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Applicant: Medical Research Council
Title: Crystal Structure of Antibiotics Bound to the 30S Ribosome and Its Use

UK Priority Application No 0110885.1

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Dated 16 August 2001

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1/77

The Patent Office

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2. Patent application number *(The Patent Office will fill in this part)* — **0110885.1**

3. Full name, address and postcode of the or of each applicant *(underline all surnames)*
Patents ADP number *(if you know it)*

MEDICAL RESEARCH COUNCIL
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LONDON W1N 4AL
UNITED KINGDOM

04MAY01 E626866-1 D00060
P01/7700 0.00-0110885.1

If the applicant is a corporate body, give the country/state of its incorporation — GB

4. Title of the invention — CRYSTAL STRUCTURE (VI)

5. Name of your agent *(if you have one)* — MEWBURN ELLIS

"Address for service" in the United Kingdom to which all correspondence should be sent *(including the postcode)*

YORK HOUSE
23 KINGSWAY
LONDON
WC2B 6HP

Patents ADP number *(if you know it)* — 109006

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country	Priority application number *(if you know it)*	Date of filing *(day / month / year)*
GB	0017376.5	14/07/00
GB	0022943.5	19/09/00
GB	0029872.9	07/12/00
GB	0029870.3	07/12/00
GB	0029871.1	07/12/00

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application	Date of filing *(day / month /year)*

8. Is a statement of inventorship and of right to grant of a patent required in support of this request?
(Answer "Yes" if:
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Description	2069 ✓
Claim(s)	2 ✓
Abstract	0
Drawing(s)	2 + 2 ✓

10. If you are also filing any of the following, state how many against each item

Priority documents	0
Translations of priority documents	0
Statement of inventorship and right to grant of a patent *(Patents Form 7/77)*	0
Request for preliminary examination and search *(Patents Form 9/77)*	0
Request for substantive examination *(Patents Form 10/77)*	0
Any other documents *(Please specify)*	0

11. I/We request the grant of a patent on the basis of this application.

Signature [signature] Date 3 May 2001

12. Name and daytime telephone number of person to contact in the United Kingdom: ADRIAN H. BRASNETT 020 7240 4405

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Notes

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CLAIMS

1. A crystal of the *Thermus thermophilus* 30S subunit bound to a tRNA molecule and a cognate mRNA, having a tetragonal space group $P4_12_12$ with unit cell dimensions of a = 401.6, b = 401.6 Å and c = 176.1 Å.

2. A crystal of the *Thermus thermophilus* 30S subunit bound to a tRNA molecule, a cognate mRNA and paromomycin having a tetragonal space group $P4_12_12$ with unit cell dimensions of a = a = 400.8 Å, b = 400.8 Å and c = 175.9 Å.

3. A crystal of the *Thermus thermophilus* 30S subunit bound to paromomycin having a tetragonal space group $P4_12_12$ with unit cell dimensions of a = 401.2 Å, b = 402 Å and c = 176.4 Å.

4. A crystal of 30S bound to a tRNA molecule and a cognate mRNA having the three dimensional atomic coordinates of Table N, where N is selected from 1, 2 or 3.

5. A method for identifying a potential inhibitor of the 30S comprising the steps of:

employing a three-dimensional structure of 30S, or at least one sub-domain thereof, to characterize at least one site bound by tRNA or mRNA, the three-dimensional structure being defined by atomic coordinate data according to Table N; and

identifying the potential inhibitor by designing or selecting a compound for interaction with the site.

6. A computer readable media with either (a) atomic coordinate data according to Table N recorded thereon, said data defining the three-dimensional structure of 30S or at least one sub-domain thereof, or (b) structure factor data for 30S recorded thereon, the structure factor data being derivable

from the atomic coordinate data of Table N.

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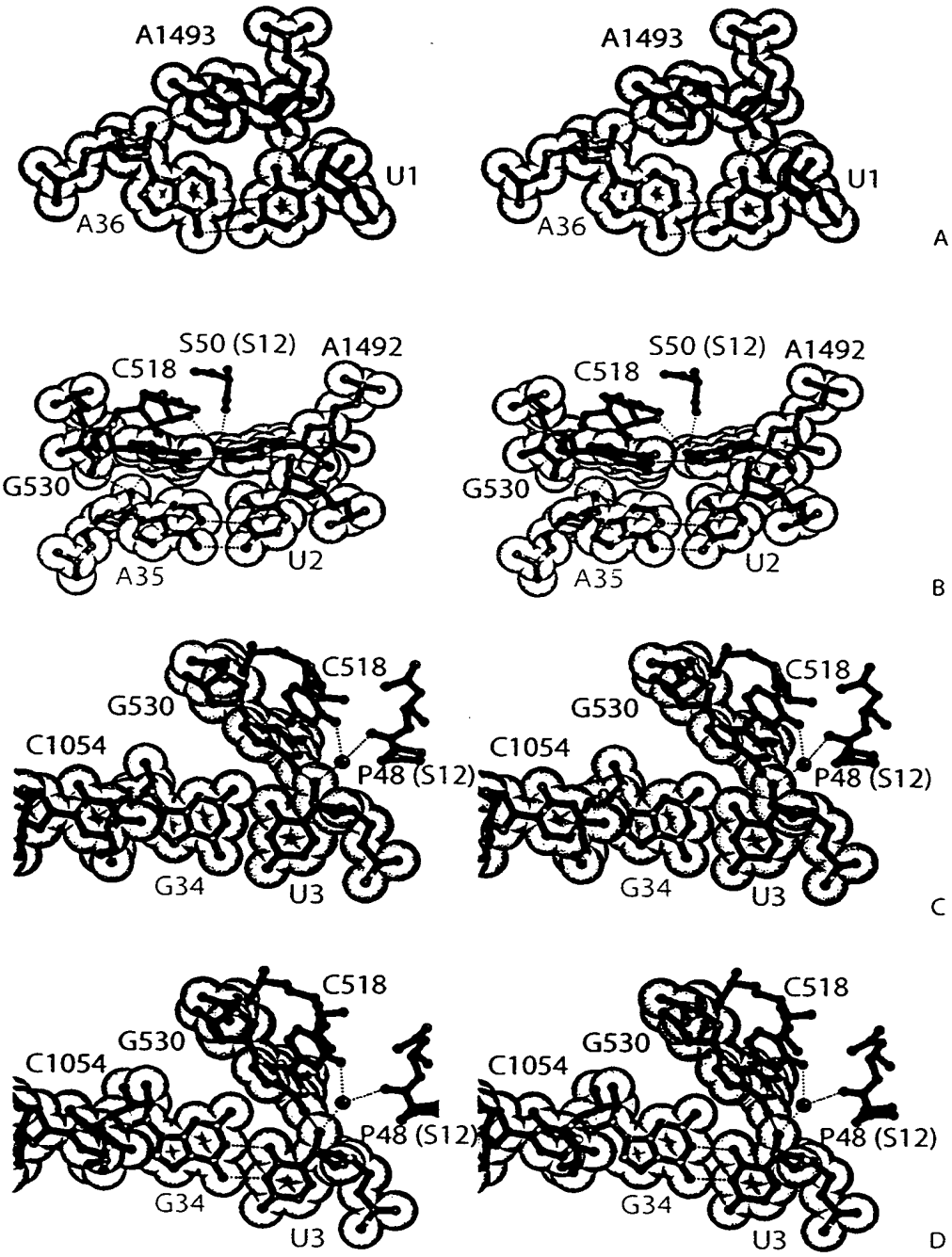

A1493
U1
A36
A1493
U1
A36
A
S50 (S12)
A1492
C518
G530
A35
U2
S50 (S12)
A1492
C518
G530
A35
U2
B
C518
G530
C1054
P48 (S12)
G34
U3
C518
G530
C1054
P48 (S12)
G34
U3
C
C518
G530
C1054
P48 (S12)
G34
U3
C518
G530
C1054
P48 (S12)
G34
U3
D

FIGURE 1

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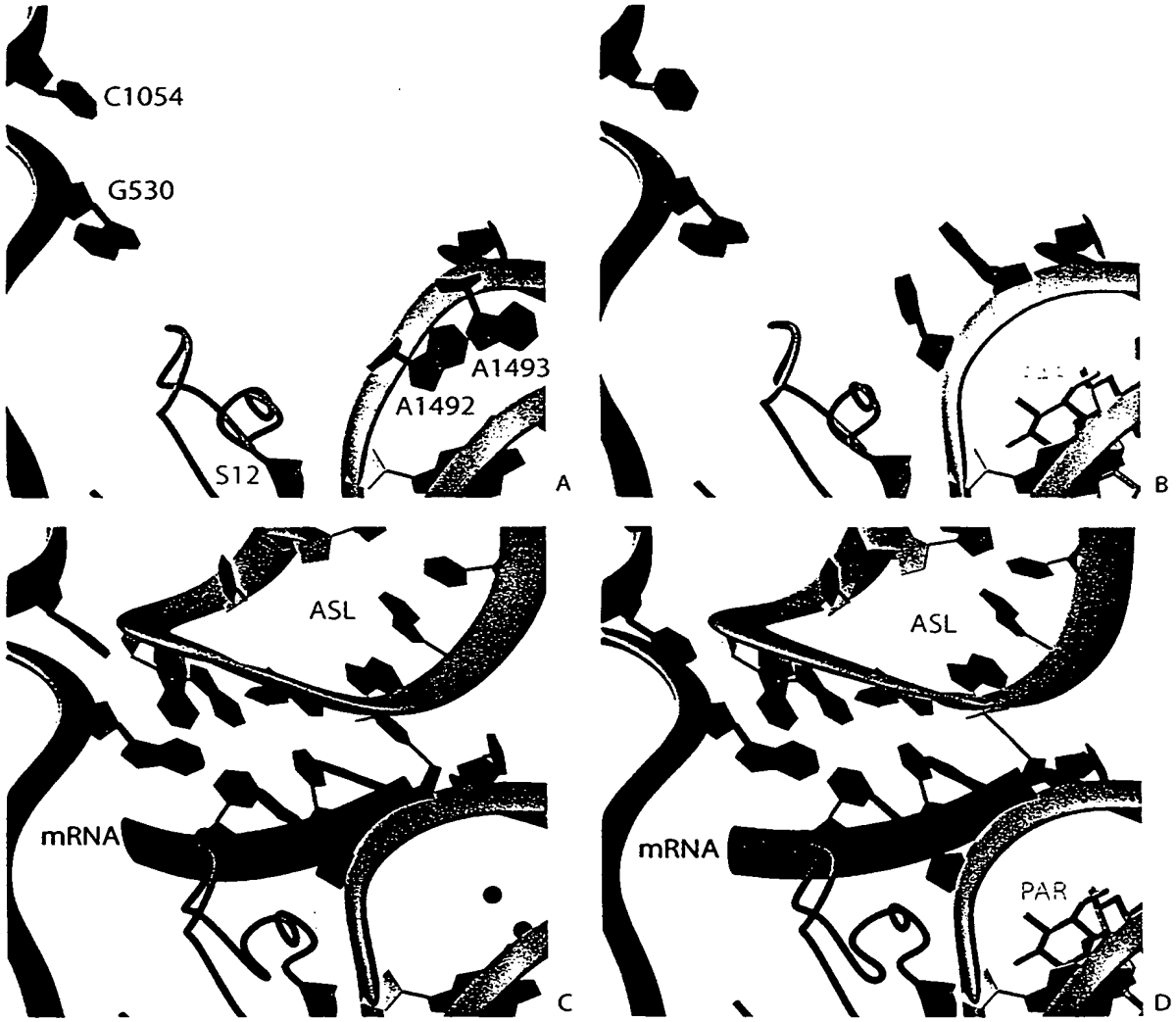


FIGURE 2

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Table 1 - 30S with U6 hexanucleotide and tRNA

```
CRYST1  401.574  401.574  176.110  90.00  90.00  90.00 P 41 21 2      1
ORIGX1      1.000000  0.000000  0.000000        0.00000
ORIGX2      0.000000  1.000000  0.000000        0.00000
ORIGX3      0.000000  0.000000  1.000000        0.00000
SCALE1      0.002490  0.000000  0.000000        0.00000
SCALE2      0.000000  0.002490  0.000000        0.00000
SCALE3      0.000000  0.000000  0.005678        0.00000
ATOM      1  O5* U   A   5     133.479 111.123   1.649  1.00 48.99       A16S
ATOM      2  C5* U   A   5     133.562 110.306   2.850  1.00 48.99       A16S
ATOM      3  C4* U   A   5     134.872 110.374   3.625  1.00 48.99       A16S
ATOM      4  O4* U   A   5     135.011 111.678   4.263  1.00 48.99       A16S
ATOM      5  C1* U   A   5     135.282 111.512   5.641  1.00 48.99       A16S
ATOM      6  N1  U   A   5     134.647 112.595   6.411  1.00106.22       A16S
ATOM      7  C6  U   A   5     133.670 113.400   5.867  1.00106.22       A16S
ATOM      8  C2  U   A   5     135.070 112.783   7.722  1.00106.22       A16S
ATOM      9  O2  U   A   5     135.933 112.100   8.250  1.00106.22       A16S
ATOM     10  N3  U   A   5     134.445 113.802   8.395  1.00106.22       A16S
ATOM     11  C4  U   A   5     133.463 114.639   7.911  1.00106.22       A16S
ATOM     12  O4  U   A   5     132.979 115.499   8.653  1.00106.22       A16S
ATOM     13  C5  U   A   5     133.082 114.388   6.552  1.00106.22       A16S
ATOM     14  C2* U   A   5     134.760 110.130   6.004  1.00 48.99       A16S
ATOM     15  O2* U   A   5     135.452 109.687   7.148  1.00 48.99       A16S
ATOM     16  C3* U   A   5     135.072 109.339   4.735  1.00 48.99       A16S
ATOM     17  O3* U   A   5     136.457 108.991   4.758  1.00 48.99       A16S
ATOM     18  P   G   A   6     136.933 107.483   5.113  1.00 46.50       A16S
ATOM     19  O1P G   A   6     136.045 106.557   4.331  1.00 44.26       A16S
ATOM     20  O2P G   A   6     137.074 107.305   6.590  1.00 44.26       A16S
ATOM     21  O5* G   A   6     138.425 107.454   4.544  1.00 46.50       A16S
ATOM     22  C5* G   A   6     138.680 107.125   3.161  1.00 46.50       A16S
ATOM     23  C4* G   A   6     139.583 108.154   2.498  1.00 46.50       A16S
ATOM     24  O4* G   A   6     138.843 109.244   1.900  1.00 46.50       A16S
ATOM     25  C1* G   A   6     139.728 110.321   1.690  1.00 46.50       A16S
ATOM     26  N9  G   A   6     139.073 111.571   2.061  1.00 44.26       A16S
ATOM     27  C4  G   A   6     139.009 112.146   3.307  1.00 44.26       A16S
ATOM     28  N3  G   A   6     139.537 111.647   4.436  1.00 44.26       A16S
ATOM     29  C2  G   A   6     139.338 112.446   5.460  1.00 44.26       A16S
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ATOM     31  N1  G   A   6     138.664 113.627   5.381  1.00 44.26       A16S
ATOM     32  C6  G   A   6     138.109 114.149   4.226  1.00 44.26       A16S
ATOM     33  O6  G   A   6     137.520 115.225   4.259  1.00 44.26       A16S
ATOM     34  C5  G   A   6     138.321 113.321   3.131  1.00 44.26       A16S
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ATOM     39  C3* G   A   6     140.657 108.842   3.314  1.00 46.50       A16S
ATOM     40  O3* G   A   6     141.734 107.942   3.510  1.00 46.50       A16S
ATOM     41  P   G   A   7     143.125 108.466   4.118  1.00 39.41       A16S
ATOM     42  O1P G   A   7     142.903 109.764   4.799  1.00 38.63       A16S
ATOM     43  O2P G   A   7     143.772 107.352   4.869  1.00 38.63       A16S
ATOM     44  O5* G   A   7     143.976 108.772   2.815  1.00 39.41       A16S
ATOM     45  C5* G   A   7     144.867 107.796   2.269  1.00 39.41       A16S
ATOM     46  C4* G   A   7     145.829 108.469   1.335  1.00 39.41       A16S
ATOM     47  O4* G   A   7     145.186 108.803   0.099  1.00 39.41       A16S
ATOM     48  C1* G   A   7     145.885 109.864  -0.479  1.00 39.41       A16S
ATOM     49  N9  G   A   7     144.979 110.497  -1.419  1.00 38.63       A16S
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ATOM     51  N3  G   A   7     146.341 110.432  -3.406  1.00 38.63       A16S
ATOM     52  C2  G   A   7     146.260 110.764  -4.677  1.00 38.63       A16S
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ATOM     54  N1  G   A   7     145.171 111.366  -5.235  1.00 38.63       A16S
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ATOM     56  O6  G   A   7     143.073 112.218  -5.159  1.00 38.63       A16S
ATOM     57  C5  G   A   7     144.073 111.318  -3.215  1.00 38.63       A16S
ATOM     58  N7  G   A   7     143.132 111.447  -2.210  1.00 38.63       A16S
ATOM     59  C8  G   A   7     143.718 110.953  -1.160  1.00 38.63       A16S
ATOM     60  C2* G   A   7     146.294 110.766   0.683  1.00 39.41       A16S
ATOM     61  O2* G   A   7     147.513 111.413   0.416  1.00 39.41       A16S
ATOM     62  C3* G   A   7     146.353 109.790   1.860  1.00 39.41       A16S
ATOM     63  O3* G   A   7     147.531 109.654   2.675  1.00 39.41       A16S
ATOM     64  P   A   A   8     148.896 109.031   2.079  1.00 26.83       A16S
ATOM     65  O1P A   A   8     148.883 109.118   0.593  1.00 54.75       A16S
ATOM     66  O2P A   A   8     149.088 107.705   2.723  1.00 54.75       A16S
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ATOM     68  C5* A   A   8     150.146 111.342   2.129  1.00 26.83       A16S
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ATOM     69  C4* A   A   8     151.548 111.818   2.358  1.00 26.83      A16S
ATOM     70  O4* A   A   8     151.670 112.282   3.718  1.00 26.83      A16S
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ATOM     86  P   G   A   9     154.031 111.276   0.018  1.00 23.57      A16S
ATOM     87  O1P G   A   9     153.597 112.592  -0.562  1.00 25.52      A16S
ATOM     88  O2P G   A   9     153.434 110.020  -0.498  1.00 25.52      A16S
ATOM     89  O5* G   A   9     155.609 111.126  -0.123  1.00 23.57      A16S
ATOM     90  C5* G   A   9     156.493 112.056   0.479  1.00 23.57      A16S
ATOM     91  C4* G   A   9     157.101 111.453   1.713  1.00 23.57      A16S
ATOM     92  O4* G   A   9     156.392 110.240   2.062  1.00 23.57      A16S
ATOM     93  C1* G   A   9     157.294 109.310   2.652  1.00 23.57      A16S
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ATOM     95  C4  G   A   9     158.089 106.981   2.086  1.00 25.52      A16S
ATOM     96  N3  G   A   9     158.831 106.767   3.182  1.00 25.52      A16S
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ATOM    114  C4* A   A  10     162.762 110.394   3.670  1.00 27.94      A16S
ATOM    115  O4* A   A  10     161.890 109.244   3.604  1.00 27.94      A16S
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ATOM    132  O1P G   A  11     167.365 111.761   3.286  1.00 38.70      A16S
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ATOM    134  O5* G   A  11     167.155 109.353   2.623  1.00 31.75      A16S
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ATOM    136  C4* G   A  11     168.327 107.496   3.641  1.00 31.75      A16S
ATOM    137  O4* G   A  11     167.334 106.479   3.347  1.00 31.75      A16S
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ATOM    142  C2  G   A  11     166.960 102.711  -0.746  1.00 38.70      A16S
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ATOM    145  C6  G   A  11     165.609 104.462  -1.803  1.00 38.70      A16S
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ATOM    146  O6  G   A  11     164.891 104.790  -2.767  1.00 38.70      A16S
ATOM    147  C5  G   A  11     166.007 105.242  -0.674  1.00 38.70      A16S
ATOM    148  N7  G   A  11     165.689 106.548  -0.326  1.00 38.70      A16S
ATOM    149  C8  G   A  11     166.331 106.746   0.794  1.00 38.70      A16S
ATOM    150  C2* G   A  11     169.320 105.937   2.181  1.00 31.75      A16S
ATOM    151  O2* G   A  11     170.165 105.267   3.101  1.00 31.75      A16S
ATOM    152  C3* G   A  11     169.295 107.425   2.481  1.00 31.75      A16S
ATOM    153  O3* G   A  11     170.573 107.925   2.815  1.00 31.75      A16S
ATOM    154  P   U   A  12     171.399 108.742   1.711  1.00 38.18      A16S
ATOM    155  O1P U   A  12     172.625 109.228   2.352  1.00 43.49      A16S
ATOM    156  O2P U   A  12     170.504 109.699   1.014  1.00 43.49      A16S
ATOM    157  O5* U   A  12     171.805 107.628   0.661  1.00 38.18      A16S
ATOM    158  C5* U   A  12     172.531 106.465   1.084  1.00 38.18      A16S
ATOM    159  C4* U   A  12     172.584 105.434  -0.026  1.00 38.18      A16S
ATOM    160  O4* U   A  12     171.304 104.756  -0.183  1.00 38.18      A16S
ATOM    161  C1* U   A  12     171.120 104.407  -1.543  1.00 38.18      A16S
ATOM    162  N1  U   A  12     169.923 105.091  -2.060  1.00 43.49      A16S
ATOM    163  C6  U   A  12     169.647 106.392  -1.737  1.00 43.49      A16S
ATOM    164  C2  U   A  12     169.098 104.387  -2.917  1.00 43.49      A16S
ATOM    165  O2  U   A  12     169.280 103.214  -3.201  1.00 43.49      A16S
ATOM    166  N3  U   A  12     168.049 105.105  -3.430  1.00 43.49      A16S
ATOM    167  C4  U   A  12     167.736 106.419  -3.173  1.00 43.49      A16S
ATOM    168  O4  U   A  12     166.755 106.941  -3.733  1.00 43.49      A16S
ATOM    169  C5  U   A  12     168.617 107.061  -2.250  1.00 43.49      A16S
ATOM    170  C2* U   A  12     172.375 104.844  -2.301  1.00 38.18      A16S
ATOM    171  O2* U   A  12     173.278 103.761  -2.383  1.00 38.18      A16S
ATOM    172  C3* U   A  12     172.905 105.957  -1.411  1.00 38.18      A16S
ATOM    173  O3* U   A  12     174.285 106.184  -1.593  1.00 38.18      A16S
ATOM    174  P   U   A  13     174.761 107.384  -2.537  1.00 31.80      A16S
ATOM    175  O1P U   A  13     175.922 108.035  -1.879  1.00 42.06      A16S
ATOM    176  O2P U   A  13     173.584 108.195  -2.903  1.00 42.06      A16S
ATOM    177  O5* U   A  13     175.285 106.650  -3.848  1.00 31.80      A16S
ATOM    178  C5* U   A  13     174.427 106.445  -4.990  1.00 31.80      A16S
ATOM    179  C4* U   A  13     175.237 105.986  -6.183  1.00 31.80      A16S
ATOM    180  O4* U   A  13     174.344 105.464  -7.201  1.00 31.80      A16S
ATOM    181  C1* U   A  13     174.620 106.082  -8.433  1.00 31.80      A16S
ATOM    182  N1  U   A  13     173.375 106.151  -9.208  1.00 42.06      A16S
ATOM    183  C6  U   A  13     172.564 107.241  -9.161  1.00 42.06      A16S
ATOM    184  C2  U   A  13     173.043 105.058  -9.989  1.00 42.06      A16S
ATOM    185  O2  U   A  13     173.741 104.062 -10.075  1.00 42.06      A16S
ATOM    186  N3  U   A  13     171.859 105.167 -10.669  1.00 42.06      A16S
ATOM    187  C4  U   A  13     170.997 106.230 -10.653  1.00 42.06      A16S
ATOM    188  O4  U   A  13     169.955 106.177 -11.300  1.00 42.06      A16S
ATOM    189  C5  U   A  13     171.417 107.317  -9.837  1.00 42.06      A16S
ATOM    190  C2* U   A  13     175.282 107.412  -8.095  1.00 31.80      A16S
ATOM    191  O2* U   A  13     176.053 107.834  -9.198  1.00 31.80      A16S
ATOM    192  C3* U   A  13     176.109 107.040  -6.863  1.00 31.80      A16S
ATOM    193  O3* U   A  13     177.351 106.440  -7.270  1.00 31.80      A16S
ATOM    194  P   U   A  14     178.742 106.877  -6.568  1.00 22.55      A16S
ATOM    195  O1P U   A  14     179.813 106.143  -7.283  1.00 67.58      A16S
ATOM    196  O2P U   A  14     178.620 106.734  -5.086  1.00 67.58      A16S
ATOM    197  O5* U   A  14     178.906 108.417  -6.931  1.00 22.55      A16S
ATOM    198  C5* U   A  14     179.131 108.815  -8.276  1.00 22.55      A16S
ATOM    199  C4* U   A  14     179.272 110.312  -8.372  1.00 22.55      A16S
ATOM    200  O4* U   A  14     177.988 110.965  -8.204  1.00 22.55      A16S
ATOM    201  C1* U   A  14     178.182 112.244  -7.620  1.00 22.55      A16S
ATOM    202  N1  U   A  14     177.456 112.293  -6.337  1.00 67.58      A16S
ATOM    203  C6  U   A  14     177.296 111.167  -5.553  1.00 67.58      A16S
ATOM    204  C2  U   A  14     176.939 113.507  -5.935  1.00 67.58      A16S
ATOM    205  O2  U   A  14     177.067 114.525  -6.584  1.00 67.58      A16S
ATOM    206  N3  U   A  14     176.272 113.487  -4.737  1.00 67.58      A16S
ATOM    207  C4  U   A  14     176.078 112.399  -3.906  1.00 67.58      A16S
ATOM    208  O4  U   A  14     175.458 112.543  -2.844  1.00 67.58      A16S
ATOM    209  C5  U   A  14     176.647 111.181  -4.386  1.00 67.58      A16S
ATOM    210  C2* U   A  14     179.692 112.442  -7.444  1.00 22.55      A16S
ATOM    211  O2* U   A  14     180.257 113.099  -8.568  1.00 22.55      A16S
ATOM    212  C3* U   A  14     180.188 111.007  -7.380  1.00 22.55      A16S
ATOM    213  O3* U   A  14     181.546 110.965  -7.763  1.00 22.55      A16S
ATOM    214  P   G   A  15     182.678 110.826  -6.640  1.00 43.60      A16S
ATOM    215  O1P G   A  15     183.960 110.629  -7.350  1.00 36.88      A16S
ATOM    216  O2P G   A  15     182.221 109.800  -5.654  1.00 36.88      A16S
ATOM    217  O5* G   A  15     182.751 112.264  -5.957  1.00 43.60      A16S
ATOM    218  C5* G   A  15     183.515 112.463  -4.748  1.00 43.60      A16S
ATOM    219  C4* G   A  15     183.474 113.911  -4.330  1.00 43.60      A16S
ATOM    220  O4* G   A  15     184.295 114.702  -5.219  1.00 43.60      A16S
ATOM    221  C1* G   A  15     183.659 115.938  -5.493  1.00 43.60      A16S
ATOM    222  N9  G   A  15     183.365 115.957  -6.923  1.00 36.88      A16S
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ATOM    223  C4  G   A  15     182.857 116.995  -7.669  1.00 36.88      A16S
ATOM    224  N3  G   A  15     182.539 118.217  -7.216  1.00 36.88      A16S
ATOM    225  C2  G   A  15     182.037 118.976  -8.175  1.00 36.88      A16S
ATOM    226  N2  G   A  15     181.634 120.231  -7.912  1.00 36.88      A16S
ATOM    227  N1  G   A  15     181.879 118.567  -9.463  1.00 36.88      A16S
ATOM    228  C6  G   A  15     182.202 117.314  -9.947  1.00 36.88      A16S
ATOM    229  O6  G   A  15     182.007 117.042 -11.130  1.00 36.88      A16S
ATOM    230  C5  G   A  15     182.728 116.495  -8.946  1.00 36.88      A16S
ATOM    231  N7  G   A  15     183.161 115.180  -9.011  1.00 36.88      A16S
ATOM    232  C8  G   A  15     183.533 114.904  -7.794  1.00 36.88      A16S
ATOM    233  C2* G   A  15     182.414 116.016  -4.603  1.00 43.60      A16S
ATOM    234  O2* G   A  15     182.765 116.657  -3.397  1.00 43.60      A16S
ATOM    235  C3* G   A  15     182.096 114.544  -4.377  1.00 43.60      A16S
ATOM    236  O3* G   A  15     181.409 114.303  -3.151  1.00 43.60      A16S
ATOM    237  P   A   A  16     179.906 113.719  -3.172  1.00 31.12      A16S
ATOM    238  O1P A   A  16     179.585 113.443  -1.746  1.00 34.17      A16S
ATOM    239  O2P A   A  16     179.774 112.617  -4.164  1.00 34.17      A16S
ATOM    240  O5* A   A  16     179.034 114.975  -3.629  1.00 31.12      A16S
ATOM    241  C5* A   A  16     178.810 116.042  -2.702  1.00 31.12      A16S
ATOM    242  C4* A   A  16     178.503 117.326  -3.412  1.00 31.12      A16S
ATOM    243  O4* A   A  16     179.511 117.582  -4.417  1.00 31.12      A16S
ATOM    244  C1* A   A  16     178.936 118.299  -5.495  1.00 31.12      A16S
ATOM    245  N9  A   A  16     179.057 117.511  -6.719  1.00 34.17      A16S
ATOM    246  C4  A   A  16     178.625 117.941  -7.947  1.00 34.17      A16S
ATOM    247  N3  A   A  16     178.063 119.123  -8.231  1.00 34.17      A16S
ATOM    248  C2  A   A  16     177.755 119.189  -9.514  1.00 34.17      A16S
ATOM    249  N1  A   A  16     177.940 118.277 -10.474  1.00 34.17      A16S
ATOM    250  C6  A   A  16     178.515 117.107 -10.155  1.00 34.17      A16S
ATOM    251  N6  A   A  16     178.712 116.221 -11.123  1.00 34.17      A16S
ATOM    252  C5  A   A  16     178.874 116.906  -8.820  1.00 34.17      A16S
ATOM    253  N7  A   A  16     179.457 115.838  -8.158  1.00 34.17      A16S
ATOM    254  C8  A   A  16     179.554 116.250  -6.917  1.00 34.17      A16S
ATOM    255  C2* A   A  16     177.459 118.504  -5.175  1.00 31.12      A16S
ATOM    256  O2* A   A  16     177.289 119.810  -4.681  1.00 31.12      A16S
ATOM    257  C3* A   A  16     177.199 117.382  -4.175  1.00 31.12      A16S
ATOM    258  O3* A   A  16     176.102 117.640  -3.319  1.00 31.12      A16S
ATOM    259  P   U   A  17     174.635 117.137  -3.735  1.00 32.30      A16S
ATOM    260  O1P U   A  17     173.680 117.863  -2.865  1.00 37.68      A16S
ATOM    261  O2P U   A  17     174.599 115.648  -3.761  1.00 37.68      A16S
ATOM    262  O5* U   A  17     174.463 117.710  -5.212  1.00 32.30      A16S
ATOM    263  C5* U   A  17     174.402 119.117  -5.422  1.00 32.30      A16S
ATOM    264  C4* U   A  17     173.729 119.432  -6.726  1.00 32.30      A16S
ATOM    265  O4* U   A  17     174.649 119.291  -7.829  1.00 32.30      A16S
ATOM    266  C1* U   A  17     173.937 118.898  -8.990  1.00 32.30      A16S
ATOM    267  N1  U   A  17     174.433 117.584  -9.424  1.00 37.68      A16S
ATOM    268  C6  U   A  17     174.957 116.691  -8.527  1.00 37.68      A16S
ATOM    269  C2  U   A  17     174.346 117.272 -10.761  1.00 37.68      A16S
ATOM    270  O2  U   A  17     173.864 118.017 -11.580  1.00 37.68      A16S
ATOM    271  N3  U   A  17     174.829 116.040 -11.099  1.00 37.68      A16S
ATOM    272  C4  U   A  17     175.352 115.099 -10.249  1.00 37.68      A16S
ATOM    273  O4  U   A  17     175.648 113.989 -10.685  1.00 37.68      A16S
ATOM    274  C5  U   A  17     175.402 115.494  -8.884  1.00 37.68      A16S
ATOM    275  C2* U   A  17     172.458 118.845  -8.619  1.00 32.30      A16S
ATOM    276  O2* U   A  17     171.893 120.106  -8.905  1.00 32.30      A16S
ATOM    277  C3* U   A  17     172.531 118.596  -7.122  1.00 32.30      A16S
ATOM    278  O3* U   A  17     171.362 119.032  -6.473  1.00 32.30      A16S
ATOM    279  P   C   A  18     170.137 118.019  -6.300  1.00 23.17      A16S
ATOM    280  O1P C   A  18     169.212 118.693  -5.377  1.00 25.63      A16S
ATOM    281  O2P C   A  18     170.639 116.659  -5.964  1.00 25.63      A16S
ATOM    282  O5* C   A  18     169.460 118.020  -7.733  1.00 23.17      A16S
ATOM    283  C5* C   A  18     168.730 119.157  -8.164  1.00 23.17      A16S
ATOM    284  C4* C   A  18     168.384 119.028  -9.616  1.00 23.17      A16S
ATOM    285  O4* C   A  18     169.612 118.988 -10.383  1.00 23.17      A16S
ATOM    286  C1* C   A  18     169.451 118.126 -11.492  1.00 23.17      A16S
ATOM    287  N1  C   A  18     170.309 116.958 -11.281  1.00 25.63      A16S
ATOM    288  C6  C   A  18     170.703 116.614 -10.027  1.00 25.63      A16S
ATOM    289  C2  C   A  18     170.680 116.181 -12.372  1.00 25.63      A16S
ATOM    290  O2  C   A  18     170.342 116.546 -13.513  1.00 25.63      A16S
ATOM    291  N3  C   A  18     171.400 115.055 -12.164  1.00 25.63      A16S
ATOM    292  C4  C   A  18     171.758 114.719 -10.927  1.00 25.63      A16S
ATOM    293  N4  C   A  18     172.460 113.607 -10.750  1.00 25.63      A16S
ATOM    294  C5  C   A  18     171.416 115.512  -9.808  1.00 25.63      A16S
ATOM    295  C2* C   A  18     167.996 117.655 -11.494  1.00 23.17      A16S
ATOM    296  O2* C   A  18     167.174 118.475 -12.309  1.00 23.17      A16S
ATOM    297  C3* C   A  18     167.653 117.758 -10.020  1.00 23.17      A16S
ATOM    298  O3* C   A  18     166.254 117.792  -9.809  1.00 23.17      A16S
ATOM    299  P   C   A  19     165.494 116.449  -9.360  1.00 27.56      A16S
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ATOM    300  O1P C   A  19     164.088 116.864  -9.097  1.00 18.72      A16S
ATOM    301  O2P C   A  19     166.276 115.751  -8.299  1.00 18.72      A16S
ATOM    302  O5* C   A  19     165.476 115.565 -10.676  1.00 27.56      A16S
ATOM    303  C5* C   A  19     164.815 116.063 -11.836  1.00 27.56      A16S
ATOM    304  C4* C   A  19     165.057 115.170 -13.020  1.00 27.56      A16S
ATOM    305  O4* C   A  19     166.464 115.178 -13.363  1.00 27.56      A16S
ATOM    306  C1* C   A  19     166.818 113.923 -13.911  1.00 27.56      A16S
ATOM    307  N1   C   A  19     167.810 113.277 -13.030  1.00 18.72      A16S
ATOM    308  C6   C   A  19     167.984 113.682 -11.737  1.00 18.72      A16S
ATOM    309  C2   C   A  19     168.556 112.229 -13.533  1.00 18.72      A16S
ATOM    310  O2   C   A  19     168.416 111.921 -14.707  1.00 18.72      A16S
ATOM    311  N3   C   A  19     169.419 111.576 -12.732  1.00 18.72      A16S
ATOM    312  C4   C   A  19     169.553 111.946 -11.464  1.00 18.72      A16S
ATOM    313  N4   C   A  19     170.365 111.234 -10.693  1.00 18.72      A16S
ATOM    314  C5   C   A  19     168.842 113.051 -10.926  1.00 18.72      A16S
ATOM    315  C2* C   A  19     165.535 113.100 -14.009  1.00 27.56      A16S
ATOM    316  O2* C   A  19     164.900 113.379 -15.249  1.00 27.56      A16S
ATOM    317  C3* C   A  19     164.707 113.697 -12.889  1.00 27.56      A16S
ATOM    318  O3* C   A  19     163.338 113.443 -13.129  1.00 27.56      A16S
ATOM    319  P    U   A  20     162.710 112.035 -12.685  1.00 22.24      A16S
ATOM    320  O1P U   A  20     161.300 112.029 -13.125  1.00 25.23      A16S
ATOM    321  O2P U   A  20     163.050 111.753 -11.263  1.00 25.23      A16S
ATOM    322  O5* U   A  20     163.486 110.962 -13.562  1.00 22.24      A16S
ATOM    323  C5* U   A  20     163.228 110.815 -14.965  1.00 22.24      A16S
ATOM    324  C4* U   A  20     164.068 109.692 -15.521  1.00 22.24      A16S
ATOM    325  O4* U   A  20     165.454 109.983 -15.249  1.00 22.24      A16S
ATOM    326  C1* U   A  20     166.138 108.789 -14.929  1.00 22.24      A16S
ATOM    327  N1   U   A  20     166.705 108.906 -13.579  1.00 25.23      A16S
ATOM    328  C6   U   A  20     166.415 109.969 -12.768  1.00 25.23      A16S
ATOM    329  C2   U   A  20     167.542 107.903 -13.155  1.00 25.23      A16S
ATOM    330  O2   U   A  20     167.828 106.960 -13.861  1.00 25.23      A16S
ATOM    331  N3   U   A  20     168.034 108.049 -11.882  1.00 25.23      A16S
ATOM    332  C4   U   A  20     167.783 109.092 -11.013  1.00 25.23      A16S
ATOM    333  O4   U   A  20     168.318 109.114  -9.897  1.00 25.23      A16S
ATOM    334  C5   U   A  20     166.911 110.094 -11.536  1.00 25.23      A16S
ATOM    335  C2* U   A  20     165.155 107.634 -15.058  1.00 22.24      A16S
ATOM    336  O2* U   A  20     165.329 107.090 -16.342  1.00 22.24      A16S
ATOM    337  C3* U   A  20     163.822 108.338 -14.888  1.00 22.24      A16S
ATOM    338  O3* U   A  20     162.805 107.649 -15.586  1.00 22.24      A16S
ATOM    339  P    G   A  21     161.785 106.717 -14.778  1.00 17.03      A16S
ATOM    340  O1P G   A  21     160.931 106.014 -15.771  1.00 42.13      A16S
ATOM    341  O2P G   A  21     161.150 107.557 -13.734  1.00 42.13      A16S
ATOM    342  O5* G   A  21     162.727 105.638 -14.081  1.00 17.03      A16S
ATOM    343  C5* G   A  21     163.343 104.630 -14.870  1.00 17.03      A16S
ATOM    344  C4* G   A  21     164.357 103.852 -14.072  1.00 17.03      A16S
ATOM    345  O4* G   A  21     165.474 104.689 -13.706  1.00 17.03      A16S
ATOM    346  C1* G   A  21     166.063 104.194 -12.524  1.00 17.03      A16S
ATOM    347  N9   G   A  21     166.022 105.253 -11.525  1.00 42.13      A16S
ATOM    348  C4   G   A  21     166.743 105.310 -10.364  1.00 42.13      A16S
ATOM    349  N3   G   A  21     167.645 104.406  -9.956  1.00 42.13      A16S
ATOM    350  C2   G   A  21     168.167 104.725  -8.796  1.00 42.13      A16S
ATOM    351  N2   G   A  21     169.103 103.945  -8.262  1.00 42.13      A16S
ATOM    352  N1   G   A  21     167.817 105.834  -8.072  1.00 42.13      A16S
ATOM    353  C6   G   A  21     166.879 106.781  -8.468  1.00 42.13      A16S
ATOM    354  O6   G   A  21     166.617 107.756  -7.727  1.00 42.13      A16S
ATOM    355  C5   G   A  21     166.331 106.457  -9.733  1.00 42.13      A16S
ATOM    356  N7   G   A  21     165.391 107.125 -10.497  1.00 42.13      A16S
ATOM    357  C8   G   A  21     165.240 106.375 -11.550  1.00 42.13      A16S
ATOM    358  C2* G   A  21     165.268 102.956 -12.096  1.00 17.03      A16S
ATOM    359  O2* G   A  21     165.890 101.782 -12.593  1.00 17.03      A16S
ATOM    360  C3* G   A  21     163.931 103.195 -12.776  1.00 17.03      A16S
ATOM    361  O3* G   A  21     163.310 101.957 -13.025  1.00 17.03      A16S
ATOM    362  P    G   A  22     162.094 101.477 -12.102  1.00 25.83      A16S
ATOM    363  O1P G   A  22     161.218 100.675 -13.016  1.00 33.81      A16S
ATOM    364  O2P G   A  22     161.525 102.605 -11.328  1.00 33.81      A16S
ATOM    365  O5* G   A  22     162.751 100.481 -11.062  1.00 25.83      A16S
ATOM    366  C5* G   A  22     163.242  99.239 -11.526  1.00 25.83      A16S
ATOM    367  C4* G   A  22     164.531  98.889 -10.844  1.00 25.83      A16S
ATOM    368  O4* G   A  22     165.468 100.002 -10.839  1.00 25.83      A16S
ATOM    369  C1* G   A  22     166.313  99.886  -9.709  1.00 25.83      A16S
ATOM    370  N9   G   A  22     166.163 101.074  -8.885  1.00 33.81      A16S
ATOM    371  C4   G   A  22     167.013 101.469  -7.897  1.00 33.81      A16S
ATOM    372  N3   G   A  22     168.151 100.851  -7.554  1.00 33.81      A16S
ATOM    373  C2   G   A  22     168.739 101.443  -6.548  1.00 33.81      A16S
ATOM    374  N2   G   A  22     169.900 100.972  -6.090  1.00 33.81      A16S
ATOM    375  N1   G   A  22     168.241 102.547  -5.918  1.00 33.81      A16S
ATOM    376  C6   G   A  22     167.066 103.199  -6.260  1.00 33.81      A16S
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ATOM    377  O6  G   A  22     166.698 104.188  -5.623  1.00 33.81      A16S
ATOM    378  C5  G   A  22     166.439 102.583  -7.344  1.00 33.81      A16S
ATOM    379  N7  G   A  22     165.260 102.903  -7.993  1.00 33.81      A16S
ATOM    380  C8  G   A  22     165.141 101.984  -8.906  1.00 33.81      A16S
ATOM    381  C2* G   A  22     165.861  98.655  -8.923  1.00 25.83      A16S
ATOM    382  O2* G   A  22     166.672  97.579  -9.330  1.00 25.83      A16S
ATOM    383  C3* G   A  22     164.420  98.505  -9.391  1.00 25.83      A16S
ATOM    384  O3* G   A  22     163.946  97.187  -9.328  1.00 25.83      A16S
ATOM    385  P   C   A  23     163.067  96.724  -8.082  1.00 17.49      A16S
ATOM    386  O1P C   A  23     162.639  95.331  -8.398  1.00 34.65      A16S
ATOM    387  O2P C   A  23     162.051  97.744  -7.743  1.00 34.65      A16S
ATOM    388  O5* C   A  23     164.131  96.670  -6.909  1.00 17.49      A16S
ATOM    389  C5* C   A  23     165.250  95.790  -7.013  1.00 17.49      A16S
ATOM    390  C4* C   A  23     166.233  96.087  -5.940  1.00 17.49      A16S
ATOM    391  O4* C   A  23     166.802  97.386  -6.168  1.00 17.49      A16S
ATOM    392  C1* C   A  23     166.983  98.043  -4.935  1.00 17.49      A16S
ATOM    393  N1  C   A  23     166.192  99.285  -4.943  1.00 34.65      A16S
ATOM    394  C6  C   A  23     165.163  99.455  -5.816  1.00 34.65      A16S
ATOM    395  C2  C   A  23     166.515 100.291  -4.041  1.00 34.65      A16S
ATOM    396  O2  C   A  23     167.451 100.115  -3.252  1.00 34.65      A16S
ATOM    397  N3  C   A  23     165.810 101.430  -4.043  1.00 34.65      A16S
ATOM    398  C4  C   A  23     164.815 101.593  -4.903  1.00 34.65      A16S
ATOM    399  N4  C   A  23     164.155 102.760  -4.880  1.00 34.65      A16S
ATOM    400  C5  C   A  23     164.455 100.581  -5.830  1.00 34.65      A16S
ATOM    401  C2* C   A  23     166.566  97.074  -3.832  1.00 17.49      A16S
ATOM    402  O2* C   A  23     167.700  96.351  -3.401  1.00 17.49      A16S
ATOM    403  C3* C   A  23     165.603  96.182  -4.578  1.00 17.49      A16S
ATOM    404  O3* C   A  23     165.484  94.914  -4.000  1.00 17.49      A16S
ATOM    405  P   U   A  24     164.268  94.634  -3.013  1.00 36.13      A16S
ATOM    406  O1P U   A  24     164.384  93.225  -2.568  1.00 40.73      A16S
ATOM    407  O2P U   A  24     163.012  95.111  -3.652  1.00 40.73      A16S
ATOM    408  O5* U   A  24     164.603  95.578  -1.783  1.00 36.13      A16S
ATOM    409  C5* U   A  24     165.724  95.284  -0.961  1.00 36.13      A16S
ATOM    410  C4* U   A  24     165.855  96.300   0.132  1.00 36.13      A16S
ATOM    411  O4* U   A  24     166.249  97.576  -0.420  1.00 36.13      A16S
ATOM    412  C1* U   A  24     165.751  98.610   0.400  1.00 36.13      A16S
ATOM    413  N1  U   A  24     164.868  99.466  -0.398  1.00 40.73      A16S
ATOM    414  C6  U   A  24     164.454  99.095  -1.653  1.00 40.73      A16S
ATOM    415  C2  U   A  24     164.434 100.650   0.180  1.00 40.73      A16S
ATOM    416  O2  U   A  24     164.830 101.033   1.273  1.00 40.73      A16S
ATOM    417  N3  U   A  24     163.528 101.360  -0.570  1.00 40.73      A16S
ATOM    418  C4  U   A  24     163.034 101.015  -1.817  1.00 40.73      A16S
ATOM    419  O4  U   A  24     162.091 101.646  -2.291  1.00 40.73      A16S
ATOM    420  C5  U   A  24     163.579  99.810  -2.361  1.00 40.73      A16S
ATOM    421  C2* U   A  24     164.962  97.959   1.536  1.00 36.13      A16S
ATOM    422  O2* U   A  24     165.804  97.839   2.660  1.00 36.13      A16S
ATOM    423  C3* U   A  24     164.612  96.608   0.939  1.00 36.13      A16S
ATOM    424  O3* U   A  24     164.375  95.636   1.943  1.00 36.13      A16S
ATOM    425  P   C   A  25     162.880  95.419   2.502  1.00 42.19      A16S
ATOM    426  O1P C   A  25     162.846  94.123   3.230  1.00 25.43      A16S
ATOM    427  O2P C   A  25     161.897  95.659   1.426  1.00 25.43      A16S
ATOM    428  O5* C   A  25     162.719  96.592   3.555  1.00 42.19      A16S
ATOM    429  C5* C   A  25     163.654  96.729   4.605  1.00 42.19      A16S
ATOM    430  C4* C   A  25     163.401  98.001   5.340  1.00 42.19      A16S
ATOM    431  O4* C   A  25     163.648  99.125   4.464  1.00 42.19      A16S
ATOM    432  C1* C   A  25     162.770 100.184   4.795  1.00 42.19      A16S
ATOM    433  N1  C   A  25     161.994 100.558   3.597  1.00 25.43      A16S
ATOM    434  C6  C   A  25     161.680  99.634   2.647  1.00 25.43      A16S
ATOM    435  C2  C   A  25     161.582 101.882   3.452  1.00 25.43      A16S
ATOM    436  O2  C   A  25     161.879 102.704   4.336  1.00 25.43      A16S
ATOM    437  N3  C   A  25     160.874 102.233   2.363  1.00 25.43      A16S
ATOM    438  C4  C   A  25     160.571 101.319   1.445  1.00 25.43      A16S
ATOM    439  N4  C   A  25     159.859 101.700   0.392  1.00 25.43      A16S
ATOM    440  C5  C   A  25     160.979  99.971   1.568  1.00 25.43      A16S
ATOM    441  C2* C   A  25     161.901  99.718   5.963  1.00 42.19      A16S
ATOM    442  O2* C   A  25     162.499 100.191   7.154  1.00 42.19      A16S
ATOM    443  C3* C   A  25     161.978  98.202   5.811  1.00 42.19      A16S
ATOM    444  O3* C   A  25     161.743  97.487   7.011  1.00 42.19      A16S
ATOM    445  P   A   A  26     160.236  97.147   7.450  1.00 36.74      A16S
ATOM    446  O1P A   A  26     160.312  96.365   8.714  1.00 35.91      A16S
ATOM    447  O2P A   A  26     159.447  96.621   6.305  1.00 35.91      A16S
ATOM    448  O5* A   A  26     159.668  98.578   7.822  1.00 36.74      A16S
ATOM    449  C5* A   A  26     160.206  99.289   8.927  1.00 36.74      A16S
ATOM    450  C4* A   A  26     159.473 100.580   9.100  1.00 36.74      A16S
ATOM    451  O4* A   A  26     159.713 101.419   7.954  1.00 36.74      A16S
ATOM    452  C1* A   A  26     158.580 102.216   7.717  1.00 36.74      A16S
ATOM    453  N9  A   A  26     158.155 102.049   6.329  1.00 35.91      A16S
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ATOM    454  C4  A   A  26     157.656 103.058   5.552  1.00 35.91      A16S
ATOM    455  N3  A   A  26     157.517 104.341   5.898  1.00 35.91      A16S
ATOM    456  C2  A   A  26     156.968 105.025   4.917  1.00 35.91      A16S
ATOM    457  N1  A   A  26     156.569 104.607   3.725  1.00 35.91      A16S
ATOM    458  C6  A   A  26     156.716 103.307   3.414  1.00 35.91      A16S
ATOM    459  N6  A   A  26     156.286 102.885   2.223  1.00 35.91      A16S
ATOM    460  C5  A   A  26     157.298 102.478   4.363  1.00 35.91      A16S
ATOM    461  N7  A   A  26     157.596 101.125   4.366  1.00 35.91      A16S
ATOM    462  C8  A   A  26     158.113 100.922   5.549  1.00 35.91      A16S
ATOM    463  C2* A   A  26     157.501 101.829   8.730  1.00 36.74      A16S
ATOM    464  O2* A   A  26     157.549 102.768   9.774  1.00 36.74      A16S
ATOM    465  C3* A   A  26     157.966 100.453   9.184  1.00 36.74      A16S
ATOM    466  O3* A   A  26     157.597 100.183  10.530  1.00 36.74      A16S
ATOM    467  P   G   A  27     156.400  99.160  10.855  1.00 39.12      A16S
ATOM    468  O1P G   A  27     156.088  99.408  12.286  1.00 28.82      A16S
ATOM    469  O2P G   A  27     156.713  97.781  10.405  1.00 28.82      A16S
ATOM    470  O5* G   A  27     155.199  99.706   9.973  1.00 39.12      A16S
ATOM    471  C5* G   A  27     154.440 100.843  10.390  1.00 39.12      A16S
ATOM    472  C4* G   A  27     153.075 100.789   9.765  1.00 39.12      A16S
ATOM    473  O4* G   A  27     153.240 100.800   8.320  1.00 39.12      A16S
ATOM    474  C1* G   A  27     152.232 100.006   7.719  1.00 39.12      A16S
ATOM    475  N9  G   A  27     152.852  98.888   7.010  1.00 28.82      A16S
ATOM    476  C4  G   A  27     152.268  98.141   6.023  1.00 28.82      A16S
ATOM    477  N3  G   A  27     151.049  98.356   5.490  1.00 28.82      A16S
ATOM    478  C2  G   A  27     150.733  97.441   4.594  1.00 28.82      A16S
ATOM    479  N2  G   A  27     149.547  97.512   3.966  1.00 28.82      A16S
ATOM    480  N1  G   A  27     151.555  96.396   4.249  1.00 28.82      A16S
ATOM    481  C6  G   A  27     152.818  96.167   4.783  1.00 28.82      A16S
ATOM    482  O6  G   A  27     153.480  95.194   4.405  1.00 28.82      A16S
ATOM    483  C5  G   A  27     153.163  97.142   5.740  1.00 28.82      A16S
ATOM    484  N7  G   A  27     154.309  97.282   6.496  1.00 28.82      A16S
ATOM    485  C8  G   A  27     154.086  98.338   7.225  1.00 28.82      A16S
ATOM    486  C2* G   A  27     151.332  99.496   8.843  1.00 39.12      A16S
ATOM    487  O2* G   A  27     150.269 100.397   9.048  1.00 39.12      A16S
ATOM    488  C3* G   A  27     152.278  99.521  10.024  1.00 39.12      A16S
ATOM    489  O3* G   A  27     151.557  99.534  11.238  1.00 39.12      A16S
ATOM    490  P   G   A  28     151.101  98.135  11.903  1.00 42.90      A16S
ATOM    491  O1P G   A  28     150.299  98.485  13.105  1.00 36.67      A16S
ATOM    492  O2P G   A  28     152.295  97.259  12.045  1.00 36.67      A16S
ATOM    493  O5* G   A  28     150.112  97.464  10.841  1.00 42.90      A16S
ATOM    494  C5* G   A  28     148.817  98.036  10.595  1.00 42.90      A16S
ATOM    495  C4* G   A  28     148.076  97.294   9.503  1.00 42.90      A16S
ATOM    496  O4* G   A  28     148.775  97.411   8.238  1.00 42.90      A16S
ATOM    497  C1* G   A  28     148.491  96.279   7.427  1.00 42.90      A16S
ATOM    498  N9  G   A  28     149.723  95.529   7.198  1.00 36.67      A16S
ATOM    499  C4  G   A  28     149.902  94.502   6.304  1.00 36.67      A16S
ATOM    500  N3  G   A  28     148.987  94.039   5.434  1.00 36.67      A16S
ATOM    501  C2  G   A  28     149.448  93.020   4.736  1.00 36.67      A16S
ATOM    502  N2  G   A  28     148.671  92.437   3.829  1.00 36.67      A16S
ATOM    503  N1  G   A  28     150.703  92.500   4.877  1.00 36.67      A16S
ATOM    504  C6  G   A  28     151.660  92.967   5.766  1.00 36.67      A16S
ATOM    505  O6  G   A  28     152.765  92.427   5.825  1.00 36.67      A16S
ATOM    506  C5  G   A  28     151.183  94.054   6.516  1.00 36.67      A16S
ATOM    507  N7  G   A  28     151.812  94.805   7.492  1.00 36.67      A16S
ATOM    508  C8  G   A  28     150.912  95.672   7.860  1.00 36.67      A16S
ATOM    509  C2* G   A  28     147.516  95.416   8.214  1.00 42.90      A16S
ATOM    510  O2* G   A  28     146.213  95.830   7.877  1.00 42.90      A16S
ATOM    511  C3* G   A  28     147.857  95.800   9.643  1.00 42.90      A16S
ATOM    512  O3* G   A  28     146.806  95.453  10.522  1.00 42.90      A16S
ATOM    513  P   G   A  29     146.959  94.145  11.445  1.00 36.90      A16S
ATOM    514  O1P G   A  29     145.791  94.122  12.367  1.00 56.15      A16S
ATOM    515  O2P G   A  29     148.337  94.138  12.009  1.00 56.15      A16S
ATOM    516  O5* G   A  29     146.859  92.928  10.425  1.00 36.90      A16S
ATOM    517  C5* G   A  29     145.672  92.743   9.678  1.00 36.90      A16S
ATOM    518  C4* G   A  29     145.855  91.696   8.619  1.00 36.90      A16S
ATOM    519  O4* G   A  29     146.909  92.069   7.703  1.00 36.90      A16S
ATOM    520  C1* G   A  29     147.456  90.904   7.115  1.00 36.90      A16S
ATOM    521  N9  G   A  29     148.883  90.833   7.415  1.00 56.15      A16S
ATOM    522  C4  G   A  29     149.792  89.995   6.817  1.00 56.15      A16S
ATOM    523  N3  G   A  29     149.531  89.127   5.823  1.00 56.15      A16S
ATOM    524  C2  G   A  29     150.604  88.454   5.466  1.00 56.15      A16S
ATOM    525  N2  G   A  29     150.525  87.567   4.471  1.00 56.15      A16S
ATOM    526  N1  G   A  29     151.832  88.609   6.052  1.00 56.15      A16S
ATOM    527  C6  G   A  29     152.119  89.498   7.078  1.00 56.15      A16S
ATOM    528  O6  G   A  29     153.259  89.561   7.538  1.00 56.15      A16S
ATOM    529  C5  G   A  29     150.985  90.234   7.457  1.00 56.15      A16S
ATOM    530  N7  G   A  29     150.839  91.221   8.417  1.00 56.15      A16S
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ATOM    531  C8  G   A  29     149.578  91.549   8.355  1.00 56.15      A16S
ATOM    532  C2* G   A  29     146.719  89.713   7.723  1.00 36.90      A16S
ATOM    533  O2* G   A  29     145.639  89.385   6.865  1.00 36.90      A16S
ATOM    534  C3* G   A  29     146.221  90.291   9.040  1.00 36.90      A16S
ATOM    535  O3* G   A  29     145.086  89.572   9.476  1.00 36.90      A16S
ATOM    536  P   U   A  30     145.279  88.322  10.448  1.00 48.79      A16S
ATOM    537  O1P U   A  30     143.931  87.823  10.789  1.00 37.23      A16S
ATOM    538  O2P U   A  30     146.195  88.757  11.534  1.00 37.23      A16S
ATOM    539  O5* U   A  30     146.035  87.240   9.545  1.00 48.79      A16S
ATOM    540  C5* U   A  30     145.344  86.444   8.535  1.00 48.79      A16S
ATOM    541  C4* U   A  30     146.254  85.335   8.023  1.00 48.79      A16S
ATOM    542  O4* U   A  30     147.498  85.952   7.647  1.00 48.79      A16S
ATOM    543  C1* U   A  30     148.558  85.048   7.850  1.00 48.79      A16S
ATOM    544  N1  U   A  30     149.712  85.768   8.402  1.00 37.23      A16S
ATOM    545  C6  U   A  30     149.551  86.765   9.309  1.00 37.23      A16S
ATOM    546  C2  U   A  30     150.975  85.410   7.953  1.00 37.23      A16S
ATOM    547  O2  U   A  30     151.175  84.508   7.146  1.00 37.23      A16S
ATOM    548  N3  U   A  30     151.998  86.145   8.480  1.00 37.23      A16S
ATOM    549  C4  U   A  30     151.895  87.164   9.384  1.00 37.23      A16S
ATOM    550  O4  U   A  30     152.909  87.735   9.770  1.00 37.23      A16S
ATOM    551  C5  U   A  30     150.570  87.459   9.798  1.00 37.23      A16S
ATOM    552  C2* U   A  30     148.056  83.855   8.656  1.00 48.79      A16S
ATOM    553  O2* U   A  30     148.096  82.686   7.854  1.00 48.79      A16S
ATOM    554  C3* U   A  30     146.651  84.294   9.065  1.00 48.79      A16S
ATOM    555  O3* U   A  30     145.834  83.101   9.116  1.00 48.79      A16S
ATOM    556  P   G   A  31     144.921  82.628   7.852  1.00 33.12      A16S
ATOM    557  O1P G   A  31     145.767  82.294   6.665  1.00 48.58      A16S
ATOM    558  O2P G   A  31     143.787  83.581   7.705  1.00 48.58      A16S
ATOM    559  O5* G   A  31     144.333  81.250   8.388  1.00 33.12      A16S
ATOM    560  C5* G   A  31     143.740  81.183   9.698  1.00 33.12      A16S
ATOM    561  C4* G   A  31     144.113  79.897  10.380  1.00 33.12      A16S
ATOM    562  O4* G   A  31     143.752  78.815   9.493  1.00 33.12      A16S
ATOM    563  C1* G   A  31     144.883  78.021   9.223  1.00 33.12      A16S
ATOM    564  N9  G   A  31     144.820  77.614   7.823  1.00 48.58      A16S
ATOM    565  C4  G   A  31     144.623  76.344   7.355  1.00 48.58      A16S
ATOM    566  N3  G   A  31     144.432  75.249   8.106  1.00 48.58      A16S
ATOM    567  C2  G   A  31     144.278  74.169   7.371  1.00 48.58      A16S
ATOM    568  N2  G   A  31     144.054  72.990   7.953  1.00 48.58      A16S
ATOM    569  N1  G   A  31     144.328  74.159   6.010  1.00 48.58      A16S
ATOM    570  C6  G   A  31     144.538  75.273   5.213  1.00 48.58      A16S
ATOM    571  O6  G   A  31     144.596  75.149   3.981  1.00 48.58      A16S
ATOM    572  C5  G   A  31     144.676  76.445   5.988  1.00 48.58      A16S
ATOM    573  N7  G   A  31     144.879  77.759   5.597  1.00 48.58      A16S
ATOM    574  C8  G   A  31     144.958  78.417   6.718  1.00 48.58      A16S
ATOM    575  C2* G   A  31     146.108  78.864   9.580  1.00 33.12      A16S
ATOM    576  O2* G   A  31     147.180  78.030   9.975  1.00 33.12      A16S
ATOM    577  C3* G   A  31     145.582  79.710  10.731  1.00 33.12      A16S
ATOM    578  O3* G   A  31     145.661  78.934  11.922  1.00 33.12      A16S
ATOM    579  P   A   A  32     146.537  79.449  13.161  1.00 35.13      A16S
ATOM    580  O1P A   A  32     146.775  78.323  14.100  1.00 46.70      A16S
ATOM    581  O2P A   A  32     145.901  80.689  13.654  1.00 46.70      A16S
ATOM    582  O5* A   A  32     147.909  79.854  12.484  1.00 35.13      A16S
ATOM    583  C5* A   A  32     149.148  79.380  12.988  1.00 35.13      A16S
ATOM    584  C4* A   A  32     149.991  78.889  11.850  1.00 35.13      A16S
ATOM    585  O4* A   A  32     150.096  79.908  10.825  1.00 35.13      A16S
ATOM    586  C1* A   A  32     151.404  79.903  10.279  1.00 35.13      A16S
ATOM    587  N9  A   A  32     152.006  81.212  10.542  1.00 46.70      A16S
ATOM    588  C4  A   A  32     153.294  81.622  10.278  1.00 46.70      A16S
ATOM    589  N3  A   A  32     154.275  80.918   9.694  1.00 46.70      A16S
ATOM    590  C2  A   A  32     155.392  81.644   9.619  1.00 46.70      A16S
ATOM    591  N1  A   A  32     155.624  82.895  10.035  1.00 46.70      A16S
ATOM    592  C6  A   A  32     154.620  83.572  10.622  1.00 46.70      A16S
ATOM    593  N6  A   A  32     154.852  84.813  11.050  1.00 46.70      A16S
ATOM    594  C5  A   A  32     153.381  82.919  10.750  1.00 46.70      A16S
ATOM    595  N7  A   A  32     152.168  83.330  11.276  1.00 46.70      A16S
ATOM    596  C8  A   A  32     151.389  82.286  11.125  1.00 46.70      A16S
ATOM    597  C2* A   A  32     152.154  78.732  10.921  1.00 35.13      A16S
ATOM    598  O2* A   A  32     151.993  77.576  10.114  1.00 35.13      A16S
ATOM    599  C3* A   A  32     151.415  78.585  12.239  1.00 35.13      A16S
ATOM    600  O3* A   A  32     151.477  77.293  12.793  1.00 35.13      A16S
ATOM    601  P   A   A  33     151.970  77.115  14.307  1.00 37.25      A16S
ATOM    602  O1P A   A  33     151.289  75.913  14.867  1.00 49.88      A16S
ATOM    603  O2P A   A  33     151.837  78.412  15.010  1.00 49.88      A16S
ATOM    604  O5* A   A  33     153.523  76.809  14.132  1.00 37.25      A16S
ATOM    605  C5* A   A  33     153.964  75.736  13.289  1.00 37.25      A16S
ATOM    606  C4* A   A  33     155.242  76.113  12.597  1.00 37.25      A16S
ATOM    607  O4* A   A  33     155.010  77.299  11.807  1.00 37.25      A16S
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ATOM    608  C1* A   A  33     156.146  78.135  11.852  1.00 37.25      A16S
ATOM    609  N9  A   A  33     155.751  79.394  12.481  1.00 49.88      A16S
ATOM    610  C4  A   A  33     156.521  80.526  12.596  1.00 49.88      A16S
ATOM    611  N3  A   A  33     157.778  80.708  12.162  1.00 49.88      A16S
ATOM    612  C2  A   A  33     158.201  81.933  12.450  1.00 49.88      A16S
ATOM    613  N1  A   A  33     157.564  82.918  13.076  1.00 49.88      A16S
ATOM    614  C6  A   A  33     156.304  82.701  13.504  1.00 49.88      A16S
ATOM    615  N6  A   A  33     155.668  83.679  14.145  1.00 49.88      A16S
ATOM    616  C5  A   A  33     155.736  81.448  13.255  1.00 49.88      A16S
ATOM    617  N7  A   A  33     154.491  80.913  13.552  1.00 49.88      A16S
ATOM    618  C8  A   A  33     154.551  79.696  13.075  1.00 49.88      A16S
ATOM    619  C2* A   A  33     157.225  77.403  12.645  1.00 37.25      A16S
ATOM    620  O2* A   A  33     158.054  76.700  11.740  1.00 37.25      A16S
ATOM    621  C3* A   A  33     156.385  76.483  13.518  1.00 37.25      A16S
ATOM    622  O3* A   A  33     157.091  75.325  13.933  1.00 37.25      A16S
ATOM    623  P   C   A  34     157.584  75.198  15.460  1.00 35.34      A16S
ATOM    624  O1P C   A  34     157.939  73.764  15.650  1.00 54.13      A16S
ATOM    625  O2P C   A  34     156.584  75.826  16.365  1.00 54.13      A16S
ATOM    626  O5* C   A  34     158.911  76.080  15.517  1.00 35.34      A16S
ATOM    627  C5* C   A  34     160.102  75.623  14.886  1.00 35.34      A16S
ATOM    628  C4* C   A  34     161.123  76.711  14.871  1.00 35.34      A16S
ATOM    629  O4* C   A  34     160.604  77.828  14.118  1.00 35.34      A16S
ATOM    630  C1* C   A  34     161.032  79.045  14.705  1.00 35.34      A16S
ATOM    631  N1  C   A  34     159.849  79.749  15.214  1.00 54.13      A16S
ATOM    632  C6  C   A  34     158.632  79.126  15.278  1.00 54.13      A16S
ATOM    633  C2  C   A  34     159.991  81.065  15.651  1.00 54.13      A16S
ATOM    634  O2  C   A  34     161.109  81.605  15.575  1.00 54.13      A16S
ATOM    635  N3  C   A  34     158.912  81.712  16.149  1.00 54.13      A16S
ATOM    636  C4  C   A  34     157.734  81.086  16.223  1.00 54.13      A16S
ATOM    637  N4  C   A  34     156.700  81.748  16.746  1.00 54.13      A16S
ATOM    638  C5  C   A  34     157.563  79.750  15.772  1.00 54.13      A16S
ATOM    639  C2* C   A  34     161.952  78.689  15.863  1.00 35.34      A16S
ATOM    640  O2* C   A  34     163.285  78.713  15.404  1.00 35.34      A16S
ATOM    641  C3* C   A  34     161.440  77.304  16.221  1.00 35.34      A16S
ATOM    642  O3* C   A  34     162.371  76.536  16.932  1.00 35.34      A16S
ATOM    643  P   G   A  35     162.291  76.515  18.528  1.00 37.68      A16S
ATOM    644  O1P G   A  35     163.169  75.427  19.033  1.00 40.21      A16S
ATOM    645  O2P G   A  35     160.847  76.517  18.892  1.00 40.21      A16S
ATOM    646  O5* G   A  35     162.952  77.904  18.929  1.00 37.68      A16S
ATOM    647  C5* G   A  35     164.338  78.123  18.684  1.00 37.68      A16S
ATOM    648  C4* G   A  35     164.739  79.489  19.152  1.00 37.68      A16S
ATOM    649  O4* G   A  35     164.029  80.483  18.379  1.00 37.68      A16S
ATOM    650  C1* G   A  35     163.734  81.597  19.199  1.00 37.68      A16S
ATOM    651  N9  G   A  35     162.285  81.718  19.306  1.00 40.21      A16S
ATOM    652  C4  G   A  35     161.591  82.844  19.670  1.00 40.21      A16S
ATOM    653  N3  G   A  35     162.130  84.033  19.998  1.00 40.21      A16S
ATOM    654  C2  G   A  35     161.205  84.924  20.300  1.00 40.21      A16S
ATOM    655  N2  G   A  35     161.560  86.161  20.666  1.00 40.21      A16S
ATOM    656  N1  G   A  35     159.866  84.669  20.272  1.00 40.21      A16S
ATOM    657  C6  G   A  35     159.293  83.455  19.941  1.00 40.21      A16S
ATOM    658  O6  G   A  35     158.071  83.337  19.951  1.00 40.21      A16S
ATOM    659  C5  G   A  35     160.266  82.487  19.626  1.00 40.21      A16S
ATOM    660  N7  G   A  35     160.125  81.155  19.260  1.00 40.21      A16S
ATOM    661  C8  G   A  35     161.347  80.741  19.074  1.00 40.21      A16S
ATOM    662  C2* G   A  35     164.362  81.336  20.563  1.00 37.68      A16S
ATOM    663  O2* G   A  35     165.667  81.866  20.568  1.00 37.68      A16S
ATOM    664  C3* G   A  35     164.398  79.822  20.589  1.00 37.68      A16S
ATOM    665  O3* G   A  35     165.368  79.350  21.493  1.00 37.68      A16S
ATOM    666  P   C   A  36     164.908  78.851  22.942  1.00 45.93      A16S
ATOM    667  O1P C   A  36     166.037  78.049  23.466  1.00 31.23      A16S
ATOM    668  O2P C   A  36     163.555  78.244  22.841  1.00 31.23      A16S
ATOM    669  O5* C   A  36     164.791  80.186  23.795  1.00 45.93      A16S
ATOM    670  C5* C   A  36     165.964  80.941  24.137  1.00 45.93      A16S
ATOM    671  C4* C   A  36     165.570  82.263  24.737  1.00 45.93      A16S
ATOM    672  O4* C   A  36     164.897  83.063  23.725  1.00 45.93      A16S
ATOM    673  C1* C   A  36     163.844  83.808  24.323  1.00 45.93      A16S
ATOM    674  N1  C   A  36     162.557  83.308  23.814  1.00 31.23      A16S
ATOM    675  C6  C   A  36     162.470  82.084  23.229  1.00 31.23      A16S
ATOM    676  C2  C   A  36     161.404  84.105  23.958  1.00 31.23      A16S
ATOM    677  O2  C   A  36     161.502  85.212  24.488  1.00 31.23      A16S
ATOM    678  N3  C   A  36     160.218  83.645  23.520  1.00 31.23      A16S
ATOM    679  C4  C   A  36     160.148  82.444  22.955  1.00 31.23      A16S
ATOM    680  N4  C   A  36     158.960  82.019  22.529  1.00 31.23      A16S
ATOM    681  C5  C   A  36     161.300  81.615  22.794  1.00 31.23      A16S
ATOM    682  C2* C   A  36     163.916  83.555  25.825  1.00 45.93      A16S
ATOM    683  O2* C   A  36     164.734  84.531  26.430  1.00 45.93      A16S
ATOM    684  C3* C   A  36     164.552  82.177  25.860  1.00 45.93      A16S
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ATOM    685  O3* C   A  36     165.087  81.873  27.128  1.00 45.93      A16S
ATOM    686  P    U   A  37     164.149  81.141  28.217  1.00 35.08      A16S
ATOM    687  O1P U   A  37     164.936  81.090  29.486  1.00 48.35      A16S
ATOM    688  O2P U   A  37     163.621  79.874  27.622  1.00 48.35      A16S
ATOM    689  O5* U   A  37     162.903  82.125  28.416  1.00 35.08      A16S
ATOM    690  C5* U   A  37     163.030  83.358  29.150  1.00 35.08      A16S
ATOM    691  C4* U   A  37     161.680  84.028  29.331  1.00 35.08      A16S
ATOM    692  O4* U   A  37     161.148  84.453  28.046  1.00 35.08      A16S
ATOM    693  C1* U   A  37     159.727  84.438  28.086  1.00 35.08      A16S
ATOM    694  N1   U   A  37     159.229  83.407  27.162  1.00 48.35      A16S
ATOM    695  C6   U   A  37     160.020  82.360  26.776  1.00 48.35      A16S
ATOM    696  C2   U   A  37     157.910  83.493  26.735  1.00 48.35      A16S
ATOM    697  O2   U   A  37     157.176  84.437  26.991  1.00 48.35      A16S
ATOM    698  N3   U   A  37     157.478  82.428  25.993  1.00 48.35      A16S
ATOM    699  C4   U   A  37     158.208  81.328  25.625  1.00 48.35      A16S
ATOM    700  O4   U   A  37     157.641  80.389  25.069  1.00 48.35      A16S
ATOM    701  C5   U   A  37     159.567  81.348  26.046  1.00 48.35      A16S
ATOM    702  C2* U   A  37     159.325  84.015  29.495  1.00 35.08      A16S
ATOM    703  O2* U   A  37     159.102  85.138  30.324  1.00 35.08      A16S
ATOM    704  C3* U   A  37     160.541  83.215  29.924  1.00 35.08      A16S
ATOM    705  O3* U   A  37     160.553  83.054  31.326  1.00 35.08      A16S
ATOM    706  P    G   A  38     159.801  81.783  31.967  1.00 50.82      A16S
ATOM    707  O1P G   A  38     160.005  81.826  33.436  1.00 73.51      A16S
ATOM    708  O2P G   A  38     160.223  80.580  31.206  1.00 73.51      A16S
ATOM    709  O5* G   A  38     158.260  82.049  31.667  1.00 50.82      A16S
ATOM    710  C5* G   A  38     157.632  83.220  32.195  1.00 50.82      A16S
ATOM    711  C4* G   A  38     156.223  83.347  31.697  1.00 50.82      A16S
ATOM    712  O4* G   A  38     156.238  83.413  30.257  1.00 50.82      A16S
ATOM    713  C1* G   A  38     155.040  82.859  29.748  1.00 50.82      A16S
ATOM    714  N9   G   A  38     155.358  81.724  28.891  1.00 73.51      A16S
ATOM    715  C4   G   A  38     154.467  81.078  28.080  1.00 73.51      A16S
ATOM    716  N3   G   A  38     153.174  81.412  27.916  1.00 73.51      A16S
ATOM    717  C2   G   A  38     152.562  80.600  27.087  1.00 73.51      A16S
ATOM    718  N2   G   A  38     151.276  80.801  26.796  1.00 73.51      A16S
ATOM    719  N1   G   A  38     153.167  79.535  26.475  1.00 73.51      A16S
ATOM    720  C6   G   A  38     154.499  79.176  26.628  1.00 73.51      A16S
ATOM    721  O6   G   A  38     154.948  78.197  26.024  1.00 73.51      A16S
ATOM    722  C5   G   A  38     155.170  80.048  27.509  1.00 73.51      A16S
ATOM    723  N7   G   A  38     156.491  80.059  27.932  1.00 73.51      A16S
ATOM    724  C8   G   A  38     156.558  81.073  28.748  1.00 73.51      A16S
ATOM    725  C2* G   A  38     154.204  82.392  30.933  1.00 50.82      A16S
ATOM    726  O2* G   A  38     153.243  83.384  31.236  1.00 50.82      A16S
ATOM    727  C3* G   A  38     155.278  82.202  31.994  1.00 50.82      A16S
ATOM    728  O3* G   A  38     154.745  82.258  33.299  1.00 50.82      A16S
ATOM    729  P    G   A  39     154.575  80.899  34.144  1.00 53.73      A16S
ATOM    730  O1P G   A  39     155.657  80.899  35.172  1.00 69.84      A16S
ATOM    731  O2P G   A  39     154.430  79.730  33.235  1.00 69.84      A16S
ATOM    732  O5* G   A  39     153.178  81.106  34.870  1.00 53.73      A16S
ATOM    733  C5* G   A  39     151.976  81.247  34.109  1.00 53.73      A16S
ATOM    734  C4* G   A  39     150.934  81.951  34.932  1.00 53.73      A16S
ATOM    735  O4* G   A  39     151.223  83.377  34.992  1.00 53.73      A16S
ATOM    736  C1* G   A  39     150.005  84.109  35.033  1.00 53.73      A16S
ATOM    737  N9   G   A  39     149.914  84.972  33.856  1.00 69.84      A16S
ATOM    738  C4   G   A  39     148.938  85.911  33.633  1.00 69.84      A16S
ATOM    739  N3   G   A  39     147.954  86.245  34.493  1.00 69.84      A16S
ATOM    740  C2   G   A  39     147.146  87.156  33.988  1.00 69.84      A16S
ATOM    741  N2   G   A  39     146.132  87.617  34.724  1.00 69.84      A16S
ATOM    742  N1   G   A  39     147.279  87.685  32.728  1.00 69.84      A16S
ATOM    743  C6   G   A  39     148.283  87.353  31.826  1.00 69.84      A16S
ATOM    744  O6   G   A  39     148.306  87.882  30.717  1.00 69.84      A16S
ATOM    745  C5   G   A  39     149.171  86.390  32.365  1.00 69.84      A16S
ATOM    746  N7   G   A  39     150.301  85.802  31.817  1.00 69.84      A16S
ATOM    747  C8   G   A  39     150.716  84.978  32.741  1.00 69.84      A16S
ATOM    748  C2* G   A  39     148.860  83.093  34.999  1.00 53.73      A16S
ATOM    749  O2* G   A  39     148.380  82.810  36.295  1.00 53.73      A16S
ATOM    750  C3* G   A  39     149.535  81.893  34.360  1.00 53.73      A16S
ATOM    751  O3* G   A  39     148.871  80.689  34.671  1.00 53.73      A16S
ATOM    752  P    C   A  40     147.689  80.190  33.713  1.00 60.24      A16S
ATOM    753  O1P C   A  40     147.344  78.792  34.077  1.00 62.87      A16S
ATOM    754  O2P C   A  40     148.082  80.509  32.314  1.00 62.87      A16S
ATOM    755  O5* C   A  40     146.471  81.134  34.103  1.00 60.24      A16S
ATOM    756  C5* C   A  40     146.009  81.188  35.448  1.00 60.24      A16S
ATOM    757  C4* C   A  40     144.773  82.031  35.535  1.00 60.24      A16S
ATOM    758  O4* C   A  40     145.114  83.425  35.355  1.00 60.24      A16S
ATOM    759  C1* C   A  40     144.079  84.080  34.645  1.00 60.24      A16S
ATOM    760  N1   C   A  40     144.623  84.550  33.362  1.00 62.87      A16S
ATOM    761  C6   C   A  40     145.896  84.238  32.982  1.00 62.87      A16S
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ATOM    762  C2  C   A  40     143.811  85.321  32.534  1.00 62.87      A16S
ATOM    763  O2  C   A  40     142.658  85.585  32.901  1.00 62.87      A16S
ATOM    764  N3  C   A  40     144.297  85.758  31.358  1.00 62.87      A16S
ATOM    765  C4  C   A  40     145.543  85.454  31.000  1.00 62.87      A16S
ATOM    766  N4  C   A  40     145.989  85.918  29.830  1.00 62.87      A16S
ATOM    767  C5  C   A  40     146.390  84.664  31.822  1.00 62.87      A16S
ATOM    768  C2* C   A  40     142.960  83.064  34.429  1.00 60.24      A16S
ATOM    769  O2* C   A  40     142.024  83.181  35.480  1.00 60.24      A16S
ATOM    770  C3* C   A  40     143.737  81.758  34.466  1.00 60.24      A16S
ATOM    771  O3* C   A  40     142.937  80.631  34.765  1.00 60.24      A16S
ATOM    772  P   G   A  41     142.385  79.717  33.566  1.00 49.22      A16S
ATOM    773  O1P G   A  41     141.816  78.510  34.225  1.00 72.57      A16S
ATOM    774  O2P G   A  41     143.448  79.556  32.537  1.00 72.57      A16S
ATOM    775  O5* G   A  41     141.193  80.584  32.951  1.00 49.22      A16S
ATOM    776  C5* G   A  41     140.043  80.901  33.754  1.00 49.22      A16S
ATOM    777  C4* G   A  41     139.204  81.975  33.102  1.00 49.22      A16S
ATOM    778  O4* G   A  41     140.007  83.167  32.903  1.00 49.22      A16S
ATOM    779  C1* G   A  41     139.573  83.855  31.735  1.00 49.22      A16S
ATOM    780  N9  G   A  41     140.704  83.944  30.813  1.00 72.57      A16S
ATOM    781  C4  G   A  41     140.850  84.801  29.745  1.00 72.57      A16S
ATOM    782  N3  G   A  41     139.973  85.750  29.356  1.00 72.57      A16S
ATOM    783  C2  G   A  41     140.394  86.398  28.279  1.00 72.57      A16S
ATOM    784  N2  G   A  41     139.656  87.383  27.759  1.00 72.57      A16S
ATOM    785  N1  G   A  41     141.574  86.127  27.633  1.00 72.57      A16S
ATOM    786  C6  G   A  41     142.487  85.145  28.014  1.00 72.57      A16S
ATOM    787  O6  G   A  41     143.521  84.956  27.346  1.00 72.57      A16S
ATOM    788  C5  G   A  41     142.057  84.462  29.172  1.00 72.57      A16S
ATOM    789  N7  G   A  41     142.665  83.435  29.873  1.00 72.57      A16S
ATOM    790  C8  G   A  41     141.832  83.162  30.835  1.00 72.57      A16S
ATOM    791  C2* G   A  41     138.392  83.070  31.154  1.00 49.22      A16S
ATOM    792  O2* G   A  41     137.170  83.632  31.592  1.00 49.22      A16S
ATOM    793  C3* G   A  41     138.623  81.677  31.732  1.00 49.22      A16S
ATOM    794  O3* G   A  41     137.412  80.940  31.797  1.00 49.22      A16S
ATOM    795  P   G   A  42     136.944  80.091  30.515  1.00 53.90      A16S
ATOM    796  O1P G   A  42     135.839  79.182  30.918  1.00 62.01      A16S
ATOM    797  O2P G   A  42     138.153  79.530  29.853  1.00 62.01      A16S
ATOM    798  O5* G   A  42     136.321  81.182  29.544  1.00 53.90      A16S
ATOM    799  C5* G   A  42     135.135  81.874  29.919  1.00 53.90      A16S
ATOM    800  C4* G   A  42     134.802  82.912  28.894  1.00 53.90      A16S
ATOM    801  O4* G   A  42     135.868  83.881  28.827  1.00 53.90      A16S
ATOM    802  C1* G   A  42     136.011  84.334  27.499  1.00 53.90      A16S
ATOM    803  N9  G   A  42     137.359  84.013  27.054  1.00 62.01      A16S
ATOM    804  C4  G   A  42     138.006  84.553  25.975  1.00 62.01      A16S
ATOM    805  N3  G   A  42     137.496  85.465  25.128  1.00 62.01      A16S
ATOM    806  C2  G   A  42     138.358  85.804  24.193  1.00 62.01      A16S
ATOM    807  N2  G   A  42     138.005  86.701  23.259  1.00 62.01      A16S
ATOM    808  N1  G   A  42     139.627  85.289  24.102  1.00 62.01      A16S
ATOM    809  C6  G   A  42     140.170  84.343  24.965  1.00 62.01      A16S
ATOM    810  O6  G   A  42     141.327  83.936  24.794  1.00 62.01      A16S
ATOM    811  C5  G   A  42     139.251  83.972  25.967  1.00 62.01      A16S
ATOM    812  N7  G   A  42     139.382  83.073  27.015  1.00 62.01      A16S
ATOM    813  C8  G   A  42     138.235  83.128  27.630  1.00 62.01      A16S
ATOM    814  C2* G   A  42     134.935  83.655  26.662  1.00 53.90      A16S
ATOM    815  O2* G   A  42     133.804  84.500  26.649  1.00 53.90      A16S
ATOM    816  C3* G   A  42     134.672  82.405  27.477  1.00 53.90      A16S
ATOM    817  O3* G   A  42     133.377  81.911  27.265  1.00 53.90      A16S
ATOM    818  P   C   A  43     133.158  80.698  26.247  1.00 44.49      A16S
ATOM    819  O1P C   A  43     131.723  80.322  26.393  1.00 41.25      A16S
ATOM    820  O2P C   A  43     134.232  79.672  26.442  1.00 41.25      A16S
ATOM    821  O5* C   A  43     133.336  81.370  24.821  1.00 44.49      A16S
ATOM    822  C5* C   A  43     132.391  82.338  24.371  1.00 44.49      A16S
ATOM    823  C4* C   A  43     132.875  82.980  23.107  1.00 44.49      A16S
ATOM    824  O4* C   A  43     134.084  83.730  23.358  1.00 44.49      A16S
ATOM    825  C1* C   A  43     134.912  83.693  22.218  1.00 44.49      A16S
ATOM    826  N1  C   A  43     136.186  83.083  22.592  1.00 41.25      A16S
ATOM    827  C6  C   A  43     136.265  82.200  23.631  1.00 41.25      A16S
ATOM    828  C2  C   A  43     137.322  83.405  21.853  1.00 41.25      A16S
ATOM    829  O2  C   A  43     137.231  84.253  20.947  1.00 41.25      A16S
ATOM    830  N3  C   A  43     138.490  82.801  22.147  1.00 41.25      A16S
ATOM    831  C4  C   A  43     138.552  81.932  23.154  1.00 41.25      A16S
ATOM    832  N4  C   A  43     139.725  81.356  23.409  1.00 41.25      A16S
ATOM    833  C5  C   A  43     137.416  81.612  23.945  1.00 41.25      A16S
ATOM    834  C2* C   A  43     134.199  82.862  21.160  1.00 44.49      A16S
ATOM    835  O2* C   A  43     133.482  83.732  20.316  1.00 44.49      A16S
ATOM    836  C3* C   A  43     133.268  82.021  22.014  1.00 44.49      A16S
ATOM    837  O3* C   A  43     132.136  81.606  21.299  1.00 44.49      A16S
ATOM    838  P   G   A  44     132.276  80.404  20.266  1.00 42.96      A16S
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ATOM	839	O1P	G	A	44	130.911	80.132	19.720	1.00	37.33	A16S
ATOM	840	O2P	G	A	44	133.066	79.315	20.923	1.00	37.33	A16S
ATOM	841	O5*	G	A	44	133.160	81.034	19.107	1.00	42.96	A16S
ATOM	842	C5*	G	A	44	133.936	80.207	18.241	1.00	42.96	A16S
ATOM	843	C4*	G	A	44	135.023	81.023	17.609	1.00	42.96	A16S
ATOM	844	O4*	G	A	44	135.875	81.565	18.641	1.00	42.96	A16S
ATOM	845	C1*	G	A	44	137.205	81.632	18.171	1.00	42.96	A16S
ATOM	846	N9	G	A	44	138.076	80.919	19.106	1.00	37.33	A16S
ATOM	847	C4	G	A	44	139.429	80.678	18.960	1.00	37.33	A16S
ATOM	848	N3	G	A	44	140.199	81.061	17.924	1.00	37.33	A16S
ATOM	849	C2	G	A	44	141.452	80.661	18.063	1.00	37.33	A16S
ATOM	850	N2	G	A	44	142.353	80.958	17.126	1.00	37.33	A16S
ATOM	851	N1	G	A	44	141.916	79.941	19.125	1.00	37.33	A16S
ATOM	852	C6	G	A	44	141.147	79.529	20.199	1.00	37.33	A16S
ATOM	853	O6	G	A	44	141.664	78.862	21.096	1.00	37.33	A16S
ATOM	854	C5	G	A	44	139.794	79.963	20.074	1.00	37.33	A16S
ATOM	855	N7	G	A	44	138.708	79.774	20.914	1.00	37.33	A16S
ATOM	856	C8	G	A	44	137.715	80.354	20.300	1.00	37.33	A16S
ATOM	857	C2*	G	A	44	137.215	81.092	16.739	1.00	42.96	A16S
ATOM	858	O2*	G	A	44	137.092	82.164	15.835	1.00	42.96	A16S
ATOM	859	C3*	G	A	44	135.958	80.246	16.717	1.00	42.96	A16S
ATOM	860	O3*	G	A	44	135.419	80.119	15.415	1.00	42.96	A16S
ATOM	861	P	U	A	45	135.378	78.669	14.720	1.00	29.40	A16S
ATOM	862	O1P	U	A	45	134.708	78.857	13.407	1.00	57.13	A16S
ATOM	863	O2P	U	A	45	134.819	77.687	15.693	1.00	57.13	A16S
ATOM	864	O5*	U	A	45	136.917	78.303	14.502	1.00	29.40	A16S
ATOM	865	C5*	U	A	45	137.731	79.064	13.606	1.00	29.40	A16S
ATOM	866	C4*	U	A	45	139.195	78.848	13.904	1.00	29.40	A16S
ATOM	867	O4*	U	A	45	139.467	79.216	15.274	1.00	29.40	A16S
ATOM	868	C1*	U	A	45	140.543	78.441	15.769	1.00	29.40	A16S
ATOM	869	N1	U	A	45	140.096	77.711	16.962	1.00	57.13	A16S
ATOM	870	C6	U	A	45	138.766	77.549	17.240	1.00	57.13	A16S
ATOM	871	C2	U	A	45	141.067	77.199	17.797	1.00	57.13	A16S
ATOM	872	O2	U	A	45	142.261	77.308	17.575	1.00	57.13	A16S
ATOM	873	N3	U	A	45	140.590	76.553	18.900	1.00	57.13	A16S
ATOM	874	C4	U	A	45	139.272	76.368	19.242	1.00	57.13	A16S
ATOM	875	O4	U	A	45	138.995	75.791	20.292	1.00	57.13	A16S
ATOM	876	C5	U	A	45	138.333	76.914	18.319	1.00	57.13	A16S
ATOM	877	C2*	U	A	45	140.998	77.506	14.658	1.00	29.40	A16S
ATOM	878	O2*	U	A	45	142.088	78.116	14.008	1.00	29.40	A16S
ATOM	879	C3*	U	A	45	139.750	77.440	13.795	1.00	29.40	A16S
ATOM	880	O3*	U	A	45	140.072	77.091	12.472	1.00	29.40	A16S
ATOM	881	P	G	A	46	140.013	75.554	12.034	1.00	36.04	A16S
ATOM	882	O1P	G	A	46	140.085	75.579	10.552	1.00	35.35	A16S
ATOM	883	O2P	G	A	46	138.880	74.861	12.703	1.00	35.35	A16S
ATOM	884	O5*	G	A	46	141.365	74.953	12.614	1.00	36.04	A16S
ATOM	885	C5*	G	A	46	142.604	75.156	11.920	1.00	36.04	A16S
ATOM	886	C4*	G	A	46	143.735	74.531	12.683	1.00	36.04	A16S
ATOM	887	O4*	G	A	46	143.784	75.138	13.993	1.00	36.04	A16S
ATOM	888	C1*	G	A	46	144.171	74.174	14.956	1.00	36.04	A16S
ATOM	889	N9	G	A	46	143.080	73.999	15.907	1.00	35.35	A16S
ATOM	890	C4	G	A	46	143.189	73.409	17.129	1.00	35.35	A16S
ATOM	891	N3	G	A	46	144.322	72.943	17.665	1.00	35.35	A16S
ATOM	892	C2	G	A	46	144.118	72.395	18.827	1.00	35.35	A16S
ATOM	893	N2	G	A	46	145.145	71.874	19.478	1.00	35.35	A16S
ATOM	894	N1	G	A	46	142.894	72.309	19.433	1.00	35.35	A16S
ATOM	895	C6	G	A	46	141.702	72.770	18.893	1.00	35.35	A16S
ATOM	896	O6	G	A	46	140.628	72.600	19.506	1.00	35.35	A16S
ATOM	897	C5	G	A	46	141.915	73.377	17.638	1.00	35.35	A16S
ATOM	898	N7	G	A	46	141.020	73.975	16.763	1.00	35.35	A16S
ATOM	899	C8	G	A	46	141.758	74.337	15.751	1.00	35.35	A16S
ATOM	900	C2*	G	A	46	144.436	72.862	14.220	1.00	36.04	A16S
ATOM	901	O2*	G	A	46	145.826	72.701	13.990	1.00	36.04	A16S
ATOM	902	C3*	G	A	46	143.588	73.050	12.972	1.00	36.04	A16S
ATOM	903	O3*	G	A	46	144.030	72.260	11.902	1.00	36.04	A16S
ATOM	904	P	C	A	47	143.043	71.167	11.280	1.00	42.50	A16S
ATOM	905	O1P	C	A	47	141.938	71.907	10.630	1.00	53.61	A16S
ATOM	906	O2P	C	A	47	142.727	70.142	12.317	1.00	53.61	A16S
ATOM	907	O5*	C	A	47	143.925	70.527	10.117	1.00	42.50	A16S
ATOM	908	C5*	C	A	47	145.308	70.192	10.341	1.00	42.50	A16S
ATOM	909	C4*	C	A	47	146.039	70.024	9.030	1.00	42.50	A16S
ATOM	910	O4*	C	A	47	147.372	69.541	9.337	1.00	42.50	A16S
ATOM	911	C1*	C	A	47	147.578	68.309	8.690	1.00	42.50	A16S
ATOM	912	N1	C	A	47	148.489	67.490	9.494	1.00	53.61	A16S
ATOM	913	C6	C	A	47	148.259	67.268	10.824	1.00	53.61	A16S
ATOM	914	C2	C	A	47	149.612	66.953	8.875	1.00	53.61	A16S
ATOM	915	O2	C	A	47	149.768	67.122	7.659	1.00	53.61	A16S

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ATOM    916  N3  C   A  47     150.497  66.254   9.612  1.00 53.61      A16S
ATOM    917  C4  C   A  47     150.283  66.069  10.914  1.00 53.61      A16S
ATOM    918  N4  C   A  47     151.202  65.407  11.607  1.00 53.61      A16S
ATOM    919  C5  C   A  47     149.121  66.564  11.563  1.00 53.61      A16S
ATOM    920  C2* C   A  47     146.189  67.733   8.443  1.00 42.50      A16S
ATOM    921  O2* C   A  47     146.235  66.754   7.429  1.00 42.50      A16S
ATOM    922  C3* C   A  47     145.432  69.001   8.073  1.00 42.50      A16S
ATOM    923  O3* C   A  47     145.867  69.339   6.751  1.00 42.50      A16S
ATOM    924  P   C   A  48     144.870  70.021   5.689  1.00 40.42      A16S
ATOM    925  O1P C   A  48     143.570  70.311   6.343  1.00 80.26      A16S
ATOM    926  O2P C   A  48     144.901  69.187   4.438  1.00 80.26      A16S
ATOM    927  O5* C   A  48     145.593  71.405   5.397  1.00 40.42      A16S
ATOM    928  C5* C   A  48     147.016  71.483   5.483  1.00 40.42      A16S
ATOM    929  C4* C   A  48     147.566  72.454   4.472  1.00 40.42      A16S
ATOM    930  O4* C   A  48     147.321  73.817   4.885  1.00 40.42      A16S
ATOM    931  C1* C   A  48     148.390  74.633   4.460  1.00 40.42      A16S
ATOM    932  N1  C   A  48     148.626  75.680   5.468  1.00 80.26      A16S
ATOM    933  C6  C   A  48     148.814  75.368   6.785  1.00 80.26      A16S
ATOM    934  C2  C   A  48     148.647  77.016   5.052  1.00 80.26      A16S
ATOM    935  O2  C   A  48     148.484  77.276   3.848  1.00 80.26      A16S
ATOM    936  N3  C   A  48     148.844  77.991   5.966  1.00 80.26      A16S
ATOM    937  C4  C   A  48     149.016  77.678   7.249  1.00 80.26      A16S
ATOM    938  N4  C   A  48     149.197  78.679   8.117  1.00 80.26      A16S
ATOM    939  C5  C   A  48     149.009  76.326   7.700  1.00 80.26      A16S
ATOM    940  C2* C   A  48     149.597  73.751   4.129  1.00 40.42      A16S
ATOM    941  O2* C   A  48     150.120  74.015   2.850  1.00 40.42      A16S
ATOM    942  C3* C   A  48     149.073  72.334   4.376  1.00 40.42      A16S
ATOM    943  O3* C   A  48     149.408  71.324   3.406  1.00 40.42      A16S
ATOM    944  P   U   A  49     148.831  71.394   1.886  1.00 47.99      A16S
ATOM    945  O1P U   A  49     147.789  70.331   1.752  1.00 54.40      A16S
ATOM    946  O2P U   A  49     148.501  72.781   1.490  1.00 54.40      A16S
ATOM    947  O5* U   A  49     150.074  70.924   1.018  1.00 47.99      A16S
ATOM    948  C5* U   A  49     150.297  69.532   0.841  1.00 47.99      A16S
ATOM    949  C4* U   A  49     151.747  69.161   1.054  1.00 47.99      A16S
ATOM    950  O4* U   A  49     152.257  69.612   2.340  1.00 47.99      A16S
ATOM    951  C1* U   A  49     152.754  68.503   3.061  1.00 47.99      A16S
ATOM    952  N1  U   A  49     152.555  68.732   4.497  1.00 54.40      A16S
ATOM    953  C6  U   A  49     151.351  69.138   5.006  1.00 54.40      A16S
ATOM    954  C2  U   A  49     153.641  68.539   5.323  1.00 54.40      A16S
ATOM    955  O2  U   A  49     154.718  68.143   4.917  1.00 54.40      A16S
ATOM    956  N3  U   A  49     153.424  68.824   6.648  1.00 54.40      A16S
ATOM    957  C4  U   A  49     152.255  69.267   7.221  1.00 54.40      A16S
ATOM    958  O4  U   A  49     152.250  69.604   8.411  1.00 54.40      A16S
ATOM    959  C5  U   A  49     151.167  69.406   6.305  1.00 54.40      A16S
ATOM    960  C2* U   A  49     152.031  67.282   2.514  1.00 47.99      A16S
ATOM    961  O2* U   A  49     152.770  66.097   2.699  1.00 47.99      A16S
ATOM    962  C3* U   A  49     151.900  67.647   1.046  1.00 47.99      A16S
ATOM    963  O3* U   A  49     153.019  67.242   0.289  1.00 47.99      A16S
ATOM    964  P   A   A  50     152.797  66.227  -0.928  1.00 53.36      A16S
ATOM    965  O1P A   A  50     151.888  66.883  -1.907  1.00 60.80      A16S
ATOM    966  O2P A   A  50     154.136  65.763  -1.360  1.00 60.80      A16S
ATOM    967  O5* A   A  50     152.041  65.004  -0.245  1.00 53.36      A16S
ATOM    968  C5* A   A  50     150.874  64.416  -0.845  1.00 53.36      A16S
ATOM    969  C4* A   A  50     150.373  63.286   0.021  1.00 53.36      A16S
ATOM    970  O4* A   A  50     151.380  62.241   0.078  1.00 53.36      A16S
ATOM    971  C1* A   A  50     151.770  62.035   1.414  1.00 53.36      A16S
ATOM    972  N9  A   A  50     153.200  61.771   1.435  1.00 60.80      A16S
ATOM    973  C4  A   A  50     153.830  60.793   2.163  1.00 60.80      A16S
ATOM    974  N3  A   A  50     153.262  59.887   2.977  1.00 60.80      A16S
ATOM    975  C2  A   A  50     154.190  59.109   3.528  1.00 60.80      A16S
ATOM    976  N1  A   A  50     155.517  59.137   3.371  1.00 60.80      A16S
ATOM    977  C6  A   A  50     156.049  60.062   2.547  1.00 60.80      A16S
ATOM    978  N6  A   A  50     157.371  60.102   2.396  1.00 60.80      A16S
ATOM    979  C5  A   A  50     155.176  60.937   1.898  1.00 60.80      A16S
ATOM    980  N7  A   A  50     155.393  61.978   1.006  1.00 60.80      A16S
ATOM    981  C8  A   A  50     154.191  62.436   0.761  1.00 60.80      A16S
ATOM    982  C2* A   A  50     151.391  63.306   2.168  1.00 53.36      A16S
ATOM    983  O2* A   A  50     151.218  63.038   3.540  1.00 53.36      A16S
ATOM    984  C3* A   A  50     150.103  63.698   1.460  1.00 53.36      A16S
ATOM    985  O3* A   A  50     149.057  62.881   1.964  1.00 53.36      A16S
ATOM    986  P   A   A  51     147.527  63.326   1.783  1.00 50.01      A16S
ATOM    987  O1P A   A  51     146.758  62.737   2.925  1.00 43.58      A16S
ATOM    988  O2P A   A  51     147.532  64.801   1.583  1.00 43.58      A16S
ATOM    989  O5* A   A  51     147.053  62.606   0.439  1.00 50.01      A16S
ATOM    990  C5* A   A  51     145.657  62.511   0.137  1.00 50.01      A16S
ATOM    991  C4* A   A  51     145.434  61.966  -1.248  1.00 50.01      A16S
ATOM    992  O4* A   A  51     144.014  61.885  -1.434  1.00 50.01      A16S
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ATOM    993  C1* A   A  51     143.673  62.181  -2.765  1.00 50.01      A16S
ATOM    994  N9  A   A  51     142.464  63.002  -2.741  1.00 43.58      A16S
ATOM    995  C4  A   A  51     141.357  62.869  -3.535  1.00 43.58      A16S
ATOM    996  N3  A   A  51     141.185  62.020  -4.552  1.00 43.58      A16S
ATOM    997  C2  A   A  51     139.963  62.148  -5.063  1.00 43.58      A16S
ATOM    998  N1  A   A  51     138.970  62.962  -4.692  1.00 43.58      A16S
ATOM    999  C6  A   A  51     139.183  63.794  -3.658  1.00 43.58      A16S
ATOM   1000  N6  A   A  51     138.195  64.593  -3.268  1.00 43.58      A16S
ATOM   1001  C5  A   A  51     140.433  63.762  -3.046  1.00 43.58      A16S
ATOM   1002  N7  A   A  51     140.958  64.477  -1.991  1.00 43.58      A16S
ATOM   1003  C8  A   A  51     142.169  64.004  -1.864  1.00 43.58      A16S
ATOM   1004  C2* A   A  51     144.918  62.646  -3.518  1.00 50.01      A16S
ATOM   1005  O2* A   A  51     145.272  61.686  -4.489  1.00 50.01      A16S
ATOM   1006  C3* A   A  51     145.941  62.823  -2.394  1.00 50.01      A16S
ATOM   1007  O3* A   A  51     147.296  62.449  -2.759  1.00 50.01      A16S
ATOM   1008  P   G   A  52     147.737  60.876  -2.918  1.00 46.02      A16S
ATOM   1009  O1P G   A  52     146.566  59.961  -2.973  1.00 49.98      A16S
ATOM   1010  O2P G   A  52     148.758  60.806  -3.996  1.00 49.98      A16S
ATOM   1011  O5* G   A  52     148.498  60.590  -1.548  1.00 46.02      A16S
ATOM   1012  C5* G   A  52     147.994  59.631  -0.610  1.00 46.02      A16S
ATOM   1013  C4* G   A  52     149.074  58.636  -0.263  1.00 46.02      A16S
ATOM   1014  O4* G   A  52     150.086  59.256   0.580  1.00 46.02      A16S
ATOM   1015  C1* G   A  52     150.557  58.316   1.525  1.00 46.02      A16S
ATOM   1016  N9  G   A  52     150.236  58.820   2.854  1.00 49.98      A16S
ATOM   1017  C4  G   A  52     150.613  58.270   4.050  1.00 49.98      A16S
ATOM   1018  N3  G   A  52     151.358  57.164   4.213  1.00 49.98      A16S
ATOM   1019  C2  G   A  52     151.523  56.869   5.485  1.00 49.98      A16S
ATOM   1020  N2  G   A  52     152.212  55.782   5.834  1.00 49.98      A16S
ATOM   1021  N1  G   A  52     151.017  57.609   6.509  1.00 49.98      A16S
ATOM   1022  C6  G   A  52     150.258  58.754   6.363  1.00 49.98      A16S
ATOM   1023  O6  G   A  52     149.859  59.354   7.355  1.00 49.98      A16S
ATOM   1024  C5  G   A  52     150.053  59.072   5.014  1.00 49.98      A16S
ATOM   1025  N7  G   A  52     149.342  60.113   4.439  1.00 49.98      A16S
ATOM   1026  C8  G   A  52     149.484  59.926   3.158  1.00 49.98      A16S
ATOM   1027  C2* G   A  52     149.873  56.980   1.227  1.00 46.02      A16S
ATOM   1028  O2* G   A  52     150.707  56.232   0.372  1.00 46.02      A16S
ATOM   1029  C3* G   A  52     148.601  57.428   0.520  1.00 46.02      A16S
ATOM   1030  O3* G   A  52     148.078  56.451  -0.377  1.00 46.02      A16S
ATOM   1031  P   A   A  53     146.845  55.521   0.082  1.00 57.54      A16S
ATOM   1032  O1P A   A  53     146.597  54.585  -1.053  1.00 52.30      A16S
ATOM   1033  O2P A   A  53     145.698  56.353   0.616  1.00 52.30      A16S
ATOM   1034  O5* A   A  53     147.501  54.667   1.255  1.00 57.54      A16S
ATOM   1035  C5* A   A  53     148.661  53.860   0.983  1.00 57.54      A16S
ATOM   1036  C4* A   A  53     149.116  53.147   2.226  1.00 57.54      A16S
ATOM   1037  O4* A   A  53     149.838  54.047   3.098  1.00 57.54      A16S
ATOM   1038  C1* A   A  53     149.533  53.750   4.448  1.00 57.54      A16S
ATOM   1039  N9  A   A  53     148.867  54.918   5.018  1.00 52.30      A16S
ATOM   1040  C4  A   A  53     148.648  55.179   6.347  1.00 52.30      A16S
ATOM   1041  N3  A   A  53     149.022  54.438   7.397  1.00 52.30      A16S
ATOM   1042  C2  A   A  53     148.623  55.006   8.530  1.00 52.30      A16S
ATOM   1043  N1  A   A  53     147.938  56.132   8.714  1.00 52.30      A16S
ATOM   1044  C6  A   A  53     147.573  56.839   7.635  1.00 52.30      A16S
ATOM   1045  N6  A   A  53     146.867  57.943   7.807  1.00 52.30      A16S
ATOM   1046  C5  A   A  53     147.947  56.363   6.386  1.00 52.30      A16S
ATOM   1047  N7  A   A  53     147.748  56.858   5.111  1.00 52.30      A16S
ATOM   1048  C8  A   A  53     148.311  55.967   4.337  1.00 52.30      A16S
ATOM   1049  C2* A   A  53     148.625  52.520   4.453  1.00 57.54      A16S
ATOM   1050  O2* A   A  53     149.412  51.363   4.624  1.00 57.54      A16S
ATOM   1051  C3* A   A  53     147.992  52.601   3.071  1.00 57.54      A16S
ATOM   1052  O3* A   A  53     147.538  51.360   2.573  1.00 57.54      A16S
ATOM   1053  P   C   A  54     146.126  50.800   3.061  1.00 46.44      A16S
ATOM   1054  O1P C   A  54     146.032  49.385   2.648  1.00 47.87      A16S
ATOM   1055  O2P C   A  54     145.053  51.743   2.668  1.00 47.87      A16S
ATOM   1056  O5* C   A  54     146.310  50.861   4.634  1.00 46.44      A16S
ATOM   1057  C5* C   A  54     145.205  50.849   5.526  1.00 46.44      A16S
ATOM   1058  C4* C   A  54     145.730  50.865   6.930  1.00 46.44      A16S
ATOM   1059  O4* C   A  54     146.502  52.076   7.136  1.00 46.44      A16S
ATOM   1060  C1* C   A  54     146.369  52.494   8.482  1.00 46.44      A16S
ATOM   1061  N1  C   A  54     145.740  53.822   8.506  1.00 47.87      A16S
ATOM   1062  C6  C   A  54     145.160  54.345   7.391  1.00 47.87      A16S
ATOM   1063  C2  C   A  54     145.713  54.527   9.706  1.00 47.87      A16S
ATOM   1064  O2  C   A  54     146.320  54.071  10.682  1.00 47.87      A16S
ATOM   1065  N3  C   A  54     145.041  55.687   9.773  1.00 47.87      A16S
ATOM   1066  C4  C   A  54     144.432  56.161   8.692  1.00 47.87      A16S
ATOM   1067  N4  C   A  54     143.727  57.280   8.816  1.00 47.87      A16S
ATOM   1068  C5  C   A  54     144.503  55.501   7.440  1.00 47.87      A16S
ATOM   1069  C2* C   A  54     145.496  51.462   9.208  1.00 46.44      A16S
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ATOM   1070  O2* C   A  54      146.323  50.535   9.887  1.00 46.44      A16S
ATOM   1071  C3* C   A  54      144.711  50.846   8.053  1.00 46.44      A16S
ATOM   1072  O3* C   A  54      144.284  49.507   8.311  1.00 46.44      A16S
ATOM   1073  P   A   A  55      143.245  49.210   9.496  1.00 37.89      A16S
ATOM   1074  O1P A   A  55      142.628  47.881   9.227  1.00 77.60      A16S
ATOM   1075  O2P A   A  55      142.370  50.393   9.673  1.00 77.60      A16S
ATOM   1076  O5* A   A  55      144.192  49.080  10.769  1.00 37.89      A16S
ATOM   1077  C5* A   A  55      145.116  47.978  10.885  1.00 37.89      A16S
ATOM   1078  C4* A   A  55      145.274  47.572  12.333  1.00 37.89      A16S
ATOM   1079  O4* A   A  55      146.050  48.564  13.040  1.00 37.89      A16S
ATOM   1080  C1* A   A  55      145.644  48.600  14.394  1.00 37.89      A16S
ATOM   1081  N9  A   A  55      145.436  49.992  14.781  1.00 77.60      A16S
ATOM   1082  C4  A   A  55      145.063  50.430  16.025  1.00 77.60      A16S
ATOM   1083  N3  A   A  55      144.821  49.680  17.110  1.00 77.60      A16S
ATOM   1084  C2  A   A  55      144.465  50.444  18.137  1.00 77.60      A16S
ATOM   1085  N1  A   A  55      144.338  51.770  18.199  1.00 77.60      A16S
ATOM   1086  C6  A   A  55      144.595  52.494  17.090  1.00 77.60      A16S
ATOM   1087  N6  A   A  55      144.478  53.820  17.153  1.00 77.60      A16S
ATOM   1088  C5  A   A  55      144.976  51.801  15.931  1.00 77.60      A16S
ATOM   1089  N7  A   A  55      145.297  52.226  14.650  1.00 77.60      A16S
ATOM   1090  C8  A   A  55      145.563  51.118  14.010  1.00 77.60      A16S
ATOM   1091  C2* A   A  55      144.425  47.685  14.565  1.00 37.89      A16S
ATOM   1092  O2* A   A  55      144.785  46.476  15.193  1.00 37.89      A16S
ATOM   1093  C3* A   A  55      143.985  47.451  13.128  1.00 37.89      A16S
ATOM   1094  O3* A   A  55      143.450  46.149  13.005  1.00 37.89      A16S
ATOM   1095  P   U   A  56      141.883  45.919  13.215  1.00 45.66      A16S
ATOM   1096  O1P U   A  56      141.680  44.464  13.409  1.00 77.16      A16S
ATOM   1097  O2P U   A  56      141.156  46.623  12.119  1.00 77.16      A16S
ATOM   1098  O5* U   A  56      141.572  46.651  14.596  1.00 45.66      A16S
ATOM   1099  C5* U   A  56      141.833  46.001  15.849  1.00 45.66      A16S
ATOM   1100  C4* U   A  56      141.329  46.843  16.994  1.00 45.66      A16S
ATOM   1101  O4* U   A  56      142.192  47.992  17.179  1.00 45.66      A16S
ATOM   1102  C1* U   A  56      141.414  49.115  17.573  1.00 45.66      A16S
ATOM   1103  N1  U   A  56      141.555  50.176  16.558  1.00 77.16      A16S
ATOM   1104  C6  U   A  56      141.976  49.896  15.281  1.00 77.16      A16S
ATOM   1105  C2  U   A  56      141.250  51.472  16.930  1.00 77.16      A16S
ATOM   1106  O2  U   A  56      140.855  51.769  18.043  1.00 77.16      A16S
ATOM   1107  N3  U   A  56      141.417  52.407  15.948  1.00 77.16      A16S
ATOM   1108  C4  U   A  56      141.837  52.189  14.662  1.00 77.16      A16S
ATOM   1109  O4  U   A  56      141.924  53.137  13.888  1.00 77.16      A16S
ATOM   1110  C5  U   A  56      142.122  50.832  14.350  1.00 77.16      A16S
ATOM   1111  C2* U   A  56      139.968  48.645  17.730  1.00 45.66      A16S
ATOM   1112  O2* U   A  56      139.721  48.338  19.090  1.00 45.66      A16S
ATOM   1113  C3* U   A  56      139.942  47.429  16.813  1.00 45.66      A16S
ATOM   1114  O3* U   A  56      138.917  46.519  17.146  1.00 45.66      A16S
ATOM   1115  P   G   A  57      137.459  46.724  16.517  1.00 58.30      A16S
ATOM   1116  O1P G   A  57      136.662  45.497  16.723  1.00 66.35      A16S
ATOM   1117  O2P G   A  57      137.641  47.262  15.146  1.00 66.35      A16S
ATOM   1118  O5* G   A  57      136.799  47.857  17.416  1.00 58.30      A16S
ATOM   1119  C5* G   A  57      136.622  47.684  18.840  1.00 58.30      A16S
ATOM   1120  C4* G   A  57      136.101  48.962  19.453  1.00 58.30      A16S
ATOM   1121  O4* G   A  57      137.124  49.992  19.372  1.00 58.30      A16S
ATOM   1122  C1* G   A  57      136.526  51.237  19.037  1.00 58.30      A16S
ATOM   1123  N9  G   A  57      137.047  51.658  17.735  1.00 66.35      A16S
ATOM   1124  C4  G   A  57      137.075  52.940  17.230  1.00 66.35      A16S
ATOM   1125  N3  G   A  57      136.634  54.051  17.850  1.00 66.35      A16S
ATOM   1126  C2  G   A  57      136.813  55.129  17.112  1.00 66.35      A16S
ATOM   1127  N2  G   A  57      136.447  56.316  17.576  1.00 66.35      A16S
ATOM   1128  N1  G   A  57      137.363  55.124  15.866  1.00 66.35      A16S
ATOM   1129  C6  G   A  57      137.812  53.998  15.198  1.00 66.35      A16S
ATOM   1130  O6  G   A  57      138.271  54.104  14.054  1.00 66.35      A16S
ATOM   1131  C5  G   A  57      137.647  52.828  15.982  1.00 66.35      A16S
ATOM   1132  N7  G   A  57      137.974  51.507  15.705  1.00 66.35      A16S
ATOM   1133  C8  G   A  57      137.601  50.852  16.768  1.00 66.35      A16S
ATOM   1134  C2* G   A  57      135.010  51.028  19.025  1.00 58.30      A16S
ATOM   1135  O2* G   A  57      134.472  51.316  20.299  1.00 58.30      A16S
ATOM   1136  C3* G   A  57      134.909  49.546  18.716  1.00 58.30      A16S
ATOM   1137  O3* G   A  57      133.690  48.988  19.158  1.00 58.30      A16S
ATOM   1138  P   C   A  58      132.508  48.760  18.102  1.00 61.19      A16S
ATOM   1139  O1P C   A  58      131.427  47.994  18.791  1.00 44.26      A16S
ATOM   1140  O2P C   A  58      133.125  48.219  16.867  1.00 44.26      A16S
ATOM   1141  O5* C   A  58      131.961  50.230  17.815  1.00 61.19      A16S
ATOM   1142  C5* C   A  58      131.119  50.888  18.788  1.00 61.19      A16S
ATOM   1143  C4* C   A  58      130.965  52.360  18.478  1.00 61.19      A16S
ATOM   1144  O4* C   A  58      132.265  52.996  18.480  1.00 61.19      A16S
ATOM   1145  C1* C   A  58      132.298  54.015  17.502  1.00 61.19      A16S
ATOM   1146  N1  C   A  58      133.268  53.621  16.464  1.00 44.26      A16S
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ATOM   1147  C6  C   A  58     133.524  52.302  16.217  1.00 44.26      A16S
ATOM   1148  C2  C   A  58     133.914  54.617  15.709  1.00 44.26      A16S
ATOM   1149  O2  C   A  58     133.700  55.813  15.965  1.00 44.26      A16S
ATOM   1150  N3  C   A  58     134.756  54.250  14.724  1.00 44.26      A16S
ATOM   1151  C4  C   A  58     134.973  52.961  14.479  1.00 44.26      A16S
ATOM   1152  N4  C   A  58     135.792  52.652  13.481  1.00 44.26      A16S
ATOM   1153  C5  C   A  58     134.359  51.933  15.244  1.00 44.26      A16S
ATOM   1154  C2* C   A  58     130.888  54.130  16.925  1.00 61.19      A16S
ATOM   1155  O2* C   A  58     130.136  55.054  17.687  1.00 61.19      A16S
ATOM   1156  C3* C   A  58     130.359  52.725  17.135  1.00 61.19      A16S
ATOM   1157  O3* C   A  58     128.939  52.725  17.172  1.00 61.19      A16S
ATOM   1158  P   A   A  59     128.108  52.645  15.793  1.00 66.61      A16S
ATOM   1159  O1P A   A  59     126.664  52.687  16.183  1.00 96.18      A16S
ATOM   1160  O2P A   A  59     128.616  51.505  14.987  1.00 96.18      A16S
ATOM   1161  O5* A   A  59     128.501  53.981  15.013  1.00 66.61      A16S
ATOM   1162  C5* A   A  59     128.133  55.268  15.538  1.00 66.61      A16S
ATOM   1163  C4* A   A  59     128.524  56.369  14.583  1.00 66.61      A16S
ATOM   1164  O4* A   A  59     129.958  56.371  14.396  1.00 66.61      A16S
ATOM   1165  C1* A   A  59     130.268  56.832  13.098  1.00 66.61      A16S
ATOM   1166  N9  A   A  59     131.081  55.822  12.421  1.00 96.18      A16S
ATOM   1167  C4  A   A  59     131.408  55.802  11.089  1.00 96.18      A16S
ATOM   1168  N3  A   A  59     131.046  56.689  10.150  1.00 96.18      A16S
ATOM   1169  C2  A   A  59     131.550  56.350   8.967  1.00 96.18      A16S
ATOM   1170  N1  A   A  59     132.314  55.303   8.640  1.00 96.18      A16S
ATOM   1171  C6  A   A  59     132.657  54.430   9.608  1.00 96.18      A16S
ATOM   1172  N6  A   A  59     133.415  53.383   9.282  1.00 96.18      A16S
ATOM   1173  C5  A   A  59     132.188  54.679  10.908  1.00 96.18      A16S
ATOM   1174  N7  A   A  59     132.354  54.000  12.104  1.00 96.18      A16S
ATOM   1175  C8  A   A  59     131.678  54.715  12.967  1.00 96.18      A16S
ATOM   1176  C2* A   A  59     128.951  57.150  12.393  1.00 66.61      A16S
ATOM   1177  O2* A   A  59     128.695  58.523  12.563  1.00 66.61      A16S
ATOM   1178  C3* A   A  59     127.955  56.309  13.178  1.00 66.61      A16S
ATOM   1179  O3* A   A  59     126.653  56.883  13.136  1.00 66.61      A16S
ATOM   1180  P   A   A  60     125.769  56.767  11.794  1.00 25.39      A16S
ATOM   1181  O1P A   A  60     126.610  57.118  10.631  1.00 49.36      A16S
ATOM   1182  O2P A   A  60     124.471  57.463  12.010  1.00 49.36      A16S
ATOM   1183  O5* A   A  60     125.459  55.223  11.648  1.00 25.39      A16S
ATOM   1184  C5* A   A  60     124.746  54.536  12.670  1.00 25.39      A16S
ATOM   1185  C4* A   A  60     123.850  53.505  12.056  1.00 25.39      A16S
ATOM   1186  O4* A   A  60     122.716  54.166  11.452  1.00 25.39      A16S
ATOM   1187  C1* A   A  60     122.614  53.826  10.090  1.00 25.39      A16S
ATOM   1188  N9  A   A  60     122.295  55.070   9.387  1.00 49.36      A16S
ATOM   1189  C4  A   A  60     121.117  55.393   8.753  1.00 49.36      A16S
ATOM   1190  N3  A   A  60     120.035  54.616   8.592  1.00 49.36      A16S
ATOM   1191  C2  A   A  60     119.069  55.276   7.971  1.00 49.36      A16S
ATOM   1192  N1  A   A  60     119.056  56.527   7.530  1.00 49.36      A16S
ATOM   1193  C6  A   A  60     120.158  57.285   7.703  1.00 49.36      A16S
ATOM   1194  N6  A   A  60     120.135  58.549   7.273  1.00 49.36      A16S
ATOM   1195  C5  A   A  60     121.259  56.697   8.338  1.00 49.36      A16S
ATOM   1196  N7  A   A  60     122.518  57.179   8.657  1.00 49.36      A16S
ATOM   1197  C8  A   A  60     123.094  56.177   9.267  1.00 49.36      A16S
ATOM   1198  C2* A   A  60     123.950  53.225   9.660  1.00 25.39      A16S
ATOM   1199  O2* A   A  60     123.804  52.278   8.627  1.00 25.39      A16S
ATOM   1200  C3* A   A  60     124.520  52.689  10.971  1.00 25.39      A16S
ATOM   1201  O3* A   A  60     124.745  51.301  11.280  1.00 25.39      A16S
ATOM   1202  P   G   A  61     123.513  50.295  11.494  1.00 41.24      A16S
ATOM   1203  O1P G   A  61     124.123  48.963  11.739  1.00 41.17      A16S
ATOM   1204  O2P G   A  61     122.485  50.452  10.420  1.00 41.17      A16S
ATOM   1205  O5* G   A  61     122.878  50.781  12.867  1.00 41.24      A16S
ATOM   1206  C5* G   A  61     121.537  50.418  13.216  1.00 41.24      A16S
ATOM   1207  C4* G   A  61     120.612  51.576  12.962  1.00 41.24      A16S
ATOM   1208  O4* G   A  61     120.545  51.851  11.542  1.00 41.24      A16S
ATOM   1209  C1* G   A  61     119.236  52.276  11.200  1.00 41.24      A16S
ATOM   1210  N9  G   A  61     118.674  51.307  10.270  1.00 41.17      A16S
ATOM   1211  C4  G   A  61     117.464  51.389   9.628  1.00 41.17      A16S
ATOM   1212  N3  G   A  61     116.587  52.402   9.721  1.00 41.17      A16S
ATOM   1213  C2  G   A  61     115.514  52.186   8.986  1.00 41.17      A16S
ATOM   1214  N2  G   A  61     114.542  53.100   8.943  1.00 41.17      A16S
ATOM   1215  N1  G   A  61     115.316  51.061   8.238  1.00 41.17      A16S
ATOM   1216  C6  G   A  61     116.206  50.005   8.143  1.00 41.17      A16S
ATOM   1217  O6  G   A  61     115.925  49.023   7.457  1.00 41.17      A16S
ATOM   1218  C5  G   A  61     117.358  50.231   8.904  1.00 41.17      A16S
ATOM   1219  N7  G   A  61     118.480  49.441   9.072  1.00 41.17      A16S
ATOM   1220  C8  G   A  61     119.236  50.121   9.886  1.00 41.17      A16S
ATOM   1221  C2* G   A  61     118.416  52.314  12.485  1.00 41.24      A16S
ATOM   1222  O2* G   A  61     118.420  53.614  13.031  1.00 41.24      A16S
ATOM   1223  C3* G   A  61     119.174  51.322  13.339  1.00 41.24      A16S
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ATOM   1224  O3* G   A  61     118.981  51.510  14.705  1.00 41.24      A16S
ATOM   1225  P   U   A  62     118.238  50.370  15.536  1.00 31.37      A16S
ATOM   1226  O1P U   A  62     118.439  49.072  14.853  1.00 36.57      A16S
ATOM   1227  O2P U   A  62     118.650  50.530  16.955  1.00 36.57      A16S
ATOM   1228  O5* U   A  62     116.704  50.713  15.347  1.00 31.37      A16S
ATOM   1229  C5* U   A  62     116.244  52.048  15.503  1.00 31.37      A16S
ATOM   1230  C4* U   A  62     114.934  52.204  14.809  1.00 31.37      A16S
ATOM   1231  O4* U   A  62     115.121  52.131  13.384  1.00 31.37      A16S
ATOM   1232  C1* U   A  62     114.056  51.426  12.795  1.00 31.37      A16S
ATOM   1233  N1  U   A  62     114.635  50.289  12.081  1.00 36.57      A16S
ATOM   1234  C6  U   A  62     115.850  49.757  12.455  1.00 36.57      A16S
ATOM   1235  C2  U   A  62     113.919  49.771  11.029  1.00 36.57      A16S
ATOM   1236  O2  U   A  62     112.856  50.244  10.659  1.00 36.57      A16S
ATOM   1237  N3  U   A  62     114.495  48.682  10.423  1.00 36.57      A16S
ATOM   1238  C4  U   A  62     115.702  48.087  10.756  1.00 36.57      A16S
ATOM   1239  O4  U   A  62     116.082  47.090  10.133  1.00 36.57      A16S
ATOM   1240  C5  U   A  62     116.393  48.709  11.845  1.00 36.57      A16S
ATOM   1241  C2* U   A  62     113.086  51.016  13.900  1.00 31.37      A16S
ATOM   1242  O2* U   A  62     111.999  51.903  13.900  1.00 31.37      A16S
ATOM   1243  C3* U   A  62     113.981  51.086  15.135  1.00 31.37      A16S
ATOM   1244  O3* U   A  62     113.351  51.419  16.353  1.00 31.37      A16S
ATOM   1245  P   C   A  63     112.346  50.392  17.028  1.00 32.42      A16S
ATOM   1246  O1P C   A  63     112.863  49.031  16.753  1.00 30.61      A16S
ATOM   1247  O2P C   A  63     112.087  50.815  18.430  1.00 30.61      A16S
ATOM   1248  O5* C   A  63     111.036  50.606  16.173  1.00 32.42      A16S
ATOM   1249  C5* C   A  63     110.076  49.601  16.146  1.00 32.42      A16S
ATOM   1250  C4* C   A  63     109.124  49.818  15.022  1.00 32.42      A16S
ATOM   1251  O4* C   A  63     109.818  50.013  13.770  1.00 32.42      A16S
ATOM   1252  C1* C   A  63     109.164  49.270  12.750  1.00 32.42      A16S
ATOM   1253  N1  C   A  63     110.119  48.288  12.193  1.00 30.61      A16S
ATOM   1254  C6  C   A  63     111.330  48.069  12.792  1.00 30.61      A16S
ATOM   1255  C2  C   A  63     109.782  47.604  11.016  1.00 30.61      A16S
ATOM   1256  O2  C   A  63     108.648  47.775  10.523  1.00 30.61      A16S
ATOM   1257  N3  C   A  63     110.695  46.777  10.451  1.00 30.61      A16S
ATOM   1258  C4  C   A  63     111.893  46.620  11.022  1.00 30.61      A16S
ATOM   1259  N4  C   A  63     112.785  45.855  10.407  1.00 30.61      A16S
ATOM   1260  C5  C   A  63     112.237  47.256  12.243  1.00 30.61      A16S
ATOM   1261  C2* C   A  63     107.914  48.633  13.359  1.00 32.42      A16S
ATOM   1262  O2* C   A  63     106.787  49.462  13.122  1.00 32.42      A16S
ATOM   1263  C3* C   A  63     108.314  48.563  14.823  1.00 32.42      A16S
ATOM   1264  O3* C   A  63     107.278  48.557  15.773  1.00 32.42      A16S
ATOM   1265  P   G   A  64     107.370  47.546  17.007  1.00 53.66      A16S
ATOM   1266  O1P G   A  64     106.300  47.982  17.920  1.00 42.77      A16S
ATOM   1267  O2P G   A  64     108.771  47.435  17.516  1.00 42.77      A16S
ATOM   1268  O5* G   A  64     106.924  46.172  16.342  1.00 53.66      A16S
ATOM   1269  C5* G   A  64     105.695  46.088  15.584  1.00 53.66      A16S
ATOM   1270  C4* G   A  64     104.903  44.882  16.022  1.00 53.66      A16S
ATOM   1271  O4* G   A  64     105.568  43.678  15.559  1.00 53.66      A16S
ATOM   1272  C1* G   A  64     105.906  42.876  16.666  1.00 53.66      A16S
ATOM   1273  N9  G   A  64     107.174  42.218  16.383  1.00 42.77      A16S
ATOM   1274  C4  G   A  64     107.336  41.040  15.702  1.00 42.77      A16S
ATOM   1275  N3  G   A  64     106.351  40.293  15.164  1.00 42.77      A16S
ATOM   1276  C2  G   A  64     106.821  39.202  14.597  1.00 42.77      A16S
ATOM   1277  N2  G   A  64     105.981  38.342  14.009  1.00 42.77      A16S
ATOM   1278  N1  G   A  64     108.149  38.879  14.566  1.00 42.77      A16S
ATOM   1279  C6  G   A  64     109.171  39.645  15.109  1.00 42.77      A16S
ATOM   1280  O6  G   A  64     110.333  39.275  15.022  1.00 42.77      A16S
ATOM   1281  C5  G   A  64     108.688  40.799  15.710  1.00 42.77      A16S
ATOM   1282  N7  G   A  64     109.368  41.810  16.365  1.00 42.77      A16S
ATOM   1283  C8  G   A  64     108.430  42.631  16.747  1.00 42.77      A16S
ATOM   1284  C2* G   A  64     105.910  43.796  17.885  1.00 53.66      A16S
ATOM   1285  O2* G   A  64     105.695  43.079  19.080  1.00 53.66      A16S
ATOM   1286  C3* G   A  64     104.783  44.759  17.535  1.00 53.66      A16S
ATOM   1287  O3* G   A  64     103.531  44.173  17.860  1.00 53.66      A16S
ATOM   1288  P   U   A  65     102.327  45.101  18.360  1.00 53.04      A16S
ATOM   1289  O1P U   A  65     101.217  44.182  18.717  1.00 92.00      A16S
ATOM   1290  O2P U   A  65     102.836  46.073  19.368  1.00 92.00      A16S
ATOM   1291  O5* U   A  65     101.909  45.908  17.055  1.00 53.04      A16S
ATOM   1292  C5* U   A  65     101.365  45.225  15.922  1.00 53.04      A16S
ATOM   1293  C4* U   A  65     101.012  46.211  14.839  1.00 53.04      A16S
ATOM   1294  O4* U   A  65      99.942  47.089  15.284  1.00 53.04      A16S
ATOM   1295  C1* U   A  65     100.315  48.426  15.047  1.00 53.04      A16S
ATOM   1296  N1  U   A  65      99.646  49.302  16.017  1.00 92.00      A16S
ATOM   1297  C6  U   A  65      99.805  49.153  17.371  1.00 92.00      A16S
ATOM   1298  C2  U   A  65      98.841  50.300  15.501  1.00 92.00      A16S
ATOM   1299  O2  U   A  65      98.655  50.452  14.300  1.00 92.00      A16S
ATOM   1300  N3  U   A  65      98.254  51.111  16.434  1.00 92.00      A16S
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ATOM   1301  C4  U   A  65      98.377  51.025  17.797  1.00 92.00      A16S
ATOM   1302  O4  U   A  65      97.802  51.853  18.505  1.00 92.00      A16S
ATOM   1303  C5  U   A  65      99.212  49.956  18.255  1.00 92.00      A16S
ATOM   1304  C2* U   A  65     101.841  48.448  15.045  1.00 53.04      A16S
ATOM   1305  O2* U   A  65     102.329  49.565  14.316  1.00 53.04      A16S
ATOM   1306  C3* U   A  65     102.143  47.117  14.362  1.00 53.04      A16S
ATOM   1307  O3* U   A  65     101.971  47.313  12.971  1.00 53.04      A16S
ATOM   1308  P   G   A  66     102.979  46.633  11.937  1.00 47.25      A16S
ATOM   1309  O1P G   A  66     104.168  46.118  12.664  1.00 31.46      A16S
ATOM   1310  O2P G   A  66     103.153  47.621  10.843  1.00 31.46      A16S
ATOM   1311  O5* G   A  66     102.154  45.402  11.363  1.00 47.25      A16S
ATOM   1312  C5* G   A  66     100.904  45.605  10.681  1.00 47.25      A16S
ATOM   1313  C4* G   A  66     100.917  44.872   9.369  1.00 47.25      A16S
ATOM   1314  O4* G   A  66     101.991  45.407   8.560  1.00 47.25      A16S
ATOM   1315  C1* G   A  66     102.641  44.360   7.861  1.00 47.25      A16S
ATOM   1316  N9  G   A  66     103.998  44.255   8.386  1.00 31.46      A16S
ATOM   1317  C4  G   A  66     104.900  43.246   8.147  1.00 31.46      A16S
ATOM   1318  N3  G   A  66     104.697  42.171   7.359  1.00 31.46      A16S
ATOM   1319  C2  G   A  66     105.746  41.365   7.356  1.00 31.46      A16S
ATOM   1320  N2  G   A  66     105.725  40.256   6.615  1.00 31.46      A16S
ATOM   1321  N1  G   A  66     106.897  41.595   8.074  1.00 31.46      A16S
ATOM   1322  C6  G   A  66     107.123  42.703   8.878  1.00 31.46      A16S
ATOM   1323  O6  G   A  66     108.192  42.832   9.463  1.00 31.46      A16S
ATOM   1324  C5  G   A  66     106.016  43.569   8.891  1.00 31.46      A16S
ATOM   1325  N7  G   A  66     105.828  44.763   9.569  1.00 31.46      A16S
ATOM   1326  C8  G   A  66     104.623  45.136   9.236  1.00 31.46      A16S
ATOM   1327  C2* G   A  66     101.846  43.086   8.124  1.00 47.25      A16S
ATOM   1328  O2* G   A  66     100.857  42.914   7.126  1.00 47.25      A16S
ATOM   1329  C3* G   A  66     101.241  43.395   9.479  1.00 47.25      A16S
ATOM   1330  O3* G   A  66     100.102  42.608   9.758  1.00 47.25      A16S
ATOM   1331  P   C   A  67     100.239  41.361  10.759  1.00 45.58      A16S
ATOM   1332  O1P C   A  67      98.884  40.772  10.876  1.00 18.71      A16S
ATOM   1333  O2P C   A  67     100.962  41.794  11.969  1.00 18.71      A16S
ATOM   1334  O5* C   A  67     101.191  40.343   9.997  1.00 45.58      A16S
ATOM   1335  C5* C   A  67     100.759  39.722   8.782  1.00 45.58      A16S
ATOM   1336  C4* C   A  67     101.709  38.618   8.386  1.00 45.58      A16S
ATOM   1337  O4* C   A  67     103.005  39.167   8.043  1.00 45.58      A16S
ATOM   1338  C1* C   A  67     104.008  38.220   8.336  1.00 45.58      A16S
ATOM   1339  N1  C   A  67     104.960  38.792   9.289  1.00 18.71      A16S
ATOM   1340  C6  C   A  67     104.636  39.846  10.086  1.00 18.71      A16S
ATOM   1341  C2  C   A  67     106.230  38.225   9.355  1.00 18.71      A16S
ATOM   1342  O2  C   A  67     106.484  37.232   8.639  1.00 18.71      A16S
ATOM   1343  N3  C   A  67     107.148  38.748  10.191  1.00 18.71      A16S
ATOM   1344  C4  C   A  67     106.830  39.776  10.958  1.00 18.71      A16S
ATOM   1345  N4  C   A  67     107.770  40.243  11.768  1.00 18.71      A16S
ATOM   1346  C5  C   A  67     105.535  40.365  10.928  1.00 18.71      A16S
ATOM   1347  C2* C   A  67     103.331  36.987   8.905  1.00 45.58      A16S
ATOM   1348  O2* C   A  67     103.106  36.113   7.824  1.00 45.58      A16S
ATOM   1349  C3* C   A  67     102.039  37.580   9.441  1.00 45.58      A16S
ATOM   1350  O3* C   A  67     101.024  36.606   9.578  1.00 45.58      A16S
ATOM   1351  P   G   A  68     100.911  35.782  10.946  1.00 56.99      A16S
ATOM   1352  O1P G   A  68      99.539  35.222  10.920  1.00 35.37      A16S
ATOM   1353  O2P G   A  68     101.353  36.612  12.097  1.00 35.37      A16S
ATOM   1354  O5* G   A  68     101.982  34.621  10.769  1.00 56.99      A16S
ATOM   1355  C5* G   A  68     101.885  33.719   9.665  1.00 56.99      A16S
ATOM   1356  C4* G   A  68     103.124  32.881   9.575  1.00 56.99      A16S
ATOM   1357  O4* G   A  68     104.246  33.707   9.192  1.00 56.99      A16S
ATOM   1358  C1* G   A  68     105.433  33.208   9.784  1.00 56.99      A16S
ATOM   1359  N9  G   A  68     106.009  34.233  10.648  1.00 35.37      A16S
ATOM   1360  C4  G   A  68     107.334  34.373  10.961  1.00 35.37      A16S
ATOM   1361  N3  G   A  68     108.341  33.610  10.496  1.00 35.37      A16S
ATOM   1362  C2  G   A  68     109.510  33.979  11.000  1.00 35.37      A16S
ATOM   1363  N2  G   A  68     110.635  33.337  10.646  1.00 35.37      A16S
ATOM   1364  N1  G   A  68     109.668  35.004  11.889  1.00 35.37      A16S
ATOM   1365  C6  G   A  68     108.641  35.794  12.379  1.00 35.37      A16S
ATOM   1366  O6  G   A  68     108.890  36.680  13.191  1.00 35.37      A16S
ATOM   1367  C5  G   A  68     107.392  35.422  11.842  1.00 35.37      A16S
ATOM   1368  N7  G   A  68     106.132  35.950  12.062  1.00 35.37      A16S
ATOM   1369  C8  G   A  68     105.343  35.217  11.331  1.00 35.37      A16S
ATOM   1370  C2* G   A  68     105.051  31.977  10.593  1.00 56.99      A16S
ATOM   1371  O2* G   A  68     105.279  30.836   9.791  1.00 56.99      A16S
ATOM   1372  C3* G   A  68     103.574  32.236  10.866  1.00 56.99      A16S
ATOM   1373  O3* G   A  68     102.849  31.055  11.145  1.00 56.99      A16S
ATOM   1374  P   G   A  69     103.219  30.193  12.445  1.00 55.51      A16S
ATOM   1375  O1P G   A  69     102.345  28.998  12.398  1.00 51.35      A16S
ATOM   1376  O2P G   A  69     103.200  31.066  13.638  1.00 51.35      A16S
ATOM   1377  O5* G   A  69     104.724  29.755  12.159  1.00 55.51      A16S
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ATOM   1378  C5* G   A  69     105.646  29.462  13.220  1.00 55.51      A16S
ATOM   1379  C4* G   A  69     107.055  29.430  12.679  1.00 55.51      A16S
ATOM   1380  O4* G   A  69     107.441  30.769  12.264  1.00 55.51      A16S
ATOM   1381  C1* G   A  69     108.814  30.993  12.558  1.00 55.51      A16S
ATOM   1382  N9   G   A  69     108.912  32.088  13.518  1.00 51.35      A16S
ATOM   1383  C4   G   A  69     110.058  32.571  14.097  1.00 51.35      A16S
ATOM   1384  N3   G   A  69     111.313  32.146  13.848  1.00 51.35      A16S
ATOM   1385  C2   G   A  69     112.204  32.792  14.586  1.00 51.35      A16S
ATOM   1386  N2   G   A  69     113.512  32.501  14.466  1.00 51.35      A16S
ATOM   1387  N1   G   A  69     111.876  33.770  15.494  1.00 51.35      A16S
ATOM   1388  C6   G   A  69     110.583  34.210  15.760  1.00 51.35      A16S
ATOM   1389  O6   G   A  69     110.385  35.083  16.606  1.00 51.35      A16S
ATOM   1390  C5   G   A  69     109.638  33.541  14.979  1.00 51.35      A16S
ATOM   1391  N7   G   A  69     108.264  33.688  14.934  1.00 51.35      A16S
ATOM   1392  C8   G   A  69     107.877  32.815  14.048  1.00 51.35      A16S
ATOM   1393  C2* G   A  69     109.377  29.697  13.140  1.00 55.51      A16S
ATOM   1394  O2* G   A  69     110.041  28.986  12.111  1.00 55.51      A16S
ATOM   1395  C3* G   A  69     108.115  29.030  13.686  1.00 55.51      A16S
ATOM   1396  O3* G   A  69     108.207  27.617  13.819  1.00 55.51      A16S
ATOM   1397  P    G   A  70     108.628  26.980  15.236  1.00 59.55      A16S
ATOM   1398  O1P G   A  70     108.430  25.526  15.112  1.00 39.05      A16S
ATOM   1399  O2P G   A  70     107.957  27.717  16.340  1.00 39.05      A16S
ATOM   1400  O5* G   A  70     110.194  27.240  15.332  1.00 59.55      A16S
ATOM   1401  C5* G   A  70     111.094  26.564  14.446  1.00 59.55      A16S
ATOM   1402  C4* G   A  70     112.516  26.834  14.847  1.00 59.55      A16S
ATOM   1403  O4* G   A  70     112.817  28.235  14.643  1.00 59.55      A16S
ATOM   1404  C1* G   A  70     113.679  28.695  15.669  1.00 59.55      A16S
ATOM   1405  N9   G   A  70     112.980  29.726  16.426  1.00 39.05      A16S
ATOM   1406  C4   G   A  70     113.560  30.672  17.225  1.00 39.05      A16S
ATOM   1407  N3   G   A  70     114.876  30.795  17.468  1.00 39.05      A16S
ATOM   1408  C2   G   A  70     115.135  31.809  18.270  1.00 39.05      A16S
ATOM   1409  N2   G   A  70     116.400  32.076  18.630  1.00 39.05      A16S
ATOM   1410  N1   G   A  70     114.177  32.640  18.784  1.00 39.05      A16S
ATOM   1411  C6   G   A  70     112.816  32.536  18.543  1.00 39.05      A16S
ATOM   1412  O6   G   A  70     112.037  33.354  19.051  1.00 39.05      A16S
ATOM   1413  C5   G   A  70     112.522  31.442  17.695  1.00 39.05      A16S
ATOM   1414  N7   G   A  70     111.306  30.972  17.221  1.00 39.05      A16S
ATOM   1415  C8   G   A  70     111.625  29.952  16.476  1.00 39.05      A16S
ATOM   1416  C2* G   A  70     114.025  27.500  16.545  1.00 59.55      A16S
ATOM   1417  O2* G   A  70     115.205  26.907  16.056  1.00 59.55      A16S
ATOM   1418  C3* G   A  70     112.820  26.608  16.314  1.00 59.55      A16S
ATOM   1419  O3* G   A  70     113.099  25.260  16.607  1.00 59.55      A16S
ATOM   1420  P    C   A  73     112.834  24.716  18.091  1.00 65.71      A16S
ATOM   1421  O1P C   A  73     113.297  23.300  18.088  1.00 57.32      A16S
ATOM   1422  O2P C   A  73     111.426  25.037  18.487  1.00 57.32      A16S
ATOM   1423  O5* C   A  73     113.817  25.587  18.992  1.00 65.71      A16S
ATOM   1424  C5* C   A  73     115.237  25.413  18.903  1.00 65.71      A16S
ATOM   1425  C4* C   A  73     115.937  26.411  19.784  1.00 65.71      A16S
ATOM   1426  O4* C   A  73     115.618  27.744  19.321  1.00 65.71      A16S
ATOM   1427  C1* C   A  73     115.504  28.623  20.425  1.00 65.71      A16S
ATOM   1428  N1   C   A  73     114.123  29.128  20.477  1.00 57.32      A16S
ATOM   1429  C6   C   A  73     113.082  28.404  19.962  1.00 57.32      A16S
ATOM   1430  C2   C   A  73     113.891  30.361  21.070  1.00 57.32      A16S
ATOM   1431  O2   C   A  73     114.856  30.987  21.533  1.00 57.32      A16S
ATOM   1432  N3   C   A  73     112.623  30.842  21.129  1.00 57.32      A16S
ATOM   1433  C4   C   A  73     111.615  30.130  20.622  1.00 57.32      A16S
ATOM   1434  N4   C   A  73     110.387  30.638  20.695  1.00 57.32      A16S
ATOM   1435  C5   C   A  73     111.824  28.864  20.014  1.00 57.32      A16S
ATOM   1436  C2* C   A  73     115.857  27.834  21.679  1.00 65.71      A16S
ATOM   1437  O2* C   A  73     117.229  28.024  21.962  1.00 65.71      A16S
ATOM   1438  C3* C   A  73     115.512  26.417  21.241  1.00 65.71      A16S
ATOM   1439  O3* C   A  73     116.156  25.414  22.006  1.00 65.71      A16S
ATOM   1440  P    C   A  74     115.366  24.728  23.225  1.00 75.30      A16S
ATOM   1441  O1P C   A  74     116.259  23.669  23.722  1.00 49.38      A16S
ATOM   1442  O2P C   A  74     113.975  24.385  22.808  1.00 49.38      A16S
ATOM   1443  O5* C   A  74     115.306  25.878  24.321  1.00 75.30      A16S
ATOM   1444  C5* C   A  74     116.514  26.363  24.903  1.00 75.30      A16S
ATOM   1445  C4* C   A  74     116.229  27.483  25.861  1.00 75.30      A16S
ATOM   1446  O4* C   A  74     115.819  28.674  25.142  1.00 75.30      A16S
ATOM   1447  C1* C   A  74     114.914  29.418  25.942  1.00 75.30      A16S
ATOM   1448  N1   C   A  74     113.623  29.511  25.240  1.00 49.38      A16S
ATOM   1449  C6   C   A  74     113.305  28.635  24.242  1.00 49.38      A16S
ATOM   1450  C2   C   A  74     112.705  30.511  25.622  1.00 49.38      A16S
ATOM   1451  O2   C   A  74     113.013  31.296  26.524  1.00 49.38      A16S
ATOM   1452  N3   C   A  74     111.508  30.587  25.001  1.00 49.38      A16S
ATOM   1453  C4   C   A  74     111.203  29.716  24.039  1.00 49.38      A16S
ATOM   1454  N4   C   A  74     110.001  29.808  23.468  1.00 49.38      A16S
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ATOM   1455  C5  C   A  74     112.117  28.701  23.621  1.00 49.38      A16S
ATOM   1456  C2* C   A  74     114.753  28.677  27.268  1.00 75.30      A16S
ATOM   1457  O2* C   A  74     115.643  29.238  28.218  1.00 75.30      A16S
ATOM   1458  C3* C   A  74     115.116  27.250  26.866  1.00 75.30      A16S
ATOM   1459  O3* C   A  74     115.522  26.445  27.969  1.00 75.30      A16S
ATOM   1460  P   G   A  75     114.484  25.393  28.610  1.00 88.54      A16S
ATOM   1461  O1P G   A  75     115.270  24.732  29.677  1.00 59.44      A16S
ATOM   1462  O2P G   A  75     113.856  24.565  27.547  1.00 59.44      A16S
ATOM   1463  O5* G   A  75     113.358  26.310  29.277  1.00 88.54      A16S
ATOM   1464  C5* G   A  75     113.677  27.066  30.453  1.00 88.54      A16S
ATOM   1465  C4* G   A  75     112.549  27.991  30.873  1.00 88.54      A16S
ATOM   1466  O4* G   A  75     112.296  29.017  29.879  1.00 88.54      A16S
ATOM   1467  C1* G   A  75     111.034  29.609  30.146  1.00 88.54      A16S
ATOM   1468  N9  G   A  75     110.191  29.580  28.955  1.00 59.44      A16S
ATOM   1469  C4  G   A  75     109.079  30.362  28.757  1.00 59.44      A16S
ATOM   1470  N3  G   A  75     108.618  31.304  29.603  1.00 59.44      A16S
ATOM   1471  C2  G   A  75     107.512  31.868  29.161  1.00 59.44      A16S
ATOM   1472  N2  G   A  75     106.917  32.833  29.888  1.00 59.44      A16S
ATOM   1473  N1  G   A  75     106.905  31.532  27.978  1.00 59.44      A16S
ATOM   1474  C6  G   A  75     107.362  30.570  27.088  1.00 59.44      A16S
ATOM   1475  O6  G   A  75     106.734  30.350  26.045  1.00 59.44      A16S
ATOM   1476  C5  G   A  75     108.554  29.956  27.553  1.00 59.44      A16S
ATOM   1477  N7  G   A  75     109.333  28.953  26.989  1.00 59.44      A16S
ATOM   1478  C8  G   A  75     110.296  28.768  27.852  1.00 59.44      A16S
ATOM   1479  C2* G   A  75     110.373  28.788  31.250  1.00 88.54      A16S
ATOM   1480  O2* G   A  75     110.562  29.470  32.474  1.00 88.54      A16S
ATOM   1481  C3* G   A  75     111.153  27.476  31.188  1.00 88.54      A16S
ATOM   1482  O3* G   A  75     111.041  26.794  32.436  1.00 88.54      A16S
ATOM   1483  P   C   A  76     109.686  25.978  32.783  1.00 61.77      A16S
ATOM   1484  O1P C   A  76     109.911  25.351  34.105  1.00 68.38      A16S
ATOM   1485  O2P C   A  76     109.254  25.127  31.634  1.00 68.38      A16S
ATOM   1486  O5* C   A  76     108.598  27.125  32.974  1.00 61.77      A16S
ATOM   1487  C5* C   A  76     108.740  28.093  34.021  1.00 61.77      A16S
ATOM   1488  C4* C   A  76     107.559  29.029  34.036  1.00 61.77      A16S
ATOM   1489  O4* C   A  76     107.555  29.857  32.844  1.00 61.77      A16S
ATOM   1490  C1* C   A  76     106.216  30.122  32.450  1.00 61.77      A16S
ATOM   1491  N1  C   A  76     105.985  29.521  31.124  1.00 68.38      A16S
ATOM   1492  C6  C   A  76     106.856  28.604  30.610  1.00 68.38      A16S
ATOM   1493  C2  C   A  76     104.848  29.901  30.393  1.00 68.38      A16S
ATOM   1494  O2  C   A  76     104.064  30.729  30.881  1.00 68.38      A16S
ATOM   1495  N3  C   A  76     104.632  29.353  29.179  1.00 68.38      A16S
ATOM   1496  C4  C   A  76     105.494  28.460  28.689  1.00 68.38      A16S
ATOM   1497  N4  C   A  76     105.246  27.945  27.485  1.00 68.38      A16S
ATOM   1498  C5  C   A  76     106.650  28.054  29.411  1.00 68.38      A16S
ATOM   1499  C2* C   A  76     105.308  29.487  33.494  1.00 61.77      A16S
ATOM   1500  O2* C   A  76     105.004  30.441  34.493  1.00 61.77      A16S
ATOM   1501  C3* C   A  76     106.197  28.372  34.009  1.00 61.77      A16S
ATOM   1502  O3* C   A  76     105.779  27.862  35.249  1.00 61.77      A16S
ATOM   1503  P   G   A  77     104.751  26.634  35.261  1.00 43.62      A16S
ATOM   1504  O1P G   A  77     104.701  26.111  36.656  1.00 57.01      A16S
ATOM   1505  O2P G   A  77     105.082  25.703  34.138  1.00 57.01      A16S
ATOM   1506  O5* G   A  77     103.368  27.330  34.903  1.00 43.62      A16S
ATOM   1507  C5* G   A  77     102.879  28.419  35.686  1.00 43.62      A16S
ATOM   1508  C4* G   A  77     101.612  28.954  35.086  1.00 43.62      A16S
ATOM   1509  O4* G   A  77     101.901  29.586  33.818  1.00 43.62      A16S
ATOM   1510  C1* G   A  77     100.823  29.380  32.920  1.00 43.62      A16S
ATOM   1511  N9  G   A  77     101.310  28.607  31.782  1.00 57.01      A16S
ATOM   1512  C4  G   A  77     100.644  28.397  30.607  1.00 57.01      A16S
ATOM   1513  N3  G   A  77      99.452  28.920  30.277  1.00 57.01      A16S
ATOM   1514  C2  G   A  77      99.062  28.539  29.078  1.00 57.01      A16S
ATOM   1515  N2  G   A  77      97.917  29.009  28.577  1.00 57.01      A16S
ATOM   1516  N1  G   A  77      99.770  27.677  28.276  1.00 57.01      A16S
ATOM   1517  C6  G   A  77     100.996  27.109  28.604  1.00 57.01      A16S
ATOM   1518  O6  G   A  77     101.541  26.318  27.820  1.00 57.01      A16S
ATOM   1519  C5  G   A  77     101.445  27.549  29.877  1.00 57.01      A16S
ATOM   1520  N7  G   A  77     102.614  27.263  30.566  1.00 57.01      A16S
ATOM   1521  C8  G   A  77     102.493  27.916  31.687  1.00 57.01      A16S
ATOM   1522  C2* G   A  77      99.749  28.608  33.678  1.00 43.62      A16S
ATOM   1523  O2* G   A  77      98.844  29.513  34.269  1.00 43.62      A16S
ATOM   1524  C3* G   A  77     100.577  27.913  34.738  1.00 43.62      A16S
ATOM   1525  O3* G   A  77      99.799  27.553  35.833  1.00 43.62      A16S
ATOM   1526  P   G   A  78      99.091  26.132  35.829  1.00 36.83      A16S
ATOM   1527  O1P G   A  78      98.532  25.988  37.196  1.00 53.93      A16S
ATOM   1528  O2P G   A  78     100.045  25.117  35.316  1.00 53.93      A16S
ATOM   1529  O5* G   A  78      97.933  26.287  34.752  1.00 36.83      A16S
ATOM   1530  C5* G   A  78      96.881  27.208  34.984  1.00 36.83      A16S
ATOM   1531  C4* G   A  78      95.936  27.250  33.816  1.00 36.83      A16S
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ATOM   1532  O4* G   A  78      96.624  27.739  32.642  1.00 36.83      A16S
ATOM   1533  C1* G   A  78      96.037  27.184  31.484  1.00 36.83      A16S
ATOM   1534  N9  G   A  78      97.047  26.392  30.792  1.00 53.93      A16S
ATOM   1535  C4  G   A  78      96.966  25.935  29.501  1.00 53.93      A16S
ATOM   1536  N3  G   A  78      95.948  26.161  28.648  1.00 53.93      A16S
ATOM   1537  C2  G   A  78      96.151  25.591  27.484  1.00 53.93      A16S
ATOM   1538  N2  G   A  78      95.239  25.719  26.513  1.00 53.93      A16S
ATOM   1539  N1  G   A  78      97.262  24.854  27.183  1.00 53.93      A16S
ATOM   1540  C6  G   A  78      98.320  24.607  28.048  1.00 53.93      A16S
ATOM   1541  O6  G   A  78      99.276  23.921  27.674  1.00 53.93      A16S
ATOM   1542  C5  G   A  78      98.119  25.216  29.294  1.00 53.93      A16S
ATOM   1543  N7  G   A  78      98.920  25.228  30.427  1.00 53.93      A16S
ATOM   1544  C8  G   A  78      98.246  25.939  31.289  1.00 53.93      A16S
ATOM   1545  C2* G   A  78      94.877  26.304  31.938  1.00 36.83      A16S
ATOM   1546  O2* G   A  78      93.672  27.050  31.902  1.00 36.83      A16S
ATOM   1547  C3* G   A  78      95.299  25.953  33.357  1.00 36.83      A16S
ATOM   1548  O3* G   A  78      94.176  25.579  34.145  1.00 36.83      A16S
ATOM   1549  P   G   A  79      93.548  24.110  33.972  1.00 45.00      A16S
ATOM   1550  O1P G   A  79      94.688  23.149  33.857  1.00 46.27      A16S
ATOM   1551  O2P G   A  79      92.491  23.890  35.004  1.00 46.27      A16S
ATOM   1552  O5* G   A  79      92.831  24.199  32.558  1.00 45.00      A16S
ATOM   1553  C5* G   A  79      92.479  23.017  31.845  1.00 45.00      A16S
ATOM   1554  C4* G   A  79      92.123  23.369  30.435  1.00 45.00      A16S
ATOM   1555  O4* G   A  79      93.277  23.956  29.800  1.00 45.00      A16S
ATOM   1556  C1* G   A  79      93.365  23.515  28.461  1.00 45.00      A16S
ATOM   1557  N9  G   A  79      94.615  22.770  28.332  1.00 46.27      A16S
ATOM   1558  C4  G   A  79      94.969  21.913  27.319  1.00 46.27      A16S
ATOM   1559  N3  G   A  79      94.218  21.601  26.248  1.00 46.27      A16S
ATOM   1560  C2  G   A  79      94.828  20.749  25.452  1.00 46.27      A16S
ATOM   1561  N2  G   A  79      94.224  20.331  24.340  1.00 46.27      A16S
ATOM   1562  N1  G   A  79      96.073  20.241  25.685  1.00 46.27      A16S
ATOM   1563  C6  G   A  79      96.860  20.537  26.788  1.00 46.27      A16S
ATOM   1564  O6  G   A  79      97.967  19.996  26.920  1.00 46.27      A16S
ATOM   1565  C5  G   A  79      96.223  21.460  27.646  1.00 46.27      A16S
ATOM   1566  N7  G   A  79      96.655  22.022  28.837  1.00 46.27      A16S
ATOM   1567  C8  G   A  79      95.672  22.789  29.207  1.00 46.27      A16S
ATOM   1568  C2* G   A  79      92.114  22.681  28.172  1.00 45.00      A16S
ATOM   1569  O2* G   A  79      91.099  23.500  27.614  1.00 45.00      A16S
ATOM   1570  C3* G   A  79      91.764  22.186  29.565  1.00 45.00      A16S
ATOM   1571  O3* G   A  79      90.402  21.848  29.728  1.00 45.00      A16S
ATOM   1572  P   G   A  80      90.018  20.372  30.207  1.00 59.93      A16S
ATOM   1573  O1P G   A  80      88.622  20.415  30.708  1.00 62.39      A16S
ATOM   1574  O2P G   A  80      91.095  19.875  31.093  1.00 62.39      A16S
ATOM   1575  O5* G   A  80      90.048  19.551  28.850  1.00 59.93      A16S
ATOM   1576  C5* G   A  80      89.109  19.861  27.815  1.00 59.93      A16S
ATOM   1577  C4* G   A  80      89.258  18.902  26.666  1.00 59.93      A16S
ATOM   1578  O4* G   A  80      90.445  19.226  25.902  1.00 59.93      A16S
ATOM   1579  C1* G   A  80      91.083  18.037  25.489  1.00 59.93      A16S
ATOM   1580  N9  G   A  80      92.383  18.018  26.155  1.00 62.39      A16S
ATOM   1581  C4  G   A  80      93.559  17.460  25.699  1.00 62.39      A16S
ATOM   1582  N3  G   A  80      93.741  16.830  24.520  1.00 62.39      A16S
ATOM   1583  C2  G   A  80      94.984  16.393  24.382  1.00 62.39      A16S
ATOM   1584  N2  G   A  80      95.354  15.763  23.265  1.00 62.39      A16S
ATOM   1585  N1  G   A  80      95.962  16.545  25.327  1.00 62.39      A16S
ATOM   1586  C6  G   A  80      95.804  17.191  26.543  1.00 62.39      A16S
ATOM   1587  O6  G   A  80      96.760  17.273  27.326  1.00 62.39      A16S
ATOM   1588  C5  G   A  80      94.479  17.682  26.702  1.00 62.39      A16S
ATOM   1589  N7  G   A  80      93.904  18.383  27.752  1.00 62.39      A16S
ATOM   1590  C8  G   A  80      92.666  18.559  27.386  1.00 62.39      A16S
ATOM   1591  C2* G   A  80      90.157  16.864  25.863  1.00 59.93      A16S
ATOM   1592  O2* G   A  80      89.305  16.560  24.770  1.00 59.93      A16S
ATOM   1593  C3* G   A  80      89.386  17.437  27.052  1.00 59.93      A16S
ATOM   1594  O3* G   A  80      88.073  16.896  27.257  1.00 59.93      A16S
ATOM   1595  P   U   A  81      87.869  15.352  27.650  1.00 94.75      A16S
ATOM   1596  O1P U   A  81      88.391  14.529  26.527  1.00201.26      A16S
ATOM   1597  O2P U   A  81      86.457  15.194  28.077  1.00201.26      A16S
ATOM   1598  O5* U   A  81      88.779  15.107  28.931  1.00 94.75      A16S
ATOM   1599  C5* U   A  81      90.198  14.917  28.802  1.00 94.75      A16S
ATOM   1600  C4* U   A  81      90.538  13.457  28.535  1.00 94.75      A16S
ATOM   1601  O4* U   A  81      91.942  13.401  28.181  1.00 94.75      A16S
ATOM   1602  C1* U   A  81      92.595  12.418  28.951  1.00 94.75      A16S
ATOM   1603  N1  U   A  81      93.469  13.138  29.891  1.00201.26      A16S
ATOM   1604  C6  U   A  81      92.962  14.108  30.730  1.00201.26      A16S
ATOM   1605  C2  U   A  81      94.821  12.839  29.889  1.00201.26      A16S
ATOM   1606  O2  U   A  81      95.313  11.976  29.180  1.00201.26      A16S
ATOM   1607  N3  U   A  81      95.580  13.596  30.748  1.00201.26      A16S
ATOM   1608  C4  U   A  81      95.135  14.596  31.594  1.00201.26      A16S
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ATOM   1609  O4  U   A  81      95.949  15.230  32.266  1.00201.26      A16S
ATOM   1610  C5  U   A  81      93.726  14.826  31.554  1.00201.26      A16S
ATOM   1611  C2* U   A  81      91.511  11.510  29.547  1.00 94.75      A16S
ATOM   1612  O2* U   A  81      91.259  10.460  28.633  1.00 94.75      A16S
ATOM   1613  C3* U   A  81      90.337  12.481  29.696  1.00 94.75      A16S
ATOM   1614  O3* U   A  81      89.037  11.871  29.570  1.00 94.75      A16S
ATOM   1615  P   U   A  82      88.542  10.721  30.601  1.00104.08      A16S
ATOM   1616  O1P U   A  82      88.986   9.420  30.029  1.00106.63      A16S
ATOM   1617  O2P U   A  82      87.086  10.946  30.859  1.00106.63      A16S
ATOM   1618  O5* U   A  82      89.353  10.977  31.953  1.00104.08      A16S
ATOM   1619  C5* U   A  82      88.702  10.907  33.245  1.00104.08      A16S
ATOM   1620  C4* U   A  82      89.536  10.103  34.217  1.00104.08      A16S
ATOM   1621  O4* U   A  82      89.402   8.687  33.942  1.00104.08      A16S
ATOM   1622  C1* U   A  82      90.633   8.029  34.211  1.00104.08      A16S
ATOM   1623  N1  U   A  82      91.061   7.303  32.998  1.00106.63      A16S
ATOM   1624  C6  U   A  82      90.357   7.415  31.818  1.00106.63      A16S
ATOM   1625  C2  U   A  82      92.189   6.484  33.072  1.00106.63      A16S
ATOM   1626  O2  U   A  82      92.861   6.352  34.085  1.00106.63      A16S
ATOM   1627  N3  U   A  82      92.499   5.823  31.909  1.00106.63      A16S
ATOM   1628  C4  U   A  82      91.825   5.890  30.708  1.00106.63      A16S
ATOM   1629  O4  U   A  82      92.226   5.229  29.751  1.00106.63      A16S
ATOM   1630  C5  U   A  82      90.691   6.756  30.706  1.00106.63      A16S
ATOM   1631  C2* U   A  82      91.623   9.078  34.727  1.00104.08      A16S
ATOM   1632  O2* U   A  82      91.642   9.063  36.142  1.00104.08      A16S
ATOM   1633  C3* U   A  82      91.030  10.368  34.178  1.00104.08      A16S
ATOM   1634  O3* U   A  82      91.382  11.488  34.970  1.00104.08      A16S
ATOM   1635  P   U   A  83      92.297  12.645  34.338  1.00 75.08      A16S
ATOM   1636  O1P U   A  83      92.421  13.700  35.375  1.00 93.53      A16S
ATOM   1637  O2P U   A  83      91.725  12.980  33.011  1.00 93.53      A16S
ATOM   1638  O5* U   A  83      93.727  11.960  34.139  1.00 75.08      A16S
ATOM   1639  C5* U   A  83      94.543  11.646  35.278  1.00 75.08      A16S
ATOM   1640  C4* U   A  83      95.608  10.632  34.928  1.00 75.08      A16S
ATOM   1641  O4* U   A  83      95.009   9.439  34.359  1.00 75.08      A16S
ATOM   1642  C1* U   A  83      95.989   8.743  33.601  1.00 75.08      A16S
ATOM   1643  N1  U   A  83      95.436   8.325  32.298  1.00 93.53      A16S
ATOM   1644  C6  U   A  83      94.318   8.921  31.754  1.00 93.53      A16S
ATOM   1645  C2  U   A  83      96.101   7.305  31.614  1.00 93.53      A16S
ATOM   1646  O2  U   A  83      97.083   6.731  32.056  1.00 93.53      A16S
ATOM   1647  N3  U   A  83      95.571   6.986  30.390  1.00 93.53      A16S
ATOM   1648  C4  U   A  83      94.474   7.560  29.785  1.00 93.53      A16S
ATOM   1649  O4  U   A  83      94.169   7.215  28.643  1.00 93.53      A16S
ATOM   1650  C5  U   A  83      93.830   8.583  30.554  1.00 93.53      A16S
ATOM   1651  C2* U   A  83      97.217   9.648  33.483  1.00 75.08      A16S
ATOM   1652  O2* U   A  83      98.216   9.156  34.359  1.00 75.08      A16S
ATOM   1653  C3* U   A  83      96.661  11.011  33.901  1.00 75.08      A16S
ATOM   1654  O3* U   A  83      97.688  11.816  34.466  1.00 75.08      A16S
ATOM   1655  P   U   A  84      98.629  12.698  33.505  1.00173.69      A16S
ATOM   1656  O1P U   A  84      99.577  13.431  34.387  1.00 75.41      A16S
ATOM   1657  O2P U   A  84      97.748  13.459  32.591  1.00 75.41      A16S
ATOM   1658  O5* U   A  84      99.438  11.628  32.635  1.00173.69      A16S
ATOM   1659  C5* U   A  84     100.633  11.001  33.149  1.00173.69      A16S
ATOM   1660  C4* U   A  84     101.307  10.154  32.084  1.00173.69      A16S
ATOM   1661  O4* U   A  84     100.460   9.032  31.720  1.00173.69      A16S
ATOM   1662  C1* U   A  84     100.697   8.675  30.365  1.00173.69      A16S
ATOM   1663  N1  U   A  84      99.447   8.804  29.602  1.00 75.41      A16S
ATOM   1664  C6  U   A  84      98.469   9.696  29.977  1.00 75.41      A16S
ATOM   1665  C2  U   A  84      99.286   7.997  28.479  1.00 75.41      A16S
ATOM   1666  O2  U   A  84     100.135   7.205  28.095  1.00 75.41      A16S
ATOM   1667  N3  U   A  84      98.096   8.163  27.816  1.00 75.41      A16S
ATOM   1668  C4  U   A  84      97.080   9.038  28.143  1.00 75.41      A16S
ATOM   1669  O4  U   A  84      96.056   9.064  27.455  1.00 75.41      A16S
ATOM   1670  C5  U   A  84      97.330   9.840  29.304  1.00 75.41      A16S
ATOM   1671  C2* U   A  84     101.765   9.615  29.814  1.00173.69      A16S
ATOM   1672  O2* U   A  84     103.025   8.974  29.878  1.00173.69      A16S
ATOM   1673  C3* U   A  84     101.639  10.812  30.751  1.00173.69      A16S
ATOM   1674  O3* U   A  84     102.842  11.563  30.779  1.00173.69      A16S
ATOM   1675  P   A   A  88     103.086  12.710  29.675  1.00137.49      A16S
ATOM   1676  O1P A   A  88     104.431  13.287  29.945  1.00111.83      A16S
ATOM   1677  O2P A   A  88     101.891  13.603  29.637  1.00111.83      A16S
ATOM   1678  O5* A   A  88     103.143  11.931  28.284  1.00137.49      A16S
ATOM   1679  C5* A   A  88     104.254  11.076  27.942  1.00137.49      A16S
ATOM   1680  C4* A   A  88     103.988  10.398  26.620  1.00137.49      A16S
ATOM   1681  O4* A   A  88     102.713   9.716  26.723  1.00137.49      A16S
ATOM   1682  C1* A   A  88     101.991   9.849  25.512  1.00137.49      A16S
ATOM   1683  N9  A   A  88     100.743  10.559  25.802  1.00111.83      A16S
ATOM   1684  C4  A   A  88      99.590  10.511  25.055  1.00111.83      A16S
ATOM   1685  N3  A   A  88      99.378   9.811  23.925  1.00111.83      A16S
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ATOM   1686  C2  A   A  88      98.139  10.003  23.481  1.00111.83      A16S
ATOM   1687  N1  A   A  88      97.160  10.762  23.997  1.00111.83      A16S
ATOM   1688  C6  A   A  88      97.407  11.457  25.131  1.00111.83      A16S
ATOM   1689  N6  A   A  88      96.434  12.221  25.640  1.00111.83      A16S
ATOM   1690  C5  A   A  88      98.684  11.334  25.705  1.00111.83      A16S
ATOM   1691  N7  A   A  88      99.253  11.891  26.843  1.00111.83      A16S
ATOM   1692  C8  A   A  88     100.470  11.403  26.856  1.00111.83      A16S
ATOM   1693  C2* A   A  88     102.886  10.579  24.510  1.00137.49      A16S
ATOM   1694  O2* A   A  88     103.545   9.633  23.692  1.00137.49      A16S
ATOM   1695  C3* A   A  88     103.827  11.342  25.437  1.00137.49      A16S
ATOM   1696  O3* A   A  88     105.081  11.634  24.826  1.00137.49      A16S
ATOM   1697  P   C   A  89     105.226  12.928  23.881  1.00 83.10      A16S
ATOM   1698  O1P C   A  89     106.650  13.049  23.480  1.00104.27      A16S
ATOM   1699  O2P C   A  89     104.557  14.075  24.551  1.00104.27      A16S
ATOM   1700  O5* C   A  89     104.402  12.542  22.575  1.00 83.10      A16S
ATOM   1701  C5* C   A  89     103.923  13.562  21.695  1.00 83.10      A16S
ATOM   1702  C4* C   A  89     102.552  13.205  21.179  1.00 83.10      A16S
ATOM   1703  O4* C   A  89     101.751  12.653  22.252  1.00 83.10      A16S
ATOM   1704  C1* C   A  89     100.440  13.198  22.210  1.00 83.10      A16S
ATOM   1705  N1  C   A  89     100.247  13.995  23.447  1.00104.27      A16S
ATOM   1706  C6  C   A  89     101.157  13.916  24.467  1.00104.27      A16S
ATOM   1707  C2  C   A  89      99.126  14.832  23.570  1.00104.27      A16S
ATOM   1708  O2  C   A  89      98.306  14.894  22.638  1.00104.27      A16S
ATOM   1709  N3  C   A  89      98.968  15.552  24.706  1.00104.27      A16S
ATOM   1710  C4  C   A  89      99.866  15.460  25.690  1.00104.27      A16S
ATOM   1711  N4  C   A  89      99.667  16.184  26.790  1.00104.27      A16S
ATOM   1712  C5  C   A  89     101.006  14.623  25.591  1.00104.27      A16S
ATOM   1713  C2* C   A  89     100.329  14.011  20.918  1.00 83.10      A16S
ATOM   1714  O2* C   A  89      99.807  13.213  19.874  1.00 83.10      A16S
ATOM   1715  C3* C   A  89     101.777  14.414  20.700  1.00 83.10      A16S
ATOM   1716  O3* C   A  89     102.101  14.760  19.373  1.00 83.10      A16S
ATOM   1717  P   U   A  90     102.605  16.246  19.071  1.00 57.24      A16S
ATOM   1718  O1P U   A  90     102.922  16.365  17.626  1.00 65.59      A16S
ATOM   1719  O2P U   A  90     103.649  16.564  20.093  1.00 65.59      A16S
ATOM   1720  O5* U   A  90     101.306  17.125  19.351  1.00 57.24      A16S
ATOM   1721  C5* U   A  90     100.089  16.890  18.607  1.00 57.24      A16S
ATOM   1722  C4* U   A  90      98.920  17.605  19.249  1.00 57.24      A16S
ATOM   1723  O4* U   A  90      98.710  17.085  20.587  1.00 57.24      A16S
ATOM   1724  C1* U   A  90      98.206  18.114  21.422  1.00 57.24      A16S
ATOM   1725  N1  U   A  90      99.136  18.312  22.544  1.00 65.59      A16S
ATOM   1726  C6  U   A  90     100.496  18.320  22.355  1.00 65.59      A16S
ATOM   1727  C2  U   A  90      98.594  18.501  23.801  1.00 65.59      A16S
ATOM   1728  O2  U   A  90      97.389  18.519  24.012  1.00 65.59      A16S
ATOM   1729  N3  U   A  90      99.513  18.677  24.803  1.00 65.59      A16S
ATOM   1730  C4  U   A  90     100.884  18.698  24.679  1.00 65.59      A16S
ATOM   1731  O4  U   A  90     101.582  18.874  25.678  1.00 65.59      A16S
ATOM   1732  C5  U   A  90     101.362  18.507  23.350  1.00 65.59      A16S
ATOM   1733  C2* U   A  90      98.057  19.374  20.572  1.00 57.24      A16S
ATOM   1734  O2* U   A  90      96.731  19.469  20.091  1.00 57.24      A16S
ATOM   1735  C3* U   A  90      99.050  19.106  19.454  1.00 57.24      A16S
ATOM   1736  O3* U   A  90      98.714  19.848  18.300  1.00 57.24      A16S
ATOM   1737  P   C   A  91      99.087  21.405  18.233  1.00 49.52      A16S
ATOM   1738  O1P C   A  91      98.938  21.807  16.814  1.00 53.31      A16S
ATOM   1739  O2P C   A  91     100.375  21.648  18.932  1.00 53.31      A16S
ATOM   1740  O5* C   A  91      97.936  22.106  19.076  1.00 49.52      A16S
ATOM   1741  C5* C   A  91      96.612  22.236  18.528  1.00 49.52      A16S
ATOM   1742  C4* C   A  91      95.735  23.049  19.446  1.00 49.52      A16S
ATOM   1743  O4* C   A  91      95.535  22.331  20.689  1.00 49.52      A16S
ATOM   1744  C1* C   A  91      95.449  23.251  21.756  1.00 49.52      A16S
ATOM   1745  N1  C   A  91      96.542  22.991  22.698  1.00 53.31      A16S
ATOM   1746  C6  C   A  91      97.698  22.394  22.290  1.00 53.31      A16S
ATOM   1747  C2  C   A  91      96.382  23.378  24.022  1.00 53.31      A16S
ATOM   1748  O2  C   A  91      95.321  23.920  24.365  1.00 53.31      A16S
ATOM   1749  N3  C   A  91      97.379  23.162  24.898  1.00 53.31      A16S
ATOM   1750  C4  C   A  91      98.511  22.595  24.491  1.00 53.31      A16S
ATOM   1751  N4  C   A  91      99.487  22.429  25.391  1.00 53.31      A16S
ATOM   1752  C5  C   A  91      98.700  22.179  23.145  1.00 53.31      A16S
ATOM   1753  C2* C   A  91      95.535  24.655  21.169  1.00 49.52      A16S
ATOM   1754  O2* C   A  91      94.220  25.116  20.946  1.00 49.52      A16S
ATOM   1755  C3* C   A  91      96.277  24.402  19.866  1.00 49.52      A16S
ATOM   1756  O3* C   A  91      96.000  25.414  18.906  1.00 49.52      A16S
ATOM   1757  P   C   A  92      96.788  26.816  18.988  1.00 48.85      A16S
ATOM   1758  O1P C   A  92      96.301  27.695  17.893  1.00 47.92      A16S
ATOM   1759  O2P C   A  92      98.233  26.514  19.105  1.00 47.92      A16S
ATOM   1760  O5* C   A  92      96.315  27.468  20.364  1.00 48.85      A16S
ATOM   1761  C5* C   A  92      94.967  27.956  20.513  1.00 48.85      A16S
ATOM   1762  C4* C   A  92      94.812  28.712  21.812  1.00 48.85      A16S
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ATOM   1763  O4*  C   A  92      94.912  27.803  22.936  1.00 48.85      A16S
ATOM   1764  C1*  C   A  92      95.563  28.449  24.008  1.00 48.85      A16S
ATOM   1765  N1   C   A  92      96.839  27.756  24.249  1.00 47.92      A16S
ATOM   1766  C6   C   A  92      97.256  26.753  23.420  1.00 47.92      A16S
ATOM   1767  C2   C   A  92      97.627  28.138  25.347  1.00 47.92      A16S
ATOM   1768  O2   C   A  92      97.246  29.059  26.073  1.00 47.92      A16S
ATOM   1769  N3   C   A  92      98.787  27.495  25.581  1.00 47.92      A16S
ATOM   1770  C4   C   A  92      99.178  26.511  24.772  1.00 47.92      A16S
ATOM   1771  N4   C   A  92     100.326  25.897  25.053  1.00 47.92      A16S
ATOM   1772  C5   C   A  92      98.407  26.110  23.642  1.00 47.92      A16S
ATOM   1773  C2*  C   A  92      95.783  29.902  23.594  1.00 48.85      A16S
ATOM   1774  O2*  C   A  92      94.666  30.671  23.992  1.00 48.85      A16S
ATOM   1775  C3*  C   A  92      95.849  29.781  22.086  1.00 48.85      A16S
ATOM   1776  O3*  C   A  92      95.536  31.007  21.452  1.00 48.85      A16S
ATOM   1777  P    G   A  93      96.710  32.072  21.163  1.00 39.82      A16S
ATOM   1778  O1P  G   A  93      96.095  33.144  20.330  1.00 63.73      A16S
ATOM   1779  O2P  G   A  93      97.918  31.360  20.665  1.00 63.73      A16S
ATOM   1780  O5*  G   A  93      97.077  32.639  22.608  1.00 39.82      A16S
ATOM   1781  C5*  G   A  93      96.070  33.248  23.423  1.00 39.82      A16S
ATOM   1782  C4*  G   A  93      96.581  33.469  24.817  1.00 39.82      A16S
ATOM   1783  O4*  G   A  93      96.920  32.200  25.425  1.00 39.82      A16S
ATOM   1784  C1*  G   A  93      97.929  32.398  26.400  1.00 39.82      A16S
ATOM   1785  N9   G   A  93      99.057  31.523  26.108  1.00 63.73      A16S
ATOM   1786  C4   G   A  93     100.097  31.227  26.961  1.00 63.73      A16S
ATOM   1787  N3   G   A  93     100.233  31.666  28.227  1.00 63.73      A16S
ATOM   1788  C2   G   A  93     101.361  31.251  28.774  1.00 63.73      A16S
ATOM   1789  N2   G   A  93     101.661  31.601  30.029  1.00 63.73      A16S
ATOM   1790  N1   G   A  93     102.280  30.468  28.132  1.00 63.73      A16S
ATOM   1791  C6   G   A  93     102.161  30.009  26.829  1.00 63.73      A16S
ATOM   1792  O6   G   A  93     103.060  29.325  26.334  1.00 63.73      A16S
ATOM   1793  C5   G   A  93     100.953  30.438  26.232  1.00 63.73      A16S
ATOM   1794  N7   G   A  93     100.450  30.211  24.959  1.00 63.73      A16S
ATOM   1795  C8   G   A  93      99.323  30.867  24.933  1.00 63.73      A16S
ATOM   1796  C2*  G   A  93      98.343  33.869  26.340  1.00 39.82      A16S
ATOM   1797  O2*  G   A  93      97.711  34.607  27.369  1.00 39.82      A16S
ATOM   1798  C3*  G   A  93      97.855  34.274  24.958  1.00 39.82      A16S
ATOM   1799  O3*  G   A  93      97.642  35.668  24.881  1.00 39.82      A16S
ATOM   1800  P    U   A  95      98.817  36.606  24.323  1.00 63.39      A16S
ATOM   1801  O1P  U   A  95      98.317  37.994  24.443  1.00 58.91      A16S
ATOM   1802  O2P  U   A  95      99.239  36.090  22.997  1.00 58.91      A16S
ATOM   1803  O5*  U   A  95     100.009  36.409  25.365  1.00 63.39      A16S
ATOM   1804  C5*  U   A  95      99.870  36.873  26.720  1.00 63.39      A16S
ATOM   1805  C4*  U   A  95     101.072  36.489  27.556  1.00 63.39      A16S
ATOM   1806  O4*  U   A  95     101.151  35.046  27.694  1.00 63.39      A16S
ATOM   1807  C1*  U   A  95     102.511  34.646  27.774  1.00 63.39      A16S
ATOM   1808  N1   U   A  95     102.816  33.761  26.638  1.00 58.91      A16S
ATOM   1809  C6   U   A  95     101.964  33.647  25.561  1.00 58.91      A16S
ATOM   1810  C2   U   A  95     103.994  33.043  26.685  1.00 58.91      A16S
ATOM   1811  O2   U   A  95     104.780  33.127  27.606  1.00 58.91      A16S
ATOM   1812  N3   U   A  95     104.220  32.227  25.604  1.00 58.91      A16S
ATOM   1813  C4   U   A  95     103.408  32.062  24.495  1.00 58.91      A16S
ATOM   1814  O4   U   A  95     103.739  31.268  23.605  1.00 58.91      A16S
ATOM   1815  C5   U   A  95     102.215  32.847  24.517  1.00 58.91      A16S
ATOM   1816  C2*  U   A  95     103.365  35.910  27.742  1.00 63.39      A16S
ATOM   1817  O2*  U   A  95     103.683  36.294  29.066  1.00 63.39      A16S
ATOM   1818  C3*  U   A  95     102.437  36.886  27.027  1.00 63.39      A16S
ATOM   1819  O3*  U   A  95     102.772  38.240  27.292  1.00 63.39      A16S
ATOM   1820  P    G   A  96     103.907  38.952  26.405  1.00 76.21      A16S
ATOM   1821  O1P  G   A  96     103.748  40.414  26.612  1.00 68.62      A16S
ATOM   1822  O2P  G   A  96     103.852  38.396  25.025  1.00 68.62      A16S
ATOM   1823  O5*  G   A  96     105.267  38.485  27.093  1.00 76.21      A16S
ATOM   1824  C5*  G   A  96     105.551  38.875  28.443  1.00 76.21      A16S
ATOM   1825  C4*  G   A  96     106.874  38.316  28.908  1.00 76.21      A16S
ATOM   1826  O4*  G   A  96     106.794  36.876  29.035  1.00 76.21      A16S
ATOM   1827  C1*  G   A  96     108.077  36.314  28.829  1.00 76.21      A16S
ATOM   1828  N9   G   A  96     108.041  35.421  27.675  1.00 68.62      A16S
ATOM   1829  C4   G   A  96     108.954  34.434  27.411  1.00 68.62      A16S
ATOM   1830  N3   G   A  96     110.019  34.121  28.178  1.00 68.62      A16S
ATOM   1831  C2   G   A  96     110.722  33.132  27.665  1.00 68.62      A16S
ATOM   1832  N2   G   A  96     111.811  32.697  28.305  1.00 68.62      A16S
ATOM   1833  N1   G   A  96     110.408  32.499  26.491  1.00 68.62      A16S
ATOM   1834  C6   G   A  96     109.316  32.806  25.682  1.00 68.62      A16S
ATOM   1835  O6   G   A  96     109.122  32.173  24.638  1.00 68.62      A16S
ATOM   1836  C5   G   A  96     108.550  33.867  26.222  1.00 68.62      A16S
ATOM   1837  N7   G   A  96     107.399  34.483  25.745  1.00 68.62      A16S
ATOM   1838  C8   G   A  96     107.131  35.397  26.639  1.00 68.62      A16S
ATOM   1839  C2*  G   A  96     109.041  37.460  28.560  1.00 76.21      A16S
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ATOM   1840  O2*  G   A  96     109.648  37.824  29.781  1.00 76.21      A16S
ATOM   1841  C3*  G   A  96     108.097  38.531  28.037  1.00 76.21      A16S
ATOM   1842  O3*  G   A  96     108.669  39.821  28.159  1.00 76.21      A16S
ATOM   1843  P    G   A  97     109.576  40.396  26.957  1.00 89.93      A16S
ATOM   1844  O1P  G   A  97     110.020  41.746  27.390  1.00 59.55      A16S
ATOM   1845  O2P  G   A  97     108.852  40.235  25.662  1.00 59.55      A16S
ATOM   1846  O5*  G   A  97     110.839  39.423  26.924  1.00 89.93      A16S
ATOM   1847  C5*  G   A  97     111.737  39.366  28.039  1.00 89.93      A16S
ATOM   1848  C4*  G   A  97     112.863  38.397  27.775  1.00 89.93      A16S
ATOM   1849  O4*  G   A  97     112.367  37.035  27.745  1.00 89.93      A16S
ATOM   1850  C1*  G   A  97     113.194  36.251  26.901  1.00 89.93      A16S
ATOM   1851  N9   G   A  97     112.393  35.709  25.813  1.00 59.55      A16S
ATOM   1852  C4   G   A  97     112.802  34.736  24.947  1.00 59.55      A16S
ATOM   1853  N3   G   A  97     113.991  34.103  24.985  1.00 59.55      A16S
ATOM   1854  C2   G   A  97     114.115  33.229  24.007  1.00 59.55      A16S
ATOM   1855  N2   G   A  97     115.248  32.506  23.901  1.00 59.55      A16S
ATOM   1856  N1   G   A  97     113.142  32.999  23.062  1.00 59.55      A16S
ATOM   1857  C6   G   A  97     111.913  33.647  23.004  1.00 59.55      A16S
ATOM   1858  O6   G   A  97     111.114  33.376  22.101  1.00 59.55      A16S
ATOM   1859  C5   G   A  97     111.770  34.580  24.053  1.00 59.55      A16S
ATOM   1860  N7   G   A  97     110.720  35.431  24.362  1.00 59.55      A16S
ATOM   1861  C8   G   A  97     111.132  36.077  25.419  1.00 59.55      A16S
ATOM   1862  C2*  G   A  97     114.261  37.170  26.314  1.00 89.93      A16S
ATOM   1863  O2*  G   A  97     115.472  37.050  27.033  1.00 89.93      A16S
ATOM   1864  C3*  G   A  97     113.595  38.528  26.456  1.00 89.93      A16S
ATOM   1865  O3*  G   A  97     114.524  39.584  26.407  1.00 89.93      A16S
ATOM   1866  P    U   A  98     114.756  40.334  25.010  1.00 74.18      A16S
ATOM   1867  O1P  U   A  98     115.655  41.494  25.235  1.00 27.97      A16S
ATOM   1868  O2P  U   A  98     113.412  40.546  24.394  1.00 27.97      A16S
ATOM   1869  O5*  U   A  98     115.565  39.267  24.152  1.00 74.18      A16S
ATOM   1870  C5*  U   A  98     116.843  38.800  24.604  1.00 74.18      A16S
ATOM   1871  C4*  U   A  98     117.329  37.679  23.729  1.00 74.18      A16S
ATOM   1872  O4*  U   A  98     116.391  36.572  23.795  1.00 74.18      A16S
ATOM   1873  C1*  U   A  98     116.348  35.906  22.541  1.00 74.18      A16S
ATOM   1874  N1   U   A  98     114.988  36.004  21.982  1.00 27.97      A16S
ATOM   1875  C6   U   A  98     114.106  36.955  22.398  1.00 27.97      A16S
ATOM   1876  C2   U   A  98     114.629  35.087  21.006  1.00 27.97      A16S
ATOM   1877  O2   U   A  98     115.394  34.246  20.579  1.00 27.97      A16S
ATOM   1878  N3   U   A  98     113.349  35.194  20.538  1.00 27.97      A16S
ATOM   1879  C4   U   A  98     112.408  36.110  20.924  1.00 27.97      A16S
ATOM   1880  O4   U   A  98     111.255  36.035  20.467  1.00 27.97      A16S
ATOM   1881  C5   U   A  98     112.866  37.042  21.918  1.00 27.97      A16S
ATOM   1882  C2*  U   A  98     117.359  36.593  21.635  1.00 74.18      A16S
ATOM   1883  O2*  U   A  98     118.609  35.934  21.725  1.00 74.18      A16S
ATOM   1884  C3*  U   A  98     117.401  37.979  22.247  1.00 74.18      A16S
ATOM   1885  O3*  U   A  98     118.539  38.694  21.835  1.00 74.18      A16S
ATOM   1886  P    C   A  99     118.482  39.480  20.438  1.00 61.65      A16S
ATOM   1887  O1P  C   A  99     119.741  40.253  20.301  1.00 47.36      A16S
ATOM   1888  O2P  C   A  99     117.169  40.179  20.373  1.00 47.36      A16S
ATOM   1889  O5*  C   A  99     118.462  38.315  19.350  1.00 61.65      A16S
ATOM   1890  C5*  C   A  99     119.534  37.352  19.285  1.00 61.65      A16S
ATOM   1891  C4*  C   A  99     119.347  36.427  18.109  1.00 61.65      A16S
ATOM   1892  O4*  C   A  99     118.266  35.499  18.358  1.00 61.65      A16S
ATOM   1893  C1*  C   A  99     117.566  35.252  17.151  1.00 61.65      A16S
ATOM   1894  N1   C   A  99     116.195  35.751  17.313  1.00 47.36      A16S
ATOM   1895  C6   C   A  99     115.941  36.824  18.119  1.00 47.36      A16S
ATOM   1896  C2   C   A  99     115.146  35.113  16.634  1.00 47.36      A16S
ATOM   1897  O2   C   A  99     115.402  34.154  15.885  1.00 47.36      A16S
ATOM   1898  N3   C   A  99     113.882  35.559  16.809  1.00 47.36      A16S
ATOM   1899  C4   C   A  99     113.648  36.595  17.615  1.00 47.36      A16S
ATOM   1900  N4   C   A  99     112.390  36.986  17.783  1.00 47.36      A16S
ATOM   1901  C5   C   A  99     114.696  37.274  18.294  1.00 47.36      A16S
ATOM   1902  C2*  C   A  99     118.292  35.998  16.034  1.00 61.65      A16S
ATOM   1903  O2*  C   A  99     119.220  35.138  15.404  1.00 61.65      A16S
ATOM   1904  C3*  C   A  99     118.965  37.112  16.813  1.00 61.65      A16S
ATOM   1905  O3*  C   A  99     120.092  37.640  16.154  1.00 61.65      A16S
ATOM   1906  P    A   A 101     120.016  39.117  15.536  1.00 64.12      A16S
ATOM   1907  O1P  A   A 101     121.432  39.566  15.406  1.00 39.67      A16S
ATOM   1908  O2P  A   A 101     119.050  39.942  16.319  1.00 39.67      A16S
ATOM   1909  O5*  A   A 101     119.390  38.887  14.088  1.00 64.12      A16S
ATOM   1910  C5*  A   A 101     120.216  38.419  13.010  1.00 64.12      A16S
ATOM   1911  C4*  A   A 101     119.506  37.344  12.227  1.00 64.12      A16S
ATOM   1912  O4*  A   A 101     118.712  36.550  13.139  1.00 64.12      A16S
ATOM   1913  C1*  A   A 101     117.558  36.084  12.475  1.00 64.12      A16S
ATOM   1914  N9   A   A 101     116.389  36.604  13.168  1.00 39.67      A16S
ATOM   1915  C4   A   A 101     115.092  36.244  12.909  1.00 39.67      A16S
ATOM   1916  N3   A   A 101     114.660  35.367  11.989  1.00 39.67      A16S
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ATOM   1917  C2  A   A 101     113.337  35.271  12.027  1.00 39.67      A16S
ATOM   1918  N1  A   A 101     112.466  35.908  12.818  1.00 39.67      A16S
ATOM   1919  C6  A   A 101     112.946  36.788  13.721  1.00 39.67      A16S
ATOM   1920  N6  A   A 101     112.096  37.436  14.497  1.00 39.67      A16S
ATOM   1921  C5  A   A 101     114.320  36.973  13.786  1.00 39.67      A16S
ATOM   1922  N7  A   A 101     115.111  37.783  14.584  1.00 39.67      A16S
ATOM   1923  C8  A   A 101     116.330  37.528  14.178  1.00 39.67      A16S
ATOM   1924  C2* A   A 101     117.612  36.578  11.034  1.00 64.12      A16S
ATOM   1925  O2* A   A 101     118.189  35.563  10.244  1.00 64.12      A16S
ATOM   1926  C3* A   A 101     118.519  37.790  11.161  1.00 64.12      A16S
ATOM   1927  O3* A   A 101     119.179  38.038   9.936  1.00 64.12      A16S
ATOM   1928  P   G   A 102     118.462  38.931   8.817  1.00 49.62      A16S
ATOM   1929  O1P G   A 102     119.455  39.156   7.745  1.00 34.44      A16S
ATOM   1930  O2P G   A 102     117.835  40.083   9.481  1.00 34.44      A16S
ATOM   1931  O5* G   A 102     117.319  37.993   8.236  1.00 49.62      A16S
ATOM   1932  C5* G   A 102     117.660  36.721   7.659  1.00 49.62      A16S
ATOM   1933  C4* G   A 102     116.417  35.943   7.326  1.00 49.62      A16S
ATOM   1934  O4* G   A 102     115.687  35.636   8.540  1.00 49.62      A16S
ATOM   1935  C1* G   A 102     114.293  35.711   8.289  1.00 49.62      A16S
ATOM   1936  N9  G   A 102     113.717  36.752   9.134  1.00 34.44      A16S
ATOM   1937  C4  G   A 102     112.380  36.988   9.302  1.00 34.44      A16S
ATOM   1938  N3  G   A 102     111.385  36.313   8.702  1.00 34.44      A16S
ATOM   1939  C2  G   A 102     110.200  36.749   9.070  1.00 34.44      A16S
ATOM   1940  N2  G   A 102     109.096  36.186   8.554  1.00 34.44      A16S
ATOM   1941  N1  G   A 102     110.005  37.769   9.969  1.00 34.44      A16S
ATOM   1942  C6  G   A 102     111.019  38.483  10.605  1.00 34.44      A16S
ATOM   1943  O6  G   A 102     110.733  39.385  11.414  1.00 34.44      A16S
ATOM   1944  C5  G   A 102     112.301  38.027  10.201  1.00 34.44      A16S
ATOM   1945  N7  G   A 102     113.569  38.458  10.569  1.00 34.44      A16S
ATOM   1946  C8  G   A 102     114.377  37.674   9.911  1.00 34.44      A16S
ATOM   1947  C2* G   A 102     114.102  36.033   6.810  1.00 49.62      A16S
ATOM   1948  O2* G   A 102     113.885  34.848   6.076  1.00 49.62      A16S
ATOM   1949  C3* G   A 102     115.421  36.710   6.489  1.00 49.62      A16S
ATOM   1950  O3* G   A 102     115.745  36.710   5.125  1.00 49.62      A16S
ATOM   1951  P   C   A 103     115.565  38.063   4.305  1.00 33.37      A16S
ATOM   1952  O1P C   A 103     116.261  37.918   2.999  1.00 45.52      A16S
ATOM   1953  O2P C   A 103     115.951  39.163   5.245  1.00 45.52      A16S
ATOM   1954  O5* C   A 103     114.000  38.119   4.041  1.00 33.37      A16S
ATOM   1955  C5* C   A 103     113.385  37.088   3.305  1.00 33.37      A16S
ATOM   1956  C4* C   A 103     111.905  37.151   3.465  1.00 33.37      A16S
ATOM   1957  O4* C   A 103     111.545  36.992   4.855  1.00 33.37      A16S
ATOM   1958  C1* C   A 103     110.295  37.621   5.092  1.00 33.37      A16S
ATOM   1959  N1  C   A 103     110.451  38.630   6.152  1.00 45.52      A16S
ATOM   1960  C6  C   A 103     111.685  38.949   6.650  1.00 45.52      A16S
ATOM   1961  C2  C   A 103     109.307  39.295   6.621  1.00 45.52      A16S
ATOM   1962  O2  C   A 103     108.197  38.960   6.191  1.00 45.52      A16S
ATOM   1963  N3  C   A 103     109.446  40.286   7.522  1.00 45.52      A16S
ATOM   1964  C4  C   A 103     110.660  40.626   7.955  1.00 45.52      A16S
ATOM   1965  N4  C   A 103     110.755  41.658   8.784  1.00 45.52      A16S
ATOM   1966  C5  C   A 103     111.834  39.934   7.540  1.00 45.52      A16S
ATOM   1967  C2* C   A 103     109.880  38.291   3.785  1.00 33.37      A16S
ATOM   1968  O2* C   A 103     109.021  37.409   3.089  1.00 33.37      A16S
ATOM   1969  C3* C   A 103     111.221  38.440   3.085  1.00 33.37      A16S
ATOM   1970  O3* C   A 103     111.091  38.567   1.685  1.00 33.37      A16S
ATOM   1971  P   G   A 104     111.397  39.986   1.001  1.00 39.83      A16S
ATOM   1972  O1P G   A 104     111.105  39.844  -0.443  1.00 29.28      A16S
ATOM   1973  O2P G   A 104     112.760  40.414   1.442  1.00 29.28      A16S
ATOM   1974  O5* G   A 104     110.293  40.947   1.630  1.00 39.83      A16S
ATOM   1975  C5* G   A 104     108.926  40.865   1.182  1.00 39.83      A16S
ATOM   1976  C4* G   A 104     108.044  41.831   1.940  1.00 39.83      A16S
ATOM   1977  O4* G   A 104     108.075  41.528   3.361  1.00 39.83      A16S
ATOM   1978  C1* G   A 104     107.890  42.718   4.111  1.00 39.83      A16S
ATOM   1979  N9  G   A 104     109.085  42.945   4.900  1.00 29.28      A16S
ATOM   1980  C4  G   A 104     109.241  43.846   5.918  1.00 29.28      A16S
ATOM   1981  N3  G   A 104     108.310  44.702   6.369  1.00 29.28      A16S
ATOM   1982  C2  G   A 104     108.777  45.451   7.363  1.00 29.28      A16S
ATOM   1983  N2  G   A 104     108.008  46.391   7.917  1.00 29.28      A16S
ATOM   1984  N1  G   A 104     110.039  45.344   7.879  1.00 29.28      A16S
ATOM   1985  C6  G   A 104     111.006  44.470   7.418  1.00 29.28      A16S
ATOM   1986  O6  G   A 104     112.122  44.464   7.930  1.00 29.28      A16S
ATOM   1987  C5  G   A 104     110.532  43.679   6.356  1.00 29.28      A16S
ATOM   1988  N7  G   A 104     111.175  42.699   5.623  1.00 29.28      A16S
ATOM   1989  C8  G   A 104     110.279  42.294   4.771  1.00 29.28      A16S
ATOM   1990  C2* G   A 104     107.704  43.853   3.120  1.00 39.83      A16S
ATOM   1991  O2* G   A 104     106.316  44.030   2.944  1.00 39.83      A16S
ATOM   1992  C3* G   A 104     108.410  43.302   1.887  1.00 39.83      A16S
ATOM   1993  O3* G   A 104     107.981  43.931   0.699  1.00 39.83      A16S
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ATOM   1994  P    G   A 105     108.760  45.231   0.179  1.00 54.88      A16S
ATOM   1995  O1P  G   A 105     107.952  45.766  -0.950  1.00 35.79      A16S
ATOM   1996  O2P  G   A 105     110.200  44.906  -0.025  1.00 35.79      A16S
ATOM   1997  O5*  G   A 105     108.641  46.254   1.392  1.00 54.88      A16S
ATOM   1998  C5*  G   A 105     107.355  46.759   1.758  1.00 54.88      A16S
ATOM   1999  C4*  G   A 105     107.465  47.864   2.780  1.00 54.88      A16S
ATOM   2000  O4*  G   A 105     107.856  47.358   4.072  1.00 54.88      A16S
ATOM   2001  C1*  G   A 105     108.366  48.420   4.844  1.00 54.88      A16S
ATOM   2002  N9   G   A 105     109.626  48.012   5.443  1.00 35.79      A16S
ATOM   2003  C4   G   A 105     110.202  48.561   6.560  1.00 35.79      A16S
ATOM   2004  N3   G   A 105     109.693  49.570   7.300  1.00 35.79      A16S
ATOM   2005  C2   G   A 105     110.503  49.913   8.287  1.00 35.79      A16S
ATOM   2006  N2   G   A 105     110.168  50.917   9.104  1.00 35.79      A16S
ATOM   2007  N1   G   A 105     111.709  49.301   8.539  1.00 35.79      A16S
ATOM   2008  C6   G   A 105     112.247  48.256   7.795  1.00 35.79      A16S
ATOM   2009  O6   G   A 105     113.344  47.780   8.102  1.00 35.79      A16S
ATOM   2010  C5   G   A 105     111.394  47.887   6.727  1.00 35.79      A16S
ATOM   2011  N7   G   A 105     111.555  46.923   5.744  1.00 35.79      A16S
ATOM   2012  C8   G   A 105     110.481  47.032   5.007  1.00 35.79      A16S
ATOM   2013  C2*  G   A 105     108.518  49.629   3.925  1.00 54.88      A16S
ATOM   2014  O2*  G   A 105     107.422  50.489   4.167  1.00 54.88      A16S
ATOM   2015  C3*  G   A 105     108.444  48.992   2.541  1.00 54.88      A16S
ATOM   2016  O3*  G   A 105     107.930  49.913   1.594  1.00 54.88      A16S
ATOM   2017  P    C   A 106     108.934  50.863   0.784  1.00 37.90      A16S
ATOM   2018  O1P  C   A 106     108.029  51.589  -0.140  1.00 31.53      A16S
ATOM   2019  O2P  C   A 106     110.078  50.088   0.231  1.00 31.53      A16S
ATOM   2020  O5*  C   A 106     109.519  51.839   1.901  1.00 37.90      A16S
ATOM   2021  C5*  C   A 106     108.736  52.938   2.377  1.00 37.90      A16S
ATOM   2022  C4*  C   A 106     109.466  53.705   3.453  1.00 37.90      A16S
ATOM   2023  O4*  C   A 106     109.546  52.914   4.664  1.00 37.90      A16S
ATOM   2024  C1*  C   A 106     110.739  53.228   5.356  1.00 37.90      A16S
ATOM   2025  N1   C   A 106     111.621  52.062   5.287  1.00 31.53      A16S
ATOM   2026  C6   C   A 106     111.532  51.183   4.244  1.00 31.53      A16S
ATOM   2027  C2   C   A 106     112.574  51.882   6.282  1.00 31.53      A16S
ATOM   2028  O2   C   A 106     112.609  52.681   7.232  1.00 31.53      A16S
ATOM   2029  N3   C   A 106     113.433  50.845   6.183  1.00 31.53      A16S
ATOM   2030  C4   C   A 106     113.350  50.006   5.146  1.00 31.53      A16S
ATOM   2031  N4   C   A 106     114.224  49.001   5.073  1.00 31.53      A16S
ATOM   2032  C5   C   A 106     112.368  50.157   4.135  1.00 31.53      A16S
ATOM   2033  C2*  C   A 106     111.410  54.373   4.604  1.00 37.90      A16S
ATOM   2034  O2*  C   A 106     110.973  55.587   5.180  1.00 37.90      A16S
ATOM   2035  C3*  C   A 106     110.898  54.136   3.187  1.00 37.90      A16S
ATOM   2036  O3*  C   A 106     110.981  55.288   2.362  1.00 37.90      A16S
ATOM   2037  P    G   A 107     112.314  55.559   1.496  1.00 29.81      A16S
ATOM   2038  O1P  G   A 107     112.039  56.889   0.912  1.00 39.09      A16S
ATOM   2039  O2P  G   A 107     112.645  54.423   0.591  1.00 39.09      A16S
ATOM   2040  O5*  G   A 107     113.453  55.715   2.596  1.00 29.81      A16S
ATOM   2041  C5*  G   A 107     113.427  56.847   3.455  1.00 29.81      A16S
ATOM   2042  C4*  G   A 107     114.565  56.810   4.421  1.00 29.81      A16S
ATOM   2043  O4*  G   A 107     114.383  55.735   5.363  1.00 29.81      A16S
ATOM   2044  C1*  G   A 107     115.647  55.196   5.721  1.00 29.81      A16S
ATOM   2045  N9   G   A 107     115.722  53.852   5.163  1.00 39.09      A16S
ATOM   2046  C4   G   A 107     116.669  52.895   5.426  1.00 39.09      A16S
ATOM   2047  N3   G   A 107     117.694  53.011   6.286  1.00 39.09      A16S
ATOM   2048  C2   G   A 107     118.435  51.922   6.308  1.00 39.09      A16S
ATOM   2049  N2   G   A 107     119.500  51.852   7.115  1.00 39.09      A16S
ATOM   2050  N1   G   A 107     118.190  50.818   5.541  1.00 39.09      A16S
ATOM   2051  C6   G   A 107     117.139  50.689   4.645  1.00 39.09      A16S
ATOM   2052  O6   G   A 107     117.006  49.654   3.986  1.00 39.09      A16S
ATOM   2053  C5   G   A 107     116.341  51.832   4.621  1.00 39.09      A16S
ATOM   2054  N7   G   A 107     115.202  52.103   3.883  1.00 39.09      A16S
ATOM   2055  C8   G   A 107     114.868  53.309   4.238  1.00 39.09      A16S
ATOM   2056  C2*  G   A 107     116.701  56.071   5.052  1.00 29.81      A16S
ATOM   2057  O2*  G   A 107     117.050  57.141   5.910  1.00 29.81      A16S
ATOM   2058  C3*  G   A 107     115.937  56.565   3.840  1.00 29.81      A16S
ATOM   2059  O3*  G   A 107     116.501  57.738   3.332  1.00 29.81      A16S
ATOM   2060  P    G   A 108     117.336  57.673   1.978  1.00 26.79      A16S
ATOM   2061  O1P  G   A 108     117.676  59.078   1.641  1.00 61.93      A16S
ATOM   2062  O2P  G   A 108     116.568  56.845   1.013  1.00 61.93      A16S
ATOM   2063  O5*  G   A 108     118.651  56.883   2.392  1.00 26.79      A16S
ATOM   2064  C5*  G   A 108     119.271  57.124   3.651  1.00 26.79      A16S
ATOM   2065  C4*  G   A 108     120.278  56.051   3.959  1.00 26.79      A16S
ATOM   2066  O4*  G   A 108     119.651  54.730   3.940  1.00 26.79      A16S
ATOM   2067  C1*  G   A 108     120.669  53.739   3.851  1.00 26.79      A16S
ATOM   2068  N9   G   A 108     120.395  52.758   2.791  1.00 61.93      A16S
ATOM   2069  C4   G   A 108     119.379  52.743   1.873  1.00 61.93      A16S
ATOM   2070  N3   G   A 108     118.361  53.617   1.810  1.00 61.93      A16S
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ATOM   2071  C2  G   A 108     117.560  53.365   0.785  1.00 61.93      A16S
ATOM   2072  N2  G   A 108     116.487  54.153   0.565  1.00 61.93      A16S
ATOM   2073  N1  G   A 108     117.750  52.327  -0.107  1.00 61.93      A16S
ATOM   2074  C6  G   A 108     118.800  51.417  -0.062  1.00 61.93      A16S
ATOM   2075  O6  G   A 108     118.898  50.537  -0.931  1.00 61.93      A16S
ATOM   2076  C5  G   A 108     119.656  51.671   1.034  1.00 61.93      A16S
ATOM   2077  N7  G   A 108     120.795  51.000   1.446  1.00 61.93      A16S
ATOM   2078  C8  G   A 108     121.191  51.664   2.495  1.00 61.93      A16S
ATOM   2079  C2* G   A 108     121.946  54.493   3.493  1.00 26.79      A16S
ATOM   2080  O2* G   A 108     122.744  54.694   4.648  1.00 26.79      A16S
ATOM   2081  C3* G   A 108     121.399  55.809   2.973  1.00 26.79      A16S
ATOM   2082  O3* G   A 108     122.458  56.738   2.907  1.00 26.79      A16S
ATOM   2083  P   A   A 109     123.407  56.712   1.610  1.00 37.15      A16S
ATOM   2084  O1P A   A 109     123.610  55.295   1.222  1.00 32.03      A16S
ATOM   2085  O2P A   A 109     124.576  57.585   1.807  1.00 32.03      A16S
ATOM   2086  O5* A   A 109     122.501  57.340   0.469  1.00 37.15      A16S
ATOM   2087  C5* A   A 109     121.863  58.614   0.639  1.00 37.15      A16S
ATOM   2088  C4* A   A 109     122.072  59.468  -0.590  1.00 37.15      A16S
ATOM   2089  O4* A   A 109     121.823  58.692  -1.789  1.00 37.15      A16S
ATOM   2090  C1* A   A 109     120.851  59.336  -2.578  1.00 37.15      A16S
ATOM   2091  N9  A   A 109     120.043  58.300  -3.198  1.00 32.03      A16S
ATOM   2092  C4  A   A 109     119.587  57.175  -2.579  1.00 32.03      A16S
ATOM   2093  N3  A   A 109     119.756  56.844  -1.295  1.00 32.03      A16S
ATOM   2094  C2  A   A 109     119.206  55.673  -1.047  1.00 32.03      A16S
ATOM   2095  N1  A   A 109     118.554  54.851  -1.875  1.00 32.03      A16S
ATOM   2096  C6  A   A 109     118.404  55.216  -3.162  1.00 32.03      A16S
ATOM   2097  N6  A   A 109     117.756  54.389  -3.985  1.00 32.03      A16S
ATOM   2098  C5  A   A 109     118.943  56.444  -3.550  1.00 32.03      A16S
ATOM   2099  N7  A   A 109     118.968  57.113  -4.762  1.00 32.03      A16S
ATOM   2100  C8  A   A 109     119.622  58.213  -4.494  1.00 32.03      A16S
ATOM   2101  C2* A   A 109     120.092  60.272  -1.638  1.00 37.15      A16S
ATOM   2102  O2* A   A 109     119.541  61.353  -2.364  1.00 37.15      A16S
ATOM   2103  C3* A   A 109     121.200  60.712  -0.690  1.00 37.15      A16S
ATOM   2104  O3* A   A 109     121.946  61.696  -1.371  1.00 37.15      A16S
ATOM   2105  P   C   A 110     123.103  62.472  -0.611  1.00 30.84      A16S
ATOM   2106  O1P C   A 110     123.454  63.609  -1.480  1.00 44.51      A16S
ATOM   2107  O2P C   A 110     124.162  61.522  -0.204  1.00 44.51      A16S
ATOM   2108  O5* C   A 110     122.364  63.003   0.696  1.00 30.84      A16S
ATOM   2109  C5* C   A 110     121.150  63.782   0.604  1.00 30.84      A16S
ATOM   2110  C4* C   A 110     120.658  64.173   1.984  1.00 30.84      A16S
ATOM   2111  O4* C   A 110     120.184  62.993   2.679  1.00 30.84      A16S
ATOM   2112  C1* C   A 110     120.485  63.101   4.058  1.00 30.84      A16S
ATOM   2113  N1  C   A 110     121.351  61.977   4.434  1.00 44.51      A16S
ATOM   2114  C6  C   A 110     122.075  61.311   3.492  1.00 44.51      A16S
ATOM   2115  C2  C   A 110     121.416  61.594   5.769  1.00 44.51      A16S
ATOM   2116  O2  C   A 110     120.749  62.222   6.609  1.00 44.51      A16S
ATOM   2117  N3  C   A 110     122.196  60.551   6.117  1.00 44.51      A16S
ATOM   2118  C4  C   A 110     122.880  59.892   5.183  1.00 44.51      A16S
ATOM   2119  N4  C   A 110     123.615  58.841   5.559  1.00 44.51      A16S
ATOM   2120  C5  C   A 110     122.840  60.272   3.819  1.00 44.51      A16S
ATOM   2121  C2* C   A 110     121.149  64.456   4.295  1.00 30.84      A16S
ATOM   2122  O2* C   A 110     120.191  65.388   4.743  1.00 30.84      A16S
ATOM   2123  C3* C   A 110     121.692  64.785   2.915  1.00 30.84      A16S
ATOM   2124  O3* C   A 110     121.821  66.183   2.752  1.00 30.84      A16S
ATOM   2125  P   G   A 111     123.247  66.877   3.008  1.00 27.65      A16S
ATOM   2126  O1P G   A 111     123.038  68.350   2.971  1.00 56.51      A16S
ATOM   2127  O2P G   A 111     124.256  66.244   2.101  1.00 56.51      A16S
ATOM   2128  O5* G   A 111     123.625  66.494   4.502  1.00 27.65      A16S
ATOM   2129  C5* G   A 111     122.940  67.094   5.584  1.00 27.65      A16S
ATOM   2130  C4* G   A 111     123.242  66.360   6.853  1.00 27.65      A16S
ATOM   2131  O4* G   A 111     122.811  64.988   6.717  1.00 27.65      A16S
ATOM   2132  C1* G   A 111     123.703  64.137   7.411  1.00 27.65      A16S
ATOM   2133  N9  G   A 111     124.336  63.250   6.442  1.00 56.51      A16S
ATOM   2134  C4  G   A 111     124.915  62.044   6.713  1.00 56.51      A16S
ATOM   2135  N3  G   A 111     124.950  61.448   7.911  1.00 56.51      A16S
ATOM   2136  C2  G   A 111     125.585  60.308   7.866  1.00 56.51      A16S
ATOM   2137  N2  G   A 111     125.697  59.582   8.973  1.00 56.51      A16S
ATOM   2138  N1  G   A 111     126.155  59.791   6.736  1.00 56.51      A16S
ATOM   2139  C6  G   A 111     126.132  60.387   5.488  1.00 56.51      A16S
ATOM   2140  O6  G   A 111     126.677  59.832   4.525  1.00 56.51      A16S
ATOM   2141  C5  G   A 111     125.442  61.610   5.521  1.00 56.51      A16S
ATOM   2142  N7  G   A 111     125.171  62.513   4.507  1.00 56.51      A16S
ATOM   2143  C8  G   A 111     124.507  63.467   5.098  1.00 56.51      A16S
ATOM   2144  C2* G   A 111     124.738  65.024   8.101  1.00 27.65      A16S
ATOM   2145  O2* G   A 111     124.327  65.303   9.425  1.00 27.65      A16S
ATOM   2146  C3* G   A 111     124.708  66.252   7.209  1.00 27.65      A16S
ATOM   2147  O3* G   A 111     125.201  67.424   7.829  1.00 27.65      A16S
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ATOM   2148  P    G   A 112     126.472  68.163   7.184  1.00 29.22      A16S
ATOM   2149  O1P  G   A 112     126.650  69.453   7.902  1.00 47.01      A16S
ATOM   2150  O2P  G   A 112     126.290  68.148   5.709  1.00 47.01      A16S
ATOM   2151  O5*  G   A 112     127.708  67.212   7.519  1.00 29.22      A16S
ATOM   2152  C5*  G   A 112     128.132  67.031   8.878  1.00 29.22      A16S
ATOM   2153  C4*  G   A 112     129.191  65.962   8.975  1.00 29.22      A16S
ATOM   2154  O4*  G   A 112     128.648  64.705   8.508  1.00 29.22      A16S
ATOM   2155  C1*  G   A 112     129.677  63.928   7.915  1.00 29.22      A16S
ATOM   2156  N9   G   A 112     129.373  63.744   6.496  1.00 47.01      A16S
ATOM   2157  C4   G   A 112     130.123  63.031   5.594  1.00 47.01      A16S
ATOM   2158  N3   G   A 112     131.240  62.341   5.871  1.00 47.01      A16S
ATOM   2159  C2   G   A 112     131.743  61.763   4.793  1.00 47.01      A16S
ATOM   2160  N2   G   A 112     132.844  60.999   4.894  1.00 47.01      A16S
ATOM   2161  N1   G   A 112     131.206  61.879   3.539  1.00 47.01      A16S
ATOM   2162  C6   G   A 112     130.067  62.596   3.231  1.00 47.01      A16S
ATOM   2163  O6   G   A 112     129.685  62.652   2.065  1.00 47.01      A16S
ATOM   2164  C5   G   A 112     129.498  63.196   4.383  1.00 47.01      A16S
ATOM   2165  N7   G   A 112     128.360  63.974   4.521  1.00 47.01      A16S
ATOM   2166  C8   G   A 112     128.322  64.270   5.791  1.00 47.01      A16S
ATOM   2167  C2*  G   A 112     130.967  64.723   8.065  1.00 29.22      A16S
ATOM   2168  O2*  G   A 112     131.625  64.385   9.268  1.00 29.22      A16S
ATOM   2169  C3*  G   A 112     130.430  66.135   8.125  1.00 29.22      A16S
ATOM   2170  O3*  G   A 112     131.391  67.027   8.628  1.00 29.22      A16S
ATOM   2171  P    G   A 113     132.224  67.922   7.583  1.00 32.18      A16S
ATOM   2172  O1P  G   A 113     132.990  68.973   8.327  1.00 18.00      A16S
ATOM   2173  O2P  G   A 113     131.254  68.320   6.539  1.00 18.00      A16S
ATOM   2174  O5*  G   A 113     133.240  66.903   6.892  1.00 32.18      A16S
ATOM   2175  C5*  G   A 113     134.021  65.994   7.687  1.00 32.18      A16S
ATOM   2176  C4*  G   A 113     134.912  65.146   6.816  1.00 32.18      A16S
ATOM   2177  O4*  G   A 113     134.120  64.233   6.020  1.00 32.18      A16S
ATOM   2178  C1*  G   A 113     134.752  64.020   4.772  1.00 32.18      A16S
ATOM   2179  N9   G   A 113     133.819  64.366   3.701  1.00 18.00      A16S
ATOM   2180  C4   G   A 113     134.007  64.179   2.350  1.00 18.00      A16S
ATOM   2181  N3   G   A 113     135.094  63.650   1.769  1.00 18.00      A16S
ATOM   2182  C2   G   A 113     134.960  63.568   0.461  1.00 18.00      A16S
ATOM   2183  N2   G   A 113     135.925  63.035  -0.272  1.00 18.00      A16S
ATOM   2184  N1   G   A 113     133.863  63.997  -0.227  1.00 18.00      A16S
ATOM   2185  C6   G   A 113     132.741  64.562   0.344  1.00 18.00      A16S
ATOM   2186  O6   G   A 113     131.815  64.936  -0.377  1.00 18.00      A16S
ATOM   2187  C5   G   A 113     132.854  64.629   1.753  1.00 18.00      A16S
ATOM   2188  N7   G   A 113     131.961  65.092   2.702  1.00 18.00      A16S
ATOM   2189  C8   G   A 113     132.577  64.924   3.839  1.00 18.00      A16S
ATOM   2190  C2*  G   A 113     136.051  64.820   4.773  1.00 32.18      A16S
ATOM   2191  O2*  G   A 113     137.075  63.962   5.220  1.00 32.18      A16S
ATOM   2192  C3*  G   A 113     135.753  65.895   5.807  1.00 32.18      A16S
ATOM   2193  O3*  G   A 113     136.929  66.436   6.396  1.00 32.18      A16S
ATOM   2194  P    U   A 114     137.509  67.838   5.850  1.00 24.67      A16S
ATOM   2195  O1P  U   A 114     138.634  68.278   6.722  1.00 34.25      A16S
ATOM   2196  O2P  U   A 114     136.355  68.755   5.614  1.00 34.25      A16S
ATOM   2197  O5*  U   A 114     138.130  67.470   4.440  1.00 24.67      A16S
ATOM   2198  C5*  U   A 114     139.226  66.585   4.356  1.00 24.67      A16S
ATOM   2199  C4*  U   A 114     139.405  66.151   2.942  1.00 24.67      A16S
ATOM   2200  O4*  U   A 114     138.192  65.510   2.484  1.00 24.67      A16S
ATOM   2201  C1*  U   A 114     138.003  65.795   1.116  1.00 24.67      A16S
ATOM   2202  N1   U   A 114     136.689  66.426   0.954  1.00 34.25      A16S
ATOM   2203  C6   U   A 114     135.971  66.877   2.025  1.00 34.25      A16S
ATOM   2204  C2   U   A 114     136.198  66.529  -0.316  1.00 34.25      A16S
ATOM   2205  O2   U   A 114     136.826  66.160  -1.289  1.00 34.25      A16S
ATOM   2206  N3   U   A 114     134.944  67.079  -0.414  1.00 34.25      A16S
ATOM   2207  C4   U   A 114     134.159  67.528   0.615  1.00 34.25      A16S
ATOM   2208  O4   U   A 114     133.019  67.919   0.380  1.00 34.25      A16S
ATOM   2209  C5   U   A 114     134.755  67.410   1.904  1.00 34.25      A16S
ATOM   2210  C2*  U   A 114     139.177  66.656   0.642  1.00 24.67      A16S
ATOM   2211  O2*  U   A 114     140.175  65.809   0.102  1.00 24.67      A16S
ATOM   2212  C3*  U   A 114     139.646  67.274   1.950  1.00 24.67      A16S
ATOM   2213  O3*  U   A 114     141.022  67.590   1.923  1.00 24.67      A16S
ATOM   2214  P    G   A 115     141.495  69.052   1.483  1.00 30.73      A16S
ATOM   2215  O1P  G   A 115     142.941  69.117   1.862  1.00 34.40      A16S
ATOM   2216  O2P  G   A 115     140.569  70.062   2.012  1.00 34.40      A16S
ATOM   2217  O5*  G   A 115     141.340  69.041  -0.104  1.00 30.73      A16S
ATOM   2218  C5*  G   A 115     142.132  68.147  -0.924  1.00 30.73      A16S
ATOM   2219  C4*  G   A 115     141.765  68.321  -2.374  1.00 30.73      A16S
ATOM   2220  O4*  G   A 115     140.351  68.085  -2.474  1.00 30.73      A16S
ATOM   2221  C1*  G   A 115     139.732  69.092  -3.225  1.00 30.73      A16S
ATOM   2222  N9   G   A 115     138.535  69.473  -2.492  1.00 34.40      A16S
ATOM   2223  C4   G   A 115     137.280  69.703  -3.011  1.00 34.40      A16S
ATOM   2224  N3   G   A 115     136.939  69.674  -4.314  1.00 34.40      A16S
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ATOM   2225  C2   G   A 115     135.661  69.935  -4.491  1.00 34.40      A16S
ATOM   2226  N2   G   A 115     135.164  69.966  -5.719  1.00 34.40      A16S
ATOM   2227  N1   G   A 115     134.780  70.193  -3.476  1.00 34.40      A16S
ATOM   2228  C6   G   A 115     135.112  70.232  -2.128  1.00 34.40      A16S
ATOM   2229  O6   G   A 115     134.251  70.501  -1.284  1.00 34.40      A16S
ATOM   2230  C5   G   A 115     136.478  69.953  -1.922  1.00 34.40      A16S
ATOM   2231  N7   G   A 115     137.208  69.883  -0.748  1.00 34.40      A16S
ATOM   2232  C8   G   A 115     138.423  69.611  -1.136  1.00 34.40      A16S
ATOM   2233  C2*  G   A 115     140.755  70.156  -3.643  1.00 30.73      A16S
ATOM   2234  O2*  G   A 115     140.799  70.288  -5.055  1.00 30.73      A16S
ATOM   2235  C3*  G   A 115     142.021  69.727  -2.875  1.00 30.73      A16S
ATOM   2236  O3*  G   A 115     143.381  69.838  -3.401  1.00 30.73      A16S
ATOM   2237  P    A   A 116     143.780  69.293  -4.880  1.00 35.87      A16S
ATOM   2238  O1P  A   A 116     145.168  69.739  -5.062  1.00 23.23      A16S
ATOM   2239  O2P  A   A 116     142.780  69.657  -5.913  1.00 23.23      A16S
ATOM   2240  O5*  A   A 116     143.796  67.709  -4.745  1.00 35.87      A16S
ATOM   2241  C5*  A   A 116     144.959  66.948  -5.125  1.00 35.87      A16S
ATOM   2242  C4*  A   A 116     144.575  65.827  -6.059  1.00 35.87      A16S
ATOM   2243  O4*  A   A 116     143.510  65.062  -5.440  1.00 35.87      A16S
ATOM   2244  C1*  A   A 116     142.552  64.699  -6.412  1.00 35.87      A16S
ATOM   2245  N9   A   A 116     141.332  65.426  -6.102  1.00 23.23      A16S
ATOM   2246  C4   A   A 116     140.132  65.298  -6.739  1.00 23.23      A16S
ATOM   2247  N3   A   A 116     139.833  64.455  -7.729  1.00 23.23      A16S
ATOM   2248  C2   A   A 116     138.579  64.623  -8.107  1.00 23.23      A16S
ATOM   2249  N1   A   A 116     137.663  65.482  -7.650  1.00 23.23      A16S
ATOM   2250  C6   A   A 116     138.009  66.324  -6.663  1.00 23.23      A16S
ATOM   2251  N6   A   A 116     137.110  67.204  -6.223  1.00 23.23      A16S
ATOM   2252  C5   A   A 116     139.302  66.233  -6.165  1.00 23.23      A16S
ATOM   2253  N7   A   A 116     139.959  66.923  -5.163  1.00 23.23      A16S
ATOM   2254  C8   A   A 116     141.155  66.399  -5.160  1.00 23.23      A16S
ATOM   2255  C2*  A   A 116     143.088  65.130  -7.779  1.00 35.87      A16S
ATOM   2256  O2*  A   A 116     143.769  64.060  -8.393  1.00 35.87      A16S
ATOM   2257  C3*  A   A 116     144.014  66.275  -7.399  1.00 35.87      A16S
ATOM   2258  O3*  A   A 116     145.047  66.442  -8.358  1.00 35.87      A16S
ATOM   2259  P    G   A 117     144.949  67.629  -9.436  1.00 30.11      A16S
ATOM   2260  O1P  G   A 117     144.451  68.825  -8.706  1.00 55.20      A16S
ATOM   2261  O2P  G   A 117     146.252  67.702 -10.157  1.00 55.20      A16S
ATOM   2262  O5*  G   A 117     143.807  67.160 -10.445  1.00 30.11      A16S
ATOM   2263  C5*  G   A 117     143.923  65.937 -11.191  1.00 30.11      A16S
ATOM   2264  C4*  G   A 117     142.571  65.521 -11.721  1.00 30.11      A16S
ATOM   2265  O4*  G   A 117     141.677  65.344 -10.599  1.00 30.11      A16S
ATOM   2266  C1*  G   A 117     140.413  65.901 -10.896  1.00 30.11      A16S
ATOM   2267  N9   G   A 117     140.195  66.993  -9.951  1.00 55.20      A16S
ATOM   2268  C4   G   A 117     139.066  67.762  -9.801  1.00 55.20      A16S
ATOM   2269  N3   G   A 117     137.942  67.666 -10.529  1.00 55.20      A16S
ATOM   2270  C2   G   A 117     137.033  68.535 -10.140  1.00 55.20      A16S
ATOM   2271  N2   G   A 117     135.855  68.582 -10.764  1.00 55.20      A16S
ATOM   2272  N1   G   A 117     137.210  69.424  -9.114  1.00 55.20      A16S
ATOM   2273  C6   G   A 117     138.361  69.536  -8.346  1.00 55.20      A16S
ATOM   2274  O6   G   A 117     138.420  70.364  -7.427  1.00 55.20      A16S
ATOM   2275  C5   G   A 117     139.345  68.620  -8.760  1.00 55.20      A16S
ATOM   2276  N7   G   A 117     140.627  68.412  -8.279  1.00 55.20      A16S
ATOM   2277  C8   G   A 117     141.093  67.443  -9.013  1.00 55.20      A16S
ATOM   2278  C2*  G   A 117     140.426  66.320 -12.365  1.00 30.11      A16S
ATOM   2279  O2*  G   A 117     139.949  65.266 -13.167  1.00 30.11      A16S
ATOM   2280  C3*  G   A 117     141.904  66.558 -12.602  1.00 30.11      A16S
ATOM   2281  O3*  G   A 117     142.243  66.345 -13.954  1.00 30.11      A16S
ATOM   2282  P    U   A 118     142.706  67.586 -14.851  1.00 32.43      A16S
ATOM   2283  O1P  U   A 118     143.106  67.065 -16.188  1.00 34.52      A16S
ATOM   2284  O2P  U   A 118     143.679  68.377 -14.045  1.00 34.52      A16S
ATOM   2285  O5*  U   A 118     141.362  68.411 -15.055  1.00 32.43      A16S
ATOM   2286  C5*  U   A 118     140.228  67.781 -15.667  1.00 32.43      A16S
ATOM   2287  C4*  U   A 118     138.970  68.571 -15.411  1.00 32.43      A16S
ATOM   2288  O4*  U   A 118     138.682  68.620 -13.992  1.00 32.43      A16S
ATOM   2289  C1*  U   A 118     138.041  69.841 -13.683  1.00 32.43      A16S
ATOM   2290  N1   U   A 118     138.885  70.604 -12.750  1.00 34.52      A16S
ATOM   2291  C6   U   A 118     140.226  70.375 -12.642  1.00 34.52      A16S
ATOM   2292  C2   U   A 118     138.277  71.580 -11.994  1.00 34.52      A16S
ATOM   2293  O2   U   A 118     137.088  71.812 -12.047  1.00 34.52      A16S
ATOM   2294  N3   U   A 118     139.109  72.278 -11.168  1.00 34.52      A16S
ATOM   2295  C4   U   A 118     140.450  72.098 -11.012  1.00 34.52      A16S
ATOM   2296  O4   U   A 118     141.039  72.731 -10.145  1.00 34.52      A16S
ATOM   2297  C5   U   A 118     141.009  71.072 -11.823  1.00 34.52      A16S
ATOM   2298  C2*  U   A 118     137.864  70.601 -14.995  1.00 32.43      A16S
ATOM   2299  O2*  U   A 118     136.608  70.295 -15.568  1.00 32.43      A16S
ATOM   2300  C3*  U   A 118     138.986  70.024 -15.830  1.00 32.43      A16S
ATOM   2301  O3*  U   A 118     138.711  70.192 -17.195  1.00 32.43      A16S
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ATOM   2302  P    A   A 119     139.599  71.212 -18.050  1.00 31.78      A16S
ATOM   2303  O1P  A   A 119     139.134  71.069 -19.456  1.00 39.97      A16S
ATOM   2304  O2P  A   A 119     141.031  70.997 -17.719  1.00 39.97      A16S
ATOM   2305  O5*  A   A 119     139.197  72.659 -17.527  1.00 31.78      A16S
ATOM   2306  C5*  A   A 119     138.013  73.303 -18.001  1.00 31.78      A16S
ATOM   2307  C4*  A   A 119     138.323  74.716 -18.379  1.00 31.78      A16S
ATOM   2308  O4*  A   A 119     138.962  75.317 -17.244  1.00 31.78      A16S
ATOM   2309  C1*  A   A 119     139.742  76.390 -17.683  1.00 31.78      A16S
ATOM   2310  N9   A   A 119     140.793  76.633 -16.705  1.00 39.97      A16S
ATOM   2311  C4   A   A 119     140.851  77.734 -15.892  1.00 39.97      A16S
ATOM   2312  N3   A   A 119     139.983  78.753 -15.844  1.00 39.97      A16S
ATOM   2313  C2   A   A 119     140.368  79.655 -14.949  1.00 39.97      A16S
ATOM   2314  N1   A   A 119     141.438  79.653 -14.160  1.00 39.97      A16S
ATOM   2315  C6   A   A 119     142.286  78.609 -14.232  1.00 39.97      A16S
ATOM   2316  N6   A   A 119     143.355  78.605 -13.443  1.00 39.97      A16S
ATOM   2317  C5   A   A 119     141.990  77.587 -15.139  1.00 39.97      A16S
ATOM   2318  N7   A   A 119     142.637  76.406 -15.458  1.00 39.97      A16S
ATOM   2319  C8   A   A 119     141.886  75.879 -16.393  1.00 39.97      A16S
ATOM   2320  C2*  A   A 119     140.178  76.106 -19.120  1.00 31.78      A16S
ATOM   2321  O2*  A   A 119     140.018  77.264 -19.923  1.00 31.78      A16S
ATOM   2322  C3*  A   A 119     139.366  74.848 -19.470  1.00 31.78      A16S
ATOM   2323  O3*  A   A 119     138.868  74.659 -20.825  1.00 31.78      A16S
ATOM   2324  P    A   A 120     137.535  75.418 -21.370  1.00 43.13      A16S
ATOM   2325  O1P  A   A 120     137.396  74.997 -22.788  1.00 28.90      A16S
ATOM   2326  O2P  A   A 120     137.546  76.863 -21.049  1.00 28.90      A16S
ATOM   2327  O5*  A   A 120     136.327  74.727 -20.599  1.00 43.13      A16S
ATOM   2328  C5*  A   A 120     135.846  73.432 -21.008  1.00 43.13      A16S
ATOM   2329  C4*  A   A 120     134.753  72.963 -20.081  1.00 43.13      A16S
ATOM   2330  O4*  A   A 120     135.242  73.068 -18.724  1.00 43.13      A16S
ATOM   2331  C1*  A   A 120     134.228  73.548 -17.877  1.00 43.13      A16S
ATOM   2332  N9   A   A 120     134.731  74.783 -17.285  1.00 28.90      A16S
ATOM   2333  C4   A   A 120     135.305  74.871 -16.047  1.00 28.90      A16S
ATOM   2334  N3   A   A 120     135.454  73.883 -15.154  1.00 28.90      A16S
ATOM   2335  C2   A   A 120     136.088  74.330 -14.072  1.00 28.90      A16S
ATOM   2336  N1   A   A 120     136.561  75.558 -13.809  1.00 28.90      A16S
ATOM   2337  C6   A   A 120     136.401  76.517 -14.740  1.00 28.90      A16S
ATOM   2338  N6   A   A 120     136.899  77.725 -14.499  1.00 28.90      A16S
ATOM   2339  C5   A   A 120     135.730  76.178 -15.919  1.00 28.90      A16S
ATOM   2340  N7   A   A 120     135.402  76.913 -17.045  1.00 28.90      A16S
ATOM   2341  C8   A   A 120     134.801  76.043 -17.821  1.00 28.90      A16S
ATOM   2342  C2*  A   A 120     132.942  73.635 -18.698  1.00 43.13      A16S
ATOM   2343  O2*  A   A 120     132.282  72.397 -18.547  1.00 43.13      A16S
ATOM   2344  C3*  A   A 120     133.476  73.780 -20.116  1.00 43.13      A16S
ATOM   2345  O3*  A   A 120     132.583  73.188 -21.056  1.00 43.13      A16S
ATOM   2346  P    C   A 121     131.804  74.115 -22.103  1.00 38.98      A16S
ATOM   2347  O1P  C   A 121     131.325  73.288 -23.235  1.00 39.92      A16S
ATOM   2348  O2P  C   A 121     132.683  75.283 -22.368  1.00 39.92      A16S
ATOM   2349  O5*  C   A 121     130.529  74.645 -21.309  1.00 38.98      A16S
ATOM   2350  C5*  C   A 121     129.566  73.743 -20.723  1.00 38.98      A16S
ATOM   2351  C4*  C   A 121     129.235  74.187 -19.318  1.00 38.98      A16S
ATOM   2352  O4*  C   A 121     128.834  75.582 -19.300  1.00 38.98      A16S
ATOM   2353  C1*  C   A 121     127.569  75.725 -18.680  1.00 38.98      A16S
ATOM   2354  N1   C   A 121     126.801  76.753 -19.426  1.00 39.92      A16S
ATOM   2355  C6   C   A 121     126.749  76.704 -20.789  1.00 39.92      A16S
ATOM   2356  C2   C   A 121     126.139  77.795 -18.732  1.00 39.92      A16S
ATOM   2357  O2   C   A 121     126.136  77.813 -17.488  1.00 39.92      A16S
ATOM   2358  N3   C   A 121     125.508  78.751 -19.449  1.00 39.92      A16S
ATOM   2359  C4   C   A 121     125.493  78.691 -20.786  1.00 39.92      A16S
ATOM   2360  N4   C   A 121     124.871  79.658 -21.458  1.00 39.92      A16S
ATOM   2361  C5   C   A 121     126.116  77.640 -21.496  1.00 39.92      A16S
ATOM   2362  C2*  C   A 121     126.929  74.338 -18.693  1.00 38.98      A16S
ATOM   2363  O2*  C   A 121     126.108  74.203 -17.547  1.00 38.98      A16S
ATOM   2364  C3*  C   A 121     128.143  73.414 -18.613  1.00 38.98      A16S
ATOM   2365  O3*  C   A 121     128.534  73.292 -17.267  1.00 38.98      A16S
ATOM   2366  P    G   A 122     128.840  71.851 -16.653  1.00 43.69      A16S
ATOM   2367  O1P  G   A 122     127.609  71.026 -16.776  1.00 38.75      A16S
ATOM   2368  O2P  G   A 122     130.100  71.350 -17.229  1.00 38.75      A16S
ATOM   2369  O5*  G   A 122     129.117  72.202 -15.129  1.00 43.69      A16S
ATOM   2370  C5*  G   A 122     129.507  71.191 -14.201  1.00 43.69      A16S
ATOM   2371  C4*  G   A 122     130.386  71.785 -13.142  1.00 43.69      A16S
ATOM   2372  O4*  G   A 122     131.657  72.154 -13.735  1.00 43.69      A16S
ATOM   2373  C1*  G   A 122     132.098  73.388 -13.196  1.00 43.69      A16S
ATOM   2374  N9   G   A 122     132.061  74.369 -14.273  1.00 38.75      A16S
ATOM   2375  C4   G   A 122     132.552  75.647 -14.241  1.00 38.75      A16S
ATOM   2376  N3   G   A 122     133.179  76.223 -13.207  1.00 38.75      A16S
ATOM   2377  C2   G   A 122     133.529  77.457 -13.479  1.00 38.75      A16S
ATOM   2378  N2   G   A 122     134.177  78.180 -12.563  1.00 38.75      A16S
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ATOM   2379  N1  G   A 122     133.275  78.077 -14.668  1.00 38.75      A16S
ATOM   2380  C6  G   A 122     132.625  77.501 -15.745  1.00 38.75      A16S
ATOM   2381  O6  G   A 122     132.439  78.149 -16.779  1.00 38.75      A16S
ATOM   2382  C5  G   A 122     132.254  76.184 -15.471  1.00 38.75      A16S
ATOM   2383  N7  G   A 122     131.597  75.261 -16.266  1.00 38.75      A16S
ATOM   2384  C8  G   A 122     131.507  74.199 -15.516  1.00 38.75      A16S
ATOM   2385  C2* G   A 122     131.114  73.775 -12.091  1.00 43.69      A16S
ATOM   2386  O2* G   A 122     131.552  73.304 -10.829  1.00 43.69      A16S
ATOM   2387  C3* G   A 122     129.854  73.075 -12.559  1.00 43.69      A16S
ATOM   2388  O3* G   A 122     128.921  72.879 -11.525  1.00 43.69      A16S
ATOM   2389  P   C   A 123     127.691  73.896 -11.397  1.00 14.49      A16S
ATOM   2390  O1P C   A 123     126.701  73.395 -10.415  1.00 40.49      A16S
ATOM   2391  O2P C   A 123     127.264  74.149 -12.796  1.00 40.49      A16S
ATOM   2392  O5* C   A 123     128.339  75.248 -10.841  1.00 14.49      A16S
ATOM   2393  C5* C   A 123     129.228  75.242  -9.700  1.00 14.49      A16S
ATOM   2394  C4* C   A 123     129.992  76.552  -9.610  1.00 14.49      A16S
ATOM   2395  O4* C   A 123     130.857  76.708 -10.764  1.00 14.49      A16S
ATOM   2396  C1* C   A 123     130.923  78.075 -11.134  1.00 14.49      A16S
ATOM   2397  N1  C   A 123     130.373  78.228 -12.487  1.00 40.49      A16S
ATOM   2398  C6  C   A 123     129.421  77.372 -12.966  1.00 40.49      A16S
ATOM   2399  C2  C   A 123     130.829  79.278 -13.275  1.00 40.49      A16S
ATOM   2400  O2  C   A 123     131.694  80.033 -12.819  1.00 40.49      A16S
ATOM   2401  N3  C   A 123     130.322  79.450 -14.510  1.00 40.49      A16S
ATOM   2402  C4  C   A 123     129.392  78.618 -14.966  1.00 40.49      A16S
ATOM   2403  N4  C   A 123     128.924  78.826 -16.188  1.00 40.49      A16S
ATOM   2404  C5  C   A 123     128.906  77.532 -14.188  1.00 40.49      A16S
ATOM   2405  C2* C   A 123     130.118  78.873 -10.120  1.00 14.49      A16S
ATOM   2406  O2* C   A 123     130.999  79.322  -9.132  1.00 14.49      A16S
ATOM   2407  C3* C   A 123     129.153  77.820  -9.604  1.00 14.49      A16S
ATOM   2408  O3* C   A 123     128.661  78.135  -8.320  1.00 14.49      A16S
ATOM   2409  P   G   A 124     127.235  78.847  -8.194  1.00 25.22      A16S
ATOM   2410  O1P G   A 124     126.881  78.863  -6.759  1.00 25.13      A16S
ATOM   2411  O2P G   A 124     126.308  78.210  -9.166  1.00 25.13      A16S
ATOM   2412  O5* G   A 124     127.509  80.329  -8.709  1.00 25.22      A16S
ATOM   2413  C5* G   A 124     128.334  81.238  -7.967  1.00 25.22      A16S
ATOM   2414  C4* G   A 124     128.462  82.549  -8.710  1.00 25.22      A16S
ATOM   2415  O4* G   A 124     129.183  82.354  -9.953  1.00 25.22      A16S
ATOM   2416  C1* G   A 124     128.724  83.268 -10.932  1.00 25.22      A16S
ATOM   2417  N9  G   A 124     128.274  82.518 -12.098  1.00 25.13      A16S
ATOM   2418  C4  G   A 124     128.035  83.012 -13.356  1.00 25.13      A16S
ATOM   2419  N3  G   A 124     128.168  84.285 -13.741  1.00 25.13      A16S
ATOM   2420  C2  G   A 124     127.885  84.444 -15.019  1.00 25.13      A16S
ATOM   2421  N2  G   A 124     127.994  85.648 -15.570  1.00 25.13      A16S
ATOM   2422  N1  G   A 124     127.478  83.443 -15.845  1.00 25.13      A16S
ATOM   2423  C6  G   A 124     127.305  82.130 -15.462  1.00 25.13      A16S
ATOM   2424  O6  G   A 124     126.866  81.308 -16.271  1.00 25.13      A16S
ATOM   2425  C5  G   A 124     127.645  81.934 -14.107  1.00 25.13      A16S
ATOM   2426  N7  G   A 124     127.639  80.782 -13.343  1.00 25.13      A16S
ATOM   2427  C8  G   A 124     128.014  81.178 -12.159  1.00 25.13      A16S
ATOM   2428  C2* G   A 124     127.621  84.096 -10.289  1.00 25.22      A16S
ATOM   2429  O2* G   A 124     128.188  85.268  -9.758  1.00 25.22      A16S
ATOM   2430  C3* G   A 124     127.169  83.190  -9.162  1.00 25.22      A16S
ATOM   2431  O3* G   A 124     126.557  83.934  -8.141  1.00 25.22      A16S
ATOM   2432  P   U   A 125     124.959  83.923  -8.025  1.00 20.65      A16S
ATOM   2433  O1P U   A 125     124.630  84.584  -6.729  1.00 31.04      A16S
ATOM   2434  O2P U   A 125     124.427  82.566  -8.322  1.00 31.04      A16S
ATOM   2435  O5* U   A 125     124.505  84.842  -9.232  1.00 20.65      A16S
ATOM   2436  C5* U   A 125     124.957  86.191  -9.323  1.00 20.65      A16S
ATOM   2437  C4* U   A 125     124.649  86.728 -10.686  1.00 20.65      A16S
ATOM   2438  O4* U   A 125     125.413  85.992 -11.674  1.00 20.65      A16S
ATOM   2439  C1* U   A 125     124.699  85.938 -12.882  1.00 20.65      A16S
ATOM   2440  N1  U   A 125     124.619  84.551 -13.368  1.00 31.04      A16S
ATOM   2441  C6  U   A 125     124.749  83.463 -12.543  1.00 31.04      A16S
ATOM   2442  C2  U   A 125     124.400  84.385 -14.725  1.00 31.04      A16S
ATOM   2443  O2  U   A 125     124.281  85.321 -15.495  1.00 31.04      A16S
ATOM   2444  N3  U   A 125     124.327  83.089 -15.158  1.00 31.04      A16S
ATOM   2445  C4  U   A 125     124.455  81.951 -14.405  1.00 31.04      A16S
ATOM   2446  O4  U   A 125     124.513  80.844 -14.986  1.00 31.04      A16S
ATOM   2447  C5  U   A 125     124.674  82.200 -12.998  1.00 31.04      A16S
ATOM   2448  C2* U   A 125     123.357  86.613 -12.647  1.00 20.65      A16S
ATOM   2449  O2* U   A 125     123.512  87.941 -13.086  1.00 20.65      A16S
ATOM   2450  C3* U   A 125     123.223  86.526 -11.135  1.00 20.65      A16S
ATOM   2451  O3* U   A 125     122.343  87.486 -10.570  1.00 20.65      A16S
ATOM   2452  P   G   A 126     120.785  87.110 -10.365  1.00 16.96      A16S
ATOM   2453  O1P G   A 126     120.183  88.278  -9.671  1.00 36.41      A16S
ATOM   2454  O2P G   A 126     120.656  85.753  -9.761  1.00 36.41      A16S
ATOM   2455  O5* G   A 126     120.197  87.072 -11.850  1.00 16.96      A16S
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ATOM   2456  C5*  G   A 126     120.067  88.297 -12.567  1.00 16.96      A16S
ATOM   2457  C4*  G   A 126     119.713  88.052 -13.995  1.00 16.96      A16S
ATOM   2458  O4*  G   A 126     120.753  87.289 -14.636  1.00 16.96      A16S
ATOM   2459  C1*  G   A 126     120.194  86.492 -15.661  1.00 16.96      A16S
ATOM   2460  N9   G   A 126     120.569  85.097 -15.448  1.00 36.41      A16S
ATOM   2461  C4   G   A 126     120.688  84.127 -16.419  1.00 36.41      A16S
ATOM   2462  N3   G   A 126     120.451  84.289 -17.734  1.00 36.41      A16S
ATOM   2463  C2   G   A 126     120.658  83.179 -18.412  1.00 36.41      A16S
ATOM   2464  N2   G   A 126     120.468  83.155 -19.726  1.00 36.41      A16S
ATOM   2465  N1   G   A 126     121.068  82.007 -17.852  1.00 36.41      A16S
ATOM   2466  C6   G   A 126     121.326  81.812 -16.501  1.00 36.41      A16S
ATOM   2467  O6   G   A 126     121.709  80.697 -16.097  1.00 36.41      A16S
ATOM   2468  C5   G   A 126     121.101  82.997 -15.757  1.00 36.41      A16S
ATOM   2469  N7   G   A 126     121.228  83.240 -14.399  1.00 36.41      A16S
ATOM   2470  C8   G   A 126     120.893  84.493 -14.260  1.00 36.41      A16S
ATOM   2471  C2*  G   A 126     118.689  86.718 -15.654  1.00 16.96      A16S
ATOM   2472  O2*  G   A 126     118.417  87.637 -16.692  1.00 16.96      A16S
ATOM   2473  C3*  G   A 126     118.458  87.259 -14.242  1.00 16.96      A16S
ATOM   2474  O3*  G   A 126     117.299  88.081 -14.126  1.00 16.96      A16S
ATOM   2475  P    G   A 127     115.846  87.395 -14.112  1.00 29.06      A16S
ATOM   2476  O1P  G   A 127     114.813  88.462 -14.090  1.00 42.77      A16S
ATOM   2477  O2P  G   A 127     115.846  86.347 -13.055  1.00 42.77      A16S
ATOM   2478  O5*  G   A 127     115.786  86.712 -15.545  1.00 29.06      A16S
ATOM   2479  C5*  G   A 127     114.898  85.642 -15.832  1.00 29.06      A16S
ATOM   2480  C4*  G   A 127     115.098  85.201 -17.254  1.00 29.06      A16S
ATOM   2481  O4*  G   A 127     116.504  84.929 -17.448  1.00 29.06      A16S
ATOM   2482  C1*  G   A 127     116.665  83.798 -18.290  1.00 29.06      A16S
ATOM   2483  N9   G   A 127     117.285  82.734 -17.503  1.00 42.77      A16S
ATOM   2484  C4   G   A 127     117.620  81.473 -17.942  1.00 42.77      A16S
ATOM   2485  N3   G   A 127     117.482  81.003 -19.200  1.00 42.77      A16S
ATOM   2486  C2   G   A 127     117.844  79.732 -19.294  1.00 42.77      A16S
ATOM   2487  N2   G   A 127     117.755  79.097 -20.465  1.00 42.77      A16S
ATOM   2488  N1   G   A 127     118.313  78.990 -18.246  1.00 42.77      A16S
ATOM   2489  C6   G   A 127     118.469  79.457 -16.946  1.00 42.77      A16S
ATOM   2490  O6   G   A 127     118.899  78.706 -16.069  1.00 42.77      A16S
ATOM   2491  C5   G   A 127     118.080  80.812 -16.826  1.00 42.77      A16S
ATOM   2492  N7   G   A 127     118.075  81.648 -15.718  1.00 42.77      A16S
ATOM   2493  C8   G   A 127     117.608  82.777 -16.168  1.00 42.77      A16S
ATOM   2494  C2*  G   A 127     115.272  83.387 -18.768  1.00 29.06      A16S
ATOM   2495  O2*  G   A 127     114.986  83.988 -20.016  1.00 29.06      A16S
ATOM   2496  C3*  G   A 127     114.398  83.914 -17.644  1.00 29.06      A16S
ATOM   2497  O3*  G   A 127     113.066  84.129 -18.062  1.00 29.06      A16S
ATOM   2498  P    G   A 128     111.983  82.963 -17.856  1.00 35.47      A16S
ATOM   2499  O1P  G   A 128     110.636  83.507 -18.203  1.00 35.21      A16S
ATOM   2500  O2P  G   A 128     112.220  82.354 -16.521  1.00 35.21      A16S
ATOM   2501  O5*  G   A 128     112.376  81.883 -18.952  1.00 35.47      A16S
ATOM   2502  C5*  G   A 128     112.383  82.238 -20.331  1.00 35.47      A16S
ATOM   2503  C4*  G   A 128     112.753  81.052 -21.160  1.00 35.47      A16S
ATOM   2504  O4*  G   A 128     114.113  80.671 -20.865  1.00 35.47      A16S
ATOM   2505  C1*  G   A 128     114.249  79.265 -20.980  1.00 35.47      A16S
ATOM   2506  N9   G   A 128     114.683  78.727 -19.692  1.00 35.21      A16S
ATOM   2507  C4   G   A 128     115.066  77.429 -19.448  1.00 35.21      A16S
ATOM   2508  N3   G   A 128     115.137  76.438 -20.359  1.00 35.21      A16S
ATOM   2509  C2   G   A 128     115.518  75.297 -19.819  1.00 35.21      A16S
ATOM   2510  N2   G   A 128     115.661  74.211 -20.587  1.00 35.21      A16S
ATOM   2511  N1   G   A 128     115.792  75.141 -18.495  1.00 35.21      A16S
ATOM   2512  C6   G   A 128     115.720  76.145 -17.541  1.00 35.21      A16S
ATOM   2513  O6   G   A 128     115.978  75.892 -16.368  1.00 35.21      A16S
ATOM   2514  C5   G   A 128     115.331  77.374 -18.102  1.00 35.21      A16S
ATOM   2515  N7   G   A 128     115.147  78.617 -17.509  1.00 35.21      A16S
ATOM   2516  C8   G   A 128     114.765  79.389 -18.489  1.00 35.21      A16S
ATOM   2517  C2*  G   A 128     112.890  78.708 -21.401  1.00 35.47      A16S
ATOM   2518  O2*  G   A 128     112.857  78.566 -22.809  1.00 35.47      A16S
ATOM   2519  C3*  G   A 128     111.955  79.794 -20.896  1.00 35.47      A16S
ATOM   2520  O3*  G   A 128     110.725  79.803 -21.579  1.00 35.47      A16S
ATOM   2521  P    U   A 129     109.458  79.094 -20.913  1.00 34.83      A16S
ATOM   2522  O1P  U   A 129     108.323  79.215 -21.855  1.00 40.16      A16S
ATOM   2523  O2P  U   A 129     109.322  79.597 -19.528  1.00 40.16      A16S
ATOM   2524  O5*  U   A 129     109.867  77.559 -20.873  1.00 34.83      A16S
ATOM   2525  C5*  U   A 129     110.052  76.820 -22.093  1.00 34.83      A16S
ATOM   2526  C4*  U   A 129     110.305  75.363 -21.789  1.00 34.83      A16S
ATOM   2527  O4*  U   A 129     111.577  75.217 -21.122  1.00 34.83      A16S
ATOM   2528  C1*  U   A 129     111.523  74.115 -20.252  1.00 34.83      A16S
ATOM   2529  N1   U   A 129     111.994  74.539 -18.931  1.00 40.16      A16S
ATOM   2530  C6   U   A 129     111.797  75.810 -18.479  1.00 40.16      A16S
ATOM   2531  C2   U   A 129     112.649  73.607 -18.160  1.00 40.16      A16S
ATOM   2532  O2   U   A 129     112.859  72.463 -18.532  1.00 40.16      A16S
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ATOM   2533  N3  U   A 129     113.061  74.056 -16.935  1.00 40.16       A16S
ATOM   2534  C4  U   A 129     112.893  75.318 -16.410  1.00 40.16       A16S
ATOM   2535  O4  U   A 129     113.273  75.558 -15.251  1.00 40.16       A16S
ATOM   2536  C5  U   A 129     112.216  76.225 -17.279  1.00 40.16       A16S
ATOM   2537  C2* U   A 129     110.111  73.528 -20.294  1.00 34.83       A16S
ATOM   2538  O2* U   A 129     110.108  72.419 -21.169  1.00 34.83       A16S
ATOM   2539  C3* U   A 129     109.303  74.684 -20.867  1.00 34.83       A16S
ATOM   2540  O3* U   A 129     108.185  74.210 -21.622  1.00 34.83       A16S
ATOM   2541  P   G   A 129A    106.696  74.302 -21.015  1.00 37.57       A16S
ATOM   2542  O1P G   A 129A    106.253  75.715 -21.049  1.00 50.46       A16S
ATOM   2543  O2P G   A 129A    106.682  73.553 -19.725  1.00 50.46       A16S
ATOM   2544  O5* G   A 129A    105.831  73.508 -22.084  1.00 37.57       A16S
ATOM   2545  C5* G   A 129A    106.372  72.346 -22.728  1.00 37.57       A16S
ATOM   2546  C4* G   A 129A    106.330  72.534 -24.213  1.00 37.57       A16S
ATOM   2547  O4* G   A 129A    104.950  72.758 -24.549  1.00 37.57       A16S
ATOM   2548  C1* G   A 129A    104.861  73.646 -25.629  1.00 37.57       A16S
ATOM   2549  N9  G   A 129A    103.751  74.556 -25.382  1.00 50.46       A16S
ATOM   2550  C4  G   A 129A    102.655  74.741 -26.191  1.00 50.46       A16S
ATOM   2551  N3  G   A 129A    102.407  74.101 -27.349  1.00 50.46       A16S
ATOM   2552  C2  G   A 129A    101.268  74.489 -27.892  1.00 50.46       A16S
ATOM   2553  N2  G   A 129A    100.852  73.945 -29.044  1.00 50.46       A16S
ATOM   2554  N1  G   A 129A    100.445  75.437 -27.350  1.00 50.46       A16S
ATOM   2555  C6  G   A 129A    100.682  76.115 -26.163  1.00 50.46       A16S
ATOM   2556  O6  G   A 129A     99.873  76.964 -25.765  1.00 50.46       A16S
ATOM   2557  C5  G   A 129A    101.895  75.700 -25.561  1.00 50.46       A16S
ATOM   2558  N7  G   A 129A    102.492  76.102 -24.374  1.00 50.46       A16S
ATOM   2559  C8  G   A 129A    103.588  75.395 -24.308  1.00 50.46       A16S
ATOM   2560  C2* G   A 129A    106.236  74.281 -25.877  1.00 37.57       A16S
ATOM   2561  O2* G   A 129A    106.724  73.970 -27.163  1.00 37.57       A16S
ATOM   2562  C3* G   A 129A    107.059  73.776 -24.693  1.00 37.57       A16S
ATOM   2563  O3* G   A 129A    108.485  73.566 -24.884  1.00 37.57       A16S
ATOM   2564  P   A   A 130     109.064  72.684 -26.125  1.00 33.54       A16S
ATOM   2565  O1P A   A 130     110.322  73.358 -26.502  1.00 41.04       A16S
ATOM   2566  O2P A   A 130     108.087  72.322 -27.172  1.00 41.04       A16S
ATOM   2567  O5* A   A 130     109.489  71.311 -25.451  1.00 33.54       A16S
ATOM   2568  C5* A   A 130     109.173  70.056 -26.072  1.00 33.54       A16S
ATOM   2569  C4* A   A 130     109.638  68.927 -25.198  1.00 33.54       A16S
ATOM   2570  O4* A   A 130     111.075  69.057 -25.030  1.00 33.54       A16S
ATOM   2571  C1* A   A 130     111.388  69.140 -23.660  1.00 33.54       A16S
ATOM   2572  N9  A   A 130     112.514  70.059 -23.496  1.00 41.04       A16S
ATOM   2573  C4  A   A 130     113.732  69.773 -22.921  1.00 41.04       A16S
ATOM   2574  N3  A   A 130     114.130  68.615 -22.377  1.00 41.04       A16S
ATOM   2575  C2  A   A 130     115.387  68.698 -21.955  1.00 41.04       A16S
ATOM   2576  N1  A   A 130     116.229  69.725 -22.004  1.00 41.04       A16S
ATOM   2577  C6  A   A 130     115.800  70.879 -22.545  1.00 41.04       A16S
ATOM   2578  N6  A   A 130     116.639  71.913 -22.588  1.00 41.04       A16S
ATOM   2579  C5  A   A 130     114.483  70.924 -23.036  1.00 41.04       A16S
ATOM   2580  N7  A   A 130     113.747  71.931 -23.646  1.00 41.04       A16S
ATOM   2581  C8  A   A 130     112.589  71.368 -23.896  1.00 41.04       A16S
ATOM   2582  C2* A   A 130     110.110  69.582 -22.958  1.00 33.54       A16S
ATOM   2583  O2* A   A 130     110.161  69.165 -21.620  1.00 33.54       A16S
ATOM   2584  C3* A   A 130     109.036  68.898 -23.798  1.00 33.54       A16S
ATOM   2585  O3* A   A 130     108.879  67.529 -23.429  1.00 33.54       A16S
ATOM   2586  P   C   A 131     107.738  67.085 -22.372  1.00 33.28       A16S
ATOM   2587  O1P C   A 131     107.795  65.602 -22.293  1.00 22.22       A16S
ATOM   2588  O2P C   A 131     106.427  67.747 -22.659  1.00 22.22       A16S
ATOM   2589  O5* C   A 131     108.270  67.673 -20.993  1.00 33.28       A16S
ATOM   2590  C5* C   A 131     107.777  67.199 -19.741  1.00 33.28       A16S
ATOM   2591  C4* C   A 131     108.854  66.422 -19.042  1.00 33.28       A16S
ATOM   2592  O4* C   A 131     110.087  67.166 -19.077  1.00 33.28       A16S
ATOM   2593  C1* C   A 131     110.797  66.967 -17.874  1.00 33.28       A16S
ATOM   2594  N1  C   A 131     110.930  68.275 -17.211  1.00 22.22       A16S
ATOM   2595  C6  C   A 131     110.466  69.396 -17.817  1.00 22.22       A16S
ATOM   2596  C2  C   A 131     111.518  68.355 -15.933  1.00 22.22       A16S
ATOM   2597  O2  C   A 131     111.988  67.336 -15.416  1.00 22.22       A16S
ATOM   2598  N3  C   A 131     111.559  69.537 -15.299  1.00 22.22       A16S
ATOM   2599  C4  C   A 131     111.056  70.614 -15.882  1.00 22.22       A16S
ATOM   2600  N4  C   A 131     111.062  71.755 -15.198  1.00 22.22       A16S
ATOM   2601  C5  C   A 131     110.506  70.572 -17.195  1.00 22.22       A16S
ATOM   2602  C2* C   A 131     110.013  65.951 -17.042  1.00 33.28       A16S
ATOM   2603  O2* C   A 131     110.499  64.657 -17.309  1.00 33.28       A16S
ATOM   2604  C3* C   A 131     108.608  66.143 -17.578  1.00 33.28       A16S
ATOM   2605  O3* C   A 131     107.831  64.978 -17.424  1.00 33.28       A16S
ATOM   2606  P   C   A 132     106.828  64.860 -16.189  1.00 37.43       A16S
ATOM   2607  O1P C   A 132     105.895  63.785 -16.582  1.00 35.68       A16S
ATOM   2608  O2P C   A 132     106.300  66.198 -15.838  1.00 35.68       A16S
ATOM   2609  O5* C   A 132     107.770  64.377 -15.005  1.00 37.43       A16S
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ATOM   2610  C5* C   A 132     108.503  63.152 -15.135  1.00 37.43      A16S
ATOM   2611  C4* C   A 132     109.459  62.985 -13.988  1.00 37.43      A16S
ATOM   2612  O4* C   A 132     110.460  64.014 -14.084  1.00 37.43      A16S
ATOM   2613  C1* C   A 132     110.857  64.408 -12.787  1.00 37.43      A16S
ATOM   2614  N1   C   A 132     110.515  65.823 -12.605  1.00 35.68      A16S
ATOM   2615  C6   C   A 132     109.746  66.485 -13.514  1.00 35.68      A16S
ATOM   2616  C2   C   A 132     110.980  66.477 -11.466  1.00 35.68      A16S
ATOM   2617  O2   C   A 132     111.696  65.854 -10.669  1.00 35.68      A16S
ATOM   2618  N3   C   A 132     110.644  67.761 -11.259  1.00 35.68      A16S
ATOM   2619  C4   C   A 132     109.882  68.394 -12.142  1.00 35.68      A16S
ATOM   2620  N4   C   A 132     109.563  69.659 -11.892  1.00 35.68      A16S
ATOM   2621  C5   C   A 132     109.409  67.759 -13.323  1.00 35.68      A16S
ATOM   2622  C2* C   A 132     110.112  63.535 -11.782  1.00 37.43      A16S
ATOM   2623  O2* C   A 132     110.939  62.442 -11.448  1.00 37.43      A16S
ATOM   2624  C3* C   A 132     108.885  63.141 -12.586  1.00 37.43      A16S
ATOM   2625  O3* C   A 132     108.294  61.945 -12.098  1.00 37.43      A16S
ATOM   2626  P    U   A 133     107.165  62.026 -10.961  1.00 39.76      A16S
ATOM   2627  O1P U   A 133     106.832  60.642 -10.573  1.00 38.51      A16S
ATOM   2628  O2P U   A 133     106.093  62.936 -11.426  1.00 38.51      A16S
ATOM   2629  O5* U   A 133     107.940  62.641  -9.726  1.00 39.76      A16S
ATOM   2630  C5* U   A 133     109.022  61.917  -9.166  1.00 39.76      A16S
ATOM   2631  C4* U   A 133     109.547  62.632  -7.973  1.00 39.76      A16S
ATOM   2632  O4* U   A 133     110.145  63.879  -8.386  1.00 39.76      A16S
ATOM   2633  C1* U   A 133     109.904  64.868  -7.400  1.00 39.76      A16S
ATOM   2634  N1   U   A 133     109.149  65.966  -8.021  1.00 38.51      A16S
ATOM   2635  C6   U   A 133     108.407  65.767  -9.160  1.00 38.51      A16S
ATOM   2636  C2   U   A 133     109.205  67.206  -7.421  1.00 38.51      A16S
ATOM   2637  O2   U   A 133     109.843  67.430  -6.412  1.00 38.51      A16S
ATOM   2638  N3   U   A 133     108.481  68.179  -8.048  1.00 38.51      A16S
ATOM   2639  C4   U   A 133     107.719  68.047  -9.184  1.00 38.51      A16S
ATOM   2640  O4   U   A 133     107.091  69.018  -9.604  1.00 38.51      A16S
ATOM   2641  C5   U   A 133     107.711  66.740  -9.745  1.00 38.51      A16S
ATOM   2642  C2* U   A 133     109.135  64.202  -6.260  1.00 39.76      A16S
ATOM   2643  O2* U   A 133     110.048  63.752  -5.284  1.00 39.76      A16S
ATOM   2644  C3* U   A 133     108.484  63.036  -6.980  1.00 39.76      A16S
ATOM   2645  O3* U   A 133     108.189  61.980  -6.103  1.00 39.76      A16S
ATOM   2646  P    A   A 134     106.722  61.873  -5.475  1.00 47.25      A16S
ATOM   2647  O1P A   A 134     105.823  61.275  -6.510  1.00 42.16      A16S
ATOM   2648  O2P A   A 134     106.383  63.201  -4.877  1.00 42.16      A16S
ATOM   2649  O5* A   A 134     106.935  60.851  -4.276  1.00 47.25      A16S
ATOM   2650  C5* A   A 134     107.091  59.436  -4.488  1.00 47.25      A16S
ATOM   2651  C4* A   A 134     107.689  58.818  -3.254  1.00 47.25      A16S
ATOM   2652  O4* A   A 134     109.059  59.271  -3.160  1.00 47.25      A16S
ATOM   2653  C1* A   A 134     109.368  59.613  -1.824  1.00 47.25      A16S
ATOM   2654  N9   A   A 134     109.735  61.028  -1.813  1.00 42.16      A16S
ATOM   2655  C4   A   A 134     110.407  61.717  -0.834  1.00 42.16      A16S
ATOM   2656  N3   A   A 134     110.862  61.244   0.330  1.00 42.16      A16S
ATOM   2657  C2   A   A 134     111.458  62.207   1.027  1.00 42.16      A16S
ATOM   2658  N1   A   A 134     111.643  63.488   0.715  1.00 42.16      A16S
ATOM   2659  C6   A   A 134     111.179  63.929  -0.467  1.00 42.16      A16S
ATOM   2660  N6   A   A 134     111.375  65.210  -0.795  1.00 42.16      A16S
ATOM   2661  C5   A   A 134     110.518  63.010  -1.293  1.00 42.16      A16S
ATOM   2662  N7   A   A 134     109.920  63.142  -2.537  1.00 42.16      A16S
ATOM   2663  C8   A   A 134     109.473  61.942  -2.800  1.00 42.16      A16S
ATOM   2664  C2* A   A 134     108.156  59.270  -0.953  1.00 47.25      A16S
ATOM   2665  O2* A   A 134     108.357  58.015  -0.347  1.00 47.25      A16S
ATOM   2666  C3* A   A 134     107.021  59.288  -1.970  1.00 47.25      A16S
ATOM   2667  O3* A   A 134     105.908  58.465  -1.620  1.00 47.25      A16S
ATOM   2668  P    C   A 135     104.519  59.147  -1.170  1.00 40.18      A16S
ATOM   2669  O1P C   A 135     103.547  58.043  -0.970  1.00 46.17      A16S
ATOM   2670  O2P C   A 135     104.172  60.243  -2.098  1.00 46.17      A16S
ATOM   2671  O5* C   A 135     104.874  59.823   0.227  1.00 40.18      A16S
ATOM   2672  C5* C   A 135     105.254  59.013   1.336  1.00 40.18      A16S
ATOM   2673  C4* C   A 135     105.949  59.835   2.397  1.00 40.18      A16S
ATOM   2674  O4* C   A 135     107.220  60.329   1.904  1.00 40.18      A16S
ATOM   2675  C1* C   A 135     107.527  61.557   2.543  1.00 40.18      A16S
ATOM   2676  N1   C   A 135     107.591  62.620   1.527  1.00 46.17      A16S
ATOM   2677  C6   C   A 135     106.982  62.477   0.311  1.00 46.17      A16S
ATOM   2678  C2   C   A 135     108.258  63.794   1.843  1.00 46.17      A16S
ATOM   2679  O2   C   A 135     108.840  63.874   2.936  1.00 46.17      A16S
ATOM   2680  N3   C   A 135     108.262  64.808   0.957  1.00 46.17      A16S
ATOM   2681  C4   C   A 135     107.655  64.666  -0.222  1.00 46.17      A16S
ATOM   2682  N4   C   A 135     107.694  65.694  -1.080  1.00 46.17      A16S
ATOM   2683  C5   C   A 135     106.986  63.465  -0.582  1.00 46.17      A16S
ATOM   2684  C2* C   A 135     106.397  61.852   3.530  1.00 40.18      A16S
ATOM   2685  O2* C   A 135     106.728  61.341   4.802  1.00 40.18      A16S
ATOM   2686  C3* C   A 135     105.247  61.078   2.917  1.00 40.18      A16S
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ATOM   2687  O3*  C   A 135     104.271  60.793   3.893  1.00 40.18      A16S
ATOM   2688  P    C   A 136     102.810  61.429   3.743  1.00 49.49      A16S
ATOM   2689  O1P  C   A 136     101.989  60.857   4.846  1.00 33.94      A16S
ATOM   2690  O2P  C   A 136     102.369  61.271   2.329  1.00 33.94      A16S
ATOM   2691  O5*  C   A 136     103.051  62.981   3.991  1.00 49.49      A16S
ATOM   2692  C5*  C   A 136     103.571  63.460   5.243  1.00 49.49      A16S
ATOM   2693  C4*  C   A 136     103.528  64.967   5.274  1.00 49.49      A16S
ATOM   2694  O4*  C   A 136     104.519  65.497   4.359  1.00 49.49      A16S
ATOM   2695  C1*  C   A 136     103.998  66.637   3.699  1.00 49.49      A16S
ATOM   2696  N1   C   A 136     103.923  66.348   2.262  1.00 33.94      A16S
ATOM   2697  C6   C   A 136     103.908  65.065   1.809  1.00 33.94      A16S
ATOM   2698  C2   C   A 136     103.849  67.413   1.363  1.00 33.94      A16S
ATOM   2699  O2   C   A 136     103.906  68.576   1.801  1.00 33.94      A16S
ATOM   2700  N3   C   A 136     103.728  67.154   0.040  1.00 33.94      A16S
ATOM   2701  C4   C   A 136     103.713  65.894  -0.389  1.00 33.94      A16S
ATOM   2702  N4   C   A 136     103.608  65.676  -1.697  1.00 33.94      A16S
ATOM   2703  C5   C   A 136     103.808  64.796   0.506  1.00 33.94      A16S
ATOM   2704  C2*  C   A 136     102.612  66.920   4.273  1.00 49.49      A16S
ATOM   2705  O2*  C   A 136     102.692  67.883   5.297  1.00 49.49      A16S
ATOM   2706  C3*  C   A 136     102.214  65.552   4.790  1.00 49.49      A16S
ATOM   2707  O3*  C   A 136     101.231  65.621   5.799  1.00 49.49      A16S
ATOM   2708  P    C   A 137      99.703  65.358   5.402  1.00 55.64      A16S
ATOM   2709  O1P  C   A 137      98.906  65.239   6.653  1.00 53.91      A16S
ATOM   2710  O2P  C   A 137      99.679  64.254   4.397  1.00 53.91      A16S
ATOM   2711  O5*  C   A 137      99.270  66.692   4.657  1.00 55.64      A16S
ATOM   2712  C5*  C   A 137      99.340  67.950   5.327  1.00 55.64      A16S
ATOM   2713  C4*  C   A 137      98.971  69.047   4.377  1.00 55.64      A16S
ATOM   2714  O4*  C   A 137      99.953  69.110   3.322  1.00 55.64      A16S
ATOM   2715  C1*  C   A 137      99.333  69.504   2.116  1.00 55.64      A16S
ATOM   2716  N1   C   A 137      99.646  68.513   1.068  1.00 53.91      A16S
ATOM   2717  C6   C   A 137     100.445  67.437   1.325  1.00 53.91      A16S
ATOM   2718  C2   C   A 137      99.093  68.687  -0.196  1.00 53.91      A16S
ATOM   2719  O2   C   A 137      98.406  69.685  -0.406  1.00 53.91      A16S
ATOM   2720  N3   C   A 137      99.318  67.767  -1.154  1.00 53.91      A16S
ATOM   2721  C4   C   A 137     100.070  66.703  -0.885  1.00 53.91      A16S
ATOM   2722  N4   C   A 137     100.230  65.797  -1.845  1.00 53.91      A16S
ATOM   2723  C5   C   A 137     100.680  66.515   0.385  1.00 53.91      A16S
ATOM   2724  C2*  C   A 137      97.836  69.664   2.391  1.00 55.64      A16S
ATOM   2725  O2*  C   A 137      97.528  71.031   2.572  1.00 55.64      A16S
ATOM   2726  C3*  C   A 137      97.661  68.833   3.654  1.00 55.64      A16S
ATOM   2727  O3*  C   A 137      96.578  69.263   4.460  1.00 55.64      A16S
ATOM   2728  P    G   A 138      95.216  68.406   4.492  1.00 50.07      A16S
ATOM   2729  O1P  G   A 138      94.623  68.676   5.831  1.00 45.25      A16S
ATOM   2730  O2P  G   A 138      95.462  67.003   4.069  1.00 45.25      A16S
ATOM   2731  O5*  G   A 138      94.348  69.071   3.346  1.00 50.07      A16S
ATOM   2732  C5*  G   A 138      94.269  70.484   3.237  1.00 50.07      A16S
ATOM   2733  C4*  G   A 138      93.745  70.855   1.888  1.00 50.07      A16S
ATOM   2734  O4*  G   A 138      94.802  70.789   0.902  1.00 50.07      A16S
ATOM   2735  C1*  G   A 138      94.238  70.465  -0.359  1.00 50.07      A16S
ATOM   2736  N9   G   A 138      94.903  69.294  -0.915  1.00 45.25      A16S
ATOM   2737  C4   G   A 138      94.860  68.914  -2.229  1.00 45.25      A16S
ATOM   2738  N3   G   A 138      94.233  69.577  -3.219  1.00 45.25      A16S
ATOM   2739  C2   G   A 138      94.330  68.946  -4.369  1.00 45.25      A16S
ATOM   2740  N2   G   A 138      93.751  69.463  -5.462  1.00 45.25      A16S
ATOM   2741  N1   G   A 138      94.997  67.760  -4.534  1.00 45.25      A16S
ATOM   2742  C6   G   A 138      95.649  67.063  -3.525  1.00 45.25      A16S
ATOM   2743  O6   G   A 138      96.209  65.993  -3.776  1.00 45.25      A16S
ATOM   2744  C5   G   A 138      95.553  67.730  -2.290  1.00 45.25      A16S
ATOM   2745  N7   G   A 138      96.052  67.386  -1.043  1.00 45.25      A16S
ATOM   2746  C8   G   A 138      95.646  68.346  -0.258  1.00 45.25      A16S
ATOM   2747  C2*  G   A 138      92.751  70.178  -0.155  1.00 50.07      A16S
ATOM   2748  O2*  G   A 138      91.985  71.291  -0.559  1.00 50.07      A16S
ATOM   2749  C3*  G   A 138      92.685  69.920   1.341  1.00 50.07      A16S
ATOM   2750  O3*  G   A 138      91.396  70.152   1.877  1.00 50.07      A16S
ATOM   2751  P    G   A 139      90.331  68.953   1.891  1.00 54.40      A16S
ATOM   2752  O1P  G   A 139      89.109  69.506   2.515  1.00 61.56      A16S
ATOM   2753  O2P  G   A 139      90.950  67.721   2.449  1.00 61.56      A16S
ATOM   2754  O5*  G   A 139      90.035  68.724   0.348  1.00 54.40      A16S
ATOM   2755  C5*  G   A 139      89.446  69.774  -0.398  1.00 54.40      A16S
ATOM   2756  C4*  G   A 139      89.328  69.405  -1.844  1.00 54.40      A16S
ATOM   2757  O4*  G   A 139      90.639  69.264  -2.439  1.00 54.40      A16S
ATOM   2758  C1*  G   A 139      90.553  68.398  -3.557  1.00 54.40      A16S
ATOM   2759  N9   G   A 139      91.473  67.283  -3.371  1.00 61.56      A16S
ATOM   2760  C4   G   A 139      91.838  66.375  -4.335  1.00 61.56      A16S
ATOM   2761  N3   G   A 139      91.439  66.384  -5.627  1.00 61.56      A16S
ATOM   2762  C2   G   A 139      91.933  65.359  -6.304  1.00 61.56      A16S
ATOM   2763  N2   G   A 139      91.636  65.209  -7.607  1.00 61.56      A16S
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ATOM   2764  N1  G   A 139      92.752  64.404  -5.751  1.00 61.56      A16S
ATOM   2765  C6  G   A 139      93.170  64.378  -4.423  1.00 61.56      A16S
ATOM   2766  O6  G   A 139      93.897  63.466  -4.022  1.00 61.56      A16S
ATOM   2767  C5  G   A 139      92.653  65.473  -3.693  1.00 61.56      A16S
ATOM   2768  N7  G   A 139      92.823  65.822  -2.361  1.00 61.56      A16S
ATOM   2769  C8  G   A 139      92.109  66.904  -2.217  1.00 61.56      A16S
ATOM   2770  C2* G   A 139      89.117  67.882  -3.626  1.00 54.40      A16S
ATOM   2771  O2* G   A 139      88.410  68.633  -4.593  1.00 54.40      A16S
ATOM   2772  C3* G   A 139      88.641  68.103  -2.192  1.00 54.40      A16S
ATOM   2773  O3* G   A 139      87.227  68.170  -2.078  1.00 54.40      A16S
ATOM   2774  P   A   A 140      86.409  66.851  -1.648  1.00 62.53      A16S
ATOM   2775  O1P A   A 140      85.021  67.287  -1.399  1.00 51.56      A16S
ATOM   2776  O2P A   A 140      87.145  66.132  -0.573  1.00 51.56      A16S
ATOM   2777  O5* A   A 140      86.428  65.963  -2.970  1.00 62.53      A16S
ATOM   2778  C5* A   A 140      85.905  66.488  -4.197  1.00 62.53      A16S
ATOM   2779  C4* A   A 140      86.122  65.516  -5.325  1.00 62.53      A16S
ATOM   2780  O4* A   A 140      87.528  65.463  -5.675  1.00 62.53      A16S
ATOM   2781  C1* A   A 140      87.849  64.165  -6.153  1.00 62.53      A16S
ATOM   2782  N9  A   A 140      88.881  63.585  -5.298  1.00 51.56      A16S
ATOM   2783  C4  A   A 140      89.642  62.486  -5.612  1.00 51.56      A16S
ATOM   2784  N3  A   A 140      89.597  61.761  -6.740  1.00 51.56      A16S
ATOM   2785  C2  A   A 140      90.491  60.778  -6.695  1.00 51.56      A16S
ATOM   2786  N1  A   A 140      91.351  60.460  -5.726  1.00 51.56      A16S
ATOM   2787  C6  A   A 140      91.359  61.205  -4.606  1.00 51.56      A16S
ATOM   2788  N6  A   A 140      92.204  60.885  -3.634  1.00 51.56      A16S
ATOM   2789  C5  A   A 140      90.469  62.278  -4.528  1.00 51.56      A16S
ATOM   2790  N7  A   A 140      90.235  63.225  -3.543  1.00 51.56      A16S
ATOM   2791  C8  A   A 140      89.288  63.976  -4.048  1.00 51.56      A16S
ATOM   2792  C2* A   A 140      86.579  63.318  -6.097  1.00 62.53      A16S
ATOM   2793  O2* A   A 140      85.981  63.256  -7.378  1.00 62.53      A16S
ATOM   2794  C3* A   A 140      85.759  64.068  -5.052  1.00 62.53      A16S
ATOM   2795  O3* A   A 140      84.374  63.792  -5.146  1.00 62.53      A16S
ATOM   2796  P   A   A 141      83.750  62.624  -4.239  1.00 84.95      A16S
ATOM   2797  O1P A   A 141      82.282  62.667  -4.465  1.00 50.70      A16S
ATOM   2798  O2P A   A 141      84.290  62.758  -2.856  1.00 50.70      A16S
ATOM   2799  O5* A   A 141      84.351  61.282  -4.865  1.00 84.95      A16S
ATOM   2800  C5* A   A 141      83.918  60.810  -6.159  1.00 84.95      A16S
ATOM   2801  C4* A   A 141      84.710  59.590  -6.595  1.00 84.95      A16S
ATOM   2802  O4* A   A 141      86.119  59.933  -6.695  1.00 84.95      A16S
ATOM   2803  C1* A   A 141      86.908  58.779  -6.435  1.00 84.95      A16S
ATOM   2804  N9  A   A 141      87.735  59.006  -5.250  1.00 50.70      A16S
ATOM   2805  C4  A   A 141      88.820  58.240  -4.893  1.00 50.70      A16S
ATOM   2806  N3  A   A 141      89.333  57.186  -5.559  1.00 50.70      A16S
ATOM   2807  C2  A   A 141      90.391  56.696  -4.915  1.00 50.70      A16S
ATOM   2808  N1  A   A 141      90.946  57.101  -3.768  1.00 50.70      A16S
ATOM   2809  C6  A   A 141      90.399  58.155  -3.121  1.00 50.70      A16S
ATOM   2810  N6  A   A 141      90.938  58.549  -1.964  1.00 50.70      A16S
ATOM   2811  C5  A   A 141      89.280  58.772  -3.706  1.00 50.70      A16S
ATOM   2812  N7  A   A 141      88.509  59.860  -3.325  1.00 50.70      A16S
ATOM   2813  C8  A   A 141      87.610  59.958  -4.272  1.00 50.70      A16S
ATOM   2814  C2* A   A 141      85.958  57.619  -6.166  1.00 84.95      A16S
ATOM   2815  O2* A   A 141      85.771  56.868  -7.350  1.00 84.95      A16S
ATOM   2816  C3* A   A 141      84.713  58.358  -5.698  1.00 84.95      A16S
ATOM   2817  O3* A   A 141      83.571  57.525  -5.791  1.00 84.95      A16S
ATOM   2818  P   G   A 142      83.180  56.584  -4.539  1.00 74.59      A16S
ATOM   2819  O1P G   A 142      81.828  56.052  -4.854  1.00 34.62      A16S
ATOM   2820  O2P G   A 142      83.391  57.345  -3.268  1.00 34.62      A16S
ATOM   2821  O5* G   A 142      84.243  55.389  -4.581  1.00 74.59      A16S
ATOM   2822  C5* G   A 142      84.334  54.531  -5.733  1.00 74.59      A16S
ATOM   2823  C4* G   A 142      85.554  53.630  -5.667  1.00 74.59      A16S
ATOM   2824  O4* G   A 142      86.777  54.412  -5.608  1.00 74.59      A16S
ATOM   2825  C1* G   A 142      87.773  53.692  -4.897  1.00 74.59      A16S
ATOM   2826  N9  G   A 142      88.152  54.461  -3.712  1.00 34.62      A16S
ATOM   2827  C4  G   A 142      89.259  54.277  -2.912  1.00 34.62      A16S
ATOM   2828  N3  G   A 142      90.203  53.333  -3.065  1.00 34.62      A16S
ATOM   2829  C2  G   A 142      91.148  53.424  -2.143  1.00 34.62      A16S
ATOM   2830  N2  G   A 142      92.160  52.553  -2.139  1.00 34.62      A16S
ATOM   2831  N1  G   A 142      91.165  54.369  -1.162  1.00 34.62      A16S
ATOM   2832  C6  G   A 142      90.200  55.348  -0.991  1.00 34.62      A16S
ATOM   2833  O6  G   A 142      90.303  56.160  -0.071  1.00 34.62      A16S
ATOM   2834  C5  G   A 142      89.187  55.258  -1.959  1.00 34.62      A16S
ATOM   2835  N7  G   A 142      88.061  56.039  -2.139  1.00 34.62      A16S
ATOM   2836  C8  G   A 142      87.476  55.527  -3.182  1.00 34.62      A16S
ATOM   2837  C2* G   A 142      87.173  52.335  -4.549  1.00 74.59      A16S
ATOM   2838  O2* G   A 142      87.468  51.463  -5.621  1.00 74.59      A16S
ATOM   2839  C3* G   A 142      85.684  52.653  -4.512  1.00 74.59      A16S
ATOM   2840  O3* G   A 142      84.909  51.476  -4.718  1.00 74.59      A16S
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ATOM   2841  P    A   A 143      84.530  50.537  -3.461  1.00 85.52      A16S
ATOM   2842  O1P A   A 143      83.608  49.495  -3.977  1.00 89.53      A16S
ATOM   2843  O2P A   A 143      84.115  51.390  -2.320  1.00 89.53      A16S
ATOM   2844  O5* A   A 143      85.898  49.836  -3.053  1.00 85.52      A16S
ATOM   2845  C5* A   A 143      86.559  48.936  -3.956  1.00 85.52      A16S
ATOM   2846  C4* A   A 143      87.835  48.424  -3.339  1.00 85.52      A16S
ATOM   2847  O4* A   A 143      88.757  49.524  -3.155  1.00 85.52      A16S
ATOM   2848  C1* A   A 143      89.459  49.365  -1.936  1.00 85.52      A16S
ATOM   2849  N9   A   A 143      89.093  50.470  -1.057  1.00 89.53      A16S
ATOM   2850  C4   A   A 143      89.868  50.981  -0.050  1.00 89.53      A16S
ATOM   2851  N3   A   A 143      91.086  50.560   0.327  1.00 89.53      A16S
ATOM   2852  C2   A   A 143      91.538  51.294   1.337  1.00 89.53      A16S
ATOM   2853  N1   A   A 143      90.960  52.331   1.963  1.00 89.53      A16S
ATOM   2854  C6   A   A 143      89.734  52.732   1.554  1.00 89.53      A16S
ATOM   2855  N6   A   A 143      89.159  53.776   2.170  1.00 89.53      A16S
ATOM   2856  C5   A   A 143      89.138  52.022   0.495  1.00 89.53      A16S
ATOM   2857  N7   A   A 143      87.914  52.153  -0.147  1.00 89.53      A16S
ATOM   2858  C8   A   A 143      87.935  51.210  -1.055  1.00 89.53      A16S
ATOM   2859  C2* A   A 143      89.049  48.024  -1.337  1.00 85.52      A16S
ATOM   2860  O2* A   A 143      89.984  47.042  -1.730  1.00 85.52      A16S
ATOM   2861  C3* A   A 143      87.670  47.833  -1.952  1.00 85.52      A16S
ATOM   2862  O3* A   A 143      87.271  46.478  -2.009  1.00 85.52      A16S
ATOM   2863  P    G   A 144      86.371  45.874  -0.833  1.00 83.20      A16S
ATOM   2864  O1P G   A 144      85.370  46.904  -0.446  1.00 67.08      A16S
ATOM   2865  O2P G   A 144      87.292  45.326   0.186  1.00 67.08      A16S
ATOM   2866  O5* G   A 144      85.622  44.662  -1.533  1.00 83.20      A16S
ATOM   2867  C5* G   A 144      84.203  44.682  -1.710  1.00 83.20      A16S
ATOM   2868  C4* G   A 144      83.828  43.851  -2.901  1.00 83.20      A16S
ATOM   2869  O4* G   A 144      84.290  44.526  -4.098  1.00 83.20      A16S
ATOM   2870  C1* G   A 144      84.727  43.567  -5.046  1.00 83.20      A16S
ATOM   2871  N9   G   A 144      86.152  43.776  -5.292  1.00 67.08      A16S
ATOM   2872  C4   G   A 144      86.882  43.210  -6.305  1.00 67.08      A16S
ATOM   2873  N3   G   A 144      86.402  42.387  -7.255  1.00 67.08      A16S
ATOM   2874  C2   G   A 144      87.347  41.982  -8.072  1.00 67.08      A16S
ATOM   2875  N2   G   A 144      87.042  41.151  -9.064  1.00 67.08      A16S
ATOM   2876  N1   G   A 144      88.660  42.357  -7.975  1.00 67.08      A16S
ATOM   2877  C6   G   A 144      89.180  43.200  -7.003  1.00 67.08      A16S
ATOM   2878  O6   G   A 144      90.389  43.462  -6.994  1.00 67.08      A16S
ATOM   2879  C5   G   A 144      88.177  43.644  -6.114  1.00 67.08      A16S
ATOM   2880  N7   G   A 144      88.259  44.482  -5.009  1.00 67.08      A16S
ATOM   2881  C8   G   A 144      87.033  44.538  -4.558  1.00 67.08      A16S
ATOM   2882  C2* G   A 144      84.474  42.176  -4.456  1.00 83.20      A16S
ATOM   2883  O2* G   A 144      83.246  41.653  -4.927  1.00 83.20      A16S
ATOM   2884  C3* G   A 144      84.478  42.475  -2.962  1.00 83.20      A16S
ATOM   2885  O3* G   A 144      83.806  41.485  -2.181  1.00 83.20      A16S
ATOM   2886  P    G   A 145      84.661  40.308  -1.478  1.00 82.98      A16S
ATOM   2887  O1P G   A 145      83.692  39.497  -0.692  1.00 78.93      A16S
ATOM   2888  O2P G   A 145      85.845  40.903  -0.791  1.00 78.93      A16S
ATOM   2889  O5* G   A 145      85.176  39.424  -2.707  1.00 82.98      A16S
ATOM   2890  C5* G   A 145      84.232  38.759  -3.568  1.00 82.98      A16S
ATOM   2891  C4* G   A 145      84.934  37.975  -4.656  1.00 82.98      A16S
ATOM   2892  O4* G   A 145      85.452  38.864  -5.679  1.00 82.98      A16S
ATOM   2893  C1* G   A 145      86.609  38.285  -6.270  1.00 82.98      A16S
ATOM   2894  N9   G   A 145      87.760  39.155  -6.028  1.00 78.93      A16S
ATOM   2895  C4   G   A 145      88.992  39.066  -6.633  1.00 78.93      A16S
ATOM   2896  N3   G   A 145      89.339  38.185  -7.587  1.00 78.93      A16S
ATOM   2897  C2   G   A 145      90.588  38.336  -7.962  1.00 78.93      A16S
ATOM   2898  N2   G   A 145      91.093  37.547  -8.913  1.00 78.93      A16S
ATOM   2899  N1   G   A 145      91.436  39.272  -7.436  1.00 78.93      A16S
ATOM   2900  C6   G   A 145      91.102  40.187  -6.446  1.00 78.93      A16S
ATOM   2901  O6   G   A 145      91.953  40.991  -6.028  1.00 78.93      A16S
ATOM   2902  C5   G   A 145      89.761  40.042  -6.044  1.00 78.93      A16S
ATOM   2903  N7   G   A 145      89.028  40.746  -5.103  1.00 78.93      A16S
ATOM   2904  C8   G   A 145      87.848  40.193  -5.132  1.00 78.93      A16S
ATOM   2905  C2* G   A 145      86.826  36.925  -5.606  1.00 82.98      A16S
ATOM   2906  O2* G   A 145      86.240  35.905  -6.391  1.00 82.98      A16S
ATOM   2907  C3* G   A 145      86.123  37.115  -4.269  1.00 82.98      A16S
ATOM   2908  O3* G   A 145      85.767  35.867  -3.708  1.00 82.98      A16S
ATOM   2909  P    G   A 146      86.847  35.057  -2.835  1.00 75.45      A16S
ATOM   2910  O1P G   A 146      86.120  33.902  -2.265  1.00 75.21      A16S
ATOM   2911  O2P G   A 146      87.531  36.011  -1.923  1.00 75.21      A16S
ATOM   2912  O5* G   A 146      87.906  34.507  -3.903  1.00 75.45      A16S
ATOM   2913  C5* G   A 146      87.495  33.586  -4.938  1.00 75.45      A16S
ATOM   2914  C4* G   A 146      88.604  33.353  -5.950  1.00 75.45      A16S
ATOM   2915  O4* G   A 146      88.998  34.607  -6.559  1.00 75.45      A16S
ATOM   2916  C1* G   A 146      90.366  34.542  -6.944  1.00 75.45      A16S
ATOM   2917  N9   G   A 146      91.120  35.562  -6.219  1.00 75.21      A16S
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ATOM   2918  C4  G   A 146      92.341  36.087  -6.574  1.00 75.21      A16S
ATOM   2919  N3  G   A 146      93.055  35.766  -7.670  1.00 75.21      A16S
ATOM   2920  C2  G   A 146      94.180  36.448  -7.738  1.00 75.21      A16S
ATOM   2921  N2  G   A 146      95.002  36.259  -8.765  1.00 75.21      A16S
ATOM   2922  N1  G   A 146      94.580  37.369  -6.804  1.00 75.21      A16S
ATOM   2923  C6  G   A 146      93.858  37.716  -5.664  1.00 75.21      A16S
ATOM   2924  O6  G   A 146      94.300  38.575  -4.877  1.00 75.21      A16S
ATOM   2925  C5  G   A 146      92.649  36.991  -5.582  1.00 75.21      A16S
ATOM   2926  N7  G   A 146      91.648  37.031  -4.625  1.00 75.21      A16S
ATOM   2927  C8  G   A 146      90.764  36.172  -5.044  1.00 75.21      A16S
ATOM   2928  C2* G   A 146      90.880  33.153  -6.583  1.00 75.45      A16S
ATOM   2929  O2* G   A 146      90.801  32.316  -7.720  1.00 75.45      A16S
ATOM   2930  C3* G   A 146      89.916  32.741  -5.478  1.00 75.45      A16S
ATOM   2931  O3* G   A 146      89.872  31.325  -5.399  1.00 75.45      A16S
ATOM   2932  P   G   A 147      91.054  30.534  -4.646  1.00 78.66      A16S
ATOM   2933  O1P G   A 147      90.676  29.101  -4.673  1.00 76.33      A16S
ATOM   2934  O2P G   A 147      91.322  31.200  -3.345  1.00 76.33      A16S
ATOM   2935  O5* G   A 147      92.339  30.736  -5.567  1.00 78.66      A16S
ATOM   2936  C5* G   A 147      92.533  29.941  -6.745  1.00 78.66      A16S
ATOM   2937  C4* G   A 147      93.875  30.238  -7.371  1.00 78.66      A16S
ATOM   2938  O4* G   A 147      93.936  31.649  -7.717  1.00 78.66      A16S
ATOM   2939  C1* G   A 147      95.276  32.109  -7.618  1.00 78.66      A16S
ATOM   2940  N9  G   A 147      95.370  33.117  -6.568  1.00 76.33      A16S
ATOM   2941  C4  G   A 147      96.469  33.898  -6.307  1.00 76.33      A16S
ATOM   2942  N3  G   A 147      97.617  33.911  -7.019  1.00 76.33      A16S
ATOM   2943  C2  G   A 147      98.503  34.748  -6.513  1.00 76.33      A16S
ATOM   2944  N2  G   A 147      99.697  34.902  -7.117  1.00 76.33      A16S
ATOM   2945  N1  G   A 147      98.282  35.498  -5.381  1.00 76.33      A16S
ATOM   2946  C6  G   A 147      97.108  35.490  -4.628  1.00 76.33      A16S
ATOM   2947  O6  G   A 147      97.015  36.192  -3.610  1.00 76.33      A16S
ATOM   2948  C5  G   A 147      96.147  34.615  -5.177  1.00 76.33      A16S
ATOM   2949  N7  G   A 147      94.858  34.325  -4.760  1.00 76.33      A16S
ATOM   2950  C8  G   A 147      94.433  33.439  -5.618  1.00 76.33      A16S
ATOM   2951  C2* G   A 147      96.133  30.918  -7.207  1.00 78.66      A16S
ATOM   2952  O2* G   A 147      96.694  30.321  -8.357  1.00 78.66      A16S
ATOM   2953  C3* G   A 147      95.112  30.031  -6.512  1.00 78.66      A16S
ATOM   2954  O3* G   A 147      95.579  28.692  -6.433  1.00 78.66      A16S
ATOM   2955  P   G   A 148      96.572  28.279  -5.233  1.00 68.60      A16S
ATOM   2956  O1P G   A 148      96.775  26.811  -5.258  1.00 69.70      A16S
ATOM   2957  O2P G   A 148      96.050  28.920  -4.004  1.00 69.70      A16S
ATOM   2958  O5* G   A 148      97.962  28.977  -5.599  1.00 68.60      A16S
ATOM   2959  C5* G   A 148      98.580  28.767  -6.887  1.00 68.60      A16S
ATOM   2960  C4* G   A 148      99.838  29.603  -7.028  1.00 68.60      A16S
ATOM   2961  O4* G   A 148      99.523  31.014  -6.934  1.00 68.60      A16S
ATOM   2962  C1* G   A 148     100.599  31.705  -6.309  1.00 68.60      A16S
ATOM   2963  N9  G   A 148     100.094  32.382  -5.114  1.00 69.70      A16S
ATOM   2964  C4  G   A 148     100.781  33.261  -4.301  1.00 69.70      A16S
ATOM   2965  N3  G   A 148     102.052  33.674  -4.465  1.00 69.70      A16S
ATOM   2966  C2  G   A 148     102.421  34.511  -3.515  1.00 69.70      A16S
ATOM   2967  N2  G   A 148     103.646  35.031  -3.523  1.00 69.70      A16S
ATOM   2968  N1  G   A 148     101.615  34.903  -2.485  1.00 69.70      A16S
ATOM   2969  C6  G   A 148     100.306  34.486  -2.296  1.00 69.70      A16S
ATOM   2970  O6  G   A 148      99.661  34.889  -1.326  1.00 69.70      A16S
ATOM   2971  C5  G   A 148      99.893  33.604  -3.306  1.00 69.70      A16S
ATOM   2972  N7  G   A 148      98.673  32.972  -3.492  1.00 69.70      A16S
ATOM   2973  C8  G   A 148      98.837  32.260  -4.571  1.00 69.70      A16S
ATOM   2974  C2* G   A 148     101.695  30.682  -6.007  1.00 68.60      A16S
ATOM   2975  O2* G   A 148     102.647  30.697  -7.048  1.00 68.60      A16S
ATOM   2976  C3* G   A 148     100.913  29.378  -5.982  1.00 68.60      A16S
ATOM   2977  O3* G   A 148     101.741  28.295  -6.351  1.00 68.60      A16S
ATOM   2978  P   A   A 149     102.603  27.537  -5.231  1.00 57.58      A16S
ATOM   2979  O1P A   A 149     102.881  26.170  -5.763  1.00 58.85      A16S
ATOM   2980  O2P A   A 149     101.923  27.696  -3.911  1.00 58.85      A16S
ATOM   2981  O5* A   A 149     103.966  28.356  -5.164  1.00 57.58      A16S
ATOM   2982  C5* A   A 149     104.680  28.697  -6.358  1.00 57.58      A16S
ATOM   2983  C4* A   A 149     105.695  29.778  -6.071  1.00 57.58      A16S
ATOM   2984  O4* A   A 149     105.028  30.995  -5.645  1.00 57.58      A16S
ATOM   2985  C1* A   A 149     105.839  31.673  -4.702  1.00 57.58      A16S
ATOM   2986  N9  A   A 149     105.057  31.922  -3.488  1.00 58.85      A16S
ATOM   2987  C4  A   A 149     105.394  32.799  -2.486  1.00 58.85      A16S
ATOM   2988  N3  A   A 149     106.500  33.551  -2.403  1.00 58.85      A16S
ATOM   2989  C2  A   A 149     106.470  34.303  -1.315  1.00 58.85      A16S
ATOM   2990  N1  A   A 149     105.533  34.389  -0.374  1.00 58.85      A16S
ATOM   2991  C6  A   A 149     104.435  33.625  -0.487  1.00 58.85      A16S
ATOM   2992  N6  A   A 149     103.494  33.730   0.447  1.00 58.85      A16S
ATOM   2993  C5  A   A 149     104.347  32.770  -1.591  1.00 58.85      A16S
ATOM   2994  N7  A   A 149     103.378  31.867  -1.999  1.00 58.85      A16S
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ATOM   2995  C8  A   A 149     103.849  31.385  -3.121  1.00 58.85      A16S
ATOM   2996  C2* A   A 149     107.111  30.854  -4.490  1.00 57.58      A16S
ATOM   2997  O2* A   A 149     108.143  31.378  -5.298  1.00 57.58      A16S
ATOM   2998  C3* A   A 149     106.677  29.473  -4.957  1.00 57.58      A16S
ATOM   2999  O3* A   A 149     107.777  28.731  -5.441  1.00 57.58      A16S
ATOM   3000  P   C   A 150     108.776  28.047  -4.395  1.00 45.26      A16S
ATOM   3001  O1P C   A 150     109.775  27.240  -5.145  1.00 41.73      A16S
ATOM   3002  O2P C   A 150     107.973  27.409  -3.315  1.00 41.73      A16S
ATOM   3003  O5* C   A 150     109.526  29.284  -3.739  1.00 45.26      A16S
ATOM   3004  C5* C   A 150     110.430  30.101  -4.493  1.00 45.26      A16S
ATOM   3005  C4* C   A 150     111.004  31.152  -3.590  1.00 45.26      A16S
ATOM   3006  O4* C   A 150     109.930  31.997  -3.107  1.00 45.26      A16S
ATOM   3007  C1* C   A 150     110.157  32.333  -1.756  1.00 45.26      A16S
ATOM   3008  N1  C   A 150     108.977  31.943  -0.968  1.00 41.73      A16S
ATOM   3009  C6  C   A 150     108.152  30.941  -1.390  1.00 41.73      A16S
ATOM   3010  C2  C   A 150     108.702  32.627   0.226  1.00 41.73      A16S
ATOM   3011  O2  C   A 150     109.466  33.531   0.596  1.00 41.73      A16S
ATOM   3012  N3  C   A 150     107.609  32.290   0.941  1.00 41.73      A16S
ATOM   3013  C4  C   A 150     106.803  31.329   0.506  1.00 41.73      A16S
ATOM   3014  N4  C   A 150     105.720  31.055   1.225  1.00 41.73      A16S
ATOM   3015  C5  C   A 150     107.065  30.608  -0.692  1.00 41.73      A16S
ATOM   3016  C2* C   A 150     111.460  31.672  -1.309  1.00 45.26      A16S
ATOM   3017  O2* C   A 150     112.510  32.611  -1.329  1.00 45.26      A16S
ATOM   3018  C3* C   A 150     111.627  30.566  -2.341  1.00 45.26      A16S
ATOM   3019  O3* C   A 150     112.986  30.228  -2.582  1.00 45.26      A16S
ATOM   3020  P   A   A 151     113.808  29.406  -1.474  1.00 36.69      A16S
ATOM   3021  O1P A   A 151     115.269  29.545  -1.777  1.00 46.45      A16S
ATOM   3022  O2P A   A 151     113.194  28.051  -1.344  1.00 46.45      A16S
ATOM   3023  O5* A   A 151     113.501  30.197  -0.132  1.00 36.69      A16S
ATOM   3024  C5* A   A 151     114.205  29.922   1.072  1.00 36.69      A16S
ATOM   3025  C4* A   A 151     114.424  31.206   1.819  1.00 36.69      A16S
ATOM   3026  O4* A   A 151     113.232  32.015   1.732  1.00 36.69      A16S
ATOM   3027  C1* A   A 151     113.037  32.692   2.947  1.00 36.69      A16S
ATOM   3028  N9  A   A 151     111.700  32.369   3.435  1.00 46.45      A16S
ATOM   3029  C4  A   A 151     111.081  32.887   4.545  1.00 46.45      A16S
ATOM   3030  N3  A   A 151     111.586  33.762   5.428  1.00 46.45      A16S
ATOM   3031  C2  A   A 151     110.680  34.076   6.342  1.00 46.45      A16S
ATOM   3032  N1  A   A 151     109.426  33.642   6.470  1.00 46.45      A16S
ATOM   3033  C6  A   A 151     108.956  32.751   5.571  1.00 46.45      A16S
ATOM   3034  N6  A   A 151     107.705  32.304   5.696  1.00 46.45      A16S
ATOM   3035  C5  A   A 151     109.812  32.345   4.553  1.00 46.45      A16S
ATOM   3036  N7  A   A 151     109.638  31.479   3.486  1.00 46.45      A16S
ATOM   3037  C8  A   A 151     110.786  31.521   2.860  1.00 46.45      A16S
ATOM   3038  C2* A   A 151     114.196  32.347   3.882  1.00 36.69      A16S
ATOM   3039  O2* A   A 151     115.163  33.352   3.736  1.00 36.69      A16S
ATOM   3040  C3* A   A 151     114.713  31.045   3.295  1.00 36.69      A16S
ATOM   3041  O3* A   A 151     116.118  30.932   3.482  1.00 36.69      A16S
ATOM   3042  P   A   A 152     116.696  29.874   4.535  1.00 53.68      A16S
ATOM   3043  O1P A   A 152     118.127  30.203   4.765  1.00 46.23      A16S
ATOM   3044  O2P A   A 152     116.323  28.510   4.081  1.00 46.23      A16S
ATOM   3045  O5* A   A 152     115.879  30.204   5.860  1.00 53.68      A16S
ATOM   3046  C5* A   A 152     116.084  31.448   6.533  1.00 53.68      A16S
ATOM   3047  C4* A   A 152     115.034  31.669   7.588  1.00 53.68      A16S
ATOM   3048  O4* A   A 152     113.743  31.888   6.979  1.00 53.68      A16S
ATOM   3049  C1* A   A 152     112.736  31.515   7.895  1.00 53.68      A16S
ATOM   3050  N9  A   A 152     111.849  30.560   7.250  1.00 46.23      A16S
ATOM   3051  C4  A   A 152     110.606  30.200   7.707  1.00 46.23      A16S
ATOM   3052  N3  A   A 152     109.970  30.671   8.793  1.00 46.23      A16S
ATOM   3053  C2  A   A 152     108.796  30.065   8.949  1.00 46.23      A16S
ATOM   3054  N1  A   A 152     108.230  29.108   8.203  1.00 46.23      A16S
ATOM   3055  C6  A   A 152     108.903  28.655   7.121  1.00 46.23      A16S
ATOM   3056  N6  A   A 152     108.358  27.685   6.389  1.00 46.23      A16S
ATOM   3057  C5  A   A 152     110.152  29.231   6.839  1.00 46.23      A16S
ATOM   3058  N7  A   A 152     111.078  29.006   5.831  1.00 46.23      A16S
ATOM   3059  C8  A   A 152     112.062  29.823   6.119  1.00 46.23      A16S
ATOM   3060  C2* A   A 152     113.415  30.911   9.127  1.00 53.68      A16S
ATOM   3061  O2* A   A 152     113.503  31.874  10.161  1.00 53.68      A16S
ATOM   3062  C3* A   A 152     114.785  30.551   8.581  1.00 53.68      A16S
ATOM   3063  O3* A   A 152     115.752  30.534   9.615  1.00 53.68      A16S
ATOM   3064  P   C   A 153     116.627  29.212   9.846  1.00 60.13      A16S
ATOM   3065  O1P C   A 153     117.398  29.408  11.099  1.00 63.19      A16S
ATOM   3066  O2P C   A 153     117.351  28.928   8.582  1.00 63.19      A16S
ATOM   3067  O5* C   A 153     115.534  28.075  10.069  1.00 60.13      A16S
ATOM   3068  C5* C   A 153     114.716  28.085  11.247  1.00 60.13      A16S
ATOM   3069  C4* C   A 153     113.619  27.055  11.146  1.00 60.13      A16S
ATOM   3070  O4* C   A 153     112.695  27.423  10.097  1.00 60.13      A16S
ATOM   3071  C1* C   A 153     112.200  26.255   9.471  1.00 60.13      A16S
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ATOM   3072  N1  C   A 153     112.638  26.270   8.074  1.00 63.19      A16S
ATOM   3073  C6  C   A 153     113.799  26.896   7.713  1.00 63.19      A16S
ATOM   3074  C2  C   A 153     111.849  25.629   7.114  1.00 63.19      A16S
ATOM   3075  O2  C   A 153     110.799  25.058   7.473  1.00 63.19      A16S
ATOM   3076  N3  C   A 153     112.249  25.646   5.824  1.00 63.19      A16S
ATOM   3077  C4  C   A 153     113.382  26.266   5.486  1.00 63.19      A16S
ATOM   3078  N4  C   A 153     113.733  26.264   4.212  1.00 63.19      A16S
ATOM   3079  C5  C   A 153     114.203  26.917   6.444  1.00 63.19      A16S
ATOM   3080  C2* C   A 153     112.780  25.049  10.200  1.00 60.13      A16S
ATOM   3081  O2* C   A 153     111.848  24.605  11.166  1.00 60.13      A16S
ATOM   3082  C3* C   A 153     114.047  25.640  10.801  1.00 60.13      A16S
ATOM   3083  O3* C   A 153     114.466  24.922  11.947  1.00 60.13      A16S
ATOM   3084  P   C   A 154     115.511  23.720  11.784  1.00 89.87      A16S
ATOM   3085  O1P C   A 154     115.625  23.132  13.138  1.00 82.69      A16S
ATOM   3086  O2P C   A 154     116.731  24.210  11.087  1.00 82.69      A16S
ATOM   3087  O5* C   A 154     114.770  22.691  10.821  1.00 89.87      A16S
ATOM   3088  C5* C   A 154     113.648  21.913  11.283  1.00 89.87      A16S
ATOM   3089  C4* C   A 154     113.280  20.869  10.257  1.00 89.87      A16S
ATOM   3090  O4* C   A 154     112.676  21.508   9.101  1.00 89.87      A16S
ATOM   3091  C1* C   A 154     113.084  20.843   7.913  1.00 89.87      A16S
ATOM   3092  N1  C   A 154     113.874  21.787   7.095  1.00 82.69      A16S
ATOM   3093  C6  C   A 154     114.575  22.795   7.691  1.00 82.69      A16S
ATOM   3094  C2  C   A 154     113.917  21.628   5.700  1.00 82.69      A16S
ATOM   3095  O2  C   A 154     113.267  20.717   5.171  1.00 82.69      A16S
ATOM   3096  N3  C   A 154     114.670  22.472   4.968  1.00 82.69      A16S
ATOM   3097  C4  C   A 154     115.361  23.442   5.569  1.00 82.69      A16S
ATOM   3098  N4  C   A 154     116.105  24.248   4.816  1.00 82.69      A16S
ATOM   3099  C5  C   A 154     115.325  23.631   6.974  1.00 82.69      A16S
ATOM   3100  C2* C   A 154     113.933  19.643   8.332  1.00 89.87      A16S
ATOM   3101  O2* C   A 154     113.132  18.484   8.428  1.00 89.87      A16S
ATOM   3102  C3* C   A 154     114.455  20.098   9.684  1.00 89.87      A16S
ATOM   3103  O3* C   A 154     114.869  19.014  10.488  1.00 89.87      A16S
ATOM   3104  P   C   A 155     116.396  18.528  10.413  1.00 89.18      A16S
ATOM   3105  O1P C   A 155     116.568  17.473  11.444  1.00121.30      A16S
ATOM   3106  O2P C   A 155     117.261  19.736  10.450  1.00121.30      A16S
ATOM   3107  O5* C   A 155     116.523  17.874   8.964  1.00 89.18      A16S
ATOM   3108  C5* C   A 155     115.876  16.624   8.667  1.00 89.18      A16S
ATOM   3109  C4* C   A 155     116.161  16.197   7.245  1.00 89.18      A16S
ATOM   3110  O4* C   A 155     115.576  17.158   6.326  1.00 89.18      A16S
ATOM   3111  C1* C   A 155     116.385  17.261   5.161  1.00 89.18      A16S
ATOM   3112  N1  C   A 155     116.905  18.636   5.062  1.00121.30      A16S
ATOM   3113  C6  C   A 155     117.073  19.404   6.181  1.00121.30      A16S
ATOM   3114  C2  C   A 155     117.253  19.141   3.801  1.00121.30      A16S
ATOM   3115  O2  C   A 155     117.068  18.439   2.797  1.00121.30      A16S
ATOM   3116  N3  C   A 155     117.780  20.381   3.710  1.00121.30      A16S
ATOM   3117  C4  C   A 155     117.959  21.111   4.813  1.00121.30      A16S
ATOM   3118  N4  C   A 155     118.504  22.321   4.682  1.00121.30      A16S
ATOM   3119  C5  C   A 155     117.592  20.633   6.102  1.00121.30      A16S
ATOM   3120  C2* C   A 155     117.537  16.268   5.312  1.00 89.18      A16S
ATOM   3121  O2* C   A 155     117.232  15.050   4.655  1.00 89.18      A16S
ATOM   3122  C3* C   A 155     117.622  16.130   6.826  1.00 89.18      A16S
ATOM   3123  O3* C   A 155     118.288  14.939   7.206  1.00 89.18      A16S
ATOM   3124  P   G   A 156     119.882  14.966   7.404  1.00 91.97      A16S
ATOM   3125  O1P G   A 156     120.256  13.667   8.018  1.00106.20      A16S
ATOM   3126  O2P G   A 156     120.245  16.228   8.091  1.00106.20      A16S
ATOM   3127  O5* G   A 156     120.472  15.030   5.920  1.00 91.97      A16S
ATOM   3128  C5* G   A 156     120.590  13.828   5.133  1.00 91.97      A16S
ATOM   3129  C4* G   A 156     120.985  14.135   3.703  1.00 91.97      A16S
ATOM   3130  O4* G   A 156     120.059  15.103   3.140  1.00 91.97      A16S
ATOM   3131  C1* G   A 156     120.731  15.905   2.177  1.00 91.97      A16S
ATOM   3132  N9  G   A 156     120.811  17.276   2.674  1.00106.20      A16S
ATOM   3133  C4  G   A 156     121.262  18.368   1.968  1.00106.20      A16S
ATOM   3134  N3  G   A 156     121.648  18.371   0.677  1.00106.20      A16S
ATOM   3135  C2  G   A 156     122.058  19.560   0.288  1.00106.20      A16S
ATOM   3136  N2  G   A 156     122.455  19.742  -0.973  1.00106.20      A16S
ATOM   3137  N1  G   A 156     122.104  20.658   1.106  1.00106.20      A16S
ATOM   3138  C6  G   A 156     121.717  20.678   2.442  1.00106.20      A16S
ATOM   3139  O6  G   A 156     121.808  21.725   3.098  1.00106.20      A16S
ATOM   3140  C5  G   A 156     121.256  19.411   2.866  1.00106.20      A16S
ATOM   3141  N7  G   A 156     120.774  18.997   4.101  1.00106.20      A16S
ATOM   3142  C8  G   A 156     120.514  17.729   3.938  1.00106.20      A16S
ATOM   3143  C2* G   A 156     122.154  15.366   2.061  1.00 91.97      A16S
ATOM   3144  O2* G   A 156     122.238  14.409   1.020  1.00 91.97      A16S
ATOM   3145  C3* G   A 156     122.351  14.752   3.437  1.00 91.97      A16S
ATOM   3146  O3* G   A 156     123.436  13.840   3.414  1.00 91.97      A16S
ATOM   3147  P   G   A 157     124.935  14.409   3.551  1.00 85.81      A16S
ATOM   3148  O1P G   A 157     125.852  13.245   3.573  1.00112.30      A16S
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ATOM   3149  O2P G   A 157     124.957  15.381   4.674  1.00112.30      A16S
ATOM   3150  O5* G   A 157     125.187  15.192   2.187  1.00 85.81      A16S
ATOM   3151  C5* G   A 157     125.273  14.462   0.954  1.00 85.81      A16S
ATOM   3152  C4* G   A 157     125.930  15.291  -0.122  1.00 85.81      A16S
ATOM   3153  O4* G   A 157     125.023  16.322  -0.590  1.00 85.81      A16S
ATOM   3154  C1* G   A 157     125.761  17.477  -0.959  1.00 85.81      A16S
ATOM   3155  N9  G   A 157     125.470  18.540   0.002  1.00112.30      A16S
ATOM   3156  C4  G   A 157     125.785  19.873  -0.135  1.00112.30      A16S
ATOM   3157  N3  G   A 157     126.364  20.442  -1.211  1.00112.30      A16S
ATOM   3158  C2  G   A 157     126.570  21.731  -1.036  1.00112.30      A16S
ATOM   3159  N2  G   A 157     127.126  22.450  -2.015  1.00112.30      A16S
ATOM   3160  N1  G   A 157     126.245  22.414   0.112  1.00112.30      A16S
ATOM   3161  C6  G   A 157     125.657  21.851   1.240  1.00112.30      A16S
ATOM   3162  O6  G   A 157     125.425  22.557   2.238  1.00112.30      A16S
ATOM   3163  C5  G   A 157     125.412  20.463   1.055  1.00112.30      A16S
ATOM   3164  N7  G   A 157     124.837  19.530   1.907  1.00112.30      A16S
ATOM   3165  C8  G   A 157     124.885  18.408   1.240  1.00112.30      A16S
ATOM   3166  C2* G   A 157     127.236  17.109  -0.836  1.00 85.81      A16S
ATOM   3167  O2* G   A 157     127.702  16.568  -2.056  1.00 85.81      A16S
ATOM   3168  C3* G   A 157     127.183  16.057   0.255  1.00 85.81      A16S
ATOM   3169  O3* G   A 157     128.358  15.280   0.288  1.00 85.81      A16S
ATOM   3170  P   G   A 158     129.572  15.745   1.231  1.00103.30      A16S
ATOM   3171  O1P G   A 158     130.525  14.616   1.331  1.00101.02      A16S
ATOM   3172  O2P G   A 158     128.979  16.314   2.473  1.00101.02      A16S
ATOM   3173  O5* G   A 158     130.280  16.905   0.394  1.00103.30      A16S
ATOM   3174  C5* G   A 158     130.766  16.646  -0.939  1.00103.30      A16S
ATOM   3175  C4* G   A 158     131.214  17.926  -1.617  1.00103.30      A16S
ATOM   3176  O4* G   A 158     130.084  18.819  -1.805  1.00103.30      A16S
ATOM   3177  C1* G   A 158     130.518  20.168  -1.715  1.00103.30      A16S
ATOM   3178  N9  G   A 158     129.859  20.801  -0.571  1.00101.02      A16S
ATOM   3179  C4  G   A 158     129.888  22.142  -0.248  1.00101.02      A16S
ATOM   3180  N3  G   A 158     130.518  23.114  -0.943  1.00101.02      A16S
ATOM   3181  C2  G   A 158     130.372  24.298  -0.380  1.00101.02      A16S
ATOM   3182  N2  G   A 158     130.932  25.373  -0.948  1.00101.02      A16S
ATOM   3183  N1  G   A 158     129.666  24.515   0.777  1.00101.02      A16S
ATOM   3184  C6  G   A 158     129.009  23.532   1.510  1.00101.02      A16S
ATOM   3185  O6  G   A 158     128.397  23.834   2.542  1.00101.02      A16S
ATOM   3186  C5  G   A 158     129.156  22.254   0.915  1.00101.02      A16S
ATOM   3187  N7  G   A 158     128.670  21.016   1.314  1.00101.02      A16S
ATOM   3188  C8  G   A 158     129.109  20.187   0.405  1.00101.02      A16S
ATOM   3189  C2* G   A 158     132.034  20.145  -1.532  1.00103.30      A16S
ATOM   3190  O2* G   A 158     132.674  20.263  -2.791  1.00103.30      A16S
ATOM   3191  C3* G   A 158     132.239  18.780  -0.891  1.00103.30      A16S
ATOM   3192  O3* G   A 158     133.571  18.330  -1.044  1.00103.30      A16S
ATOM   3193  P   G   A 159     134.637  18.656   0.107  1.00125.82      A16S
ATOM   3194  O1P G   A 159     135.944  18.111  -0.331  1.00 89.50      A16S
ATOM   3195  O2P G   A 159     134.064  18.243   1.413  1.00 89.50      A16S
ATOM   3196  O5* G   A 159     134.708  20.246   0.117  1.00125.82      A16S
ATOM   3197  C5* G   A 159     135.482  20.969  -0.859  1.00125.82      A16S
ATOM   3198  C4* G   A 159     135.801  22.345  -0.334  1.00125.82      A16S
ATOM   3199  O4* G   A 159     134.583  23.124  -0.262  1.00125.82      A16S
ATOM   3200  C1* G   A 159     134.585  23.909   0.918  1.00125.82      A16S
ATOM   3201  N9  G   A 159     133.458  23.483   1.739  1.00 89.50      A16S
ATOM   3202  C4  G   A 159     132.953  24.117   2.854  1.00 89.50      A16S
ATOM   3203  N3  G   A 159     133.410  25.269   3.394  1.00 89.50      A16S
ATOM   3204  C2  G   A 159     132.718  25.621   4.468  1.00 89.50      A16S
ATOM   3205  N2  G   A 159     133.034  26.745   5.127  1.00 89.50      A16S
ATOM   3206  N1  G   A 159     131.665  24.899   4.973  1.00 89.50      A16S
ATOM   3207  C6  G   A 159     131.175  23.714   4.430  1.00 89.50      A16S
ATOM   3208  O6  G   A 159     130.212  23.141   4.960  1.00 89.50      A16S
ATOM   3209  C5  G   A 159     131.906  23.328   3.277  1.00 89.50      A16S
ATOM   3210  N7  G   A 159     131.753  22.228   2.446  1.00 89.50      A16S
ATOM   3211  C8  G   A 159     132.691  22.362   1.552  1.00 89.50      A16S
ATOM   3212  C2* G   A 159     135.927  23.702   1.620  1.00125.82      A16S
ATOM   3213  O2* G   A 159     136.821  24.731   1.249  1.00125.82      A16S
ATOM   3214  C3* G   A 159     136.347  22.343   1.084  1.00125.82      A16S
ATOM   3215  O3* G   A 159     137.753  22.177   1.094  1.00125.82      A16S
ATOM   3216  P   A   A 160     138.454  21.477   2.353  1.00 90.72      A16S
ATOM   3217  O1P A   A 160     139.924  21.669   2.199  1.00139.08      A16S
ATOM   3218  O2P A   A 160     137.902  20.103   2.501  1.00139.08      A16S
ATOM   3219  O5* A   A 160     137.968  22.337   3.598  1.00 90.72      A16S
ATOM   3220  C5* A   A 160     138.409  22.001   4.914  1.00 90.72      A16S
ATOM   3221  C4* A   A 160     138.966  23.218   5.609  1.00 90.72      A16S
ATOM   3222  O4* A   A 160     140.130  23.721   4.902  1.00 90.72      A16S
ATOM   3223  C1* A   A 160     140.198  25.130   5.046  1.00 90.72      A16S
ATOM   3224  N9  A   A 160     140.222  25.745   3.717  1.00139.08      A16S
ATOM   3225  C4  A   A 160     140.660  27.016   3.429  1.00139.08      A16S
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ATOM   3226  N3  A   A 160     141.158  27.922   4.288  1.00139.08      A16S
ATOM   3227  C2  A   A 160     141.477  29.043   3.652  1.00139.08      A16S
ATOM   3228  N1  A   A 160     141.362  29.341   2.354  1.00139.08      A16S
ATOM   3229  C6  A   A 160     140.856  28.409   1.518  1.00139.08      A16S
ATOM   3230  N6  A   A 160     140.735  28.707   0.222  1.00139.08      A16S
ATOM   3231  C5  A   A 160     140.483  27.176   2.067  1.00139.08      A16S
ATOM   3232  N7  A   A 160     139.951  26.027   1.502  1.00139.08      A16S
ATOM   3233  C8  A   A 160     139.816  25.210   2.517  1.00139.08      A16S
ATOM   3234  C2* A   A 160     139.002  25.572   5.891  1.00 90.72      A16S
ATOM   3235  O2* A   A 160     139.410  25.698   7.236  1.00 90.72      A16S
ATOM   3236  C3* A   A 160     138.036  24.412   5.696  1.00 90.72      A16S
ATOM   3237  O3* A   A 160     137.130  24.270   6.778  1.00 90.72      A16S
ATOM   3238  P   A   A 161     135.572  24.553   6.538  1.00108.56      A16S
ATOM   3239  O1P A   A 161     134.838  24.057   7.732  1.00 88.29      A16S
ATOM   3240  O2P A   A 161     135.229  24.024   5.193  1.00 88.29      A16S
ATOM   3241  O5* A   A 161     135.488  26.145   6.502  1.00108.56      A16S
ATOM   3242  C5* A   A 161     135.962  26.928   7.620  1.00108.56      A16S
ATOM   3243  C4* A   A 161     136.506  28.263   7.154  1.00108.56      A16S
ATOM   3244  O4* A   A 161     137.493  28.045   6.114  1.00108.56      A16S
ATOM   3245  C1* A   A 161     137.450  29.109   5.181  1.00108.56      A16S
ATOM   3246  N9  A   A 161     137.111  28.553   3.873  1.00 88.29      A16S
ATOM   3247  C4  A   A 161     137.426  29.095   2.652  1.00 88.29      A16S
ATOM   3248  N3  A   A 161     138.097  30.230   2.418  1.00 88.29      A16S
ATOM   3249  C2  A   A 161     138.226  30.432   1.112  1.00 88.29      A16S
ATOM   3250  N1  A   A 161     137.795  29.685   0.090  1.00 88.29      A16S
ATOM   3251  C6  A   A 161     137.121  28.552   0.360  1.00 88.29      A16S
ATOM   3252  N6  A   A 161     136.690  27.806  -0.661  1.00 88.29      A16S
ATOM   3253  C5  A   A 161     136.915  28.225   1.709  1.00 88.29      A16S
ATOM   3254  N7  A   A 161     136.276  27.158   2.322  1.00 88.29      A16S
ATOM   3255  C8  A   A 161     136.421  27.399   3.601  1.00 88.29      A16S
ATOM   3256  C2* A   A 161     136.415  30.118   5.678  1.00108.56      A16S
ATOM   3257  O2* A   A 161     137.075  31.111   6.439  1.00108.56      A16S
ATOM   3258  C3* A   A 161     135.518  29.242   6.541  1.00108.56      A16S
ATOM   3259  O3* A   A 161     134.871  30.013   7.540  1.00108.56      A16S
ATOM   3260  P   A   A 162     133.368  30.518   7.298  1.00100.57      A16S
ATOM   3261  O1P A   A 162     132.932  31.247   8.522  1.00 92.94      A16S
ATOM   3262  O2P A   A 162     132.575  29.363   6.810  1.00 92.94      A16S
ATOM   3263  O5* A   A 162     133.490  31.564   6.101  1.00100.57      A16S
ATOM   3264  C5* A   A 162     133.823  32.951   6.343  1.00100.57      A16S
ATOM   3265  C4* A   A 162     133.810  33.716   5.041  1.00100.57      A16S
ATOM   3266  O4* A   A 162     134.750  33.075   4.143  1.00100.57      A16S
ATOM   3267  C1* A   A 162     134.211  33.032   2.837  1.00100.57      A16S
ATOM   3268  N9  A   A 162     134.077  31.627   2.440  1.00 92.94      A16S
ATOM   3269  C4  A   A 162     134.122  31.146   1.153  1.00 92.94      A16S
ATOM   3270  N3  A   A 162     134.306  31.854   0.024  1.00 92.94      A16S
ATOM   3271  C2  A   A 162     134.288  31.054  -1.039  1.00 92.94      A16S
ATOM   3272  N1  A   A 162     134.117  29.728  -1.101  1.00 92.94      A16S
ATOM   3273  C6  A   A 162     133.934  29.046   0.049  1.00 92.94      A16S
ATOM   3274  N6  A   A 162     133.765  27.725  -0.019  1.00 92.94      A16S
ATOM   3275  C5  A   A 162     133.935  29.780   1.253  1.00 92.94      A16S
ATOM   3276  N7  A   A 162     133.781  29.403   2.580  1.00 92.94      A16S
ATOM   3277  C8  A   A 162     133.874  30.530   3.241  1.00 92.94      A16S
ATOM   3278  C2* A   A 162     132.878  33.784   2.850  1.00100.57      A16S
ATOM   3279  O2* A   A 162     133.064  35.121   2.438  1.00100.57      A16S
ATOM   3280  C3* A   A 162     132.474  33.683   4.312  1.00100.57      A16S
ATOM   3281  O3* A   A 162     131.650  34.785   4.677  1.00100.57      A16S
ATOM   3282  P   C   A 163     130.306  34.535   5.522  1.00 83.03      A16S
ATOM   3283  O1P C   A 163     129.482  35.766   5.415  1.00126.06      A16S
ATOM   3284  O2P C   A 163     130.708  34.037   6.867  1.00126.06      A16S
ATOM   3285  O5* C   A 163     129.557  33.351   4.760  1.00 83.03      A16S
ATOM   3286  C5* C   A 163     128.723  33.593   3.610  1.00 83.03      A16S
ATOM   3287  C4* C   A 163     129.362  33.000   2.377  1.00 83.03      A16S
ATOM   3288  O4* C   A 163     130.438  32.110   2.771  1.00 83.03      A16S
ATOM   3289  C1* C   A 163     130.457  30.967   1.932  1.00 83.03      A16S
ATOM   3290  N1  C   A 163     130.111  29.787   2.756  1.00126.06      A16S
ATOM   3291  C6  C   A 163     129.682  29.937   4.047  1.00126.06      A16S
ATOM   3292  C2  C   A 163     130.206  28.504   2.191  1.00126.06      A16S
ATOM   3293  O2  C   A 163     130.626  28.384   1.030  1.00126.06      A16S
ATOM   3294  N3  C   A 163     129.836  27.431   2.929  1.00126.06      A16S
ATOM   3295  C4  C   A 163     129.396  27.599   4.180  1.00126.06      A16S
ATOM   3296  N4  C   A 163     129.019  26.517   4.864  1.00126.06      A16S
ATOM   3297  C5  C   A 163     129.318  28.883   4.785  1.00126.06      A16S
ATOM   3298  C2* C   A 163     129.429  31.209   0.826  1.00 83.03      A16S
ATOM   3299  O2* C   A 163     130.050  31.819  -0.286  1.00 83.03      A16S
ATOM   3300  C3* C   A 163     128.450  32.143   1.518  1.00 83.03      A16S
ATOM   3301  O3* C   A 163     127.693  32.894   0.588  1.00 83.03      A16S
ATOM   3302  P   U   A 164     126.295  32.310   0.059  1.00116.56      A16S
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ATOM   3303  O1P U   A 164     125.800  33.202  -1.020  1.00 89.29      A16S
ATOM   3304  O2P U   A 164     125.434  32.021   1.235  1.00 89.29      A16S
ATOM   3305  O5* U   A 164     126.696  30.924  -0.607  1.00116.56      A16S
ATOM   3306  C5* U   A 164     127.549  30.885  -1.763  1.00116.56      A16S
ATOM   3307  C4* U   A 164     127.567  29.495  -2.344  1.00116.56      A16S
ATOM   3308  O4* U   A 164     128.197  28.587  -1.407  1.00116.56      A16S
ATOM   3309  C1* U   A 164     127.562  27.322  -1.471  1.00116.56      A16S
ATOM   3310  N1  U   A 164     127.045  26.970  -0.137  1.00 89.29      A16S
ATOM   3311  C6  U   A 164     127.173  27.816   0.940  1.00 89.29      A16S
ATOM   3312  C2  U   A 164     126.423  25.738   0.004  1.00 89.29      A16S
ATOM   3313  O2  U   A 164     126.278  24.958  -0.923  1.00 89.29      A16S
ATOM   3314  N3  U   A 164     125.977  25.451   1.268  1.00 89.29      A16S
ATOM   3315  C4  U   A 164     126.081  26.245   2.383  1.00 89.29      A16S
ATOM   3316  O4  U   A 164     125.644  25.832   3.460  1.00 89.29      A16S
ATOM   3317  C5  U   A 164     126.726  27.503   2.161  1.00 89.29      A16S
ATOM   3318  C2* U   A 164     126.479  27.395  -2.548  1.00116.56      A16S
ATOM   3319  O2* U   A 164     127.010  26.891  -3.755  1.00116.56      A16S
ATOM   3320  C3* U   A 164     126.198  28.889  -2.604  1.00116.56      A16S
ATOM   3321  O3* U   A 164     125.683  29.304  -3.861  1.00116.56      A16S
ATOM   3322  P   C   A 165     124.113  29.150  -4.171  1.00 93.02      A16S
ATOM   3323  O1P C   A 165     123.862  29.887  -5.437  1.00 80.35      A16S
ATOM   3324  O2P C   A 165     123.319  29.482  -2.956  1.00 80.35      A16S
ATOM   3325  O5* C   A 165     123.951  27.599  -4.482  1.00 93.02      A16S
ATOM   3326  C5* C   A 165     124.605  27.016  -5.625  1.00 93.02      A16S
ATOM   3327  C4* C   A 165     124.335  25.535  -5.691  1.00 93.02      A16S
ATOM   3328  O4* C   A 165     124.992  24.863  -4.588  1.00 93.02      A16S
ATOM   3329  C1* C   A 165     124.194  23.778  -4.152  1.00 93.02      A16S
ATOM   3330  N1  C   A 165     123.788  24.025  -2.763  1.00 80.35      A16S
ATOM   3331  C6  C   A 165     123.682  25.297  -2.273  1.00 80.35      A16S
ATOM   3332  C2  C   A 165     123.501  22.934  -1.951  1.00 80.35      A16S
ATOM   3333  O2  C   A 165     123.596  21.792  -2.428  1.00 80.35      A16S
ATOM   3334  N3  C   A 165     123.118  23.145  -0.673  1.00 80.35      A16S
ATOM   3335  C4  C   A 165     123.012  24.389  -0.205  1.00 80.35      A16S
ATOM   3336  N4  C   A 165     122.625  24.551   1.061  1.00 80.35      A16S
ATOM   3337  C5  C   A 165     123.297  25.522  -1.014  1.00 80.35      A16S
ATOM   3338  C2* C   A 165     122.974  23.700  -5.065  1.00 93.02      A16S
ATOM   3339  O2* C   A 165     123.220  22.787  -6.113  1.00 93.02      A16S
ATOM   3340  C3* C   A 165     122.880  25.133  -5.560  1.00 93.02      A16S
ATOM   3341  O3* C   A 165     122.183  25.222  -6.780  1.00 93.02      A16S
ATOM   3342  P   G   A 166     120.583  25.276  -6.757  1.00 71.61      A16S
ATOM   3343  O1P G   A 166     120.132  25.451  -8.167  1.00 85.75      A16S
ATOM   3344  O2P G   A 166     120.158  26.255  -5.716  1.00 85.75      A16S
ATOM   3345  O5* G   A 166     120.166  23.823  -6.253  1.00 71.61      A16S
ATOM   3346  C5* G   A 166     120.369  22.667  -7.086  1.00 71.61      A16S
ATOM   3347  C4* G   A 166     119.849  21.428  -6.404  1.00 71.61      A16S
ATOM   3348  O4* G   A 166     120.670  21.107  -5.252  1.00 71.61      A16S
ATOM   3349  C1* G   A 166     119.869  20.498  -4.251  1.00 71.61      A16S
ATOM   3350  N9  G   A 166     119.983  21.275  -3.021  1.00 85.75      A16S
ATOM   3351  C4  G   A 166     119.580  20.885  -1.766  1.00 85.75      A16S
ATOM   3352  N3  G   A 166     119.025  19.700  -1.442  1.00 85.75      A16S
ATOM   3353  C2  G   A 166     118.722  19.630  -0.155  1.00 85.75      A16S
ATOM   3354  N2  G   A 166     118.158  18.522   0.341  1.00 85.75      A16S
ATOM   3355  N1  G   A 166     118.946  20.642   0.738  1.00 85.75      A16S
ATOM   3356  C6  G   A 166     119.515  21.870   0.425  1.00 85.75      A16S
ATOM   3357  O6  G   A 166     119.669  22.718   1.308  1.00 85.75      A16S
ATOM   3358  C5  G   A 166     119.848  21.957  -0.948  1.00 85.75      A16S
ATOM   3359  N7  G   A 166     120.426  22.992  -1.667  1.00 85.75      A16S
ATOM   3360  C8  G   A 166     120.490  22.542  -2.889  1.00 85.75      A16S
ATOM   3361  C2* G   A 166     118.432  20.437  -4.774  1.00 71.61      A16S
ATOM   3362  O2* G   A 166     118.173  19.152  -5.297  1.00 71.61      A16S
ATOM   3363  C3* G   A 166     118.442  21.519  -5.847  1.00 71.61      A16S
ATOM   3364  O3* G   A 166     117.467  21.293  -6.843  1.00 71.61      A16S
ATOM   3365  P   G   A 167     115.963  21.792  -6.595  1.00 48.78      A16S
ATOM   3366  O1P G   A 167     115.213  21.531  -7.852  1.00 87.25      A16S
ATOM   3367  O2P G   A 167     115.990  23.164  -6.031  1.00 87.25      A16S
ATOM   3368  O5* G   A 167     115.423  20.829  -5.444  1.00 48.78      A16S
ATOM   3369  C5* G   A 167     115.307  19.412  -5.671  1.00 48.78      A16S
ATOM   3370  C4* G   A 167     114.772  18.711  -4.446  1.00 48.78      A16S
ATOM   3371  O4* G   A 167     115.758  18.711  -3.385  1.00 48.78      A16S
ATOM   3372  C1* G   A 167     115.099  18.759  -2.133  1.00 48.78      A16S
ATOM   3373  N9  G   A 167     115.574  19.918  -1.391  1.00 87.25      A16S
ATOM   3374  C4  G   A 167     115.293  20.200  -0.080  1.00 87.25      A16S
ATOM   3375  N3  G   A 167     114.525  19.455   0.742  1.00 87.25      A16S
ATOM   3376  C2  G   A 167     114.433  19.985   1.949  1.00 87.25      A16S
ATOM   3377  N2  G   A 167     113.703  19.372   2.894  1.00 87.25      A16S
ATOM   3378  N1  G   A 167     115.050  21.155   2.317  1.00 87.25      A16S
ATOM   3379  C6  G   A 167     115.845  21.936   1.483  1.00 87.25      A16S
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ATOM   3380  O6  G   A 167     116.355  22.970   1.913  1.00 87.25      A16S
ATOM   3381  C5  G   A 167     115.947  21.379   0.189  1.00 87.25      A16S
ATOM   3382  N7  G   A 167     116.625  21.832  -0.933  1.00 87.25      A16S
ATOM   3383  C8  G   A 167     116.373  20.936  -1.845  1.00 87.25      A16S
ATOM   3384  C2* G   A 167     113.593  18.823  -2.390  1.00 48.78      A16S
ATOM   3385  O2* G   A 167     113.034  17.539  -2.230  1.00 48.78      A16S
ATOM   3386  C3* G   A 167     113.539  19.329  -3.823  1.00 48.78      A16S
ATOM   3387  O3* G   A 167     112.367  18.910  -4.482  1.00 48.78      A16S
ATOM   3388  P   G   A 168     111.047  19.813  -4.382  1.00 41.52      A16S
ATOM   3389  O1P G   A 168     109.960  19.172  -5.178  1.00 81.31      A16S
ATOM   3390  O2P G   A 168     111.440  21.219  -4.680  1.00 81.31      A16S
ATOM   3391  O5* G   A 168     110.638  19.733  -2.846  1.00 41.52      A16S
ATOM   3392  C5* G   A 168     110.049  18.547  -2.304  1.00 41.52      A16S
ATOM   3393  C4* G   A 168     109.624  18.778  -0.879  1.00 41.52      A16S
ATOM   3394  O4* G   A 168     110.792  18.981  -0.042  1.00 41.52      A16S
ATOM   3395  C1* G   A 168     110.461  19.853   1.028  1.00 41.52      A16S
ATOM   3396  N9  G   A 168     111.362  21.001   1.002  1.00 81.31      A16S
ATOM   3397  C4  G   A 168     111.584  21.891   2.027  1.00 81.31      A16S
ATOM   3398  N3  G   A 168     111.026  21.845   3.255  1.00 81.31      A16S
ATOM   3399  C2  G   A 168     111.433  22.841   4.017  1.00 81.31      A16S
ATOM   3400  N2  G   A 168     110.986  22.945   5.272  1.00 81.31      A16S
ATOM   3401  N1  G   A 168     112.309  23.806   3.602  1.00 81.31      A16S
ATOM   3402  C6  G   A 168     112.886  23.871   2.339  1.00 81.31      A16S
ATOM   3403  O6  G   A 168     113.656  24.788   2.057  1.00 81.31      A16S
ATOM   3404  C5  G   A 168     112.470  22.811   1.523  1.00 81.31      A16S
ATOM   3405  N7  G   A 168     112.813  22.503   0.217  1.00 81.31      A16S
ATOM   3406  C8  G   A 168     112.137  21.423  -0.049  1.00 81.31      A16S
ATOM   3407  C2* G   A 168     108.996  20.262   0.861  1.00 41.52      A16S
ATOM   3408  O2* G   A 168     108.181  19.459   1.689  1.00 41.52      A16S
ATOM   3409  C3* G   A 168     108.759  19.995  -0.617  1.00 41.52      A16S
ATOM   3410  O3* G   A 168     107.393  19.749  -0.872  1.00 41.52      A16S
ATOM   3411  P   C   A 169     106.396  20.991  -1.057  1.00 53.59      A16S
ATOM   3412  O1P C   A 169     105.058  20.495  -1.468  1.00 69.08      A16S
ATOM   3413  O2P C   A 169     107.103  21.998  -1.892  1.00 69.08      A16S
ATOM   3414  O5* C   A 169     106.241  21.588   0.407  1.00 53.59      A16S
ATOM   3415  C5* C   A 169     105.615  20.822   1.445  1.00 53.59      A16S
ATOM   3416  C4* C   A 169     105.519  21.627   2.722  1.00 53.59      A16S
ATOM   3417  O4* C   A 169     106.836  21.895   3.271  1.00 53.59      A16S
ATOM   3418  C1* C   A 169     106.760  23.031   4.104  1.00 53.59      A16S
ATOM   3419  N1  C   A 169     107.898  23.926   3.856  1.00 69.08      A16S
ATOM   3420  C6  C   A 169     108.506  23.995   2.635  1.00 69.08      A16S
ATOM   3421  C2  C   A 169     108.337  24.736   4.909  1.00 69.08      A16S
ATOM   3422  O2  C   A 169     107.782  24.635   6.018  1.00 69.08      A16S
ATOM   3423  N3  C   A 169     109.347  25.606   4.699  1.00 69.08      A16S
ATOM   3424  C4  C   A 169     109.915  25.685   3.498  1.00 69.08      A16S
ATOM   3425  N4  C   A 169     110.886  26.580   3.332  1.00 69.08      A16S
ATOM   3426  C5  C   A 169     109.508  24.854   2.413  1.00 69.08      A16S
ATOM   3427  C2* C   A 169     105.403  23.693   3.880  1.00 53.59      A16S
ATOM   3428  O2* C   A 169     104.605  23.390   4.996  1.00 53.59      A16S
ATOM   3429  C3* C   A 169     104.905  23.006   2.614  1.00 53.59      A16S
ATOM   3430  O3* C   A 169     103.490  22.943   2.582  1.00 53.59      A16S
ATOM   3431  P   U   A 170     102.677  24.069   1.777  1.00 51.88      A16S
ATOM   3432  O1P U   A 170     101.230  23.747   1.778  1.00 48.72      A16S
ATOM   3433  O2P U   A 170     103.379  24.237   0.483  1.00 48.72      A16S
ATOM   3434  O5* U   A 170     102.898  25.385   2.653  1.00 51.88      A16S
ATOM   3435  C5* U   A 170     102.475  25.422   4.031  1.00 51.88      A16S
ATOM   3436  C4* U   A 170     102.853  26.736   4.690  1.00 51.88      A16S
ATOM   3437  O4* U   A 170     104.270  26.808   4.973  1.00 51.88      A16S
ATOM   3438  C1* U   A 170     104.699  28.149   4.876  1.00 51.88      A16S
ATOM   3439  N1  U   A 170     105.763  28.209   3.867  1.00 48.72      A16S
ATOM   3440  C6  U   A 170     105.676  27.516   2.685  1.00 48.72      A16S
ATOM   3441  C2  U   A 170     106.875  28.965   4.162  1.00 48.72      A16S
ATOM   3442  O2  U   A 170     106.961  29.646   5.173  1.00 48.72      A16S
ATOM   3443  N3  U   A 170     107.881  28.905   3.228  1.00 48.72      A16S
ATOM   3444  C4  U   A 170     107.875  28.201   2.047  1.00 48.72      A16S
ATOM   3445  O4  U   A 170     108.896  28.162   1.362  1.00 48.72      A16S
ATOM   3446  C5  U   A 170     106.666  27.489   1.790  1.00 48.72      A16S
ATOM   3447  C2* U   A 170     103.479  29.015   4.561  1.00 51.88      A16S
ATOM   3448  O2* U   A 170     102.938  29.506   5.770  1.00 51.88      A16S
ATOM   3449  C3* U   A 170     102.538  28.005   3.926  1.00 51.88      A16S
ATOM   3450  O3* U   A 170     101.192  28.376   4.140  1.00 51.88      A16S
ATOM   3451  P   A   A 171     100.527  29.492   3.207  1.00 38.09      A16S
ATOM   3452  O1P A   A 171      99.066  29.214   3.094  1.00 46.89      A16S
ATOM   3453  O2P A   A 171     101.357  29.552   1.976  1.00 46.89      A16S
ATOM   3454  O5* A   A 171     100.758  30.841   4.026  1.00 38.09      A16S
ATOM   3455  C5* A   A 171     100.327  30.958   5.398  1.00 38.09      A16S
ATOM   3456  C4* A   A 171     100.619  32.344   5.935  1.00 38.09      A16S
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ATOM	3457	O4*	A	A 171	102.009	32.465	6.338	1.00	38.09	A16S
ATOM	3458	C1*	A	A 171	102.453	33.789	6.119	1.00	38.09	A16S
ATOM	3459	N9	A	A 171	103.585	33.752	5.187	1.00	46.89	A16S
ATOM	3460	C4	A	A 171	104.748	34.490	5.251	1.00	46.89	A16S
ATOM	3461	N3	A	A 171	105.084	35.421	6.157	1.00	46.89	A16S
ATOM	3462	C2	A	A 171	106.303	35.890	5.919	1.00	46.89	A16S
ATOM	3463	N1	A	A 171	107.158	35.563	4.953	1.00	46.89	A16S
ATOM	3464	C6	A	A 171	106.785	34.634	4.057	1.00	46.89	A16S
ATOM	3465	N6	A	A 171	107.637	34.303	3.095	1.00	46.89	A16S
ATOM	3466	C5	A	A 171	105.521	34.063	4.195	1.00	46.89	A16S
ATOM	3467	N7	A	A 171	104.854	33.102	3.459	1.00	46.89	A16S
ATOM	3468	C8	A	A 171	103.714	32.958	4.082	1.00	46.89	A16S
ATOM	3469	C2*	A	A 171	101.259	34.588	5.603	1.00	38.09	A16S
ATOM	3470	O2*	A	A 171	100.603	35.155	6.712	1.00	38.09	A16S
ATOM	3471	C3*	A	A 171	100.402	33.501	4.982	1.00	38.09	A16S
ATOM	3472	O3*	A	A 171	99.044	33.889	4.868	1.00	38.09	A16S
ATOM	3473	P	A	A 172	98.574	34.688	3.553	1.00	50.00	A16S
ATOM	3474	O1P	A	A 172	97.091	34.811	3.506	1.00	35.59	A16S
ATOM	3475	O2P	A	A 172	99.292	34.088	2.389	1.00	35.59	A16S
ATOM	3476	O5*	A	A 172	99.139	36.151	3.810	1.00	50.00	A16S
ATOM	3477	C5*	A	A 172	98.721	36.893	4.963	1.00	50.00	A16S
ATOM	3478	C4*	A	A 172	99.570	38.119	5.124	1.00	50.00	A16S
ATOM	3479	O4*	A	A 172	100.932	37.713	5.396	1.00	50.00	A16S
ATOM	3480	C1*	A	A 172	101.824	38.621	4.787	1.00	50.00	A16S
ATOM	3481	N9	A	A 172	102.661	37.895	3.827	1.00	35.59	A16S
ATOM	3482	C4	A	A 172	103.999	38.127	3.613	1.00	35.59	A16S
ATOM	3483	N3	A	A 172	104.776	39.033	4.230	1.00	35.59	A16S
ATOM	3484	C2	A	A 172	106.012	38.971	3.771	1.00	35.59	A16S
ATOM	3485	N1	A	A 172	106.526	38.172	2.837	1.00	35.59	A16S
ATOM	3486	C6	A	A 172	105.723	37.281	2.234	1.00	35.59	A16S
ATOM	3487	N6	A	A 172	106.248	36.493	1.307	1.00	35.59	A16S
ATOM	3488	C5	A	A 172	104.384	37.242	2.628	1.00	35.59	A16S
ATOM	3489	N7	A	A 172	103.313	36.467	2.218	1.00	35.59	A16S
ATOM	3490	C8	A	A 172	102.316	36.890	2.961	1.00	35.59	A16S
ATOM	3491	C2*	A	A 172	100.991	39.716	4.119	1.00	50.00	A16S
ATOM	3492	O2*	A	A 172	100.844	40.821	4.993	1.00	50.00	A16S
ATOM	3493	C3*	A	A 172	99.675	38.997	3.890	1.00	50.00	A16S
ATOM	3494	O3*	A	A 172	98.589	39.902	3.750	1.00	50.00	A16S
ATOM	3495	P	U	A 173	98.170	40.413	2.282	1.00	34.98	A16S
ATOM	3496	O1P	U	A 173	98.631	39.414	1.288	1.00	60.05	A16S
ATOM	3497	O2P	U	A 173	96.742	40.821	2.304	1.00	60.05	A16S
ATOM	3498	O5*	U	A 173	99.087	41.690	2.031	1.00	34.98	A16S
ATOM	3499	C5*	U	A 173	98.876	42.928	2.731	1.00	34.98	A16S
ATOM	3500	C4*	U	A 173	99.800	44.005	2.189	1.00	34.98	A16S
ATOM	3501	O4*	U	A 173	99.646	45.178	3.027	1.00	34.98	A16S
ATOM	3502	C1*	U	A 173	100.889	45.529	3.591	1.00	34.98	A16S
ATOM	3503	N1	U	A 173	100.651	46.167	4.896	1.00	60.05	A16S
ATOM	3504	C6	U	A 173	99.425	46.089	5.508	1.00	60.05	A16S
ATOM	3505	C2	U	A 173	101.692	46.880	5.479	1.00	60.05	A16S
ATOM	3506	O2	U	A 173	102.816	46.956	4.997	1.00	60.05	A16S
ATOM	3507	N3	U	A 173	101.371	47.505	6.655	1.00	60.05	A16S
ATOM	3508	C4	U	A 173	100.158	47.484	7.297	1.00	60.05	A16S
ATOM	3509	O4	U	A 173	100.014	48.144	8.320	1.00	60.05	A16S
ATOM	3510	C5	U	A 173	99.151	46.706	6.653	1.00	60.05	A16S
ATOM	3511	C2*	U	A 173	101.741	44.260	3.540	1.00	34.98	A16S
ATOM	3512	O2*	U	A 173	103.116	44.563	3.571	1.00	34.98	A16S
ATOM	3513	C3*	U	A 173	101.293	43.668	2.206	1.00	34.98	A16S
ATOM	3514	O3*	U	A 173	101.961	44.398	1.157	1.00	34.98	A16S
ATOM	3515	P	C	A 174	102.067	43.799	-0.339	1.00	39.23	A16S
ATOM	3516	O1P	C	A 174	102.637	44.865	-1.194	1.00	54.57	A16S
ATOM	3517	O2P	C	A 174	100.790	43.162	-0.734	1.00	54.57	A16S
ATOM	3518	O5*	C	A 174	103.191	42.690	-0.233	1.00	39.23	A16S
ATOM	3519	C5*	C	A 174	104.554	43.069	-0.055	1.00	39.23	A16S
ATOM	3520	C4*	C	A 174	105.447	42.107	-0.779	1.00	39.23	A16S
ATOM	3521	O4*	C	A 174	105.440	40.842	-0.076	1.00	39.23	A16S
ATOM	3522	C1*	C	A 174	105.379	39.774	-1.008	1.00	39.23	A16S
ATOM	3523	N1	C	A 174	104.093	39.074	-0.808	1.00	54.57	A16S
ATOM	3524	C6	C	A 174	103.122	39.618	-0.019	1.00	54.57	A16S
ATOM	3525	C2	C	A 174	103.874	37.857	-1.442	1.00	54.57	A16S
ATOM	3526	O2	C	A 174	104.768	37.378	-2.141	1.00	54.57	A16S
ATOM	3527	N3	C	A 174	102.692	37.233	-1.282	1.00	54.57	A16S
ATOM	3528	C4	C	A 174	101.747	37.785	-0.526	1.00	54.57	A16S
ATOM	3529	N4	C	A 174	100.586	37.155	-0.418	1.00	54.57	A16S
ATOM	3530	C5	C	A 174	101.946	39.013	0.146	1.00	54.57	A16S
ATOM	3531	C2*	C	A 174	105.527	40.381	-2.407	1.00	39.23	A16S
ATOM	3532	O2*	C	A 174	106.891	40.385	-2.786	1.00	39.23	A16S
ATOM	3533	C3*	C	A 174	104.978	41.782	-2.185	1.00	39.23	A16S

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ATOM   3534  O3* C   A 174     105.423  42.740  -3.136  1.00 39.23      A16S
ATOM   3535  P   C   A 175     104.403  43.251  -4.268  1.00 48.82      A16S
ATOM   3536  O1P C   A 175     105.036  44.387  -4.981  1.00 65.33      A16S
ATOM   3537  O2P C   A 175     103.069  43.446  -3.644  1.00 65.33      A16S
ATOM   3538  O5* C   A 175     104.336  42.013  -5.267  1.00 48.82      A16S
ATOM   3539  C5* C   A 175     105.496  41.637  -6.024  1.00 48.82      A16S
ATOM   3540  C4* C   A 175     105.190  40.451  -6.898  1.00 48.82      A16S
ATOM   3541  O4* C   A 175     104.967  39.301  -6.051  1.00 48.82      A16S
ATOM   3542  C1* C   A 175     103.945  38.492  -6.607  1.00 48.82      A16S
ATOM   3543  N1  C   A 175     102.835  38.421  -5.635  1.00 65.33      A16S
ATOM   3544  C6  C   A 175     102.669  39.396  -4.694  1.00 65.33      A16S
ATOM   3545  C2  C   A 175     101.953  37.336  -5.684  1.00 65.33      A16S
ATOM   3546  O2  C   A 175     102.113  36.461  -6.555  1.00 65.33      A16S
ATOM   3547  N3  C   A 175     100.947  37.266  -4.786  1.00 65.33      A16S
ATOM   3548  C4  C   A 175     100.801  38.222  -3.875  1.00 65.33      A16S
ATOM   3549  N4  C   A 175      99.795  38.113  -3.014  1.00 65.33      A16S
ATOM   3550  C5  C   A 175     101.678  39.332  -3.805  1.00 65.33      A16S
ATOM   3551  C2* C   A 175     103.532  39.111  -7.944  1.00 48.82      A16S
ATOM   3552  O2* C   A 175     104.247  38.541  -9.018  1.00 48.82      A16S
ATOM   3553  C3* C   A 175     103.931  40.561  -7.744  1.00 48.82      A16S
ATOM   3554  O3* C   A 175     104.122  41.198  -8.996  1.00 48.82      A16S
ATOM   3555  P   C   A 176     102.841  41.774  -9.775  1.00 45.04      A16S
ATOM   3556  O1P C   A 176     103.300  42.438 -11.016  1.00 77.52      A16S
ATOM   3557  O2P C   A 176     102.016  42.538  -8.811  1.00 77.52      A16S
ATOM   3558  O5* C   A 176     102.028  40.468 -10.189  1.00 45.04      A16S
ATOM   3559  C5* C   A 176     102.546  39.557 -11.170  1.00 45.04      A16S
ATOM   3560  C4* C   A 176     101.554  38.453 -11.432  1.00 45.04      A16S
ATOM   3561  O4* C   A 176     101.333  37.725 -10.201  1.00 45.04      A16S
ATOM   3562  C1* C   A 176      99.983  37.309 -10.118  1.00 45.04      A16S
ATOM   3563  N1  C   A 176      99.393  37.879  -8.894  1.00 77.52      A16S
ATOM   3564  C6  C   A 176     100.130  38.683  -8.072  1.00 77.52      A16S
ATOM   3565  C2  C   A 176      98.064  37.594  -8.588  1.00 77.52      A16S
ATOM   3566  O2  C   A 176      97.427  36.840  -9.335  1.00 77.52      A16S
ATOM   3567  N3  C   A 176      97.507  38.142  -7.487  1.00 77.52      A16S
ATOM   3568  C4  C   A 176      98.234  38.938  -6.699  1.00 77.52      A16S
ATOM   3569  N4  C   A 176      97.647  39.475  -5.627  1.00 77.52      A16S
ATOM   3570  C5  C   A 176      99.597  39.226  -6.976  1.00 77.52      A16S
ATOM   3571  C2* C   A 176      99.287  37.746 -11.409  1.00 45.04      A16S
ATOM   3572  O2* C   A 176      99.286  36.653 -12.300  1.00 45.04      A16S
ATOM   3573  C3* C   A 176     100.173  38.895 -11.876  1.00 45.04      A16S
ATOM   3574  O3* C   A 176     100.130  39.077 -13.286  1.00 45.04      A16S
ATOM   3575  P   C   A 177      99.010  40.031 -13.933  1.00 51.76      A16S
ATOM   3576  O1P C   A 177      99.360  40.204 -15.358  1.00 59.65      A16S
ATOM   3577  O2P C   A 177      98.827  41.220 -13.075  1.00 59.65      A16S
ATOM   3578  O5* C   A 177      97.687  39.159 -13.862  1.00 51.76      A16S
ATOM   3579  C5* C   A 177      97.603  37.936 -14.597  1.00 51.76      A16S
ATOM   3580  C4* C   A 177      96.275  37.275 -14.371  1.00 51.76      A16S
ATOM   3581  O4* C   A 177      96.172  36.847 -12.990  1.00 51.76      A16S
ATOM   3582  C1* C   A 177      94.816  36.913 -12.572  1.00 51.76      A16S
ATOM   3583  N1  C   A 177      94.708  37.853 -11.447  1.00 59.65      A16S
ATOM   3584  C6  C   A 177      95.798  38.541 -11.000  1.00 59.65      A16S
ATOM   3585  C2  C   A 177      93.455  38.048 -10.847  1.00 59.65      A16S
ATOM   3586  O2  C   A 177      92.478  37.409 -11.260  1.00 59.65      A16S
ATOM   3587  N3  C   A 177      93.341  38.928  -9.840  1.00 59.65      A16S
ATOM   3588  C4  C   A 177      94.409  39.608  -9.426  1.00 59.65      A16S
ATOM   3589  N4  C   A 177      94.242  40.493  -8.444  1.00 59.65      A16S
ATOM   3590  C5  C   A 177      95.694  39.419 -10.004  1.00 59.65      A16S
ATOM   3591  C2* C   A 177      93.995  37.410 -13.761  1.00 51.76      A16S
ATOM   3592  O2* C   A 177      93.434  36.303 -14.438  1.00 51.76      A16S
ATOM   3593  C3* C   A 177      95.050  38.145 -14.572  1.00 51.76      A16S
ATOM   3594  O3* C   A 177      94.670  38.303 -15.924  1.00 51.76      A16S
ATOM   3595  P   C   A 178      93.880  39.631 -16.354  1.00 66.02      A16S
ATOM   3596  O1P C   A 178      93.687  39.566 -17.823  1.00 74.98      A16S
ATOM   3597  O2P C   A 178      94.570  40.801 -15.750  1.00 74.98      A16S
ATOM   3598  O5* C   A 178      92.466  39.483 -15.632  1.00 66.02      A16S
ATOM   3599  C5* C   A 178      91.587  38.399 -15.971  1.00 66.02      A16S
ATOM   3600  C4* C   A 178      90.297  38.482 -15.190  1.00 66.02      A16S
ATOM   3601  O4* C   A 178      90.543  38.247 -13.782  1.00 66.02      A16S
ATOM   3602  C1* C   A 178      89.528  38.884 -13.020  1.00 66.02      A16S
ATOM   3603  N1  C   A 178      90.131  39.745 -11.991  1.00 74.98      A16S
ATOM   3604  C6  C   A 178      91.348  40.335 -12.178  1.00 74.98      A16S
ATOM   3605  C2  C   A 178      89.418  39.966 -10.814  1.00 74.98      A16S
ATOM   3606  O2  C   A 178      88.325  39.404 -10.666  1.00 74.98      A16S
ATOM   3607  N3  C   A 178      89.932  40.785  -9.869  1.00 74.98      A16S
ATOM   3608  C4  C   A 178      91.112  41.372 -10.068  1.00 74.98      A16S
ATOM   3609  N4  C   A 178      91.578  42.188  -9.118  1.00 74.98      A16S
ATOM   3610  C5  C   A 178      91.868  41.153 -11.252  1.00 74.98      A16S
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ATOM   3611  C2*  C   A 178      88.655  39.693 -13.977  1.00 66.02       A16S
ATOM   3612  O2*  C   A 178      87.464  38.984 -14.243  1.00 66.02       A16S
ATOM   3613  C3*  C   A 178      89.548  39.804 -15.205  1.00 66.02       A16S
ATOM   3614  O3*  C   A 178      88.760  39.986 -16.364  1.00 66.02       A16S
ATOM   3615  P    A   A 179      88.239  41.459 -16.737  1.00 60.06       A16S
ATOM   3616  O1P  A   A 179      87.265  41.302 -17.852  1.00 74.25       A16S
ATOM   3617  O2P  A   A 179      89.417  42.355 -16.906  1.00 74.25       A16S
ATOM   3618  O5*  A   A 179      87.443  41.950 -15.446  1.00 60.06       A16S
ATOM   3619  C5*  A   A 179      86.159  41.406 -15.136  1.00 60.06       A16S
ATOM   3620  C4*  A   A 179      85.557  42.108 -13.948  1.00 60.06       A16S
ATOM   3621  O4*  A   A 179      86.400  41.937 -12.782  1.00 60.06       A16S
ATOM   3622  C1*  A   A 179      86.159  43.000 -11.881  1.00 60.06       A16S
ATOM   3623  N9   A   A 179      87.435  43.541 -11.414  1.00 74.25       A16S
ATOM   3624  C4   A   A 179      87.582  44.416 -10.367  1.00 74.25       A16S
ATOM   3625  N3   A   A 179      86.615  44.916  -9.585  1.00 74.25       A16S
ATOM   3626  C2   A   A 179      87.125  45.737  -8.678  1.00 74.25       A16S
ATOM   3627  N1   A   A 179      88.394  46.089  -8.476  1.00 74.25       A16S
ATOM   3628  C6   A   A 179      89.342  45.566  -9.277  1.00 74.25       A16S
ATOM   3629  N6   A   A 179      90.610  45.917  -9.073  1.00 74.25       A16S
ATOM   3630  C5   A   A 179      88.931  44.680 -10.281  1.00 74.25       A16S
ATOM   3631  N7   A   A 179      89.631  43.979 -11.252  1.00 74.25       A16S
ATOM   3632  C8   A   A 179      88.699  43.318 -11.894  1.00 74.25       A16S
ATOM   3633  C2*  A   A 179      85.272  44.029 -12.587  1.00 60.06       A16S
ATOM   3634  O2*  A   A 179      83.953  43.900 -12.111  1.00 60.06       A16S
ATOM   3635  C3*  A   A 179      85.392  43.613 -14.049  1.00 60.06       A16S
ATOM   3636  O3*  A   A 179      84.221  43.955 -14.777  1.00 60.06       A16S
ATOM   3637  P    U   A 180      84.096  45.411 -15.448  1.00 63.23       A16S
ATOM   3638  O1P  U   A 180      82.801  45.462 -16.170  1.00 94.99       A16S
ATOM   3639  O2P  U   A 180      85.354  45.688 -16.188  1.00 94.99       A16S
ATOM   3640  O5*  U   A 180      83.998  46.395 -14.201  1.00 63.23       A16S
ATOM   3641  C5*  U   A 180      82.846  46.379 -13.349  1.00 63.23       A16S
ATOM   3642  C4*  U   A 180      83.001  47.396 -12.247  1.00 63.23       A16S
ATOM   3643  O4*  U   A 180      84.023  46.969 -11.314  1.00 63.23       A16S
ATOM   3644  C1*  U   A 180      84.767  48.092 -10.870  1.00 63.23       A16S
ATOM   3645  N1   U   A 180      86.155  47.925 -11.330  1.00 94.99       A16S
ATOM   3646  C6   U   A 180      86.451  47.131 -12.413  1.00 94.99       A16S
ATOM   3647  C2   U   A 180      87.154  48.589 -10.645  1.00 94.99       A16S
ATOM   3648  O2   U   A 180      86.937  49.306  -9.681  1.00 94.99       A16S
ATOM   3649  N3   U   A 180      88.420  48.382 -11.133  1.00 94.99       A16S
ATOM   3650  C4   U   A 180      88.780  47.597 -12.210  1.00 94.99       A16S
ATOM   3651  O4   U   A 180      89.967  47.506 -12.529  1.00 94.99       A16S
ATOM   3652  C5   U   A 180      87.692  46.950 -12.860  1.00 94.99       A16S
ATOM   3653  C2*  U   A 180      84.115  49.338 -11.465  1.00 63.23       A16S
ATOM   3654  O2*  U   A 180      83.165  49.874 -10.566  1.00 63.23       A16S
ATOM   3655  C3*  U   A 180      83.457  48.765 -12.706  1.00 63.23       A16S
ATOM   3656  O3*  U   A 180      82.383  49.561 -13.147  1.00 63.23       A16S
ATOM   3657  P    G   A 181      82.577  50.455 -14.453  1.00 65.17       A16S
ATOM   3658  O1P  G   A 181      81.474  51.447 -14.499  1.00 48.43       A16S
ATOM   3659  O2P  G   A 181      82.780  49.524 -15.594  1.00 48.43       A16S
ATOM   3660  O5*  G   A 181      83.942  51.217 -14.150  1.00 65.17       A16S
ATOM   3661  C5*  G   A 181      84.051  52.089 -13.009  1.00 65.17       A16S
ATOM   3662  C4*  G   A 181      85.060  53.176 -13.275  1.00 65.17       A16S
ATOM   3663  O4*  G   A 181      86.411  52.671 -13.112  1.00 65.17       A16S
ATOM   3664  C1*  G   A 181      87.201  52.995 -14.243  1.00 65.17       A16S
ATOM   3665  N9   G   A 181      88.119  51.877 -14.461  1.00 48.43       A16S
ATOM   3666  C4   G   A 181      89.425  51.756 -14.010  1.00 48.43       A16S
ATOM   3667  N3   G   A 181      90.112  52.664 -13.294  1.00 48.43       A16S
ATOM   3668  C2   G   A 181      91.335  52.255 -13.023  1.00 48.43       A16S
ATOM   3669  N2   G   A 181      92.161  53.035 -12.331  1.00 48.43       A16S
ATOM   3670  N1   G   A 181      91.842  51.051 -13.409  1.00 48.43       A16S
ATOM   3671  C6   G   A 181      91.154  50.091 -14.133  1.00 48.43       A16S
ATOM   3672  O6   G   A 181      91.701  49.009 -14.414  1.00 48.43       A16S
ATOM   3673  C5   G   A 181      89.847  50.522 -14.448  1.00 48.43       A16S
ATOM   3674  N7   G   A 181      88.847  49.882 -15.161  1.00 48.43       A16S
ATOM   3675  C8   G   A 181      87.845  50.721 -15.143  1.00 48.43       A16S
ATOM   3676  C2*  G   A 181      86.243  53.275 -15.409  1.00 65.17       A16S
ATOM   3677  O2*  G   A 181      86.821  54.235 -16.267  1.00 65.17       A16S
ATOM   3678  C3*  G   A 181      84.995  53.759 -14.669  1.00 65.17       A16S
ATOM   3679  O3*  G   A 181      84.099  54.834 -14.980  1.00 65.17       A16S
ATOM   3680  P    U   A 182      84.629  56.349 -15.027  1.00 75.83       A16S
ATOM   3681  O1P  U   A 182      84.177  56.946 -16.309  1.00 91.06       A16S
ATOM   3682  O2P  U   A 182      86.068  56.340 -14.695  1.00 91.06       A16S
ATOM   3683  O5*  U   A 182      83.851  57.066 -13.832  1.00 75.83       A16S
ATOM   3684  C5*  U   A 182      84.152  56.731 -12.460  1.00 75.83       A16S
ATOM   3685  C4*  U   A 182      84.414  57.982 -11.639  1.00 75.83       A16S
ATOM   3686  O4*  U   A 182      85.200  57.579 -10.485  1.00 75.83       A16S
ATOM   3687  C1*  U   A 182      86.258  58.495 -10.266  1.00 75.83       A16S
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ATOM   3688  N1  U   A 182      87.526  57.777 -10.494  1.00 91.06      A16S
ATOM   3689  C6  U   A 182      87.638  56.827 -11.489  1.00 91.06      A16S
ATOM   3690  C2  U   A 182      88.608  58.078  -9.687  1.00 91.06      A16S
ATOM   3691  O2  U   A 182      88.563  58.905  -8.801  1.00 91.06      A16S
ATOM   3692  N3  U   A 182      89.751  57.371  -9.964  1.00 91.06      A16S
ATOM   3693  C4  U   A 182      89.924  56.417 -10.942  1.00 91.06      A16S
ATOM   3694  O4  U   A 182      91.020  55.877 -11.074  1.00 91.06      A16S
ATOM   3695  C5  U   A 182      88.768  56.159 -11.731  1.00 91.06      A16S
ATOM   3696  C2* U   A 182      86.043  59.688 -11.201  1.00 75.83      A16S
ATOM   3697  O2* U   A 182      85.356  60.721 -10.519  1.00 75.83      A16S
ATOM   3698  C3* U   A 182      85.246  59.051 -12.340  1.00 75.83      A16S
ATOM   3699  O3* U   A 182      84.396  59.986 -13.021  1.00 75.83      A16S
ATOM   3700  P   G   A 183      84.927  60.745 -14.337  1.00 60.59      A16S
ATOM   3701  O1P G   A 183      84.024  61.902 -14.597  1.00 48.74      A16S
ATOM   3702  O2P G   A 183      85.146  59.733 -15.408  1.00 48.74      A16S
ATOM   3703  O5* G   A 183      86.340  61.320 -13.879  1.00 60.59      A16S
ATOM   3704  C5* G   A 183      87.459  61.310 -14.770  1.00 60.59      A16S
ATOM   3705  C4* G   A 183      88.709  60.943 -14.021  1.00 60.59      A16S
ATOM   3706  O4* G   A 183      88.559  59.625 -13.436  1.00 60.59      A16S
ATOM   3707  C1* G   A 183      89.782  58.909 -13.531  1.00 60.59      A16S
ATOM   3708  N9  G   A 183      89.562  57.749 -14.394  1.00 48.74      A16S
ATOM   3709  C4  G   A 183      90.422  56.699 -14.611  1.00 48.74      A16S
ATOM   3710  N3  G   A 183      91.630  56.530 -14.039  1.00 48.74      A16S
ATOM   3711  C2  G   A 183      92.236  55.440 -14.483  1.00 48.74      A16S
ATOM   3712  N2  G   A 183      93.456  55.122 -14.027  1.00 48.74      A16S
ATOM   3713  N1  G   A 183      91.692  54.584 -15.408  1.00 48.74      A16S
ATOM   3714  C6  G   A 183      90.445  54.738 -15.997  1.00 48.74      A16S
ATOM   3715  O6  G   A 183      90.042  53.910 -16.809  1.00 48.74      A16S
ATOM   3716  C5  G   A 183      89.792  55.897 -15.539  1.00 48.74      A16S
ATOM   3717  N7  G   A 183      88.555  56.415 -15.879  1.00 48.74      A16S
ATOM   3718  C8  G   A 183      88.459  57.508 -15.176  1.00 48.74      A16S
ATOM   3719  C2* G   A 183      90.822  59.867 -14.112  1.00 60.59      A16S
ATOM   3720  O2* G   A 183      91.512  60.486 -13.046  1.00 60.59      A16S
ATOM   3721  C3* G   A 183      89.941  60.835 -14.894  1.00 60.59      A16S
ATOM   3722  O3* G   A 183      90.523  62.114 -15.084  1.00 60.59      A16S
ATOM   3723  P   G   A 184      91.071  62.526 -16.535  1.00 50.30      A16S
ATOM   3724  O1P G   A 184      91.384  63.970 -16.447  1.00 59.93      A16S
ATOM   3725  O2P G   A 184      90.134  62.047 -17.582  1.00 59.93      A16S
ATOM   3726  O5* G   A 184      92.420  61.687 -16.680  1.00 50.30      A16S
ATOM   3727  C5* G   A 184      93.512  61.861 -15.749  1.00 50.30      A16S
ATOM   3728  C4* G   A 184      94.511  60.732 -15.882  1.00 50.30      A16S
ATOM   3729  O4* G   A 184      93.886  59.491 -15.473  1.00 50.30      A16S
ATOM   3730  C1* G   A 184      94.355  58.424 -16.284  1.00 50.30      A16S
ATOM   3731  N9  G   A 184      93.248  57.947 -17.105  1.00 59.93      A16S
ATOM   3732  C4  G   A 184      93.169  56.734 -17.743  1.00 59.93      A16S
ATOM   3733  N3  G   A 184      94.090  55.751 -17.697  1.00 59.93      A16S
ATOM   3734  C2  G   A 184      93.746  54.716 -18.441  1.00 59.93      A16S
ATOM   3735  N2  G   A 184      94.549  53.653 -18.512  1.00 59.93      A16S
ATOM   3736  N1  G   A 184      92.591  54.649 -19.172  1.00 59.93      A16S
ATOM   3737  C6  G   A 184      91.628  55.648 -19.234  1.00 59.93      A16S
ATOM   3738  O6  G   A 184      90.620  55.492 -19.933  1.00 59.93      A16S
ATOM   3739  C5  G   A 184      91.983  56.764 -18.437  1.00 59.93      A16S
ATOM   3740  N7  G   A 184      91.318  57.963 -18.224  1.00 59.93      A16S
ATOM   3741  C8  G   A 184      92.101  58.630 -17.425  1.00 59.93      A16S
ATOM   3742  C2* G   A 184      95.432  58.987 -17.200  1.00 50.30      A16S
ATOM   3743  O2* G   A 184      96.706  58.817 -16.618  1.00 50.30      A16S
ATOM   3744  C3* G   A 184      95.012  60.443 -17.288  1.00 50.30      A16S
ATOM   3745  O3* G   A 184      96.083  61.264 -17.705  1.00 50.30      A16S
ATOM   3746  P   A   A 185      96.396  61.394 -19.274  1.00 38.86      A16S
ATOM   3747  O1P A   A 185      97.436  62.445 -19.417  1.00 56.54      A16S
ATOM   3748  O2P A   A 185      95.107  61.535 -20.004  1.00 56.54      A16S
ATOM   3749  O5* A   A 185      97.009  59.976 -19.675  1.00 38.86      A16S
ATOM   3750  C5* A   A 185      98.282  59.545 -19.163  1.00 38.86      A16S
ATOM   3751  C4* A   A 185      98.711  58.274 -19.845  1.00 38.86      A16S
ATOM   3752  O4* A   A 185      97.815  57.202 -19.474  1.00 38.86      A16S
ATOM   3753  C1* A   A 185      97.594  56.349 -20.588  1.00 38.86      A16S
ATOM   3754  N9  A   A 185      96.171  56.390 -20.921  1.00 56.54      A16S
ATOM   3755  C4  A   A 185      95.514  55.571 -21.801  1.00 56.54      A16S
ATOM   3756  N3  A   A 185      96.035  54.572 -22.525  1.00 56.54      A16S
ATOM   3757  C2  A   A 185      95.101  54.009 -23.279  1.00 56.54      A16S
ATOM   3758  N1  A   A 185      93.804  54.307 -23.379  1.00 56.54      A16S
ATOM   3759  C6  A   A 185      93.316  55.313 -22.626  1.00 56.54      A16S
ATOM   3760  N6  A   A 185      92.020  55.607 -22.707  1.00 56.54      A16S
ATOM   3761  C5  A   A 185      94.204  55.991 -21.796  1.00 56.54      A16S
ATOM   3762  N7  A   A 185      94.033  57.052 -20.928  1.00 56.54      A16S
ATOM   3763  C8  A   A 185      95.225  57.248 -20.433  1.00 56.54      A16S
ATOM   3764  C2* A   A 185      98.460  56.858 -21.737  1.00 38.86      A16S
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ATOM   3765  O2*  A   A 185      99.675  56.144 -21.757  1.00 38.86      A16S
ATOM   3766  C3*  A   A 185      98.637  58.317 -21.355  1.00 38.86      A16S
ATOM   3767  O3*  A   A 185      99.814  58.845 -21.895  1.00 38.86      A16S
ATOM   3768  P    C   A 186      99.752  59.641 -23.275  1.00 34.87      A16S
ATOM   3769  O1P  C   A 186     101.106  60.220 -23.460  1.00 35.68      A16S
ATOM   3770  O2P  C   A 186      98.560  60.520 -23.240  1.00 35.68      A16S
ATOM   3771  O5*  C   A 186      99.517  58.522 -24.376  1.00 34.87      A16S
ATOM   3772  C5*  C   A 186     100.522  57.540 -24.625  1.00 34.87      A16S
ATOM   3773  C4*  C   A 186     100.038  56.555 -25.649  1.00 34.87      A16S
ATOM   3774  O4*  C   A 186      98.972  55.748 -25.098  1.00 34.87      A16S
ATOM   3775  C1*  C   A 186      98.047  55.427 -26.116  1.00 34.87      A16S
ATOM   3776  N1   C   A 186      96.751  55.997 -25.748  1.00 35.68      A16S
ATOM   3777  C6   C   A 186      96.661  56.952 -24.782  1.00 35.68      A16S
ATOM   3778  C2   C   A 186      95.612  55.550 -26.405  1.00 35.68      A16S
ATOM   3779  O2   C   A 186      95.724  54.673 -27.263  1.00 35.68      A16S
ATOM   3780  N3   C   A 186      94.419  56.079 -26.089  1.00 35.68      A16S
ATOM   3781  C4   C   A 186      94.341  57.013 -25.145  1.00 35.68      A16S
ATOM   3782  N4   C   A 186      93.142  57.516 -24.858  1.00 35.68      A16S
ATOM   3783  C5   C   A 186      95.488  57.479 -24.450  1.00 35.68      A16S
ATOM   3784  C2*  C   A 186      98.565  56.022 -27.420  1.00 34.87      A16S
ATOM   3785  O2*  C   A 186      99.309  55.037 -28.106  1.00 34.87      A16S
ATOM   3786  C3*  C   A 186      99.437  57.156 -26.903  1.00 34.87      A16S
ATOM   3787  O3*  C   A 186     100.438  57.522 -27.824  1.00 34.87      A16S
ATOM   3788  P    C   A 187     100.158  58.703 -28.867  1.00 43.31      A16S
ATOM   3789  O1P  C   A 187     101.495  59.064 -29.402  1.00 42.58      A16S
ATOM   3790  O2P  C   A 187      99.311  59.743 -28.230  1.00 42.58      A16S
ATOM   3791  O5*  C   A 187      99.331  57.981 -30.013  1.00 43.31      A16S
ATOM   3792  C5*  C   A 187      99.935  56.915 -30.739  1.00 43.31      A16S
ATOM   3793  C4*  C   A 187      98.944  56.289 -31.668  1.00 43.31      A16S
ATOM   3794  O4*  C   A 187      97.965  55.547 -30.908  1.00 43.31      A16S
ATOM   3795  C1*  C   A 187      96.724  55.592 -31.579  1.00 43.31      A16S
ATOM   3796  N1   C   A 187      95.744  56.233 -30.692  1.00 42.58      A16S
ATOM   3797  C6   C   A 187      96.142  56.996 -29.631  1.00 42.58      A16S
ATOM   3798  C2   C   A 187      94.388  56.046 -30.953  1.00 42.58      A16S
ATOM   3799  O2   C   A 187      94.065  55.361 -31.930  1.00 42.58      A16S
ATOM   3800  N3   C   A 187      93.464  56.618 -30.135  1.00 42.58      A16S
ATOM   3801  C4   C   A 187      93.864  57.352 -29.094  1.00 42.58      A16S
ATOM   3802  N4   C   A 187      92.935  57.881 -28.304  1.00 42.58      A16S
ATOM   3803  C5   C   A 187      95.241  57.570 -28.814  1.00 42.58      A16S
ATOM   3804  C2*  C   A 187      96.926  56.383 -32.872  1.00 43.31      A16S
ATOM   3805  O2*  C   A 187      97.264  55.512 -33.935  1.00 43.31      A16S
ATOM   3806  C3*  C   A 187      98.119  57.244 -32.508  1.00 43.31      A16S
ATOM   3807  O3*  C   A 187      98.801  57.714 -33.659  1.00 43.31      A16S
ATOM   3808  P    C   A 188      98.551  59.220 -34.158  1.00 52.43      A16S
ATOM   3809  O1P  C   A 188      99.446  59.426 -35.309  1.00 44.20      A16S
ATOM   3810  O2P  C   A 188      98.625  60.139 -32.995  1.00 44.20      A16S
ATOM   3811  O5*  C   A 188      97.058  59.191 -34.701  1.00 52.43      A16S
ATOM   3812  C5*  C   A 188      96.724  58.350 -35.812  1.00 52.43      A16S
ATOM   3813  C4*  C   A 188      95.244  58.381 -36.081  1.00 52.43      A16S
ATOM   3814  O4*  C   A 188      94.540  57.735 -34.995  1.00 52.43      A16S
ATOM   3815  C1*  C   A 188      93.285  58.363 -34.804  1.00 52.43      A16S
ATOM   3816  N1   C   A 188      93.290  59.008 -33.484  1.00 44.20      A16S
ATOM   3817  C6   C   A 188      94.463  59.257 -32.828  1.00 44.20      A16S
ATOM   3818  C2   C   A 188      92.071  59.386 -32.919  1.00 44.20      A16S
ATOM   3819  O2   C   A 188      91.019  59.115 -33.523  1.00 44.20      A16S
ATOM   3820  N3   C   A 188      92.070  60.033 -31.728  1.00 44.20      A16S
ATOM   3821  C4   C   A 188      93.224  60.283 -31.103  1.00 44.20      A16S
ATOM   3822  N4   C   A 188      93.182  60.927 -29.936  1.00 44.20      A16S
ATOM   3823  C5   C   A 188      94.475  59.885 -31.649  1.00 44.20      A16S
ATOM   3824  C2*  C   A 188      93.136  59.418 -35.897  1.00 52.43      A16S
ATOM   3825  O2*  C   A 188      92.492  58.855 -37.028  1.00 52.43      A16S
ATOM   3826  C3*  C   A 188      94.590  59.747 -36.181  1.00 52.43      A16S
ATOM   3827  O3*  C   A 188      94.756  60.364 -37.443  1.00 52.43      A16S
ATOM   3828  P    G   A 189      94.725  61.966 -37.541  1.00 69.82      A16S
ATOM   3829  O1P  G   A 189      95.104  62.276 -38.940  1.00 55.16      A16S
ATOM   3830  O2P  G   A 189      95.497  62.555 -36.423  1.00 55.16      A16S
ATOM   3831  O5*  G   A 189      93.197  62.330 -37.290  1.00 69.82      A16S
ATOM   3832  C5*  G   A 189      92.192  61.988 -38.258  1.00 69.82      A16S
ATOM   3833  C4*  G   A 189      90.877  62.627 -37.893  1.00 69.82      A16S
ATOM   3834  O4*  G   A 189      90.348  61.986 -36.708  1.00 69.82      A16S
ATOM   3835  C1*  G   A 189      89.693  62.945 -35.903  1.00 69.82      A16S
ATOM   3836  N9   G   A 189      90.383  63.009 -34.619  1.00 55.16      A16S
ATOM   3837  C4   G   A 189      89.829  63.337 -33.409  1.00 55.16      A16S
ATOM   3838  N3   G   A 189      88.543  63.664 -33.191  1.00 55.16      A16S
ATOM   3839  C2   G   A 189      88.308  63.918 -31.916  1.00 55.16      A16S
ATOM   3840  N2   G   A 189      87.069  64.250 -31.518  1.00 55.16      A16S
ATOM   3841  N1   G   A 189      89.265  63.862 -30.936  1.00 55.16      A16S
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ATOM   3842  C6  G   A 189      90.596  63.532 -31.140  1.00 55.16      A16S
ATOM   3843  O6  G   A 189      91.381  63.518 -30.182  1.00 55.16      A16S
ATOM   3844  C5  G   A 189      90.857  63.249 -32.501  1.00 55.16      A16S
ATOM   3845  N7  G   A 189      92.034  62.881 -33.128  1.00 55.16      A16S
ATOM   3846  C8  G   A 189      91.706  62.752 -34.382  1.00 55.16      A16S
ATOM   3847  C2* G   A 189      89.729  64.280 -36.645  1.00 69.82      A16S
ATOM   3848  O2* G   A 189      88.551  64.434 -37.408  1.00 69.82      A16S
ATOM   3849  C3* G   A 189      90.944  64.103 -37.537  1.00 69.82      A16S
ATOM   3850  O3* G   A 189      90.881  64.951 -38.677  1.00 69.82      A16S
ATOM   3851  P   C   A 190      91.398  66.470 -38.562  1.00 57.95      A16S
ATOM   3852  O1P C   A 190      91.245  67.086 -39.903  1.00 77.86      A16S
ATOM   3853  O2P C   A 190      92.726  66.478 -37.899  1.00 77.86      A16S
ATOM   3854  O5* C   A 190      90.355  67.156 -37.575  1.00 57.95      A16S
ATOM   3855  C5* C   A 190      89.016  67.420 -38.004  1.00 57.95      A16S
ATOM   3856  C4* C   A 190      88.224  68.020 -36.878  1.00 57.95      A16S
ATOM   3857  O4* C   A 190      88.114  67.054 -35.801  1.00 57.95      A16S
ATOM   3858  C1* C   A 190      88.096  67.730 -34.553  1.00 57.95      A16S
ATOM   3859  N1  C   A 190      89.231  67.273 -33.731  1.00 77.86      A16S
ATOM   3860  C6  C   A 190      90.314  66.660 -34.294  1.00 77.86      A16S
ATOM   3861  C2  C   A 190      89.190  67.501 -32.352  1.00 77.86      A16S
ATOM   3862  O2  C   A 190      88.187  68.039 -31.864  1.00 77.86      A16S
ATOM   3863  N3  C   A 190      90.240  67.132 -31.589  1.00 77.86      A16S
ATOM   3864  C4  C   A 190      91.298  66.551 -32.151  1.00 77.86      A16S
ATOM   3865  N4  C   A 190      92.317  66.213 -31.362  1.00 77.86      A16S
ATOM   3866  C5  C   A 190      91.360  66.290 -33.549  1.00 77.86      A16S
ATOM   3867  C2* C   A 190      88.196  69.228 -34.837  1.00 57.95      A16S
ATOM   3868  O2* C   A 190      86.904  69.803 -34.826  1.00 57.95      A16S
ATOM   3869  C3* C   A 190      88.846  69.232 -36.212  1.00 57.95      A16S
ATOM   3870  O3* C   A 190      88.635  70.446 -36.909  1.00 57.95      A16S
ATOM   3871  P   C   A 190A     89.628  71.679 -36.636  1.00 58.29      A16S
ATOM   3872  O1P C   A 190A     89.396  72.761 -37.635  1.00 50.70      A16S
ATOM   3873  O2P C   A 190A     90.998  71.111 -36.479  1.00 50.70      A16S
ATOM   3874  O5* C   A 190A     89.132  72.235 -35.234  1.00 58.29      A16S
ATOM   3875  C5* C   A 190A     87.819  72.772 -35.105  1.00 58.29      A16S
ATOM   3876  C4* C   A 190A     87.598  73.233 -33.701  1.00 58.29      A16S
ATOM   3877  O4* C   A 190A     87.699  72.093 -32.815  1.00 58.29      A16S
ATOM   3878  C1* C   A 190A     88.337  72.479 -31.607  1.00 58.29      A16S
ATOM   3879  N1  C   A 190A     89.575  71.688 -31.458  1.00 50.70      A16S
ATOM   3880  C6  C   A 190A     90.127  71.047 -32.528  1.00 50.70      A16S
ATOM   3881  C2  C   A 190A     90.191  71.620 -30.203  1.00 50.70      A16S
ATOM   3882  O2  C   A 190A     89.661  72.183 -29.244  1.00 50.70      A16S
ATOM   3883  N3  C   A 190A     91.348  70.943 -30.070  1.00 50.70      A16S
ATOM   3884  C4  C   A 190A     91.892  70.346 -31.128  1.00 50.70      A16S
ATOM   3885  N4  C   A 190A     93.055  69.722 -30.966  1.00 50.70      A16S
ATOM   3886  C5  C   A 190A     91.273  70.372 -32.408  1.00 50.70      A16S
ATOM   3887  C2* C   A 190A     88.616  73.982 -31.692  1.00 58.29      A16S
ATOM   3888  O2* C   A 190A     87.593  74.712 -31.040  1.00 58.29      A16S
ATOM   3889  C3* C   A 190A     88.655  74.193 -33.199  1.00 58.29      A16S
ATOM   3890  O3* C   A 190A     88.412  75.528 -33.611  1.00 58.29      A16S
ATOM   3891  P   C   A 190B     89.652  76.453 -34.054  1.00 53.66      A16S
ATOM   3892  O1P C   A 190B     89.096  77.542 -34.905  1.00 61.52      A16S
ATOM   3893  O2P C   A 190B     90.738  75.588 -34.588  1.00 61.52      A16S
ATOM   3894  O5* C   A 190B     90.160  77.053 -32.675  1.00 53.66      A16S
ATOM   3895  C5* C   A 190B     89.219  77.596 -31.767  1.00 53.66      A16S
ATOM   3896  C4* C   A 190B     89.776  77.604 -30.377  1.00 53.66      A16S
ATOM   3897  O4* C   A 190B     89.917  76.252 -29.876  1.00 53.66      A16S
ATOM   3898  C1* C   A 190B     91.012  76.197 -28.979  1.00 53.66      A16S
ATOM   3899  N1  C   A 190B     92.012  75.258 -29.508  1.00 61.52      A16S
ATOM   3900  C6  C   A 190B     92.021  74.905 -30.828  1.00 61.52      A16S
ATOM   3901  C2  C   A 190B     92.969  74.742 -28.638  1.00 61.52      A16S
ATOM   3902  O2  C   A 190B     92.927  75.067 -27.443  1.00 61.52      A16S
ATOM   3903  N3  C   A 190B     93.912  73.903 -29.116  1.00 61.52      A16S
ATOM   3904  C4  C   A 190B     93.915  73.571 -30.405  1.00 61.52      A16S
ATOM   3905  N4  C   A 190B     94.862  72.740 -30.834  1.00 61.52      A16S
ATOM   3906  C5  C   A 190B     92.946  74.073 -31.313  1.00 61.52      A16S
ATOM   3907  C2* C   A 190B     91.597  77.605 -28.884  1.00 53.66      A16S
ATOM   3908  O2* C   A 190B     91.031  78.276 -27.777  1.00 53.66      A16S
ATOM   3909  C3* C   A 190B     91.152  78.207 -30.209  1.00 53.66      A16S
ATOM   3910  O3* C   A 190B     91.130  79.623 -30.184  1.00 53.66      A16S
ATOM   3911  P   C   A 190C     92.503  80.430 -30.383  1.00 62.36      A16S
ATOM   3912  O1P C   A 190C     92.251  81.891 -30.246  1.00 51.85      A16S
ATOM   3913  O2P C   A 190C     93.188  79.913 -31.606  1.00 51.85      A16S
ATOM   3914  O5* C   A 190C     93.330  80.000 -29.100  1.00 62.36      A16S
ATOM   3915  C5* C   A 190C     94.719  80.216 -29.059  1.00 62.36      A16S
ATOM   3916  C4* C   A 190C     95.366  79.280 -28.086  1.00 62.36      A16S
ATOM   3917  O4* C   A 190C     94.923  77.919 -28.291  1.00 62.36      A16S
ATOM   3918  C1* C   A 190C     96.037  77.043 -28.249  1.00 62.36      A16S
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ATOM   3919  N1  C   A 190C      96.195  76.482 -29.601  1.00 51.85       A16S
ATOM   3920  C6  C   A 190C      95.435  76.956 -30.628  1.00 51.85       A16S
ATOM   3921  C2  C   A 190C      97.114  75.459 -29.825  1.00 51.85       A16S
ATOM   3922  O2  C   A 190C      97.820  75.064 -28.894  1.00 51.85       A16S
ATOM   3923  N3  C   A 190C      97.215  74.926 -31.056  1.00 51.85       A16S
ATOM   3924  C4  C   A 190C      96.451  75.386 -32.047  1.00 51.85       A16S
ATOM   3925  N4  C   A 190C      96.569  74.819 -33.255  1.00 51.85       A16S
ATOM   3926  C5  C   A 190C      95.529  76.444 -31.851  1.00 51.85       A16S
ATOM   3927  C2* C   A 190C      97.245  77.870 -27.809  1.00 62.36       A16S
ATOM   3928  O2* C   A 190C      97.361  77.867 -26.400  1.00 62.36       A16S
ATOM   3929  C3* C   A 190C      96.853  79.237 -28.327  1.00 62.36       A16S
ATOM   3930  O3* C   A 190C      97.454  80.326 -27.686  1.00 62.36       A16S
ATOM   3931  P   U   A 190D      98.371  81.319 -28.539  1.00 55.29       A16S
ATOM   3932  O1P U   A 190D      98.006  82.679 -28.086  1.00 71.47       A16S
ATOM   3933  O2P U   A 190D      98.286  80.984 -29.996  1.00 71.47       A16S
ATOM   3934  O5* U   A 190D      99.813  80.965 -27.956  1.00 55.29       A16S
ATOM   3935  C5* U   A 190D     100.898  80.567 -28.807  1.00 55.29       A16S
ATOM   3936  C4* U   A 190D     101.159  79.081 -28.685  1.00 55.29       A16S
ATOM   3937  O4* U   A 190D     100.120  78.353 -29.396  1.00 55.29       A16S
ATOM   3938  C1* U   A 190D     100.690  77.615 -30.456  1.00 55.29       A16S
ATOM   3939  N1  U   A 190D      99.754  77.620 -31.595  1.00 71.47       A16S
ATOM   3940  C6  U   A 190D      98.840  78.631 -31.772  1.00 71.47       A16S
ATOM   3941  C2  U   A 190D      99.816  76.560 -32.492  1.00 71.47       A16S
ATOM   3942  O2  U   A 190D     100.598  75.633 -32.382  1.00 71.47       A16S
ATOM   3943  N3  U   A 190D      98.917  76.620 -33.525  1.00 71.47       A16S
ATOM   3944  C4  U   A 190D      97.976  77.593 -33.751  1.00 71.47       A16S
ATOM   3945  O4  U   A 190D      97.187  77.461 -34.691  1.00 71.47       A16S
ATOM   3946  C5  U   A 190D      97.971  78.653 -32.788  1.00 71.47       A16S
ATOM   3947  C2* U   A 190D     102.047  78.255 -30.732  1.00 55.29       A16S
ATOM   3948  O2* U   A 190D     102.953  77.374 -31.349  1.00 55.29       A16S
ATOM   3949  C3* U   A 190D     102.473  78.674 -29.331  1.00 55.29       A16S
ATOM   3950  O3* U   A 190D     103.041  77.598 -28.576  1.00 55.29       A16S
ATOM   3951  P   U   A 190E     104.635  77.359 -28.581  1.00 50.69       A16S
ATOM   3952  O1P U   A 190E     105.036  76.820 -27.257  1.00 49.21       A16S
ATOM   3953  O2P U   A 190E     105.324  78.560 -29.108  1.00 49.21       A16S
ATOM   3954  O5* U   A 190E     104.820  76.224 -29.669  1.00 50.69       A16S
ATOM   3955  C5* U   A 190E     104.521  74.883 -29.351  1.00 50.69       A16S
ATOM   3956  C4* U   A 190E     105.106  73.978 -30.381  1.00 50.69       A16S
ATOM   3957  O4* U   A 190E     106.405  74.481 -30.788  1.00 50.69       A16S
ATOM   3958  C1* U   A 190E     107.397  73.506 -30.539  1.00 50.69       A16S
ATOM   3959  N1  U   A 190E     108.601  74.183 -30.037  1.00 49.21       A16S
ATOM   3960  C6  U   A 190E     108.519  75.130 -29.059  1.00 49.21       A16S
ATOM   3961  C2  U   A 190E     109.816  73.840 -30.589  1.00 49.21       A16S
ATOM   3962  O2  U   A 190E     109.938  72.976 -31.436  1.00 49.21       A16S
ATOM   3963  N3  U   A 190E     110.888  74.541 -30.109  1.00 49.21       A16S
ATOM   3964  C4  U   A 190E     110.865  75.520 -29.148  1.00 49.21       A16S
ATOM   3965  O4  U   A 190E     111.897  76.135 -28.879  1.00 49.21       A16S
ATOM   3966  C5  U   A 190E     109.576  75.788 -28.606  1.00 49.21       A16S
ATOM   3967  C2* U   A 190E     106.805  72.544 -29.516  1.00 50.69       A16S
ATOM   3968  O2* U   A 190E     107.396  71.274 -29.631  1.00 50.69       A16S
ATOM   3969  C3* U   A 190E     105.321  72.571 -29.862  1.00 50.69       A16S
ATOM   3970  O3* U   A 190E     105.002  71.629 -30.863  1.00 50.69       A16S
ATOM   3971  P   G   A 190F     103.756  70.654 -30.637  1.00 41.57       A16S
ATOM   3972  O1P G   A 190F     104.027  69.405 -31.400  1.00 47.13       A16S
ATOM   3973  O2P G   A 190F     102.528  71.444 -30.924  1.00 47.13       A16S
ATOM   3974  O5* G   A 190F     103.817  70.333 -29.072  1.00 41.57       A16S
ATOM   3975  C5* G   A 190F     102.706  69.701 -28.406  1.00 41.57       A16S
ATOM   3976  C4* G   A 190F     103.194  68.814 -27.280  1.00 41.57       A16S
ATOM   3977  O4* G   A 190F     104.163  67.864 -27.795  1.00 41.57       A16S
ATOM   3978  C1* G   A 190F     105.339  67.931 -27.029  1.00 41.57       A16S
ATOM   3979  N9  G   A 190F     106.479  67.603 -27.883  1.00 47.13       A16S
ATOM   3980  C4  G   A 190F     107.558  66.826 -27.527  1.00 47.13       A16S
ATOM   3981  N3  G   A 190F     107.783  66.294 -26.308  1.00 47.13       A16S
ATOM   3982  C2  G   A 190F     108.868  65.544 -26.293  1.00 47.13       A16S
ATOM   3983  N2  G   A 190F     109.251  64.938 -25.161  1.00 47.13       A16S
ATOM   3984  N1  G   A 190F     109.661  65.327 -27.389  1.00 47.13       A16S
ATOM   3985  C6  G   A 190F     109.442  65.855 -28.656  1.00 47.13       A16S
ATOM   3986  O6  G   A 190F     110.198  65.556 -29.589  1.00 47.13       A16S
ATOM   3987  C5  G   A 190F     108.300  66.683 -28.681  1.00 47.13       A16S
ATOM   3988  N7  G   A 190F     107.740  67.406 -29.724  1.00 47.13       A16S
ATOM   3989  C8  G   A 190F     106.668  67.944 -29.204  1.00 47.13       A16S
ATOM   3990  C2* G   A 190F     105.344  69.306 -26.381  1.00 41.57       A16S
ATOM   3991  O2* G   A 190F     106.118  69.232 -25.210  1.00 41.57       A16S
ATOM   3992  C3* G   A 190F     103.857  69.516 -26.102  1.00 41.57       A16S
ATOM   3993  O3* G   A 190F     103.533  68.818 -24.900  1.00 41.57       A16S
ATOM   3994  P   G   A 190G     102.012  68.769 -24.363  1.00 42.34       A16S
ATOM   3995  O1P G   A 190G     102.094  68.087 -23.033  1.00 38.52       A16S
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ATOM   3996  O2P G   A 190G     101.116  68.213 -25.419  1.00 38.52      A16S
ATOM   3997  O5* G   A 190G     101.603  70.291 -24.131  1.00 42.34      A16S
ATOM   3998  C5* G   A 190G     102.138  71.042 -23.024  1.00 42.34      A16S
ATOM   3999  C4* G   A 190G     101.236  72.208 -22.691  1.00 42.34      A16S
ATOM   4000  O4* G   A 190G     101.173  73.108 -23.822  1.00 42.34      A16S
ATOM   4001  C1* G   A 190G      99.844  73.554 -24.012  1.00 42.34      A16S
ATOM   4002  N9  G   A 190G      99.349  72.910 -25.220  1.00 38.52      A16S
ATOM   4003  C4  G   A 190G      98.149  73.125 -25.842  1.00 38.52      A16S
ATOM   4004  N3  G   A 190G      97.193  73.983 -25.444  1.00 38.52      A16S
ATOM   4005  C2  G   A 190G      96.141  73.947 -26.241  1.00 38.52      A16S
ATOM   4006  N2  G   A 190G      95.086  74.720 -25.983  1.00 38.52      A16S
ATOM   4007  N1  G   A 190G      96.047  73.144 -27.348  1.00 38.52      A16S
ATOM   4008  C6  G   A 190G      97.027  72.258 -27.776  1.00 38.52      A16S
ATOM   4009  O6  G   A 190G      96.851  71.585 -28.792  1.00 38.52      A16S
ATOM   4010  C5  G   A 190G      98.143  72.275 -26.925  1.00 38.52      A16S
ATOM   4011  N7  G   A 190G      99.313  71.537 -26.979  1.00 38.52      A16S
ATOM   4012  C8  G   A 190G      99.997  71.950 -25.952  1.00 38.52      A16S
ATOM   4013  C2* G   A 190G      99.046  73.098 -22.798  1.00 42.34      A16S
ATOM   4014  O2* G   A 190G      99.100  74.084 -21.787  1.00 42.34      A16S
ATOM   4015  C3* G   A 190G      99.795  71.835 -22.419  1.00 42.34      A16S
ATOM   4016  O3* G   A 190G      99.596  71.478 -21.072  1.00 42.34      A16S
ATOM   4017  P   G   A 190H      98.663  70.225 -20.726  1.00 62.83      A16S
ATOM   4018  O1P G   A 190H      98.850  70.018 -19.260  1.00 45.86      A16S
ATOM   4019  O2P G   A 190H      98.969  69.120 -21.679  1.00 45.86      A16S
ATOM   4020  O5* G   A 190H      97.183  70.736 -21.038  1.00 62.83      A16S
ATOM   4021  C5* G   A 190H      96.562  71.733 -20.206  1.00 62.83      A16S
ATOM   4022  C4* G   A 190H      95.222  72.162 -20.774  1.00 62.83      A16S
ATOM   4023  O4* G   A 190H      95.415  72.840 -22.041  1.00 62.83      A16S
ATOM   4024  C1* G   A 190H      94.278  72.647 -22.855  1.00 62.83      A16S
ATOM   4025  N9  G   A 190H      94.659  71.883 -24.033  1.00 45.86      A16S
ATOM   4026  C4  G   A 190H      93.926  71.788 -25.187  1.00 45.86      A16S
ATOM   4027  N3  G   A 190H      92.748  72.397 -25.423  1.00 45.86      A16S
ATOM   4028  C2  G   A 190H      92.268  72.100 -26.613  1.00 45.86      A16S
ATOM   4029  N2  G   A 190H      91.094  72.606 -26.990  1.00 45.86      A16S
ATOM   4030  N1  G   A 190H      92.898  71.282 -27.517  1.00 45.86      A16S
ATOM   4031  C6  G   A 190H      94.112  70.642 -27.301  1.00 45.86      A16S
ATOM   4032  O6  G   A 190H      94.590  69.917 -28.182  1.00 45.86      A16S
ATOM   4033  C5  G   A 190H      94.639  70.945 -26.008  1.00 45.86      A16S
ATOM   4034  N7  G   A 190H      95.806  70.521 -25.382  1.00 45.86      A16S
ATOM   4035  C8  G   A 190H      95.775  71.104 -24.214  1.00 45.86      A16S
ATOM   4036  C2* G   A 190H      93.276  71.825 -22.060  1.00 62.83      A16S
ATOM   4037  O2* G   A 190H      92.395  72.702 -21.398  1.00 62.83      A16S
ATOM   4038  C3* G   A 190H      94.186  71.094 -21.091  1.00 62.83      A16S
ATOM   4039  O3* G   A 190H      93.443  70.635 -19.971  1.00 62.83      A16S
ATOM   4040  P   G   A 190I      92.629  69.246 -20.081  1.00 60.97      A16S
ATOM   4041  O1P G   A 190I      91.920  69.075 -18.785  1.00 68.58      A16S
ATOM   4042  O2P G   A 190I      93.547  68.177 -20.554  1.00 68.58      A16S
ATOM   4043  O5* G   A 190I      91.548  69.526 -21.222  1.00 60.97      A16S
ATOM   4044  C5* G   A 190I      90.546  70.536 -21.021  1.00 60.97      A16S
ATOM   4045  C4* G   A 190I      89.569  70.575 -22.167  1.00 60.97      A16S
ATOM   4046  O4* G   A 190I      90.237  71.009 -23.370  1.00 60.97      A16S
ATOM   4047  C1* G   A 190I      89.580  70.461 -24.498  1.00 60.97      A16S
ATOM   4048  N9  G   A 190I      90.520  69.632 -25.237  1.00 68.58      A16S
ATOM   4049  C4  G   A 190I      90.357  69.169 -26.518  1.00 68.58      A16S
ATOM   4050  N3  G   A 190I      89.310  69.428 -27.325  1.00 68.58      A16S
ATOM   4051  C2  G   A 190I      89.426  68.823 -28.492  1.00 68.58      A16S
ATOM   4052  N2  G   A 190I      88.472  68.972 -29.412  1.00 68.58      A16S
ATOM   4053  N1  G   A 190I      90.486  68.030 -28.840  1.00 68.58      A16S
ATOM   4054  C6  G   A 190I      91.578  67.754 -28.024  1.00 68.58      A16S
ATOM   4055  O6  G   A 190I      92.497  67.023 -28.435  1.00 68.58      A16S
ATOM   4056  C5  G   A 190I      91.462  68.395 -26.769  1.00 68.58      A16S
ATOM   4057  N7  G   A 190I      92.311  68.381 -25.674  1.00 68.58      A16S
ATOM   4058  C8  G   A 190I      91.715  69.134 -24.793  1.00 68.58      A16S
ATOM   4059  C2* G   A 190I      88.430  69.601 -23.989  1.00 60.97      A16S
ATOM   4060  O2* G   A 190I      87.252  70.371 -24.022  1.00 60.97      A16S
ATOM   4061  C3* G   A 190I      88.889  69.280 -22.575  1.00 60.97      A16S
ATOM   4062  O3* G   A 190I      87.797  68.924 -21.733  1.00 60.97      A16S
ATOM   4063  P   U   A 190J      87.436  67.368 -21.519  1.00 58.45      A16S
ATOM   4064  O1P U   A 190J      86.309  67.330 -20.546  1.00 73.71      A16S
ATOM   4065  O2P U   A 190J      88.688  66.616 -21.215  1.00 73.71      A16S
ATOM   4066  O5* U   A 190J      86.904  66.923 -22.957  1.00 58.45      A16S
ATOM   4067  C5* U   A 190J      85.791  67.611 -23.549  1.00 58.45      A16S
ATOM   4068  C4* U   A 190J      85.524  67.111 -24.946  1.00 58.45      A16S
ATOM   4069  O4* U   A 190J      86.616  67.473 -25.821  1.00 58.45      A16S
ATOM   4070  C1* U   A 190J      86.757  66.494 -26.837  1.00 58.45      A16S
ATOM   4071  N1  U   A 190J      88.129  65.963 -26.805  1.00 73.71      A16S
ATOM   4072  C6  U   A 190J      88.929  66.102 -25.694  1.00 73.71      A16S
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ATOM   4073  C2  U   A 190J      88.592  65.306 -27.933  1.00 73.71      A16S
ATOM   4074  O2  U   A 190J      87.925  65.170 -28.941  1.00 73.71      A16S
ATOM   4075  N3  U   A 190J      89.865  64.810 -27.833  1.00 73.71      A16S
ATOM   4076  C4  U   A 190J      90.709  64.902 -26.747  1.00 73.71      A16S
ATOM   4077  O4  U   A 190J      91.816  64.360 -26.791  1.00 73.71      A16S
ATOM   4078  C5  U   A 190J      90.167  65.608 -25.629  1.00 73.71      A16S
ATOM   4079  C2* U   A 190J      85.700  65.416 -26.601  1.00 58.45      A16S
ATOM   4080  O2* U   A 190J      84.593  65.633 -27.452  1.00 58.45      A16S
ATOM   4081  C3* U   A 190J      85.381  65.612 -25.123  1.00 58.45      A16S
ATOM   4082  O3* U   A 190J      84.079  65.156 -24.786  1.00 58.45      A16S
ATOM   4083  P   G   A 190K      83.871  63.628 -24.326  1.00 62.48      A16S
ATOM   4084  O1P G   A 190K      82.508  63.573 -23.748  1.00 62.17      A16S
ATOM   4085  O2P G   A 190K      85.038  63.170 -23.511  1.00 62.17      A16S
ATOM   4086  O5* G   A 190K      83.843  62.821 -25.699  1.00 62.48      A16S
ATOM   4087  C5* G   A 190K      82.714  62.935 -26.565  1.00 62.48      A16S
ATOM   4088  C4* G   A 190K      83.006  62.309 -27.895  1.00 62.48      A16S
ATOM   4089  O4* G   A 190K      84.123  62.997 -28.505  1.00 62.48      A16S
ATOM   4090  C1* G   A 190K      84.876  62.080 -29.283  1.00 62.48      A16S
ATOM   4091  N9  G   A 190K      86.220  61.990 -28.725  1.00 62.17      A16S
ATOM   4092  C4  G   A 190K      87.340  61.544 -29.382  1.00 62.17      A16S
ATOM   4093  N3  G   A 190K      87.398  61.155 -30.673  1.00 62.17      A16S
ATOM   4094  C2  G   A 190K      88.607  60.743 -31.005  1.00 62.17      A16S
ATOM   4095  N2  G   A 190K      88.841  60.321 -32.247  1.00 62.17      A16S
ATOM   4096  N1  G   A 190K      89.675  60.713 -30.140  1.00 62.17      A16S
ATOM   4097  C6  G   A 190K      89.633  61.099 -28.803  1.00 62.17      A16S
ATOM   4098  O6  G   A 190K      90.640  61.003 -28.097  1.00 62.17      A16S
ATOM   4099  C5  G   A 190K      88.347  61.556 -28.437  1.00 62.17      A16S
ATOM   4100  N7  G   A 190K      87.877  62.033 -27.219  1.00 62.17      A16S
ATOM   4101  C8  G   A 190K      86.614  62.285 -27.439  1.00 62.17      A16S
ATOM   4102  C2* G   A 190K      84.182  60.721 -29.201  1.00 62.48      A16S
ATOM   4103  O2* G   A 190K      83.340  60.547 -30.324  1.00 62.48      A16S
ATOM   4104  C3* G   A 190K      83.423  60.848 -27.886  1.00 62.48      A16S
ATOM   4105  O3* G   A 190K      82.316  59.961 -27.807  1.00 62.48      A16S
ATOM   4106  P   U   A 190L      82.473  58.557 -27.028  1.00 57.63      A16S
ATOM   4107  O1P U   A 190L      81.076  58.091 -26.815  1.00 58.51      A16S
ATOM   4108  O2P U   A 190L      83.385  58.698 -25.852  1.00 58.51      A16S
ATOM   4109  O5* U   A 190L      83.167  57.592 -28.094  1.00 57.63      A16S
ATOM   4110  C5* U   A 190L      82.405  57.098 -29.202  1.00 57.63      A16S
ATOM   4111  C4* U   A 190L      83.244  56.238 -30.107  1.00 57.63      A16S
ATOM   4112  O4* U   A 190L      84.218  57.052 -30.803  1.00 57.63      A16S
ATOM   4113  C1* U   A 190L      85.372  56.277 -31.074  1.00 57.63      A16S
ATOM   4114  N1  U   A 190L      86.513  56.863 -30.358  1.00 58.51      A16S
ATOM   4115  C6  U   A 190L      86.338  57.804 -29.372  1.00 58.51      A16S
ATOM   4116  C2  U   A 190L      87.778  56.410 -30.693  1.00 58.51      A16S
ATOM   4117  O2  U   A 190L      87.973  55.584 -31.574  1.00 58.51      A16S
ATOM   4118  N3  U   A 190L      88.803  56.953 -29.954  1.00 58.51      A16S
ATOM   4119  C4  U   A 190L      88.693  57.885 -28.936  1.00 58.51      A16S
ATOM   4120  O4  U   A 190L      89.703  58.243 -28.318  1.00 58.51      A16S
ATOM   4121  C5  U   A 190L      87.354  58.312 -28.669  1.00 58.51      A16S
ATOM   4122  C2* U   A 190L      85.109  54.865 -30.549  1.00 57.63      A16S
ATOM   4123  O2* U   A 190L      84.669  54.029 -31.606  1.00 57.63      A16S
ATOM   4124  C3* U   A 190L      84.060  55.127 -29.476  1.00 57.63      A16S
ATOM   4125  O3* U   A 190L      83.306  53.966 -29.170  1.00 57.63      A16S
ATOM   4126  P   G   A 191       83.811  52.981 -28.000  1.00 74.64      A16S
ATOM   4127  O1P G   A 191       82.818  51.891 -27.895  1.00 55.19      A16S
ATOM   4128  O2P G   A 191       84.136  53.790 -26.795  1.00 55.19      A16S
ATOM   4129  O5* G   A 191       85.162  52.356 -28.570  1.00 74.64      A16S
ATOM   4130  C5* G   A 191       85.149  51.527 -29.745  1.00 74.64      A16S
ATOM   4131  C4* G   A 191       86.548  51.068 -30.093  1.00 74.64      A16S
ATOM   4132  O4* G   A 191       87.353  52.196 -30.530  1.00 74.64      A16S
ATOM   4133  C1* G   A 191       88.687  52.053 -30.056  1.00 74.64      A16S
ATOM   4134  N9  G   A 191       88.943  53.143 -29.113  1.00 55.19      A16S
ATOM   4135  C4  G   A 191       90.157  53.555 -28.611  1.00 55.19      A16S
ATOM   4136  N3  G   A 191       91.360  53.015 -28.886  1.00 55.19      A16S
ATOM   4137  C2  G   A 191       92.336  53.641 -28.249  1.00 55.19      A16S
ATOM   4138  N2  G   A 191       93.593  53.238 -28.396  1.00 55.19      A16S
ATOM   4139  N1  G   A 191       92.151  54.709 -27.418  1.00 55.19      A16S
ATOM   4140  C6  G   A 191       90.923  55.282 -27.123  1.00 55.19      A16S
ATOM   4141  O6  G   A 191       90.863  56.255 -26.363  1.00 55.19      A16S
ATOM   4142  C5  G   A 191       89.866  54.620 -27.788  1.00 55.19      A16S
ATOM   4143  N7  G   A 191       88.503  54.863 -27.758  1.00 55.19      A16S
ATOM   4144  C8  G   A 191       87.997  53.967 -28.554  1.00 55.19      A16S
ATOM   4145  C2* G   A 191       88.784  50.672 -29.406  1.00 74.64      A16S
ATOM   4146  O2* G   A 191       89.187  49.727 -30.380  1.00 74.64      A16S
ATOM   4147  C3* G   A 191       87.345  50.447 -28.958  1.00 74.64      A16S
ATOM   4148  O3* G   A 191       87.034  49.075 -28.769  1.00 74.64      A16S
ATOM   4149  P   U   A 192       87.103  48.445 -27.288  1.00 61.64      A16S
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ATOM   4150  O1P U   A 192      86.550  47.060 -27.388  1.00 49.02      A16S
ATOM   4151  O2P U   A 192      86.491  49.412 -26.332  1.00 49.02      A16S
ATOM   4152  O5* U   A 192      88.667  48.387 -26.970  1.00 61.64      A16S
ATOM   4153  C5* U   A 192      89.562  47.624 -27.805  1.00 61.64      A16S
ATOM   4154  C4* U   A 192      90.997  47.855 -27.401  1.00 61.64      A16S
ATOM   4155  O4* U   A 192      91.380  49.217 -27.714  1.00 61.64      A16S
ATOM   4156  C1* U   A 192      92.321  49.676 -26.764  1.00 61.64      A16S
ATOM   4157  N1   U   A 192      91.750  50.819 -26.043  1.00 49.02      A16S
ATOM   4158  C6   U   A 192      90.411  51.080 -26.053  1.00 49.02      A16S
ATOM   4159  C2   U   A 192      92.618  51.614 -25.331  1.00 49.02      A16S
ATOM   4160  O2   U   A 192      93.814  51.422 -25.303  1.00 49.02      A16S
ATOM   4161  N3   U   A 192      92.037  52.641 -24.643  1.00 49.02      A16S
ATOM   4162  C4   U   A 192      90.710  52.947 -24.595  1.00 49.02      A16S
ATOM   4163  O4   U   A 192      90.332  53.869 -23.879  1.00 49.02      A16S
ATOM   4164  C5   U   A 192      89.873  52.088 -25.370  1.00 49.02      A16S
ATOM   4165  C2* U   A 192      92.593  48.534 -25.792  1.00 61.64      A16S
ATOM   4166  O2* U   A 192      93.753  47.849 -26.208  1.00 61.64      A16S
ATOM   4167  C3* U   A 192      91.320  47.710 -25.924  1.00 61.64      A16S
ATOM   4168  O3* U   A 192      91.505  46.358 -25.517  1.00 61.64      A16S
ATOM   4169  P    C   A 193      91.211  45.941 -23.984  1.00 42.00      A16S
ATOM   4170  O1P C   A 193      91.473  44.484 -23.890  1.00 46.82      A16S
ATOM   4171  O2P C   A 193      89.891  46.487 -23.564  1.00 46.82      A16S
ATOM   4172  O5* C   A 193      92.347  46.684 -23.150  1.00 42.00      A16S
ATOM   4173  C5* C   A 193      93.730  46.500 -23.505  1.00 42.00      A16S
ATOM   4174  C4* C   A 193      94.615  47.513 -22.815  1.00 42.00      A16S
ATOM   4175  O4* C   A 193      94.341  48.859 -23.277  1.00 42.00      A16S
ATOM   4176  C1* C   A 193      94.648  49.776 -22.244  1.00 42.00      A16S
ATOM   4177  N1   C   A 193      93.458  50.567 -21.907  1.00 46.82      A16S
ATOM   4178  C6   C   A 193      92.236  50.275 -22.434  1.00 46.82      A16S
ATOM   4179  C2   C   A 193      93.603  51.641 -21.016  1.00 46.82      A16S
ATOM   4180  O2   C   A 193      94.722  51.873 -20.528  1.00 46.82      A16S
ATOM   4181  N3   C   A 193      92.529  52.389 -20.704  1.00 46.82      A16S
ATOM   4182  C4   C   A 193      91.347  52.097 -21.229  1.00 46.82      A16S
ATOM   4183  N4   C   A 193      90.321  52.862 -20.895  1.00 46.82      A16S
ATOM   4184  C5   C   A 193      91.164  51.005 -22.122  1.00 46.82      A16S
ATOM   4185  C2* C   A 193      95.108  48.973 -21.036  1.00 42.00      A16S
ATOM   4186  O2* C   A 193      96.515  48.927 -21.056  1.00 42.00      A16S
ATOM   4187  C3* C   A 193      94.482  47.619 -21.314  1.00 42.00      A16S
ATOM   4188  O3* C   A 193      95.146  46.582 -20.633  1.00 42.00      A16S
ATOM   4189  P    C   A 194      94.567  46.091 -19.222  1.00 48.12      A16S
ATOM   4190  O1P C   A 194      95.258  44.818 -18.897  1.00 37.36      A16S
ATOM   4191  O2P C   A 194      93.077  46.137 -19.259  1.00 37.36      A16S
ATOM   4192  O5* C   A 194      95.034  47.206 -18.191  1.00 48.12      A16S
ATOM   4193  C5* C   A 194      96.356  47.199 -17.653  1.00 48.12      A16S
ATOM   4194  C4* C   A 194      96.515  48.339 -16.697  1.00 48.12      A16S
ATOM   4195  O4* C   A 194      96.119  49.549 -17.384  1.00 48.12      A16S
ATOM   4196  C1* C   A 194      95.485  50.427 -16.477  1.00 48.12      A16S
ATOM   4197  N1   C   A 194      94.134  50.710 -16.970  1.00 37.36      A16S
ATOM   4198  C6   C   A 194      93.594  49.972 -17.981  1.00 37.36      A16S
ATOM   4199  C2   C   A 194      93.400  51.744 -16.379  1.00 37.36      A16S
ATOM   4200  O2   C   A 194      93.924  52.415 -15.476  1.00 37.36      A16S
ATOM   4201  N3   C   A 194      92.143  51.986 -16.809  1.00 37.36      A16S
ATOM   4202  C4   C   A 194      91.622  51.246 -17.790  1.00 37.36      A16S
ATOM   4203  N4   C   A 194      90.375  51.500 -18.179  1.00 37.36      A16S
ATOM   4204  C5   C   A 194      92.355  50.205 -18.416  1.00 37.36      A16S
ATOM   4205  C2* C   A 194      95.485  49.766 -15.098  1.00 48.12      A16S
ATOM   4206  O2* C   A 194      96.555  50.333 -14.359  1.00 48.12      A16S
ATOM   4207  C3* C   A 194      95.637  48.286 -15.457  1.00 48.12      A16S
ATOM   4208  O3* C   A 194      96.284  47.529 -14.428  1.00 48.12      A16S
ATOM   4209  P    A   A 195      95.534  46.277 -13.734  1.00 48.32      A16S
ATOM   4210  O1P A   A 195      96.576  45.275 -13.405  1.00 50.55      A16S
ATOM   4211  O2P A   A 195      94.362  45.880 -14.555  1.00 50.55      A16S
ATOM   4212  O5* A   A 195      95.022  46.837 -12.332  1.00 48.32      A16S
ATOM   4213  C5* A   A 195      94.279  48.065 -12.246  1.00 48.32      A16S
ATOM   4214  C4* A   A 195      94.770  48.899 -11.079  1.00 48.32      A16S
ATOM   4215  O4* A   A 195      94.068  50.160 -11.091  1.00 48.32      A16S
ATOM   4216  C1* A   A 195      93.736  50.535  -9.774  1.00 48.32      A16S
ATOM   4217  N9   A   A 195      92.289  50.693  -9.725  1.00 50.55      A16S
ATOM   4218  C4   A   A 195      91.616  51.714  -9.119  1.00 50.55      A16S
ATOM   4219  N3   A   A 195      92.145  52.726  -8.420  1.00 50.55      A16S
ATOM   4220  C2   A   A 195      91.190  53.544  -7.991  1.00 50.55      A16S
ATOM   4221  N1   A   A 195      89.865  53.467  -8.165  1.00 50.55      A16S
ATOM   4222  C6   A   A 195      89.368  52.431  -8.873  1.00 50.55      A16S
ATOM   4223  N6   A   A 195      88.043  52.347  -9.039  1.00 50.55      A16S
ATOM   4224  C5   A   A 195      90.282  51.499  -9.389  1.00 50.55      A16S
ATOM   4225  N7   A   A 195      90.116  50.350 -10.143  1.00 50.55      A16S
ATOM   4226  C8   A   A 195      91.334  49.904 -10.302  1.00 50.55      A16S
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ATOM   4227  C2* A   A 195      94.338  49.517  -8.804  1.00 48.32      A16S
ATOM   4228  O2* A   A 195      95.536  50.050  -8.276  1.00 48.32      A16S
ATOM   4229  C3* A   A 195      94.536  48.295  -9.701  1.00 48.32      A16S
ATOM   4230  O3* A   A 195      95.714  47.584  -9.330  1.00 48.32      A16S
ATOM   4231  P   A   A 196      95.617  46.107  -8.708  1.00 45.84      A16S
ATOM   4232  O1P A   A 196      96.924  45.454  -8.998  1.00 40.10      A16S
ATOM   4233  O2P A   A 196      94.348  45.443  -9.124  1.00 40.10      A16S
ATOM   4234  O5* A   A 196      95.564  46.358  -7.142  1.00 45.84      A16S
ATOM   4235  C5* A   A 196      96.672  46.958  -6.471  1.00 45.84      A16S
ATOM   4236  C4* A   A 196      96.189  47.693  -5.255  1.00 45.84      A16S
ATOM   4237  O4* A   A 196      95.196  48.657  -5.671  1.00 45.84      A16S
ATOM   4238  C1* A   A 196      94.186  48.751  -4.693  1.00 45.84      A16S
ATOM   4239  N9  A   A 196      92.906  48.531  -5.360  1.00 40.10      A16S
ATOM   4240  C4  A   A 196      91.916  49.471  -5.523  1.00 40.10      A16S
ATOM   4241  N3  A   A 196      91.912  50.740  -5.078  1.00 40.10      A16S
ATOM   4242  C2  A   A 196      90.801  51.362  -5.451  1.00 40.10      A16S
ATOM   4243  N1  A   A 196      89.774  50.896  -6.161  1.00 40.10      A16S
ATOM   4244  C6  A   A 196      89.808  49.613  -6.583  1.00 40.10      A16S
ATOM   4245  N6  A   A 196      88.781  49.138  -7.285  1.00 40.10      A16S
ATOM   4246  C5  A   A 196      90.926  48.851  -6.258  1.00 40.10      A16S
ATOM   4247  N7  A   A 196      91.267  47.538  -6.536  1.00 40.10      A16S
ATOM   4248  C8  A   A 196      92.445  47.394  -5.976  1.00 40.10      A16S
ATOM   4249  C2* A   A 196      94.536  47.798  -3.546  1.00 45.84      A16S
ATOM   4250  O2* A   A 196      95.156  48.544  -2.515  1.00 45.84      A16S
ATOM   4251  C3* A   A 196      95.497  46.822  -4.221  1.00 45.84      A16S
ATOM   4252  O3* A   A 196      96.473  46.333  -3.304  1.00 45.84      A16S
ATOM   4253  P   A   A 197      96.710  44.748  -3.130  1.00 61.32      A16S
ATOM   4254  O1P A   A 197      95.428  44.046  -3.354  1.00 44.60      A16S
ATOM   4255  O2P A   A 197      97.905  44.346  -3.909  1.00 44.60      A16S
ATOM   4256  O5* A   A 197      97.103  44.616  -1.593  1.00 61.32      A16S
ATOM   4257  C5* A   A 197      96.821  43.418  -0.848  1.00 61.32      A16S
ATOM   4258  C4* A   A 197      95.838  43.717   0.263  1.00 61.32      A16S
ATOM   4259  O4* A   A 197      96.476  44.429   1.354  1.00 61.32      A16S
ATOM   4260  C1* A   A 197      96.008  45.762   1.422  1.00 61.32      A16S
ATOM   4261  N9  A   A 197      97.204  46.602   1.388  1.00 44.60      A16S
ATOM   4262  C4  A   A 197      97.616  47.524   2.320  1.00 44.60      A16S
ATOM   4263  N3  A   A 197      96.947  47.951   3.396  1.00 44.60      A16S
ATOM   4264  C2  A   A 197      97.708  48.753   4.122  1.00 44.60      A16S
ATOM   4265  N1  A   A 197      98.965  49.136   3.919  1.00 44.60      A16S
ATOM   4266  C6  A   A 197      99.604  48.688   2.830  1.00 44.60      A16S
ATOM   4267  N6  A   A 197     100.871  49.033   2.647  1.00 44.60      A16S
ATOM   4268  C5  A   A 197      98.907  47.864   1.965  1.00 44.60      A16S
ATOM   4269  N7  A   A 197      99.268  47.258   0.775  1.00 44.60      A16S
ATOM   4270  C8  A   A 197      98.218  46.539   0.462  1.00 44.60      A16S
ATOM   4271  C2* A   A 197      95.059  45.990   0.252  1.00 61.32      A16S
ATOM   4272  O2* A   A 197      94.013  46.875   0.576  1.00 61.32      A16S
ATOM   4273  C3* A   A 197      94.658  44.566  -0.160  1.00 61.32      A16S
ATOM   4274  O3* A   A 197      93.407  43.949   0.230  1.00 61.32      A16S
ATOM   4275  P   G   A 198      92.946  43.853   1.776  1.00 44.92      A16S
ATOM   4276  O1P G   A 198      91.658  43.097   1.716  1.00 36.44      A16S
ATOM   4277  O2P G   A 198      93.002  45.177   2.467  1.00 36.44      A16S
ATOM   4278  O5* G   A 198      94.006  42.913   2.492  1.00 44.92      A16S
ATOM   4279  C5* G   A 198      93.929  42.730   3.909  1.00 44.92      A16S
ATOM   4280  C4* G   A 198      95.083  43.413   4.588  1.00 44.92      A16S
ATOM   4281  O4* G   A 198      95.212  44.765   4.097  1.00 44.92      A16S
ATOM   4282  C1* G   A 198      95.741  45.585   5.119  1.00 44.92      A16S
ATOM   4283  N9  G   A 198      94.803  46.659   5.419  1.00 36.44      A16S
ATOM   4284  C4  G   A 198      95.049  47.699   6.276  1.00 36.44      A16S
ATOM   4285  N3  G   A 198      96.193  47.903   6.953  1.00 36.44      A16S
ATOM   4286  C2  G   A 198      96.142  48.990   7.693  1.00 36.44      A16S
ATOM   4287  N2  G   A 198      97.197  49.332   8.424  1.00 36.44      A16S
ATOM   4288  N1  G   A 198      95.055  49.816   7.770  1.00 36.44      A16S
ATOM   4289  C6  G   A 198      93.859  49.620   7.091  1.00 36.44      A16S
ATOM   4290  O6  G   A 198      92.929  50.415   7.248  1.00 36.44      A16S
ATOM   4291  C5  G   A 198      93.902  48.452   6.281  1.00 36.44      A16S
ATOM   4292  N7  G   A 198      92.947  47.900   5.436  1.00 36.44      A16S
ATOM   4293  C8  G   A 198      93.528  46.841   4.943  1.00 36.44      A16S
ATOM   4294  C2* G   A 198      95.941  44.717   6.353  1.00 44.92      A16S
ATOM   4295  O2* G   A 198      97.276  44.267   6.376  1.00 44.92      A16S
ATOM   4296  C3* G   A 198      94.960  43.594   6.090  1.00 44.92      A16S
ATOM   4297  O3* G   A 198      95.274  42.432   6.831  1.00 44.92      A16S
ATOM   4298  P   G   A 199      94.510  42.159   8.215  1.00 51.76      A16S
ATOM   4299  O1P G   A 199      94.873  40.780   8.621  1.00 54.96      A16S
ATOM   4300  O2P G   A 199      93.076  42.529   8.059  1.00 54.96      A16S
ATOM   4301  O5* G   A 199      95.203  43.172   9.229  1.00 51.76      A16S
ATOM   4302  C5* G   A 199      96.564  42.965   9.632  1.00 51.76      A16S
ATOM   4303  C4* G   A 199      97.084  44.164  10.377  1.00 51.76      A16S
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ATOM   4304  O4*  G   A 199      96.918  45.331   9.549  1.00 51.76      A16S
ATOM   4305  C1*  G   A 199      96.647  46.460  10.359  1.00 51.76      A16S
ATOM   4306  N9   G   A 199      95.324  46.960  10.022  1.00 54.96      A16S
ATOM   4307  C4   G   A 199      94.766  48.126  10.475  1.00 54.96      A16S
ATOM   4308  N3   G   A 199      95.359  49.017  11.291  1.00 54.96      A16S
ATOM   4309  C2   G   A 199      94.575  50.039  11.549  1.00 54.96      A16S
ATOM   4310  N2   G   A 199      95.019  51.022  12.325  1.00 54.96      A16S
ATOM   4311  N1   G   A 199      93.299  50.172  11.059  1.00 54.96      A16S
ATOM   4312  C6   G   A 199      92.662  49.253  10.224  1.00 54.96      A16S
ATOM   4313  O6   G   A 199      91.487  49.446   9.845  1.00 54.96      A16S
ATOM   4314  C5   G   A 199      93.504  48.163   9.924  1.00 54.96      A16S
ATOM   4315  N7   G   A 199      93.280  47.050   9.127  1.00 54.96      A16S
ATOM   4316  C8   G   A 199      94.384  46.364   9.216  1.00 54.96      A16S
ATOM   4317  C2*  G   A 199      96.684  46.011  11.812  1.00 51.76      A16S
ATOM   4318  O2*  G   A 199      97.962  46.305  12.343  1.00 51.76      A16S
ATOM   4319  C3*  G   A 199      96.372  44.528  11.666  1.00 51.76      A16S
ATOM   4320  O3*  G   A 199      96.854  43.771  12.758  1.00 51.76      A16S
ATOM   4321  P    G   A 200      95.885  43.478  14.001  1.00 54.06      A16S
ATOM   4322  O1P  G   A 200      96.685  42.558  14.860  1.00 42.47      A16S
ATOM   4323  O2P  G   A 200      94.543  43.061  13.507  1.00 42.47      A16S
ATOM   4324  O5*  G   A 200      95.756  44.892  14.723  1.00 54.06      A16S
ATOM   4325  C5*  G   A 200      96.926  45.545  15.242  1.00 54.06      A16S
ATOM   4326  C4*  G   A 200      96.552  46.821  15.954  1.00 54.06      A16S
ATOM   4327  O4*  G   A 200      96.132  47.822  15.003  1.00 54.06      A16S
ATOM   4328  C1*  G   A 200      95.099  48.604  15.563  1.00 54.06      A16S
ATOM   4329  N9   G   A 200      93.931  48.445  14.712  1.00 42.47      A16S
ATOM   4330  C4   G   A 200      92.878  49.311  14.590  1.00 42.47      A16S
ATOM   4331  N3   G   A 200      92.714  50.463  15.275  1.00 42.47      A16S
ATOM   4332  C2   G   A 200      91.612  51.100  14.907  1.00 42.47      A16S
ATOM   4333  N2   G   A 200      91.298  52.271  15.489  1.00 42.47      A16S
ATOM   4334  N1   G   A 200      90.743  50.635  13.942  1.00 42.47      A16S
ATOM   4335  C6   G   A 200      90.901  49.445  13.229  1.00 42.47      A16S
ATOM   4336  O6   G   A 200      90.070  49.111  12.365  1.00 42.47      A16S
ATOM   4337  C5   G   A 200      92.067  48.761  13.621  1.00 42.47      A16S
ATOM   4338  N7   G   A 200      92.583  47.559  13.172  1.00 42.47      A16S
ATOM   4339  C8   G   A 200      93.684  47.409  13.850  1.00 42.47      A16S
ATOM   4340  C2*  G   A 200      94.881  48.142  17.002  1.00 54.06      A16S
ATOM   4341  O2*  G   A 200      95.622  48.988  17.854  1.00 54.06      A16S
ATOM   4342  C3*  G   A 200      95.418  46.714  16.953  1.00 54.06      A16S
ATOM   4343  O3*  G   A 200      95.935  46.282  18.204  1.00 54.06      A16S
ATOM   4344  P    C   A 201      95.024  45.408  19.195  1.00 96.89      A16S
ATOM   4345  O1P  C   A 201      95.820  44.239  19.643  1.00 35.47      A16S
ATOM   4346  O2P  C   A 201      93.670  45.186  18.587  1.00 35.47      A16S
ATOM   4347  O5*  C   A 201      94.926  46.363  20.459  1.00 96.89      A16S
ATOM   4348  C5*  C   A 201      93.673  46.646  21.071  1.00 96.89      A16S
ATOM   4349  C4*  C   A 201      93.351  48.111  20.932  1.00 96.89      A16S
ATOM   4350  O4*  C   A 201      93.172  48.445  19.540  1.00 96.89      A16S
ATOM   4351  C1*  C   A 201      92.142  49.400  19.415  1.00 96.89      A16S
ATOM   4352  N1   C   A 201      91.192  48.927  18.394  1.00 35.47      A16S
ATOM   4353  C6   C   A 201      91.393  47.729  17.767  1.00 35.47      A16S
ATOM   4354  C2   C   A 201      90.100  49.747  18.021  1.00 35.47      A16S
ATOM   4355  O2   C   A 201      89.869  50.800  18.658  1.00 35.47      A16S
ATOM   4356  N3   C   A 201      89.317  49.363  16.983  1.00 35.47      A16S
ATOM   4357  C4   C   A 201      89.557  48.208  16.352  1.00 35.47      A16S
ATOM   4358  N4   C   A 201      88.771  47.883  15.320  1.00 35.47      A16S
ATOM   4359  C5   C   A 201      90.613  47.336  16.749  1.00 35.47      A16S
ATOM   4360  C2*  C   A 201      91.603  49.725  20.809  1.00 96.89      A16S
ATOM   4361  O2*  C   A 201      92.213  50.922  21.252  1.00 96.89      A16S
ATOM   4362  C3*  C   A 201      92.063  48.518  21.615  1.00 96.89      A16S
ATOM   4363  O3*  C   A 201      92.393  48.857  22.955  1.00 96.89      A16S
ATOM   4364  P    U   A 202      91.322  48.631  24.116  1.00 90.07      A16S
ATOM   4365  O1P  U   A 202      91.996  49.003  25.386  1.00176.83      A16S
ATOM   4366  O2P  U   A 202      90.737  47.271  23.958  1.00176.83      A16S
ATOM   4367  O5*  U   A 202      90.212  49.718  23.770  1.00 90.07      A16S
ATOM   4368  C5*  U   A 202      89.036  49.883  24.580  1.00 90.07      A16S
ATOM   4369  C4*  U   A 202      88.441  51.249  24.340  1.00 90.07      A16S
ATOM   4370  O4*  U   A 202      89.363  52.249  24.817  1.00 90.07      A16S
ATOM   4371  C1*  U   A 202      89.167  53.435  24.089  1.00 90.07      A16S
ATOM   4372  N1   U   A 202      90.463  54.108  23.933  1.00176.83      A16S
ATOM   4373  C6   U   A 202      91.476  53.572  23.172  1.00176.83      A16S
ATOM   4374  C2   U   A 202      90.635  55.308  24.606  1.00176.83      A16S
ATOM   4375  O2   U   A 202      89.758  55.829  25.278  1.00176.83      A16S
ATOM   4376  N3   U   A 202      91.874  55.878  24.466  1.00176.83      A16S
ATOM   4377  C4   U   A 202      92.936  55.388  23.737  1.00176.83      A16S
ATOM   4378  O4   U   A 202      94.009  55.996  23.754  1.00176.83      A16S
ATOM   4379  C5   U   A 202      92.675  54.154  23.054  1.00176.83      A16S
ATOM   4380  C2*  U   A 202      88.340  53.119  22.833  1.00 90.07      A16S
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ATOM   4381  O2* U   A 202      87.085  53.765  22.910  1.00 90.07      A16S
ATOM   4382  C3* U   A 202      88.222  51.592  22.874  1.00 90.07      A16S
ATOM   4383  O3* U   A 202      86.904  51.206  22.483  1.00 90.07      A16S
ATOM   4384  P   U   A 203      86.475  49.653  22.493  1.00 79.76      A16S
ATOM   4385  O1P U   A 203      85.933  49.348  23.841  1.00109.88      A16S
ATOM   4386  O2P U   A 203      87.578  48.830  21.938  1.00109.88      A16S
ATOM   4387  O5* U   A 203      85.268  49.585  21.465  1.00 79.76      A16S
ATOM   4388  C5* U   A 203      85.237  50.470  20.354  1.00 79.76      A16S
ATOM   4389  C4* U   A 203      85.051  49.703  19.080  1.00 79.76      A16S
ATOM   4390  O4* U   A 203      86.229  48.947  18.711  1.00 79.76      A16S
ATOM   4391  C1* U   A 203      85.818  47.764  18.061  1.00 79.76      A16S
ATOM   4392  N1  U   A 203      86.870  46.740  18.184  1.00109.88      A16S
ATOM   4393  C6  U   A 203      87.707  46.692  19.280  1.00109.88      A16S
ATOM   4394  C2  U   A 203      86.996  45.812  17.152  1.00109.88      A16S
ATOM   4395  O2  U   A 203      86.276  45.804  16.161  1.00109.88      A16S
ATOM   4396  N3  U   A 203      88.000  44.889  17.325  1.00109.88      A16S
ATOM   4397  C4  U   A 203      88.872  44.794  18.396  1.00109.88      A16S
ATOM   4398  O4  U   A 203      89.743  43.919  18.396  1.00109.88      A16S
ATOM   4399  C5  U   A 203      88.674  45.778  19.416  1.00109.88      A16S
ATOM   4400  C2* U   A 203      84.525  47.379  18.769  1.00 79.76      A16S
ATOM   4401  O2* U   A 203      83.768  46.500  17.956  1.00 79.76      A16S
ATOM   4402  C3* U   A 203      83.875  48.745  19.031  1.00 79.76      A16S
ATOM   4403  O3* U   A 203      82.994  49.178  18.010  1.00 79.76      A16S
ATOM   4404  P   U   A 204      81.581  49.825  18.416  1.00167.14      A16S
ATOM   4405  O1P U   A 204      81.782  50.580  19.686  1.00184.61      A16S
ATOM   4406  O2P U   A 204      80.547  48.757  18.352  1.00184.61      A16S
ATOM   4407  O5* U   A 204      81.298  50.870  17.248  1.00167.14      A16S
ATOM   4408  C5* U   A 204      79.957  51.154  16.822  1.00167.14      A16S
ATOM   4409  C4* U   A 204      79.850  51.011  15.325  1.00167.14      A16S
ATOM   4410  O4* U   A 204      80.417  49.738  14.937  1.00167.14      A16S
ATOM   4411  C1* U   A 204      79.663  49.184  13.877  1.00167.14      A16S
ATOM   4412  N1  U   A 204      79.204  47.843  14.278  1.00184.61      A16S
ATOM   4413  C6  U   A 204      79.364  47.387  15.571  1.00184.61      A16S
ATOM   4414  C2  U   A 204      78.605  47.040  13.311  1.00184.61      A16S
ATOM   4415  O2  U   A 204      78.440  47.395  12.154  1.00184.61      A16S
ATOM   4416  N3  U   A 204      78.207  45.804  13.754  1.00184.61      A16S
ATOM   4417  C4  U   A 204      78.339  45.294  15.029  1.00184.61      A16S
ATOM   4418  O4  U   A 204      77.923  44.161  15.271  1.00184.61      A16S
ATOM   4419  C5  U   A 204      78.965  46.176  15.967  1.00184.61      A16S
ATOM   4420  C2* U   A 204      78.547  50.173  13.515  1.00167.14      A16S
ATOM   4421  O2* U   A 204      78.950  50.932  12.392  1.00167.14      A16S
ATOM   4422  C3* U   A 204      78.424  51.008  14.789  1.00167.14      A16S
ATOM   4423  O3* U   A 204      77.954  52.326  14.472  1.00167.14      A16S
ATOM   4424  P   G   A 216      78.005  53.500  15.578  1.00130.15      A16S
ATOM   4425  O1P G   A 216      77.599  52.963  16.901  1.00 72.20      A16S
ATOM   4426  O2P G   A 216      77.341  54.711  15.043  1.00 72.20      A16S
ATOM   4427  O5* G   A 216      79.542  53.872  15.629  1.00130.15      A16S
ATOM   4428  C5* G   A 216      80.175  54.417  14.475  1.00130.15      A16S
ATOM   4429  C4* G   A 216      81.544  54.877  14.836  1.00130.15      A16S
ATOM   4430  O4* G   A 216      82.307  53.753  15.314  1.00130.15      A16S
ATOM   4431  C1* G   A 216      83.660  53.932  14.970  1.00130.15      A16S
ATOM   4432  N9  G   A 216      84.140  52.717  14.322  1.00 72.20      A16S
ATOM   4433  C4  G   A 216      85.161  51.933  14.786  1.00 72.20      A16S
ATOM   4434  N3  G   A 216      85.908  52.186  15.878  1.00 72.20      A16S
ATOM   4435  C2  G   A 216      86.813  51.250  16.084  1.00 72.20      A16S
ATOM   4436  N2  G   A 216      87.655  51.366  17.116  1.00 72.20      A16S
ATOM   4437  N1  G   A 216      86.962  50.139  15.293  1.00 72.20      A16S
ATOM   4438  C6  G   A 216      86.198  49.852  14.168  1.00 72.20      A16S
ATOM   4439  O6  G   A 216      86.408  48.811  13.532  1.00 72.20      A16S
ATOM   4440  C5  G   A 216      85.231  50.868  13.920  1.00 72.20      A16S
ATOM   4441  N7  G   A 216      84.287  50.994  12.908  1.00 72.20      A16S
ATOM   4442  C8  G   A 216      83.667  52.110  13.184  1.00 72.20      A16S
ATOM   4443  C2* G   A 216      83.791  55.244  14.197  1.00130.15      A16S
ATOM   4444  O2* G   A 216      84.146  56.228  15.144  1.00130.15      A16S
ATOM   4445  C3* G   A 216      82.365  55.469  13.711  1.00130.15      A16S
ATOM   4446  O3* G   A 216      82.022  56.846  13.638  1.00130.15      A16S
ATOM   4447  P   C   A 217      82.892  57.854  12.740  1.00114.07      A16S
ATOM   4448  O1P C   A 217      82.076  59.103  12.733  1.00 59.03      A16S
ATOM   4449  O2P C   A 217      83.244  57.189  11.441  1.00 59.03      A16S
ATOM   4450  O5* C   A 217      84.216  58.106  13.606  1.00114.07      A16S
ATOM   4451  C5* C   A 217      85.545  58.056  13.015  1.00114.07      A16S
ATOM   4452  C4* C   A 217      86.604  57.937  14.098  1.00114.07      A16S
ATOM   4453  O4* C   A 217      86.413  56.696  14.822  1.00114.07      A16S
ATOM   4454  C1* C   A 217      87.666  56.120  15.149  1.00114.07      A16S
ATOM   4455  N1  C   A 217      87.808  54.872  14.382  1.00 59.03      A16S
ATOM   4456  C6  C   A 217      87.023  54.635  13.287  1.00 59.03      A16S
ATOM   4457  C2  C   A 217      88.771  53.935  14.777  1.00 59.03      A16S
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ATOM   4458  O2  C   A 217      89.472  54.171  15.775  1.00 59.03      A16S
ATOM   4459  N3  C   A 217      88.914  52.799  14.056  1.00 59.03      A16S
ATOM   4460  C4  C   A 217      88.147  52.588  12.983  1.00 59.03      A16S
ATOM   4461  N4  C   A 217      88.327  51.464  12.293  1.00 59.03      A16S
ATOM   4462  C5  C   A 217      87.160  53.521  12.566  1.00 59.03      A16S
ATOM   4463  C2* C   A 217      88.741  57.117  14.740  1.00114.07      A16S
ATOM   4464  O2* C   A 217      89.055  57.938  15.843  1.00114.07      A16S
ATOM   4465  C3* C   A 217      88.042  57.857  13.611  1.00114.07      A16S
ATOM   4466  O3* C   A 217      88.612  59.128  13.394  1.00114.07      A16S
ATOM   4467  P   C   A 218      89.755  59.293  12.285  1.00 75.65      A16S
ATOM   4468  O1P C   A 218      90.208  60.704  12.330  1.00 48.62      A16S
ATOM   4469  O2P C   A 218      89.237  58.718  11.017  1.00 48.62      A16S
ATOM   4470  O5* C   A 218      90.954  58.408  12.833  1.00 75.65      A16S
ATOM   4471  C5* C   A 218      91.660  58.817  14.013  1.00 75.65      A16S
ATOM   4472  C4* C   A 218      92.793  57.868  14.308  1.00 75.65      A16S
ATOM   4473  O4* C   A 218      92.261  56.561  14.638  1.00 75.65      A16S
ATOM   4474  C1* C   A 218      93.115  55.556  14.125  1.00 75.65      A16S
ATOM   4475  N1  C   A 218      92.360  54.785  13.130  1.00 48.62      A16S
ATOM   4476  C6  C   A 218      91.256  55.309  12.521  1.00 48.62      A16S
ATOM   4477  C2  C   A 218      92.798  53.508  12.813  1.00 48.62      A16S
ATOM   4478  O2  C   A 218      93.810  53.068  13.382  1.00 48.62      A16S
ATOM   4479  N3  C   A 218      92.120  52.786  11.897  1.00 48.62      A16S
ATOM   4480  C4  C   A 218      91.047  53.308  11.306  1.00 48.62      A16S
ATOM   4481  N4  C   A 218      90.408  52.567  10.401  1.00 48.62      A16S
ATOM   4482  C5  C   A 218      90.578  54.613  11.612  1.00 48.62      A16S
ATOM   4483  C2* C   A 218      94.323  56.248  13.499  1.00 75.65      A16S
ATOM   4484  O2* C   A 218      95.371  56.335  14.443  1.00 75.65      A16S
ATOM   4485  C3* C   A 218      93.741  57.609  13.156  1.00 75.65      A16S
ATOM   4486  O3* C   A 218      94.732  58.600  13.064  1.00 75.65      A16S
ATOM   4487  P   C   A 219      95.332  58.961  11.630  1.00 63.02      A16S
ATOM   4488  O1P C   A 219      96.137  60.191  11.856  1.00 46.64      A16S
ATOM   4489  O2P C   A 219      94.217  58.960  10.630  1.00 46.64      A16S
ATOM   4490  O5* C   A 219      96.311  57.748  11.297  1.00 63.02      A16S
ATOM   4491  C5* C   A 219      97.553  57.616  12.000  1.00 63.02      A16S
ATOM   4492  C4* C   A 219      98.230  56.309  11.668  1.00 63.02      A16S
ATOM   4493  O4* C   A 219      97.381  55.198  12.062  1.00 63.02      A16S
ATOM   4494  C1* C   A 219      97.612  54.096  11.200  1.00 63.02      A16S
ATOM   4495  N1  C   A 219      96.386  53.808  10.444  1.00 46.64      A16S
ATOM   4496  C6  C   A 219      95.316  54.653  10.470  1.00 46.64      A16S
ATOM   4497  C2  C   A 219      96.344  52.644   9.675  1.00 46.64      A16S
ATOM   4498  O2  C   A 219      97.341  51.907   9.662  1.00 46.64      A16S
ATOM   4499  N3  C   A 219      95.233  52.354   8.961  1.00 46.64      A16S
ATOM   4500  C4  C   A 219      94.197  53.188   8.986  1.00 46.64      A16S
ATOM   4501  N4  C   A 219      93.132  52.878   8.257  1.00 46.64      A16S
ATOM   4502  C5  C   A 219      94.212  54.385   9.761  1.00 46.64      A16S
ATOM   4503  C2* C   A 219      98.702  54.508  10.219  1.00 63.02      A16S
ATOM   4504  O2* C   A 219      99.959  54.060  10.697  1.00 63.02      A16S
ATOM   4505  C3* C   A 219      98.528  56.019  10.209  1.00 63.02      A16S
ATOM   4506  O3* C   A 219      99.647  56.698   9.683  1.00 63.02      A16S
ATOM   4507  P   G   A 220      99.545  57.322   8.206  1.00 68.44      A16S
ATOM   4508  O1P G   A 220     100.895  57.870   7.927  1.00 65.00      A16S
ATOM   4509  O2P G   A 220      98.369  58.213   8.143  1.00 65.00      A16S
ATOM   4510  O5* G   A 220      99.224  56.079   7.249  1.00 68.44      A16S
ATOM   4511  C5* G   A 220     100.150  54.980   7.166  1.00 68.44      A16S
ATOM   4512  C4* G   A 220      99.591  53.802   6.383  1.00 68.44      A16S
ATOM   4513  O4* G   A 220      98.386  53.258   6.984  1.00 68.44      A16S
ATOM   4514  C1* G   A 220      97.712  52.459   6.023  1.00 68.44      A16S
ATOM   4515  N9  G   A 220      96.345  52.931   5.838  1.00 65.00      A16S
ATOM   4516  C4  G   A 220      95.378  52.291   5.103  1.00 65.00      A16S
ATOM   4517  N3  G   A 220      95.519  51.110   4.473  1.00 65.00      A16S
ATOM   4518  C2  G   A 220      94.425  50.762   3.821  1.00 65.00      A16S
ATOM   4519  N2  G   A 220      94.386  49.606   3.143  1.00 65.00      A16S
ATOM   4520  N1  G   A 220      93.287  51.516   3.786  1.00 65.00      A16S
ATOM   4521  C6  G   A 220      93.117  52.734   4.427  1.00 65.00      A16S
ATOM   4522  O6  G   A 220      92.043  53.331   4.328  1.00 65.00      A16S
ATOM   4523  C5  G   A 220      94.283  53.119   5.137  1.00 65.00      A16S
ATOM   4524  N7  G   A 220      94.542  54.248   5.899  1.00 65.00      A16S
ATOM   4525  C8  G   A 220      95.775  54.091   6.301  1.00 65.00      A16S
ATOM   4526  C2* G   A 220      98.455  52.630   4.702  1.00 68.44      A16S
ATOM   4527  O2* G   A 220      99.369  51.564   4.538  1.00 68.44      A16S
ATOM   4528  C3* G   A 220      99.193  53.941   4.926  1.00 68.44      A16S
ATOM   4529  O3* G   A 220     100.279  53.993   4.021  1.00 68.44      A16S
ATOM   4530  P   C   A 221     100.031  54.548   2.531  1.00 50.07      A16S
ATOM   4531  O1P C   A 221     101.381  54.604   1.898  1.00 45.24      A16S
ATOM   4532  O2P C   A 221      99.182  55.776   2.597  1.00 45.24      A16S
ATOM   4533  O5* C   A 221      99.179  53.414   1.815  1.00 50.07      A16S
ATOM   4534  C5* C   A 221      99.773  52.156   1.519  1.00 50.07      A16S
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ATOM   4535  C4*  C   A 221      98.836  51.325   0.703  1.00 50.07      A16S
ATOM   4536  O4*  C   A 221      97.617  51.142   1.454  1.00 50.07      A16S
ATOM   4537  C1*  C   A 221      96.511  51.097   0.569  1.00 50.07      A16S
ATOM   4538  N1   C   A 221      95.594  52.199   0.901  1.00 45.24      A16S
ATOM   4539  C6   C   A 221      95.943  53.170   1.799  1.00 45.24      A16S
ATOM   4540  C2   C   A 221      94.357  52.251   0.248  1.00 45.24      A16S
ATOM   4541  O2   C   A 221      94.028  51.304  -0.504  1.00 45.24      A16S
ATOM   4542  N3   C   A 221      93.548  53.318   0.459  1.00 45.24      A16S
ATOM   4543  C4   C   A 221      93.923  54.283   1.301  1.00 45.24      A16S
ATOM   4544  N4   C   A 221      93.122  55.338   1.436  1.00 45.24      A16S
ATOM   4545  C5   C   A 221      95.144  54.215   2.030  1.00 45.24      A16S
ATOM   4546  C2*  C   A 221      97.049  51.239  -0.854  1.00 50.07      A16S
ATOM   4547  O2*  C   A 221      97.155  49.955  -1.445  1.00 50.07      A16S
ATOM   4548  C3*  C   A 221      98.380  51.938  -0.605  1.00 50.07      A16S
ATOM   4549  O3*  C   A 221      99.325  51.719  -1.640  1.00 50.07      A16S
ATOM   4550  P    U   A 222      99.485  52.807  -2.811  1.00 34.09      A16S
ATOM   4551  O1P  U   A 222     100.645  52.377  -3.640  1.00 52.10      A16S
ATOM   4552  O2P  U   A 222      99.483  54.169  -2.187  1.00 52.10      A16S
ATOM   4553  O5*  U   A 222      98.148  52.665  -3.664  1.00 34.09      A16S
ATOM   4554  C5*  U   A 222      97.830  51.447  -4.338  1.00 34.09      A16S
ATOM   4555  C4*  U   A 222      96.641  51.658  -5.231  1.00 34.09      A16S
ATOM   4556  O4*  U   A 222      95.453  51.858  -4.428  1.00 34.09      A16S
ATOM   4557  C1*  U   A 222      94.612  52.824  -5.041  1.00 34.09      A16S
ATOM   4558  N1   U   A 222      94.443  53.944  -4.101  1.00 52.10      A16S
ATOM   4559  C6   U   A 222      95.280  54.100  -3.028  1.00 52.10      A16S
ATOM   4560  C2   U   A 222      93.405  54.824  -4.317  1.00 52.10      A16S
ATOM   4561  O2   U   A 222      92.664  54.747  -5.270  1.00 52.10      A16S
ATOM   4562  N3   U   A 222      93.269  55.807  -3.373  1.00 52.10      A16S
ATOM   4563  C4   U   A 222      94.056  56.004  -2.264  1.00 52.10      A16S
ATOM   4564  O4   U   A 222      93.784  56.915  -1.476  1.00 52.10      A16S
ATOM   4565  C5   U   A 222      95.127  55.070  -2.128  1.00 52.10      A16S
ATOM   4566  C2*  U   A 222      95.257  53.218  -6.368  1.00 34.09      A16S
ATOM   4567  O2*  U   A 222      94.739  52.422  -7.417  1.00 34.09      A16S
ATOM   4568  C3*  U   A 222      96.717  52.907  -6.086  1.00 34.09      A16S
ATOM   4569  O3*  U   A 222      97.483  52.704  -7.250  1.00 34.09      A16S
ATOM   4570  P    U   A 223      98.391  53.902  -7.805  1.00 36.52      A16S
ATOM   4571  O1P  U   A 223      99.383  53.228  -8.676  1.00 38.20      A16S
ATOM   4572  O2P  U   A 223      98.855  54.725  -6.655  1.00 38.20      A16S
ATOM   4573  O5*  U   A 223      97.378  54.735  -8.705  1.00 36.52      A16S
ATOM   4574  C5*  U   A 223      96.698  54.072  -9.775  1.00 36.52      A16S
ATOM   4575  C4*  U   A 223      95.546  54.893 -10.284  1.00 36.52      A16S
ATOM   4576  O4*  U   A 223      94.436  54.887  -9.353  1.00 36.52      A16S
ATOM   4577  C1*  U   A 223      93.763  56.132  -9.415  1.00 36.52      A16S
ATOM   4578  N1   U   A 223      93.914  56.803  -8.118  1.00 38.20      A16S
ATOM   4579  C6   U   A 223      94.981  56.538  -7.297  1.00 38.20      A16S
ATOM   4580  C2   U   A 223      92.956  57.720  -7.759  1.00 38.20      A16S
ATOM   4581  O2   U   A 223      91.988  57.971  -8.458  1.00 38.20      A16S
ATOM   4582  N3   U   A 223      93.167  58.334  -6.549  1.00 38.20      A16S
ATOM   4583  C4   U   A 223      94.210  58.113  -5.681  1.00 38.20      A16S
ATOM   4584  O4   U   A 223      94.235  58.702  -4.597  1.00 38.20      A16S
ATOM   4585  C5   U   A 223      95.157  57.144  -6.127  1.00 38.20      A16S
ATOM   4586  C2*  U   A 223      94.439  56.961 -10.506  1.00 36.52      A16S
ATOM   4587  O2*  U   A 223      93.777  56.784 -11.744  1.00 36.52      A16S
ATOM   4588  C3*  U   A 223      95.834  56.358 -10.509  1.00 36.52      A16S
ATOM   4589  O3*  U   A 223      96.538  56.592 -11.704  1.00 36.52      A16S
ATOM   4590  P    C   A 224      97.541  57.838 -11.782  1.00 50.55      A16S
ATOM   4591  O1P  C   A 224      98.225  57.660 -13.100  1.00 40.39      A16S
ATOM   4592  O2P  C   A 224      98.355  57.926 -10.535  1.00 40.39      A16S
ATOM   4593  O5*  C   A 224      96.548  59.084 -11.808  1.00 50.55      A16S
ATOM   4594  C5*  C   A 224      95.553  59.178 -12.833  1.00 50.55      A16S
ATOM   4595  C4*  C   A 224      94.638  60.344 -12.590  1.00 50.55      A16S
ATOM   4596  O4*  C   A 224      93.816  60.096 -11.426  1.00 50.55      A16S
ATOM   4597  C1*  C   A 224      93.479  61.329 -10.821  1.00 50.55      A16S
ATOM   4598  N1   C   A 224      93.943  61.318  -9.432  1.00 40.39      A16S
ATOM   4599  C6   C   A 224      94.877  60.418  -9.014  1.00 40.39      A16S
ATOM   4600  C2   C   A 224      93.418  62.260  -8.534  1.00 40.39      A16S
ATOM   4601  O2   C   A 224      92.557  63.071  -8.933  1.00 40.39      A16S
ATOM   4602  N3   C   A 224      93.859  62.267  -7.261  1.00 40.39      A16S
ATOM   4603  C4   C   A 224      94.783  61.396  -6.875  1.00 40.39      A16S
ATOM   4604  N4   C   A 224      95.209  61.461  -5.624  1.00 40.39      A16S
ATOM   4605  C5   C   A 224      95.320  60.423  -7.758  1.00 40.39      A16S
ATOM   4606  C2*  C   A 224      94.143  62.444 -11.628  1.00 50.55      A16S
ATOM   4607  O2*  C   A 224      93.190  62.992 -12.524  1.00 50.55      A16S
ATOM   4608  C3*  C   A 224      95.275  61.694 -12.321  1.00 50.55      A16S
ATOM   4609  O3*  C   A 224      95.709  62.341 -13.512  1.00 50.55      A16S
ATOM   4610  P    C   A 225      96.851  63.473 -13.433  1.00 42.08      A16S
ATOM   4611  O1P  C   A 225      97.134  63.877 -14.837  1.00 59.44      A16S
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ATOM   4612  O2P C   A 225      97.958  62.995 -12.575  1.00 59.44      A16S
ATOM   4613  O5* C   A 225      96.143  64.691 -12.690  1.00 42.08      A16S
ATOM   4614  C5* C   A 225      95.096  65.435 -13.345  1.00 42.08      A16S
ATOM   4615  C4* C   A 225      94.538  66.496 -12.427  1.00 42.08      A16S
ATOM   4616  O4* C   A 225      94.008  65.863 -11.233  1.00 42.08      A16S
ATOM   4617  C1* C   A 225      94.185  66.721 -10.115  1.00 42.08      A16S
ATOM   4618  N1  C   A 225      94.993  66.029  -9.096  1.00 59.44      A16S
ATOM   4619  C6  C   A 225      95.766  64.947  -9.419  1.00 59.44      A16S
ATOM   4620  C2  C   A 225      94.961  66.508  -7.774  1.00 59.44      A16S
ATOM   4621  O2  C   A 225      94.250  67.489  -7.505  1.00 59.44      A16S
ATOM   4622  N3  C   A 225      95.706  65.890  -6.828  1.00 59.44      A16S
ATOM   4623  C4  C   A 225      96.459  64.835  -7.155  1.00 59.44      A16S
ATOM   4624  N4  C   A 225      97.178  64.256  -6.189  1.00 59.44      A16S
ATOM   4625  C5  C   A 225      96.508  64.326  -8.490  1.00 59.44      A16S
ATOM   4626  C2* C   A 225      94.848  68.001 -10.612  1.00 42.08      A16S
ATOM   4627  O2* C   A 225      93.835  68.963 -10.833  1.00 42.08      A16S
ATOM   4628  C3* C   A 225      95.527  67.516 -11.889  1.00 42.08      A16S
ATOM   4629  O3* C   A 225      95.801  68.560 -12.814  1.00 42.08      A16S
ATOM   4630  P   G   A 226      97.287  69.182 -12.879  1.00 57.92      A16S
ATOM   4631  O1P G   A 226      97.318  70.114 -14.039  1.00 42.32      A16S
ATOM   4632  O2P G   A 226      98.267  68.069 -12.808  1.00 42.32      A16S
ATOM   4633  O5* G   A 226      97.426  70.022 -11.533  1.00 57.92      A16S
ATOM   4634  C5* G   A 226      96.684  71.228 -11.373  1.00 57.92      A16S
ATOM   4635  C4* G   A 226      96.660  71.660  -9.932  1.00 57.92      A16S
ATOM   4636  O4* G   A 226      96.071  70.630  -9.096  1.00 57.92      A16S
ATOM   4637  C1* G   A 226      96.566  70.760  -7.774  1.00 57.92      A16S
ATOM   4638  N9  G   A 226      97.229  69.528  -7.365  1.00 42.32      A16S
ATOM   4639  C4  G   A 226      97.656  69.255  -6.097  1.00 42.32      A16S
ATOM   4640  N3  G   A 226      97.460  70.032  -5.024  1.00 42.32      A16S
ATOM   4641  C2  G   A 226      98.008  69.525  -3.949  1.00 42.32      A16S
ATOM   4642  N2  G   A 226      97.867  70.149  -2.799  1.00 42.32      A16S
ATOM   4643  N1  G   A 226      98.726  68.363  -3.925  1.00 42.32      A16S
ATOM   4644  C6  G   A 226      98.954  67.549  -5.023  1.00 42.32      A16S
ATOM   4645  O6  G   A 226      99.644  66.526  -4.903  1.00 42.32      A16S
ATOM   4646  C5  G   A 226      98.332  68.064  -6.184  1.00 42.32      A16S
ATOM   4647  N7  G   A 226      98.281  67.565  -7.474  1.00 42.32      A16S
ATOM   4648  C8  G   A 226      97.607  68.463  -8.140  1.00 42.32      A16S
ATOM   4649  C2* G   A 226      97.608  71.872  -7.788  1.00 57.92      A16S
ATOM   4650  O2* G   A 226      97.017  73.073  -7.346  1.00 57.92      A16S
ATOM   4651  C3* G   A 226      97.989  71.918  -9.258  1.00 57.92      A16S
ATOM   4652  O3* G   A 226      98.564  73.159  -9.596  1.00 57.92      A16S
ATOM   4653  P   G   A 227     100.123  73.396  -9.302  1.00 34.82      A16S
ATOM   4654  O1P G   A 227     100.465  74.699  -9.915  1.00 47.38      A16S
ATOM   4655  O2P G   A 227     100.895  72.176  -9.684  1.00 47.38      A16S
ATOM   4656  O5* G   A 227     100.186  73.574  -7.721  1.00 34.82      A16S
ATOM   4657  C5* G   A 227      99.521  74.670  -7.087  1.00 34.82      A16S
ATOM   4658  C4* G   A 227      99.657  74.563  -5.597  1.00 34.82      A16S
ATOM   4659  O4* G   A 227      99.217  73.249  -5.169  1.00 34.82      A16S
ATOM   4660  C1* G   A 227      99.955  72.836  -4.032  1.00 34.82      A16S
ATOM   4661  N9  G   A 227     100.622  71.567  -4.311  1.00 47.38      A16S
ATOM   4662  C4  G   A 227     101.269  70.788  -3.389  1.00 47.38      A16S
ATOM   4663  N3  G   A 227     101.383  71.053  -2.073  1.00 47.38      A16S
ATOM   4664  C2  G   A 227     102.050  70.110  -1.438  1.00 47.38      A16S
ATOM   4665  N2  G   A 227     102.232  70.195  -0.120  1.00 47.38      A16S
ATOM   4666  N1  G   A 227     102.580  69.008  -2.050  1.00 47.38      A16S
ATOM   4667  C6  G   A 227     102.473  68.720  -3.404  1.00 47.38      A16S
ATOM   4668  O6  G   A 227     102.978  67.693  -3.853  1.00 47.38      A16S
ATOM   4669  C5  G   A 227     101.752  69.710  -4.092  1.00 47.38      A16S
ATOM   4670  N7  G   A 227     101.413  69.803  -5.433  1.00 47.38      A16S
ATOM   4671  C8  G   A 227     100.744  70.918  -5.519  1.00 47.38      A16S
ATOM   4672  C2* G   A 227     100.956  73.935  -3.716  1.00 34.82      A16S
ATOM   4673  O2* G   A 227     100.385  74.705  -2.689  1.00 34.82      A16S
ATOM   4674  C3* G   A 227     101.065  74.654  -5.058  1.00 34.82      A16S
ATOM   4675  O3* G   A 227     101.487  76.001  -4.946  1.00 34.82      A16S
ATOM   4676  P   A   A 228     103.003  76.383  -5.323  1.00 49.56      A16S
ATOM   4677  O1P A   A 228     103.161  77.860  -5.154  1.00 48.60      A16S
ATOM   4678  O2P A   A 228     103.317  75.749  -6.639  1.00 48.60      A16S
ATOM   4679  O5* A   A 228     103.855  75.697  -4.173  1.00 49.56      A16S
ATOM   4680  C5* A   A 228     103.673  76.133  -2.832  1.00 49.56      A16S
ATOM   4681  C4* A   A 228     104.316  75.184  -1.872  1.00 49.56      A16S
ATOM   4682  O4* A   A 228     103.677  73.888  -1.955  1.00 49.56      A16S
ATOM   4683  C1* A   A 228     104.622  72.874  -1.669  1.00 49.56      A16S
ATOM   4684  N9  A   A 228     104.739  71.997  -2.833  1.00 48.60      A16S
ATOM   4685  C4  A   A 228     105.326  70.759  -2.823  1.00 48.60      A16S
ATOM   4686  N3  A   A 228     105.876  70.132  -1.773  1.00 48.60      A16S
ATOM   4687  C2  A   A 228     106.349  68.945  -2.132  1.00 48.60      A16S
ATOM   4688  N1  A   A 228     106.338  68.356  -3.330  1.00 48.60      A16S
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ATOM   4689  C6  A   A 228     105.782  69.017  -4.367  1.00 48.60      A16S
ATOM   4690  N6  A   A 228     105.774  68.429  -5.565  1.00 48.60      A16S
ATOM   4691  C5  A   A 228     105.242  70.290  -4.117  1.00 48.60      A16S
ATOM   4692  N7  A   A 228     104.610  71.215  -4.934  1.00 48.60      A16S
ATOM   4693  C8  A   A 228     104.330  72.207  -4.125  1.00 48.60      A16S
ATOM   4694  C2* A   A 228     105.949  73.565  -1.366  1.00 49.56      A16S
ATOM   4695  O2* A   A 228     106.069  73.729   0.033  1.00 49.56      A16S
ATOM   4696  C3* A   A 228     105.778  74.883  -2.108  1.00 49.56      A16S
ATOM   4697  O3* A   A 228     106.634  75.916  -1.649  1.00 49.56      A16S
ATOM   4698  P   U   A 229     107.920  76.308  -2.529  1.00 44.23      A16S
ATOM   4699  O1P U   A 229     108.479  77.580  -1.995  1.00 33.21      A16S
ATOM   4700  O2P U   A 229     107.534  76.210  -3.972  1.00 33.21      A16S
ATOM   4701  O5* U   A 229     108.960  75.166  -2.164  1.00 44.23      A16S
ATOM   4702  C5* U   A 229     109.358  75.018  -0.810  1.00 44.23      A16S
ATOM   4703  C4* U   A 229     110.063  73.715  -0.604  1.00 44.23      A16S
ATOM   4704  O4* U   A 229     109.165  72.598  -0.800  1.00 44.23      A16S
ATOM   4705  C1* U   A 229     109.895  71.492  -1.290  1.00 44.23      A16S
ATOM   4706  N1  U   A 229     109.430  71.186  -2.644  1.00 33.21      A16S
ATOM   4707  C6  U   A 229     108.743  72.102  -3.381  1.00 33.21      A16S
ATOM   4708  C2  U   A 229     109.741  69.956  -3.160  1.00 33.21      A16S
ATOM   4709  O2  U   A 229     110.314  69.097  -2.516  1.00 33.21      A16S
ATOM   4710  N3  U   A 229     109.358  69.763  -4.459  1.00 33.21      A16S
ATOM   4711  C4  U   A 229     108.702  70.651  -5.264  1.00 33.21      A16S
ATOM   4712  O4  U   A 229     108.563  70.398  -6.454  1.00 33.21      A16S
ATOM   4713  C5  U   A 229     108.375  71.881  -4.638  1.00 33.21      A16S
ATOM   4714  C2* U   A 229     111.354  71.918  -1.376  1.00 44.23      A16S
ATOM   4715  O2* U   A 229     111.984  71.569  -0.164  1.00 44.23      A16S
ATOM   4716  C3* U   A 229     111.217  73.423  -1.532  1.00 44.23      A16S
ATOM   4717  O3* U   A 229     112.384  74.117  -1.145  1.00 44.23      A16S
ATOM   4718  P   G   A 230     113.536  74.380  -2.228  1.00 38.26      A16S
ATOM   4719  O1P G   A 230     114.699  74.894  -1.454  1.00 34.72      A16S
ATOM   4720  O2P G   A 230     113.018  75.138  -3.401  1.00 34.72      A16S
ATOM   4721  O5* G   A 230     113.902  72.930  -2.746  1.00 38.26      A16S
ATOM   4722  C5* G   A 230     114.460  71.983  -1.845  1.00 38.26      A16S
ATOM   4723  C4* G   A 230     114.784  70.714  -2.565  1.00 38.26      A16S
ATOM   4724  O4* G   A 230     113.570  70.074  -3.026  1.00 38.26      A16S
ATOM   4725  C1* G   A 230     113.842  69.364  -4.219  1.00 38.26      A16S
ATOM   4726  N9  G   A 230     112.961  69.843  -5.276  1.00 34.72      A16S
ATOM   4727  C4  G   A 230     112.674  69.160  -6.426  1.00 34.72      A16S
ATOM   4728  N3  G   A 230     113.102  67.923  -6.727  1.00 34.72      A16S
ATOM   4729  C2  G   A 230     112.668  67.529  -7.903  1.00 34.72      A16S
ATOM   4730  N2  G   A 230     112.955  66.291  -8.332  1.00 34.72      A16S
ATOM   4731  N1  G   A 230     111.913  68.305  -8.738  1.00 34.72      A16S
ATOM   4732  C6  G   A 230     111.473  69.584  -8.453  1.00 34.72      A16S
ATOM   4733  O6  G   A 230     110.819  70.199  -9.287  1.00 34.72      A16S
ATOM   4734  C5  G   A 230     111.889  70.004  -7.171  1.00 34.72      A16S
ATOM   4735  N7  G   A 230     111.640  71.183  -6.481  1.00 34.72      A16S
ATOM   4736  C8  G   A 230     112.293  71.042  -5.358  1.00 34.72      A16S
ATOM   4737  C2* G   A 230     115.307  69.600  -4.573  1.00 38.26      A16S
ATOM   4738  O2* G   A 230     116.086  68.539  -4.067  1.00 38.26      A16S
ATOM   4739  C3* G   A 230     115.589  70.889  -3.829  1.00 38.26      A16S
ATOM   4740  O3* G   A 230     116.954  71.081  -3.571  1.00 38.26      A16S
ATOM   4741  P   G   A 231     117.872  71.673  -4.734  1.00 45.54      A16S
ATOM   4742  O1P G   A 231     119.187  72.017  -4.115  1.00 45.05      A16S
ATOM   4743  O2P G   A 231     117.110  72.714  -5.494  1.00 45.05      A16S
ATOM   4744  O5* G   A 231     118.023  70.418  -5.694  1.00 45.54      A16S
ATOM   4745  C5* G   A 231     118.161  70.564  -7.105  1.00 45.54      A16S
ATOM   4746  C4* G   A 231     117.789  69.272  -7.770  1.00 45.54      A16S
ATOM   4747  O4* G   A 231     116.357  69.110  -7.687  1.00 45.54      A16S
ATOM   4748  C1* G   A 231     115.876  68.481  -8.860  1.00 45.54      A16S
ATOM   4749  N9  G   A 231     114.987  69.411  -9.544  1.00 45.05      A16S
ATOM   4750  C4  G   A 231     114.402  69.217 -10.762  1.00 45.05      A16S
ATOM   4751  N3  G   A 231     114.522  68.118 -11.523  1.00 45.05      A16S
ATOM   4752  C2  G   A 231     113.870  68.234 -12.653  1.00 45.05      A16S
ATOM   4753  N2  G   A 231     113.877  67.228 -13.525  1.00 45.05      A16S
ATOM   4754  N1  G   A 231     113.162  69.343 -13.014  1.00 45.05      A16S
ATOM   4755  C6  G   A 231     113.031  70.490 -12.244  1.00 45.05      A16S
ATOM   4756  O6  G   A 231     112.384  71.455 -12.672  1.00 45.05      A16S
ATOM   4757  C5  G   A 231     113.713  70.370 -11.024  1.00 45.05      A16S
ATOM   4758  N7  G   A 231     113.834  71.267  -9.976  1.00 45.05      A16S
ATOM   4759  C8  G   A 231     114.596  70.654  -9.119  1.00 45.05      A16S
ATOM   4760  C2* G   A 231     117.082  68.150  -9.729  1.00 45.54      A16S
ATOM   4761  O2* G   A 231     117.450  66.820  -9.465  1.00 45.54      A16S
ATOM   4762  C3* G   A 231     118.088  69.182  -9.247  1.00 45.54      A16S
ATOM   4763  O3* G   A 231     119.428  68.799  -9.451  1.00 45.54      A16S
ATOM   4764  P   G   A 232     120.249  69.423 -10.678  1.00 32.82      A16S
ATOM   4765  O1P G   A 232     121.659  68.979 -10.444  1.00 34.99      A16S
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ATOM   4766  O2P G   A 232     119.944  70.892 -10.808  1.00 34.99      A16S
ATOM   4767  O5* G   A 232     119.643  68.647 -11.938  1.00 32.82      A16S
ATOM   4768  C5* G   A 232     119.725  67.211 -12.023  1.00 32.82      A16S
ATOM   4769  C4* G   A 232     119.181  66.718 -13.344  1.00 32.82      A16S
ATOM   4770  O4* G   A 232     117.743  66.842 -13.383  1.00 32.82      A16S
ATOM   4771  C1* G   A 232     117.322  67.175 -14.689  1.00 32.82      A16S
ATOM   4772  N9  G   A 232     116.738  68.500 -14.614  1.00 34.99      A16S
ATOM   4773  C4  G   A 232     115.912  69.116 -15.527  1.00 34.99      A16S
ATOM   4774  N3  G   A 232     115.487  68.601 -16.695  1.00 34.99      A16S
ATOM   4775  C2  G   A 232     114.701  69.443 -17.345  1.00 34.99      A16S
ATOM   4776  N2  G   A 232     114.173  69.103 -18.535  1.00 34.99      A16S
ATOM   4777  N1  G   A 232     114.366  70.682 -16.886  1.00 34.99      A16S
ATOM   4778  C6  G   A 232     114.787  71.226 -15.686  1.00 34.99      A16S
ATOM   4779  O6  G   A 232     114.408  72.359 -15.351  1.00 34.99      A16S
ATOM   4780  C5  G   A 232     115.630  70.341 -14.983  1.00 34.99      A16S
ATOM   4781  N7  G   A 232     116.271  70.498 -13.762  1.00 34.99      A16S
ATOM   4782  C8  G   A 232     116.914  69.386 -13.588  1.00 34.99      A16S
ATOM   4783  C2* G   A 232     118.553  67.163 -15.578  1.00 32.82      A16S
ATOM   4784  O2* G   A 232     118.678  65.868 -16.105  1.00 32.82      A16S
ATOM   4785  C3* G   A 232     119.652  67.456 -14.574  1.00 32.82      A16S
ATOM   4786  O3* G   A 232     120.892  66.965 -15.015  1.00 32.82      A16S
ATOM   4787  P   C   A 233     121.909  67.970 -15.716  1.00 34.64      A16S
ATOM   4788  O1P C   A 233     123.077  67.203 -16.227  1.00 40.55      A16S
ATOM   4789  O2P C   A 233     122.113  69.073 -14.732  1.00 40.55      A16S
ATOM   4790  O5* C   A 233     121.103  68.476 -16.986  1.00 34.64      A16S
ATOM   4791  C5* C   A 233     120.852  67.568 -18.054  1.00 34.64      A16S
ATOM   4792  C4* C   A 233     120.005  68.209 -19.114  1.00 34.64      A16S
ATOM   4793  O4* C   A 233     118.681  68.472 -18.590  1.00 34.64      A16S
ATOM   4794  C1* C   A 233     118.164  69.647 -19.182  1.00 34.64      A16S
ATOM   4795  N1  C   A 233     117.990  70.649 -18.123  1.00 40.55      A16S
ATOM   4796  C6  C   A 233     118.496  70.441 -16.877  1.00 40.55      A16S
ATOM   4797  C2  C   A 233     117.325  71.830 -18.420  1.00 40.55      A16S
ATOM   4798  O2  C   A 233     116.857  71.986 -19.556  1.00 40.55      A16S
ATOM   4799  N3  C   A 233     117.210  72.775 -17.473  1.00 40.55      A16S
ATOM   4800  C4  C   A 233     117.732  72.573 -16.268  1.00 40.55      A16S
ATOM   4801  N4  C   A 233     117.622  73.551 -15.365  1.00 40.55      A16S
ATOM   4802  C5  C   A 233     118.394  71.368 -15.933  1.00 40.55      A16S
ATOM   4803  C2* C   A 233     119.191  70.123 -20.209  1.00 34.64      A16S
ATOM   4804  O2* C   A 233     118.892  69.545 -21.459  1.00 34.64      A16S
ATOM   4805  C3* C   A 233     120.476  69.550 -19.639  1.00 34.64      A16S
ATOM   4806  O3* C   A 233     121.512  69.428 -20.605  1.00 34.64      A16S
ATOM   4807  P   C   A 234     122.663  70.560 -20.685  1.00 38.61      A16S
ATOM   4808  O1P C   A 234     123.728  69.949 -21.508  1.00 23.17      A16S
ATOM   4809  O2P C   A 234     123.013  71.138 -19.333  1.00 23.17      A16S
ATOM   4810  O5* C   A 234     121.970  71.694 -21.552  1.00 38.61      A16S
ATOM   4811  C5* C   A 234     121.411  71.354 -22.811  1.00 38.61      A16S
ATOM   4812  C4* C   A 234     120.565  72.476 -23.329  1.00 38.61      A16S
ATOM   4813  O4* C   A 234     119.414  72.676 -22.483  1.00 38.61      A16S
ATOM   4814  C1* C   A 234     119.068  74.043 -22.475  1.00 38.61      A16S
ATOM   4815  N1  C   A 234     119.183  74.531 -21.106  1.00 23.17      A16S
ATOM   4816  C6  C   A 234     119.787  73.784 -20.143  1.00 23.17      A16S
ATOM   4817  C2  C   A 234     118.681  75.784 -20.810  1.00 23.17      A16S
ATOM   4818  O2  C   A 234     118.110  76.429 -21.706  1.00 23.17      A16S
ATOM   4819  N3  C   A 234     118.822  76.273 -19.565  1.00 23.17      A16S
ATOM   4820  C4  C   A 234     119.435  75.551 -18.639  1.00 23.17      A16S
ATOM   4821  N4  C   A 234     119.586  76.087 -17.441  1.00 23.17      A16S
ATOM   4822  C5  C   A 234     119.931  74.251 -18.907  1.00 23.17      A16S
ATOM   4823  C2* C   A 234     120.055  74.775 -23.378  1.00 38.61      A16S
ATOM   4824  O2* C   A 234     119.511  74.932 -24.675  1.00 38.61      A16S
ATOM   4825  C3* C   A 234     121.232  73.823 -23.351  1.00 38.61      A16S
ATOM   4826  O3* C   A 234     122.055  73.968 -24.465  1.00 38.61      A16S
ATOM   4827  P   C   A 235     123.331  74.896 -24.339  1.00 22.74      A16S
ATOM   4828  O1P C   A 235     124.082  74.688 -25.603  1.00 38.58      A16S
ATOM   4829  O2P C   A 235     123.996  74.635 -23.032  1.00 38.58      A16S
ATOM   4830  O5* C   A 235     122.709  76.358 -24.282  1.00 22.74      A16S
ATOM   4831  C5* C   A 235     122.159  76.928 -25.464  1.00 22.74      A16S
ATOM   4832  C4* C   A 235     121.658  78.318 -25.211  1.00 22.74      A16S
ATOM   4833  O4* C   A 235     120.682  78.260 -24.153  1.00 22.74      A16S
ATOM   4834  C1* C   A 235     120.685  79.479 -23.449  1.00 22.74      A16S
ATOM   4835  N1  C   A 235     121.011  79.212 -22.045  1.00 38.58      A16S
ATOM   4836  C6  C   A 235     121.590  78.041 -21.659  1.00 38.58      A16S
ATOM   4837  C2  C   A 235     120.722  80.195 -21.108  1.00 38.58      A16S
ATOM   4838  O2  C   A 235     120.185  81.251 -21.490  1.00 38.58      A16S
ATOM   4839  N3  C   A 235     121.030  79.987 -19.817  1.00 38.58      A16S
ATOM   4840  C4  C   A 235     121.607  78.854 -19.450  1.00 38.58      A16S
ATOM   4841  N4  C   A 235     121.916  78.711 -18.165  1.00 38.58      A16S
ATOM   4842  C5  C   A 235     121.900  77.823 -20.383  1.00 38.58      A16S
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ATOM   4843  C2* C   A 235     121.717  80.391 -24.106  1.00 22.74      A16S
ATOM   4844  O2* C   A 235     121.067  81.207 -25.065  1.00 22.74      A16S
ATOM   4845  C3* C   A 235     122.644  79.376 -24.752  1.00 22.74      A16S
ATOM   4846  O3* C   A 235     123.354  79.962 -25.827  1.00 22.74      A16S
ATOM   4847  P   G   A 236     124.708  80.799 -25.537  1.00 17.76      A16S
ATOM   4848  O1P G   A 236     125.320  81.042 -26.876  1.00 29.45      A16S
ATOM   4849  O2P G   A 236     125.509  80.144 -24.463  1.00 29.45      A16S
ATOM   4850  O5* G   A 236     124.206  82.211 -25.005  1.00 17.76      A16S
ATOM   4851  C5* G   A 236     123.570  83.141 -25.885  1.00 17.76      A16S
ATOM   4852  C4* G   A 236     123.472  84.477 -25.213  1.00 17.76      A16S
ATOM   4853  O4* G   A 236     122.564  84.391 -24.093  1.00 17.76      A16S
ATOM   4854  C1* G   A 236     123.067  85.143 -23.005  1.00 17.76      A16S
ATOM   4855  N9  G   A 236     123.338  84.196 -21.935  1.00 29.45      A16S
ATOM   4856  C4  G   A 236     123.520  84.456 -20.598  1.00 29.45      A16S
ATOM   4857  N3  G   A 236     123.483  85.667 -20.008  1.00 29.45      A16S
ATOM   4858  C2  G   A 236     123.698  85.590 -18.701  1.00 29.45      A16S
ATOM   4859  N2  G   A 236     123.686  86.702 -17.950  1.00 29.45      A16S
ATOM   4860  N1  G   A 236     123.938  84.418 -18.026  1.00 29.45      A16S
ATOM   4861  C6  G   A 236     123.986  83.154 -18.607  1.00 29.45      A16S
ATOM   4862  O6  G   A 236     124.227  82.135 -17.897  1.00 29.45      A16S
ATOM   4863  C5  G   A 236     123.743  83.226 -20.019  1.00 29.45      A16S
ATOM   4864  N7  G   A 236     123.695  82.219 -20.973  1.00 29.45      A16S
ATOM   4865  C8  G   A 236     123.457  82.840 -22.087  1.00 29.45      A16S
ATOM   4866  C2* G   A 236     124.319  85.868 -23.489  1.00 17.76      A16S
ATOM   4867  O2* G   A 236     123.968  87.142 -23.994  1.00 17.76      A16S
ATOM   4868  C3* G   A 236     124.777  84.958 -24.614  1.00 17.76      A16S
ATOM   4869  O3* G   A 236     125.547  85.651 -25.576  1.00 17.76      A16S
ATOM   4870  P   C   A 237     127.141  85.522 -25.540  1.00 28.96      A16S
ATOM   4871  O1P C   A 237     127.591  86.302 -26.717  1.00 25.56      A16S
ATOM   4872  O2P C   A 237     127.471  84.089 -25.444  1.00 25.56      A16S
ATOM   4873  O5* C   A 237     127.579  86.234 -24.174  1.00 28.96      A16S
ATOM   4874  C5* C   A 237     127.496  87.669 -24.051  1.00 28.96      A16S
ATOM   4875  C4* C   A 237     127.656  88.117 -22.618  1.00 28.96      A16S
ATOM   4876  O4* C   A 237     126.594  87.574 -21.804  1.00 28.96      A16S
ATOM   4877  C1* C   A 237     127.069  87.355 -20.482  1.00 28.96      A16S
ATOM   4878  N1  C   A 237     127.023  85.917 -20.171  1.00 25.56      A16S
ATOM   4879  C6  C   A 237     126.956  84.976 -21.158  1.00 25.56      A16S
ATOM   4880  C2  C   A 237     127.094  85.531 -18.837  1.00 25.56      A16S
ATOM   4881  O2  C   A 237     127.106  86.399 -17.974  1.00 25.56      A16S
ATOM   4882  N3  C   A 237     127.150  84.231 -18.525  1.00 25.56      A16S
ATOM   4883  C4  C   A 237     127.131  83.321 -19.492  1.00 25.56      A16S
ATOM   4884  N4  C   A 237     127.239  82.046 -19.146  1.00 25.56      A16S
ATOM   4885  C5  C   A 237     127.012  83.679 -20.865  1.00 25.56      A16S
ATOM   4886  C2* C   A 237     128.523  87.798 -20.437  1.00 28.96      A16S
ATOM   4887  O2* C   A 237     128.590  89.100 -19.914  1.00 28.96      A16S
ATOM   4888  C3* C   A 237     128.915  87.686 -21.900  1.00 28.96      A16S
ATOM   4889  O3* C   A 237     130.017  88.497 -22.192  1.00 28.96      A16S
ATOM   4890  P   G   A 238     131.477  87.859 -22.147  1.00 23.03      A16S
ATOM   4891  O1P G   A 238     132.380  88.881 -22.722  1.00 29.33      A16S
ATOM   4892  O2P G   A 238     131.411  86.503 -22.752  1.00 29.33      A16S
ATOM   4893  O5* G   A 238     131.788  87.710 -20.602  1.00 23.03      A16S
ATOM   4894  C5* G   A 238     131.909  88.865 -19.801  1.00 23.03      A16S
ATOM   4895  C4* G   A 238     132.152  88.483 -18.384  1.00 23.03      A16S
ATOM   4896  O4* G   A 238     131.007  87.750 -17.894  1.00 23.03      A16S
ATOM   4897  C1* G   A 238     131.427  86.775 -16.950  1.00 23.03      A16S
ATOM   4898  N9  G   A 238     131.001  85.455 -17.413  1.00 29.33      A16S
ATOM   4899  C4  G   A 238     130.934  84.310 -16.655  1.00 29.33      A16S
ATOM   4900  N3  G   A 238     131.234  84.206 -15.347  1.00 29.33      A16S
ATOM   4901  C2  G   A 238     131.107  82.965 -14.905  1.00 29.33      A16S
ATOM   4902  N2  G   A 238     131.388  82.678 -13.629  1.00 29.33      A16S
ATOM   4903  N1  G   A 238     130.703  81.911 -15.677  1.00 29.33      A16S
ATOM   4904  C6  G   A 238     130.387  81.987 -17.024  1.00 29.33      A16S
ATOM   4905  O6  G   A 238     130.049  80.964 -17.632  1.00 29.33      A16S
ATOM   4906  C5  G   A 238     130.524  83.320 -17.521  1.00 29.33      A16S
ATOM   4907  N7  G   A 238     130.322  83.834 -18.798  1.00 29.33      A16S
ATOM   4908  C8  G   A 238     130.609  85.102 -18.683  1.00 29.33      A16S
ATOM   4909  C2* G   A 238     132.945  86.899 -16.823  1.00 23.03      A16S
ATOM   4910  O2* G   A 238     133.245  87.714 -15.696  1.00 23.03      A16S
ATOM   4911  C3* G   A 238     133.309  87.540 -18.160  1.00 23.03      A16S
ATOM   4912  O3* G   A 238     134.555  88.210 -18.175  1.00 23.03      A16S
ATOM   4913  P   U   A 239     135.808  87.507 -18.897  1.00 45.02      A16S
ATOM   4914  O1P U   A 239     136.924  88.481 -18.914  1.00 44.09      A16S
ATOM   4915  O2P U   A 239     135.353  86.882 -20.169  1.00 44.09      A16S
ATOM   4916  O5* U   A 239     136.229  86.366 -17.876  1.00 45.02      A16S
ATOM   4917  C5* U   A 239     136.695  86.724 -16.569  1.00 45.02      A16S
ATOM   4918  C4* U   A 239     136.864  85.500 -15.717  1.00 45.02      A16S
ATOM   4919  O4* U   A 239     135.573  84.906 -15.458  1.00 45.02      A16S
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ATOM   4920  C1* U   A 239     135.724  83.511 -15.326  1.00 45.02      A16S
ATOM   4921  N1  U   A 239     134.852  82.843 -16.300  1.00 44.09      A16S
ATOM   4922  C6  U   A 239     134.546  83.418 -17.501  1.00 44.09      A16S
ATOM   4923  C2  U   A 239     134.368  81.599 -15.967  1.00 44.09      A16S
ATOM   4924  O2  U   A 239     134.592  81.071 -14.894  1.00 44.09      A16S
ATOM   4925  N3  U   A 239     133.609  80.995 -16.934  1.00 44.09      A16S
ATOM   4926  C4  U   A 239     133.289  81.504 -18.170  1.00 44.09      A16S
ATOM   4927  O4  U   A 239     132.644  80.816 -18.966  1.00 44.09      A16S
ATOM   4928  C5  U   A 239     133.802  82.808 -18.423  1.00 44.09      A16S
ATOM   4929  C2* U   A 239     137.202  83.172 -15.539  1.00 45.02      A16S
ATOM   4930  O2* U   A 239     137.851  83.094 -14.288  1.00 45.02      A16S
ATOM   4931  C3* U   A 239     137.696  84.380 -16.313  1.00 45.02      A16S
ATOM   4932  O3* U   A 239     139.086  84.583 -16.086  1.00 45.02      A16S
ATOM   4933  P   C   A 240     140.085  84.702 -17.340  1.00 41.43      A16S
ATOM   4934  O1P C   A 240     140.049  86.120 -17.817  1.00 35.05      A16S
ATOM   4935  O2P C   A 240     139.763  83.588 -18.285  1.00 35.05      A16S
ATOM   4936  O5* C   A 240     141.520  84.433 -16.724  1.00 41.43      A16S
ATOM   4937  C5* C   A 240     142.013  85.261 -15.693  1.00 41.43      A16S
ATOM   4938  C4* C   A 240     143.327  84.738 -15.201  1.00 41.43      A16S
ATOM   4939  O4* C   A 240     143.132  83.409 -14.667  1.00 41.43      A16S
ATOM   4940  C1* C   A 240     144.279  82.622 -14.930  1.00 41.43      A16S
ATOM   4941  N1  C   A 240     143.895  81.550 -15.861  1.00 35.05      A16S
ATOM   4942  C6  C   A 240     142.834  81.716 -16.698  1.00 35.05      A16S
ATOM   4943  C2  C   A 240     144.629  80.364 -15.883  1.00 35.05      A16S
ATOM   4944  O2  C   A 240     145.609  80.243 -15.132  1.00 35.05      A16S
ATOM   4945  N3  C   A 240     144.261  79.385 -16.727  1.00 35.05      A16S
ATOM   4946  C4  C   A 240     143.217  79.562 -17.536  1.00 35.05      A16S
ATOM   4947  N4  C   A 240     142.876  78.570 -18.358  1.00 35.05      A16S
ATOM   4948  C5  C   A 240     142.469  80.760 -17.543  1.00 35.05      A16S
ATOM   4949  C2* C   A 240     145.308  83.545 -15.567  1.00 41.43      A16S
ATOM   4950  O2* C   A 240     146.018  84.181 -14.534  1.00 41.43      A16S
ATOM   4951  C3* C   A 240     144.412  84.554 -16.243  1.00 41.43      A16S
ATOM   4952  O3* C   A 240     145.112  85.741 -16.531  1.00 41.43      A16S
ATOM   4953  P   C   A 241     145.740  85.941 -17.997  1.00 36.02      A16S
ATOM   4954  O1P C   A 241     146.227  87.336 -18.033  1.00 38.13      A16S
ATOM   4955  O2P C   A 241     144.797  85.465 -19.038  1.00 38.13      A16S
ATOM   4956  O5* C   A 241     146.989  84.962 -18.008  1.00 36.02      A16S
ATOM   4957  C5* C   A 241     148.125  85.256 -17.201  1.00 36.02      A16S
ATOM   4958  C4* C   A 241     149.200  84.235 -17.422  1.00 36.02      A16S
ATOM   4959  O4* C   A 241     148.686  82.939 -17.044  1.00 36.02      A16S
ATOM   4960  C1* C   A 241     149.266  81.944 -17.859  1.00 36.02      A16S
ATOM   4961  N1  C   A 241     148.188  81.193 -18.521  1.00 38.13      A16S
ATOM   4962  C6  C   A 241     146.943  81.728 -18.674  1.00 38.13      A16S
ATOM   4963  C2  C   A 241     148.458  79.912 -18.976  1.00 38.13      A16S
ATOM   4964  O2  C   A 241     149.598  79.466 -18.838  1.00 38.13      A16S
ATOM   4965  N3  C   A 241     147.480  79.189 -19.552  1.00 38.13      A16S
ATOM   4966  C4  C   A 241     146.263  79.708 -19.682  1.00 38.13      A16S
ATOM   4967  N4  C   A 241     145.319  78.954 -20.242  1.00 38.13      A16S
ATOM   4968  C5  C   A 241     145.958  81.025 -19.241  1.00 38.13      A16S
ATOM   4969  C2* C   A 241     150.243  82.632 -18.811  1.00 36.02      A16S
ATOM   4970  O2* C   A 241     151.537  82.590 -18.231  1.00 36.02      A16S
ATOM   4971  C3* C   A 241     149.681  84.044 -18.847  1.00 36.02      A16S
ATOM   4972  O3* C   A 241     150.661  84.996 -19.207  1.00 36.02      A16S
ATOM   4973  P   C   A 242     150.622  85.641 -20.681  1.00 39.72      A16S
ATOM   4974  O1P C   A 242     151.393  86.917 -20.656  1.00 44.06      A16S
ATOM   4975  O2P C   A 242     149.213  85.632 -21.194  1.00 44.06      A16S
ATOM   4976  O5* C   A 242     151.437  84.610 -21.569  1.00 39.72      A16S
ATOM   4977  C5* C   A 242     152.707  84.134 -21.151  1.00 39.72      A16S
ATOM   4978  C4* C   A 242     153.054  82.921 -21.944  1.00 39.72      A16S
ATOM   4979  O4* C   A 242     152.218  81.815 -21.543  1.00 39.72      A16S
ATOM   4980  C1* C   A 242     152.050  80.938 -22.637  1.00 39.72      A16S
ATOM   4981  N1  C   A 242     150.631  80.581 -22.762  1.00 44.06      A16S
ATOM   4982  C6  C   A 242     149.652  81.460 -22.413  1.00 44.06      A16S
ATOM   4983  C2  C   A 242     150.299  79.324 -23.259  1.00 44.06      A16S
ATOM   4984  O2  C   A 242     151.206  78.542 -23.559  1.00 44.06      A16S
ATOM   4985  N3  C   A 242     149.001  78.991 -23.406  1.00 44.06      A16S
ATOM   4986  C4  C   A 242     148.054  79.867 -23.083  1.00 44.06      A16S
ATOM   4987  N4  C   A 242     146.788  79.519 -23.272  1.00 44.06      A16S
ATOM   4988  C5  C   A 242     148.363  81.146 -22.558  1.00 44.06      A16S
ATOM   4989  C2* C   A 242     152.631  81.615 -23.878  1.00 39.72      A16S
ATOM   4990  O2* C   A 242     153.879  81.025 -24.185  1.00 39.72      A16S
ATOM   4991  C3* C   A 242     152.759  83.061 -23.418  1.00 39.72      A16S
ATOM   4992  O3* C   A 242     153.802  83.746 -24.072  1.00 39.72      A16S
ATOM   4993  P   A   A 243     153.488  84.528 -25.428  1.00 24.53      A16S
ATOM   4994  O1P A   A 243     154.775  84.964 -26.022  1.00 39.59      A16S
ATOM   4995  O2P A   A 243     152.432  85.531 -25.169  1.00 39.59      A16S
ATOM   4996  O5* A   A 243     152.841  83.390 -26.319  1.00 24.53      A16S
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ATOM   4997  C5* A   A 243     153.649  82.392 -26.926  1.00 24.53      A16S
ATOM   4998  C4* A   A 243     153.289  82.292 -28.375  1.00 24.53      A16S
ATOM   4999  O4* A   A 243     151.891  81.976 -28.465  1.00 24.53      A16S
ATOM   5000  C1* A   A 243     151.445  82.360 -29.730  1.00 24.53      A16S
ATOM   5001  N9  A   A 243     149.988  82.271 -29.723  1.00 39.59      A16S
ATOM   5002  C4  A   A 243     149.285  81.201 -30.217  1.00 39.59      A16S
ATOM   5003  N3  A   A 243     149.780  80.123 -30.848  1.00 39.59      A16S
ATOM   5004  C2  A   A 243     148.813  79.269 -31.139  1.00 39.59      A16S
ATOM   5005  N1  A   A 243     147.510  79.357 -30.886  1.00 39.59      A16S
ATOM   5006  C6  A   A 243     147.051  80.450 -30.250  1.00 39.59      A16S
ATOM   5007  N6  A   A 243     145.757  80.525 -29.974  1.00 39.59      A16S
ATOM   5008  C5  A   A 243     147.972  81.437 -29.904  1.00 39.59      A16S
ATOM   5009  N7  A   A 243     147.835  82.659 -29.274  1.00 39.59      A16S
ATOM   5010  C8  A   A 243     149.059  83.118 -29.205  1.00 39.59      A16S
ATOM   5011  C2* A   A 243     152.125  83.694 -30.018  1.00 24.53      A16S
ATOM   5012  O2* A   A 243     152.290  83.732 -31.413  1.00 24.53      A16S
ATOM   5013  C3* A   A 243     153.392  83.606 -29.125  1.00 24.53      A16S
ATOM   5014  O3* A   A 243     154.755  83.993 -29.474  1.00 24.53      A16S
ATOM   5015  P   U   A 244     155.518  83.390 -30.768  1.00 34.67      A16S
ATOM   5016  O1P U   A 244     156.515  84.429 -31.126  1.00 43.13      A16S
ATOM   5017  O2P U   A 244     154.594  82.872 -31.800  1.00 43.13      A16S
ATOM   5018  O5* U   A 244     156.326  82.146 -30.229  1.00 34.67      A16S
ATOM   5019  C5* U   A 244     156.209  81.751 -28.882  1.00 34.67      A16S
ATOM   5020  C4* U   A 244     156.691  80.348 -28.719  1.00 34.67      A16S
ATOM   5021  O4* U   A 244     158.037  80.250 -29.240  1.00 34.67      A16S
ATOM   5022  C1* U   A 244     158.930  79.890 -28.214  1.00 34.67      A16S
ATOM   5023  N1  U   A 244     160.181  80.637 -28.415  1.00 43.13      A16S
ATOM   5024  C6  U   A 244     160.180  81.915 -28.919  1.00 43.13      A16S
ATOM   5025  C2  U   A 244     161.369  80.007 -28.091  1.00 43.13      A16S
ATOM   5026  O2  U   A 244     161.422  78.885 -27.613  1.00 43.13      A16S
ATOM   5027  N3  U   A 244     162.499  80.741 -28.338  1.00 43.13      A16S
ATOM   5028  C4  U   A 244     162.564  82.013 -28.848  1.00 43.13      A16S
ATOM   5029  O4  U   A 244     163.659  82.536 -29.012  1.00 43.13      A16S
ATOM   5030  C5  U   A 244     161.301  82.605 -29.141  1.00 43.13      A16S
ATOM   5031  C2* U   A 244     158.214  80.180 -26.896  1.00 34.67      A16S
ATOM   5032  O2* U   A 244     158.645  79.300 -25.876  1.00 34.67      A16S
ATOM   5033  C3* U   A 244     156.757  79.934 -27.271  1.00 34.67      A16S
ATOM   5034  O3* U   A 244     156.386  78.571 -27.200  1.00 34.67      A16S
ATOM   5035  P   C   A 245     154.880  78.199 -26.809  1.00 39.81      A16S
ATOM   5036  O1P C   A 245     154.292  79.437 -26.243  1.00 37.52      A16S
ATOM   5037  O2P C   A 245     154.856  76.953 -26.002  1.00 37.52      A16S
ATOM   5038  O5* C   A 245     154.194  77.885 -28.211  1.00 39.81      A16S
ATOM   5039  C5* C   A 245     154.432  76.633 -28.848  1.00 39.81      A16S
ATOM   5040  C4* C   A 245     153.148  76.060 -29.367  1.00 39.81      A16S
ATOM   5041  O4* C   A 245     152.169  76.073 -28.308  1.00 39.81      A16S
ATOM   5042  C1* C   A 245     150.881  76.262 -28.871  1.00 39.81      A16S
ATOM   5043  N1  C   A 245     150.246  77.454 -28.289  1.00 37.52      A16S
ATOM   5044  C6  C   A 245     150.973  78.394 -27.621  1.00 37.52      A16S
ATOM   5045  C2  C   A 245     148.867  77.624 -28.468  1.00 37.52      A16S
ATOM   5046  O2  C   A 245     148.220  76.741 -29.054  1.00 37.52      A16S
ATOM   5047  N3  C   A 245     148.279  78.743 -28.008  1.00 37.52      A16S
ATOM   5048  C4  C   A 245     149.008  79.671 -27.394  1.00 37.52      A16S
ATOM   5049  N4  C   A 245     148.395  80.780 -27.007  1.00 37.52      A16S
ATOM   5050  C5  C   A 245     150.400  79.508 -27.164  1.00 37.52      A16S
ATOM   5051  C2* C   A 245     151.036  76.428 -30.384  1.00 39.81      A16S
ATOM   5052  O2* C   A 245     150.715  75.228 -31.056  1.00 39.81      A16S
ATOM   5053  C3* C   A 245     152.498  76.826 -30.506  1.00 39.81      A16S
ATOM   5054  O3* C   A 245     153.014  76.418 -31.764  1.00 39.81      A16S
ATOM   5055  P   A   A 246     153.129  77.475 -32.969  1.00 36.51      A16S
ATOM   5056  O1P A   A 246     154.028  76.813 -33.953  1.00 37.07      A16S
ATOM   5057  O2P A   A 246     153.484  78.811 -32.425  1.00 37.07      A16S
ATOM   5058  O5* A   A 246     151.660  77.577 -33.582  1.00 36.51      A16S
ATOM   5059  C5* A   A 246     150.958  76.396 -33.993  1.00 36.51      A16S
ATOM   5060  C4* A   A 246     149.998  76.700 -35.123  1.00 36.51      A16S
ATOM   5061  O4* A   A 246     148.787  77.334 -34.633  1.00 36.51      A16S
ATOM   5062  C1* A   A 246     148.473  78.414 -35.476  1.00 36.51      A16S
ATOM   5063  N9  A   A 246     147.675  79.398 -34.754  1.00 37.07      A16S
ATOM   5064  C4  A   A 246     146.311  79.493 -34.832  1.00 37.07      A16S
ATOM   5065  N3  A   A 246     145.480  78.712 -35.541  1.00 37.07      A16S
ATOM   5066  C2  A   A 246     144.219  79.115 -35.401  1.00 37.07      A16S
ATOM   5067  N1  A   A 246     143.734  80.133 -34.692  1.00 37.07      A16S
ATOM   5068  C6  A   A 246     144.599  80.901 -33.994  1.00 37.07      A16S
ATOM   5069  N6  A   A 246     144.119  81.934 -33.303  1.00 37.07      A16S
ATOM   5070  C5  A   A 246     145.964  80.570 -34.050  1.00 37.07      A16S
ATOM   5071  N7  A   A 246     147.088  81.134 -33.465  1.00 37.07      A16S
ATOM   5072  C8  A   A 246     148.074  80.402 -33.912  1.00 37.07      A16S
ATOM   5073  C2* A   A 246     149.811  78.897 -36.015  1.00 36.51      A16S
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ATOM   5074  O2*  A   A 246     149.561  79.662 -37.171  1.00 36.51      A16S
ATOM   5075  C3*  A   A 246     150.503  77.563 -36.274  1.00 36.51      A16S
ATOM   5076  O3*  A   A 246     149.914  77.048 -37.452  1.00 36.51      A16S
ATOM   5077  P    G   A 247     150.805  76.293 -38.541  1.00 32.39      A16S
ATOM   5078  O1P  G   A 247     151.312  75.051 -37.896  1.00 30.72      A16S
ATOM   5079  O2P  G   A 247     151.759  77.255 -39.121  1.00 30.72      A16S
ATOM   5080  O5*  G   A 247     149.720  75.948 -39.658  1.00 32.39      A16S
ATOM   5081  C5*  G   A 247     148.819  74.813 -39.502  1.00 32.39      A16S
ATOM   5082  C4*  G   A 247     148.053  74.901 -38.189  1.00 32.39      A16S
ATOM   5083  O4*  G   A 247     147.239  76.110 -38.199  1.00 32.39      A16S
ATOM   5084  C1*  G   A 247     146.008  75.860 -37.536  1.00 32.39      A16S
ATOM   5085  N9   G   A 247     144.926  75.899 -38.519  1.00 30.72      A16S
ATOM   5086  C4   G   A 247     143.581  75.859 -38.238  1.00 30.72      A16S
ATOM   5087  N3   G   A 247     143.028  75.789 -37.006  1.00 30.72      A16S
ATOM   5088  C2   G   A 247     141.705  75.774 -37.055  1.00 30.72      A16S
ATOM   5089  N2   G   A 247     141.000  75.717 -35.925  1.00 30.72      A16S
ATOM   5090  N1   G   A 247     140.978  75.818 -38.215  1.00 30.72      A16S
ATOM   5091  C6   G   A 247     141.519  75.891 -39.494  1.00 30.72      A16S
ATOM   5092  O6   G   A 247     140.766  75.941 -40.476  1.00 30.72      A16S
ATOM   5093  C5   G   A 247     142.950  75.905 -39.460  1.00 30.72      A16S
ATOM   5094  N7   G   A 247     143.878  75.968 -40.491  1.00 30.72      A16S
ATOM   5095  C8   G   A 247     145.033  75.963 -39.886  1.00 30.72      A16S
ATOM   5096  C2*  G   A 247     146.097  74.463 -36.936  1.00 32.39      A16S
ATOM   5097  O2*  G   A 247     146.657  74.539 -35.645  1.00 32.39      A16S
ATOM   5098  C3*  G   A 247     147.046  73.787 -37.906  1.00 32.39      A16S
ATOM   5099  O3*  G   A 247     147.573  72.583 -37.356  1.00 32.39      A16S
ATOM   5100  P    C   A 248     146.755  71.196 -37.558  1.00 43.97      A16S
ATOM   5101  O1P  C   A 248     147.536  70.084 -36.966  1.00 32.04      A16S
ATOM   5102  O2P  C   A 248     146.290  71.101 -38.959  1.00 32.04      A16S
ATOM   5103  O5*  C   A 248     145.471  71.338 -36.642  1.00 43.97      A16S
ATOM   5104  C5*  C   A 248     145.598  71.206 -35.234  1.00 43.97      A16S
ATOM   5105  C4*  C   A 248     144.247  71.103 -34.599  1.00 43.97      A16S
ATOM   5106  O4*  C   A 248     143.486  72.298 -34.900  1.00 43.97      A16S
ATOM   5107  C1*  C   A 248     142.115  71.976 -34.980  1.00 43.97      A16S
ATOM   5108  N1   C   A 248     141.639  72.248 -36.345  1.00 32.04      A16S
ATOM   5109  C6   C   A 248     142.507  72.504 -37.365  1.00 32.04      A16S
ATOM   5110  C2   C   A 248     140.267  72.224 -36.584  1.00 32.04      A16S
ATOM   5111  O2   C   A 248     139.499  72.013 -35.633  1.00 32.04      A16S
ATOM   5112  N3   C   A 248     139.806  72.432 -37.838  1.00 32.04      A16S
ATOM   5113  C4   C   A 248     140.661  72.669 -38.824  1.00 32.04      A16S
ATOM   5114  N4   C   A 248     140.164  72.858 -40.039  1.00 32.04      A16S
ATOM   5115  C5   C   A 248     142.063  72.720 -38.607  1.00 32.04      A16S
ATOM   5116  C2*  C   A 248     141.991  70.494 -34.651  1.00 43.97      A16S
ATOM   5117  O2*  C   A 248     141.865  70.341 -33.250  1.00 43.97      A16S
ATOM   5118  C3*  C   A 248     143.348  69.984 -35.083  1.00 43.97      A16S
ATOM   5119  O3*  C   A 248     143.636  68.726 -34.501  1.00 43.97      A16S
ATOM   5120  P    U   A 249     143.268  67.387 -35.316  1.00 46.06      A16S
ATOM   5121  O1P  U   A 249     143.596  66.261 -34.403  1.00 39.76      A16S
ATOM   5122  O2P  U   A 249     143.866  67.437 -36.676  1.00 39.76      A16S
ATOM   5123  O5*  U   A 249     141.692  67.467 -35.493  1.00 46.06      A16S
ATOM   5124  C5*  U   A 249     140.848  67.424 -34.346  1.00 46.06      A16S
ATOM   5125  C4*  U   A 249     139.402  67.397 -34.749  1.00 46.06      A16S
ATOM   5126  O4*  U   A 249     139.051  68.636 -35.410  1.00 46.06      A16S
ATOM   5127  C1*  U   A 249     138.034  68.385 -36.362  1.00 46.06      A16S
ATOM   5128  N1   U   A 249     138.497  68.814 -37.690  1.00 39.76      A16S
ATOM   5129  C6   U   A 249     139.829  68.936 -37.997  1.00 39.76      A16S
ATOM   5130  C2   U   A 249     137.533  69.073 -38.632  1.00 39.76      A16S
ATOM   5131  O2   U   A 249     136.339  68.986 -38.397  1.00 39.76      A16S
ATOM   5132  N3   U   A 249     138.009  69.425 -39.864  1.00 39.76      A16S
ATOM   5133  C4   U   A 249     139.317  69.529 -40.248  1.00 39.76      A16S
ATOM   5134  O4   U   A 249     139.575  69.650 -41.440  1.00 39.76      A16S
ATOM   5135  C5   U   A 249     140.260  69.275 -39.213  1.00 39.76      A16S
ATOM   5136  C2*  U   A 249     137.709  66.891 -36.313  1.00 46.06      A16S
ATOM   5137  O2*  U   A 249     136.621  66.698 -35.434  1.00 46.06      A16S
ATOM   5138  C3*  U   A 249     138.992  66.318 -35.733  1.00 46.06      A16S
ATOM   5139  O3*  U   A 249     138.792  65.066 -35.097  1.00 46.06      A16S
ATOM   5140  P    A   A 250     139.093  63.714 -35.909  1.00 68.23      A16S
ATOM   5141  O1P  A   A 250     139.442  62.663 -34.918  1.00100.82      A16S
ATOM   5142  O2P  A   A 250     140.029  64.011 -37.020  1.00100.82      A16S
ATOM   5143  O5*  A   A 250     137.689  63.363 -36.564  1.00 68.23      A16S
ATOM   5144  C5*  A   A 250     136.602  62.874 -35.763  1.00 68.23      A16S
ATOM   5145  C4*  A   A 250     135.664  62.074 -36.622  1.00 68.23      A16S
ATOM   5146  O4*  A   A 250     135.086  62.955 -37.609  1.00 68.23      A16S
ATOM   5147  C1*  A   A 250     134.992  62.294 -38.853  1.00 68.23      A16S
ATOM   5148  N9   A   A 250     135.536  63.191 -39.868  1.00100.82      A16S
ATOM   5149  C4   A   A 250     135.056  63.358 -41.141  1.00100.82      A16S
ATOM   5150  N3   A   A 250     134.053  62.682 -41.728  1.00100.82      A16S
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ATOM   5151  C2  A   A 250     133.839  63.142 -42.960  1.00100.82      A16S
ATOM   5152  N1  A   A 250     134.460  64.134 -43.618  1.00100.82      A16S
ATOM   5153  C6  A   A 250     135.464  64.797 -42.993  1.00100.82      A16S
ATOM   5154  N6  A   A 250     136.076  65.798 -43.636  1.00100.82      A16S
ATOM   5155  C5  A   A 250     135.797  64.394 -41.689  1.00100.82      A16S
ATOM   5156  N7  A   A 250     136.757  64.839 -40.793  1.00100.82      A16S
ATOM   5157  C8  A   A 250     136.571  64.087 -39.736  1.00100.82      A16S
ATOM   5158  C2* A   A 250     135.556  60.875 -38.721  1.00 68.23      A16S
ATOM   5159  O2* A   A 250     134.483  59.955 -38.755  1.00 68.23      A16S
ATOM   5160  C3* A   A 250     136.347  60.967 -37.409  1.00 68.23      A16S
ATOM   5161  O3* A   A 250     136.538  59.783 -36.591  1.00 68.23      A16S
ATOM   5162  P   G   A 251     135.274  58.981 -35.947  1.00 83.00      A16S
ATOM   5163  O1P G   A 251     135.804  58.221 -34.769  1.00 40.73      A16S
ATOM   5164  O2P G   A 251     134.546  58.250 -37.015  1.00 40.73      A16S
ATOM   5165  O5* G   A 251     134.280  60.094 -35.371  1.00 83.00      A16S
ATOM   5166  C5* G   A 251     133.390  59.788 -34.268  1.00 83.00      A16S
ATOM   5167  C4* G   A 251     132.517  60.980 -33.923  1.00 83.00      A16S
ATOM   5168  O4* G   A 251     131.576  61.244 -34.990  1.00 83.00      A16S
ATOM   5169  C1* G   A 251     130.256  61.216 -34.487  1.00 83.00      A16S
ATOM   5170  N9  G   A 251     129.402  60.707 -35.553  1.00 40.73      A16S
ATOM   5171  C4  G   A 251     128.530  61.461 -36.305  1.00 40.73      A16S
ATOM   5172  N3  G   A 251     128.215  62.752 -36.091  1.00 40.73      A16S
ATOM   5173  C2  G   A 251     127.425  63.234 -37.025  1.00 40.73      A16S
ATOM   5174  N2  G   A 251     127.002  64.497 -36.946  1.00 40.73      A16S
ATOM   5175  N1  G   A 251     126.993  62.521 -38.100  1.00 40.73      A16S
ATOM   5176  C6  G   A 251     127.315  61.198 -38.360  1.00 40.73      A16S
ATOM   5177  O6  G   A 251     126.919  60.667 -39.404  1.00 40.73      A16S
ATOM   5178  C5  G   A 251     128.133  60.644 -37.332  1.00 40.73      A16S
ATOM   5179  N7  G   A 251     128.657  59.360 -37.174  1.00 40.73      A16S
ATOM   5180  C8  G   A 251     129.383  59.440 -36.090  1.00 40.73      A16S
ATOM   5181  C2* G   A 251     130.307  60.423 -33.188  1.00 83.00      A16S
ATOM   5182  O2* G   A 251     129.256  60.813 -32.328  1.00 83.00      A16S
ATOM   5183  C3* G   A 251     131.681  60.818 -32.653  1.00 83.00      A16S
ATOM   5184  O3* G   A 251     131.571  62.080 -31.987  1.00 83.00      A16S
ATOM   5185  P   U   A 252     132.870  63.020 -31.821  1.00 39.12      A16S
ATOM   5186  O1P U   A 252     134.069  62.143 -31.744  1.00 45.59      A16S
ATOM   5187  O2P U   A 252     132.621  63.999 -30.732  1.00 45.59      A16S
ATOM   5188  O5* U   A 252     132.906  63.832 -33.197  1.00 39.12      A16S
ATOM   5189  C5* U   A 252     133.954  64.765 -33.421  1.00 39.12      A16S
ATOM   5190  C4* U   A 252     133.760  65.547 -34.698  1.00 39.12      A16S
ATOM   5191  O4* U   A 252     133.971  64.738 -35.872  1.00 39.12      A16S
ATOM   5192  C1* U   A 252     133.541  65.477 -36.993  1.00 39.12      A16S
ATOM   5193  N1  U   A 252     132.798  64.609 -37.915  1.00 45.59      A16S
ATOM   5194  C6  U   A 252     132.158  63.482 -37.489  1.00 45.59      A16S
ATOM   5195  C2  U   A 252     132.764  64.981 -39.238  1.00 45.59      A16S
ATOM   5196  O2  U   A 252     133.323  65.971 -39.663  1.00 45.59      A16S
ATOM   5197  N3  U   A 252     132.053  64.152 -40.053  1.00 45.59      A16S
ATOM   5198  C4  U   A 252     131.389  63.015 -39.692  1.00 45.59      A16S
ATOM   5199  O4  U   A 252     130.764  62.387 -40.544  1.00 45.59      A16S
ATOM   5200  C5  U   A 252     131.475  62.692 -38.311  1.00 45.59      A16S
ATOM   5201  C2* U   A 252     132.712  66.652 -36.475  1.00 39.12      A16S
ATOM   5202  O2* U   A 252     133.535  67.801 -36.553  1.00 39.12      A16S
ATOM   5203  C3* U   A 252     132.464  66.262 -35.020  1.00 39.12      A16S
ATOM   5204  O3* U   A 252     132.301  67.457 -34.267  1.00 39.12      A16S
ATOM   5205  P   U   A 253     130.832  67.893 -33.774  1.00 27.00      A16S
ATOM   5206  O1P U   A 253     131.058  68.953 -32.749  1.00 29.94      A16S
ATOM   5207  O2P U   A 253     130.070  66.666 -33.424  1.00 29.94      A16S
ATOM   5208  O5* U   A 253     130.144  68.549 -35.048  1.00 27.00      A16S
ATOM   5209  C5* U   A 253     130.155  69.966 -35.187  1.00 27.00      A16S
ATOM   5210  C4* U   A 253     129.377  70.393 -36.391  1.00 27.00      A16S
ATOM   5211  O4* U   A 253     130.081  70.006 -37.596  1.00 27.00      A16S
ATOM   5212  C1* U   A 253     129.146  69.745 -38.622  1.00 27.00      A16S
ATOM   5213  N1  U   A 253     129.158  68.308 -38.926  1.00 29.94      A16S
ATOM   5214  C6  U   A 253     129.639  67.370 -38.041  1.00 29.94      A16S
ATOM   5215  C2  U   A 253     128.603  67.925 -40.125  1.00 29.94      A16S
ATOM   5216  O2  U   A 253     128.244  68.727 -40.963  1.00 29.94      A16S
ATOM   5217  N3  U   A 253     128.490  66.575 -40.312  1.00 29.94      A16S
ATOM   5218  C4  U   A 253     128.895  65.588 -39.456  1.00 29.94      A16S
ATOM   5219  O4  U   A 253     128.620  64.418 -39.720  1.00 29.94      A16S
ATOM   5220  C5  U   A 253     129.530  66.057 -38.259  1.00 29.94      A16S
ATOM   5221  C2* U   A 253     127.768  70.069 -38.054  1.00 27.00      A16S
ATOM   5222  O2* U   A 253     127.485  71.425 -38.316  1.00 27.00      A16S
ATOM   5223  C3* U   A 253     127.992  69.807 -36.576  1.00 27.00      A16S
ATOM   5224  O3* U   A 253     126.997  70.386 -35.755  1.00 27.00      A16S
ATOM   5225  P   G   A 254     125.652  69.565 -35.462  1.00 37.63      A16S
ATOM   5226  O1P G   A 254     124.838  70.345 -34.522  1.00 34.14      A16S
ATOM   5227  O2P G   A 254     125.974  68.156 -35.157  1.00 34.14      A16S
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ATOM   5228  O5*  G   A 254     124.892  69.622 -36.850  1.00 37.63      A16S
ATOM   5229  C5*  G   A 254     124.314  70.856 -37.280  1.00 37.63      A16S
ATOM   5230  C4*  G   A 254     123.679  70.684 -38.619  1.00 37.63      A16S
ATOM   5231  O4*  G   A 254     124.693  70.222 -39.544  1.00 37.63      A16S
ATOM   5232  C1*  G   A 254     124.134  69.276 -40.433  1.00 37.63      A16S
ATOM   5233  N9   G   A 254     124.725  67.978 -40.132  1.00 34.14      A16S
ATOM   5234  C4   G   A 254     124.640  66.850 -40.907  1.00 34.14      A16S
ATOM   5235  N3   G   A 254     124.056  66.768 -42.115  1.00 34.14      A16S
ATOM   5236  C2   G   A 254     124.089  65.538 -42.585  1.00 34.14      A16S
ATOM   5237  N2   G   A 254     123.578  65.279 -43.784  1.00 34.14      A16S
ATOM   5238  N1   G   A 254     124.630  64.469 -41.917  1.00 34.14      A16S
ATOM   5239  C6   G   A 254     125.229  64.532 -40.669  1.00 34.14      A16S
ATOM   5240  O6   G   A 254     125.659  63.506 -40.141  1.00 34.14      A16S
ATOM   5241  C5   G   A 254     125.232  65.850 -40.165  1.00 34.14      A16S
ATOM   5242  N7   G   A 254     125.735  66.354 -38.974  1.00 34.14      A16S
ATOM   5243  C8   G   A 254     125.419  67.621 -39.000  1.00 34.14      A16S
ATOM   5244  C2*  G   A 254     122.636  69.220 -40.138  1.00 37.63      A16S
ATOM   5245  O2*  G   A 254     121.936  70.161 -40.933  1.00 37.63      A16S
ATOM   5246  C3*  G   A 254     122.611  69.615 -38.676  1.00 37.63      A16S
ATOM   5247  O3*  G   A 254     121.347  70.092 -38.286  1.00 37.63      A16S
ATOM   5248  P    G   A 255     120.214  69.040 -37.883  1.00 35.60      A16S
ATOM   5249  O1P  G   A 255     119.034  69.808 -37.440  1.00 38.92      A16S
ATOM   5250  O2P  G   A 255     120.805  68.022 -36.990  1.00 38.92      A16S
ATOM   5251  O5*  G   A 255     119.872  68.310 -39.248  1.00 35.60      A16S
ATOM   5252  C5*  G   A 255     119.327  69.040 -40.352  1.00 35.60      A16S
ATOM   5253  C4*  G   A 255     118.980  68.088 -41.460  1.00 35.60      A16S
ATOM   5254  O4*  G   A 255     120.186  67.414 -41.876  1.00 35.60      A16S
ATOM   5255  C1*  G   A 255     119.886  66.089 -42.237  1.00 35.60      A16S
ATOM   5256  N9   G   A 255     120.719  65.203 -41.446  1.00 38.92      A16S
ATOM   5257  C4   G   A 255     120.957  63.879 -41.705  1.00 38.92      A16S
ATOM   5258  N3   G   A 255     120.439  63.165 -42.723  1.00 38.92      A16S
ATOM   5259  C2   G   A 255     120.869  61.918 -42.712  1.00 38.92      A16S
ATOM   5260  N2   G   A 255     120.473  61.056 -43.652  1.00 38.92      A16S
ATOM   5261  N1   G   A 255     121.727  61.420 -41.781  1.00 38.92      A16S
ATOM   5262  C6   G   A 255     122.275  62.140 -40.738  1.00 38.92      A16S
ATOM   5263  O6   G   A 255     123.055  61.598 -39.978  1.00 38.92      A16S
ATOM   5264  C5   G   A 255     121.825  63.467 -40.727  1.00 38.92      A16S
ATOM   5265  N7   G   A 255     122.116  64.506 -39.859  1.00 38.92      A16S
ATOM   5266  C8   G   A 255     121.432  65.515 -40.323  1.00 38.92      A16S
ATOM   5267  C2*  G   A 255     118.394  65.858 -42.040  1.00 35.60      A16S
ATOM   5268  O2*  G   A 255     117.747  66.003 -43.288  1.00 35.60      A16S
ATOM   5269  C3*  G   A 255     118.042  66.964 -41.058  1.00 35.60      A16S
ATOM   5270  O3*  G   A 255     116.678  67.359 -41.159  1.00 35.60      A16S
ATOM   5271  P    U   A 256     115.587  66.674 -40.205  1.00 35.72      A16S
ATOM   5272  O1P  U   A 256     114.310  67.413 -40.383  1.00 65.56      A16S
ATOM   5273  O2P  U   A 256     116.182  66.545 -38.854  1.00 65.56      A16S
ATOM   5274  O5*  U   A 256     115.438  65.210 -40.806  1.00 35.72      A16S
ATOM   5275  C5*  U   A 256     114.751  65.006 -42.047  1.00 35.72      A16S
ATOM   5276  C4*  U   A 256     114.763  63.550 -42.417  1.00 35.72      A16S
ATOM   5277  O4*  U   A 256     116.129  63.143 -42.665  1.00 35.72      A16S
ATOM   5278  C1*  U   A 256     116.302  61.794 -42.282  1.00 35.72      A16S
ATOM   5279  N1   U   A 256     117.340  61.737 -41.248  1.00 65.56      A16S
ATOM   5280  C6   U   A 256     117.691  62.847 -40.526  1.00 65.56      A16S
ATOM   5281  C2   U   A 256     117.959  60.524 -41.031  1.00 65.56      A16S
ATOM   5282  O2   U   A 256     117.656  59.512 -41.639  1.00 65.56      A16S
ATOM   5283  N3   U   A 256     118.942  60.536 -40.074  1.00 65.56      A16S
ATOM   5284  C4   U   A 256     119.354  61.614 -39.327  1.00 65.56      A16S
ATOM   5285  O4   U   A 256     120.299  61.488 -38.551  1.00 65.56      A16S
ATOM   5286  C5   U   A 256     118.649  62.828 -39.597  1.00 65.56      A16S
ATOM   5287  C2*  U   A 256     114.955  61.286 -41.780  1.00 35.72      A16S
ATOM   5288  O2*  U   A 256     114.238  60.694 -42.846  1.00 35.72      A16S
ATOM   5289  C3*  U   A 256     114.297  62.580 -41.349  1.00 35.72      A16S
ATOM   5290  O3*  U   A 256     112.893  62.450 -41.258  1.00 35.72      A16S
ATOM   5291  P    G   A 257     112.230  62.192 -39.820  1.00 63.02      A16S
ATOM   5292  O1P  G   A 257     110.782  62.511 -39.955  1.00 72.22      A16S
ATOM   5293  O2P  G   A 257     113.044  62.905 -38.805  1.00 72.22      A16S
ATOM   5294  O5*  G   A 257     112.451  60.631 -39.565  1.00 63.02      A16S
ATOM   5295  C5*  G   A 257     111.800  59.646 -40.396  1.00 63.02      A16S
ATOM   5296  C4*  G   A 257     112.438  58.287 -40.218  1.00 63.02      A16S
ATOM   5297  O4*  G   A 257     113.836  58.362 -40.594  1.00 63.02      A16S
ATOM   5298  C1*  G   A 257     114.609  57.534 -39.742  1.00 63.02      A16S
ATOM   5299  N9   G   A 257     115.532  58.391 -39.001  1.00 72.22      A16S
ATOM   5300  C4   G   A 257     116.623  57.993 -38.257  1.00 72.22      A16S
ATOM   5301  N3   G   A 257     117.048  56.725 -38.081  1.00 72.22      A16S
ATOM   5302  C2   G   A 257     118.124  56.667 -37.317  1.00 72.22      A16S
ATOM   5303  N2   G   A 257     118.688  55.489 -37.050  1.00 72.22      A16S
ATOM   5304  N1   G   A 257     118.728  57.762 -36.760  1.00 72.22      A16S
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ATOM   5305  C6  G   A 257     118.302  59.075 -36.919  1.00 72.22      A16S
ATOM   5306  O6  G   A 257     118.908  59.996 -36.355  1.00 72.22      A16S
ATOM   5307  C5  G   A 257     117.159  59.154 -37.748  1.00 72.22      A16S
ATOM   5308  N7  G   A 257     116.429  60.259 -38.163  1.00 72.22      A16S
ATOM   5309  C8  G   A 257     115.477  59.760 -38.900  1.00 72.22      A16S
ATOM   5310  C2* G   A 257     113.640  56.793 -38.821  1.00 63.02      A16S
ATOM   5311  O2* G   A 257     113.291  55.543 -39.381  1.00 63.02      A16S
ATOM   5312  C3* G   A 257     112.451  57.738 -38.803  1.00 63.02      A16S
ATOM   5313  O3* G   A 257     111.268  57.032 -38.490  1.00 63.02      A16S
ATOM   5314  P   G   A 258     110.818  56.899 -36.958  1.00 66.04      A16S
ATOM   5315  O1P G   A 258     109.568  56.088 -36.976  1.00 74.18      A16S
ATOM   5316  O2P G   A 258     110.801  58.264 -36.377  1.00 74.18      A16S
ATOM   5317  O5* G   A 258     111.986  56.068 -36.247  1.00 66.04      A16S
ATOM   5318  C5* G   A 258     112.060  54.636 -36.404  1.00 66.04      A16S
ATOM   5319  C4* G   A 258     113.245  54.050 -35.657  1.00 66.04      A16S
ATOM   5320  O4* G   A 258     114.480  54.623 -36.150  1.00 66.04      A16S
ATOM   5321  C1* G   A 258     115.452  54.610 -35.120  1.00 66.04      A16S
ATOM   5322  N9  G   A 258     115.940  55.970 -34.913  1.00 74.18      A16S
ATOM   5323  C4  G   A 258     117.047  56.344 -34.181  1.00 74.18      A16S
ATOM   5324  N3  G   A 258     117.884  55.517 -33.532  1.00 74.18      A16S
ATOM   5325  C2  G   A 258     118.846  56.175 -32.920  1.00 74.18      A16S
ATOM   5326  N2  G   A 258     119.758  55.505 -32.231  1.00 74.18      A16S
ATOM   5327  N1  G   A 258     118.980  57.537 -32.939  1.00 74.18      A16S
ATOM   5328  C6  G   A 258     118.126  58.410 -33.594  1.00 74.18      A16S
ATOM   5329  O6  G   A 258     118.321  59.627 -33.533  1.00 74.18      A16S
ATOM   5330  C5  G   A 258     117.092  57.717 -34.264  1.00 74.18      A16S
ATOM   5331  N7  G   A 258     116.049  58.198 -35.041  1.00 74.18      A16S
ATOM   5332  C8  G   A 258     115.392  57.129 -35.401  1.00 74.18      A16S
ATOM   5333  C2* G   A 258     114.806  54.004 -33.874  1.00 66.04      A16S
ATOM   5334  O2* G   A 258     115.131  52.631 -33.817  1.00 66.04      A16S
ATOM   5335  C3* G   A 258     113.323  54.212 -34.147  1.00 66.04      A16S
ATOM   5336  O3* G   A 258     112.578  53.206 -33.474  1.00 66.04      A16S
ATOM   5337  P   G   A 259     112.225  53.386 -31.915  1.00 59.53      A16S
ATOM   5338  O1P G   A 259     111.290  52.293 -31.534  1.00 71.20      A16S
ATOM   5339  O2P G   A 259     111.812  54.796 -31.713  1.00 71.20      A16S
ATOM   5340  O5* G   A 259     113.609  53.145 -31.156  1.00 59.53      A16S
ATOM   5341  C5* G   A 259     114.286  51.872 -31.232  1.00 59.53      A16S
ATOM   5342  C4* G   A 259     115.611  51.918 -30.494  1.00 59.53      A16S
ATOM   5343  O4* G   A 259     116.526  52.819 -31.163  1.00 59.53      A16S
ATOM   5344  C1* G   A 259     117.296  53.524 -30.199  1.00 59.53      A16S
ATOM   5345  N9  G   A 259     117.018  54.953 -30.346  1.00 71.20      A16S
ATOM   5346  C4  G   A 259     117.725  55.986 -29.789  1.00 71.20      A16S
ATOM   5347  N3  G   A 259     118.803  55.867 -28.998  1.00 71.20      A16S
ATOM   5348  C2  G   A 259     119.272  57.040 -28.627  1.00 71.20      A16S
ATOM   5349  N2  G   A 259     120.346  57.104 -27.838  1.00 71.20      A16S
ATOM   5350  N1  G   A 259     118.724  58.239 -29.000  1.00 71.20      A16S
ATOM   5351  C6  G   A 259     117.608  58.387 -29.815  1.00 71.20      A16S
ATOM   5352  O6  G   A 259     117.186  59.519 -30.094  1.00 71.20      A16S
ATOM   5353  C5  G   A 259     117.097  57.133 -30.221  1.00 71.20      A16S
ATOM   5354  N7  G   A 259     116.012  56.829 -31.030  1.00 71.20      A16S
ATOM   5355  C8  G   A 259     116.002  55.529 -31.074  1.00 71.20      A16S
ATOM   5356  C2* G   A 259     116.933  52.977 -28.816  1.00 59.53      A16S
ATOM   5357  O2* G   A 259     117.863  51.991 -28.414  1.00 59.53      A16S
ATOM   5358  C3* G   A 259     115.546  52.403 -29.058  1.00 59.53      A16S
ATOM   5359  O3* G   A 259     115.320  51.321 -28.187  1.00 59.53      A16S
ATOM   5360  P   G   A 260     114.515  51.564 -26.833  1.00 46.61      A16S
ATOM   5361  O1P G   A 260     114.521  50.292 -26.067  1.00 69.90      A16S
ATOM   5362  O2P G   A 260     113.213  52.186 -27.212  1.00 69.90      A16S
ATOM   5363  O5* G   A 260     115.392  52.641 -26.044  1.00 46.61      A16S
ATOM   5364  C5* G   A 260     116.727  52.339 -25.577  1.00 46.61      A16S
ATOM   5365  C4* G   A 260     117.338  53.555 -24.907  1.00 46.61      A16S
ATOM   5366  O4* G   A 260     117.667  54.567 -25.893  1.00 46.61      A16S
ATOM   5367  C1* G   A 260     117.463  55.858 -25.346  1.00 46.61      A16S
ATOM   5368  N9  G   A 260     116.538  56.587 -26.208  1.00 69.90      A16S
ATOM   5369  C4  G   A 260     116.435  57.950 -26.330  1.00 69.90      A16S
ATOM   5370  N3  G   A 260     117.173  58.863 -25.671  1.00 69.90      A16S
ATOM   5371  C2  G   A 260     116.847  60.097 -26.011  1.00 69.90      A16S
ATOM   5372  N2  G   A 260     117.486  61.133 -25.457  1.00 69.90      A16S
ATOM   5373  N1  G   A 260     115.871  60.407 -26.920  1.00 69.90      A16S
ATOM   5374  C6  G   A 260     115.096  59.483 -27.607  1.00 69.90      A16S
ATOM   5375  O6  G   A 260     114.233  59.871 -28.405  1.00 69.90      A16S
ATOM   5376  C5  G   A 260     115.437  58.160 -27.257  1.00 69.90      A16S
ATOM   5377  N7  G   A 260     114.922  56.956 -27.707  1.00 69.90      A16S
ATOM   5378  C8  G   A 260     115.602  56.053 -27.059  1.00 69.90      A16S
ATOM   5379  C2* G   A 260     116.964  55.689 -23.911  1.00 46.61      A16S
ATOM   5380  O2* G   A 260     118.021  55.893 -22.996  1.00 46.61      A16S
ATOM   5381  C3* G   A 260     116.434  54.261 -23.919  1.00 46.61      A16S
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ATOM   5382  O3*  G   A 260     116.504  53.656 -22.643  1.00 46.61      A16S
ATOM   5383  P    U   A 261     115.177  53.564 -21.738  1.00 45.56      A16S
ATOM   5384  O1P  U   A 261     114.010  53.444 -22.678  1.00 47.84      A16S
ATOM   5385  O2P  U   A 261     115.394  52.528 -20.683  1.00 47.84      A16S
ATOM   5386  O5*  U   A 261     115.113  54.975 -21.005  1.00 45.56      A16S
ATOM   5387  C5*  U   A 261     116.197  55.396 -20.162  1.00 45.56      A16S
ATOM   5388  C4*  U   A 261     116.140  56.887 -19.915  1.00 45.56      A16S
ATOM   5389  O4*  U   A 261     116.429  57.621 -21.129  1.00 45.56      A16S
ATOM   5390  C1*  U   A 261     115.709  58.831 -21.130  1.00 45.56      A16S
ATOM   5391  N1   U   A 261     114.923  58.897 -22.370  1.00 47.84      A16S
ATOM   5392  C6   U   A 261     114.567  57.769 -23.055  1.00 47.84      A16S
ATOM   5393  C2   U   A 261     114.562  60.140 -22.834  1.00 47.84      A16S
ATOM   5394  O2   U   A 261     114.863  61.169 -22.268  1.00 47.84      A16S
ATOM   5395  N3   U   A 261     113.839  60.140 -23.993  1.00 47.84      A16S
ATOM   5396  C4   U   A 261     113.461  59.054 -24.726  1.00 47.84      A16S
ATOM   5397  O4   U   A 261     112.824  59.222 -25.764  1.00 47.84      A16S
ATOM   5398  C5   U   A 261     113.873  57.804 -24.189  1.00 47.84      A16S
ATOM   5399  C2*  U   A 261     114.906  58.905 -19.830  1.00 45.56      A16S
ATOM   5400  O2*  U   A 261     115.654  59.659 -18.902  1.00 45.56      A16S
ATOM   5401  C3*  U   A 261     114.818  57.438 -19.425  1.00 45.56      A16S
ATOM   5402  O3*  U   A 261     114.713  57.248 -18.016  1.00 45.56      A16S
ATOM   5403  P    A   A 262     113.283  56.908 -17.361  1.00 33.02      A16S
ATOM   5404  O1P  A   A 262     112.689  55.712 -18.025  1.00 42.78      A16S
ATOM   5405  O2P  A   A 262     113.456  56.919 -15.893  1.00 42.78      A16S
ATOM   5406  O5*  A   A 262     112.401  58.166 -17.765  1.00 33.02      A16S
ATOM   5407  C5*  A   A 262     110.998  58.211 -17.503  1.00 33.02      A16S
ATOM   5408  C4*  A   A 262     110.530  59.637 -17.544  1.00 33.02      A16S
ATOM   5409  O4*  A   A 262     111.020  60.337 -16.381  1.00 33.02      A16S
ATOM   5410  C1*  A   A 262     111.436  61.630 -16.751  1.00 33.02      A16S
ATOM   5411  N9   A   A 262     112.845  61.770 -16.376  1.00 42.78      A16S
ATOM   5412  C4   A   A 262     113.557  62.944 -16.332  1.00 42.78      A16S
ATOM   5413  N3   A   A 262     113.124  64.170 -16.661  1.00 42.78      A16S
ATOM   5414  C2   A   A 262     114.070  65.066 -16.455  1.00 42.78      A16S
ATOM   5415  N1   A   A 262     115.306  64.895 -15.987  1.00 42.78      A16S
ATOM   5416  C6   A   A 262     115.712  63.655 -15.665  1.00 42.78      A16S
ATOM   5417  N6   A   A 262     116.943  63.498 -15.182  1.00 42.78      A16S
ATOM   5418  C5   A   A 262     114.807  62.609 -15.852  1.00 42.78      A16S
ATOM   5419  N7   A   A 262     114.900  61.241 -15.636  1.00 42.78      A16S
ATOM   5420  C8   A   A 262     113.716  60.789 -15.966  1.00 42.78      A16S
ATOM   5421  C2*  A   A 262     111.133  61.831 -18.240  1.00 33.02      A16S
ATOM   5422  O2*  A   A 262     109.911  62.526 -18.381  1.00 33.02      A16S
ATOM   5423  C3*  A   A 262     111.062  60.397 -18.742  1.00 33.02      A16S
ATOM   5424  O3*  A   A 262     110.152  60.241 -19.816  1.00 33.02      A16S
ATOM   5425  P    A   A 263     110.694  60.195 -21.319  1.00 30.85      A16S
ATOM   5426  O1P  A   A 263     109.531  60.066 -22.237  1.00 30.29      A16S
ATOM   5427  O2P  A   A 263     111.792  59.198 -21.382  1.00 30.29      A16S
ATOM   5428  O5*  A   A 263     111.261  61.662 -21.513  1.00 30.85      A16S
ATOM   5429  C5*  A   A 263     110.355  62.780 -21.537  1.00 30.85      A16S
ATOM   5430  C4*  A   A 263     111.109  64.061 -21.790  1.00 30.85      A16S
ATOM   5431  O4*  A   A 263     111.749  64.522 -20.578  1.00 30.85      A16S
ATOM   5432  C1*  A   A 263     113.011  65.056 -20.894  1.00 30.85      A16S
ATOM   5433  N9   A   A 263     114.006  64.237 -20.214  1.00 30.29      A16S
ATOM   5434  C4   A   A 263     115.120  64.678 -19.555  1.00 30.29      A16S
ATOM   5435  N3   A   A 263     115.510  65.945 -19.381  1.00 30.29      A16S
ATOM   5436  C2   A   A 263     116.645  65.987 -18.715  1.00 30.29      A16S
ATOM   5437  N1   A   A 263     117.379  64.982 -18.237  1.00 30.29      A16S
ATOM   5438  C6   A   A 263     116.947  63.727 -18.420  1.00 30.29      A16S
ATOM   5439  N6   A   A 263     117.666  62.729 -17.930  1.00 30.29      A16S
ATOM   5440  C5   A   A 263     115.764  63.548 -19.110  1.00 30.29      A16S
ATOM   5441  N7   A   A 263     115.061  62.411 -19.458  1.00 30.29      A16S
ATOM   5442  C8   A   A 263     114.026  62.874 -20.107  1.00 30.29      A16S
ATOM   5443  C2*  A   A 263     113.161  65.052 -22.416  1.00 30.85      A16S
ATOM   5444  O2*  A   A 263     112.690  66.281 -22.899  1.00 30.85      A16S
ATOM   5445  C3*  A   A 263     112.211  63.942 -22.822  1.00 30.85      A16S
ATOM   5446  O3*  A   A 263     111.659  64.145 -24.108  1.00 30.85      A16S
ATOM   5447  P    U   A 264     112.508  63.753 -25.400  1.00 25.98      A16S
ATOM   5448  O1P  U   A 264     111.567  63.496 -26.523  1.00 40.61      A16S
ATOM   5449  O2P  U   A 264     113.465  62.700 -24.999  1.00 40.61      A16S
ATOM   5450  O5*  U   A 264     113.337  65.076 -25.706  1.00 25.98      A16S
ATOM   5451  C5*  U   A 264     112.675  66.292 -26.089  1.00 25.98      A16S
ATOM   5452  C4*  U   A 264     113.693  67.348 -26.414  1.00 25.98      A16S
ATOM   5453  O4*  U   A 264     114.325  67.816 -25.199  1.00 25.98      A16S
ATOM   5454  C1*  U   A 264     115.697  68.071 -25.436  1.00 25.98      A16S
ATOM   5455  N1   U   A 264     116.499  67.213 -24.548  1.00 40.61      A16S
ATOM   5456  C6   U   A 264     116.007  66.025 -24.072  1.00 40.61      A16S
ATOM   5457  C2   U   A 264     117.781  67.626 -24.222  1.00 40.61      A16S
ATOM   5458  O2   U   A 264     118.242  68.692 -24.559  1.00 40.61      A16S
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ATOM   5459  N3  U   A 264     118.500  66.744 -23.468  1.00 40.61      A16S
ATOM   5460  C4  U   A 264     118.072  65.534 -22.983  1.00 40.61      A16S
ATOM   5461  O4  U   A 264     118.843  64.845 -22.312  1.00 40.61      A16S
ATOM   5462  C5  U   A 264     116.725  65.199 -23.318  1.00 40.61      A16S
ATOM   5463  C2* U   A 264     115.961  67.815 -26.922  1.00 25.98      A16S
ATOM   5464  O2* U   A 264     115.865  69.045 -27.607  1.00 25.98      A16S
ATOM   5465  C3* U   A 264     114.831  66.864 -27.285  1.00 25.98      A16S
ATOM   5466  O3* U   A 264     114.463  66.955 -28.649  1.00 25.98      A16S
ATOM   5467  P   G   A 265     114.974  65.840 -29.680  1.00 31.68      A16S
ATOM   5468  O1P G   A 265     114.505  66.213 -31.034  1.00 60.30      A16S
ATOM   5469  O2P G   A 265     114.648  64.499 -29.134  1.00 60.30      A16S
ATOM   5470  O5* G   A 265     116.550  66.020 -29.632  1.00 31.68      A16S
ATOM   5471  C5* G   A 265     117.145  67.285 -29.932  1.00 31.68      A16S
ATOM   5472  C4* G   A 265     118.600  67.286 -29.548  1.00 31.68      A16S
ATOM   5473  O4* G   A 265     118.734  67.264 -28.108  1.00 31.68      A16S
ATOM   5474  C1* G   A 265     119.969  66.662 -27.758  1.00 31.68      A16S
ATOM   5475  N9  G   A 265     119.743  65.543 -26.852  1.00 60.30      A16S
ATOM   5476  C4  G   A 265     120.645  65.075 -25.942  1.00 60.30      A16S
ATOM   5477  N3  G   A 265     121.848  65.611 -25.688  1.00 60.30      A16S
ATOM   5478  C2  G   A 265     122.513  64.919 -24.787  1.00 60.30      A16S
ATOM   5479  N2  G   A 265     123.724  65.327 -24.402  1.00 60.30      A16S
ATOM   5480  N1  G   A 265     122.040  63.780 -24.192  1.00 60.30      A16S
ATOM   5481  C6  G   A 265     120.797  63.214 -24.435  1.00 60.30      A16S
ATOM   5482  O6  G   A 265     120.464  62.182 -23.836  1.00 60.30      A16S
ATOM   5483  C5  G   A 265     120.068  63.957 -25.393  1.00 60.30      A16S
ATOM   5484  N7  G   A 265     118.804  63.751 -25.916  1.00 60.30      A16S
ATOM   5485  C8  G   A 265     118.649  64.724 -26.770  1.00 60.30      A16S
ATOM   5486  C2* G   A 265     120.622  66.169 -29.044  1.00 31.68      A16S
ATOM   5487  O2* G   A 265     121.618  67.097 -29.419  1.00 31.68      A16S
ATOM   5488  C3* G   A 265     119.426  66.095 -29.987  1.00 31.68      A16S
ATOM   5489  O3* G   A 265     119.779  66.143 -31.355  1.00 31.68      A16S
ATOM   5490  P   G   A 266     120.199  64.791 -32.104  1.00 37.50      A16S
ATOM   5491  O1P G   A 266     120.275  65.136 -33.537  1.00 53.87      A16S
ATOM   5492  O2P G   A 266     119.323  63.681 -31.667  1.00 53.87      A16S
ATOM   5493  O5* G   A 266     121.668  64.528 -31.552  1.00 37.50      A16S
ATOM   5494  C5* G   A 266     122.428  63.380 -31.969  1.00 37.50      A16S
ATOM   5495  C4* G   A 266     123.745  63.305 -31.208  1.00 37.50      A16S
ATOM   5496  O4* G   A 266     124.524  62.193 -31.727  1.00 37.50      A16S
ATOM   5497  C1* G   A 266     125.531  62.679 -32.570  1.00 37.50      A16S
ATOM   5498  N9  G   A 266     124.996  62.592 -33.925  1.00 53.87      A16S
ATOM   5499  C4  G   A 266     125.064  61.493 -34.720  1.00 53.87      A16S
ATOM   5500  N3  G   A 266     125.661  60.336 -34.403  1.00 53.87      A16S
ATOM   5501  C2  G   A 266     125.547  59.446 -35.377  1.00 53.87      A16S
ATOM   5502  N2  G   A 266     126.091  58.215 -35.249  1.00 53.87      A16S
ATOM   5503  N1  G   A 266     124.894  59.686 -36.557  1.00 53.87      A16S
ATOM   5504  C6  G   A 266     124.276  60.876 -36.895  1.00 53.87      A16S
ATOM   5505  O6  G   A 266     123.724  60.983 -37.974  1.00 53.87      A16S
ATOM   5506  C5  G   A 266     124.391  61.829 -35.875  1.00 53.87      A16S
ATOM   5507  N7  G   A 266     123.914  63.127 -35.810  1.00 53.87      A16S
ATOM   5508  C8  G   A 266     124.301  63.545 -34.637  1.00 53.87      A16S
ATOM   5509  C2* G   A 266     125.933  64.042 -31.995  1.00 37.50      A16S
ATOM   5510  O2* G   A 266     126.996  63.805 -31.099  1.00 37.50      A16S
ATOM   5511  C3* G   A 266     124.614  64.535 -31.383  1.00 37.50      A16S
ATOM   5512  O3* G   A 266     124.482  65.406 -30.245  1.00 37.50      A16S
ATOM   5513  P   C   A 267     125.458  65.302 -28.951  1.00 32.44      A16S
ATOM   5514  O1P C   A 267     124.966  66.358 -28.027  1.00 47.17      A16S
ATOM   5515  O2P C   A 267     126.899  65.265 -29.292  1.00 47.17      A16S
ATOM   5516  O5* C   A 267     125.129  63.949 -28.190  1.00 32.44      A16S
ATOM   5517  C5* C   A 267     125.791  63.715 -26.938  1.00 32.44      A16S
ATOM   5518  C4* C   A 267     125.418  62.385 -26.359  1.00 32.44      A16S
ATOM   5519  O4* C   A 267     124.051  62.401 -25.895  1.00 32.44      A16S
ATOM   5520  C1* C   A 267     123.503  61.109 -26.030  1.00 32.44      A16S
ATOM   5521  N1  C   A 267     122.341  61.196 -26.917  1.00 47.17      A16S
ATOM   5522  C6  C   A 267     122.189  62.248 -27.770  1.00 47.17      A16S
ATOM   5523  C2  C   A 267     121.406  60.178 -26.889  1.00 47.17      A16S
ATOM   5524  O2  C   A 267     121.549  59.257 -26.078  1.00 47.17      A16S
ATOM   5525  N3  C   A 267     120.364  60.218 -27.735  1.00 47.17      A16S
ATOM   5526  C4  C   A 267     120.233  61.237 -28.577  1.00 47.17      A16S
ATOM   5527  N4  C   A 267     119.202  61.227 -29.409  1.00 47.17      A16S
ATOM   5528  C5  C   A 267     121.157  62.309 -28.607  1.00 47.17      A16S
ATOM   5529  C2* C   A 267     124.590  60.188 -26.597  1.00 32.44      A16S
ATOM   5530  O2* C   A 267     125.231  59.504 -25.535  1.00 32.44      A16S
ATOM   5531  C3* C   A 267     125.522  61.182 -27.275  1.00 32.44      A16S
ATOM   5532  O3* C   A 267     126.862  60.700 -27.321  1.00 32.44      A16S
ATOM   5533  P   C   A 268     127.454  60.114 -28.696  1.00 57.17      A16S
ATOM   5534  O1P C   A 268     128.852  59.723 -28.408  1.00 44.19      A16S
ATOM   5535  O2P C   A 268     127.177  61.055 -29.809  1.00 44.19      A16S
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ATOM   5536  O5* C   A 268     126.618  58.781 -28.916  1.00 57.17      A16S
ATOM   5537  C5* C   A 268     126.859  57.639 -28.079  1.00 57.17      A16S
ATOM   5538  C4* C   A 268     125.988  56.493 -28.498  1.00 57.17      A16S
ATOM   5539  O4* C   A 268     124.612  56.843 -28.234  1.00 57.17      A16S
ATOM   5540  C1* C   A 268     123.791  56.316 -29.255  1.00 57.17      A16S
ATOM   5541  N1  C   A 268     123.129  57.426 -29.942  1.00 44.19      A16S
ATOM   5542  C6  C   A 268     123.451  58.727 -29.677  1.00 44.19      A16S
ATOM   5543  C2  C   A 268     122.159  57.122 -30.875  1.00 44.19      A16S
ATOM   5544  O2  C   A 268     121.919  55.931 -31.107  1.00 44.19      A16S
ATOM   5545  N3  C   A 268     121.512  58.121 -31.511  1.00 44.19      A16S
ATOM   5546  C4  C   A 268     121.824  59.388 -31.247  1.00 44.19      A16S
ATOM   5547  N4  C   A 268     121.164  60.342 -31.905  1.00 44.19      A16S
ATOM   5548  C5  C   A 268     122.828  59.730 -30.300  1.00 44.19      A16S
ATOM   5549  C2* C   A 268     124.670  55.521 -30.217  1.00 57.17      A16S
ATOM   5550  O2* C   A 268     124.611  54.149 -29.888  1.00 57.17      A16S
ATOM   5551  C3* C   A 268     126.030  56.156 -29.979  1.00 57.17      A16S
ATOM   5552  O3* C   A 268     127.086  55.271 -30.293  1.00 57.17      A16S
ATOM   5553  P   C   A 269     127.570  55.126 -31.817  1.00 66.89      A16S
ATOM   5554  O1P C   A 269     128.622  54.076 -31.757  1.00 42.64      A16S
ATOM   5555  O2P C   A 269     127.891  56.464 -32.397  1.00 42.64      A16S
ATOM   5556  O5* C   A 269     126.299  54.550 -32.589  1.00 66.89      A16S
ATOM   5557  C5* C   A 269     125.907  53.177 -32.432  1.00 66.89      A16S
ATOM   5558  C4* C   A 269     124.797  52.826 -33.389  1.00 66.89      A16S
ATOM   5559  O4* C   A 269     123.611  53.583 -33.053  1.00 66.89      A16S
ATOM   5560  C1* C   A 269     122.838  53.784 -34.224  1.00 66.89      A16S
ATOM   5561  N1  C   A 269     122.584  55.217 -34.411  1.00 42.64      A16S
ATOM   5562  C6  C   A 269     123.396  56.161 -33.855  1.00 42.64      A16S
ATOM   5563  C2  C   A 269     121.490  55.600 -35.203  1.00 42.64      A16S
ATOM   5564  O2  C   A 269     120.756  54.722 -35.680  1.00 42.64      A16S
ATOM   5565  N3  C   A 269     121.264  56.907 -35.431  1.00 42.64      A16S
ATOM   5566  C4  C   A 269     122.074  57.821 -34.903  1.00 42.64      A16S
ATOM   5567  N4  C   A 269     121.825  59.104 -35.173  1.00 42.64      A16S
ATOM   5568  C5  C   A 269     123.183  57.460 -34.074  1.00 42.64      A16S
ATOM   5569  C2* C   A 269     123.607  53.208 -35.413  1.00 66.89      A16S
ATOM   5570  O2* C   A 269     123.067  51.959 -35.796  1.00 66.89      A16S
ATOM   5571  C3* C   A 269     125.024  53.130 -34.863  1.00 66.89      A16S
ATOM   5572  O3* C   A 269     125.767  52.127 -35.541  1.00 66.89      A16S
ATOM   5573  P   A   A 270     126.545  52.500 -36.897  1.00 61.91      A16S
ATOM   5574  O1P A   A 270     127.518  51.404 -37.140  1.00 77.88      A16S
ATOM   5575  O2P A   A 270     127.028  53.904 -36.794  1.00 77.88      A16S
ATOM   5576  O5* A   A 270     125.423  52.453 -38.028  1.00 61.91      A16S
ATOM   5577  C5* A   A 270     124.992  51.200 -38.583  1.00 61.91      A16S
ATOM   5578  C4* A   A 270     123.858  51.418 -39.551  1.00 61.91      A16S
ATOM   5579  O4* A   A 270     122.761  52.056 -38.857  1.00 61.91      A16S
ATOM   5580  C1* A   A 270     122.112  52.972 -39.719  1.00 61.91      A16S
ATOM   5581  N9  A   A 270     122.241  54.310 -39.139  1.00 77.88      A16S
ATOM   5582  C4  A   A 270     121.447  55.399 -39.404  1.00 77.88      A16S
ATOM   5583  N3  A   A 270     120.404  55.464 -40.247  1.00 77.88      A16S
ATOM   5584  C2  A   A 270     119.873  56.682 -40.241  1.00 77.88      A16S
ATOM   5585  N1  A   A 270     120.237  57.760 -39.543  1.00 77.88      A16S
ATOM   5586  C6  A   A 270     121.291  57.660 -38.708  1.00 77.88      A16S
ATOM   5587  N6  A   A 270     121.660  58.736 -38.014  1.00 77.88      A16S
ATOM   5588  C5  A   A 270     121.940  56.424 -38.622  1.00 77.88      A16S
ATOM   5589  N7  A   A 270     123.031  55.996 -37.882  1.00 77.88      A16S
ATOM   5590  C8  A   A 270     123.169  54.741 -38.224  1.00 77.88      A16S
ATOM   5591  C2* A   A 270     122.776  52.863 -41.089  1.00 61.91      A16S
ATOM   5592  O2* A   A 270     122.040  51.965 -41.897  1.00 61.91      A16S
ATOM   5593  C3* A   A 270     124.156  52.339 -40.717  1.00 61.91      A16S
ATOM   5594  O3* A   A 270     124.762  51.641 -41.791  1.00 61.91      A16S
ATOM   5595  P   C   A 271     125.617  52.454 -42.881  1.00 70.36      A16S
ATOM   5596  O1P C   A 271     126.151  51.463 -43.859  1.00 83.28      A16S
ATOM   5597  O2P C   A 271     126.556  53.325 -42.133  1.00 83.28      A16S
ATOM   5598  O5* C   A 271     124.553  53.389 -43.616  1.00 70.36      A16S
ATOM   5599  C5* C   A 271     123.665  52.852 -44.601  1.00 70.36      A16S
ATOM   5600  C4* C   A 271     122.720  53.917 -45.094  1.00 70.36      A16S
ATOM   5601  O4* C   A 271     121.916  54.389 -43.983  1.00 70.36      A16S
ATOM   5602  C1* C   A 271     121.616  55.767 -44.157  1.00 70.36      A16S
ATOM   5603  N1  C   A 271     122.235  56.539 -43.063  1.00 83.28      A16S
ATOM   5604  C6  C   A 271     123.278  56.029 -42.337  1.00 83.28      A16S
ATOM   5605  C2  C   A 271     121.755  57.830 -42.798  1.00 83.28      A16S
ATOM   5606  O2  C   A 271     120.782  58.260 -43.450  1.00 83.28      A16S
ATOM   5607  N3  C   A 271     122.359  58.572 -41.842  1.00 83.28      A16S
ATOM   5608  C4  C   A 271     123.389  58.070 -41.157  1.00 83.28      A16S
ATOM   5609  N4  C   A 271     123.963  58.842 -40.236  1.00 83.28      A16S
ATOM   5610  C5  C   A 271     123.879  56.754 -41.388  1.00 83.28      A16S
ATOM   5611  C2* C   A 271     122.227  56.201 -45.484  1.00 70.36      A16S
ATOM   5612  O2* C   A 271     121.259  56.137 -46.508  1.00 70.36      A16S
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ATOM   5613  C3* C   A 271     123.346  55.186 -45.643  1.00 70.36      A16S
ATOM   5614  O3* C   A 271     123.777  55.108 -46.982  1.00 70.36      A16S
ATOM   5615  P   C   A 272     124.954  56.080 -47.467  1.00 73.91      A16S
ATOM   5616  O1P C   A 272     125.309  55.727 -48.866  1.00 67.27      A16S
ATOM   5617  O2P C   A 272     126.001  56.063 -46.410  1.00 67.27      A16S
ATOM   5618  O5* C   A 272     124.287  57.526 -47.467  1.00 73.91      A16S
ATOM   5619  C5* C   A 272     123.239  57.848 -48.388  1.00 73.91      A16S
ATOM   5620  C4* C   A 272     122.812  59.289 -48.224  1.00 73.91      A16S
ATOM   5621  O4* C   A 272     122.268  59.489 -46.892  1.00 73.91      A16S
ATOM   5622  C1* C   A 272     122.517  60.823 -46.469  1.00 73.91      A16S
ATOM   5623  N1  C   A 272     123.357  60.810 -45.254  1.00 67.27      A16S
ATOM   5624  C6  C   A 272     123.992  59.674 -44.837  1.00 67.27      A16S
ATOM   5625  C2  C   A 272     123.520  62.009 -44.543  1.00 67.27      A16S
ATOM   5626  O2  C   A 272     122.892  63.012 -44.907  1.00 67.27      A16S
ATOM   5627  N3  C   A 272     124.349  62.041 -43.477  1.00 67.27      A16S
ATOM   5628  C4  C   A 272     124.988  60.934 -43.099  1.00 67.27      A16S
ATOM   5629  N4  C   A 272     125.818  61.019 -42.057  1.00 67.27      A16S
ATOM   5630  C5  C   A 272     124.809  59.691 -43.775  1.00 67.27      A16S
ATOM   5631  C2* C   A 272     123.256  61.533 -47.600  1.00 73.91      A16S
ATOM   5632  O2* C   A 272     122.340  62.267 -48.388  1.00 73.91      A16S
ATOM   5633  C3* C   A 272     123.889  60.359 -48.334  1.00 73.91      A16S
ATOM   5634  O3* C   A 272     124.239  60.704 -49.666  1.00 73.91      A16S
ATOM   5635  P   A   A 273     125.692  61.328 -49.960  1.00 95.30      A16S
ATOM   5636  O1P A   A 273     125.851  61.454 -51.432  1.00 45.48      A16S
ATOM   5637  O2P A   A 273     126.687  60.536 -49.178  1.00 45.48      A16S
ATOM   5638  O5* A   A 273     125.600  62.806 -49.368  1.00 95.30      A16S
ATOM   5639  C5* A   A 273     124.709  63.774 -49.957  1.00 95.30      A16S
ATOM   5640  C4* A   A 273     124.779  65.084 -49.209  1.00 95.30      A16S
ATOM   5641  O4* A   A 273     124.371  64.875 -47.837  1.00 95.30      A16S
ATOM   5642  C1* A   A 273     125.122  65.714 -46.979  1.00 95.30      A16S
ATOM   5643  N9  A   A 273     125.900  64.865 -46.083  1.00 45.48      A16S
ATOM   5644  C4  A   A 273     126.455  65.236 -44.882  1.00 45.48      A16S
ATOM   5645  N3  A   A 273     126.412  66.446 -44.301  1.00 45.48      A16S
ATOM   5646  C2  A   A 273     127.051  66.428 -43.134  1.00 45.48      A16S
ATOM   5647  N1  A   A 273     127.672  65.415 -42.524  1.00 45.48      A16S
ATOM   5648  C6  A   A 273     127.689  64.209 -43.129  1.00 45.48      A16S
ATOM   5649  N6  A   A 273     128.291  63.188 -42.510  1.00 45.48      A16S
ATOM   5650  C5  A   A 273     127.061  64.099 -44.381  1.00 45.48      A16S
ATOM   5651  N7  A   A 273     126.908  63.035 -45.257  1.00 45.48      A16S
ATOM   5652  C8  A   A 273     126.218  63.543 -46.249  1.00 45.48      A16S
ATOM   5653  C2* A   A 273     126.016  66.586 -47.850  1.00 95.30      A16S
ATOM   5654  O2* A   A 273     125.349  67.810 -48.084  1.00 95.30      A16S
ATOM   5655  C3* A   A 273     126.152  65.724 -49.098  1.00 95.30      A16S
ATOM   5656  O3* A   A 273     126.469  66.494 -50.243  1.00 95.30      A16S
ATOM   5657  P   A   A 274     128.002  66.626 -50.706  1.00 56.37      A16S
ATOM   5658  O1P A   A 274     128.003  67.512 -51.906  1.00 39.87      A16S
ATOM   5659  O2P A   A 274     128.624  65.266 -50.774  1.00 39.87      A16S
ATOM   5660  O5* A   A 274     128.707  67.408 -49.514  1.00 56.37      A16S
ATOM   5661  C5* A   A 274     128.229  68.693 -49.093  1.00 56.37      A16S
ATOM   5662  C4* A   A 274     129.096  69.213 -47.988  1.00 56.37      A16S
ATOM   5663  O4* A   A 274     129.005  68.312 -46.858  1.00 56.37      A16S
ATOM   5664  C1* A   A 274     130.294  67.913 -46.488  1.00 56.37      A16S
ATOM   5665  N9  A   A 274     130.249  66.563 -45.942  1.00 39.87      A16S
ATOM   5666  C4  A   A 274     130.588  66.244 -44.653  1.00 39.87      A16S
ATOM   5667  N3  A   A 274     130.932  67.093 -43.672  1.00 39.87      A16S
ATOM   5668  C2  A   A 274     131.233  66.426 -42.567  1.00 39.87      A16S
ATOM   5669  N1  A   A 274     131.240  65.109 -42.349  1.00 39.87      A16S
ATOM   5670  C6  A   A 274     130.898  64.287 -43.356  1.00 39.87      A16S
ATOM   5671  N6  A   A 274     130.937  62.977 -43.145  1.00 39.87      A16S
ATOM   5672  C5  A   A 274     130.535  64.868 -44.577  1.00 39.87      A16S
ATOM   5673  N7  A   A 274     130.113  64.325 -45.783  1.00 39.87      A16S
ATOM   5674  C8  A   A 274     129.945  65.374 -46.555  1.00 39.87      A16S
ATOM   5675  C2* A   A 274     131.149  68.044 -47.741  1.00 56.37      A16S
ATOM   5676  O2* A   A 274     132.507  68.204 -47.404  1.00 56.37      A16S
ATOM   5677  C3* A   A 274     130.572  69.304 -48.354  1.00 56.37      A16S
ATOM   5678  O3* A   A 274     131.167  70.405 -47.686  1.00 56.37      A16S
ATOM   5679  P   G   A 275     130.629  71.888 -47.971  1.00 30.39      A16S
ATOM   5680  O1P G   A 275     129.887  71.840 -49.262  1.00 42.71      A16S
ATOM   5681  O2P G   A 275     131.757  72.854 -47.798  1.00 42.71      A16S
ATOM   5682  O5* G   A 275     129.557  72.123 -46.820  1.00 30.39      A16S
ATOM   5683  C5* G   A 275     129.936  72.769 -45.606  1.00 30.39      A16S
ATOM   5684  C4* G   A 275     129.371  72.044 -44.417  1.00 30.39      A16S
ATOM   5685  O4* G   A 275     129.855  70.678 -44.370  1.00 30.39      A16S
ATOM   5686  C1* G   A 275     130.223  70.337 -43.047  1.00 30.39      A16S
ATOM   5687  N9  G   A 275     131.671  70.129 -43.047  1.00 42.71      A16S
ATOM   5688  C4  G   A 275     132.488  69.855 -41.968  1.00 42.71      A16S
ATOM   5689  N3  G   A 275     132.095  69.690 -40.691  1.00 42.71      A16S
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ATOM   5690  C2  G   A 275     133.120  69.476 -39.889  1.00 42.71      A16S
ATOM   5691  N2  G   A 275     132.918  69.306 -38.589  1.00 42.71      A16S
ATOM   5692  N1  G   A 275     134.420  69.417 -40.304  1.00 42.71      A16S
ATOM   5693  C6  G   A 275     134.846  69.574 -41.613  1.00 42.71      A16S
ATOM   5694  O6  G   A 275     136.045  69.496 -41.885  1.00 42.71      A16S
ATOM   5695  C5  G   A 275     133.768  69.814 -42.481  1.00 42.71      A16S
ATOM   5696  N7  G   A 275     133.759  70.029 -43.849  1.00 42.71      A16S
ATOM   5697  C8  G   A 275     132.499  70.204 -44.141  1.00 42.71      A16S
ATOM   5698  C2* G   A 275     129.792  71.505 -42.153  1.00 30.39      A16S
ATOM   5699  O2* G   A 275     128.493  71.266 -41.659  1.00 30.39      A16S
ATOM   5700  C3* G   A 275     129.847  72.667 -43.130  1.00 30.39      A16S
ATOM   5701  O3* G   A 275     129.037  73.784 -42.817  1.00 30.39      A16S
ATOM   5702  P   G   A 276     129.733  75.131 -42.301  1.00 35.03      A16S
ATOM   5703  O1P G   A 276     128.730  76.218 -42.165  1.00 41.13      A16S
ATOM   5704  O2P G   A 276     130.938  75.356 -43.131  1.00 41.13      A16S
ATOM   5705  O5* G   A 276     130.199  74.708 -40.842  1.00 35.03      A16S
ATOM   5706  C5* G   A 276     129.226  74.247 -39.895  1.00 35.03      A16S
ATOM   5707  C4* G   A 276     129.887  73.876 -38.608  1.00 35.03      A16S
ATOM   5708  O4* G   A 276     130.614  72.644 -38.780  1.00 35.03      A16S
ATOM   5709  C1* G   A 276     131.817  72.701 -38.044  1.00 35.03      A16S
ATOM   5710  N9  G   A 276     132.913  72.711 -38.999  1.00 41.13      A16S
ATOM   5711  C4  G   A 276     134.243  72.565 -38.721  1.00 41.13      A16S
ATOM   5712  N3  G   A 276     134.774  72.372 -37.508  1.00 41.13      A16S
ATOM   5713  C2  G   A 276     136.090  72.311 -37.552  1.00 41.13      A16S
ATOM   5714  N2  G   A 276     136.784  72.148 -36.429  1.00 41.13      A16S
ATOM   5715  N1  G   A 276     136.828  72.413 -38.699  1.00 41.13      A16S
ATOM   5716  C6  G   A 276     136.301  72.608 -39.967  1.00 41.13      A16S
ATOM   5717  O6  G   A 276     137.061  72.693 -40.952  1.00 41.13      A16S
ATOM   5718  C5  G   A 276     134.885  72.689 -39.931  1.00 41.13      A16S
ATOM   5719  N7  G   A 276     133.972  72.895 -40.954  1.00 41.13      A16S
ATOM   5720  C8  G   A 276     132.816  72.897 -40.355  1.00 41.13      A16S
ATOM   5721  C2* G   A 276     131.805  74.005 -37.249  1.00 35.03      A16S
ATOM   5722  O2* G   A 276     131.256  73.765 -35.969  1.00 35.03      A16S
ATOM   5723  C3* G   A 276     130.909  74.875 -38.110  1.00 35.03      A16S
ATOM   5724  O3* G   A 276     130.297  75.921 -37.374  1.00 35.03      A16S
ATOM   5725  P   C   A 277     130.983  77.370 -37.333  1.00 32.66      A16S
ATOM   5726  O1P C   A 277     130.173  78.234 -36.429  1.00 26.33      A16S
ATOM   5727  O2P C   A 277     131.229  77.803 -38.745  1.00 26.33      A16S
ATOM   5728  O5* C   A 277     132.359  77.085 -36.591  1.00 32.66      A16S
ATOM   5729  C5* C   A 277     132.339  76.591 -35.254  1.00 32.66      A16S
ATOM   5730  C4* C   A 277     133.715  76.604 -34.656  1.00 32.66      A16S
ATOM   5731  O4* C   A 277     134.478  75.450 -35.084  1.00 32.66      A16S
ATOM   5732  C1* C   A 277     135.853  75.786 -35.124  1.00 32.66      A16S
ATOM   5733  N1  C   A 277     136.324  75.669 -36.509  1.00 26.33      A16S
ATOM   5734  C6  C   A 277     135.448  75.706 -37.553  1.00 26.33      A16S
ATOM   5735  C2  C   A 277     137.687  75.551 -36.742  1.00 26.33      A16S
ATOM   5736  O2  C   A 277     138.457  75.479 -35.768  1.00 26.33      A16S
ATOM   5737  N3  C   A 277     138.135  75.514 -38.019  1.00 26.33      A16S
ATOM   5738  C4  C   A 277     137.269  75.577 -39.031  1.00 26.33      A16S
ATOM   5739  N4  C   A 277     137.745  75.561 -40.274  1.00 26.33      A16S
ATOM   5740  C5  C   A 277     135.875  75.663 -38.816  1.00 26.33      A16S
ATOM   5741  C2* C   A 277     135.981  77.236 -34.659  1.00 32.66      A16S
ATOM   5742  O2* C   A 277     136.245  77.275 -33.267  1.00 32.66      A16S
ATOM   5743  C3* C   A 277     134.603  77.782 -34.992  1.00 32.66      A16S
ATOM   5744  O3* C   A 277     134.303  78.934 -34.241  1.00 32.66      A16S
ATOM   5745  P   G   A 278     134.616  80.371 -34.867  1.00 31.82      A16S
ATOM   5746  O1P G   A 278     134.055  81.384 -33.948  1.00 53.46      A16S
ATOM   5747  O2P G   A 278     134.207  80.365 -36.287  1.00 53.46      A16S
ATOM   5748  O5* G   A 278     136.200  80.464 -34.820  1.00 31.82      A16S
ATOM   5749  C5* G   A 278     136.909  80.267 -33.588  1.00 31.82      A16S
ATOM   5750  C4* G   A 278     138.401  80.273 -33.835  1.00 31.82      A16S
ATOM   5751  O4* G   A 278     138.785  79.150 -34.673  1.00 31.82      A16S
ATOM   5752  C1* G   A 278     139.867  79.520 -35.507  1.00 31.82      A16S
ATOM   5753  N9  G   A 278     139.499  79.297 -36.904  1.00 53.46      A16S
ATOM   5754  C4  G   A 278     140.361  79.214 -37.974  1.00 53.46      A16S
ATOM   5755  N3  G   A 278     141.703  79.335 -37.923  1.00 53.46      A16S
ATOM   5756  C2  G   A 278     142.252  79.211 -39.117  1.00 53.46      A16S
ATOM   5757  N2  G   A 278     143.578  79.317 -39.263  1.00 53.46      A16S
ATOM   5758  N1  G   A 278     141.542  78.976 -40.261  1.00 53.46      A16S
ATOM   5759  C6  G   A 278     140.165  78.840 -40.333  1.00 53.46      A16S
ATOM   5760  O6  G   A 278     139.630  78.610 -41.418  1.00 53.46      A16S
ATOM   5761  C5  G   A 278     139.563  78.986 -39.069  1.00 53.46      A16S
ATOM   5762  N7  G   A 278     138.229  78.936 -38.705  1.00 53.46      A16S
ATOM   5763  C8  G   A 278     138.237  79.124 -37.414  1.00 53.46      A16S
ATOM   5764  C2* G   A 278     140.224  80.966 -35.176  1.00 31.82      A16S
ATOM   5765  O2* G   A 278     141.274  80.910 -34.238  1.00 31.82      A16S
ATOM   5766  C3* G   A 278     138.921  81.482 -34.575  1.00 31.82      A16S
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ATOM   5767  O3*  G   A 278     139.098  82.559 -33.677  1.00 31.82      A16S
ATOM   5768  P    A   A 279     138.890  84.060 -34.195  1.00 28.47      A16S
ATOM   5769  O1P  A   A 279     138.049  84.751 -33.205  1.00 43.68      A16S
ATOM   5770  O2P  A   A 279     138.424  83.966 -35.587  1.00 43.68      A16S
ATOM   5771  O5*  A   A 279     140.374  84.666 -34.197  1.00 28.47      A16S
ATOM   5772  C5*  A   A 279     140.873  85.502 -33.106  1.00 28.47      A16S
ATOM   5773  C4*  A   A 279     142.131  86.253 -33.535  1.00 28.47      A16S
ATOM   5774  O4*  A   A 279     143.208  85.301 -33.671  1.00 28.47      A16S
ATOM   5775  C1*  A   A 279     144.037  85.671 -34.750  1.00 28.47      A16S
ATOM   5776  N9   A   A 279     144.253  84.502 -35.589  1.00 43.68      A16S
ATOM   5777  C4   A   A 279     145.462  83.910 -35.761  1.00 43.68      A16S
ATOM   5778  N3   A   A 279     146.621  84.313 -35.239  1.00 43.68      A16S
ATOM   5779  C2   A   A 279     147.580  83.468 -35.568  1.00 43.68      A16S
ATOM   5780  N1   A   A 279     147.507  82.346 -36.302  1.00 43.68      A16S
ATOM   5781  C6   A   A 279     146.310  81.983 -36.810  1.00 43.68      A16S
ATOM   5782  N6   A   A 279     146.223  80.863 -37.525  1.00 43.68      A16S
ATOM   5783  C5   A   A 279     145.231  82.795 -36.545  1.00 43.68      A16S
ATOM   5784  N7   A   A 279     143.900  82.705 -36.903  1.00 43.68      A16S
ATOM   5785  C8   A   A 279     143.359  83.746 -36.319  1.00 43.68      A16S
ATOM   5786  C2*  A   A 279     143.445  86.887 -35.455  1.00 28.47      A16S
ATOM   5787  O2*  A   A 279     144.262  87.982 -35.153  1.00 28.47      A16S
ATOM   5788  C3*  A   A 279     142.027  86.965 -34.886  1.00 28.47      A16S
ATOM   5789  O3*  A   A 279     141.604  88.365 -34.849  1.00 28.47      A16S
ATOM   5790  P    C   A 280     141.717  89.262 -33.487  1.00 28.59      A16S
ATOM   5791  O1P  C   A 280     141.307  90.640 -33.860  1.00 58.42      A16S
ATOM   5792  O2P  C   A 280     143.032  89.050 -32.828  1.00 58.42      A16S
ATOM   5793  O5*  C   A 280     140.603  88.682 -32.513  1.00 28.59      A16S
ATOM   5794  C5*  C   A 280     140.724  88.878 -31.093  1.00 28.59      A16S
ATOM   5795  C4*  C   A 280     139.453  88.479 -30.383  1.00 28.59      A16S
ATOM   5796  O4*  C   A 280     138.368  89.348 -30.788  1.00 28.59      A16S
ATOM   5797  C1*  C   A 280     137.279  88.573 -31.194  1.00 28.59      A16S
ATOM   5798  N1   C   A 280     136.590  89.262 -32.287  1.00 58.42      A16S
ATOM   5799  C6   C   A 280     137.285  89.959 -33.232  1.00 58.42      A16S
ATOM   5800  C2   C   A 280     135.194  89.173 -32.359  1.00 58.42      A16S
ATOM   5801  O2   C   A 280     134.577  88.550 -31.471  1.00 58.42      A16S
ATOM   5802  N3   C   A 280     134.550  89.758 -33.391  1.00 58.42      A16S
ATOM   5803  C4   C   A 280     135.240  90.409 -34.325  1.00 58.42      A16S
ATOM   5804  N4   C   A 280     134.563  90.935 -35.343  1.00 58.42      A16S
ATOM   5805  C5   C   A 280     136.656  90.540 -34.260  1.00 58.42      A16S
ATOM   5806  C2*  C   A 280     137.848  87.215 -31.597  1.00 28.59      A16S
ATOM   5807  O2*  C   A 280     136.854  86.206 -31.455  1.00 28.59      A16S
ATOM   5808  C3*  C   A 280     138.982  87.053 -30.599  1.00 28.59      A16S
ATOM   5809  O3*  C   A 280     138.428  86.590 -29.387  1.00 28.59      A16S
ATOM   5810  P    G   A 281     139.289  85.643 -28.427  1.00 41.04      A16S
ATOM   5811  O1P  G   A 281     138.335  84.825 -27.621  1.00 44.16      A16S
ATOM   5812  O2P  G   A 281     140.294  86.504 -27.729  1.00 44.16      A16S
ATOM   5813  O5*  G   A 281     140.041  84.679 -29.446  1.00 41.04      A16S
ATOM   5814  C5*  G   A 281     139.549  83.359 -29.728  1.00 41.04      A16S
ATOM   5815  C4*  G   A 281     140.709  82.424 -29.900  1.00 41.04      A16S
ATOM   5816  O4*  G   A 281     141.563  83.030 -30.892  1.00 41.04      A16S
ATOM   5817  C1*  G   A 281     142.909  82.870 -30.521  1.00 41.04      A16S
ATOM   5818  N9   G   A 281     143.512  84.189 -30.419  1.00 44.16      A16S
ATOM   5819  C4   G   A 281     144.754  84.552 -30.862  1.00 44.16      A16S
ATOM   5820  N3   G   A 281     145.640  83.749 -31.472  1.00 44.16      A16S
ATOM   5821  C2   G   A 281     146.755  84.382 -31.759  1.00 44.16      A16S
ATOM   5822  N2   G   A 281     147.756  83.735 -32.351  1.00 44.16      A16S
ATOM   5823  N1   G   A 281     146.979  85.695 -31.484  1.00 44.16      A16S
ATOM   5824  C6   G   A 281     146.074  86.542 -30.867  1.00 44.16      A16S
ATOM   5825  O6   G   A 281     146.372  87.718 -30.670  1.00 44.16      A16S
ATOM   5826  C5   G   A 281     144.881  85.879 -30.545  1.00 44.16      A16S
ATOM   5827  N7   G   A 281     143.737  86.350 -29.925  1.00 44.16      A16S
ATOM   5828  C8   G   A 281     142.953  85.311 -29.871  1.00 44.16      A16S
ATOM   5829  C2*  G   A 281     142.967  82.024 -29.251  1.00 41.04      A16S
ATOM   5830  O2*  G   A 281     143.144  80.696 -29.675  1.00 41.04      A16S
ATOM   5831  C3*  G   A 281     141.585  82.251 -28.664  1.00 41.04      A16S
ATOM   5832  O3*  G   A 281     141.022  81.237 -27.793  1.00 41.04      A16S
ATOM   5833  P    A   A 282     141.729  79.787 -27.583  1.00 24.15      A16S
ATOM   5834  O1P  A   A 282     141.086  79.188 -26.384  1.00 46.07      A16S
ATOM   5835  O2P  A   A 282     143.206  79.886 -27.606  1.00 46.07      A16S
ATOM   5836  O5*  A   A 282     141.196  78.936 -28.822  1.00 24.15      A16S
ATOM   5837  C5*  A   A 282     139.776  78.702 -28.978  1.00 24.15      A16S
ATOM   5838  C4*  A   A 282     139.494  77.880 -30.214  1.00 24.15      A16S
ATOM   5839  O4*  A   A 282     140.102  78.534 -31.350  1.00 24.15      A16S
ATOM   5840  C1*  A   A 282     140.658  77.572 -32.220  1.00 24.15      A16S
ATOM   5841  N9   A   A 282     142.111  77.755 -32.215  1.00 46.07      A16S
ATOM   5842  C4   A   A 282     143.045  76.947 -32.812  1.00 46.07      A16S
ATOM   5843  N3   A   A 282     142.822  75.837 -33.528  1.00 46.07      A16S
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ATOM   5844  C2  A   A 282     143.965  75.313 -33.943  1.00 46.07      A16S
ATOM   5845  N1  A   A 282     145.210  75.738 -33.741  1.00 46.07      A16S
ATOM   5846  C6  A   A 282     145.400  76.859 -33.019  1.00 46.07      A16S
ATOM   5847  N6  A   A 282     146.644  77.286 -32.822  1.00 46.07      A16S
ATOM   5848  C5  A   A 282     144.269  77.509 -32.520  1.00 46.07      A16S
ATOM   5849  N7  A   A 282     144.115  78.656 -31.758  1.00 46.07      A16S
ATOM   5850  C8  A   A 282     142.822  78.758 -31.608  1.00 46.07      A16S
ATOM   5851  C2* A   A 282     140.222  76.201 -31.714  1.00 24.15      A16S
ATOM   5852  O2* A   A 282     139.020  75.872 -32.375  1.00 24.15      A16S
ATOM   5853  C3* A   A 282     140.039  76.464 -30.224  1.00 24.15      A16S
ATOM   5854  O3* A   A 282     139.094  75.561 -29.648  1.00 24.15      A16S
ATOM   5855  P   C   A 283     139.568  74.469 -28.560  1.00 36.52      A16S
ATOM   5856  O1P C   A 283     138.497  73.453 -28.503  1.00 57.57      A16S
ATOM   5857  O2P C   A 283     140.007  75.144 -27.300  1.00 57.57      A16S
ATOM   5858  O5* C   A 283     140.837  73.772 -29.217  1.00 36.52      A16S
ATOM   5859  C5* C   A 283     140.703  72.755 -30.221  1.00 36.52      A16S
ATOM   5860  C4* C   A 283     142.074  72.286 -30.655  1.00 36.52      A16S
ATOM   5861  O4* C   A 283     142.747  73.342 -31.389  1.00 36.52      A16S
ATOM   5862  C1* C   A 283     144.108  73.397 -31.026  1.00 36.52      A16S
ATOM   5863  N1  C   A 283     144.316  74.666 -30.314  1.00 57.57      A16S
ATOM   5864  C6  C   A 283     143.256  75.465 -29.997  1.00 57.57      A16S
ATOM   5865  C2  C   A 283     145.602  75.027 -29.928  1.00 57.57      A16S
ATOM   5866  O2  C   A 283     146.553  74.325 -30.274  1.00 57.57      A16S
ATOM   5867  N3  C   A 283     145.781  76.134 -29.185  1.00 57.57      A16S
ATOM   5868  C4  C   A 283     144.735  76.882 -28.843  1.00 57.57      A16S
ATOM   5869  N4  C   A 283     144.954  77.945 -28.067  1.00 57.57      A16S
ATOM   5870  C5  C   A 283     143.417  76.568 -29.268  1.00 57.57      A16S
ATOM   5871  C2* C   A 283     144.375  72.189 -30.123  1.00 36.52      A16S
ATOM   5872  O2* C   A 283     144.756  71.075 -30.896  1.00 36.52      A16S
ATOM   5873  C3* C   A 283     143.008  71.958 -29.509  1.00 36.52      A16S
ATOM   5874  O3* C   A 283     142.827  70.627 -29.063  1.00 36.52      A16S
ATOM   5875  P   G   A 284     142.992  70.285 -27.501  1.00 26.18      A16S
ATOM   5876  O1P G   A 284     142.638  68.849 -27.341  1.00 47.41      A16S
ATOM   5877  O2P G   A 284     142.270  71.312 -26.704  1.00 47.41      A16S
ATOM   5878  O5* G   A 284     144.556  70.440 -27.245  1.00 26.18      A16S
ATOM   5879  C5* G   A 284     145.500  69.711 -28.048  1.00 26.18      A16S
ATOM   5880  C4* G   A 284     146.902  70.220 -27.815  1.00 26.18      A16S
ATOM   5881  O4* G   A 284     147.040  71.555 -28.358  1.00 26.18      A16S
ATOM   5882  C1* G   A 284     147.941  72.297 -27.551  1.00 26.18      A16S
ATOM   5883  N9  G   A 284     147.256  73.484 -27.046  1.00 47.41      A16S
ATOM   5884  C4  G   A 284     147.844  74.581 -26.464  1.00 47.41      A16S
ATOM   5885  N3  G   A 284     149.162  74.752 -26.242  1.00 47.41      A16S
ATOM   5886  C2  G   A 284     149.421  75.914 -25.663  1.00 47.41      A16S
ATOM   5887  N2  G   A 284     150.675  76.249 -25.374  1.00 47.41      A16S
ATOM   5888  N1  G   A 284     148.470  76.833 -25.328  1.00 47.41      A16S
ATOM   5889  C6  G   A 284     147.107  76.682 -25.547  1.00 47.41      A16S
ATOM   5890  O6  G   A 284     146.326  77.583 -25.211  1.00 47.41      A16S
ATOM   5891  C5  G   A 284     146.810  75.435 -26.167  1.00 47.41      A16S
ATOM   5892  N7  G   A 284     145.595  74.886 -26.544  1.00 47.41      A16S
ATOM   5893  C8  G   A 284     145.910  73.731 -27.058  1.00 47.41      A16S
ATOM   5894  C2* G   A 284     148.444  71.380 -26.435  1.00 26.18      A16S
ATOM   5895  O2* G   A 284     149.656  70.777 -26.815  1.00 26.18      A16S
ATOM   5896  C3* G   A 284     147.339  70.344 -26.362  1.00 26.18      A16S
ATOM   5897  O3* G   A 284     147.818  69.124 -25.810  1.00 26.18      A16S
ATOM   5898  P   G   A 285     147.770  68.904 -24.213  1.00 44.07      A16S
ATOM   5899  O1P G   A 285     148.246  67.521 -23.935  1.00 54.29      A16S
ATOM   5900  O2P G   A 285     146.442  69.321 -23.714  1.00 54.29      A16S
ATOM   5901  O5* G   A 285     148.841  69.949 -23.659  1.00 44.07      A16S
ATOM   5902  C5* G   A 285     150.243  69.799 -23.961  1.00 44.07      A16S
ATOM   5903  C4* G   A 285     151.047  70.890 -23.296  1.00 44.07      A16S
ATOM   5904  O4* G   A 285     150.806  72.158 -23.950  1.00 44.07      A16S
ATOM   5905  C1* G   A 285     150.825  73.200 -22.991  1.00 44.07      A16S
ATOM   5906  N9  G   A 285     149.520  73.841 -22.986  1.00 54.29      A16S
ATOM   5907  C4  G   A 285     149.199  74.978 -22.308  1.00 54.29      A16S
ATOM   5908  N3  G   A 285     150.044  75.706 -21.566  1.00 54.29      A16S
ATOM   5909  C2  G   A 285     149.446  76.735 -21.014  1.00 54.29      A16S
ATOM   5910  N2  G   A 285     150.156  77.566 -20.262  1.00 54.29      A16S
ATOM   5911  N1  G   A 285     148.112  77.022 -21.164  1.00 54.29      A16S
ATOM   5912  C6  G   A 285     147.215  76.273 -21.918  1.00 54.29      A16S
ATOM   5913  O6  G   A 285     146.018  76.598 -21.971  1.00 54.29      A16S
ATOM   5914  C5  G   A 285     147.857  75.175 -22.535  1.00 54.29      A16S
ATOM   5915  N7  G   A 285     147.349  74.187 -23.368  1.00 54.29      A16S
ATOM   5916  C8  G   A 285     148.374  73.420 -23.612  1.00 54.29      A16S
ATOM   5917  C2* G   A 285     151.109  72.583 -21.625  1.00 44.07      A16S
ATOM   5918  O2* G   A 285     152.462  72.749 -21.305  1.00 44.07      A16S
ATOM   5919  C3* G   A 285     150.702  71.134 -21.844  1.00 44.07      A16S
ATOM   5920  O3* G   A 285     151.395  70.242 -21.001  1.00 44.07      A16S
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ATOM   5921  P    G   A 286     150.722  69.783 -19.620  1.00 29.21      A16S
ATOM   5922  O1P  G   A 286     151.566  68.685 -19.090  1.00 37.83      A16S
ATOM   5923  O2P  G   A 286     149.262  69.556 -19.837  1.00 37.83      A16S
ATOM   5924  O5*  G   A 286     150.922  71.043 -18.677  1.00 29.21      A16S
ATOM   5925  C5*  G   A 286     152.219  71.595 -18.531  1.00 29.21      A16S
ATOM   5926  C4*  G   A 286     152.156  72.901 -17.807  1.00 29.21      A16S
ATOM   5927  O4*  G   A 286     151.553  73.919 -18.632  1.00 29.21      A16S
ATOM   5928  C1*  G   A 286     150.911  74.872 -17.807  1.00 29.21      A16S
ATOM   5929  N9   G   A 286     149.508  74.958 -18.202  1.00 37.83      A16S
ATOM   5930  C4   G   A 286     148.581  75.879 -17.766  1.00 37.83      A16S
ATOM   5931  N3   G   A 286     148.797  76.864 -16.868  1.00 37.83      A16S
ATOM   5932  C2   G   A 286     147.711  77.592 -16.672  1.00 37.83      A16S
ATOM   5933  N2   G   A 286     147.742  78.608 -15.810  1.00 37.83      A16S
ATOM   5934  N1   G   A 286     146.515  77.374 -17.309  1.00 37.83      A16S
ATOM   5935  C6   G   A 286     146.276  76.368 -18.239  1.00 37.83      A16S
ATOM   5936  O6   G   A 286     145.168  76.261 -18.767  1.00 37.83      A16S
ATOM   5937  C5   G   A 286     147.420  75.577 -18.449  1.00 37.83      A16S
ATOM   5938  N7   G   A 286     147.604  74.482 -19.276  1.00 37.83      A16S
ATOM   5939  C8   G   A 286     148.853  74.148 -19.095  1.00 37.83      A16S
ATOM   5940  C2*  G   A 286     151.112  74.419 -16.366  1.00 29.21      A16S
ATOM   5941  O2*  G   A 286     152.300  75.004 -15.880  1.00 29.21      A16S
ATOM   5942  C3*  G   A 286     151.334  72.931 -16.544  1.00 29.21      A16S
ATOM   5943  O3*  G   A 286     152.032  72.376 -15.453  1.00 29.21      A16S
ATOM   5944  P    U   A 287     151.207  71.609 -14.315  1.00 38.74      A16S
ATOM   5945  O1P  U   A 287     152.196  71.067 -13.351  1.00 40.79      A16S
ATOM   5946  O2P  U   A 287     150.222  70.690 -14.969  1.00 40.79      A16S
ATOM   5947  O5*  U   A 287     150.408  72.782 -13.595  1.00 38.74      A16S
ATOM   5948  C5*  U   A 287     151.119  73.844 -12.943  1.00 38.74      A16S
ATOM   5949  C4*  U   A 287     150.172  74.940 -12.529  1.00 38.74      A16S
ATOM   5950  O4*  U   A 287     149.620  75.574 -13.704  1.00 38.74      A16S
ATOM   5951  C1*  U   A 287     148.296  75.988 -13.448  1.00 38.74      A16S
ATOM   5952  N1   U   A 287     147.401  75.270 -14.365  1.00 40.79      A16S
ATOM   5953  C6   U   A 287     147.826  74.164 -15.042  1.00 40.79      A16S
ATOM   5954  C2   U   A 287     146.116  75.745 -14.522  1.00 40.79      A16S
ATOM   5955  O2   U   A 287     145.691  76.717 -13.933  1.00 40.79      A16S
ATOM   5956  N3   U   A 287     145.342  75.034 -15.397  1.00 40.79      A16S
ATOM   5957  C4   U   A 287     145.712  73.924 -16.115  1.00 40.79      A16S
ATOM   5958  O4   U   A 287     144.915  73.417 -16.910  1.00 40.79      A16S
ATOM   5959  C5   U   A 287     147.050  73.495 -15.887  1.00 40.79      A16S
ATOM   5960  C2*  U   A 287     148.003  75.672 -11.988  1.00 38.74      A16S
ATOM   5961  O2*  U   A 287     148.355  76.793 -11.210  1.00 38.74      A16S
ATOM   5962  C3*  U   A 287     148.956  74.523 -11.730  1.00 38.74      A16S
ATOM   5963  O3*  U   A 287     149.235  74.386 -10.348  1.00 38.74      A16S
ATOM   5964  P    A   A 288     148.277  73.466  -9.446  1.00 39.01      A16S
ATOM   5965  O1P  A   A 288     148.672  73.669  -8.026  1.00 46.98      A16S
ATOM   5966  O2P  A   A 288     148.198  72.086 -10.004  1.00 46.98      A16S
ATOM   5967  O5*  A   A 288     146.860  74.145  -9.646  1.00 39.01      A16S
ATOM   5968  C5*  A   A 288     146.656  75.495  -9.227  1.00 39.01      A16S
ATOM   5969  C4*  A   A 288     145.198  75.830  -9.261  1.00 39.01      A16S
ATOM   5970  O4*  A   A 288     144.771  76.103 -10.608  1.00 39.01      A16S
ATOM   5971  C1*  A   A 288     143.430  75.702 -10.764  1.00 39.01      A16S
ATOM   5972  N9   A   A 288     143.374  74.732 -11.848  1.00 46.98      A16S
ATOM   5973  C4   A   A 288     142.319  74.532 -12.695  1.00 46.98      A16S
ATOM   5974  N3   A   A 288     141.147  75.181 -12.696  1.00 46.98      A16S
ATOM   5975  C2   A   A 288     140.353  74.702 -13.649  1.00 46.98      A16S
ATOM   5976  N1   A   A 288     140.583  73.723 -14.530  1.00 46.98      A16S
ATOM   5977  C6   A   A 288     141.778  73.098 -14.501  1.00 46.98      A16S
ATOM   5978  N6   A   A 288     142.013  72.121 -15.380  1.00 46.98      A16S
ATOM   5979  C5   A   A 288     142.705  73.514 -13.541  1.00 46.98      A16S
ATOM   5980  N7   A   A 288     143.988  73.091 -13.244  1.00 46.98      A16S
ATOM   5981  C8   A   A 288     144.338  73.841 -12.232  1.00 46.98      A16S
ATOM   5982  C2*  A   A 288     142.960  75.144  -9.424  1.00 39.01      A16S
ATOM   5983  O2*  A   A 288     142.382  76.205  -8.702  1.00 39.01      A16S
ATOM   5984  C3*  A   A 288     144.272  74.739  -8.781  1.00 39.01      A16S
ATOM   5985  O3*  A   A 288     144.220  74.752  -7.370  1.00 39.01      A16S
ATOM   5986  P    G   A 289     143.407  73.615  -6.602  1.00 36.83      A16S
ATOM   5987  O1P  G   A 289     144.011  73.444  -5.259  1.00 32.00      A16S
ATOM   5988  O2P  G   A 289     143.258  72.433  -7.497  1.00 32.00      A16S
ATOM   5989  O5*  G   A 289     141.981  74.303  -6.444  1.00 36.83      A16S
ATOM   5990  C5*  G   A 289     140.779  73.517  -6.411  1.00 36.83      A16S
ATOM   5991  C4*  G   A 289     139.843  73.911  -7.534  1.00 36.83      A16S
ATOM   5992  O4*  G   A 289     138.860  72.857  -7.634  1.00 36.83      A16S
ATOM   5993  C1*  G   A 289     137.571  73.417  -7.761  1.00 36.83      A16S
ATOM   5994  N9   G   A 289     136.909  73.318  -6.460  1.00 32.00      A16S
ATOM   5995  C4   G   A 289     135.587  73.551  -6.197  1.00 32.00      A16S
ATOM   5996  N3   G   A 289     134.656  73.908  -7.095  1.00 32.00      A16S
ATOM   5997  C2   G   A 289     133.473  74.066  -6.538  1.00 32.00      A16S
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ATOM   5998  N2  G   A 289     132.425  74.404  -7.302  1.00 32.00      A16S
ATOM   5999  N1  G   A 289     133.228  73.898  -5.199  1.00 32.00      A16S
ATOM   6000  C6  G   A 289     134.178  73.527  -4.260  1.00 32.00      A16S
ATOM   6001  O6  G   A 289     133.860  73.395  -3.074  1.00 32.00      A16S
ATOM   6002  C5  G   A 289     135.441  73.348  -4.845  1.00 32.00      A16S
ATOM   6003  N7  G   A 289     136.647  72.992  -4.268  1.00 32.00      A16S
ATOM   6004  C8  G   A 289     137.487  72.985  -5.261  1.00 32.00      A16S
ATOM   6005  C2* G   A 289     137.781  74.871  -8.165  1.00 36.83      A16S
ATOM   6006  O2* G   A 289     137.975  74.929  -9.569  1.00 36.83      A16S
ATOM   6007  C3* G   A 289     139.044  75.206  -7.397  1.00 36.83      A16S
ATOM   6008  O3* G   A 289     139.669  76.311  -8.020  1.00 36.83      A16S
ATOM   6009  P   C   A 290     139.246  77.819  -7.616  1.00 29.85      A16S
ATOM   6010  O1P C   A 290     140.044  78.740  -8.475  1.00 29.06      A16S
ATOM   6011  O2P C   A 290     139.307  77.966  -6.147  1.00 29.06      A16S
ATOM   6012  O5* C   A 290     137.720  77.977  -8.041  1.00 29.85      A16S
ATOM   6013  C5* C   A 290     137.374  78.483  -9.339  1.00 29.85      A16S
ATOM   6014  C4* C   A 290     135.926  78.905  -9.378  1.00 29.85      A16S
ATOM   6015  O4* C   A 290     135.086  77.765  -9.069  1.00 29.85      A16S
ATOM   6016  C1* C   A 290     133.938  78.193  -8.366  1.00 29.85      A16S
ATOM   6017  N1  C   A 290     134.009  77.676  -6.987  1.00 29.06      A16S
ATOM   6018  C6  C   A 290     135.194  77.293  -6.437  1.00 29.06      A16S
ATOM   6019  C2  C   A 290     132.834  77.615  -6.230  1.00 29.06      A16S
ATOM   6020  O2  C   A 290     131.760  77.942  -6.761  1.00 29.06      A16S
ATOM   6021  N3  C   A 290     132.893  77.211  -4.946  1.00 29.06      A16S
ATOM   6022  C4  C   A 290     134.055  76.883  -4.415  1.00 29.06      A16S
ATOM   6023  N4  C   A 290     134.073  76.552  -3.141  1.00 29.06      A16S
ATOM   6024  C5  C   A 290     135.259  76.896  -5.167  1.00 29.06      A16S
ATOM   6025  C2* C   A 290     133.985  79.716  -8.332  1.00 29.85      A16S
ATOM   6026  O2* C   A 290     133.328  80.236  -9.472  1.00 29.85      A16S
ATOM   6027  C3* C   A 290     135.479  79.965  -8.389  1.00 29.85      A16S
ATOM   6028  O3* C   A 290     135.741  81.284  -8.818  1.00 29.85      A16S
ATOM   6029  P   C   A 291     135.910  82.442  -7.721  1.00 35.59      A16S
ATOM   6030  O1P C   A 291     136.262  83.688  -8.431  1.00 30.27      A16S
ATOM   6031  O2P C   A 291     136.803  81.925  -6.658  1.00 30.27      A16S
ATOM   6032  O5* C   A 291     134.450  82.619  -7.122  1.00 35.59      A16S
ATOM   6033  C5* C   A 291     133.408  83.158  -7.950  1.00 35.59      A16S
ATOM   6034  C4* C   A 291     132.105  83.257  -7.196  1.00 35.59      A16S
ATOM   6035  O4* C   A 291     131.693  81.935  -6.781  1.00 35.59      A16S
ATOM   6036  C1* C   A 291     131.007  82.017  -5.555  1.00 35.59      A16S
ATOM   6037  N1  C   A 291     131.807  81.333  -4.548  1.00 30.27      A16S
ATOM   6038  C6  C   A 291     133.116  81.034  -4.774  1.00 30.27      A16S
ATOM   6039  C2  C   A 291     131.213  81.022  -3.330  1.00 30.27      A16S
ATOM   6040  O2  C   A 291     130.009  81.274  -3.170  1.00 30.27      A16S
ATOM   6041  N3  C   A 291     131.956  80.462  -2.356  1.00 30.27      A16S
ATOM   6042  C4  C   A 291     133.244  80.214  -2.569  1.00 30.27      A16S
ATOM   6043  N4  C   A 291     133.955  79.712  -1.561  1.00 30.27      A16S
ATOM   6044  C5  C   A 291     133.864  80.483  -3.822  1.00 30.27      A16S
ATOM   6045  C2* C   A 291     130.907  83.491  -5.187  1.00 35.59      A16S
ATOM   6046  O2* C   A 291     129.702  84.030  -5.686  1.00 35.59      A16S
ATOM   6047  C3* C   A 291     132.111  84.054  -5.910  1.00 35.59      A16S
ATOM   6048  O3* C   A 291     131.991  85.444  -6.098  1.00 35.59      A16S
ATOM   6049  P   G   A 292     132.423  86.413  -4.903  1.00 28.45      A16S
ATOM   6050  O1P G   A 292     132.338  87.816  -5.352  1.00 29.32      A16S
ATOM   6051  O2P G   A 292     133.677  85.916  -4.336  1.00 29.32      A16S
ATOM   6052  O5* G   A 292     131.293  86.142  -3.825  1.00 28.45      A16S
ATOM   6053  C5* G   A 292     129.907  86.341  -4.155  1.00 28.45      A16S
ATOM   6054  C4* G   A 292     129.047  86.126  -2.933  1.00 28.45      A16S
ATOM   6055  O4* G   A 292     129.150  84.743  -2.509  1.00 28.45      A16S
ATOM   6056  C1* G   A 292     129.110  84.680  -1.101  1.00 28.45      A16S
ATOM   6057  N9  G   A 292     130.407  84.222  -0.651  1.00 29.32      A16S
ATOM   6058  C4  G   A 292     130.683  83.609   0.539  1.00 29.32      A16S
ATOM   6059  N3  G   A 292     129.789  83.293   1.493  1.00 29.32      A16S
ATOM   6060  C2  G   A 292     130.365  82.741   2.536  1.00 29.32      A16S
ATOM   6061  N2  G   A 292     129.635  82.391   3.589  1.00 29.32      A16S
ATOM   6062  N1  G   A 292     131.705  82.502   2.629  1.00 29.32      A16S
ATOM   6063  C6  G   A 292     132.642  82.822   1.660  1.00 29.32      A16S
ATOM   6064  O6  G   A 292     133.833  82.586   1.850  1.00 29.32      A16S
ATOM   6065  C5  G   A 292     132.044  83.419   0.542  1.00 29.32      A16S
ATOM   6066  N7  G   A 292     132.610  83.887  -0.635  1.00 29.32      A16S
ATOM   6067  C8  G   A 292     131.599  84.347  -1.315  1.00 29.32      A16S
ATOM   6068  C2* G   A 292     128.872  86.090  -0.577  1.00 28.45      A16S
ATOM   6069  O2* G   A 292     127.486  86.283  -0.447  1.00 28.45      A16S
ATOM   6070  C3* G   A 292     129.439  86.931  -1.703  1.00 28.45      A16S
ATOM   6071  O3* G   A 292     128.888  88.236  -1.717  1.00 28.45      A16S
ATOM   6072  P   G   A 293     129.701  89.440  -1.034  1.00 31.48      A16S
ATOM   6073  O1P G   A 293     128.770  90.596  -0.969  1.00 41.16      A16S
ATOM   6074  O2P G   A 293     131.026  89.589  -1.701  1.00 41.16      A16S
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ATOM	6075	O5*	G	A	293	129.951	88.942	0.455	1.00	31.48	A16S
ATOM	6076	C5*	G	A	293	131.081	89.397	1.190	1.00	31.48	A16S
ATOM	6077	C4*	G	A	293	131.827	88.222	1.761	1.00	31.48	A16S
ATOM	6078	O4*	G	A	293	132.077	87.245	0.724	1.00	31.48	A16S
ATOM	6079	C1*	G	A	293	133.380	86.706	0.876	1.00	31.48	A16S
ATOM	6080	N9	G	A	293	134.165	87.068	-0.301	1.00	41.16	A16S
ATOM	6081	C4	G	A	293	135.446	86.682	-0.578	1.00	41.16	A16S
ATOM	6082	N3	G	A	293	136.210	85.898	0.189	1.00	41.16	A16S
ATOM	6083	C2	G	A	293	137.400	85.715	-0.337	1.00	41.16	A16S
ATOM	6084	N2	G	A	293	138.296	84.955	0.294	1.00	41.16	A16S
ATOM	6085	N1	G	A	293	137.805	86.262	-1.521	1.00	41.16	A16S
ATOM	6086	C6	G	A	293	137.030	87.075	-2.326	1.00	41.16	A16S
ATOM	6087	O6	G	A	293	137.493	87.525	-3.379	1.00	41.16	A16S
ATOM	6088	C5	G	A	293	135.756	87.275	-1.777	1.00	41.16	A16S
ATOM	6089	N7	G	A	293	134.690	88.017	-2.252	1.00	41.16	A16S
ATOM	6090	C8	G	A	293	133.768	87.866	-1.346	1.00	41.16	A16S
ATOM	6091	C2*	G	A	293	133.971	87.283	2.161	1.00	31.48	A16S
ATOM	6092	O2*	G	A	293	133.742	86.381	3.229	1.00	31.48	A16S
ATOM	6093	C3*	G	A	293	133.196	88.582	2.293	1.00	31.48	A16S
ATOM	6094	O3*	G	A	293	133.098	89.025	3.619	1.00	31.48	A16S
ATOM	6095	P	U	A	294	133.943	90.287	4.075	1.00	29.70	A16S
ATOM	6096	O1P	U	A	294	133.599	90.545	5.477	1.00	42.93	A16S
ATOM	6097	O2P	U	A	294	133.789	91.365	3.075	1.00	42.93	A16S
ATOM	6098	O5*	U	A	294	135.420	89.725	4.064	1.00	29.70	A16S
ATOM	6099	C5*	U	A	294	135.745	88.667	4.950	1.00	29.70	A16S
ATOM	6100	C4*	U	A	294	137.149	88.195	4.727	1.00	29.70	A16S
ATOM	6101	O4*	U	A	294	137.260	87.521	3.453	1.00	29.70	A16S
ATOM	6102	C1*	U	A	294	138.533	87.764	2.901	1.00	29.70	A16S
ATOM	6103	N1	U	A	294	138.327	88.424	1.606	1.00	42.93	A16S
ATOM	6104	C6	U	A	294	137.096	88.924	1.287	1.00	42.93	A16S
ATOM	6105	C2	U	A	294	139.389	88.518	0.723	1.00	42.93	A16S
ATOM	6106	O2	U	A	294	140.512	88.101	0.975	1.00	42.93	A16S
ATOM	6107	N3	U	A	294	139.086	89.127	-0.468	1.00	42.93	A16S
ATOM	6108	C4	U	A	294	137.863	89.649	-0.843	1.00	42.93	A16S
ATOM	6109	O4	U	A	294	137.736	90.196	-1.939	1.00	42.93	A16S
ATOM	6110	C5	U	A	294	136.837	89.514	0.131	1.00	42.93	A16S
ATOM	6111	C2*	U	A	294	139.327	88.577	3.928	1.00	29.70	A16S
ATOM	6112	O2*	U	A	294	140.026	87.670	4.762	1.00	29.70	A16S
ATOM	6113	C3*	U	A	294	138.217	89.262	4.709	1.00	29.70	A16S
ATOM	6114	O3*	U	A	294	138.610	89.577	6.034	1.00	29.70	A16S
ATOM	6115	P	C	A	295	138.996	91.091	6.396	1.00	37.18	A16S
ATOM	6116	O1P	C	A	295	139.054	91.247	7.878	1.00	34.73	A16S
ATOM	6117	O2P	C	A	295	138.071	91.945	5.598	1.00	34.73	A16S
ATOM	6118	O5*	C	A	295	140.468	91.258	5.810	1.00	37.18	A16S
ATOM	6119	C5*	C	A	295	141.552	90.462	6.314	1.00	37.18	A16S
ATOM	6120	C4*	C	A	295	142.768	90.605	5.436	1.00	37.18	A16S
ATOM	6121	O4*	C	A	295	142.521	90.003	4.140	1.00	37.18	A16S
ATOM	6122	C1*	C	A	295	143.261	90.692	3.148	1.00	37.18	A16S
ATOM	6123	N1	C	A	295	142.346	91.192	2.115	1.00	34.73	A16S
ATOM	6124	C6	C	A	295	140.997	91.180	2.294	1.00	34.73	A16S
ATOM	6125	C2	C	A	295	142.892	91.693	0.935	1.00	34.73	A16S
ATOM	6126	O2	C	A	295	144.122	91.688	0.792	1.00	34.73	A16S
ATOM	6127	N3	C	A	295	142.082	92.173	-0.017	1.00	34.73	A16S
ATOM	6128	C4	C	A	295	140.771	92.171	0.171	1.00	34.73	A16S
ATOM	6129	N4	C	A	295	140.014	92.681	-0.792	1.00	34.73	A16S
ATOM	6130	C5	C	A	295	140.180	91.656	1.357	1.00	34.73	A16S
ATOM	6131	C2*	C	A	295	144.006	91.834	3.831	1.00	37.18	A16S
ATOM	6132	O2*	C	A	295	145.334	91.446	4.116	1.00	37.18	A16S
ATOM	6133	C3*	C	A	295	143.176	92.020	5.086	1.00	37.18	A16S
ATOM	6134	O3*	C	A	295	143.883	92.683	6.105	1.00	37.18	A16S
ATOM	6135	P	U	A	296	143.621	94.249	6.321	1.00	27.21	A16S
ATOM	6136	O1P	U	A	296	144.248	94.627	7.607	1.00	27.90	A16S
ATOM	6137	O2P	U	A	296	142.165	94.525	6.110	1.00	27.90	A16S
ATOM	6138	O5*	U	A	296	144.387	94.911	5.090	1.00	27.21	A16S
ATOM	6139	C5*	U	A	296	145.801	94.734	4.917	1.00	27.21	A16S
ATOM	6140	C4*	U	A	296	146.231	95.208	3.548	1.00	27.21	A16S
ATOM	6141	O4*	U	A	296	145.608	94.397	2.515	1.00	27.21	A16S
ATOM	6142	C1*	U	A	296	145.398	95.184	1.360	1.00	27.21	A16S
ATOM	6143	N1	U	A	296	143.961	95.222	1.079	1.00	27.90	A16S
ATOM	6144	C6	U	A	296	143.044	94.894	2.034	1.00	27.90	A16S
ATOM	6145	C2	U	A	296	143.561	95.623	-0.185	1.00	27.90	A16S
ATOM	6146	O2	U	A	296	144.349	95.915	-1.078	1.00	27.90	A16S
ATOM	6147	N3	U	A	296	142.206	95.671	-0.369	1.00	27.90	A16S
ATOM	6148	C4	U	A	296	141.244	95.364	0.547	1.00	27.90	A16S
ATOM	6149	O4	U	A	296	140.072	95.449	0.229	1.00	27.90	A16S
ATOM	6150	C5	U	A	296	141.734	94.952	1.816	1.00	27.90	A16S
ATOM	6151	C2*	U	A	296	145.912	96.591	1.652	1.00	27.21	A16S

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ATOM   6152  O2*  U   A 296     147.216  96.714   1.134  1.00 27.21      A16S
ATOM   6153  C3*  U   A 296     145.866  96.632   3.173  1.00 27.21      A16S
ATOM   6154  O3*  U   A 296     146.794  97.562   3.693  1.00 27.21      A16S
ATOM   6155  P    G   A 297     146.343  99.078   3.935  1.00 19.36      A16S
ATOM   6156  O1P  G   A 297     147.557  99.801   4.408  1.00 42.95      A16S
ATOM   6157  O2P  G   A 297     145.123  99.098   4.760  1.00 42.95      A16S
ATOM   6158  O5*  G   A 297     145.903  99.585   2.495  1.00 19.36      A16S
ATOM   6159  C5*  G   A 297     146.870  99.903   1.502  1.00 19.36      A16S
ATOM   6160  C4*  G   A 297     146.188 100.439   0.273  1.00 19.36      A16S
ATOM   6161  O4*  G   A 297     145.399  99.388  -0.339  1.00 19.36      A16S
ATOM   6162  C1*  G   A 297     144.270  99.949  -0.986  1.00 19.36      A16S
ATOM   6163  N9   G   A 297     143.062  99.377  -0.403  1.00 42.95      A16S
ATOM   6164  C4   G   A 297     141.830  99.322  -0.994  1.00 42.95      A16S
ATOM   6165  N3   G   A 297     141.532  99.746  -2.234  1.00 42.95      A16S
ATOM   6166  C2   G   A 297     140.255  99.581  -2.520  1.00 42.95      A16S
ATOM   6167  N2   G   A 297     139.793  99.939  -3.725  1.00 42.95      A16S
ATOM   6168  N1   G   A 297     139.340  99.054  -1.652  1.00 42.95      A16S
ATOM   6169  C6   G   A 297     139.622  98.619  -0.365  1.00 42.95      A16S
ATOM   6170  O6   G   A 297     138.709  98.177   0.352  1.00 42.95      A16S
ATOM   6171  C5   G   A 297     140.997  98.772  -0.054  1.00 42.95      A16S
ATOM   6172  N7   G   A 297     141.699  98.452   1.095  1.00 42.95      A16S
ATOM   6173  C8   G   A 297     142.920  98.824   0.839  1.00 42.95      A16S
ATOM   6174  C2*  G   A 297     144.330 101.460  -0.778  1.00 19.36      A16S
ATOM   6175  O2*  G   A 297     144.972 102.059  -1.882  1.00 19.36      A16S
ATOM   6176  C3*  G   A 297     145.183 101.557   0.477  1.00 19.36      A16S
ATOM   6177  O3*  G   A 297     145.768 102.837   0.633  1.00 19.36      A16S
ATOM   6178  P    A   A 298     145.180 103.827   1.750  1.00 27.56      A16S
ATOM   6179  O1P  A   A 298     146.112 104.965   1.919  1.00 47.69      A16S
ATOM   6180  O2P  A   A 298     144.870 102.961   2.926  1.00 47.69      A16S
ATOM   6181  O5*  A   A 298     143.834 104.367   1.079  1.00 27.56      A16S
ATOM   6182  C5*  A   A 298     142.804 104.991   1.867  1.00 27.56      A16S
ATOM   6183  C4*  A   A 298     141.916 105.833   0.991  1.00 27.56      A16S
ATOM   6184  O4*  A   A 298     142.710 106.873   0.380  1.00 27.56      A16S
ATOM   6185  C1*  A   A 298     142.266 107.111  -0.946  1.00 27.56      A16S
ATOM   6186  N9   A   A 298     143.398 106.912  -1.855  1.00 47.69      A16S
ATOM   6187  C4   A   A 298     143.540 107.398  -3.134  1.00 47.69      A16S
ATOM   6188  N3   A   A 298     142.677 108.157  -3.818  1.00 47.69      A16S
ATOM   6189  C2   A   A 298     143.151 108.430  -5.035  1.00 47.69      A16S
ATOM   6190  N1   A   A 298     144.302 108.062  -5.601  1.00 47.69      A16S
ATOM   6191  C6   A   A 298     145.154 107.305  -4.886  1.00 47.69      A16S
ATOM   6192  N6   A   A 298     146.317 106.951  -5.446  1.00 47.69      A16S
ATOM   6193  C5   A   A 298     144.763 106.938  -3.579  1.00 47.69      A16S
ATOM   6194  N7   A   A 298     145.383 106.175  -2.601  1.00 47.69      A16S
ATOM   6195  C8   A   A 298     144.537 106.194  -1.603  1.00 47.69      A16S
ATOM   6196  C2*  A   A 298     141.083 106.181  -1.215  1.00 27.56      A16S
ATOM   6197  O2*  A   A 298     139.880 106.888  -1.037  1.00 27.56      A16S
ATOM   6198  C3*  A   A 298     141.286 105.093  -0.169  1.00 27.56      A16S
ATOM   6199  O3*  A   A 298     140.059 104.504   0.231  1.00 27.56      A16S
ATOM   6200  P    G   A 299     139.794 102.944  -0.060  1.00 29.96      A16S
ATOM   6201  O1P  G   A 299     138.540 102.548   0.659  1.00 40.83      A16S
ATOM   6202  O2P  G   A 299     141.065 102.198   0.219  1.00 40.83      A16S
ATOM   6203  O5*  G   A 299     139.457 102.914  -1.616  1.00 29.96      A16S
ATOM   6204  C5*  G   A 299     138.192 103.395  -2.081  1.00 29.96      A16S
ATOM   6205  C4*  G   A 299     138.344 104.012  -3.438  1.00 29.96      A16S
ATOM   6206  O4*  G   A 299     139.581 104.752  -3.430  1.00 29.96      A16S
ATOM   6207  C1*  G   A 299     140.182 104.684  -4.703  1.00 29.96      A16S
ATOM   6208  N9   G   A 299     141.570 104.253  -4.531  1.00 40.83      A16S
ATOM   6209  C4   G   A 299     142.606 104.432  -5.420  1.00 40.83      A16S
ATOM   6210  N3   G   A 299     142.517 105.010  -6.632  1.00 40.83      A16S
ATOM   6211  C2   G   A 299     143.681 105.053  -7.239  1.00 40.83      A16S
ATOM   6212  N2   G   A 299     143.773 105.599  -8.450  1.00 40.83      A16S
ATOM   6213  N1   G   A 299     144.838 104.562  -6.705  1.00 40.83      A16S
ATOM   6214  C6   G   A 299     144.950 103.951  -5.467  1.00 40.83      A16S
ATOM   6215  O6   G   A 299     146.043 103.515  -5.092  1.00 40.83      A16S
ATOM   6216  C5   G   A 299     143.715 103.910  -4.799  1.00 40.83      A16S
ATOM   6217  N7   G   A 299     143.388 103.400  -3.554  1.00 40.83      A16S
ATOM   6218  C8   G   A 299     142.108 103.619  -3.440  1.00 40.83      A16S
ATOM   6219  C2*  G   A 299     139.281 103.838  -5.610  1.00 29.96      A16S
ATOM   6220  O2*  G   A 299     138.437 104.690  -6.351  1.00 29.96      A16S
ATOM   6221  C3*  G   A 299     138.468 103.046  -4.599  1.00 29.96      A16S
ATOM   6222  O3*  G   A 299     137.177 102.761  -5.115  1.00 29.96      A16S
ATOM   6223  P    A   A 300     136.882 101.331  -5.782  1.00 35.55      A16S
ATOM   6224  O1P  A   A 300     135.470 101.312  -6.206  1.00 33.26      A16S
ATOM   6225  O2P  A   A 300     137.382 100.240  -4.908  1.00 33.26      A16S
ATOM   6226  O5*  A   A 300     137.761 101.353  -7.105  1.00 35.55      A16S
ATOM   6227  C5*  A   A 300     137.320 102.064  -8.274  1.00 35.55      A16S
ATOM   6228  C4*  A   A 300     138.363 101.974  -9.357  1.00 35.55      A16S
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ATOM   6229  O4*  A   A 300     139.540 102.703  -8.935  1.00 35.55       A16S
ATOM   6230  C1*  A   A 300     140.700 101.981  -9.289  1.00 35.55       A16S
ATOM   6231  N9   A   A 300     141.310 101.507  -8.051  1.00 33.26       A16S
ATOM   6232  C4   A   A 300     142.647 101.447  -7.775  1.00 33.26       A16S
ATOM   6233  N3   A   A 300     143.654 101.797  -8.581  1.00 33.26       A16S
ATOM   6234  C2   A   A 300     144.822 101.621  -7.969  1.00 33.26       A16S
ATOM   6235  N1   A   A 300     145.074 101.172  -6.736  1.00 33.26       A16S
ATOM   6236  C6   A   A 300     144.034 100.828  -5.955  1.00 33.26       A16S
ATOM   6237  N6   A   A 300     144.284 100.392  -4.725  1.00 33.26       A16S
ATOM   6238  C5   A   A 300     142.746 100.961  -6.489  1.00 33.26       A16S
ATOM   6239  N7   A   A 300     141.493 100.702  -5.967  1.00 33.26       A16S
ATOM   6240  C8   A   A 300     140.679 101.040  -6.931  1.00 33.26       A16S
ATOM   6241  C2*  A   A 300     140.255 100.818 -10.170  1.00 35.55       A16S
ATOM   6242  O2*  A   A 300     140.219 101.219 -11.527  1.00 35.55       A16S
ATOM   6243  C3*  A   A 300     138.857 100.567  -9.642  1.00 35.55       A16S
ATOM   6244  O3*  A   A 300     138.066  99.900 -10.604  1.00 35.55       A16S
ATOM   6245  P    G   A 301     137.894  98.304 -10.522  1.00 32.04       A16S
ATOM   6246  O1P  G   A 301     137.545  97.905 -11.918  1.00 29.90       A16S
ATOM   6247  O2P  G   A 301     136.972  97.977  -9.411  1.00 29.90       A16S
ATOM   6248  O5*  G   A 301     139.323  97.729 -10.089  1.00 32.04       A16S
ATOM   6249  C5*  G   A 301     140.339  97.442 -11.064  1.00 32.04       A16S
ATOM   6250  C4*  G   A 301     141.713  97.544 -10.444  1.00 32.04       A16S
ATOM   6251  O4*  G   A 301     141.644  98.404  -9.278  1.00 32.04       A16S
ATOM   6252  C1*  G   A 301     142.606  97.995  -8.321  1.00 32.04       A16S
ATOM   6253  N9   G   A 301     141.933  97.665  -7.069  1.00 29.90       A16S
ATOM   6254  C4   G   A 301     142.551  97.279  -5.915  1.00 29.90       A16S
ATOM   6255  N3   G   A 301     143.876  97.173  -5.736  1.00 29.90       A16S
ATOM   6256  C2   G   A 301     144.172  96.749  -4.524  1.00 29.90       A16S
ATOM   6257  N2   G   A 301     145.455  96.582  -4.166  1.00 29.90       A16S
ATOM   6258  N1   G   A 301     143.241  96.455  -3.566  1.00 29.90       A16S
ATOM   6259  C6   G   A 301     141.869  96.563  -3.730  1.00 29.90       A16S
ATOM   6260  O6   G   A 301     141.113  96.275  -2.797  1.00 29.90       A16S
ATOM   6261  C5   G   A 301     141.537  97.015  -5.023  1.00 29.90       A16S
ATOM   6262  N7   G   A 301     140.296  97.254  -5.598  1.00 29.90       A16S
ATOM   6263  C8   G   A 301     140.580  97.645  -6.811  1.00 29.90       A16S
ATOM   6264  C2*  G   A 301     143.337  96.780  -8.889  1.00 32.04       A16S
ATOM   6265  O2*  G   A 301     144.557  97.190  -9.463  1.00 32.04       A16S
ATOM   6266  C3*  G   A 301     142.336  96.262  -9.915  1.00 32.04       A16S
ATOM   6267  O3*  G   A 301     142.981  95.496 -10.931  1.00 32.04       A16S
ATOM   6268  P    G   A 302     142.990  93.886 -10.834  1.00 36.69       A16S
ATOM   6269  O1P  G   A 302     143.481  93.423 -12.156  1.00 26.21       A16S
ATOM   6270  O2P  G   A 302     141.697  93.375 -10.317  1.00 26.21       A16S
ATOM   6271  O5*  G   A 302     144.110  93.564  -9.754  1.00 36.69       A16S
ATOM   6272  C5*  G   A 302     145.482  93.852 -10.047  1.00 36.69       A16S
ATOM   6273  C4*  G   A 302     146.326  93.654  -8.827  1.00 36.69       A16S
ATOM   6274  O4*  G   A 302     145.856  94.542  -7.795  1.00 36.69       A16S
ATOM   6275  C1*  G   A 302     145.925  93.894  -6.545  1.00 36.69       A16S
ATOM   6276  N9   G   A 302     144.564  93.765  -6.045  1.00 26.21       A16S
ATOM   6277  C4   G   A 302     144.199  93.423  -4.772  1.00 26.21       A16S
ATOM   6278  N3   G   A 302     145.039  93.151  -3.761  1.00 26.21       A16S
ATOM   6279  C2   G   A 302     144.391  92.858  -2.658  1.00 26.21       A16S
ATOM   6280  N2   G   A 302     145.068  92.588  -1.546  1.00 26.21       A16S
ATOM   6281  N1   G   A 302     143.029  92.816  -2.556  1.00 26.21       A16S
ATOM   6282  C6   G   A 302     142.145  93.096  -3.586  1.00 26.21       A16S
ATOM   6283  O6   G   A 302     140.925  93.031  -3.388  1.00 26.21       A16S
ATOM   6284  C5   G   A 302     142.825  93.428  -4.773  1.00 26.21       A16S
ATOM   6285  N7   G   A 302     142.333  93.778  -6.023  1.00 26.21       A16S
ATOM   6286  C8   G   A 302     143.400  93.964  -6.746  1.00 26.21       A16S
ATOM   6287  C2*  G   A 302     146.589  92.537  -6.762  1.00 36.69       A16S
ATOM   6288  O2*  G   A 302     147.987  92.658  -6.598  1.00 36.69       A16S
ATOM   6289  C3*  G   A 302     146.247  92.273  -8.212  1.00 36.69       A16S
ATOM   6290  O3*  G   A 302     147.188  91.405  -8.800  1.00 36.69       A16S
ATOM   6291  P    A   A 303     146.726  89.943  -9.234  1.00 30.54       A16S
ATOM   6292  O1P  A   A 303     147.830  89.382 -10.056  1.00 43.61       A16S
ATOM   6293  O2P  A   A 303     145.354  90.054  -9.797  1.00 43.61       A16S
ATOM   6294  O5*  A   A 303     146.665  89.143  -7.867  1.00 30.54       A16S
ATOM   6295  C5*  A   A 303     147.880  88.831  -7.196  1.00 30.54       A16S
ATOM   6296  C4*  A   A 303     147.637  88.572  -5.738  1.00 30.54       A16S
ATOM   6297  O4*  A   A 303     147.009  89.724  -5.132  1.00 30.54       A16S
ATOM   6298  C1*  A   A 303     146.224  89.306  -4.036  1.00 30.54       A16S
ATOM   6299  N9   A   A 303     144.838  89.685  -4.280  1.00 43.61       A16S
ATOM   6300  C4   A   A 303     143.829  89.595  -3.359  1.00 43.61       A16S
ATOM   6301  N3   A   A 303     143.929  89.197  -2.084  1.00 43.61       A16S
ATOM   6302  C2   A   A 303     142.743  89.209  -1.504  1.00 43.61       A16S
ATOM   6303  N1   A   A 303     141.558  89.544  -2.014  1.00 43.61       A16S
ATOM   6304  C6   A   A 303     141.501  89.942  -3.298  1.00 43.61       A16S
ATOM   6305  N6   A   A 303     140.325  90.278  -3.815  1.00 43.61       A16S
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ATOM   6306  C5  A   A 303     142.686  89.978  -4.018  1.00 43.61      A16S
ATOM   6307  N7  A   A 303     142.966  90.334  -5.326  1.00 43.61      A16S
ATOM   6308  C8  A   A 303     144.258  90.151  -5.428  1.00 43.61      A16S
ATOM   6309  C2* A   A 303     146.341  87.787  -3.939  1.00 30.54      A16S
ATOM   6310  O2* A   A 303     147.355  87.478  -3.001  1.00 30.54      A16S
ATOM   6311  C3* A   A 303     146.724  87.422  -5.364  1.00 30.54      A16S
ATOM   6312  O3* A   A 303     147.385  86.170  -5.433  1.00 30.54      A16S
ATOM   6313  P   U   A 304     146.604  84.905  -6.033  1.00 39.78      A16S
ATOM   6314  O1P U   A 304     147.615  83.852  -6.272  1.00 56.10      A16S
ATOM   6315  O2P U   A 304     145.745  85.364  -7.146  1.00 56.10      A16S
ATOM   6316  O5* U   A 304     145.643  84.442  -4.855  1.00 39.78      A16S
ATOM   6317  C5* U   A 304     146.177  84.148  -3.560  1.00 39.78      A16S
ATOM   6318  C4* U   A 304     145.085  84.182  -2.528  1.00 39.78      A16S
ATOM   6319  O4* U   A 304     144.449  85.480  -2.568  1.00 39.78      A16S
ATOM   6320  C1* U   A 304     143.090  85.354  -2.206  1.00 39.78      A16S
ATOM   6321  N1  U   A 304     142.242  86.013  -3.219  1.00 56.10      A16S
ATOM   6322  C6  U   A 304     142.747  86.422  -4.429  1.00 56.10      A16S
ATOM   6323  C2  U   A 304     140.904  86.224  -2.908  1.00 56.10      A16S
ATOM   6324  O2  U   A 304     140.399  85.864  -1.862  1.00 56.10      A16S
ATOM   6325  N3  U   A 304     140.173  86.866  -3.875  1.00 56.10      A16S
ATOM   6326  C4  U   A 304     140.614  87.295  -5.105  1.00 56.10      A16S
ATOM   6327  O4  U   A 304     139.809  87.805  -5.899  1.00 56.10      A16S
ATOM   6328  C5  U   A 304     141.999  87.037  -5.357  1.00 56.10      A16S
ATOM   6329  C2* U   A 304     142.817  83.874  -1.935  1.00 39.78      A16S
ATOM   6330  O2* U   A 304     142.999  83.665  -0.548  1.00 39.78      A16S
ATOM   6331  C3* U   A 304     143.940  83.199  -2.711  1.00 39.78      A16S
ATOM   6332  O3* U   A 304     144.266  81.915  -2.167  1.00 39.78      A16S
ATOM   6333  P   G   A 305     143.688  80.576  -2.860  1.00 40.77      A16S
ATOM   6334  O1P G   A 305     144.563  79.467  -2.400  1.00 46.44      A16S
ATOM   6335  O2P G   A 305     143.475  80.793  -4.324  1.00 46.44      A16S
ATOM   6336  O5* G   A 305     142.258  80.381  -2.192  1.00 40.77      A16S
ATOM   6337  C5* G   A 305     142.118  80.363  -0.769  1.00 40.77      A16S
ATOM   6338  C4* G   A 305     140.674  80.520  -0.393  1.00 40.77      A16S
ATOM   6339  O4* G   A 305     140.191  81.776  -0.935  1.00 40.77      A16S
ATOM   6340  C1* G   A 305     139.019  81.543  -1.678  1.00 40.77      A16S
ATOM   6341  N9  G   A 305     138.926  82.516  -2.761  1.00 46.44      A16S
ATOM   6342  C4  G   A 305     137.811  83.234  -3.095  1.00 46.44      A16S
ATOM   6343  N3  G   A 305     136.637  83.202  -2.450  1.00 46.44      A16S
ATOM   6344  C2  G   A 305     135.753  83.976  -3.019  1.00 46.44      A16S
ATOM   6345  N2  G   A 305     134.529  84.074  -2.502  1.00 46.44      A16S
ATOM   6346  N1  G   A 305     135.998  84.715  -4.137  1.00 46.44      A16S
ATOM   6347  C6  G   A 305     137.201  84.763  -4.814  1.00 46.44      A16S
ATOM   6348  O6  G   A 305     137.317  85.469  -5.818  1.00 46.44      A16S
ATOM   6349  C5  G   A 305     138.156  83.950  -4.213  1.00 46.44      A16S
ATOM   6350  N7  G   A 305     139.473  83.716  -4.561  1.00 46.44      A16S
ATOM   6351  C8  G   A 305     139.897  82.868  -3.664  1.00 46.44      A16S
ATOM   6352  C2* G   A 305     139.117  80.094  -2.144  1.00 40.77      A16S
ATOM   6353  O2* G   A 305     137.850  79.565  -2.479  1.00 40.77      A16S
ATOM   6354  C3* G   A 305     139.745  79.437  -0.924  1.00 40.77      A16S
ATOM   6355  O3* G   A 305     138.706  79.189   0.018  1.00 40.77      A16S
ATOM   6356  P   G   A 306     138.601  77.756   0.736  1.00 62.93      A16S
ATOM   6357  O1P G   A 306     139.071  76.714  -0.225  1.00 90.28      A16S
ATOM   6358  O2P G   A 306     137.232  77.650   1.328  1.00 90.28      A16S
ATOM   6359  O5* G   A 306     139.652  77.898   1.924  1.00 62.93      A16S
ATOM   6360  C5* G   A 306     140.532  76.828   2.265  1.00 62.93      A16S
ATOM   6361  C4* G   A 306     140.816  76.838   3.748  1.00 62.93      A16S
ATOM   6362  O4* G   A 306     141.485  78.071   4.111  1.00 62.93      A16S
ATOM   6363  C1* G   A 306     141.157  78.412   5.443  1.00 62.93      A16S
ATOM   6364  N9  G   A 306     140.654  79.781   5.479  1.00 90.28      A16S
ATOM   6365  C4  G   A 306     140.310  80.479   6.608  1.00 90.28      A16S
ATOM   6366  N3  G   A 306     140.343  80.002   7.871  1.00 90.28      A16S
ATOM   6367  C2  G   A 306     139.961  80.909   8.752  1.00 90.28      A16S
ATOM   6368  N2  G   A 306     139.918  80.595  10.060  1.00 90.28      A16S
ATOM   6369  N1  G   A 306     139.590  82.192   8.418  1.00 90.28      A16S
ATOM   6370  C6  G   A 306     139.555  82.707   7.125  1.00 90.28      A16S
ATOM   6371  O6  G   A 306     139.218  83.887   6.937  1.00 90.28      A16S
ATOM   6372  C5  G   A 306     139.945  81.734   6.167  1.00 90.28      A16S
ATOM   6373  N7  G   A 306     140.034  81.815   4.784  1.00 90.28      A16S
ATOM   6374  C8  G   A 306     140.453  80.634   4.418  1.00 90.28      A16S
ATOM   6375  C2* G   A 306     140.176  77.370   5.974  1.00 62.93      A16S
ATOM   6376  O2* G   A 306     140.907  76.449   6.760  1.00 62.93      A16S
ATOM   6377  C3* G   A 306     139.620  76.774   4.683  1.00 62.93      A16S
ATOM   6378  O3* G   A 306     139.152  75.439   4.852  1.00 62.93      A16S
ATOM   6379  P   C   A 307     137.567  75.158   4.962  1.00 54.34      A16S
ATOM   6380  O1P C   A 307     136.882  75.845   3.827  1.00 81.74      A16S
ATOM   6381  O2P C   A 307     137.370  73.698   5.155  1.00 81.74      A16S
ATOM   6382  O5* C   A 307     137.139  75.900   6.310  1.00 54.34      A16S
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ATOM   6383  C5* C   A 307     137.652  75.474   7.597  1.00 54.34      A16S
ATOM   6384  C4* C   A 307     137.167  76.392   8.702  1.00 54.34      A16S
ATOM   6385  O4* C   A 307     137.793  77.700   8.613  1.00 54.34      A16S
ATOM   6386  C1* C   A 307     136.900  78.687   9.098  1.00 54.34      A16S
ATOM   6387  N1  C   A 307     136.665  79.685   8.047  1.00 81.74      A16S
ATOM   6388  C6  C   A 307     136.817  79.372   6.726  1.00 81.74      A16S
ATOM   6389  C2  C   A 307     136.258  80.966   8.423  1.00 81.74      A16S
ATOM   6390  O2  C   A 307     136.173  81.239   9.630  1.00 81.74      A16S
ATOM   6391  N3  C   A 307     135.974  81.877   7.468  1.00 81.74      A16S
ATOM   6392  C4  C   A 307     136.103  81.554   6.180  1.00 81.74      A16S
ATOM   6393  N4  C   A 307     135.788  82.478   5.264  1.00 81.74      A16S
ATOM   6394  C5  C   A 307     136.553  80.267   5.769  1.00 81.74      A16S
ATOM   6395  C2* C   A 307     135.611  77.984   9.519  1.00 54.34      A16S
ATOM   6396  O2* C   A 307     135.660  77.739  10.906  1.00 54.34      A16S
ATOM   6397  C3* C   A 307     135.682  76.693   8.722  1.00 54.34      A16S
ATOM   6398  O3* C   A 307     134.968  75.655   9.353  1.00 54.34      A16S
ATOM   6399  P   C   A 308     133.697  75.020   8.615  1.00 49.63      A16S
ATOM   6400  O1P C   A 308     133.147  73.969   9.500  1.00 41.65      A16S
ATOM   6401  O2P C   A 308     134.120  74.664   7.235  1.00 41.65      A16S
ATOM   6402  O5* C   A 308     132.658  76.227   8.523  1.00 49.63      A16S
ATOM   6403  C5* C   A 308     131.932  76.666   9.685  1.00 49.63      A16S
ATOM   6404  C4* C   A 308     131.058  77.851   9.350  1.00 49.63      A16S
ATOM   6405  O4* C   A 308     131.892  78.980   8.994  1.00 49.63      A16S
ATOM   6406  C1* C   A 308     131.226  79.777   8.030  1.00 49.63      A16S
ATOM   6407  N1  C   A 308     132.042  79.839   6.808  1.00 41.65      A16S
ATOM   6408  C6  C   A 308     132.958  78.868   6.527  1.00 41.65      A16S
ATOM   6409  C2  C   A 308     131.845  80.900   5.918  1.00 41.65      A16S
ATOM   6410  O2  C   A 308     131.022  81.786   6.207  1.00 41.65      A16S
ATOM   6411  N3  C   A 308     132.551  80.934   4.768  1.00 41.65      A16S
ATOM   6412  C4  C   A 308     133.420  79.963   4.492  1.00 41.65      A16S
ATOM   6413  N4  C   A 308     134.074  80.014   3.335  1.00 41.65      A16S
ATOM   6414  C5  C   A 308     133.656  78.888   5.390  1.00 41.65      A16S
ATOM   6415  C2* C   A 308     129.868  79.136   7.752  1.00 49.63      A16S
ATOM   6416  O2* C   A 308     128.894  79.774   8.549  1.00 49.63      A16S
ATOM   6417  C3* C   A 308     130.119  77.694   8.166  1.00 49.63      A16S
ATOM   6418  O3* C   A 308     128.917  77.018   8.496  1.00 49.63      A16S
ATOM   6419  P   G   A 309     128.365  75.864   7.514  1.00 26.63      A16S
ATOM   6420  O1P G   A 309     127.424  75.046   8.335  1.00 42.48      A16S
ATOM   6421  O2P G   A 309     129.507  75.195   6.809  1.00 42.48      A16S
ATOM   6422  O5* G   A 309     127.540  76.647   6.403  1.00 26.63      A16S
ATOM   6423  C5* G   A 309     126.327  77.307   6.729  1.00 26.63      A16S
ATOM   6424  C4* G   A 309     125.893  78.152   5.573  1.00 26.63      A16S
ATOM   6425  O4* G   A 309     126.840  79.231   5.387  1.00 26.63      A16S
ATOM   6426  C1* G   A 309     126.985  79.511   4.009  1.00 26.63      A16S
ATOM   6427  N9  G   A 309     128.380  79.293   3.645  1.00 42.48      A16S
ATOM   6428  C4  G   A 309     128.975  79.605   2.443  1.00 42.48      A16S
ATOM   6429  N3  G   A 309     128.372  80.178   1.384  1.00 42.48      A16S
ATOM   6430  C2  G   A 309     129.216  80.394   0.392  1.00 42.48      A16S
ATOM   6431  N2  G   A 309     128.787  80.984  -0.724  1.00 42.48      A16S
ATOM   6432  N1  G   A 309     130.541  80.057   0.425  1.00 42.48      A16S
ATOM   6433  C6  G   A 309     131.180  79.457   1.497  1.00 42.48      A16S
ATOM   6434  O6  G   A 309     132.381  79.190   1.422  1.00 42.48      A16S
ATOM   6435  C5  G   A 309     130.289  79.233   2.579  1.00 42.48      A16S
ATOM   6436  N7  G   A 309     130.517  78.690   3.834  1.00 42.48      A16S
ATOM   6437  C8  G   A 309     129.358  78.744   4.429  1.00 42.48      A16S
ATOM   6438  C2* G   A 309     126.048  78.580   3.253  1.00 26.63      A16S
ATOM   6439  O2* G   A 309     124.834  79.248   3.027  1.00 26.63      A16S
ATOM   6440  C3* G   A 309     125.893  77.440   4.242  1.00 26.63      A16S
ATOM   6441  O3* G   A 309     124.735  76.671   4.011  1.00 26.63      A16S
ATOM   6442  P   G   A 310     124.816  75.482   2.946  1.00 26.91      A16S
ATOM   6443  O1P G   A 310     123.540  74.717   2.861  1.00 27.59      A16S
ATOM   6444  O2P G   A 310     126.096  74.766   3.212  1.00 27.59      A16S
ATOM   6445  O5* G   A 310     124.955  76.272   1.583  1.00 26.91      A16S
ATOM   6446  C5* G   A 310     123.862  77.014   1.090  1.00 26.91      A16S
ATOM   6447  C4* G   A 310     124.110  77.370  -0.330  1.00 26.91      A16S
ATOM   6448  O4* G   A 310     125.220  78.292  -0.398  1.00 26.91      A16S
ATOM   6449  C1* G   A 310     125.900  78.107  -1.628  1.00 26.91      A16S
ATOM   6450  N9  G   A 310     127.306  77.822  -1.365  1.00 27.59      A16S
ATOM   6451  C4  G   A 310     128.306  77.862  -2.295  1.00 27.59      A16S
ATOM   6452  N3  G   A 310     128.155  78.170  -3.594  1.00 27.59      A16S
ATOM   6453  C2  G   A 310     129.290  78.091  -4.253  1.00 27.59      A16S
ATOM   6454  N2  G   A 310     129.310  78.322  -5.583  1.00 27.59      A16S
ATOM   6455  N1  G   A 310     130.481  77.765  -3.669  1.00 27.59      A16S
ATOM   6456  C6  G   A 310     130.651  77.448  -2.332  1.00 27.59      A16S
ATOM   6457  O6  G   A 310     131.764  77.154  -1.913  1.00 27.59      A16S
ATOM   6458  C5  G   A 310     129.445  77.510  -1.626  1.00 27.59      A16S
ATOM   6459  N7  G   A 310     129.173  77.258  -0.292  1.00 27.59      A16S
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ATOM   6460  C8  G   A 310     127.890  77.456  -0.183  1.00 27.59      A16S
ATOM   6461  C2* G   A 310     125.235  76.938  -2.355  1.00 26.91      A16S
ATOM   6462  O2* G   A 310     124.287  77.396  -3.306  1.00 26.91      A16S
ATOM   6463  C3* G   A 310     124.561  76.223  -1.207  1.00 26.91      A16S
ATOM   6464  O3* G   A 310     123.516  75.418  -1.666  1.00 26.91      A16S
ATOM   6465  P   C   A 311     123.790  73.863  -1.883  1.00 36.60      A16S
ATOM   6466  O1P C   A 311     122.475  73.215  -2.106  1.00 19.07      A16S
ATOM   6467  O2P C   A 311     124.643  73.436  -0.753  1.00 19.07      A16S
ATOM   6468  O5* C   A 311     124.638  73.801  -3.233  1.00 36.60      A16S
ATOM   6469  C5* C   A 311     124.023  74.175  -4.474  1.00 36.60      A16S
ATOM   6470  C4* C   A 311     125.043  74.388  -5.573  1.00 36.60      A16S
ATOM   6471  O4* C   A 311     126.001  75.408  -5.204  1.00 36.60      A16S
ATOM   6472  C1* C   A 311     127.229  75.157  -5.858  1.00 36.60      A16S
ATOM   6473  N1  C   A 311     128.254  74.878  -4.851  1.00 19.07      A16S
ATOM   6474  C6  C   A 311     127.926  74.673  -3.549  1.00 19.07      A16S
ATOM   6475  C2  C   A 311     129.572  74.808  -5.254  1.00 19.07      A16S
ATOM   6476  O2  C   A 311     129.838  75.016  -6.447  1.00 19.07      A16S
ATOM   6477  N3  C   A 311     130.527  74.518  -4.350  1.00 19.07      A16S
ATOM   6478  C4  C   A 311     130.193  74.316  -3.085  1.00 19.07      A16S
ATOM   6479  N4  C   A 311     131.154  74.040  -2.223  1.00 19.07      A16S
ATOM   6480  C5  C   A 311     128.858  74.391  -2.645  1.00 19.07      A16S
ATOM   6481  C2* C   A 311     127.037  73.920  -6.727  1.00 36.60      A16S
ATOM   6482  O2* C   A 311     126.677  74.334  -8.030  1.00 36.60      A16S
ATOM   6483  C3* C   A 311     125.905  73.219  -5.999  1.00 36.60      A16S
ATOM   6484  O3* C   A 311     125.220  72.346  -6.867  1.00 36.60      A16S
ATOM   6485  P   C   A 312     125.488  70.771  -6.762  1.00 30.59      A16S
ATOM   6486  O1P C   A 312     124.438  70.107  -7.589  1.00 22.34      A16S
ATOM   6487  O2P C   A 312     125.643  70.418  -5.330  1.00 22.34      A16S
ATOM   6488  O5* C   A 312     126.901  70.577  -7.453  1.00 30.59      A16S
ATOM   6489  C5* C   A 312     127.064  70.897  -8.825  1.00 30.59      A16S
ATOM   6490  C4* C   A 312     128.510  70.815  -9.207  1.00 30.59      A16S
ATOM   6491  O4* C   A 312     129.285  71.759  -8.433  1.00 30.59      A16S
ATOM   6492  C1* C   A 312     130.562  71.230  -8.199  1.00 30.59      A16S
ATOM   6493  N1  C   A 312     130.728  71.099  -6.759  1.00 22.34      A16S
ATOM   6494  C6  C   A 312     129.660  71.185  -5.916  1.00 22.34      A16S
ATOM   6495  C2  C   A 312     132.004  70.873  -6.260  1.00 22.34      A16S
ATOM   6496  O2  C   A 312     132.962  70.804  -7.064  1.00 22.34      A16S
ATOM   6497  N3  C   A 312     132.173  70.730  -4.925  1.00 22.34      A16S
ATOM   6498  C4  C   A 312     131.122  70.805  -4.115  1.00 22.34      A16S
ATOM   6499  N4  C   A 312     131.331  70.645  -2.818  1.00 22.34      A16S
ATOM   6500  C5  C   A 312     129.810  71.045  -4.602  1.00 22.34      A16S
ATOM   6501  C2* C   A 312     130.642  69.875  -8.901  1.00 30.59      A16S
ATOM   6502  O2* C   A 312     131.182  70.065 -10.192  1.00 30.59      A16S
ATOM   6503  C3* C   A 312     129.180  69.482  -8.969  1.00 30.59      A16S
ATOM   6504  O3* C   A 312     128.922  68.635 -10.064  1.00 30.59      A16S
ATOM   6505  P   A   A 313     128.755  67.063  -9.825  1.00 24.13      A16S
ATOM   6506  O1P A   A 313     128.221  66.468 -11.097  1.00 21.65      A16S
ATOM   6507  O2P A   A 313     128.020  66.863  -8.553  1.00 21.65      A16S
ATOM   6508  O5* A   A 313     130.245  66.560  -9.600  1.00 24.13      A16S
ATOM   6509  C5* A   A 313     131.206  66.690 -10.636  1.00 24.13      A16S
ATOM   6510  C4* A   A 313     132.571  66.465 -10.082  1.00 24.13      A16S
ATOM   6511  O4* A   A 313     132.870  67.494  -9.116  1.00 24.13      A16S
ATOM   6512  C1* A   A 313     133.672  66.965  -8.085  1.00 24.13      A16S
ATOM   6513  N9  A   A 313     132.956  67.108  -6.827  1.00 21.65      A16S
ATOM   6514  C4  A   A 313     133.519  66.937  -5.599  1.00 21.65      A16S
ATOM   6515  N3  A   A 313     134.784  66.601  -5.340  1.00 21.65      A16S
ATOM   6516  C2  A   A 313     134.995  66.566  -4.025  1.00 21.65      A16S
ATOM   6517  N1  A   A 313     134.141  66.797  -3.021  1.00 21.65      A16S
ATOM   6518  C6  A   A 313     132.868  67.109  -3.321  1.00 21.65      A16S
ATOM   6519  N6  A   A 313     132.017  67.297  -2.323  1.00 21.65      A16S
ATOM   6520  C5  A   A 313     132.521  67.201  -4.681  1.00 21.65      A16S
ATOM   6521  N7  A   A 313     131.333  67.513  -5.326  1.00 21.65      A16S
ATOM   6522  C8  A   A 313     131.642  67.438  -6.597  1.00 21.65      A16S
ATOM   6523  C2* A   A 313     133.932  65.506  -8.418  1.00 24.13      A16S
ATOM   6524  O2* A   A 313     135.139  65.448  -9.140  1.00 24.13      A16S
ATOM   6525  C3* A   A 313     132.743  65.185  -9.305  1.00 24.13      A16S
ATOM   6526  O3* A   A 313     133.003  64.111 -10.166  1.00 24.13      A16S
ATOM   6527  P   C   A 314     132.520  62.640  -9.752  1.00 33.03      A16S
ATOM   6528  O1P C   A 314     132.669  61.778 -10.959  1.00 25.40      A16S
ATOM   6529  O2P C   A 314     131.190  62.745  -9.077  1.00 25.40      A16S
ATOM   6530  O5* C   A 314     133.593  62.188  -8.672  1.00 33.03      A16S
ATOM   6531  C5* C   A 314     134.970  62.129  -9.004  1.00 33.03      A16S
ATOM   6532  C4* C   A 314     135.779  61.931  -7.760  1.00 33.03      A16S
ATOM   6533  O4* C   A 314     135.654  63.097  -6.914  1.00 33.03      A16S
ATOM   6534  C1* C   A 314     135.744  62.707  -5.561  1.00 33.03      A16S
ATOM   6535  N1  C   A 314     134.522  63.129  -4.858  1.00 25.40      A16S
ATOM   6536  C6  C   A 314     133.366  63.363  -5.539  1.00 25.40      A16S
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ATOM   6537  C2  C   A 314     134.560  63.276  -3.465  1.00 25.40      A16S
ATOM   6538  O2  C   A 314     135.617  63.071  -2.868  1.00 25.40      A16S
ATOM   6539  N3  C   A 314     133.447  63.636  -2.807  1.00 25.40      A16S
ATOM   6540  C4  C   A 314     132.322  63.857  -3.481  1.00 25.40      A16S
ATOM   6541  N4  C   A 314     131.238  64.223  -2.785  1.00 25.40      A16S
ATOM   6542  C5  C   A 314     132.252  63.720  -4.898  1.00 25.40      A16S
ATOM   6543  C2* C   A 314     135.951  61.192  -5.524  1.00 33.03      A16S
ATOM   6544  O2* C   A 314     137.340  60.941  -5.442  1.00 33.03      A16S
ATOM   6545  C3* C   A 314     135.384  60.762  -6.871  1.00 33.03      A16S
ATOM   6546  O3* C   A 314     135.973  59.542  -7.330  1.00 33.03      A16S
ATOM   6547  P   A   A 315     135.343  58.127  -6.895  1.00 34.57      A16S
ATOM   6548  O1P A   A 315     136.147  57.111  -7.611  1.00 35.11      A16S
ATOM   6549  O2P A   A 315     133.878  58.160  -7.095  1.00 35.11      A16S
ATOM   6550  O5* A   A 315     135.654  58.018  -5.336  1.00 34.57      A16S
ATOM   6551  C5* A   A 315     137.008  57.994  -4.872  1.00 34.57      A16S
ATOM   6552  C4* A   A 315     137.062  57.721  -3.387  1.00 34.57      A16S
ATOM   6553  O4* A   A 315     136.315  58.750  -2.696  1.00 34.57      A16S
ATOM   6554  C1* A   A 315     135.377  58.152  -1.841  1.00 34.57      A16S
ATOM   6555  N9  A   A 315     134.199  59.008  -1.796  1.00 35.11      A16S
ATOM   6556  C4  A   A 315     133.806  59.769  -0.729  1.00 35.11      A16S
ATOM   6557  N3  A   A 315     134.413  59.871   0.463  1.00 35.11      A16S
ATOM   6558  C2  A   A 315     133.744  60.697   1.257  1.00 35.11      A16S
ATOM   6559  N1  A   A 315     132.621  61.388   1.011  1.00 35.11      A16S
ATOM   6560  C6  A   A 315     132.044  61.266  -0.206  1.00 35.11      A16S
ATOM   6561  N6  A   A 315     130.932  61.960  -0.469  1.00 35.11      A16S
ATOM   6562  C5  A   A 315     132.654  60.413  -1.131  1.00 35.11      A16S
ATOM   6563  N7  A   A 315     132.322  60.063  -2.426  1.00 35.11      A16S
ATOM   6564  C8  A   A 315     133.269  59.229  -2.775  1.00 35.11      A16S
ATOM   6565  C2* A   A 315     135.133  56.747  -2.391  1.00 34.57      A16S
ATOM   6566  O2* A   A 315     134.723  55.871  -1.366  1.00 34.57      A16S
ATOM   6567  C3* A   A 315     136.517  56.375  -2.903  1.00 34.57      A16S
ATOM   6568  O3* A   A 315     137.299  55.892  -1.783  1.00 34.57      A16S
ATOM   6569  P   G   A 316     137.886  54.378  -1.771  1.00 53.63      A16S
ATOM   6570  O1P G   A 316     137.031  53.513  -2.624  1.00 38.47      A16S
ATOM   6571  O2P G   A 316     138.139  53.998  -0.354  1.00 38.47      A16S
ATOM   6572  O5* G   A 316     139.314  54.506  -2.461  1.00 53.63      A16S
ATOM   6573  C5* G   A 316     140.324  55.347  -1.886  1.00 53.63      A16S
ATOM   6574  C4* G   A 316     141.645  55.117  -2.569  1.00 53.63      A16S
ATOM   6575  O4* G   A 316     142.193  53.836  -2.173  1.00 53.63      A16S
ATOM   6576  C1* G   A 316     142.824  53.217  -3.282  1.00 53.63      A16S
ATOM   6577  N9  G   A 316     142.087  51.991  -3.576  1.00 38.47      A16S
ATOM   6578  C4  G   A 316     142.350  51.066  -4.549  1.00 38.47      A16S
ATOM   6579  N3  G   A 316     143.380  51.095  -5.408  1.00 38.47      A16S
ATOM   6580  C2  G   A 316     143.354  50.065  -6.238  1.00 38.47      A16S
ATOM   6581  N2  G   A 316     144.318  49.927  -7.156  1.00 38.47      A16S
ATOM   6582  N1  G   A 316     142.382  49.091  -6.225  1.00 38.47      A16S
ATOM   6583  C6  G   A 316     141.310  49.048  -5.341  1.00 38.47      A16S
ATOM   6584  O6  G   A 316     140.477  48.127  -5.405  1.00 38.47      A16S
ATOM   6585  C5  G   A 316     141.339  50.133  -4.450  1.00 38.47      A16S
ATOM   6586  N7  G   A 316     140.477  50.450  -3.420  1.00 38.47      A16S
ATOM   6587  C8  G   A 316     140.961  51.554  -2.929  1.00 38.47      A16S
ATOM   6588  C2* G   A 316     142.802  54.227  -4.432  1.00 53.63      A16S
ATOM   6589  O2* G   A 316     144.004  54.972  -4.392  1.00 53.63      A16S
ATOM   6590  C3* G   A 316     141.583  55.072  -4.081  1.00 53.63      A16S
ATOM   6591  O3* G   A 316     141.629  56.384  -4.622  1.00 53.63      A16S
ATOM   6592  P   G   A 317     140.662  56.773  -5.846  1.00 41.71      A16S
ATOM   6593  O1P G   A 317     140.629  58.265  -5.952  1.00 44.63      A16S
ATOM   6594  O2P G   A 317     139.389  56.010  -5.700  1.00 44.63      A16S
ATOM   6595  O5* G   A 317     141.408  56.198  -7.125  1.00 41.71      A16S
ATOM   6596  C5* G   A 317     142.633  56.775  -7.569  1.00 41.71      A16S
ATOM   6597  C4* G   A 317     143.176  55.991  -8.727  1.00 41.71      A16S
ATOM   6598  O4* G   A 317     143.623  54.683  -8.284  1.00 41.71      A16S
ATOM   6599  C1* G   A 317     143.334  53.715  -9.281  1.00 41.71      A16S
ATOM   6600  N9  G   A 317     142.347  52.792  -8.737  1.00 44.63      A16S
ATOM   6601  C4  G   A 317     141.869  51.648  -9.327  1.00 44.63      A16S
ATOM   6602  N3  G   A 317     142.243  51.154 -10.522  1.00 44.63      A16S
ATOM   6603  C2  G   A 317     141.590  50.045 -10.819  1.00 44.63      A16S
ATOM   6604  N2  G   A 317     141.836  49.408 -11.972  1.00 44.63      A16S
ATOM   6605  N1  G   A 317     140.648  49.480 -10.009  1.00 44.63      A16S
ATOM   6606  C6  G   A 317     140.248  49.982  -8.778  1.00 44.63      A16S
ATOM   6607  O6  G   A 317     139.373  49.409  -8.129  1.00 44.63      A16S
ATOM   6608  C5  G   A 317     140.939  51.149  -8.449  1.00 44.63      A16S
ATOM   6609  N7  G   A 317     140.841  51.950  -7.325  1.00 44.63      A16S
ATOM   6610  C8  G   A 317     141.695  52.909  -7.539  1.00 44.63      A16S
ATOM   6611  C2* G   A 317     142.757  54.462 -10.479  1.00 41.71      A16S
ATOM   6612  O2* G   A 317     143.807  54.782 -11.372  1.00 41.71      A16S
ATOM   6613  C3* G   A 317     142.159  55.686  -9.803  1.00 41.71      A16S
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ATOM   6614  O3*  G   A 317     141.953  56.777 -10.671  1.00 41.71      A16S
ATOM   6615  P    G   A 318     140.471  57.073 -11.204  1.00 50.37      A16S
ATOM   6616  O1P  G   A 318     140.527  58.344 -11.980  1.00 50.89      A16S
ATOM   6617  O2P  G   A 318     139.478  56.925 -10.091  1.00 50.89      A16S
ATOM   6618  O5*  G   A 318     140.212  55.888 -12.225  1.00 50.37      A16S
ATOM   6619  C5*  G   A 318     141.001  55.780 -13.400  1.00 50.37      A16S
ATOM   6620  C4*  G   A 318     140.569  54.593 -14.201  1.00 50.37      A16S
ATOM   6621  O4*  G   A 318     140.903  53.380 -13.491  1.00 50.37      A16S
ATOM   6622  C1*  G   A 318     139.987  52.371 -13.851  1.00 50.37      A16S
ATOM   6623  N9   G   A 318     139.345  51.852 -12.655  1.00 50.89      A16S
ATOM   6624  C4   G   A 318     138.624  50.696 -12.601  1.00 50.89      A16S
ATOM   6625  N3   G   A 318     138.438  49.842 -13.622  1.00 50.89      A16S
ATOM   6626  C2   G   A 318     137.679  48.832 -13.284  1.00 50.89      A16S
ATOM   6627  N2   G   A 318     137.419  47.888 -14.184  1.00 50.89      A16S
ATOM   6628  N1   G   A 318     137.128  48.675 -12.040  1.00 50.89      A16S
ATOM   6629  C6   G   A 318     137.307  49.548 -10.974  1.00 50.89      A16S
ATOM   6630  O6   G   A 318     136.760  49.325  -9.895  1.00 50.89      A16S
ATOM   6631  C5   G   A 318     138.136  50.628 -11.323  1.00 50.89      A16S
ATOM   6632  N7   G   A 318     138.574  51.708 -10.572  1.00 50.89      A16S
ATOM   6633  C8   G   A 318     139.296  52.405 -11.404  1.00 50.89      A16S
ATOM   6634  C2*  G   A 318     138.947  52.987 -14.783  1.00 50.37      A16S
ATOM   6635  O2*  G   A 318     139.294  52.706 -16.122  1.00 50.37      A16S
ATOM   6636  C3*  G   A 318     139.083  54.461 -14.457  1.00 50.37      A16S
ATOM   6637  O3*  G   A 318     138.640  55.270 -15.524  1.00 50.37      A16S
ATOM   6638  P    G   A 319     137.132  55.810 -15.515  1.00 49.92      A16S
ATOM   6639  O1P  G   A 319     137.010  56.859 -16.567  1.00 53.56      A16S
ATOM   6640  O2P  G   A 319     136.826  56.139 -14.101  1.00 53.56      A16S
ATOM   6641  O5*  G   A 319     136.244  54.552 -15.937  1.00 49.92      A16S
ATOM   6642  C5*  G   A 319     136.298  54.052 -17.278  1.00 49.92      A16S
ATOM   6643  C4*  G   A 319     135.729  52.655 -17.365  1.00 49.92      A16S
ATOM   6644  O4*  G   A 319     136.346  51.785 -16.378  1.00 49.92      A16S
ATOM   6645  C1*  G   A 319     135.435  50.760 -16.008  1.00 49.92      A16S
ATOM   6646  N9   G   A 319     135.159  50.849 -14.576  1.00 53.56      A16S
ATOM   6647  C4   G   A 319     134.488  49.920 -13.824  1.00 53.56      A16S
ATOM   6648  N3   G   A 319     133.977  48.766 -14.275  1.00 53.56      A16S
ATOM   6649  C2   G   A 319     133.393  48.079 -13.314  1.00 53.56      A16S
ATOM   6650  N2   G   A 319     132.835  46.894 -13.591  1.00 53.56      A16S
ATOM   6651  N1   G   A 319     133.313  48.498 -12.015  1.00 53.56      A16S
ATOM   6652  C6   G   A 319     133.827  49.691 -11.533  1.00 53.56      A16S
ATOM   6653  O6   G   A 319     133.691  49.984 -10.342  1.00 53.56      A16S
ATOM   6654  C5   G   A 319     134.461  50.429 -12.549  1.00 53.56      A16S
ATOM   6655  N7   G   A 319     135.105  51.652 -12.494  1.00 53.56      A16S
ATOM   6656  C8   G   A 319     135.502  51.863 -13.718  1.00 53.56      A16S
ATOM   6657  C2*  G   A 319     134.164  50.988 -16.814  1.00 49.92      A16S
ATOM   6658  O2*  G   A 319     134.249  50.215 -17.993  1.00 49.92      A16S
ATOM   6659  C3*  G   A 319     134.253  52.478 -17.100  1.00 49.92      A16S
ATOM   6660  O3*  G   A 319     133.450  52.847 -18.198  1.00 49.92      A16S
ATOM   6661  P    C   A 320     131.963  53.389 -17.922  1.00 42.59      A16S
ATOM   6662  O1P  C   A 320     131.343  53.723 -19.239  1.00 42.85      A16S
ATOM   6663  O2P  C   A 320     131.994  54.409 -16.829  1.00 42.85      A16S
ATOM   6664  O5*  C   A 320     131.222  52.119 -17.320  1.00 42.59      A16S
ATOM   6665  C5*  C   A 320     131.139  50.917 -18.079  1.00 42.59      A16S
ATOM   6666  C4*  C   A 320     130.286  49.914 -17.367  1.00 42.59      A16S
ATOM   6667  O4*  C   A 320     130.947  49.470 -16.173  1.00 42.59      A16S
ATOM   6668  C1*  C   A 320     129.976  49.058 -15.244  1.00 42.59      A16S
ATOM   6669  N1   C   A 320     130.226  49.724 -13.972  1.00 42.85      A16S
ATOM   6670  C6   C   A 320     130.809  50.955 -13.919  1.00 42.85      A16S
ATOM   6671  C2   C   A 320     129.825  49.085 -12.811  1.00 42.85      A16S
ATOM   6672  O2   C   A 320     129.354  47.932 -12.893  1.00 42.85      A16S
ATOM   6673  N3   C   A 320     129.962  49.722 -11.630  1.00 42.85      A16S
ATOM   6674  C4   C   A 320     130.493  50.939 -11.593  1.00 42.85      A16S
ATOM   6675  N4   C   A 320     130.570  51.545 -10.421  1.00 42.85      A16S
ATOM   6676  C5   C   A 320     130.959  51.591 -12.759  1.00 42.85      A16S
ATOM   6677  C2*  C   A 320     128.596  49.400 -15.803  1.00 42.59      A16S
ATOM   6678  O2*  C   A 320     128.014  48.245 -16.361  1.00 42.59      A16S
ATOM   6679  C3*  C   A 320     128.937  50.400 -16.886  1.00 42.59      A16S
ATOM   6680  O3*  C   A 320     127.994  50.309 -17.926  1.00 42.59      A16S
ATOM   6681  P    A   A 321     126.848  51.408 -18.035  1.00 27.53      A16S
ATOM   6682  O1P  A   A 321     126.253  51.317 -19.399  1.00 45.53      A16S
ATOM   6683  O2P  A   A 321     127.390  52.698 -17.552  1.00 45.53      A16S
ATOM   6684  O5*  A   A 321     125.757  50.916 -17.000  1.00 27.53      A16S
ATOM   6685  C5*  A   A 321     124.743  50.001 -17.411  1.00 27.53      A16S
ATOM   6686  C4*  A   A 321     124.535  48.959 -16.352  1.00 27.53      A16S
ATOM   6687  O4*  A   A 321     125.687  48.950 -15.478  1.00 27.53      A16S
ATOM   6688  C1*  A   A 321     125.289  48.561 -14.188  1.00 27.53      A16S
ATOM   6689  N9   A   A 321     125.767  49.542 -13.216  1.00 45.53      A16S
ATOM   6690  C4   A   A 321     125.688  49.364 -11.860  1.00 45.53      A16S
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ATOM   6691  N3  A   A 321     125.143  48.321 -11.212  1.00 45.53      A16S
ATOM   6692  C2  A   A 321     125.258  48.475  -9.901  1.00 45.53      A16S
ATOM   6693  N1  A   A 321     125.821  49.467  -9.217  1.00 45.53      A16S
ATOM   6694  C6  A   A 321     126.371  50.490  -9.898  1.00 45.53      A16S
ATOM   6695  N6  A   A 321     126.963  51.452  -9.209  1.00 45.53      A16S
ATOM   6696  C5  A   A 321     126.295  50.462 -11.297  1.00 45.53      A16S
ATOM   6697  N7  A   A 321     126.729  51.339 -12.280  1.00 45.53      A16S
ATOM   6698  C8  A   A 321     126.386  50.750 -13.399  1.00 45.53      A16S
ATOM   6699  C2* A   A 321     123.779  48.338 -14.204  1.00 27.53      A16S
ATOM   6700  O2* A   A 321     123.582  46.959 -14.417  1.00 27.53      A16S
ATOM   6701  C3* A   A 321     123.359  49.158 -15.413  1.00 27.53      A16S
ATOM   6702  O3* A   A 321     122.170  48.667 -16.019  1.00 27.53      A16S
ATOM   6703  P   C   A 322     120.734  49.032 -15.389  1.00 23.18      A16S
ATOM   6704  O1P C   A 322     119.721  48.471 -16.320  1.00 44.58      A16S
ATOM   6705  O2P C   A 322     120.667  50.467 -15.029  1.00 44.58      A16S
ATOM   6706  O5* C   A 322     120.708  48.186 -14.038  1.00 23.18      A16S
ATOM   6707  C5* C   A 322     120.726  46.743 -14.074  1.00 23.18      A16S
ATOM   6708  C4* C   A 322     120.633  46.182 -12.678  1.00 23.18      A16S
ATOM   6709  O4* C   A 322     121.817  46.532 -11.932  1.00 23.18      A16S
ATOM   6710  C1* C   A 322     121.473  46.762 -10.582  1.00 23.18      A16S
ATOM   6711  N1  C   A 322     121.867  48.135 -10.241  1.00 44.58      A16S
ATOM   6712  C6  C   A 322     122.029  49.072 -11.217  1.00 44.58      A16S
ATOM   6713  C2  C   A 322     122.082  48.468  -8.898  1.00 44.58      A16S
ATOM   6714  O2  C   A 322     121.909  47.600  -8.019  1.00 44.58      A16S
ATOM   6715  N3  C   A 322     122.468  49.721  -8.591  1.00 44.58      A16S
ATOM   6716  C4  C   A 322     122.631  50.621  -9.556  1.00 44.58      A16S
ATOM   6717  N4  C   A 322     123.020  51.845  -9.210  1.00 44.58      A16S
ATOM   6718  C5  C   A 322     122.406  50.311 -10.921  1.00 44.58      A16S
ATOM   6719  C2* C   A 322     119.978  46.502 -10.421  1.00 23.18      A16S
ATOM   6720  O2* C   A 322     119.798  45.180  -9.978  1.00 23.18      A16S
ATOM   6721  C3* C   A 322     119.484  46.706 -11.840  1.00 23.18      A16S
ATOM   6722  O3* C   A 322     118.302  45.986 -12.105  1.00 23.18      A16S
ATOM   6723  P   U   A 323     116.910  46.761 -12.135  1.00 25.36      A16S
ATOM   6724  O1P U   A 323     115.855  45.820 -12.606  1.00 51.26      A16S
ATOM   6725  O2P U   A 323     117.152  48.026 -12.881  1.00 51.26      A16S
ATOM   6726  O5* U   A 323     116.675  47.106 -10.598  1.00 25.36      A16S
ATOM   6727  C5* U   A 323     116.724  46.064  -9.618  1.00 25.36      A16S
ATOM   6728  C4* U   A 323     116.618  46.628  -8.228  1.00 25.36      A16S
ATOM   6729  O4* U   A 323     117.885  47.158  -7.787  1.00 25.36      A16S
ATOM   6730  C1* U   A 323     117.666  48.291  -6.965  1.00 25.36      A16S
ATOM   6731  N1  U   A 323     118.321  49.448  -7.596  1.00 51.26      A16S
ATOM   6732  C6  U   A 323     118.451  49.538  -8.957  1.00 51.26      A16S
ATOM   6733  C2  U   A 323     118.782  50.450  -6.780  1.00 51.26      A16S
ATOM   6734  O2  U   A 323     118.729  50.388  -5.573  1.00 51.26      A16S
ATOM   6735  N3  U   A 323     119.316  51.527  -7.430  1.00 51.26      A16S
ATOM   6736  C4  U   A 323     119.451  51.691  -8.784  1.00 51.26      A16S
ATOM   6737  O4  U   A 323     119.879  52.756  -9.229  1.00 51.26      A16S
ATOM   6738  C5  U   A 323     118.988  50.594  -9.561  1.00 51.26      A16S
ATOM   6739  C2* U   A 323     116.152  48.473  -6.826  1.00 25.36      A16S
ATOM   6740  O2* U   A 323     115.709  47.865  -5.634  1.00 25.36      A16S
ATOM   6741  C3* U   A 323     115.644  47.765  -8.071  1.00 25.36      A16S
ATOM   6742  O3* U   A 323     114.351  47.258  -7.929  1.00 25.36      A16S
ATOM   6743  P   G   A 324     113.113  48.163  -8.346  1.00 25.77      A16S
ATOM   6744  O1P G   A 324     111.911  47.300  -8.519  1.00 50.16      A16S
ATOM   6745  O2P G   A 324     113.556  49.054  -9.458  1.00 50.16      A16S
ATOM   6746  O5* G   A 324     112.890  49.027  -7.041  1.00 25.77      A16S
ATOM   6747  C5* G   A 324     112.280  50.306  -7.121  1.00 25.77      A16S
ATOM   6748  C4* G   A 324     112.975  51.256  -6.193  1.00 25.77      A16S
ATOM   6749  O4* G   A 324     114.404  51.164  -6.397  1.00 25.77      A16S
ATOM   6750  C1* G   A 324     114.972  52.456  -6.401  1.00 25.77      A16S
ATOM   6751  N9  G   A 324     115.475  52.687  -7.752  1.00 50.16      A16S
ATOM   6752  C4  G   A 324     116.403  53.616  -8.154  1.00 50.16      A16S
ATOM   6753  N3  G   A 324     117.052  54.484  -7.359  1.00 50.16      A16S
ATOM   6754  C2  G   A 324     117.844  55.278  -8.045  1.00 50.16      A16S
ATOM   6755  N2  G   A 324     118.563  56.217  -7.414  1.00 50.16      A16S
ATOM   6756  N1  G   A 324     117.991  55.217  -9.398  1.00 50.16      A16S
ATOM   6757  C6  G   A 324     117.338  54.325 -10.233  1.00 50.16      A16S
ATOM   6758  O6  G   A 324     117.544  54.350 -11.451  1.00 50.16      A16S
ATOM   6759  C5  G   A 324     116.489  53.477  -9.518  1.00 50.16      A16S
ATOM   6760  N7  G   A 324     115.658  52.463  -9.967  1.00 50.16      A16S
ATOM   6761  C8  G   A 324     115.083  52.019  -8.887  1.00 50.16      A16S
ATOM   6762  C2* G   A 324     113.864  53.435  -5.987  1.00 25.77      A16S
ATOM   6763  O2* G   A 324     113.877  53.590  -4.584  1.00 25.77      A16S
ATOM   6764  C3* G   A 324     112.616  52.700  -6.452  1.00 25.77      A16S
ATOM   6765  O3* G   A 324     111.437  53.018  -5.728  1.00 25.77      A16S
ATOM   6766  P   A   A 325     110.130  53.523  -6.518  1.00 38.17      A16S
ATOM   6767  O1P A   A 325     110.005  52.750  -7.783  1.00 41.90      A16S
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ATOM   6768  O2P A   A 325     108.993  53.541  -5.561  1.00 41.90      A16S
ATOM   6769  O5* A   A 325     110.510  55.032  -6.871  1.00 38.17      A16S
ATOM   6770  C5* A   A 325     109.763  55.804  -7.832  1.00 38.17      A16S
ATOM   6771  C4* A   A 325     110.294  57.216  -7.882  1.00 38.17      A16S
ATOM   6772  O4* A   A 325     110.054  57.866  -6.612  1.00 38.17      A16S
ATOM   6773  C1* A   A 325     111.096  58.786  -6.342  1.00 38.17      A16S
ATOM   6774  N9  A   A 325     111.644  58.519  -5.010  1.00 41.90      A16S
ATOM   6775  C4  A   A 325     112.202  59.458  -4.179  1.00 41.90      A16S
ATOM   6776  N3  A   A 325     112.395  60.756  -4.441  1.00 41.90      A16S
ATOM   6777  C2  A   A 325     112.926  61.373  -3.384  1.00 41.90      A16S
ATOM   6778  N1  A   A 325     113.260  60.877  -2.188  1.00 41.90      A16S
ATOM   6779  C6  A   A 325     113.060  59.571  -1.960  1.00 41.90      A16S
ATOM   6780  N6  A   A 325     113.399  59.091  -0.768  1.00 41.90      A16S
ATOM   6781  C5  A   A 325     112.503  58.799  -3.004  1.00 41.90      A16S
ATOM   6782  N7  A   A 325     112.179  57.455  -3.104  1.00 41.90      A16S
ATOM   6783  C8  A   A 325     111.684  57.340  -4.315  1.00 41.90      A16S
ATOM   6784  C2* A   A 325     112.101  58.705  -7.487  1.00 38.17      A16S
ATOM   6785  O2* A   A 325     111.839  59.717  -8.441  1.00 38.17      A16S
ATOM   6786  C3* A   A 325     111.795  57.339  -8.069  1.00 38.17      A16S
ATOM   6787  O3* A   A 325     112.191  57.281  -9.422  1.00 38.17      A16S
ATOM   6788  P   G   A 326     113.578  56.564  -9.798  1.00 30.90      A16S
ATOM   6789  O1P G   A 326     113.719  56.662 -11.272  1.00 57.74      A16S
ATOM   6790  O2P G   A 326     113.597  55.226  -9.147  1.00 57.74      A16S
ATOM   6791  O5* G   A 326     114.704  57.476  -9.133  1.00 30.90      A16S
ATOM   6792  C5* G   A 326     114.881  58.846  -9.542  1.00 30.90      A16S
ATOM   6793  C4* G   A 326     115.705  59.598  -8.525  1.00 30.90      A16S
ATOM   6794  O4* G   A 326     115.041  59.533  -7.242  1.00 30.90      A16S
ATOM   6795  C1* G   A 326     116.005  59.466  -6.216  1.00 30.90      A16S
ATOM   6796  N9  G   A 326     115.687  58.330  -5.354  1.00 57.74      A16S
ATOM   6797  C4  G   A 326     115.998  58.210  -4.025  1.00 57.74      A16S
ATOM   6798  N3  G   A 326     116.644  59.124  -3.283  1.00 57.74      A16S
ATOM   6799  C2  G   A 326     116.809  58.721  -2.046  1.00 57.74      A16S
ATOM   6800  N2  G   A 326     117.422  59.516  -1.172  1.00 57.74      A16S
ATOM   6801  N1  G   A 326     116.382  57.513  -1.570  1.00 57.74      A16S
ATOM   6802  C6  G   A 326     115.709  56.555  -2.312  1.00 57.74      A16S
ATOM   6803  O6  G   A 326     115.359  55.491  -1.778  1.00 57.74      A16S
ATOM   6804  C5  G   A 326     115.521  56.978  -3.647  1.00 57.74      A16S
ATOM   6805  N7  G   A 326     114.911  56.339  -4.712  1.00 57.74      A16S
ATOM   6806  C8  G   A 326     115.030  57.178  -5.701  1.00 57.74      A16S
ATOM   6807  C2* G   A 326     117.403  59.469  -6.854  1.00 30.90      A16S
ATOM   6808  O2* G   A 326     117.948  60.767  -6.783  1.00 30.90      A16S
ATOM   6809  C3* G   A 326     117.113  59.066  -8.296  1.00 30.90      A16S
ATOM   6810  O3* G   A 326     118.010  59.731  -9.197  1.00 30.90      A16S
ATOM   6811  P   A   A 327     119.061  58.884 -10.077  1.00 42.05      A16S
ATOM   6812  O1P A   A 327     119.779  59.857 -10.919  1.00 31.53      A16S
ATOM   6813  O2P A   A 327     118.368  57.735 -10.723  1.00 31.53      A16S
ATOM   6814  O5* A   A 327     120.118  58.358  -9.010  1.00 42.05      A16S
ATOM   6815  C5* A   A 327     120.910  59.291  -8.267  1.00 42.05      A16S
ATOM   6816  C4* A   A 327     122.200  58.656  -7.809  1.00 42.05      A16S
ATOM   6817  O4* A   A 327     121.938  57.740  -6.720  1.00 42.05      A16S
ATOM   6818  C1* A   A 327     122.595  56.525  -6.959  1.00 42.05      A16S
ATOM   6819  N9  A   A 327     121.837  55.456  -6.312  1.00 31.53      A16S
ATOM   6820  C4  A   A 327     121.859  55.156  -4.971  1.00 31.53      A16S
ATOM   6821  N3  A   A 327     122.536  55.788  -4.006  1.00 31.53      A16S
ATOM   6822  C2  A   A 327     122.325  55.206  -2.830  1.00 31.53      A16S
ATOM   6823  N1  A   A 327     121.579  54.149  -2.534  1.00 31.53      A16S
ATOM   6824  C6  A   A 327     120.914  53.540  -3.527  1.00 31.53      A16S
ATOM   6825  N6  A   A 327     120.167  52.481  -3.233  1.00 31.53      A16S
ATOM   6826  C5  A   A 327     121.045  54.060  -4.815  1.00 31.53      A16S
ATOM   6827  N7  A   A 327     120.497  53.683  -6.026  1.00 31.53      A16S
ATOM   6828  C8  A   A 327     120.993  54.545  -6.878  1.00 31.53      A16S
ATOM   6829  C2* A   A 327     122.746  56.436  -8.474  1.00 42.05      A16S
ATOM   6830  O2* A   A 327     123.830  55.594  -8.776  1.00 42.05      A16S
ATOM   6831  C3* A   A 327     123.017  57.892  -8.842  1.00 42.05      A16S
ATOM   6832  O3* A   A 327     124.404  58.171  -8.640  1.00 42.05      A16S
ATOM   6833  P   C   A 328     125.037  59.547  -9.191  1.00 40.59      A16S
ATOM   6834  O1P C   A 328     125.160  60.472  -8.033  1.00 30.11      A16S
ATOM   6835  O2P C   A 328     124.294  59.982 -10.398  1.00 30.11      A16S
ATOM   6836  O5* C   A 328     126.513  59.153  -9.635  1.00 40.59      A16S
ATOM   6837  C5* C   A 328     126.743  58.360 -10.808  1.00 40.59      A16S
ATOM   6838  C4* C   A 328     126.633  56.909 -10.455  1.00 40.59      A16S
ATOM   6839  O4* C   A 328     125.436  56.380 -11.046  1.00 40.59      A16S
ATOM   6840  C1* C   A 328     125.535  54.984 -11.029  1.00 40.59      A16S
ATOM   6841  N1  C   A 328     124.629  54.419 -12.045  1.00 30.11      A16S
ATOM   6842  C6  C   A 328     123.370  54.022 -11.692  1.00 30.11      A16S
ATOM   6843  C2  C   A 328     125.062  54.287 -13.360  1.00 30.11      A16S
ATOM   6844  O2  C   A 328     126.206  54.657 -13.652  1.00 30.11      A16S
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ATOM   6845  N3   C   A 328     124.230  53.759 -14.279  1.00 30.11       A16S
ATOM   6846  C4   C   A 328     123.010  53.373 -13.928  1.00 30.11       A16S
ATOM   6847  N4   C   A 328     122.227  52.866 -14.873  1.00 30.11       A16S
ATOM   6848  C5   C   A 328     122.537  53.495 -12.592  1.00 30.11       A16S
ATOM   6849  C2*  C   A 328     127.026  54.615 -11.055  1.00 40.59       A16S
ATOM   6850  O2*  C   A 328     127.308  53.811  -9.950  1.00 40.59       A16S
ATOM   6851  C3*  C   A 328     127.714  55.977 -10.973  1.00 40.59       A16S
ATOM   6852  O3*  C   A 328     128.932  56.041 -10.182  1.00 40.59       A16S
ATOM   6853  P    A   A 329     128.963  55.633  -8.594  1.00 38.62       A16S
ATOM   6854  O1P  A   A 329     129.846  56.642  -7.934  1.00 37.44       A16S
ATOM   6855  O2P  A   A 329     129.290  54.195  -8.445  1.00 37.44       A16S
ATOM   6856  O5*  A   A 329     127.498  55.898  -8.012  1.00 38.62       A16S
ATOM   6857  C5*  A   A 329     127.250  57.006  -7.102  1.00 38.62       A16S
ATOM   6858  C4*  A   A 329     126.864  56.504  -5.718  1.00 38.62       A16S
ATOM   6859  O4*  A   A 329     125.613  55.808  -5.804  1.00 38.62       A16S
ATOM   6860  C1*  A   A 329     125.540  54.898  -4.747  1.00 38.62       A16S
ATOM   6861  N9   A   A 329     124.792  53.736  -5.189  1.00 37.44       A16S
ATOM   6862  C4   A   A 329     124.250  52.792  -4.362  1.00 37.44       A16S
ATOM   6863  N3   A   A 329     124.336  52.742  -3.025  1.00 37.44       A16S
ATOM   6864  C2   A   A 329     123.674  51.701  -2.566  1.00 37.44       A16S
ATOM   6865  N1   A   A 329     122.990  50.770  -3.240  1.00 37.44       A16S
ATOM   6866  C6   A   A 329     122.935  50.855  -4.581  1.00 37.44       A16S
ATOM   6867  N6   A   A 329     122.265  49.927  -5.257  1.00 37.44       A16S
ATOM   6868  C5   A   A 329     123.589  51.911  -5.185  1.00 37.44       A16S
ATOM   6869  N7   A   A 329     123.728  52.278  -6.510  1.00 37.44       A16S
ATOM   6870  C8   A   A 329     124.455  53.362  -6.457  1.00 37.44       A16S
ATOM   6871  C2*  A   A 329     126.947  54.589  -4.239  1.00 38.62       A16S
ATOM   6872  O2*  A   A 329     126.992  54.780  -2.844  1.00 38.62       A16S
ATOM   6873  C3*  A   A 329     127.838  55.524  -5.066  1.00 38.62       A16S
ATOM   6874  O3*  A   A 329     128.808  56.144  -4.183  1.00 38.62       A16S
ATOM   6875  P    C   A 330     128.566  57.638  -3.588  1.00 40.34       A16S
ATOM   6876  O1P  C   A 330     127.187  57.669  -3.021  1.00 48.15       A16S
ATOM   6877  O2P  C   A 330     128.980  58.677  -4.573  1.00 48.15       A16S
ATOM   6878  O5*  C   A 330     129.573  57.721  -2.363  1.00 40.34       A16S
ATOM   6879  C5*  C   A 330     129.449  56.794  -1.289  1.00 40.34       A16S
ATOM   6880  C4*  C   A 330     130.797  56.276  -0.876  1.00 40.34       A16S
ATOM   6881  O4*  C   A 330     131.576  57.383  -0.362  1.00 40.34       A16S
ATOM   6882  C1*  C   A 330     132.167  57.025   0.870  1.00 40.34       A16S
ATOM   6883  N1   C   A 330     131.446  57.742   1.930  1.00 48.15       A16S
ATOM   6884  C6   C   A 330     130.222  58.299   1.691  1.00 48.15       A16S
ATOM   6885  C2   C   A 330     132.018  57.825   3.191  1.00 48.15       A16S
ATOM   6886  O2   C   A 330     133.139  57.317   3.381  1.00 48.15       A16S
ATOM   6887  N3   C   A 330     131.337  58.446   4.182  1.00 48.15       A16S
ATOM   6888  C4   C   A 330     130.131  58.958   3.944  1.00 48.15       A16S
ATOM   6889  N4   C   A 330     129.483  59.521   4.957  1.00 48.15       A16S
ATOM   6890  C5   C   A 330     129.536  58.906   2.660  1.00 48.15       A16S
ATOM   6891  C2*  C   A 330     131.978  55.519   1.042  1.00 40.34       A16S
ATOM   6892  O2*  C   A 330     133.057  54.774   0.508  1.00 40.34       A16S
ATOM   6893  C3*  C   A 330     130.686  55.305   0.283  1.00 40.34       A16S
ATOM   6894  O3*  C   A 330     130.482  53.969  -0.131  1.00 40.34       A16S
ATOM   6895  P    G   A 331     129.297  53.123   0.539  1.00 42.91       A16S
ATOM   6896  O1P  G   A 331     129.254  51.797  -0.125  1.00 53.97       A16S
ATOM   6897  O2P  G   A 331     128.069  53.974   0.594  1.00 53.97       A16S
ATOM   6898  O5*  G   A 331     129.785  52.870   2.026  1.00 42.91       A16S
ATOM   6899  C5*  G   A 331     130.822  51.933   2.297  1.00 42.91       A16S
ATOM   6900  C4*  G   A 331     130.934  51.707   3.777  1.00 42.91       A16S
ATOM   6901  O4*  G   A 331     131.257  52.965   4.441  1.00 42.91       A16S
ATOM   6902  C1*  G   A 331     130.626  53.005   5.713  1.00 42.91       A16S
ATOM   6903  N9   G   A 331     129.679  54.117   5.740  1.00 53.97       A16S
ATOM   6904  C4   G   A 331     129.032  54.609   6.845  1.00 53.97       A16S
ATOM   6905  N3   G   A 331     129.197  54.189   8.113  1.00 53.97       A16S
ATOM   6906  C2   G   A 331     128.405  54.830   8.950  1.00 53.97       A16S
ATOM   6907  N2   G   A 331     128.437  54.549  10.253  1.00 53.97       A16S
ATOM   6908  N1   G   A 331     127.520  55.798   8.574  1.00 53.97       A16S
ATOM   6909  C6   G   A 331     127.333  56.245   7.277  1.00 53.97       A16S
ATOM   6910  O6   G   A 331     126.496  57.122   7.045  1.00 53.97       A16S
ATOM   6911  C5   G   A 331     128.180  55.575   6.368  1.00 53.97       A16S
ATOM   6912  N7   G   A 331     128.313  55.716   4.997  1.00 53.97       A16S
ATOM   6913  C8   G   A 331     129.220  54.840   4.671  1.00 53.97       A16S
ATOM   6914  C2*  G   A 331     129.897  51.668   5.896  1.00 42.91       A16S
ATOM   6915  O2*  G   A 331     130.744  50.767   6.580  1.00 42.91       A16S
ATOM   6916  C3*  G   A 331     129.663  51.236   4.457  1.00 42.91       A16S
ATOM   6917  O3*  G   A 331     129.490  49.838   4.352  1.00 42.91       A16S
ATOM   6918  P    G   A 332     128.067  49.243   3.893  1.00 43.13       A16S
ATOM   6919  O1P  G   A 332     127.063  50.336   3.855  1.00 40.41       A16S
ATOM   6920  O2P  G   A 332     127.790  48.032   4.696  1.00 40.41       A16S
ATOM   6921  O5*  G   A 332     128.336  48.727   2.411  1.00 43.13       A16S
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ATOM   6922  C5* G   A 332     127.826  49.427   1.272  1.00 43.13      A16S
ATOM   6923  C4* G   A 332     127.039  48.486   0.407  1.00 43.13      A16S
ATOM   6924  O4* G   A 332     126.058  49.253  -0.314  1.00 43.13      A16S
ATOM   6925  C1* G   A 332     125.831  48.672  -1.582  1.00 43.13      A16S
ATOM   6926  N9  G   A 332     126.251  49.628  -2.606  1.00 40.41      A16S
ATOM   6927  C4  G   A 332     125.981  49.571  -3.954  1.00 40.41      A16S
ATOM   6928  N3  G   A 332     125.237  48.636  -4.577  1.00 40.41      A16S
ATOM   6929  C2  G   A 332     125.175  48.846  -5.875  1.00 40.41      A16S
ATOM   6930  N2  G   A 332     124.457  48.027  -6.645  1.00 40.41      A16S
ATOM   6931  N1  G   A 332     125.807  49.879  -6.513  1.00 40.41      A16S
ATOM   6932  C6  G   A 332     126.584  50.845  -5.890  1.00 40.41      A16S
ATOM   6933  O6  G   A 332     127.130  51.724  -6.558  1.00 40.41      A16S
ATOM   6934  C5  G   A 332     126.638  50.648  -4.503  1.00 40.41      A16S
ATOM   6935  N7  G   A 332     127.276  51.388  -3.524  1.00 40.41      A16S
ATOM   6936  C8  G   A 332     127.018  50.749  -2.416  1.00 40.41      A16S
ATOM   6937  C2* G   A 332     126.648  47.383  -1.630  1.00 43.13      A16S
ATOM   6938  O2* G   A 332     125.857  46.328  -1.125  1.00 43.13      A16S
ATOM   6939  C3* G   A 332     127.776  47.698  -0.665  1.00 43.13      A16S
ATOM   6940  O3* G   A 332     128.380  46.489  -0.201  1.00 43.13      A16S
ATOM   6941  P   G   A 333     129.467  45.716  -1.131  1.00 30.64      A16S
ATOM   6942  O1P G   A 333     129.714  44.425  -0.425  1.00 49.05      A16S
ATOM   6943  O2P G   A 333     130.622  46.600  -1.443  1.00 49.05      A16S
ATOM   6944  O5* G   A 333     128.679  45.399  -2.481  1.00 30.64      A16S
ATOM   6945  C5* G   A 333     127.756  44.303  -2.531  1.00 30.64      A16S
ATOM   6946  C4* G   A 333     127.421  43.963  -3.956  1.00 30.64      A16S
ATOM   6947  O4* G   A 333     126.750  45.101  -4.536  1.00 30.64      A16S
ATOM   6948  C1* G   A 333     127.137  45.248  -5.889  1.00 30.64      A16S
ATOM   6949  N9  G   A 333     127.840  46.521  -5.993  1.00 49.05      A16S
ATOM   6950  C4  G   A 333     128.173  47.178  -7.144  1.00 49.05      A16S
ATOM   6951  N3  G   A 333     127.946  46.738  -8.391  1.00 49.05      A16S
ATOM   6952  C2  G   A 333     128.366  47.589  -9.293  1.00 49.05      A16S
ATOM   6953  N2  G   A 333     128.228  47.291 -10.579  1.00 49.05      A16S
ATOM   6954  N1  G   A 333     128.954  48.796  -9.000  1.00 49.05      A16S
ATOM   6955  C6  G   A 333     129.189  49.281  -7.715  1.00 49.05      A16S
ATOM   6956  O6  G   A 333     129.702  50.408  -7.547  1.00 49.05      A16S
ATOM   6957  C5  G   A 333     128.762  48.355  -6.736  1.00 49.05      A16S
ATOM   6958  N7  G   A 333     128.827  48.421  -5.352  1.00 49.05      A16S
ATOM   6959  C8  G   A 333     128.274  47.310  -4.954  1.00 49.05      A16S
ATOM   6960  C2* G   A 333     128.011  44.048  -6.253  1.00 30.64      A16S
ATOM   6961  O2* G   A 333     127.207  43.018  -6.802  1.00 30.64      A16S
ATOM   6962  C3* G   A 333     128.587  43.689  -4.893  1.00 30.64      A16S
ATOM   6963  O3* G   A 333     129.050  42.353  -4.838  1.00 30.64      A16S
ATOM   6964  P   C   A 334     130.577  42.044  -5.210  1.00 48.92      A16S
ATOM   6965  O1P C   A 334     130.806  40.628  -4.862  1.00 53.72      A16S
ATOM   6966  O2P C   A 334     131.485  43.088  -4.671  1.00 53.72      A16S
ATOM   6967  O5* C   A 334     130.572  42.162  -6.788  1.00 48.92      A16S
ATOM   6968  C5* C   A 334     129.811  41.236  -7.571  1.00 48.92      A16S
ATOM   6969  C4* C   A 334     130.146  41.398  -9.025  1.00 48.92      A16S
ATOM   6970  O4* C   A 334     129.606  42.657  -9.496  1.00 48.92      A16S
ATOM   6971  C1* C   A 334     130.514  43.251 -10.404  1.00 48.92      A16S
ATOM   6972  N1  C   A 334     130.941  44.557  -9.856  1.00 53.72      A16S
ATOM   6973  C6  C   A 334     130.835  44.835  -8.523  1.00 53.72      A16S
ATOM   6974  C2  C   A 334     131.451  45.521 -10.735  1.00 53.72      A16S
ATOM   6975  O2  C   A 334     131.546  45.247 -11.944  1.00 53.72      A16S
ATOM   6976  N3  C   A 334     131.821  46.725 -10.250  1.00 53.72      A16S
ATOM   6977  C4  C   A 334     131.692  46.988  -8.955  1.00 53.72      A16S
ATOM   6978  N4  C   A 334     132.045  48.195  -8.536  1.00 53.72      A16S
ATOM   6979  C5  C   A 334     131.191  46.028  -8.038  1.00 53.72      A16S
ATOM   6980  C2* C   A 334     131.664  42.265 -10.621  1.00 48.92      A16S
ATOM   6981  O2* C   A 334     131.380  41.443 -11.741  1.00 48.92      A16S
ATOM   6982  C3* C   A 334     131.632  41.479  -9.321  1.00 48.92      A16S
ATOM   6983  O3* C   A 334     132.245  40.205  -9.425  1.00 48.92      A16S
ATOM   6984  P   C   A 335     133.842  40.088  -9.273  1.00 46.50      A16S
ATOM   6985  O1P C   A 335     134.193  38.647  -9.326  1.00 36.86      A16S
ATOM   6986  O2P C   A 335     134.279  40.908  -8.114  1.00 36.86      A16S
ATOM   6987  O5* C   A 335     134.391  40.760 -10.607  1.00 46.50      A16S
ATOM   6988  C5* C   A 335     134.098  40.168 -11.886  1.00 46.50      A16S
ATOM   6989  C4* C   A 335     134.809  40.912 -12.978  1.00 46.50      A16S
ATOM   6990  O4* C   A 335     134.188  42.204 -13.162  1.00 46.50      A16S
ATOM   6991  C1* C   A 335     135.185  43.179 -13.390  1.00 46.50      A16S
ATOM   6992  N1  C   A 335     135.179  44.096 -12.241  1.00 36.86      A16S
ATOM   6993  C6  C   A 335     134.757  43.675 -11.016  1.00 36.86      A16S
ATOM   6994  C2  C   A 335     135.615  45.402 -12.419  1.00 36.86      A16S
ATOM   6995  O2  C   A 335     136.004  45.747 -13.537  1.00 36.86      A16S
ATOM   6996  N3  C   A 335     135.609  46.256 -11.373  1.00 36.86      A16S
ATOM   6997  C4  C   A 335     135.194  45.835 -10.183  1.00 36.86      A16S
ATOM   6998  N4  C   A 335     135.203  46.697  -9.171  1.00 36.86      A16S
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ATOM   6999  C5  C   A 335     134.748  44.502  -9.972  1.00 36.86      A16S
ATOM   7000  C2* C   A 335     136.524  42.451 -13.501  1.00 46.50      A16S
ATOM   7001  O2* C   A 335     136.816  42.098 -14.836  1.00 46.50      A16S
ATOM   7002  C3* C   A 335     136.256  41.222 -12.662  1.00 46.50      A16S
ATOM   7003  O3* C   A 335     137.125  40.164 -12.979  1.00 46.50      A16S
ATOM   7004  P   C   A 336     138.488  40.016 -12.160  1.00 41.17      A16S
ATOM   7005  O1P C   A 336     139.077  38.709 -12.527  1.00 63.39      A16S
ATOM   7006  O2P C   A 336     138.207  40.317 -10.733  1.00 63.39      A16S
ATOM   7007  O5* C   A 336     139.389  41.175 -12.763  1.00 41.17      A16S
ATOM   7008  C5* C   A 336     139.598  41.249 -14.170  1.00 41.17      A16S
ATOM   7009  C4* C   A 336     140.393  42.472 -14.512  1.00 41.17      A16S
ATOM   7010  O4* C   A 336     139.557  43.649 -14.393  1.00 41.17      A16S
ATOM   7011  C1* C   A 336     140.351  44.752 -13.984  1.00 41.17      A16S
ATOM   7012  N1  C   A 336     139.844  45.251 -12.696  1.00 63.39      A16S
ATOM   7013  C6  C   A 336     139.140  44.434 -11.857  1.00 63.39      A16S
ATOM   7014  C2  C   A 336     140.111  46.574 -12.329  1.00 63.39      A16S
ATOM   7015  O2  C   A 336     140.729  47.310 -13.120  1.00 63.39      A16S
ATOM   7016  N3  C   A 336     139.687  47.019 -11.125  1.00 63.39      A16S
ATOM   7017  C4  C   A 336     139.015  46.204 -10.311  1.00 63.39      A16S
ATOM   7018  N4  C   A 336     138.628  46.676  -9.131  1.00 63.39      A16S
ATOM   7019  C5  C   A 336     138.713  44.866 -10.669  1.00 63.39      A16S
ATOM   7020  C2* C   A 336     141.793  44.259 -13.849  1.00 41.17      A16S
ATOM   7021  O2* C   A 336     142.520  44.529 -15.035  1.00 41.17      A16S
ATOM   7022  C3* C   A 336     141.585  42.769 -13.620  1.00 41.17      A16S
ATOM   7023  O3* C   A 336     142.742  42.022 -13.952  1.00 41.17      A16S
ATOM   7024  P   C   A 337     143.872  41.787 -12.838  1.00 51.19      A16S
ATOM   7025  O1P C   A 337     144.986  41.078 -13.503  1.00 56.09      A16S
ATOM   7026  O2P C   A 337     143.229  41.186 -11.643  1.00 56.09      A16S
ATOM   7027  O5* C   A 337     144.386  43.255 -12.498  1.00 51.19      A16S
ATOM   7028  C5* C   A 337     145.077  44.026 -13.497  1.00 51.19      A16S
ATOM   7029  C4* C   A 337     145.654  45.290 -12.903  1.00 51.19      A16S
ATOM   7030  O4* C   A 337     144.603  46.257 -12.649  1.00 51.19      A16S
ATOM   7031  C1* C   A 337     144.908  47.000 -11.481  1.00 51.19      A16S
ATOM   7032  N1  C   A 337     143.872  46.716 -10.470  1.00 56.09      A16S
ATOM   7033  C6  C   A 337     143.063  45.623 -10.585  1.00 56.09      A16S
ATOM   7034  C2  C   A 337     143.737  47.580  -9.374  1.00 56.09      A16S
ATOM   7035  O2  C   A 337     144.465  48.580  -9.304  1.00 56.09      A16S
ATOM   7036  N3  C   A 337     142.816  47.301  -8.423  1.00 56.09      A16S
ATOM   7037  C4  C   A 337     142.039  46.221  -8.543  1.00 56.09      A16S
ATOM   7038  N4  C   A 337     141.146  45.975  -7.580  1.00 56.09      A16S
ATOM   7039  C5  C   A 337     142.142  45.342  -9.657  1.00 56.09      A16S
ATOM   7040  C2* C   A 337     146.293  46.559 -11.006  1.00 51.19      A16S
ATOM   7041  O2* C   A 337     147.276  47.425 -11.540  1.00 51.19      A16S
ATOM   7042  C3* C   A 337     146.373  45.147 -11.573  1.00 51.19      A16S
ATOM   7043  O3* C   A 337     147.707  44.674 -11.703  1.00 51.19      A16S
ATOM   7044  P   A   A 338     148.342  43.795 -10.520  1.00 65.21      A16S
ATOM   7045  O1P A   A 338     149.610  43.209 -11.013  1.00 52.13      A16S
ATOM   7046  O2P A   A 338     147.284  42.903  -9.984  1.00 52.13      A16S
ATOM   7047  O5* A   A 338     148.695  44.882  -9.415  1.00 65.21      A16S
ATOM   7048  C5* A   A 338     149.542  45.995  -9.738  1.00 65.21      A16S
ATOM   7049  C4* A   A 338     149.511  47.010  -8.630  1.00 65.21      A16S
ATOM   7050  O4* A   A 338     148.217  47.657  -8.593  1.00 65.21      A16S
ATOM   7051  C1* A   A 338     147.854  47.925  -7.246  1.00 65.21      A16S
ATOM   7052  N9  A   A 338     146.598  47.229  -6.963  1.00 52.13      A16S
ATOM   7053  C4  A   A 338     145.767  47.441  -5.890  1.00 52.13      A16S
ATOM   7054  N3  A   A 338     145.948  48.296  -4.870  1.00 52.13      A16S
ATOM   7055  C2  A   A 338     144.927  48.227  -4.018  1.00 52.13      A16S
ATOM   7056  N1  A   A 338     143.831  47.463  -4.071  1.00 52.13      A16S
ATOM   7057  C6  A   A 338     143.684  46.619  -5.114  1.00 52.13      A16S
ATOM   7058  N6  A   A 338     142.593  45.862  -5.182  1.00 52.13      A16S
ATOM   7059  C5  A   A 338     144.693  46.591  -6.076  1.00 52.13      A16S
ATOM   7060  N7  A   A 338     144.852  45.843  -7.229  1.00 52.13      A16S
ATOM   7061  C8  A   A 338     145.995  46.254  -7.713  1.00 52.13      A16S
ATOM   7062  C2* A   A 338     149.008  47.472  -6.352  1.00 65.21      A16S
ATOM   7063  O2* A   A 338     149.849  48.571  -6.052  1.00 65.21      A16S
ATOM   7064  C3* A   A 338     149.688  46.438  -7.237  1.00 65.21      A16S
ATOM   7065  O3* A   A 338     151.049  46.251  -6.912  1.00 65.21      A16S
ATOM   7066  P   C   A 339     151.497  44.893  -6.187  1.00 73.80      A16S
ATOM   7067  O1P C   A 339     152.958  44.801  -6.416  1.00 55.56      A16S
ATOM   7068  O2P C   A 339     150.600  43.777  -6.627  1.00 55.56      A16S
ATOM   7069  O5* C   A 339     151.233  45.165  -4.639  1.00 73.80      A16S
ATOM   7070  C5* C   A 339     151.892  46.251  -3.975  1.00 73.80      A16S
ATOM   7071  C4* C   A 339     151.035  46.798  -2.859  1.00 73.80      A16S
ATOM   7072  O4* C   A 339     149.747  47.214  -3.376  1.00 73.80      A16S
ATOM   7073  C1* C   A 339     148.763  47.068  -2.372  1.00 73.80      A16S
ATOM   7074  N1  C   A 339     147.678  46.203  -2.870  1.00 55.56      A16S
ATOM   7075  C6  C   A 339     147.777  45.562  -4.069  1.00 55.56      A16S
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ATOM   7076  C2  C   A 339     146.530  46.043  -2.080  1.00 55.56      A16S
ATOM   7077  O2  C   A 339     146.453  46.645  -0.996  1.00 55.56      A16S
ATOM   7078  N3  C   A 339     145.537  45.241  -2.512  1.00 55.56      A16S
ATOM   7079  C4  C   A 339     145.651  44.616  -3.678  1.00 55.56      A16S
ATOM   7080  N4  C   A 339     144.648  43.829  -4.057  1.00 55.56      A16S
ATOM   7081  C5  C   A 339     146.798  44.767  -4.507  1.00 55.56      A16S
ATOM   7082  C2* C   A 339     149.449  46.501  -1.132  1.00 73.80      A16S
ATOM   7083  O2* C   A 339     149.757  47.576  -0.267  1.00 73.80      A16S
ATOM   7084  C3* C   A 339     150.689  45.851  -1.729  1.00 73.80      A16S
ATOM   7085  O3* C   A 339     151.747  45.776  -0.786  1.00 73.80      A16S
ATOM   7086  P   U   A 340     151.969  44.422   0.055  1.00 77.75      A16S
ATOM   7087  O1P U   A 340     153.279  44.579   0.732  1.00 71.98      A16S
ATOM   7088  O2P U   A 340     151.727  43.246  -0.819  1.00 71.98      A16S
ATOM   7089  O5* U   A 340     150.820  44.439   1.156  1.00 77.75      A16S
ATOM   7090  C5* U   A 340     150.924  45.291   2.304  1.00 77.75      A16S
ATOM   7091  C4* U   A 340     149.806  45.000   3.264  1.00 77.75      A16S
ATOM   7092  O4* U   A 340     148.546  45.390   2.665  1.00 77.75      A16S
ATOM   7093  C1* U   A 340     147.532  44.486   3.064  1.00 77.75      A16S
ATOM   7094  N1  U   A 340     146.953  43.868   1.865  1.00 71.98      A16S
ATOM   7095  C6  U   A 340     147.632  43.844   0.666  1.00 71.98      A16S
ATOM   7096  C2  U   A 340     145.693  43.307   1.982  1.00 71.98      A16S
ATOM   7097  O2  U   A 340     145.058  43.300   3.027  1.00 71.98      A16S
ATOM   7098  N3  U   A 340     145.202  42.750   0.829  1.00 71.98      A16S
ATOM   7099  C4  U   A 340     145.823  42.694  -0.402  1.00 71.98      A16S
ATOM   7100  O4  U   A 340     145.236  42.169  -1.354  1.00 71.98      A16S
ATOM   7101  C5  U   A 340     147.125  43.291  -0.439  1.00 71.98      A16S
ATOM   7102  C2* U   A 340     148.157  43.455   4.004  1.00 77.75      A16S
ATOM   7103  O2* U   A 340     147.920  43.834   5.343  1.00 77.75      A16S
ATOM   7104  C3* U   A 340     149.627  43.534   3.616  1.00 77.75      A16S
ATOM   7105  O3* U   A 340     150.479  43.134   4.676  1.00 77.75      A16S
ATOM   7106  P   C   A 341     150.914  41.594   4.800  1.00105.00      A16S
ATOM   7107  O1P C   A 341     151.987  41.557   5.825  1.00 65.23      A16S
ATOM   7108  O2P C   A 341     151.168  41.035   3.437  1.00 65.23      A16S
ATOM   7109  O5* C   A 341     149.624  40.867   5.382  1.00105.00      A16S
ATOM   7110  C5* C   A 341     149.090  41.244   6.653  1.00105.00      A16S
ATOM   7111  C4* C   A 341     147.700  40.693   6.816  1.00105.00      A16S
ATOM   7112  O4* C   A 341     146.850  41.214   5.765  1.00105.00      A16S
ATOM   7113  C1* C   A 341     145.886  40.240   5.400  1.00105.00      A16S
ATOM   7114  N1  C   A 341     146.027  39.939   3.962  1.00 65.23      A16S
ATOM   7115  C6  C   A 341     147.210  40.157   3.312  1.00 65.23      A16S
ATOM   7116  C2  C   A 341     144.925  39.428   3.266  1.00 65.23      A16S
ATOM   7117  O2  C   A 341     143.866  39.228   3.878  1.00 65.23      A16S
ATOM   7118  N3  C   A 341     145.041  39.165   1.947  1.00 65.23      A16S
ATOM   7119  C4  C   A 341     146.197  39.392   1.321  1.00 65.23      A16S
ATOM   7120  N4  C   A 341     146.266  39.132   0.011  1.00 65.23      A16S
ATOM   7121  C5  C   A 341     147.336  39.902   2.006  1.00 65.23      A16S
ATOM   7122  C2* C   A 341     146.102  39.019   6.291  1.00105.00      A16S
ATOM   7123  O2* C   A 341     145.216  39.107   7.392  1.00105.00      A16S
ATOM   7124  C3* C   A 341     147.562  39.189   6.688  1.00105.00      A16S
ATOM   7125  O3* C   A 341     147.859  38.538   7.905  1.00105.00      A16S
ATOM   7126  P   C   A 342     148.314  37.003   7.881  1.00107.79      A16S
ATOM   7127  O1P C   A 342     148.620  36.631   9.286  1.00 67.04      A16S
ATOM   7128  O2P C   A 342     149.350  36.839   6.830  1.00 67.04      A16S
ATOM   7129  O5* C   A 342     147.003  36.225   7.420  1.00107.79      A16S
ATOM   7130  C5* C   A 342     145.907  36.041   8.335  1.00107.79      A16S
ATOM   7131  C4* C   A 342     144.873  35.106   7.750  1.00107.79      A16S
ATOM   7132  O4* C   A 342     144.225  35.728   6.608  1.00107.79      A16S
ATOM   7133  C1* C   A 342     143.846  34.730   5.675  1.00107.79      A16S
ATOM   7134  N1  C   A 342     144.524  34.984   4.391  1.00 67.04      A16S
ATOM   7135  C6  C   A 342     145.736  35.621   4.338  1.00 67.04      A16S
ATOM   7136  C2  C   A 342     143.904  34.547   3.212  1.00 67.04      A16S
ATOM   7137  O2  C   A 342     142.813  33.965   3.289  1.00 67.04      A16S
ATOM   7138  N3  C   A 342     144.509  34.769   2.021  1.00 67.04      A16S
ATOM   7139  C4  C   A 342     145.687  35.396   1.978  1.00 67.04      A16S
ATOM   7140  N4  C   A 342     146.240  35.601   0.781  1.00 67.04      A16S
ATOM   7141  C5  C   A 342     146.348  35.844   3.164  1.00 67.04      A16S
ATOM   7142  C2* C   A 342     144.251  33.376   6.253  1.00107.79      A16S
ATOM   7143  O2* C   A 342     143.141  32.787   6.905  1.00107.79      A16S
ATOM   7144  C3* C   A 342     145.369  33.776   7.207  1.00107.79      A16S
ATOM   7145  O3* C   A 342     145.600  32.798   8.207  1.00107.79      A16S
ATOM   7146  P   U   A 343     146.677  31.636   7.933  1.00 89.47      A16S
ATOM   7147  O1P U   A 343     147.983  32.260   7.595  1.00 98.04      A16S
ATOM   7148  O2P U   A 343     146.591  30.684   9.068  1.00 98.04      A16S
ATOM   7149  O5* U   A 343     146.141  30.918   6.615  1.00 89.47      A16S
ATOM   7150  C5* U   A 343     144.884  30.221   6.615  1.00 89.47      A16S
ATOM   7151  C4* U   A 343     144.598  29.659   5.247  1.00 89.47      A16S
ATOM   7152  O4* U   A 343     144.420  30.746   4.299  1.00 89.47      A16S
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ATOM   7153  C1* U   A 343     144.892  30.349   3.018  1.00 89.47      A16S
ATOM   7154  N1  U   A 343     145.995  31.235   2.601  1.00 98.04      A16S
ATOM   7155  C6  U   A 343     146.815  31.850   3.525  1.00 98.04      A16S
ATOM   7156  C2  U   A 343     146.211  31.410   1.236  1.00 98.04      A16S
ATOM   7157  O2  U   A 343     145.497  30.919   0.378  1.00 98.04      A16S
ATOM   7158  N3  U   A 343     147.298  32.185   0.915  1.00 98.04      A16S
ATOM   7159  C4  U   A 343     148.174  32.799   1.791  1.00 98.04      A16S
ATOM   7160  O4  U   A 343     149.167  33.386   1.347  1.00 98.04      A16S
ATOM   7161  C5  U   A 343     147.866  32.603   3.175  1.00 98.04      A16S
ATOM   7162  C2* U   A 343     145.371  28.903   3.143  1.00 89.47      A16S
ATOM   7163  O2* U   A 343     144.313  28.041   2.776  1.00 89.47      A16S
ATOM   7164  C3* U   A 343     145.699  28.813   4.629  1.00 89.47      A16S
ATOM   7165  O3* U   A 343     145.710  27.469   5.101  1.00 89.47      A16S
ATOM   7166  P   A   A 344     147.118  26.718   5.350  1.00113.47      A16S
ATOM   7167  O1P A   A 344     148.121  27.239   4.390  1.00118.38      A16S
ATOM   7168  O2P A   A 344     147.397  26.788   6.810  1.00118.38      A16S
ATOM   7169  O5* A   A 344     146.802  25.200   4.969  1.00113.47      A16S
ATOM   7170  C5* A   A 344     147.448  24.537   3.852  1.00113.47      A16S
ATOM   7171  C4* A   A 344     146.488  23.558   3.213  1.00113.47      A16S
ATOM   7172  O4* A   A 344     145.813  22.865   4.291  1.00113.47      A16S
ATOM   7173  C1* A   A 344     144.428  22.772   4.026  1.00113.47      A16S
ATOM   7174  N9  A   A 344     143.733  23.462   5.108  1.00118.38      A16S
ATOM   7175  C4  A   A 344     143.078  22.857   6.151  1.00118.38      A16S
ATOM   7176  N3  A   A 344     142.943  21.540   6.372  1.00118.38      A16S
ATOM   7177  C2  A   A 344     142.248  21.320   7.486  1.00118.38      A16S
ATOM   7178  N1  A   A 344     141.708  22.200   8.338  1.00118.38      A16S
ATOM   7179  C6  A   A 344     141.857  23.518   8.085  1.00118.38      A16S
ATOM   7180  N6  A   A 344     141.307  24.396   8.931  1.00118.38      A16S
ATOM   7181  C5  A   A 344     142.586  23.884   6.934  1.00118.38      A16S
ATOM   7182  N7  A   A 344     142.927  25.117   6.395  1.00118.38      A16S
ATOM   7183  C8  A   A 344     143.602  24.811   5.314  1.00118.38      A16S
ATOM   7184  C2* A   A 344     144.155  23.318   2.623  1.00113.47      A16S
ATOM   7185  O2* A   A 344     143.948  22.248   1.729  1.00113.47      A16S
ATOM   7186  C3* A   A 344     145.380  24.202   2.387  1.00113.47      A16S
ATOM   7187  O3* A   A 344     145.788  24.422   1.019  1.00113.47      A16S
ATOM   7188  P   C   A 345     146.199  23.180   0.066  1.00124.72      A16S
ATOM   7189  O1P C   A 345     147.346  22.499   0.715  1.00 87.86      A16S
ATOM   7190  O2P C   A 345     144.995  22.395  -0.316  1.00 87.86      A16S
ATOM   7191  O5* C   A 345     146.755  23.867  -1.264  1.00124.72      A16S
ATOM   7192  C5* C   A 345     145.865  24.216  -2.348  1.00124.72      A16S
ATOM   7193  C4* C   A 345     146.406  25.403  -3.111  1.00124.72      A16S
ATOM   7194  O4* C   A 345     146.550  26.523  -2.200  1.00124.72      A16S
ATOM   7195  C1* C   A 345     147.883  26.990  -2.220  1.00124.72      A16S
ATOM   7196  N1  C   A 345     148.234  27.457  -0.864  1.00 87.86      A16S
ATOM   7197  C6  C   A 345     148.018  26.666   0.234  1.00 87.86      A16S
ATOM   7198  C2  C   A 345     148.774  28.753  -0.708  1.00 87.86      A16S
ATOM   7199  O2  C   A 345     149.001  29.446  -1.720  1.00 87.86      A16S
ATOM   7200  N3  C   A 345     149.034  29.212   0.541  1.00 87.86      A16S
ATOM   7201  C4  C   A 345     148.790  28.438   1.602  1.00 87.86      A16S
ATOM   7202  N4  C   A 345     149.040  28.942   2.808  1.00 87.86      A16S
ATOM   7203  C5  C   A 345     148.275  27.114   1.472  1.00 87.86      A16S
ATOM   7204  C2* C   A 345     148.730  25.847  -2.771  1.00124.72      A16S
ATOM   7205  O2* C   A 345     149.903  26.359  -3.368  1.00124.72      A16S
ATOM   7206  C3* C   A 345     147.767  25.210  -3.772  1.00124.72      A16S
ATOM   7207  O3* C   A 345     147.785  25.967  -4.982  1.00124.72      A16S
ATOM   7208  P   G   A 346     147.370  25.275  -6.373  1.00110.03      A16S
ATOM   7209  O1P G   A 346     147.749  26.213  -7.466  1.00109.72      A16S
ATOM   7210  O2P G   A 346     147.895  23.883  -6.388  1.00109.72      A16S
ATOM   7211  O5* G   A 346     145.778  25.207  -6.317  1.00110.03      A16S
ATOM   7212  C5* G   A 346     144.974  26.401  -6.449  1.00110.03      A16S
ATOM   7213  C4* G   A 346     143.506  26.056  -6.348  1.00110.03      A16S
ATOM   7214  O4* G   A 346     143.291  25.250  -5.171  1.00110.03      A16S
ATOM   7215  C1* G   A 346     142.001  25.498  -4.665  1.00110.03      A16S
ATOM   7216  N9  G   A 346     142.076  25.605  -3.212  1.00109.72      A16S
ATOM   7217  C4  G   A 346     142.824  26.489  -2.464  1.00109.72      A16S
ATOM   7218  N3  G   A 346     143.612  27.477  -2.943  1.00109.72      A16S
ATOM   7219  C2  G   A 346     144.209  28.150  -1.969  1.00109.72      A16S
ATOM   7220  N2  G   A 346     145.018  29.182  -2.260  1.00109.72      A16S
ATOM   7221  N1  G   A 346     144.055  27.861  -0.638  1.00109.72      A16S
ATOM   7222  C6  G   A 346     143.257  26.844  -0.126  1.00109.72      A16S
ATOM   7223  O6  G   A 346     143.199  26.657   1.093  1.00109.72      A16S
ATOM   7224  C5  G   A 346     142.600  26.132  -1.152  1.00109.72      A16S
ATOM   7225  N7  G   A 346     141.713  25.068  -1.074  1.00109.72      A16S
ATOM   7226  C8  G   A 346     141.424  24.795  -2.315  1.00109.72      A16S
ATOM   7227  C2* G   A 346     141.365  26.646  -5.451  1.00110.03      A16S
ATOM   7228  O2* G   A 346     140.396  26.107  -6.322  1.00110.03      A16S
ATOM   7229  C3* G   A 346     142.558  27.237  -6.200  1.00110.03      A16S
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ATOM	7230	O3*	G	A	346	142.148	27.673	-7.492	1.00	110.03	A16S
ATOM	7231	P	G	A	347	142.010	29.242	-7.811	1.00	112.69	A16S
ATOM	7232	O1P	G	A	347	143.370	29.813	-7.682	1.00	87.54	A16S
ATOM	7233	O2P	G	A	347	141.270	29.388	-9.092	1.00	87.54	A16S
ATOM	7234	O5*	G	A	347	141.094	29.817	-6.638	1.00	112.69	A16S
ATOM	7235	C5*	G	A	347	139.804	29.247	-6.372	1.00	112.69	A16S
ATOM	7236	C4*	G	A	347	139.357	29.564	-4.962	1.00	112.69	A16S
ATOM	7237	O4*	G	A	347	140.417	29.237	-4.015	1.00	112.69	A16S
ATOM	7238	C1*	G	A	347	140.357	30.119	-2.902	1.00	112.69	A16S
ATOM	7239	N9	G	A	347	141.570	30.932	-2.857	1.00	87.54	A16S
ATOM	7240	C4	G	A	347	142.086	31.559	-1.746	1.00	87.54	A16S
ATOM	7241	N3	G	A	347	141.585	31.493	-0.496	1.00	87.54	A16S
ATOM	7242	C2	G	A	347	142.283	32.224	0.356	1.00	87.54	A16S
ATOM	7243	N2	G	A	347	141.919	32.273	1.641	1.00	87.54	A16S
ATOM	7244	N1	G	A	347	143.387	32.962	0.011	1.00	87.54	A16S
ATOM	7245	C6	G	A	347	143.922	33.046	-1.269	1.00	87.54	A16S
ATOM	7246	O6	G	A	347	144.921	33.744	-1.472	1.00	87.54	A16S
ATOM	7247	C5	G	A	347	143.182	32.265	-2.197	1.00	87.54	A16S
ATOM	7248	N7	G	A	347	143.368	32.070	-3.559	1.00	87.54	A16S
ATOM	7249	C8	G	A	347	142.396	31.268	-3.906	1.00	87.54	A16S
ATOM	7250	C2*	G	A	347	139.163	31.039	-3.125	1.00	112.69	A16S
ATOM	7251	O2*	G	A	347	138.026	30.504	-2.480	1.00	112.69	A16S
ATOM	7252	C3*	G	A	347	139.040	31.014	-4.643	1.00	112.69	A16S
ATOM	7253	O3*	G	A	347	137.753	31.439	-5.075	1.00	112.69	A16S
ATOM	7254	P	G	A	348	137.312	32.969	-4.834	1.00	65.60	A16S
ATOM	7255	O1P	G	A	348	138.532	33.817	-4.986	1.00	56.32	A16S
ATOM	7256	O2P	G	A	348	136.088	33.296	-5.616	1.00	56.32	A16S
ATOM	7257	O5*	G	A	348	136.911	32.975	-3.300	1.00	65.60	A16S
ATOM	7258	C5*	G	A	348	136.756	34.193	-2.602	1.00	65.60	A16S
ATOM	7259	C4*	G	A	348	137.078	33.986	-1.155	1.00	65.60	A16S
ATOM	7260	O4*	G	A	348	138.425	33.487	-1.032	1.00	65.60	A16S
ATOM	7261	C1*	G	A	348	139.054	34.085	0.084	1.00	65.60	A16S
ATOM	7262	N9	G	A	348	140.200	34.843	-0.399	1.00	56.32	A16S
ATOM	7263	C4	G	A	348	141.004	35.632	0.362	1.00	56.32	A16S
ATOM	7264	N3	G	A	348	140.853	35.860	1.677	1.00	56.32	A16S
ATOM	7265	C2	G	A	348	141.801	36.642	2.149	1.00	56.32	A16S
ATOM	7266	N2	G	A	348	141.797	36.971	3.449	1.00	56.32	A16S
ATOM	7267	N1	G	A	348	142.822	37.158	1.384	1.00	56.32	A16S
ATOM	7268	C6	G	A	348	142.992	36.932	0.023	1.00	56.32	A16S
ATOM	7269	O6	G	A	348	143.950	37.430	-0.573	1.00	56.32	A16S
ATOM	7270	C5	G	A	348	141.976	36.103	-0.493	1.00	56.32	A16S
ATOM	7271	N7	G	A	348	141.764	35.640	-1.783	1.00	56.32	A16S
ATOM	7272	C8	G	A	348	140.698	34.898	-1.681	1.00	56.32	A16S
ATOM	7273	C2*	G	A	348	138.031	34.978	0.780	1.00	65.60	A16S
ATOM	7274	O2*	G	A	348	137.430	34.277	1.845	1.00	65.60	A16S
ATOM	7275	C3*	G	A	348	137.078	35.270	-0.364	1.00	65.60	A16S
ATOM	7276	O3*	G	A	348	135.768	35.600	0.021	1.00	65.60	A16S
ATOM	7277	P	A	A	349	135.242	37.089	-0.228	1.00	95.70	A16S
ATOM	7278	O1P	A	A	349	133.791	37.096	0.102	1.00	68.35	A16S
ATOM	7279	O2P	A	A	349	135.691	37.535	-1.580	1.00	68.35	A16S
ATOM	7280	O5*	A	A	349	136.041	37.905	0.878	1.00	95.70	A16S
ATOM	7281	C5*	A	A	349	135.992	37.491	2.254	1.00	95.70	A16S
ATOM	7282	C4*	A	A	349	136.814	38.416	3.108	1.00	95.70	A16S
ATOM	7283	O4*	A	A	349	138.225	38.131	2.950	1.00	95.70	A16S
ATOM	7284	C1*	A	A	349	138.967	39.336	3.037	1.00	95.70	A16S
ATOM	7285	N9	A	A	349	139.702	39.509	1.783	1.00	68.35	A16S
ATOM	7286	C4	A	A	349	140.838	40.263	1.608	1.00	68.35	A16S
ATOM	7287	N3	A	A	349	141.495	40.974	2.538	1.00	68.35	A16S
ATOM	7288	C2	A	A	349	142.544	41.588	2.001	1.00	68.35	A16S
ATOM	7289	N1	A	A	349	142.978	41.571	0.740	1.00	68.35	A16S
ATOM	7290	C6	A	A	349	142.301	40.845	-0.167	1.00	68.35	A16S
ATOM	7291	N6	A	A	349	142.742	40.829	-1.423	1.00	68.35	A16S
ATOM	7292	C5	A	A	349	141.166	40.148	0.270	1.00	68.35	A16S
ATOM	7293	N7	A	A	349	140.258	39.333	-0.391	1.00	68.35	A16S
ATOM	7294	C8	A	A	349	139.414	38.976	0.547	1.00	68.35	A16S
ATOM	7295	C2*	A	A	349	137.979	40.473	3.304	1.00	95.70	A16S
ATOM	7296	O2*	A	A	349	137.919	40.744	4.689	1.00	95.70	A16S
ATOM	7297	C3*	A	A	349	136.683	39.883	2.763	1.00	95.70	A16S
ATOM	7298	O3*	A	A	349	135.512	40.447	3.323	1.00	95.70	A16S
ATOM	7299	P	G	A	350	135.046	41.909	2.853	1.00	73.51	A16S
ATOM	7300	O1P	G	A	350	135.184	42.011	1.365	1.00	55.98	A16S
ATOM	7301	O2P	G	A	350	133.729	42.211	3.496	1.00	55.98	A16S
ATOM	7302	O5*	G	A	350	136.161	42.822	3.513	1.00	73.51	A16S
ATOM	7303	C5*	G	A	350	136.307	44.171	3.130	1.00	73.51	A16S
ATOM	7304	C4*	G	A	350	137.605	44.699	3.648	1.00	73.51	A16S
ATOM	7305	O4*	G	A	350	138.657	43.790	3.263	1.00	73.51	A16S
ATOM	7306	C1*	G	A	350	139.784	44.522	2.831	1.00	73.51	A16S

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ATOM   7307  N9  G   A 350     139.991  44.190   1.426  1.00 55.98      A16S
ATOM   7308  C4  G   A 350     141.117  44.412   0.669  1.00 55.98      A16S
ATOM   7309  N3  G   A 350     142.260  44.993   1.090  1.00 55.98      A16S
ATOM   7310  C2  G   A 350     143.154  45.081   0.117  1.00 55.98      A16S
ATOM   7311  N2  G   A 350     144.338  45.654   0.352  1.00 55.98      A16S
ATOM   7312  N1  G   A 350     142.948  44.619  -1.161  1.00 55.98      A16S
ATOM   7313  C6  G   A 350     141.776  44.014  -1.613  1.00 55.98      A16S
ATOM   7314  O6  G   A 350     141.682  43.631  -2.787  1.00 55.98      A16S
ATOM   7315  C5  G   A 350     140.810  43.927  -0.588  1.00 55.98      A16S
ATOM   7316  N7  G   A 350     139.523  43.412  -0.620  1.00 55.98      A16S
ATOM   7317  C8  G   A 350     139.078  43.586   0.593  1.00 55.98      A16S
ATOM   7318  C2* G   A 350     139.493  46.007   3.083  1.00 73.51      A16S
ATOM   7319  O2* G   A 350     139.992  46.380   4.351  1.00 73.51      A16S
ATOM   7320  C3* G   A 350     137.971  46.036   3.048  1.00 73.51      A16S
ATOM   7321  O3* G   A 350     137.406  47.076   3.835  1.00 73.51      A16S
ATOM   7322  P   G   A 351     136.028  47.773   3.377  1.00 79.65      A16S
ATOM   7323  O1P G   A 351     135.159  47.749   4.572  1.00 45.68      A16S
ATOM   7324  O2P G   A 351     135.518  47.227   2.095  1.00 45.68      A16S
ATOM   7325  O5* G   A 351     136.451  49.281   3.106  1.00 79.65      A16S
ATOM   7326  C5* G   A 351     137.020  50.073   4.155  1.00 79.65      A16S
ATOM   7327  C4* G   A 351     138.234  50.793   3.651  1.00 79.65      A16S
ATOM   7328  O4* G   A 351     139.177  49.820   3.170  1.00 79.65      A16S
ATOM   7329  C1* G   A 351     139.850  50.336   2.049  1.00 79.65      A16S
ATOM   7330  N9  G   A 351     139.723  49.375   0.963  1.00 45.68      A16S
ATOM   7331  C4  G   A 351     140.652  49.128  -0.012  1.00 45.68      A16S
ATOM   7332  N3  G   A 351     141.834  49.750  -0.146  1.00 45.68      A16S
ATOM   7333  C2  G   A 351     142.506  49.302  -1.179  1.00 45.68      A16S
ATOM   7334  N2  G   A 351     143.702  49.829  -1.465  1.00 45.68      A16S
ATOM   7335  N1  G   A 351     142.056  48.311  -2.012  1.00 45.68      A16S
ATOM   7336  C6  G   A 351     140.836  47.661  -1.890  1.00 45.68      A16S
ATOM   7337  O6  G   A 351     140.509  46.790  -2.707  1.00 45.68      A16S
ATOM   7338  C5  G   A 351     140.111  48.135  -0.788  1.00 45.68      A16S
ATOM   7339  N7  G   A 351     138.864  47.765  -0.315  1.00 45.68      A16S
ATOM   7340  C8  G   A 351     138.673  48.532   0.721  1.00 45.68      A16S
ATOM   7341  C2* G   A 351     139.303  51.735   1.748  1.00 79.65      A16S
ATOM   7342  O2* G   A 351     140.189  52.724   2.246  1.00 79.65      A16S
ATOM   7343  C3* G   A 351     137.970  51.730   2.485  1.00 79.65      A16S
ATOM   7344  O3* G   A 351     137.690  53.073   2.908  1.00 79.65      A16S
ATOM   7345  P   C   A 352     138.139  53.584   4.375  1.00 39.10      A16S
ATOM   7346  O1P C   A 352     136.945  53.650   5.263  1.00 57.17      A16S
ATOM   7347  O2P C   A 352     139.371  52.881   4.837  1.00 57.17      A16S
ATOM   7348  O5* C   A 352     138.585  55.073   4.114  1.00 39.10      A16S
ATOM   7349  C5* C   A 352     139.773  55.581   4.718  1.00 39.10      A16S
ATOM   7350  C4* C   A 352     139.414  56.538   5.818  1.00 39.10      A16S
ATOM   7351  O4* C   A 352     138.908  55.825   6.978  1.00 39.10      A16S
ATOM   7352  C1* C   A 352     139.333  56.487   8.151  1.00 39.10      A16S
ATOM   7353  N1  C   A 352     140.205  55.589   8.911  1.00 57.17      A16S
ATOM   7354  C6  C   A 352     140.836  54.537   8.315  1.00 57.17      A16S
ATOM   7355  C2  C   A 352     140.393  55.845  10.259  1.00 57.17      A16S
ATOM   7356  O2  C   A 352     139.808  56.811  10.771  1.00 57.17      A16S
ATOM   7357  N3  C   A 352     141.212  55.050  10.977  1.00 57.17      A16S
ATOM   7358  C4  C   A 352     141.844  54.040  10.386  1.00 57.17      A16S
ATOM   7359  N4  C   A 352     142.672  53.302  11.132  1.00 57.17      A16S
ATOM   7360  C5  C   A 352     141.661  53.747   9.006  1.00 57.17      A16S
ATOM   7361  C2* C   A 352     140.094  57.740   7.723  1.00 39.10      A16S
ATOM   7362  O2* C   A 352     139.184  58.815   7.648  1.00 39.10      A16S
ATOM   7363  C3* C   A 352     140.576  57.347   6.340  1.00 39.10      A16S
ATOM   7364  O3* C   A 352     140.722  58.463   5.506  1.00 39.10      A16S
ATOM   7365  P   A   A 353     142.159  59.137   5.308  1.00 36.36      A16S
ATOM   7366  O1P A   A 353     143.041  58.949   6.489  1.00 33.08      A16S
ATOM   7367  O2P A   A 353     142.644  58.707   3.965  1.00 33.08      A16S
ATOM   7368  O5* A   A 353     141.758  60.675   5.292  1.00 36.36      A16S
ATOM   7369  C5* A   A 353     141.488  61.350   4.074  1.00 36.36      A16S
ATOM   7370  C4* A   A 353     140.095  61.936   4.067  1.00 36.36      A16S
ATOM   7371  O4* A   A 353     140.107  62.770   2.887  1.00 36.36      A16S
ATOM   7372  C1* A   A 353     139.143  62.320   1.968  1.00 36.36      A16S
ATOM   7373  N9  A   A 353     139.819  61.489   0.973  1.00 33.08      A16S
ATOM   7374  C4  A   A 353     139.326  61.163  -0.257  1.00 33.08      A16S
ATOM   7375  N3  A   A 353     138.153  61.537  -0.776  1.00 33.08      A16S
ATOM   7376  C2  A   A 353     137.998  61.030  -1.981  1.00 33.08      A16S
ATOM   7377  N1  A   A 353     138.821  60.251  -2.678  1.00 33.08      A16S
ATOM   7378  C6  A   A 353     140.001  59.899  -2.130  1.00 33.08      A16S
ATOM   7379  N6  A   A 353     140.835  59.129  -2.845  1.00 33.08      A16S
ATOM   7380  C5  A   A 353     140.279  60.369  -0.847  1.00 33.08      A16S
ATOM   7381  N7  A   A 353     141.363  60.196  -0.004  1.00 33.08      A16S
ATOM   7382  C8  A   A 353     141.042  60.880   1.058  1.00 33.08      A16S
ATOM   7383  C2* A   A 353     138.099  61.568   2.781  1.00 36.36      A16S
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ATOM   7384  O2*  A   A 353     137.194  62.518   3.290  1.00 36.36      A16S
ATOM   7385  C3*  A   A 353     138.945  60.938   3.879  1.00 36.36      A16S
ATOM   7386  O3*  A   A 353     138.139  60.840   5.057  1.00 36.36      A16S
ATOM   7387  P    G   A 354     136.833  59.877   5.082  1.00 40.19      A16S
ATOM   7388  O1P  G   A 354     137.326  58.509   5.345  1.00 47.31      A16S
ATOM   7389  O2P  G   A 354     135.951  60.108   3.908  1.00 47.31      A16S
ATOM   7390  O5*  G   A 354     136.081  60.317   6.427  1.00 40.19      A16S
ATOM   7391  C5*  G   A 354     135.333  61.551   6.516  1.00 40.19      A16S
ATOM   7392  C4*  G   A 354     134.405  61.553   7.731  1.00 40.19      A16S
ATOM   7393  O4*  G   A 354     133.670  60.296   7.820  1.00 40.19      A16S
ATOM   7394  C1*  G   A 354     133.424  59.974   9.182  1.00 40.19      A16S
ATOM   7395  N9   G   A 354     134.053  58.684   9.476  1.00 47.31      A16S
ATOM   7396  C4   G   A 354     134.075  58.017  10.689  1.00 47.31      A16S
ATOM   7397  N3   G   A 354     133.486  58.418  11.834  1.00 47.31      A16S
ATOM   7398  C2   G   A 354     133.698  57.565  12.825  1.00 47.31      A16S
ATOM   7399  N2   G   A 354     133.186  57.797  14.039  1.00 47.31      A16S
ATOM   7400  N1   G   A 354     134.427  56.423  12.704  1.00 47.31      A16S
ATOM   7401  C6   G   A 354     135.046  55.993  11.543  1.00 47.31      A16S
ATOM   7402  O6   G   A 354     135.696  54.949  11.552  1.00 47.31      A16S
ATOM   7403  C5   G   A 354     134.823  56.885  10.468  1.00 47.31      A16S
ATOM   7404  N7   G   A 354     135.243  56.820   9.147  1.00 47.31      A16S
ATOM   7405  C8   G   A 354     134.761  57.901   8.598  1.00 47.31      A16S
ATOM   7406  C2*  G   A 354     133.977  61.124  10.032  1.00 40.19      A16S
ATOM   7407  O2*  G   A 354     132.936  62.034  10.340  1.00 40.19      A16S
ATOM   7408  C3*  G   A 354     135.027  61.737   9.109  1.00 40.19      A16S
ATOM   7409  O3*  G   A 354     135.189  63.121   9.417  1.00 40.19      A16S
ATOM   7410  P    C   A 355     136.308  63.588  10.478  1.00 41.65      A16S
ATOM   7411  O1P  C   A 355     136.193  65.056  10.631  1.00 43.67      A16S
ATOM   7412  O2P  C   A 355     137.604  63.001  10.081  1.00 43.67      A16S
ATOM   7413  O5*  C   A 355     135.863  62.921  11.853  1.00 41.65      A16S
ATOM   7414  C5*  C   A 355     134.767  63.462  12.612  1.00 41.65      A16S
ATOM   7415  C4*  C   A 355     134.793  62.942  14.032  1.00 41.65      A16S
ATOM   7416  O4*  C   A 355     134.386  61.559  14.055  1.00 41.65      A16S
ATOM   7417  C1*  C   A 355     135.117  60.864  15.044  1.00 41.65      A16S
ATOM   7418  N1   C   A 355     135.879  59.793  14.383  1.00 43.67      A16S
ATOM   7419  C6   C   A 355     136.288  59.917  13.085  1.00 43.67      A16S
ATOM   7420  C2   C   A 355     136.175  58.653  15.099  1.00 43.67      A16S
ATOM   7421  O2   C   A 355     135.772  58.562  16.264  1.00 43.67      A16S
ATOM   7422  N3   C   A 355     136.884  57.666  14.505  1.00 43.67      A16S
ATOM   7423  C4   C   A 355     137.270  57.791  13.237  1.00 43.67      A16S
ATOM   7424  N4   C   A 355     137.948  56.792  12.688  1.00 43.67      A16S
ATOM   7425  C5   C   A 355     136.975  58.944  12.479  1.00 43.67      A16S
ATOM   7426  C2*  C   A 355     136.011  61.871  15.766  1.00 41.65      A16S
ATOM   7427  O2*  C   A 355     135.370  62.349  16.934  1.00 41.65      A16S
ATOM   7428  C3*  C   A 355     136.142  62.968  14.726  1.00 41.65      A16S
ATOM   7429  O3*  C   A 355     136.360  64.204  15.371  1.00 41.65      A16S
ATOM   7430  P    A   A 356     137.853  64.703  15.615  1.00 40.38      A16S
ATOM   7431  O1P  A   A 356     137.751  65.885  16.502  1.00 55.82      A16S
ATOM   7432  O2P  A   A 356     138.485  64.833  14.285  1.00 55.82      A16S
ATOM   7433  O5*  A   A 356     138.560  63.494  16.378  1.00 40.38      A16S
ATOM   7434  C5*  A   A 356     138.341  63.293  17.781  1.00 40.38      A16S
ATOM   7435  C4*  A   A 356     139.062  62.055  18.294  1.00 40.38      A16S
ATOM   7436  O4*  A   A 356     138.420  60.838  17.833  1.00 40.38      A16S
ATOM   7437  C1*  A   A 356     139.330  59.759  17.975  1.00 40.38      A16S
ATOM   7438  N9   A   A 356     139.513  59.081  16.692  1.00 55.82      A16S
ATOM   7439  C4   A   A 356     139.931  57.779  16.553  1.00 55.82      A16S
ATOM   7440  N3   A   A 356     140.173  56.891  17.533  1.00 55.82      A16S
ATOM   7441  C2   A   A 356     140.592  55.738  17.027  1.00 55.82      A16S
ATOM   7442  N1   A   A 356     140.792  55.399  15.750  1.00 55.82      A16S
ATOM   7443  C6   A   A 356     140.548  56.318  14.791  1.00 55.82      A16S
ATOM   7444  N6   A   A 356     140.774  55.991  13.522  1.00 55.82      A16S
ATOM   7445  C5   A   A 356     140.080  57.575  15.196  1.00 55.82      A16S
ATOM   7446  N7   A   A 356     139.724  58.713  14.486  1.00 55.82      A16S
ATOM   7447  C8   A   A 356     139.383  59.571  15.417  1.00 55.82      A16S
ATOM   7448  C2*  A   A 356     140.667  60.346  18.426  1.00 40.38      A16S
ATOM   7449  O2*  A   A 356     140.767  60.251  19.833  1.00 40.38      A16S
ATOM   7450  C3*  A   A 356     140.537  61.802  18.005  1.00 40.38      A16S
ATOM   7451  O3*  A   A 356     141.427  62.552  18.814  1.00 40.38      A16S
ATOM   7452  P    G   A 357     142.987  62.633  18.419  1.00 37.16      A16S
ATOM   7453  O1P  G   A 357     143.694  63.233  19.578  1.00 59.22      A16S
ATOM   7454  O2P  G   A 357     143.122  63.256  17.076  1.00 59.22      A16S
ATOM   7455  O5*  G   A 357     143.457  61.113  18.289  1.00 37.16      A16S
ATOM   7456  C5*  G   A 357     143.724  60.301  19.458  1.00 37.16      A16S
ATOM   7457  C4*  G   A 357     144.240  58.937  19.049  1.00 37.16      A16S
ATOM   7458  O4*  G   A 357     143.245  58.274  18.231  1.00 37.16      A16S
ATOM   7459  C1*  G   A 357     143.882  57.546  17.198  1.00 37.16      A16S
ATOM   7460  N9   G   A 357     143.472  58.115  15.919  1.00 59.22      A16S
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ATOM	7461	C4	G	A	357	143.694	57.587	14.672	1.00	59.22	A16S
ATOM	7462	N3	G	A	357	144.345	56.440	14.403	1.00	59.22	A16S
ATOM	7463	C2	G	A	357	144.388	56.193	13.108	1.00	59.22	A16S
ATOM	7464	N2	G	A	357	144.999	55.098	12.665	1.00	59.22	A16S
ATOM	7465	N1	G	A	357	143.835	57.009	12.153	1.00	59.22	A16S
ATOM	7466	C6	G	A	357	143.154	58.195	12.412	1.00	59.22	A16S
ATOM	7467	O6	G	A	357	142.672	58.857	11.477	1.00	59.22	A16S
ATOM	7468	C5	G	A	357	143.109	58.470	13.793	1.00	59.22	A16S
ATOM	7469	N7	G	A	357	142.542	59.535	14.470	1.00	59.22	A16S
ATOM	7470	C8	G	A	357	142.784	59.285	15.725	1.00	59.22	A16S
ATOM	7471	C2*	G	A	357	145.386	57.647	17.419	1.00	37.16	A16S
ATOM	7472	O2*	G	A	357	145.813	56.521	18.159	1.00	37.16	A16S
ATOM	7473	C3*	G	A	357	145.494	58.949	18.196	1.00	37.16	A16S
ATOM	7474	O3*	G	A	357	146.663	58.990	18.996	1.00	37.16	A16S
ATOM	7475	P	U	A	358	148.066	59.406	18.328	1.00	49.23	A16S
ATOM	7476	O1P	U	A	358	149.055	59.509	19.424	1.00	66.77	A16S
ATOM	7477	O2P	U	A	358	147.834	60.576	17.443	1.00	66.77	A16S
ATOM	7478	O5*	U	A	358	148.454	58.154	17.421	1.00	49.23	A16S
ATOM	7479	C5*	U	A	358	148.630	56.844	18.006	1.00	49.23	A16S
ATOM	7480	C4*	U	A	358	149.078	55.850	16.961	1.00	49.23	A16S
ATOM	7481	O4*	U	A	358	148.010	55.606	16.017	1.00	49.23	A16S
ATOM	7482	C1*	U	A	358	148.556	55.391	14.728	1.00	49.23	A16S
ATOM	7483	N1	U	A	358	147.935	56.326	13.778	1.00	66.77	A16S
ATOM	7484	C6	U	A	358	147.271	57.452	14.201	1.00	66.77	A16S
ATOM	7485	C2	U	A	358	148.031	56.022	12.437	1.00	66.77	A16S
ATOM	7486	O2	U	A	358	148.629	55.048	12.026	1.00	66.77	A16S
ATOM	7487	N3	U	A	358	147.404	56.903	11.594	1.00	66.77	A16S
ATOM	7488	C4	U	A	358	146.710	58.037	11.949	1.00	66.77	A16S
ATOM	7489	O4	U	A	358	146.154	58.709	11.076	1.00	66.77	A16S
ATOM	7490	C5	U	A	358	146.672	58.294	13.358	1.00	66.77	A16S
ATOM	7491	C2*	U	A	358	150.076	55.502	14.828	1.00	49.23	A16S
ATOM	7492	O2*	U	A	358	150.628	54.210	14.942	1.00	49.23	A16S
ATOM	7493	C3*	U	A	358	150.248	56.298	16.111	1.00	49.23	A16S
ATOM	7494	O3*	U	A	358	151.470	55.983	16.739	1.00	49.23	A16S
ATOM	7495	P	U	A	359	152.752	56.896	16.451	1.00	48.57	A16S
ATOM	7496	O1P	U	A	359	153.812	56.447	17.394	1.00	59.18	A16S
ATOM	7497	O2P	U	A	359	152.309	58.319	16.469	1.00	59.18	A16S
ATOM	7498	O5*	U	A	359	153.162	56.546	14.945	1.00	48.57	A16S
ATOM	7499	C5*	U	A	359	153.718	55.265	14.597	1.00	48.57	A16S
ATOM	7500	C4*	U	A	359	153.856	55.135	13.095	1.00	48.57	A16S
ATOM	7501	O4*	U	A	359	152.547	55.141	12.480	1.00	48.57	A16S
ATOM	7502	C1*	U	A	359	152.626	55.743	11.200	1.00	48.57	A16S
ATOM	7503	N1	U	A	359	151.683	56.870	11.140	1.00	59.18	A16S
ATOM	7504	C6	U	A	359	151.335	57.575	12.267	1.00	59.18	A16S
ATOM	7505	C2	U	A	359	151.172	57.215	9.905	1.00	59.18	A16S
ATOM	7506	O2	U	A	359	151.423	56.603	8.882	1.00	59.18	A16S
ATOM	7507	N3	U	A	359	150.352	58.307	9.912	1.00	59.18	A16S
ATOM	7508	C4	U	A	359	149.993	59.067	10.995	1.00	59.18	A16S
ATOM	7509	O4	U	A	359	149.317	60.075	10.820	1.00	59.18	A16S
ATOM	7510	C5	U	A	359	150.531	58.632	12.234	1.00	59.18	A16S
ATOM	7511	C2*	U	A	359	154.074	56.180	10.963	1.00	48.57	A16S
ATOM	7512	O2*	U	A	359	154.715	55.250	10.120	1.00	48.57	A16S
ATOM	7513	C3*	U	A	359	154.633	56.229	12.381	1.00	48.57	A16S
ATOM	7514	O3*	U	A	359	156.027	55.947	12.390	1.00	48.57	A16S
ATOM	7515	P	A	A	360	157.086	57.146	12.227	1.00	39.01	A16S
ATOM	7516	O1P	A	A	360	158.442	56.590	12.485	1.00	68.94	A16S
ATOM	7517	O2P	A	A	360	156.607	58.309	13.025	1.00	68.94	A16S
ATOM	7518	O5*	A	A	360	156.995	57.510	10.683	1.00	39.01	A16S
ATOM	7519	C5*	A	A	360	157.345	56.536	9.702	1.00	39.01	A16S
ATOM	7520	C4*	A	A	360	156.962	57.008	8.331	1.00	39.01	A16S
ATOM	7521	O4*	A	A	360	155.521	57.032	8.188	1.00	39.01	A16S
ATOM	7522	C1*	A	A	360	155.153	58.090	7.322	1.00	39.01	A16S
ATOM	7523	N9	A	A	360	154.237	58.971	8.047	1.00	68.94	A16S
ATOM	7524	C4	A	A	360	153.490	59.984	7.503	1.00	68.94	A16S
ATOM	7525	N3	A	A	360	153.461	60.377	6.221	1.00	68.94	A16S
ATOM	7526	C2	A	A	360	152.614	61.390	6.060	1.00	68.94	A16S
ATOM	7527	N1	A	A	360	151.850	62.004	6.963	1.00	68.94	A16S
ATOM	7528	C6	A	A	360	151.897	61.578	8.240	1.00	68.94	A16S
ATOM	7529	N6	A	A	360	151.121	62.179	9.138	1.00	68.94	A16S
ATOM	7530	C5	A	A	360	152.762	60.517	8.545	1.00	68.94	A16S
ATOM	7531	N7	A	A	360	153.051	59.860	9.732	1.00	68.94	A16S
ATOM	7532	C8	A	A	360	153.932	58.958	9.383	1.00	68.94	A16S
ATOM	7533	C2*	A	A	360	156.437	58.784	6.858	1.00	39.01	A16S
ATOM	7534	O2*	A	A	360	156.823	58.263	5.600	1.00	39.01	A16S
ATOM	7535	C3*	A	A	360	157.410	58.404	7.967	1.00	39.01	A16S
ATOM	7536	O3*	A	A	360	158.749	58.395	7.532	1.00	39.01	A16S
ATOM	7537	P	G	A	361	159.679	59.663	7.831	1.00	44.85	A16S

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ATOM   7538  O1P G   A 361     159.476  60.021   9.264  1.00 67.30      A16S
ATOM   7539  O2P G   A 361     161.047  59.363   7.338  1.00 67.30      A16S
ATOM   7540  O5* G   A 361     159.064  60.801   6.899  1.00 44.85      A16S
ATOM   7541  C5* G   A 361     159.116  60.671   5.467  1.00 44.85      A16S
ATOM   7542  C4* G   A 361     158.352  61.787   4.793  1.00 44.85      A16S
ATOM   7543  O4* G   A 361     156.927  61.594   4.950  1.00 44.85      A16S
ATOM   7544  C1* G   A 361     156.280  62.852   5.036  1.00 44.85      A16S
ATOM   7545  N9  G   A 361     155.688  62.952   6.362  1.00 67.30      A16S
ATOM   7546  C4  G   A 361     154.653  63.768   6.756  1.00 67.30      A16S
ATOM   7547  N3  G   A 361     153.953  64.608   5.966  1.00 67.30      A16S
ATOM   7548  C2  G   A 361     153.034  65.274   6.650  1.00 67.30      A16S
ATOM   7549  N2  G   A 361     152.237  66.151   6.031  1.00 67.30      A16S
ATOM   7550  N1  G   A 361     152.824  65.128   7.996  1.00 67.30      A16S
ATOM   7551  C6  G   A 361     153.533  64.271   8.827  1.00 67.30      A16S
ATOM   7552  O6  G   A 361     153.269  64.219  10.035  1.00 67.30      A16S
ATOM   7553  C5  G   A 361     154.512  63.547   8.110  1.00 67.30      A16S
ATOM   7554  N7  G   A 361     155.415  62.593   8.550  1.00 67.30      A16S
ATOM   7555  C8  G   A 361     156.085  62.266   7.482  1.00 67.30      A16S
ATOM   7556  C2* G   A 361     157.349  63.925   4.844  1.00 44.85      A16S
ATOM   7557  O2* G   A 361     157.406  64.289   3.480  1.00 44.85      A16S
ATOM   7558  C3* G   A 361     158.603  63.193   5.300  1.00 44.85      A16S
ATOM   7559  O3* G   A 361     159.793  63.751   4.767  1.00 44.85      A16S
ATOM   7560  P   G   A 362     160.808  64.510   5.749  1.00 56.13      A16S
ATOM   7561  O1P G   A 362     162.010  64.872   4.974  1.00 59.93      A16S
ATOM   7562  O2P G   A 362     160.948  63.726   7.006  1.00 59.93      A16S
ATOM   7563  O5* G   A 362     160.049  65.860   6.089  1.00 56.13      A16S
ATOM   7564  C5* G   A 362     159.512  66.687   5.042  1.00 56.13      A16S
ATOM   7565  C4* G   A 362     158.650  67.782   5.627  1.00 56.13      A16S
ATOM   7566  O4* G   A 362     157.421  67.222   6.159  1.00 56.13      A16S
ATOM   7567  C1* G   A 362     157.007  67.966   7.291  1.00 56.13      A16S
ATOM   7568  N9  G   A 362     156.990  67.078   8.445  1.00 59.93      A16S
ATOM   7569  C4  G   A 362     156.084  67.081   9.467  1.00 59.93      A16S
ATOM   7570  N3  G   A 362     155.013  67.887   9.570  1.00 59.93      A16S
ATOM   7571  C2  G   A 362     154.349  67.682  10.690  1.00 59.93      A16S
ATOM   7572  N2  G   A 362     153.249  68.395  10.956  1.00 59.93      A16S
ATOM   7573  N1  G   A 362     154.711  66.757  11.635  1.00 59.93      A16S
ATOM   7574  C6  G   A 362     155.811  65.906  11.543  1.00 59.93      A16S
ATOM   7575  O6  G   A 362     156.052  65.088  12.454  1.00 59.93      A16S
ATOM   7576  C5  G   A 362     156.525  66.119  10.349  1.00 59.93      A16S
ATOM   7577  N7  G   A 362     157.667  65.501   9.874  1.00 59.93      A16S
ATOM   7578  C8  G   A 362     157.900  66.096   8.739  1.00 59.93      A16S
ATOM   7579  C2* G   A 362     158.003  69.113   7.474  1.00 56.13      A16S
ATOM   7580  O2* G   A 362     157.521  70.261   6.795  1.00 56.13      A16S
ATOM   7581  C3* G   A 362     159.243  68.551   6.796  1.00 56.13      A16S
ATOM   7582  O3* G   A 362     160.143  69.568   6.377  1.00 56.13      A16S
ATOM   7583  P   A   A 363     161.426  69.898   7.277  1.00 33.35      A16S
ATOM   7584  O1P A   A 363     161.590  68.747   8.202  1.00 52.41      A16S
ATOM   7585  O2P A   A 363     162.533  70.290   6.390  1.00 52.41      A16S
ATOM   7586  O5* A   A 363     160.989  71.171   8.129  1.00 33.35      A16S
ATOM   7587  C5* A   A 363     161.663  71.507   9.368  1.00 33.35      A16S
ATOM   7588  C4* A   A 363     160.753  72.321  10.271  1.00 33.35      A16S
ATOM   7589  O4* A   A 363     160.426  73.572   9.616  1.00 33.35      A16S
ATOM   7590  C1* A   A 363     159.101  73.942   9.931  1.00 33.35      A16S
ATOM   7591  N9  A   A 363     158.341  73.945   8.692  1.00 52.41      A16S
ATOM   7592  C4  A   A 363     157.122  74.534   8.508  1.00 52.41      A16S
ATOM   7593  N3  A   A 363     156.398  75.190   9.423  1.00 52.41      A16S
ATOM   7594  C2  A   A 363     155.278  75.648   8.884  1.00 52.41      A16S
ATOM   7595  N1  A   A 363     154.835  75.536   7.624  1.00 52.41      A16S
ATOM   7596  C6  A   A 363     155.595  74.874   6.729  1.00 52.41      A16S
ATOM   7597  N6  A   A 363     155.167  74.784   5.471  1.00 52.41      A16S
ATOM   7598  C5  A   A 363     156.802  74.329   7.180  1.00 52.41      A16S
ATOM   7599  N7  A   A 363     157.794  73.598   6.541  1.00 52.41      A16S
ATOM   7600  C8  A   A 363     158.682  73.393   7.480  1.00 52.41      A16S
ATOM   7601  C2* A   A 363     158.553  72.933  10.933  1.00 33.35      A16S
ATOM   7602  O2* A   A 363     158.777  73.423  12.239  1.00 33.35      A16S
ATOM   7603  C3* A   A 363     159.404  71.710  10.633  1.00 33.35      A16S
ATOM   7604  O3* A   A 363     159.497  70.895  11.787  1.00 33.35      A16S
ATOM   7605  P   A   A 364     158.400  69.748  12.041  1.00 58.16      A16S
ATOM   7606  O1P A   A 364     158.683  69.144  13.371  1.00 55.23      A16S
ATOM   7607  O2P A   A 364     158.342  68.884  10.829  1.00 55.23      A16S
ATOM   7608  O5* A   A 364     157.025  70.529  12.186  1.00 58.16      A16S
ATOM   7609  C5* A   A 364     156.758  71.317  13.356  1.00 58.16      A16S
ATOM   7610  C4* A   A 364     155.369  71.881  13.283  1.00 58.16      A16S
ATOM   7611  O4* A   A 364     155.277  72.695  12.099  1.00 58.16      A16S
ATOM   7612  C1* A   A 364     154.010  72.534  11.514  1.00 58.16      A16S
ATOM   7613  N9  A   A 364     154.221  72.133  10.131  1.00 55.23      A16S
ATOM   7614  C4  A   A 364     153.523  72.580   9.043  1.00 55.23      A16S
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ATOM   7615  N3  A   A 364     152.510  73.455   9.033  1.00 55.23      A16S
ATOM   7616  C2  A   A 364     152.088  73.655   7.791  1.00 55.23      A16S
ATOM   7617  N1  A   A 364     152.524  73.112   6.650  1.00 55.23      A16S
ATOM   7618  C6  A   A 364     153.537  72.234   6.708  1.00 55.23      A16S
ATOM   7619  N6  A   A 364     153.961  71.682   5.583  1.00 55.23      A16S
ATOM   7620  C5  A   A 364     154.081  71.951   7.956  1.00 55.23      A16S
ATOM   7621  N7  A   A 364     155.115  71.125   8.348  1.00 55.23      A16S
ATOM   7622  C8  A   A 364     155.153  71.266   9.646  1.00 55.23      A16S
ATOM   7623  C2* A   A 364     153.192  71.567  12.377  1.00 58.16      A16S
ATOM   7624  O2* A   A 364     152.341  72.282  13.253  1.00 58.16      A16S
ATOM   7625  C3* A   A 364     154.275  70.839  13.153  1.00 58.16      A16S
ATOM   7626  O3* A   A 364     153.809  70.523  14.456  1.00 58.16      A16S
ATOM   7627  P   U   A 365     153.204  69.074  14.765  1.00 37.52      A16S
ATOM   7628  O1P U   A 365     153.510  68.806  16.194  1.00 37.03      A16S
ATOM   7629  O2P U   A 365     153.642  68.110  13.719  1.00 37.03      A16S
ATOM   7630  O5* U   A 365     151.632  69.257  14.585  1.00 37.52      A16S
ATOM   7631  C5* U   A 365     150.864  70.097  15.462  1.00 37.52      A16S
ATOM   7632  C4* U   A 365     149.502  70.345  14.868  1.00 37.52      A16S
ATOM   7633  O4* U   A 365     149.623  71.156  13.687  1.00 37.52      A16S
ATOM   7634  C1* U   A 365     148.467  70.965  12.907  1.00 37.52      A16S
ATOM   7635  N1  U   A 365     148.755  71.272  11.498  1.00 37.03      A16S
ATOM   7636  C6  U   A 365     147.877  72.044  10.794  1.00 37.03      A16S
ATOM   7637  C2  U   A 365     149.920  70.814  10.916  1.00 37.03      A16S
ATOM   7638  O2  U   A 365     150.710  70.094  11.484  1.00 37.03      A16S
ATOM   7639  N3  U   A 365     150.124  71.239   9.629  1.00 37.03      A16S
ATOM   7640  C4  U   A 365     149.292  72.046   8.883  1.00 37.03      A16S
ATOM   7641  O4  U   A 365     149.628  72.393   7.753  1.00 37.03      A16S
ATOM   7642  C5  U   A 365     148.101  72.438   9.546  1.00 37.03      A16S
ATOM   7643  C2* U   A 365     147.839  69.621  13.274  1.00 37.52      A16S
ATOM   7644  O2* U   A 365     146.508  69.847  13.692  1.00 37.52      A16S
ATOM   7645  C3* U   A 365     148.779  69.105  14.377  1.00 37.52      A16S
ATOM   7646  O3* U   A 365     148.053  68.581  15.472  1.00 37.52      A16S
ATOM   7647  P   C   A 366     148.176  67.032  15.846  1.00 40.80      A16S
ATOM   7648  O1P C   A 366     149.633  66.724  15.952  1.00 42.87      A16S
ATOM   7649  O2P C   A 366     147.319  66.265  14.895  1.00 42.87      A16S
ATOM   7650  O5* C   A 366     147.505  66.949  17.287  1.00 40.80      A16S
ATOM   7651  C5* C   A 366     148.046  67.689  18.399  1.00 40.80      A16S
ATOM   7652  C4* C   A 366     146.982  67.919  19.449  1.00 40.80      A16S
ATOM   7653  O4* C   A 366     146.054  68.958  19.037  1.00 40.80      A16S
ATOM   7654  C1* C   A 366     144.712  68.493  19.120  1.00 40.80      A16S
ATOM   7655  N1  C   A 366     143.965  69.087  17.991  1.00 42.87      A16S
ATOM   7656  C6  C   A 366     144.608  69.372  16.820  1.00 42.87      A16S
ATOM   7657  C2  C   A 366     142.589  69.380  18.131  1.00 42.87      A16S
ATOM   7658  O2  C   A 366     142.002  69.076  19.176  1.00 42.87      A16S
ATOM   7659  N3  C   A 366     141.938  69.982  17.114  1.00 42.87      A16S
ATOM   7660  C4  C   A 366     142.590  70.274  15.986  1.00 42.87      A16S
ATOM   7661  N4  C   A 366     141.914  70.887  15.008  1.00 42.87      A16S
ATOM   7662  C5  C   A 366     143.967  69.957  15.806  1.00 42.87      A16S
ATOM   7663  C2* C   A 366     144.761  66.963  19.117  1.00 40.80      A16S
ATOM   7664  O2* C   A 366     143.683  66.442  19.860  1.00 40.80      A16S
ATOM   7665  C3* C   A 366     146.124  66.712  19.750  1.00 40.80      A16S
ATOM   7666  O3* C   A 366     146.498  65.744  20.735  1.00 40.80      A16S
ATOM   7667  P   U   A 367     146.607  66.155  22.286  1.00 54.65      A16S
ATOM   7668  O1P U   A 367     146.439  67.620  22.429  1.00 60.11      A16S
ATOM   7669  O2P U   A 367     147.861  65.516  22.763  1.00 60.11      A16S
ATOM   7670  O5* U   A 367     145.345  65.448  22.956  1.00 54.65      A16S
ATOM   7671  C5* U   A 367     144.897  64.159  22.494  1.00 54.65      A16S
ATOM   7672  C4* U   A 367     143.768  63.656  23.357  1.00 54.65      A16S
ATOM   7673  O4* U   A 367     142.666  64.599  23.311  1.00 54.65      A16S
ATOM   7674  C1* U   A 367     141.485  63.927  22.934  1.00 54.65      A16S
ATOM   7675  N1  U   A 367     140.646  64.858  22.167  1.00 60.11      A16S
ATOM   7676  C6  U   A 367     140.873  65.113  20.839  1.00 60.11      A16S
ATOM   7677  C2  U   A 367     139.612  65.479  22.840  1.00 60.11      A16S
ATOM   7678  O2  U   A 367     139.373  65.279  24.014  1.00 60.11      A16S
ATOM   7679  N3  U   A 367     138.866  66.345  22.088  1.00 60.11      A16S
ATOM   7680  C4  U   A 367     139.041  66.651  20.758  1.00 60.11      A16S
ATOM   7681  O4  U   A 367     138.303  67.486  20.223  1.00 60.11      A16S
ATOM   7682  C5  U   A 367     140.128  65.965  20.130  1.00 60.11      A16S
ATOM   7683  C2* U   A 367     141.924  62.660  22.201  1.00 54.65      A16S
ATOM   7684  O2* U   A 367     140.921  61.661  22.248  1.00 54.65      A16S
ATOM   7685  C3* U   A 367     143.196  62.297  22.963  1.00 54.65      A16S
ATOM   7686  O3* U   A 367     142.877  61.575  24.151  1.00 54.65      A16S
ATOM   7687  P   U   A 368     143.841  60.385  24.646  1.00 40.55      A16S
ATOM   7688  O1P U   A 368     143.421  60.057  26.034  1.00 88.22      A16S
ATOM   7689  O2P U   A 368     145.262  60.750  24.369  1.00 88.22      A16S
ATOM   7690  O5* U   A 368     143.452  59.158  23.712  1.00 40.55      A16S
ATOM   7691  C5* U   A 368     142.181  58.519  23.869  1.00 40.55      A16S
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ATOM   7692  C4* U   A 368     141.538  58.299  22.530  1.00 40.55      A16S
ATOM   7693  O4* U   A 368     142.290  57.326  21.770  1.00 40.55      A16S
ATOM   7694  C1* U   A 368     141.403  56.610  20.933  1.00 40.55      A16S
ATOM   7695  N1  U   A 368     141.715  55.178  21.040  1.00 88.22      A16S
ATOM   7696  C6  U   A 368     141.087  54.360  21.951  1.00 88.22      A16S
ATOM   7697  C2  U   A 368     142.665  54.677  20.173  1.00 88.22      A16S
ATOM   7698  O2  U   A 368     143.265  55.377  19.373  1.00 88.22      A16S
ATOM   7699  N3  U   A 368     142.892  53.328  20.279  1.00 88.22      A16S
ATOM   7700  C4  U   A 368     142.282  52.450  21.149  1.00 88.22      A16S
ATOM   7701  O4  U   A 368     142.523  51.247  21.061  1.00 88.22      A16S
ATOM   7702  C5  U   A 368     141.332  53.051  22.033  1.00 88.22      A16S
ATOM   7703  C2* U   A 368     139.962  57.026  21.264  1.00 40.55      A16S
ATOM   7704  O2* U   A 368     139.415  57.889  20.283  1.00 40.55      A16S
ATOM   7705  C3* U   A 368     140.132  57.734  22.601  1.00 40.55      A16S
ATOM   7706  O3* U   A 368     139.229  58.816  22.698  1.00 40.55      A16S
ATOM   7707  P   C   A 369     137.656  58.539  22.723  1.00 52.01      A16S
ATOM   7708  O1P C   A 369     137.443  57.067  22.782  1.00 65.56      A16S
ATOM   7709  O2P C   A 369     137.052  59.317  21.618  1.00 65.56      A16S
ATOM   7710  O5* C   A 369     137.212  59.188  24.107  1.00 52.01      A16S
ATOM   7711  C5* C   A 369     138.078  59.116  25.261  1.00 52.01      A16S
ATOM   7712  C4* C   A 369     137.759  60.229  26.231  1.00 52.01      A16S
ATOM   7713  O4* C   A 369     138.234  61.505  25.728  1.00 52.01      A16S
ATOM   7714  C1* C   A 369     137.297  62.523  26.049  1.00 52.01      A16S
ATOM   7715  N1  C   A 369     136.848  63.159  24.791  1.00 65.56      A16S
ATOM   7716  C6  C   A 369     137.366  62.772  23.586  1.00 65.56      A16S
ATOM   7717  C2  C   A 369     135.886  64.171  24.847  1.00 65.56      A16S
ATOM   7718  O2  C   A 369     135.424  64.503  25.948  1.00 65.56      A16S
ATOM   7719  N3  C   A 369     135.483  64.762  23.706  1.00 65.56      A16S
ATOM   7720  C4  C   A 369     135.999  64.380  22.542  1.00 65.56      A16S
ATOM   7721  N4  C   A 369     135.571  64.994  21.442  1.00 65.56      A16S
ATOM   7722  C5  C   A 369     136.974  63.351  22.452  1.00 65.56      A16S
ATOM   7723  C2* C   A 369     136.164  61.886  26.863  1.00 52.01      A16S
ATOM   7724  O2* C   A 369     136.358  62.122  28.239  1.00 52.01      A16S
ATOM   7725  C3* C   A 369     136.280  60.422  26.467  1.00 52.01      A16S
ATOM   7726  O3* C   A 369     135.832  59.543  27.463  1.00 52.01      A16S
ATOM   7727  P   C   A 370     134.368  58.929  27.345  1.00 47.98      A16S
ATOM   7728  O1P C   A 370     134.194  58.558  25.923  1.00 62.59      A16S
ATOM   7729  O2P C   A 370     134.189  57.900  28.404  1.00 62.59      A16S
ATOM   7730  O5* C   A 370     133.424  60.169  27.664  1.00 47.98      A16S
ATOM   7731  C5* C   A 370     133.470  60.795  28.955  1.00 47.98      A16S
ATOM   7732  C4* C   A 370     132.302  61.725  29.134  1.00 47.98      A16S
ATOM   7733  O4* C   A 370     132.588  63.008  28.532  1.00 47.98      A16S
ATOM   7734  C1* C   A 370     131.396  63.551  27.986  1.00 47.98      A16S
ATOM   7735  N1  C   A 370     131.573  63.735  26.530  1.00 62.59      A16S
ATOM   7736  C6  C   A 370     132.552  63.071  25.851  1.00 62.59      A16S
ATOM   7737  C2  C   A 370     130.712  64.597  25.849  1.00 62.59      A16S
ATOM   7738  O2  C   A 370     129.841  65.200  26.485  1.00 62.59      A16S
ATOM   7739  N3  C   A 370     130.849  64.753  24.518  1.00 62.59      A16S
ATOM   7740  C4  C   A 370     131.803  64.092  23.866  1.00 62.59      A16S
ATOM   7741  N4  C   A 370     131.901  64.268  22.544  1.00 62.59      A16S
ATOM   7742  C5  C   A 370     132.700  63.220  24.533  1.00 62.59      A16S
ATOM   7743  C2* C   A 370     130.254  62.585  28.309  1.00 47.98      A16S
ATOM   7744  O2* C   A 370     129.584  63.027  29.472  1.00 47.98      A16S
ATOM   7745  C3* C   A 370     131.005  61.271  28.493  1.00 47.98      A16S
ATOM   7746  O3* C   A 370     130.308  60.317  29.280  1.00 47.98      A16S
ATOM   7747  P   G   A 371     129.289  59.295  28.566  1.00 48.65      A16S
ATOM   7748  O1P G   A 371     128.835  58.338  29.602  1.00 63.48      A16S
ATOM   7749  O2P G   A 371     129.866  58.787  27.280  1.00 63.48      A16S
ATOM   7750  O5* G   A 371     128.040  60.197  28.210  1.00 48.65      A16S
ATOM   7751  C5* G   A 371     127.539  61.126  29.163  1.00 48.65      A16S
ATOM   7752  C4* G   A 371     126.551  62.042  28.506  1.00 48.65      A16S
ATOM   7753  O4* G   A 371     127.211  63.106  27.766  1.00 48.65      A16S
ATOM   7754  C1* G   A 371     126.437  63.427  26.619  1.00 48.65      A16S
ATOM   7755  N9  G   A 371     127.239  63.199  25.420  1.00 63.48      A16S
ATOM   7756  C4  G   A 371     126.951  63.650  24.151  1.00 63.48      A16S
ATOM   7757  N3  G   A 371     125.882  64.394  23.795  1.00 63.48      A16S
ATOM   7758  C2  G   A 371     125.874  64.663  22.498  1.00 63.48      A16S
ATOM   7759  N2  G   A 371     124.876  65.382  21.970  1.00 63.48      A16S
ATOM   7760  N1  G   A 371     126.841  64.241  21.624  1.00 63.48      A16S
ATOM   7761  C6  G   A 371     127.941  63.470  21.965  1.00 63.48      A16S
ATOM   7762  O6  G   A 371     128.735  63.127  21.094  1.00 63.48      A16S
ATOM   7763  C5  G   A 371     127.966  63.174  23.355  1.00 63.48      A16S
ATOM   7764  N7  G   A 371     128.878  62.447  24.105  1.00 63.48      A16S
ATOM   7765  C8  G   A 371     128.407  62.489  25.320  1.00 63.48      A16S
ATOM   7766  C2* G   A 371     125.194  62.541  26.643  1.00 48.65      A16S
ATOM   7767  O2* G   A 371     124.187  63.277  27.291  1.00 48.65      A16S
ATOM   7768  C3* G   A 371     125.675  61.358  27.479  1.00 48.65      A16S
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ATOM   7769  O3*  G   A 371     124.674  60.559  28.101  1.00 48.65      A16S
ATOM   7770  P    C   A 372     123.953  59.399  27.255  1.00 56.58      A16S
ATOM   7771  O1P  C   A 372     123.083  58.631  28.167  1.00 48.37      A16S
ATOM   7772  O2P  C   A 372     124.955  58.699  26.444  1.00 48.37      A16S
ATOM   7773  O5*  C   A 372     123.006  60.234  26.298  1.00 56.58      A16S
ATOM   7774  C5*  C   A 372     122.366  61.413  26.823  1.00 56.58      A16S
ATOM   7775  C4*  C   A 372     121.623  62.132  25.747  1.00 56.58      A16S
ATOM   7776  O4*  C   A 372     122.501  62.510  24.679  1.00 56.58      A16S
ATOM   7777  C1*  C   A 372     121.710  62.742  23.543  1.00 56.58      A16S
ATOM   7778  N1   C   A 372     122.584  62.619  22.366  1.00 48.37      A16S
ATOM   7779  C6   C   A 372     123.755  61.924  22.450  1.00 48.37      A16S
ATOM   7780  C2   C   A 372     122.200  63.214  21.153  1.00 48.37      A16S
ATOM   7781  O2   C   A 372     121.151  63.883  21.103  1.00 48.37      A16S
ATOM   7782  N3   C   A 372     122.987  63.046  20.068  1.00 48.37      A16S
ATOM   7783  C4   C   A 372     124.113  62.336  20.161  1.00 48.37      A16S
ATOM   7784  N4   C   A 372     124.837  62.157  19.059  1.00 48.37      A16S
ATOM   7785  C5   C   A 372     124.540  61.764  21.385  1.00 48.37      A16S
ATOM   7786  C2*  C   A 372     120.563  61.720  23.613  1.00 56.58      A16S
ATOM   7787  O2*  C   A 372     119.340  62.169  23.061  1.00 56.58      A16S
ATOM   7788  C3*  C   A 372     120.584  61.262  25.086  1.00 56.58      A16S
ATOM   7789  O3*  C   A 372     119.406  61.265  25.927  1.00 56.58      A16S
ATOM   7790  P    A   A 373     118.601  62.631  26.227  1.00 33.42      A16S
ATOM   7791  O1P  A   A 373     117.209  62.221  26.573  1.00 55.67      A16S
ATOM   7792  O2P  A   A 373     118.818  63.577  25.108  1.00 55.67      A16S
ATOM   7793  O5*  A   A 373     119.299  63.288  27.504  1.00 33.42      A16S
ATOM   7794  C5*  A   A 373     118.472  63.904  28.540  1.00 33.42      A16S
ATOM   7795  C4*  A   A 373     118.441  65.440  28.445  1.00 33.42      A16S
ATOM   7796  O4*  A   A 373     119.665  66.008  28.974  1.00 33.42      A16S
ATOM   7797  C1*  A   A 373     119.954  67.217  28.297  1.00 33.42      A16S
ATOM   7798  N9   A   A 373     121.208  67.035  27.572  1.00 55.67      A16S
ATOM   7799  C4   A   A 373     121.851  67.953  26.783  1.00 55.67      A16S
ATOM   7800  N3   A   A 373     121.467  69.208  26.511  1.00 55.67      A16S
ATOM   7801  C2   A   A 373     122.335  69.794  25.696  1.00 55.67      A16S
ATOM   7802  N1   A   A 373     123.456  69.303  25.165  1.00 55.67      A16S
ATOM   7803  C6   A   A 373     123.806  68.036  25.464  1.00 55.67      A16S
ATOM   7804  N6   A   A 373     124.920  67.532  24.937  1.00 55.67      A16S
ATOM   7805  C5   A   A 373     122.975  67.317  26.313  1.00 55.67      A16S
ATOM   7806  N7   A   A 373     123.048  66.026  26.797  1.00 55.67      A16S
ATOM   7807  C8   A   A 373     121.979  65.909  27.534  1.00 55.67      A16S
ATOM   7808  C2*  A   A 373     118.783  67.527  27.363  1.00 33.42      A16S
ATOM   7809  O2*  A   A 373     117.857  68.340  28.048  1.00 33.42      A16S
ATOM   7810  C3*  A   A 373     118.203  66.145  27.107  1.00 33.42      A16S
ATOM   7811  O3*  A   A 373     116.817  66.293  26.789  1.00 33.42      A16S
ATOM   7812  P    A   A 374     116.380  66.826  25.328  1.00 41.25      A16S
ATOM   7813  O1P  A   A 374     114.915  67.102  25.324  1.00 59.31      A16S
ATOM   7814  O2P  A   A 374     116.942  65.896  24.319  1.00 59.31      A16S
ATOM   7815  O5*  A   A 374     117.144  68.215  25.172  1.00 41.25      A16S
ATOM   7816  C5*  A   A 374     116.589  69.435  25.696  1.00 41.25      A16S
ATOM   7817  C4*  A   A 374     117.172  70.621  24.972  1.00 41.25      A16S
ATOM   7818  O4*  A   A 374     118.613  70.591  25.099  1.00 41.25      A16S
ATOM   7819  C1*  A   A 374     119.210  71.003  23.884  1.00 41.25      A16S
ATOM   7820  N9   A   A 374     120.014  69.888  23.379  1.00 59.31      A16S
ATOM   7821  C4   A   A 374     120.912  69.932  22.342  1.00 59.31      A16S
ATOM   7822  N3   A   A 374     121.228  70.991  21.586  1.00 59.31      A16S
ATOM   7823  C2   A   A 374     122.116  70.655  20.667  1.00 59.31      A16S
ATOM   7824  N1   A   A 374     122.685  69.474  20.433  1.00 59.31      A16S
ATOM   7825  C6   A   A 374     122.347  68.431  21.210  1.00 59.31      A16S
ATOM   7826  N6   A   A 374     122.913  67.249  20.970  1.00 59.31      A16S
ATOM   7827  C5   A   A 374     121.414  68.654  22.224  1.00 59.31      A16S
ATOM   7828  N7   A   A 374     120.848  67.813  23.170  1.00 59.31      A16S
ATOM   7829  C8   A   A 374     120.028  68.590  23.829  1.00 59.31      A16S
ATOM   7830  C2*  A   A 374     118.088  71.415  22.928  1.00 41.25      A16S
ATOM   7831  O2*  A   A 374     117.852  72.808  23.000  1.00 41.25      A16S
ATOM   7832  C3*  A   A 374     116.917  70.630  23.480  1.00 41.25      A16S
ATOM   7833  O3*  A   A 374     115.714  71.291  23.192  1.00 41.25      A16S
ATOM   7834  P    U   A 375     114.962  70.959  21.834  1.00 35.70      A16S
ATOM   7835  O1P  U   A 375     113.757  71.806  21.712  1.00 38.59      A16S
ATOM   7836  O2P  U   A 375     114.832  69.485  21.817  1.00 38.59      A16S
ATOM   7837  O5*  U   A 375     116.018  71.406  20.732  1.00 35.70      A16S
ATOM   7838  C5*  U   A 375     116.169  72.797  20.350  1.00 35.70      A16S
ATOM   7839  C4*  U   A 375     116.927  72.907  19.040  1.00 35.70      A16S
ATOM   7840  O4*  U   A 375     118.319  72.553  19.259  1.00 35.70      A16S
ATOM   7841  C1*  U   A 375     118.802  71.820  18.146  1.00 35.70      A16S
ATOM   7842  N1   U   A 375     119.154  70.456  18.585  1.00 38.59      A16S
ATOM   7843  C6   U   A 375     118.676  69.920  19.762  1.00 38.59      A16S
ATOM   7844  C2   U   A 375     119.986  69.717  17.766  1.00 38.59      A16S
ATOM   7845  O2   U   A 375     120.418  70.136  16.705  1.00 38.59      A16S
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ATOM   7846  N3  U   A 375     120.282  68.464  18.226  1.00 38.59      A16S
ATOM   7847  C4  U   A 375     119.838  67.878  19.377  1.00 38.59      A16S
ATOM   7848  O4  U   A 375     120.190  66.734  19.637  1.00 38.59      A16S
ATOM   7849  C5  U   A 375     118.978  68.690  20.168  1.00 38.59      A16S
ATOM   7850  C2* U   A 375     117.706  71.803  17.082  1.00 35.70      A16S
ATOM   7851  O2* U   A 375     117.882  72.889  16.201  1.00 35.70      A16S
ATOM   7852  C3* U   A 375     116.459  71.974  17.928  1.00 35.70      A16S
ATOM   7853  O3* U   A 375     115.403  72.498  17.147  1.00 35.70      A16S
ATOM   7854  P   G   A 376     114.429  71.483  16.375  1.00 35.91      A16S
ATOM   7855  O1P G   A 376     113.442  72.257  15.578  1.00 42.71      A16S
ATOM   7856  O2P G   A 376     113.954  70.504  17.385  1.00 42.71      A16S
ATOM   7857  O5* G   A 376     115.379  70.709  15.356  1.00 35.91      A16S
ATOM   7858  C5* G   A 376     115.991  71.381  14.237  1.00 35.91      A16S
ATOM   7859  C4* G   A 376     116.853  70.421  13.430  1.00 35.91      A16S
ATOM   7860  O4* G   A 376     118.066  70.063  14.150  1.00 35.91      A16S
ATOM   7861  C1* G   A 376     118.450  68.740  13.805  1.00 35.91      A16S
ATOM   7862  N9  G   A 376     118.479  67.931  15.022  1.00 42.71      A16S
ATOM   7863  C4  G   A 376     119.152  66.747  15.223  1.00 42.71      A16S
ATOM   7864  N3  G   A 376     119.965  66.139  14.347  1.00 42.71      A16S
ATOM   7865  C2  G   A 376     120.455  65.015  14.834  1.00 42.71      A16S
ATOM   7866  N2  G   A 376     121.313  64.295  14.119  1.00 42.71      A16S
ATOM   7867  N1  G   A 376     120.154  64.514  16.065  1.00 42.71      A16S
ATOM   7868  C6  G   A 376     119.312  65.115  16.983  1.00 42.71      A16S
ATOM   7869  O6  G   A 376     119.093  64.566  18.074  1.00 42.71      A16S
ATOM   7870  C5  G   A 376     118.800  66.337  16.488  1.00 42.71      A16S
ATOM   7871  N7  G   A 376     117.958  67.257  17.086  1.00 42.71      A16S
ATOM   7872  C8  G   A 376     117.801  68.185  16.185  1.00 42.71      A16S
ATOM   7873  C2* G   A 376     117.432  68.218  12.786  1.00 35.91      A16S
ATOM   7874  O2* G   A 376     117.879  68.458  11.474  1.00 35.91      A16S
ATOM   7875  C3* G   A 376     116.223  69.089  13.064  1.00 35.91      A16S
ATOM   7876  O3* G   A 376     115.425  69.188  11.905  1.00 35.91      A16S
ATOM   7877  P   G   A 377     114.342  68.050  11.599  1.00 34.75      A16S
ATOM   7878  O1P G   A 377     113.555  68.445  10.401  1.00 59.54      A16S
ATOM   7879  O2P G   A 377     113.648  67.715  12.870  1.00 59.54      A16S
ATOM   7880  O5* G   A 377     115.227  66.803  11.197  1.00 34.75      A16S
ATOM   7881  C5* G   A 377     115.928  66.786   9.965  1.00 34.75      A16S
ATOM   7882  C4* G   A 377     116.571  65.447   9.775  1.00 34.75      A16S
ATOM   7883  O4* G   A 377     117.595  65.250  10.779  1.00 34.75      A16S
ATOM   7884  C1* G   A 377     117.633  63.891  11.158  1.00 34.75      A16S
ATOM   7885  N9  G   A 377     117.407  63.831  12.598  1.00 59.54      A16S
ATOM   7886  C4  G   A 377     117.546  62.741  13.424  1.00 59.54      A16S
ATOM   7887  N3  G   A 377     117.930  61.508  13.056  1.00 59.54      A16S
ATOM   7888  C2  G   A 377     117.945  60.676  14.079  1.00 59.54      A16S
ATOM   7889  N2  G   A 377     118.298  59.405  13.903  1.00 59.54      A16S
ATOM   7890  N1  G   A 377     117.613  61.024  15.355  1.00 59.54      A16S
ATOM   7891  C6  G   A 377     117.220  62.289  15.756  1.00 59.54      A16S
ATOM   7892  O6  G   A 377     116.939  62.502  16.938  1.00 59.54      A16S
ATOM   7893  C5  G   A 377     117.200  63.190  14.677  1.00 59.54      A16S
ATOM   7894  N7  G   A 377     116.871  64.534  14.647  1.00 59.54      A16S
ATOM   7895  C8  G   A 377     117.007  64.870  13.397  1.00 59.54      A16S
ATOM   7896  C2* G   A 377     116.602  63.148  10.298  1.00 34.75      A16S
ATOM   7897  O2* G   A 377     117.255  62.679   9.133  1.00 34.75      A16S
ATOM   7898  C3* G   A 377     115.642  64.260   9.918  1.00 34.75      A16S
ATOM   7899  O3* G   A 377     115.051  64.019   8.659  1.00 34.75      A16S
ATOM   7900  P   G   A 378     113.803  63.027   8.534  1.00 37.67      A16S
ATOM   7901  O1P G   A 378     113.400  63.092   7.101  1.00 42.89      A16S
ATOM   7902  O2P G   A 378     112.810  63.340   9.579  1.00 42.89      A16S
ATOM   7903  O5* G   A 378     114.432  61.600   8.847  1.00 37.67      A16S
ATOM   7904  C5* G   A 378     115.225  60.922   7.853  1.00 37.67      A16S
ATOM   7905  C4* G   A 378     115.356  59.458   8.187  1.00 37.67      A16S
ATOM   7906  O4* G   A 378     116.272  59.271   9.294  1.00 37.67      A16S
ATOM   7907  C1* G   A 378     115.789  58.251  10.147  1.00 37.67      A16S
ATOM   7908  N9  G   A 378     115.493  58.859  11.440  1.00 42.89      A16S
ATOM   7909  C4  G   A 378     115.469  58.230  12.656  1.00 42.89      A16S
ATOM   7910  N3  G   A 378     115.714  56.928  12.878  1.00 42.89      A16S
ATOM   7911  C2  G   A 378     115.647  56.632  14.154  1.00 42.89      A16S
ATOM   7912  N2  G   A 378     115.898  55.396  14.565  1.00 42.89      A16S
ATOM   7913  N1  G   A 378     115.341  57.530  15.128  1.00 42.89      A16S
ATOM   7914  C6  G   A 378     115.086  58.875  14.924  1.00 42.89      A16S
ATOM   7915  O6  G   A 378     114.838  59.609  15.884  1.00 42.89      A16S
ATOM   7916  C5  G   A 378     115.165  59.212  13.567  1.00 42.89      A16S
ATOM   7917  N7  G   A 378     114.995  60.434  12.938  1.00 42.89      A16S
ATOM   7918  C8  G   A 378     115.193  60.176  11.678  1.00 42.89      A16S
ATOM   7919  C2* G   A 378     114.552  57.647   9.484  1.00 37.67      A16S
ATOM   7920  O2* G   A 378     114.976  56.565   8.687  1.00 37.67      A16S
ATOM   7921  C3* G   A 378     114.069  58.808   8.636  1.00 37.67      A16S
ATOM   7922  O3* G   A 378     113.330  58.390   7.528  1.00 37.67      A16S
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ATOM   7923  P    C   A 379     111.758  58.196   7.683  1.00 34.20      A16S
ATOM   7924  O1P  C   A 379     111.244  57.728   6.371  1.00 46.38      A16S
ATOM   7925  O2P  C   A 379     111.168  59.409   8.309  1.00 46.38      A16S
ATOM   7926  O5*  C   A 379     111.662  57.008   8.732  1.00 34.20      A16S
ATOM   7927  C5*  C   A 379     112.055  55.688   8.357  1.00 34.20      A16S
ATOM   7928  C4*  C   A 379     111.855  54.741   9.504  1.00 34.20      A16S
ATOM   7929  O4*  C   A 379     112.747  55.086  10.592  1.00 34.20      A16S
ATOM   7930  C1*  C   A 379     112.156  54.713  11.817  1.00 34.20      A16S
ATOM   7931  N1   C   A 379     112.094  55.896  12.688  1.00 46.38      A16S
ATOM   7932  C6   C   A 379     111.702  57.108  12.194  1.00 46.38      A16S
ATOM   7933  C2   C   A 379     112.421  55.763  14.046  1.00 46.38      A16S
ATOM   7934  O2   C   A 379     112.813  54.665  14.472  1.00 46.38      A16S
ATOM   7935  N3   C   A 379     112.306  56.838  14.857  1.00 46.38      A16S
ATOM   7936  C4   C   A 379     111.896  58.005  14.366  1.00 46.38      A16S
ATOM   7937  N4   C   A 379     111.770  59.022  15.205  1.00 46.38      A16S
ATOM   7938  C5   C   A 379     111.590  58.178  12.992  1.00 46.38      A16S
ATOM   7939  C2*  C   A 379     110.776  54.124  11.507  1.00 34.20      A16S
ATOM   7940  O2*  C   A 379     110.884  52.714  11.459  1.00 34.20      A16S
ATOM   7941  C3*  C   A 379     110.479  54.721  10.139  1.00 34.20      A16S
ATOM   7942  O3*  C   A 379     109.571  53.930   9.378  1.00 34.20      A16S
ATOM   7943  P    G   A 380     108.013  54.329   9.328  1.00 41.55      A16S
ATOM   7944  O1P  G   A 380     107.301  53.354   8.454  1.00 73.03      A16S
ATOM   7945  O2P  G   A 380     107.913  55.777   9.031  1.00 73.03      A16S
ATOM   7946  O5*  G   A 380     107.544  54.098  10.830  1.00 41.55      A16S
ATOM   7947  C5*  G   A 380     107.738  52.829  11.462  1.00 41.55      A16S
ATOM   7948  C4*  G   A 380     107.389  52.890  12.934  1.00 41.55      A16S
ATOM   7949  O4*  G   A 380     108.439  53.544  13.692  1.00 41.55      A16S
ATOM   7950  C1*  G   A 380     107.884  54.134  14.854  1.00 41.55      A16S
ATOM   7951  N9   G   A 380     108.084  55.582  14.809  1.00 73.03      A16S
ATOM   7952  C4   G   A 380     108.122  56.426  15.892  1.00 73.03      A16S
ATOM   7953  N3   G   A 380     108.072  56.054  17.184  1.00 73.03      A16S
ATOM   7954  C2   G   A 380     108.073  57.092  17.994  1.00 73.03      A16S
ATOM   7955  N2   G   A 380     108.047  56.901  19.311  1.00 73.03      A16S
ATOM   7956  N1   G   A 380     108.107  58.397  17.577  1.00 73.03      A16S
ATOM   7957  C6   G   A 380     108.155  58.811  16.253  1.00 73.03      A16S
ATOM   7958  O6   G   A 380     108.162  60.028  15.983  1.00 73.03      A16S
ATOM   7959  C5   G   A 380     108.176  57.699  15.364  1.00 73.03      A16S
ATOM   7960  N7   G   A 380     108.231  57.654  13.978  1.00 73.03      A16S
ATOM   7961  C8   G   A 380     108.190  56.380  13.694  1.00 73.03      A16S
ATOM   7962  C2*  G   A 380     106.385  53.827  14.840  1.00 41.55      A16S
ATOM   7963  O2*  G   A 380     106.147  52.650  15.589  1.00 41.55      A16S
ATOM   7964  C3*  G   A 380     106.120  53.613  13.355  1.00 41.55      A16S
ATOM   7965  O3*  G   A 380     104.937  52.848  13.142  1.00 41.55      A16S
ATOM   7966  P    C   A 381     103.645  53.545  12.483  1.00 38.06      A16S
ATOM   7967  O1P  C   A 381     104.096  54.228  11.252  1.00 70.60      A16S
ATOM   7968  O2P  C   A 381     102.546  52.542  12.402  1.00 70.60      A16S
ATOM   7969  O5*  C   A 381     103.219  54.666  13.522  1.00 38.06      A16S
ATOM   7970  C5*  C   A 381     102.371  55.740  13.096  1.00 38.06      A16S
ATOM   7971  C4*  C   A 381     101.525  56.249  14.238  1.00 38.06      A16S
ATOM   7972  O4*  C   A 381     100.588  55.224  14.666  1.00 38.06      A16S
ATOM   7973  C1*  C   A 381     100.395  55.313  16.072  1.00 38.06      A16S
ATOM   7974  N1   C   A 381     100.857  54.052  16.694  1.00 70.60      A16S
ATOM   7975  C6   C   A 381     101.298  53.009  15.930  1.00 70.60      A16S
ATOM   7976  C2   C   A 381     100.855  53.945  18.090  1.00 70.60      A16S
ATOM   7977  O2   C   A 381     100.426  54.889  18.764  1.00 70.60      A16S
ATOM   7978  N3   C   A 381     101.319  52.819  18.671  1.00 70.60      A16S
ATOM   7979  C4   C   A 381     101.763  51.818  17.917  1.00 70.60      A16S
ATOM   7980  N4   C   A 381     102.226  50.732  18.535  1.00 70.60      A16S
ATOM   7981  C5   C   A 381     101.756  51.886  16.495  1.00 70.60      A16S
ATOM   7982  C2*  C   A 381     101.202  56.523  16.563  1.00 38.06      A16S
ATOM   7983  O2*  C   A 381     100.419  57.707  16.583  1.00 38.06      A16S
ATOM   7984  C3*  C   A 381     102.276  56.629  15.499  1.00 38.06      A16S
ATOM   7985  O3*  C   A 381     102.805  57.934  15.470  1.00 38.06      A16S
ATOM   7986  P    A   A 382     104.141  58.244  16.293  1.00 45.63      A16S
ATOM   7987  O1P  A   A 382     104.310  59.714  16.363  1.00 66.90      A16S
ATOM   7988  O2P  A   A 382     105.217  57.411  15.705  1.00 66.90      A16S
ATOM   7989  O5*  A   A 382     103.841  57.716  17.765  1.00 45.63      A16S
ATOM   7990  C5*  A   A 382     103.034  58.474  18.686  1.00 45.63      A16S
ATOM   7991  C4*  A   A 382     103.058  57.820  20.050  1.00 45.63      A16S
ATOM   7992  O4*  A   A 382     102.604  56.451  19.902  1.00 45.63      A16S
ATOM   7993  C1*  A   A 382     103.386  55.589  20.715  1.00 45.63      A16S
ATOM   7994  N9   A   A 382     104.010  54.579  19.844  1.00 66.90      A16S
ATOM   7995  C4   A   A 382     104.572  53.378  20.215  1.00 66.90      A16S
ATOM   7996  N3   A   A 382     104.717  52.888  21.454  1.00 66.90      A16S
ATOM   7997  C2   A   A 382     105.271  51.674  21.420  1.00 66.90      A16S
ATOM   7998  N1   A   A 382     105.671  50.953  20.371  1.00 66.90      A16S
ATOM   7999  C6   A   A 382     105.512  51.472  19.140  1.00 66.90      A16S
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ATOM   8000  N6  A   A 382     105.901  50.748  18.090  1.00 66.90      A16S
ATOM   8001  C5  A   A 382     104.937  52.752  19.037  1.00 66.90      A16S
ATOM   8002  N7  A   A 382     104.643  53.553  17.946  1.00 66.90      A16S
ATOM   8003  C8  A   A 382     104.109  54.623  18.475  1.00 66.90      A16S
ATOM   8004  C2* A   A 382     104.328  56.461  21.549  1.00 45.63      A16S
ATOM   8005  O2* A   A 382     103.732  56.727  22.804  1.00 45.63      A16S
ATOM   8006  C3* A   A 382     104.435  57.717  20.692  1.00 45.63      A16S
ATOM   8007  O3* A   A 382     104.704  58.864  21.489  1.00 45.63      A16S
ATOM   8008  P   A   A 383     106.217  59.216  21.897  1.00 52.12      A16S
ATOM   8009  O1P A   A 383     106.227  60.546  22.556  1.00 91.62      A16S
ATOM   8010  O2P A   A 383     107.067  58.990  20.702  1.00 91.62      A16S
ATOM   8011  O5* A   A 383     106.584  58.144  23.019  1.00 52.12      A16S
ATOM   8012  C5* A   A 383     106.004  58.212  24.341  1.00 52.12      A16S
ATOM   8013  C4* A   A 383     106.302  56.946  25.100  1.00 52.12      A16S
ATOM   8014  O4* A   A 383     105.766  55.826  24.354  1.00 52.12      A16S
ATOM   8015  C1* A   A 383     106.664  54.731  24.418  1.00 52.12      A16S
ATOM   8016  N9  A   A 383     107.092  54.392  23.057  1.00 91.62      A16S
ATOM   8017  C4  A   A 383     107.630  53.195  22.656  1.00 91.62      A16S
ATOM   8018  N3  A   A 383     107.870  52.117  23.416  1.00 91.62      A16S
ATOM   8019  C2  A   A 383     108.377  51.135  22.682  1.00 91.62      A16S
ATOM   8020  N1  A   A 383     108.652  51.110  21.373  1.00 91.62      A16S
ATOM   8021  C6  A   A 383     108.402  52.213  20.642  1.00 91.62      A16S
ATOM   8022  N6  A   A 383     108.679  52.191  19.340  1.00 91.62      A16S
ATOM   8023  C5  A   A 383     107.863  53.322  21.302  1.00 91.62      A16S
ATOM   8024  N7  A   A 383     107.489  54.576  20.855  1.00 91.62      A16S
ATOM   8025  C8  A   A 383     107.044  55.172  21.931  1.00 91.62      A16S
ATOM   8026  C2* A   A 383     107.830  55.130  25.321  1.00 52.12      A16S
ATOM   8027  O2* A   A 383     107.619  54.639  26.627  1.00 52.12      A16S
ATOM   8028  C3* A   A 383     107.782  56.647  25.242  1.00 52.12      A16S
ATOM   8029  O3* A   A 383     108.287  57.204  26.432  1.00 52.12      A16S
ATOM   8030  P   G   A 384     109.747  57.865  26.444  1.00 51.24      A16S
ATOM   8031  O1P G   A 384     110.225  57.771  27.856  1.00 62.67      A16S
ATOM   8032  O2P G   A 384     109.658  59.196  25.777  1.00 62.67      A16S
ATOM   8033  O5* G   A 384     110.643  56.922  25.522  1.00 51.24      A16S
ATOM   8034  C5* G   A 384     110.992  55.609  25.956  1.00 51.24      A16S
ATOM   8035  C4* G   A 384     111.386  54.742  24.785  1.00 51.24      A16S
ATOM   8036  O4* G   A 384     110.451  54.927  23.692  1.00 51.24      A16S
ATOM   8037  C1* G   A 384     111.092  54.624  22.473  1.00 51.24      A16S
ATOM   8038  N9  G   A 384     110.979  55.761  21.570  1.00 62.67      A16S
ATOM   8039  C4  G   A 384     111.195  55.738  20.214  1.00 62.67      A16S
ATOM   8040  N3  G   A 384     111.518  54.650  19.479  1.00 62.67      A16S
ATOM   8041  C2  G   A 384     111.677  54.948  18.201  1.00 62.67      A16S
ATOM   8042  N2  G   A 384     111.988  53.988  17.327  1.00 62.67      A16S
ATOM   8043  N1  G   A 384     111.540  56.213  17.687  1.00 62.67      A16S
ATOM   8044  C6  G   A 384     111.211  57.344  18.425  1.00 62.67      A16S
ATOM   8045  O6  G   A 384     111.116  58.436  17.862  1.00 62.67      A16S
ATOM   8046  C5  G   A 384     111.028  57.037  19.796  1.00 62.67      A16S
ATOM   8047  N7  G   A 384     110.690  57.854  20.861  1.00 62.67      A16S
ATOM   8048  C8  G   A 384     110.670  57.054  21.891  1.00 62.67      A16S
ATOM   8049  C2* G   A 384     112.549  54.292  22.791  1.00 51.24      A16S
ATOM   8050  O2* G   A 384     112.663  52.890  22.914  1.00 51.24      A16S
ATOM   8051  C3* G   A 384     112.740  54.962  24.141  1.00 51.24      A16S
ATOM   8052  O3* G   A 384     113.772  54.298  24.854  1.00 51.24      A16S
ATOM   8053  P   C   A 385     115.304  54.694  24.576  1.00 44.52      A16S
ATOM   8054  O1P C   A 385     116.184  53.980  25.532  1.00 53.43      A16S
ATOM   8055  O2P C   A 385     115.383  56.170  24.472  1.00 53.43      A16S
ATOM   8056  O5* C   A 385     115.603  54.102  23.134  1.00 44.52      A16S
ATOM   8057  C5* C   A 385     115.584  52.690  22.909  1.00 44.52      A16S
ATOM   8058  C4* C   A 385     115.989  52.390  21.494  1.00 44.52      A16S
ATOM   8059  O4* C   A 385     114.970  52.853  20.571  1.00 44.52      A16S
ATOM   8060  C1* C   A 385     115.583  53.355  19.400  1.00 44.52      A16S
ATOM   8061  N1  C   A 385     115.219  54.774  19.254  1.00 53.43      A16S
ATOM   8062  C6  C   A 385     114.891  55.533  20.340  1.00 53.43      A16S
ATOM   8063  C2  C   A 385     115.211  55.338  17.975  1.00 53.43      A16S
ATOM   8064  O2  C   A 385     115.554  54.641  17.008  1.00 53.43      A16S
ATOM   8065  N3  C   A 385     114.842  56.630  17.825  1.00 53.43      A16S
ATOM   8066  C4  C   A 385     114.511  57.355  18.888  1.00 53.43      A16S
ATOM   8067  N4  C   A 385     114.143  58.613  18.689  1.00 53.43      A16S
ATOM   8068  C5  C   A 385     114.537  56.816  20.203  1.00 53.43      A16S
ATOM   8069  C2* C   A 385     117.091  53.153  19.545  1.00 44.52      A16S
ATOM   8070  O2* C   A 385     117.466  51.934  18.942  1.00 44.52      A16S
ATOM   8071  C3* C   A 385     117.247  53.100  21.051  1.00 44.52      A16S
ATOM   8072  O3* C   A 385     118.403  52.400  21.435  1.00 44.52      A16S
ATOM   8073  P   C   A 386     119.753  53.218  21.672  1.00 40.28      A16S
ATOM   8074  O1P C   A 386     120.792  52.277  22.166  1.00 72.13      A16S
ATOM   8075  O2P C   A 386     119.392  54.407  22.492  1.00 72.13      A16S
ATOM   8076  O5* C   A 386     120.162  53.683  20.204  1.00 40.28      A16S
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ATOM   8077  C5* C   A 386     120.547  52.712  19.222  1.00 40.28      A16S
ATOM   8078  C4* C   A 386     120.835  53.370  17.894  1.00 40.28      A16S
ATOM   8079  O4* C   A 386     119.603  53.806  17.271  1.00 40.28      A16S
ATOM   8080  C1* C   A 386     119.859  54.943  16.474  1.00 40.28      A16S
ATOM   8081  N1  C   A 386     119.045  56.057  16.975  1.00 72.13      A16S
ATOM   8082  C6  C   A 386     118.914  56.281  18.315  1.00 72.13      A16S
ATOM   8083  C2  C   A 386     118.433  56.899  16.061  1.00 72.13      A16S
ATOM   8084  O2  C   A 386     118.523  56.643  14.857  1.00 72.13      A16S
ATOM   8085  N3  C   A 386     117.748  57.969  16.509  1.00 72.13      A16S
ATOM   8086  C4  C   A 386     117.642  58.192  17.817  1.00 72.13      A16S
ATOM   8087  N4  C   A 386     116.962  59.263  18.214  1.00 72.13      A16S
ATOM   8088  C5  C   A 386     118.228  57.328  18.774  1.00 72.13      A16S
ATOM   8089  C2* C   A 386     121.355  55.251  16.567  1.00 40.28      A16S
ATOM   8090  O2* C   A 386     122.042  54.635  15.500  1.00 40.28      A16S
ATOM   8091  C3* C   A 386     121.727  54.600  17.886  1.00 40.28      A16S
ATOM   8092  O3* C   A 386     123.106  54.274  17.900  1.00 40.28      A16S
ATOM   8093  P   U   A 387     124.143  55.274  18.608  1.00 47.92      A16S
ATOM   8094  O1P U   A 387     125.529  54.709  18.488  1.00 66.69      A16S
ATOM   8095  O2P U   A 387     123.584  55.551  19.952  1.00 66.69      A16S
ATOM   8096  O5* U   A 387     124.029  56.614  17.745  1.00 47.92      A16S
ATOM   8097  C5* U   A 387     124.122  56.568  16.308  1.00 47.92      A16S
ATOM   8098  C4* U   A 387     123.895  57.934  15.685  1.00 47.92      A16S
ATOM   8099  O4* U   A 387     122.498  58.340  15.713  1.00 47.92      A16S
ATOM   8100  C1* U   A 387     122.419  59.753  15.643  1.00 47.92      A16S
ATOM   8101  N1  U   A 387     121.662  60.270  16.791  1.00 66.69      A16S
ATOM   8102  C6  U   A 387     121.988  59.940  18.089  1.00 66.69      A16S
ATOM   8103  C2  U   A 387     120.627  61.135  16.524  1.00 66.69      A16S
ATOM   8104  O2  U   A 387     120.291  61.429  15.391  1.00 66.69      A16S
ATOM   8105  N3  U   A 387     120.002  61.651  17.634  1.00 66.69      A16S
ATOM   8106  C4  U   A 387     120.299  61.387  18.955  1.00 66.69      A16S
ATOM   8107  O4  U   A 387     119.697  61.989  19.844  1.00 66.69      A16S
ATOM   8108  C5  U   A 387     121.360  60.458  19.149  1.00 66.69      A16S
ATOM   8109  C2* U   A 387     123.846  60.288  15.662  1.00 47.92      A16S
ATOM   8110  O2* U   A 387     124.214  60.575  14.330  1.00 47.92      A16S
ATOM   8111  C3* U   A 387     124.608  59.120  16.282  1.00 47.92      A16S
ATOM   8112  O3* U   A 387     125.979  59.127  15.977  1.00 47.92      A16S
ATOM   8113  P   G   A 388     127.037  59.223  17.179  1.00 48.95      A16S
ATOM   8114  O1P G   A 388     127.532  57.857  17.468  1.00 57.79      A16S
ATOM   8115  O2P G   A 388     126.434  60.023  18.274  1.00 57.79      A16S
ATOM   8116  O5* G   A 388     128.239  60.047  16.548  1.00 48.95      A16S
ATOM   8117  C5* G   A 388     128.208  61.471  16.527  1.00 48.95      A16S
ATOM   8118  C4* G   A 388     129.582  61.999  16.251  1.00 48.95      A16S
ATOM   8119  O4* G   A 388     130.500  61.447  17.230  1.00 48.95      A16S
ATOM   8120  C1* G   A 388     131.543  60.757  16.575  1.00 48.95      A16S
ATOM   8121  N9  G   A 388     131.858  59.574  17.364  1.00 57.79      A16S
ATOM   8122  C4  G   A 388     132.980  59.367  18.125  1.00 57.79      A16S
ATOM   8123  N3  G   A 388     133.997  60.233  18.290  1.00 57.79      A16S
ATOM   8124  C2  G   A 388     134.926  59.751  19.099  1.00 57.79      A16S
ATOM   8125  N2  G   A 388     136.008  60.482  19.390  1.00 57.79      A16S
ATOM   8126  N1  G   A 388     134.862  58.517  19.687  1.00 57.79      A16S
ATOM   8127  C6  G   A 388     133.825  57.608  19.523  1.00 57.79      A16S
ATOM   8128  O6  G   A 388     133.868  56.511  20.092  1.00 57.79      A16S
ATOM   8129  C5  G   A 388     132.823  58.114  18.674  1.00 57.79      A16S
ATOM   8130  N7  G   A 388     131.627  57.546  18.271  1.00 57.79      A16S
ATOM   8131  C8  G   A 388     131.089  58.445  17.496  1.00 57.79      A16S
ATOM   8132  C2* G   A 388     131.021  60.428  15.179  1.00 48.95      A16S
ATOM   8133  O2* G   A 388     132.088  60.320  14.269  1.00 48.95      A16S
ATOM   8134  C3* G   A 388     130.135  61.629  14.886  1.00 48.95      A16S
ATOM   8135  O3* G   A 388     130.950  62.702  14.458  1.00 48.95      A16S
ATOM   8136  P   A   A 389     130.680  63.387  13.041  1.00 40.31      A16S
ATOM   8137  O1P A   A 389     130.752  62.309  12.005  1.00 34.89      A16S
ATOM   8138  O2P A   A 389     131.593  64.553  12.962  1.00 34.89      A16S
ATOM   8139  O5* A   A 389     129.186  63.952  13.127  1.00 40.31      A16S
ATOM   8140  C5* A   A 389     128.503  64.297  11.916  1.00 40.31      A16S
ATOM   8141  C4* A   A 389     127.352  65.261  12.143  1.00 40.31      A16S
ATOM   8142  O4* A   A 389     126.144  64.589  12.557  1.00 40.31      A16S
ATOM   8143  C1* A   A 389     125.224  65.551  13.017  1.00 40.31      A16S
ATOM   8144  N9  A   A 389     124.753  65.178  14.349  1.00 34.89      A16S
ATOM   8145  C4  A   A 389     123.801  65.853  15.066  1.00 34.89      A16S
ATOM   8146  N3  A   A 389     123.137  66.951  14.688  1.00 34.89      A16S
ATOM   8147  C2  A   A 389     122.298  67.330  15.632  1.00 34.89      A16S
ATOM   8148  N1  A   A 389     122.050  66.773  16.819  1.00 34.89      A16S
ATOM   8149  C6  A   A 389     122.730  65.669  17.169  1.00 34.89      A16S
ATOM   8150  N6  A   A 389     122.465  65.115  18.357  1.00 34.89      A16S
ATOM   8151  C5  A   A 389     123.668  65.173  16.255  1.00 34.89      A16S
ATOM   8152  N7  A   A 389     124.525  64.089  16.293  1.00 34.89      A16S
ATOM   8153  C8  A   A 389     125.140  64.134  15.140  1.00 34.89      A16S
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ATOM   8154  C2* A   A 389     125.942  66.898  13.009  1.00 40.31      A16S
ATOM   8155  O2* A   A 389     125.643  67.515  11.774  1.00 40.31      A16S
ATOM   8156  C3* A   A 389     127.411  66.497  13.022  1.00 40.31      A16S
ATOM   8157  O3* A   A 389     128.110  67.561  12.397  1.00 40.31      A16S
ATOM   8158  P    C   A 390     128.536  68.870  13.244  1.00 53.29      A16S
ATOM   8159  O1P C   A 390     128.350  70.014  12.323  1.00 36.25      A16S
ATOM   8160  O2P C   A 390     129.868  68.635  13.844  1.00 36.25      A16S
ATOM   8161  O5* C   A 390     127.483  68.995  14.439  1.00 53.29      A16S
ATOM   8162  C5* C   A 390     126.330  69.867  14.343  1.00 53.29      A16S
ATOM   8163  C4* C   A 390     125.456  69.729  15.571  1.00 53.29      A16S
ATOM   8164  O4* C   A 390     125.217  68.320  15.806  1.00 53.29      A16S
ATOM   8165  C1* C   A 390     125.194  68.061  17.192  1.00 53.29      A16S
ATOM   8166  N1   C   A 390     126.321  67.173  17.513  1.00 36.25      A16S
ATOM   8167  C6   C   A 390     127.442  67.172  16.739  1.00 36.25      A16S
ATOM   8168  C2   C   A 390     126.248  66.359  18.639  1.00 36.25      A16S
ATOM   8169  O2   C   A 390     125.205  66.333  19.291  1.00 36.25      A16S
ATOM   8170  N3   C   A 390     127.317  65.617  18.992  1.00 36.25      A16S
ATOM   8171  C4   C   A 390     128.425  65.659  18.253  1.00 36.25      A16S
ATOM   8172  N4   C   A 390     129.481  64.949  18.654  1.00 36.25      A16S
ATOM   8173  C5   C   A 390     128.508  66.441  17.071  1.00 36.25      A16S
ATOM   8174  C2* C   A 390     125.311  69.406  17.913  1.00 53.29      A16S
ATOM   8175  O2* C   A 390     124.016  69.914  18.160  1.00 53.29      A16S
ATOM   8176  C3* C   A 390     126.032  70.254  16.880  1.00 53.29      A16S
ATOM   8177  O3* C   A 390     125.677  71.623  17.060  1.00 53.29      A16S
ATOM   8178  P    G   A 391     126.715  72.656  17.726  1.00 37.86      A16S
ATOM   8179  O1P G   A 391     126.300  73.983  17.222  1.00 53.48      A16S
ATOM   8180  O2P G   A 391     128.111  72.193  17.523  1.00 53.48      A16S
ATOM   8181  O5* G   A 391     126.410  72.599  19.283  1.00 37.86      A16S
ATOM   8182  C5* G   A 391     125.096  72.879  19.797  1.00 37.86      A16S
ATOM   8183  C4* G   A 391     124.962  72.326  21.196  1.00 37.86      A16S
ATOM   8184  O4* G   A 391     124.941  70.872  21.162  1.00 37.86      A16S
ATOM   8185  C1* G   A 391     125.661  70.355  22.270  1.00 37.86      A16S
ATOM   8186  N9   G   A 391     126.749  69.531  21.754  1.00 53.48      A16S
ATOM   8187  C4   G   A 391     127.501  68.633  22.464  1.00 53.48      A16S
ATOM   8188  N3   G   A 391     127.373  68.359  23.771  1.00 53.48      A16S
ATOM   8189  C2   G   A 391     128.237  67.448  24.173  1.00 53.48      A16S
ATOM   8190  N2   G   A 391     128.246  67.065  25.457  1.00 53.48      A16S
ATOM   8191  N1   G   A 391     129.154  66.849  23.353  1.00 53.48      A16S
ATOM   8192  C6   G   A 391     129.309  67.119  22.002  1.00 53.48      A16S
ATOM   8193  O6   G   A 391     130.183  66.530  21.355  1.00 53.48      A16S
ATOM   8194  C5   G   A 391     128.384  68.098  21.558  1.00 53.48      A16S
ATOM   8195  N7   G   A 391     128.195  68.654  20.303  1.00 53.48      A16S
ATOM   8196  C8   G   A 391     127.217  69.497  20.467  1.00 53.48      A16S
ATOM   8197  C2* G   A 391     126.138  71.537  23.118  1.00 37.86      A16S
ATOM   8198  O2* G   A 391     125.242  71.763  24.187  1.00 37.86      A16S
ATOM   8199  C3* G   A 391     126.128  72.670  22.100  1.00 37.86      A16S
ATOM   8200  O3* G   A 391     125.969  73.941  22.687  1.00 37.86      A16S
ATOM   8201  P    G   A 392     127.260  74.705  23.222  1.00 40.81      A16S
ATOM   8202  O1P G   A 392     126.860  76.023  23.782  1.00 55.28      A16S
ATOM   8203  O2P G   A 392     128.267  74.634  22.136  1.00 55.28      A16S
ATOM   8204  O5* G   A 392     127.755  73.771  24.403  1.00 40.81      A16S
ATOM   8205  C5* G   A 392     129.135  73.679  24.727  1.00 40.81      A16S
ATOM   8206  C4* G   A 392     129.345  72.583  25.724  1.00 40.81      A16S
ATOM   8207  O4* G   A 392     128.928  71.320  25.149  1.00 40.81      A16S
ATOM   8208  C1* G   A 392     129.789  70.289  25.596  1.00 40.81      A16S
ATOM   8209  N9   G   A 392     130.505  69.757  24.444  1.00 55.28      A16S
ATOM   8210  C4   G   A 392     131.416  68.741  24.472  1.00 55.28      A16S
ATOM   8211  N3   G   A 392     131.782  68.047  25.563  1.00 55.28      A16S
ATOM   8212  C2   G   A 392     132.701  67.156  25.286  1.00 55.28      A16S
ATOM   8213  N2   G   A 392     133.184  66.390  26.255  1.00 55.28      A16S
ATOM   8214  N1   G   A 392     133.217  66.951  24.038  1.00 55.28      A16S
ATOM   8215  C6   G   A 392     132.846  67.648  22.897  1.00 55.28      A16S
ATOM   8216  O6   G   A 392     133.367  67.376  21.808  1.00 55.28      A16S
ATOM   8217  C5   G   A 392     131.869  68.618  23.183  1.00 55.28      A16S
ATOM   8218  N7   G   A 392     131.243  69.532  22.352  1.00 55.28      A16S
ATOM   8219  C8   G   A 392     130.437  70.182  23.142  1.00 55.28      A16S
ATOM   8220  C2* G   A 392     130.783  70.913  26.576  1.00 40.81      A16S
ATOM   8221  O2* G   A 392     130.318  70.725  27.901  1.00 40.81      A16S
ATOM   8222  C3* G   A 392     130.787  72.361  26.116  1.00 40.81      A16S
ATOM   8223  O3* G   A 392     131.166  73.266  27.119  1.00 40.81      A16S
ATOM   8224  P    A   A 393     132.547  74.053  26.974  1.00 45.90      A16S
ATOM   8225  O1P A   A 393     132.467  75.301  27.776  1.00 71.84      A16S
ATOM   8226  O2P A   A 393     132.913  74.118  25.546  1.00 71.84      A16S
ATOM   8227  O5* A   A 393     133.594  73.098  27.675  1.00 45.90      A16S
ATOM   8228  C5* A   A 393     133.362  72.606  28.991  1.00 45.90      A16S
ATOM   8229  C4* A   A 393     134.099  71.315  29.175  1.00 45.90      A16S
ATOM   8230  O4* A   A 393     133.563  70.336  28.254  1.00 45.90      A16S
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ATOM	8231	C1*	A	A	393	134.600	69.479	27.817	1.00	45.90	A16S
ATOM	8232	N9	A	A	393	134.705	69.568	26.368	1.00	71.84	A16S
ATOM	8233	C4	A	A	393	135.541	68.810	25.598	1.00	71.84	A16S
ATOM	8234	N3	A	A	393	136.393	67.868	26.023	1.00	71.84	A16S
ATOM	8235	C2	A	A	393	137.041	67.337	24.997	1.00	71.84	A16S
ATOM	8236	N1	A	A	393	136.943	67.624	23.693	1.00	71.84	A16S
ATOM	8237	C6	A	A	393	136.074	68.580	23.307	1.00	71.84	A16S
ATOM	8238	N6	A	A	393	135.971	68.866	22.006	1.00	71.84	A16S
ATOM	8239	C5	A	A	393	135.329	69.216	24.301	1.00	71.84	A16S
ATOM	8240	N7	A	A	393	134.373	70.214	24.251	1.00	71.84	A16S
ATOM	8241	C8	A	A	393	134.036	70.386	25.503	1.00	71.84	A16S
ATOM	8242	C2*	A	A	393	135.892	69.922	28.494	1.00	45.90	A16S
ATOM	8243	O2*	A	A	393	136.105	69.128	29.641	1.00	45.90	A16S
ATOM	8244	C3*	A	A	393	135.575	71.368	28.832	1.00	45.90	A16S
ATOM	8245	O3*	A	A	393	136.349	71.839	29.909	1.00	45.90	A16S
ATOM	8246	P	G	A	394	137.824	72.388	29.631	1.00	52.10	A16S
ATOM	8247	O1P	G	A	394	138.477	72.542	30.955	1.00	52.40	A16S
ATOM	8248	O2P	G	A	394	137.745	73.548	28.708	1.00	52.40	A16S
ATOM	8249	O5*	G	A	394	138.527	71.187	28.864	1.00	52.10	A16S
ATOM	8250	C5*	G	A	394	138.809	69.959	29.547	1.00	52.10	A16S
ATOM	8251	C4*	G	A	394	139.824	69.159	28.779	1.00	52.10	A16S
ATOM	8252	O4*	G	A	394	139.231	68.587	27.586	1.00	52.10	A16S
ATOM	8253	C1*	G	A	394	140.229	68.479	26.583	1.00	52.10	A16S
ATOM	8254	N9	G	A	394	139.757	69.089	25.342	1.00	52.40	A16S
ATOM	8255	C4	G	A	394	140.345	68.932	24.123	1.00	52.40	A16S
ATOM	8256	N3	G	A	394	141.466	68.237	23.885	1.00	52.40	A16S
ATOM	8257	C2	G	A	394	141.800	68.255	22.615	1.00	52.40	A16S
ATOM	8258	N2	G	A	394	142.913	67.623	22.213	1.00	52.40	A16S
ATOM	8259	N1	G	A	394	141.079	68.894	21.644	1.00	52.40	A16S
ATOM	8260	C6	G	A	394	139.918	69.619	21.858	1.00	52.40	A16S
ATOM	8261	O6	G	A	394	139.344	70.162	20.891	1.00	52.40	A16S
ATOM	8262	C5	G	A	394	139.555	69.619	23.239	1.00	52.40	A16S
ATOM	8263	N7	G	A	394	138.497	70.222	23.898	1.00	52.40	A16S
ATOM	8264	C8	G	A	394	138.663	69.888	25.146	1.00	52.40	A16S
ATOM	8265	C2*	G	A	394	141.521	69.098	27.117	1.00	52.10	A16S
ATOM	8266	O2*	G	A	394	142.391	68.075	27.547	1.00	52.10	A16S
ATOM	8267	C3*	G	A	394	140.999	69.959	28.256	1.00	52.10	A16S
ATOM	8268	O3*	G	A	394	141.961	70.211	29.249	1.00	52.10	A16S
ATOM	8269	P	C	A	395	142.722	71.616	29.243	1.00	43.69	A16S
ATOM	8270	O1P	C	A	395	143.483	71.775	30.510	1.00	45.99	A16S
ATOM	8271	O2P	C	A	395	141.737	72.658	28.847	1.00	45.99	A16S
ATOM	8272	O5*	C	A	395	143.807	71.409	28.100	1.00	43.69	A16S
ATOM	8273	C5*	C	A	395	144.864	70.462	28.291	1.00	43.69	A16S
ATOM	8274	C4*	C	A	395	145.601	70.241	27.005	1.00	43.69	A16S
ATOM	8275	O4*	C	A	395	144.693	69.705	26.019	1.00	43.69	A16S
ATOM	8276	C1*	C	A	395	145.059	70.182	24.735	1.00	43.69	A16S
ATOM	8277	N1	C	A	395	143.896	70.834	24.115	1.00	45.99	A16S
ATOM	8278	C6	C	A	395	142.806	71.208	24.854	1.00	45.99	A16S
ATOM	8279	C2	C	A	395	143.932	71.068	22.750	1.00	45.99	A16S
ATOM	8280	O2	C	A	395	144.923	70.697	22.110	1.00	45.99	A16S
ATOM	8281	N3	C	A	395	142.891	71.687	22.158	1.00	45.99	A16S
ATOM	8282	C4	C	A	395	141.837	72.059	22.884	1.00	45.99	A16S
ATOM	8283	N4	C	A	395	140.835	72.682	22.255	1.00	45.99	A16S
ATOM	8284	C5	C	A	395	141.763	71.815	24.284	1.00	45.99	A16S
ATOM	8285	C2*	C	A	395	146.263	71.110	24.890	1.00	43.69	A16S
ATOM	8286	O2*	C	A	395	147.441	70.398	24.575	1.00	43.69	A16S
ATOM	8287	C3*	C	A	395	146.170	71.487	26.361	1.00	43.69	A16S
ATOM	8288	O3*	C	A	395	147.436	71.760	26.902	1.00	43.69	A16S
ATOM	8289	P	G	A	396	147.914	73.276	27.039	1.00	54.64	A16S
ATOM	8290	O1P	G	A	396	149.178	73.254	27.825	1.00	53.93	A16S
ATOM	8291	O2P	G	A	396	146.770	74.100	27.501	1.00	53.93	A16S
ATOM	8292	O5*	G	A	396	148.253	73.697	25.549	1.00	54.64	A16S
ATOM	8293	C5*	G	A	396	149.450	73.235	24.927	1.00	54.64	A16S
ATOM	8294	C4*	G	A	396	149.591	73.862	23.577	1.00	54.64	A16S
ATOM	8295	O4*	G	A	396	148.574	73.337	22.696	1.00	54.64	A16S
ATOM	8296	C1*	G	A	396	148.133	74.352	21.821	1.00	54.64	A16S
ATOM	8297	N9	G	A	396	146.697	74.529	22.009	1.00	53.93	A16S
ATOM	8298	C4	G	A	396	145.809	74.972	21.067	1.00	53.93	A16S
ATOM	8299	N3	G	A	396	146.115	75.349	19.815	1.00	53.93	A16S
ATOM	8300	C2	G	A	396	145.045	75.707	19.136	1.00	53.93	A16S
ATOM	8301	N2	G	A	396	145.171	76.128	17.866	1.00	53.93	A16S
ATOM	8302	N1	G	A	396	143.771	75.687	19.647	1.00	53.93	A16S
ATOM	8303	C6	G	A	396	143.436	75.313	20.938	1.00	53.93	A16S
ATOM	8304	O6	G	A	396	142.257	75.347	21.301	1.00	53.93	A16S
ATOM	8305	C5	G	A	396	144.577	74.932	21.677	1.00	53.93	A16S
ATOM	8306	N7	G	A	396	144.692	74.495	22.986	1.00	53.93	A16S
ATOM	8307	C8	G	A	396	145.966	74.271	23.140	1.00	53.93	A16S

ATOM	8308	C2*	G	A	396	148.951	75.605	22.122	1.00	54.64	A16S
ATOM	8309	O2*	G	A	396	150.055	75.621	21.245	1.00	54.64	A16S
ATOM	8310	C3*	G	A	396	149.373	75.357	23.560	1.00	54.64	A16S
ATOM	8311	O3*	G	A	396	150.549	76.047	23.942	1.00	54.64	A16S
ATOM	8312	P	A	A	397	150.498	77.042	25.200	1.00	62.32	A16S
ATOM	8313	O1P	A	A	397	151.901	77.374	25.556	1.00	65.70	A16S
ATOM	8314	O2P	A	A	397	149.588	76.455	26.221	1.00	65.70	A16S
ATOM	8315	O5*	A	A	397	149.776	78.345	24.648	1.00	62.32	A16S
ATOM	8316	C5*	A	A	397	150.439	79.177	23.712	1.00	62.32	A16S
ATOM	8317	C4*	A	A	397	149.521	80.251	23.213	1.00	62.32	A16S
ATOM	8318	O4*	A	A	397	149.262	81.198	24.275	1.00	62.32	A16S
ATOM	8319	C1*	A	A	397	149.259	82.515	23.752	1.00	62.32	A16S
ATOM	8320	N9	A	A	397	150.280	83.301	24.455	1.00	65.70	A16S
ATOM	8321	C4	A	A	397	151.612	83.002	24.596	1.00	65.70	A16S
ATOM	8322	N3	A	A	397	152.262	81.946	24.098	1.00	65.70	A16S
ATOM	8323	C2	A	A	397	153.538	81.977	24.450	1.00	65.70	A16S
ATOM	8324	N1	A	A	397	154.189	82.869	25.193	1.00	65.70	A16S
ATOM	8325	C6	A	A	397	153.507	83.919	25.680	1.00	65.70	A16S
ATOM	8326	N6	A	A	397	154.162	84.807	26.430	1.00	65.70	A16S
ATOM	8327	C5	A	A	397	152.147	84.010	25.369	1.00	65.70	A16S
ATOM	8328	N7	A	A	397	151.179	84.947	25.693	1.00	65.70	A16S
ATOM	8329	C8	A	A	397	150.094	84.483	25.127	1.00	65.70	A16S
ATOM	8330	C2*	A	A	397	149.464	82.415	22.241	1.00	62.32	A16S
ATOM	8331	O2*	A	A	397	148.197	82.407	21.616	1.00	62.32	A16S
ATOM	8332	C3*	A	A	397	150.172	81.075	22.122	1.00	62.32	A16S
ATOM	8333	O3*	A	A	397	149.991	80.443	20.871	1.00	62.32	A16S
ATOM	8334	P	C	A	398	150.878	79.157	20.497	1.00	47.35	A16S
ATOM	8335	O1P	C	A	398	150.234	78.022	21.163	1.00	36.72	A16S
ATOM	8336	O2P	C	A	398	152.336	79.411	20.706	1.00	36.72	A16S
ATOM	8337	O5*	C	A	398	150.610	79.004	18.947	1.00	47.35	A16S
ATOM	8338	C5*	C	A	398	151.052	80.019	18.043	1.00	47.35	A16S
ATOM	8339	C4*	C	A	398	149.884	80.608	17.297	1.00	47.35	A16S
ATOM	8340	O4*	C	A	398	148.868	79.595	17.128	1.00	47.35	A16S
ATOM	8341	C1*	C	A	398	147.599	80.201	17.089	1.00	47.35	A16S
ATOM	8342	N1	C	A	398	146.805	79.696	18.207	1.00	36.72	A16S
ATOM	8343	C6	C	A	398	147.396	79.292	19.372	1.00	36.72	A16S
ATOM	8344	C2	C	A	398	145.417	79.659	18.067	1.00	36.72	A16S
ATOM	8345	O2	C	A	398	144.915	79.984	16.981	1.00	36.72	A16S
ATOM	8346	N3	C	A	398	144.660	79.263	19.108	1.00	36.72	A16S
ATOM	8347	C4	C	A	398	145.242	78.891	20.246	1.00	36.72	A16S
ATOM	8348	N4	C	A	398	144.452	78.520	21.249	1.00	36.72	A16S
ATOM	8349	C5	C	A	398	146.661	78.885	20.406	1.00	36.72	A16S
ATOM	8350	C2*	C	A	398	147.805	81.705	17.210	1.00	47.35	A16S
ATOM	8351	O2*	C	A	398	147.883	82.216	15.898	1.00	47.35	A16S
ATOM	8352	C3*	C	A	398	149.145	81.773	17.926	1.00	47.35	A16S
ATOM	8353	O3*	C	A	398	149.815	82.983	17.622	1.00	47.35	A16S
ATOM	8354	P	G	A	399	149.377	84.350	18.342	1.00	31.09	A16S
ATOM	8355	O1P	G	A	399	150.263	85.387	17.752	1.00	38.75	A16S
ATOM	8356	O2P	G	A	399	149.345	84.158	19.817	1.00	38.75	A16S
ATOM	8357	O5*	G	A	399	147.906	84.636	17.807	1.00	31.09	A16S
ATOM	8358	C5*	G	A	399	147.718	85.015	16.440	1.00	31.09	A16S
ATOM	8359	C4*	G	A	399	146.285	85.384	16.172	1.00	31.09	A16S
ATOM	8360	O4*	G	A	399	145.434	84.230	16.343	1.00	31.09	A16S
ATOM	8361	C1*	G	A	399	144.171	84.644	16.822	1.00	31.09	A16S
ATOM	8362	N9	G	A	399	143.916	83.965	18.089	1.00	38.75	A16S
ATOM	8363	C4	G	A	399	142.700	83.829	18.708	1.00	38.75	A16S
ATOM	8364	N3	G	A	399	141.538	84.338	18.278	1.00	38.75	A16S
ATOM	8365	C2	G	A	399	140.538	84.029	19.073	1.00	38.75	A16S
ATOM	8366	N2	G	A	399	139.314	84.489	18.800	1.00	38.75	A16S
ATOM	8367	N1	G	A	399	140.658	83.260	20.194	1.00	38.75	A16S
ATOM	8368	C6	G	A	399	141.847	82.719	20.663	1.00	38.75	A16S
ATOM	8369	O6	G	A	399	141.849	82.028	21.698	1.00	38.75	A16S
ATOM	8370	C5	G	A	399	142.940	83.064	19.823	1.00	38.75	A16S
ATOM	8371	N7	G	A	399	144.292	82.752	19.925	1.00	38.75	A16S
ATOM	8372	C8	G	A	399	144.831	83.313	18.879	1.00	38.75	A16S
ATOM	8373	C2*	G	A	399	144.187	86.168	16.928	1.00	31.09	A16S
ATOM	8374	O2*	G	A	399	143.635	86.695	15.736	1.00	31.09	A16S
ATOM	8375	C3*	G	A	399	145.678	86.449	17.061	1.00	31.09	A16S
ATOM	8376	O3*	G	A	399	146.026	87.744	16.595	1.00	31.09	A16S
ATOM	8377	P	C	A	400	146.153	88.962	17.638	1.00	35.42	A16S
ATOM	8378	O1P	C	A	400	146.645	90.104	16.806	1.00	37.02	A16S
ATOM	8379	O2P	C	A	400	146.931	88.543	18.834	1.00	37.02	A16S
ATOM	8380	O5*	C	A	400	144.643	89.218	18.087	1.00	35.42	A16S
ATOM	8381	C5*	C	A	400	143.707	89.737	17.143	1.00	35.42	A16S
ATOM	8382	C4*	C	A	400	142.347	89.873	17.757	1.00	35.42	A16S
ATOM	8383	O4*	C	A	400	141.767	88.567	17.923	1.00	35.42	A16S
ATOM	8384	C1*	C	A	400	140.930	88.565	19.059	1.00	35.42	A16S

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ATOM   8385  N1  C   A 400     141.460  87.601  20.032  1.00 37.02      A16S
ATOM   8386  C6  C   A 400     142.788  87.285  20.055  1.00 37.02      A16S
ATOM   8387  C2  C   A 400     140.586  87.024  20.947  1.00 37.02      A16S
ATOM   8388  O2  C   A 400     139.380  87.300  20.883  1.00 37.02      A16S
ATOM   8389  N3  C   A 400     141.068  86.178  21.875  1.00 37.02      A16S
ATOM   8390  C4  C   A 400     142.363  85.891  21.901  1.00 37.02      A16S
ATOM   8391  N4  C   A 400     142.800  85.066  22.850  1.00 37.02      A16S
ATOM   8392  C5  C   A 400     143.275  86.441  20.962  1.00 37.02      A16S
ATOM   8393  C2* C   A 400     140.927  89.976  19.635  1.00 35.42      A16S
ATOM   8394  O2* C   A 400     139.838  90.672  19.084  1.00 35.42      A16S
ATOM   8395  C3* C   A 400     142.250  90.524  19.126  1.00 35.42      A16S
ATOM   8396  O3* C   A 400     142.207  91.948  19.051  1.00 35.42      A16S
ATOM   8397  P   C   A 401     142.540  92.828  20.356  1.00 31.88      A16S
ATOM   8398  O1P C   A 401     142.447  94.253  19.959  1.00 47.61      A16S
ATOM   8399  O2P C   A 401     143.791  92.318  20.965  1.00 47.61      A16S
ATOM   8400  O5* C   A 401     141.334  92.507  21.340  1.00 31.88      A16S
ATOM   8401  C5* C   A 401     140.015  93.022  21.088  1.00 31.88      A16S
ATOM   8402  C4* C   A 401     139.108  92.723  22.258  1.00 31.88      A16S
ATOM   8403  O4* C   A 401     138.786  91.304  22.277  1.00 31.88      A16S
ATOM   8404  C1* C   A 401     138.741  90.840  23.619  1.00 31.88      A16S
ATOM   8405  N1  C   A 401     139.897  89.942  23.865  1.00 47.61      A16S
ATOM   8406  C6  C   A 401     141.078  90.101  23.194  1.00 47.61      A16S
ATOM   8407  C2  C   A 401     139.777  88.941  24.841  1.00 47.61      A16S
ATOM   8408  O2  C   A 401     138.685  88.778  25.399  1.00 47.61      A16S
ATOM   8409  N3  C   A 401     140.853  88.176  25.147  1.00 47.61      A16S
ATOM   8410  C4  C   A 401     142.007  88.368  24.509  1.00 47.61      A16S
ATOM   8411  N4  C   A 401     143.047  87.618  24.864  1.00 47.61      A16S
ATOM   8412  C5  C   A 401     142.148  89.346  23.483  1.00 47.61      A16S
ATOM   8413  C2* C   A 401     138.883  92.070  24.514  1.00 31.88      A16S
ATOM   8414  O2* C   A 401     137.624  92.651  24.790  1.00 31.88      A16S
ATOM   8415  C3* C   A 401     139.710  92.979  23.631  1.00 31.88      A16S
ATOM   8416  O3* C   A 401     139.660  94.319  24.078  1.00 31.88      A16S
ATOM   8417  P   G   A 402     140.659  94.787  25.248  1.00 37.76      A16S
ATOM   8418  O1P G   A 402     140.519  96.264  25.410  1.00 52.48      A16S
ATOM   8419  O2P G   A 402     142.006  94.205  24.984  1.00 52.48      A16S
ATOM   8420  O5* G   A 402     140.060  94.079  26.542  1.00 37.76      A16S
ATOM   8421  C5* G   A 402     138.750  94.411  27.009  1.00 37.76      A16S
ATOM   8422  C4* G   A 402     138.403  93.589  28.217  1.00 37.76      A16S
ATOM   8423  O4* G   A 402     138.410  92.189  27.845  1.00 37.76      A16S
ATOM   8424  C1* G   A 402     138.873  91.397  28.928  1.00 37.76      A16S
ATOM   8425  N9  G   A 402     140.129  90.764  28.531  1.00 52.48      A16S
ATOM   8426  C4  G   A 402     140.841  89.831  29.246  1.00 52.48      A16S
ATOM   8427  N3  G   A 402     140.472  89.279  30.420  1.00 52.48      A16S
ATOM   8428  C2  G   A 402     141.391  88.444  30.885  1.00 52.48      A16S
ATOM   8429  N2  G   A 402     141.176  87.790  32.032  1.00 52.48      A16S
ATOM   8430  N1  G   A 402     142.583  88.186  30.255  1.00 52.48      A16S
ATOM   8431  C6  G   A 402     142.986  88.748  29.048  1.00 52.48      A16S
ATOM   8432  O6  G   A 402     144.096  88.463  28.571  1.00 52.48      A16S
ATOM   8433  C5  G   A 402     141.999  89.628  28.529  1.00 52.48      A16S
ATOM   8434  N7  G   A 402     141.993  90.377  27.365  1.00 52.48      A16S
ATOM   8435  C8  G   A 402     140.863  91.025  27.402  1.00 52.48      A16S
ATOM   8436  C2* G   A 402     139.113  92.353  30.095  1.00 37.76      A16S
ATOM   8437  O2* G   A 402     137.964  92.431  30.915  1.00 37.76      A16S
ATOM   8438  C3* G   A 402     139.383  93.655  29.366  1.00 37.76      A16S
ATOM   8439  O3* G   A 402     139.205  94.767  30.204  1.00 37.76      A16S
ATOM   8440  P   C   A 403     140.490  95.411  30.913  1.00 37.84      A16S
ATOM   8441  O1P C   A 403     139.999  96.520  31.771  1.00 53.10      A16S
ATOM   8442  O2P C   A 403     141.525  95.677  29.879  1.00 53.10      A16S
ATOM   8443  O5* C   A 403     141.042  94.240  31.837  1.00 37.84      A16S
ATOM   8444  C5* C   A 403     140.238  93.745  32.906  1.00 37.84      A16S
ATOM   8445  C4* C   A 403     141.037  92.846  33.811  1.00 37.84      A16S
ATOM   8446  O4* C   A 403     141.272  91.564  33.171  1.00 37.84      A16S
ATOM   8447  C1* C   A 403     142.443  90.978  33.718  1.00 37.84      A16S
ATOM   8448  N1  C   A 403     143.423  90.701  32.648  1.00 53.10      A16S
ATOM   8449  C6  C   A 403     143.573  91.547  31.589  1.00 53.10      A16S
ATOM   8450  C2  C   A 403     144.232  89.566  32.760  1.00 53.10      A16S
ATOM   8451  O2  C   A 403     144.051  88.796  33.699  1.00 53.10      A16S
ATOM   8452  N3  C   A 403     145.189  89.337  31.842  1.00 53.10      A16S
ATOM   8453  C4  C   A 403     145.349  90.182  30.827  1.00 53.10      A16S
ATOM   8454  N4  C   A 403     146.322  89.927  29.946  1.00 53.10      A16S
ATOM   8455  C5  C   A 403     144.520  91.331  30.667  1.00 53.10      A16S
ATOM   8456  C2* C   A 403     143.029  91.978  34.715  1.00 37.84      A16S
ATOM   8457  O2* C   A 403     142.609  91.658  36.026  1.00 37.84      A16S
ATOM   8458  C3* C   A 403     142.426  93.289  34.234  1.00 37.84      A16S
ATOM   8459  O3* C   A 403     142.493  94.276  35.249  1.00 37.84      A16S
ATOM   8460  P   U   A 404     143.921  94.954  35.583  1.00 52.31      A16S
ATOM   8461  O1P U   A 404     143.708  96.093  36.512  1.00 51.23      A16S
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ATOM   8462  O2P U   A 404     144.632  95.184  34.303  1.00 51.23      A16S
ATOM   8463  O5* U   A 404     144.710  93.826  36.387  1.00 52.31      A16S
ATOM   8464  C5* U   A 404     144.179  93.317  37.627  1.00 52.31      A16S
ATOM   8465  C4* U   A 404     145.109  92.295  38.239  1.00 52.31      A16S
ATOM   8466  O4* U   A 404     145.185  91.112  37.409  1.00 52.31      A16S
ATOM   8467  C1* U   A 404     146.496  90.573  37.464  1.00 52.31      A16S
ATOM   8468  N1  U   A 404     147.071  90.610  36.109  1.00 51.23      A16S
ATOM   8469  C6  U   A 404     146.398  91.181  35.052  1.00 51.23      A16S
ATOM   8470  C2  U   A 404     148.326  90.078  35.938  1.00 51.23      A16S
ATOM   8471  O2  U   A 404     148.923  89.508  36.826  1.00 51.23      A16S
ATOM   8472  N3  U   A 404     148.854  90.235  34.684  1.00 51.23      A16S
ATOM   8473  C4  U   A 404     148.258  90.838  33.598  1.00 51.23      A16S
ATOM   8474  O4  U   A 404     148.933  91.077  32.596  1.00 51.23      A16S
ATOM   8475  C5  U   A 404     146.932  91.304  33.837  1.00 51.23      A16S
ATOM   8476  C2* U   A 404     147.306  91.426  38.443  1.00 52.31      A16S
ATOM   8477  O2* U   A 404     147.295  90.830  39.718  1.00 52.31      A16S
ATOM   8478  C3* U   A 404     146.544  92.740  38.410  1.00 52.31      A16S
ATOM   8479  O3* U   A 404     146.699  93.478  39.598  1.00 52.31      A16S
ATOM   8480  P   U   A 405     147.898  94.524  39.712  1.00 44.03      A16S
ATOM   8481  O1P U   A 405     147.720  95.198  41.026  1.00 64.96      A16S
ATOM   8482  O2P U   A 405     147.961  95.337  38.466  1.00 64.96      A16S
ATOM   8483  O5* U   A 405     149.171  93.584  39.797  1.00 44.03      A16S
ATOM   8484  C5* U   A 405     149.310  92.686  40.895  1.00 44.03      A16S
ATOM   8485  C4* U   A 405     150.644  92.005  40.841  1.00 44.03      A16S
ATOM   8486  O4* U   A 405     150.655  91.056  39.755  1.00 44.03      A16S
ATOM   8487  C1* U   A 405     151.919  91.078  39.128  1.00 44.03      A16S
ATOM   8488  N1  U   A 405     151.715  91.449  37.717  1.00 64.96      A16S
ATOM   8489  C6  U   A 405     150.602  92.152  37.316  1.00 64.96      A16S
ATOM   8490  C2  U   A 405     152.664  91.053  36.802  1.00 64.96      A16S
ATOM   8491  O2  U   A 405     153.681  90.461  37.116  1.00 64.96      A16S
ATOM   8492  N3  U   A 405     152.383  91.379  35.500  1.00 64.96      A16S
ATOM   8493  C4  U   A 405     151.280  92.052  35.030  1.00 64.96      A16S
ATOM   8494  O4  U   A 405     151.127  92.195  33.812  1.00 64.96      A16S
ATOM   8495  C5  U   A 405     150.361  92.459  36.041  1.00 64.96      A16S
ATOM   8496  C2* U   A 405     152.830  92.024  39.922  1.00 44.03      A16S
ATOM   8497  O2* U   A 405     153.593  91.291  40.866  1.00 44.03      A16S
ATOM   8498  C3* U   A 405     151.821  92.932  40.606  1.00 44.03      A16S
ATOM   8499  O3* U   A 405     152.299  93.380  41.865  1.00 44.03      A16S
ATOM   8500  P   G   A 406     153.498  94.443  41.944  1.00 54.45      A16S
ATOM   8501  O1P G   A 406     154.294  94.391  40.688  1.00 70.62      A16S
ATOM   8502  O2P G   A 406     154.164  94.191  43.244  1.00 70.62      A16S
ATOM   8503  O5* G   A 406     152.746  95.844  42.040  1.00 54.45      A16S
ATOM   8504  C5* G   A 406     151.792  96.206  41.042  1.00 54.45      A16S
ATOM   8505  C4* G   A 406     150.438  96.495  41.655  1.00 54.45      A16S
ATOM   8506  O4* G   A 406     150.106  95.517  42.671  1.00 54.45      A16S
ATOM   8507  C1* G   A 406     149.252  96.109  43.638  1.00 54.45      A16S
ATOM   8508  N9  G   A 406     149.871  95.999  44.959  1.00 70.62      A16S
ATOM   8509  C4  G   A 406     149.350  96.473  46.143  1.00 70.62      A16S
ATOM   8510  N3  G   A 406     148.168  97.103  46.292  1.00 70.62      A16S
ATOM   8511  C2  G   A 406     147.953  97.453  47.541  1.00 70.62      A16S
ATOM   8512  N2  G   A 406     146.830  98.093  47.861  1.00 70.62      A16S
ATOM   8513  N1  G   A 406     148.826  97.204  48.566  1.00 70.62      A16S
ATOM   8514  C6  G   A 406     150.051  96.558  48.433  1.00 70.62      A16S
ATOM   8515  O6  G   A 406     150.773  96.386  49.421  1.00 70.62      A16S
ATOM   8516  C5  G   A 406     150.293  96.176  47.101  1.00 70.62      A16S
ATOM   8517  N7  G   A 406     151.377  95.516  46.541  1.00 70.62      A16S
ATOM   8518  C8  G   A 406     151.083  95.427  45.272  1.00 70.62      A16S
ATOM   8519  C2* G   A 406     149.031  97.564  43.223  1.00 54.45      A16S
ATOM   8520  O2* G   A 406     147.824  97.629  42.494  1.00 54.45      A16S
ATOM   8521  C3* G   A 406     150.251  97.829  42.350  1.00 54.45      A16S
ATOM   8522  O3* G   A 406     149.993  98.838  41.388  1.00 54.45      A16S
ATOM   8523  P   G   A 407     150.651 100.288  41.562  1.00 55.80      A16S
ATOM   8524  O1P G   A 407     150.459 101.011  40.275  1.00 64.61      A16S
ATOM   8525  O2P G   A 407     152.024 100.116  42.111  1.00 64.61      A16S
ATOM   8526  O5* G   A 407     149.703 100.977  42.637  1.00 55.80      A16S
ATOM   8527  C5* G   A 407     148.345 101.272  42.287  1.00 55.80      A16S
ATOM   8528  C4* G   A 407     147.576 101.766  43.483  1.00 55.80      A16S
ATOM   8529  O4* G   A 407     147.435 100.701  44.454  1.00 55.80      A16S
ATOM   8530  C1* G   A 407     147.444 101.247  45.757  1.00 55.80      A16S
ATOM   8531  N9  G   A 407     148.582 100.681  46.475  1.00 64.61      A16S
ATOM   8532  C4  G   A 407     148.875 100.851  47.809  1.00 64.61      A16S
ATOM   8533  N3  G   A 407     148.166 101.585  48.687  1.00 64.61      A16S
ATOM   8534  C2  G   A 407     148.696 101.553  49.891  1.00 64.61      A16S
ATOM   8535  N2  G   A 407     148.117 102.228  50.886  1.00 64.61      A16S
ATOM   8536  N1  G   A 407     149.828 100.857  50.210  1.00 64.61      A16S
ATOM   8537  C6  G   A 407     150.571 100.093  49.324  1.00 64.61      A16S
ATOM   8538  O6  G   A 407     151.573  99.497  49.718  1.00 64.61      A16S
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ATOM   8539  C5  G   A 407     150.021 100.121  48.028  1.00 64.61      A16S
ATOM   8540  N7  G   A 407     150.450  99.512  46.856  1.00 64.61      A16S
ATOM   8541  C8  G   A 407     149.569  99.874  45.962  1.00 64.61      A16S
ATOM   8542  C2* G   A 407     147.525 102.769  45.619  1.00 55.80      A16S
ATOM   8543  O2* G   A 407     146.210 103.292  45.638  1.00 55.80      A16S
ATOM   8544  C3* G   A 407     148.188 102.917  44.256  1.00 55.80      A16S
ATOM   8545  O3* G   A 407     147.895 104.158  43.641  1.00 55.80      A16S
ATOM   8546  P   A   A 408     149.020 105.298  43.589  1.00 61.70      A16S
ATOM   8547  O1P A   A 408     148.556 106.306  42.615  1.00 67.69      A16S
ATOM   8548  O2P A   A 408     150.366 104.690  43.430  1.00 67.69      A16S
ATOM   8549  O5* A   A 408     148.948 105.951  45.035  1.00 61.70      A16S
ATOM   8550  C5* A   A 408     147.802 106.728  45.446  1.00 61.70      A16S
ATOM   8551  C4* A   A 408     147.938 107.118  46.900  1.00 61.70      A16S
ATOM   8552  O4* A   A 408     147.773 105.942  47.743  1.00 61.70      A16S
ATOM   8553  C1* A   A 408     148.663 106.018  48.842  1.00 61.70      A16S
ATOM   8554  N9  A   A 408     149.638 104.940  48.720  1.00 67.69      A16S
ATOM   8555  C4  A   A 408     150.461 104.476  49.719  1.00 67.69      A16S
ATOM   8556  N3  A   A 408     150.493 104.871  51.004  1.00 67.69      A16S
ATOM   8557  C2  A   A 408     151.447 104.224  51.673  1.00 67.69      A16S
ATOM   8558  N1  A   A 408     152.306 103.300  51.235  1.00 67.69      A16S
ATOM   8559  C6  A   A 408     152.244 102.927  49.938  1.00 67.69      A16S
ATOM   8560  N6  A   A 408     153.105 102.014  49.495  1.00 67.69      A16S
ATOM   8561  C5  A   A 408     151.273 103.534  49.127  1.00 67.69      A16S
ATOM   8562  N7  A   A 408     150.947 103.379  47.790  1.00 67.69      A16S
ATOM   8563  C8  A   A 408     149.968 104.227  47.604  1.00 67.69      A16S
ATOM   8564  C2* A   A 408     149.393 107.360  48.761  1.00 61.70      A16S
ATOM   8565  O2* A   A 408     148.749 108.327  49.565  1.00 61.70      A16S
ATOM   8566  C3* A   A 408     149.306 107.668  47.275  1.00 61.70      A16S
ATOM   8567  O3* A   A 408     149.450 109.050  47.000  1.00 61.70      A16S
ATOM   8568  P   G   A 409     150.919 109.676  46.886  1.00 68.61      A16S
ATOM   8569  O1P G   A 409     150.754 111.107  46.574  1.00 73.37      A16S
ATOM   8570  O2P G   A 409     151.724 108.824  45.993  1.00 73.37      A16S
ATOM   8571  O5* G   A 409     151.523 109.529  48.354  1.00 68.61      A16S
ATOM   8572  C5* G   A 409     150.992 110.291  49.470  1.00 68.61      A16S
ATOM   8573  C4* G   A 409     151.745 109.958  50.744  1.00 68.61      A16S
ATOM   8574  O4* G   A 409     151.668 108.529  50.954  1.00 68.61      A16S
ATOM   8575  C1* G   A 409     152.893 108.054  51.477  1.00 68.61      A16S
ATOM   8576  N9  G   A 409     153.404 107.019  50.585  1.00 73.37      A16S
ATOM   8577  C4  G   A 409     154.317 106.054  50.907  1.00 73.37      A16S
ATOM   8578  N3  G   A 409     154.903 105.892  52.104  1.00 73.37      A16S
ATOM   8579  C2  G   A 409     155.737 104.871  52.106  1.00 73.37      A16S
ATOM   8580  N2  G   A 409     156.402 104.557  53.219  1.00 73.37      A16S
ATOM   8581  N1  G   A 409     155.977 104.080  51.021  1.00 73.37      A16S
ATOM   8582  C6  G   A 409     155.380 104.230  49.780  1.00 73.37      A16S
ATOM   8583  O6  G   A 409     155.665 103.456  48.864  1.00 73.37      A16S
ATOM   8584  C5  G   A 409     154.484 105.313  49.763  1.00 73.37      A16S
ATOM   8585  N7  G   A 409     153.689 105.799  48.739  1.00 73.37      A16S
ATOM   8586  C8  G   A 409     153.068 106.813  49.270  1.00 73.37      A16S
ATOM   8587  C2* G   A 409     153.837 109.243  51.669  1.00 68.61      A16S
ATOM   8588  O2* G   A 409     153.812 109.637  53.022  1.00 68.61      A16S
ATOM   8589  C3* G   A 409     153.236 110.290  50.738  1.00 68.61      A16S
ATOM   8590  O3* G   A 409     153.449 111.608  51.259  1.00 68.61      A16S
ATOM   8591  P   G   A 410     154.768 112.437  50.848  1.00 67.88      A16S
ATOM   8592  O1P G   A 410     154.856 113.591  51.787  1.00105.16      A16S
ATOM   8593  O2P G   A 410     154.711 112.691  49.391  1.00105.16      A16S
ATOM   8594  O5* G   A 410     155.977 111.439  51.144  1.00 67.88      A16S
ATOM   8595  C5* G   A 410     156.355 111.143  52.494  1.00 67.88      A16S
ATOM   8596  C4* G   A 410     157.373 110.032  52.533  1.00 67.88      A16S
ATOM   8597  O4* G   A 410     156.803 108.801  52.025  1.00 67.88      A16S
ATOM   8598  C1* G   A 410     157.827 108.016  51.428  1.00 67.88      A16S
ATOM   8599  N9  G   A 410     157.439 107.690  50.057  1.00105.16      A16S
ATOM   8600  C4  G   A 410     157.904 106.635  49.304  1.00105.16      A16S
ATOM   8601  N3  G   A 410     158.783 105.695  49.710  1.00105.16      A16S
ATOM   8602  C2  G   A 410     159.043 104.817  48.756  1.00105.16      A16S
ATOM   8603  N2  G   A 410     159.890 103.810  48.984  1.00105.16      A16S
ATOM   8604  N1  G   A 410     158.492 104.859  47.505  1.00105.16      A16S
ATOM   8605  C6  G   A 410     157.584 105.812  47.064  1.00105.16      A16S
ATOM   8606  O6  G   A 410     157.142 105.753  45.908  1.00105.16      A16S
ATOM   8607  C5  G   A 410     157.290 106.762  48.078  1.00105.16      A16S
ATOM   8608  N7  G   A 410     156.444 107.863  48.062  1.00105.16      A16S
ATOM   8609  C8  G   A 410     156.561 108.379  49.254  1.00105.16      A16S
ATOM   8610  C2* G   A 410     159.135 108.812  51.503  1.00 67.88      A16S
ATOM   8611  O2* G   A 410     159.933 108.342  52.571  1.00 67.88      A16S
ATOM   8612  C3* G   A 410     158.630 110.236  51.711  1.00 67.88      A16S
ATOM   8613  O3* G   A 410     159.569 111.026  52.412  1.00 67.88      A16S
ATOM   8614  P   A   A 411     160.288 112.244  51.665  1.00 93.75      A16S
ATOM   8615  O1P A   A 411     160.013 113.467  52.452  1.00 76.06      A16S
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ATOM   8616  O2P A   A 411     159.915 112.205  50.236  1.00 76.06      A16S
ATOM   8617  O5* A   A 411     161.832 111.883  51.779  1.00 93.75      A16S
ATOM   8618  C5* A   A 411     162.515 111.965  53.040  1.00 93.75      A16S
ATOM   8619  C4* A   A 411     163.992 112.149  52.810  1.00 93.75      A16S
ATOM   8620  O4* A   A 411     164.495 110.964  52.143  1.00 93.75      A16S
ATOM   8621  C1* A   A 411     165.438 111.334  51.153  1.00 93.75      A16S
ATOM   8622  N9  A   A 411     164.873 110.962  49.852  1.00 76.06      A16S
ATOM   8623  C4  A   A 411     164.943 109.733  49.242  1.00 76.06      A16S
ATOM   8624  N3  A   A 411     165.537 108.622  49.706  1.00 76.06      A16S
ATOM   8625  C2  A   A 411     165.402 107.621  48.840  1.00 76.06      A16S
ATOM   8626  N1  A   A 411     164.787 107.604  47.656  1.00 76.06      A16S
ATOM   8627  C6  A   A 411     164.197 108.737  47.221  1.00 76.06      A16S
ATOM   8628  N6  A   A 411     163.569 108.724  46.041  1.00 76.06      A16S
ATOM   8629  C5  A   A 411     164.271 109.869  48.044  1.00 76.06      A16S
ATOM   8630  N7  A   A 411     163.779 111.158  47.898  1.00 76.06      A16S
ATOM   8631  C8  A   A 411     164.159 111.764  48.991  1.00 76.06      A16S
ATOM   8632  C2* A   A 411     165.680 112.843  51.288  1.00 93.75      A16S
ATOM   8633  O2* A   A 411     166.797 113.109  52.121  1.00 93.75      A16S
ATOM   8634  C3* A   A 411     164.357 113.303  51.885  1.00 93.75      A16S
ATOM   8635  O3* A   A 411     164.451 114.553  52.560  1.00 93.75      A16S
ATOM   8636  P   A   A 412     163.621 115.822  52.011  1.00 95.70      A16S
ATOM   8637  O1P A   A 412     163.432 116.759  53.146  1.00201.26      A16S
ATOM   8638  O2P A   A 412     162.432 115.330  51.260  1.00201.26      A16S
ATOM   8639  O5* A   A 412     164.601 116.513  50.966  1.00 95.70      A16S
ATOM   8640  C5* A   A 412     165.995 116.680  51.259  1.00 95.70      A16S
ATOM   8641  C4* A   A 412     166.806 116.461  50.009  1.00 95.70      A16S
ATOM   8642  O4* A   A 412     166.483 117.470  49.027  1.00 95.70      A16S
ATOM   8643  C1* A   A 412     167.556 117.571  48.121  1.00 95.70      A16S
ATOM   8644  N9  A   A 412     167.721 118.963  47.714  1.00201.26      A16S
ATOM   8645  C4  A   A 412     167.463 119.432  46.450  1.00201.26      A16S
ATOM   8646  N3  A   A 412     167.015 118.725  45.397  1.00201.26      A16S
ATOM   8647  C2  A   A 412     166.886 119.506  44.331  1.00201.26      A16S
ATOM   8648  N1  A   A 412     167.135 120.816  44.206  1.00201.26      A16S
ATOM   8649  C6  A   A 412     167.585 121.497  45.284  1.00201.26      A16S
ATOM   8650  N6  A   A 412     167.836 122.803  45.158  1.00201.26      A16S
ATOM   8651  C5  A   A 412     167.763 120.780  46.480  1.00201.26      A16S
ATOM   8652  N7  A   A 412     168.198 121.159  47.744  1.00201.26      A16S
ATOM   8653  C8  A   A 412     168.153 120.048  48.438  1.00201.26      A16S
ATOM   8654  C2* A   A 412     168.787 116.903  48.743  1.00 95.70      A16S
ATOM   8655  O2* A   A 412     169.130 115.754  47.997  1.00 95.70      A16S
ATOM   8656  C3* A   A 412     168.313 116.567  50.158  1.00 95.70      A16S
ATOM   8657  O3* A   A 412     168.801 115.293  50.553  1.00 95.70      A16S
ATOM   8658  P   G   A 413     170.352 115.097  50.907  1.00110.97      A16S
ATOM   8659  O1P G   A 413     170.527 115.527  52.316  1.00105.21      A16S
ATOM   8660  O2P G   A 413     171.200 115.703  49.840  1.00105.21      A16S
ATOM   8661  O5* G   A 413     170.526 113.517  50.870  1.00110.97      A16S
ATOM   8662  C5* G   A 413     170.655 112.815  49.618  1.00110.97      A16S
ATOM   8663  C4* G   A 413     169.466 111.909  49.399  1.00110.97      A16S
ATOM   8664  O4* G   A 413     168.317 112.679  48.987  1.00110.97      A16S
ATOM   8665  C1* G   A 413     167.428 111.826  48.310  1.00110.97      A16S
ATOM   8666  N9  G   A 413     166.687 112.578  47.300  1.00105.21      A16S
ATOM   8667  C4  G   A 413     166.118 112.100  46.135  1.00105.21      A16S
ATOM   8668  N3  G   A 413     166.195 110.839  45.668  1.00105.21      A16S
ATOM   8669  C2  G   A 413     165.519 110.691  44.540  1.00105.21      A16S
ATOM   8670  N2  G   A 413     165.492 109.513  43.929  1.00105.21      A16S
ATOM   8671  N1  G   A 413     164.820 111.688  43.923  1.00105.21      A16S
ATOM   8672  C6  G   A 413     164.723 112.990  44.378  1.00105.21      A16S
ATOM   8673  O6  G   A 413     164.059 113.810  43.738  1.00105.21      A16S
ATOM   8674  C5  G   A 413     165.450 113.175  45.587  1.00105.21      A16S
ATOM   8675  N7  G   A 413     165.618 114.309  46.368  1.00105.21      A16S
ATOM   8676  C8  G   A 413     166.365 113.911  47.362  1.00105.21      A16S
ATOM   8677  C2* G   A 413     168.177 110.553  47.912  1.00110.97      A16S
ATOM   8678  O2* G   A 413     167.655 109.514  48.702  1.00110.97      A16S
ATOM   8679  C3* G   A 413     169.623 110.868  48.304  1.00110.97      A16S
ATOM   8680  O3* G   A 413     170.200 109.739  48.955  1.00110.97      A16S
ATOM   8681  P   A   A 414     171.058 108.651  48.137  1.00 79.34      A16S
ATOM   8682  O1P A   A 414     172.420 109.208  47.941  1.00103.35      A16S
ATOM   8683  O2P A   A 414     170.291 108.171  46.964  1.00103.35      A16S
ATOM   8684  O5* A   A 414     171.158 107.459  49.193  1.00 79.34      A16S
ATOM   8685  C5* A   A 414     171.272 107.758  50.606  1.00 79.34      A16S
ATOM   8686  C4* A   A 414     171.370 106.495  51.432  1.00 79.34      A16S
ATOM   8687  O4* A   A 414     170.084 105.839  51.528  1.00 79.34      A16S
ATOM   8688  C1* A   A 414     170.276 104.438  51.623  1.00 79.34      A16S
ATOM   8689  N9  A   A 414     169.501 103.783  50.567  1.00103.35      A16S
ATOM   8690  C4  A   A 414     169.580 102.459  50.207  1.00103.35      A16S
ATOM   8691  N3  A   A 414     170.380 101.519  50.735  1.00103.35      A16S
ATOM   8692  C2  A   A 414     170.183 100.347  50.140  1.00103.35      A16S
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ATOM   8693  N1  A   A 414     169.341 100.030  49.149  1.00103.35      A16S
ATOM   8694  C6  A   A 414     168.549 100.997  48.642  1.00103.35      A16S
ATOM   8695  N6  A   A 414     167.703 100.675  47.659  1.00103.35      A16S
ATOM   8696  C5  A   A 414     168.664 102.289  49.188  1.00103.35      A16S
ATOM   8697  N7  A   A 414     168.020 103.483  48.906  1.00103.35      A16S
ATOM   8698  C8  A   A 414     168.552 104.335  49.745  1.00103.35      A16S
ATOM   8699  C2* A   A 414     171.783 104.156  51.561  1.00 79.34      A16S
ATOM   8700  O2* A   A 414     172.291 103.927  52.859  1.00 79.34      A16S
ATOM   8701  C3* A   A 414     172.319 105.431  50.920  1.00 79.34      A16S
ATOM   8702  O3* A   A 414     173.653 105.708  51.306  1.00 79.34      A16S
ATOM   8703  P   A   A 415     174.812 105.700  50.197  1.00 66.37      A16S
ATOM   8704  O1P A   A 415     175.969 106.470  50.726  1.00104.53      A16S
ATOM   8705  O2P A   A 415     174.206 106.092  48.897  1.00104.53      A16S
ATOM   8706  O5* A   A 415     175.237 104.171  50.084  1.00 66.37      A16S
ATOM   8707  C5* A   A 415     175.460 103.374  51.256  1.00 66.37      A16S
ATOM   8708  C4* A   A 415     175.169 101.925  50.957  1.00 66.37      A16S
ATOM   8709  O4* A   A 415     173.743 101.736  50.735  1.00 66.37      A16S
ATOM   8710  C1* A   A 415     173.542 100.754  49.728  1.00 66.37      A16S
ATOM   8711  N9  A   A 415     172.809 101.361  48.610  1.00104.53      A16S
ATOM   8712  C4  A   A 415     172.117 100.675  47.639  1.00104.53      A16S
ATOM   8713  N3  A   A 415     171.965  99.344  47.534  1.00104.53      A16S
ATOM   8714  C2  A   A 415     171.246  99.040  46.461  1.00104.53      A16S
ATOM   8715  N1  A   A 415     170.705  99.851  45.547  1.00104.53      A16S
ATOM   8716  C6  A   A 415     170.880 101.181  45.680  1.00104.53      A16S
ATOM   8717  N6  A   A 415     170.353 101.986  44.763  1.00104.53      A16S
ATOM   8718  C5  A   A 415     171.619 101.635  46.780  1.00104.53      A16S
ATOM   8719  N7  A   A 415     171.979 102.907  47.199  1.00104.53      A16S
ATOM   8720  C8  A   A 415     172.678 102.692  48.287  1.00104.53      A16S
ATOM   8721  C2* A   A 415     174.918 100.238  49.296  1.00 66.37      A16S
ATOM   8722  O2* A   A 415     175.219  99.026  49.959  1.00 66.37      A16S
ATOM   8723  C3* A   A 415     175.830 101.393  49.697  1.00 66.37      A16S
ATOM   8724  O3* A   A 415     177.171 100.984  49.925  1.00 66.37      A16S
ATOM   8725  P   G   A 416     178.228 101.050  48.721  1.00101.00      A16S
ATOM   8726  O1P G   A 416     179.540 100.554  49.207  1.00 93.14      A16S
ATOM   8727  O2P G   A 416     178.134 102.404  48.125  1.00 93.14      A16S
ATOM   8728  O5* G   A 416     177.662  99.996  47.670  1.00101.00      A16S
ATOM   8729  C5* G   A 416     177.618  98.587  47.984  1.00101.00      A16S
ATOM   8730  C4* G   A 416     176.889  97.826  46.897  1.00101.00      A16S
ATOM   8731  O4* G   A 416     175.490  98.213  46.885  1.00101.00      A16S
ATOM   8732  C1* G   A 416     175.019  98.262  45.551  1.00101.00      A16S
ATOM   8733  N9  G   A 416     174.638  99.641  45.258  1.00 93.14      A16S
ATOM   8734  C4  G   A 416     173.904 100.077  44.185  1.00 93.14      A16S
ATOM   8735  N3  G   A 416     173.417  99.304  43.194  1.00 93.14      A16S
ATOM   8736  C2  G   A 416     172.757 100.015  42.301  1.00 93.14      A16S
ATOM   8737  N2  G   A 416     172.220  99.409  41.233  1.00 93.14      A16S
ATOM   8738  N1  G   A 416     172.578 101.376  42.384  1.00 93.14      A16S
ATOM   8739  C6  G   A 416     173.073 102.189  43.396  1.00 93.14      A16S
ATOM   8740  O6  G   A 416     172.864 103.408  43.373  1.00 93.14      A16S
ATOM   8741  C5  G   A 416     173.789 101.442  44.351  1.00 93.14      A16S
ATOM   8742  N7  G   A 416     174.446 101.856  45.498  1.00 93.14      A16S
ATOM   8743  C8  G   A 416     174.936 100.758  46.002  1.00 93.14      A16S
ATOM   8744  C2* G   A 416     176.144  97.763  44.645  1.00101.00      A16S
ATOM   8745  O2* G   A 416     175.991  96.372  44.447  1.00101.00      A16S
ATOM   8746  C3* G   A 416     177.373  98.084  45.480  1.00101.00      A16S
ATOM   8747  O3* G   A 416     178.481  97.268  45.140  1.00101.00      A16S
ATOM   8748  P   C   A 417     179.652  97.875  44.223  1.00 87.81      A16S
ATOM   8749  O1P C   A 417     180.694  96.819  44.069  1.00 89.83      A16S
ATOM   8750  O2P C   A 417     180.031  99.210  44.759  1.00 89.83      A16S
ATOM   8751  O5* C   A 417     178.948  98.119  42.813  1.00 87.81      A16S
ATOM   8752  C5* C   A 417     178.618  97.014  41.937  1.00 87.81      A16S
ATOM   8753  C4* C   A 417     177.882  97.511  40.710  1.00 87.81      A16S
ATOM   8754  O4* C   A 417     176.594  98.049  41.103  1.00 87.81      A16S
ATOM   8755  C1* C   A 417     176.291  99.182  40.314  1.00 87.81      A16S
ATOM   8756  N1  C   A 417     176.216 100.355  41.195  1.00 89.83      A16S
ATOM   8757  C6  C   A 417     176.908 100.399  42.374  1.00 89.83      A16S
ATOM   8758  C2  C   A 417     175.439 101.439  40.797  1.00 89.83      A16S
ATOM   8759  O2  C   A 417     174.806 101.363  39.733  1.00 89.83      A16S
ATOM   8760  N3  C   A 417     175.393 102.542  41.577  1.00 89.83      A16S
ATOM   8761  C4  C   A 417     176.081 102.580  42.719  1.00 89.83      A16S
ATOM   8762  N4  C   A 417     176.004 103.688  43.458  1.00 89.83      A16S
ATOM   8763  C5  C   A 417     176.873 101.482  43.156  1.00 89.83      A16S
ATOM   8764  C2* C   A 417     177.402  99.343  39.278  1.00 87.81      A16S
ATOM   8765  O2* C   A 417     177.041  98.709  38.072  1.00 87.81      A16S
ATOM   8766  C3* C   A 417     178.562  98.644  39.962  1.00 87.81      A16S
ATOM   8767  O3* C   A 417     179.512  98.175  39.022  1.00 87.81      A16S
ATOM   8768  P   C   A 418     180.652  99.173  38.490  1.00 67.68      A16S
ATOM   8769  O1P C   A 418     181.207  99.884  39.674  1.00 88.84      A16S
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ATOM   8770  O2P C   A 418     181.562  98.382  37.617  1.00 88.84      A16S
ATOM   8771  O5* C   A 418     179.854 100.239  37.606  1.00 67.68      A16S
ATOM   8772  C5* C   A 418     179.177  99.828  36.403  1.00 67.68      A16S
ATOM   8773  C4* C   A 418     178.569 101.012  35.687  1.00 67.68      A16S
ATOM   8774  O4* C   A 418     177.423 101.512  36.414  1.00 67.68      A16S
ATOM   8775  C1* C   A 418     177.306 102.909  36.216  1.00 67.68      A16S
ATOM   8776  N1   C   A 418     177.398 103.579  37.523  1.00 88.84      A16S
ATOM   8777  C6   C   A 418     177.698 102.874  38.654  1.00 88.84      A16S
ATOM   8778  C2   C   A 418     177.178 104.958  37.593  1.00 88.84      A16S
ATOM   8779  O2   C   A 418     176.912 105.575  36.558  1.00 88.84      A16S
ATOM   8780  N3   C   A 418     177.261 105.581  38.784  1.00 88.84      A16S
ATOM   8781  C4   C   A 418     177.551 104.883  39.881  1.00 88.84      A16S
ATOM   8782  N4   C   A 418     177.618 105.538  41.040  1.00 88.84      A16S
ATOM   8783  C5   C   A 418     177.785 103.481  39.841  1.00 88.84      A16S
ATOM   8784  C2* C   A 418     178.425 103.340  35.267  1.00 67.68      A16S
ATOM   8785  O2* C   A 418     177.910 103.403  33.948  1.00 67.68      A16S
ATOM   8786  C3* C   A 418     179.451 102.229  35.476  1.00 67.68      A16S
ATOM   8787  O3* C   A 418     180.319 102.070  34.360  1.00 67.68      A16S
ATOM   8788  P    C   A 419     181.824 102.635  34.434  1.00 58.01      A16S
ATOM   8789  O1P C   A 419     182.550 102.071  33.261  1.00 67.15      A16S
ATOM   8790  O2P C   A 419     182.345 102.399  35.810  1.00 67.15      A16S
ATOM   8791  O5* C   A 419     181.667 104.201  34.207  1.00 58.01      A16S
ATOM   8792  C5* C   A 419     181.275 104.685  32.926  1.00 58.01      A16S
ATOM   8793  C4* C   A 419     180.857 106.129  33.000  1.00 58.01      A16S
ATOM   8794  O4* C   A 419     179.707 106.284  33.866  1.00 58.01      A16S
ATOM   8795  C1* C   A 419     179.741 107.566  34.470  1.00 58.01      A16S
ATOM   8796  N1   C   A 419     179.795 107.395  35.929  1.00 67.15      A16S
ATOM   8797  C6   C   A 419     180.191 106.210  36.484  1.00 67.15      A16S
ATOM   8798  C2   C   A 419     179.443 108.472  36.741  1.00 67.15      A16S
ATOM   8799  O2   C   A 419     179.072 109.532  36.209  1.00 67.15      A16S
ATOM   8800  N3   C   A 419     179.515 108.334  38.080  1.00 67.15      A16S
ATOM   8801  C4   C   A 419     179.914 107.178  38.609  1.00 67.15      A16S
ATOM   8802  N4   C   A 419     179.983 107.091  39.934  1.00 67.15      A16S
ATOM   8803  C5   C   A 419     180.263 106.062  37.806  1.00 67.15      A16S
ATOM   8804  C2* C   A 419     180.981 108.287  33.947  1.00 58.01      A16S
ATOM   8805  O2* C   A 419     180.622 109.080  32.834  1.00 58.01      A16S
ATOM   8806  C3* C   A 419     181.864 107.119  33.543  1.00 58.01      A16S
ATOM   8807  O3* C   A 419     182.792 107.508  32.562  1.00 58.01      A16S
ATOM   8808  P    U   A 420     184.238 107.988  33.021  1.00 71.89      A16S
ATOM   8809  O1P U   A 420     184.994 108.356  31.804  1.00 64.55      A16S
ATOM   8810  O2P U   A 420     184.779 106.945  33.936  1.00 64.55      A16S
ATOM   8811  O5* U   A 420     183.926 109.314  33.848  1.00 71.89      A16S
ATOM   8812  C5* U   A 420     183.352 110.467  33.197  1.00 71.89      A16S
ATOM   8813  C4* U   A 420     183.258 111.638  34.156  1.00 71.89      A16S
ATOM   8814  O4* U   A 420     182.283 111.348  35.187  1.00 71.89      A16S
ATOM   8815  C1* U   A 420     182.705 111.913  36.416  1.00 71.89      A16S
ATOM   8816  N1   U   A 420     182.900 110.823  37.384  1.00 64.55      A16S
ATOM   8817  C6   U   A 420     183.054 109.518  36.973  1.00 64.55      A16S
ATOM   8818  C2   U   A 420     182.923 111.151  38.724  1.00 64.55      A16S
ATOM   8819  O2   U   A 420     182.802 112.299  39.131  1.00 64.55      A16S
ATOM   8820  N3   U   A 420     183.097 110.084  39.575  1.00 64.55      A16S
ATOM   8821  C4   U   A 420     183.251 108.756  39.226  1.00 64.55      A16S
ATOM   8822  O4   U   A 420     183.393 107.908  40.108  1.00 64.55      A16S
ATOM   8823  C5   U   A 420     183.224 108.504  37.824  1.00 64.55      A16S
ATOM   8824  C2* U   A 420     183.989 112.700  36.153  1.00 71.89      A16S
ATOM   8825  O2* U   A 420     183.661 114.057  35.917  1.00 71.89      A16S
ATOM   8826  C3* U   A 420     184.528 112.003  34.911  1.00 71.89      A16S
ATOM   8827  O3* U   A 420     185.371 112.864  34.157  1.00 71.89      A16S
ATOM   8828  P    U   A 421     186.961 112.653  34.198  1.00 87.09      A16S
ATOM   8829  O1P U   A 421     187.405 112.395  32.807  1.00103.63      A16S
ATOM   8830  O2P U   A 421     187.284 111.669  35.264  1.00103.63      A16S
ATOM   8831  O5* U   A 421     187.522 114.079  34.627  1.00 87.09      A16S
ATOM   8832  C5* U   A 421     187.066 114.700  35.827  1.00 87.09      A16S
ATOM   8833  C4* U   A 421     187.278 116.189  35.764  1.00 87.09      A16S
ATOM   8834  O4* U   A 421     186.683 116.716  34.550  1.00 87.09      A16S
ATOM   8835  C1* U   A 421     185.699 117.679  34.876  1.00 87.09      A16S
ATOM   8836  N1   U   A 421     184.568 117.523  33.943  1.00103.63      A16S
ATOM   8837  C6   U   A 421     184.187 116.280  33.477  1.00103.63      A16S
ATOM   8838  C2   U   A 421     183.891 118.670  33.534  1.00103.63      A16S
ATOM   8839  O2   U   A 421     184.175 119.791  33.928  1.00103.63      A16S
ATOM   8840  N3   U   A 421     182.866 118.455  32.645  1.00103.63      A16S
ATOM   8841  C4   U   A 421     182.446 117.244  32.132  1.00103.63      A16S
ATOM   8842  O4   U   A 421     181.538 117.221  31.294  1.00103.63      A16S
ATOM   8843  C5   U   A 421     183.179 116.107  32.612  1.00103.63      A16S
ATOM   8844  C2* U   A 421     185.322 117.443  36.340  1.00 87.09      A16S
ATOM   8845  O2* U   A 421     184.858 118.625  36.964  1.00 87.09      A16S
ATOM   8846  C3* U   A 421     186.634 116.928  36.931  1.00 87.09      A16S
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ATOM   8847  O3* U   A 421     187.473 117.994  37.375  1.00 87.09      A16S
ATOM   8848  P   C   A 422     188.559 117.722  38.536  1.00118.13      A16S
ATOM   8849  O1P C   A 422     188.887 119.040  39.129  1.00145.62      A16S
ATOM   8850  O2P C   A 422     189.643 116.877  37.971  1.00145.62      A16S
ATOM   8851  O5* C   A 422     187.788 116.861  39.634  1.00118.13      A16S
ATOM   8852  C5* C   A 422     186.641 117.393  40.317  1.00118.13      A16S
ATOM   8853  C4* C   A 422     186.143 116.418  41.360  1.00118.13      A16S
ATOM   8854  O4* C   A 422     185.670 115.205  40.717  1.00118.13      A16S
ATOM   8855  C1* C   A 422     186.277 114.081  41.323  1.00118.13      A16S
ATOM   8856  N1  C   A 422     186.430 113.007  40.319  1.00145.62      A16S
ATOM   8857  C6  C   A 422     186.544 113.301  38.988  1.00145.62      A16S
ATOM   8858  C2  C   A 422     186.437 111.664  40.749  1.00145.62      A16S
ATOM   8859  O2  C   A 422     186.361 111.414  41.963  1.00145.62      A16S
ATOM   8860  N3  C   A 422     186.528 110.678  39.829  1.00145.62      A16S
ATOM   8861  C4  C   A 422     186.615 110.982  38.532  1.00145.62      A16S
ATOM   8862  N4  C   A 422     186.679 109.976  37.656  1.00145.62      A16S
ATOM   8863  C5  C   A 422     186.636 112.330  38.071  1.00145.62      A16S
ATOM   8864  C2* C   A 422     187.567 114.592  41.964  1.00118.13      A16S
ATOM   8865  O2* C   A 422     187.976 113.737  43.017  1.00118.13      A16S
ATOM   8866  C3* C   A 422     187.136 115.981  42.436  1.00118.13      A16S
ATOM   8867  O3* C   A 422     186.408 115.866  43.661  1.00118.13      A16S
ATOM   8868  P   G   A 423     187.081 116.305  45.058  1.00108.05      A16S
ATOM   8869  O1P G   A 423     188.126 117.333  44.785  1.00100.10      A16S
ATOM   8870  O2P G   A 423     187.442 115.063  45.804  1.00100.10      A16S
ATOM   8871  O5* G   A 423     185.888 117.029  45.833  1.00108.05      A16S
ATOM   8872  C5* G   A 423     184.521 116.560  45.724  1.00108.05      A16S
ATOM   8873  C4* G   A 423     183.606 117.713  45.374  1.00108.05      A16S
ATOM   8874  O4* G   A 423     184.023 118.282  44.107  1.00108.05      A16S
ATOM   8875  C1* G   A 423     182.901 118.843  43.453  1.00108.05      A16S
ATOM   8876  N9  G   A 423     182.896 118.436  42.045  1.00100.10      A16S
ATOM   8877  C4  G   A 423     182.909 117.151  41.528  1.00100.10      A16S
ATOM   8878  N3  G   A 423     182.949 116.002  42.238  1.00100.10      A16S
ATOM   8879  C2  G   A 423     182.938 114.935  41.453  1.00100.10      A16S
ATOM   8880  N2  G   A 423     182.983 113.708  41.987  1.00100.10      A16S
ATOM   8881  N1  G   A 423     182.885 114.991  40.084  1.00100.10      A16S
ATOM   8882  C6  G   A 423     182.843 116.158  39.331  1.00100.10      A16S
ATOM   8883  O6  G   A 423     182.789 116.095  38.096  1.00100.10      A16S
ATOM   8884  C5  G   A 423     182.864 117.312  40.157  1.00100.10      A16S
ATOM   8885  N7  G   A 423     182.840 118.658  39.817  1.00100.10      A16S
ATOM   8886  C8  G   A 423     182.862 119.284  40.963  1.00100.10      A16S
ATOM   8887  C2* G   A 423     181.646 118.511  44.267  1.00108.05      A16S
ATOM   8888  O2* G   A 423     181.237 119.651  44.995  1.00108.05      A16S
ATOM   8889  C3* G   A 423     182.133 117.383  45.175  1.00108.05      A16S
ATOM   8890  O3* G   A 423     181.432 117.417  46.413  1.00108.05      A16S
ATOM   8891  P   G   A 424     180.314 116.308  46.736  1.00107.81      A16S
ATOM   8892  O1P G   A 424     179.399 116.901  47.740  1.00 86.07      A16S
ATOM   8893  O2P G   A 424     181.004 115.026  47.040  1.00 86.07      A16S
ATOM   8894  O5* G   A 424     179.490 116.150  45.378  1.00107.81      A16S
ATOM   8895  C5* G   A 424     178.758 117.264  44.820  1.00107.81      A16S
ATOM   8896  C4* G   A 424     178.537 117.072  43.332  1.00107.81      A16S
ATOM   8897  O4* G   A 424     179.749 116.519  42.755  1.00107.81      A16S
ATOM   8898  C1* G   A 424     179.421 115.660  41.678  1.00107.81      A16S
ATOM   8899  N9  G   A 424     179.819 114.299  42.017  1.00 86.07      A16S
ATOM   8900  C4  G   A 424     179.839 113.232  41.151  1.00 86.07      A16S
ATOM   8901  N3  G   A 424     179.546 113.280  39.832  1.00 86.07      A16S
ATOM   8902  C2  G   A 424     179.606 112.089  39.269  1.00 86.07      A16S
ATOM   8903  N2  G   A 424     179.345 111.966  37.961  1.00 86.07      A16S
ATOM   8904  N1  G   A 424     179.926 110.935  39.947  1.00 86.07      A16S
ATOM   8905  C6  G   A 424     180.233 110.860  41.305  1.00 86.07      A16S
ATOM   8906  O6  G   A 424     180.498 109.766  41.820  1.00 86.07      A16S
ATOM   8907  C5  G   A 424     180.179 112.141  41.921  1.00 86.07      A16S
ATOM   8908  N7  G   A 424     180.409 112.520  43.238  1.00 86.07      A16S
ATOM   8909  C8  G   A 424     180.192 113.808  43.246  1.00 86.07      A16S
ATOM   8910  C2* G   A 424     177.907 115.712  41.498  1.00107.81      A16S
ATOM   8911  O2* G   A 424     177.584 116.682  40.525  1.00107.81      A16S
ATOM   8912  C3* G   A 424     177.447 116.103  42.893  1.00107.81      A16S
ATOM   8913  O3* G   A 424     176.159 116.704  42.842  1.00107.81      A16S
ATOM   8914  P   G   A 425     174.852 115.776  42.685  1.00 82.89      A16S
ATOM   8915  O1P G   A 425     173.661 116.663  42.685  1.00 81.32      A16S
ATOM   8916  O2P G   A 425     174.936 114.663  43.658  1.00 81.32      A16S
ATOM   8917  O5* G   A 425     174.994 115.145  41.233  1.00 82.89      A16S
ATOM   8918  C5* G   A 425     174.816 115.952  40.060  1.00 82.89      A16S
ATOM   8919  C4* G   A 425     174.719 115.075  38.840  1.00 82.89      A16S
ATOM   8920  O4* G   A 425     175.975 114.369  38.648  1.00 82.89      A16S
ATOM   8921  C1* G   A 425     175.718 113.066  38.150  1.00 82.89      A16S
ATOM   8922  N9  G   A 425     176.203 112.094  39.125  1.00 81.32      A16S
ATOM   8923  C4  G   A 425     176.302 110.734  38.941  1.00 81.32      A16S
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ATOM   8924  N3  G   A 425     175.983 110.060  37.815  1.00 81.32      A16S
ATOM   8925  C2  G   A 425     176.174 108.760  37.947  1.00 81.32      A16S
ATOM   8926  N2  G   A 425     175.903 107.943  36.924  1.00 81.32      A16S
ATOM   8927  N1  G   A 425     176.643 108.167  39.092  1.00 81.32      A16S
ATOM   8928  C6  G   A 425     176.976 108.842  40.263  1.00 81.32      A16S
ATOM   8929  O6  G   A 425     177.386 108.213  41.244  1.00 81.32      A16S
ATOM   8930  C5  G   A 425     176.776 110.237  40.135  1.00 81.32      A16S
ATOM   8931  N7  G   A 425     176.979 111.261  41.049  1.00 81.32      A16S
ATOM   8932  C8  G   A 425     176.628 112.342  40.408  1.00 81.32      A16S
ATOM   8933  C2* G   A 425     174.207 112.936  37.953  1.00 82.89      A16S
ATOM   8934  O2* G   A 425     173.850 113.238  36.619  1.00 82.89      A16S
ATOM   8935  C3* G   A 425     173.681 113.971  38.931  1.00 82.89      A16S
ATOM   8936  O3* G   A 425     172.378 114.404  38.593  1.00 82.89      A16S
ATOM   8937  P   G   A 426     171.117 113.590  39.159  1.00 57.78      A16S
ATOM   8938  O1P G   A 426     169.876 114.193  38.619  1.00 86.39      A16S
ATOM   8939  O2P G   A 426     171.298 113.481  40.625  1.00 86.39      A16S
ATOM   8940  O5* G   A 426     171.293 112.136  38.524  1.00 57.78      A16S
ATOM   8941  C5* G   A 426     171.330 111.961  37.092  1.00 57.78      A16S
ATOM   8942  C4* G   A 426     171.432 110.497  36.723  1.00 57.78      A16S
ATOM   8943  O4* G   A 426     172.695 109.944  37.162  1.00 57.78      A16S
ATOM   8944  C1* G   A 426     172.543 108.550  37.385  1.00 57.78      A16S
ATOM   8945  N9  G   A 426     173.004 108.225  38.730  1.00 86.39      A16S
ATOM   8946  C4  G   A 426     173.460 107.003  39.148  1.00 86.39      A16S
ATOM   8947  N3  G   A 426     173.596 105.908  38.379  1.00 86.39      A16S
ATOM   8948  C2  G   A 426     174.057 104.882  39.066  1.00 86.39      A16S
ATOM   8949  N2  G   A 426     174.290 103.719  38.449  1.00 86.39      A16S
ATOM   8950  N1  G   A 426     174.334 104.921  40.408  1.00 86.39      A16S
ATOM   8951  C6  G   A 426     174.189 106.036  41.221  1.00 86.39      A16S
ATOM   8952  O6  G   A 426     174.448 105.959  42.427  1.00 86.39      A16S
ATOM   8953  C5  G   A 426     173.726 107.151  40.491  1.00 86.39      A16S
ATOM   8954  N7  G   A 426     173.469 108.449  40.903  1.00 86.39      A16S
ATOM   8955  C8  G   A 426     173.047 109.052  39.826  1.00 86.39      A16S
ATOM   8956  C2* G   A 426     171.070 108.191  37.179  1.00 57.78      A16S
ATOM   8957  O2* G   A 426     170.899 107.587  35.913  1.00 57.78      A16S
ATOM   8958  C3* G   A 426     170.394 109.553  37.302  1.00 57.78      A16S
ATOM   8959  O3* G   A 426     169.192 109.602  36.562  1.00 57.78      A16S
ATOM   8960  P   U   A 427     167.797 109.327  37.302  1.00 45.87      A16S
ATOM   8961  O1P U   A 427     166.746 109.694  36.321  1.00 88.38      A16S
ATOM   8962  O2P U   A 427     167.825 109.996  38.624  1.00 88.38      A16S
ATOM   8963  O5* U   A 427     167.789 107.744  37.516  1.00 45.87      A16S
ATOM   8964  C5* U   A 427     167.787 106.869  36.376  1.00 45.87      A16S
ATOM   8965  C4* U   A 427     168.033 105.434  36.780  1.00 45.87      A16S
ATOM   8966  O4* U   A 427     169.380 105.268  37.285  1.00 45.87      A16S
ATOM   8967  C1* U   A 427     169.399 104.225  38.245  1.00 45.87      A16S
ATOM   8968  N1  U   A 427     169.947 104.745  39.513  1.00 88.38      A16S
ATOM   8969  C6  U   A 427     169.830 106.078  39.865  1.00 88.38      A16S
ATOM   8970  C2  U   A 427     170.590 103.848  40.356  1.00 88.38      A16S
ATOM   8971  O2  U   A 427     170.715 102.665  40.096  1.00 88.38      A16S
ATOM   8972  N3  U   A 427     171.078 104.391  41.518  1.00 88.38      A16S
ATOM   8973  C4  U   A 427     170.993 105.704  41.926  1.00 88.38      A16S
ATOM   8974  O4  U   A 427     171.476 106.035  43.012  1.00 88.38      A16S
ATOM   8975  C5  U   A 427     170.316 106.571  41.009  1.00 88.38      A16S
ATOM   8976  C2* U   A 427     167.975 103.668  38.359  1.00 45.87      A16S
ATOM   8977  O2* U   A 427     167.880 102.520  37.543  1.00 45.87      A16S
ATOM   8978  C3* U   A 427     167.128 104.825  37.834  1.00 45.87      A16S
ATOM   8979  O3* U   A 427     165.938 104.348  37.219  1.00 45.87      A16S
ATOM   8980  P   G   A 428     164.675 103.921  38.120  1.00 43.56      A16S
ATOM   8981  O1P G   A 428     165.065 102.779  38.986  1.00 65.47      A16S
ATOM   8982  O2P G   A 428     163.490 103.788  37.231  1.00 65.47      A16S
ATOM   8983  O5* G   A 428     164.466 105.184  39.052  1.00 43.56      A16S
ATOM   8984  C5* G   A 428     163.155 105.639  39.382  1.00 43.56      A16S
ATOM   8985  C4* G   A 428     163.247 106.882  40.219  1.00 43.56      A16S
ATOM   8986  O4* G   A 428     163.857 106.525  41.487  1.00 43.56      A16S
ATOM   8987  C1* G   A 428     165.049 107.249  41.685  1.00 43.56      A16S
ATOM   8988  N9  G   A 428     166.066 106.308  42.153  1.00 65.47      A16S
ATOM   8989  C4  G   A 428     166.834 106.415  43.289  1.00 65.47      A16S
ATOM   8990  N3  G   A 428     166.741 107.381  44.219  1.00 65.47      A16S
ATOM   8991  C2  G   A 428     167.627 107.229  45.186  1.00 65.47      A16S
ATOM   8992  N2  G   A 428     167.640 108.084  46.209  1.00 65.47      A16S
ATOM   8993  N1  G   A 428     168.556 106.225  45.228  1.00 65.47      A16S
ATOM   8994  C6  G   A 428     168.683 105.221  44.283  1.00 65.47      A16S
ATOM   8995  O6  G   A 428     169.574 104.379  44.408  1.00 65.47      A16S
ATOM   8996  C5  G   A 428     167.705 105.351  43.247  1.00 65.47      A16S
ATOM   8997  N7  G   A 428     167.457 104.560  42.136  1.00 65.47      A16S
ATOM   8998  C8  G   A 428     166.473 105.160  41.523  1.00 65.47      A16S
ATOM   8999  C2* G   A 428     165.438 107.871  40.346  1.00 43.56      A16S
ATOM   9000  O2* G   A 428     166.103 109.103  40.493  1.00 43.56      A16S
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ATOM	9001	C3*	G	A	428	164.104	107.980	39.613	1.00	43.56	A16S
ATOM	9002	O3*	G	A	428	163.426	109.239	39.564	1.00	43.56	A16S
ATOM	9003	P	U	A	429	163.054	110.022	40.905	1.00	60.34	A16S
ATOM	9004	O1P	U	A	429	162.185	111.159	40.497	1.00	75.37	A16S
ATOM	9005	O2P	U	A	429	164.311	110.299	41.627	1.00	75.37	A16S
ATOM	9006	O5*	U	A	429	162.185	108.964	41.727	1.00	60.34	A16S
ATOM	9007	C5*	U	A	429	160.892	109.316	42.234	1.00	60.34	A16S
ATOM	9008	C4*	U	A	429	160.164	108.096	42.741	1.00	60.34	A16S
ATOM	9009	O4*	U	A	429	160.826	107.549	43.916	1.00	60.34	A16S
ATOM	9010	C1*	U	A	429	159.883	107.435	44.961	1.00	60.34	A16S
ATOM	9011	N1	U	A	429	160.571	107.503	46.260	1.00	75.37	A16S
ATOM	9012	C6	U	A	429	160.446	108.588	47.094	1.00	75.37	A16S
ATOM	9013	C2	U	A	429	161.346	106.417	46.627	1.00	75.37	A16S
ATOM	9014	O2	U	A	429	161.494	105.443	45.922	1.00	75.37	A16S
ATOM	9015	N3	U	A	429	161.943	106.514	47.854	1.00	75.37	A16S
ATOM	9016	C4	U	A	429	161.852	107.561	48.735	1.00	75.37	A16S
ATOM	9017	O4	U	A	429	162.494	107.522	49.781	1.00	75.37	A16S
ATOM	9018	C5	U	A	429	161.040	108.651	48.287	1.00	75.37	A16S
ATOM	9019	C2*	U	A	429	158.839	108.510	44.675	1.00	60.34	A16S
ATOM	9020	O2*	U	A	429	157.630	108.238	45.346	1.00	60.34	A16S
ATOM	9021	C3*	U	A	429	158.725	108.398	43.162	1.00	60.34	A16S
ATOM	9022	O3*	U	A	429	157.863	107.286	42.896	1.00	60.34	A16S
ATOM	9023	P	A	A	430	157.886	106.562	41.459	1.00	57.07	A16S
ATOM	9024	O1P	A	A	430	158.185	107.582	40.413	1.00	60.53	A16S
ATOM	9025	O2P	A	A	430	156.648	105.754	41.359	1.00	60.53	A16S
ATOM	9026	O5*	A	A	430	159.145	105.583	41.547	1.00	57.07	A16S
ATOM	9027	C5*	A	A	430	159.406	104.818	42.730	1.00	57.07	A16S
ATOM	9028	C4*	A	A	430	160.401	103.729	42.433	1.00	57.07	A16S
ATOM	9029	O4*	A	A	430	161.708	104.304	42.179	1.00	57.07	A16S
ATOM	9030	C1*	A	A	430	162.720	103.392	42.588	1.00	57.07	A16S
ATOM	9031	N9	A	A	430	163.606	104.045	43.549	1.00	60.53	A16S
ATOM	9032	C4	A	A	430	164.616	103.418	44.236	1.00	60.53	A16S
ATOM	9033	N3	A	A	430	165.002	102.137	44.125	1.00	60.53	A16S
ATOM	9034	C2	A	A	430	165.979	101.871	44.982	1.00	60.53	A16S
ATOM	9035	N1	A	A	430	166.566	102.675	45.867	1.00	60.53	A16S
ATOM	9036	C6	A	A	430	166.152	103.955	45.949	1.00	60.53	A16S
ATOM	9037	N6	A	A	430	166.729	104.761	46.839	1.00	60.53	A16S
ATOM	9038	C5	A	A	430	165.129	104.363	45.094	1.00	60.53	A16S
ATOM	9039	N7	A	A	430	164.486	105.578	44.928	1.00	60.53	A16S
ATOM	9040	C8	A	A	430	163.601	105.338	43.995	1.00	60.53	A16S
ATOM	9041	C2*	A	A	430	162.030	102.189	43.230	1.00	57.07	A16S
ATOM	9042	O2*	A	A	430	162.017	101.126	42.303	1.00	57.07	A16S
ATOM	9043	C3*	A	A	430	160.655	102.754	43.567	1.00	57.07	A16S
ATOM	9044	O3*	A	A	430	159.648	101.756	43.615	1.00	57.07	A16S
ATOM	9045	P	A	A	431	159.014	101.339	45.029	1.00	62.19	A16S
ATOM	9046	O1P	A	A	431	158.069	100.233	44.769	1.00	89.66	A16S
ATOM	9047	O2P	A	A	431	158.527	102.556	45.733	1.00	89.66	A16S
ATOM	9048	O5*	A	A	431	160.260	100.737	45.807	1.00	62.19	A16S
ATOM	9049	C5*	A	A	431	160.953	99.605	45.280	1.00	62.19	A16S
ATOM	9050	C4*	A	A	431	162.186	99.315	46.095	1.00	62.19	A16S
ATOM	9051	O4*	A	A	431	163.091	100.446	46.032	1.00	62.19	A16S
ATOM	9052	C1*	A	A	431	163.816	100.544	47.246	1.00	62.19	A16S
ATOM	9053	N9	A	A	431	163.600	101.871	47.820	1.00	89.66	A16S
ATOM	9054	C4	A	A	431	164.176	102.326	48.975	1.00	89.66	A16S
ATOM	9055	N3	A	A	431	165.029	101.660	49.768	1.00	89.66	A16S
ATOM	9056	C2	A	A	431	165.382	102.411	50.800	1.00	89.66	A16S
ATOM	9057	N1	A	A	431	165.003	103.657	51.107	1.00	89.66	A16S
ATOM	9058	C6	A	A	431	164.140	104.292	50.285	1.00	89.66	A16S
ATOM	9059	N6	A	A	431	163.754	105.529	50.593	1.00	89.66	A16S
ATOM	9060	C5	A	A	431	163.698	103.607	49.156	1.00	89.66	A16S
ATOM	9061	N7	A	A	431	162.837	103.960	48.130	1.00	89.66	A16S
ATOM	9062	C8	A	A	431	162.813	102.900	47.364	1.00	89.66	A16S
ATOM	9063	C2*	A	A	431	163.346	99.418	48.167	1.00	62.19	A16S
ATOM	9064	O2*	A	A	431	164.275	98.362	48.073	1.00	62.19	A16S
ATOM	9065	C3*	A	A	431	161.979	99.082	47.579	1.00	62.19	A16S
ATOM	9066	O3*	A	A	431	161.587	97.744	47.838	1.00	62.19	A16S
ATOM	9067	P	A	A	432	160.580	97.440	49.049	1.00	102.37	A16S
ATOM	9068	O1P	A	A	432	160.290	95.984	49.012	1.00	79.43	A16S
ATOM	9069	O2P	A	A	432	159.458	98.413	49.004	1.00	79.43	A16S
ATOM	9070	O5*	A	A	432	161.450	97.762	50.343	1.00	102.37	A16S
ATOM	9071	C5*	A	A	432	162.674	97.047	50.604	1.00	102.37	A16S
ATOM	9072	C4*	A	A	432	163.424	97.694	51.740	1.00	102.37	A16S
ATOM	9073	O4*	A	A	432	163.878	99.003	51.321	1.00	102.37	A16S
ATOM	9074	C1*	A	A	432	163.786	99.904	52.407	1.00	102.37	A16S
ATOM	9075	N9	A	A	432	162.796	100.918	52.068	1.00	79.43	A16S
ATOM	9076	C4	A	A	432	162.712	102.163	52.633	1.00	79.43	A16S
ATOM	9077	N3	A	A	432	163.535	102.688	53.553	1.00	79.43	A16S

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ATOM   9078  C2   A   A 432     163.145 103.913  53.876  1.00 79.43      A16S
ATOM   9079  N1   A   A 432     162.099 104.616  53.424  1.00 79.43      A16S
ATOM   9080  C6   A   A 432     161.288 104.053  52.506  1.00 79.43      A16S
ATOM   9081  N6   A   A 432     160.232 104.750  52.075  1.00 79.43      A16S
ATOM   9082  C5   A   A 432     161.604 102.759  52.069  1.00 79.43      A16S
ATOM   9083  N7   A   A 432     161.011 101.913  51.143  1.00 79.43      A16S
ATOM   9084  C8   A   A 432     161.757 100.838  51.178  1.00 79.43      A16S
ATOM   9085  C2*  A   A 432     163.319  99.122  53.635  1.00102.37      A16S
ATOM   9086  O2*  A   A 432     164.423  98.734  54.427  1.00102.37      A16S
ATOM   9087  C3*  A   A 432     162.597  97.953  52.989  1.00102.37      A16S
ATOM   9088  O3*  A   A 432     162.530  96.827  53.846  1.00102.37      A16S
ATOM   9089  P    C   A 433     161.110  96.369  54.430  1.00 78.35      A16S
ATOM   9090  O1P  C   A 433     161.379  95.331  55.459  1.00106.54      A16S
ATOM   9091  O2P  C   A 433     160.220  96.051  53.290  1.00106.54      A16S
ATOM   9092  O5*  C   A 433     160.535  97.683  55.123  1.00 78.35      A16S
ATOM   9093  C5*  C   A 433     161.073  98.145  56.372  1.00 78.35      A16S
ATOM   9094  C4*  C   A 433     160.352  99.387  56.832  1.00 78.35      A16S
ATOM   9095  O4*  C   A 433     160.597 100.453  55.885  1.00 78.35      A16S
ATOM   9096  C1*  C   A 433     159.446 101.269  55.776  1.00 78.35      A16S
ATOM   9097  N1   C   A 433     159.007 101.265  54.368  1.00106.54      A16S
ATOM   9098  C6   C   A 433     159.104 100.133  53.603  1.00106.54      A16S
ATOM   9099  C2   C   A 433     158.488 102.442  53.821  1.00106.54      A16S
ATOM   9100  O2   C   A 433     158.413 103.455  54.533  1.00106.54      A16S
ATOM   9101  N3   C   A 433     158.084 102.447  52.531  1.00106.54      A16S
ATOM   9102  C4   C   A 433     158.186 101.338  51.794  1.00106.54      A16S
ATOM   9103  N4   C   A 433     157.785 101.392  50.525  1.00106.54      A16S
ATOM   9104  C5   C   A 433     158.709 100.126  52.325  1.00106.54      A16S
ATOM   9105  C2*  C   A 433     158.395 100.734  56.752  1.00 78.35      A16S
ATOM   9106  O2*  C   A 433     158.448 101.470  57.959  1.00 78.35      A16S
ATOM   9107  C3*  C   A 433     158.842  99.288  56.926  1.00 78.35      A16S
ATOM   9108  O3*  C   A 433     158.438  98.764  58.176  1.00 78.35      A16S
ATOM   9109  P    U   A 434     156.926  98.259  58.370  1.00 93.21      A16S
ATOM   9110  O1P  U   A 434     156.813  97.733  59.753  1.00104.15      A16S
ATOM   9111  O2P  U   A 434     156.561  97.384  57.225  1.00104.15      A16S
ATOM   9112  O5*  U   A 434     156.065  99.597  58.281  1.00 93.21      A16S
ATOM   9113  C5*  U   A 434     156.060 100.533  59.370  1.00 93.21      A16S
ATOM   9114  C4*  U   A 434     154.977 101.561  59.175  1.00 93.21      A16S
ATOM   9115  O4*  U   A 434     155.332 102.458  58.095  1.00 93.21      A16S
ATOM   9116  C1*  U   A 434     154.153 102.881  57.425  1.00 93.21      A16S
ATOM   9117  N1   U   A 434     154.280 102.561  55.993  1.00104.15      A16S
ATOM   9118  C6   U   A 434     154.980 101.454  55.572  1.00104.15      A16S
ATOM   9119  C2   U   A 434     153.662 103.402  55.077  1.00104.15      A16S
ATOM   9120  O2   U   A 434     153.052 104.411  55.395  1.00104.15      A16S
ATOM   9121  N3   U   A 434     153.792 103.021  53.769  1.00104.15      A16S
ATOM   9122  C4   U   A 434     154.469 101.922  53.288  1.00104.15      A16S
ATOM   9123  O4   U   A 434     154.478 101.701  52.079  1.00104.15      A16S
ATOM   9124  C5   U   A 434     155.093 101.118  54.288  1.00104.15      A16S
ATOM   9125  C2*  U   A 434     152.953 102.204  58.101  1.00 93.21      A16S
ATOM   9126  O2*  U   A 434     152.325 103.099  59.000  1.00 93.21      A16S
ATOM   9127  C3*  U   A 434     153.609 101.018  58.801  1.00 93.21      A16S
ATOM   9128  O3*  U   A 434     152.881 100.600  59.949  1.00 93.21      A16S
ATOM   9129  P    C   A 435     151.774  99.441  59.810  1.00 73.27      A16S
ATOM   9130  O1P  C   A 435     151.237  99.165  61.165  1.00105.83      A16S
ATOM   9131  O2P  C   A 435     152.369  98.327  59.023  1.00105.83      A16S
ATOM   9132  O5*  C   A 435     150.611 100.124  58.954  1.00 73.27      A16S
ATOM   9133  C5*  C   A 435     149.849 101.215  59.499  1.00 73.27      A16S
ATOM   9134  C4*  C   A 435     149.086 101.930  58.411  1.00 73.27      A16S
ATOM   9135  O4*  C   A 435     150.015 102.466  57.436  1.00 73.27      A16S
ATOM   9136  C1*  C   A 435     149.431 102.422  56.145  1.00 73.27      A16S
ATOM   9137  N1   C   A 435     150.276 101.583  55.268  1.00105.83      A16S
ATOM   9138  C6   C   A 435     151.158 100.683  55.797  1.00105.83      A16S
ATOM   9139  C2   C   A 435     150.163 101.722  53.877  1.00105.83      A16S
ATOM   9140  O2   C   A 435     149.351 102.535  53.416  1.00105.83      A16S
ATOM   9141  N3   C   A 435     150.941 100.962  53.073  1.00105.83      A16S
ATOM   9142  C4   C   A 435     151.801 100.091  53.604  1.00105.83      A16S
ATOM   9143  N4   C   A 435     152.554  99.366  52.775  1.00105.83      A16S
ATOM   9144  C5   C   A 435     151.931  99.926  55.009  1.00105.83      A16S
ATOM   9145  C2*  C   A 435     148.010 101.883  56.301  1.00 73.27      A16S
ATOM   9146  O2*  C   A 435     147.118 102.974  56.422  1.00 73.27      A16S
ATOM   9147  C3*  C   A 435     148.123 101.090  57.594  1.00 73.27      A16S
ATOM   9148  O3*  C   A 435     146.866 100.963  58.233  1.00 73.27      A16S
ATOM   9149  P    C   A 436     145.934  99.701  57.894  1.00 81.85      A16S
ATOM   9150  O1P  C   A 436     144.758  99.724  58.798  1.00 71.69      A16S
ATOM   9151  O2P  C   A 436     146.806  98.499  57.846  1.00 71.69      A16S
ATOM   9152  O5*  C   A 436     145.395 100.000  56.427  1.00 81.85      A16S
ATOM   9153  C5*  C   A 436     144.432 101.046  56.199  1.00 81.85      A16S
ATOM   9154  C4*  C   A 436     143.996 101.062  54.748  1.00 81.85      A16S
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ATOM	9155	O4*	C	A	436	145.101	101.457	53.896	1.00	81.85	A16S
ATOM	9156	C1*	C	A	436	145.004	100.790	52.652	1.00	81.85	A16S
ATOM	9157	N1	C	A	436	146.234	100.012	52.435	1.00	71.69	A16S
ATOM	9158	C6	C	A	436	147.110	99.767	53.457	1.00	71.69	A16S
ATOM	9159	C2	C	A	436	146.494	99.524	51.156	1.00	71.69	A16S
ATOM	9160	O2	C	A	436	145.681	99.770	50.245	1.00	71.69	A16S
ATOM	9161	N3	C	A	436	147.620	98.802	50.942	1.00	71.69	A16S
ATOM	9162	C4	C	A	436	148.466	98.572	51.947	1.00	71.69	A16S
ATOM	9163	N4	C	A	436	149.562	97.863	51.693	1.00	71.69	A16S
ATOM	9164	C5	C	A	436	148.226	99.061	53.259	1.00	71.69	A16S
ATOM	9165	C2*	C	A	436	143.746	99.922	52.675	1.00	81.85	A16S
ATOM	9166	O2*	C	A	436	142.690	100.621	52.054	1.00	81.85	A16S
ATOM	9167	C3*	C	A	436	143.514	99.743	54.168	1.00	81.85	A16S
ATOM	9168	O3*	C	A	436	142.141	99.538	54.444	1.00	81.85	A16S
ATOM	9169	P	U	A	437	141.521	98.067	54.296	1.00	70.98	A16S
ATOM	9170	O1P	U	A	437	140.100	98.151	54.729	1.00	68.94	A16S
ATOM	9171	O2P	U	A	437	142.441	97.086	54.949	1.00	68.94	A16S
ATOM	9172	O5*	U	A	437	141.533	97.802	52.723	1.00	70.98	A16S
ATOM	9173	C5*	U	A	437	140.561	98.424	51.853	1.00	70.98	A16S
ATOM	9174	C4*	U	A	437	140.756	97.958	50.426	1.00	70.98	A16S
ATOM	9175	O4*	U	A	437	142.097	98.304	49.997	1.00	70.98	A16S
ATOM	9176	C1*	U	A	437	142.592	97.305	49.133	1.00	70.98	A16S
ATOM	9177	N1	U	A	437	143.803	96.727	49.734	1.00	68.94	A16S
ATOM	9178	C6	U	A	437	144.027	96.772	51.087	1.00	68.94	A16S
ATOM	9179	C2	U	A	437	144.714	96.127	48.892	1.00	68.94	A16S
ATOM	9180	O2	U	A	437	144.559	96.072	47.685	1.00	68.94	A16S
ATOM	9181	N3	U	A	437	145.819	95.593	49.511	1.00	68.94	A16S
ATOM	9182	C4	U	A	437	146.103	95.605	50.856	1.00	68.94	A16S
ATOM	9183	O4	U	A	437	147.156	95.117	51.260	1.00	68.94	A16S
ATOM	9184	C5	U	A	437	145.117	96.245	51.660	1.00	68.94	A16S
ATOM	9185	C2*	U	A	437	141.480	96.279	48.920	1.00	70.98	A16S
ATOM	9186	O2*	U	A	437	140.757	96.647	47.769	1.00	70.98	A16S
ATOM	9187	C3*	U	A	437	140.640	96.461	50.174	1.00	70.98	A16S
ATOM	9188	O3*	U	A	437	139.284	96.089	49.936	1.00	70.98	A16S
ATOM	9189	P	G	A	438	138.803	94.574	50.196	1.00	66.25	A16S
ATOM	9190	O1P	G	A	438	137.475	94.414	49.537	1.00	83.69	A16S
ATOM	9191	O2P	G	A	438	138.946	94.252	51.640	1.00	83.69	A16S
ATOM	9192	O5*	G	A	438	139.883	93.689	49.429	1.00	66.25	A16S
ATOM	9193	C5*	G	A	438	139.878	93.550	47.986	1.00	66.25	A16S
ATOM	9194	C4*	G	A	438	140.989	92.617	47.567	1.00	66.25	A16S
ATOM	9195	O4*	G	A	438	142.192	93.147	48.156	1.00	66.25	A16S
ATOM	9196	C1*	G	A	438	142.995	92.094	48.628	1.00	66.25	A16S
ATOM	9197	N9	G	A	438	143.452	92.420	49.975	1.00	83.69	A16S
ATOM	9198	C4	G	A	438	144.649	92.052	50.547	1.00	83.69	A16S
ATOM	9199	N3	G	A	438	145.598	91.283	49.977	1.00	83.69	A16S
ATOM	9200	C2	G	A	438	146.639	91.118	50.770	1.00	83.69	A16S
ATOM	9201	N2	G	A	438	147.674	90.378	50.363	1.00	83.69	A16S
ATOM	9202	N1	G	A	438	146.743	91.665	52.022	1.00	83.69	A16S
ATOM	9203	C6	G	A	438	145.779	92.460	52.633	1.00	83.69	A16S
ATOM	9204	O6	G	A	438	145.973	92.906	53.782	1.00	83.69	A16S
ATOM	9205	C5	G	A	438	144.655	92.643	51.791	1.00	83.69	A16S
ATOM	9206	N7	G	A	438	143.482	93.350	52.005	1.00	83.69	A16S
ATOM	9207	C8	G	A	438	142.797	93.183	50.907	1.00	83.69	A16S
ATOM	9208	C2*	G	A	438	142.272	90.767	48.398	1.00	66.25	A16S
ATOM	9209	O2*	G	A	438	142.838	90.147	47.269	1.00	66.25	A16S
ATOM	9210	C3*	G	A	438	140.837	91.203	48.122	1.00	66.25	A16S
ATOM	9211	O3*	G	A	438	140.271	90.215	47.215	1.00	66.25	A16S
ATOM	9212	P	A	A	439	139.798	90.597	45.704	1.00	55.68	A16S
ATOM	9213	O1P	A	A	439	139.778	92.059	45.460	1.00	78.78	A16S
ATOM	9214	O2P	A	A	439	138.570	89.801	45.426	1.00	78.78	A16S
ATOM	9215	O5*	A	A	439	140.943	90.002	44.774	1.00	55.68	A16S
ATOM	9216	C5*	A	A	439	141.002	88.595	44.506	1.00	55.68	A16S
ATOM	9217	C4*	A	A	439	141.632	88.341	43.158	1.00	55.68	A16S
ATOM	9218	O4*	A	A	439	142.979	88.879	43.154	1.00	55.68	A16S
ATOM	9219	C1*	A	A	439	143.840	88.008	42.441	1.00	55.68	A16S
ATOM	9220	N9	A	A	439	144.846	87.509	43.380	1.00	78.78	A16S
ATOM	9221	C4	A	A	439	146.062	86.973	43.057	1.00	78.78	A16S
ATOM	9222	N3	A	A	439	146.572	86.812	41.831	1.00	78.78	A16S
ATOM	9223	C2	A	A	439	147.778	86.263	41.903	1.00	78.78	A16S
ATOM	9224	N1	A	A	439	148.478	85.889	42.981	1.00	78.78	A16S
ATOM	9225	C6	A	A	439	147.934	86.073	44.197	1.00	78.78	A16S
ATOM	9226	N6	A	A	439	148.635	85.710	45.269	1.00	78.78	A16S
ATOM	9227	C5	A	A	439	146.661	86.640	44.258	1.00	78.78	A16S
ATOM	9228	N7	A	A	439	145.838	86.960	45.323	1.00	78.78	A16S
ATOM	9229	C8	A	A	439	144.776	87.471	44.752	1.00	78.78	A16S
ATOM	9230	C2*	A	A	439	142.983	86.887	41.847	1.00	55.68	A16S
ATOM	9231	O2*	A	A	439	142.578	87.220	40.537	1.00	55.68	A16S

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ATOM   9232  C3* A   A 439     141.797  86.870  42.796  1.00 55.68      A16S
ATOM   9233  O3* A   A 439     140.629  86.341  42.169  1.00 55.68      A16S
ATOM   9234  P   A   A 440     140.274  84.777  42.332  1.00 52.59      A16S
ATOM   9235  O1P A   A 440     139.123  84.485  41.441  1.00 86.08      A16S
ATOM   9236  O2P A   A 440     140.179  84.449  43.777  1.00 86.08      A16S
ATOM   9237  O5* A   A 440     141.555  84.058  41.723  1.00 52.59      A16S
ATOM   9238  C5* A   A 440     141.946  82.771  42.183  1.00 52.59      A16S
ATOM   9239  C4* A   A 440     143.444  82.692  42.308  1.00 52.59      A16S
ATOM   9240  O4* A   A 440     143.948  83.874  42.977  1.00 52.59      A16S
ATOM   9241  C1* A   A 440     144.930  83.502  43.936  1.00 52.59      A16S
ATOM   9242  N9  A   A 440     144.417  83.864  45.266  1.00 86.08      A16S
ATOM   9243  C4  A   A 440     145.048  83.695  46.477  1.00 86.08      A16S
ATOM   9244  N3  A   A 440     146.265  83.172  46.699  1.00 86.08      A16S
ATOM   9245  C2  A   A 440     146.542  83.164  47.998  1.00 86.08      A16S
ATOM   9246  N1  A   A 440     145.799  83.587  49.025  1.00 86.08      A16S
ATOM   9247  C6  A   A 440     144.583  84.109  48.769  1.00 86.08      A16S
ATOM   9248  N6  A   A 440     143.847  84.539  49.795  1.00 86.08      A16S
ATOM   9249  C5  A   A 440     144.169  84.172  47.431  1.00 86.08      A16S
ATOM   9250  N7  A   A 440     143.005  84.636  46.839  1.00 86.08      A16S
ATOM   9251  C8  A   A 440     143.201  84.436  45.560  1.00 86.08      A16S
ATOM   9252  C2* A   A 440     145.190  81.999  43.773  1.00 52.59      A16S
ATOM   9253  O2* A   A 440     146.298  81.780  42.928  1.00 52.59      A16S
ATOM   9254  C3* A   A 440     143.872  81.529  43.178  1.00 52.59      A16S
ATOM   9255  O3* A   A 440     143.942  80.341  42.421  1.00 52.59      A16S
ATOM   9256  P   C   A 442     142.783  79.245  42.585  1.00 92.28      A16S
ATOM   9257  O1P C   A 442     143.228  78.021  41.871  1.00 91.51      A16S
ATOM   9258  O2P C   A 442     141.479  79.863  42.237  1.00 91.51      A16S
ATOM   9259  O5* C   A 442     142.775  78.955  44.149  1.00 92.28      A16S
ATOM   9260  C5* C   A 442     143.976  78.548  44.822  1.00 92.28      A16S
ATOM   9261  C4* C   A 442     143.837  78.753  46.308  1.00 92.28      A16S
ATOM   9262  O4* C   A 442     143.921  80.164  46.641  1.00 92.28      A16S
ATOM   9263  C1* C   A 442     143.087  80.437  47.754  1.00 92.28      A16S
ATOM   9264  N1  C   A 442     142.054  81.406  47.354  1.00 91.51      A16S
ATOM   9265  C6  C   A 442     141.623  81.481  46.059  1.00 91.51      A16S
ATOM   9266  C2  C   A 442     141.499  82.241  48.332  1.00 91.51      A16S
ATOM   9267  O2  C   A 442     141.913  82.162  49.499  1.00 91.51      A16S
ATOM   9268  N3  C   A 442     140.524  83.107  47.980  1.00 91.51      A16S
ATOM   9269  C4  C   A 442     140.101  83.159  46.716  1.00 91.51      A16S
ATOM   9270  N4  C   A 442     139.125  84.016  46.416  1.00 91.51      A16S
ATOM   9271  C5  C   A 442     140.657  82.331  45.701  1.00 91.51      A16S
ATOM   9272  C2* C   A 442     142.446  79.120  48.188  1.00 92.28      A16S
ATOM   9273  O2* C   A 442     143.214  78.562  49.231  1.00 92.28      A16S
ATOM   9274  C3* C   A 442     142.516  78.307  46.904  1.00 92.28      A16S
ATOM   9275  O3* C   A 442     142.469  76.911  47.128  1.00 92.28      A16S
ATOM   9276  P   C   A 443     141.052  76.162  47.099  1.00 73.14      A16S
ATOM   9277  O1P C   A 443     141.336  74.707  47.031  1.00133.90      A16S
ATOM   9278  O2P C   A 443     140.198  76.791  46.058  1.00133.90      A16S
ATOM   9279  O5* C   A 443     140.428  76.487  48.527  1.00 73.14      A16S
ATOM   9280  C5* C   A 443     141.011  75.930  49.723  1.00 73.14      A16S
ATOM   9281  C4* C   A 443     140.214  76.332  50.940  1.00 73.14      A16S
ATOM   9282  O4* C   A 443     140.378  77.751  51.184  1.00 73.14      A16S
ATOM   9283  C1* C   A 443     139.176  78.287  51.705  1.00 73.14      A16S
ATOM   9284  N1  C   A 443     138.697  79.351  50.804  1.00133.90      A16S
ATOM   9285  C6  C   A 443     138.953  79.310  49.461  1.00133.90      A16S
ATOM   9286  C2  C   A 443     137.960  80.407  51.348  1.00133.90      A16S
ATOM   9287  O2  C   A 443     137.756  80.432  52.571  1.00133.90      A16S
ATOM   9288  N3  C   A 443     137.489  81.374  50.531  1.00133.90      A16S
ATOM   9289  C4  C   A 443     137.737  81.320  49.222  1.00133.90      A16S
ATOM   9290  N4  C   A 443     137.249  82.297  48.454  1.00133.90      A16S
ATOM   9291  C5  C   A 443     138.496  80.264  48.642  1.00133.90      A16S
ATOM   9292  C2* C   A 443     138.174  77.141  51.848  1.00 73.14      A16S
ATOM   9293  O2* C   A 443     138.194  76.658  53.176  1.00 73.14      A16S
ATOM   9294  C3* C   A 443     138.713  76.128  50.845  1.00 73.14      A16S
ATOM   9295  O3* C   A 443     138.333  74.801  51.173  1.00 73.14      A16S
ATOM   9296  P   C   A 444     136.849  74.297  50.828  1.00 69.00      A16S
ATOM   9297  O1P C   A 444     136.723  72.907  51.335  1.00117.59      A16S
ATOM   9298  O2P C   A 444     136.569  74.582  49.399  1.00117.59      A16S
ATOM   9299  O5* C   A 444     135.914  75.244  51.704  1.00 69.00      A16S
ATOM   9300  C5* C   A 444     135.813  75.075  53.131  1.00 69.00      A16S
ATOM   9301  C4* C   A 444     134.651  75.870  53.666  1.00 69.00      A16S
ATOM   9302  O4* C   A 444     134.924  77.282  53.508  1.00 69.00      A16S
ATOM   9303  C1* C   A 444     133.722  77.968  53.191  1.00 69.00      A16S
ATOM   9304  N1  C   A 444     133.907  78.692  51.914  1.00117.59      A16S
ATOM   9305  C6  C   A 444     134.954  78.392  51.086  1.00117.59      A16S
ATOM   9306  C2  C   A 444     132.990  79.698  51.557  1.00117.59      A16S
ATOM   9307  O2  C   A 444     132.050  79.964  52.323  1.00117.59      A16S
ATOM   9308  N3  C   A 444     133.154  80.352  50.388  1.00117.59      A16S
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ATOM   9309  C4   C   A 444     134.180  80.045  49.591  1.00117.59      A16S
ATOM   9310  N4   C   A 444     134.304  80.713  48.447  1.00117.59      A16S
ATOM   9311  C5   C   A 444     135.127  79.038  49.930  1.00117.59      A16S
ATOM   9312  C2*  C   A 444     132.583  76.944  53.158  1.00 69.00      A16S
ATOM   9313  O2*  C   A 444     131.870  76.963  54.377  1.00 69.00      A16S
ATOM   9314  C3*  C   A 444     133.340  75.643  52.935  1.00 69.00      A16S
ATOM   9315  O3*  C   A 444     132.639  74.526  53.453  1.00 69.00      A16S
ATOM   9316  P    G   A 445     131.473  73.854  52.580  1.00 77.01      A16S
ATOM   9317  O1P  G   A 445     130.955  72.701  53.365  1.00106.61      A16S
ATOM   9318  O2P  G   A 445     131.978  73.631  51.201  1.00106.61      A16S
ATOM   9319  O5*  G   A 445     130.350  74.980  52.526  1.00 77.01      A16S
ATOM   9320  C5*  G   A 445     129.566  75.270  53.685  1.00 77.01      A16S
ATOM   9321  C4*  G   A 445     128.500  76.275  53.354  1.00 77.01      A16S
ATOM   9322  O4*  G   A 445     129.113  77.550  53.036  1.00 77.01      A16S
ATOM   9323  C1*  G   A 445     128.329  78.224  52.062  1.00 77.01      A16S
ATOM   9324  N9   G   A 445     129.143  78.448  50.870  1.00106.61      A16S
ATOM   9325  C4   G   A 445     128.824  79.270  49.817  1.00106.61      A16S
ATOM   9326  N3   G   A 445     127.729  80.050  49.727  1.00106.61      A16S
ATOM   9327  C2   G   A 445     127.682  80.705  48.586  1.00106.61      A16S
ATOM   9328  N2   G   A 445     126.666  81.537  48.339  1.00106.61      A16S
ATOM   9329  N1   G   A 445     128.629  80.594  47.603  1.00106.61      A16S
ATOM   9330  C6   G   A 445     129.762  79.790  47.671  1.00106.61      A16S
ATOM   9331  O6   G   A 445     130.545  79.745  46.713  1.00106.61      A16S
ATOM   9332  C5   G   A 445     129.833  79.097  48.900  1.00106.61      A16S
ATOM   9333  N7   G   A 445     130.790  78.214  49.380  1.00106.61      A16S
ATOM   9334  C8   G   A 445     130.343  77.859  50.553  1.00106.61      A16S
ATOM   9335  C2*  G   A 445     127.128  77.334  51.734  1.00 77.01      A16S
ATOM   9336  O2*  G   A 445     125.990  77.748  52.466  1.00 77.01      A16S
ATOM   9337  C3*  G   A 445     127.644  75.960  52.141  1.00 77.01      A16S
ATOM   9338  O3*  G   A 445     126.596  75.049  52.422  1.00 77.01      A16S
ATOM   9339  P    G   A 446     126.018  74.124  51.239  1.00 78.48      A16S
ATOM   9340  O1P  G   A 446     125.075  73.137  51.836  1.00 92.88      A16S
ATOM   9341  O2P  G   A 446     127.174  73.635  50.433  1.00 92.88      A16S
ATOM   9342  O5*  G   A 446     125.172  75.139  50.342  1.00 78.48      A16S
ATOM   9343  C5*  G   A 446     124.132  75.945  50.922  1.00 78.48      A16S
ATOM   9344  C4*  G   A 446     123.706  77.041  49.969  1.00 78.48      A16S
ATOM   9345  O4*  G   A 446     124.812  77.940  49.703  1.00 78.48      A16S
ATOM   9346  C1*  G   A 446     124.690  78.473  48.393  1.00 78.48      A16S
ATOM   9347  N9   G   A 446     125.900  78.145  47.642  1.00 92.88      A16S
ATOM   9348  C4   G   A 446     126.291  78.688  46.442  1.00 92.88      A16S
ATOM   9349  N3   G   A 446     125.627  79.632  45.744  1.00 92.88      A16S
ATOM   9350  C2   G   A 446     126.256  79.956  44.629  1.00 92.88      A16S
ATOM   9351  N2   G   A 446     125.735  80.889  43.820  1.00 92.88      A16S
ATOM   9352  N1   G   A 446     127.443  79.394  44.228  1.00 92.88      A16S
ATOM   9353  C6   G   A 446     128.145  78.419  44.930  1.00 92.88      A16S
ATOM   9354  O6   G   A 446     129.213  77.974  44.480  1.00 92.88      A16S
ATOM   9355  C5   G   A 446     127.481  78.067  46.130  1.00 92.88      A16S
ATOM   9356  N7   G   A 446     127.832  77.155  47.112  1.00 92.88      A16S
ATOM   9357  C8   G   A 446     126.869  77.235  47.986  1.00 92.88      A16S
ATOM   9358  C2*  G   A 446     123.424  77.888  47.769  1.00 78.48      A16S
ATOM   9359  O2*  G   A 446     122.346  78.791  47.917  1.00 78.48      A16S
ATOM   9360  C3*  G   A 446     123.227  76.621  48.592  1.00 78.48      A16S
ATOM   9361  O3*  G   A 446     121.864  76.245  48.607  1.00 78.48      A16S
ATOM   9362  P    G   A 447     121.289  75.331  47.423  1.00 64.93      A16S
ATOM   9363  O1P  G   A 447     119.817  75.548  47.353  1.00 63.23      A16S
ATOM   9364  O2P  G   A 447     121.827  73.947  47.575  1.00 63.23      A16S
ATOM   9365  O5*  G   A 447     121.930  75.989  46.125  1.00 64.93      A16S
ATOM   9366  C5*  G   A 447     121.300  77.109  45.479  1.00 64.93      A16S
ATOM   9367  C4*  G   A 447     121.856  77.287  44.088  1.00 64.93      A16S
ATOM   9368  O4*  G   A 447     123.193  77.837  44.162  1.00 64.93      A16S
ATOM   9369  C1*  G   A 447     124.003  77.256  43.164  1.00 64.93      A16S
ATOM   9370  N9   G   A 447     124.995  76.432  43.838  1.00 63.23      A16S
ATOM   9371  C4   G   A 447     126.256  76.141  43.394  1.00 63.23      A16S
ATOM   9372  N3   G   A 447     126.821  76.603  42.263  1.00 63.23      A16S
ATOM   9373  C2   G   A 447     128.043  76.136  42.100  1.00 63.23      A16S
ATOM   9374  N2   G   A 447     128.756  76.506  41.036  1.00 63.23      A16S
ATOM   9375  N1   G   A 447     128.659  75.276  42.971  1.00 63.23      A16S
ATOM   9376  C6   G   A 447     128.097  74.791  44.144  1.00 63.23      A16S
ATOM   9377  O6   G   A 447     128.743  74.026  44.865  1.00 63.23      A16S
ATOM   9378  C5   G   A 447     126.790  75.289  44.336  1.00 63.23      A16S
ATOM   9379  N7   G   A 447     125.889  75.066  45.364  1.00 63.23      A16S
ATOM   9380  C8   G   A 447     124.842  75.767  45.030  1.00 63.23      A16S
ATOM   9381  C2*  G   A 447     123.095  76.401  42.283  1.00 64.93      A16S
ATOM   9382  O2*  G   A 447     122.649  77.200  41.209  1.00 64.93      A16S
ATOM   9383  C3*  G   A 447     121.999  76.015  43.270  1.00 64.93      A16S
ATOM   9384  O3*  G   A 447     120.736  75.623  42.730  1.00 64.93      A16S
ATOM   9385  P    A   A 448     120.652  74.564  41.519  1.00 82.53      A16S
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ATOM   9386  O1P A   A 448     119.261  74.018  41.556  1.00 53.34      A16S
ATOM   9387  O2P A   A 448     121.809  73.637  41.547  1.00 53.34      A16S
ATOM   9388  O5* A   A 448     120.737  75.528  40.257  1.00 82.53      A16S
ATOM   9389  C5* A   A 448     120.015  76.770  40.321  1.00 82.53      A16S
ATOM   9390  C4* A   A 448     120.218  77.608  39.094  1.00 82.53      A16S
ATOM   9391  O4* A   A 448     121.576  78.083  38.987  1.00 82.53      A16S
ATOM   9392  C1* A   A 448     121.776  78.527  37.666  1.00 82.53      A16S
ATOM   9393  N9  A   A 448     123.076  78.081  37.185  1.00 53.34      A16S
ATOM   9394  C4  A   A 448     123.715  78.633  36.106  1.00 53.34      A16S
ATOM   9395  N3  A   A 448     123.274  79.642  35.332  1.00 53.34      A16S
ATOM   9396  C2  A   A 448     124.159  79.924  34.381  1.00 53.34      A16S
ATOM   9397  N1  A   A 448     125.346  79.355  34.136  1.00 53.34      A16S
ATOM   9398  C6  A   A 448     125.757  78.344  34.939  1.00 53.34      A16S
ATOM   9399  N6  A   A 448     126.944  77.782  34.705  1.00 53.34      A16S
ATOM   9400  C5  A   A 448     124.903  77.948  35.981  1.00 53.34      A16S
ATOM   9401  N7  A   A 448     125.012  76.971  36.959  1.00 53.34      A16S
ATOM   9402  C8  A   A 448     123.902  77.093  37.646  1.00 53.34      A16S
ATOM   9403  C2* A   A 448     120.614  78.012  36.816  1.00 82.53      A16S
ATOM   9404  O2* A   A 448     119.750  79.100  36.565  1.00 82.53      A16S
ATOM   9405  C3* A   A 448     119.965  76.988  37.740  1.00 82.53      A16S
ATOM   9406  O3* A   A 448     118.578  76.898  37.479  1.00 82.53      A16S
ATOM   9407  P   C   A 449     118.045  75.877  36.360  1.00 58.72      A16S
ATOM   9408  O1P C   A 449     116.709  75.418  36.808  1.00 71.19      A16S
ATOM   9409  O2P C   A 449     119.108  74.871  36.054  1.00 71.19      A16S
ATOM   9410  O5* C   A 449     117.823  76.802  35.084  1.00 58.72      A16S
ATOM   9411  C5* C   A 449     117.109  78.040  35.207  1.00 58.72      A16S
ATOM   9412  C4* C   A 449     117.510  79.001  34.113  1.00 58.72      A16S
ATOM   9413  O4* C   A 449     118.893  79.414  34.266  1.00 58.72      A16S
ATOM   9414  C1* C   A 449     119.445  79.692  32.994  1.00 58.72      A16S
ATOM   9415  N1  C   A 449     120.695  78.919  32.826  1.00 71.19      A16S
ATOM   9416  C6  C   A 449     120.911  77.766  33.529  1.00 71.19      A16S
ATOM   9417  C2  C   A 449     121.671  79.388  31.927  1.00 71.19      A16S
ATOM   9418  O2  C   A 449     121.465  80.438  31.297  1.00 71.19      A16S
ATOM   9419  N3  C   A 449     122.815  78.683  31.769  1.00 71.19      A16S
ATOM   9420  C4  C   A 449     123.012  77.559  32.462  1.00 71.19      A16S
ATOM   9421  N4  C   A 449     124.158  76.900  32.269  1.00 71.19      A16S
ATOM   9422  C5  C   A 449     122.044  77.063  33.382  1.00 71.19      A16S
ATOM   9423  C2* C   A 449     118.361  79.422  31.945  1.00 58.72      A16S
ATOM   9424  O2* C   A 449     117.714  80.643  31.625  1.00 58.72      A16S
ATOM   9425  C3* C   A 449     117.418  78.486  32.692  1.00 58.72      A16S
ATOM   9426  O3* C   A 449     116.081  78.572  32.211  1.00 58.72      A16S
ATOM   9427  P   G   A 450     115.331  77.235  31.724  1.00 55.27      A16S
ATOM   9428  O1P G   A 450     113.901  77.543  31.402  1.00 56.53      A16S
ATOM   9429  O2P G   A 450     115.648  76.175  32.733  1.00 56.53      A16S
ATOM   9430  O5* G   A 450     116.088  76.855  30.376  1.00 55.27      A16S
ATOM   9431  C5* G   A 450     116.148  77.775  29.277  1.00 55.27      A16S
ATOM   9432  C4* G   A 450     117.368  77.503  28.431  1.00 55.27      A16S
ATOM   9433  O4* G   A 450     118.561  77.726  29.223  1.00 55.27      A16S
ATOM   9434  C1* G   A 450     119.584  76.838  28.811  1.00 55.27      A16S
ATOM   9435  N9  G   A 450     119.924  75.972  29.937  1.00 56.53      A16S
ATOM   9436  C4  G   A 450     121.135  75.369  30.175  1.00 56.53      A16S
ATOM   9437  N3  G   A 450     122.245  75.497  29.425  1.00 56.53      A16S
ATOM   9438  C2  G   A 450     123.238  74.762  29.889  1.00 56.53      A16S
ATOM   9439  N2  G   A 450     124.414  74.743  29.243  1.00 56.53      A16S
ATOM   9440  N1  G   A 450     123.152  73.988  31.013  1.00 56.53      A16S
ATOM   9441  C6  G   A 450     122.024  73.858  31.809  1.00 56.53      A16S
ATOM   9442  O6  G   A 450     122.058  73.148  32.821  1.00 56.53      A16S
ATOM   9443  C5  G   A 450     120.950  74.614  31.310  1.00 56.53      A16S
ATOM   9444  N7  G   A 450     119.658  74.750  31.786  1.00 56.53      A16S
ATOM   9445  C8  G   A 450     119.089  75.570  30.948  1.00 56.53      A16S
ATOM   9446  C2* G   A 450     119.023  76.009  27.657  1.00 55.27      A16S
ATOM   9447  O2* G   A 450     119.322  76.589  26.404  1.00 55.27      A16S
ATOM   9448  C3* G   A 450     117.535  76.085  27.920  1.00 55.27      A16S
ATOM   9449  O3* G   A 450     116.850  75.820  26.720  1.00 55.27      A16S
ATOM   9450  P   A   A 451     116.585  74.300  26.301  1.00 50.68      A16S
ATOM   9451  O1P A   A 451     117.746  73.509  26.765  1.00 58.70      A16S
ATOM   9452  O2P A   A 451     116.193  74.260  24.868  1.00 58.70      A16S
ATOM   9453  O5* A   A 451     115.326  73.885  27.180  1.00 50.68      A16S
ATOM   9454  C5* A   A 451     113.977  74.084  26.696  1.00 50.68      A16S
ATOM   9455  C4* A   A 451     112.982  73.816  27.807  1.00 50.68      A16S
ATOM   9456  O4* A   A 451     113.108  72.431  28.231  1.00 50.68      A16S
ATOM   9457  C1* A   A 451     113.493  72.365  29.588  1.00 50.68      A16S
ATOM   9458  N9  A   A 451     114.542  71.353  29.696  1.00 58.70      A16S
ATOM   9459  C4  A   A 451     114.882  70.605  30.793  1.00 58.70      A16S
ATOM   9460  N3  A   A 451     114.314  70.632  32.005  1.00 58.70      A16S
ATOM   9461  C2  A   A 451     114.936  69.792  32.825  1.00 58.70      A16S
ATOM   9462  N1  A   A 451     115.978  68.987  32.587  1.00 58.70      A16S
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ATOM   9463  C6  A   A 451     116.516  68.980  31.353  1.00 58.70      A16S
ATOM   9464  N6  A   A 451     117.554  68.176  31.107  1.00 58.70      A16S
ATOM   9465  C5  A   A 451     115.952  69.823  30.399  1.00 58.70      A16S
ATOM   9466  N7  A   A 451     116.271  70.060  29.079  1.00 58.70      A16S
ATOM   9467  C8  A   A 451     115.407  70.969  28.707  1.00 58.70      A16S
ATOM   9468  C2* A   A 451     113.987  73.759  29.977  1.00 50.68      A16S
ATOM   9469  O2* A   A 451     113.785  74.004  31.357  1.00 50.68      A16S
ATOM   9470  C3* A   A 451     113.172  74.670  29.053  1.00 50.68      A16S
ATOM   9471  O3* A   A 451     111.884  74.988  29.596  1.00 50.68      A16S
ATOM   9472  P   A   A 452     111.359  76.514  29.598  1.00 62.46      A16S
ATOM   9473  O1P A   A 452     112.151  77.270  28.591  1.00 58.98      A16S
ATOM   9474  O2P A   A 452     111.310  77.005  31.007  1.00 58.98      A16S
ATOM   9475  O5* A   A 452     109.881  76.398  29.012  1.00 62.46      A16S
ATOM   9476  C5* A   A 452     108.970  75.376  29.463  1.00 62.46      A16S
ATOM   9477  C4* A   A 452     108.439  74.584  28.284  1.00 62.46      A16S
ATOM   9478  O4* A   A 452     109.453  73.641  27.840  1.00 62.46      A16S
ATOM   9479  C1* A   A 452     108.892  72.342  27.779  1.00 62.46      A16S
ATOM   9480  N9  A   A 452     109.947  71.356  28.012  1.00 58.98      A16S
ATOM   9481  C4  A   A 452     110.685  70.754  27.023  1.00 58.98      A16S
ATOM   9482  N3  A   A 452     110.567  70.932  25.697  1.00 58.98      A16S
ATOM   9483  C2  A   A 452     111.454  70.191  25.050  1.00 58.98      A16S
ATOM   9484  N1  A   A 452     112.375  69.356  25.538  1.00 58.98      A16S
ATOM   9485  C6  A   A 452     112.463  69.203  26.873  1.00 58.98      A16S
ATOM   9486  N6  A   A 452     113.379  68.371  27.359  1.00 58.98      A16S
ATOM   9487  C5  A   A 452     111.580  69.930  27.670  1.00 58.98      A16S
ATOM   9488  N7  A   A 452     111.407  69.997  29.042  1.00 58.98      A16S
ATOM   9489  C8  A   A 452     110.424  70.850  29.193  1.00 58.98      A16S
ATOM   9490  C2* A   A 452     107.735  72.349  28.770  1.00 62.46      A16S
ATOM   9491  O2* A   A 452     106.790  71.357  28.454  1.00 62.46      A16S
ATOM   9492  C3* A   A 452     107.182  73.748  28.550  1.00 62.46      A16S
ATOM   9493  O3* A   A 452     106.378  73.720  27.363  1.00 62.46      A16S
ATOM   9494  P   A   A 453     104.774  73.586  27.472  1.00 40.90      A16S
ATOM   9495  O1P A   A 453     104.228  74.971  27.534  1.00 68.05      A16S
ATOM   9496  O2P A   A 453     104.449  72.613  28.556  1.00 68.05      A16S
ATOM   9497  O5* A   A 453     104.340  72.950  26.076  1.00 40.90      A16S
ATOM   9498  C5* A   A 453     104.238  71.524  25.914  1.00 40.90      A16S
ATOM   9499  C4* A   A 453     105.209  71.048  24.866  1.00 40.90      A16S
ATOM   9500  O4* A   A 453     106.564  71.069  25.383  1.00 40.90      A16S
ATOM   9501  C1* A   A 453     107.311  70.024  24.783  1.00 40.90      A16S
ATOM   9502  N9  A   A 453     107.914  69.204  25.832  1.00 68.05      A16S
ATOM   9503  C4  A   A 453     108.844  68.218  25.637  1.00 68.05      A16S
ATOM   9504  N3  A   A 453     109.351  67.807  24.470  1.00 68.05      A16S
ATOM   9505  C2  A   A 453     110.245  66.845  24.667  1.00 68.05      A16S
ATOM   9506  N1  A   A 453     110.657  66.287  25.812  1.00 68.05      A16S
ATOM   9507  C6  A   A 453     110.121  66.722  26.966  1.00 68.05      A16S
ATOM   9508  N6  A   A 453     110.528  66.162  28.104  1.00 68.05      A16S
ATOM   9509  C5  A   A 453     109.162  67.743  26.893  1.00 68.05      A16S
ATOM   9510  N7  A   A 453     108.433  68.406  27.864  1.00 68.05      A16S
ATOM   9511  C8  A   A 453     107.705  69.253  27.183  1.00 68.05      A16S
ATOM   9512  C2* A   A 453     106.379  69.245  23.855  1.00 40.90      A16S
ATOM   9513  O2* A   A 453     106.563  69.688  22.523  1.00 40.90      A16S
ATOM   9514  C3* A   A 453     105.009  69.618  24.402  1.00 40.90      A16S
ATOM   9515  O3* A   A 453     104.029  69.591  23.380  1.00 40.90      A16S
ATOM   9516  P   C   A 454     102.795  68.574  23.493  1.00 56.42      A16S
ATOM   9517  O1P C   A 454     101.844  68.938  22.406  1.00 68.00      A16S
ATOM   9518  O2P C   A 454     102.332  68.578  24.906  1.00 68.00      A16S
ATOM   9519  O5* C   A 454     103.436  67.150  23.148  1.00 56.42      A16S
ATOM   9520  C5* C   A 454     103.894  66.871  21.809  1.00 56.42      A16S
ATOM   9521  C4* C   A 454     104.809  65.669  21.771  1.00 56.42      A16S
ATOM   9522  O4* C   A 454     106.058  65.917  22.466  1.00 56.42      A16S
ATOM   9523  C1* C   A 454     106.577  64.700  22.952  1.00 56.42      A16S
ATOM   9524  N1  C   A 454     106.781  64.811  24.398  1.00 68.00      A16S
ATOM   9525  C6  C   A 454     105.834  65.387  25.197  1.00 68.00      A16S
ATOM   9526  C2  C   A 454     107.958  64.309  24.953  1.00 68.00      A16S
ATOM   9527  O2  C   A 454     108.794  63.774  24.209  1.00 68.00      A16S
ATOM   9528  N3  C   A 454     108.155  64.412  26.290  1.00 68.00      A16S
ATOM   9529  C4  C   A 454     107.224  64.984  27.060  1.00 68.00      A16S
ATOM   9530  N4  C   A 454     107.460  65.080  28.368  1.00 68.00      A16S
ATOM   9531  C5  C   A 454     106.010  65.488  26.520  1.00 68.00      A16S
ATOM   9532  C2* C   A 454     105.582  63.599  22.592  1.00 56.42      A16S
ATOM   9533  O2* C   A 454     106.046  62.981  21.413  1.00 56.42      A16S
ATOM   9534  C3* C   A 454     104.292  64.387  22.376  1.00 56.42      A16S
ATOM   9535  O3* C   A 454     103.414  63.730  21.467  1.00 56.42      A16S
ATOM   9536  P   C   A 455     101.930  63.326  21.942  1.00 62.32      A16S
ATOM   9537  O1P C   A 455     101.385  62.366  20.944  1.00 76.78      A16S
ATOM   9538  O2P C   A 455     101.188  64.579  22.245  1.00 76.78      A16S
ATOM   9539  O5* C   A 455     102.152  62.549  23.314  1.00 62.32      A16S
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ATOM   9540  C5* C   A 455     102.749  61.240  23.340  1.00 62.32      A16S
ATOM   9541  C4* C   A 455     102.956  60.795  24.766  1.00 62.32      A16S
ATOM   9542  O4* C   A 455     103.891  61.695  25.408  1.00 62.32      A16S
ATOM   9543  C1* C   A 455     103.519  61.889  26.758  1.00 62.32      A16S
ATOM   9544  N1  C   A 455     103.229  63.316  26.950  1.00 76.78      A16S
ATOM   9545  C6  C   A 455     102.792  64.093  25.913  1.00 76.78      A16S
ATOM   9546  C2  C   A 455     103.399  63.864  28.215  1.00 76.78      A16S
ATOM   9547  O2  C   A 455     103.796  63.135  29.134  1.00 76.78      A16S
ATOM   9548  N3  C   A 455     103.125  65.170  28.410  1.00 76.78      A16S
ATOM   9549  C4  C   A 455     102.694  65.919  27.396  1.00 76.78      A16S
ATOM   9550  N4  C   A 455     102.431  67.202  27.637  1.00 76.78      A16S
ATOM   9551  C5  C   A 455     102.514  65.385  26.091  1.00 76.78      A16S
ATOM   9552  C2* C   A 455     102.300  61.011  27.045  1.00 62.32      A16S
ATOM   9553  O2* C   A 455     102.702  59.797  27.646  1.00 62.32      A16S
ATOM   9554  C3* C   A 455     101.719  60.833  25.650  1.00 62.32      A16S
ATOM   9555  O3* C   A 455     100.941  59.655  25.528  1.00 62.32      A16S
ATOM   9556  P   C   A 456      99.343  59.773  25.430  1.00 71.46      A16S
ATOM   9557  O1P C   A 456      98.834  58.455  24.970  1.00 97.24      A16S
ATOM   9558  O2P C   A 456      98.989  61.004  24.667  1.00 97.24      A16S
ATOM   9559  O5* C   A 456      98.904  60.009  26.939  1.00 71.46      A16S
ATOM   9560  C5* C   A 456      99.177  59.026  27.955  1.00 71.46      A16S
ATOM   9561  C4* C   A 456      98.755  59.556  29.299  1.00 71.46      A16S
ATOM   9562  O4* C   A 456      99.663  60.610  29.700  1.00 71.46      A16S
ATOM   9563  C1* C   A 456      98.936  61.669  30.300  1.00 71.46      A16S
ATOM   9564  N1  C   A 456      99.144  62.890  29.493  1.00 97.24      A16S
ATOM   9565  C6  C   A 456      99.280  62.817  28.132  1.00 97.24      A16S
ATOM   9566  C2  C   A 456      99.200  64.134  30.142  1.00 97.24      A16S
ATOM   9567  O2  C   A 456      99.083  64.177  31.378  1.00 97.24      A16S
ATOM   9568  N3  C   A 456      99.383  65.255  29.405  1.00 97.24      A16S
ATOM   9569  C4  C   A 456      99.513  65.168  28.077  1.00 97.24      A16S
ATOM   9570  N4  C   A 456      99.688  66.299  27.389  1.00 97.24      A16S
ATOM   9571  C5  C   A 456      99.466  63.918  27.395  1.00 97.24      A16S
ATOM   9572  C2* C   A 456      97.469  61.243  30.390  1.00 71.46      A16S
ATOM   9573  O2* C   A 456      97.198  60.736  31.683  1.00 71.46      A16S
ATOM   9574  C3* C   A 456      97.383  60.202  29.279  1.00 71.46      A16S
ATOM   9575  O3* C   A 456      96.355  59.236  29.456  1.00 71.46      A16S
ATOM   9576  P   C   A 457      94.900  59.502  28.825  1.00 76.51      A16S
ATOM   9577  O1P C   A 457      94.120  58.244  28.965  1.00134.35      A16S
ATOM   9578  O2P C   A 457      95.068  60.111  27.480  1.00134.35      A16S
ATOM   9579  O5* C   A 457      94.284  60.602  29.800  1.00 76.51      A16S
ATOM   9580  C5* C   A 457      94.075  60.304  31.197  1.00 76.51      A16S
ATOM   9581  C4* C   A 457      93.514  61.505  31.918  1.00 76.51      A16S
ATOM   9582  O4* C   A 457      94.560  62.470  32.183  1.00 76.51      A16S
ATOM   9583  C1* C   A 457      94.034  63.782  32.072  1.00 76.51      A16S
ATOM   9584  N1  C   A 457      94.786  64.493  31.019  1.00134.35      A16S
ATOM   9585  C6  C   A 457      95.243  63.827  29.913  1.00134.35      A16S
ATOM   9586  C2  C   A 457      95.020  65.867  31.159  1.00134.35      A16S
ATOM   9587  O2  C   A 457      94.616  66.452  32.180  1.00134.35      A16S
ATOM   9588  N3  C   A 457      95.685  66.524  30.182  1.00134.35      A16S
ATOM   9589  C4  C   A 457      96.119  65.864  29.107  1.00134.35      A16S
ATOM   9590  N4  C   A 457      96.769  66.555  28.170  1.00134.35      A16S
ATOM   9591  C5  C   A 457      95.907  64.466  28.944  1.00134.35      A16S
ATOM   9592  C2* C   A 457      92.537  63.670  31.759  1.00 76.51      A16S
ATOM   9593  O2* C   A 457      91.757  63.839  32.926  1.00 76.51      A16S
ATOM   9594  C3* C   A 457      92.446  62.271  31.160  1.00 76.51      A16S
ATOM   9595  O3* C   A 457      91.170  61.679  31.326  1.00 76.51      A16S
ATOM   9596  P   C   A 458      90.055  61.878  30.193  1.00 67.82      A16S
ATOM   9597  O1P C   A 458      88.941  60.952  30.530  1.00127.34      A16S
ATOM   9598  O2P C   A 458      90.682  61.808  28.844  1.00127.34      A16S
ATOM   9599  O5* C   A 458      89.559  63.372  30.432  1.00 67.82      A16S
ATOM   9600  C5* C   A 458      88.800  63.719  31.608  1.00 67.82      A16S
ATOM   9601  C4* C   A 458      88.439  65.183  31.585  1.00 67.82      A16S
ATOM   9602  O4* C   A 458      89.641  65.974  31.740  1.00 67.82      A16S
ATOM   9603  C1* C   A 458      89.552  67.142  30.939  1.00 67.82      A16S
ATOM   9604  N1  C   A 458      90.704  67.158  30.009  1.00127.34      A16S
ATOM   9605  C6  C   A 458      91.408  66.013  29.755  1.00127.34      A16S
ATOM   9606  C2  C   A 458      91.070  68.362  29.385  1.00127.34      A16S
ATOM   9607  O2  C   A 458      90.429  69.395  29.636  1.00127.34      A16S
ATOM   9608  N3  C   A 458      92.115  68.364  28.526  1.00127.34      A16S
ATOM   9609  C4  C   A 458      92.787  67.235  28.286  1.00127.34      A16S
ATOM   9610  N4  C   A 458      93.803  67.279  27.428  1.00127.34      A16S
ATOM   9611  C5  C   A 458      92.445  66.009  28.913  1.00127.34      A16S
ATOM   9612  C2* C   A 458      88.180  67.142  30.255  1.00 67.82      A16S
ATOM   9613  O2* C   A 458      87.279  67.952  30.978  1.00 67.82      A16S
ATOM   9614  C3* C   A 458      87.804  65.668  30.295  1.00 67.82      A16S
ATOM   9615  O3* C   A 458      86.402  65.492  30.338  1.00 67.82      A16S
ATOM   9616  P   G   A 459      85.632  64.952  29.038  1.00 71.79      A16S
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ATOM   9617  O1P G   A 459      84.198  64.787  29.395  1.00 92.94      A16S
ATOM   9618  O2P G   A 459      86.393  63.790  28.494  1.00 92.94      A16S
ATOM   9619  O5* G   A 459      85.749  66.152  27.997  1.00 71.79      A16S
ATOM   9620  C5* G   A 459      85.232  67.460  28.303  1.00 71.79      A16S
ATOM   9621  C4* G   A 459      85.791  68.479  27.341  1.00 71.79      A16S
ATOM   9622  O4* G   A 459      87.190  68.718  27.634  1.00 71.79      A16S
ATOM   9623  C1* G   A 459      87.900  68.935  26.427  1.00 71.79      A16S
ATOM   9624  N9  G   A 459      88.942  67.916  26.306  1.00 92.94      A16S
ATOM   9625  C4  G   A 459      89.816  67.746  25.251  1.00 92.94      A16S
ATOM   9626  N3  G   A 459      89.849  68.478  24.117  1.00 92.94      A16S
ATOM   9627  C2  G   A 459      90.821  68.092  23.310  1.00 92.94      A16S
ATOM   9628  N2  G   A 459      91.009  68.718  22.147  1.00 92.94      A16S
ATOM   9629  N1  G   A 459      91.685  67.066  23.587  1.00 92.94      A16S
ATOM   9630  C6  G   A 459      91.668  66.299  24.743  1.00 92.94      A16S
ATOM   9631  O6  G   A 459      92.498  65.399  24.894  1.00 92.94      A16S
ATOM   9632  C5  G   A 459      90.634  66.702  25.621  1.00 92.94      A16S
ATOM   9633  N7  G   A 459      90.269  66.207  26.863  1.00 92.94      A16S
ATOM   9634  C8  G   A 459      89.261  66.950  27.226  1.00 92.94      A16S
ATOM   9635  C2* G   A 459      86.890  68.898  25.282  1.00 71.79      A16S
ATOM   9636  O2* G   A 459      86.471  70.216  24.999  1.00 71.79      A16S
ATOM   9637  C3* G   A 459      85.777  68.057  25.884  1.00 71.79      A16S
ATOM   9638  O3* G   A 459      84.529  68.288  25.260  1.00 71.79      A16S
ATOM   9639  P   A   A 460      83.769  67.064  24.565  1.00 96.09      A16S
ATOM   9640  O1P A   A 460      82.796  67.638  23.602  1.00109.14      A16S
ATOM   9641  O2P A   A 460      83.294  66.178  25.658  1.00109.14      A16S
ATOM   9642  O5* A   A 460      84.907  66.301  23.744  1.00 96.09      A16S
ATOM   9643  C5* A   A 460      84.794  64.882  23.451  1.00 96.09      A16S
ATOM   9644  C4* A   A 460      85.547  64.531  22.179  1.00 96.09      A16S
ATOM   9645  O4* A   A 460      85.104  65.429  21.138  1.00 96.09      A16S
ATOM   9646  C1* A   A 460      86.176  65.718  20.272  1.00 96.09      A16S
ATOM   9647  N9  A   A 460      86.198  67.169  20.042  1.00109.14      A16S
ATOM   9648  C4  A   A 460      86.530  67.816  18.871  1.00109.14      A16S
ATOM   9649  N3  A   A 460      86.965  67.267  17.724  1.00109.14      A16S
ATOM   9650  C2  A   A 460      87.165  68.204  16.796  1.00109.14      A16S
ATOM   9651  N1  A   A 460      86.993  69.524  16.877  1.00109.14      A16S
ATOM   9652  C6  A   A 460      86.553  70.045  18.040  1.00109.14      A16S
ATOM   9653  N6  A   A 460      86.381  71.363  18.118  1.00109.14      A16S
ATOM   9654  C5  A   A 460      86.304  69.159  19.105  1.00109.14      A16S
ATOM   9655  N7  A   A 460      85.868  69.365  20.406  1.00109.14      A16S
ATOM   9656  C8  A   A 460      85.835  68.161  20.922  1.00109.14      A16S
ATOM   9657  C2* A   A 460      87.436  64.994  20.777  1.00 96.09      A16S
ATOM   9658  O2* A   A 460      87.659  63.825  20.008  1.00 96.09      A16S
ATOM   9659  C3* A   A 460      87.071  64.637  22.219  1.00 96.09      A16S
ATOM   9660  O3* A   A 460      87.612  63.335  22.546  1.00 96.09      A16S
ATOM   9661  P   C   A 461      89.003  63.196  23.356  1.00113.70      A16S
ATOM   9662  O1P C   A 461      88.917  61.959  24.178  1.00161.44      A16S
ATOM   9663  O2P C   A 461      89.306  64.488  24.018  1.00161.44      A16S
ATOM   9664  O5* C   A 461      90.102  62.953  22.226  1.00113.70      A16S
ATOM   9665  C5* C   A 461      90.578  64.036  21.389  1.00113.70      A16S
ATOM   9666  C4* C   A 461      92.066  63.888  21.144  1.00113.70      A16S
ATOM   9667  O4* C   A 461      92.344  62.493  20.875  1.00113.70      A16S
ATOM   9668  C1* C   A 461      93.000  62.369  19.634  1.00113.70      A16S
ATOM   9669  N1  C   A 461      92.544  61.116  19.004  1.00161.44      A16S
ATOM   9670  C6  C   A 461      91.247  60.961  18.596  1.00161.44      A16S
ATOM   9671  C2  C   A 461      93.466  60.065  18.842  1.00161.44      A16S
ATOM   9672  O2  C   A 461      94.645  60.230  19.203  1.00161.44      A16S
ATOM   9673  N3  C   A 461      93.048  58.899  18.298  1.00161.44      A16S
ATOM   9674  C4  C   A 461      91.775  58.756  17.919  1.00161.44      A16S
ATOM   9675  N4  C   A 461      91.404  57.581  17.404  1.00161.44      A16S
ATOM   9676  C5  C   A 461      90.824  59.811  18.055  1.00161.44      A16S
ATOM   9677  C2* C   A 461      92.711  63.658  18.859  1.00113.70      A16S
ATOM   9678  O2* C   A 461      93.734  63.913  17.915  1.00113.70      A16S
ATOM   9679  C3* C   A 461      92.660  64.692  19.984  1.00113.70      A16S
ATOM   9680  O3* C   A 461      94.012  65.067  20.293  1.00113.70      A16S
ATOM   9681  P   G   A 462      94.460  66.618  20.307  1.00 79.77      A16S
ATOM   9682  O1P G   A 462      95.857  66.659  19.800  1.00 91.44      A16S
ATOM   9683  O2P G   A 462      94.169  67.130  21.666  1.00 91.44      A16S
ATOM   9684  O5* G   A 462      93.506  67.369  19.261  1.00 79.77      A16S
ATOM   9685  C5* G   A 462      93.892  67.555  17.872  1.00 79.77      A16S
ATOM   9686  C4* G   A 462      93.244  68.803  17.270  1.00 79.77      A16S
ATOM   9687  O4* G   A 462      91.798  68.670  17.225  1.00 79.77      A16S
ATOM   9688  C1* G   A 462      91.190  69.953  17.358  1.00 79.77      A16S
ATOM   9689  N9  G   A 462      90.282  69.932  18.509  1.00 91.44      A16S
ATOM   9690  C4  G   A 462      89.580  71.004  19.023  1.00 91.44      A16S
ATOM   9691  N3  G   A 462      89.583  72.265  18.539  1.00 91.44      A16S
ATOM   9692  C2  G   A 462      88.816  73.074  19.256  1.00 91.44      A16S
ATOM   9693  N2  G   A 462      88.702  74.367  18.918  1.00 91.44      A16S
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ATOM	9694	N1	G	A	462	88.102	72.679	20.358	1.00	91.44	A16S
ATOM	9695	C6	G	A	462	88.079	71.389	20.874	1.00	91.44	A16S
ATOM	9696	O6	G	A	462	87.395	71.139	21.877	1.00	91.44	A16S
ATOM	9697	C5	G	A	462	88.901	70.506	20.114	1.00	91.44	A16S
ATOM	9698	N7	G	A	462	89.149	69.149	20.273	1.00	91.44	A16S
ATOM	9699	C8	G	A	462	89.968	68.853	19.301	1.00	91.44	A16S
ATOM	9700	C2*	G	A	462	92.310	70.992	17.494	1.00	79.77	A16S
ATOM	9701	O2*	G	A	462	92.572	71.631	16.258	1.00	79.77	A16S
ATOM	9702	C3*	G	A	462	93.482	70.139	17.964	1.00	79.77	A16S
ATOM	9703	O3*	G	A	462	94.690	70.743	17.551	1.00	79.77	A16S
ATOM	9704	P	A	A	463	95.395	71.820	18.499	1.00	54.34	A16S
ATOM	9705	O1P	A	A	463	96.487	72.419	17.699	1.00	93.06	A16S
ATOM	9706	O2P	A	A	463	95.703	71.180	19.803	1.00	93.06	A16S
ATOM	9707	O5*	A	A	463	94.277	72.927	18.742	1.00	54.34	A16S
ATOM	9708	C5*	A	A	463	94.235	74.129	17.944	1.00	54.34	A16S
ATOM	9709	C4*	A	A	463	93.434	75.207	18.646	1.00	54.34	A16S
ATOM	9710	O4*	A	A	463	92.071	74.741	18.839	1.00	54.34	A16S
ATOM	9711	C1*	A	A	463	91.551	75.279	20.044	1.00	54.34	A16S
ATOM	9712	N9	A	A	463	91.223	74.184	20.953	1.00	93.06	A16S
ATOM	9713	C4	A	A	463	90.206	74.182	21.872	1.00	93.06	A16S
ATOM	9714	N3	A	A	463	89.293	75.144	22.075	1.00	93.06	A16S
ATOM	9715	C2	A	A	463	88.464	74.797	23.052	1.00	93.06	A16S
ATOM	9716	N1	A	A	463	88.450	73.687	23.796	1.00	93.06	A16S
ATOM	9717	C6	A	A	463	89.389	72.746	23.566	1.00	93.06	A16S
ATOM	9718	N6	A	A	463	89.389	71.646	24.318	1.00	93.06	A16S
ATOM	9719	C5	A	A	463	90.315	72.987	22.550	1.00	93.06	A16S
ATOM	9720	N7	A	A	463	91.365	72.234	22.051	1.00	93.06	A16S
ATOM	9721	C8	A	A	463	91.865	72.983	21.103	1.00	93.06	A16S
ATOM	9722	C2*	A	A	463	92.628	76.161	20.668	1.00	54.34	A16S
ATOM	9723	O2*	A	A	463	92.397	77.505	20.322	1.00	54.34	A16S
ATOM	9724	C3*	A	A	463	93.896	75.603	20.040	1.00	54.34	A16S
ATOM	9725	O3*	A	A	463	94.907	76.592	20.035	1.00	54.34	A16S
ATOM	9726	P	G	A	474	95.880	76.736	21.310	1.00	52.83	A16S
ATOM	9727	O1P	G	A	474	96.587	78.040	21.195	1.00	96.81	A16S
ATOM	9728	O2P	G	A	474	96.670	75.485	21.408	1.00	96.81	A16S
ATOM	9729	O5*	G	A	474	94.907	76.780	22.576	1.00	52.83	A16S
ATOM	9730	C5*	G	A	474	94.202	77.976	22.952	1.00	52.83	A16S
ATOM	9731	C4*	G	A	474	93.354	77.720	24.177	1.00	52.83	A16S
ATOM	9732	O4*	G	A	474	92.350	76.721	23.860	1.00	52.83	A16S
ATOM	9733	C1*	G	A	474	92.132	75.879	24.983	1.00	52.83	A16S
ATOM	9734	N9	G	A	474	92.533	74.520	24.628	1.00	96.81	A16S
ATOM	9735	C4	G	A	474	92.179	73.356	25.274	1.00	96.81	A16S
ATOM	9736	N3	G	A	474	91.345	73.252	26.330	1.00	96.81	A16S
ATOM	9737	C2	G	A	474	91.234	72.002	26.749	1.00	96.81	A16S
ATOM	9738	N2	G	A	474	90.440	71.711	27.786	1.00	96.81	A16S
ATOM	9739	N1	G	A	474	91.892	70.943	26.180	1.00	96.81	A16S
ATOM	9740	C6	G	A	474	92.754	71.028	25.094	1.00	96.81	A16S
ATOM	9741	O6	G	A	474	93.304	70.010	24.660	1.00	96.81	A16S
ATOM	9742	C5	G	A	474	92.876	72.358	24.632	1.00	96.81	A16S
ATOM	9743	N7	G	A	474	93.623	72.874	23.586	1.00	96.81	A16S
ATOM	9744	C8	G	A	474	93.381	74.154	23.616	1.00	96.81	A16S
ATOM	9745	C2*	G	A	474	93.000	76.403	26.128	1.00	52.83	A16S
ATOM	9746	O2*	G	A	474	92.241	77.226	26.983	1.00	52.83	A16S
ATOM	9747	C3*	G	A	474	94.093	77.146	25.374	1.00	52.83	A16S
ATOM	9748	O3*	G	A	474	94.716	78.141	26.174	1.00	52.83	A16S
ATOM	9749	P	G	A	475	95.859	77.710	27.226	1.00	66.55	A16S
ATOM	9750	O1P	G	A	475	96.359	78.949	27.875	1.00	119.61	A16S
ATOM	9751	O2P	G	A	475	96.819	76.808	26.539	1.00	119.61	A16S
ATOM	9752	O5*	G	A	475	95.072	76.850	28.313	1.00	66.55	A16S
ATOM	9753	C5*	G	A	475	94.104	77.464	29.182	1.00	66.55	A16S
ATOM	9754	C4*	G	A	475	93.620	76.470	30.207	1.00	66.55	A16S
ATOM	9755	O4*	G	A	475	92.815	75.456	29.556	1.00	66.55	A16S
ATOM	9756	C1*	G	A	475	93.063	74.193	30.155	1.00	66.55	A16S
ATOM	9757	N9	G	A	475	93.614	73.311	29.132	1.00	119.61	A16S
ATOM	9758	C4	G	A	475	93.912	71.976	29.269	1.00	119.61	A16S
ATOM	9759	N3	G	A	475	93.734	71.234	30.380	1.00	119.61	A16S
ATOM	9760	C2	G	A	475	94.132	69.987	30.208	1.00	119.61	A16S
ATOM	9761	N2	G	A	475	94.026	69.106	31.214	1.00	119.61	A16S
ATOM	9762	N1	G	A	475	94.664	69.511	29.036	1.00	119.61	A16S
ATOM	9763	C6	G	A	475	94.855	70.261	27.881	1.00	119.61	A16S
ATOM	9764	O6	G	A	475	95.347	69.737	26.876	1.00	119.61	A16S
ATOM	9765	C5	G	A	475	94.430	71.592	28.052	1.00	119.61	A16S
ATOM	9766	N7	G	A	475	94.448	72.657	27.166	1.00	119.61	A16S
ATOM	9767	C8	G	A	475	93.955	73.652	27.847	1.00	119.61	A16S
ATOM	9768	C2*	G	A	475	94.037	74.404	31.320	1.00	66.55	A16S
ATOM	9769	O2*	G	A	475	93.340	74.515	32.541	1.00	66.55	A16S
ATOM	9770	C3*	G	A	475	94.725	75.700	30.917	1.00	66.55	A16S

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ATOM   9771  O3*  G   A 475      95.244  76.408  32.033  1.00 66.55      A16S
ATOM   9772  P    G   A 476      96.781  76.206  32.454  1.00 84.17      A16S
ATOM   9773  O1P  G   A 476      97.129  77.271  33.428  1.00128.78      A16S
ATOM   9774  O2P  G   A 476      97.583  76.059  31.212  1.00128.78      A16S
ATOM   9775  O5*  G   A 476      96.780  74.815  33.230  1.00 84.17      A16S
ATOM   9776  C5*  G   A 476      95.925  74.612  34.364  1.00 84.17      A16S
ATOM   9777  C4*  G   A 476      95.832  73.144  34.702  1.00 84.17      A16S
ATOM   9778  O4*  G   A 476      95.246  72.419  33.588  1.00 84.17      A16S
ATOM   9779  C1*  G   A 476      95.805  71.115  33.521  1.00 84.17      A16S
ATOM   9780  N9   G   A 476      96.464  70.945  32.227  1.00128.78      A16S
ATOM   9781  C4   G   A 476      97.069  69.797  31.766  1.00128.78      A16S
ATOM   9782  N3   G   A 476      97.150  68.623  32.427  1.00128.78      A16S
ATOM   9783  C2   G   A 476      97.797  67.706  31.728  1.00128.78      A16S
ATOM   9784  N2   G   A 476      97.967  66.480  32.235  1.00128.78      A16S
ATOM   9785  N1   G   A 476      98.324  67.922  30.479  1.00128.78      A16S
ATOM   9786  C6   G   A 476      98.251  69.121  29.777  1.00128.78      A16S
ATOM   9787  O6   G   A 476      98.757  69.209  28.650  1.00128.78      A16S
ATOM   9788  C5   G   A 476      97.559  70.117  30.517  1.00128.78      A16S
ATOM   9789  N7   G   A 476      97.266  71.435  30.196  1.00128.78      A16S
ATOM   9790  C8   G   A 476      96.617  71.886  31.236  1.00128.78      A16S
ATOM   9791  C2*  G   A 476      96.788  70.973  34.685  1.00 84.17      A16S
ATOM   9792  O2*  G   A 476      96.144  70.339  35.774  1.00 84.17      A16S
ATOM   9793  C3*  G   A 476      97.144  72.426  34.967  1.00 84.17      A16S
ATOM   9794  O3*  G   A 476      97.609  72.612  36.293  1.00 84.17      A16S
ATOM   9795  P    G   A 477      99.166  72.378  36.626  1.00103.59      A16S
ATOM   9796  O1P  G   A 477      99.357  72.608  38.082  1.00 97.31      A16S
ATOM   9797  O2P  G   A 477     100.008  73.116  35.647  1.00 97.31      A16S
ATOM   9798  O5*  G   A 477      99.364  70.827  36.373  1.00103.59      A16S
ATOM   9799  C5*  G   A 477      98.739  69.878  37.235  1.00103.59      A16S
ATOM   9800  C4*  G   A 477      99.231  68.499  36.917  1.00103.59      A16S
ATOM   9801  O4*  G   A 477      98.769  68.112  35.595  1.00103.59      A16S
ATOM   9802  C1*  G   A 477      99.745  67.295  34.972  1.00103.59      A16S
ATOM   9803  N9   G   A 477     100.211  67.959  33.757  1.00 97.31      A16S
ATOM   9804  C4   G   A 477     100.891  67.362  32.723  1.00 97.31      A16S
ATOM   9805  N3   G   A 477     101.189  66.049  32.625  1.00 97.31      A16S
ATOM   9806  C2   G   A 477     101.891  65.781  31.541  1.00 97.31      A16S
ATOM   9807  N2   G   A 477     102.269  64.525  31.291  1.00 97.31      A16S
ATOM   9808  N1   G   A 477     102.277  66.727  30.625  1.00 97.31      A16S
ATOM   9809  C6   G   A 477     101.991  68.085  30.707  1.00 97.31      A16S
ATOM   9810  O6   G   A 477     102.416  68.858  29.840  1.00 97.31      A16S
ATOM   9811  C5   G   A 477     101.219  68.386  31.861  1.00 97.31      A16S
ATOM   9812  N7   G   A 477     100.713  69.595  32.318  1.00 97.31      A16S
ATOM   9813  C8   G   A 477     100.116  69.293  33.439  1.00 97.31      A16S
ATOM   9814  C2*  G   A 477     100.897  67.117  35.966  1.00103.59      A16S
ATOM   9815  O2*  G   A 477     100.735  65.912  36.689  1.00103.59      A16S
ATOM   9816  C3*  G   A 477     100.740  68.352  36.841  1.00103.59      A16S
ATOM   9817  O3*  G   A 477     101.353  68.228  38.119  1.00103.59      A16S
ATOM   9818  P    A   A 478     102.896  68.657  38.304  1.00121.55      A16S
ATOM   9819  O1P  A   A 478     103.158  68.753  39.763  1.00127.62      A16S
ATOM   9820  O2P  A   A 478     103.182  69.830  37.433  1.00127.62      A16S
ATOM   9821  O5*  A   A 478     103.690  67.395  37.739  1.00121.55      A16S
ATOM   9822  C5*  A   A 478     103.449  66.086  38.288  1.00121.55      A16S
ATOM   9823  C4*  A   A 478     104.018  65.006  37.394  1.00121.55      A16S
ATOM   9824  O4*  A   A 478     103.306  64.951  36.131  1.00121.55      A16S
ATOM   9825  C1*  A   A 478     104.187  64.515  35.105  1.00121.55      A16S
ATOM   9826  N9   A   A 478     104.301  65.574  34.103  1.00127.62      A16S
ATOM   9827  C4   A   A 478     104.947  65.477  32.894  1.00127.62      A16S
ATOM   9828  N3   A   A 478     105.588  64.408  32.394  1.00127.62      A16S
ATOM   9829  C2   A   A 478     106.098  64.685  31.198  1.00127.62      A16S
ATOM   9830  N1   A   A 478     106.042  65.823  30.497  1.00127.62      A16S
ATOM   9831  C6   A   A 478     105.388  66.877  31.028  1.00127.62      A16S
ATOM   9832  N6   A   A 478     105.322  68.011  30.326  1.00127.62      A16S
ATOM   9833  C5   A   A 478     104.809  66.714  32.294  1.00127.62      A16S
ATOM   9834  N7   A   A 478     104.090  67.577  33.107  1.00127.62      A16S
ATOM   9835  C8   A   A 478     103.813  66.855  34.164  1.00127.62      A16S
ATOM   9836  C2*  A   A 478     105.539  64.239  35.754  1.00121.55      A16S
ATOM   9837  O2*  A   A 478     105.620  62.866  36.080  1.00121.55      A16S
ATOM   9838  C3*  A   A 478     105.472  65.131  36.985  1.00121.55      A16S
ATOM   9839  O3*  A   A 478     106.367  64.705  37.990  1.00121.55      A16S
ATOM   9840  P    C   A 479     107.879  65.234  37.957  1.00 85.33      A16S
ATOM   9841  O1P  C   A 479     108.584  64.676  39.135  1.00 77.89      A16S
ATOM   9842  O2P  C   A 479     107.838  66.705  37.754  1.00 77.89      A16S
ATOM   9843  O5*  C   A 479     108.482  64.538  36.658  1.00 85.33      A16S
ATOM   9844  C5*  C   A 479     108.420  63.107  36.509  1.00 85.33      A16S
ATOM   9845  C4*  C   A 479     109.102  62.668  35.233  1.00 85.33      A16S
ATOM   9846  O4*  C   A 479     108.339  63.069  34.064  1.00 85.33      A16S
ATOM   9847  C1*  C   A 479     109.227  63.334  32.989  1.00 85.33      A16S
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ATOM   9848  N1  C   A 479     109.065  64.736  32.557  1.00 77.89      A16S
ATOM   9849  C6  C   A 479     108.513  65.674  33.383  1.00 77.89      A16S
ATOM   9850  C2  C   A 479     109.509  65.097  31.278  1.00 77.89      A16S
ATOM   9851  O2  C   A 479     109.996  64.225  30.539  1.00 77.89      A16S
ATOM   9852  N3  C   A 479     109.398  66.380  30.881  1.00 77.89      A16S
ATOM   9853  C4  C   A 479     108.867  67.286  31.699  1.00 77.89      A16S
ATOM   9854  N4  C   A 479     108.788  68.542  31.264  1.00 77.89      A16S
ATOM   9855  C5  C   A 479     108.397  66.947  32.999  1.00 77.89      A16S
ATOM   9856  C2* C   A 479     110.648  63.068  33.484  1.00 85.33      A16S
ATOM   9857  O2* C   A 479     111.032  61.768  33.088  1.00 85.33      A16S
ATOM   9858  C3* C   A 479     110.487  63.231  34.991  1.00 85.33      A16S
ATOM   9859  O3* C   A 479     111.466  62.532  35.735  1.00 85.33      A16S
ATOM   9860  P   U   A 480     112.708  63.337  36.353  1.00 82.52      A16S
ATOM   9861  O1P U   A 480     113.509  62.354  37.134  1.00 77.51      A16S
ATOM   9862  O2P U   A 480     112.200  64.577  37.014  1.00 77.51      A16S
ATOM   9863  O5* U   A 480     113.540  63.771  35.064  1.00 82.52      A16S
ATOM   9864  C5* U   A 480     113.950  62.785  34.098  1.00 82.52      A16S
ATOM   9865  C4* U   A 480     114.392  63.442  32.812  1.00 82.52      A16S
ATOM   9866  O4* U   A 480     113.281  64.096  32.156  1.00 82.52      A16S
ATOM   9867  C1* U   A 480     113.762  65.188  31.397  1.00 82.52      A16S
ATOM   9868  N1  U   A 480     113.119  66.423  31.861  1.00 77.51      A16S
ATOM   9869  C6  U   A 480     112.884  66.663  33.193  1.00 77.51      A16S
ATOM   9870  C2  U   A 480     112.777  67.354  30.902  1.00 77.51      A16S
ATOM   9871  O2  U   A 480     112.943  67.167  29.710  1.00 77.51      A16S
ATOM   9872  N3  U   A 480     112.231  68.515  31.387  1.00 77.51      A16S
ATOM   9873  C4  U   A 480     111.987  68.830  32.702  1.00 77.51      A16S
ATOM   9874  O4  U   A 480     111.578  69.956  32.985  1.00 77.51      A16S
ATOM   9875  C5  U   A 480     112.343  67.804  33.635  1.00 77.51      A16S
ATOM   9876  C2* U   A 480     115.269  65.262  31.599  1.00 82.52      A16S
ATOM   9877  O2* U   A 480     115.910  64.554  30.563  1.00 82.52      A16S
ATOM   9878  C3* U   A 480     115.431  64.537  32.917  1.00 82.52      A16S
ATOM   9879  O3* U   A 480     116.728  64.021  33.025  1.00 82.52      A16S
ATOM   9880  P   G   A 481     117.731  64.669  34.085  1.00 59.37      A16S
ATOM   9881  O1P G   A 481     118.450  63.557  34.761  1.00 81.04      A16S
ATOM   9882  O2P G   A 481     117.036  65.700  34.899  1.00 81.04      A16S
ATOM   9883  O5* G   A 481     118.793  65.450  33.217  1.00 59.37      A16S
ATOM   9884  C5* G   A 481     119.881  66.009  33.892  1.00 59.37      A16S
ATOM   9885  C4* G   A 481     120.942  66.432  32.946  1.00 59.37      A16S
ATOM   9886  O4* G   A 481     120.434  67.491  32.100  1.00 59.37      A16S
ATOM   9887  C1* G   A 481     121.093  68.704  32.406  1.00 59.37      A16S
ATOM   9888  N9  G   A 481     120.095  69.770  32.377  1.00 81.04      A16S
ATOM   9889  C4  G   A 481     119.645  70.454  31.271  1.00 81.04      A16S
ATOM   9890  N3  G   A 481     120.065  70.279  30.004  1.00 81.04      A16S
ATOM   9891  C2  G   A 481     119.431  71.079  29.164  1.00 81.04      A16S
ATOM   9892  N2  G   A 481     119.736  71.057  27.858  1.00 81.04      A16S
ATOM   9893  N1  G   A 481     118.455  71.964  29.540  1.00 81.04      A16S
ATOM   9894  C6  G   A 481     118.005  72.148  30.837  1.00 81.04      A16S
ATOM   9895  O6  G   A 481     117.103  72.955  31.067  1.00 81.04      A16S
ATOM   9896  C5  G   A 481     118.685  71.319  31.742  1.00 81.04      A16S
ATOM   9897  N7  G   A 481     118.545  71.197  33.112  1.00 81.04      A16S
ATOM   9898  C8  G   A 481     119.401  70.272  33.445  1.00 81.04      A16S
ATOM   9899  C2* G   A 481     121.743  68.509  33.777  1.00 59.37      A16S
ATOM   9900  O2* G   A 481     122.906  69.275  33.946  1.00 59.37      A16S
ATOM   9901  C3* G   A 481     122.061  67.025  33.771  1.00 59.37      A16S
ATOM   9902  O3* G   A 481     123.288  66.746  33.155  1.00 59.37      A16S
ATOM   9903  P   A   A 482     124.124  65.463  33.614  1.00 54.99      A16S
ATOM   9904  O1P A   A 482     123.345  64.272  33.194  1.00 50.93      A16S
ATOM   9905  O2P A   A 482     124.528  65.628  35.042  1.00 50.93      A16S
ATOM   9906  O5* A   A 482     125.424  65.567  32.713  1.00 54.99      A16S
ATOM   9907  C5* A   A 482     126.006  64.417  32.096  1.00 54.99      A16S
ATOM   9908  C4* A   A 482     126.829  64.855  30.922  1.00 54.99      A16S
ATOM   9909  O4* A   A 482     125.955  65.168  29.818  1.00 54.99      A16S
ATOM   9910  C1* A   A 482     126.415  66.326  29.161  1.00 54.99      A16S
ATOM   9911  N9  A   A 482     125.353  67.330  29.216  1.00 50.93      A16S
ATOM   9912  C4  A   A 482     125.375  68.569  28.626  1.00 50.93      A16S
ATOM   9913  N3  A   A 482     126.368  69.107  27.899  1.00 50.93      A16S
ATOM   9914  C2  A   A 482     126.038  70.324  27.494  1.00 50.93      A16S
ATOM   9915  N1  A   A 482     124.915  71.016  27.718  1.00 50.93      A16S
ATOM   9916  C6  A   A 482     123.942  70.444  28.456  1.00 50.93      A16S
ATOM   9917  N6  A   A 482     122.828  71.133  28.686  1.00 50.93      A16S
ATOM   9918  C5  A   A 482     124.165  69.156  28.938  1.00 50.93      A16S
ATOM   9919  N7  A   A 482     123.388  68.305  29.705  1.00 50.93      A16S
ATOM   9920  C8  A   A 482     124.136  67.241  29.846  1.00 50.93      A16S
ATOM   9921  C2* A   A 482     127.725  66.756  29.824  1.00 54.99      A16S
ATOM   9922  O2* A   A 482     128.802  66.215  29.090  1.00 54.99      A16S
ATOM   9923  C3* A   A 482     127.596  66.130  31.203  1.00 54.99      A16S
ATOM   9924  O3* A   A 482     128.843  65.821  31.808  1.00 54.99      A16S
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ATOM   9925  P    C   A 483     129.311  66.623  33.121  1.00 51.22      A16S
ATOM   9926  O1P  C   A 483     130.627  66.079  33.553  1.00 58.70      A16S
ATOM   9927  O2P  C   A 483     128.168  66.619  34.071  1.00 58.70      A16S
ATOM   9928  O5*  C   A 483     129.561  68.104  32.585  1.00 51.22      A16S
ATOM   9929  C5*  C   A 483     130.467  68.333  31.480  1.00 51.22      A16S
ATOM   9930  C4*  C   A 483     130.185  69.659  30.806  1.00 51.22      A16S
ATOM   9931  O4*  C   A 483     128.860  69.671  30.222  1.00 51.22      A16S
ATOM   9932  C1*  C   A 483     128.336  70.980  30.274  1.00 51.22      A16S
ATOM   9933  N1   C   A 483     127.085  70.975  31.045  1.00 58.70      A16S
ATOM   9934  C6   C   A 483     126.821  70.009  31.976  1.00 58.70      A16S
ATOM   9935  C2   C   A 483     126.179  72.012  30.834  1.00 58.70      A16S
ATOM   9936  O2   C   A 483     126.407  72.835  29.944  1.00 58.70      A16S
ATOM   9937  N3   C   A 483     125.080  72.095  31.600  1.00 58.70      A16S
ATOM   9938  C4   C   A 483     124.862  71.192  32.549  1.00 58.70      A16S
ATOM   9939  N4   C   A 483     123.809  71.378  33.338  1.00 58.70      A16S
ATOM   9940  C5   C   A 483     125.731  70.079  32.746  1.00 58.70      A16S
ATOM   9941  C2*  C   A 483     129.386  71.882  30.923  1.00 51.22      A16S
ATOM   9942  O2*  C   A 483     130.106  72.531  29.903  1.00 51.22      A16S
ATOM   9943  C3*  C   A 483     130.236  70.884  31.696  1.00 51.22      A16S
ATOM   9944  O3*  C   A 483     131.582  71.316  31.791  1.00 51.22      A16S
ATOM   9945  P    G   A 484     132.163  71.865  33.185  1.00 75.41      A16S
ATOM   9946  O1P  G   A 484     131.965  73.337  33.207  1.00 59.32      A16S
ATOM   9947  O2P  G   A 484     133.533  71.307  33.352  1.00 59.32      A16S
ATOM   9948  O5*  G   A 484     131.245  71.223  34.313  1.00 75.41      A16S
ATOM   9949  C5*  G   A 484     131.757  71.057  35.644  1.00 75.41      A16S
ATOM   9950  C4*  G   A 484     130.719  70.428  36.529  1.00 75.41      A16S
ATOM   9951  O4*  G   A 484     129.679  71.400  36.802  1.00 75.41      A16S
ATOM   9952  C1*  G   A 484     128.411  70.894  36.429  1.00 75.41      A16S
ATOM   9953  N9   G   A 484     127.718  71.965  35.710  1.00 59.32      A16S
ATOM   9954  C4   G   A 484     126.374  72.301  35.771  1.00 59.32      A16S
ATOM   9955  N3   G   A 484     125.430  71.693  36.515  1.00 59.32      A16S
ATOM   9956  C2   G   A 484     124.241  72.257  36.362  1.00 59.32      A16S
ATOM   9957  N2   G   A 484     123.190  71.799  37.054  1.00 59.32      A16S
ATOM   9958  N1   G   A 484     123.995  73.314  35.535  1.00 59.32      A16S
ATOM   9959  C6   G   A 484     124.945  73.953  34.765  1.00 59.32      A16S
ATOM   9960  O6   G   A 484     124.617  74.901  34.063  1.00 59.32      A16S
ATOM   9961  C5   G   A 484     126.228  73.374  34.923  1.00 59.32      A16S
ATOM   9962  N7   G   A 484     127.441  73.712  34.342  1.00 59.32      A16S
ATOM   9963  C8   G   A 484     128.291  72.851  34.832  1.00 59.32      A16S
ATOM   9964  C2*  G   A 484     128.636  69.660  35.553  1.00 75.41      A16S
ATOM   9965  O2*  G   A 484     127.630  68.692  35.768  1.00 75.41      A16S
ATOM   9966  C3*  G   A 484     130.038  69.196  35.957  1.00 75.41      A16S
ATOM   9967  O3*  G   A 484     130.275  67.960  36.664  1.00 75.41      A16S
ATOM   9968  P    G   A 485     129.847  67.780  38.206  1.00 66.39      A16S
ATOM   9969  O1P  G   A 485     130.047  66.345  38.522  1.00 86.05      A16S
ATOM   9970  O2P  G   A 485     128.518  68.407  38.455  1.00 86.05      A16S
ATOM   9971  O5*  G   A 485     130.972  68.582  38.997  1.00 66.39      A16S
ATOM   9972  C5*  G   A 485     130.768  68.965  40.366  1.00 66.39      A16S
ATOM   9973  C4*  G   A 485     130.308  70.398  40.430  1.00 66.39      A16S
ATOM   9974  O4*  G   A 485     128.937  70.461  40.919  1.00 66.39      A16S
ATOM   9975  C1*  G   A 485     128.872  71.425  41.943  1.00 66.39      A16S
ATOM   9976  N9   G   A 485     127.750  71.142  42.827  1.00 86.05      A16S
ATOM   9977  C4   G   A 485     126.516  71.733  42.752  1.00 86.05      A16S
ATOM   9978  N3   G   A 485     126.139  72.648  41.840  1.00 86.05      A16S
ATOM   9979  C2   G   A 485     124.891  73.032  42.014  1.00 86.05      A16S
ATOM   9980  N2   G   A 485     124.356  73.925  41.177  1.00 86.05      A16S
ATOM   9981  N1   G   A 485     124.073  72.567  43.015  1.00 86.05      A16S
ATOM   9982  C6   G   A 485     124.439  71.627  43.969  1.00 86.05      A16S
ATOM   9983  O6   G   A 485     123.621  71.275  44.833  1.00 86.05      A16S
ATOM   9984  C5   G   A 485     125.785  71.194  43.784  1.00 86.05      A16S
ATOM   9985  N7   G   A 485     126.544  70.273  44.493  1.00 86.05      A16S
ATOM   9986  C8   G   A 485     127.701  70.273  43.888  1.00 86.05      A16S
ATOM   9987  C2*  G   A 485     130.258  71.440  42.571  1.00 66.39      A16S
ATOM   9988  O2*  G   A 485     130.437  72.630  43.301  1.00 66.39      A16S
ATOM   9989  C3*  G   A 485     131.129  71.324  41.325  1.00 66.39      A16S
ATOM   9990  O3*  G   A 485     131.212  72.594  40.679  1.00 66.39      A16S
ATOM   9991  P    U   A 486     132.208  73.720  41.244  1.00 89.61      A16S
ATOM   9992  O1P  U   A 486     133.464  73.029  41.632  1.00 51.19      A16S
ATOM   9993  O2P  U   A 486     131.495  74.551  42.239  1.00 51.19      A16S
ATOM   9994  O5*  U   A 486     132.471  74.660  39.988  1.00 89.61      A16S
ATOM   9995  C5*  U   A 486     133.570  74.421  39.102  1.00 89.61      A16S
ATOM   9996  C4*  U   A 486     133.225  74.910  37.725  1.00 89.61      A16S
ATOM   9997  O4*  U   A 486     132.130  74.118  37.207  1.00 89.61      A16S
ATOM   9998  C1*  U   A 486     131.264  74.937  36.444  1.00 89.61      A16S
ATOM   9999  N1   U   A 486     129.928  74.904  37.057  1.00 51.19      A16S
ATOM  10000  C6   U   A 486     129.706  74.264  38.255  1.00 51.19      A16S
ATOM  10001  C2   U   A 486     128.895  75.538  36.390  1.00 51.19      A16S
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ATOM  10002  O2  U   A 486     129.047  76.108  35.331  1.00 51.19      A16S
ATOM  10003  N3  U   A 486     127.678  75.476  37.014  1.00 51.19      A16S
ATOM  10004  C4  U   A 486     127.393  74.855  38.209  1.00 51.19      A16S
ATOM  10005  O4  U   A 486     126.251  74.897  38.651  1.00 51.19      A16S
ATOM  10006  C5  U   A 486     128.508  74.219  38.835  1.00 51.19      A16S
ATOM  10007  C2* U   A 486     131.868  76.340  36.408  1.00 89.61      A16S
ATOM  10008  O2* U   A 486     132.641  76.468  35.232  1.00 89.61      A16S
ATOM  10009  C3* U   A 486     132.716  76.336  37.669  1.00 89.61      A16S
ATOM  10010  O3* U   A 486     133.776  77.269  37.613  1.00 89.61      A16S
ATOM  10011  P   A   A 487     133.577  78.721  38.269  1.00 77.09      A16S
ATOM  10012  O1P A   A 487     134.796  79.530  37.957  1.00 64.57      A16S
ATOM  10013  O2P A   A 487     133.162  78.527  39.691  1.00 64.57      A16S
ATOM  10014  O5* A   A 487     132.348  79.340  37.462  1.00 77.09      A16S
ATOM  10015  C5* A   A 487     132.516  79.768  36.103  1.00 77.09      A16S
ATOM  10016  C4* A   A 487     131.286  80.487  35.619  1.00 77.09      A16S
ATOM  10017  O4* A   A 487     130.162  79.579  35.625  1.00 77.09      A16S
ATOM  10018  C1* A   A 487     128.983  80.285  35.957  1.00 77.09      A16S
ATOM  10019  N9  A   A 487     128.408  79.677  37.157  1.00 64.57      A16S
ATOM  10020  C4  A   A 487     127.153  79.919  37.656  1.00 64.57      A16S
ATOM  10021  N3  A   A 487     126.230  80.757  37.161  1.00 64.57      A16S
ATOM  10022  C2  A   A 487     125.127  80.720  37.894  1.00 64.57      A16S
ATOM  10023  N1  A   A 487     124.856  79.992  38.977  1.00 64.57      A16S
ATOM  10024  C6  A   A 487     125.806  79.160  39.450  1.00 64.57      A16S
ATOM  10025  N6  A   A 487     125.533  78.426  40.530  1.00 64.57      A16S
ATOM  10026  C5  A   A 487     127.028  79.113  38.768  1.00 64.57      A16S
ATOM  10027  N7  A   A 487     128.190  78.387  38.983  1.00 64.57      A16S
ATOM  10028  C8  A   A 487     128.977  78.757  38.005  1.00 64.57      A16S
ATOM  10029  C2* A   A 487     129.354  81.758  36.140  1.00 77.09      A16S
ATOM  10030  O2* A   A 487     129.098  82.458  34.943  1.00 77.09      A16S
ATOM  10031  C3* A   A 487     130.839  81.666  36.458  1.00 77.09      A16S
ATOM  10032  O3* A   A 487     131.526  82.839  36.074  1.00 77.09      A16S
ATOM  10033  P   C   A 488     131.932  83.919  37.186  1.00 78.34      A16S
ATOM  10034  O1P C   A 488     132.387  85.131  36.446  1.00 52.41      A16S
ATOM  10035  O2P C   A 488     132.839  83.272  38.170  1.00 52.41      A16S
ATOM  10036  O5* C   A 488     130.558  84.261  37.910  1.00 78.34      A16S
ATOM  10037  C5* C   A 488     129.511  84.953  37.213  1.00 78.34      A16S
ATOM  10038  C4* C   A 488     128.254  84.946  38.041  1.00 78.34      A16S
ATOM  10039  O4* C   A 488     127.792  83.578  38.167  1.00 78.34      A16S
ATOM  10040  C1* C   A 488     127.300  83.353  39.478  1.00 78.34      A16S
ATOM  10041  N1  C   A 488     128.164  82.346  40.127  1.00 52.41      A16S
ATOM  10042  C6  C   A 488     129.489  82.252  39.805  1.00 52.41      A16S
ATOM  10043  C2  C   A 488     127.611  81.488  41.075  1.00 52.41      A16S
ATOM  10044  O2  C   A 488     126.420  81.620  41.384  1.00 52.41      A16S
ATOM  10045  N3  C   A 488     128.392  80.542  41.641  1.00 52.41      A16S
ATOM  10046  C4  C   A 488     129.681  80.452  41.306  1.00 52.41      A16S
ATOM  10047  N4  C   A 488     130.415  79.492  41.875  1.00 52.41      A16S
ATOM  10048  C5  C   A 488     130.275  81.333  40.370  1.00 52.41      A16S
ATOM  10049  C2* C   A 488     127.322  84.694  40.213  1.00 78.34      A16S
ATOM  10050  O2* C   A 488     126.065  85.332  40.091  1.00 78.34      A16S
ATOM  10051  C3* C   A 488     128.435  85.422  39.473  1.00 78.34      A16S
ATOM  10052  O3* C   A 488     128.353  86.834  39.596  1.00 78.34      A16S
ATOM  10053  P   C   A 489     128.943  87.549  40.907  1.00 77.39      A16S
ATOM  10054  O1P C   A 489     128.837  89.012  40.670  1.00 47.59      A16S
ATOM  10055  O2P C   A 489     130.259  86.955  41.263  1.00 47.59      A16S
ATOM  10056  O5* C   A 489     127.903  87.135  42.038  1.00 77.39      A16S
ATOM  10057  C5* C   A 489     126.577  87.693  42.057  1.00 77.39      A16S
ATOM  10058  C4* C   A 489     125.870  87.322  43.337  1.00 77.39      A16S
ATOM  10059  O4* C   A 489     125.503  85.919  43.299  1.00 77.39      A16S
ATOM  10060  C1* C   A 489     125.621  85.364  44.597  1.00 77.39      A16S
ATOM  10061  N1  C   A 489     126.687  84.351  44.577  1.00 47.59      A16S
ATOM  10062  C6  C   A 489     127.681  84.394  43.642  1.00 47.59      A16S
ATOM  10063  C2  C   A 489     126.683  83.355  45.553  1.00 47.59      A16S
ATOM  10064  O2  C   A 489     125.729  83.306  46.364  1.00 47.59      A16S
ATOM  10065  N3  C   A 489     127.710  82.464  45.589  1.00 47.59      A16S
ATOM  10066  C4  C   A 489     128.688  82.535  44.685  1.00 47.59      A16S
ATOM  10067  N4  C   A 489     129.685  81.656  44.766  1.00 47.59      A16S
ATOM  10068  C5  C   A 489     128.689  83.515  43.660  1.00 47.59      A16S
ATOM  10069  C2* C   A 489     125.997  86.496  45.555  1.00 77.39      A16S
ATOM  10070  O2* C   A 489     124.829  87.030  46.152  1.00 77.39      A16S
ATOM  10071  C3* C   A 489     126.688  87.468  44.611  1.00 77.39      A16S
ATOM  10072  O3* C   A 489     126.727  88.798  45.109  1.00 77.39      A16S
ATOM  10073  P   G   A 490     127.993  89.282  45.979  1.00 76.66      A16S
ATOM  10074  O1P G   A 490     127.865  90.750  46.133  1.00101.04      A16S
ATOM  10075  O2P G   A 490     129.244  88.712  45.428  1.00101.04      A16S
ATOM  10076  O5* G   A 490     127.761  88.602  47.397  1.00 76.66      A16S
ATOM  10077  C5* G   A 490     126.592  88.900  48.185  1.00 76.66      A16S
ATOM  10078  C4* G   A 490     126.596  88.057  49.430  1.00 76.66      A16S
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ATOM  10079  O4*  G   A 490     126.411  86.664  49.056  1.00 76.66      A16S
ATOM  10080  C1*  G   A 490     127.246  85.834  49.855  1.00 76.66      A16S
ATOM  10081  N9   G   A 490     128.217  85.181  48.978  1.00101.04      A16S
ATOM  10082  C4   G   A 490     129.032  84.114  49.289  1.00101.04      A16S
ATOM  10083  N3   G   A 490     129.031  83.418  50.445  1.00101.04      A16S
ATOM  10084  C2   G   A 490     129.971  82.485  50.460  1.00101.04      A16S
ATOM  10085  N2   G   A 490     130.110  81.689  51.522  1.00101.04      A16S
ATOM  10086  N1   G   A 490     130.845  82.264  49.434  1.00101.04      A16S
ATOM  10087  C6   G   A 490     130.868  82.972  48.240  1.00101.04      A16S
ATOM  10088  O6   G   A 490     131.722  82.713  47.388  1.00101.04      A16S
ATOM  10089  C5   G   A 490     129.856  83.956  48.197  1.00101.04      A16S
ATOM  10090  N7   G   A 490     129.527  84.858  47.197  1.00101.04      A16S
ATOM  10091  C8   G   A 490     128.545  85.554  47.697  1.00101.04      A16S
ATOM  10092  C2*  G   A 490     127.952  86.734  50.877  1.00 76.66      A16S
ATOM  10093  O2*  G   A 490     127.266  86.731  52.113  1.00 76.66      A16S
ATOM  10094  C3*  G   A 490     127.921  88.086  50.175  1.00 76.66      A16S
ATOM  10095  O3*  G   A 490     128.025  89.189  51.067  1.00 76.66      A16S
ATOM  10096  P    G   A 491     129.481  89.711  51.515  1.00 68.69      A16S
ATOM  10097  O1P  G   A 491     129.275  90.863  52.427  1.00116.01      A16S
ATOM  10098  O2P  G   A 491     130.324  89.876  50.302  1.00116.01      A16S
ATOM  10099  O5*  G   A 491     130.070  88.504  52.376  1.00 68.69      A16S
ATOM  10100  C5*  G   A 491     129.505  88.180  53.664  1.00 68.69      A16S
ATOM  10101  C4*  G   A 491     130.340  87.137  54.367  1.00 68.69      A16S
ATOM  10102  O4*  G   A 491     130.158  85.842  53.742  1.00 68.69      A16S
ATOM  10103  C1*  G   A 491     131.378  85.119  53.779  1.00 68.69      A16S
ATOM  10104  N9   G   A 491     131.801  84.870  52.407  1.00116.01      A16S
ATOM  10105  C4   G   A 491     132.854  84.087  52.008  1.00116.01      A16S
ATOM  10106  N3   G   A 491     133.673  83.391  52.819  1.00116.01      A16S
ATOM  10107  C2   G   A 491     134.614  82.760  52.141  1.00116.01      A16S
ATOM  10108  N2   G   A 491     135.517  82.021  52.791  1.00116.01      A16S
ATOM  10109  N1   G   A 491     134.741  82.809  50.776  1.00116.01      A16S
ATOM  10110  C6   G   A 491     133.908  83.522  49.922  1.00116.01      A16S
ATOM  10111  O6   G   A 491     134.114  83.509  48.700  1.00116.01      A16S
ATOM  10112  C5   G   A 491     132.893  84.199  50.636  1.00116.01      A16S
ATOM  10113  N7   G   A 491     131.871  85.018  50.180  1.00116.01      A16S
ATOM  10114  C8   G   A 491     131.248  85.389  51.263  1.00116.01      A16S
ATOM  10115  C2*  G   A 491     132.408  85.976  54.516  1.00 68.69      A16S
ATOM  10116  O2*  G   A 491     132.503  85.573  55.866  1.00 68.69      A16S
ATOM  10117  C3*  G   A 491     131.836  87.374  54.325  1.00 68.69      A16S
ATOM  10118  O3*  G   A 491     132.268  88.294  55.305  1.00 68.69      A16S
ATOM  10119  P    G   A 492     133.595  89.154  55.036  1.00 64.39      A16S
ATOM  10120  O1P  G   A 492     133.661  90.230  56.056  1.00114.57      A16S
ATOM  10121  O2P  G   A 492     133.633  89.510  53.594  1.00114.57      A16S
ATOM  10122  O5*  G   A 492     134.781  88.130  55.330  1.00 64.39      A16S
ATOM  10123  C5*  G   A 492     134.894  87.472  56.611  1.00 64.39      A16S
ATOM  10124  C4*  G   A 492     135.894  86.345  56.535  1.00 64.39      A16S
ATOM  10125  O4*  G   A 492     135.443  85.369  55.563  1.00 64.39      A16S
ATOM  10126  C1*  G   A 492     136.558  84.851  54.854  1.00 64.39      A16S
ATOM  10127  N9   G   A 492     136.389  85.173  53.437  1.00114.57      A16S
ATOM  10128  C4   G   A 492     137.218  84.808  52.396  1.00114.57      A16S
ATOM  10129  N3   G   A 492     138.352  84.087  52.496  1.00114.57      A16S
ATOM  10130  C2   G   A 492     138.919  83.897  51.320  1.00114.57      A16S
ATOM  10131  N2   G   A 492     140.051  83.191  51.233  1.00114.57      A16S
ATOM  10132  N1   G   A 492     138.419  84.380  50.139  1.00114.57      A16S
ATOM  10133  C6   G   A 492     137.255  85.124  50.011  1.00114.57      A16S
ATOM  10134  O6   G   A 492     136.887  85.509  48.893  1.00114.57      A16S
ATOM  10135  C5   G   A 492     136.635  85.335  51.265  1.00114.57      A16S
ATOM  10136  N7   G   A 492     135.472  86.019  51.584  1.00114.57      A16S
ATOM  10137  C8   G   A 492     135.368  85.899  52.878  1.00114.57      A16S
ATOM  10138  C2*  G   A 492     137.823  85.462  55.463  1.00 64.39      A16S
ATOM  10139  O2*  G   A 492     138.368  84.592  56.438  1.00 64.39      A16S
ATOM  10140  C3*  G   A 492     137.284  86.747  56.073  1.00 64.39      A16S
ATOM  10141  O3*  G   A 492     138.085  87.161  57.165  1.00 64.39      A16S
ATOM  10142  P    G   A 494     139.199  88.297  56.953  1.00 73.11      A16S
ATOM  10143  O1P  G   A 494     139.953  88.378  58.235  1.00 91.02      A16S
ATOM  10144  O2P  G   A 494     138.533  89.514  56.414  1.00 91.02      A16S
ATOM  10145  O5*  G   A 494     140.167  87.697  55.837  1.00 73.11      A16S
ATOM  10146  C5*  G   A 494     140.988  86.541  56.109  1.00 73.11      A16S
ATOM  10147  C4*  G   A 494     141.725  86.105  54.859  1.00 73.11      A16S
ATOM  10148  O4*  G   A 494     140.773  85.632  53.873  1.00 73.11      A16S
ATOM  10149  C1*  G   A 494     141.204  85.999  52.573  1.00 73.11      A16S
ATOM  10150  N9   G   A 494     140.202  86.894  51.998  1.00 91.02      A16S
ATOM  10151  C4   G   A 494     139.951  87.104  50.666  1.00 91.02      A16S
ATOM  10152  N3   G   A 494     140.568  86.494  49.639  1.00 91.02      A16S
ATOM  10153  C2   G   A 494     140.122  86.927  48.472  1.00 91.02      A16S
ATOM  10154  N2   G   A 494     140.628  86.433  47.337  1.00 91.02      A16S
ATOM  10155  N1   G   A 494     139.148  87.878  48.329  1.00 91.02      A16S
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ATOM  10156  C6  G   A 494     138.501  88.519  49.374  1.00 91.02      A16S
ATOM  10157  O6  G   A 494     137.642  89.373  49.134  1.00 91.02      A16S
ATOM  10158  C5  G   A 494     138.965  88.065  50.627  1.00 91.02      A16S
ATOM  10159  N7  G   A 494     138.587  88.435  51.906  1.00 91.02      A16S
ATOM  10160  C8  G   A 494     139.341  87.713  52.685  1.00 91.02      A16S
ATOM  10161  C2* G   A 494     142.574  86.667  52.714  1.00 73.11      A16S
ATOM  10162  O2* G   A 494     143.592  85.703  52.532  1.00 73.11      A16S
ATOM  10163  C3* G   A 494     142.523  87.183  54.145  1.00 73.11      A16S
ATOM  10164  O3* G   A 494     143.825  87.325  54.700  1.00 73.11      A16S
ATOM  10165  P   U   A 495     144.604  88.727  54.565  1.00 73.69      A16S
ATOM  10166  O1P U   A 495     145.008  89.181  55.919  1.00 99.21      A16S
ATOM  10167  O2P U   A 495     143.799  89.634  53.700  1.00 99.21      A16S
ATOM  10168  O5* U   A 495     145.945  88.335  53.802  1.00 73.69      A16S
ATOM  10169  C5* U   A 495     146.858  87.378  54.366  1.00 73.69      A16S
ATOM  10170  C4* U   A 495     147.776  86.836  53.295  1.00 73.69      A16S
ATOM  10171  O4* U   A 495     147.010  86.063  52.339  1.00 73.69      A16S
ATOM  10172  C1* U   A 495     147.539  86.251  51.042  1.00 73.69      A16S
ATOM  10173  N1  U   A 495     146.482  86.809  50.182  1.00 99.21      A16S
ATOM  10174  C6  U   A 495     145.429  87.520  50.707  1.00 99.21      A16S
ATOM  10175  C2  U   A 495     146.573  86.585  48.822  1.00 99.21      A16S
ATOM  10176  O2  U   A 495     147.498  85.985  48.304  1.00 99.21      A16S
ATOM  10177  N3  U   A 495     145.537  87.090  48.085  1.00 99.21      A16S
ATOM  10178  C4  U   A 495     144.450  87.779  48.551  1.00 99.21      A16S
ATOM  10179  O4  U   A 495     143.531  88.017  47.784  1.00 99.21      A16S
ATOM  10180  C5  U   A 495     144.440  88.001  49.957  1.00 99.21      A16S
ATOM  10181  C2* U   A 495     148.777  87.141  51.162  1.00 73.69      A16S
ATOM  10182  O2* U   A 495     149.913  86.308  51.231  1.00 73.69      A16S
ATOM  10183  C3* U   A 495     148.504  87.881  52.466  1.00 73.69      A16S
ATOM  10184  O3* U   A 495     149.699  88.287  53.120  1.00 73.69      A16S
ATOM  10185  P   A   A 496     150.141  89.834  53.100  1.00 81.82      A16S
ATOM  10186  O1P A   A 496     151.261  89.946  54.074  1.00 68.73      A16S
ATOM  10187  O2P A   A 496     148.944  90.699  53.262  1.00 68.73      A16S
ATOM  10188  O5* A   A 496     150.723  90.052  51.629  1.00 81.82      A16S
ATOM  10189  C5* A   A 496     151.797  90.984  51.389  1.00 81.82      A16S
ATOM  10190  C4* A   A 496     152.220  90.954  49.937  1.00 81.82      A16S
ATOM  10191  O4* A   A 496     151.062  91.145  49.086  1.00 81.82      A16S
ATOM  10192  C1* A   A 496     151.290  92.246  48.240  1.00 81.82      A16S
ATOM  10193  N9  A   A 496     150.008  92.866  47.920  1.00 68.73      A16S
ATOM  10194  C4  A   A 496     149.440  92.843  46.673  1.00 68.73      A16S
ATOM  10195  N3  A   A 496     149.939  92.269  45.566  1.00 68.73      A16S
ATOM  10196  C2  A   A 496     149.120  92.446  44.538  1.00 68.73      A16S
ATOM  10197  N1  A   A 496     147.946  93.082  44.489  1.00 68.73      A16S
ATOM  10198  C6  A   A 496     147.473  93.650  45.617  1.00 68.73      A16S
ATOM  10199  N6  A   A 496     146.302  94.286  45.559  1.00 68.73      A16S
ATOM  10200  C5  A   A 496     148.252  93.532  46.785  1.00 68.73      A16S
ATOM  10201  N7  A   A 496     148.071  93.984  48.084  1.00 68.73      A16S
ATOM  10202  C8  A   A 496     149.138  93.559  48.717  1.00 68.73      A16S
ATOM  10203  C2* A   A 496     152.324  93.119  48.950  1.00 81.82      A16S
ATOM  10204  O2* A   A 496     153.009  93.979  48.055  1.00 81.82      A16S
ATOM  10205  C3* A   A 496     153.223  92.052  49.568  1.00 81.82      A16S
ATOM  10206  O3* A   A 496     154.140  91.659  48.534  1.00 81.82      A16S
ATOM  10207  P   A   A 497     154.723  90.159  48.473  1.00109.65      A16S
ATOM  10208  O1P A   A 497     154.536  89.506  49.789  1.00 72.22      A16S
ATOM  10209  O2P A   A 497     156.085  90.244  47.889  1.00 72.22      A16S
ATOM  10210  O5* A   A 497     153.767  89.424  47.427  1.00109.65      A16S
ATOM  10211  C5* A   A 497     153.916  88.015  47.158  1.00109.65      A16S
ATOM  10212  C4* A   A 497     153.110  87.601  45.941  1.00109.65      A16S
ATOM  10213  O4* A   A 497     151.687  87.631  46.229  1.00109.65      A16S
ATOM  10214  C1* A   A 497     151.019  88.339  45.209  1.00109.65      A16S
ATOM  10215  N9  A   A 497     149.834  88.978  45.779  1.00 72.22      A16S
ATOM  10216  C4  A   A 497     148.704  89.355  45.092  1.00 72.22      A16S
ATOM  10217  N3  A   A 497     148.476  89.258  43.771  1.00 72.22      A16S
ATOM  10218  C2  A   A 497     147.266  89.725  43.463  1.00 72.22      A16S
ATOM  10219  N1  A   A 497     146.325  90.224  44.265  1.00 72.22      A16S
ATOM  10220  C6  A   A 497     146.582  90.296  45.589  1.00 72.22      A16S
ATOM  10221  N6  A   A 497     145.637  90.771  46.395  1.00 72.22      A16S
ATOM  10222  C5  A   A 497     147.836  89.854  46.040  1.00 72.22      A16S
ATOM  10223  N7  A   A 497     148.412  89.818  47.300  1.00 72.22      A16S
ATOM  10224  C8  A   A 497     149.595  89.296  47.090  1.00 72.22      A16S
ATOM  10225  C2* A   A 497     152.063  89.272  44.599  1.00109.65      A16S
ATOM  10226  O2* A   A 497     151.695  89.614  43.279  1.00109.65      A16S
ATOM  10227  C3* A   A 497     153.314  88.396  44.655  1.00109.65      A16S
ATOM  10228  O3* A   A 497     153.267  87.488  43.550  1.00109.65      A16S
ATOM  10229  P   U   A 498     154.594  86.700  43.090  1.00 80.33      A16S
ATOM  10230  O1P U   A 498     154.172  85.292  42.866  1.00 69.70      A16S
ATOM  10231  O2P U   A 498     155.690  86.993  44.045  1.00 69.70      A16S
ATOM  10232  O5* U   A 498     154.981  87.350  41.683  1.00 80.33      A16S
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ATOM  10233  C5* U   A 498     154.119  87.201  40.534  1.00 80.33      A16S
ATOM  10234  C4* U   A 498     154.908  86.702  39.347  1.00 80.33      A16S
ATOM  10235  O4* U   A 498     154.008  86.060  38.415  1.00 80.33      A16S
ATOM  10236  C1* U   A 498     154.491  86.230  37.095  1.00 80.33      A16S
ATOM  10237  N1  U   A 498     153.445  86.876  36.283  1.00 69.70      A16S
ATOM  10238  C6  U   A 498     152.301  87.366  36.856  1.00 69.70      A16S
ATOM  10239  C2  U   A 498     153.644  86.971  34.912  1.00 69.70      A16S
ATOM  10240  O2  U   A 498     154.642  86.569  34.351  1.00 69.70      A16S
ATOM  10241  N3  U   A 498     152.626  87.567  34.219  1.00 69.70      A16S
ATOM  10242  C4  U   A 498     151.464  88.077  34.734  1.00 69.70      A16S
ATOM  10243  O4  U   A 498     150.673  88.643  33.986  1.00 69.70      A16S
ATOM  10244  C5  U   A 498     151.330  87.946  36.147  1.00 69.70      A16S
ATOM  10245  C2* U   A 498     155.798  87.020  37.173  1.00 80.33      A16S
ATOM  10246  O2* U   A 498     156.890  86.119  37.163  1.00 80.33      A16S
ATOM  10247  C3* U   A 498     155.667  87.725  38.514  1.00 80.33      A16S
ATOM  10248  O3* U   A 498     156.961  88.005  39.031  1.00 80.33      A16S
ATOM  10249  P   A   A 499     157.795  89.261  38.457  1.00 54.07      A16S
ATOM  10250  O1P A   A 499     159.156  89.213  39.064  1.00 46.34      A16S
ATOM  10251  O2P A   A 499     156.965  90.476  38.636  1.00 46.34      A16S
ATOM  10252  O5* A   A 499     157.927  88.995  36.884  1.00 54.07      A16S
ATOM  10253  C5* A   A 499     159.053  88.262  36.320  1.00 54.07      A16S
ATOM  10254  C4* A   A 499     159.412  88.807  34.946  1.00 54.07      A16S
ATOM  10255  O4* A   A 499     158.253  88.707  34.082  1.00 54.07      A16S
ATOM  10256  C1* A   A 499     157.979  89.968  33.527  1.00 54.07      A16S
ATOM  10257  N9  A   A 499     156.548  90.074  33.265  1.00 46.34      A16S
ATOM  10258  C4  A   A 499     155.986  90.338  32.038  1.00 46.34      A16S
ATOM  10259  N3  A   A 499     156.625  90.544  30.871  1.00 46.34      A16S
ATOM  10260  C2  A   A 499     155.756  90.753  29.896  1.00 46.34      A16S
ATOM  10261  N1  A   A 499     154.423  90.789  29.947  1.00 46.34      A16S
ATOM  10262  C6  A   A 499     153.814  90.593  31.135  1.00 46.34      A16S
ATOM  10263  N6  A   A 499     152.483  90.660  31.194  1.00 46.34      A16S
ATOM  10264  C5  A   A 499     154.623  90.341  32.244  1.00 46.34      A16S
ATOM  10265  N7  A   A 499     154.329  90.077  33.572  1.00 46.34      A16S
ATOM  10266  C8  A   A 499     155.503  89.931  34.134  1.00 46.34      A16S
ATOM  10267  C2* A   A 499     158.561  90.979  34.505  1.00 54.07      A16S
ATOM  10268  O2* A   A 499     158.779  92.218  33.867  1.00 54.07      A16S
ATOM  10269  C3* A   A 499     159.848  90.271  34.903  1.00 54.07      A16S
ATOM  10270  O3* A   A 499     160.740  90.505  33.810  1.00 54.07      A16S
ATOM  10271  P   G   A 500     162.224  89.889  33.804  1.00 46.79      A16S
ATOM  10272  O1P G   A 500     162.376  88.921  34.921  1.00 54.55      A16S
ATOM  10273  O2P G   A 500     163.199  90.998  33.660  1.00 54.55      A16S
ATOM  10274  O5* G   A 500     162.255  89.073  32.435  1.00 46.79      A16S
ATOM  10275  C5* G   A 500     161.526  87.826  32.287  1.00 46.79      A16S
ATOM  10276  C4* G   A 500     160.795  87.786  30.958  1.00 46.79      A16S
ATOM  10277  O4* G   A 500     159.667  88.696  30.979  1.00 46.79      A16S
ATOM  10278  C1* G   A 500     159.492  89.274  29.697  1.00 46.79      A16S
ATOM  10279  N9  G   A 500     159.690  90.718  29.817  1.00 54.55      A16S
ATOM  10280  C4  G   A 500     159.191  91.700  28.981  1.00 54.55      A16S
ATOM  10281  N3  G   A 500     158.451  91.504  27.863  1.00 54.55      A16S
ATOM  10282  C2  G   A 500     158.113  92.648  27.284  1.00 54.55      A16S
ATOM  10283  N2  G   A 500     157.399  92.646  26.153  1.00 54.55      A16S
ATOM  10284  N1  G   A 500     158.456  93.878  27.769  1.00 54.55      A16S
ATOM  10285  C6  G   A 500     159.206  94.104  28.915  1.00 54.55      A16S
ATOM  10286  O6  G   A 500     159.443  95.261  29.273  1.00 54.55      A16S
ATOM  10287  C5  G   A 500     159.599  92.890  29.536  1.00 54.55      A16S
ATOM  10288  N7  G   A 500     160.365  92.668  30.672  1.00 54.55      A16S
ATOM  10289  C8  G   A 500     160.395  91.371  30.797  1.00 54.55      A16S
ATOM  10290  C2* G   A 500     160.502  88.614  28.761  1.00 46.79      A16S
ATOM  10291  O2* G   A 500     159.891  87.488  28.172  1.00 46.79      A16S
ATOM  10292  C3* G   A 500     161.591  88.202  29.733  1.00 46.79      A16S
ATOM  10293  O3* G   A 500     162.366  87.145  29.217  1.00 46.79      A16S
ATOM  10294  P   C   A 501     163.681  87.483  28.367  1.00 40.55      A16S
ATOM  10295  O1P C   A 501     164.292  86.201  27.973  1.00 46.36      A16S
ATOM  10296  O2P C   A 501     164.505  88.489  29.070  1.00 46.36      A16S
ATOM  10297  O5* C   A 501     163.104  88.199  27.070  1.00 40.55      A16S
ATOM  10298  C5* C   A 501     162.611  87.434  25.960  1.00 40.55      A16S
ATOM  10299  C4* C   A 501     162.330  88.343  24.792  1.00 40.55      A16S
ATOM  10300  O4* C   A 501     161.297  89.292  25.158  1.00 40.55      A16S
ATOM  10301  C1* C   A 501     161.524  90.521  24.493  1.00 40.55      A16S
ATOM  10302  N1  C   A 501     161.622  91.602  25.486  1.00 46.36      A16S
ATOM  10303  C6  C   A 501     162.285  91.411  26.662  1.00 46.36      A16S
ATOM  10304  C2  C   A 501     161.036  92.851  25.196  1.00 46.36      A16S
ATOM  10305  O2  C   A 501     160.419  93.006  24.127  1.00 46.36      A16S
ATOM  10306  N3  C   A 501     161.160  93.855  26.082  1.00 46.36      A16S
ATOM  10307  C4  C   A 501     161.828  93.661  27.217  1.00 46.36      A16S
ATOM  10308  N4  C   A 501     161.948  94.697  28.052  1.00 46.36      A16S
ATOM  10309  C5  C   A 501     162.411  92.402  27.546  1.00 46.36      A16S
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ATOM  10310  C2* C   A 501     162.807  90.385  23.674  1.00 40.55      A16S
ATOM  10311  O2* C   A 501     162.509  90.111  22.325  1.00 40.55      A16S
ATOM  10312  C3* C   A 501     163.490  89.215  24.357  1.00 40.55      A16S
ATOM  10313  O3* C   A 501     164.378  88.577  23.467  1.00 40.55      A16S
ATOM  10314  P   G   A 502     165.728  89.329  23.065  1.00 34.94      A16S
ATOM  10315  O1P G   A 502     166.569  88.442  22.233  1.00 55.57      A16S
ATOM  10316  O2P G   A 502     166.297  89.909  24.303  1.00 55.57      A16S
ATOM  10317  O5* G   A 502     165.208  90.536  22.169  1.00 34.94      A16S
ATOM  10318  C5* G   A 502     164.763  90.302  20.831  1.00 34.94      A16S
ATOM  10319  C4* G   A 502     164.403  91.598  20.164  1.00 34.94      A16S
ATOM  10320  O4* G   A 502     163.314  92.232  20.875  1.00 34.94      A16S
ATOM  10321  C1* G   A 502     163.453  93.646  20.805  1.00 34.94      A16S
ATOM  10322  N9  G   A 502     163.576  94.180  22.161  1.00 55.57      A16S
ATOM  10323  C4  G   A 502     163.550  95.512  22.536  1.00 55.57      A16S
ATOM  10324  N3  G   A 502     163.389  96.572  21.715  1.00 55.57      A16S
ATOM  10325  C2  G   A 502     163.412  97.713  22.378  1.00 55.57      A16S
ATOM  10326  N2  G   A 502     163.255  98.865  21.727  1.00 55.57      A16S
ATOM  10327  N1  G   A 502     163.592  97.805  23.729  1.00 55.57      A16S
ATOM  10328  C6  G   A 502     163.778  96.730  24.585  1.00 55.57      A16S
ATOM  10329  O6  G   A 502     163.974  96.924  25.782  1.00 55.57      A16S
ATOM  10330  C5  G   A 502     163.729  95.507  23.900  1.00 55.57      A16S
ATOM  10331  N7  G   A 502     163.845  94.211  24.378  1.00 55.57      A16S
ATOM  10332  C8  G   A 502     163.752  93.460  23.316  1.00 55.57      A16S
ATOM  10333  C2* G   A 502     164.690  93.934  19.965  1.00 34.94      A16S
ATOM  10334  O2* G   A 502     164.250  94.135  18.638  1.00 34.94      A16S
ATOM  10335  C3* G   A 502     165.484  92.650  20.146  1.00 34.94      A16S
ATOM  10336  O3* G   A 502     166.406  92.431  19.115  1.00 34.94      A16S
ATOM  10337  P   C   A 503     167.895  92.989  19.284  1.00 37.20      A16S
ATOM  10338  O1P C   A 503     168.716  92.523  18.128  1.00 41.95      A16S
ATOM  10339  O2P C   A 503     168.322  92.653  20.673  1.00 41.95      A16S
ATOM  10340  O5* C   A 503     167.723  94.567  19.144  1.00 37.20      A16S
ATOM  10341  C5* C   A 503     167.318  95.138  17.890  1.00 37.20      A16S
ATOM  10342  C4* C   A 503     166.885  96.570  18.071  1.00 37.20      A16S
ATOM  10343  O4* C   A 503     165.882  96.633  19.116  1.00 37.20      A16S
ATOM  10344  C1* C   A 503     166.005  97.846  19.832  1.00 37.20      A16S
ATOM  10345  N1  C   A 503     166.369  97.522  21.216  1.00 41.95      A16S
ATOM  10346  C6  C   A 503     166.601  96.231  21.598  1.00 41.95      A16S
ATOM  10347  C2  C   A 503     166.489  98.556  22.132  1.00 41.95      A16S
ATOM  10348  O2  C   A 503     166.251  99.710  21.759  1.00 41.95      A16S
ATOM  10349  N3  C   A 503     166.853  98.274  23.402  1.00 41.95      A16S
ATOM  10350  C4  C   A 503     167.076  97.012  23.765  1.00 41.95      A16S
ATOM  10351  N4  C   A 503     167.417  96.775  25.031  1.00 41.95      A16S
ATOM  10352  C5  C   A 503     166.952  95.935  22.850  1.00 41.95      A16S
ATOM  10353  C2* C   A 503     167.103  98.660  19.153  1.00 37.20      A16S
ATOM  10354  O2* C   A 503     166.506  99.518  18.204  1.00 37.20      A16S
ATOM  10355  C3* C   A 503     167.941  97.566  18.510  1.00 37.20      A16S
ATOM  10356  O3* C   A 503     168.672  98.067  17.409  1.00 37.20      A16S
ATOM  10357  P   C   A 504     170.144  98.650  17.642  1.00 53.31      A16S
ATOM  10358  O1P C   A 504     170.681  99.008  16.304  1.00 42.89      A16S
ATOM  10359  O2P C   A 504     170.891  97.712  18.501  1.00 42.89      A16S
ATOM  10360  O5* C   A 504     169.898  99.975  18.486  1.00 53.31      A16S
ATOM  10361  C5* C   A 504     169.236 101.108  17.897  1.00 53.31      A16S
ATOM  10362  C4* C   A 504     169.479 102.344  18.726  1.00 53.31      A16S
ATOM  10363  O4* C   A 504     168.708 102.274  19.942  1.00 53.31      A16S
ATOM  10364  C1* C   A 504     169.454 102.819  21.007  1.00 53.31      A16S
ATOM  10365  N1  C   A 504     169.660 101.757  21.997  1.00 42.89      A16S
ATOM  10366  C6  C   A 504     169.833 100.462  21.606  1.00 42.89      A16S
ATOM  10367  C2  C   A 504     169.666 102.088  23.342  1.00 42.89      A16S
ATOM  10368  O2  C   A 504     169.523 103.270  23.670  1.00 42.89      A16S
ATOM  10369  N3  C   A 504     169.828 101.116  24.259  1.00 42.89      A16S
ATOM  10370  C4  C   A 504     169.985  99.855  23.871  1.00 42.89      A16S
ATOM  10371  N4  C   A 504     170.136  98.927  24.816  1.00 42.89      A16S
ATOM  10372  C5  C   A 504     169.995  99.489  22.501  1.00 42.89      A16S
ATOM  10373  C2* C   A 504     170.759 103.369  20.436  1.00 53.31      A16S
ATOM  10374  O2* C   A 504     170.586 104.736  20.129  1.00 53.31      A16S
ATOM  10375  C3* C   A 504     170.913 102.536  19.179  1.00 53.31      A16S
ATOM  10376  O3* C   A 504     171.667 103.208  18.189  1.00 53.31      A16S
ATOM  10377  P   G   A 505     173.136 102.681  17.830  1.00 45.57      A16S
ATOM  10378  O1P G   A 505     173.968 103.009  19.024  1.00 46.27      A16S
ATOM  10379  O2P G   A 505     173.037 101.265  17.360  1.00 46.27      A16S
ATOM  10380  O5* G   A 505     173.560 103.583  16.589  1.00 45.57      A16S
ATOM  10381  C5* G   A 505     174.090 104.888  16.792  1.00 45.57      A16S
ATOM  10382  C4* G   A 505     174.392 105.544  15.472  1.00 45.57      A16S
ATOM  10383  O4* G   A 505     175.267 104.691  14.690  1.00 45.57      A16S
ATOM  10384  C1* G   A 505     175.000 104.872  13.310  1.00 45.57      A16S
ATOM  10385  N9  G   A 505     174.638 103.578  12.729  1.00 46.27      A16S
ATOM  10386  C4  G   A 505     174.423 103.295  11.390  1.00 46.27      A16S
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ATOM  10387  N3  G   A 505     174.545 104.158  10.357  1.00 46.27      A16S
ATOM  10388  C2  G   A 505     174.243 103.592   9.201  1.00 46.27      A16S
ATOM  10389  N2  G   A 505     174.322 104.299   8.082  1.00 46.27      A16S
ATOM  10390  N1  G   A 505     173.845 102.292   9.061  1.00 46.27      A16S
ATOM  10391  C6  G   A 505     173.714 101.383  10.106  1.00 46.27      A16S
ATOM  10392  O6  G   A 505     173.351 100.225   9.876  1.00 46.27      A16S
ATOM  10393  C5  G   A 505     174.042 101.971  11.355  1.00 46.27      A16S
ATOM  10394  N7  G   A 505     174.043 101.422  12.632  1.00 46.27      A16S
ATOM  10395  C8  G   A 505     174.411 102.406  13.409  1.00 46.27      A16S
ATOM  10396  C2* G   A 505     173.882 105.919  13.194  1.00 45.57      A16S
ATOM  10397  O2* G   A 505     174.455 107.199  12.977  1.00 45.57      A16S
ATOM  10398  C3* G   A 505     173.213 105.824  14.560  1.00 45.57      A16S
ATOM  10399  O3* G   A 505     172.588 107.050  14.915  1.00 45.57      A16S
ATOM  10400  P   G   A 506     171.037 107.289  14.572  1.00 38.38      A16S
ATOM  10401  O1P G   A 506     170.673 108.599  15.164  1.00 52.36      A16S
ATOM  10402  O2P G   A 506     170.266 106.084  14.956  1.00 52.36      A16S
ATOM  10403  O5* G   A 506     170.998 107.432  12.989  1.00 38.38      A16S
ATOM  10404  C5* G   A 506     171.341 108.678  12.358  1.00 38.38      A16S
ATOM  10405  C4* G   A 506     171.032 108.620  10.883  1.00 38.38      A16S
ATOM  10406  O4* G   A 506     171.852 107.598  10.262  1.00 38.38      A16S
ATOM  10407  C1* G   A 506     171.111 106.929   9.260  1.00 38.38      A16S
ATOM  10408  N9  G   A 506     171.017 105.526   9.644  1.00 52.36      A16S
ATOM  10409  C4  G   A 506     170.654 104.483   8.841  1.00 52.36      A16S
ATOM  10410  N3  G   A 506     170.294 104.575   7.552  1.00 52.36      A16S
ATOM  10411  C2  G   A 506     170.018 103.398   7.036  1.00 52.36      A16S
ATOM  10412  N2  G   A 506     169.640 103.308   5.754  1.00 52.36      A16S
ATOM  10413  N1  G   A 506     170.090 102.223   7.736  1.00 52.36      A16S
ATOM  10414  C6  G   A 506     170.461 102.109   9.067  1.00 52.36      A16S
ATOM  10415  O6  G   A 506     170.502 100.996   9.607  1.00 52.36      A16S
ATOM  10416  C5  G   A 506     170.756 103.362   9.628  1.00 52.36      A16S
ATOM  10417  N7  G   A 506     171.157 103.695  10.911  1.00 52.36      A16S
ATOM  10418  C8  G   A 506     171.295 104.988  10.876  1.00 52.36      A16S
ATOM  10419  C2* G   A 506     169.760 107.627   9.141  1.00 38.38      A16S
ATOM  10420  O2* G   A 506     169.866 108.612   8.133  1.00 38.38      A16S
ATOM  10421  C3* G   A 506     169.609 108.233  10.530  1.00 38.38      A16S
ATOM  10422  O3* G   A 506     168.755 109.362  10.555  1.00 38.38      A16S
ATOM  10423  P   C   A 507     167.334 109.253  11.285  1.00 44.40      A16S
ATOM  10424  O1P C   A 507     166.779 110.627  11.316  1.00 42.17      A16S
ATOM  10425  O2P C   A 507     167.502 108.494  12.554  1.00 42.17      A16S
ATOM  10426  O5* C   A 507     166.466 108.398  10.268  1.00 44.40      A16S
ATOM  10427  C5* C   A 507     166.186 108.928   8.970  1.00 44.40      A16S
ATOM  10428  C4* C   A 507     165.744 107.843   8.035  1.00 44.40      A16S
ATOM  10429  O4* C   A 507     166.819 106.902   7.800  1.00 44.40      A16S
ATOM  10430  C1* C   A 507     166.276 105.619   7.555  1.00 44.40      A16S
ATOM  10431  N1  C   A 507     166.776 104.669   8.565  1.00 42.17      A16S
ATOM  10432  C6  C   A 507     167.149 105.087   9.807  1.00 42.17      A16S
ATOM  10433  C2  C   A 507     166.836 103.307   8.235  1.00 42.17      A16S
ATOM  10434  O2  C   A 507     166.522 102.951   7.093  1.00 42.17      A16S
ATOM  10435  N3  C   A 507     167.233 102.417   9.163  1.00 42.17      A16S
ATOM  10436  C4  C   A 507     167.572 102.833  10.374  1.00 42.17      A16S
ATOM  10437  N4  C   A 507     167.938 101.920  11.259  1.00 42.17      A16S
ATOM  10438  C5  C   A 507     167.547 104.208  10.734  1.00 42.17      A16S
ATOM  10439  C2* C   A 507     164.756 105.746   7.642  1.00 44.40      A16S
ATOM  10440  O2* C   A 507     164.249 105.916   6.328  1.00 44.40      A16S
ATOM  10441  C3* C   A 507     164.604 106.982   8.519  1.00 44.40      A16S
ATOM  10442  O3* C   A 507     163.369 107.639   8.347  1.00 44.40      A16S
ATOM  10443  P   C   A 508     162.226 107.487   9.466  1.00 53.02      A16S
ATOM  10444  O1P C   A 508     161.550 106.173   9.333  1.00 45.76      A16S
ATOM  10445  O2P C   A 508     161.430 108.731   9.395  1.00 45.76      A16S
ATOM  10446  O5* C   A 508     163.003 107.480  10.850  1.00 53.02      A16S
ATOM  10447  C5* C   A 508     162.331 107.871  12.056  1.00 53.02      A16S
ATOM  10448  C4* C   A 508     163.083 107.368  13.257  1.00 53.02      A16S
ATOM  10449  O4* C   A 508     162.956 105.928  13.324  1.00 53.02      A16S
ATOM  10450  C1* C   A 508     164.231 105.342  13.350  1.00 53.02      A16S
ATOM  10451  N1  C   A 508     164.179 104.097  12.569  1.00 45.76      A16S
ATOM  10452  C6  C   A 508     163.888 104.102  11.234  1.00 45.76      A16S
ATOM  10453  C2  C   A 508     164.440 102.900  13.218  1.00 45.76      A16S
ATOM  10454  O2  C   A 508     164.698 102.923  14.423  1.00 45.76      A16S
ATOM  10455  N3  C   A 508     164.409 101.745  12.527  1.00 45.76      A16S
ATOM  10456  C4  C   A 508     164.134 101.757  11.230  1.00 45.76      A16S
ATOM  10457  N4  C   A 508     164.125 100.589  10.593  1.00 45.76      A16S
ATOM  10458  C5  C   A 508     163.859 102.963  10.531  1.00 45.76      A16S
ATOM  10459  C2* C   A 508     165.212 106.380  12.811  1.00 53.02      A16S
ATOM  10460  O2* C   A 508     166.498 106.172  13.360  1.00 53.02      A16S
ATOM  10461  C3* C   A 508     164.572 107.692  13.263  1.00 53.02      A16S
ATOM  10462  O3* C   A 508     164.992 108.040  14.582  1.00 53.02      A16S
ATOM  10463  P   A   A 509     164.442 109.389  15.263  1.00 35.33      A16S
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ATOM  10464  O1P A   A 509     163.779 110.219  14.223  1.00 39.28      A16S
ATOM  10465  O2P A   A 509     165.538 109.974  16.076  1.00 39.28      A16S
ATOM  10466  O5* A   A 509     163.278 108.842  16.195  1.00 35.33      A16S
ATOM  10467  C5* A   A 509     162.618 109.701  17.116  1.00 35.33      A16S
ATOM  10468  C4* A   A 509     162.713 109.131  18.510  1.00 35.33      A16S
ATOM  10469  O4* A   A 509     161.731 108.071  18.702  1.00 35.33      A16S
ATOM  10470  C1* A   A 509     162.281 107.031  19.496  1.00 35.33      A16S
ATOM  10471  N9  A   A 509     162.555 105.886  18.617  1.00 39.28      A16S
ATOM  10472  C4  A   A 509     162.474 104.549  18.939  1.00 39.28      A16S
ATOM  10473  N3  A   A 509     162.071 104.007  20.102  1.00 39.28      A16S
ATOM  10474  C2  A   A 509     162.152 102.686  20.057  1.00 39.28      A16S
ATOM  10475  N1  A   A 509     162.571 101.901  19.064  1.00 39.28      A16S
ATOM  10476  C6  A   A 509     162.982 102.474  17.914  1.00 39.28      A16S
ATOM  10477  N6  A   A 509     163.430 101.690  16.938  1.00 39.28      A16S
ATOM  10478  C5  A   A 509     162.925 103.865  17.824  1.00 39.28      A16S
ATOM  10479  N7  A   A 509     163.249 104.744  16.804  1.00 39.28      A16S
ATOM  10480  C8  A   A 509     163.004 105.925  17.315  1.00 39.28      A16S
ATOM  10481  C2* A   A 509     163.605 107.567  20.031  1.00 35.33      A16S
ATOM  10482  O2* A   A 509     163.351 108.225  21.256  1.00 35.33      A16S
ATOM  10483  C3* A   A 509     164.025 108.469  18.875  1.00 35.33      A16S
ATOM  10484  O3* A   A 509     165.137 109.367  18.949  1.00 35.33      A16S
ATOM  10485  P   A   A 510     165.456 110.195  20.277  1.00 32.54      A16S
ATOM  10486  O1P A   A 510     164.167 110.541  20.927  1.00 54.65      A16S
ATOM  10487  O2P A   A 510     166.371 111.283  19.856  1.00 54.65      A16S
ATOM  10488  O5* A   A 510     166.286 109.199  21.190  1.00 32.54      A16S
ATOM  10489  C5* A   A 510     166.280 109.365  22.603  1.00 32.54      A16S
ATOM  10490  C4* A   A 510     166.634 108.072  23.255  1.00 32.54      A16S
ATOM  10491  O4* A   A 510     165.813 107.047  22.653  1.00 32.54      A16S
ATOM  10492  C1* A   A 510     166.562 105.861  22.515  1.00 32.54      A16S
ATOM  10493  N9  A   A 510     166.637 105.521  21.095  1.00 54.65      A16S
ATOM  10494  C4  A   A 510     166.302 104.306  20.557  1.00 54.65      A16S
ATOM  10495  N3  A   A 510     165.834 103.233  21.209  1.00 54.65      A16S
ATOM  10496  C2  A   A 510     165.628 102.230  20.370  1.00 54.65      A16S
ATOM  10497  N1  A   A 510     165.823 102.176  19.052  1.00 54.65      A16S
ATOM  10498  C6  A   A 510     166.296 103.268  18.425  1.00 54.65      A16S
ATOM  10499  N6  A   A 510     166.495 103.203  17.110  1.00 54.65      A16S
ATOM  10500  C5  A   A 510     166.553 104.409  19.205  1.00 54.65      A16S
ATOM  10501  N7  A   A 510     167.027 105.675  18.887  1.00 54.65      A16S
ATOM  10502  C8  A   A 510     167.053 106.296  20.040  1.00 54.65      A16S
ATOM  10503  C2* A   A 510     167.933 106.103  23.145  1.00 32.54      A16S
ATOM  10504  O2* A   A 510     167.877 105.696  24.504  1.00 32.54      A16S
ATOM  10505  C3* A   A 510     168.065 107.613  23.019  1.00 32.54      A16S
ATOM  10506  O3* A   A 510     168.947 108.134  24.011  1.00 32.54      A16S
ATOM  10507  P   C   A 511     169.565 109.609  23.842  1.00 57.44      A16S
ATOM  10508  O1P C   A 511     168.796 110.508  24.748  1.00 43.43      A16S
ATOM  10509  O2P C   A 511     169.693 109.952  22.400  1.00 43.43      A16S
ATOM  10510  O5* C   A 511     171.014 109.464  24.469  1.00 57.44      A16S
ATOM  10511  C5* C   A 511     172.187 109.643  23.679  1.00 57.44      A16S
ATOM  10512  C4* C   A 511     173.381 109.247  24.487  1.00 57.44      A16S
ATOM  10513  O4* C   A 511     173.205 107.881  24.945  1.00 57.44      A16S
ATOM  10514  C1* C   A 511     174.400 107.190  24.721  1.00 57.44      A16S
ATOM  10515  N1  C   A 511     174.152 105.757  24.731  1.00 43.43      A16S
ATOM  10516  C6  C   A 511     173.864 105.065  23.596  1.00 43.43      A16S
ATOM  10517  C2  C   A 511     174.229 105.105  25.953  1.00 43.43      A16S
ATOM  10518  O2  C   A 511     174.486 105.772  26.971  1.00 43.43      A16S
ATOM  10519  N3  C   A 511     174.025 103.774  26.008  1.00 43.43      A16S
ATOM  10520  C4  C   A 511     173.750 103.102  24.897  1.00 43.43      A16S
ATOM  10521  N4  C   A 511     173.557 101.789  25.000  1.00 43.43      A16S
ATOM  10522  C5  C   A 511     173.658 103.746  23.632  1.00 43.43      A16S
ATOM  10523  C2* C   A 511     175.002 107.824  23.482  1.00 57.44      A16S
ATOM  10524  O2* C   A 511     176.364 107.479  23.433  1.00 57.44      A16S
ATOM  10525  C3* C   A 511     174.738 109.294  23.791  1.00 57.44      A16S
ATOM  10526  O3* C   A 511     175.676 109.712  24.782  1.00 57.44      A16S
ATOM  10527  P   U   A 512     176.841 110.748  24.409  1.00 58.92      A16S
ATOM  10528  O1P U   A 512     176.320 112.115  24.685  1.00 64.89      A16S
ATOM  10529  O2P U   A 512     177.369 110.416  23.056  1.00 64.89      A16S
ATOM  10530  O5* U   A 512     177.966 110.432  25.490  1.00 58.92      A16S
ATOM  10531  C5* U   A 512     178.790 109.250  25.408  1.00 58.92      A16S
ATOM  10532  C4* U   A 512     178.954 108.654  26.785  1.00 58.92      A16S
ATOM  10533  O4* U   A 512     177.757 107.905  27.111  1.00 58.92      A16S
ATOM  10534  C1* U   A 512     178.099 106.769  27.883  1.00 58.92      A16S
ATOM  10535  N1  U   A 512     177.720 105.567  27.122  1.00 64.89      A16S
ATOM  10536  C6  U   A 512     177.548 105.612  25.757  1.00 64.89      A16S
ATOM  10537  C2  U   A 512     177.545 104.381  27.820  1.00 64.89      A16S
ATOM  10538  O2  U   A 512     177.680 104.295  29.029  1.00 64.89      A16S
ATOM  10539  N3  U   A 512     177.203 103.300  27.047  1.00 64.89      A16S
ATOM  10540  C4  U   A 512     177.018 103.283  25.684  1.00 64.89      A16S
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ATOM  10541  O4  U   A 512     176.679 102.243  25.136  1.00 64.89      A16S
ATOM  10542  C5  U   A 512     177.213 104.540  25.036  1.00 64.89      A16S
ATOM  10543  C2* U   A 512     179.601 106.839  28.162  1.00 58.92      A16S
ATOM  10544  O2* U   A 512     179.811 107.511  29.390  1.00 58.92      A16S
ATOM  10545  C3* U   A 512     180.089 107.661  26.978  1.00 58.92      A16S
ATOM  10546  O3* U   A 512     181.320 108.325  27.264  1.00 58.92      A16S
ATOM  10547  P   C   A 513     182.704 107.713  26.710  1.00 59.90      A16S
ATOM  10548  O1P C   A 513     183.743 108.759  26.926  1.00 88.20      A16S
ATOM  10549  O2P C   A 513     182.474 107.185  25.337  1.00 88.20      A16S
ATOM  10550  O5* C   A 513     182.988 106.466  27.670  1.00 59.90      A16S
ATOM  10551  C5* C   A 513     183.333 106.671  29.055  1.00 59.90      A16S
ATOM  10552  C4* C   A 513     183.542 105.353  29.761  1.00 59.90      A16S
ATOM  10553  O4* C   A 513     182.288 104.640  29.860  1.00 59.90      A16S
ATOM  10554  C1* C   A 513     182.523 103.246  29.772  1.00 59.90      A16S
ATOM  10555  N1  C   A 513     181.745 102.715  28.639  1.00 88.20      A16S
ATOM  10556  C6  C   A 513     181.353 103.530  27.611  1.00 88.20      A16S
ATOM  10557  C2  C   A 513     181.398 101.357  28.636  1.00 88.20      A16S
ATOM  10558  O2  C   A 513     181.789 100.632  29.564  1.00 88.20      A16S
ATOM  10559  N3  C   A 513     180.650 100.872  27.622  1.00 88.20      A16S
ATOM  10560  C4  C   A 513     180.257 101.682  26.637  1.00 88.20      A16S
ATOM  10561  N4  C   A 513     179.503 101.166  25.670  1.00 88.20      A16S
ATOM  10562  C5  C   A 513     180.615 103.060  26.602  1.00 88.20      A16S
ATOM  10563  C2* C   A 513     184.029 103.028  29.642  1.00 59.90      A16S
ATOM  10564  O2* C   A 513     184.552 102.751  30.919  1.00 59.90      A16S
ATOM  10565  C3* C   A 513     184.492 104.374  29.100  1.00 59.90      A16S
ATOM  10566  O3* C   A 513     185.829 104.647  29.460  1.00 59.90      A16S
ATOM  10567  P   C   A 514     187.017 104.128  28.515  1.00 62.40      A16S
ATOM  10568  O1P C   A 514     188.291 104.603  29.116  1.00 87.62      A16S
ATOM  10569  O2P C   A 514     186.679 104.499  27.119  1.00 87.62      A16S
ATOM  10570  O5* C   A 514     186.963 102.541  28.659  1.00 62.40      A16S
ATOM  10571  C5* C   A 514     187.211 101.930  29.933  1.00 62.40      A16S
ATOM  10572  C4* C   A 514     186.867 100.462  29.907  1.00 62.40      A16S
ATOM  10573  O4* C   A 514     185.437 100.262  29.765  1.00 62.40      A16S
ATOM  10574  C1* C   A 514     185.198  99.052  29.061  1.00 62.40      A16S
ATOM  10575  N1  C   A 514     184.445  99.354  27.826  1.00 87.62      A16S
ATOM  10576  C6  C   A 514     184.411 100.621  27.314  1.00 87.62      A16S
ATOM  10577  C2  C   A 514     183.779  98.313  27.167  1.00 87.62      A16S
ATOM  10578  O2  C   A 514     183.801  97.174  27.660  1.00 87.62      A16S
ATOM  10579  N3  C   A 514     183.130  98.575  26.011  1.00 87.62      A16S
ATOM  10580  C4  C   A 514     183.124  99.811  25.514  1.00 87.62      A16S
ATOM  10581  N4  C   A 514     182.492 100.019  24.363  1.00 87.62      A16S
ATOM  10582  C5  C   A 514     183.770 100.889  26.172  1.00 87.62      A16S
ATOM  10583  C2* C   A 514     186.560  98.430  28.744  1.00 62.40      A16S
ATOM  10584  O2* C   A 514     186.909  97.491  29.738  1.00 62.40      A16S
ATOM  10585  C3* C   A 514     187.474  99.643  28.788  1.00 62.40      A16S
ATOM  10586  O3* C   A 514     188.801  99.264  29.076  1.00 62.40      A16S
ATOM  10587  P   G   A 515     189.778  98.845  27.874  1.00 67.13      A16S
ATOM  10588  O1P G   A 515     191.088  98.535  28.487  1.00 73.63      A16S
ATOM  10589  O2P G   A 515     189.696  99.873  26.792  1.00 73.63      A16S
ATOM  10590  O5* G   A 515     189.153  97.478  27.341  1.00 67.13      A16S
ATOM  10591  C5* G   A 515     189.154  96.300  28.164  1.00 67.13      A16S
ATOM  10592  C4* G   A 515     188.517  95.145  27.434  1.00 67.13      A16S
ATOM  10593  O4* G   A 515     187.121  95.445  27.197  1.00 67.13      A16S
ATOM  10594  C1* G   A 515     186.706  94.856  25.979  1.00 67.13      A16S
ATOM  10595  N9  G   A 515     186.240  95.911  25.087  1.00 73.63      A16S
ATOM  10596  C4  G   A 515     185.565  95.731  23.905  1.00 73.63      A16S
ATOM  10597  N3  G   A 515     185.195  94.547  23.377  1.00 73.63      A16S
ATOM  10598  C2  G   A 515     184.589  94.695  22.214  1.00 73.63      A16S
ATOM  10599  N2  G   A 515     184.165  93.615  21.541  1.00 73.63      A16S
ATOM  10600  N1  G   A 515     184.359  95.910  21.622  1.00 73.63      A16S
ATOM  10601  C6  G   A 515     184.729  97.140  22.151  1.00 73.63      A16S
ATOM  10602  O6  G   A 515     184.480  98.176  21.533  1.00 73.63      A16S
ATOM  10603  C5  G   A 515     185.380  96.997  23.394  1.00 73.63      A16S
ATOM  10604  N7  G   A 515     185.907  97.956  24.247  1.00 73.63      A16S
ATOM  10605  C8  G   A 515     186.402  97.267  25.238  1.00 73.63      A16S
ATOM  10606  C2* G   A 515     187.900  94.102  25.396  1.00 67.13      A16S
ATOM  10607  O2* G   A 515     187.806  92.731  25.737  1.00 67.13      A16S
ATOM  10608  C3* G   A 515     189.074  94.811  26.061  1.00 67.13      A16S
ATOM  10609  O3* G   A 515     190.227  93.979  26.128  1.00 67.13      A16S
ATOM  10610  P   U   A 516     191.470  94.264  25.147  1.00 78.62      A16S
ATOM  10611  O1P U   A 516     192.520  93.270  25.453  1.00 69.54      A16S
ATOM  10612  O2P U   A 516     191.790  95.715  25.215  1.00 69.54      A16S
ATOM  10613  O5* U   A 516     190.918  93.963  23.681  1.00 78.62      A16S
ATOM  10614  C5* U   A 516     190.193  92.748  23.369  1.00 78.62      A16S
ATOM  10615  C4* U   A 516     189.427  92.913  22.068  1.00 78.62      A16S
ATOM  10616  O4* U   A 516     188.453  93.979  22.217  1.00 78.62      A16S
ATOM  10617  C1* U   A 516     188.274  94.636  20.975  1.00 78.62      A16S
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ATOM  10618  N1  U   A 516     188.206  96.100  21.174  1.00 69.54      A16S
ATOM  10619  C6  U   A 516     188.627  96.709  22.344  1.00 69.54      A16S
ATOM  10620  C2  U   A 516     187.663  96.862  20.150  1.00 69.54      A16S
ATOM  10621  O2  U   A 516     187.315  96.381  19.085  1.00 69.54      A16S
ATOM  10622  N3  U   A 516     187.541  98.211  20.417  1.00 69.54      A16S
ATOM  10623  C4  U   A 516     187.906  98.877  21.575  1.00 69.54      A16S
ATOM  10624  O4  U   A 516     187.658 100.092  21.695  1.00 69.54      A16S
ATOM  10625  C5  U   A 516     188.496  98.032  22.572  1.00 69.54      A16S
ATOM  10626  C2* U   A 516     189.270  94.059  19.964  1.00 78.62      A16S
ATOM  10627  O2* U   A 516     188.578  93.177  19.107  1.00 78.62      A16S
ATOM  10628  C3* U   A 516     190.265  93.319  20.862  1.00 78.62      A16S
ATOM  10629  O3* U   A 516     190.787  92.157  20.210  1.00 78.62      A16S
ATOM  10630  P   G   A 517     192.366  92.042  19.901  1.00 70.27      A16S
ATOM  10631  O1P G   A 517     192.643  90.596  19.707  1.00 71.18      A16S
ATOM  10632  O2P G   A 517     193.132  92.806  20.911  1.00 71.18      A16S
ATOM  10633  O5* G   A 517     192.569  92.781  18.508  1.00 70.27      A16S
ATOM  10634  C5* G   A 517     191.900  92.308  17.336  1.00 70.27      A16S
ATOM  10635  C4* G   A 517     191.692  93.437  16.370  1.00 70.27      A16S
ATOM  10636  O4* G   A 517     191.074  94.540  17.081  1.00 70.27      A16S
ATOM  10637  C1* G   A 517     191.856  95.703  16.929  1.00 70.27      A16S
ATOM  10638  N9  G   A 517     191.795  96.457  18.177  1.00 71.18      A16S
ATOM  10639  C4  G   A 517     191.194  97.676  18.345  1.00 71.18      A16S
ATOM  10640  N3  G   A 517     190.565  98.377  17.388  1.00 71.18      A16S
ATOM  10641  C2  G   A 517     190.055  99.498  17.853  1.00 71.18      A16S
ATOM  10642  N2  G   A 517     189.368 100.293  17.031  1.00 71.18      A16S
ATOM  10643  N1  G   A 517     190.171  99.914  19.154  1.00 71.18      A16S
ATOM  10644  C6  G   A 517     190.822  99.214  20.159  1.00 71.18      A16S
ATOM  10645  O6  G   A 517     190.871  99.684  21.303  1.00 71.18      A16S
ATOM  10646  C5  G   A 517     191.361  97.990  19.674  1.00 71.18      A16S
ATOM  10647  N7  G   A 517     192.061  96.989  20.331  1.00 71.18      A16S
ATOM  10648  C8  G   A 517     192.301  96.101  19.403  1.00 71.18      A16S
ATOM  10649  C2* G   A 517     193.255  95.246  16.521  1.00 70.27      A16S
ATOM  10650  O2* G   A 517     193.882  96.243  15.733  1.00 70.27      A16S
ATOM  10651  C3* G   A 517     192.948  93.990  15.713  1.00 70.27      A16S
ATOM  10652  O3* G   A 517     192.598  94.369  14.397  1.00 70.27      A16S
ATOM  10653  P   C   A 518     193.433  93.808  13.160  1.00 63.12      A16S
ATOM  10654  O1P C   A 518     194.379  92.808  13.706  1.00 76.52      A16S
ATOM  10655  O2P C   A 518     193.952  94.973  12.399  1.00 76.52      A16S
ATOM  10656  O5* C   A 518     192.352  93.032  12.271  1.00 63.12      A16S
ATOM  10657  C5* C   A 518     191.167  93.696  11.786  1.00 63.12      A16S
ATOM  10658  C4* C   A 518     190.750  93.145  10.436  1.00 63.12      A16S
ATOM  10659  O4* C   A 518     189.637  93.950   9.989  1.00 63.12      A16S
ATOM  10660  C1* C   A 518     189.708  94.145   8.593  1.00 63.12      A16S
ATOM  10661  N1  C   A 518     189.319  95.536   8.266  1.00 76.52      A16S
ATOM  10662  C6  C   A 518     188.983  96.416   9.256  1.00 76.52      A16S
ATOM  10663  C2  C   A 518     189.256  95.939   6.916  1.00 76.52      A16S
ATOM  10664  O2  C   A 518     189.610  95.150   6.025  1.00 76.52      A16S
ATOM  10665  N3  C   A 518     188.812  97.181   6.621  1.00 76.52      A16S
ATOM  10666  C4  C   A 518     188.451  98.011   7.598  1.00 76.52      A16S
ATOM  10667  N4  C   A 518     187.980  99.210   7.254  1.00 76.52      A16S
ATOM  10668  C5  C   A 518     188.546  97.647   8.969  1.00 76.52      A16S
ATOM  10669  C2* C   A 518     191.040  93.610   8.065  1.00 63.12      A16S
ATOM  10670  O2* C   A 518     190.827  92.535   7.185  1.00 63.12      A16S
ATOM  10671  C3* C   A 518     191.804  93.274   9.343  1.00 63.12      A16S
ATOM  10672  O3* C   A 518     192.676  92.115   9.257  1.00 63.12      A16S
ATOM  10673  P   C   A 519     192.074  90.609   9.044  1.00 43.97      A16S
ATOM  10674  O1P C   A 519     193.178  89.779   8.495  1.00 58.39      A16S
ATOM  10675  O2P C   A 519     190.776  90.617   8.342  1.00 58.39      A16S
ATOM  10676  O5* C   A 519     191.805  90.106  10.535  1.00 43.97      A16S
ATOM  10677  C5* C   A 519     190.592  89.424  10.885  1.00 43.97      A16S
ATOM  10678  C4* C   A 519     190.625  89.013  12.336  1.00 43.97      A16S
ATOM  10679  O4* C   A 519     190.764  90.175  13.184  1.00 43.97      A16S
ATOM  10680  C1* C   A 519     190.191  89.892  14.447  1.00 43.97      A16S
ATOM  10681  N1  C   A 519     189.435  91.062  14.946  1.00 58.39      A16S
ATOM  10682  C6  C   A 519     189.167  92.129  14.136  1.00 58.39      A16S
ATOM  10683  C2  C   A 519     188.997  91.066  16.290  1.00 58.39      A16S
ATOM  10684  O2  C   A 519     189.255  90.091  17.025  1.00 58.39      A16S
ATOM  10685  N3  C   A 519     188.314  92.127  16.752  1.00 58.39      A16S
ATOM  10686  C4  C   A 519     188.064  93.161  15.952  1.00 58.39      A16S
ATOM  10687  N4  C   A 519     187.383  94.189  16.463  1.00 58.39      A16S
ATOM  10688  C5  C   A 519     188.495  93.188  14.595  1.00 58.39      A16S
ATOM  10689  C2* C   A 519     189.412  88.579  14.350  1.00 43.97      A16S
ATOM  10690  O2* C   A 519     190.128  87.602  15.069  1.00 43.97      A16S
ATOM  10691  C3* C   A 519     189.366  88.331  12.844  1.00 43.97      A16S
ATOM  10692  O3* C   A 519     189.439  86.942  12.544  1.00 43.97      A16S
ATOM  10693  P   A   A 520     188.105  86.124  12.191  1.00 54.46      A16S
ATOM  10694  O1P A   A 520     188.523  84.702  12.016  1.00 41.71      A16S
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ATOM  10695  O2P A   A 520     187.366  86.819  11.098  1.00 41.71      A16S
ATOM  10696  O5* A   A 520     187.235  86.231  13.517  1.00 54.46      A16S
ATOM  10697  C5* A   A 520     187.659  85.576  14.721  1.00 54.46      A16S
ATOM  10698  C4* A   A 520     186.895  86.109  15.904  1.00 54.46      A16S
ATOM  10699  O4* A   A 520     187.253  87.490  16.151  1.00 54.46      A16S
ATOM  10700  C1* A   A 520     186.132  88.192  16.661  1.00 54.46      A16S
ATOM  10701  N9  A   A 520     185.899  89.379  15.833  1.00 41.71      A16S
ATOM  10702  C4  A   A 520     185.414  90.589  16.268  1.00 41.71      A16S
ATOM  10703  N3  A   A 520     185.041  90.915  17.514  1.00 41.71      A16S
ATOM  10704  C2  A   A 520     184.651  92.193  17.571  1.00 41.71      A16S
ATOM  10705  N1  A   A 520     184.593  93.112  16.596  1.00 41.71      A16S
ATOM  10706  C6  A   A 520     184.965  92.749  15.349  1.00 41.71      A16S
ATOM  10707  N6  A   A 520     184.902  93.663  14.374  1.00 41.71      A16S
ATOM  10708  C5  A   A 520     185.404  91.417  15.156  1.00 41.71      A16S
ATOM  10709  N7  A   A 520     185.855  90.736  14.035  1.00 41.71      A16S
ATOM  10710  C8  A   A 520     186.133  89.536  14.486  1.00 41.71      A16S
ATOM  10711  C2* A   A 520     184.967  87.208  16.735  1.00 54.46      A16S
ATOM  10712  O2* A   A 520     184.902  86.681  18.042  1.00 54.46      A16S
ATOM  10713  C3* A   A 520     185.394  86.141  15.739  1.00 54.46      A16S
ATOM  10714  O3* A   A 520     184.821  84.880  16.014  1.00 54.46      A16S
ATOM  10715  P   G   A 521     183.619  84.361  15.094  1.00 51.23      A16S
ATOM  10716  O1P G   A 521     183.203  83.027  15.580  1.00 45.40      A16S
ATOM  10717  O2P G   A 521     184.015  84.545  13.663  1.00 45.40      A16S
ATOM  10718  O5* G   A 521     182.443  85.377  15.417  1.00 51.23      A16S
ATOM  10719  C5* G   A 521     181.776  86.105  14.370  1.00 51.23      A16S
ATOM  10720  C4* G   A 521     181.258  87.407  14.911  1.00 51.23      A16S
ATOM  10721  O4* G   A 521     182.317  88.395  14.903  1.00 51.23      A16S
ATOM  10722  C1* G   A 521     181.774  89.682  14.683  1.00 51.23      A16S
ATOM  10723  N9  G   A 521     182.355  90.227  13.459  1.00 45.40      A16S
ATOM  10724  C4  G   A 521     182.205  91.503  12.985  1.00 45.40      A16S
ATOM  10725  N3  G   A 521     181.527  92.494  13.590  1.00 45.40      A16S
ATOM  10726  C2  G   A 521     181.520  93.603  12.863  1.00 45.40      A16S
ATOM  10727  N2  G   A 521     180.892  94.700  13.322  1.00 45.40      A16S
ATOM  10728  N1  G   A 521     182.128  93.722  11.637  1.00 45.40      A16S
ATOM  10729  C6  G   A 521     182.840  92.714  11.001  1.00 45.40      A16S
ATOM  10730  O6  G   A 521     183.357  92.927   9.899  1.00 45.40      A16S
ATOM  10731  C5  G   A 521     182.859  91.523  11.773  1.00 45.40      A16S
ATOM  10732  N7  G   A 521     183.444  90.298  11.511  1.00 45.40      A16S
ATOM  10733  C8  G   A 521     183.125  89.563  12.539  1.00 45.40      A16S
ATOM  10734  C2* G   A 521     180.258  89.512  14.579  1.00 51.23      A16S
ATOM  10735  O2* G   A 521     179.694  89.710  15.865  1.00 51.23      A16S
ATOM  10736  C3* G   A 521     180.140  88.060  14.133  1.00 51.23      A16S
ATOM  10737  O3* G   A 521     178.895  87.470  14.497  1.00 51.23      A16S
ATOM  10738  P   C   A 522     177.663  87.498  13.462  1.00 53.37      A16S
ATOM  10739  O1P C   A 522     176.528  86.749  14.096  1.00 49.34      A16S
ATOM  10740  O2P C   A 522     178.131  87.109  12.101  1.00 49.34      A16S
ATOM  10741  O5* C   A 522     177.306  89.049  13.379  1.00 53.37      A16S
ATOM  10742  C5* C   A 522     176.964  89.800  14.557  1.00 53.37      A16S
ATOM  10743  C4* C   A 522     176.525  91.192  14.177  1.00 53.37      A16S
ATOM  10744  O4* C   A 522     177.652  91.962  13.702  1.00 53.37      A16S
ATOM  10745  C1* C   A 522     177.202  92.918  12.768  1.00 53.37      A16S
ATOM  10746  N1  C   A 522     178.032  92.851  11.563  1.00 49.34      A16S
ATOM  10747  C6  C   A 522     178.455  91.658  11.053  1.00 49.34      A16S
ATOM  10748  C2  C   A 522     178.364  94.043  10.931  1.00 49.34      A16S
ATOM  10749  O2  C   A 522     178.004  95.122  11.454  1.00 49.34      A16S
ATOM  10750  N3  C   A 522     179.072  94.003   9.776  1.00 49.34      A16S
ATOM  10751  C4  C   A 522     179.452  92.834   9.270  1.00 49.34      A16S
ATOM  10752  N4  C   A 522     180.112  92.841   8.117  1.00 49.34      A16S
ATOM  10753  C5  C   A 522     179.163  91.607   9.920  1.00 49.34      A16S
ATOM  10754  C2* C   A 522     175.721  92.672  12.492  1.00 53.37      A16S
ATOM  10755  O2* C   A 522     174.964  93.640  13.172  1.00 53.37      A16S
ATOM  10756  C3* C   A 522     175.520  91.269  13.045  1.00 53.37      A16S
ATOM  10757  O3* C   A 522     174.202  91.078  13.527  1.00 53.37      A16S
ATOM  10758  P   A   A 523     173.095  90.455  12.554  1.00 35.16      A16S
ATOM  10759  O1P A   A 523     171.808  90.586  13.278  1.00 63.26      A16S
ATOM  10760  O2P A   A 523     173.535  89.112  12.076  1.00 63.26      A16S
ATOM  10761  O5* A   A 523     173.096  91.452  11.316  1.00 35.16      A16S
ATOM  10762  C5* A   A 523     172.629  92.801  11.464  1.00 35.16      A16S
ATOM  10763  C4* A   A 523     172.750  93.542  10.158  1.00 35.16      A16S
ATOM  10764  O4* A   A 523     174.145  93.783   9.858  1.00 35.16      A16S
ATOM  10765  C1* A   A 523     174.354  93.705   8.457  1.00 35.16      A16S
ATOM  10766  N9  A   A 523     175.305  92.625   8.192  1.00 63.26      A16S
ATOM  10767  C4  A   A 523     176.260  92.606   7.206  1.00 63.26      A16S
ATOM  10768  N3  A   A 523     176.545  93.582   6.328  1.00 63.26      A16S
ATOM  10769  C2  A   A 523     177.502  93.190   5.492  1.00 63.26      A16S
ATOM  10770  N1  A   A 523     178.156  92.024   5.439  1.00 63.26      A16S
ATOM  10771  C6  A   A 523     177.845  91.069   6.340  1.00 63.26      A16S
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ATOM  10772  N6  A   A 523     178.490  89.902   6.289  1.00 63.26      A16S
ATOM  10773  C5  A   A 523     176.851  91.361   7.282  1.00 63.26      A16S
ATOM  10774  N7  A   A 523     176.307  90.621   8.320  1.00 63.26      A16S
ATOM  10775  C8  A   A 523     175.406  91.417   8.833  1.00 63.26      A16S
ATOM  10776  C2* A   A 523     172.997  93.447   7.798  1.00 35.16      A16S
ATOM  10777  O2* A   A 523     172.473  94.687   7.372  1.00 35.16      A16S
ATOM  10778  C3* A   A 523     172.219  92.806   8.942  1.00 35.16      A16S
ATOM  10779  O3* A   A 523     170.823  92.966   8.845  1.00 35.16      A16S
ATOM  10780  P   G   A 524     169.940  91.849   8.106  1.00 54.00      A16S
ATOM  10781  O1P G   A 524     168.633  91.753   8.807  1.00 40.23      A16S
ATOM  10782  O2P G   A 524     170.746  90.623   7.915  1.00 40.23      A16S
ATOM  10783  O5* G   A 524     169.690  92.497   6.677  1.00 54.00      A16S
ATOM  10784  C5* G   A 524     168.680  91.982   5.807  1.00 54.00      A16S
ATOM  10785  C4* G   A 524     167.905  93.116   5.189  1.00 54.00      A16S
ATOM  10786  O4* G   A 524     167.065  93.747   6.177  1.00 54.00      A16S
ATOM  10787  C1* G   A 524     166.965  95.127   5.895  1.00 54.00      A16S
ATOM  10788  N9  G   A 524     167.329  95.879   7.093  1.00 40.23      A16S
ATOM  10789  C4  G   A 524     167.292  97.245   7.248  1.00 40.23      A16S
ATOM  10790  N3  G   A 524     166.960  98.136   6.302  1.00 40.23      A16S
ATOM  10791  C2  G   A 524     167.005  99.364   6.751  1.00 40.23      A16S
ATOM  10792  N2  G   A 524     166.715 100.369   5.934  1.00 40.23      A16S
ATOM  10793  N1  G   A 524     167.336  99.698   8.031  1.00 40.23      A16S
ATOM  10794  C6  G   A 524     167.671  98.792   9.029  1.00 40.23      A16S
ATOM  10795  O6  G   A 524     167.929  99.191  10.168  1.00 40.23      A16S
ATOM  10796  C5  G   A 524     167.647  97.475   8.556  1.00 40.23      A16S
ATOM  10797  N7  G   A 524     167.934  96.286   9.207  1.00 40.23      A16S
ATOM  10798  C8  G   A 524     167.738  95.368   8.301  1.00 40.23      A16S
ATOM  10799  C2* G   A 524     167.799  95.424   4.647  1.00 54.00      A16S
ATOM  10800  O2* G   A 524     166.946  95.478   3.519  1.00 54.00      A16S
ATOM  10801  C3* G   A 524     168.749  94.234   4.609  1.00 54.00      A16S
ATOM  10802  O3* G   A 524     169.104  93.901   3.277  1.00 54.00      A16S
ATOM  10803  P   C   A 525     170.640  93.925   2.823  1.00 36.49      A16S
ATOM  10804  O1P C   A 525     170.693  92.995   1.669  1.00 41.66      A16S
ATOM  10805  O2P C   A 525     171.539  93.701   3.986  1.00 41.66      A16S
ATOM  10806  O5* C   A 525     170.828  95.396   2.256  1.00 36.49      A16S
ATOM  10807  C5* C   A 525     170.172  95.773   1.039  1.00 36.49      A16S
ATOM  10808  C4* C   A 525     169.970  97.260   0.993  1.00 36.49      A16S
ATOM  10809  O4* C   A 525     169.128  97.658   2.099  1.00 36.49      A16S
ATOM  10810  C1* C   A 525     169.550  98.924   2.578  1.00 36.49      A16S
ATOM  10811  N1  C   A 525     169.934  98.799   3.995  1.00 41.66      A16S
ATOM  10812  C6  C   A 525     170.107  97.575   4.572  1.00 41.66      A16S
ATOM  10813  C2  C   A 525     170.089  99.960   4.751  1.00 41.66      A16S
ATOM  10814  O2  C   A 525     170.002 101.063   4.186  1.00 41.66      A16S
ATOM  10815  N3  C   A 525     170.340  99.856   6.070  1.00 41.66      A16S
ATOM  10816  C4  C   A 525     170.465  98.656   6.630  1.00 41.66      A16S
ATOM  10817  N4  C   A 525     170.677  98.598   7.943  1.00 41.66      A16S
ATOM  10818  C5  C   A 525     170.370  97.461   5.875  1.00 41.66      A16S
ATOM  10819  C2* C   A 525     170.704  99.400   1.702  1.00 36.49      A16S
ATOM  10820  O2* C   A 525     170.207 100.231   0.681  1.00 36.49      A16S
ATOM  10821  C3* C   A 525     171.233  98.086   1.162  1.00 36.49      A16S
ATOM  10822  O3* C   A 525     171.944  98.270  -0.047  1.00 36.49      A16S
ATOM  10823  P   C   A 526     173.541  98.355  -0.001  1.00 36.97      A16S
ATOM  10824  O1P C   A 526     174.011  98.388  -1.394  1.00 27.50      A16S
ATOM  10825  O2P C   A 526     174.042  97.304   0.921  1.00 27.50      A16S
ATOM  10826  O5* C   A 526     173.837  99.771   0.652  1.00 36.97      A16S
ATOM  10827  C5* C   A 526     173.519 100.988  -0.040  1.00 36.97      A16S
ATOM  10828  C4* C   A 526     173.800 102.170   0.850  1.00 36.97      A16S
ATOM  10829  O4* C   A 526     172.916 102.122   1.991  1.00 36.97      A16S
ATOM  10830  C1* C   A 526     173.575 102.640   3.126  1.00 36.97      A16S
ATOM  10831  N1  C   A 526     173.552 101.641   4.186  1.00 27.50      A16S
ATOM  10832  C6  C   A 526     173.494 100.316   3.894  1.00 27.50      A16S
ATOM  10833  C2  C   A 526     173.616 102.070   5.507  1.00 27.50      A16S
ATOM  10834  O2  C   A 526     173.605 103.280   5.746  1.00 27.50      A16S
ATOM  10835  N3  C   A 526     173.679 101.165   6.493  1.00 27.50      A16S
ATOM  10836  C4  C   A 526     173.659  99.868   6.199  1.00 27.50      A16S
ATOM  10837  N4  C   A 526     173.762  98.990   7.209  1.00 27.50      A16S
ATOM  10838  C5  C   A 526     173.543  99.403   4.858  1.00 27.50      A16S
ATOM  10839  C2* C   A 526     174.997 103.012   2.727  1.00 36.97      A16S
ATOM  10840  O2* C   A 526     175.071 104.403   2.495  1.00 36.97      A16S
ATOM  10841  C3* C   A 526     175.189 102.198   1.459  1.00 36.97      A16S
ATOM  10842  O3* C   A 526     176.129 102.824   0.602  1.00 36.97      A16S
ATOM  10843  P   G   A 527     177.613 102.230   0.490  1.00 44.29      A16S
ATOM  10844  O1P G   A 527     178.546 103.386   0.373  1.00 43.05      A16S
ATOM  10845  O2P G   A 527     177.571 101.197  -0.575  1.00 43.05      A16S
ATOM  10846  O5* G   A 527     177.855 101.487   1.877  1.00 44.29      A16S
ATOM  10847  C5* G   A 527     178.809 101.980   2.829  1.00 44.29      A16S
ATOM  10848  C4* G   A 527     178.177 102.039   4.190  1.00 44.29      A16S
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ATOM  10849  O4*  G   A 527     177.263 100.924   4.299  1.00 44.29      A16S
ATOM  10850  C1*  G   A 527     177.363 100.346   5.581  1.00 44.29      A16S
ATOM  10851  N9   G   A 527     178.019  99.050   5.422  1.00 43.05      A16S
ATOM  10852  C4   G   A 527     178.129  98.070   6.376  1.00 43.05      A16S
ATOM  10853  N3   G   A 527     177.631  98.126   7.626  1.00 43.05      A16S
ATOM  10854  C2   G   A 527     177.921  97.046   8.322  1.00 43.05      A16S
ATOM  10855  N2   G   A 527     177.511  96.949   9.591  1.00 43.05      A16S
ATOM  10856  N1   G   A 527     178.635  95.991   7.829  1.00 43.05      A16S
ATOM  10857  C6   G   A 527     179.159  95.911   6.546  1.00 43.05      A16S
ATOM  10858  O6   G   A 527     179.797  94.919   6.210  1.00 43.05      A16S
ATOM  10859  C5   G   A 527     178.860  97.061   5.786  1.00 43.05      A16S
ATOM  10860  N7   G   A 527     179.191  97.388   4.478  1.00 43.05      A16S
ATOM  10861  C8   G   A 527     178.669  98.573   4.302  1.00 43.05      A16S
ATOM  10862  C2*  G   A 527     178.210 101.299   6.423  1.00 44.29      A16S
ATOM  10863  O2*  G   A 527     177.409 102.337   6.954  1.00 44.29      A16S
ATOM  10864  C3*  G   A 527     179.125 101.887   5.371  1.00 44.29      A16S
ATOM  10865  O3*  G   A 527     179.694 103.111   5.824  1.00 44.29      A16S
ATOM  10866  P    C   A 528     181.185 103.114   6.444  1.00 50.61      A16S
ATOM  10867  O1P  C   A 528     181.398 104.486   6.986  1.00 37.13      A16S
ATOM  10868  O2P  C   A 528     182.120 102.571   5.425  1.00 37.13      A16S
ATOM  10869  O5*  C   A 528     181.148 102.080   7.661  1.00 50.61      A16S
ATOM  10870  C5*  C   A 528     180.497 102.449   8.874  1.00 50.61      A16S
ATOM  10871  C4*  C   A 528     180.764 101.465   9.993  1.00 50.61      A16S
ATOM  10872  O4*  C   A 528     180.055 100.218   9.804  1.00 50.61      A16S
ATOM  10873  C1*  C   A 528     180.618  99.246  10.661  1.00 50.61      A16S
ATOM  10874  N1   C   A 528     180.997  98.062   9.889  1.00 37.13      A16S
ATOM  10875  C6   C   A 528     181.491  98.177   8.620  1.00 37.13      A16S
ATOM  10876  C2   C   A 528     180.913  96.806  10.505  1.00 37.13      A16S
ATOM  10877  O2   C   A 528     180.360  96.713  11.609  1.00 37.13      A16S
ATOM  10878  N3   C   A 528     181.429  95.729   9.876  1.00 37.13      A16S
ATOM  10879  C4   C   A 528     181.982  95.867   8.666  1.00 37.13      A16S
ATOM  10880  N4   C   A 528     182.554  94.798   8.112  1.00 37.13      A16S
ATOM  10881  C5   C   A 528     181.992  97.115   7.978  1.00 37.13      A16S
ATOM  10882  C2*  C   A 528     181.885  99.849  11.276  1.00 50.61      A16S
ATOM  10883  O2*  C   A 528     181.632 100.280  12.602  1.00 50.61      A16S
ATOM  10884  C3*  C   A 528     182.172 101.020  10.342  1.00 50.61      A16S
ATOM  10885  O3*  C   A 528     182.923 101.995  11.056  1.00 50.61      A16S
ATOM  10886  P    G   A 529     184.533 101.916  11.053  1.00 44.22      A16S
ATOM  10887  O1P  G   A 529     184.987 102.913  12.045  1.00 63.51      A16S
ATOM  10888  O2P  G   A 529     185.000 102.019   9.646  1.00 63.51      A16S
ATOM  10889  O5*  G   A 529     184.887 100.461  11.618  1.00 44.22      A16S
ATOM  10890  C5*  G   A 529     184.778 100.188  13.025  1.00 44.22      A16S
ATOM  10891  C4*  G   A 529     185.441  98.874  13.404  1.00 44.22      A16S
ATOM  10892  O4*  G   A 529     184.670  97.745  12.924  1.00 44.22      A16S
ATOM  10893  C1*  G   A 529     185.525  96.629  12.756  1.00 44.22      A16S
ATOM  10894  N9   G   A 529     185.564  96.285  11.338  1.00 63.51      A16S
ATOM  10895  C4   G   A 529     185.811  95.046  10.796  1.00 63.51      A16S
ATOM  10896  N3   G   A 529     185.976  93.900  11.481  1.00 63.51      A16S
ATOM  10897  C2   G   A 529     186.231  92.882  10.679  1.00 63.51      A16S
ATOM  10898  N2   G   A 529     186.384  91.646  11.182  1.00 63.51      A16S
ATOM  10899  N1   G   A 529     186.345  92.992   9.322  1.00 63.51      A16S
ATOM  10900  C6   G   A 529     186.189  94.164   8.600  1.00 63.51      A16S
ATOM  10901  O6   G   A 529     186.337  94.157   7.376  1.00 63.51      A16S
ATOM  10902  C5   G   A 529     185.880  95.251   9.438  1.00 63.51      A16S
ATOM  10903  N7   G   A 529     185.626  96.577   9.124  1.00 63.51      A16S
ATOM  10904  C8   G   A 529     185.432  97.150  10.279  1.00 63.51      A16S
ATOM  10905  C2*  G   A 529     186.926  97.067  13.193  1.00 44.22      A16S
ATOM  10906  O2*  G   A 529     187.130  96.766  14.561  1.00 44.22      A16S
ATOM  10907  C3*  G   A 529     186.865  98.570  12.965  1.00 44.22      A16S
ATOM  10908  O3*  G   A 529     187.862  99.224  13.737  1.00 44.22      A16S
ATOM  10909  P    G   A 530     188.964 100.133  12.999  1.00 68.04      A16S
ATOM  10910  O1P  G   A 530     189.656 100.937  14.036  1.00 62.75      A16S
ATOM  10911  O2P  G   A 530     188.311 100.822  11.851  1.00 62.75      A16S
ATOM  10912  O5*  G   A 530     190.006  99.092  12.404  1.00 68.04      A16S
ATOM  10913  C5*  G   A 530     190.599  98.084  13.230  1.00 68.04      A16S
ATOM  10914  C4*  G   A 530     191.965  97.719  12.700  1.00 68.04      A16S
ATOM  10915  O4*  G   A 530     191.835  97.264  11.338  1.00 68.04      A16S
ATOM  10916  C1*  G   A 530     193.022  97.559  10.637  1.00 68.04      A16S
ATOM  10917  N9   G   A 530     192.689  98.027   9.296  1.00 62.75      A16S
ATOM  10918  C4   G   A 530     192.951  97.334   8.142  1.00 62.75      A16S
ATOM  10919  N3   G   A 530     193.597  96.148   8.065  1.00 62.75      A16S
ATOM  10920  C2   G   A 530     193.691  95.714   6.829  1.00 62.75      A16S
ATOM  10921  N2   G   A 530     194.326  94.565   6.586  1.00 62.75      A16S
ATOM  10922  N1   G   A 530     193.174  96.381   5.745  1.00 62.75      A16S
ATOM  10923  C6   G   A 530     192.497  97.600   5.799  1.00 62.75      A16S
ATOM  10924  O6   G   A 530     192.055  98.106   4.761  1.00 62.75      A16S
ATOM  10925  C5   G   A 530     192.410  98.090   7.129  1.00 62.75      A16S
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ATOM  10926  N7  G   A 530     191.848  99.257   7.630  1.00 62.75      A16S
ATOM  10927  C8  G   A 530     192.043  99.181   8.921  1.00 62.75      A16S
ATOM  10928  C2* G   A 530     193.930  98.424  11.509  1.00 68.04      A16S
ATOM  10929  O2* G   A 530     195.013  97.620  11.944  1.00 68.04      A16S
ATOM  10930  C3* G   A 530     192.983  98.851  12.635  1.00 68.04      A16S
ATOM  10931  O3* G   A 530     193.657  98.926  13.895  1.00 68.04      A16S
ATOM  10932  P   U   A 531     194.797 100.031  14.140  1.00 75.91      A16S
ATOM  10933  O1P U   A 531     194.712 101.076  13.083  1.00 83.14      A16S
ATOM  10934  O2P U   A 531     196.070  99.310  14.366  1.00 83.14      A16S
ATOM  10935  O5* U   A 531     194.375 100.687  15.520  1.00 75.91      A16S
ATOM  10936  C5* U   A 531     193.046 101.173  15.705  1.00 75.91      A16S
ATOM  10937  C4* U   A 531     192.894 101.752  17.082  1.00 75.91      A16S
ATOM  10938  O4* U   A 531     192.946 100.686  18.068  1.00 75.91      A16S
ATOM  10939  C1* U   A 531     193.928 100.987  19.032  1.00 75.91      A16S
ATOM  10940  N1  U   A 531     194.579  99.735  19.440  1.00 83.14      A16S
ATOM  10941  C6  U   A 531     195.118  98.873  18.511  1.00 83.14      A16S
ATOM  10942  C2  U   A 531     194.637  99.447  20.796  1.00 83.14      A16S
ATOM  10943  O2  U   A 531     194.171 100.175  21.656  1.00 83.14      A16S
ATOM  10944  N3  U   A 531     195.261  98.268  21.111  1.00 83.14      A16S
ATOM  10945  C4  U   A 531     195.823  97.362  20.231  1.00 83.14      A16S
ATOM  10946  O4  U   A 531     196.347  96.333  20.672  1.00 83.14      A16S
ATOM  10947  C5  U   A 531     195.722  97.730  18.850  1.00 83.14      A16S
ATOM  10948  C2* U   A 531     194.882 101.991  18.384  1.00 75.91      A16S
ATOM  10949  O2* U   A 531     195.480 102.802  19.376  1.00 75.91      A16S
ATOM  10950  C3* U   A 531     193.950 102.778  17.467  1.00 75.91      A16S
ATOM  10951  O3* U   A 531     193.333 103.819  18.193  1.00 75.91      A16S
ATOM  10952  P   A   A 532     193.317 105.309  17.603  1.00109.00      A16S
ATOM  10953  O1P A   A 532     192.620 105.256  16.295  1.00201.26      A16S
ATOM  10954  O2P A   A 532     194.688 105.874  17.684  1.00201.26      A16S
ATOM  10955  O5* A   A 532     192.386 106.068  18.648  1.00109.00      A16S
ATOM  10956  C5* A   A 532     192.443 105.710  20.047  1.00109.00      A16S
ATOM  10957  C4* A   A 532     191.087 105.843  20.711  1.00109.00      A16S
ATOM  10958  O4* A   A 532     190.825 107.215  21.075  1.00109.00      A16S
ATOM  10959  C1* A   A 532     189.438 107.362  21.279  1.00109.00      A16S
ATOM  10960  N9  A   A 532     189.011 108.675  20.794  1.00201.26      A16S
ATOM  10961  C4  A   A 532     187.840 109.306  21.144  1.00201.26      A16S
ATOM  10962  N3  A   A 532     186.884 108.849  21.972  1.00201.26      A16S
ATOM  10963  C2  A   A 532     185.891 109.729  22.074  1.00201.26      A16S
ATOM  10964  N1  A   A 532     185.754 110.924  21.486  1.00201.26      A16S
ATOM  10965  C6  A   A 532     186.732 111.353  20.658  1.00201.26      A16S
ATOM  10966  N6  A   A 532     186.590 112.542  20.067  1.00201.26      A16S
ATOM  10967  C5  A   A 532     187.845 110.512  20.468  1.00201.26      A16S
ATOM  10968  N7  A   A 532     189.000 110.644  19.707  1.00201.26      A16S
ATOM  10969  C8  A   A 532     189.655 109.531  19.933  1.00201.26      A16S
ATOM  10970  C2* A   A 532     188.716 106.140  20.685  1.00109.00      A16S
ATOM  10971  O2* A   A 532     188.128 105.386  21.727  1.00109.00      A16S
ATOM  10972  C3* A   A 532     189.841 105.389  19.960  1.00109.00      A16S
ATOM  10973  O3* A   A 532     189.710 103.968  20.100  1.00109.00      A16S
ATOM  10974  P   A   A 533     188.432 103.189  19.496  1.00 68.44      A16S
ATOM  10975  O1P A   A 533     187.732 102.519  20.657  1.00 42.25      A16S
ATOM  10976  O2P A   A 533     188.879 102.375  18.364  1.00 42.25      A16S
ATOM  10977  O5* A   A 533     187.517 104.317  18.848  1.00 68.44      A16S
ATOM  10978  C5* A   A 533     186.191 104.546  19.348  1.00 68.44      A16S
ATOM  10979  C4* A   A 533     185.149 104.268  18.285  1.00 68.44      A16S
ATOM  10980  O4* A   A 533     185.473 103.061  17.559  1.00 68.44      A16S
ATOM  10981  C1* A   A 533     184.298 102.330  17.292  1.00 68.44      A16S
ATOM  10982  N9  A   A 533     184.568 100.914  17.574  1.00 42.25      A16S
ATOM  10983  C4  A   A 533     184.111  99.793  16.898  1.00 42.25      A16S
ATOM  10984  N3  A   A 533     183.246  99.737  15.873  1.00 42.25      A16S
ATOM  10985  C2  A   A 533     183.077  98.480  15.463  1.00 42.25      A16S
ATOM  10986  N1  A   A 533     183.622  97.362  15.922  1.00 42.25      A16S
ATOM  10987  C6  A   A 533     184.477  97.443  16.951  1.00 42.25      A16S
ATOM  10988  N6  A   A 533     185.009  96.316  17.419  1.00 42.25      A16S
ATOM  10989  C5  A   A 533     184.752  98.714  17.477  1.00 42.25      A16S
ATOM  10990  N7  A   A 533     185.568  99.132  18.514  1.00 42.25      A16S
ATOM  10991  C8  A   A 533     185.409 100.437  18.542  1.00 42.25      A16S
ATOM  10992  C2* A   A 533     183.099 103.054  17.926  1.00 68.44      A16S
ATOM  10993  O2* A   A 533     182.347 103.641  16.887  1.00 68.44      A16S
ATOM  10994  C3* A   A 533     183.776 104.038  18.889  1.00 68.44      A16S
ATOM  10995  O3* A   A 533     183.208 105.334  19.258  1.00 68.44      A16S
ATOM  10996  P   U   A 534     181.970 106.007  18.452  1.00 68.36      A16S
ATOM  10997  O1P U   A 534     182.257 105.976  16.997  1.00 65.51      A16S
ATOM  10998  O2P U   A 534     181.700 107.311  19.101  1.00 65.51      A16S
ATOM  10999  O5* U   A 534     180.709 105.103  18.811  1.00 68.36      A16S
ATOM  11000  C5* U   A 534     180.496 104.680  20.170  1.00 68.36      A16S
ATOM  11001  C4* U   A 534     179.026 104.600  20.489  1.00 68.36      A16S
ATOM  11002  O4* U   A 534     178.430 105.914  20.531  1.00 68.36      A16S
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ATOM  11003  C1* U   A 534     177.048 105.795  20.266  1.00 68.36      A16S
ATOM  11004  N1  U   A 534     176.659 106.797  19.270  1.00 65.51      A16S
ATOM  11005  C6  U   A 534     177.589 107.490  18.546  1.00 65.51      A16S
ATOM  11006  C2  U   A 534     175.314 107.015  19.093  1.00 65.51      A16S
ATOM  11007  O2  U   A 534     174.458 106.403  19.706  1.00 65.51      A16S
ATOM  11008  N3  U   A 534     175.001 107.969  18.164  1.00 65.51      A16S
ATOM  11009  C4  U   A 534     175.881 108.702  17.403  1.00 65.51      A16S
ATOM  11010  O4  U   A 534     175.444 109.521  16.595  1.00 65.51      A16S
ATOM  11011  C5  U   A 534     177.258 108.410  17.641  1.00 65.51      A16S
ATOM  11012  C2* U   A 534     176.763 104.355  19.831  1.00 68.36      A16S
ATOM  11013  O2* U   A 534     176.173 103.636  20.897  1.00 68.36      A16S
ATOM  11014  C3* U   A 534     178.156 103.834  19.516  1.00 68.36      A16S
ATOM  11015  O3* U   A 534     178.216 102.464  19.813  1.00 68.36      A16S
ATOM  11016  P   A   A 535     178.999 101.483  18.834  1.00 52.98      A16S
ATOM  11017  O1P A   A 535     178.922 100.165  19.532  1.00 49.00      A16S
ATOM  11018  O2P A   A 535     180.315 102.068  18.500  1.00 49.00      A16S
ATOM  11019  O5* A   A 535     178.124 101.456  17.504  1.00 52.98      A16S
ATOM  11020  C5* A   A 535     176.839 100.805  17.496  1.00 52.98      A16S
ATOM  11021  C4* A   A 535     176.728  99.846  16.332  1.00 52.98      A16S
ATOM  11022  O4* A   A 535     176.495 100.559  15.095  1.00 52.98      A16S
ATOM  11023  C1* A   A 535     177.391 100.097  14.116  1.00 52.98      A16S
ATOM  11024  N9  A   A 535     177.689 101.196  13.210  1.00 49.00      A16S
ATOM  11025  C4  A   A 535     177.434 101.187  11.865  1.00 49.00      A16S
ATOM  11026  N3  A   A 535     176.916 100.180  11.148  1.00 49.00      A16S
ATOM  11027  C2  A   A 535     176.800 100.529   9.882  1.00 49.00      A16S
ATOM  11028  N1  A   A 535     177.108 101.685   9.295  1.00 49.00      A16S
ATOM  11029  C6  A   A 535     177.617 102.677  10.043  1.00 49.00      A16S
ATOM  11030  N6  A   A 535     177.904 103.834   9.450  1.00 49.00      A16S
ATOM  11031  C5  A   A 535     177.805 102.428  11.402  1.00 49.00      A16S
ATOM  11032  N7  A   A 535     178.310 103.200  12.430  1.00 49.00      A16S
ATOM  11033  C8  A   A 535     178.224 102.419  13.480  1.00 49.00      A16S
ATOM  11034  C2* A   A 535     178.585  99.520  14.863  1.00 52.98      A16S
ATOM  11035  O2* A   A 535     179.204  98.541  14.059  1.00 52.98      A16S
ATOM  11036  C3* A   A 535     177.904  98.912  16.083  1.00 52.98      A16S
ATOM  11037  O3* A   A 535     177.376  97.653  15.733  1.00 52.98      A16S
ATOM  11038  P   C   A 536     176.796  96.705  16.882  1.00 45.10      A16S
ATOM  11039  O1P C   A 536     175.510  96.149  16.375  1.00 71.75      A16S
ATOM  11040  O2P C   A 536     176.813  97.479  18.152  1.00 71.75      A16S
ATOM  11041  O5* C   A 536     177.853  95.517  17.001  1.00 45.10      A16S
ATOM  11042  C5* C   A 536     177.896  94.454  16.023  1.00 45.10      A16S
ATOM  11043  C4* C   A 536     179.109  93.592  16.251  1.00 45.10      A16S
ATOM  11044  O4* C   A 536     180.302  94.367  15.980  1.00 45.10      A16S
ATOM  11045  C1* C   A 536     181.281  94.104  16.968  1.00 45.10      A16S
ATOM  11046  N1  C   A 536     181.568  95.377  17.665  1.00 71.75      A16S
ATOM  11047  C6  C   A 536     181.026  96.544  17.207  1.00 71.75      A16S
ATOM  11048  C2  C   A 536     182.398  95.385  18.797  1.00 71.75      A16S
ATOM  11049  O2  C   A 536     182.878  94.319  19.207  1.00 71.75      A16S
ATOM  11050  N3  C   A 536     182.653  96.559  19.415  1.00 71.75      A16S
ATOM  11051  C4  C   A 536     182.115  97.688  18.952  1.00 71.75      A16S
ATOM  11052  N4  C   A 536     182.394  98.828  19.587  1.00 71.75      A16S
ATOM  11053  C5  C   A 536     181.269  97.705  17.815  1.00 71.75      A16S
ATOM  11054  C2* C   A 536     180.745  92.979  17.864  1.00 45.10      A16S
ATOM  11055  O2* C   A 536     181.239  91.732  17.415  1.00 45.10      A16S
ATOM  11056  C3* C   A 536     179.240  93.123  17.685  1.00 45.10      A16S
ATOM  11057  O3* C   A 536     178.549  91.900  17.854  1.00 45.10      A16S
ATOM  11058  P   G   A 537     177.237  91.855  18.767  1.00 57.24      A16S
ATOM  11059  O1P G   A 537     176.414  90.724  18.298  1.00 75.47      A16S
ATOM  11060  O2P G   A 537     176.649  93.212  18.821  1.00 75.47      A16S
ATOM  11061  O5* G   A 537     177.793  91.493  20.210  1.00 57.24      A16S
ATOM  11062  C5* G   A 537     178.422  90.223  20.458  1.00 57.24      A16S
ATOM  11063  C4* G   A 537     179.278  90.296  21.701  1.00 57.24      A16S
ATOM  11064  O4* G   A 537     180.443  91.116  21.439  1.00 57.24      A16S
ATOM  11065  C1* G   A 537     180.801  91.822  22.614  1.00 57.24      A16S
ATOM  11066  N9  G   A 537     180.793  93.253  22.333  1.00 75.47      A16S
ATOM  11067  C4  G   A 537     181.294  94.227  23.152  1.00 75.47      A16S
ATOM  11068  N3  G   A 537     181.888  94.024  24.347  1.00 75.47      A16S
ATOM  11069  C2  G   A 537     182.267  95.158  24.906  1.00 75.47      A16S
ATOM  11070  N2  G   A 537     182.881  95.140  26.095  1.00 75.47      A16S
ATOM  11071  N1  G   A 537     182.070  96.394  24.340  1.00 75.47      A16S
ATOM  11072  C6  G   A 537     181.454  96.625  23.114  1.00 75.47      A16S
ATOM  11073  O6  G   A 537     181.313  97.780  22.703  1.00 75.47      A16S
ATOM  11074  C5  G   A 537     181.055  95.416  22.497  1.00 75.47      A16S
ATOM  11075  N7  G   A 537     180.425  95.192  21.282  1.00 75.47      A16S
ATOM  11076  C8  G   A 537     180.290  93.896  21.226  1.00 75.47      A16S
ATOM  11077  C2* G   A 537     179.818  91.438  23.716  1.00 57.24      A16S
ATOM  11078  O2* G   A 537     180.388  90.420  24.513  1.00 57.24      A16S
ATOM  11079  C3* G   A 537     178.626  90.945  22.910  1.00 57.24      A16S
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ATOM  11080  O3* G   A 537     177.809  90.047  23.646  1.00 57.24      A16S
ATOM  11081  P   G   A 538     176.497  90.610  24.378  1.00 61.23      A16S
ATOM  11082  O1P G   A 538     175.572  89.475  24.652  1.00 62.38      A16S
ATOM  11083  O2P G   A 538     176.037  91.758  23.569  1.00 62.38      A16S
ATOM  11084  O5* G   A 538     177.045  91.180  25.759  1.00 61.23      A16S
ATOM  11085  C5* G   A 538     177.681  90.298  26.705  1.00 61.23      A16S
ATOM  11086  C4* G   A 538     178.302  91.077  27.838  1.00 61.23      A16S
ATOM  11087  O4* G   A 538     179.425  91.846  27.353  1.00 61.23      A16S
ATOM  11088  C1* G   A 538     179.519  93.058  28.078  1.00 61.23      A16S
ATOM  11089  N9  G   A 538     179.373  94.164  27.140  1.00 62.38      A16S
ATOM  11090  C4  G   A 538     179.740  95.463  27.352  1.00 62.38      A16S
ATOM  11091  N3  G   A 538     180.309  95.948  28.468  1.00 62.38      A16S
ATOM  11092  C2  G   A 538     180.542  97.243  28.375  1.00 62.38      A16S
ATOM  11093  N2  G   A 538     181.112  97.891  29.405  1.00 62.38      A16S
ATOM  11094  N1  G   A 538     180.235  98.002  27.267  1.00 62.38      A16S
ATOM  11095  C6  G   A 538     179.647  97.515  26.107  1.00 62.38      A16S
ATOM  11096  O6  G   A 538     179.407  98.276  25.169  1.00 62.38      A16S
ATOM  11097  C5  G   A 538     179.398  96.133  26.198  1.00 62.38      A16S
ATOM  11098  N7  G   A 538     178.832  95.269  25.277  1.00 62.38      A16S
ATOM  11099  C8  G   A 538     178.838  94.113  25.878  1.00 62.38      A16S
ATOM  11100  C2* G   A 538     178.427  93.044  29.145  1.00 61.23      A16S
ATOM  11101  O2* G   A 538     178.986  92.530  30.341  1.00 61.23      A16S
ATOM  11102  C3* G   A 538     177.413  92.089  28.534  1.00 61.23      A16S
ATOM  11103  O3* G   A 538     176.624  91.460  29.525  1.00 61.23      A16S
ATOM  11104  P   A   A 539     175.350  92.222  30.114  1.00 62.46      A16S
ATOM  11105  O1P A   A 539     174.706  91.302  31.087  1.00 75.25      A16S
ATOM  11106  O2P A   A 539     174.563  92.754  28.983  1.00 75.25      A16S
ATOM  11107  O5* A   A 539     175.977  93.478  30.869  1.00 62.46      A16S
ATOM  11108  C5* A   A 539     176.801  93.312  32.040  1.00 62.46      A16S
ATOM  11109  C4* A   A 539     177.338  94.649  32.496  1.00 62.46      A16S
ATOM  11110  O4* A   A 539     178.207  95.195  31.477  1.00 62.46      A16S
ATOM  11111  C1* A   A 539     178.037  96.599  31.405  1.00 62.46      A16S
ATOM  11112  N9  A   A 539     177.582  96.927  30.057  1.00 75.25      A16S
ATOM  11113  C4  A   A 539     177.619  98.165  29.465  1.00 75.25      A16S
ATOM  11114  N3  A   A 539     178.065  99.315  29.998  1.00 75.25      A16S
ATOM  11115  C2  A   A 539     177.966 100.309  29.119  1.00 75.25      A16S
ATOM  11116  N1  A   A 539     177.506 100.287  27.868  1.00 75.25      A16S
ATOM  11117  C6  A   A 539     177.063  99.115  27.368  1.00 75.25      A16S
ATOM  11118  N6  A   A 539     176.605  99.085  26.120  1.00 75.25      A16S
ATOM  11119  C5  A   A 539     177.115  97.987  28.196  1.00 75.25      A16S
ATOM  11120  N7  A   A 539     176.752  96.662  27.993  1.00 75.25      A16S
ATOM  11121  C8  A   A 539     177.045  96.078  29.125  1.00 75.25      A16S
ATOM  11122  C2* A   A 539     177.033  97.016  32.480  1.00 62.46      A16S
ATOM  11123  O2* A   A 539     177.714  97.487  33.622  1.00 62.46      A16S
ATOM  11124  C3* A   A 539     176.282  95.715  32.718  1.00 62.46      A16S
ATOM  11125  O3* A   A 539     175.757  95.642  34.025  1.00 62.46      A16S
ATOM  11126  P   G   A 540     174.247  96.099  34.288  1.00 50.52      A16S
ATOM  11127  O1P G   A 540     173.910  95.662  35.672  1.00 65.86      A16S
ATOM  11128  O2P G   A 540     173.413  95.627  33.149  1.00 65.86      A16S
ATOM  11129  O5* G   A 540     174.310  97.695  34.234  1.00 50.52      A16S
ATOM  11130  C5* G   A 540     174.709  98.451  35.389  1.00 50.52      A16S
ATOM  11131  C4* G   A 540     174.795  99.922  35.062  1.00 50.52      A16S
ATOM  11132  O4* G   A 540     175.724 100.118  33.968  1.00 50.52      A16S
ATOM  11133  C1* G   A 540     175.294 101.204  33.168  1.00 50.52      A16S
ATOM  11134  N9  G   A 540     175.031 100.708  31.819  1.00 65.86      A16S
ATOM  11135  C4  G   A 540     174.884 101.476  30.697  1.00 65.86      A16S
ATOM  11136  N3  G   A 540     174.972 102.819  30.646  1.00 65.86      A16S
ATOM  11137  C2  G   A 540     174.763 103.277  29.434  1.00 65.86      A16S
ATOM  11138  N2  G   A 540     174.801 104.590  29.215  1.00 65.86      A16S
ATOM  11139  N1  G   A 540     174.497 102.480  28.350  1.00 65.86      A16S
ATOM  11140  C6  G   A 540     174.399 101.093  28.381  1.00 65.86      A16S
ATOM  11141  O6  G   A 540     174.142 100.465  27.348  1.00 65.86      A16S
ATOM  11142  C5  G   A 540     174.616 100.590  29.678  1.00 65.86      A16S
ATOM  11143  N7  G   A 540     174.607  99.285  30.147  1.00 65.86      A16S
ATOM  11144  C8  G   A 540     174.862  99.402  31.420  1.00 65.86      A16S
ATOM  11145  C2* G   A 540     174.034 101.787  33.812  1.00 50.52      A16S
ATOM  11146  O2* G   A 540     174.380 102.875  34.640  1.00 50.52      A16S
ATOM  11147  C3* G   A 540     173.516 100.598  34.603  1.00 50.52      A16S
ATOM  11148  O3* G   A 540     172.734 101.022  35.696  1.00 50.52      A16S
ATOM  11149  P   G   A 541     171.143 101.102  35.543  1.00 52.94      A16S
ATOM  11150  O1P G   A 541     170.590 101.597  36.829  1.00 72.41      A16S
ATOM  11151  O2P G   A 541     170.677  99.807  34.994  1.00 72.41      A16S
ATOM  11152  O5* G   A 541     170.918 102.228  34.446  1.00 52.94      A16S
ATOM  11153  C5* G   A 541     171.233 103.591  34.739  1.00 52.94      A16S
ATOM  11154  C4* G   A 541     171.241 104.414  33.476  1.00 52.94      A16S
ATOM  11155  O4* G   A 541     172.254 103.899  32.573  1.00 52.94      A16S
ATOM  11156  C1* G   A 541     171.821 104.060  31.231  1.00 52.94      A16S
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ATOM  11157  N9  G   A 541     171.678 102.742  30.617  1.00 72.41      A16S
ATOM  11158  C4  G   A 541     171.380 102.511  29.301  1.00 72.41      A16S
ATOM  11159  N3  G   A 541     171.204 103.459  28.359  1.00 72.41      A16S
ATOM  11160  C2  G   A 541     170.919 102.938  27.189  1.00 72.41      A16S
ATOM  11161  N2  G   A 541     170.724 103.747  26.141  1.00 72.41      A16S
ATOM  11162  N1  G   A 541     170.808 101.589  26.961  1.00 72.41      A16S
ATOM  11163  C6  G   A 541     170.983 100.595  27.920  1.00 72.41      A16S
ATOM  11164  O6  G   A 541     170.859  99.408  27.611  1.00 72.41      A16S
ATOM  11165  C5  G   A 541     171.296 101.141  29.178  1.00 72.41      A16S
ATOM  11166  N7  G   A 541     171.553 100.518  30.390  1.00 72.41      A16S
ATOM  11167  C8  G   A 541     171.777 101.505  31.216  1.00 72.41      A16S
ATOM  11168  C2* G   A 541     170.465 104.765  31.263  1.00 52.94      A16S
ATOM  11169  O2* G   A 541     170.622 106.160  31.093  1.00 52.94      A16S
ATOM  11170  C3* G   A 541     169.968 104.386  32.647  1.00 52.94      A16S
ATOM  11171  O3* G   A 541     168.959 105.261  33.105  1.00 52.94      A16S
ATOM  11172  P   G   A 542     167.427 104.878  32.838  1.00 57.65      A16S
ATOM  11173  O1P G   A 542     166.583 105.881  33.517  1.00 45.50      A16S
ATOM  11174  O2P G   A 542     167.251 103.431  33.147  1.00 45.50      A16S
ATOM  11175  O5* G   A 542     167.249 105.099  31.270  1.00 57.65      A16S
ATOM  11176  C5* G   A 542     167.403 106.412  30.698  1.00 57.65      A16S
ATOM  11177  C4* G   A 542     167.149 106.377  29.214  1.00 57.65      A16S
ATOM  11178  O4* G   A 542     168.112 105.492  28.593  1.00 57.65      A16S
ATOM  11179  C1* G   A 542     167.520 104.853  27.480  1.00 57.65      A16S
ATOM  11180  N9  G   A 542     167.562 103.406  27.683  1.00 45.50      A16S
ATOM  11181  C4  G   A 542     167.300 102.442  26.731  1.00 45.50      A16S
ATOM  11182  N3  G   A 542     166.965 102.666  25.442  1.00 45.50      A16S
ATOM  11183  C2  G   A 542     166.789 101.541  24.778  1.00 45.50      A16S
ATOM  11184  N2  G   A 542     166.481 101.580  23.483  1.00 45.50      A16S
ATOM  11185  N1  G   A 542     166.912 100.298  25.335  1.00 45.50      A16S
ATOM  11186  C6  G   A 542     167.246 100.044  26.655  1.00 45.50      A16S
ATOM  11187  O6  G   A 542     167.319  98.885  27.054  1.00 45.50      A16S
ATOM  11188  C5  G   A 542     167.457 101.237  27.378  1.00 45.50      A16S
ATOM  11189  N7  G   A 542     167.816 101.433  28.703  1.00 45.50      A16S
ATOM  11190  C8  G   A 542     167.864 102.731  28.840  1.00 45.50      A16S
ATOM  11191  C2* G   A 542     166.099 105.391  27.339  1.00 57.65      A16S
ATOM  11192  O2* G   A 542     166.145 106.464  26.423  1.00 57.65      A16S
ATOM  11193  C3* G   A 542     165.796 105.858  28.755  1.00 57.65      A16S
ATOM  11194  O3* G   A 542     164.816 106.891  28.759  1.00 57.65      A16S
ATOM  11195  P   C   A 543     163.258 106.514  28.646  1.00 42.87      A16S
ATOM  11196  O1P C   A 543     162.471 107.764  28.709  1.00 43.08      A16S
ATOM  11197  O2P C   A 543     162.948 105.398  29.576  1.00 43.08      A16S
ATOM  11198  O5* C   A 543     163.096 105.956  27.171  1.00 42.87      A16S
ATOM  11199  C5* C   A 543     163.210 106.839  26.053  1.00 42.87      A16S
ATOM  11200  C4* C   A 543     162.953 106.100  24.763  1.00 42.87      A16S
ATOM  11201  O4* C   A 543     164.013 105.145  24.497  1.00 42.87      A16S
ATOM  11202  C1* C   A 543     163.481 104.037  23.783  1.00 42.87      A16S
ATOM  11203  N1  C   A 543     163.651 102.814  24.586  1.00 43.08      A16S
ATOM  11204  C6  C   A 543     163.891 102.880  25.927  1.00 43.08      A16S
ATOM  11205  C2  C   A 543     163.550 101.578  23.953  1.00 43.08      A16S
ATOM  11206  O2  C   A 543     163.319 101.544  22.736  1.00 43.08      A16S
ATOM  11207  N3  C   A 543     163.702 100.453  24.678  1.00 43.08      A16S
ATOM  11208  C4  C   A 543     163.940 100.530  25.984  1.00 43.08      A16S
ATOM  11209  N4  C   A 543     164.095  99.401  26.658  1.00 43.08      A16S
ATOM  11210  C5  C   A 543     164.037 101.771  26.655  1.00 43.08      A16S
ATOM  11211  C2* C   A 543     162.002 104.318  23.548  1.00 42.87      A16S
ATOM  11212  O2* C   A 543     161.868 104.977  22.308  1.00 42.87      A16S
ATOM  11213  C3* C   A 543     161.692 105.262  24.694  1.00 42.87      A16S
ATOM  11214  O3* C   A 543     160.544 106.020  24.420  1.00 42.87      A16S
ATOM  11215  P   G   A 544     159.128 105.479  24.921  1.00 44.34      A16S
ATOM  11216  O1P G   A 544     158.145 106.533  24.574  1.00 47.92      A16S
ATOM  11217  O2P G   A 544     159.262 105.034  26.326  1.00 47.92      A16S
ATOM  11218  O5* G   A 544     158.881 104.175  24.039  1.00 44.34      A16S
ATOM  11219  C5* G   A 544     158.871 104.257  22.606  1.00 44.34      A16S
ATOM  11220  C4* G   A 544     158.739 102.888  21.985  1.00 44.34      A16S
ATOM  11221  O4* G   A 544     159.890 102.076  22.323  1.00 44.34      A16S
ATOM  11222  C1* G   A 544     159.505 100.712  22.349  1.00 44.34      A16S
ATOM  11223  N9  G   A 544     159.949 100.110  23.603  1.00 47.92      A16S
ATOM  11224  C4  G   A 544     160.129  98.767  23.843  1.00 47.92      A16S
ATOM  11225  N3  G   A 544     159.953  97.773  22.954  1.00 47.92      A16S
ATOM  11226  C2  G   A 544     160.200  96.589  23.483  1.00 47.92      A16S
ATOM  11227  N2  G   A 544     160.091  95.480  22.736  1.00 47.92      A16S
ATOM  11228  N1  G   A 544     160.576  96.394  24.779  1.00 47.92      A16S
ATOM  11229  C6  G   A 544     160.754  97.397  25.716  1.00 47.92      A16S
ATOM  11230  O6  G   A 544     161.074  97.104  26.875  1.00 47.92      A16S
ATOM  11231  C5  G   A 544     160.512  98.679  25.158  1.00 47.92      A16S
ATOM  11232  N7  G   A 544     160.594  99.940  25.733  1.00 47.92      A16S
ATOM  11233  C8  G   A 544     160.253 100.756  24.773  1.00 47.92      A16S
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ATOM  11234  C2* G   A 544     157.988 100.637  22.137  1.00 44.34      A16S
ATOM  11235  O2* G   A 544     157.681 100.257  20.813  1.00 44.34      A16S
ATOM  11236  C3* G   A 544     157.548 102.064  22.432  1.00 44.34      A16S
ATOM  11237  O3* G   A 544     156.377 102.387  21.703  1.00 44.34      A16S
ATOM  11238  P   C   A 545     154.955 102.328  22.441  1.00 38.56      A16S
ATOM  11239  O1P C   A 545     153.928 102.727  21.440  1.00 58.55      A16S
ATOM  11240  O2P C   A 545     155.094 103.097  23.704  1.00 58.55      A16S
ATOM  11241  O5* C   A 545     154.750 100.789  22.819  1.00 38.56      A16S
ATOM  11242  C5* C   A 545     154.295  99.849  21.829  1.00 38.56      A16S
ATOM  11243  C4* C   A 545     154.471  98.410  22.289  1.00 38.56      A16S
ATOM  11244  O4* C   A 545     155.864  98.125  22.587  1.00 38.56      A16S
ATOM  11245  C1* C   A 545     155.936  97.050  23.510  1.00 38.56      A16S
ATOM  11246  N1  C   A 545     156.658  97.467  24.718  1.00 58.55      A16S
ATOM  11247  C6  C   A 545     156.784  98.781  25.048  1.00 58.55      A16S
ATOM  11248  C2  C   A 545     157.193  96.484  25.541  1.00 58.55      A16S
ATOM  11249  O2  C   A 545     157.087  95.303  25.212  1.00 58.55      A16S
ATOM  11250  N3  C   A 545     157.810  96.835  26.675  1.00 58.55      A16S
ATOM  11251  C4  C   A 545     157.917  98.116  27.001  1.00 58.55      A16S
ATOM  11252  N4  C   A 545     158.539  98.420  28.145  1.00 58.55      A16S
ATOM  11253  C5  C   A 545     157.396  99.148  26.172  1.00 58.55      A16S
ATOM  11254  C2* C   A 545     154.511  96.648  23.864  1.00 38.56      A16S
ATOM  11255  O2* C   A 545     154.164  95.550  23.051  1.00 38.56      A16S
ATOM  11256  C3* C   A 545     153.726  97.908  23.517  1.00 38.56      A16S
ATOM  11257  O3* C   A 545     152.365  97.577  23.239  1.00 38.56      A16S
ATOM  11258  P   G   A 546     151.320  97.386  24.455  1.00 36.45      A16S
ATOM  11259  O1P G   A 546     150.014  96.979  23.872  1.00 64.85      A16S
ATOM  11260  O2P G   A 546     151.392  98.589  25.327  1.00 64.85      A16S
ATOM  11261  O5* G   A 546     151.898  96.148  25.274  1.00 36.45      A16S
ATOM  11262  C5* G   A 546     151.951  94.834  24.696  1.00 36.45      A16S
ATOM  11263  C4* G   A 546     152.557  93.853  25.676  1.00 36.45      A16S
ATOM  11264  O4* G   A 546     153.927  94.219  25.981  1.00 36.45      A16S
ATOM  11265  C1* G   A 546     154.229  93.883  27.322  1.00 36.45      A16S
ATOM  11266  N9  G   A 546     154.673  95.094  28.007  1.00 64.85      A16S
ATOM  11267  C4  G   A 546     155.390  95.157  29.170  1.00 64.85      A16S
ATOM  11268  N3  G   A 546     155.823  94.105  29.886  1.00 64.85      A16S
ATOM  11269  C2  G   A 546     156.474  94.481  30.973  1.00 64.85      A16S
ATOM  11270  N2  G   A 546     156.963  93.557  31.808  1.00 64.85      A16S
ATOM  11271  N1  G   A 546     156.689  95.790  31.327  1.00 64.85      A16S
ATOM  11272  C6  G   A 546     156.251  96.894  30.604  1.00 64.85      A16S
ATOM  11273  O6  G   A 546     156.493  98.042  31.017  1.00 64.85      A16S
ATOM  11274  C5  G   A 546     155.548  96.501  29.433  1.00 64.85      A16S
ATOM  11275  N7  G   A 546     154.953  97.269  28.446  1.00 64.85      A16S
ATOM  11276  C8  G   A 546     154.450  96.394  27.621  1.00 64.85      A16S
ATOM  11277  C2* G   A 546     152.982  93.228  27.927  1.00 36.45      A16S
ATOM  11278  O2* G   A 546     153.091  91.827  27.814  1.00 36.45      A16S
ATOM  11279  C3* G   A 546     151.872  93.751  27.025  1.00 36.45      A16S
ATOM  11280  O3* G   A 546     150.793  92.836  26.920  1.00 36.45      A16S
ATOM  11281  P   A   A 547     149.833  92.579  28.178  1.00 43.98      A16S
ATOM  11282  O1P A   A 547     148.489  92.195  27.642  1.00 45.10      A16S
ATOM  11283  O2P A   A 547     149.950  93.714  29.121  1.00 45.10      A16S
ATOM  11284  O5* A   A 547     150.491  91.322  28.894  1.00 43.98      A16S
ATOM  11285  C5* A   A 547     149.837  90.053  28.873  1.00 43.98      A16S
ATOM  11286  C4* A   A 547     150.519  89.148  27.891  1.00 43.98      A16S
ATOM  11287  O4* A   A 547     151.896  88.958  28.290  1.00 43.98      A16S
ATOM  11288  C1* A   A 547     152.154  87.588  28.472  1.00 43.98      A16S
ATOM  11289  N9  A   A 547     153.071  87.452  29.603  1.00 45.10      A16S
ATOM  11290  C4  A   A 547     154.420  87.235  29.503  1.00 45.10      A16S
ATOM  11291  N3  A   A 547     155.140  87.101  28.381  1.00 45.10      A16S
ATOM  11292  C2  A   A 547     156.423  86.914  28.667  1.00 45.10      A16S
ATOM  11293  N1  A   A 547     157.021  86.844  29.854  1.00 45.10      A16S
ATOM  11294  C6  A   A 547     156.267  86.971  30.960  1.00 45.10      A16S
ATOM  11295  N6  A   A 547     156.864  86.881  32.144  1.00 45.10      A16S
ATOM  11296  C5  A   A 547     154.891  87.186  30.794  1.00 45.10      A16S
ATOM  11297  N7  A   A 547     153.859  87.367  31.698  1.00 45.10      A16S
ATOM  11298  C8  A   A 547     152.803  87.516  30.942  1.00 45.10      A16S
ATOM  11299  C2* A   A 547     150.797  86.911  28.654  1.00 43.98      A16S
ATOM  11300  O2* A   A 547     150.833  85.554  28.267  1.00 43.98      A16S
ATOM  11301  C3* A   A 547     149.896  87.769  27.772  1.00 43.98      A16S
ATOM  11302  O3* A   A 547     149.935  87.371  26.406  1.00 43.98      A16S
ATOM  11303  P   G   A 548     149.071  88.188  25.317  1.00 43.43      A16S
ATOM  11304  O1P G   A 548     147.806  88.698  25.921  1.00 45.21      A16S
ATOM  11305  O2P G   A 548     149.023  87.404  24.061  1.00 45.21      A16S
ATOM  11306  O5* G   A 548     149.950  89.474  25.035  1.00 43.43      A16S
ATOM  11307  C5* G   A 548     150.968  89.466  24.036  1.00 43.43      A16S
ATOM  11308  C4* G   A 548     152.284  89.804  24.664  1.00 43.43      A16S
ATOM  11309  O4* G   A 548     152.812  88.627  25.320  1.00 43.43      A16S
ATOM  11310  C1* G   A 548     154.221  88.606  25.184  1.00 43.43      A16S
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ATOM  11311  N9  G   A 548     154.608  87.374  24.498  1.00 45.21      A16S
ATOM  11312  C4  G   A 548     155.878  86.862  24.411  1.00 45.21      A16S
ATOM  11313  N3  G   A 548     156.989  87.419  24.925  1.00 45.21      A16S
ATOM  11314  C2  G   A 548     158.056  86.685  24.687  1.00 45.21      A16S
ATOM  11315  N2  G   A 548     159.250  87.102  25.115  1.00 45.21      A16S
ATOM  11316  N1  G   A 548     158.030  85.493  24.008  1.00 45.21      A16S
ATOM  11317  C6  G   A 548     156.892  84.907  23.477  1.00 45.21      A16S
ATOM  11318  O6  G   A 548     156.973  83.836  22.897  1.00 45.21      A16S
ATOM  11319  C5  G   A 548     155.751  85.684  23.709  1.00 45.21      A16S
ATOM  11320  N7  G   A 548     154.433  85.467  23.343  1.00 45.21      A16S
ATOM  11321  C8  G   A 548     153.791  86.494  23.829  1.00 45.21      A16S
ATOM  11322  C2* G   A 548     154.640  89.872  24.435  1.00 43.43      A16S
ATOM  11323  O2* G   A 548     155.000  90.869  25.367  1.00 43.43      A16S
ATOM  11324  C3* G   A 548     153.364  90.227  23.690  1.00 43.43      A16S
ATOM  11325  O3* G   A 548     153.262  91.621  23.442  1.00 43.43      A16S
ATOM  11326  P   C   A 549     153.427  92.172  21.946  1.00 40.07      A16S
ATOM  11327  O1P C   A 549     153.006  93.599  21.917  1.00 46.89      A16S
ATOM  11328  O2P C   A 549     152.760  91.195  21.031  1.00 46.89      A16S
ATOM  11329  O5* C   A 549     155.003  92.118  21.730  1.00 40.07      A16S
ATOM  11330  C5* C   A 549     155.880  92.807  22.627  1.00 40.07      A16S
ATOM  11331  C4* C   A 549     157.259  92.213  22.559  1.00 40.07      A16S
ATOM  11332  O4* C   A 549     157.189  90.829  22.942  1.00 40.07      A16S
ATOM  11333  C1* C   A 549     158.202  90.110  22.285  1.00 40.07      A16S
ATOM  11334  N1  C   A 549     157.619  88.936  21.657  1.00 46.89      A16S
ATOM  11335  C6  C   A 549     156.277  88.841  21.420  1.00 46.89      A16S
ATOM  11336  C2  C   A 549     158.468  87.908  21.307  1.00 46.89      A16S
ATOM  11337  O2  C   A 549     159.683  88.042  21.530  1.00 46.89      A16S
ATOM  11338  N3  C   A 549     157.960  86.795  20.732  1.00 46.89      A16S
ATOM  11339  C4  C   A 549     156.651  86.702  20.508  1.00 46.89      A16S
ATOM  11340  N4  C   A 549     156.196  85.586  19.941  1.00 46.89      A16S
ATOM  11341  C5  C   A 549     155.754  87.751  20.855  1.00 46.89      A16S
ATOM  11342  C2* C   A 549     158.900  91.036  21.300  1.00 40.07      A16S
ATOM  11343  O2* C   A 549     160.129  91.427  21.858  1.00 40.07      A16S
ATOM  11344  C3* C   A 549     157.912  92.184  21.192  1.00 40.07      A16S
ATOM  11345  O3* C   A 549     158.607  93.392  20.987  1.00 40.07      A16S
ATOM  11346  P   G   A 550     158.945  93.869  19.498  1.00 45.51      A16S
ATOM  11347  O1P G   A 550     159.358  95.306  19.610  1.00 39.39      A16S
ATOM  11348  O2P G   A 550     157.801  93.485  18.600  1.00 39.39      A16S
ATOM  11349  O5* G   A 550     160.216  92.990  19.101  1.00 45.51      A16S
ATOM  11350  C5* G   A 550     160.384  92.518  17.753  1.00 45.51      A16S
ATOM  11351  C4* G   A 550     161.367  91.382  17.708  1.00 45.51      A16S
ATOM  11352  O4* G   A 550     160.910  90.307  18.559  1.00 45.51      A16S
ATOM  11353  C1* G   A 550     161.294  89.067  18.000  1.00 45.51      A16S
ATOM  11354  N9  G   A 550     160.113  88.242  17.801  1.00 39.39      A16S
ATOM  11355  C4  G   A 550     160.126  86.939  17.387  1.00 39.39      A16S
ATOM  11356  N3  G   A 550     161.227  86.216  17.089  1.00 39.39      A16S
ATOM  11357  C2  G   A 550     160.920  84.999  16.689  1.00 39.39      A16S
ATOM  11358  N2  G   A 550     161.885  84.161  16.331  1.00 39.39      A16S
ATOM  11359  N1  G   A 550     159.644  84.519  16.601  1.00 39.39      A16S
ATOM  11360  C6  G   A 550     158.497  85.244  16.898  1.00 39.39      A16S
ATOM  11361  O6  G   A 550     157.389  84.721  16.762  1.00 39.39      A16S
ATOM  11362  C5  G   A 550     158.807  86.560  17.325  1.00 39.39      A16S
ATOM  11363  N7  G   A 550     157.976  87.607  17.696  1.00 39.39      A16S
ATOM  11364  C8  G   A 550     158.797  88.584  17.970  1.00 39.39      A16S
ATOM  11365  C2* G   A 550     162.003  89.338  16.679  1.00 45.51      A16S
ATOM  11366  O2* G   A 550     163.396  89.275  16.871  1.00 45.51      A16S
ATOM  11367  C3* G   A 550     161.504  90.731  16.346  1.00 45.51      A16S
ATOM  11368  O3* G   A 550     162.401  91.425  15.510  1.00 45.51      A16S
ATOM  11369  P   U   A 551     162.169  91.395  13.932  1.00 43.88      A16S
ATOM  11370  O1P U   A 551     163.153  92.339  13.341  1.00 37.97      A16S
ATOM  11371  O2P U   A 551     160.724  91.581  13.669  1.00 37.97      A16S
ATOM  11372  O5* U   A 551     162.553  89.902  13.531  1.00 43.88      A16S
ATOM  11373  C5* U   A 551     163.904  89.428  13.690  1.00 43.88      A16S
ATOM  11374  C4* U   A 551     164.016  87.984  13.261  1.00 43.88      A16S
ATOM  11375  O4* U   A 551     163.252  87.140  14.152  1.00 43.88      A16S
ATOM  11376  C1* U   A 551     162.696  86.062  13.431  1.00 43.88      A16S
ATOM  11377  N1  U   A 551     161.236  86.116  13.571  1.00 37.97      A16S
ATOM  11378  C6  U   A 551     160.606  87.248  14.018  1.00 37.97      A16S
ATOM  11379  C2  U   A 551     160.512  84.982  13.247  1.00 37.97      A16S
ATOM  11380  O2  U   A 551     161.031  83.958  12.811  1.00 37.97      A16S
ATOM  11381  N3  U   A 551     159.161  85.096  13.442  1.00 37.97      A16S
ATOM  11382  C4  U   A 551     158.487  86.194  13.900  1.00 37.97      A16S
ATOM  11383  O4  U   A 551     157.289  86.117  14.092  1.00 37.97      A16S
ATOM  11384  C5  U   A 551     159.295  87.318  14.184  1.00 37.97      A16S
ATOM  11385  C2* U   A 551     163.166  86.175  11.988  1.00 43.88      A16S
ATOM  11386  O2* U   A 551     164.298  85.351  11.887  1.00 43.88      A16S
ATOM  11387  C3* U   A 551     163.489  87.658  11.882  1.00 43.88      A16S
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ATOM  11388  O3* U   A 551     164.486  87.935  10.918  1.00 43.88      A16S
ATOM  11389  P   U   A 552     164.053  88.328   9.428  1.00 30.51      A16S
ATOM  11390  O1P U   A 552     165.275  88.741   8.702  1.00 39.53      A16S
ATOM  11391  O2P U   A 552     162.910  89.273   9.523  1.00 39.53      A16S
ATOM  11392  O5* U   A 552     163.518  86.952   8.834  1.00 30.51      A16S
ATOM  11393  C5* U   A 552     164.376  85.811   8.754  1.00 30.51      A16S
ATOM  11394  C4* U   A 552     163.577  84.582   8.397  1.00 30.51      A16S
ATOM  11395  O4* U   A 552     162.720  84.202   9.502  1.00 30.51      A16S
ATOM  11396  C1* U   A 552     161.529  83.616   9.004  1.00 30.51      A16S
ATOM  11397  N1  U   A 552     160.370  84.378   9.500  1.00 39.53      A16S
ATOM  11398  C6  U   A 552     160.478  85.689   9.871  1.00 39.53      A16S
ATOM  11399  C2  U   A 552     159.166  83.721   9.582  1.00 39.53      A16S
ATOM  11400  O2  U   A 552     159.023  82.566   9.240  1.00 39.53      A16S
ATOM  11401  N3  U   A 552     158.130  84.467  10.071  1.00 39.53      A16S
ATOM  11402  C4  U   A 552     158.171  85.778  10.470  1.00 39.53      A16S
ATOM  11403  O4  U   A 552     157.152  86.314  10.917  1.00 39.53      A16S
ATOM  11404  C5  U   A 552     159.448  86.393  10.338  1.00 39.53      A16S
ATOM  11405  C2* U   A 552     161.626  83.607   7.482  1.00 30.51      A16S
ATOM  11406  O2* U   A 552     162.150  82.367   7.071  1.00 30.51      A16S
ATOM  11407  C3* U   A 552     162.620  84.723   7.234  1.00 30.51      A16S
ATOM  11408  O3* U   A 552     163.252  84.573   5.993  1.00 30.51      A16S
ATOM  11409  P   A   A 553     162.664  85.361   4.733  1.00 28.86      A16S
ATOM  11410  O1P A   A 553     163.593  85.145   3.597  1.00 39.23      A16S
ATOM  11411  O2P A   A 553     162.337  86.751   5.156  1.00 39.23      A16S
ATOM  11412  O5* A   A 553     161.318  84.578   4.438  1.00 28.86      A16S
ATOM  11413  C5* A   A 553     161.366  83.210   4.064  1.00 28.86      A16S
ATOM  11414  C4* A   A 553     159.984  82.714   3.823  1.00 28.86      A16S
ATOM  11415  O4* A   A 553     159.276  82.627   5.079  1.00 28.86      A16S
ATOM  11416  C1* A   A 553     157.934  83.027   4.893  1.00 28.86      A16S
ATOM  11417  N9  A   A 553     157.662  84.141   5.799  1.00 39.23      A16S
ATOM  11418  C4  A   A 553     156.490  84.352   6.482  1.00 39.23      A16S
ATOM  11419  N3  A   A 553     155.385  83.595   6.453  1.00 39.23      A16S
ATOM  11420  C2  A   A 553     154.449  84.106   7.241  1.00 39.23      A16S
ATOM  11421  N1  A   A 553     154.488  85.197   7.993  1.00 39.23      A16S
ATOM  11422  C6  A   A 553     155.612  85.931   8.005  1.00 39.23      A16S
ATOM  11423  N6  A   A 553     155.651  87.018   8.768  1.00 39.23      A16S
ATOM  11424  C5  A   A 553     156.679  85.504   7.212  1.00 39.23      A16S
ATOM  11425  N7  A   A 553     157.949  86.019   6.999  1.00 39.23      A16S
ATOM  11426  C8  A   A 553     158.491  85.176   6.154  1.00 39.23      A16S
ATOM  11427  C2* A   A 553     157.746  83.378   3.413  1.00 28.86      A16S
ATOM  11428  O2* A   A 553     157.221  82.277   2.708  1.00 28.86      A16S
ATOM  11429  C3* A   A 553     159.170  83.664   2.977  1.00 28.86      A16S
ATOM  11430  O3* A   A 553     159.368  83.393   1.608  1.00 28.86      A16S
ATOM  11431  P   C   A 554     159.194  84.578   0.551  1.00 29.31      A16S
ATOM  11432  O1P C   A 554     159.704  84.095  -0.768  1.00 43.08      A16S
ATOM  11433  O2P C   A 554     159.758  85.825   1.149  1.00 43.08      A16S
ATOM  11434  O5* C   A 554     157.616  84.748   0.471  1.00 29.31      A16S
ATOM  11435  C5* C   A 554     156.803  83.688  -0.029  1.00 29.31      A16S
ATOM  11436  C4* C   A 554     155.344  83.986   0.195  1.00 29.31      A16S
ATOM  11437  O4* C   A 554     155.023  83.909   1.605  1.00 29.31      A16S
ATOM  11438  C1* C   A 554     153.962  84.798   1.893  1.00 29.31      A16S
ATOM  11439  N1  C   A 554     154.397  85.725   2.946  1.00 43.08      A16S
ATOM  11440  C6  C   A 554     155.611  86.330   2.884  1.00 43.08      A16S
ATOM  11441  C2  C   A 554     153.547  85.977   4.003  1.00 43.08      A16S
ATOM  11442  O2  C   A 554     152.447  85.408   4.035  1.00 43.08      A16S
ATOM  11443  N3  C   A 554     153.930  86.828   4.971  1.00 43.08      A16S
ATOM  11444  C4  C   A 554     155.118  87.414   4.902  1.00 43.08      A16S
ATOM  11445  N4  C   A 554     155.469  88.247   5.883  1.00 43.08      A16S
ATOM  11446  C5  C   A 554     156.006  87.174   3.830  1.00 43.08      A16S
ATOM  11447  C2* C   A 554     153.583  85.509   0.594  1.00 29.31      A16S
ATOM  11448  O2* C   A 554     152.511  84.836  -0.031  1.00 29.31      A16S
ATOM  11449  C3* C   A 554     154.849  85.353  -0.223  1.00 29.31      A16S
ATOM  11450  O3* C   A 554     154.523  85.409  -1.583  1.00 29.31      A16S
ATOM  11451  P   C   A 555     154.356  86.835  -2.275  1.00 26.98      A16S
ATOM  11452  O1P C   A 555     154.243  86.604  -3.744  1.00 50.74      A16S
ATOM  11453  O2P C   A 555     155.424  87.725  -1.744  1.00 50.74      A16S
ATOM  11454  O5* C   A 555     152.968  87.376  -1.716  1.00 26.98      A16S
ATOM  11455  C5* C   A 555     151.740  86.859  -2.244  1.00 26.98      A16S
ATOM  11456  C4* C   A 555     150.576  87.715  -1.830  1.00 26.98      A16S
ATOM  11457  O4* C   A 555     150.345  87.554  -0.416  1.00 26.98      A16S
ATOM  11458  C1* C   A 555     149.890  88.773   0.128  1.00 26.98      A16S
ATOM  11459  N1  C   A 555     150.857  89.199   1.162  1.00 50.74      A16S
ATOM  11460  C6  C   A 555     152.157  88.789   1.104  1.00 50.74      A16S
ATOM  11461  C2  C   A 555     150.427  90.025   2.206  1.00 50.74      A16S
ATOM  11462  O2  C   A 555     149.250  90.385   2.243  1.00 50.74      A16S
ATOM  11463  N3  C   A 555     151.307  90.409   3.144  1.00 50.74      A16S
ATOM  11464  C4  C   A 555     152.572  90.003   3.074  1.00 50.74      A16S
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ATOM  11465  N4   C   A 555     153.412  90.413   4.013  1.00 50.74      A16S
ATOM  11466  C5   C   A 555     153.036  89.161   2.032  1.00 50.74      A16S
ATOM  11467  C2*  C   A 555     149.733  89.761  -1.035  1.00 26.98      A16S
ATOM  11468  O2*  C   A 555     148.425  89.671  -1.569  1.00 26.98      A16S
ATOM  11469  C3*  C   A 555     150.718  89.208  -2.041  1.00 26.98      A16S
ATOM  11470  O3*  C   A 555     150.323  89.585  -3.340  1.00 26.98      A16S
ATOM  11471  P    C   A 556     150.826  90.982  -3.938  1.00 24.70      A16S
ATOM  11472  O1P  C   A 556     150.379  91.052  -5.352  1.00 36.53      A16S
ATOM  11473  O2P  C   A 556     152.264  91.131  -3.619  1.00 36.53      A16S
ATOM  11474  O5*  C   A 556     150.045  92.077  -3.085  1.00 24.70      A16S
ATOM  11475  C5*  C   A 556     148.660  92.361  -3.350  1.00 24.70      A16S
ATOM  11476  C4*  C   A 556     148.169  93.485  -2.476  1.00 24.70      A16S
ATOM  11477  O4*  C   A 556     148.156  93.059  -1.088  1.00 24.70      A16S
ATOM  11478  C1*  C   A 556     148.490  94.145  -0.245  1.00 24.70      A16S
ATOM  11479  N1   C   A 556     149.770  93.846   0.414  1.00 36.53      A16S
ATOM  11480  C6   C   A 556     150.664  92.989  -0.156  1.00 36.53      A16S
ATOM  11481  C2   C   A 556     150.071  94.469   1.629  1.00 36.53      A16S
ATOM  11482  O2   C   A 556     149.224  95.203   2.156  1.00 36.53      A16S
ATOM  11483  N3   C   A 556     151.274  94.248   2.205  1.00 36.53      A16S
ATOM  11484  C4   C   A 556     152.145  93.424   1.627  1.00 36.53      A16S
ATOM  11485  N4   C   A 556     153.323  93.244   2.215  1.00 36.53      A16S
ATOM  11486  C5   C   A 556     151.848  92.749   0.413  1.00 36.53      A16S
ATOM  11487  C2*  C   A 556     148.626  95.366  -1.140  1.00 24.70      A16S
ATOM  11488  O2*  C   A 556     147.354  95.972  -1.221  1.00 24.70      A16S
ATOM  11489  C3*  C   A 556     149.032  94.723  -2.455  1.00 24.70      A16S
ATOM  11490  O3*  C   A 556     148.843  95.546  -3.580  1.00 24.70      A16S
ATOM  11491  P    G   A 557     150.094  96.388  -4.138  1.00 25.34      A16S
ATOM  11492  O1P  G   A 557     149.684  96.967  -5.445  1.00 53.30      A16S
ATOM  11493  O2P  G   A 557     151.323  95.545  -4.060  1.00 53.30      A16S
ATOM  11494  O5*  G   A 557     150.257  97.566  -3.086  1.00 25.34      A16S
ATOM  11495  C5*  G   A 557     149.109  98.280  -2.632  1.00 25.34      A16S
ATOM  11496  C4*  G   A 557     149.417  99.026  -1.367  1.00 25.34      A16S
ATOM  11497  O4*  G   A 557     149.870  98.112  -0.344  1.00 25.34      A16S
ATOM  11498  C1*  G   A 557     150.814  98.759   0.480  1.00 25.34      A16S
ATOM  11499  N9   G   A 557     152.014  97.935   0.550  1.00 53.30      A16S
ATOM  11500  C4   G   A 557     153.004  98.056   1.476  1.00 53.30      A16S
ATOM  11501  N3   G   A 557     153.053  98.977   2.451  1.00 53.30      A16S
ATOM  11502  C2   G   A 557     154.107  98.823   3.218  1.00 53.30      A16S
ATOM  11503  N2   G   A 557     154.295  99.642   4.255  1.00 53.30      A16S
ATOM  11504  N1   G   A 557     155.048  97.849   3.033  1.00 53.30      A16S
ATOM  11505  C6   G   A 557     155.013  96.888   2.031  1.00 53.30      A16S
ATOM  11506  O6   G   A 557     155.909  96.041   1.957  1.00 53.30      A16S
ATOM  11507  C5   G   A 557     153.884  97.040   1.208  1.00 53.30      A16S
ATOM  11508  N7   G   A 557     153.470  96.306   0.111  1.00 53.30      A16S
ATOM  11509  C8   G   A 557     152.359  96.878  -0.252  1.00 53.30      A16S
ATOM  11510  C2*  G   A 557     151.013 100.179  -0.048  1.00 25.34      A16S
ATOM  11511  O2*  G   A 557     150.188 101.024   0.723  1.00 25.34      A16S
ATOM  11512  C3*  G   A 557     150.526 100.040  -1.482  1.00 25.34      A16S
ATOM  11513  O3*  G   A 557     149.975 101.207  -2.022  1.00 25.34      A16S
ATOM  11514  P    G   A 558     150.514 101.731  -3.424  1.00 18.34      A16S
ATOM  11515  O1P  G   A 558     149.527 102.670  -4.025  1.00 40.53      A16S
ATOM  11516  O2P  G   A 558     150.930 100.529  -4.193  1.00 40.53      A16S
ATOM  11517  O5*  G   A 558     151.780 102.578  -2.976  1.00 18.34      A16S
ATOM  11518  C5*  G   A 558     151.603 103.659  -2.060  1.00 18.34      A16S
ATOM  11519  C4*  G   A 558     152.825 103.848  -1.206  1.00 18.34      A16S
ATOM  11520  O4*  G   A 558     153.069 102.673  -0.404  1.00 18.34      A16S
ATOM  11521  C1*  G   A 558     154.464 102.502  -0.228  1.00 18.34      A16S
ATOM  11522  N9   G   A 558     154.808 101.194  -0.768  1.00 40.53      A16S
ATOM  11523  C4   G   A 558     155.722 100.292  -0.275  1.00 40.53      A16S
ATOM  11524  N3   G   A 558     156.503 100.460   0.806  1.00 40.53      A16S
ATOM  11525  C2   G   A 558     157.248  99.398   1.043  1.00 40.53      A16S
ATOM  11526  N2   G   A 558     158.064  99.371   2.091  1.00 40.53      A16S
ATOM  11527  N1   G   A 558     157.242  98.272   0.277  1.00 40.53      A16S
ATOM  11528  C6   G   A 558     156.442  98.072  -0.840  1.00 40.53      A16S
ATOM  11529  O6   G   A 558     156.488  96.983  -1.458  1.00 40.53      A16S
ATOM  11530  C5   G   A 558     155.636  99.203  -1.104  1.00 40.53      A16S
ATOM  11531  N7   G   A 558     154.709  99.422  -2.108  1.00 40.53      A16S
ATOM  11532  C8   G   A 558     154.249 100.614  -1.871  1.00 40.53      A16S
ATOM  11533  C2*  G   A 558     155.170 103.668  -0.927  1.00 18.34      A16S
ATOM  11534  O2*  G   A 558     155.447 104.661   0.041  1.00 18.34      A16S
ATOM  11535  C3*  G   A 558     154.119 104.095  -1.948  1.00 18.34      A16S
ATOM  11536  O3*  G   A 558     154.185 105.463  -2.285  1.00 18.34      A16S
ATOM  11537  P    A   A 559     155.079 105.935  -3.517  1.00 35.49      A16S
ATOM  11538  O1P  A   A 559     156.419 106.241  -2.968  1.00 41.33      A16S
ATOM  11539  O2P  A   A 559     154.336 106.964  -4.284  1.00 41.33      A16S
ATOM  11540  O5*  A   A 559     155.232 104.646  -4.428  1.00 35.49      A16S
ATOM  11541  C5*  A   A 559     155.476 104.786  -5.841  1.00 35.49      A16S
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ATOM  11542  C4* A   A 559     154.963 103.576  -6.581  1.00 35.49      A16S
ATOM  11543  O4* A   A 559     155.966 102.535  -6.645  1.00 35.49      A16S
ATOM  11544  C1* A   A 559     155.376 101.285  -6.369  1.00 35.49      A16S
ATOM  11545  N9  A   A 559     156.376 100.434  -5.724  1.00 41.33      A16S
ATOM  11546  C4  A   A 559     157.011 100.662  -4.535  1.00 41.33      A16S
ATOM  11547  N3  A   A 559     156.852 101.715  -3.728  1.00 41.33      A16S
ATOM  11548  C2  A   A 559     157.609 101.584  -2.645  1.00 41.33      A16S
ATOM  11549  N1  A   A 559     158.449 100.595  -2.306  1.00 41.33      A16S
ATOM  11550  C6  A   A 559     158.592  99.556  -3.150  1.00 41.33      A16S
ATOM  11551  N6  A   A 559     159.444  98.574  -2.816  1.00 41.33      A16S
ATOM  11552  C5  A   A 559     157.836  99.575  -4.332  1.00 41.33      A16S
ATOM  11553  N7  A   A 559     157.734  98.683  -5.381  1.00 41.33      A16S
ATOM  11554  C8  A   A 559     156.861  99.240  -6.179  1.00 41.33      A16S
ATOM  11555  C2* A   A 559     154.139 101.541  -5.513  1.00 35.49      A16S
ATOM  11556  O2* A   A 559     153.243 100.496  -5.822  1.00 35.49      A16S
ATOM  11557  C3* A   A 559     153.732 102.944  -5.972  1.00 35.49      A16S
ATOM  11558  O3* A   A 559     152.445 103.433  -6.355  1.00 35.49      A16S
ATOM  11559  P   U   A 560     151.679 102.801  -7.604  1.00 28.36      A16S
ATOM  11560  O1P U   A 560     150.254 102.604  -7.197  1.00 56.81      A16S
ATOM  11561  O2P U   A 560     152.454 101.654  -8.128  1.00 56.81      A16S
ATOM  11562  O5* U   A 560     151.739 103.940  -8.688  1.00 28.36      A16S
ATOM  11563  C5* U   A 560     152.030 103.608 -10.027  1.00 28.36      A16S
ATOM  11564  C4* U   A 560     152.659 104.778 -10.709  1.00 28.36      A16S
ATOM  11565  O4* U   A 560     151.631 105.662 -11.209  1.00 28.36      A16S
ATOM  11566  C1* U   A 560     151.976 106.998 -10.927  1.00 28.36      A16S
ATOM  11567  N1  U   A 560     150.924 107.499 -10.033  1.00 56.81      A16S
ATOM  11568  C6  U   A 560     150.653 106.866  -8.847  1.00 56.81      A16S
ATOM  11569  C2  U   A 560     150.197 108.592 -10.434  1.00 56.81      A16S
ATOM  11570  O2  U   A 560     150.429 109.201 -11.455  1.00 56.81      A16S
ATOM  11571  N3  U   A 560     149.184 108.951  -9.587  1.00 56.81      A16S
ATOM  11572  C4  U   A 560     148.845 108.344  -8.393  1.00 56.81      A16S
ATOM  11573  O4  U   A 560     147.905 108.787  -7.726  1.00 56.81      A16S
ATOM  11574  C5  U   A 560     149.666 107.238  -8.040  1.00 56.81      A16S
ATOM  11575  C2* U   A 560     153.427 107.007 -10.403  1.00 28.36      A16S
ATOM  11576  O2* U   A 560     154.287 107.202 -11.511  1.00 28.36      A16S
ATOM  11577  C3* U   A 560     153.531 105.609  -9.788  1.00 28.36      A16S
ATOM  11578  O3* U   A 560     154.762 104.876  -9.573  1.00 28.36      A16S
ATOM  11579  P   U   A 561     156.216 105.447  -9.994  1.00 23.25      A16S
ATOM  11580  O1P U   A 561     156.959 105.601  -8.718  1.00 56.03      A16S
ATOM  11581  O2P U   A 561     156.227 106.554 -10.984  1.00 56.03      A16S
ATOM  11582  O5* U   A 561     156.824 104.177 -10.738  1.00 23.25      A16S
ATOM  11583  C5* U   A 561     156.298 103.770 -12.020  1.00 23.25      A16S
ATOM  11584  C4* U   A 561     156.377 102.267 -12.195  1.00 23.25      A16S
ATOM  11585  O4* U   A 561     157.713 101.805 -11.864  1.00 23.25      A16S
ATOM  11586  C1* U   A 561     157.627 100.742 -10.946  1.00 23.25      A16S
ATOM  11587  N1  U   A 561     158.721 100.849  -9.975  1.00 56.03      A16S
ATOM  11588  C6  U   A 561     158.962 102.017  -9.318  1.00 56.03      A16S
ATOM  11589  C2  U   A 561     159.479  99.722  -9.725  1.00 56.03      A16S
ATOM  11590  O2  U   A 561     159.322  98.655 -10.316  1.00 56.03      A16S
ATOM  11591  N3  U   A 561     160.428  99.879  -8.754  1.00 56.03      A16S
ATOM  11592  C4  U   A 561     160.684 101.011  -8.025  1.00 56.03      A16S
ATOM  11593  O4  U   A 561     161.406 100.934  -7.031  1.00 56.03      A16S
ATOM  11594  C5  U   A 561     159.889 102.133  -8.381  1.00 56.03      A16S
ATOM  11595  C2* U   A 561     156.270 100.866 -10.270  1.00 23.25      A16S
ATOM  11596  O2* U   A 561     155.878  99.598  -9.791  1.00 23.25      A16S
ATOM  11597  C3* U   A 561     155.409 101.396 -11.405  1.00 23.25      A16S
ATOM  11598  O3* U   A 561     155.065 100.330 -12.272  1.00 23.25      A16S
ATOM  11599  P   C   A 562     154.016  99.198 -11.819  1.00 22.72      A16S
ATOM  11600  O1P C   A 562     153.079  99.745 -10.809  1.00 35.39      A16S
ATOM  11601  O2P C   A 562     154.752  97.951 -11.524  1.00 35.39      A16S
ATOM  11602  O5* C   A 562     153.230  98.930 -13.166  1.00 22.72      A16S
ATOM  11603  C5* C   A 562     152.629 100.009 -13.890  1.00 22.72      A16S
ATOM  11604  C4* C   A 562     151.721  99.446 -14.931  1.00 22.72      A16S
ATOM  11605  O4* C   A 562     152.516  99.026 -16.064  1.00 22.72      A16S
ATOM  11606  C1* C   A 562     152.337  97.650 -16.282  1.00 22.72      A16S
ATOM  11607  N1  C   A 562     153.600  97.096 -16.759  1.00 35.39      A16S
ATOM  11608  C6  C   A 562     154.725  97.138 -15.986  1.00 35.39      A16S
ATOM  11609  C2  C   A 562     153.641  96.534 -18.026  1.00 35.39      A16S
ATOM  11610  O2  C   A 562     152.612  96.511 -18.703  1.00 35.39      A16S
ATOM  11611  N3  C   A 562     154.802  96.035 -18.492  1.00 35.39      A16S
ATOM  11612  C4  C   A 562     155.901  96.097 -17.743  1.00 35.39      A16S
ATOM  11613  N4  C   A 562     157.037  95.619 -18.256  1.00 35.39      A16S
ATOM  11614  C5  C   A 562     155.888  96.658 -16.436  1.00 35.39      A16S
ATOM  11615  C2* C   A 562     151.864  97.073 -14.955  1.00 22.72      A16S
ATOM  11616  O2* C   A 562     151.225  95.829 -15.139  1.00 22.72      A16S
ATOM  11617  C3* C   A 562     150.990  98.209 -14.416  1.00 22.72      A16S
ATOM  11618  O3* C   A 562     149.640  98.157 -14.910  1.00 22.72      A16S
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ATOM  11619  P    A   A 563     148.499  99.059 -14.218  1.00 14.68      A16S
ATOM  11620  O1P  A   A 563     148.616  98.927 -12.738  1.00 19.67      A16S
ATOM  11621  O2P  A   A 563     147.211  98.744 -14.887  1.00 19.67      A16S
ATOM  11622  O5*  A   A 563     148.911 100.546 -14.624  1.00 14.68      A16S
ATOM  11623  C5*  A   A 563     148.162 101.662 -14.133  1.00 14.68      A16S
ATOM  11624  C4*  A   A 563     148.524 102.920 -14.875  1.00 14.68      A16S
ATOM  11625  O4*  A   A 563     149.780 103.454 -14.438  1.00 14.68      A16S
ATOM  11626  C1*  A   A 563     150.301 104.276 -15.455  1.00 14.68      A16S
ATOM  11627  N9   A   A 563     151.757 104.144 -15.420  1.00 19.67      A16S
ATOM  11628  C4   A   A 563     152.581 103.291 -16.113  1.00 19.67      A16S
ATOM  11629  N3   A   A 563     152.234 102.387 -17.035  1.00 19.67      A16S
ATOM  11630  C2   A   A 563     153.298 101.724 -17.465  1.00 19.67      A16S
ATOM  11631  N1   A   A 563     154.565 101.845 -17.110  1.00 19.67      A16S
ATOM  11632  C6   A   A 563     154.882 102.755 -16.180  1.00 19.67      A16S
ATOM  11633  N6   A   A 563     156.156 102.869 -15.819  1.00 19.67      A16S
ATOM  11634  C5   A   A 563     153.851 103.530 -15.643  1.00 19.67      A16S
ATOM  11635  N7   A   A 563     153.838 104.530 -14.684  1.00 19.67      A16S
ATOM  11636  C8   A   A 563     152.579 104.865 -14.598  1.00 19.67      A16S
ATOM  11637  C2*  A   A 563     149.526 104.002 -16.757  1.00 14.68      A16S
ATOM  11638  O2*  A   A 563     148.821 105.158 -17.211  1.00 14.68      A16S
ATOM  11639  C3*  A   A 563     148.626 102.813 -16.377  1.00 14.68      A16S
ATOM  11640  O3*  A   A 563     147.288 102.973 -16.802  1.00 14.68      A16S
ATOM  11641  P    C   A 564     146.883 102.717 -18.318  1.00 23.65      A16S
ATOM  11642  O1P  C   A 564     147.447 101.399 -18.663  1.00 33.13      A16S
ATOM  11643  O2P  C   A 564     147.215 103.925 -19.138  1.00 33.13      A16S
ATOM  11644  O5*  C   A 564     145.307 102.566 -18.228  1.00 23.65      A16S
ATOM  11645  C5*  C   A 564     144.437 103.123 -19.216  1.00 23.65      A16S
ATOM  11646  C4*  C   A 564     143.168 103.604 -18.557  1.00 23.65      A16S
ATOM  11647  O4*  C   A 564     142.510 102.508 -17.878  1.00 23.65      A16S
ATOM  11648  C1*  C   A 564     141.892 102.985 -16.695  1.00 23.65      A16S
ATOM  11649  N1   C   A 564     142.361 102.201 -15.543  1.00 33.13      A16S
ATOM  11650  C6   C   A 564     143.322 101.248 -15.682  1.00 33.13      A16S
ATOM  11651  C2   C   A 564     141.807 102.459 -14.298  1.00 33.13      A16S
ATOM  11652  O2   C   A 564     140.924 103.323 -14.199  1.00 33.13      A16S
ATOM  11653  N3   C   A 564     142.238 101.773 -13.230  1.00 33.13      A16S
ATOM  11654  C4   C   A 564     143.187 100.858 -13.368  1.00 33.13      A16S
ATOM  11655  N4   C   A 564     143.600 100.215 -12.269  1.00 33.13      A16S
ATOM  11656  C5   C   A 564     143.761 100.560 -14.632  1.00 33.13      A16S
ATOM  11657  C2*  C   A 564     142.187 104.482 -16.564  1.00 23.65      A16S
ATOM  11658  O2*  C   A 564     141.067 105.242 -16.981  1.00 23.65      A16S
ATOM  11659  C3*  C   A 564     143.384 104.652 -17.483  1.00 23.65      A16S
ATOM  11660  O3*  C   A 564     143.321 105.919 -18.086  1.00 23.65      A16S
ATOM  11661  P    U   A 565     144.126 107.134 -17.453  1.00 26.50      A16S
ATOM  11662  O1P  U   A 565     143.637 108.317 -18.213  1.00 39.55      A16S
ATOM  11663  O2P  U   A 565     145.586 106.795 -17.439  1.00 39.55      A16S
ATOM  11664  O5*  U   A 565     143.562 107.245 -15.980  1.00 26.50      A16S
ATOM  11665  C5*  U   A 565     142.317 107.885 -15.778  1.00 26.50      A16S
ATOM  11666  C4*  U   A 565     141.987 107.933 -14.325  1.00 26.50      A16S
ATOM  11667  O4*  U   A 565     141.790 106.587 -13.835  1.00 26.50      A16S
ATOM  11668  C1*  U   A 565     142.114 106.544 -12.470  1.00 26.50      A16S
ATOM  11669  N1   U   A 565     143.053 105.435 -12.249  1.00 39.55      A16S
ATOM  11670  C6   U   A 565     144.160 105.282 -13.032  1.00 39.55      A16S
ATOM  11671  C2   U   A 565     142.790 104.555 -11.219  1.00 39.55      A16S
ATOM  11672  O2   U   A 565     141.809 104.642 -10.493  1.00 39.55      A16S
ATOM  11673  N3   U   A 565     143.718 103.563 -11.066  1.00 39.55      A16S
ATOM  11674  C4   U   A 565     144.846 103.365 -11.817  1.00 39.55      A16S
ATOM  11675  O4   U   A 565     145.552 102.390 -11.596  1.00 39.55      A16S
ATOM  11676  C5   U   A 565     145.042 104.306 -12.851  1.00 39.55      A16S
ATOM  11677  C2*  U   A 565     142.634 107.933 -12.067  1.00 26.50      A16S
ATOM  11678  O2*  U   A 565     141.573 108.670 -11.496  1.00 26.50      A16S
ATOM  11679  C3*  U   A 565     143.029 108.534 -13.407  1.00 26.50      A16S
ATOM  11680  O3*  U   A 565     142.926 109.956 -13.388  1.00 26.50      A16S
ATOM  11681  P    G   A 566     144.204 110.853 -12.976  1.00 36.65      A16S
ATOM  11682  O1P  G   A 566     144.138 112.114 -13.753  1.00 32.34      A16S
ATOM  11683  O2P  G   A 566     144.265 110.929 -11.490  1.00 32.34      A16S
ATOM  11684  O5*  G   A 566     145.436 109.984 -13.499  1.00 36.65      A16S
ATOM  11685  C5*  G   A 566     146.712 110.587 -13.758  1.00 36.65      A16S
ATOM  11686  C4*  G   A 566     147.685 109.557 -14.283  1.00 36.65      A16S
ATOM  11687  O4*  G   A 566     148.141 108.726 -13.186  1.00 36.65      A16S
ATOM  11688  C1*  G   A 566     147.834 107.374 -13.439  1.00 36.65      A16S
ATOM  11689  N9   G   A 566     147.429 106.781 -12.168  1.00 32.34      A16S
ATOM  11690  C4   G   A 566     147.890 105.614 -11.592  1.00 32.34      A16S
ATOM  11691  N3   G   A 566     148.783 104.757 -12.127  1.00 32.34      A16S
ATOM  11692  C2   G   A 566     149.030 103.734 -11.317  1.00 32.34      A16S
ATOM  11693  N2   G   A 566     149.873 102.760 -11.690  1.00 32.34      A16S
ATOM  11694  N1   G   A 566     148.465 103.583 -10.076  1.00 32.34      A16S
ATOM  11695  C6   G   A 566     147.561 104.464  -9.502  1.00 32.34      A16S
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ATOM  11696  O6  G   A 566     147.148 104.256  -8.361  1.00 32.34      A16S
ATOM  11697  C5  G   A 566     147.261 105.539 -10.370  1.00 32.34      A16S
ATOM  11698  N7  G   A 566     146.399 106.605 -10.199  1.00 32.34      A16S
ATOM  11699  C8  G   A 566     146.529 107.310 -11.287  1.00 32.34      A16S
ATOM  11700  C2* G   A 566     146.754 107.390 -14.517  1.00 36.65      A16S
ATOM  11701  O2* G   A 566     146.799 106.223 -15.299  1.00 36.65      A16S
ATOM  11702  C3* G   A 566     147.142 108.611 -15.339  1.00 36.65      A16S
ATOM  11703  O3* G   A 566     148.293 108.092 -15.972  1.00 36.65      A16S
ATOM  11704  O5* G   A 567     150.018 109.905 -16.553  1.00 33.52      A16S
ATOM  11705  C5* G   A 567     150.721 108.642 -16.521  1.00 33.52      A16S
ATOM  11706  C4* G   A 567     152.240 108.584 -16.478  1.00 33.52      A16S
ATOM  11707  O4* G   A 567     152.640 107.207 -16.252  1.00 33.52      A16S
ATOM  11708  C1* G   A 567     153.775 106.884 -17.041  1.00 33.52      A16S
ATOM  11709  N9  G   A 567     153.357 105.871 -18.006  1.00 31.21      A16S
ATOM  11710  C4  G   A 567     154.147 104.999 -18.725  1.00 31.21      A16S
ATOM  11711  N3  G   A 567     155.487 104.878 -18.647  1.00 31.21      A16S
ATOM  11712  C2  G   A 567     155.948 103.952 -19.492  1.00 31.21      A16S
ATOM  11713  N2  G   A 567     157.252 103.676 -19.540  1.00 31.21      A16S
ATOM  11714  N1  G   A 567     155.165 103.229 -20.345  1.00 31.21      A16S
ATOM  11715  C6  G   A 567     153.789 103.350 -20.451  1.00 31.21      A16S
ATOM  11716  O6  G   A 567     153.174 102.667 -21.272  1.00 31.21      A16S
ATOM  11717  C5  G   A 567     153.276 104.312 -19.544  1.00 31.21      A16S
ATOM  11718  N7  G   A 567     151.972 104.718 -19.323  1.00 31.21      A16S
ATOM  11719  C8  G   A 567     152.067 105.631 -18.400  1.00 31.21      A16S
ATOM  11720  C2* G   A 567     154.250 108.188 -17.687  1.00 33.52      A16S
ATOM  11721  O2* G   A 567     155.190 108.801 -16.829  1.00 33.52      A16S
ATOM  11722  C3* G   A 567     152.965 109.006 -17.746  1.00 33.52      A16S
ATOM  11723  O3* G   A 567     153.230 110.398 -17.657  1.00 33.52      A16S
ATOM  11724  P   G   A 568     153.899 111.182 -18.891  1.00 37.24      A16S
ATOM  11725  O1P G   A 568     154.334 112.486 -18.307  1.00 30.63      A16S
ATOM  11726  O2P G   A 568     153.011 111.167 -20.084  1.00 30.63      A16S
ATOM  11727  O5* G   A 568     155.195 110.318 -19.211  1.00 37.24      A16S
ATOM  11728  C5* G   A 568     155.777 110.284 -20.522  1.00 37.24      A16S
ATOM  11729  C4* G   A 568     156.845 109.225 -20.565  1.00 37.24      A16S
ATOM  11730  O4* G   A 568     156.256 107.928 -20.286  1.00 37.24      A16S
ATOM  11731  C1* G   A 568     156.879 106.935 -21.074  1.00 37.24      A16S
ATOM  11732  N9  G   A 568     155.853 106.314 -21.922  1.00 30.63      A16S
ATOM  11733  C4  G   A 568     156.033 105.370 -22.908  1.00 30.63      A16S
ATOM  11734  N3  G   A 568     157.208 104.850 -23.305  1.00 30.63      A16S
ATOM  11735  C2  G   A 568     157.056 103.955 -24.263  1.00 30.63      A16S
ATOM  11736  N2  G   A 568     158.125 103.336 -24.776  1.00 30.63      A16S
ATOM  11737  N1  G   A 568     155.847 103.603 -24.788  1.00 30.63      A16S
ATOM  11738  C6  G   A 568     154.626 104.126 -24.399  1.00 30.63      A16S
ATOM  11739  O6  G   A 568     153.593 103.734 -24.945  1.00 30.63      A16S
ATOM  11740  C5  G   A 568     154.773 105.082 -23.375  1.00 30.63      A16S
ATOM  11741  N7  G   A 568     153.821 105.829 -22.713  1.00 30.63      A16S
ATOM  11742  C8  G   A 568     154.503 106.548 -21.868  1.00 30.63      A16S
ATOM  11743  C2* G   A 568     158.040 107.617 -21.797  1.00 37.24      A16S
ATOM  11744  O2* G   A 568     159.157 107.544 -20.938  1.00 37.24      A16S
ATOM  11745  C3* G   A 568     157.552 109.056 -21.888  1.00 37.24      A16S
ATOM  11746  O3* G   A 568     158.617 109.996 -21.988  1.00 37.24      A16S
ATOM  11747  P   C   A 569     158.908 110.714 -23.399  1.00 33.30      A16S
ATOM  11748  O1P C   A 569     159.894 111.805 -23.192  1.00 18.65      A16S
ATOM  11749  O2P C   A 569     157.586 111.008 -24.043  1.00 18.65      A16S
ATOM  11750  O5* C   A 569     159.604 109.582 -24.274  1.00 33.30      A16S
ATOM  11751  C5* C   A 569     160.903 109.071 -23.946  1.00 33.30      A16S
ATOM  11752  C4* C   A 569     161.388 108.194 -25.059  1.00 33.30      A16S
ATOM  11753  O4* C   A 569     160.631 106.967 -25.059  1.00 33.30      A16S
ATOM  11754  C1* C   A 569     160.345 106.584 -26.387  1.00 33.30      A16S
ATOM  11755  N1  C   A 569     158.887 106.455 -26.521  1.00 18.65      A16S
ATOM  11756  C6  C   A 569     158.060 107.177 -25.715  1.00 18.65      A16S
ATOM  11757  C2  C   A 569     158.348 105.562 -27.472  1.00 18.65      A16S
ATOM  11758  O2  C   A 569     159.113 104.922 -28.210  1.00 18.65      A16S
ATOM  11759  N3  C   A 569     157.000 105.419 -27.554  1.00 18.65      A16S
ATOM  11760  C4  C   A 569     156.207 106.115 -26.734  1.00 18.65      A16S
ATOM  11761  N4  C   A 569     154.889 105.927 -26.816  1.00 18.65      A16S
ATOM  11762  C5  C   A 569     156.732 107.035 -25.780  1.00 18.65      A16S
ATOM  11763  C2* C   A 569     161.000 107.597 -27.328  1.00 33.30      A16S
ATOM  11764  O2* C   A 569     162.239 107.070 -27.754  1.00 33.30      A16S
ATOM  11765  C3* C   A 569     161.170 108.810 -26.425  1.00 33.30      A16S
ATOM  11766  O3* C   A 569     162.307 109.588 -26.776  1.00 33.30      A16S
ATOM  11767  P   G   A 570     162.140 110.884 -27.712  1.00 30.52      A16S
ATOM  11768  O1P G   A 570     161.786 112.011 -26.806  1.00 39.29      A16S
ATOM  11769  O2P G   A 570     161.252 110.557 -28.877  1.00 39.29      A16S
ATOM  11770  O5* G   A 570     163.609 111.130 -28.281  1.00 30.52      A16S
ATOM  11771  C5* G   A 570     164.006 110.613 -29.580  1.00 30.52      A16S
ATOM  11772  C4* G   A 570     165.271 111.289 -30.045  1.00 30.52      A16S
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ATOM  11773  O4*  G   A 570     165.030 112.713 -30.163  1.00 30.52      A16S
ATOM  11774  C1*  G   A 570     166.130 113.437 -29.652  1.00 30.52      A16S
ATOM  11775  N9   G   A 570     165.630 114.329 -28.600  1.00 39.29      A16S
ATOM  11776  C4   G   A 570     166.348 115.044 -27.659  1.00 39.29      A16S
ATOM  11777  N3   G   A 570     167.679 115.050 -27.512  1.00 39.29      A16S
ATOM  11778  C2   G   A 570     168.063 115.839 -26.534  1.00 39.29      A16S
ATOM  11779  N2   G   A 570     169.363 115.963 -26.239  1.00 39.29      A16S
ATOM  11780  N1   G   A 570     167.212 116.565 -25.767  1.00 39.29      A16S
ATOM  11781  C6   G   A 570     165.839 116.579 -25.897  1.00 39.29      A16S
ATOM  11782  O6   G   A 570     165.157 117.282 -25.137  1.00 39.29      A16S
ATOM  11783  C5   G   A 570     165.412 115.739 -26.936  1.00 39.29      A16S
ATOM  11784  N7   G   A 570     164.135 115.473 -27.396  1.00 39.29      A16S
ATOM  11785  C8   G   A 570     164.313 114.633 -28.376  1.00 39.29      A16S
ATOM  11786  C2*  G   A 570     167.221 112.422 -29.282  1.00 30.52      A16S
ATOM  11787  O2*  G   A 570     168.121 112.305 -30.363  1.00 30.52      A16S
ATOM  11788  C3*  G   A 570     166.422 111.143 -29.071  1.00 30.52      A16S
ATOM  11789  O3*  G   A 570     167.162 109.980 -29.419  1.00 30.52      A16S
ATOM  11790  P    U   A 571     167.450 108.853 -28.316  1.00 21.12      A16S
ATOM  11791  O1P  U   A 571     167.882 107.599 -28.977  1.00 42.15      A16S
ATOM  11792  O2P  U   A 571     166.311 108.825 -27.377  1.00 42.15      A16S
ATOM  11793  O5*  U   A 571     168.692 109.429 -27.523  1.00 21.12      A16S
ATOM  11794  C5*  U   A 571     169.961 109.558 -28.158  1.00 21.12      A16S
ATOM  11795  C4*  U   A 571     170.884 110.369 -27.297  1.00 21.12      A16S
ATOM  11796  O4*  U   A 571     170.457 111.755 -27.283  1.00 21.12      A16S
ATOM  11797  C1*  U   A 571     170.705 112.306 -26.003  1.00 21.12      A16S
ATOM  11798  N1   U   A 571     169.429 112.737 -25.410  1.00 42.15      A16S
ATOM  11799  C6   U   A 571     168.231 112.224 -25.827  1.00 42.15      A16S
ATOM  11800  C2   U   A 571     169.479 113.699 -24.427  1.00 42.15      A16S
ATOM  11801  O2   U   A 571     170.525 114.156 -23.998  1.00 42.15      A16S
ATOM  11802  N3   U   A 571     168.261 114.112 -23.964  1.00 42.15      A16S
ATOM  11803  C4   U   A 571     167.032 113.671 -24.369  1.00 42.15      A16S
ATOM  11804  O4   U   A 571     166.027 114.242 -23.961  1.00 42.15      A16S
ATOM  11805  C5   U   A 571     167.065 112.648 -25.354  1.00 42.15      A16S
ATOM  11806  C2*  U   A 571     171.403 111.238 -25.168  1.00 21.12      A16S
ATOM  11807  O2*  U   A 571     172.795 111.431 -25.319  1.00 21.12      A16S
ATOM  11808  C3*  U   A 571     170.917 109.962 -25.838  1.00 21.12      A16S
ATOM  11809  O3*  U   A 571     171.773 108.868 -25.619  1.00 21.12      A16S
ATOM  11810  P    A   A 572     171.154 107.457 -25.172  1.00 28.46      A16S
ATOM  11811  O1P  A   A 572     172.245 106.434 -25.365  1.00 50.15      A16S
ATOM  11812  O2P  A   A 572     169.825 107.258 -25.810  1.00 50.15      A16S
ATOM  11813  O5*  A   A 572     170.929 107.576 -23.608  1.00 28.46      A16S
ATOM  11814  C5*  A   A 572     169.876 108.369 -23.055  1.00 28.46      A16S
ATOM  11815  C4*  A   A 572     169.649 107.946 -21.636  1.00 28.46      A16S
ATOM  11816  O4*  A   A 572     168.827 108.869 -20.910  1.00 28.46      A16S
ATOM  11817  C1*  A   A 572     168.320 108.205 -19.774  1.00 28.46      A16S
ATOM  11818  N9   A   A 572     167.037 108.815 -19.420  1.00 50.15      A16S
ATOM  11819  C4   A   A 572     166.935 110.023 -18.770  1.00 50.15      A16S
ATOM  11820  N3   A   A 572     167.938 110.782 -18.309  1.00 50.15      A16S
ATOM  11821  C2   A   A 572     167.475 111.907 -17.801  1.00 50.15      A16S
ATOM  11822  N1   A   A 572     166.227 112.334 -17.710  1.00 50.15      A16S
ATOM  11823  C6   A   A 572     165.245 111.553 -18.179  1.00 50.15      A16S
ATOM  11824  N6   A   A 572     164.004 112.000 -18.105  1.00 50.15      A16S
ATOM  11825  C5   A   A 572     165.596 110.322 -18.731  1.00 50.15      A16S
ATOM  11826  N7   A   A 572     164.848 109.295 -19.289  1.00 50.15      A16S
ATOM  11827  C8   A   A 572     165.749 108.418 -19.671  1.00 50.15      A16S
ATOM  11828  C2*  A   A 572     168.420 106.694 -20.026  1.00 28.46      A16S
ATOM  11829  O2*  A   A 572     169.343 106.156 -19.101  1.00 28.46      A16S
ATOM  11830  C3*  A   A 572     168.940 106.627 -21.469  1.00 28.46      A16S
ATOM  11831  O3*  A   A 572     169.910 105.605 -21.669  1.00 28.46      A16S
ATOM  11832  P    A   A 573     169.581 104.378 -22.643  1.00 27.83      A16S
ATOM  11833  O1P  A   A 573     170.863 103.802 -23.102  1.00 36.81      A16S
ATOM  11834  O2P  A   A 573     168.614 104.888 -23.651  1.00 36.81      A16S
ATOM  11835  O5*  A   A 573     168.844 103.358 -21.656  1.00 27.83      A16S
ATOM  11836  C5*  A   A 573     168.946 101.931 -21.816  1.00 27.83      A16S
ATOM  11837  C4*  A   A 573     167.583 101.334 -22.105  1.00 27.83      A16S
ATOM  11838  O4*  A   A 573     166.696 101.489 -20.969  1.00 27.83      A16S
ATOM  11839  C1*  A   A 573     165.382 101.774 -21.427  1.00 27.83      A16S
ATOM  11840  N9   A   A 573     164.974 103.057 -20.846  1.00 36.81      A16S
ATOM  11841  C4   A   A 573     163.746 103.396 -20.336  1.00 36.81      A16S
ATOM  11842  N3   A   A 573     162.639 102.654 -20.325  1.00 36.81      A16S
ATOM  11843  C2   A   A 573     161.657 103.299 -19.719  1.00 36.81      A16S
ATOM  11844  N1   A   A 573     161.658 104.504 -19.151  1.00 36.81      A16S
ATOM  11845  C6   A   A 573     162.793 105.218 -19.169  1.00 36.81      A16S
ATOM  11846  N6   A   A 573     162.812 106.404 -18.565  1.00 36.81      A16S
ATOM  11847  C5   A   A 573     163.893 104.663 -19.807  1.00 36.81      A16S
ATOM  11848  N7   A   A 573     165.169 105.141 -20.024  1.00 36.81      A16S
ATOM  11849  C8   A   A 573     165.769 104.158 -20.649  1.00 36.81      A16S
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ATOM  11850  C2* A   A 573     165.385 101.710 -22.958  1.00 27.83      A16S
ATOM  11851  O2* A   A 573     164.982 100.416 -23.348  1.00 27.83      A16S
ATOM  11852  C3* A   A 573     166.853 101.957 -23.286  1.00 27.83      A16S
ATOM  11853  O3* A   A 573     167.258 101.272 -24.465  1.00 27.83      A16S
ATOM  11854  P   A   A 574     167.304 102.042 -25.871  1.00 17.08      A16S
ATOM  11855  O1P A   A 574     168.011 101.149 -26.819  1.00 40.41      A16S
ATOM  11856  O2P A   A 574     167.789 103.428 -25.678  1.00 40.41      A16S
ATOM  11857  O5* A   A 574     165.778 102.068 -26.309  1.00 17.08      A16S
ATOM  11858  C5* A   A 574     165.008 100.848 -26.342  1.00 17.08      A16S
ATOM  11859  C4* A   A 574     163.542 101.157 -26.496  1.00 17.08      A16S
ATOM  11860  O4* A   A 574     163.026 101.725 -25.273  1.00 17.08      A16S
ATOM  11861  C1* A   A 574     162.117 102.754 -25.576  1.00 17.08      A16S
ATOM  11862  N9  A   A 574     162.570 103.954 -24.882  1.00 40.41      A16S
ATOM  11863  C4  A   A 574     161.959 104.532 -23.802  1.00 40.41      A16S
ATOM  11864  N3  A   A 574     160.813 104.159 -23.222  1.00 40.41      A16S
ATOM  11865  C2  A   A 574     160.550 104.929 -22.188  1.00 40.41      A16S
ATOM  11866  N1  A   A 574     161.251 105.941 -21.696  1.00 40.41      A16S
ATOM  11867  C6  A   A 574     162.402 106.281 -22.295  1.00 40.41      A16S
ATOM  11868  N6  A   A 574     163.122 107.271 -21.780  1.00 40.41      A16S
ATOM  11869  C5  A   A 574     162.781 105.564 -23.413  1.00 40.41      A16S
ATOM  11870  N7  A   A 574     163.872 105.671 -24.256  1.00 40.41      A16S
ATOM  11871  C8  A   A 574     163.694 104.700 -25.116  1.00 40.41      A16S
ATOM  11872  C2* A   A 574     161.990 102.852 -27.098  1.00 17.08      A16S
ATOM  11873  O2* A   A 574     160.853 102.133 -27.503  1.00 17.08      A16S
ATOM  11874  C3* A   A 574     163.266 102.174 -27.578  1.00 17.08      A16S
ATOM  11875  O3* A   A 574     163.084 101.487 -28.811  1.00 17.08      A16S
ATOM  11876  P   G   A 575     163.871 101.977 -30.120  1.00 33.65      A16S
ATOM  11877  O1P G   A 575     163.451 101.167 -31.299  1.00 29.90      A16S
ATOM  11878  O2P G   A 575     165.300 102.089 -29.757  1.00 29.90      A16S
ATOM  11879  O5* G   A 575     163.322 103.440 -30.368  1.00 33.65      A16S
ATOM  11880  C5* G   A 575     161.954 103.638 -30.731  1.00 33.65      A16S
ATOM  11881  C4* G   A 575     161.793 103.404 -32.196  1.00 33.65      A16S
ATOM  11882  O4* G   A 575     160.407 103.506 -32.566  1.00 33.65      A16S
ATOM  11883  C1* G   A 575     160.182 104.602 -33.422  1.00 33.65      A16S
ATOM  11884  N9  G   A 575     159.043 105.294 -32.832  1.00 29.90      A16S
ATOM  11885  C4  G   A 575     157.722 105.129 -33.173  1.00 29.90      A16S
ATOM  11886  N3  G   A 575     157.258 104.410 -34.205  1.00 29.90      A16S
ATOM  11887  C2  G   A 575     155.941 104.389 -34.237  1.00 29.90      A16S
ATOM  11888  N2  G   A 575     155.302 103.745 -35.228  1.00 29.90      A16S
ATOM  11889  N1  G   A 575     155.147 105.003 -33.314  1.00 29.90      A16S
ATOM  11890  C6  G   A 575     155.602 105.744 -32.240  1.00 29.90      A16S
ATOM  11891  O6  G   A 575     154.791 106.244 -31.459  1.00 29.90      A16S
ATOM  11892  C5  G   A 575     157.009 105.802 -32.211  1.00 29.90      A16S
ATOM  11893  N7  G   A 575     157.859 106.446 -31.330  1.00 29.90      A16S
ATOM  11894  C8  G   A 575     159.056 106.137 -31.752  1.00 29.90      A16S
ATOM  11895  C2* G   A 575     161.479 105.398 -33.501  1.00 33.65      A16S
ATOM  11896  O2* G   A 575     161.665 105.968 -34.773  1.00 33.65      A16S
ATOM  11897  C3* G   A 575     162.539 104.382 -33.052  1.00 33.65      A16S
ATOM  11898  O3* G   A 575     163.512 103.662 -33.846  1.00 33.65      A16S
ATOM  11899  P   G   A 576     163.170 103.035 -35.289  1.00 23.65      A16S
ATOM  11900  O1P G   A 576     164.355 102.161 -35.464  1.00 42.73      A16S
ATOM  11901  O2P G   A 576     162.846 104.065 -36.325  1.00 42.73      A16S
ATOM  11902  O5* G   A 576     161.930 102.065 -35.084  1.00 23.65      A16S
ATOM  11903  C5* G   A 576     162.111 100.733 -34.574  1.00 23.65      A16S
ATOM  11904  C4* G   A 576     161.608  99.695 -35.566  1.00 23.65      A16S
ATOM  11905  O4* G   A 576     160.170  99.489 -35.481  1.00 23.65      A16S
ATOM  11906  C1* G   A 576     159.631  99.425 -36.781  1.00 23.65      A16S
ATOM  11907  N9  G   A 576     158.295 100.006 -36.762  1.00 42.73      A16S
ATOM  11908  C4  G   A 576     157.120  99.428 -37.193  1.00 42.73      A16S
ATOM  11909  N3  G   A 576     156.970  98.181 -37.666  1.00 42.73      A16S
ATOM  11910  C2  G   A 576     155.724  97.941 -38.041  1.00 42.73      A16S
ATOM  11911  N2  G   A 576     155.389  96.749 -38.528  1.00 42.73      A16S
ATOM  11912  N1  G   A 576     154.714  98.848 -37.969  1.00 42.73      A16S
ATOM  11913  C6  G   A 576     154.848 100.143 -37.497  1.00 42.73      A16S
ATOM  11914  O6  G   A 576     153.872 100.910 -37.508  1.00 42.73      A16S
ATOM  11915  C5  G   A 576     156.170 100.408 -37.070  1.00 42.73      A16S
ATOM  11916  N7  G   A 576     156.717 101.558 -36.532  1.00 42.73      A16S
ATOM  11917  C8  G   A 576     157.974 101.269 -36.355  1.00 42.73      A16S
ATOM  11918  C2* G   A 576     160.597 100.220 -37.663  1.00 23.65      A16S
ATOM  11919  O2* G   A 576     160.517  99.794 -39.011  1.00 23.65      A16S
ATOM  11920  C3* G   A 576     161.948  99.891 -37.037  1.00 23.65      A16S
ATOM  11921  O3* G   A 576     162.387  98.661 -37.580  1.00 23.65      A16S
ATOM  11922  P   G   A 577     163.933  98.458 -37.952  1.00 35.20      A16S
ATOM  11923  O1P G   A 577     164.028  97.066 -38.463  1.00 18.09      A16S
ATOM  11924  O2P G   A 577     164.743  98.871 -36.790  1.00 18.09      A16S
ATOM  11925  O5* G   A 577     164.200  99.460 -39.154  1.00 35.20      A16S
ATOM  11926  C5* G   A 577     164.951 100.656 -38.954  1.00 35.20      A16S
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ATOM  11927  C4* G   A 577     165.221 101.300 -40.276  1.00 35.20      A16S
ATOM  11928  O4* G   A 577     165.908 100.326 -41.094  1.00 35.20      A16S
ATOM  11929  C1* G   A 577     165.470 100.429 -42.426  1.00 35.20      A16S
ATOM  11930  N9  G   A 577     164.857  99.171 -42.816  1.00 18.09      A16S
ATOM  11931  C4  G   A 577     164.371  98.900 -44.060  1.00 18.09      A16S
ATOM  11932  N3  G   A 577     164.370  99.755 -45.099  1.00 18.09      A16S
ATOM  11933  C2  G   A 577     163.841  99.218 -46.171  1.00 18.09      A16S
ATOM  11934  N2  G   A 577     163.742  99.945 -47.293  1.00 18.09      A16S
ATOM  11935  N1  G   A 577     163.365  97.939 -46.220  1.00 18.09      A16S
ATOM  11936  C6  G   A 577     163.365  97.048 -45.161  1.00 18.09      A16S
ATOM  11937  O6  G   A 577     162.922  95.919 -45.320  1.00 18.09      A16S
ATOM  11938  C5  G   A 577     163.912  97.615 -44.005  1.00 18.09      A16S
ATOM  11939  N7  G   A 577     164.090  97.084 -42.738  1.00 18.09      A16S
ATOM  11940  C8  G   A 577     164.654  98.047 -42.063  1.00 18.09      A16S
ATOM  11941  C2* G   A 577     164.458 101.562 -42.509  1.00 35.20      A16S
ATOM  11942  O2* G   A 577     165.106 102.729 -42.952  1.00 35.20      A16S
ATOM  11943  C3* G   A 577     163.973 101.627 -41.074  1.00 35.20      A16S
ATOM  11944  O3* G   A 577     163.406 102.880 -40.740  1.00 35.20      A16S
ATOM  11945  P   C   A 578     161.807 103.038 -40.748  1.00 27.12      A16S
ATOM  11946  O1P C   A 578     161.532 104.321 -40.051  1.00 22.22      A16S
ATOM  11947  O2P C   A 578     161.204 101.777 -40.239  1.00 22.22      A16S
ATOM  11948  O5* C   A 578     161.423 103.151 -42.294  1.00 27.12      A16S
ATOM  11949  C5* C   A 578     161.824 104.288 -43.059  1.00 27.12      A16S
ATOM  11950  C4* C   A 578     161.546 104.075 -44.529  1.00 27.12      A16S
ATOM  11951  O4* C   A 578     162.220 102.876 -44.979  1.00 27.12      A16S
ATOM  11952  C1* C   A 578     161.482 102.284 -46.031  1.00 27.12      A16S
ATOM  11953  N1  C   A 578     161.105 100.924 -45.623  1.00 22.22      A16S
ATOM  11954  C6  C   A 578     161.243 100.524 -44.328  1.00 22.22      A16S
ATOM  11955  C2  C   A 578     160.602 100.042 -46.583  1.00 22.22      A16S
ATOM  11956  O2  C   A 578     160.490 100.426 -47.743  1.00 22.22      A16S
ATOM  11957  N3  C   A 578     160.253  98.797 -46.220  1.00 22.22      A16S
ATOM  11958  C4  C   A 578     160.387  98.417 -44.949  1.00 22.22      A16S
ATOM  11959  N4  C   A 578     160.012  97.175 -44.616  1.00 22.22      A16S
ATOM  11960  C5  C   A 578     160.905  99.291 -43.953  1.00 22.22      A16S
ATOM  11961  C2* C   A 578     160.265 103.165 -46.298  1.00 27.12      A16S
ATOM  11962  O2* C   A 578     160.556 104.063 -47.344  1.00 27.12      A16S
ATOM  11963  C3* C   A 578     160.106 103.888 -44.971  1.00 27.12      A16S
ATOM  11964  O3* C   A 578     159.427 105.119 -45.175  1.00 27.12      A16S
ATOM  11965  P   G   A 579     157.837 105.199 -44.910  1.00 37.01      A16S
ATOM  11966  O1P G   A 579     157.521 106.656 -44.905  1.00 32.53      A16S
ATOM  11967  O2P G   A 579     157.472 104.350 -43.726  1.00 32.53      A16S
ATOM  11968  O5* G   A 579     157.149 104.492 -46.164  1.00 37.01      A16S
ATOM  11969  C5* G   A 579     157.131 105.123 -47.438  1.00 37.01      A16S
ATOM  11970  C4* G   A 579     156.995 104.096 -48.520  1.00 37.01      A16S
ATOM  11971  O4* G   A 579     157.654 102.887 -48.086  1.00 37.01      A16S
ATOM  11972  C1* G   A 579     157.113 101.790 -48.781  1.00 37.01      A16S
ATOM  11973  N9  G   A 579     156.891 100.689 -47.852  1.00 32.53      A16S
ATOM  11974  C4  G   A 579     156.425  99.440 -48.169  1.00 32.53      A16S
ATOM  11975  N3  G   A 579     156.102  99.004 -49.403  1.00 32.53      A16S
ATOM  11976  C2  G   A 579     155.665  97.752 -49.389  1.00 32.53      A16S
ATOM  11977  N2  G   A 579     155.327  97.147 -50.534  1.00 32.53      A16S
ATOM  11978  N1  G   A 579     155.533  96.999 -48.250  1.00 32.53      A16S
ATOM  11979  C6  G   A 579     155.845  97.434 -46.967  1.00 32.53      A16S
ATOM  11980  O6  G   A 579     155.648  96.686 -45.997  1.00 32.53      A16S
ATOM  11981  C5  G   A 579     156.349  98.763 -46.975  1.00 32.53      A16S
ATOM  11982  N7  G   A 579     156.787  99.558 -45.932  1.00 32.53      A16S
ATOM  11983  C8  G   A 579     157.097 100.690 -46.499  1.00 32.53      A16S
ATOM  11984  C2* G   A 579     155.866 102.277 -49.518  1.00 37.01      A16S
ATOM  11985  O2* G   A 579     156.214 102.471 -50.871  1.00 37.01      A16S
ATOM  11986  C3* G   A 579     155.596 103.619 -48.855  1.00 37.01      A16S
ATOM  11987  O3* G   A 579     154.983 104.502 -49.797  1.00 37.01      A16S
ATOM  11988  P   U   A 580     153.379 104.725 -49.776  1.00 32.74      A16S
ATOM  11989  O1P U   A 580     153.065 105.731 -50.831  1.00 38.25      A16S
ATOM  11990  O2P U   A 580     152.954 104.988 -48.366  1.00 38.25      A16S
ATOM  11991  O5* U   A 580     152.784 103.306 -50.193  1.00 32.74      A16S
ATOM  11992  C5* U   A 580     152.500 102.999 -51.554  1.00 32.74      A16S
ATOM  11993  C4* U   A 580     152.072 101.560 -51.683  1.00 32.74      A16S
ATOM  11994  O4* U   A 580     153.037 100.729 -50.997  1.00 32.74      A16S
ATOM  11995  C1* U   A 580     152.414  99.546 -50.548  1.00 32.74      A16S
ATOM  11996  N1  U   A 580     152.632  99.402 -49.103  1.00 38.25      A16S
ATOM  11997  C6  U   A 580     153.160 100.410 -48.335  1.00 38.25      A16S
ATOM  11998  C2  U   A 580     152.275  98.195 -48.538  1.00 38.25      A16S
ATOM  11999  O2  U   A 580     151.822  97.272 -49.191  1.00 38.25      A16S
ATOM  12000  N3  U   A 580     152.470  98.099 -47.184  1.00 38.25      A16S
ATOM  12001  C4  U   A 580     152.988  99.061 -46.352  1.00 38.25      A16S
ATOM  12002  O4  U   A 580     153.141  98.803 -45.149  1.00 38.25      A16S
ATOM  12003  C5  U   A 580     153.346 100.286 -47.014  1.00 38.25      A16S
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ATOM  12004  C2* U   A 580     150.938  99.636 -50.910  1.00 32.74      A16S
ATOM  12005  O2* U   A 580     150.729  98.943 -52.126  1.00 32.74      A16S
ATOM  12006  C3* U   A 580     150.753 101.137 -51.056  1.00 32.74      A16S
ATOM  12007  O3* U   A 580     149.630 101.442 -51.867  1.00 32.74      A16S
ATOM  12008  P    G   A 581     148.344 102.102 -51.190  1.00 36.14      A16S
ATOM  12009  O1P G   A 581     147.405 102.473 -52.269  1.00 40.72      A16S
ATOM  12010  O2P G   A 581     148.815 103.136 -50.244  1.00 40.72      A16S
ATOM  12011  O5* G   A 581     147.731 100.917 -50.326  1.00 36.14      A16S
ATOM  12012  C5* G   A 581     147.141  99.782 -50.971  1.00 36.14      A16S
ATOM  12013  C4* G   A 581     147.270  98.553 -50.106  1.00 36.14      A16S
ATOM  12014  O4* G   A 581     148.601  98.541 -49.548  1.00 36.14      A16S
ATOM  12015  C1* G   A 581     148.594  97.895 -48.291  1.00 36.14      A16S
ATOM  12016  N9   G   A 581     149.109  98.819 -47.287  1.00 40.72      A16S
ATOM  12017  C4   G   A 581     149.474  98.485 -46.017  1.00 40.72      A16S
ATOM  12018  N3   G   A 581     149.426  97.254 -45.491  1.00 40.72      A16S
ATOM  12019  C2   G   A 581     149.787  97.250 -44.226  1.00 40.72      A16S
ATOM  12020  N2   G   A 581     149.762  96.110 -43.530  1.00 40.72      A16S
ATOM  12021  N1   G   A 581     150.188  98.359 -43.545  1.00 40.72      A16S
ATOM  12022  C6   G   A 581     150.253  99.637 -44.074  1.00 40.72      A16S
ATOM  12023  O6   G   A 581     150.627 100.579 -43.364  1.00 40.72      A16S
ATOM  12024  C5   G   A 581     149.852  99.661 -45.420  1.00 40.72      A16S
ATOM  12025  N7   G   A 581     149.744 100.724 -46.305  1.00 40.72      A16S
ATOM  12026  C8   G   A 581     149.306 100.177 -47.405  1.00 40.72      A16S
ATOM  12027  C2* G   A 581     147.162  97.457 -48.008  1.00 36.14      A16S
ATOM  12028  O2* G   A 581     147.059  96.100 -48.394  1.00 36.14      A16S
ATOM  12029  C3* G   A 581     146.365  98.417 -48.893  1.00 36.14      A16S
ATOM  12030  O3* G   A 581     145.091  97.888 -49.265  1.00 36.14      A16S
ATOM  12031  P    U   A 582     143.798  98.142 -48.325  1.00 37.01      A16S
ATOM  12032  O1P U   A 582     142.660  98.247 -49.254  1.00 32.67      A16S
ATOM  12033  O2P U   A 582     144.062  99.237 -47.359  1.00 32.67      A16S
ATOM  12034  O5* U   A 582     143.639  96.773 -47.538  1.00 37.01      A16S
ATOM  12035  C5* U   A 582     143.614  95.555 -48.276  1.00 37.01      A16S
ATOM  12036  C4* U   A 582     143.409  94.383 -47.366  1.00 37.01      A16S
ATOM  12037  O4* U   A 582     144.658  93.892 -46.845  1.00 37.01      A16S
ATOM  12038  C1* U   A 582     144.431  93.309 -45.580  1.00 37.01      A16S
ATOM  12039  N1   U   A 582     145.212  94.045 -44.587  1.00 32.67      A16S
ATOM  12040  C6   U   A 582     145.652  95.313 -44.828  1.00 32.67      A16S
ATOM  12041  C2   U   A 582     145.467  93.415 -43.399  1.00 32.67      A16S
ATOM  12042  O2   U   A 582     145.124  92.281 -43.171  1.00 32.67      A16S
ATOM  12043  N3   U   A 582     146.147  94.159 -42.488  1.00 32.67      A16S
ATOM  12044  C4   U   A 582     146.602  95.442 -42.652  1.00 32.67      A16S
ATOM  12045  O4   U   A 582     147.165  96.007 -41.713  1.00 32.67      A16S
ATOM  12046  C5   U   A 582     146.321  96.014 -43.930  1.00 32.67      A16S
ATOM  12047  C2* U   A 582     142.942  93.432 -45.270  1.00 37.01      A16S
ATOM  12048  O2* U   A 582     142.280  92.243 -45.651  1.00 37.01      A16S
ATOM  12049  C3* U   A 582     142.552  94.608 -46.145  1.00 37.01      A16S
ATOM  12050  O3* U   A 582     141.187  94.583 -46.467  1.00 37.01      A16S
ATOM  12051  P    A   A 583     140.146  95.319 -45.509  1.00 33.99      A16S
ATOM  12052  O1P A   A 583     138.850  94.973 -46.108  1.00 23.66      A16S
ATOM  12053  O2P A   A 583     140.509  96.753 -45.286  1.00 23.66      A16S
ATOM  12054  O5* A   A 583     140.275  94.520 -44.144  1.00 33.99      A16S
ATOM  12055  C5* A   A 583     139.795  93.175 -44.052  1.00 33.99      A16S
ATOM  12056  C4* A   A 583     139.991  92.661 -42.661  1.00 33.99      A16S
ATOM  12057  O4* A   A 583     141.403  92.573 -42.395  1.00 33.99      A16S
ATOM  12058  C1* A   A 583     141.670  92.994 -41.075  1.00 33.99      A16S
ATOM  12059  N9   A   A 583     142.490  94.199 -41.143  1.00 23.66      A16S
ATOM  12060  C4   A   A 583     143.297  94.691 -40.146  1.00 23.66      A16S
ATOM  12061  N3   A   A 583     143.501  94.166 -38.927  1.00 23.66      A16S
ATOM  12062  C2   A   A 583     144.343  94.923 -38.230  1.00 23.66      A16S
ATOM  12063  N1   A   A 583     144.960  96.060 -38.585  1.00 23.66      A16S
ATOM  12064  C6   A   A 583     144.728  96.556 -39.822  1.00 23.66      A16S
ATOM  12065  N6   A   A 583     145.334  97.685 -40.189  1.00 23.66      A16S
ATOM  12066  C5   A   A 583     143.857  95.848 -40.655  1.00 23.66      A16S
ATOM  12067  N7   A   A 583     143.420  96.076 -41.949  1.00 23.66      A16S
ATOM  12068  C8   A   A 583     142.614  95.074 -42.192  1.00 23.66      A16S
ATOM  12069  C2* A   A 583     140.334  93.267 -40.403  1.00 33.99      A16S
ATOM  12070  O2* A   A 583     139.939  92.096 -39.733  1.00 33.99      A16S
ATOM  12071  C3* A   A 583     139.455  93.590 -41.598  1.00 33.99      A16S
ATOM  12072  O3* A   A 583     138.081  93.347 -41.363  1.00 33.99      A16S
ATOM  12073  P    G   A 584     137.133  94.548 -40.876  1.00 30.67      A16S
ATOM  12074  O1P G   A 584     135.897  93.886 -40.361  1.00 31.58      A16S
ATOM  12075  O2P G   A 584     137.037  95.595 -41.954  1.00 31.58      A16S
ATOM  12076  O5* G   A 584     137.878  95.149 -39.603  1.00 30.67      A16S
ATOM  12077  C5* G   A 584     137.962  94.380 -38.396  1.00 30.67      A16S
ATOM  12078  C4* G   A 584     138.872  95.047 -37.402  1.00 30.67      A16S
ATOM  12079  O4* G   A 584     140.198  95.170 -37.965  1.00 30.67      A16S
ATOM  12080  C1* G   A 584     140.813  96.348 -37.486  1.00 30.67      A16S
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ATOM  12081  N9  G   A 584     141.153  97.188 -38.628  1.00 31.58      A16S
ATOM  12082  C4  G   A 584     141.951  98.307 -38.619  1.00 31.58      A16S
ATOM  12083  N3  G   A 584     142.589  98.819 -37.549  1.00 31.58      A16S
ATOM  12084  C2  G   A 584     143.273  99.901 -37.857  1.00 31.58      A16S
ATOM  12085  N2  G   A 584     143.990 100.523 -36.918  1.00 31.58      A16S
ATOM  12086  N1  G   A 584     143.310 100.448 -39.109  1.00 31.58      A16S
ATOM  12087  C6  G   A 584     142.656  99.939 -40.224  1.00 31.58      A16S
ATOM  12088  O6  G   A 584     142.744 100.519 -41.314  1.00 31.58      A16S
ATOM  12089  C5  G   A 584     141.941  98.770 -39.912  1.00 31.58      A16S
ATOM  12090  N7  G   A 584     141.175  97.951 -40.722  1.00 31.58      A16S
ATOM  12091  C8  G   A 584     140.730  97.027 -39.920  1.00 31.58      A16S
ATOM  12092  C2* G   A 584     139.834  97.011 -36.519  1.00 30.67      A16S
ATOM  12093  O2* G   A 584     140.113  96.529 -35.228  1.00 30.67      A16S
ATOM  12094  C3* G   A 584     138.504  96.457 -36.993  1.00 30.67      A16S
ATOM  12095  O3* G   A 584     137.551  96.454 -35.947  1.00 30.67      A16S
ATOM  12096  P   G   A 585     136.672  97.771 -35.679  1.00 27.02      A16S
ATOM  12097  O1P G   A 585     135.780  97.433 -34.557  1.00 22.61      A16S
ATOM  12098  O2P G   A 585     136.085  98.265 -36.947  1.00 22.61      A16S
ATOM  12099  O5* G   A 585     137.726  98.855 -35.175  1.00 27.02      A16S
ATOM  12100  C5* G   A 585     138.226  98.806 -33.830  1.00 27.02      A16S
ATOM  12101  C4* G   A 585     139.127  99.975 -33.565  1.00 27.02      A16S
ATOM  12102  O4* G   A 585     140.205  99.920 -34.511  1.00 27.02      A16S
ATOM  12103  C1* G   A 585     140.536 101.225 -34.936  1.00 27.02      A16S
ATOM  12104  N9  G   A 585     140.324 101.289 -36.376  1.00 22.61      A16S
ATOM  12105  C4  G   A 585     140.842 102.224 -37.235  1.00 22.61      A16S
ATOM  12106  N3  G   A 585     141.596 103.285 -36.888  1.00 22.61      A16S
ATOM  12107  C2  G   A 585     141.980 103.985 -37.938  1.00 22.61      A16S
ATOM  12108  N2  G   A 585     142.738 105.074 -37.775  1.00 22.61      A16S
ATOM  12109  N1  G   A 585     141.652 103.675 -39.228  1.00 22.61      A16S
ATOM  12110  C6  G   A 585     140.880 102.589 -39.617  1.00 22.61      A16S
ATOM  12111  O6  G   A 585     140.653 102.395 -40.823  1.00 22.61      A16S
ATOM  12112  C5  G   A 585     140.453 101.822 -38.489  1.00 22.61      A16S
ATOM  12113  N7  G   A 585     139.673 100.675 -38.418  1.00 22.61      A16S
ATOM  12114  C8  G   A 585     139.614 100.405 -37.146  1.00 22.61      A16S
ATOM  12115  C2* G   A 585     139.695 102.201 -34.131  1.00 27.02      A16S
ATOM  12116  O2* G   A 585     140.403 102.563 -32.964  1.00 27.02      A16S
ATOM  12117  C3* G   A 585     138.502 101.335 -33.797  1.00 27.02      A16S
ATOM  12118  O3* G   A 585     137.775 101.812 -32.683  1.00 27.02      A16S
ATOM  12119  P   C   A 586     136.389 102.567 -32.944  1.00 26.22      A16S
ATOM  12120  O1P C   A 586     135.753 102.812 -31.613  1.00 30.86      A16S
ATOM  12121  O2P C   A 586     135.670 101.753 -33.960  1.00 30.86      A16S
ATOM  12122  O5* C   A 586     136.853 103.932 -33.620  1.00 26.22      A16S
ATOM  12123  C5* C   A 586     137.610 104.855 -32.859  1.00 26.22      A16S
ATOM  12124  C4* C   A 586     138.216 105.904 -33.733  1.00 26.22      A16S
ATOM  12125  O4* C   A 586     139.108 105.287 -34.689  1.00 26.22      A16S
ATOM  12126  C1* C   A 586     139.249 106.143 -35.814  1.00 26.22      A16S
ATOM  12127  N1  C   A 586     138.861 105.438 -37.035  1.00 30.86      A16S
ATOM  12128  C6  C   A 586     138.231 104.232 -36.997  1.00 30.86      A16S
ATOM  12129  C2  C   A 586     139.118 106.054 -38.246  1.00 30.86      A16S
ATOM  12130  O2  C   A 586     139.718 107.134 -38.246  1.00 30.86      A16S
ATOM  12131  N3  C   A 586     138.709 105.471 -39.386  1.00 30.86      A16S
ATOM  12132  C4  C   A 586     138.064 104.311 -39.341  1.00 30.86      A16S
ATOM  12133  N4  C   A 586     137.650 103.785 -40.488  1.00 30.86      A16S
ATOM  12134  C5  C   A 586     137.810 103.643 -38.119  1.00 30.86      A16S
ATOM  12135  C2* C   A 586     138.285 107.311 -35.630  1.00 26.22      A16S
ATOM  12136  O2* C   A 586     139.022 108.440 -35.204  1.00 26.22      A16S
ATOM  12137  C3* C   A 586     137.302 106.742 -34.608  1.00 26.22      A16S
ATOM  12138  O3* C   A 586     136.591 107.764 -33.918  1.00 26.22      A16S
ATOM  12139  P   G   A 587     135.100 108.128 -34.388  1.00 34.60      A16S
ATOM  12140  O1P G   A 587     134.571 109.113 -33.421  1.00 48.32      A16S
ATOM  12141  O2P G   A 587     134.351 106.883 -34.651  1.00 48.32      A16S
ATOM  12142  O5* G   A 587     135.308 108.851 -35.778  1.00 34.60      A16S
ATOM  12143  C5* G   A 587     136.056 110.064 -35.851  1.00 34.60      A16S
ATOM  12144  C4* G   A 587     136.034 110.577 -37.256  1.00 34.60      A16S
ATOM  12145  O4* G   A 587     136.362 109.462 -38.095  1.00 34.60      A16S
ATOM  12146  C1* G   A 587     135.822 109.681 -39.365  1.00 34.60      A16S
ATOM  12147  N9  G   A 587     135.500 108.396 -39.965  1.00 48.32      A16S
ATOM  12148  C4  G   A 587     135.400 108.141 -41.301  1.00 48.32      A16S
ATOM  12149  N3  G   A 587     135.521 109.051 -42.285  1.00 48.32      A16S
ATOM  12150  C2  G   A 587     135.396 108.507 -43.476  1.00 48.32      A16S
ATOM  12151  N2  G   A 587     135.470 109.279 -44.567  1.00 48.32      A16S
ATOM  12152  N1  G   A 587     135.183 107.167 -43.682  1.00 48.32      A16S
ATOM  12153  C6  G   A 587     135.052 106.212 -42.673  1.00 48.32      A16S
ATOM  12154  O6  G   A 587     134.857 105.021 -42.961  1.00 48.32      A16S
ATOM  12155  C5  G   A 587     135.172 106.790 -41.401  1.00 48.32      A16S
ATOM  12156  N7  G   A 587     135.100 106.210 -40.148  1.00 48.32      A16S
ATOM  12157  C8  G   A 587     135.292 107.203 -39.325  1.00 48.32      A16S
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ATOM  12158  C2* G   A 587     134.731 110.756 -39.273  1.00 34.60      A16S
ATOM  12159  O2* G   A 587     135.112 111.871 -40.068  1.00 34.60      A16S
ATOM  12160  C3* G   A 587     134.682 111.064 -37.769  1.00 34.60      A16S
ATOM  12161  O3* G   A 587     134.602 112.483 -37.504  1.00 34.60      A16S
ATOM  12162  P    G   A 588     133.309 113.339 -37.955  1.00 38.72      A16S
ATOM  12163  O1P G   A 588     133.008 114.224 -36.807  1.00 53.27      A16S
ATOM  12164  O2P G   A 588     132.242 112.445 -38.499  1.00 53.27      A16S
ATOM  12165  O5* G   A 588     133.817 114.266 -39.147  1.00 38.72      A16S
ATOM  12166  C5* G   A 588     134.749 115.322 -38.896  1.00 38.72      A16S
ATOM  12167  C4* G   A 588     134.563 116.460 -39.881  1.00 38.72      A16S
ATOM  12168  O4* G   A 588     134.721 115.965 -41.230  1.00 38.72      A16S
ATOM  12169  C1* G   A 588     134.084 116.846 -42.126  1.00 38.72      A16S
ATOM  12170  N9   G   A 588     133.277 116.078 -43.064  1.00 53.27      A16S
ATOM  12171  C4   G   A 588     132.453 116.606 -44.016  1.00 53.27      A16S
ATOM  12172  N3   G   A 588     132.237 117.914 -44.221  1.00 53.27      A16S
ATOM  12173  C2   G   A 588     131.385 118.122 -45.198  1.00 53.27      A16S
ATOM  12174  N2   G   A 588     131.050 119.373 -45.512  1.00 53.27      A16S
ATOM  12175  N1   G   A 588     130.795 117.123 -45.931  1.00 53.27      A16S
ATOM  12176  C6   G   A 588     131.000 115.766 -45.735  1.00 53.27      A16S
ATOM  12177  O6   G   A 588     130.403 114.946 -46.439  1.00 53.27      A16S
ATOM  12178  C5   G   A 588     131.916 115.529 -44.680  1.00 53.27      A16S
ATOM  12179  N7   G   A 588     132.393 114.340 -44.152  1.00 53.27      A16S
ATOM  12180  C8   G   A 588     133.194 114.715 -43.191  1.00 53.27      A16S
ATOM  12181  C2* G   A 588     133.291 117.855 -41.302  1.00 38.72      A16S
ATOM  12182  O2* G   A 588     134.044 119.045 -41.230  1.00 38.72      A16S
ATOM  12183  C3* G   A 588     133.223 117.174 -39.945  1.00 38.72      A16S
ATOM  12184  O3* G   A 588     133.078 118.151 -38.926  1.00 38.72      A16S
ATOM  12185  P    C   A 589     131.645 118.348 -38.224  1.00 38.43      A16S
ATOM  12186  O1P C   A 589     131.877 119.272 -37.081  1.00 41.89      A16S
ATOM  12187  O2P C   A 589     131.020 117.021 -37.979  1.00 41.89      A16S
ATOM  12188  O5* C   A 589     130.771 119.068 -39.341  1.00 38.43      A16S
ATOM  12189  C5* C   A 589     130.941 120.460 -39.607  1.00 38.43      A16S
ATOM  12190  C4* C   A 589     129.902 120.942 -40.581  1.00 38.43      A16S
ATOM  12191  O4* C   A 589     130.154 120.413 -41.901  1.00 38.43      A16S
ATOM  12192  C1* C   A 589     128.936 120.275 -42.591  1.00 38.43      A16S
ATOM  12193  N1   C   A 589     128.764 118.882 -42.970  1.00 41.89      A16S
ATOM  12194  C6   C   A 589     129.179 117.868 -42.159  1.00 41.89      A16S
ATOM  12195  C2   C   A 589     128.151 118.610 -44.172  1.00 41.89      A16S
ATOM  12196  O2   C   A 589     127.809 119.558 -44.885  1.00 41.89      A16S
ATOM  12197  N3   C   A 589     127.945 117.330 -44.542  1.00 41.89      A16S
ATOM  12198  C4   C   A 589     128.343 116.340 -43.748  1.00 41.89      A16S
ATOM  12199  N4   C   A 589     128.120 115.085 -44.151  1.00 41.89      A16S
ATOM  12200  C5   C   A 589     128.989 116.591 -42.505  1.00 41.89      A16S
ATOM  12201  C2* C   A 589     127.818 120.718 -41.660  1.00 38.43      A16S
ATOM  12202  O2* C   A 589     127.526 122.071 -41.939  1.00 38.43      A16S
ATOM  12203  C3* C   A 589     128.468 120.549 -40.299  1.00 38.43      A16S
ATOM  12204  O3* C   A 589     127.886 121.413 -39.347  1.00 38.43      A16S
ATOM  12205  P    C   A 590     126.529 120.980 -38.612  1.00 32.10      A16S
ATOM  12206  O1P C   A 590     126.218 122.123 -37.704  1.00 47.70      A16S
ATOM  12207  O2P C   A 590     126.683 119.622 -38.048  1.00 47.70      A16S
ATOM  12208  O5* C   A 590     125.477 120.875 -39.809  1.00 32.10      A16S
ATOM  12209  C5* C   A 590     124.952 122.062 -40.424  1.00 32.10      A16S
ATOM  12210  C4* C   A 590     123.754 121.741 -41.289  1.00 32.10      A16S
ATOM  12211  O4* C   A 590     124.168 121.049 -42.497  1.00 32.10      A16S
ATOM  12212  C1* C   A 590     123.099 120.246 -42.960  1.00 32.10      A16S
ATOM  12213  N1   C   A 590     123.535 118.850 -43.103  1.00 47.70      A16S
ATOM  12214  C6   C   A 590     124.637 118.368 -42.466  1.00 47.70      A16S
ATOM  12215  C2   C   A 590     122.765 118.013 -43.896  1.00 47.70      A16S
ATOM  12216  O2   C   A 590     121.787 118.493 -44.485  1.00 47.70      A16S
ATOM  12217  N3   C   A 590     123.091 116.712 -44.007  1.00 47.70      A16S
ATOM  12218  C4   C   A 590     124.150 116.242 -43.363  1.00 47.70      A16S
ATOM  12219  N4   C   A 590     124.420 114.945 -43.475  1.00 47.70      A16S
ATOM  12220  C5   C   A 590     124.977 117.080 -42.566  1.00 47.70      A16S
ATOM  12221  C2* C   A 590     121.951 120.354 -41.957  1.00 32.10      A16S
ATOM  12222  O2* C   A 590     120.978 121.253 -42.455  1.00 32.10      A16S
ATOM  12223  C3* C   A 590     122.668 120.852 -40.707  1.00 32.10      A16S
ATOM  12224  O3* C   A 590     121.777 121.533 -39.842  1.00 32.10      A16S
ATOM  12225  P    U   A 591     120.876 120.686 -38.814  1.00 41.39      A16S
ATOM  12226  O1P U   A 591     120.062 121.685 -38.067  1.00 61.24      A16S
ATOM  12227  O2P U   A 591     121.743 119.747 -38.064  1.00 61.24      A16S
ATOM  12228  O5* U   A 591     119.904 119.829 -39.750  1.00 41.39      A16S
ATOM  12229  C5* U   A 591     118.915 120.497 -40.558  1.00 41.39      A16S
ATOM  12230  C4* U   A 591     118.063 119.513 -41.326  1.00 41.39      A16S
ATOM  12231  O4* U   A 591     118.838 118.870 -42.364  1.00 41.39      A16S
ATOM  12232  C1* U   A 591     118.311 117.574 -42.611  1.00 41.39      A16S
ATOM  12233  N1   U   A 591     119.358 116.570 -42.374  1.00 61.24      A16S
ATOM  12234  C6   U   A 591     120.443 116.826 -41.576  1.00 61.24      A16S
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ATOM  12235  C2  U   A 591     119.189 115.338 -42.962  1.00 61.24      A16S
ATOM  12236  O2  U   A 591     118.269 115.085 -43.709  1.00 61.24      A16S
ATOM  12237  N3  U   A 591     120.138 114.413 -42.650  1.00 61.24      A16S
ATOM  12238  C4  U   A 591     121.225 114.589 -41.839  1.00 61.24      A16S
ATOM  12239  O4  U   A 591     121.962 113.628 -41.606  1.00 61.24      A16S
ATOM  12240  C5  U   A 591     121.356 115.904 -41.295  1.00 61.24      A16S
ATOM  12241  C2* U   A 591     117.145 117.350 -41.648  1.00 41.39      A16S
ATOM  12242  O2* U   A 591     115.907 117.570 -42.280  1.00 41.39      A16S
ATOM  12243  C3* U   A 591     117.449 118.361 -40.555  1.00 41.39      A16S
ATOM  12244  O3* U   A 591     116.272 118.706 -39.855  1.00 41.39      A16S
ATOM  12245  P   G   A 592     115.812 117.808 -38.605  1.00 46.18      A16S
ATOM  12246  O1P G   A 592     114.704 118.563 -37.973  1.00 70.00      A16S
ATOM  12247  O2P G   A 592     117.021 117.457 -37.792  1.00 70.00      A16S
ATOM  12248  O5* G   A 592     115.218 116.487 -39.285  1.00 46.18      A16S
ATOM  12249  C5* G   A 592     113.982 116.540 -40.022  1.00 46.18      A16S
ATOM  12250  C4* G   A 592     113.684 115.216 -40.687  1.00 46.18      A16S
ATOM  12251  O4* G   A 592     114.727 114.909 -41.648  1.00 46.18      A16S
ATOM  12252  C1* G   A 592     114.896 113.500 -41.743  1.00 46.18      A16S
ATOM  12253  N9  G   A 592     116.229 113.153 -41.250  1.00 70.00      A16S
ATOM  12254  C4  G   A 592     116.861 111.943 -41.399  1.00 70.00      A16S
ATOM  12255  N3  G   A 592     116.389 110.887 -42.086  1.00 70.00      A16S
ATOM  12256  C2  G   A 592     117.204 109.857 -42.021  1.00 70.00      A16S
ATOM  12257  N2  G   A 592     116.902 108.728 -42.672  1.00 70.00      A16S
ATOM  12258  N1  G   A 592     118.377 109.856 -41.319  1.00 70.00      A16S
ATOM  12259  C6  G   A 592     118.877 110.931 -40.592  1.00 70.00      A16S
ATOM  12260  O6  G   A 592     119.942 110.815 -39.964  1.00 70.00      A16S
ATOM  12261  C5  G   A 592     118.028 112.050 -40.679  1.00 70.00      A16S
ATOM  12262  N7  G   A 592     118.156 113.316 -40.129  1.00 70.00      A16S
ATOM  12263  C8  G   A 592     117.073 113.939 -40.500  1.00 70.00      A16S
ATOM  12264  C2* G   A 592     113.854 112.863 -40.829  1.00 46.18      A16S
ATOM  12265  O2* G   A 592     112.705 112.528 -41.575  1.00 46.18      A16S
ATOM  12266  C3* G   A 592     113.618 113.974 -39.818  1.00 46.18      A16S
ATOM  12267  O3* G   A 592     112.389 113.804 -39.149  1.00 46.18      A16S
ATOM  12268  P   G   A 593     112.363 113.013 -37.747  1.00 36.88      A16S
ATOM  12269  O1P G   A 593     111.066 113.346 -37.108  1.00 59.49      A16S
ATOM  12270  O2P G   A 593     113.626 113.290 -37.016  1.00 59.49      A16S
ATOM  12271  O5* G   A 593     112.382 111.463 -38.139  1.00 36.88      A16S
ATOM  12272  C5* G   A 593     111.328 110.886 -38.931  1.00 36.88      A16S
ATOM  12273  C4* G   A 593     111.650 109.451 -39.298  1.00 36.88      A16S
ATOM  12274  O4* G   A 593     112.812 109.398 -40.171  1.00 36.88      A16S
ATOM  12275  C1* G   A 593     113.530 108.192 -39.944  1.00 36.88      A16S
ATOM  12276  N9  G   A 593     114.875 108.512 -39.463  1.00 59.49      A16S
ATOM  12277  C4  G   A 593     115.896 107.613 -39.281  1.00 59.49      A16S
ATOM  12278  N3  G   A 593     115.850 106.302 -39.573  1.00 59.49      A16S
ATOM  12279  C2  G   A 593     116.974 105.693 -39.274  1.00 59.49      A16S
ATOM  12280  N2  G   A 593     117.106 104.389 -39.527  1.00 59.49      A16S
ATOM  12281  N1  G   A 593     118.058 106.313 -38.713  1.00 59.49      A16S
ATOM  12282  C6  G   A 593     118.134 107.661 -38.399  1.00 59.49      A16S
ATOM  12283  O6  G   A 593     119.171 108.122 -37.891  1.00 59.49      A16S
ATOM  12284  C5  G   A 593     116.931 108.337 -38.732  1.00 59.49      A16S
ATOM  12285  N7  G   A 593     116.582 109.676 -38.603  1.00 59.49      A16S
ATOM  12286  C8  G   A 593     115.360 109.735 -39.058  1.00 59.49      A16S
ATOM  12287  C2* G   A 593     112.771 107.406 -38.876  1.00 36.88      A16S
ATOM  12288  O2* G   A 593     111.927 106.464 -39.489  1.00 36.88      A16S
ATOM  12289  C3* G   A 593     111.998 108.505 -38.163  1.00 36.88      A16S
ATOM  12290  O3* G   A 593     110.865 107.980 -37.504  1.00 36.88      A16S
ATOM  12291  P   G   A 594     110.951 107.661 -35.937  1.00 58.42      A16S
ATOM  12292  O1P G   A 594     109.600 107.257 -35.479  1.00 54.09      A16S
ATOM  12293  O2P G   A 594     111.641 108.797 -35.270  1.00 54.09      A16S
ATOM  12294  O5* G   A 594     111.913 106.395 -35.858  1.00 58.42      A16S
ATOM  12295  C5* G   A 594     111.613 105.177 -36.576  1.00 58.42      A16S
ATOM  12296  C4* G   A 594     112.754 104.183 -36.435  1.00 58.42      A16S
ATOM  12297  O4* G   A 594     113.929 104.675 -37.131  1.00 58.42      A16S
ATOM  12298  C1* G   A 594     115.097 104.308 -36.415  1.00 58.42      A16S
ATOM  12299  N9  G   A 594     115.807 105.526 -36.026  1.00 54.09      A16S
ATOM  12300  C4  G   A 594     117.141 105.626 -35.709  1.00 54.09      A16S
ATOM  12301  N3  G   A 594     118.036 104.619 -35.728  1.00 54.09      A16S
ATOM  12302  C2  G   A 594     119.234 105.021 -35.359  1.00 54.09      A16S
ATOM  12303  N2  G   A 594     120.232 104.147 -35.331  1.00 54.09      A16S
ATOM  12304  N1  G   A 594     119.537 106.310 -34.991  1.00 54.09      A16S
ATOM  12305  C6  G   A 594     118.634 107.366 -34.961  1.00 54.09      A16S
ATOM  12306  O6  G   A 594     119.008 108.493 -34.609  1.00 54.09      A16S
ATOM  12307  C5  G   A 594     117.339 106.951 -35.366  1.00 54.09      A16S
ATOM  12308  N7  G   A 594     116.161 107.674 -35.491  1.00 54.09      A16S
ATOM  12309  C8  G   A 594     115.282 106.791 -35.885  1.00 54.09      A16S
ATOM  12310  C2* G   A 594     114.663 103.460 -35.216  1.00 58.42      A16S
ATOM  12311  O2* G   A 594     114.707 102.088 -35.549  1.00 58.42      A16S
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ATOM  12312  C3* G   A 594     113.229 103.916 -35.015  1.00 58.42      A16S
ATOM  12313  O3* G   A 594     112.467 102.898 -34.399  1.00 58.42      A16S
ATOM  12314  P   G   A 595     112.029 103.062 -32.868  1.00 45.61      A16S
ATOM  12315  O1P G   A 595     111.170 101.914 -32.483  1.00 44.22      A16S
ATOM  12316  O2P G   A 595     111.531 104.449 -32.699  1.00 44.22      A16S
ATOM  12317  O5* G   A 595     113.382 102.931 -32.041  1.00 45.61      A16S
ATOM  12318  C5* G   A 595     114.345 101.914 -32.346  1.00 45.61      A16S
ATOM  12319  C4* G   A 595     115.638 102.221 -31.648  1.00 45.61      A16S
ATOM  12320  O4* G   A 595     116.077 103.530 -32.090  1.00 45.61      A16S
ATOM  12321  C1* G   A 595     116.249 104.386 -30.982  1.00 45.61      A16S
ATOM  12322  N9  G   A 595     115.796 105.717 -31.380  1.00 44.22      A16S
ATOM  12323  C4  G   A 595     116.562 106.853 -31.524  1.00 44.22      A16S
ATOM  12324  N3  G   A 595     117.885 106.951 -31.310  1.00 44.22      A16S
ATOM  12325  C2  G   A 595     118.329 108.173 -31.538  1.00 44.22      A16S
ATOM  12326  N2  G   A 595     119.623 108.453 -31.374  1.00 44.22      A16S
ATOM  12327  N1  G   A 595     117.540 109.212 -31.946  1.00 44.22      A16S
ATOM  12328  C6  G   A 595     116.177 109.135 -32.177  1.00 44.22      A16S
ATOM  12329  O6  G   A 595     115.556 110.138 -32.559  1.00 44.22      A16S
ATOM  12330  C5  G   A 595     115.686 107.835 -31.929  1.00 44.22      A16S
ATOM  12331  N7  G   A 595     114.401 107.334 -32.033  1.00 44.22      A16S
ATOM  12332  C8  G   A 595     114.514 106.079 -31.698  1.00 44.22      A16S
ATOM  12333  C2* G   A 595     115.458 103.766 -29.827  1.00 45.61      A16S
ATOM  12334  O2* G   A 595     116.048 104.075 -28.581  1.00 45.61      A16S
ATOM  12335  C3* G   A 595     115.555 102.274 -30.127  1.00 45.61      A16S
ATOM  12336  O3* G   A 595     116.750 101.746 -29.563  1.00 45.61      A16S
ATOM  12337  P   C   A 596     116.752 100.271 -28.925  1.00 35.40      A16S
ATOM  12338  O1P C   A 596     115.936  99.392 -29.801  1.00 54.79      A16S
ATOM  12339  O2P C   A 596     116.426 100.386 -27.479  1.00 54.79      A16S
ATOM  12340  O5* C   A 596     118.264  99.803 -29.080  1.00 35.40      A16S
ATOM  12341  C5* C   A 596     118.600  98.533 -29.676  1.00 35.40      A16S
ATOM  12342  C4* C   A 596     120.095  98.440 -29.880  1.00 35.40      A16S
ATOM  12343  O4* C   A 596     120.467  98.882 -31.211  1.00 35.40      A16S
ATOM  12344  C1* C   A 596     121.627  99.700 -31.139  1.00 35.40      A16S
ATOM  12345  N1  C   A 596     121.228 101.081 -31.504  1.00 54.79      A16S
ATOM  12346  C6  C   A 596     119.917 101.382 -31.750  1.00 54.79      A16S
ATOM  12347  C2  C   A 596     122.205 102.093 -31.565  1.00 54.79      A16S
ATOM  12348  O2  C   A 596     123.398 101.799 -31.394  1.00 54.79      A16S
ATOM  12349  N3  C   A 596     121.817 103.364 -31.815  1.00 54.79      A16S
ATOM  12350  C4  C   A 596     120.526 103.643 -32.016  1.00 54.79      A16S
ATOM  12351  N4  C   A 596     120.183 104.913 -32.222  1.00 54.79      A16S
ATOM  12352  C5  C   A 596     119.529 102.633 -32.005  1.00 54.79      A16S
ATOM  12353  C2* C   A 596     122.146  99.620 -29.697  1.00 35.40      A16S
ATOM  12354  O2* C   A 596     123.105  98.591 -29.564  1.00 35.40      A16S
ATOM  12355  C3* C   A 596     120.865  99.334 -28.933  1.00 35.40      A16S
ATOM  12356  O3* C   A 596     121.044  98.716 -27.681  1.00 35.40      A16S
ATOM  12357  P   G   A 597     120.780  99.560 -26.344  1.00 37.04      A16S
ATOM  12358  O1P G   A 597     120.303  98.615 -25.305  1.00 50.08      A16S
ATOM  12359  O2P G   A 597     119.939 100.734 -26.698  1.00 50.08      A16S
ATOM  12360  O5* G   A 597     122.238 100.079 -25.946  1.00 37.04      A16S
ATOM  12361  C5* G   A 597     123.426  99.307 -26.274  1.00 37.04      A16S
ATOM  12362  C4* G   A 597     124.607 100.219 -26.548  1.00 37.04      A16S
ATOM  12363  O4* G   A 597     124.402 100.974 -27.770  1.00 37.04      A16S
ATOM  12364  C1* G   A 597     124.960 102.274 -27.628  1.00 37.04      A16S
ATOM  12365  N9  G   A 597     123.906 103.271 -27.802  1.00 50.08      A16S
ATOM  12366  C4  G   A 597     124.048 104.640 -27.702  1.00 50.08      A16S
ATOM  12367  N3  G   A 597     125.202 105.307 -27.490  1.00 50.08      A16S
ATOM  12368  C2  G   A 597     125.008 106.606 -27.387  1.00 50.08      A16S
ATOM  12369  N2  G   A 597     126.043 107.413 -27.165  1.00 50.08      A16S
ATOM  12370  N1  G   A 597     123.783 107.207 -27.489  1.00 50.08      A16S
ATOM  12371  C6  G   A 597     122.584 106.542 -27.718  1.00 50.08      A16S
ATOM  12372  O6  G   A 597     121.526 107.179 -27.791  1.00 50.08      A16S
ATOM  12373  C5  G   A 597     122.778 105.147 -27.833  1.00 50.08      A16S
ATOM  12374  N7  G   A 597     121.862 104.130 -28.060  1.00 50.08      A16S
ATOM  12375  C8  G   A 597     122.577 103.040 -28.048  1.00 50.08      A16S
ATOM  12376  C2* G   A 597     125.592 102.361 -26.238  1.00 37.04      A16S
ATOM  12377  O2* G   A 597     126.972 102.116 -26.336  1.00 37.04      A16S
ATOM  12378  C3* G   A 597     124.863 101.264 -25.485  1.00 37.04      A16S
ATOM  12379  O3* G   A 597     125.683 100.746 -24.471  1.00 37.04      A16S
ATOM  12380  P   U   A 598     125.486 101.259 -22.978  1.00 32.13      A16S
ATOM  12381  O1P U   A 598     124.208 100.675 -22.523  1.00 36.49      A16S
ATOM  12382  O2P U   A 598     126.723 101.046 -22.190  1.00 36.49      A16S
ATOM  12383  O5* U   A 598     125.248 102.820 -23.142  1.00 32.13      A16S
ATOM  12384  C5* U   A 598     126.352 103.726 -23.142  1.00 32.13      A16S
ATOM  12385  C4* U   A 598     125.862 105.143 -23.024  1.00 32.13      A16S
ATOM  12386  O4* U   A 598     125.160 105.528 -24.227  1.00 32.13      A16S
ATOM  12387  C1* U   A 598     124.113 106.413 -23.907  1.00 32.13      A16S
ATOM  12388  N1  U   A 598     122.848 105.800 -24.326  1.00 36.49      A16S
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ATOM  12389  C6  U   A 598     122.784 104.484 -24.706  1.00 36.49      A16S
ATOM  12390  C2  U   A 598     121.720 106.587 -24.313  1.00 36.49      A16S
ATOM  12391  O2  U   A 598     121.743 107.763 -24.002  1.00 36.49      A16S
ATOM  12392  N3  U   A 598     120.562 105.949 -24.680  1.00 36.49      A16S
ATOM  12393  C4  U   A 598     120.426 104.634 -25.070  1.00 36.49      A16S
ATOM  12394  O4  U   A 598     119.324 104.212 -25.429  1.00 36.49      A16S
ATOM  12395  C5  U   A 598     121.643 103.891 -25.068  1.00 36.49      A16S
ATOM  12396  C2* U   A 598     124.168 106.648 -22.400  1.00 32.13      A16S
ATOM  12397  O2* U   A 598     124.962 107.785 -22.150  1.00 32.13      A16S
ATOM  12398  C3* U   A 598     124.867 105.395 -21.921  1.00 32.13      A16S
ATOM  12399  O3* U   A 598     125.516 105.611 -20.695  1.00 32.13      A16S
ATOM  12400  P   C   A 599     124.721 105.325 -19.337  1.00 38.71      A16S
ATOM  12401  O1P C   A 599     124.077 103.996 -19.541  1.00 41.91      A16S
ATOM  12402  O2P C   A 599     125.609 105.547 -18.146  1.00 41.91      A16S
ATOM  12403  O5* C   A 599     123.583 106.441 -19.355  1.00 38.71      A16S
ATOM  12404  C5* C   A 599     123.900 107.821 -19.126  1.00 38.71      A16S
ATOM  12405  C4* C   A 599     122.635 108.641 -19.034  1.00 38.71      A16S
ATOM  12406  O4* C   A 599     121.954 108.647 -20.313  1.00 38.71      A16S
ATOM  12407  C1* C   A 599     120.555 108.721 -20.108  1.00 38.71      A16S
ATOM  12408  N1  C   A 599     119.927 107.538 -20.707  1.00 41.91      A16S
ATOM  12409  C6  C   A 599     120.547 106.323 -20.676  1.00 41.91      A16S
ATOM  12410  C2  C   A 599     118.678 107.674 -21.304  1.00 41.91      A16S
ATOM  12411  O2  C   A 599     118.150 108.801 -21.349  1.00 41.91      A16S
ATOM  12412  N3  C   A 599     118.079 106.582 -21.831  1.00 41.91      A16S
ATOM  12413  C4  C   A 599     118.698 105.402 -21.798  1.00 41.91      A16S
ATOM  12414  N4  C   A 599     118.085 104.358 -22.344  1.00 41.91      A16S
ATOM  12415  C5  C   A 599     119.975 105.242 -21.209  1.00 41.91      A16S
ATOM  12416  C2* C   A 599     120.307 108.789 -18.607  1.00 38.71      A16S
ATOM  12417  O2* C   A 599     120.182 110.147 -18.244  1.00 38.71      A16S
ATOM  12418  C3* C   A 599     121.577 108.159 -18.060  1.00 38.71      A16S
ATOM  12419  O3* C   A 599     121.830 108.568 -16.735  1.00 38.71      A16S
ATOM  12420  P   C   A 600     121.198 107.721 -15.534  1.00 41.78      A16S
ATOM  12421  O1P C   A 600     121.331 106.284 -15.872  1.00 37.97      A16S
ATOM  12422  O2P C   A 600     121.725 108.225 -14.235  1.00 37.97      A16S
ATOM  12423  O5* C   A 600     119.648 108.036 -15.652  1.00 41.78      A16S
ATOM  12424  C5* C   A 600     119.177 109.377 -15.516  1.00 41.78      A16S
ATOM  12425  C4* C   A 600     117.687 109.426 -15.702  1.00 41.78      A16S
ATOM  12426  O4* C   A 600     117.355 109.048 -17.055  1.00 41.78      A16S
ATOM  12427  C1* C   A 600     116.046 108.530 -17.080  1.00 41.78      A16S
ATOM  12428  N1  C   A 600     116.042 107.260 -17.801  1.00 37.97      A16S
ATOM  12429  C6  C   A 600     117.074 106.377 -17.700  1.00 37.97      A16S
ATOM  12430  C2  C   A 600     114.945 106.971 -18.593  1.00 37.97      A16S
ATOM  12431  O2  C   A 600     114.024 107.806 -18.669  1.00 37.97      A16S
ATOM  12432  N3  C   A 600     114.899 105.803 -19.256  1.00 37.97      A16S
ATOM  12433  C4  C   A 600     115.900 104.942 -19.146  1.00 37.97      A16S
ATOM  12434  N4  C   A 600     115.799 103.797 -19.805  1.00 37.97      A16S
ATOM  12435  C5  C   A 600     117.042 105.214 -18.350  1.00 37.97      A16S
ATOM  12436  C2* C   A 600     115.558 108.397 -15.644  1.00 41.78      A16S
ATOM  12437  O2* C   A 600     114.703 109.487 -15.377  1.00 41.78      A16S
ATOM  12438  C3* C   A 600     116.863 108.467 -14.868  1.00 41.78      A16S
ATOM  12439  O3* C   A 600     116.665 108.950 -13.557  1.00 41.78      A16S
ATOM  12440  P   C   A 601     116.484 107.903 -12.360  1.00 39.62      A16S
ATOM  12441  O1P C   A 601     116.636 108.690 -11.105  1.00 60.20      A16S
ATOM  12442  O2P C   A 601     117.375 106.735 -12.604  1.00 60.20      A16S
ATOM  12443  O5* C   A 601     114.977 107.419 -12.539  1.00 39.62      A16S
ATOM  12444  C5* C   A 601     113.918 108.388 -12.577  1.00 39.62      A16S
ATOM  12445  C4* C   A 601     112.595 107.735 -12.884  1.00 39.62      A16S
ATOM  12446  O4* C   A 601     112.505 107.363 -14.277  1.00 39.62      A16S
ATOM  12447  C1* C   A 601     111.721 106.198 -14.399  1.00 39.62      A16S
ATOM  12448  N1  C   A 601     112.512 105.171 -15.087  1.00 60.20      A16S
ATOM  12449  C6  C   A 601     113.875 105.207 -15.078  1.00 60.20      A16S
ATOM  12450  C2  C   A 601     111.841 104.154 -15.755  1.00 60.20      A16S
ATOM  12451  O2  C   A 601     110.604 104.143 -15.739  1.00 60.20      A16S
ATOM  12452  N3  C   A 601     112.547 103.207 -16.398  1.00 60.20      A16S
ATOM  12453  C4  C   A 601     113.876 103.248 -16.384  1.00 60.20      A16S
ATOM  12454  N4  C   A 601     114.536 102.280 -17.025  1.00 60.20      A16S
ATOM  12455  C5  C   A 601     114.589 104.277 -15.710  1.00 60.20      A16S
ATOM  12456  C2* C   A 601     111.268 105.783 -13.000  1.00 39.62      A16S
ATOM  12457  O2* C   A 601     109.974 106.286 -12.772  1.00 39.62      A16S
ATOM  12458  C3* C   A 601     112.292 106.473 -12.118  1.00 39.62      A16S
ATOM  12459  O3* C   A 601     111.761 106.791 -10.852  1.00 39.62      A16S
ATOM  12460  P   A   A 602     111.987 105.777  -9.638  1.00 44.32      A16S
ATOM  12461  O1P A   A 602     111.484 106.467  -8.426  1.00 72.81      A16S
ATOM  12462  O2P A   A 602     113.386 105.287  -9.665  1.00 72.81      A16S
ATOM  12463  O5* A   A 602     111.030 104.559 -10.014  1.00 44.32      A16S
ATOM  12464  C5* A   A 602     109.617 104.760 -10.101  1.00 44.32      A16S
ATOM  12465  C4* A   A 602     108.934 103.552 -10.683  1.00 44.32      A16S
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ATOM  12466  O4* A   A 602     109.309 103.402 -12.070  1.00 44.32      A16S
ATOM  12467  C1* A   A 602     109.286 102.032 -12.422  1.00 44.32      A16S
ATOM  12468  N9  A   A 602     110.618 101.648 -12.888  1.00 72.81      A16S
ATOM  12469  C4  A   A 602     110.914 100.557 -13.662  1.00 72.81      A16S
ATOM  12470  N3  A   A 602     110.059  99.644 -14.139  1.00 72.81      A16S
ATOM  12471  C2  A   A 602     110.705  98.728 -14.842  1.00 72.81      A16S
ATOM  12472  N1  A   A 602     112.007  98.630 -15.109  1.00 72.81      A16S
ATOM  12473  C6  A   A 602     112.834  99.572 -14.624  1.00 72.81      A16S
ATOM  12474  N6  A   A 602     114.131  99.488 -14.908  1.00 72.81      A16S
ATOM  12475  C5  A   A 602     112.278 100.589 -13.853  1.00 72.81      A16S
ATOM  12476  N7  A   A 602     112.839 101.680 -13.210  1.00 72.81      A16S
ATOM  12477  C8  A   A 602     111.815 102.275 -12.654  1.00 72.81      A16S
ATOM  12478  C2* A   A 602     108.847 101.245 -11.189  1.00 44.32      A16S
ATOM  12479  O2* A   A 602     107.455 101.014 -11.286  1.00 44.32      A16S
ATOM  12480  C3* A   A 602     109.229 102.200 -10.062  1.00 44.32      A16S
ATOM  12481  O3* A   A 602     108.471 101.971  -8.883  1.00 44.32      A16S
ATOM  12482  P   U   A 603     109.093 101.070  -7.703  1.00 41.24      A16S
ATOM  12483  O1P U   A 603     108.167 101.152  -6.546  1.00 71.68      A16S
ATOM  12484  O2P U   A 603     110.513 101.470  -7.527  1.00 71.68      A16S
ATOM  12485  O5* U   A 603     109.064  99.580  -8.284  1.00 41.24      A16S
ATOM  12486  C5* U   A 603     107.852  99.017  -8.834  1.00 41.24      A16S
ATOM  12487  C4* U   A 603     108.140  97.738  -9.605  1.00 41.24      A16S
ATOM  12488  O4* U   A 603     108.761  98.025 -10.884  1.00 41.24      A16S
ATOM  12489  C1* U   A 603     109.659  96.979 -11.231  1.00 41.24      A16S
ATOM  12490  N1  U   A 603     111.019  97.532 -11.358  1.00 71.68      A16S
ATOM  12491  C6  U   A 603     111.446  98.569 -10.568  1.00 71.68      A16S
ATOM  12492  C2  U   A 603     111.865  96.967 -12.294  1.00 71.68      A16S
ATOM  12493  O2  U   A 603     111.537  96.052 -13.020  1.00 71.68      A16S
ATOM  12494  N3  U   A 603     113.118  97.513 -12.345  1.00 71.68      A16S
ATOM  12495  C4  U   A 603     113.608  98.535 -11.572  1.00 71.68      A16S
ATOM  12496  O4  U   A 603     114.794  98.857 -11.673  1.00 71.68      A16S
ATOM  12497  C5  U   A 603     112.675  99.072 -10.641  1.00 71.68      A16S
ATOM  12498  C2* U   A 603     109.580  95.920 -10.137  1.00 41.24      A16S
ATOM  12499  O2* U   A 603     108.697  94.909 -10.560  1.00 41.24      A16S
ATOM  12500  C3* U   A 603     109.067  96.732  -8.950  1.00 41.24      A16S
ATOM  12501  O3* U   A 603     108.396  95.928  -7.996  1.00 41.24      A16S
ATOM  12502  P   G   A 604     109.246  95.196  -6.848  1.00 36.80      A16S
ATOM  12503  O1P G   A 604     108.278  94.584  -5.912  1.00 40.26      A16S
ATOM  12504  O2P G   A 604     110.306  96.098  -6.322  1.00 40.26      A16S
ATOM  12505  O5* G   A 604     109.964  94.015  -7.627  1.00 36.80      A16S
ATOM  12506  C5* G   A 604     109.193  92.971  -8.216  1.00 36.80      A16S
ATOM  12507  C4* G   A 604     110.102  91.965  -8.861  1.00 36.80      A16S
ATOM  12508  O4* G   A 604     110.681  92.522 -10.070  1.00 36.80      A16S
ATOM  12509  C1* G   A 604     111.972  91.979 -10.267  1.00 36.80      A16S
ATOM  12510  N9  G   A 604     112.946  93.067 -10.314  1.00 40.26      A16S
ATOM  12511  C4  G   A 604     114.180  93.030 -10.926  1.00 40.26      A16S
ATOM  12512  N3  G   A 604     114.692  91.992 -11.610  1.00 40.26      A16S
ATOM  12513  C2  G   A 604     115.888  92.252 -12.071  1.00 40.26      A16S
ATOM  12514  N2  G   A 604     116.528  91.336 -12.782  1.00 40.26      A16S
ATOM  12515  N1  G   A 604     116.542  93.430 -11.873  1.00 40.26      A16S
ATOM  12516  C6  G   A 604     116.041  94.516 -11.176  1.00 40.26      A16S
ATOM  12517  O6  G   A 604     116.722  95.542 -11.059  1.00 40.26      A16S
ATOM  12518  C5  G   A 604     114.748  94.255 -10.677  1.00 40.26      A16S
ATOM  12519  N7  G   A 604     113.889  95.054  -9.936  1.00 40.26      A16S
ATOM  12520  C8  G   A 604     112.833  94.310  -9.749  1.00 40.26      A16S
ATOM  12521  C2* G   A 604     112.243  91.018  -9.111  1.00 36.80      A16S
ATOM  12522  O2* G   A 604     111.857  89.723  -9.497  1.00 36.80      A16S
ATOM  12523  C3* G   A 604     111.302  91.539  -8.044  1.00 36.80      A16S
ATOM  12524  O3* G   A 604     111.005  90.534  -7.106  1.00 36.80      A16S
ATOM  12525  P   U   A 605     111.979  90.340  -5.853  1.00 47.23      A16S
ATOM  12526  O1P U   A 605     111.535  89.145  -5.102  1.00 51.74      A16S
ATOM  12527  O2P U   A 605     112.100  91.653  -5.158  1.00 51.74      A16S
ATOM  12528  O5* U   A 605     113.390  89.982  -6.506  1.00 47.23      A16S
ATOM  12529  C5* U   A 605     113.576  88.740  -7.228  1.00 47.23      A16S
ATOM  12530  C4* U   A 605     114.964  88.658  -7.846  1.00 47.23      A16S
ATOM  12531  O4* U   A 605     115.149  89.689  -8.846  1.00 47.23      A16S
ATOM  12532  C1* U   A 605     116.507  90.084  -8.868  1.00 47.23      A16S
ATOM  12533  N1  U   A 605     116.589  91.521  -8.585  1.00 51.74      A16S
ATOM  12534  C6  U   A 605     115.723  92.135  -7.731  1.00 51.74      A16S
ATOM  12535  C2  U   A 605     117.579  92.225  -9.207  1.00 51.74      A16S
ATOM  12536  O2  U   A 605     118.364  91.707  -9.979  1.00 51.74      A16S
ATOM  12537  N3  U   A 605     117.623  93.561  -8.900  1.00 51.74      A16S
ATOM  12538  C4  U   A 605     116.785  94.243  -8.055  1.00 51.74      A16S
ATOM  12539  O4  U   A 605     116.904  95.467  -7.927  1.00 51.74      A16S
ATOM  12540  C5  U   A 605     115.785  93.435  -7.451  1.00 51.74      A16S
ATOM  12541  C2* U   A 605     117.264  89.262  -7.827  1.00 47.23      A16S
ATOM  12542  O2* U   A 605     117.909  88.183  -8.460  1.00 47.23      A16S
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ATOM  12543  C3* U   A 605     116.141  88.816  -6.903  1.00 47.23      A16S
ATOM  12544  O3* U   A 605     116.461  87.585  -6.297  1.00 47.23      A16S
ATOM  12545  P   G   A 606     117.005  87.569  -4.799  1.00 53.70      A16S
ATOM  12546  O1P G   A 606     117.220  86.134  -4.468  1.00 79.36      A16S
ATOM  12547  O2P G   A 606     116.103  88.397  -3.962  1.00 79.36      A16S
ATOM  12548  O5* G   A 606     118.414  88.300  -4.886  1.00 53.70      A16S
ATOM  12549  C5* G   A 606     119.514  87.680  -5.576  1.00 53.70      A16S
ATOM  12550  C4* G   A 606     120.664  88.647  -5.709  1.00 53.70      A16S
ATOM  12551  O4* G   A 606     120.255  89.762  -6.537  1.00 53.70      A16S
ATOM  12552  C1* G   A 606     120.832  90.953  -6.049  1.00 53.70      A16S
ATOM  12553  N9  G   A 606     119.745  91.878  -5.736  1.00 79.36      A16S
ATOM  12554  C4  G   A 606     119.810  93.253  -5.678  1.00 79.36      A16S
ATOM  12555  N3  G   A 606     120.905  94.009  -5.900  1.00 79.36      A16S
ATOM  12556  C2  G   A 606     120.648  95.300  -5.784  1.00 79.36      A16S
ATOM  12557  N2  G   A 606     121.622  96.195  -5.986  1.00 79.36      A16S
ATOM  12558  N1  G   A 606     119.418  95.810  -5.467  1.00 79.36      A16S
ATOM  12559  C6  G   A 606     118.275  95.053  -5.234  1.00 79.36      A16S
ATOM  12560  O6  G   A 606     117.201  95.617  -4.958  1.00 79.36      A16S
ATOM  12561  C5  G   A 606     118.536  93.665  -5.362  1.00 79.36      A16S
ATOM  12562  N7  G   A 606     117.687  92.578  -5.223  1.00 79.36      A16S
ATOM  12563  C8  G   A 606     118.445  91.543  -5.451  1.00 79.36      A16S
ATOM  12564  C2* G   A 606     121.751  90.583  -4.877  1.00 53.70      A16S
ATOM  12565  O2* G   A 606     123.064  90.409  -5.376  1.00 53.70      A16S
ATOM  12566  C3* G   A 606     121.166  89.255  -4.411  1.00 53.70      A16S
ATOM  12567  O3* G   A 606     122.185  88.415  -3.871  1.00 53.70      A16S
ATOM  12568  P   A   A 607     122.355  88.260  -2.280  1.00 55.82      A16S
ATOM  12569  O1P A   A 607     121.909  89.510  -1.613  1.00 70.52      A16S
ATOM  12570  O2P A   A 607     123.729  87.753  -2.033  1.00 70.52      A16S
ATOM  12571  O5* A   A 607     121.334  87.100  -1.893  1.00 55.82      A16S
ATOM  12572  C5* A   A 607     119.914  87.352  -1.821  1.00 55.82      A16S
ATOM  12573  C4* A   A 607     119.268  86.463  -0.776  1.00 55.82      A16S
ATOM  12574  O4* A   A 607     119.445  85.077  -1.155  1.00 55.82      A16S
ATOM  12575  C1* A   A 607     119.606  84.284   0.009  1.00 55.82      A16S
ATOM  12576  N9  A   A 607     120.895  83.598  -0.081  1.00 70.52      A16S
ATOM  12577  C4  A   A 607     121.387  82.691   0.826  1.00 70.52      A16S
ATOM  12578  N3  A   A 607     120.783  82.248   1.942  1.00 70.52      A16S
ATOM  12579  C2  A   A 607     121.565  81.391   2.583  1.00 70.52      A16S
ATOM  12580  N1  A   A 607     122.792  80.963   2.263  1.00 70.52      A16S
ATOM  12581  C6  A   A 607     123.369  81.431   1.134  1.00 70.52      A16S
ATOM  12582  N6  A   A 607     124.598  81.012   0.814  1.00 70.52      A16S
ATOM  12583  C5  A   A 607     122.640  82.338   0.361  1.00 70.52      A16S
ATOM  12584  N7  A   A 607     122.929  82.992  -0.829  1.00 70.52      A16S
ATOM  12585  C8  A   A 607     121.865  83.723  -1.051  1.00 70.52      A16S
ATOM  12586  C2* A   A 607     119.508  85.202   1.233  1.00 55.82      A16S
ATOM  12587  O2* A   A 607     118.215  85.202   1.796  1.00 55.82      A16S
ATOM  12588  C3* A   A 607     119.830  86.558   0.636  1.00 55.82      A16S
ATOM  12589  O3* A   A 607     119.174  87.542   1.405  1.00 55.82      A16S
ATOM  12590  P   A   A 608     119.947  88.221   2.633  1.00 35.45      A16S
ATOM  12591  O1P A   A 608     118.956  89.044   3.372  1.00 42.01      A16S
ATOM  12592  O2P A   A 608     121.186  88.862   2.081  1.00 42.01      A16S
ATOM  12593  O5* A   A 608     120.368  87.006   3.579  1.00 35.45      A16S
ATOM  12594  C5* A   A 608     119.407  86.349   4.420  1.00 35.45      A16S
ATOM  12595  C4* A   A 608     120.079  85.295   5.267  1.00 35.45      A16S
ATOM  12596  O4* A   A 608     120.653  84.284   4.410  1.00 35.45      A16S
ATOM  12597  C1* A   A 608     121.879  83.825   4.966  1.00 35.45      A16S
ATOM  12598  N9  A   A 608     122.959  84.122   4.023  1.00 42.01      A16S
ATOM  12599  C4  A   A 608     124.260  83.713   4.133  1.00 42.01      A16S
ATOM  12600  N3  A   A 608     124.799  82.987   5.119  1.00 42.01      A16S
ATOM  12601  C2  A   A 608     126.083  82.766   4.881  1.00 42.01      A16S
ATOM  12602  N1  A   A 608     126.832  83.161   3.848  1.00 42.01      A16S
ATOM  12603  C6  A   A 608     126.256  83.891   2.877  1.00 42.01      A16S
ATOM  12604  N6  A   A 608     127.001  84.279   1.845  1.00 42.01      A16S
ATOM  12605  C5  A   A 608     124.903  84.194   3.012  1.00 42.01      A16S
ATOM  12606  N7  A   A 608     124.029  84.910   2.216  1.00 42.01      A16S
ATOM  12607  C8  A   A 608     122.894  84.842   2.857  1.00 42.01      A16S
ATOM  12608  C2* A   A 608     122.076  84.526   6.303  1.00 35.45      A16S
ATOM  12609  O2* A   A 608     121.580  83.725   7.347  1.00 35.45      A16S
ATOM  12610  C3* A   A 608     121.244  85.776   6.107  1.00 35.45      A16S
ATOM  12611  O3* A   A 608     120.839  86.284   7.344  1.00 35.45      A16S
ATOM  12612  P   A   A 609     121.597  87.555   7.938  1.00 31.44      A16S
ATOM  12613  O1P A   A 609     121.056  87.794   9.292  1.00 59.69      A16S
ATOM  12614  O2P A   A 609     121.514  88.627   6.906  1.00 59.69      A16S
ATOM  12615  O5* A   A 609     123.107  87.080   8.109  1.00 31.44      A16S
ATOM  12616  C5* A   A 609     123.435  86.049   9.043  1.00 31.44      A16S
ATOM  12617  C4* A   A 609     124.871  85.616   8.871  1.00 31.44      A16S
ATOM  12618  O4* A   A 609     125.064  85.041   7.556  1.00 31.44      A16S
ATOM  12619  C1* A   A 609     126.371  85.333   7.097  1.00 31.44      A16S
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ATOM	12620	N9	A	A	609	126.267	86.093	5.855	1.00	59.69	A16S
ATOM	12621	C4	A	A	609	127.301	86.375	5.001	1.00	59.69	A16S
ATOM	12622	N3	A	A	609	128.582	86.016	5.136	1.00	59.69	A16S
ATOM	12623	C2	A	A	609	129.293	86.461	4.118	1.00	59.69	A16S
ATOM	12624	N1	A	A	609	128.904	87.173	3.062	1.00	59.69	A16S
ATOM	12625	C6	A	A	609	127.610	87.523	2.963	1.00	59.69	A16S
ATOM	12626	N6	A	A	609	127.216	88.247	1.914	1.00	59.69	A16S
ATOM	12627	C5	A	A	609	126.750	87.109	3.973	1.00	59.69	A16S
ATOM	12628	N7	A	A	609	125.390	87.292	4.169	1.00	59.69	A16S
ATOM	12629	C8	A	A	609	125.153	86.672	5.298	1.00	59.69	A16S
ATOM	12630	C2*	A	A	609	127.085	86.123	8.190	1.00	31.44	A16S
ATOM	12631	O2*	A	A	609	127.869	85.240	8.958	1.00	31.44	A16S
ATOM	12632	C3*	A	A	609	125.911	86.714	8.955	1.00	31.44	A16S
ATOM	12633	O3*	A	A	609	126.239	87.024	10.295	1.00	31.44	A16S
ATOM	12634	P	G	A	610	126.566	88.544	10.688	1.00	47.27	A16S
ATOM	12635	O1P	G	A	610	127.033	88.552	12.106	1.00	59.03	A16S
ATOM	12636	O2P	G	A	610	125.422	89.397	10.278	1.00	59.03	A16S
ATOM	12637	O5*	G	A	610	127.806	88.902	9.761	1.00	47.27	A16S
ATOM	12638	C5*	G	A	610	129.037	88.186	9.901	1.00	47.27	A16S
ATOM	12639	C4*	G	A	610	130.036	88.662	8.889	1.00	47.27	A16S
ATOM	12640	O4*	G	A	610	129.572	88.338	7.561	1.00	47.27	A16S
ATOM	12641	C1*	G	A	610	129.979	89.343	6.659	1.00	47.27	A16S
ATOM	12642	N9	G	A	610	128.786	89.872	6.014	1.00	59.03	A16S
ATOM	12643	C4	G	A	610	128.739	90.819	5.033	1.00	59.03	A16S
ATOM	12644	N3	G	A	610	129.794	91.437	4.488	1.00	59.03	A16S
ATOM	12645	C2	G	A	610	129.430	92.312	3.573	1.00	59.03	A16S
ATOM	12646	N2	G	A	610	130.362	93.033	2.935	1.00	59.03	A16S
ATOM	12647	N1	G	A	610	128.133	92.552	3.213	1.00	59.03	A16S
ATOM	12648	C6	G	A	610	127.031	91.911	3.753	1.00	59.03	A16S
ATOM	12649	O6	G	A	610	125.897	92.180	3.341	1.00	59.03	A16S
ATOM	12650	C5	G	A	610	127.408	90.984	4.746	1.00	59.03	A16S
ATOM	12651	N7	G	A	610	126.631	90.152	5.532	1.00	59.03	A16S
ATOM	12652	C8	G	A	610	127.492	89.512	6.268	1.00	59.03	A16S
ATOM	12653	C2*	G	A	610	130.786	90.374	7.445	1.00	47.27	A16S
ATOM	12654	O2*	G	A	610	132.151	90.023	7.366	1.00	47.27	A16S
ATOM	12655	C3*	G	A	610	130.272	90.156	8.857	1.00	47.27	A16S
ATOM	12656	O3*	G	A	610	131.226	90.528	9.833	1.00	47.27	A16S
ATOM	12657	P	A	A	611	131.119	91.967	10.524	1.00	44.20	A16S
ATOM	12658	O1P	A	A	611	132.354	92.116	11.330	1.00	64.17	A16S
ATOM	12659	O2P	A	A	611	129.795	92.093	11.177	1.00	64.17	A16S
ATOM	12660	O5*	A	A	611	131.163	92.984	9.301	1.00	44.20	A16S
ATOM	12661	C5*	A	A	611	132.391	93.216	8.599	1.00	44.20	A16S
ATOM	12662	C4*	A	A	611	132.193	94.247	7.518	1.00	44.20	A16S
ATOM	12663	O4*	A	A	611	131.256	93.733	6.541	1.00	44.20	A16S
ATOM	12664	C1*	A	A	611	130.469	94.789	6.030	1.00	44.20	A16S
ATOM	12665	N9	A	A	611	129.074	94.486	6.317	1.00	64.17	A16S
ATOM	12666	C4	A	A	611	127.995	95.020	5.669	1.00	64.17	A16S
ATOM	12667	N3	A	A	611	128.012	95.897	4.654	1.00	64.17	A16S
ATOM	12668	C2	A	A	611	126.773	96.202	4.277	1.00	64.17	A16S
ATOM	12669	N1	A	A	611	125.611	95.765	4.766	1.00	64.17	A16S
ATOM	12670	C6	A	A	611	125.634	94.882	5.791	1.00	64.17	A16S
ATOM	12671	N6	A	A	611	124.474	94.443	6.288	1.00	64.17	A16S
ATOM	12672	C5	A	A	611	126.885	94.478	6.276	1.00	64.17	A16S
ATOM	12673	N7	A	A	611	127.256	93.604	7.286	1.00	64.17	A16S
ATOM	12674	C8	A	A	611	128.562	93.643	7.268	1.00	64.17	A16S
ATOM	12675	C2*	A	A	611	130.934	96.086	6.692	1.00	44.20	A16S
ATOM	12676	O2*	A	A	611	131.835	96.754	5.838	1.00	44.20	A16S
ATOM	12677	C3*	A	A	611	131.592	95.565	7.964	1.00	44.20	A16S
ATOM	12678	O3*	A	A	611	132.559	96.453	8.516	1.00	44.20	A16S
ATOM	12679	P	C	A	612	132.194	97.273	9.852	1.00	52.41	A16S
ATOM	12680	O1P	C	A	612	133.403	98.000	10.306	1.00	44.94	A16S
ATOM	12681	O2P	C	A	612	131.506	96.350	10.787	1.00	44.94	A16S
ATOM	12682	O5*	C	A	612	131.109	98.316	9.349	1.00	52.41	A16S
ATOM	12683	C5*	C	A	612	131.448	99.277	8.351	1.00	52.41	A16S
ATOM	12684	C4*	C	A	612	130.265	100.161	8.064	1.00	52.41	A16S
ATOM	12685	O4*	C	A	612	129.296	99.457	7.251	1.00	52.41	A16S
ATOM	12686	C1*	C	A	612	127.991	99.863	7.616	1.00	52.41	A16S
ATOM	12687	N1	C	A	612	127.261	98.672	8.059	1.00	44.94	A16S
ATOM	12688	C6	C	A	612	127.906	97.671	8.725	1.00	44.94	A16S
ATOM	12689	C2	C	A	612	125.897	98.583	7.798	1.00	44.94	A16S
ATOM	12690	O2	C	A	612	125.342	99.505	7.193	1.00	44.94	A16S
ATOM	12691	N3	C	A	612	125.217	97.500	8.215	1.00	44.94	A16S
ATOM	12692	C4	C	A	612	125.851	96.533	8.875	1.00	44.94	A16S
ATOM	12693	N4	C	A	612	125.139	95.484	9.287	1.00	44.94	A16S
ATOM	12694	C5	C	A	612	127.247	96.597	9.149	1.00	44.94	A16S
ATOM	12695	C2*	C	A	612	128.113	100.922	8.718	1.00	52.41	A16S
ATOM	12696	O2*	C	A	612	128.039	102.218	8.166	1.00	52.41	A16S

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ATOM  12697  C3* C   A 612     129.491 100.619   9.285  1.00 52.41      A16S
ATOM  12698  O3* C   A 612     130.089 101.751   9.882  1.00 52.41      A16S
ATOM  12699  P   C   A 613     129.955 101.960  11.457  1.00 46.61      A16S
ATOM  12700  O1P C   A 613     130.781 103.151  11.800  1.00 58.32      A16S
ATOM  12701  O2P C   A 613     130.224 100.665  12.135  1.00 58.32      A16S
ATOM  12702  O5* C   A 613     128.410 102.310  11.627  1.00 46.61      A16S
ATOM  12703  C5* C   A 613     127.916 103.589  11.209  1.00 46.61      A16S
ATOM  12704  C4* C   A 613     126.443 103.731  11.509  1.00 46.61      A16S
ATOM  12705  O4* C   A 613     125.663 102.893  10.619  1.00 46.61      A16S
ATOM  12706  C1* C   A 613     124.478 102.478  11.282  1.00 46.61      A16S
ATOM  12707  N1  C   A 613     124.483 101.003  11.396  1.00 58.32      A16S
ATOM  12708  C6  C   A 613     125.658 100.314  11.509  1.00 58.32      A16S
ATOM  12709  C2  C   A 613     123.267 100.317  11.406  1.00 58.32      A16S
ATOM  12710  O2  C   A 613     122.221 100.953  11.285  1.00 58.32      A16S
ATOM  12711  N3  C   A 613     123.266  98.977  11.544  1.00 58.32      A16S
ATOM  12712  C4  C   A 613     124.418  98.320  11.664  1.00 58.32      A16S
ATOM  12713  N4  C   A 613     124.375  97.000  11.803  1.00 58.32      A16S
ATOM  12714  C5  C   A 613     125.669  98.987  11.648  1.00 58.32      A16S
ATOM  12715  C2* C   A 613     124.477 103.133  12.667  1.00 46.61      A16S
ATOM  12716  O2* C   A 613     123.790 104.365  12.632  1.00 46.61      A16S
ATOM  12717  C3* C   A 613     125.957 103.367  12.903  1.00 46.61      A16S
ATOM  12718  O3* C   A 613     126.136 104.398  13.856  1.00 46.61      A16S
ATOM  12719  P   A   A 614     126.152 104.030  15.423  1.00 67.08      A16S
ATOM  12720  O1P A   A 614     126.505 105.269  16.172  1.00 60.69      A16S
ATOM  12721  O2P A   A 614     126.971 102.798  15.616  1.00 60.69      A16S
ATOM  12722  O5* A   A 614     124.634 103.679  15.745  1.00 67.08      A16S
ATOM  12723  C5* A   A 614     123.596 104.637  15.494  1.00 67.08      A16S
ATOM  12724  C4* A   A 614     122.241 104.038  15.781  1.00 67.08      A16S
ATOM  12725  O4* A   A 614     121.897 103.045  14.779  1.00 67.08      A16S
ATOM  12726  C1* A   A 614     121.194 101.975  15.391  1.00 67.08      A16S
ATOM  12727  N9  A   A 614     122.031 100.774  15.307  1.00 60.69      A16S
ATOM  12728  C4  A   A 614     121.625  99.468  15.453  1.00 60.69      A16S
ATOM  12729  N3  A   A 614     120.378  99.015  15.653  1.00 60.69      A16S
ATOM  12730  C2  A   A 614     120.371  97.696  15.762  1.00 60.69      A16S
ATOM  12731  N1  A   A 614     121.389  96.841  15.705  1.00 60.69      A16S
ATOM  12732  C6  A   A 614     122.632  97.329  15.511  1.00 60.69      A16S
ATOM  12733  N6  A   A 614     123.662  96.482  15.475  1.00 60.69      A16S
ATOM  12734  C5  A   A 614     122.774  98.707  15.367  1.00 60.69      A16S
ATOM  12735  N7  A   A 614     123.884  99.508  15.144  1.00 60.69      A16S
ATOM  12736  C8  A   A 614     123.390 100.720  15.108  1.00 60.69      A16S
ATOM  12737  C2* A   A 614     120.965 102.364  16.855  1.00 67.08      A16S
ATOM  12738  O2* A   A 614     119.722 103.020  17.021  1.00 67.08      A16S
ATOM  12739  C3* A   A 614     122.134 103.300  17.099  1.00 67.08      A16S
ATOM  12740  O3* A   A 614     121.927 104.156  18.198  1.00 67.08      A16S
ATOM  12741  P   C   A 615     122.550 103.758  19.618  1.00 66.43      A16S
ATOM  12742  O1P C   A 615     122.401 104.922  20.527  1.00 66.53      A16S
ATOM  12743  O2P C   A 615     123.910 103.184  19.378  1.00 66.53      A16S
ATOM  12744  O5* C   A 615     121.558 102.626  20.134  1.00 66.43      A16S
ATOM  12745  C5* C   A 615     120.185 102.952  20.404  1.00 66.43      A16S
ATOM  12746  C4* C   A 615     119.390 101.709  20.715  1.00 66.43      A16S
ATOM  12747  O4* C   A 615     119.373 100.857  19.542  1.00 66.43      A16S
ATOM  12748  C1* C   A 615     119.419  99.497  19.944  1.00 66.43      A16S
ATOM  12749  N1  C   A 615     120.713  98.926  19.506  1.00 66.53      A16S
ATOM  12750  C6  C   A 615     121.816  99.723  19.383  1.00 66.53      A16S
ATOM  12751  C2  C   A 615     120.805  97.550  19.229  1.00 66.53      A16S
ATOM  12752  O2  C   A 615     119.791  96.837  19.337  1.00 66.53      A16S
ATOM  12753  N3  C   A 615     121.998  97.035  18.851  1.00 66.53      A16S
ATOM  12754  C4  C   A 615     123.065  97.829  18.747  1.00 66.53      A16S
ATOM  12755  N4  C   A 615     124.224  97.282  18.389  1.00 66.53      A16S
ATOM  12756  C5  C   A 615     122.995  99.221  19.010  1.00 66.53      A16S
ATOM  12757  C2* C   A 615     119.302  99.479  21.468  1.00 66.43      A16S
ATOM  12758  O2* C   A 615     117.944  99.470  21.871  1.00 66.43      A16S
ATOM  12759  C3* C   A 615     119.916 100.813  21.828  1.00 66.43      A16S
ATOM  12760  O3* C   A 615     119.507 101.181  23.130  1.00 66.43      A16S
ATOM  12761  P   G   A 616     120.348 100.647  24.394  1.00 73.64      A16S
ATOM  12762  O1P G   A 616     119.650 101.172  25.596  1.00 67.64      A16S
ATOM  12763  O2P G   A 616     121.784 100.957  24.189  1.00 67.64      A16S
ATOM  12764  O5* G   A 616     120.202  99.053  24.355  1.00 73.64      A16S
ATOM  12765  C5* G   A 616     118.926  98.421  24.624  1.00 73.64      A16S
ATOM  12766  C4* G   A 616     118.964  96.928  24.335  1.00 73.64      A16S
ATOM  12767  O4* G   A 616     119.359  96.688  22.964  1.00 73.64      A16S
ATOM  12768  C1* G   A 616     120.028  95.445  22.875  1.00 73.64      A16S
ATOM  12769  N9  G   A 616     121.368  95.666  22.350  1.00 67.64      A16S
ATOM  12770  C4  G   A 616     122.236  94.694  21.919  1.00 67.64      A16S
ATOM  12771  N3  G   A 616     121.992  93.367  21.904  1.00 67.64      A16S
ATOM  12772  C2  G   A 616     123.018  92.689  21.448  1.00 67.64      A16S
ATOM  12773  N2  G   A 616     122.949  91.362  21.385  1.00 67.64      A16S
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ATOM  12774  N1  G   A 616     124.190  93.265  21.027  1.00 67.64      A16S
ATOM  12775  C6  G   A 616     124.459  94.634  21.037  1.00 67.64      A16S
ATOM  12776  O6  G   A 616     125.556  95.062  20.643  1.00 67.64      A16S
ATOM  12777  C5  G   A 616     123.369  95.367  21.529  1.00 67.64      A16S
ATOM  12778  N7  G   A 616     123.218  96.732  21.705  1.00 67.64      A16S
ATOM  12779  C8  G   A 616     122.017  96.863  22.194  1.00 67.64      A16S
ATOM  12780  C2* G   A 616     120.070  94.831  24.268  1.00 73.64      A16S
ATOM  12781  O2* G   A 616     119.004  93.915  24.369  1.00 73.64      A16S
ATOM  12782  C3* G   A 616     119.896  96.055  25.154  1.00 73.64      A16S
ATOM  12783  O3* G   A 616     119.291  95.677  26.373  1.00 73.64      A16S
ATOM  12784  P   G   A 617     120.200  95.110  27.563  1.00 52.79      A16S
ATOM  12785  O1P G   A 617     119.299  94.965  28.728  1.00 67.71      A16S
ATOM  12786  O2P G   A 617     121.421  95.956  27.673  1.00 67.71      A16S
ATOM  12787  O5* G   A 617     120.642  93.651  27.084  1.00 52.79      A16S
ATOM  12788  C5* G   A 617     119.768  92.507  27.250  1.00 52.79      A16S
ATOM  12789  C4* G   A 617     120.532  91.213  27.073  1.00 52.79      A16S
ATOM  12790  O4* G   A 617     121.051  91.141  25.725  1.00 52.79      A16S
ATOM  12791  C1* G   A 617     122.302  90.471  25.724  1.00 52.79      A16S
ATOM  12792  N9  G   A 617     123.325  91.350  25.162  1.00 67.71      A16S
ATOM  12793  C4  G   A 617     124.556  90.963  24.696  1.00 67.71      A16S
ATOM  12794  N3  G   A 617     125.036  89.701  24.675  1.00 67.71      A16S
ATOM  12795  C2  G   A 617     126.259  89.644  24.170  1.00 67.71      A16S
ATOM  12796  N2  G   A 617     126.892  88.463  24.070  1.00 67.71      A16S
ATOM  12797  N1  G   A 617     126.953  90.740  23.724  1.00 67.71      A16S
ATOM  12798  C6  G   A 617     126.477  92.047  23.737  1.00 67.71      A16S
ATOM  12799  O6  G   A 617     127.188  92.967  23.313  1.00 67.71      A16S
ATOM  12800  C5  G   A 617     125.168  92.121  24.273  1.00 67.71      A16S
ATOM  12801  N7  G   A 617     124.340  93.216  24.469  1.00 67.71      A16S
ATOM  12802  C8  G   A 617     123.261  92.713  24.997  1.00 67.71      A16S
ATOM  12803  C2* G   A 617     122.612  90.059  27.159  1.00 52.79      A16S
ATOM  12804  O2* G   A 617     122.254  88.699  27.307  1.00 52.79      A16S
ATOM  12805  C3* G   A 617     121.750  91.032  27.956  1.00 52.79      A16S
ATOM  12806  O3* G   A 617     121.398  90.511  29.224  1.00 52.79      A16S
ATOM  12807  P   C   A 618     122.246  90.939  30.522  1.00 53.50      A16S
ATOM  12808  O1P C   A 618     121.598  90.241  31.676  1.00 67.51      A16S
ATOM  12809  O2P C   A 618     122.367  92.424  30.527  1.00 67.51      A16S
ATOM  12810  O5* C   A 618     123.703  90.311  30.303  1.00 53.50      A16S
ATOM  12811  C5* C   A 618     123.913  88.912  30.557  1.00 53.50      A16S
ATOM  12812  C4* C   A 618     125.295  88.444  30.142  1.00 53.50      A16S
ATOM  12813  O4* C   A 618     125.570  88.731  28.752  1.00 53.50      A16S
ATOM  12814  C1* C   A 618     126.931  88.447  28.525  1.00 53.50      A16S
ATOM  12815  N1  C   A 618     127.543  89.415  27.605  1.00 67.51      A16S
ATOM  12816  C6  C   A 618     127.211  90.739  27.614  1.00 67.51      A16S
ATOM  12817  C2  C   A 618     128.519  88.943  26.726  1.00 67.51      A16S
ATOM  12818  O2  C   A 618     128.778  87.728  26.713  1.00 67.51      A16S
ATOM  12819  N3  C   A 618     129.156  89.807  25.915  1.00 67.51      A16S
ATOM  12820  C4  C   A 618     128.851  91.095  25.950  1.00 67.51      A16S
ATOM  12821  N4  C   A 618     129.530  91.906  25.147  1.00 67.51      A16S
ATOM  12822  C5  C   A 618     127.839  91.607  26.812  1.00 67.51      A16S
ATOM  12823  C2* C   A 618     127.638  88.411  29.879  1.00 53.50      A16S
ATOM  12824  O2* C   A 618     127.985  87.063  30.131  1.00 53.50      A16S
ATOM  12825  C3* C   A 618     126.561  88.926  30.835  1.00 53.50      A16S
ATOM  12826  O3* C   A 618     126.745  88.295  32.105  1.00 53.50      A16S
ATOM  12827  P   U   A 619     128.109  88.535  32.951  1.00 54.09      A16S
ATOM  12828  O1P U   A 619     129.256  87.970  32.193  1.00 55.35      A16S
ATOM  12829  O2P U   A 619     127.872  88.090  34.354  1.00 55.35      A16S
ATOM  12830  O5* U   A 619     128.318  90.114  32.960  1.00 54.09      A16S
ATOM  12831  C5* U   A 619     127.269  90.979  33.390  1.00 54.09      A16S
ATOM  12832  C4* U   A 619     127.824  92.306  33.822  1.00 54.09      A16S
ATOM  12833  O4* U   A 619     128.666  92.148  34.986  1.00 54.09      A16S
ATOM  12834  C1* U   A 619     129.659  93.149  34.980  1.00 54.09      A16S
ATOM  12835  N1  U   A 619     130.972  92.502  35.087  1.00 55.35      A16S
ATOM  12836  C6  U   A 619     131.225  91.300  34.489  1.00 55.35      A16S
ATOM  12837  C2  U   A 619     131.952  93.150  35.813  1.00 55.35      A16S
ATOM  12838  O2  U   A 619     131.780  94.227  36.357  1.00 55.35      A16S
ATOM  12839  N3  U   A 619     133.147  92.494  35.880  1.00 55.35      A16S
ATOM  12840  C4  U   A 619     133.461  91.293  35.314  1.00 55.35      A16S
ATOM  12841  O4  U   A 619     134.560  90.794  35.540  1.00 55.35      A16S
ATOM  12842  C5  U   A 619     132.405  90.692  34.572  1.00 55.35      A16S
ATOM  12843  C2* U   A 619     129.484  93.983  33.707  1.00 54.09      A16S
ATOM  12844  O2* U   A 619     128.757  95.157  34.017  1.00 54.09      A16S
ATOM  12845  C3* U   A 619     128.691  93.035  32.819  1.00 54.09      A16S
ATOM  12846  O3* U   A 619     127.877  93.727  31.881  1.00 54.09      A16S
ATOM  12847  P   C   A 620     127.997  93.370  30.322  1.00 40.99      A16S
ATOM  12848  O1P C   A 620     126.820  93.927  29.577  1.00 39.38      A16S
ATOM  12849  O2P C   A 620     128.325  91.926  30.216  1.00 39.38      A16S
ATOM  12850  O5* C   A 620     129.299  94.157  29.889  1.00 40.99      A16S
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ATOM  12851  C5* C   A 620     129.379  95.553  30.106  1.00 40.99      A16S
ATOM  12852  C4* C   A 620     130.688  96.064  29.614  1.00 40.99      A16S
ATOM  12853  O4* C   A 620     131.741  95.488  30.411  1.00 40.99      A16S
ATOM  12854  C1* C   A 620     132.923  95.464  29.651  1.00 40.99      A16S
ATOM  12855  N1   C   A 620     133.606  94.179  29.849  1.00 39.38      A16S
ATOM  12856  C6   C   A 620     132.921  93.051  30.202  1.00 39.38      A16S
ATOM  12857  C2   C   A 620     134.989  94.139  29.689  1.00 39.38      A16S
ATOM  12858  O2   C   A 620     135.577  95.163  29.325  1.00 39.38      A16S
ATOM  12859  N3   C   A 620     135.653  92.992  29.928  1.00 39.38      A16S
ATOM  12860  C4   C   A 620     134.986  91.906  30.311  1.00 39.38      A16S
ATOM  12861  N4   C   A 620     135.693  90.806  30.582  1.00 39.38      A16S
ATOM  12862  C5   C   A 620     133.568  91.902  30.444  1.00 39.38      A16S
ATOM  12863  C2* C   A 620     132.566  95.822  28.210  1.00 40.99      A16S
ATOM  12864  O2* C   A 620     132.923  97.175  28.006  1.00 40.99      A16S
ATOM  12865  C3* C   A 620     131.057  95.652  28.208  1.00 40.99      A16S
ATOM  12866  O3* C   A 620     130.437  96.479  27.246  1.00 40.99      A16S
ATOM  12867  P    A   A 621     129.957  95.833  25.861  1.00 42.36      A16S
ATOM  12868  O1P A   A 621     129.294  96.858  25.016  1.00 61.14      A16S
ATOM  12869  O2P A   A 621     129.216  94.604  26.214  1.00 61.14      A16S
ATOM  12870  O5* A   A 621     131.330  95.431  25.162  1.00 42.36      A16S
ATOM  12871  C5* A   A 621     132.281  96.441  24.817  1.00 42.36      A16S
ATOM  12872  C4* A   A 621     133.630  95.829  24.548  1.00 42.36      A16S
ATOM  12873  O4* A   A 621     134.129  95.185  25.747  1.00 42.36      A16S
ATOM  12874  C1* A   A 621     134.837  94.009  25.401  1.00 42.36      A16S
ATOM  12875  N9   A   A 621     134.141  92.875  26.017  1.00 61.14      A16S
ATOM  12876  C4   A   A 621     134.675  91.651  26.333  1.00 61.14      A16S
ATOM  12877  N3   A   A 621     135.927  91.229  26.114  1.00 61.14      A16S
ATOM  12878  C2   A   A 621     136.090  89.997  26.569  1.00 61.14      A16S
ATOM  12879  N1   A   A 621     135.213  89.197  27.182  1.00 61.14      A16S
ATOM  12880  C6   A   A 621     133.965  89.654  27.393  1.00 61.14      A16S
ATOM  12881  N6   A   A 621     133.100  88.867  28.027  1.00 61.14      A16S
ATOM  12882  C5   A   A 621     133.658  90.939  26.940  1.00 61.14      A16S
ATOM  12883  N7   A   A 621     132.490  91.684  26.979  1.00 61.14      A16S
ATOM  12884  C8   A   A 621     132.826  92.819  26.419  1.00 61.14      A16S
ATOM  12885  C2* A   A 621     134.899  93.946  23.871  1.00 42.36      A16S
ATOM  12886  O2* A   A 621     136.104  94.550  23.425  1.00 42.36      A16S
ATOM  12887  C3* A   A 621     133.670  94.757  23.476  1.00 42.36      A16S
ATOM  12888  O3* A   A 621     133.792  95.337  22.184  1.00 42.36      A16S
ATOM  12889  P    A   A 622     133.102  94.620  20.926  1.00 38.20      A16S
ATOM  12890  O1P A   A 622     133.433  95.437  19.734  1.00 54.22      A16S
ATOM  12891  O2P A   A 622     131.675  94.361  21.251  1.00 54.22      A16S
ATOM  12892  O5* A   A 622     133.899  93.237  20.815  1.00 38.20      A16S
ATOM  12893  C5* A   A 622     135.251  93.222  20.296  1.00 38.20      A16S
ATOM  12894  C4* A   A 622     135.901  91.856  20.434  1.00 38.20      A16S
ATOM  12895  O4* A   A 622     136.087  91.518  21.831  1.00 38.20      A16S
ATOM  12896  C1* A   A 622     135.955  90.120  21.998  1.00 38.20      A16S
ATOM  12897  N9   A   A 622     134.710  89.863  22.709  1.00 54.22      A16S
ATOM  12898  C4   A   A 622     134.427  88.744  23.444  1.00 54.22      A16S
ATOM  12899  N3   A   A 622     135.249  87.717  23.705  1.00 54.22      A16S
ATOM  12900  C2   A   A 622     134.631  86.808  24.444  1.00 54.22      A16S
ATOM  12901  N1   A   A 622     133.380  86.805  24.905  1.00 54.22      A16S
ATOM  12902  C6   A   A 622     132.581  87.848  24.606  1.00 54.22      A16S
ATOM  12903  N6   A   A 622     131.323  87.832  25.036  1.00 54.22      A16S
ATOM  12904  C5   A   A 622     133.118  88.882  23.850  1.00 54.22      A16S
ATOM  12905  N7   A   A 622     132.589  90.081  23.405  1.00 54.22      A16S
ATOM  12906  C8   A   A 622     133.576  90.630  22.745  1.00 54.22      A16S
ATOM  12907  C2* A   A 622     135.796  89.504  20.612  1.00 38.20      A16S
ATOM  12908  O2* A   A 622     137.053  89.106  20.116  1.00 38.20      A16S
ATOM  12909  C3* A   A 622     135.181  90.658  19.838  1.00 38.20      A16S
ATOM  12910  O3* A   A 622     135.392  90.503  18.445  1.00 38.20      A16S
ATOM  12911  P    C   A 623     134.128  90.271  17.483  1.00 40.99      A16S
ATOM  12912  O1P C   A 623     134.675  89.754  16.206  1.00 49.77      A16S
ATOM  12913  O2P C   A 623     133.305  91.503  17.475  1.00 49.77      A16S
ATOM  12914  O5* C   A 623     133.259  89.147  18.213  1.00 40.99      A16S
ATOM  12915  C5* C   A 623     133.761  87.794  18.383  1.00 40.99      A16S
ATOM  12916  C4* C   A 623     132.752  86.930  19.121  1.00 40.99      A16S
ATOM  12917  O4* C   A 623     132.660  87.360  20.502  1.00 40.99      A16S
ATOM  12918  C1* C   A 623     131.314  87.299  20.933  1.00 40.99      A16S
ATOM  12919  N1   C   A 623     130.852  88.671  21.159  1.00 49.77      A16S
ATOM  12920  C6   C   A 623     131.575  89.731  20.697  1.00 49.77      A16S
ATOM  12921  C2   C   A 623     129.656  88.880  21.841  1.00 49.77      A16S
ATOM  12922  O2   C   A 623     129.009  87.906  22.232  1.00 49.77      A16S
ATOM  12923  N3   C   A 623     129.231  90.139  22.047  1.00 49.77      A16S
ATOM  12924  C4   C   A 623     129.949  91.165  21.596  1.00 49.77      A16S
ATOM  12925  N4   C   A 623     129.498  92.395  21.829  1.00 49.77      A16S
ATOM  12926  C5   C   A 623     131.163  90.980  20.888  1.00 49.77      A16S
ATOM  12927  C2* C   A 623     130.502  86.647  19.820  1.00 40.99      A16S
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ATOM  12928  O2*  C   A  623     130.443  85.262  20.038  1.00 40.99      A16S
ATOM  12929  C3*  C   A  623     131.327  86.992  18.595  1.00 40.99      A16S
ATOM  12930  O3*  C   A  623     131.086  86.078  17.536  1.00 40.99      A16S
ATOM  12931  P    C   A  624     129.961  86.421  16.437  1.00 40.64      A16S
ATOM  12932  O1P  C   A  624     129.857  85.246  15.528  1.00 57.83      A16S
ATOM  12933  O2P  C   A  624     130.258  87.761  15.872  1.00 57.83      A16S
ATOM  12934  O5*  C   A  624     128.613  86.531  17.274  1.00 40.64      A16S
ATOM  12935  C5*  C   A  624     128.065  85.375  17.910  1.00 40.64      A16S
ATOM  12936  C4*  C   A  624     126.831  85.739  18.687  1.00 40.64      A16S
ATOM  12937  O4*  C   A  624     127.182  86.642  19.759  1.00 40.64      A16S
ATOM  12938  C1*  C   A  624     126.086  87.493  20.024  1.00 40.64      A16S
ATOM  12939  N1   C   A  624     126.535  88.883  19.967  1.00 57.83      A16S
ATOM  12940  C6   C   A  624     127.586  89.254  19.185  1.00 57.83      A16S
ATOM  12941  C2   C   A  624     125.845  89.825  20.713  1.00 57.83      A16S
ATOM  12942  O2   C   A  624     124.905  89.447  21.437  1.00 57.83      A16S
ATOM  12943  N3   C   A  624     126.205  91.117  20.634  1.00 57.83      A16S
ATOM  12944  C4   C   A  624     127.212  91.475  19.847  1.00 57.83      A16S
ATOM  12945  N4   C   A  624     127.511  92.768  19.770  1.00 57.83      A16S
ATOM  12946  C5   C   A  624     127.952  90.527  19.096  1.00 57.83      A16S
ATOM  12947  C2*  C   A  624     124.981  87.208  19.004  1.00 40.64      A16S
ATOM  12948  O2*  C   A  624     123.959  86.470  19.633  1.00 40.64      A16S
ATOM  12949  C3*  C   A  624     125.742  86.460  17.913  1.00 40.64      A16S
ATOM  12950  O3*  C   A  624     124.924  85.527  17.231  1.00 40.64      A16S
ATOM  12951  P    G   A  625     124.033  86.010  15.998  1.00 33.00      A16S
ATOM  12952  O1P  G   A  625     123.534  84.816  15.301  1.00 49.11      A16S
ATOM  12953  O2P  G   A  625     124.789  87.024  15.240  1.00 49.11      A16S
ATOM  12954  O5*  G   A  625     122.782  86.708  16.686  1.00 33.00      A16S
ATOM  12955  C5*  G   A  625     121.851  85.945  17.476  1.00 33.00      A16S
ATOM  12956  C4*  G   A  625     120.789  86.851  18.060  1.00 33.00      A16S
ATOM  12957  O4*  G   A  625     121.395  87.777  19.000  1.00 33.00      A16S
ATOM  12958  C1*  G   A  625     120.743  89.033  18.920  1.00 33.00      A16S
ATOM  12959  N9   G   A  625     121.736  90.051  18.583  1.00 49.11      A16S
ATOM  12960  C4   G   A  625     121.554  91.420  18.618  1.00 49.11      A16S
ATOM  12961  N3   G   A  625     120.427  92.064  18.985  1.00 49.11      A16S
ATOM  12962  C2   G   A  625     120.564  93.371  18.916  1.00 49.11      A16S
ATOM  12963  N2   G   A  625     119.547  94.166  19.262  1.00 49.11      A16S
ATOM  12964  N1   G   A  625     121.707  93.995  18.508  1.00 49.11      A16S
ATOM  12965  C6   G   A  625     122.875  93.354  18.125  1.00 49.11      A16S
ATOM  12966  O6   G   A  625     123.849  94.014  17.769  1.00 49.11      A16S
ATOM  12967  C5   G   A  625     122.750  91.955  18.205  1.00 49.11      A16S
ATOM  12968  N7   G   A  625     123.670  90.954  17.923  1.00 49.11      A16S
ATOM  12969  C8   G   A  625     123.028  89.845  18.163  1.00 49.11      A16S
ATOM  12970  C2*  G   A  625     119.619  88.923  17.886  1.00 33.00      A16S
ATOM  12971  O2*  G   A  625     118.399  88.708  18.554  1.00 33.00      A16S
ATOM  12972  C3*  G   A  625     120.074  87.732  17.049  1.00 33.00      A16S
ATOM  12973  O3*  G   A  625     118.992  87.046  16.428  1.00 33.00      A16S
ATOM  12974  P    U   A  626     118.488  87.524  14.985  1.00 51.68      A16S
ATOM  12975  O1P  U   A  626     117.498  86.564  14.435  1.00 48.68      A16S
ATOM  12976  O2P  U   A  626     119.728  87.832  14.219  1.00 48.68      A16S
ATOM  12977  O5*  U   A  626     117.710  88.873  15.312  1.00 51.68      A16S
ATOM  12978  C5*  U   A  626     116.616  88.871  16.246  1.00 51.68      A16S
ATOM  12979  C4*  U   A  626     116.099  90.271  16.465  1.00 51.68      A16S
ATOM  12980  O4*  U   A  626     117.021  91.039  17.277  1.00 51.68      A16S
ATOM  12981  C1*  U   A  626     117.037  92.388  16.829  1.00 51.68      A16S
ATOM  12982  N1   U   A  626     118.402  92.720  16.379  1.00 48.68      A16S
ATOM  12983  C6   U   A  626     119.289  91.743  16.001  1.00 48.68      A16S
ATOM  12984  C2   U   A  626     118.776  94.057  16.354  1.00 48.68      A16S
ATOM  12985  O2   U   A  626     118.021  94.969  16.657  1.00 48.68      A16S
ATOM  12986  N3   U   A  626     120.066  94.288  15.958  1.00 48.68      A16S
ATOM  12987  C4   U   A  626     120.990  93.359  15.584  1.00 48.68      A16S
ATOM  12988  O4   U   A  626     122.115  93.726  15.285  1.00 48.68      A16S
ATOM  12989  C5   U   A  626     120.532  92.014  15.615  1.00 48.68      A16S
ATOM  12990  C2*  U   A  626     116.010  92.518  15.704  1.00 51.68      A16S
ATOM  12991  O2*  U   A  626     114.765  92.973  16.200  1.00 51.68      A16S
ATOM  12992  C3*  U   A  626     115.936  91.090  15.203  1.00 51.68      A16S
ATOM  12993  O3*  U   A  626     114.729  90.840  14.544  1.00 51.68      A16S
ATOM  12994  P    G   A  627     114.648  91.128  12.982  1.00 46.27      A16S
ATOM  12995  O1P  G   A  627     113.278  90.763  12.540  1.00 70.84      A16S
ATOM  12996  O2P  G   A  627     115.824  90.503  12.331  1.00 70.84      A16S
ATOM  12997  O5*  G   A  627     114.836  92.703  12.889  1.00 46.27      A16S
ATOM  12998  C5*  G   A  627     113.825  93.580  13.379  1.00 46.27      A16S
ATOM  12999  C4*  G   A  627     114.223  95.007  13.153  1.00 46.27      A16S
ATOM  13000  O4*  G   A  627     115.389  95.299  13.953  1.00 46.27      A16S
ATOM  13001  C1*  G   A  627     116.183  96.272  13.297  1.00 46.27      A16S
ATOM  13002  N9   G   A  627     117.537  95.756  13.151  1.00 70.84      A16S
ATOM  13003  C4   G   A  627     118.670  96.488  12.892  1.00 70.84      A16S
ATOM  13004  N3   G   A  627     118.736  97.823  12.743  1.00 70.84      A16S
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ATOM  13005  C2  G   A 627     119.965  98.229  12.496  1.00 70.84       A16S
ATOM  13006  N2  G   A 627     120.217  99.521  12.322  1.00 70.84       A16S
ATOM  13007  N1  G   A 627     121.038  97.398  12.399  1.00 70.84       A16S
ATOM  13008  C6  G   A 627     120.991  96.023  12.542  1.00 70.84       A16S
ATOM  13009  O6  G   A 627     122.018  95.359  12.416  1.00 70.84       A16S
ATOM  13010  C5  G   A 627     119.685  95.573  12.818  1.00 70.84       A16S
ATOM  13011  N7  G   A 627     119.210  94.291  13.043  1.00 70.84       A16S
ATOM  13012  C8  G   A 627     117.932  94.449  13.234  1.00 70.84       A16S
ATOM  13013  C2* G   A 627     115.518  96.598  11.960  1.00 46.27       A16S
ATOM  13014  O2* G   A 627     114.770  97.790  12.090  1.00 46.27       A16S
ATOM  13015  C3* G   A 627     114.637  95.376  11.743  1.00 46.27       A16S
ATOM  13016  O3* G   A 627     113.525  95.691  10.925  1.00 46.27       A16S
ATOM  13017  P   G   A 628     113.722  95.786   9.330  1.00 61.04       A16S
ATOM  13018  O1P G   A 628     112.386  96.041   8.724  1.00 63.38       A16S
ATOM  13019  O2P G   A 628     114.511  94.608   8.891  1.00 63.38       A16S
ATOM  13020  O5* G   A 628     114.627  97.083   9.128  1.00 61.04       A16S
ATOM  13021  C5* G   A 628     114.143  98.375   9.509  1.00 61.04       A16S
ATOM  13022  C4* G   A 628     115.220  99.412   9.327  1.00 61.04       A16S
ATOM  13023  O4* G   A 628     116.347  99.121  10.191  1.00 61.04       A16S
ATOM  13024  C1* G   A 628     117.548  99.541   9.561  1.00 61.04       A16S
ATOM  13025  N9  G   A 628     118.450  98.395   9.452  1.00 63.38       A16S
ATOM  13026  C4  G   A 628     119.803  98.443   9.210  1.00 63.38       A16S
ATOM  13027  N3  G   A 628     120.542  99.559   9.048  1.00 63.38       A16S
ATOM  13028  C2  G   A 628     121.809  99.277   8.801  1.00 63.38       A16S
ATOM  13029  N2  G   A 628     122.685 100.267   8.607  1.00 63.38       A16S
ATOM  13030  N1  G   A 628     122.309  98.003   8.724  1.00 63.38       A16S
ATOM  13031  C6  G   A 628     121.565  96.844   8.884  1.00 63.38       A16S
ATOM  13032  O6  G   A 628     122.106  95.751   8.775  1.00 63.38       A16S
ATOM  13033  C5  G   A 628     120.211  97.126   9.154  1.00 63.38       A16S
ATOM  13034  N7  G   A 628     119.145  96.269   9.378  1.00 63.38       A16S
ATOM  13035  C8  G   A 628     118.123  97.063   9.551  1.00 63.38       A16S
ATOM  13036  C2* G   A 628     117.178 100.143   8.200  1.00 61.04       A16S
ATOM  13037  O2* G   A 628     117.107 101.554   8.298  1.00 61.04       A16S
ATOM  13038  C3* G   A 628     115.815  99.515   7.935  1.00 61.04       A16S
ATOM  13039  O3* G   A 628     115.008 100.341   7.107  1.00 61.04       A16S
ATOM  13040  P   G   A 629     115.015 100.124   5.517  1.00 78.16       A16S
ATOM  13041  O1P G   A 629     113.924 100.964   4.959  1.00 85.22       A16S
ATOM  13042  O2P G   A 629     115.043  98.673   5.214  1.00 85.22       A16S
ATOM  13043  O5* G   A 629     116.409 100.740   5.068  1.00 78.16       A16S
ATOM  13044  C5* G   A 629     116.642 102.152   5.145  1.00 78.16       A16S
ATOM  13045  C4* G   A 629     118.044 102.467   4.701  1.00 78.16       A16S
ATOM  13046  O4* G   A 629     118.987 101.946   5.675  1.00 78.16       A16S
ATOM  13047  C1* G   A 629     120.148 101.465   5.014  1.00 78.16       A16S
ATOM  13048  N9  G   A 629     120.229 100.020   5.213  1.00 85.22       A16S
ATOM  13049  C4  G   A 629     121.360  99.242   5.149  1.00 85.22       A16S
ATOM  13050  N3  G   A 629     122.616  99.682   4.941  1.00 85.22       A16S
ATOM  13051  C2  G   A 629     123.483  98.685   4.887  1.00 85.22       A16S
ATOM  13052  N2  G   A 629     124.778  98.938   4.675  1.00 85.22       A16S
ATOM  13053  N1  G   A 629     123.146  97.365   5.031  1.00 85.22       A16S
ATOM  13054  C6  G   A 629     121.860  96.889   5.248  1.00 85.22       A16S
ATOM  13055  O6  G   A 629     121.660  95.670   5.354  1.00 85.22       A16S
ATOM  13056  C5  G   A 629     120.920  97.945   5.309  1.00 85.22       A16S
ATOM  13057  N7  G   A 629     119.549  97.911   5.507  1.00 85.22       A16S
ATOM  13058  C8  G   A 629     119.184  99.162   5.452  1.00 85.22       A16S
ATOM  13059  C2* G   A 629     119.979 101.783   3.527  1.00 78.16       A16S
ATOM  13060  O2* G   A 629     120.578 103.030   3.237  1.00 78.16       A16S
ATOM  13061  C3* G   A 629     118.465 101.821   3.395  1.00 78.16       A16S
ATOM  13062  O3* G   A 629     118.026 102.534   2.255  1.00 78.16       A16S
ATOM  13063  P   G   A 630     117.946 101.778   0.839  1.00134.73       A16S
ATOM  13064  O1P G   A 630     117.186 102.638  -0.101  1.00102.64       A16S
ATOM  13065  O2P G   A 630     117.499 100.382   1.075  1.00102.64       A16S
ATOM  13066  O5* G   A 630     119.462 101.736   0.357  1.00134.73       A16S
ATOM  13067  C5* G   A 630     120.272 102.928   0.390  1.00134.73       A16S
ATOM  13068  C4* G   A 630     121.735 102.584   0.226  1.00134.73       A16S
ATOM  13069  O4* G   A 630     122.194 101.784   1.349  1.00134.73       A16S
ATOM  13070  C1* G   A 630     123.143 100.826   0.902  1.00134.73       A16S
ATOM  13071  N9  G   A 630     122.602  99.492   1.162  1.00102.64       A16S
ATOM  13072  C4  G   A 630     123.314  98.320   1.285  1.00102.64       A16S
ATOM  13073  N3  G   A 630     124.656  98.188   1.194  1.00102.64       A16S
ATOM  13074  C2  G   A 630     125.038  96.932   1.348  1.00102.64       A16S
ATOM  13075  N2  G   A 630     126.337  96.613   1.280  1.00102.64       A16S
ATOM  13076  N1  G   A 630     124.172  95.893   1.578  1.00102.64       A16S
ATOM  13077  C6  G   A 630     122.790  96.008   1.677  1.00102.64       A16S
ATOM  13078  O6  G   A 630     122.102  95.008   1.888  1.00102.64       A16S
ATOM  13079  C5  G   A 630     122.367  97.341   1.509  1.00102.64       A16S
ATOM  13080  N7  G   A 630     121.092  97.882   1.530  1.00102.64       A16S
ATOM  13081  C8  G   A 630     121.278  99.156   1.321  1.00102.64       A16S
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ATOM  13082  C2* G   A 630     123.379 101.079  -0.589  1.00134.73      A16S
ATOM  13083  O2* G   A 630     124.506 101.920  -0.755  1.00134.73      A16S
ATOM  13084  C3* G   A 630     122.074 101.753  -0.997  1.00134.73      A16S
ATOM  13085  O3* G   A 630     122.189 102.552  -2.164  1.00134.73      A16S
ATOM  13086  P   G   A 631     121.668 101.971  -3.567  1.00107.45      A16S
ATOM  13087  O1P G   A 631     120.337 101.345  -3.332  1.00156.01      A16S
ATOM  13088  O2P G   A 631     121.804 103.037  -4.593  1.00156.01      A16S
ATOM  13089  O5* G   A 631     122.703 100.802  -3.891  1.00107.45      A16S
ATOM  13090  C5* G   A 631     124.130 101.062  -3.951  1.00107.45      A16S
ATOM  13091  C4* G   A 631     124.904  99.775  -4.182  1.00107.45      A16S
ATOM  13092  O4* G   A 631     124.882  98.952  -2.988  1.00107.45      A16S
ATOM  13093  C1* G   A 631     124.764  97.586  -3.344  1.00107.45      A16S
ATOM  13094  N9  G   A 631     123.524  97.078  -2.755  1.00156.01      A16S
ATOM  13095  C4  G   A 631     123.141  95.761  -2.621  1.00156.01      A16S
ATOM  13096  N3  G   A 631     123.847  94.683  -3.018  1.00156.01      A16S
ATOM  13097  C2  G   A 631     123.210  93.554  -2.757  1.00156.01      A16S
ATOM  13098  N2  G   A 631     123.769  92.382  -3.084  1.00156.01      A16S
ATOM  13099  N1  G   A 631     121.977  93.489  -2.157  1.00156.01      A16S
ATOM  13100  C6  G   A 631     121.231  94.585  -1.740  1.00156.01      A16S
ATOM  13101  O6  G   A 631     120.124  94.415  -1.212  1.00156.01      A16S
ATOM  13102  C5  G   A 631     121.902  95.801  -2.009  1.00156.01      A16S
ATOM  13103  N7  G   A 631     121.516  97.110  -1.759  1.00156.01      A16S
ATOM  13104  C8  G   A 631     122.503  97.831  -2.217  1.00156.01      A16S
ATOM  13105  C2* G   A 631     124.844  97.497  -4.873  1.00107.45      A16S
ATOM  13106  O2* G   A 631     126.185  97.222  -5.232  1.00107.45      A16S
ATOM  13107  C3* G   A 631     124.375  98.891  -5.299  1.00107.45      A16S
ATOM  13108  O3* G   A 631     124.909  99.314  -6.559  1.00107.45      A16S
ATOM  13109  P   A   A 632     123.995 100.177  -7.581  1.00 60.46      A16S
ATOM  13110  O1P A   A 632     124.201 101.629  -7.298  1.00 96.01      A16S
ATOM  13111  O2P A   A 632     122.608  99.628  -7.595  1.00 96.01      A16S
ATOM  13112  O5* A   A 632     124.654  99.881  -9.004  1.00 60.46      A16S
ATOM  13113  C5* A   A 632     125.923 100.446  -9.350  1.00 60.46      A16S
ATOM  13114  C4* A   A 632     126.894  99.362  -9.731  1.00 60.46      A16S
ATOM  13115  O4* A   A 632     127.040  98.421  -8.634  1.00 60.46      A16S
ATOM  13116  C1* A   A 632     127.252  97.114  -9.150  1.00 60.46      A16S
ATOM  13117  N9  A   A 632     126.159  96.245  -8.703  1.00 96.01      A16S
ATOM  13118  C4  A   A 632     126.227  94.882  -8.553  1.00 96.01      A16S
ATOM  13119  N3  A   A 632     127.296  94.093  -8.755  1.00 96.01      A16S
ATOM  13120  C2  A   A 632     126.986  92.819  -8.528  1.00 96.01      A16S
ATOM  13121  N1  A   A 632     125.818  92.287  -8.150  1.00 96.01      A16S
ATOM  13122  C6  A   A 632     124.765  93.111  -7.956  1.00 96.01      A16S
ATOM  13123  N6  A   A 632     123.601  92.582  -7.584  1.00 96.01      A16S
ATOM  13124  C5  A   A 632     124.963  94.481  -8.161  1.00 96.01      A16S
ATOM  13125  N7  A   A 632     124.114  95.571  -8.050  1.00 96.01      A16S
ATOM  13126  C8  A   A 632     124.868  96.590  -8.377  1.00 96.01      A16S
ATOM  13127  C2* A   A 632     127.280  97.227 -10.673  1.00 60.46      A16S
ATOM  13128  O2* A   A 632     128.611  97.344 -11.125  1.00 60.46      A16S
ATOM  13129  C3* A   A 632     126.480  98.499 -10.897  1.00 60.46      A16S
ATOM  13130  O3* A   A 632     126.769  99.101 -12.130  1.00 60.46      A16S
ATOM  13131  P   G   A 633     125.753  98.887 -13.347  1.00 39.28      A16S
ATOM  13132  O1P G   A 633     126.331  99.485 -14.575  1.00 74.64      A16S
ATOM  13133  O2P G   A 633     124.400  99.301 -12.904  1.00 74.64      A16S
ATOM  13134  O5* G   A 633     125.727  97.311 -13.544  1.00 39.28      A16S
ATOM  13135  C5* G   A 633     126.936  96.550 -13.748  1.00 39.28      A16S
ATOM  13136  C4* G   A 633     126.602  95.076 -13.809  1.00 39.28      A16S
ATOM  13137  O4* G   A 633     126.262  94.581 -12.487  1.00 39.28      A16S
ATOM  13138  C1* G   A 633     125.175  93.674 -12.577  1.00 39.28      A16S
ATOM  13139  N9  G   A 633     124.066  94.214 -11.794  1.00 74.64      A16S
ATOM  13140  C4  G   A 633     123.040  93.508 -11.206  1.00 74.64      A16S
ATOM  13141  N3  G   A 633     122.877  92.170 -11.230  1.00 74.64      A16S
ATOM  13142  C2  G   A 633     121.791  91.797 -10.582  1.00 74.64      A16S
ATOM  13143  N2  G   A 633     121.475  90.502 -10.493  1.00 74.64      A16S
ATOM  13144  N1  G   A 633     120.935  92.666  -9.969  1.00 74.64      A16S
ATOM  13145  C6  G   A 633     121.084  94.045  -9.932  1.00 74.64      A16S
ATOM  13146  O6  G   A 633     120.247  94.743  -9.349  1.00 74.64      A16S
ATOM  13147  C5  G   A 633     122.241  94.456 -10.612  1.00 74.64      A16S
ATOM  13148  N7  G   A 633     122.753  95.728 -10.809  1.00 74.64      A16S
ATOM  13149  C8  G   A 633     123.833  95.535 -11.511  1.00 74.64      A16S
ATOM  13150  C2* G   A 633     124.823  93.510 -14.059  1.00 39.28      A16S
ATOM  13151  O2* G   A 633     125.440  92.363 -14.599  1.00 39.28      A16S
ATOM  13152  C3* G   A 633     125.373  94.793 -14.649  1.00 39.28      A16S
ATOM  13153  O3* G   A 633     125.684  94.682 -16.016  1.00 39.28      A16S
ATOM  13154  P   C   A 634     124.589  95.119 -17.088  1.00 26.00      A16S
ATOM  13155  O1P C   A 634     125.146  94.973 -18.458  1.00 47.34      A16S
ATOM  13156  O2P C   A 634     124.066  96.436 -16.645  1.00 47.34      A16S
ATOM  13157  O5* C   A 634     123.472  93.999 -16.913  1.00 26.00      A16S
ATOM  13158  C5* C   A 634     123.723  92.672 -17.409  1.00 26.00      A16S
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ATOM  13159  C4* C   A 634     122.653  91.708 -16.970  1.00 26.00      A16S
ATOM  13160  O4* C   A 634     122.594  91.706 -15.531  1.00 26.00      A16S
ATOM  13161  C1* C   A 634     121.276  91.437 -15.116  1.00 26.00      A16S
ATOM  13162  N1  C   A 634     120.777  92.576 -14.333  1.00 47.34      A16S
ATOM  13163  C6  C   A 634     121.446  93.765 -14.299  1.00 47.34      A16S
ATOM  13164  C2  C   A 634     119.591  92.421 -13.635  1.00 47.34      A16S
ATOM  13165  O2  C   A 634     119.016  91.327 -13.674  1.00 47.34      A16S
ATOM  13166  N3  C   A 634     119.095  93.456 -12.939  1.00 47.34      A16S
ATOM  13167  C4  C   A 634     119.738  94.617 -12.925  1.00 47.34      A16S
ATOM  13168  N4  C   A 634     119.188  95.622 -12.244  1.00 47.34      A16S
ATOM  13169  C5  C   A 634     120.965  94.802 -13.612  1.00 47.34      A16S
ATOM  13170  C2* C   A 634     120.431  91.210 -16.368  1.00 26.00      A16S
ATOM  13171  O2* C   A 634     120.383  89.824 -16.612  1.00 26.00      A16S
ATOM  13172  C3* C   A 634     121.225  91.966 -17.419  1.00 26.00      A16S
ATOM  13173  O3* C   A 634     120.964  91.455 -18.721  1.00 26.00      A16S
ATOM  13174  P   G   A 635     119.753  92.066 -19.595  1.00 36.17      A16S
ATOM  13175  O1P G   A 635     119.766  91.446 -20.958  1.00 39.49      A16S
ATOM  13176  O2P G   A 635     119.812  93.547 -19.460  1.00 39.49      A16S
ATOM  13177  O5* G   A 635     118.442  91.558 -18.850  1.00 36.17      A16S
ATOM  13178  C5* G   A 635     118.073  90.176 -18.901  1.00 36.17      A16S
ATOM  13179  C4* G   A 635     116.692  89.974 -18.341  1.00 36.17      A16S
ATOM  13180  O4* G   A 635     116.694  90.217 -16.914  1.00 36.17      A16S
ATOM  13181  C1* G   A 635     115.433  90.730 -16.524  1.00 36.17      A16S
ATOM  13182  N9  G   A 635     115.619  92.031 -15.894  1.00 39.49      A16S
ATOM  13183  C4  G   A 635     114.696  92.683 -15.133  1.00 39.49      A16S
ATOM  13184  N3  G   A 635     113.472  92.226 -14.826  1.00 39.49      A16S
ATOM  13185  C2  G   A 635     112.812  93.067 -14.065  1.00 39.49      A16S
ATOM  13186  N2  G   A 635     111.582  92.746 -13.642  1.00 39.49      A16S
ATOM  13187  N1  G   A 635     113.309  94.278 -13.659  1.00 39.49      A16S
ATOM  13188  C6  G   A 635     114.563  94.775 -13.983  1.00 39.49      A16S
ATOM  13189  O6  G   A 635     114.908  95.892 -13.589  1.00 39.49      A16S
ATOM  13190  C5  G   A 635     115.287  93.868 -14.773  1.00 39.49      A16S
ATOM  13191  N7  G   A 635     116.567  93.956 -15.291  1.00 39.49      A16S
ATOM  13192  C8  G   A 635     116.722  92.843 -15.949  1.00 39.49      A16S
ATOM  13193  C2* G   A 635     114.559  90.834 -17.771  1.00 36.17      A16S
ATOM  13194  O2* G   A 635     113.746  89.684 -17.825  1.00 36.17      A16S
ATOM  13195  C3* G   A 635     115.603  90.882 -18.878  1.00 36.17      A16S
ATOM  13196  O3* G   A 635     115.090  90.404 -20.106  1.00 36.17      A16S
ATOM  13197  P   U   A 636     114.375  91.425 -21.109  1.00 34.97      A16S
ATOM  13198  O1P U   A 636     113.940  90.673 -22.312  1.00 38.72      A16S
ATOM  13199  O2P U   A 636     115.266  92.587 -21.251  1.00 38.72      A16S
ATOM  13200  O5* U   A 636     113.090  91.915 -20.314  1.00 34.97      A16S
ATOM  13201  C5* U   A 636     111.967  91.040 -20.122  1.00 34.97      A16S
ATOM  13202  C4* U   A 636     110.845  91.758 -19.405  1.00 34.97      A16S
ATOM  13203  O4* U   A 636     111.225  92.068 -18.036  1.00 34.97      A16S
ATOM  13204  C1* U   A 636     110.645  93.298 -17.651  1.00 34.97      A16S
ATOM  13205  N1  U   A 636     111.721  94.251 -17.355  1.00 38.72      A16S
ATOM  13206  C6  U   A 636     112.997  94.044 -17.796  1.00 38.72      A16S
ATOM  13207  C2  U   A 636     111.401  95.378 -16.624  1.00 38.72      A16S
ATOM  13208  O2  U   A 636     110.276  95.602 -16.209  1.00 38.72      A16S
ATOM  13209  N3  U   A 636     112.442  96.240 -16.403  1.00 38.72      A16S
ATOM  13210  C4  U   A 636     113.734  96.099 -16.834  1.00 38.72      A16S
ATOM  13211  O4  U   A 636     114.550  96.992 -16.613  1.00 38.72      A16S
ATOM  13212  C5  U   A 636     113.984  94.905 -17.571  1.00 38.72      A16S
ATOM  13213  C2* U   A 636     109.778  93.777 -18.813  1.00 34.97      A16S
ATOM  13214  O2* U   A 636     108.469  93.288 -18.621  1.00 34.97      A16S
ATOM  13215  C3* U   A 636     110.444  93.095 -19.992  1.00 34.97      A16S
ATOM  13216  O3* U   A 636     109.571  92.946 -21.092  1.00 34.97      A16S
ATOM  13217  P   G   A 637     109.555  94.075 -22.234  1.00 46.77      A16S
ATOM  13218  O1P G   A 637     108.824  93.543 -23.415  1.00 52.73      A16S
ATOM  13219  O2P G   A 637     110.944  94.577 -22.400  1.00 52.73      A16S
ATOM  13220  O5* G   A 637     108.704  95.243 -21.575  1.00 46.77      A16S
ATOM  13221  C5* G   A 637     107.348  95.014 -21.185  1.00 46.77      A16S
ATOM  13222  C4* G   A 637     106.813  96.206 -20.446  1.00 46.77      A16S
ATOM  13223  O4* G   A 637     107.494  96.327 -19.175  1.00 46.77      A16S
ATOM  13224  C1* G   A 637     107.626  97.695 -18.835  1.00 46.77      A16S
ATOM  13225  N9  G   A 637     109.045  98.027 -18.738  1.00 52.73      A16S
ATOM  13226  C4  G   A 637     109.564  99.107 -18.084  1.00 52.73      A16S
ATOM  13227  N3  G   A 637     108.855 100.027 -17.412  1.00 52.73      A16S
ATOM  13228  C2  G   A 637     109.628 100.952 -16.887  1.00 52.73      A16S
ATOM  13229  N2  G   A 637     109.080 101.951 -16.184  1.00 52.73      A16S
ATOM  13230  N1  G   A 637     110.996 100.972 -17.008  1.00 52.73      A16S
ATOM  13231  C6  G   A 637     111.750 100.032 -17.694  1.00 52.73      A16S
ATOM  13232  O6  G   A 637     112.983 100.136 -17.727  1.00 52.73      A16S
ATOM  13233  C5  G   A 637     110.927  99.034 -18.273  1.00 52.73      A16S
ATOM  13234  N7  G   A 637     111.259  97.925 -19.035  1.00 52.73      A16S
ATOM  13235  C8  G   A 637     110.112  97.354 -19.284  1.00 52.73      A16S
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ATOM  13236  C2* G   A 637     106.940  98.505 -19.930  1.00 46.77      A16S
ATOM  13237  O2* G   A 637     105.613  98.758 -19.524  1.00 46.77      A16S
ATOM  13238  C3* G   A 637     107.031  97.550 -21.111  1.00 46.77      A16S
ATOM  13239  O3* G   A 637     106.087  97.820 -22.133  1.00 46.77      A16S
ATOM  13240  P   G   A 638     106.546  98.668 -23.422  1.00 47.17      A16S
ATOM  13241  O1P G   A 638     107.887  98.172 -23.827  1.00 59.85      A16S
ATOM  13242  O2P G   A 638     105.430  98.651 -24.405  1.00 59.85      A16S
ATOM  13243  O5* G   A 638     106.708 100.149 -22.850  1.00 47.17      A16S
ATOM  13244  C5* G   A 638     105.576 100.806 -22.268  1.00 47.17      A16S
ATOM  13245  C4* G   A 638     105.982 102.050 -21.523  1.00 47.17      A16S
ATOM  13246  O4* G   A 638     106.816 101.724 -20.384  1.00 47.17      A16S
ATOM  13247  C1* G   A 638     107.706 102.803 -20.124  1.00 47.17      A16S
ATOM  13248  N9  G   A 638     109.084 102.336 -20.299  1.00 59.85      A16S
ATOM  13249  C4  G   A 638     110.240 102.998 -19.922  1.00 59.85      A16S
ATOM  13250  N3  G   A 638     110.307 104.178 -19.270  1.00 59.85      A16S
ATOM  13251  C2  G   A 638     111.554 104.564 -19.074  1.00 59.85      A16S
ATOM  13252  N2  G   A 638     111.801 105.703 -18.425  1.00 59.85      A16S
ATOM  13253  N1  G   A 638     112.652 103.861 -19.494  1.00 59.85      A16S
ATOM  13254  C6  G   A 638     112.612 102.650 -20.174  1.00 59.85      A16S
ATOM  13255  O6  G   A 638     113.668 102.103 -20.530  1.00 59.85      A16S
ATOM  13256  C5  G   A 638     111.276 102.211 -20.376  1.00 59.85      A16S
ATOM  13257  N7  G   A 638     110.790 101.064 -20.991  1.00 59.85      A16S
ATOM  13258  C8  G   A 638     109.491 101.177 -20.916  1.00 59.85      A16S
ATOM  13259  C2* G   A 638     107.393 103.895 -21.152  1.00 47.17      A16S
ATOM  13260  O2* G   A 638     106.468 104.834 -20.639  1.00 47.17      A16S
ATOM  13261  C3* G   A 638     106.788 103.081 -22.279  1.00 47.17      A16S
ATOM  13262  O3* G   A 638     106.015 103.892 -23.129  1.00 47.17      A16S
ATOM  13263  P   G   A 639     106.694 104.504 -24.444  1.00 55.76      A16S
ATOM  13264  O1P G   A 639     107.507 103.442 -25.097  1.00 46.37      A16S
ATOM  13265  O2P G   A 639     105.615 105.152 -25.210  1.00 46.37      A16S
ATOM  13266  O5* G   A 639     107.664 105.628 -23.861  1.00 55.76      A16S
ATOM  13267  C5* G   A 639     107.123 106.719 -23.102  1.00 55.76      A16S
ATOM  13268  C4* G   A 639     108.216 107.607 -22.554  1.00 55.76      A16S
ATOM  13269  O4* G   A 639     109.032 106.870 -21.606  1.00 55.76      A16S
ATOM  13270  C1* G   A 639     110.346 107.419 -21.572  1.00 55.76      A16S
ATOM  13271  N9  G   A 639     111.316 106.398 -21.966  1.00 46.37      A16S
ATOM  13272  C4  G   A 639     112.686 106.539 -21.943  1.00 46.37      A16S
ATOM  13273  N3  G   A 639     113.361 107.610 -21.488  1.00 46.37      A16S
ATOM  13274  C2  G   A 639     114.661 107.471 -21.643  1.00 46.37      A16S
ATOM  13275  N2  G   A 639     115.478 108.438 -21.239  1.00 46.37      A16S
ATOM  13276  N1  G   A 639     115.256 106.379 -22.203  1.00 46.37      A16S
ATOM  13277  C6  G   A 639     114.587 105.271 -22.687  1.00 46.37      A16S
ATOM  13278  O6  G   A 639     115.225 104.352 -23.200  1.00 46.37      A16S
ATOM  13279  C5  G   A 639     113.183 105.393 -22.514  1.00 46.37      A16S
ATOM  13280  N7  G   A 639     112.151 104.520 -22.843  1.00 46.37      A16S
ATOM  13281  C8  G   A 639     111.066 105.151 -22.488  1.00 46.37      A16S
ATOM  13282  C2* G   A 639     110.372 108.574 -22.572  1.00 55.76      A16S
ATOM  13283  O2* G   A 639     110.156 109.786 -21.880  1.00 55.76      A16S
ATOM  13284  C3* G   A 639     109.232 108.198 -23.513  1.00 55.76      A16S
ATOM  13285  O3* G   A 639     108.752 109.323 -24.220  1.00 55.76      A16S
ATOM  13286  P   A   A 640     109.411 109.701 -25.637  1.00 40.37      A16S
ATOM  13287  O1P A   A 640     108.587 110.792 -26.227  1.00 46.64      A16S
ATOM  13288  O2P A   A 640     109.640 108.455 -26.409  1.00 46.64      A16S
ATOM  13289  O5* A   A 640     110.825 110.303 -25.242  1.00 40.37      A16S
ATOM  13290  C5* A   A 640     110.901 111.414 -24.355  1.00 40.37      A16S
ATOM  13291  C4* A   A 640     112.332 111.837 -24.162  1.00 40.37      A16S
ATOM  13292  O4* A   A 640     113.060 110.842 -23.407  1.00 40.37      A16S
ATOM  13293  C1* A   A 640     114.401 110.808 -23.845  1.00 40.37      A16S
ATOM  13294  N9  A   A 640     114.679 109.472 -24.374  1.00 46.64      A16S
ATOM  13295  C4  A   A 640     115.916 108.910 -24.556  1.00 46.64      A16S
ATOM  13296  N3  A   A 640     117.105 109.469 -24.310  1.00 46.64      A16S
ATOM  13297  C2  A   A 640     118.075 108.625 -24.588  1.00 46.64      A16S
ATOM  13298  N1  A   A 640     118.001 107.379 -25.047  1.00 46.64      A16S
ATOM  13299  C6  A   A 640     116.789 106.848 -25.279  1.00 46.64      A16S
ATOM  13300  N6  A   A 640     116.709 105.598 -25.727  1.00 46.64      A16S
ATOM  13301  C5  A   A 640     115.684 107.637 -25.031  1.00 46.64      A16S
ATOM  13302  N7  A   A 640     114.330 107.397 -25.163  1.00 46.64      A16S
ATOM  13303  C8  A   A 640     113.776 108.517 -24.769  1.00 46.64      A16S
ATOM  13304  C2* A   A 640     114.575 111.918 -24.880  1.00 40.37      A16S
ATOM  13305  O2* A   A 640     115.008 113.071 -24.174  1.00 40.37      A16S
ATOM  13306  C3* A   A 640     113.155 112.065 -25.417  1.00 40.37      A16S
ATOM  13307  O3* A   A 640     112.901 113.370 -25.934  1.00 40.37      A16S
ATOM  13308  P   U   A 641     112.878 113.620 -27.524  1.00 51.32      A16S
ATOM  13309  O1P U   A 641     112.462 115.030 -27.697  1.00 37.50      A16S
ATOM  13310  O2P U   A 641     112.136 112.534 -28.232  1.00 37.50      A16S
ATOM  13311  O5* U   A 641     114.405 113.516 -27.944  1.00 51.32      A16S
ATOM  13312  C5* U   A 641     115.416 114.205 -27.200  1.00 51.32      A16S
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ATOM  13313  C4* U   A 641     116.771 113.855 -27.739  1.00 51.32      A16S
ATOM  13314  O4* U   A 641     117.090 112.477 -27.403  1.00 51.32      A16S
ATOM  13315  C1* U   A 641     117.413 111.775 -28.581  1.00 51.32      A16S
ATOM  13316  N1  U   A 641     116.922 110.392 -28.476  1.00 37.50      A16S
ATOM  13317  C6  U   A 641     115.620 110.068 -28.764  1.00 37.50      A16S
ATOM  13318  C2  U   A 641     117.826 109.420 -28.123  1.00 37.50      A16S
ATOM  13319  O2  U   A 641     118.969 109.667 -27.782  1.00 37.50      A16S
ATOM  13320  N3  U   A 641     117.343 108.142 -28.174  1.00 37.50      A16S
ATOM  13321  C4  U   A 641     116.072 107.751 -28.513  1.00 37.50      A16S
ATOM  13322  O4  U   A 641     115.838 106.561 -28.684  1.00 37.50      A16S
ATOM  13323  C5  U   A 641     115.180 108.817 -28.794  1.00 37.50      A16S
ATOM  13324  C2* U   A 641     116.780 112.547 -29.738  1.00 51.32      A16S
ATOM  13325  O2* U   A 641     117.498 112.334 -30.934  1.00 51.32      A16S
ATOM  13326  C3* U   A 641     116.880 113.982 -29.253  1.00 51.32      A16S
ATOM  13327  O3* U   A 641     118.143 114.487 -29.608  1.00 51.32      A16S
ATOM  13328  P   A   A 642     118.242 115.864 -30.416  1.00 45.67      A16S
ATOM  13329  O1P A   A 642     117.511 116.856 -29.588  1.00 44.08      A16S
ATOM  13330  O2P A   A 642     117.830 115.638 -31.835  1.00 44.08      A16S
ATOM  13331  O5* A   A 642     119.793 116.214 -30.337  1.00 45.67      A16S
ATOM  13332  C5* A   A 642     120.228 117.491 -29.844  1.00 45.67      A16S
ATOM  13333  C4* A   A 642     121.502 117.354 -29.040  1.00 45.67      A16S
ATOM  13334  O4* A   A 642     121.226 116.812 -27.722  1.00 45.67      A16S
ATOM  13335  C1* A   A 642     122.324 116.020 -27.294  1.00 45.67      A16S
ATOM  13336  N9  A   A 642     121.854 114.638 -27.147  1.00 44.08      A16S
ATOM  13337  C4  A   A 642     122.434 113.648 -26.397  1.00 44.08      A16S
ATOM  13338  N3  A   A 642     123.536 113.741 -25.639  1.00 44.08      A16S
ATOM  13339  C2  A   A 642     123.789 112.579 -25.049  1.00 44.08      A16S
ATOM  13340  N1  A   A 642     123.119 111.421 -25.130  1.00 44.08      A16S
ATOM  13341  C6  A   A 642     122.025 111.367 -25.916  1.00 44.08      A16S
ATOM  13342  N6  A   A 642     121.369 110.217 -26.024  1.00 44.08      A16S
ATOM  13343  C5  A   A 642     121.647 112.526 -26.583  1.00 44.08      A16S
ATOM  13344  N7  A   A 642     120.591 112.798 -27.432  1.00 44.08      A16S
ATOM  13345  C8  A   A 642     120.754 114.059 -27.736  1.00 44.08      A16S
ATOM  13346  C2* A   A 642     123.405 116.134 -28.372  1.00 45.67      A16S
ATOM  13347  O2* A   A 642     124.277 117.206 -28.086  1.00 45.67      A16S
ATOM  13348  C3* A   A 642     122.574 116.443 -29.603  1.00 45.67      A16S
ATOM  13349  O3* A   A 642     123.340 117.037 -30.627  1.00 45.67      A16S
ATOM  13350  P   C   A 643     123.852 116.118 -31.839  1.00 42.04      A16S
ATOM  13351  O1P C   A 643     122.712 115.300 -32.316  1.00 50.83      A16S
ATOM  13352  O2P C   A 643     124.595 116.955 -32.807  1.00 50.83      A16S
ATOM  13353  O5* C   A 643     124.874 115.131 -31.119  1.00 42.04      A16S
ATOM  13354  C5* C   A 643     126.003 115.641 -30.372  1.00 42.04      A16S
ATOM  13355  C4* C   A 643     126.822 114.497 -29.813  1.00 42.04      A16S
ATOM  13356  O4* C   A 643     126.155 113.906 -28.670  1.00 42.04      A16S
ATOM  13357  C1* C   A 643     126.414 112.512 -28.637  1.00 42.04      A16S
ATOM  13358  N1  C   A 643     125.128 111.801 -28.740  1.00 50.83      A16S
ATOM  13359  C6  C   A 643     124.156 112.231 -29.597  1.00 50.83      A16S
ATOM  13360  C2  C   A 643     124.916 110.676 -27.947  1.00 50.83      A16S
ATOM  13361  O2  C   A 643     125.821 110.292 -27.188  1.00 50.83      A16S
ATOM  13362  N3  C   A 643     123.735 110.028 -28.025  1.00 50.83      A16S
ATOM  13363  C4  C   A 643     122.791 110.465 -28.854  1.00 50.83      A16S
ATOM  13364  N4  C   A 643     121.637 109.811 -28.877  1.00 50.83      A16S
ATOM  13365  C5  C   A 643     122.986 111.596 -29.686  1.00 50.83      A16S
ATOM  13366  C2* C   A 643     127.350 112.184 -29.799  1.00 42.04      A16S
ATOM  13367  O2* C   A 643     128.699 112.238 -29.391  1.00 42.04      A16S
ATOM  13368  C3* C   A 643     127.054 113.323 -30.748  1.00 42.04      A16S
ATOM  13369  O3* C   A 643     128.128 113.509 -31.624  1.00 42.04      A16S
ATOM  13370  P   G   A 644     128.111 112.746 -33.021  1.00 36.21      A16S
ATOM  13371  O1P G   A 644     129.319 113.190 -33.770  1.00 59.92      A16S
ATOM  13372  O2P G   A 644     126.768 112.893 -33.634  1.00 59.92      A16S
ATOM  13373  O5* G   A 644     128.265 111.220 -32.599  1.00 36.21      A16S
ATOM  13374  C5* G   A 644     129.514 110.736 -32.086  1.00 36.21      A16S
ATOM  13375  C4* G   A 644     129.451 109.255 -31.853  1.00 36.21      A16S
ATOM  13376  O4* G   A 644     128.592 108.973 -30.726  1.00 36.21      A16S
ATOM  13377  C1* G   A 644     127.985 107.705 -30.909  1.00 36.21      A16S
ATOM  13378  N9  G   A 644     126.530 107.830 -30.913  1.00 59.92      A16S
ATOM  13379  C4  G   A 644     125.664 106.781 -30.817  1.00 59.92      A16S
ATOM  13380  N3  G   A 644     126.012 105.494 -30.646  1.00 59.92      A16S
ATOM  13381  C2  G   A 644     124.964 104.698 -30.641  1.00 59.92      A16S
ATOM  13382  N2  G   A 644     125.127 103.382 -30.460  1.00 59.92      A16S
ATOM  13383  N1  G   A 644     123.677 105.130 -30.807  1.00 59.92      A16S
ATOM  13384  C6  G   A 644     123.296 106.452 -30.993  1.00 59.92      A16S
ATOM  13385  O6  G   A 644     122.107 106.730 -31.160  1.00 59.92      A16S
ATOM  13386  C5  G   A 644     124.411 107.321 -30.974  1.00 59.92      A16S
ATOM  13387  N7  G   A 644     124.482 108.699 -31.118  1.00 59.92      A16S
ATOM  13388  C8  G   A 644     125.760 108.958 -31.063  1.00 59.92      A16S
ATOM  13389  C2* G   A 644     128.452 107.161 -32.254  1.00 36.21      A16S
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ATOM  13390  O2* G   A 644     129.561 106.320 -32.057  1.00 36.21      A16S
ATOM  13391  C3* G   A 644     128.862 108.426 -32.974  1.00 36.21      A16S
ATOM  13392  O3* G   A 644     129.791 108.118 -33.983  1.00 36.21      A16S
ATOM  13393  P    C   A 645     129.259 107.775 -35.452  1.00 34.16      A16S
ATOM  13394  O1P C   A 645     130.421 107.359 -36.265  1.00 39.99      A16S
ATOM  13395  O2P C   A 645     128.402 108.896 -35.908  1.00 39.99      A16S
ATOM  13396  O5* C   A 645     128.320 106.514 -35.230  1.00 34.16      A16S
ATOM  13397  C5* C   A 645     128.865 105.270 -34.759  1.00 34.16      A16S
ATOM  13398  C4* C   A 645     127.827 104.167 -34.838  1.00 34.16      A16S
ATOM  13399  O4* C   A 645     126.807 104.347 -33.823  1.00 34.16      A16S
ATOM  13400  C1* C   A 645     125.550 103.954 -34.340  1.00 34.16      A16S
ATOM  13401  N1   C   A 645     124.672 105.139 -34.337  1.00 39.99      A16S
ATOM  13402  C6   C   A 645     125.129 106.346 -33.895  1.00 39.99      A16S
ATOM  13403  C2   C   A 645     123.375 105.017 -34.810  1.00 39.99      A16S
ATOM  13404  O2   C   A 645     122.976 103.901 -35.180  1.00 39.99      A16S
ATOM  13405  N3   C   A 645     122.584 106.111 -34.854  1.00 39.99      A16S
ATOM  13406  C4   C   A 645     123.050 107.285 -34.435  1.00 39.99      A16S
ATOM  13407  N4   C   A 645     122.248 108.339 -34.503  1.00 39.99      A16S
ATOM  13408  C5   C   A 645     124.358 107.431 -33.930  1.00 39.99      A16S
ATOM  13409  C2* C   A 645     125.785 103.390 -35.749  1.00 34.16      A16S
ATOM  13410  O2* C   A 645     125.944 101.986 -35.694  1.00 34.16      A16S
ATOM  13411  C3* C   A 645     127.079 104.073 -36.152  1.00 34.16      A16S
ATOM  13412  O3* C   A 645     127.804 103.286 -37.069  1.00 34.16      A16S
ATOM  13413  P    U   A 646     127.575 103.500 -38.632  1.00 52.65      A16S
ATOM  13414  O1P U   A 646     128.389 102.498 -39.365  1.00 47.40      A16S
ATOM  13415  O2P U   A 646     127.740 104.945 -38.933  1.00 47.40      A16S
ATOM  13416  O5* U   A 646     126.052 103.095 -38.823  1.00 52.65      A16S
ATOM  13417  C5* U   A 646     125.640 101.733 -38.657  1.00 52.65      A16S
ATOM  13418  C4* U   A 646     124.175 101.601 -38.945  1.00 52.65      A16S
ATOM  13419  O4* U   A 646     123.437 102.308 -37.919  1.00 52.65      A16S
ATOM  13420  C1* U   A 646     122.325 102.965 -38.501  1.00 52.65      A16S
ATOM  13421  N1   U   A 646     122.475 104.412 -38.276  1.00 47.40      A16S
ATOM  13422  C6   U   A 646     123.714 104.995 -38.175  1.00 47.40      A16S
ATOM  13423  C2   U   A 646     121.328 105.174 -38.166  1.00 47.40      A16S
ATOM  13424  O2   U   A 646     120.216 104.710 -38.249  1.00 47.40      A16S
ATOM  13425  N3   U   A 646     121.534 106.507 -37.952  1.00 47.40      A16S
ATOM  13426  C4   U   A 646     122.742 107.150 -37.839  1.00 47.40      A16S
ATOM  13427  O4   U   A 646     122.762 108.367 -37.640  1.00 47.40      A16S
ATOM  13428  C5   U   A 646     123.882 106.301 -37.967  1.00 47.40      A16S
ATOM  13429  C2* U   A 646     122.276 102.579 -39.984  1.00 52.65      A16S
ATOM  13430  O2* U   A 646     121.392 101.488 -40.164  1.00 52.65      A16S
ATOM  13431  C3* U   A 646     123.735 102.226 -40.261  1.00 52.65      A16S
ATOM  13432  O3* U   A 646     123.917 101.339 -41.370  1.00 52.65      A16S
ATOM  13433  P    C   A 647     124.187 101.940 -42.845  1.00 59.17      A16S
ATOM  13434  O1P C   A 647     124.512 100.813 -43.752  1.00 57.53      A16S
ATOM  13435  O2P C   A 647     125.118 103.079 -42.739  1.00 57.53      A16S
ATOM  13436  O5* C   A 647     122.764 102.489 -43.293  1.00 59.17      A16S
ATOM  13437  C5* C   A 647     121.638 101.597 -43.382  1.00 59.17      A16S
ATOM  13438  C4* C   A 647     120.370 102.376 -43.604  1.00 59.17      A16S
ATOM  13439  O4* C   A 647     120.021 103.112 -42.408  1.00 59.17      A16S
ATOM  13440  C1* C   A 647     119.410 104.337 -42.773  1.00 59.17      A16S
ATOM  13441  N1   C   A 647     120.162 105.445 -42.168  1.00 57.53      A16S
ATOM  13442  C6   C   A 647     121.488 105.316 -41.865  1.00 57.53      A16S
ATOM  13443  C2   C   A 647     119.493 106.645 -41.913  1.00 57.53      A16S
ATOM  13444  O2   C   A 647     118.283 106.732 -42.192  1.00 57.53      A16S
ATOM  13445  N3   C   A 647     120.179 107.679 -41.371  1.00 57.53      A16S
ATOM  13446  C4   C   A 647     121.476 107.544 -41.085  1.00 57.53      A16S
ATOM  13447  N4   C   A 647     122.119 108.592 -40.558  1.00 57.53      A16S
ATOM  13448  C5   C   A 647     122.176 106.329 -41.328  1.00 57.53      A16S
ATOM  13449  C2* C   A 647     119.370 104.422 -44.300  1.00 59.17      A16S
ATOM  13450  O2* C   A 647     118.090 104.055 -44.770  1.00 59.17      A16S
ATOM  13451  C3* C   A 647     120.450 103.426 -44.695  1.00 59.17      A16S
ATOM  13452  O3* C   A 647     120.204 102.861 -45.970  1.00 59.17      A16S
ATOM  13453  P    A   A 648     120.798 103.575 -47.274  1.00 64.91      A16S
ATOM  13454  O1P A   A 648     120.491 102.677 -48.425  1.00 64.57      A16S
ATOM  13455  O2P A   A 648     122.212 103.940 -46.984  1.00 64.57      A16S
ATOM  13456  O5* A   A 648     119.928 104.910 -47.393  1.00 64.91      A16S
ATOM  13457  C5* A   A 648     118.561 104.840 -47.833  1.00 64.91      A16S
ATOM  13458  C4* A   A 648     117.893 106.188 -47.746  1.00 64.91      A16S
ATOM  13459  O4* A   A 648     117.800 106.607 -46.365  1.00 64.91      A16S
ATOM  13460  C1* A   A 648     117.833 108.023 -46.298  1.00 64.91      A16S
ATOM  13461  N9   A   A 648     118.942 108.435 -45.440  1.00 64.57      A16S
ATOM  13462  C4   A   A 648     119.103 109.693 -44.916  1.00 64.57      A16S
ATOM  13463  N3   A   A 648     118.291 110.746 -45.079  1.00 64.57      A16S
ATOM  13464  C2   A   A 648     118.754 111.798 -44.418  1.00 64.57      A16S
ATOM  13465  N1   A   A 648     119.854 111.910 -43.673  1.00 64.57      A16S
ATOM  13466  C6   A   A 648     120.649 110.832 -43.531  1.00 64.57      A16S
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ATOM  13467  N6  A   A 648     121.744 110.946 -42.780  1.00 64.57      A16S
ATOM  13468  C5  A   A 648     120.269 109.651 -44.182  1.00 64.57      A16S
ATOM  13469  N7  A   A 648     120.840 108.388 -44.239  1.00 64.57      A16S
ATOM  13470  C8  A   A 648     120.017 107.705 -44.995  1.00 64.57      A16S
ATOM  13471  C2* A   A 648     117.991 108.555 -47.720  1.00 64.91      A16S
ATOM  13472  O2* A   A 648     116.725 108.927 -48.221  1.00 64.91      A16S
ATOM  13473  C3* A   A 648     118.582 107.348 -48.433  1.00 64.91      A16S
ATOM  13474  O3* A   A 648     118.330 107.384 -49.819  1.00 64.91      A16S
ATOM  13475  P   G   A 649     119.410 108.068 -50.792  1.00 63.50      A16S
ATOM  13476  O1P G   A 649     118.988 107.708 -52.172  1.00 58.01      A16S
ATOM  13477  O2P G   A 649     120.780 107.715 -50.328  1.00 58.01      A16S
ATOM  13478  O5* G   A 649     119.203 109.630 -50.552  1.00 63.50      A16S
ATOM  13479  C5* G   A 649     117.995 110.256 -50.983  1.00 63.50      A16S
ATOM  13480  C4* G   A 649     117.932 111.687 -50.523  1.00 63.50      A16S
ATOM  13481  O4* G   A 649     117.869 111.749 -49.080  1.00 63.50      A16S
ATOM  13482  C1* G   A 649     118.462 112.952 -48.632  1.00 63.50      A16S
ATOM  13483  N9  G   A 649     119.582 112.616 -47.766  1.00 58.01      A16S
ATOM  13484  C4  G   A 649     120.231 113.473 -46.920  1.00 58.01      A16S
ATOM  13485  N3  G   A 649     119.907 114.757 -46.700  1.00 58.01      A16S
ATOM  13486  C2  G   A 649     120.727 115.325 -45.843  1.00 58.01      A16S
ATOM  13487  N2  G   A 649     120.530 116.579 -45.481  1.00 58.01      A16S
ATOM  13488  N1  G   A 649     121.795 114.699 -45.271  1.00 58.01      A16S
ATOM  13489  C6  G   A 649     122.155 113.379 -45.495  1.00 58.01      A16S
ATOM  13490  O6  G   A 649     123.157 112.913 -44.949  1.00 58.01      A16S
ATOM  13491  C5  G   A 649     121.265 112.744 -46.384  1.00 58.01      A16S
ATOM  13492  N7  G   A 649     121.241 111.438 -46.849  1.00 58.01      A16S
ATOM  13493  C8  G   A 649     120.223 111.406 -47.663  1.00 58.01      A16S
ATOM  13494  C2* G   A 649     118.958 113.705 -49.862  1.00 63.50      A16S
ATOM  13495  O2* G   A 649     117.988 114.649 -50.252  1.00 63.50      A16S
ATOM  13496  C3* G   A 649     119.099 112.580 -50.873  1.00 63.50      A16S
ATOM  13497  O3* G   A 649     119.022 113.057 -52.196  1.00 63.50      A16S
ATOM  13498  P   G   A 650     120.381 113.387 -52.981  1.00 66.95      A16S
ATOM  13499  O1P G   A 650     119.977 113.702 -54.376  1.00 64.46      A16S
ATOM  13500  O2P G   A 650     121.366 112.298 -52.725  1.00 64.46      A16S
ATOM  13501  O5* G   A 650     120.925 114.698 -52.257  1.00 66.95      A16S
ATOM  13502  C5* G   A 650     120.108 115.866 -52.200  1.00 66.95      A16S
ATOM  13503  C4* G   A 650     120.705 116.906 -51.283  1.00 66.95      A16S
ATOM  13504  O4* G   A 650     120.700 116.465 -49.901  1.00 66.95      A16S
ATOM  13505  C1* G   A 650     121.728 117.135 -49.193  1.00 66.95      A16S
ATOM  13506  N9  G   A 650     122.632 116.155 -48.600  1.00 64.46      A16S
ATOM  13507  C4  G   A 650     123.682 116.442 -47.763  1.00 64.46      A16S
ATOM  13508  N3  G   A 650     124.034 117.667 -47.333  1.00 64.46      A16S
ATOM  13509  C2  G   A 650     125.088 117.631 -46.547  1.00 64.46      A16S
ATOM  13510  N2  G   A 650     125.550 118.761 -46.011  1.00 64.46      A16S
ATOM  13511  N1  G   A 650     125.760 116.485 -46.223  1.00 64.46      A16S
ATOM  13512  C6  G   A 650     125.420 115.209 -46.658  1.00 64.46      A16S
ATOM  13513  O6  G   A 650     126.100 114.235 -46.311  1.00 64.46      A16S
ATOM  13514  C5  G   A 650     124.274 115.231 -47.489  1.00 64.46      A16S
ATOM  13515  N7  G   A 650     123.598 114.195 -48.122  1.00 64.46      A16S
ATOM  13516  C8  G   A 650     122.632 114.790 -48.768  1.00 64.46      A16S
ATOM  13517  C2* G   A 650     122.464 118.018 -50.194  1.00 66.95      A16S
ATOM  13518  O2* G   A 650     121.882 119.301 -50.131  1.00 66.95      A16S
ATOM  13519  C3* G   A 650     122.137 117.336 -51.512  1.00 66.95      A16S
ATOM  13520  O3* G   A 650     122.256 118.238 -52.591  1.00 66.95      A16S
ATOM  13521  P   C   A 651     123.660 118.353 -53.361  1.00 35.96      A16S
ATOM  13522  O1P C   A 651     123.455 119.260 -54.530  1.00 68.17      A16S
ATOM  13523  O2P C   A 651     124.181 116.975 -53.592  1.00 68.17      A16S
ATOM  13524  O5* C   A 651     124.615 119.070 -52.302  1.00 35.96      A16S
ATOM  13525  C5* C   A 651     124.310 120.386 -51.849  1.00 35.96      A16S
ATOM  13526  C4* C   A 651     125.308 120.848 -50.828  1.00 35.96      A16S
ATOM  13527  O4* C   A 651     125.405 119.883 -49.763  1.00 35.96      A16S
ATOM  13528  C1* C   A 651     126.678 119.963 -49.164  1.00 35.96      A16S
ATOM  13529  N1  C   A 651     127.265 118.614 -49.092  1.00 68.17      A16S
ATOM  13530  C6  C   A 651     126.848 117.607 -49.922  1.00 68.17      A16S
ATOM  13531  C2  C   A 651     128.266 118.380 -48.151  1.00 68.17      A16S
ATOM  13532  O2  C   A 651     128.624 119.313 -47.419  1.00 68.17      A16S
ATOM  13533  N3  C   A 651     128.820 117.149 -48.065  1.00 68.17      A16S
ATOM  13534  C4  C   A 651     128.411 116.176 -48.881  1.00 68.17      A16S
ATOM  13535  N4  C   A 651     128.992 114.982 -48.768  1.00 68.17      A16S
ATOM  13536  C5  C   A 651     127.391 116.386 -49.851  1.00 68.17      A16S
ATOM  13537  C2* C   A 651     127.500 120.970 -49.961  1.00 35.96      A16S
ATOM  13538  O2* C   A 651     127.456 122.181 -49.238  1.00 35.96      A16S
ATOM  13539  C3* C   A 651     126.735 121.024 -51.280  1.00 35.96      A16S
ATOM  13540  O3* C   A 651     126.858 122.268 -51.933  1.00 35.96      A16S
ATOM  13541  P   U   A 652     127.865 122.415 -53.170  1.00 41.98      A16S
ATOM  13542  O1P U   A 652     127.606 123.725 -53.818  1.00 51.93      A16S
ATOM  13543  O2P U   A 652     127.814 121.171 -53.991  1.00 51.93      A16S
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ATOM  13544  O5* U   A 652     129.279 122.500 -52.455  1.00 41.98      A16S
ATOM  13545  C5* U   A 652     129.514 123.483 -51.444  1.00 41.98      A16S
ATOM  13546  C4* U   A 652     130.844 123.240 -50.788  1.00 41.98      A16S
ATOM  13547  O4* U   A 652     130.835 121.921 -50.192  1.00 41.98      A16S
ATOM  13548  C1* U   A 652     131.924 121.181 -50.673  1.00 41.98      A16S
ATOM  13549  N1  U   A 652     131.540 119.766 -50.696  1.00 51.93      A16S
ATOM  13550  C6  U   A 652     130.626 119.259 -51.593  1.00 51.93      A16S
ATOM  13551  C2  U   A 652     132.143 118.954 -49.764  1.00 51.93      A16S
ATOM  13552  O2  U   A 652     132.947 119.374 -48.944  1.00 51.93      A16S
ATOM  13553  N3  U   A 652     131.774 117.633 -49.823  1.00 51.93      A16S
ATOM  13554  C4  U   A 652     130.885 117.055 -50.700  1.00 51.93      A16S
ATOM  13555  O4  U   A 652     130.755 115.835 -50.700  1.00 51.93      A16S
ATOM  13556  C5  U   A 652     130.285 117.963 -51.622  1.00 51.93      A16S
ATOM  13557  C2* U   A 652     132.317 121.817 -52.003  1.00 41.98      A16S
ATOM  13558  O2* U   A 652     133.660 121.529 -52.323  1.00 41.98      A16S
ATOM  13559  C3* U   A 652     132.059 123.289 -51.702  1.00 41.98      A16S
ATOM  13560  O3* U   A 652     133.117 123.808 -50.912  1.00 41.98      A16S
ATOM  13561  P   A   A 653     134.300 124.642 -51.594  1.00 56.59      A16S
ATOM  13562  O1P A   A 653     133.954 126.066 -51.413  1.00 44.24      A16S
ATOM  13563  O2P A   A 653     134.586 124.115 -52.963  1.00 44.24      A16S
ATOM  13564  O5* A   A 653     135.535 124.371 -50.626  1.00 56.59      A16S
ATOM  13565  C5* A   A 653     135.690 123.106 -49.947  1.00 56.59      A16S
ATOM  13566  C4* A   A 653     136.435 123.305 -48.650  1.00 56.59      A16S
ATOM  13567  O4* A   A 653     135.599 124.034 -47.703  1.00 56.59      A16S
ATOM  13568  C1* A   A 653     135.548 123.327 -46.481  1.00 56.59      A16S
ATOM  13569  N9  A   A 653     134.243 123.533 -45.839  1.00 44.24      A16S
ATOM  13570  C4  A   A 653     133.018 123.086 -46.267  1.00 44.24      A16S
ATOM  13571  N3  A   A 653     132.751 122.394 -47.386  1.00 44.24      A16S
ATOM  13572  C2  A   A 653     131.450 122.128 -47.472  1.00 44.24      A16S
ATOM  13573  N1  A   A 653     130.453 122.446 -46.625  1.00 44.24      A16S
ATOM  13574  C6  A   A 653     130.754 123.137 -45.506  1.00 44.24      A16S
ATOM  13575  N6  A   A 653     129.760 123.438 -44.663  1.00 44.24      A16S
ATOM  13576  C5  A   A 653     132.106 123.492 -45.301  1.00 44.24      A16S
ATOM  13577  N7  A   A 653     132.743 124.202 -44.294  1.00 44.24      A16S
ATOM  13578  C8  A   A 653     134.002 124.202 -44.660  1.00 44.24      A16S
ATOM  13579  C2* A   A 653     135.864 121.872 -46.822  1.00 56.59      A16S
ATOM  13580  O2* A   A 653     136.341 121.206 -45.671  1.00 56.59      A16S
ATOM  13581  C3* A   A 653     136.889 122.028 -47.949  1.00 56.59      A16S
ATOM  13582  O3* A   A 653     138.200 122.250 -47.421  1.00 56.59      A16S
ATOM  13583  P   G   A 654     139.503 121.799 -48.262  1.00 53.88      A16S
ATOM  13584  O1P G   A 654     140.595 122.670 -47.782  1.00 37.89      A16S
ATOM  13585  O2P G   A 654     139.222 121.708 -49.731  1.00 37.89      A16S
ATOM  13586  O5* G   A 654     139.812 120.326 -47.750  1.00 53.88      A16S
ATOM  13587  C5* G   A 654     140.318 120.102 -46.430  1.00 53.88      A16S
ATOM  13588  C4* G   A 654     140.286 118.631 -46.104  1.00 53.88      A16S
ATOM  13589  O4* G   A 654     138.915 118.177 -45.986  1.00 53.88      A16S
ATOM  13590  C1* G   A 654     138.807 116.852 -46.471  1.00 53.88      A16S
ATOM  13591  N9  G   A 654     137.940 116.872 -47.638  1.00 37.89      A16S
ATOM  13592  C4  G   A 654     137.425 115.788 -48.289  1.00 37.89      A16S
ATOM  13593  N3  G   A 654     137.640 114.502 -47.971  1.00 37.89      A16S
ATOM  13594  C2  G   A 654     136.982 113.684 -48.767  1.00 37.89      A16S
ATOM  13595  N2  G   A 654     137.057 112.369 -48.576  1.00 37.89      A16S
ATOM  13596  N1  G   A 654     136.196 114.096 -49.803  1.00 37.89      A16S
ATOM  13597  C6  G   A 654     135.972 115.420 -50.150  1.00 37.89      A16S
ATOM  13598  O6  G   A 654     135.248 115.691 -51.107  1.00 37.89      A16S
ATOM  13599  C5  G   A 654     136.654 116.302 -49.298  1.00 37.89      A16S
ATOM  13600  N7  G   A 654     136.694 117.683 -49.292  1.00 37.89      A16S
ATOM  13601  C8  G   A 654     137.474 117.975 -48.294  1.00 37.89      A16S
ATOM  13602  C2* G   A 654     140.207 116.389 -46.842  1.00 53.88      A16S
ATOM  13603  O2* G   A 654     140.771 115.742 -45.718  1.00 53.88      A16S
ATOM  13604  C3* G   A 654     140.882 117.713 -47.148  1.00 53.88      A16S
ATOM  13605  O3* G   A 654     142.281 117.641 -47.059  1.00 53.88      A16S
ATOM  13606  P   A   A 655     143.143 117.775 -48.400  1.00 34.72      A16S
ATOM  13607  O1P A   A 655     144.571 117.721 -48.001  1.00 49.69      A16S
ATOM  13608  O2P A   A 655     142.642 118.948 -49.162  1.00 49.69      A16S
ATOM  13609  O5* A   A 655     142.778 116.464 -49.222  1.00 34.72      A16S
ATOM  13610  C5* A   A 655     143.130 115.191 -48.708  1.00 34.72      A16S
ATOM  13611  C4* A   A 655     142.440 114.114 -49.481  1.00 34.72      A16S
ATOM  13612  O4* A   A 655     141.006 114.270 -49.348  1.00 34.72      A16S
ATOM  13613  C1* A   A 655     140.367 113.827 -50.532  1.00 34.72      A16S
ATOM  13614  N9  A   A 655     139.633 114.954 -51.101  1.00 49.69      A16S
ATOM  13615  C4  A   A 655     138.698 114.895 -52.102  1.00 49.69      A16S
ATOM  13616  N3  A   A 655     138.242 113.800 -52.727  1.00 49.69      A16S
ATOM  13617  C2  A   A 655     137.354 114.130 -53.657  1.00 49.69      A16S
ATOM  13618  N1  A   A 655     136.907 115.339 -54.010  1.00 49.69      A16S
ATOM  13619  C6  A   A 655     137.394 116.417 -53.363  1.00 49.69      A16S
ATOM  13620  N6  A   A 655     136.969 117.626 -53.721  1.00 49.69      A16S
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ATOM  13621  C5  A   A 655     138.331 116.200 -52.350  1.00 49.69      A16S
ATOM  13622  N7  A   A 655     139.001 117.068 -51.504  1.00 49.69      A16S
ATOM  13623  C8  A   A 655     139.753 116.279 -50.780  1.00 49.69      A16S
ATOM  13624  C2* A   A 655     141.460 113.324 -51.479  1.00 34.72      A16S
ATOM  13625  O2* A   A 655     141.618 111.918 -51.343  1.00 34.72      A16S
ATOM  13626  C3* A   A 655     142.671 114.102 -50.978  1.00 34.72      A16S
ATOM  13627  O3* A   A 655     143.903 113.496 -51.327  1.00 34.72      A16S
ATOM  13628  P   C   A 656     144.626 113.906 -52.704  1.00 47.09      A16S
ATOM  13629  O1P C   A 656     145.869 113.093 -52.723  1.00 47.63      A16S
ATOM  13630  O2P C   A 656     144.717 115.378 -52.835  1.00 47.63      A16S
ATOM  13631  O5* C   A 656     143.636 113.365 -53.828  1.00 47.09      A16S
ATOM  13632  C5* C   A 656     143.357 111.957 -53.934  1.00 47.09      A16S
ATOM  13633  C4* C   A 656     142.354 111.696 -55.028  1.00 47.09      A16S
ATOM  13634  O4* C   A 656     141.063 112.247 -54.651  1.00 47.09      A16S
ATOM  13635  C1* C   A 656     140.403 112.760 -55.804  1.00 47.09      A16S
ATOM  13636  N1  C   A 656     140.252 114.226 -55.652  1.00 47.63      A16S
ATOM  13637  C6  C   A 656     141.103 114.936 -54.853  1.00 47.63      A16S
ATOM  13638  C2  C   A 656     139.242 114.892 -56.370  1.00 47.63      A16S
ATOM  13639  O2  C   A 656     138.435 114.231 -57.035  1.00 47.63      A16S
ATOM  13640  N3  C   A 656     139.169 116.238 -56.310  1.00 47.63      A16S
ATOM  13641  C4  C   A 656     140.037 116.917 -55.562  1.00 47.63      A16S
ATOM  13642  N4  C   A 656     139.963 118.241 -55.569  1.00 47.63      A16S
ATOM  13643  C5  C   A 656     141.030 116.267 -54.781  1.00 47.63      A16S
ATOM  13644  C2* C   A 656     141.286 112.434 -57.009  1.00 47.09      A16S
ATOM  13645  O2* C   A 656     140.919 111.200 -57.589  1.00 47.09      A16S
ATOM  13646  C3* C   A 656     142.656 112.357 -56.360  1.00 47.09      A16S
ATOM  13647  O3* C   A 656     143.588 111.659 -57.154  1.00 47.09      A16S
ATOM  13648  P   G   A 657     144.484 112.484 -58.199  1.00 58.28      A16S
ATOM  13649  O1P G   A 657     145.445 111.504 -58.779  1.00 56.60      A16S
ATOM  13650  O2P G   A 657     144.983 113.732 -57.562  1.00 56.60      A16S
ATOM  13651  O5* G   A 657     143.448 112.936 -59.318  1.00 58.28      A16S
ATOM  13652  C5* G   A 657     142.726 111.956 -60.070  1.00 58.28      A16S
ATOM  13653  C4* G   A 657     141.712 112.619 -60.967  1.00 58.28      A16S
ATOM  13654  O4* G   A 657     140.726 113.324 -60.169  1.00 58.28      A16S
ATOM  13655  C1* G   A 657     140.204 114.406 -60.919  1.00 58.28      A16S
ATOM  13656  N9  G   A 657     140.507 115.665 -60.253  1.00 56.60      A16S
ATOM  13657  C4  G   A 657     140.067 116.899 -60.664  1.00 56.60      A16S
ATOM  13658  N3  G   A 657     139.237 117.132 -61.697  1.00 56.60      A16S
ATOM  13659  C2  G   A 657     139.023 118.419 -61.875  1.00 56.60      A16S
ATOM  13660  N2  G   A 657     138.201 118.819 -62.846  1.00 56.60      A16S
ATOM  13661  N1  G   A 657     139.592 119.407 -61.113  1.00 56.60      A16S
ATOM  13662  C6  G   A 657     140.448 119.191 -60.043  1.00 56.60      A16S
ATOM  13663  O6  G   A 657     140.906 120.154 -59.420  1.00 56.60      A16S
ATOM  13664  C5  G   A 657     140.675 117.805 -59.828  1.00 56.60      A16S
ATOM  13665  N7  G   A 657     141.449 117.152 -58.877  1.00 56.60      A16S
ATOM  13666  C8  G   A 657     141.310 115.883 -59.161  1.00 56.60      A16S
ATOM  13667  C2* G   A 657     140.920 114.416 -62.264  1.00 58.28      A16S
ATOM  13668  O2* G   A 657     140.142 113.727 -63.215  1.00 58.28      A16S
ATOM  13669  C3* G   A 657     142.207 113.682 -61.934  1.00 58.28      A16S
ATOM  13670  O3* G   A 657     142.804 113.168 -63.115  1.00 58.28      A16S
ATOM  13671  P   G   A 658     143.641 114.157 -64.075  1.00 46.25      A16S
ATOM  13672  O1P G   A 658     144.121 113.323 -65.202  1.00 38.89      A16S
ATOM  13673  O2P G   A 658     144.618 114.947 -63.278  1.00 38.89      A16S
ATOM  13674  O5* G   A 658     142.548 115.176 -64.630  1.00 46.25      A16S
ATOM  13675  C5* G   A 658     141.536 114.746 -65.567  1.00 46.25      A16S
ATOM  13676  C4* G   A 658     140.893 115.944 -66.209  1.00 46.25      A16S
ATOM  13677  O4* G   A 658     140.289 116.733 -65.167  1.00 46.25      A16S
ATOM  13678  C1* G   A 658     140.514 118.106 -65.410  1.00 46.25      A16S
ATOM  13679  N9  G   A 658     141.307 118.613 -64.302  1.00 38.89      A16S
ATOM  13680  C4  G   A 658     141.542 119.923 -63.972  1.00 38.89      A16S
ATOM  13681  N3  G   A 658     141.112 121.002 -64.646  1.00 38.89      A16S
ATOM  13682  C2  G   A 658     141.485 122.129 -64.058  1.00 38.89      A16S
ATOM  13683  N2  G   A 658     141.128 123.309 -64.576  1.00 38.89      A16S
ATOM  13684  N1  G   A 658     142.229 122.188 -62.912  1.00 38.89      A16S
ATOM  13685  C6  G   A 658     142.682 121.084 -62.203  1.00 38.89      A16S
ATOM  13686  O6  G   A 658     143.346 121.240 -61.168  1.00 38.89      A16S
ATOM  13687  C5  G   A 658     142.284 119.877 -62.815  1.00 38.89      A16S
ATOM  13688  N7  G   A 658     142.527 118.567 -62.438  1.00 38.89      A16S
ATOM  13689  C8  G   A 658     141.940 117.854 -63.355  1.00 38.89      A16S
ATOM  13690  C2* G   A 658     141.195 118.237 -66.765  1.00 46.25      A16S
ATOM  13691  O2* G   A 658     140.209 118.435 -67.762  1.00 46.25      A16S
ATOM  13692  C3* G   A 658     141.873 116.885 -66.884  1.00 46.25      A16S
ATOM  13693  O3* G   A 658     142.103 116.529 -68.234  1.00 46.25      A16S
ATOM  13694  P   U   A 659     143.503 116.903 -68.903  1.00 59.50      A16S
ATOM  13695  O1P U   A 659     143.510 116.384 -70.291  1.00 59.19      A16S
ATOM  13696  O2P U   A 659     144.579 116.520 -67.966  1.00 59.19      A16S
ATOM  13697  O5* U   A 659     143.484 118.488 -68.934  1.00 59.50      A16S
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ATOM  13698  C5* U   A 659     142.574 119.184 -69.783  1.00 59.50      A16S
ATOM  13699  C4* U   A 659     142.820 120.665 -69.693  1.00 59.50      A16S
ATOM  13700  O4* U   A 659     142.456 121.144 -68.374  1.00 59.50      A16S
ATOM  13701  C1* U   A 659     143.329 122.190 -67.989  1.00 59.50      A16S
ATOM  13702  N1  U   A 659     144.010 121.791 -66.751  1.00 59.19      A16S
ATOM  13703  C6  U   A 659     144.356 120.481 -66.518  1.00 59.19      A16S
ATOM  13704  C2  U   A 659     144.297 122.779 -65.828  1.00 59.19      A16S
ATOM  13705  O2  U   A 659     144.012 123.953 -65.996  1.00 59.19      A16S
ATOM  13706  N3  U   A 659     144.933 122.344 -64.700  1.00 59.19      A16S
ATOM  13707  C4  U   A 659     145.304 121.055 -64.407  1.00 59.19      A16S
ATOM  13708  O4  U   A 659     145.851 120.818 -63.332  1.00 59.19      A16S
ATOM  13709  C5  U   A 659     144.977 120.091 -65.412  1.00 59.19      A16S
ATOM  13710  C2* U   A 659     144.308 122.428 -69.138  1.00 59.50      A16S
ATOM  13711  O2* U   A 659     143.856 123.514 -69.925  1.00 59.50      A16S
ATOM  13712  C3* U   A 659     144.264 121.086 -69.856  1.00 59.50      A16S
ATOM  13713  O3* U   A 659     144.647 121.160 -71.211  1.00 59.50      A16S
ATOM  13714  P   G   A 660     146.178 120.922 -71.594  1.00 62.52      A16S
ATOM  13715  O1P G   A 660     146.290 120.936 -73.072  1.00 46.32      A16S
ATOM  13716  O2P G   A 660     146.652 119.742 -70.838  1.00 46.32      A16S
ATOM  13717  O5* G   A 660     146.890 122.214 -71.013  1.00 62.52      A16S
ATOM  13718  C5* G   A 660     146.458 123.504 -71.428  1.00 62.52      A16S
ATOM  13719  C4* G   A 660     147.131 124.571 -70.615  1.00 62.52      A16S
ATOM  13720  O4* G   A 660     146.594 124.614 -69.270  1.00 62.52      A16S
ATOM  13721  C1* G   A 660     147.595 125.084 -68.376  1.00 62.52      A16S
ATOM  13722  N9  G   A 660     147.805 124.099 -67.317  1.00 46.32      A16S
ATOM  13723  C4  G   A 660     148.421 124.331 -66.111  1.00 46.32      A16S
ATOM  13724  N3  G   A 660     148.922 125.510 -65.688  1.00 46.32      A16S
ATOM  13725  C2  G   A 660     149.478 125.412 -64.489  1.00 46.32      A16S
ATOM  13726  N2  G   A 660     150.019 126.491 -63.903  1.00 46.32      A16S
ATOM  13727  N1  G   A 660     149.543 124.254 -63.772  1.00 46.32      A16S
ATOM  13728  C6  G   A 660     149.044 123.028 -64.191  1.00 46.32      A16S
ATOM  13729  O6  G   A 660     149.185 122.033 -63.474  1.00 46.32      A16S
ATOM  13730  C5  G   A 660     148.429 123.119 -65.468  1.00 46.32      A16S
ATOM  13731  N7  G   A 660     147.814 122.145 -66.242  1.00 46.32      A16S
ATOM  13732  C8  G   A 660     147.459 122.772 -67.326  1.00 46.32      A16S
ATOM  13733  C2* G   A 660     148.869 125.313 -69.191  1.00 62.52      A16S
ATOM  13734  O2* G   A 660     148.991 126.687 -69.525  1.00 62.52      A16S
ATOM  13735  C3* G   A 660     148.624 124.425 -70.405  1.00 62.52      A16S
ATOM  13736  O3* G   A 660     149.380 124.846 -71.527  1.00 62.52      A16S
ATOM  13737  P   G   A 661     150.918 124.413 -71.638  1.00 88.03      A16S
ATOM  13738  O1P G   A 661     151.614 125.469 -72.421  1.00 61.74      A16S
ATOM  13739  O2P G   A 661     151.004 122.984 -72.068  1.00 61.74      A16S
ATOM  13740  O5* G   A 661     151.402 124.518 -70.133  1.00 88.03      A16S
ATOM  13741  C5* G   A 661     152.775 124.524 -69.807  1.00 88.03      A16S
ATOM  13742  C4* G   A 661     153.047 125.585 -68.780  1.00 88.03      A16S
ATOM  13743  O4* G   A 661     151.989 125.616 -67.788  1.00 88.03      A16S
ATOM  13744  C1* G   A 661     152.548 125.553 -66.484  1.00 88.03      A16S
ATOM  13745  N9  G   A 661     152.362 124.182 -66.002  1.00 61.74      A16S
ATOM  13746  C4  G   A 661     152.641 123.688 -64.747  1.00 61.74      A16S
ATOM  13747  N3  G   A 661     153.152 124.383 -63.717  1.00 61.74      A16S
ATOM  13748  C2  G   A 661     153.308 123.632 -62.646  1.00 61.74      A16S
ATOM  13749  N2  G   A 661     153.822 124.168 -61.541  1.00 61.74      A16S
ATOM  13750  N1  G   A 661     152.976 122.303 -62.583  1.00 61.74      A16S
ATOM  13751  C6  G   A 661     152.445 121.565 -63.631  1.00 61.74      A16S
ATOM  13752  O6  G   A 661     152.173 120.370 -63.475  1.00 61.74      A16S
ATOM  13753  C5  G   A 661     152.288 122.355 -64.792  1.00 61.74      A16S
ATOM  13754  N7  G   A 661     151.809 122.011 -66.048  1.00 61.74      A16S
ATOM  13755  C8  G   A 661     151.869 123.121 -66.730  1.00 61.74      A16S
ATOM  13756  C2* G   A 661     154.027 125.909 -66.645  1.00 88.03      A16S
ATOM  13757  O2* G   A 661     154.215 127.312 -66.611  1.00 88.03      A16S
ATOM  13758  C3* G   A 661     154.309 125.298 -68.006  1.00 88.03      A16S
ATOM  13759  O3* G   A 661     155.445 125.760 -68.684  1.00 88.03      A16S
ATOM  13760  P   G   A 662     156.711 124.795 -68.795  1.00 96.28      A16S
ATOM  13761  O1P G   A 662     157.671 125.485 -69.696  1.00 50.42      A16S
ATOM  13762  O2P G   A 662     156.247 123.409 -69.112  1.00 50.42      A16S
ATOM  13763  O5* G   A 662     157.277 124.813 -67.311  1.00 96.28      A16S
ATOM  13764  C5* G   A 662     157.458 126.068 -66.643  1.00 96.28      A16S
ATOM  13765  C4* G   A 662     158.085 125.861 -65.297  1.00 96.28      A16S
ATOM  13766  O4* G   A 662     157.101 125.399 -64.343  1.00 96.28      A16S
ATOM  13767  C1* G   A 662     157.717 124.528 -63.415  1.00 96.28      A16S
ATOM  13768  N9  G   A 662     157.062 123.225 -63.506  1.00 50.42      A16S
ATOM  13769  C4  G   A 662     156.995 122.272 -62.515  1.00 50.42      A16S
ATOM  13770  N3  G   A 662     157.514 122.380 -61.272  1.00 50.42      A16S
ATOM  13771  C2  G   A 662     157.298 121.292 -60.553  1.00 50.42      A16S
ATOM  13772  N2  G   A 662     157.743 121.225 -59.289  1.00 50.42      A16S
ATOM  13773  N1  G   A 662     156.629 120.189 -61.019  1.00 50.42      A16S
ATOM  13774  C6  G   A 662     156.087 120.059 -62.289  1.00 50.42      A16S
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ATOM  13775  O6  G   A 662     155.500 119.021 -62.599  1.00 50.42      A16S
ATOM  13776  C5  G   A 662     156.310 121.214 -63.071  1.00 50.42      A16S
ATOM  13777  N7  G   A 662     155.945 121.496 -64.377  1.00 50.42      A16S
ATOM  13778  C8  G   A 662     156.407 122.698 -64.592  1.00 50.42      A16S
ATOM  13779  C2* G   A 662     159.203 124.461 -63.770  1.00 96.28      A16S
ATOM  13780  O2* G   A 662     159.902 125.429 -63.017  1.00 96.28      A16S
ATOM  13781  C3* G   A 662     159.185 124.825 -65.245  1.00 96.28      A16S
ATOM  13782  O3* G   A 662     160.420 125.344 -65.708  1.00 96.28      A16S
ATOM  13783  P   A   A 663     161.557 124.330 -66.218  1.00 54.81      A16S
ATOM  13784  O1P A   A 663     162.578 125.107 -66.965  1.00 49.79      A16S
ATOM  13785  O2P A   A 663     160.891 123.173 -66.882  1.00 49.79      A16S
ATOM  13786  O5* A   A 663     162.230 123.847 -64.859  1.00 54.81      A16S
ATOM  13787  C5* A   A 663     162.769 124.805 -63.935  1.00 54.81      A16S
ATOM  13788  C4* A   A 663     163.114 124.137 -62.631  1.00 54.81      A16S
ATOM  13789  O4* A   A 663     161.910 123.667 -61.989  1.00 54.81      A16S
ATOM  13790  C1* A   A 663     162.167 122.454 -61.308  1.00 54.81      A16S
ATOM  13791  N9  A   A 663     161.332 121.415 -61.896  1.00 49.79      A16S
ATOM  13792  C4  A   A 663     160.917 120.264 -61.282  1.00 49.79      A16S
ATOM  13793  N3  A   A 663     161.191 119.867 -60.036  1.00 49.79      A16S
ATOM  13794  C2  A   A 663     160.617 118.697 -59.786  1.00 49.79      A16S
ATOM  13795  N1  A   A 663     159.856 117.940 -60.579  1.00 49.79      A16S
ATOM  13796  C6  A   A 663     159.597 118.376 -61.821  1.00 49.79      A16S
ATOM  13797  N6  A   A 663     158.825 117.633 -62.608  1.00 49.79      A16S
ATOM  13798  C5  A   A 663     160.152 119.595 -62.211  1.00 49.79      A16S
ATOM  13799  N7  A   A 663     160.086 120.309 -63.396  1.00 49.79      A16S
ATOM  13800  C8  A   A 663     160.803 121.378 -63.156  1.00 49.79      A16S
ATOM  13801  C2* A   A 663     163.645 122.136 -61.474  1.00 54.81      A16S
ATOM  13802  O2* A   A 663     164.333 122.613 -60.335  1.00 54.81      A16S
ATOM  13803  C3* A   A 663     163.972 122.896 -62.750  1.00 54.81      A16S
ATOM  13804  O3* A   A 663     165.336 123.223 -62.854  1.00 54.81      A16S
ATOM  13805  P   G   A 664     166.310 122.240 -63.644  1.00 51.36      A16S
ATOM  13806  O1P G   A 664     167.625 122.898 -63.654  1.00 39.48      A16S
ATOM  13807  O2P G   A 664     165.663 121.840 -64.919  1.00 39.48      A16S
ATOM  13808  O5* G   A 664     166.377 120.946 -62.726  1.00 51.36      A16S
ATOM  13809  C5* G   A 664     166.817 121.046 -61.368  1.00 51.36      A16S
ATOM  13810  C4* G   A 664     166.554 119.756 -60.638  1.00 51.36      A16S
ATOM  13811  O4* G   A 664     165.134 119.522 -60.496  1.00 51.36      A16S
ATOM  13812  C1* G   A 664     164.905 118.136 -60.370  1.00 51.36      A16S
ATOM  13813  N9  G   A 664     163.880 117.716 -61.318  1.00 39.48      A16S
ATOM  13814  C4  G   A 664     163.059 116.612 -61.189  1.00 39.48      A16S
ATOM  13815  N3  G   A 664     163.014 115.772 -60.129  1.00 39.48      A16S
ATOM  13816  C2  G   A 664     162.185 114.763 -60.334  1.00 39.48      A16S
ATOM  13817  N2  G   A 664     162.018 113.833 -59.386  1.00 39.48      A16S
ATOM  13818  N1  G   A 664     161.464 114.588 -61.485  1.00 39.48      A16S
ATOM  13819  C6  G   A 664     161.500 115.434 -62.587  1.00 39.48      A16S
ATOM  13820  O6  G   A 664     160.842 115.155 -63.597  1.00 39.48      A16S
ATOM  13821  C5  G   A 664     162.364 116.534 -62.372  1.00 39.48      A16S
ATOM  13822  N7  G   A 664     162.680 117.601 -63.197  1.00 39.48      A16S
ATOM  13823  C8  G   A 664     163.574 118.280 -62.527  1.00 39.48      A16S
ATOM  13824  C2* G   A 664     166.236 117.421 -60.606  1.00 51.36      A16S
ATOM  13825  O2* G   A 664     166.791 117.099 -59.353  1.00 51.36      A16S
ATOM  13826  C3* G   A 664     167.061 118.492 -61.304  1.00 51.36      A16S
ATOM  13827  O3* G   A 664     168.447 118.319 -61.033  1.00 51.36      A16S
ATOM  13828  P   A   A 665     169.457 117.906 -62.217  1.00 61.34      A16S
ATOM  13829  O1P A   A 665     170.309 119.087 -62.461  1.00 29.94      A16S
ATOM  13830  O2P A   A 665     168.735 117.285 -63.354  1.00 29.94      A16S
ATOM  13831  O5* A   A 665     170.358 116.787 -61.534  1.00 61.34      A16S
ATOM  13832  C5* A   A 665     170.841 115.694 -62.309  1.00 61.34      A16S
ATOM  13833  C4* A   A 665     171.053 114.472 -61.449  1.00 61.34      A16S
ATOM  13834  O4* A   A 665     172.291 114.558 -60.700  1.00 61.34      A16S
ATOM  13835  C1* A   A 665     172.229 113.664 -59.614  1.00 61.34      A16S
ATOM  13836  N9  A   A 665     172.690 114.334 -58.400  1.00 29.94      A16S
ATOM  13837  C4  A   A 665     173.268 113.691 -57.333  1.00 29.94      A16S
ATOM  13838  N3  A   A 665     173.516 112.379 -57.215  1.00 29.94      A16S
ATOM  13839  C2  A   A 665     174.093 112.110 -56.049  1.00 29.94      A16S
ATOM  13840  N1  A   A 665     174.411 112.932 -55.055  1.00 29.94      A16S
ATOM  13841  C6  A   A 665     174.135 114.242 -55.193  1.00 29.94      A16S
ATOM  13842  N6  A   A 665     174.427 115.050 -54.178  1.00 29.94      A16S
ATOM  13843  C5  A   A 665     173.543 114.667 -56.401  1.00 29.94      A16S
ATOM  13844  N7  A   A 665     173.157 115.913 -56.872  1.00 29.94      A16S
ATOM  13845  C8  A   A 665     172.654 115.659 -58.060  1.00 29.94      A16S
ATOM  13846  C2* A   A 665     170.795 113.143 -59.530  1.00 61.34      A16S
ATOM  13847  O2* A   A 665     170.762 111.858 -60.117  1.00 61.34      A16S
ATOM  13848  C3* A   A 665     170.033 114.154 -60.380  1.00 61.34      A16S
ATOM  13849  O3* A   A 665     168.830 113.604 -60.901  1.00 61.34      A16S
ATOM  13850  P   G   A 666     167.418 114.030 -60.240  1.00 35.03      A16S
ATOM  13851  O1P G   A 666     166.589 114.577 -61.338  1.00 46.17      A16S
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ATOM  13852  O2P G   A 666     167.655 114.853 -59.031  1.00 46.17      A16S
ATOM  13853  O5* G   A 666     166.791 112.651 -59.755  1.00 35.03      A16S
ATOM  13854  C5* G   A 666     167.132 112.106 -58.479  1.00 35.03      A16S
ATOM  13855  C4* G   A 666     166.272 110.908 -58.182  1.00 35.03      A16S
ATOM  13856  O4* G   A 666     164.889 111.281 -58.405  1.00 35.03      A16S
ATOM  13857  C1* G   A 666     164.163 110.174 -58.906  1.00 35.03      A16S
ATOM  13858  N9  G   A 666     163.732 110.487 -60.264  1.00 46.17      A16S
ATOM  13859  C4  G   A 666     163.007 109.671 -61.097  1.00 46.17      A16S
ATOM  13860  N3  G   A 666     162.537 108.443 -60.793  1.00 46.17      A16S
ATOM  13861  C2  G   A 666     161.894 107.899 -61.806  1.00 46.17      A16S
ATOM  13862  N2  G   A 666     161.357 106.682 -61.675  1.00 46.17      A16S
ATOM  13863  N1  G   A 666     161.733 108.508 -63.022  1.00 46.17      A16S
ATOM  13864  C6  G   A 666     162.215 109.767 -63.356  1.00 46.17      A16S
ATOM  13865  O6  G   A 666     162.033 110.218 -64.488  1.00 46.17      A16S
ATOM  13866  C5  G   A 666     162.891 110.365 -62.279  1.00 46.17      A16S
ATOM  13867  N7  G   A 666     163.506 111.604 -62.186  1.00 46.17      A16S
ATOM  13868  C8  G   A 666     163.986 111.634 -60.974  1.00 46.17      A16S
ATOM  13869  C2* G   A 666     165.112 108.988 -58.907  1.00 35.03      A16S
ATOM  13870  O2* G   A 666     164.991 108.355 -57.653  1.00 35.03      A16S
ATOM  13871  C3* G   A 666     166.450 109.687 -59.066  1.00 35.03      A16S
ATOM  13872  O3* G   A 666     167.537 108.866 -58.678  1.00 35.03      A16S
ATOM  13873  P   G   A 667     168.331 108.030 -59.804  1.00 36.01      A16S
ATOM  13874  O1P G   A 667     169.461 107.385 -59.107  1.00 36.04      A16S
ATOM  13875  O2P G   A 667     168.609 108.897 -60.980  1.00 36.04      A16S
ATOM  13876  O5* G   A 667     167.294 106.901 -60.233  1.00 36.01      A16S
ATOM  13877  C5* G   A 667     166.897 105.896 -59.295  1.00 36.01      A16S
ATOM  13878  C4* G   A 667     165.981 104.896 -59.950  1.00 36.01      A16S
ATOM  13879  O4* G   A 667     164.814 105.603 -60.411  1.00 36.01      A16S
ATOM  13880  C1* G   A 667     164.362 105.044 -61.626  1.00 36.01      A16S
ATOM  13881  N9  G   A 667     164.526 106.054 -62.666  1.00 36.04      A16S
ATOM  13882  C4  G   A 667     164.085 105.964 -63.955  1.00 36.04      A16S
ATOM  13883  N3  G   A 667     163.428 104.919 -64.487  1.00 36.04      A16S
ATOM  13884  C2  G   A 667     163.124 105.123 -65.749  1.00 36.04      A16S
ATOM  13885  N2  G   A 667     162.457 104.173 -66.426  1.00 36.04      A16S
ATOM  13886  N1  G   A 667     163.448 106.272 -66.439  1.00 36.04      A16S
ATOM  13887  C6  G   A 667     164.122 107.364 -65.900  1.00 36.04      A16S
ATOM  13888  O6  G   A 667     164.353 108.360 -66.596  1.00 36.04      A16S
ATOM  13889  C5  G   A 667     164.451 107.149 -64.550  1.00 36.04      A16S
ATOM  13890  N7  G   A 667     165.114 107.966 -63.653  1.00 36.04      A16S
ATOM  13891  C8  G   A 667     165.139 107.275 -62.550  1.00 36.04      A16S
ATOM  13892  C2* G   A 667     165.205 103.805 -61.892  1.00 36.01      A16S
ATOM  13893  O2* G   A 667     164.593 102.700 -61.261  1.00 36.01      A16S
ATOM  13894  C3* G   A 667     166.494 104.180 -61.191  1.00 36.01      A16S
ATOM  13895  O3* G   A 667     167.272 103.031 -60.905  1.00 36.01      A16S
ATOM  13896  P   G   A 668     168.488 102.643 -61.885  1.00 34.41      A16S
ATOM  13897  O1P G   A 668     169.255 101.577 -61.192  1.00 40.96      A16S
ATOM  13898  O2P G   A 668     169.174 103.904 -62.282  1.00 40.96      A16S
ATOM  13899  O5* G   A 668     167.775 102.011 -63.170  1.00 34.41      A16S
ATOM  13900  C5* G   A 668     167.047 100.762 -63.074  1.00 34.41      A16S
ATOM  13901  C4* G   A 668     166.323 100.469 -64.366  1.00 34.41      A16S
ATOM  13902  O4* G   A 668     165.386 101.538 -64.627  1.00 34.41      A16S
ATOM  13903  C1* G   A 668     165.288 101.762 -66.019  1.00 34.41      A16S
ATOM  13904  N9  G   A 668     165.781 103.099 -66.293  1.00 40.96      A16S
ATOM  13905  C4  G   A 668     165.713 103.754 -67.493  1.00 40.96      A16S
ATOM  13906  N3  G   A 668     165.147 103.283 -68.616  1.00 40.96      A16S
ATOM  13907  C2  G   A 668     165.241 104.141 -69.611  1.00 40.96      A16S
ATOM  13908  N2  G   A 668     164.720 103.832 -70.805  1.00 40.96      A16S
ATOM  13909  N1  G   A 668     165.853 105.357 -69.509  1.00 40.96      A16S
ATOM  13910  C6  G   A 668     166.462 105.849 -68.364  1.00 40.96      A16S
ATOM  13911  O6  G   A 668     167.030 106.941 -68.390  1.00 40.96      A16S
ATOM  13912  C5  G   A 668     166.347 104.955 -67.290  1.00 40.96      A16S
ATOM  13913  N7  G   A 668     166.789 105.064 -65.979  1.00 40.96      A16S
ATOM  13914  C8  G   A 668     166.429 103.941 -65.423  1.00 40.96      A16S
ATOM  13915  C2* G   A 668     166.173 100.741 -66.718  1.00 34.41      A16S
ATOM  13916  O2* G   A 668     165.387  99.638 -67.085  1.00 34.41      A16S
ATOM  13917  C3* G   A 668     167.173 100.406 -65.625  1.00 34.41      A16S
ATOM  13918  O3* G   A 668     167.759  99.124 -65.828  1.00 34.41      A16S
ATOM  13919  P   U   A 669     169.250  99.019 -66.429  1.00 45.90      A16S
ATOM  13920  O1P U   A 669     169.677  97.606 -66.269  1.00 52.39      A16S
ATOM  13921  O2P U   A 669     170.072 100.110 -65.836  1.00 52.39      A16S
ATOM  13922  O5* U   A 669     169.068  99.331 -67.980  1.00 45.90      A16S
ATOM  13923  C5* U   A 669     168.293  98.449 -68.804  1.00 45.90      A16S
ATOM  13924  C4* U   A 669     168.192  98.975 -70.219  1.00 45.90      A16S
ATOM  13925  O4* U   A 669     167.401 100.187 -70.280  1.00 45.90      A16S
ATOM  13926  C1* U   A 669     167.840 100.981 -71.362  1.00 45.90      A16S
ATOM  13927  N1  U   A 669     168.284 102.276 -70.839  1.00 52.39      A16S
ATOM  13928  C6  U   A 669     168.808 102.387 -69.578  1.00 52.39      A16S
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ATOM  13929  C2  U   A 669     168.168 103.382 -71.663  1.00 52.39      A16S
ATOM  13930  O2  U   A 669     167.716 103.326 -72.788  1.00 52.39      A16S
ATOM  13931  N3  U   A 669     168.604 104.558 -71.116  1.00 52.39      A16S
ATOM  13932  C4  U   A 669     169.130 104.737 -69.858  1.00 52.39      A16S
ATOM  13933  O4  U   A 669     169.383 105.873 -69.468  1.00 52.39      A16S
ATOM  13934  C5  U   A 669     169.227 103.547 -69.075  1.00 52.39      A16S
ATOM  13935  C2* U   A 669     168.983 100.239 -72.046  1.00 45.90      A16S
ATOM  13936  O2* U   A 669     168.455  99.486 -73.118  1.00 45.90      A16S
ATOM  13937  C3* U   A 669     169.480  99.341 -70.924  1.00 45.90      A16S
ATOM  13938  O3* U   A 669     170.120  98.189 -71.436  1.00 45.90      A16S
ATOM  13939  P   G   A 670     171.688  98.234 -71.758  1.00 58.22      A16S
ATOM  13940  O1P G   A 670     172.007  96.813 -72.053  1.00 48.50      A16S
ATOM  13941  O2P G   A 670     172.419  98.947 -70.681  1.00 48.50      A16S
ATOM  13942  O5* G   A 670     171.795  99.119 -73.082  1.00 58.22      A16S
ATOM  13943  C5* G   A 670     171.347  98.593 -74.346  1.00 58.22      A16S
ATOM  13944  C4* G   A 670     171.317  99.673 -75.401  1.00 58.22      A16S
ATOM  13945  O4* G   A 670     170.385 100.711 -75.002  1.00 58.22      A16S
ATOM  13946  C1* G   A 670     170.871 101.972 -75.418  1.00 58.22      A16S
ATOM  13947  N9  G   A 670     171.240 102.715 -74.225  1.00 48.50      A16S
ATOM  13948  C4  G   A 670     171.485 104.058 -74.160  1.00 48.50      A16S
ATOM  13949  N3  G   A 670     171.389 104.926 -75.187  1.00 48.50      A16S
ATOM  13950  C2  G   A 670     171.692 106.159 -74.825  1.00 48.50      A16S
ATOM  13951  N2  G   A 670     171.622 107.146 -75.732  1.00 48.50      A16S
ATOM  13952  N1  G   A 670     172.078 106.508 -73.552  1.00 48.50      A16S
ATOM  13953  C6  G   A 670     172.198 105.623 -72.484  1.00 48.50      A16S
ATOM  13954  O6  G   A 670     172.578 106.032 -71.382  1.00 48.50      A16S
ATOM  13955  C5  G   A 670     171.853 104.300 -72.861  1.00 48.50      A16S
ATOM  13956  N7  G   A 670     171.827 103.131 -72.117  1.00 48.50      A16S
ATOM  13957  C8  G   A 670     171.452 102.218 -72.967  1.00 48.50      A16S
ATOM  13958  C2* G   A 670     172.138 101.732 -76.236  1.00 58.22      A16S
ATOM  13959  O2* G   A 670     171.861 101.668 -77.623  1.00 58.22      A16S
ATOM  13960  C3* G   A 670     172.616 100.419 -75.643  1.00 58.22      A16S
ATOM  13961  O3* G   A 670     173.530  99.742 -76.480  1.00 58.22      A16S
ATOM  13962  P   G   A 671     175.089  99.761 -76.096  1.00 59.69      A16S
ATOM  13963  O1P G   A 671     175.731  98.645 -76.834  1.00 49.84      A16S
ATOM  13964  O2P G   A 671     175.182  99.796 -74.622  1.00 49.84      A16S
ATOM  13965  O5* G   A 671     175.613 101.171 -76.636  1.00 59.69      A16S
ATOM  13966  C5* G   A 671     175.370 101.558 -77.994  1.00 59.69      A16S
ATOM  13967  C4* G   A 671     175.216 103.058 -78.115  1.00 59.69      A16S
ATOM  13968  O4* G   A 671     174.356 103.557 -77.061  1.00 59.69      A16S
ATOM  13969  C1* G   A 671     174.649 104.922 -76.827  1.00 59.69      A16S
ATOM  13970  N9  G   A 671     174.955 105.112 -75.418  1.00 49.84      A16S
ATOM  13971  C4  G   A 671     175.222 106.318 -74.830  1.00 49.84      A16S
ATOM  13972  N3  G   A 671     175.203 107.513 -75.448  1.00 49.84      A16S
ATOM  13973  C2  G   A 671     175.523 108.492 -74.632  1.00 49.84      A16S
ATOM  13974  N2  G   A 671     175.549 109.742 -75.085  1.00 49.84      A16S
ATOM  13975  N1  G   A 671     175.841 108.316 -73.310  1.00 49.84      A16S
ATOM  13976  C6  G   A 671     175.870 107.093 -72.652  1.00 49.84      A16S
ATOM  13977  O6  G   A 671     176.182 107.043 -71.455  1.00 49.84      A16S
ATOM  13978  C5  G   A 671     175.520 106.030 -73.519  1.00 49.84      A16S
ATOM  13979  N7  G   A 671     175.418 104.665 -73.280  1.00 49.84      A16S
ATOM  13980  C8  G   A 671     175.072 104.162 -74.435  1.00 49.84      A16S
ATOM  13981  C2* G   A 671     175.856 105.301 -77.684  1.00 59.69      A16S
ATOM  13982  O2* G   A 671     175.436 106.028 -78.825  1.00 59.69      A16S
ATOM  13983  C3* G   A 671     176.453 103.935 -78.003  1.00 59.69      A16S
ATOM  13984  O3* G   A 671     177.187 103.988 -79.214  1.00 59.69      A16S
ATOM  13985  P   U   A 672     178.789 103.907 -79.171  1.00 46.84      A16S
ATOM  13986  O1P U   A 672     179.244 103.782 -80.581  1.00 59.57      A16S
ATOM  13987  O2P U   A 672     179.194 102.880 -78.169  1.00 59.57      A16S
ATOM  13988  O5* U   A 672     179.244 105.328 -78.630  1.00 46.84      A16S
ATOM  13989  C5* U   A 672     179.107 106.472 -79.449  1.00 46.84      A16S
ATOM  13990  C4* U   A 672     179.110 107.701 -78.603  1.00 46.84      A16S
ATOM  13991  O4* U   A 672     178.244 107.467 -77.472  1.00 46.84      A16S
ATOM  13992  C1* U   A 672     178.672 108.259 -76.384  1.00 46.84      A16S
ATOM  13993  N1  U   A 672     178.789 107.417 -75.191  1.00 59.57      A16S
ATOM  13994  C6  U   A 672     178.744 106.052 -75.268  1.00 59.57      A16S
ATOM  13995  C2  U   A 672     178.943 108.056 -73.988  1.00 59.57      A16S
ATOM  13996  O2  U   A 672     179.004 109.263 -73.883  1.00 59.57      A16S
ATOM  13997  N3  U   A 672     179.026 107.229 -72.908  1.00 59.57      A16S
ATOM  13998  C4  U   A 672     178.974 105.855 -72.911  1.00 59.57      A16S
ATOM  13999  O4  U   A 672     178.987 105.249 -71.838  1.00 59.57      A16S
ATOM  14000  C5  U   A 672     178.829 105.269 -74.200  1.00 59.57      A16S
ATOM  14001  C2* U   A 672     179.982 108.937 -76.776  1.00 46.84      A16S
ATOM  14002  O2* U   A 672     179.720 110.291 -77.104  1.00 46.84      A16S
ATOM  14003  C3* U   A 672     180.427 108.096 -77.968  1.00 46.84      A16S
ATOM  14004  O3* U   A 672     181.210 108.872 -78.860  1.00 46.84      A16S
ATOM  14005  P   G   A 673     182.769 109.107 -78.547  1.00 68.78      A16S
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ATOM  14006  O1P G   A 673     183.351 109.653 -79.810  1.00 49.23      A16S
ATOM  14007  O2P G   A 673     183.343 107.876 -77.929  1.00 49.23      A16S
ATOM  14008  O5* G   A 673     182.789 110.265 -77.460  1.00 68.78      A16S
ATOM  14009  C5* G   A 673     182.624 111.622 -77.859  1.00 68.78      A16S
ATOM  14010  C4* G   A 673     183.099 112.531 -76.771  1.00 68.78      A16S
ATOM  14011  O4* G   A 673     182.268 112.319 -75.611  1.00 68.78      A16S
ATOM  14012  C1* G   A 673     183.041 112.455 -74.443  1.00 68.78      A16S
ATOM  14013  N9  G   A 673     182.939 111.216 -73.689  1.00 49.23      A16S
ATOM  14014  C4  G   A 673     183.101 111.078 -72.338  1.00 49.23      A16S
ATOM  14015  N3  G   A 673     183.390 112.069 -71.473  1.00 49.23      A16S
ATOM  14016  C2  G   A 673     183.494 111.630 -70.235  1.00 49.23      A16S
ATOM  14017  N2  G   A 673     183.795 112.491 -69.260  1.00 49.23      A16S
ATOM  14018  N1  G   A 673     183.317 110.318 -69.870  1.00 49.23      A16S
ATOM  14019  C6  G   A 673     183.014 109.281 -70.744  1.00 49.23      A16S
ATOM  14020  O6  G   A 673     182.875 108.132 -70.313  1.00 49.23      A16S
ATOM  14021  C5  G   A 673     182.908 109.742 -72.080  1.00 49.23      A16S
ATOM  14022  N7  G   A 673     182.628 109.053 -73.249  1.00 49.23      A16S
ATOM  14023  C8  G   A 673     182.659 109.968 -74.178  1.00 49.23      A16S
ATOM  14024  C2* G   A 673     184.469 112.807 -74.854  1.00 68.78      A16S
ATOM  14025  O2* G   A 673     184.609 114.209 -74.738  1.00 68.78      A16S
ATOM  14026  C3* G   A 673     184.519 112.289 -76.292  1.00 68.78      A16S
ATOM  14027  O3* G   A 673     185.453 112.989 -77.128  1.00 68.78      A16S
ATOM  14028  P   G   A 674     186.929 112.384 -77.386  1.00 48.92      A16S
ATOM  14029  O1P G   A 674     187.441 113.031 -78.624  1.00 40.75      A16S
ATOM  14030  O2P G   A 674     186.874 110.893 -77.302  1.00 40.75      A16S
ATOM  14031  O5* G   A 674     187.786 112.944 -76.163  1.00 48.92      A16S
ATOM  14032  C5* G   A 674     188.017 114.358 -76.026  1.00 48.92      A16S
ATOM  14033  C4* G   A 674     188.218 114.726 -74.580  1.00 48.92      A16S
ATOM  14034  O4* G   A 674     187.060 114.295 -73.825  1.00 48.92      A16S
ATOM  14035  C1* G   A 674     187.448 113.936 -72.509  1.00 48.92      A16S
ATOM  14036  N9  G   A 674     187.145 112.529 -72.289  1.00 40.75      A16S
ATOM  14037  C4  G   A 674     186.914 111.921 -71.075  1.00 40.75      A16S
ATOM  14038  N3  G   A 674     186.889 112.530 -69.869  1.00 40.75      A16S
ATOM  14039  C2  G   A 674     186.658 111.666 -68.891  1.00 40.75      A16S
ATOM  14040  N2  G   A 674     186.600 112.082 -67.615  1.00 40.75      A16S
ATOM  14041  N1  G   A 674     186.469 110.327 -69.088  1.00 40.75      A16S
ATOM  14042  C6  G   A 674     186.497 109.689 -70.320  1.00 40.75      A16S
ATOM  14043  O6  G   A 674     186.330 108.476 -70.385  1.00 40.75      A16S
ATOM  14044  C5  G   A 674     186.735 110.587 -71.366  1.00 40.75      A16S
ATOM  14045  N7  G   A 674     186.828 110.362 -72.730  1.00 40.75      A16S
ATOM  14046  C8  G   A 674     187.065 111.540 -73.237  1.00 40.75      A16S
ATOM  14047  C2* G   A 674     188.948 114.158 -72.399  1.00 48.92      A16S
ATOM  14048  O2* G   A 674     189.172 115.426 -71.823  1.00 48.92      A16S
ATOM  14049  C3* G   A 674     189.377 114.066 -73.857  1.00 48.92      A16S
ATOM  14050  O3* G   A 674     190.627 114.704 -74.068  1.00 48.92      A16S
ATOM  14051  P   A   A 675     191.978 113.933 -73.649  1.00 49.93      A16S
ATOM  14052  O1P A   A 675     193.145 114.726 -74.117  1.00 42.00      A16S
ATOM  14053  O2P A   A 675     191.836 112.517 -74.074  1.00 42.00      A16S
ATOM  14054  O5* A   A 675     191.959 113.957 -72.055  1.00 49.93      A16S
ATOM  14055  C5* A   A 675     192.032 115.200 -71.342  1.00 49.93      A16S
ATOM  14056  C4* A   A 675     192.093 114.961 -69.850  1.00 49.93      A16S
ATOM  14057  O4* A   A 675     190.819 114.481 -69.352  1.00 49.93      A16S
ATOM  14058  C1* A   A 675     191.036 113.643 -68.230  1.00 49.93      A16S
ATOM  14059  N9  A   A 675     190.527 112.298 -68.523  1.00 42.00      A16S
ATOM  14060  C4  A   A 675     190.174 111.343 -67.595  1.00 42.00      A16S
ATOM  14061  N3  A   A 675     190.156 111.468 -66.255  1.00 42.00      A16S
ATOM  14062  C2  A   A 675     189.807 110.326 -65.685  1.00 42.00      A16S
ATOM  14063  N1  A   A 675     189.500 109.158 -66.252  1.00 42.00      A16S
ATOM  14064  C6  A   A 675     189.525 109.065 -67.594  1.00 42.00      A16S
ATOM  14065  N6  A   A 675     189.229 107.896 -68.157  1.00 42.00      A16S
ATOM  14066  C5  A   A 675     189.870 110.208 -68.319  1.00 42.00      A16S
ATOM  14067  N7  A   A 675     189.978 110.449 -69.680  1.00 42.00      A16S
ATOM  14068  C8  A   A 675     190.358 111.702 -69.748  1.00 42.00      A16S
ATOM  14069  C2* A   A 675     192.544 113.603 -67.981  1.00 49.93      A16S
ATOM  14070  O2* A   A 675     192.909 114.618 -67.074  1.00 49.93      A16S
ATOM  14071  C3* A   A 675     193.088 113.928 -69.357  1.00 49.93      A16S
ATOM  14072  O3* A   A 675     194.415 114.417 -69.274  1.00 49.93      A16S
ATOM  14073  P   A   A 676     195.643 113.404 -69.521  1.00 47.53      A16S
ATOM  14074  O1P A   A 676     196.877 114.242 -69.593  1.00 22.69      A16S
ATOM  14075  O2P A   A 676     195.287 112.507 -70.647  1.00 22.69      A16S
ATOM  14076  O5* A   A 676     195.675 112.480 -68.222  1.00 47.53      A16S
ATOM  14077  C5* A   A 676     195.995 113.033 -66.943  1.00 47.53      A16S
ATOM  14078  C4* A   A 676     195.683 112.045 -65.856  1.00 47.53      A16S
ATOM  14079  O4* A   A 676     194.281 111.704 -65.905  1.00 47.53      A16S
ATOM  14080  C1* A   A 676     194.106 110.358 -65.502  1.00 47.53      A16S
ATOM  14081  N9  A   A 676     193.537 109.620 -66.620  1.00 22.69      A16S
ATOM  14082  C4  A   A 676     193.009 108.355 -66.577  1.00 22.69      A16S
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ATOM  14083  N3  A   A 676     192.895 107.557 -65.506  1.00 22.69      A16S
ATOM  14084  C2  A   A 676     192.374 106.389 -65.855  1.00 22.69      A16S
ATOM  14085  N1  A   A 676     191.980 105.966 -67.059  1.00 22.69      A16S
ATOM  14086  C6  A   A 676     192.096 106.810 -68.104  1.00 22.69      A16S
ATOM  14087  N6  A   A 676     191.685 106.409 -69.305  1.00 22.69      A16S
ATOM  14088  C5  A   A 676     192.639 108.063 -67.867  1.00 22.69      A16S
ATOM  14089  N7  A   A 676     192.907 109.127 -68.707  1.00 22.69      A16S
ATOM  14090  C8  A   A 676     193.437 110.025 -67.920  1.00 22.69      A16S
ATOM  14091  C2* A   A 676     195.478 109.795 -65.157  1.00 47.53      A16S
ATOM  14092  O2* A   A 676     195.682 109.889 -63.766  1.00 47.53      A16S
ATOM  14093  C3* A   A 676     196.386 110.709 -65.957  1.00 47.53      A16S
ATOM  14094  O3* A   A 676     197.674 110.759 -65.403  1.00 47.53      A16S
ATOM  14095  P   U   A 677     198.775 109.710 -65.895  1.00 33.86      A16S
ATOM  14096  O1P U   A 677     200.047 110.152 -65.286  1.00 29.83      A16S
ATOM  14097  O2P U   A 677     198.678 109.585 -67.358  1.00 29.83      A16S
ATOM  14098  O5* U   A 677     198.319 108.336 -65.235  1.00 33.86      A16S
ATOM  14099  C5* U   A 677     198.383 108.172 -63.819  1.00 33.86      A16S
ATOM  14100  C4* U   A 677     197.937 106.794 -63.427  1.00 33.86      A16S
ATOM  14101  O4* U   A 677     196.548 106.622 -63.776  1.00 33.86      A16S
ATOM  14102  C1* U   A 677     196.314 105.282 -64.157  1.00 33.86      A16S
ATOM  14103  N1  U   A 677     195.807 105.261 -65.533  1.00 29.83      A16S
ATOM  14104  C6  U   A 677     196.010 106.308 -66.390  1.00 29.83      A16S
ATOM  14105  C2  U   A 677     195.101 104.155 -65.926  1.00 29.83      A16S
ATOM  14106  O2  U   A 677     194.922 103.202 -65.207  1.00 29.83      A16S
ATOM  14107  N3  U   A 677     194.608 104.200 -67.199  1.00 29.83      A16S
ATOM  14108  C4  U   A 677     194.755 105.215 -68.103  1.00 29.83      A16S
ATOM  14109  O4  U   A 677     194.238 105.112 -69.214  1.00 29.83      A16S
ATOM  14110  C5  U   A 677     195.517 106.327 -67.629  1.00 29.83      A16S
ATOM  14111  C2* U   A 677     197.617 104.520 -63.998  1.00 33.86      A16S
ATOM  14112  O2* U   A 677     197.589 103.935 -62.713  1.00 33.86      A16S
ATOM  14113  C3* U   A 677     198.635 105.644 -64.121  1.00 33.86      A16S
ATOM  14114  O3* U   A 677     199.876 105.329 -63.512  1.00 33.86      A16S
ATOM  14115  P   U   A 678     201.073 104.769 -64.425  1.00 41.25      A16S
ATOM  14116  O1P U   A 678     202.274 104.621 -63.549  1.00 40.30      A16S
ATOM  14117  O2P U   A 678     201.139 105.672 -65.623  1.00 40.30      A16S
ATOM  14118  O5* U   A 678     200.567 103.312 -64.852  1.00 41.25      A16S
ATOM  14119  C5* U   A 678     200.402 102.293 -63.853  1.00 41.25      A16S
ATOM  14120  C4* U   A 678     199.801 101.038 -64.440  1.00 41.25      A16S
ATOM  14121  O4* U   A 678     198.438 101.275 -64.858  1.00 41.25      A16S
ATOM  14122  C1* U   A 678     198.153 100.507 -66.013  1.00 41.25      A16S
ATOM  14123  N1  U   A 678     197.933 101.431 -67.135  1.00 40.30      A16S
ATOM  14124  C6  U   A 678     198.350 102.740 -67.075  1.00 40.30      A16S
ATOM  14125  C2  U   A 678     197.295 100.944 -68.253  1.00 40.30      A16S
ATOM  14126  O2  U   A 678     196.936  99.787 -68.359  1.00 40.30      A16S
ATOM  14127  N3  U   A 678     197.100 101.861 -69.249  1.00 40.30      A16S
ATOM  14128  C4  U   A 678     197.476 103.180 -69.243  1.00 40.30      A16S
ATOM  14129  O4  U   A 678     197.148 103.902 -70.180  1.00 40.30      A16S
ATOM  14130  C5  U   A 678     198.152 103.603 -68.065  1.00 40.30      A16S
ATOM  14131  C2* U   A 678     199.365  99.630 -66.283  1.00 41.25      A16S
ATOM  14132  O2* U   A 678     199.176  98.407 -65.624  1.00 41.25      A16S
ATOM  14133  C3* U   A 678     200.476 100.462 -65.665  1.00 41.25      A16S
ATOM  14134  O3* U   A 678     201.625  99.694 -65.347  1.00 41.25      A16S
ATOM  14135  P   C   A 679     202.921  99.798 -66.291  1.00 43.04      A16S
ATOM  14136  O1P C   A 679     204.082  99.296 -65.520  1.00 31.18      A16S
ATOM  14137  O2P C   A 679     202.957 101.175 -66.861  1.00 31.18      A16S
ATOM  14138  O5* C   A 679     202.600  98.786 -67.475  1.00 43.04      A16S
ATOM  14139  C5* C   A 679     202.122  97.466 -67.199  1.00 43.04      A16S
ATOM  14140  C4* C   A 679     201.424  96.908 -68.412  1.00 43.04      A16S
ATOM  14141  O4* C   A 679     200.222  97.674 -68.668  1.00 43.04      A16S
ATOM  14142  C1* C   A 679     199.989  97.754 -70.058  1.00 43.04      A16S
ATOM  14143  N1  C   A 679     200.028  99.163 -70.442  1.00 31.18      A16S
ATOM  14144  C6  C   A 679     200.810 100.050 -69.766  1.00 31.18      A16S
ATOM  14145  C2  C   A 679     199.251  99.588 -71.513  1.00 31.18      A16S
ATOM  14146  O2  C   A 679     198.584  98.755 -72.132  1.00 31.18      A16S
ATOM  14147  N3  C   A 679     199.252 100.889 -71.862  1.00 31.18      A16S
ATOM  14148  C4  C   A 679     200.014 101.750 -71.196  1.00 31.18      A16S
ATOM  14149  N4  C   A 679     199.992 103.028 -71.578  1.00 31.18      A16S
ATOM  14150  C5  C   A 679     200.836 101.341 -70.107  1.00 31.18      A16S
ATOM  14151  C2* C   A 679     201.076  96.949 -70.761  1.00 43.04      A16S
ATOM  14152  O2* C   A 679     200.568  95.655 -71.043  1.00 43.04      A16S
ATOM  14153  C3* C   A 679     202.192  96.981 -69.721  1.00 43.04      A16S
ATOM  14154  O3* C   A 679     203.134  95.922 -69.858  1.00 43.04      A16S
ATOM  14155  P   C   A 680     204.499  96.179 -70.667  1.00 60.99      A16S
ATOM  14156  O1P C   A 680     205.320  94.962 -70.481  1.00 48.47      A16S
ATOM  14157  O2P C   A 680     205.059  97.504 -70.301  1.00 48.47      A16S
ATOM  14158  O5* C   A 680     204.014  96.269 -72.184  1.00 60.99      A16S
ATOM  14159  C5* C   A 680     203.440  95.122 -72.837  1.00 60.99      A16S
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ATOM  14160  C4* C   A 680     202.955  95.478 -74.221  1.00 60.99      A16S
ATOM  14161  O4* C   A 680     201.844  96.399 -74.120  1.00 60.99      A16S
ATOM  14162  C1* C   A 680     201.831  97.246 -75.255  1.00 60.99      A16S
ATOM  14163  N1  C   A 680     201.960  98.645 -74.824  1.00 48.47      A16S
ATOM  14164  C6  C   A 680     202.305  98.970 -73.543  1.00 48.47      A16S
ATOM  14165  C2  C   A 680     201.715  99.654 -75.768  1.00 48.47      A16S
ATOM  14166  O2  C   A 680     201.439  99.328 -76.935  1.00 48.47      A16S
ATOM  14167  N3  C   A 680     201.796 100.950 -75.391  1.00 48.47      A16S
ATOM  14168  C4  C   A 680     202.126 101.256 -74.137  1.00 48.47      A16S
ATOM  14169  N4  C   A 680     202.198 102.545 -73.810  1.00 48.47      A16S
ATOM  14170  C5  C   A 680     202.399 100.251 -73.160  1.00 48.47      A16S
ATOM  14171  C2* C   A 680     203.000  96.855 -76.150  1.00 60.99      A16S
ATOM  14172  O2* C   A 680     202.526  95.991 -77.163  1.00 60.99      A16S
ATOM  14173  C3* C   A 680     203.930  96.183 -75.152  1.00 60.99      A16S
ATOM  14174  O3* C   A 680     204.851  95.318 -75.802  1.00 60.99      A16S
ATOM  14175  P   C   A 681     206.237  95.919 -76.357  1.00 57.22      A16S
ATOM  14176  O1P C   A 681     206.981  94.766 -76.906  1.00 52.97      A16S
ATOM  14177  O2P C   A 681     206.871  96.764 -75.317  1.00 52.97      A16S
ATOM  14178  O5* C   A 681     205.786  96.873 -77.553  1.00 57.22      A16S
ATOM  14179  C5* C   A 681     205.304  96.327 -78.799  1.00 57.22      A16S
ATOM  14180  C4* C   A 681     205.179  97.417 -79.841  1.00 57.22      A16S
ATOM  14181  O4* C   A 681     204.118  98.333 -79.460  1.00 57.22      A16S
ATOM  14182  C1* C   A 681     204.469  99.661 -79.823  1.00 57.22      A16S
ATOM  14183  N1  C   A 681     204.611 100.470 -78.594  1.00 52.97      A16S
ATOM  14184  C6  C   A 681     205.045  99.907 -77.426  1.00 52.97      A16S
ATOM  14185  C2  C   A 681     204.308 101.833 -78.645  1.00 52.97      A16S
ATOM  14186  O2  C   A 681     203.923 102.318 -79.708  1.00 52.97      A16S
ATOM  14187  N3  C   A 681     204.446 102.586 -77.533  1.00 52.97      A16S
ATOM  14188  C4  C   A 681     204.868 102.028 -76.402  1.00 52.97      A16S
ATOM  14189  N4  C   A 681     204.984 102.805 -75.329  1.00 52.97      A16S
ATOM  14190  C5  C   A 681     205.190 100.644 -76.319  1.00 52.97      A16S
ATOM  14191  C2* C   A 681     205.794  99.593 -80.576  1.00 57.22      A16S
ATOM  14192  O2* C   A 681     205.540  99.545 -81.966  1.00 57.22      A16S
ATOM  14193  C3* C   A 681     206.394  98.315 -80.005  1.00 57.22      A16S
ATOM  14194  O3* C   A 681     207.412  97.763 -80.818  1.00 57.22      A16S
ATOM  14195  P   G   A 682     208.931  98.232 -80.593  1.00 67.66      A16S
ATOM  14196  O1P G   A 682     209.748  97.324 -81.433  1.00 60.13      A16S
ATOM  14197  O2P G   A 682     209.232  98.360 -79.145  1.00 60.13      A16S
ATOM  14198  O5* G   A 682     208.961  99.691 -81.214  1.00 67.66      A16S
ATOM  14199  C5* G   A 682     208.759  99.859 -82.613  1.00 67.66      A16S
ATOM  14200  C4* G   A 682     208.796 101.313 -82.985  1.00 67.66      A16S
ATOM  14201  O4* G   A 682     207.604 101.975 -82.494  1.00 67.66      A16S
ATOM  14202  C1* G   A 682     207.911 103.322 -82.181  1.00 67.66      A16S
ATOM  14203  N9  G   A 682     207.742 103.535 -80.746  1.00 60.13      A16S
ATOM  14204  C4  G   A 682     207.605 104.758 -80.141  1.00 60.13      A16S
ATOM  14205  N3  G   A 682     207.544 105.947 -80.774  1.00 60.13      A16S
ATOM  14206  C2  G   A 682     207.434 106.949 -79.931  1.00 60.13      A16S
ATOM  14207  N2  G   A 682     207.349 108.196 -80.399  1.00 60.13      A16S
ATOM  14208  N1  G   A 682     207.397 106.800 -78.572  1.00 60.13      A16S
ATOM  14209  C6  G   A 682     207.465 105.588 -77.899  1.00 60.13      A16S
ATOM  14210  O6  G   A 682     207.437 105.570 -76.676  1.00 60.13      A16S
ATOM  14211  C5  G   A 682     207.569 104.499 -78.791  1.00 60.13      A16S
ATOM  14212  N7  G   A 682     207.649 103.133 -78.546  1.00 60.13      A16S
ATOM  14213  C8  G   A 682     207.741 102.598 -79.735  1.00 60.13      A16S
ATOM  14214  C2* G   A 682     209.375 103.551 -82.549  1.00 67.66      A16S
ATOM  14215  O2* G   A 682     209.455 104.044 -83.871  1.00 67.66      A16S
ATOM  14216  C3* G   A 682     209.934 102.144 -82.418  1.00 67.66      A16S
ATOM  14217  O3* G   A 682     211.178 101.977 -83.080  1.00 67.66      A16S
ATOM  14218  P   G   A 683     212.537 102.264 -82.267  1.00 57.23      A16S
ATOM  14219  O1P G   A 683     213.672 101.869 -83.136  1.00 64.10      A16S
ATOM  14220  O2P G   A 683     212.414 101.668 -80.907  1.00 64.10      A16S
ATOM  14221  O5* G   A 683     212.555 103.848 -82.125  1.00 57.23      A16S
ATOM  14222  C5* G   A 683     212.269 104.662 -83.259  1.00 57.23      A16S
ATOM  14223  C4* G   A 683     212.055 106.094 -82.853  1.00 57.23      A16S
ATOM  14224  O4* G   A 683     210.888 106.239 -81.999  1.00 57.23      A16S
ATOM  14225  C1* G   A 683     211.057 107.377 -81.164  1.00 57.23      A16S
ATOM  14226  N9  G   A 683     210.904 106.991 -79.760  1.00 64.10      A16S
ATOM  14227  C4  G   A 683     210.740 107.856 -78.700  1.00 64.10      A16S
ATOM  14228  N3  G   A 683     210.669 109.203 -78.778  1.00 64.10      A16S
ATOM  14229  C2  G   A 683     210.543 109.760 -77.584  1.00 64.10      A16S
ATOM  14230  N2  G   A 683     210.474 111.091 -77.475  1.00 64.10      A16S
ATOM  14231  N1  G   A 683     210.481 109.052 -76.409  1.00 64.10      A16S
ATOM  14232  C6  G   A 683     210.543 107.669 -76.305  1.00 64.10      A16S
ATOM  14233  O6  G   A 683     210.471 107.134 -75.197  1.00 64.10      A16S
ATOM  14234  C5  G   A 683     210.688 107.056 -77.578  1.00 64.10      A16S
ATOM  14235  N7  G   A 683     210.798 105.717 -77.923  1.00 64.10      A16S
ATOM  14236  C8  G   A 683     210.918 105.726 -79.225  1.00 64.10      A16S
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ATOM  14237  C2* G   A 683     212.452 107.943 -81.443  1.00 57.23      A16S
ATOM  14238  O2* G   A 683     212.337 109.020 -82.352  1.00 57.23      A16S
ATOM  14239  C3* G   A 683     213.163 106.742 -82.057  1.00 57.23      A16S
ATOM  14240  O3* G   A 683     214.245 107.118 -82.880  1.00 57.23      A16S
ATOM  14241  P    A   A 684     215.744 106.922 -82.339  1.00 55.94      A16S
ATOM  14242  O1P A   A 684     216.663 107.232 -83.471  1.00 52.14      A16S
ATOM  14243  O2P A   A 684     215.856 105.604 -81.643  1.00 52.14      A16S
ATOM  14244  O5* A   A 684     215.912 108.074 -81.251  1.00 55.94      A16S
ATOM  14245  C5* A   A 684     215.883 109.462 -81.635  1.00 55.94      A16S
ATOM  14246  C4* A   A 684     215.671 110.337 -80.424  1.00 55.94      A16S
ATOM  14247  O4* A   A 684     214.411 109.979 -79.814  1.00 55.94      A16S
ATOM  14248  C1* A   A 684     214.512 110.085 -78.410  1.00 55.94      A16S
ATOM  14249  N9   A   A 684     214.322 108.754 -77.845  1.00 52.14      A16S
ATOM  14250  C4   A   A 684     214.070 108.474 -76.530  1.00 52.14      A16S
ATOM  14251  N3   A   A 684     213.937 109.351 -75.527  1.00 52.14      A16S
ATOM  14252  C2   A   A 684     213.706 108.720 -74.387  1.00 52.14      A16S
ATOM  14253  N1   A   A 684     213.602 107.411 -74.155  1.00 52.14      A16S
ATOM  14254  C6   A   A 684     213.733 106.561 -75.191  1.00 52.14      A16S
ATOM  14255  N6   A   A 684     213.617 105.257 -74.966  1.00 52.14      A16S
ATOM  14256  C5   A   A 684     213.981 107.102 -76.448  1.00 52.14      A16S
ATOM  14257  N7   A   A 684     214.162 106.520 -77.691  1.00 52.14      A16S
ATOM  14258  C8   A   A 684     214.359 107.541 -78.484  1.00 52.14      A16S
ATOM  14259  C2* A   A 684     215.889 110.651 -78.089  1.00 55.94      A16S
ATOM  14260  O2* A   A 684     215.782 112.057 -78.024  1.00 55.94      A16S
ATOM  14261  C3* A   A 684     216.685 110.201 -79.300  1.00 55.94      A16S
ATOM  14262  O3* A   A 684     217.824 111.019 -79.509  1.00 55.94      A16S
ATOM  14263  P    G   A 685     219.280 110.469 -79.107  1.00 56.86      A16S
ATOM  14264  O1P G   A 685     220.237 111.540 -79.512  1.00 54.37      A16S
ATOM  14265  O2P G   A 685     219.461 109.072 -79.610  1.00 54.37      A16S
ATOM  14266  O5* G   A 685     219.245 110.396 -77.517  1.00 56.86      A16S
ATOM  14267  C5* G   A 685     219.132 111.591 -76.723  1.00 56.86      A16S
ATOM  14268  C4* G   A 685     218.862 111.235 -75.285  1.00 56.86      A16S
ATOM  14269  O4* G   A 685     217.607 110.518 -75.201  1.00 56.86      A16S
ATOM  14270  C1* G   A 685     217.658 109.604 -74.127  1.00 56.86      A16S
ATOM  14271  N9   G   A 685     217.353 108.263 -74.607  1.00 54.37      A16S
ATOM  14272  C4   G   A 685     216.936 107.227 -73.814  1.00 54.37      A16S
ATOM  14273  N3   G   A 685     216.725 107.292 -72.483  1.00 54.37      A16S
ATOM  14274  C2   G   A 685     216.323 106.141 -71.990  1.00 54.37      A16S
ATOM  14275  N2   G   A 685     216.057 106.035 -70.684  1.00 54.37      A16S
ATOM  14276  N1   G   A 685     216.148 105.007 -72.738  1.00 54.37      A16S
ATOM  14277  C6   G   A 685     216.359 104.912 -74.108  1.00 54.37      A16S
ATOM  14278  O6   G   A 685     216.157 103.833 -74.686  1.00 54.37      A16S
ATOM  14279  C5   G   A 685     216.791 106.154 -74.657  1.00 54.37      A16S
ATOM  14280  N7   G   A 685     217.106 106.508 -75.962  1.00 54.37      A16S
ATOM  14281  C8   G   A 685     217.431 107.770 -75.884  1.00 54.37      A16S
ATOM  14282  C2* G   A 685     219.049 109.666 -73.508  1.00 56.86      A16S
ATOM  14283  O2* G   A 685     218.984 110.421 -72.320  1.00 56.86      A16S
ATOM  14284  C3* G   A 685     219.862 110.298 -74.632  1.00 56.86      A16S
ATOM  14285  O3* G   A 685     221.010 110.983 -74.157  1.00 56.86      A16S
ATOM  14286  P    U   A 686     222.343 110.153 -73.798  1.00 41.99      A16S
ATOM  14287  O1P U   A 686     223.424 111.178 -73.657  1.00 39.39      A16S
ATOM  14288  O2P U   A 686     222.521 108.993 -74.723  1.00 39.39      A16S
ATOM  14289  O5* U   A 686     222.045 109.525 -72.369  1.00 41.99      A16S
ATOM  14290  C5* U   A 686     221.804 110.378 -71.262  1.00 41.99      A16S
ATOM  14291  C4* U   A 686     221.725 109.582 -70.001  1.00 41.99      A16S
ATOM  14292  O4* U   A 686     220.645 108.621 -70.115  1.00 41.99      A16S
ATOM  14293  C1* U   A 686     221.069 107.420 -69.543  1.00 41.99      A16S
ATOM  14294  N1   U   A 686     220.178 106.337 -69.969  1.00 39.39      A16S
ATOM  14295  C6   U   A 686     220.302 105.718 -71.187  1.00 39.39      A16S
ATOM  14296  C2   U   A 686     219.196 105.952 -69.068  1.00 39.39      A16S
ATOM  14297  O2   U   A 686     219.038 106.489 -67.981  1.00 39.39      A16S
ATOM  14298  N3   U   A 686     218.405 104.915 -69.485  1.00 39.39      A16S
ATOM  14299  C4   U   A 686     218.486 104.242 -70.682  1.00 39.39      A16S
ATOM  14300  O4   U   A 686     217.697 103.326 -70.910  1.00 39.39      A16S
ATOM  14301  C5   U   A 686     219.512 104.711 -71.564  1.00 39.39      A16S
ATOM  14302  C2* U   A 686     222.553 107.348 -69.878  1.00 41.99      A16S
ATOM  14303  O2* U   A 686     223.195 106.443 -69.007  1.00 41.99      A16S
ATOM  14304  C3* U   A 686     222.963 108.789 -69.599  1.00 41.99      A16S
ATOM  14305  O3* U   A 686     223.076 108.901 -68.193  1.00 41.99      A16S
ATOM  14306  P    A   A 687     224.501 109.197 -67.520  1.00 31.76      A16S
ATOM  14307  O1P A   A 687     224.645 110.696 -67.471  1.00 37.24      A16S
ATOM  14308  O2P A   A 687     225.545 108.364 -68.174  1.00 37.24      A16S
ATOM  14309  O5* A   A 687     224.359 108.614 -66.045  1.00 31.76      A16S
ATOM  14310  C5* A   A 687     223.384 109.136 -65.125  1.00 31.76      A16S
ATOM  14311  C4* A   A 687     222.775 108.010 -64.353  1.00 31.76      A16S
ATOM  14312  O4* A   A 687     221.973 107.219 -65.235  1.00 31.76      A16S
ATOM  14313  C1* A   A 687     221.858 105.942 -64.679  1.00 31.76      A16S
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ATOM  14314  N9  A   A 687     221.359 105.053 -65.725  1.00 37.24      A16S
ATOM  14315  C4  A   A 687     220.345 104.129 -65.601  1.00 37.24      A16S
ATOM  14316  N3  A   A 687     219.631 103.836 -64.500  1.00 37.24      A16S
ATOM  14317  C2  A   A 687     218.726 102.895 -64.764  1.00 37.24      A16S
ATOM  14318  N1  A   A 687     218.475 102.260 -65.909  1.00 37.24      A16S
ATOM  14319  C6  A   A 687     219.212 102.572 -66.990  1.00 37.24      A16S
ATOM  14320  N6  A   A 687     218.969 101.928 -68.124  1.00 37.24      A16S
ATOM  14321  C5  A   A 687     220.199 103.561 -66.849  1.00 37.24      A16S
ATOM  14322  N7  A   A 687     221.107 104.106 -67.742  1.00 37.24      A16S
ATOM  14323  C8  A   A 687     221.771 104.979 -67.026  1.00 37.24      A16S
ATOM  14324  C2* A   A 687     223.246 105.629 -64.122  1.00 31.76      A16S
ATOM  14325  O2* A   A 687     223.185 104.730 -63.037  1.00 31.76      A16S
ATOM  14326  C3* A   A 687     223.792 107.028 -63.805  1.00 31.76      A16S
ATOM  14327  O3* A   A 687     224.379 107.416 -62.548  1.00 31.76      A16S
ATOM  14328  P   G   A 688     223.613 107.191 -61.141  1.00 40.58      A16S
ATOM  14329  O1P G   A 688     224.602 107.619 -60.124  1.00 33.33      A16S
ATOM  14330  O2P G   A 688     222.973 105.857 -61.007  1.00 33.33      A16S
ATOM  14331  O5* G   A 688     222.478 108.299 -61.128  1.00 40.58      A16S
ATOM  14332  C5* G   A 688     221.313 108.134 -60.317  1.00 40.58      A16S
ATOM  14333  C4* G   A 688     220.117 107.901 -61.199  1.00 40.58      A16S
ATOM  14334  O4* G   A 688     220.236 106.620 -61.869  1.00 40.58      A16S
ATOM  14335  C1* G   A 688     219.011 105.927 -61.807  1.00 40.58      A16S
ATOM  14336  N9  G   A 688     219.163 104.933 -60.755  1.00 33.33      A16S
ATOM  14337  C4  G   A 688     218.323 103.898 -60.440  1.00 33.33      A16S
ATOM  14338  N3  G   A 688     217.162 103.600 -61.049  1.00 33.33      A16S
ATOM  14339  C2  G   A 688     216.609 102.509 -60.543  1.00 33.33      A16S
ATOM  14340  N2  G   A 688     215.475 102.045 -61.046  1.00 33.33      A16S
ATOM  14341  N1  G   A 688     217.140 101.789 -59.511  1.00 33.33      A16S
ATOM  14342  C6  G   A 688     218.332 102.089 -58.863  1.00 33.33      A16S
ATOM  14343  O6  G   A 688     218.732 101.376 -57.934  1.00 33.33      A16S
ATOM  14344  C5  G   A 688     218.940 103.234 -59.403  1.00 33.33      A16S
ATOM  14345  N7  G   A 688     220.129 103.847 -59.062  1.00 33.33      A16S
ATOM  14346  C8  G   A 688     220.216 104.852 -59.882  1.00 33.33      A16S
ATOM  14347  C2* G   A 688     217.976 106.974 -61.430  1.00 40.58      A16S
ATOM  14348  O2* G   A 688     217.640 107.722 -62.584  1.00 40.58      A16S
ATOM  14349  C3* G   A 688     218.789 107.835 -60.486  1.00 40.58      A16S
ATOM  14350  O3* G   A 688     218.243 109.126 -60.300  1.00 40.58      A16S
ATOM  14351  P   C   A 689     217.332 109.399 -59.017  1.00 40.61      A16S
ATOM  14352  O1P C   A 689     217.038 110.848 -58.984  1.00 23.94      A16S
ATOM  14353  O2P C   A 689     217.988 108.736 -57.850  1.00 23.94      A16S
ATOM  14354  O5* C   A 689     215.997 108.618 -59.365  1.00 40.61      A16S
ATOM  14355  C5* C   A 689     215.324 108.855 -60.609  1.00 40.61      A16S
ATOM  14356  C4* C   A 689     214.217 107.854 -60.788  1.00 40.61      A16S
ATOM  14357  O4* C   A 689     214.796 106.532 -60.835  1.00 40.61      A16S
ATOM  14358  C1* C   A 689     213.933 105.613 -60.208  1.00 40.61      A16S
ATOM  14359  N1  C   A 689     214.640 105.007 -59.083  1.00 23.94      A16S
ATOM  14360  C6  C   A 689     215.761 105.579 -58.562  1.00 23.94      A16S
ATOM  14361  C2  C   A 689     214.136 103.810 -58.545  1.00 23.94      A16S
ATOM  14362  O2  C   A 689     213.098 103.315 -59.043  1.00 23.94      A16S
ATOM  14363  N3  C   A 689     214.779 103.226 -57.506  1.00 23.94      A16S
ATOM  14364  C4  C   A 689     215.876 103.792 -57.008  1.00 23.94      A16S
ATOM  14365  N4  C   A 689     216.482 103.184 -55.985  1.00 23.94      A16S
ATOM  14366  C5  C   A 689     216.405 105.013 -57.537  1.00 23.94      A16S
ATOM  14367  C2* C   A 689     212.690 106.364 -59.752  1.00 40.61      A16S
ATOM  14368  O2* C   A 689     211.684 106.229 -60.734  1.00 40.61      A16S
ATOM  14369  C3* C   A 689     213.222 107.780 -59.642  1.00 40.61      A16S
ATOM  14370  O3* C   A 689     212.195 108.751 -59.743  1.00 40.61      A16S
ATOM  14371  P   G   A 690     211.621 109.417 -58.409  1.00 34.02      A16S
ATOM  14372  O1P G   A 690     210.522 110.278 -58.879  1.00 42.49      A16S
ATOM  14373  O2P G   A 690     212.731 110.001 -57.611  1.00 42.49      A16S
ATOM  14374  O5* G   A 690     211.035 108.184 -57.592  1.00 34.02      A16S
ATOM  14375  C5* G   A 690     210.031 107.337 -58.161  1.00 34.02      A16S
ATOM  14376  C4* G   A 690     209.828 106.112 -57.300  1.00 34.02      A16S
ATOM  14377  O4* G   A 690     211.061 105.356 -57.241  1.00 34.02      A16S
ATOM  14378  C1* G   A 690     211.234 104.807 -55.945  1.00 34.02      A16S
ATOM  14379  N9  G   A 690     212.464 105.369 -55.406  1.00 42.49      A16S
ATOM  14380  C4  G   A 690     213.352 104.768 -54.556  1.00 42.49      A16S
ATOM  14381  N3  G   A 690     213.228 103.542 -54.016  1.00 42.49      A16S
ATOM  14382  C2  G   A 690     214.277 103.223 -53.265  1.00 42.49      A16S
ATOM  14383  N2  G   A 690     214.335 102.032 -52.652  1.00 42.49      A16S
ATOM  14384  N1  G   A 690     215.352 104.043 -53.058  1.00 42.49      A16S
ATOM  14385  C6  G   A 690     215.496 105.318 -53.596  1.00 42.49      A16S
ATOM  14386  O6  G   A 690     216.519 105.996 -53.338  1.00 42.49      A16S
ATOM  14387  C5  G   A 690     214.379 105.670 -54.407  1.00 42.49      A16S
ATOM  14388  N7  G   A 690     214.123 106.830 -55.121  1.00 42.49      A16S
ATOM  14389  C8  G   A 690     212.976 106.609 -55.690  1.00 42.49      A16S
ATOM  14390  C2* G   A 690     209.986 105.136 -55.129  1.00 34.02      A16S
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ATOM  14391  O2*  G   A 690     209.111 104.027 -55.203  1.00 34.02      A16S
ATOM  14392  C3*  G   A 690     209.464 106.381 -55.849  1.00 34.02      A16S
ATOM  14393  O3*  G   A 690     208.052 106.574 -55.719  1.00 34.02      A16S
ATOM  14394  P    G   A 691     207.490 107.857 -54.929  1.00 39.93      A16S
ATOM  14395  O1P  G   A 691     206.056 107.951 -55.276  1.00 36.89      A16S
ATOM  14396  O2P  G   A 691     208.365 109.039 -55.130  1.00 36.89      A16S
ATOM  14397  O5*  G   A 691     207.598 107.389 -53.424  1.00 39.93      A16S
ATOM  14398  C5*  G   A 691     206.802 106.306 -52.991  1.00 39.93      A16S
ATOM  14399  C4*  G   A 691     207.505 105.559 -51.921  1.00 39.93      A16S
ATOM  14400  O4*  G   A 691     208.748 105.054 -52.445  1.00 39.93      A16S
ATOM  14401  C1*  G   A 691     209.734 105.075 -51.426  1.00 39.93      A16S
ATOM  14402  N9   G   A 691     210.759 106.029 -51.815  1.00 36.89      A16S
ATOM  14403  C4   G   A 691     212.082 106.010 -51.455  1.00 36.89      A16S
ATOM  14404  N3   G   A 691     212.685 105.064 -50.709  1.00 36.89      A16S
ATOM  14405  C2   G   A 691     213.959 105.334 -50.519  1.00 36.89      A16S
ATOM  14406  N2   G   A 691     214.721 104.475 -49.814  1.00 36.89      A16S
ATOM  14407  N1   G   A 691     214.579 106.466 -51.013  1.00 36.89      A16S
ATOM  14408  C6   G   A 691     213.955 107.451 -51.778  1.00 36.89      A16S
ATOM  14409  O6   G   A 691     214.582 108.437 -52.169  1.00 36.89      A16S
ATOM  14410  C5   G   A 691     212.620 107.156 -51.997  1.00 36.89      A16S
ATOM  14411  N7   G   A 691     211.666 107.862 -52.708  1.00 36.89      A16S
ATOM  14412  C8   G   A 691     210.579 107.153 -52.579  1.00 36.89      A16S
ATOM  14413  C2*  G   A 691     209.061 105.577 -50.152  1.00 39.93      A16S
ATOM  14414  O2*  G   A 691     208.624 104.472 -49.375  1.00 39.93      A16S
ATOM  14415  C3*  G   A 691     207.923 106.397 -50.735  1.00 39.93      A16S
ATOM  14416  O3*  G   A 691     206.856 106.593 -49.838  1.00 39.93      A16S
ATOM  14417  P    U   A 692     206.629 108.042 -49.203  1.00 44.79      A16S
ATOM  14418  O1P  U   A 692     205.187 108.123 -48.891  1.00 47.90      A16S
ATOM  14419  O2P  U   A 692     207.242 109.051 -50.095  1.00 47.90      A16S
ATOM  14420  O5*  U   A 692     207.452 107.977 -47.849  1.00 44.79      A16S
ATOM  14421  C5*  U   A 692     207.215 106.908 -46.927  1.00 44.79      A16S
ATOM  14422  C4*  U   A 692     208.233 106.937 -45.820  1.00 44.79      A16S
ATOM  14423  O4*  U   A 692     209.504 106.424 -46.287  1.00 44.79      A16S
ATOM  14424  C1*  U   A 692     210.557 107.147 -45.679  1.00 44.79      A16S
ATOM  14425  N1   U   A 692     211.343 107.788 -46.746  1.00 47.90      A16S
ATOM  14426  C6   U   A 692     210.751 108.177 -47.928  1.00 47.90      A16S
ATOM  14427  C2   U   A 692     212.686 107.998 -46.525  1.00 47.90      A16S
ATOM  14428  O2   U   A 692     213.251 107.641 -45.508  1.00 47.90      A16S
ATOM  14429  N3   U   A 692     213.348 108.640 -47.546  1.00 47.90      A16S
ATOM  14430  C4   U   A 692     212.812 109.077 -48.749  1.00 47.90      A16S
ATOM  14431  O4   U   A 692     213.514 109.727 -49.543  1.00 47.90      A16S
ATOM  14432  C5   U   A 692     211.420 108.792 -48.909  1.00 47.90      A16S
ATOM  14433  C2*  U   A 692     209.930 108.134 -44.685  1.00 44.79      A16S
ATOM  14434  O2*  U   A 692     209.853 107.533 -43.411  1.00 44.79      A16S
ATOM  14435  C3*  U   A 692     208.533 108.313 -45.256  1.00 44.79      A16S
ATOM  14436  O3*  U   A 692     207.581 108.651 -44.255  1.00 44.79      A16S
ATOM  14437  P    G   A 693     207.388 110.185 -43.823  1.00 58.87      A16S
ATOM  14438  O1P  G   A 693     205.962 110.359 -43.461  1.00 49.61      A16S
ATOM  14439  O2P  G   A 693     207.974 111.056 -44.875  1.00 49.61      A16S
ATOM  14440  O5*  G   A 693     208.285 110.294 -42.505  1.00 58.87      A16S
ATOM  14441  C5*  G   A 693     208.494 111.561 -41.844  1.00 58.87      A16S
ATOM  14442  C4*  G   A 693     209.868 111.614 -41.215  1.00 58.87      A16S
ATOM  14443  O4*  G   A 693     209.915 110.799 -40.026  1.00 58.87      A16S
ATOM  14444  C1*  G   A 693     211.184 110.188 -39.915  1.00 58.87      A16S
ATOM  14445  N9   G   A 693     210.964 108.748 -39.866  1.00 49.61      A16S
ATOM  14446  C4   G   A 693     211.785 107.786 -39.324  1.00 49.61      A16S
ATOM  14447  N3   G   A 693     212.991 107.989 -38.765  1.00 49.61      A16S
ATOM  14448  C2   G   A 693     213.525 106.857 -38.338  1.00 49.61      A16S
ATOM  14449  N2   G   A 693     214.735 106.849 -37.778  1.00 49.61      A16S
ATOM  14450  N1   G   A 693     212.921 105.640 -38.434  1.00 49.61      A16S
ATOM  14451  C6   G   A 693     211.678 105.412 -39.001  1.00 49.61      A16S
ATOM  14452  O6   G   A 693     211.213 104.264 -39.036  1.00 49.61      A16S
ATOM  14453  C5   G   A 693     211.102 106.599 -39.476  1.00 49.61      A16S
ATOM  14454  N7   G   A 693     209.892 106.803 -40.115  1.00 49.61      A16S
ATOM  14455  C8   G   A 693     209.856 108.088 -40.332  1.00 49.61      A16S
ATOM  14456  C2*  G   A 693     212.047 110.677 -41.078  1.00 58.87      A16S
ATOM  14457  O2*  G   A 693     212.812 111.783 -40.663  1.00 58.87      A16S
ATOM  14458  C3*  G   A 693     210.999 111.114 -42.089  1.00 58.87      A16S
ATOM  14459  O3*  G   A 693     211.469 112.182 -42.900  1.00 58.87      A16S
ATOM  14460  P    A   A 694     212.498 111.883 -44.095  1.00 37.76      A16S
ATOM  14461  O1P  A   A 694     212.837 113.194 -44.714  1.00 40.56      A16S
ATOM  14462  O2P  A   A 694     211.973 110.776 -44.957  1.00 40.56      A16S
ATOM  14463  O5*  A   A 694     213.776 111.363 -43.322  1.00 37.76      A16S
ATOM  14464  C5*  A   A 694     214.631 110.463 -43.956  1.00 37.76      A16S
ATOM  14465  C4*  A   A 694     215.480 109.761 -42.958  1.00 37.76      A16S
ATOM  14466  O4*  A   A 694     214.667 109.181 -41.917  1.00 37.76      A16S
ATOM  14467  C1*  A   A 694     215.129 107.871 -41.623  1.00 37.76      A16S
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ATOM  14468  N9  A   A 694     214.044 106.933 -41.924  1.00 40.56      A16S
ATOM  14469  C4  A   A 694     214.024 105.594 -41.631  1.00 40.56      A16S
ATOM  14470  N3  A   A 694     214.994 104.876 -41.053  1.00 40.56      A16S
ATOM  14471  C2  A   A 694     214.608 103.616 -40.902  1.00 40.56      A16S
ATOM  14472  N1  A   A 694     213.456 103.044 -41.232  1.00 40.56      A16S
ATOM  14473  C6  A   A 694     212.506 103.800 -41.805  1.00 40.56      A16S
ATOM  14474  N6  A   A 694     211.343 103.239 -42.106  1.00 40.56      A16S
ATOM  14475  C5  A   A 694     212.792 105.138 -42.037  1.00 40.56      A16S
ATOM  14476  N7  A   A 694     212.054 106.157 -42.610  1.00 40.56      A16S
ATOM  14477  C8  A   A 694     212.840 107.199 -42.526  1.00 40.56      A16S
ATOM  14478  C2* A   A 694     216.378 107.624 -42.463  1.00 37.76      A16S
ATOM  14479  O2* A   A 694     217.503 107.956 -41.692  1.00 37.76      A16S
ATOM  14480  C3* A   A 694     216.135 108.581 -43.614  1.00 37.76      A16S
ATOM  14481  O3* A   A 694     217.229 109.020 -44.364  1.00 37.76      A16S
ATOM  14482  P   A   A 695     217.344 108.545 -45.881  1.00 45.32      A16S
ATOM  14483  O1P A   A 695     218.355 109.413 -46.547  1.00 26.92      A16S
ATOM  14484  O2P A   A 695     215.981 108.476 -46.451  1.00 26.92      A16S
ATOM  14485  O5* A   A 695     217.881 107.058 -45.660  1.00 45.32      A16S
ATOM  14486  C5* A   A 695     217.421 105.961 -46.458  1.00 45.32      A16S
ATOM  14487  C4* A   A 695     217.328 104.711 -45.621  1.00 45.32      A16S
ATOM  14488  O4* A   A 695     216.183 104.804 -44.738  1.00 45.32      A16S
ATOM  14489  C1* A   A 695     215.548 103.532 -44.639  1.00 45.32      A16S
ATOM  14490  N9  A   A 695     214.171 103.655 -45.134  1.00 26.92      A16S
ATOM  14491  C4  A   A 695     213.163 102.719 -45.047  1.00 26.92      A16S
ATOM  14492  N3  A   A 695     213.214 101.500 -44.480  1.00 26.92      A16S
ATOM  14493  C2  A   A 695     212.045 100.876 -44.606  1.00 26.92      A16S
ATOM  14494  N1  A   A 695     210.921 101.302 -45.185  1.00 26.92      A16S
ATOM  14495  C6  A   A 695     210.907 102.541 -45.728  1.00 26.92      A16S
ATOM  14496  N6  A   A 695     209.790 102.995 -46.284  1.00 26.92      A16S
ATOM  14497  C5  A   A 695     212.067 103.291 -45.671  1.00 26.92      A16S
ATOM  14498  N7  A   A 695     212.364 104.563 -46.131  1.00 26.92      A16S
ATOM  14499  C8  A   A 695     213.618 104.734 -45.790  1.00 26.92      A16S
ATOM  14500  C2* A   A 695     216.378 102.534 -45.446  1.00 45.32      A16S
ATOM  14501  O2* A   A 695     217.283 101.862 -44.597  1.00 45.32      A16S
ATOM  14502  C3* A   A 695     217.083 103.451 -46.432  1.00 45.32      A16S
ATOM  14503  O3* A   A 695     218.310 102.911 -46.886  1.00 45.32      A16S
ATOM  14504  P   A   A 696     218.510 102.590 -48.448  1.00 36.27      A16S
ATOM  14505  O1P A   A 696     219.975 102.600 -48.658  1.00 29.71      A16S
ATOM  14506  O2P A   A 696     217.645 103.488 -49.282  1.00 29.71      A16S
ATOM  14507  O5* A   A 696     218.008 101.085 -48.586  1.00 36.27      A16S
ATOM  14508  C5* A   A 696     218.574 100.068 -47.762  1.00 36.27      A16S
ATOM  14509  C4* A   A 696     217.523  99.080 -47.347  1.00 36.27      A16S
ATOM  14510  O4* A   A 696     216.444  99.783 -46.694  1.00 36.27      A16S
ATOM  14511  C1* A   A 696     215.209  99.146 -46.981  1.00 36.27      A16S
ATOM  14512  N9  A   A 696     214.354 100.115 -47.670  1.00 29.71      A16S
ATOM  14513  C4  A   A 696     213.009 100.011 -47.913  1.00 29.71      A16S
ATOM  14514  N3  A   A 696     212.198  98.994 -47.590  1.00 29.71      A16S
ATOM  14515  C2  A   A 696     210.957  99.247 -47.979  1.00 29.71      A16S
ATOM  14516  N1  A   A 696     210.469 100.323 -48.597  1.00 29.71      A16S
ATOM  14517  C6  A   A 696     211.310 101.336 -48.890  1.00 29.71      A16S
ATOM  14518  N6  A   A 696     210.820 102.434 -49.471  1.00 29.71      A16S
ATOM  14519  C5  A   A 696     212.652 101.182 -48.551  1.00 29.71      A16S
ATOM  14520  N7  A   A 696     213.751 102.006 -48.722  1.00 29.71      A16S
ATOM  14521  C8  A   A 696     214.733 101.329 -48.188  1.00 29.71      A16S
ATOM  14522  C2* A   A 696     215.522  97.902 -47.808  1.00 36.27      A16S
ATOM  14523  O2* A   A 696     215.683  96.798 -46.934  1.00 36.27      A16S
ATOM  14524  C3* A   A 696     216.842  98.297 -48.454  1.00 36.27      A16S
ATOM  14525  O3* A   A 696     217.606  97.167 -48.831  1.00 36.27      A16S
ATOM  14526  P   U   A 697     217.675  96.747 -50.378  1.00 42.71      A16S
ATOM  14527  O1P U   A 697     218.773  95.754 -50.481  1.00 33.09      A16S
ATOM  14528  O2P U   A 697     217.692  97.971 -51.248  1.00 33.09      A16S
ATOM  14529  O5* U   A 697     216.302  95.978 -50.605  1.00 42.71      A16S
ATOM  14530  C5* U   A 697     215.968  94.856 -49.794  1.00 42.71      A16S
ATOM  14531  C4* U   A 697     214.492  94.580 -49.852  1.00 42.71      A16S
ATOM  14532  O4* U   A 697     213.745  95.697 -49.319  1.00 42.71      A16S
ATOM  14533  C1* U   A 697     212.466  95.737 -49.916  1.00 42.71      A16S
ATOM  14534  N1  U   A 697     212.262  97.040 -50.561  1.00 33.09      A16S
ATOM  14535  C6  U   A 697     213.306  97.787 -51.044  1.00 33.09      A16S
ATOM  14536  C2  U   A 697     210.966  97.492 -50.669  1.00 33.09      A16S
ATOM  14537  O2  U   A 697     210.016  96.865 -50.243  1.00 33.09      A16S
ATOM  14538  N3  U   A 697     210.819  98.708 -51.288  1.00 33.09      A16S
ATOM  14539  C4  U   A 697     211.818  99.509 -51.793  1.00 33.09      A16S
ATOM  14540  O4  U   A 697     211.528 100.581 -52.336  1.00 33.09      A16S
ATOM  14541  C5  U   A 697     213.133  98.978 -51.638  1.00 33.09      A16S
ATOM  14542  C2* U   A 697     212.406  94.603 -50.926  1.00 42.71      A16S
ATOM  14543  O2* U   A 697     211.816  93.487 -50.287  1.00 42.71      A16S
ATOM  14544  C3* U   A 697     213.880  94.379 -51.217  1.00 42.71      A16S
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ATOM  14545  O3* U   A 697     214.115  93.081 -51.709  1.00 42.71      A16S
ATOM  14546  P   G   A 698     214.574  92.891 -53.240  1.00 47.35      A16S
ATOM  14547  O1P G   A 698     214.437  91.427 -53.489  1.00 32.93      A16S
ATOM  14548  O2P G   A 698     215.887  93.576 -53.460  1.00 32.93      A16S
ATOM  14549  O5* G   A 698     213.501  93.681 -54.111  1.00 47.35      A16S
ATOM  14550  C5* G   A 698     212.133  93.291 -54.130  1.00 47.35      A16S
ATOM  14551  C4* G   A 698     211.328  94.331 -54.847  1.00 47.35      A16S
ATOM  14552  O4* G   A 698     211.462  95.597 -54.164  1.00 47.35      A16S
ATOM  14553  C1* G   A 698     211.475  96.653 -55.106  1.00 47.35      A16S
ATOM  14554  N9  G   A 698     212.730  97.379 -54.961  1.00 32.93      A16S
ATOM  14555  C4  G   A 698     213.026  98.620 -55.470  1.00 32.93      A16S
ATOM  14556  N3  G   A 698     212.214  99.383 -56.212  1.00 32.93      A16S
ATOM  14557  C2  G   A 698     212.775 100.530 -56.533  1.00 32.93      A16S
ATOM  14558  N2  G   A 698     212.100 101.425 -57.252  1.00 32.93      A16S
ATOM  14559  N1  G   A 698     214.031 100.891 -56.168  1.00 32.93      A16S
ATOM  14560  C6  G   A 698     214.886 100.122 -55.400  1.00 32.93      A16S
ATOM  14561  O6  G   A 698     216.005 100.550 -55.112  1.00 32.93      A16S
ATOM  14562  C5  G   A 698     214.301  98.896 -55.044  1.00 32.93      A16S
ATOM  14563  N7  G   A 698     214.810  97.847 -54.294  1.00 32.93      A16S
ATOM  14564  C8  G   A 698     213.846  96.968 -54.276  1.00 32.93      A16S
ATOM  14565  C2* G   A 698     211.305  96.037 -56.489  1.00 47.35      A16S
ATOM  14566  O2* G   A 698     209.935  96.065 -56.835  1.00 47.35      A16S
ATOM  14567  C3* G   A 698     211.803  94.623 -56.252  1.00 47.35      A16S
ATOM  14568  O3* G   A 698     211.265  93.697 -57.174  1.00 47.35      A16S
ATOM  14569  P   C   A 699     212.185  93.157 -58.367  1.00 28.76      A16S
ATOM  14570  O1P C   A 699     211.458  92.004 -58.982  1.00 38.64      A16S
ATOM  14571  O2P C   A 699     213.551  92.943 -57.800  1.00 38.64      A16S
ATOM  14572  O5* C   A 699     212.215  94.399 -59.363  1.00 28.76      A16S
ATOM  14573  C5* C   A 699     211.040  94.739 -60.078  1.00 28.76      A16S
ATOM  14574  C4* C   A 699     211.168  96.087 -60.718  1.00 28.76      A16S
ATOM  14575  O4* C   A 699     211.383  97.086 -59.699  1.00 28.76      A16S
ATOM  14576  C1* C   A 699     212.083  98.189 -60.247  1.00 28.76      A16S
ATOM  14577  N1  C   A 699     213.329  98.378 -59.495  1.00 38.64      A16S
ATOM  14578  C6  C   A 699     213.838  97.386 -58.701  1.00 38.64      A16S
ATOM  14579  C2  C   A 699     214.006  99.589 -59.632  1.00 38.64      A16S
ATOM  14580  O2  C   A 699     213.486 100.489 -60.321  1.00 38.64      A16S
ATOM  14581  N3  C   A 699     215.201  99.751 -59.011  1.00 38.64      A16S
ATOM  14582  C4  C   A 699     215.704  98.761 -58.268  1.00 38.64      A16S
ATOM  14583  N4  C   A 699     216.892  98.945 -57.703  1.00 38.64      A16S
ATOM  14584  C5  C   A 699     215.011  97.535 -58.079  1.00 38.64      A16S
ATOM  14585  C2* C   A 699     212.394  97.849 -61.702  1.00 28.76      A16S
ATOM  14586  O2* C   A 699     211.456  98.483 -62.562  1.00 28.76      A16S
ATOM  14587  C3* C   A 699     212.314  96.325 -61.675  1.00 28.76      A16S
ATOM  14588  O3* C   A 699     212.115  95.755 -62.952  1.00 28.76      A16S
ATOM  14589  P   G   A 700     213.360  95.071 -63.691  1.00 46.73      A16S
ATOM  14590  O1P G   A 700     212.819  94.457 -64.933  1.00 43.60      A16S
ATOM  14591  O2P G   A 700     214.081  94.227 -62.707  1.00 43.60      A16S
ATOM  14592  O5* G   A 700     214.291  96.308 -64.060  1.00 46.73      A16S
ATOM  14593  C5* G   A 700     213.844  97.262 -65.025  1.00 46.73      A16S
ATOM  14594  C4* G   A 700     214.880  98.330 -65.249  1.00 46.73      A16S
ATOM  14595  O4* G   A 700     214.982  99.176 -64.083  1.00 46.73      A16S
ATOM  14596  C1* G   A 700     216.297  99.684 -63.979  1.00 46.73      A16S
ATOM  14597  N9  G   A 700     216.873  99.206 -62.731  1.00 43.60      A16S
ATOM  14598  C4  G   A 700     217.974  99.727 -62.111  1.00 43.60      A16S
ATOM  14599  N3  G   A 700     218.693 100.776 -62.546  1.00 43.60      A16S
ATOM  14600  C2  G   A 700     219.716 101.028 -61.763  1.00 43.60      A16S
ATOM  14601  N2  G   A 700     220.547 102.031 -62.066  1.00 43.60      A16S
ATOM  14602  N1  G   A 700     220.005 100.311 -60.633  1.00 43.60      A16S
ATOM  14603  C6  G   A 700     219.278  99.220 -60.173  1.00 43.60      A16S
ATOM  14604  O6  G   A 700     219.638  98.625 -59.155  1.00 43.60      A16S
ATOM  14605  C5  G   A 700     218.180  98.941 -61.005  1.00 43.60      A16S
ATOM  14606  N7  G   A 700     217.217  97.948 -60.918  1.00 43.60      A16S
ATOM  14607  C8  G   A 700     216.458  98.146 -61.962  1.00 43.60      A16S
ATOM  14608  C2* G   A 700     217.090  99.154 -65.170  1.00 46.73      A16S
ATOM  14609  O2* G   A 700     217.078 100.116 -66.210  1.00 46.73      A16S
ATOM  14610  C3* G   A 700     216.308  97.893 -65.505  1.00 46.73      A16S
ATOM  14611  O3* G   A 700     216.509  97.456 -66.832  1.00 46.73      A16S
ATOM  14612  P   C   A 701     217.197  96.030 -67.084  1.00 42.77      A16S
ATOM  14613  O1P C   A 701     216.519  95.445 -68.266  1.00 48.77      A16S
ATOM  14614  O2P C   A 701     217.270  95.250 -65.817  1.00 48.77      A16S
ATOM  14615  O5* C   A 701     218.693  96.389 -67.467  1.00 42.77      A16S
ATOM  14616  C5* C   A 701     219.086  97.727 -67.797  1.00 42.77      A16S
ATOM  14617  C4* C   A 701     220.088  97.688 -68.918  1.00 42.77      A16S
ATOM  14618  O4* C   A 701     220.804  98.949 -68.969  1.00 42.77      A16S
ATOM  14619  C1* C   A 701     222.181  98.706 -68.840  1.00 42.77      A16S
ATOM  14620  N1  C   A 701     222.815  99.829 -68.142  1.00 48.77      A16S
ATOM  14621  C6  C   A 701     222.155 100.554 -67.194  1.00 48.77      A16S
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ATOM  14622  C2  C   A 701     224.123 100.147 -68.482  1.00 48.77      A16S
ATOM  14623  O2  C   A 701     224.710  99.449 -69.333  1.00 48.77      A16S
ATOM  14624  N3  C   A 701     224.728 101.195 -67.884  1.00 48.77      A16S
ATOM  14625  C4  C   A 701     224.075 101.906 -66.973  1.00 48.77      A16S
ATOM  14626  N4  C   A 701     224.711 102.944 -66.425  1.00 48.77      A16S
ATOM  14627  C5  C   A 701     222.743 101.590 -66.588  1.00 48.77      A16S
ATOM  14628  C2* C   A 701     222.315  97.357 -68.145  1.00 42.77      A16S
ATOM  14629  O2* C   A 701     223.551  96.751 -68.448  1.00 42.77      A16S
ATOM  14630  C3* C   A 701     221.143  96.604 -68.749  1.00 42.77      A16S
ATOM  14631  O3* C   A 701     221.504  96.122 -70.037  1.00 42.77      A16S
ATOM  14632  P   A   A 702     221.769  94.553 -70.266  1.00 43.13      A16S
ATOM  14633  O1P A   A 702     221.949  93.879 -68.954  1.00 99.30      A16S
ATOM  14634  O2P A   A 702     222.836  94.445 -71.294  1.00 99.30      A16S
ATOM  14635  O5* A   A 702     220.405  94.045 -70.903  1.00 43.13      A16S
ATOM  14636  C5* A   A 702     220.047  94.446 -72.226  1.00 43.13      A16S
ATOM  14637  C4* A   A 702     218.597  94.138 -72.505  1.00 43.13      A16S
ATOM  14638  O4* A   A 702     218.362  92.708 -72.436  1.00 43.13      A16S
ATOM  14639  C1* A   A 702     217.226  92.452 -71.652  1.00 43.13      A16S
ATOM  14640  N9  A   A 702     217.430  91.182 -70.966  1.00 99.30      A16S
ATOM  14641  C4  A   A 702     216.719  90.032 -71.194  1.00 99.30      A16S
ATOM  14642  N3  A   A 702     215.720  89.854 -72.074  1.00 99.30      A16S
ATOM  14643  C2  A   A 702     215.258  88.609 -72.011  1.00 99.30      A16S
ATOM  14644  N1  A   A 702     215.656  87.597 -71.230  1.00 99.30      A16S
ATOM  14645  C6  A   A 702     216.668  87.813 -70.362  1.00 99.30      A16S
ATOM  14646  N6  A   A 702     217.072  86.807 -69.586  1.00 99.30      A16S
ATOM  14647  C5  A   A 702     217.239  89.091 -70.329  1.00 99.30      A16S
ATOM  14648  N7  A   A 702     218.265  89.633 -69.574  1.00 99.30      A16S
ATOM  14649  C8  A   A 702     218.339  90.872 -69.990  1.00 99.30      A16S
ATOM  14650  C2* A   A 702     217.061  93.662 -70.738  1.00 43.13      A16S
ATOM  14651  O2* A   A 702     215.703  93.804 -70.376  1.00 43.13      A16S
ATOM  14652  C3* A   A 702     217.541  94.799 -71.634  1.00 43.13      A16S
ATOM  14653  O3* A   A 702     216.492  95.207 -72.493  1.00 43.13      A16S
ATOM  14654  P   G   A 703     215.718  96.583 -72.216  1.00 44.51      A16S
ATOM  14655  O1P G   A 703     214.450  96.207 -71.522  1.00 62.69      A16S
ATOM  14656  O2P G   A 703     215.663  97.332 -73.494  1.00 62.69      A16S
ATOM  14657  O5* G   A 703     216.653  97.412 -71.221  1.00 44.51      A16S
ATOM  14658  C5* G   A 703     216.125  97.979 -69.993  1.00 44.51      A16S
ATOM  14659  C4* G   A 703     216.398  99.468 -69.930  1.00 44.51      A16S
ATOM  14660  O4* G   A 703     217.831  99.674 -69.890  1.00 44.51      A16S
ATOM  14661  C1* G   A 703     218.227 100.525 -70.943  1.00 44.51      A16S
ATOM  14662  N9  G   A 703     219.494 100.024 -71.467  1.00 62.69      A16S
ATOM  14663  C4  G   A 703     220.716 100.660 -71.428  1.00 62.69      A16S
ATOM  14664  N3  G   A 703     220.964 101.881 -70.905  1.00 62.69      A16S
ATOM  14665  C2  G   A 703     222.243 102.214 -71.006  1.00 62.69      A16S
ATOM  14666  N2  G   A 703     222.668 103.397 -70.542  1.00 62.69      A16S
ATOM  14667  N1  G   A 703     223.201 101.413 -71.571  1.00 62.69      A16S
ATOM  14668  C6  G   A 703     222.973 100.152 -72.118  1.00 62.69      A16S
ATOM  14669  O6  G   A 703     223.918  99.505 -72.607  1.00 62.69      A16S
ATOM  14670  C5  G   A 703     221.603  99.782 -72.019  1.00 62.69      A16S
ATOM  14671  N7  G   A 703     220.954  98.626 -72.429  1.00 62.69      A16S
ATOM  14672  C8  G   A 703     219.709  98.815 -72.087  1.00 62.69      A16S
ATOM  14673  C2* G   A 703     217.094 100.503 -71.967  1.00 44.51      A16S
ATOM  14674  O2* G   A 703     217.033 101.731 -72.652  1.00 44.51      A16S
ATOM  14675  C3* G   A 703     215.864 100.307 -71.090  1.00 44.51      A16S
ATOM  14676  O3* G   A 703     215.426 101.593 -70.633  1.00 44.51      A16S
ATOM  14677  P   A   A 704     214.011 102.198 -71.125  1.00 43.61      A16S
ATOM  14678  O1P A   A 704     213.367 101.226 -72.037  1.00 53.27      A16S
ATOM  14679  O2P A   A 704     214.182 103.604 -71.562  1.00 53.27      A16S
ATOM  14680  O5* A   A 704     213.156 102.236 -69.788  1.00 43.61      A16S
ATOM  14681  C5* A   A 704     212.618 101.028 -69.241  1.00 43.61      A16S
ATOM  14682  C4* A   A 704     212.666 101.065 -67.740  1.00 43.61      A16S
ATOM  14683  O4* A   A 704     214.048 101.045 -67.293  1.00 43.61      A16S
ATOM  14684  C1* A   A 704     214.175 101.794 -66.096  1.00 43.61      A16S
ATOM  14685  N9  A   A 704     215.046 102.933 -66.357  1.00 53.27      A16S
ATOM  14686  C4  A   A 704     215.484 103.827 -65.414  1.00 53.27      A16S
ATOM  14687  N3  A   A 704     215.231 103.805 -64.097  1.00 53.27      A16S
ATOM  14688  C2  A   A 704     215.798 104.843 -63.500  1.00 53.27      A16S
ATOM  14689  N1  A   A 704     216.531 105.826 -64.027  1.00 53.27      A16S
ATOM  14690  C6  A   A 704     216.766 105.817 -65.352  1.00 53.27      A16S
ATOM  14691  N6  A   A 704     217.494 106.797 -65.874  1.00 53.27      A16S
ATOM  14692  C5  A   A 704     216.224 104.770 -66.101  1.00 53.27      A16S
ATOM  14693  N7  A   A 704     216.272 104.467 -67.454  1.00 53.27      A16S
ATOM  14694  C8  A   A 704     215.564 103.367 -67.552  1.00 53.27      A16S
ATOM  14695  C2* A   A 704     212.781 102.296 -65.721  1.00 43.61      A16S
ATOM  14696  O2* A   A 704     212.204 101.431 -64.746  1.00 43.61      A16S
ATOM  14697  C3* A   A 704     212.089 102.303 -67.084  1.00 43.61      A16S
ATOM  14698  O3* A   A 704     210.671 102.295 -67.026  1.00 43.61      A16S
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ATOM  14699  P    U   A 705     209.861 103.619 -67.452  1.00 37.52      A16S
ATOM  14700  O1P  U   A 705     208.426 103.368 -67.134  1.00 51.77      A16S
ATOM  14701  O2P  U   A 705     210.252 104.000 -68.832  1.00 51.77      A16S
ATOM  14702  O5*  U   A 705     210.398 104.761 -66.477  1.00 37.52      A16S
ATOM  14703  C5*  U   A 705     210.054 104.746 -65.084  1.00 37.52      A16S
ATOM  14704  C4*  U   A 705     210.714 105.888 -64.346  1.00 37.52      A16S
ATOM  14705  O4*  U   A 705     212.156 105.773 -64.427  1.00 37.52      A16S
ATOM  14706  C1*  U   A 705     212.734 107.067 -64.390  1.00 37.52      A16S
ATOM  14707  N1   U   A 705     213.516 107.287 -65.621  1.00 51.77      A16S
ATOM  14708  C6   U   A 705     213.437 106.431 -66.696  1.00 51.77      A16S
ATOM  14709  C2   U   A 705     214.319 108.411 -65.675  1.00 51.77      A16S
ATOM  14710  O2   U   A 705     214.469 109.160 -64.740  1.00 51.77      A16S
ATOM  14711  N3   U   A 705     214.948 108.620 -66.870  1.00 51.77      A16S
ATOM  14712  C4   U   A 705     214.884 107.831 -67.991  1.00 51.77      A16S
ATOM  14713  O4   U   A 705     215.433 108.213 -69.029  1.00 51.77      A16S
ATOM  14714  C5   U   A 705     214.079 106.657 -67.846  1.00 51.77      A16S
ATOM  14715  C2*  U   A 705     211.591 108.078 -64.243  1.00 37.52      A16S
ATOM  14716  O2*  U   A 705     211.403 108.362 -62.867  1.00 37.52      A16S
ATOM  14717  C3*  U   A 705     210.409 107.305 -64.812  1.00 37.52      A16S
ATOM  14718  O3*  U   A 705     209.186 107.786 -64.252  1.00 37.52      A16S
ATOM  14719  P    A   A 706     208.127 108.573 -65.175  1.00 36.80      A16S
ATOM  14720  O1P  A   A 706     207.072 109.049 -64.255  1.00 58.82      A16S
ATOM  14721  O2P  A   A 706     207.761 107.736 -66.343  1.00 58.82      A16S
ATOM  14722  O5*  A   A 706     208.905 109.862 -65.674  1.00 36.80      A16S
ATOM  14723  C5*  A   A 706     209.178 110.934 -64.775  1.00 36.80      A16S
ATOM  14724  C4*  A   A 706     210.082 111.937 -65.432  1.00 36.80      A16S
ATOM  14725  O4*  A   A 706     211.371 111.323 -65.676  1.00 36.80      A16S
ATOM  14726  C1*  A   A 706     211.908 111.808 -66.900  1.00 36.80      A16S
ATOM  14727  N9   A   A 706     211.994 110.695 -67.846  1.00 58.82      A16S
ATOM  14728  C4   A   A 706     212.809 110.655 -68.944  1.00 58.82      A16S
ATOM  14729  N3   A   A 706     213.685 111.591 -69.333  1.00 58.82      A16S
ATOM  14730  C2   A   A 706     214.282 111.221 -70.450  1.00 58.82      A16S
ATOM  14731  N1   A   A 706     214.117 110.104 -71.167  1.00 58.82      A16S
ATOM  14732  C6   A   A 706     213.230 109.186 -70.737  1.00 58.82      A16S
ATOM  14733  N6   A   A 706     213.067 108.067 -71.441  1.00 58.82      A16S
ATOM  14734  C5   A   A 706     212.533 109.461 -69.572  1.00 58.82      A16S
ATOM  14735  N7   A   A 706     211.570 108.749 -68.881  1.00 58.82      A16S
ATOM  14736  C8   A   A 706     211.289 109.518 -67.863  1.00 58.82      A16S
ATOM  14737  C2*  A   A 706     210.945 112.859 -67.438  1.00 36.80      A16S
ATOM  14738  O2*  A   A 706     211.354 114.131 -66.987  1.00 36.80      A16S
ATOM  14739  C3*  A   A 706     209.643 112.398 -66.810  1.00 36.80      A16S
ATOM  14740  O3*  A   A 706     208.642 113.387 -66.783  1.00 36.80      A16S
ATOM  14741  P    C   A 707     207.360 113.192 -67.709  1.00 38.53      A16S
ATOM  14742  O1P  C   A 707     206.403 114.272 -67.383  1.00 44.88      A16S
ATOM  14743  O2P  C   A 707     206.949 111.765 -67.582  1.00 44.88      A16S
ATOM  14744  O5*  C   A 707     207.931 113.423 -69.176  1.00 38.53      A16S
ATOM  14745  C5*  C   A 707     208.482 114.697 -69.555  1.00 38.53      A16S
ATOM  14746  C4*  C   A 707     208.817 114.713 -71.029  1.00 38.53      A16S
ATOM  14747  O4*  C   A 707     209.967 113.870 -71.297  1.00 38.53      A16S
ATOM  14748  C1*  C   A 707     209.859 113.319 -72.598  1.00 38.53      A16S
ATOM  14749  N1   C   A 707     209.926 111.853 -72.506  1.00 44.88      A16S
ATOM  14750  C6   C   A 707     209.946 111.219 -71.296  1.00 44.88      A16S
ATOM  14751  C2   C   A 707     209.947 111.111 -73.690  1.00 44.88      A16S
ATOM  14752  O2   C   A 707     209.975 111.711 -74.776  1.00 44.88      A16S
ATOM  14753  N3   C   A 707     209.944 109.763 -73.625  1.00 44.88      A16S
ATOM  14754  C4   C   A 707     209.938 109.155 -72.440  1.00 44.88      A16S
ATOM  14755  N4   C   A 707     209.912 107.822 -72.423  1.00 44.88      A16S
ATOM  14756  C5   C   A 707     209.952 109.885 -71.219  1.00 44.88      A16S
ATOM  14757  C2*  C   A 707     208.531 113.786 -73.199  1.00 38.53      A16S
ATOM  14758  O2*  C   A 707     208.729 114.856 -74.099  1.00 38.53      A16S
ATOM  14759  C3*  C   A 707     207.746 114.182 -71.958  1.00 38.53      A16S
ATOM  14760  O3*  C   A 707     206.762 115.143 -72.255  1.00 38.53      A16S
ATOM  14761  P    C   A 708     205.337 114.655 -72.797  1.00 51.50      A16S
ATOM  14762  O1P  C   A 708     204.426 115.828 -72.740  1.00 41.76      A16S
ATOM  14763  O2P  C   A 708     204.963 113.406 -72.092  1.00 41.76      A16S
ATOM  14764  O5*  C   A 708     205.625 114.277 -74.316  1.00 51.50      A16S
ATOM  14765  C5*  C   A 708     206.066 115.275 -75.253  1.00 51.50      A16S
ATOM  14766  C4*  C   A 708     206.249 114.665 -76.622  1.00 51.50      A16S
ATOM  14767  O4*  C   A 708     207.346 113.720 -76.591  1.00 51.50      A16S
ATOM  14768  C1*  C   A 708     207.077 112.655 -77.489  1.00 51.50      A16S
ATOM  14769  N1   C   A 708     207.058 111.386 -76.755  1.00 41.76      A16S
ATOM  14770  C6   C   A 708     206.879 111.342 -75.405  1.00 41.76      A16S
ATOM  14771  C2   C   A 708     207.223 110.217 -77.478  1.00 41.76      A16S
ATOM  14772  O2   C   A 708     207.389 110.296 -78.709  1.00 41.76      A16S
ATOM  14773  N3   C   A 708     207.200 109.035 -76.834  1.00 41.76      A16S
ATOM  14774  C4   C   A 708     207.026 109.003 -75.520  1.00 41.76      A16S
ATOM  14775  N4   C   A 708     207.007 107.819 -74.926  1.00 41.76      A16S
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ATOM  14776  C5  C   A 708     206.860 110.182 -74.755  1.00 41.76      A16S
ATOM  14777  C2* C   A 708     205.731 112.909 -78.146  1.00 51.50      A16S
ATOM  14778  O2* C   A 708     205.966 113.461 -79.419  1.00 51.50      A16S
ATOM  14779  C3* C   A 708     205.079 113.849 -77.143  1.00 51.50      A16S
ATOM  14780  O3* C   A 708     204.068 114.645 -77.724  1.00 51.50      A16S
ATOM  14781  P   G   A 709     202.556 114.106 -77.716  1.00 74.65      A16S
ATOM  14782  O1P G   A 709     201.708 115.211 -78.232  1.00 60.08      A16S
ATOM  14783  O2P G   A 709     202.270 113.514 -76.378  1.00 60.08      A16S
ATOM  14784  O5* G   A 709     202.570 112.915 -78.771  1.00 74.65      A16S
ATOM  14785  C5* G   A 709     202.972 113.155 -80.122  1.00 74.65      A16S
ATOM  14786  C4* G   A 709     202.983 111.873 -80.910  1.00 74.65      A16S
ATOM  14787  O4* G   A 709     204.119 111.048 -80.553  1.00 74.65      A16S
ATOM  14788  C1* G   A 709     203.786 109.685 -80.753  1.00 74.65      A16S
ATOM  14789  N9  G   A 709     203.931 108.952 -79.504  1.00 60.08      A16S
ATOM  14790  C4  G   A 709     204.041 107.597 -79.399  1.00 60.08      A16S
ATOM  14791  N3  G   A 709     204.095 106.736 -80.429  1.00 60.08      A16S
ATOM  14792  C2  G   A 709     204.186 105.489 -80.023  1.00 60.08      A16S
ATOM  14793  N2  G   A 709     204.293 104.512 -80.925  1.00 60.08      A16S
ATOM  14794  N1  G   A 709     204.192 105.113 -78.706  1.00 60.08      A16S
ATOM  14795  C6  G   A 709     204.130 105.986 -77.627  1.00 60.08      A16S
ATOM  14796  O6  G   A 709     204.135 105.544 -76.474  1.00 60.08      A16S
ATOM  14797  C5  G   A 709     204.060 107.332 -78.053  1.00 60.08      A16S
ATOM  14798  N7  G   A 709     203.999 108.506 -77.320  1.00 60.08      A16S
ATOM  14799  C8  G   A 709     203.932 109.443 -78.224  1.00 60.08      A16S
ATOM  14800  C2* G   A 709     202.327 109.621 -81.196  1.00 74.65      A16S
ATOM  14801  O2* G   A 709     202.252 109.477 -82.596  1.00 74.65      A16S
ATOM  14802  C3* G   A 709     201.799 110.958 -80.705  1.00 74.65      A16S
ATOM  14803  O3* G   A 709     200.667 111.363 -81.428  1.00 74.65      A16S
ATOM  14804  P   G   A 710     199.226 110.848 -80.964  1.00 65.49      A16S
ATOM  14805  O1P G   A 710     198.274 111.491 -81.914  1.00 59.80      A16S
ATOM  14806  O2P G   A 710     199.069 111.073 -79.498  1.00 59.80      A16S
ATOM  14807  O5* G   A 710     199.275 109.276 -81.248  1.00 65.49      A16S
ATOM  14808  C5* G   A 710     199.260 108.792 -82.600  1.00 65.49      A16S
ATOM  14809  C4* G   A 710     199.345 107.283 -82.648  1.00 65.49      A16S
ATOM  14810  O4* G   A 710     200.603 106.838 -82.082  1.00 65.49      A16S
ATOM  14811  C1* G   A 710     200.440 105.543 -81.526  1.00 65.49      A16S
ATOM  14812  N9  G   A 710     200.735 105.599 -80.098  1.00 59.80      A16S
ATOM  14813  C4  G   A 710     200.875 104.519 -79.272  1.00 59.80      A16S
ATOM  14814  N3  G   A 710     200.814 103.231 -79.649  1.00 59.80      A16S
ATOM  14815  C2  G   A 710     200.974 102.418 -78.632  1.00 59.80      A16S
ATOM  14816  N2  G   A 710     200.974 101.100 -78.836  1.00 59.80      A16S
ATOM  14817  N1  G   A 710     201.156 102.836 -77.343  1.00 59.80      A16S
ATOM  14818  C6  G   A 710     201.213 104.160 -76.936  1.00 59.80      A16S
ATOM  14819  O6  G   A 710     201.369 104.432 -75.746  1.00 59.80      A16S
ATOM  14820  C5  G   A 710     201.067 105.039 -78.016  1.00 59.80      A16S
ATOM  14821  N7  G   A 710     201.081 106.422 -78.052  1.00 59.80      A16S
ATOM  14822  C8  G   A 710     200.887 106.712 -79.308  1.00 59.80      A16S
ATOM  14823  C2* G   A 710     198.988 105.122 -81.751  1.00 65.49      A16S
ATOM  14824  O2* G   A 710     198.908 104.311 -82.903  1.00 65.49      A16S
ATOM  14825  C3* G   A 710     198.297 106.472 -81.904  1.00 65.49      A16S
ATOM  14826  O3* G   A 710     197.059 106.363 -82.598  1.00 65.49      A16S
ATOM  14827  P   G   A 711     195.690 106.249 -81.756  1.00 52.86      A16S
ATOM  14828  O1P G   A 711     194.545 106.305 -82.710  1.00 41.43      A16S
ATOM  14829  O2P G   A 711     195.748 107.234 -80.633  1.00 41.43      A16S
ATOM  14830  O5* G   A 711     195.756 104.768 -81.168  1.00 52.86      A16S
ATOM  14831  C5* G   A 711     195.861 103.662 -82.063  1.00 52.86      A16S
ATOM  14832  C4* G   A 711     196.218 102.399 -81.328  1.00 52.86      A16S
ATOM  14833  O4* G   A 711     197.436 102.592 -80.574  1.00 52.86      A16S
ATOM  14834  C1* G   A 711     197.494 101.643 -79.526  1.00 52.86      A16S
ATOM  14835  N9  G   A 711     197.710 102.325 -78.256  1.00 41.43      A16S
ATOM  14836  C4  G   A 711     197.967 101.704 -77.065  1.00 41.43      A16S
ATOM  14837  N3  G   A 711     198.073 100.371 -76.879  1.00 41.43      A16S
ATOM  14838  C2  G   A 711     198.318 100.067 -75.618  1.00 41.43      A16S
ATOM  14839  N2  G   A 711     198.453  98.784 -75.253  1.00 41.43      A16S
ATOM  14840  N1  G   A 711     198.448 100.996 -74.619  1.00 41.43      A16S
ATOM  14841  C6  G   A 711     198.337 102.375 -74.787  1.00 41.43      A16S
ATOM  14842  O6  G   A 711     198.462 103.128 -73.813  1.00 41.43      A16S
ATOM  14843  C5  G   A 711     198.077 102.716 -76.140  1.00 41.43      A16S
ATOM  14844  N7  G   A 711     197.899 103.955 -76.741  1.00 41.43      A16S
ATOM  14845  C8  G   A 711     197.685 103.674 -77.996  1.00 41.43      A16S
ATOM  14846  C2* G   A 711     196.168 100.896 -79.517  1.00 52.86      A16S
ATOM  14847  O2* G   A 711     196.361  99.662 -80.175  1.00 52.86      A16S
ATOM  14848  C3* G   A 711     195.270 101.861 -80.280  1.00 52.86      A16S
ATOM  14849  O3* G   A 711     194.162 101.192 -80.839  1.00 52.86      A16S
ATOM  14850  P   A   A 712     192.726 101.312 -80.120  1.00 35.55      A16S
ATOM  14851  O1P A   A 712     191.703 100.904 -81.131  1.00 48.86      A16S
ATOM  14852  O2P A   A 712     192.621 102.658 -79.467  1.00 48.86      A16S
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ATOM  14853  O5* A   A 712     192.781 100.194 -78.992  1.00 35.55      A16S
ATOM  14854  C5* A   A 712     192.996  98.843 -79.353  1.00 35.55      A16S
ATOM  14855  C4* A   A 712     193.430  98.062 -78.159  1.00 35.55      A16S
ATOM  14856  O4* A   A 712     194.639  98.649 -77.624  1.00 35.55      A16S
ATOM  14857  C1* A   A 712     194.651  98.527 -76.213  1.00 35.55      A16S
ATOM  14858  N9   A   A 712     194.739  99.866 -75.628  1.00 48.86      A16S
ATOM  14859  C4   A   A 712     195.140 100.150 -74.347  1.00 48.86      A16S
ATOM  14860  N3   A   A 712     195.519  99.276 -73.398  1.00 48.86      A16S
ATOM  14861  C2   A   A 712     195.829  99.916 -72.274  1.00 48.86      A16S
ATOM  14862  N1   A   A 712     195.808 101.229 -72.012  1.00 48.86      A16S
ATOM  14863  C6   A   A 712     195.425 102.075 -72.991  1.00 48.86      A16S
ATOM  14864  N6   A   A 712     195.406 103.382 -72.738  1.00 48.86      A16S
ATOM  14865  C5   A   A 712     195.067 101.526 -74.225  1.00 48.86      A16S
ATOM  14866  N7   A   A 712     194.628 102.103 -75.406  1.00 48.86      A16S
ATOM  14867  C8   A   A 712     194.447 101.079 -76.205  1.00 48.86      A16S
ATOM  14868  C2* A   A 712     193.375  97.795 -75.812  1.00 35.55      A16S
ATOM  14869  O2* A   A 712     193.649  96.416 -75.673  1.00 35.55      A16S
ATOM  14870  C3* A   A 712     192.472  98.103 -76.997  1.00 35.55      A16S
ATOM  14871  O3* A   A 712     191.391  97.207 -77.158  1.00 35.55      A16S
ATOM  14872  P    G   A 713     189.919  97.696 -76.740  1.00 53.84      A16S
ATOM  14873  O1P G   A 713     188.963  96.664 -77.198  1.00 50.58      A16S
ATOM  14874  O2P G   A 713     189.740  99.113 -77.168  1.00 50.58      A16S
ATOM  14875  O5* G   A 713     189.943  97.658 -75.150  1.00 53.84      A16S
ATOM  14876  C5* G   A 713     190.133  96.414 -74.476  1.00 53.84      A16S
ATOM  14877  C4* G   A 713     190.574  96.639 -73.054  1.00 53.84      A16S
ATOM  14878  O4* G   A 713     191.741  97.497 -73.020  1.00 53.84      A16S
ATOM  14879  C1* G   A 713     191.783  98.186 -71.786  1.00 53.84      A16S
ATOM  14880  N9   G   A 713     191.853  99.619 -72.041  1.00 50.58      A16S
ATOM  14881  C4   G   A 713     192.399 100.570 -71.206  1.00 50.58      A16S
ATOM  14882  N3   G   A 713     192.966 100.343 -70.003  1.00 50.58      A16S
ATOM  14883  C2   G   A 713     193.395 101.460 -69.443  1.00 50.58      A16S
ATOM  14884  N2   G   A 713     193.982 101.424 -68.240  1.00 50.58      A16S
ATOM  14885  N1   G   A 713     193.279 102.693 -70.016  1.00 50.58      A16S
ATOM  14886  C6   G   A 713     192.697 102.948 -71.251  1.00 50.58      A16S
ATOM  14887  O6   G   A 713     192.640 104.107 -71.680  1.00 50.58      A16S
ATOM  14888  C5   G   A 713     192.232 101.767 -71.862  1.00 50.58      A16S
ATOM  14889  N7   G   A 713     191.595 101.578 -73.080  1.00 50.58      A16S
ATOM  14890  C8   G   A 713     191.390 100.290 -73.143  1.00 50.58      A16S
ATOM  14891  C2* G   A 713     190.535  97.798 -71.005  1.00 53.84      A16S
ATOM  14892  O2* G   A 713     190.894  96.735 -70.149  1.00 53.84      A16S
ATOM  14893  C3* G   A 713     189.609  97.337 -72.122  1.00 53.84      A16S
ATOM  14894  O3* G   A 713     188.600  96.459 -71.660  1.00 53.84      A16S
ATOM  14895  P    G   A 714     187.103  97.016 -71.465  1.00 39.38      A16S
ATOM  14896  O1P G   A 714     186.208  95.842 -71.684  1.00 29.60      A16S
ATOM  14897  O2P G   A 714     186.900  98.255 -72.277  1.00 29.60      A16S
ATOM  14898  O5* G   A 714     187.054  97.423 -69.923  1.00 39.38      A16S
ATOM  14899  C5* G   A 714     187.106  96.412 -68.903  1.00 39.38      A16S
ATOM  14900  C4* G   A 714     187.675  96.981 -67.636  1.00 39.38      A16S
ATOM  14901  O4* G   A 714     188.912  97.647 -67.957  1.00 39.38      A16S
ATOM  14902  C1* G   A 714     189.073  98.793 -67.149  1.00 39.38      A16S
ATOM  14903  N9   G   A 714     189.083  99.958 -68.025  1.00 29.60      A16S
ATOM  14904  C4   G   A 714     189.799 101.124 -67.855  1.00 29.60      A16S
ATOM  14905  N3   G   A 714     190.647 101.401 -66.842  1.00 29.60      A16S
ATOM  14906  C2   G   A 714     191.178 102.607 -66.963  1.00 29.60      A16S
ATOM  14907  N2   G   A 714     192.031 103.052 -66.050  1.00 29.60      A16S
ATOM  14908  N1   G   A 714     190.907 103.463 -67.991  1.00 29.60      A16S
ATOM  14909  C6   G   A 714     190.040 103.195 -69.045  1.00 29.60      A16S
ATOM  14910  O6   G   A 714     189.867 104.037 -69.940  1.00 29.60      A16S
ATOM  14911  C5   G   A 714     189.458 101.917 -68.926  1.00 29.60      A16S
ATOM  14912  N7   G   A 714     188.555 101.269 -69.753  1.00 29.60      A16S
ATOM  14913  C8   G   A 714     188.364 100.112 -69.183  1.00 29.60      A16S
ATOM  14914  C2* G   A 714     187.899  98.817 -66.178  1.00 39.38      A16S
ATOM  14915  O2* G   A 714     188.282  98.118 -65.017  1.00 39.38      A16S
ATOM  14916  C3* G   A 714     186.849  98.051 -66.959  1.00 39.38      A16S
ATOM  14917  O3* G   A 714     185.887  97.476 -66.105  1.00 39.38      A16S
ATOM  14918  P    A   A 715     184.402  98.078 -66.073  1.00 39.76      A16S
ATOM  14919  O1P A   A 715     183.535  96.954 -65.652  1.00 42.22      A16S
ATOM  14920  O2P A   A 715     184.109  98.788 -67.347  1.00 42.22      A16S
ATOM  14921  O5* A   A 715     184.461  99.192 -64.940  1.00 39.76      A16S
ATOM  14922  C5* A   A 715     184.821  98.867 -63.600  1.00 39.76      A16S
ATOM  14923  C4* A   A 715     185.547 100.028 -62.974  1.00 39.76      A16S
ATOM  14924  O4* A   A 715     186.682 100.350 -63.809  1.00 39.76      A16S
ATOM  14925  C1* A   A 715     186.922 101.743 -63.776  1.00 39.76      A16S
ATOM  14926  N9   A   A 715     186.794 102.262 -65.134  1.00 42.22      A16S
ATOM  14927  C4   A   A 715     187.374 103.409 -65.604  1.00 42.22      A16S
ATOM  14928  N3   A   A 715     188.155 104.260 -64.921  1.00 42.22      A16S
ATOM  14929  C2   A   A 715     188.530 105.268 -65.698  1.00 42.22      A16S
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ATOM  14930  N1  A   A 715     188.234 105.500 -66.980  1.00 42.22      A16S
ATOM  14931  C6  A   A 715     187.450 104.618 -67.632  1.00 42.22      A16S
ATOM  14932  N6  A   A 715     187.160 104.841 -68.912  1.00 42.22      A16S
ATOM  14933  C5  A   A 715     186.987 103.514 -66.923  1.00 42.22      A16S
ATOM  14934  N7  A   A 715     186.173 102.454 -67.284  1.00 42.22      A16S
ATOM  14935  C8  A   A 715     186.090 101.739 -66.190  1.00 42.22      A16S
ATOM  14936  C2* A   A 715     185.897 102.371 -62.837  1.00 39.76      A16S
ATOM  14937  O2* A   A 715     186.440 102.485 -61.539  1.00 39.76      A16S
ATOM  14938  C3* A   A 715     184.782 101.341 -62.880  1.00 39.76      A16S
ATOM  14939  O3* A   A 715     183.975 101.427 -61.716  1.00 39.76      A16S
ATOM  14940  P   A   A 716     182.590 102.241 -61.766  1.00 33.81      A16S
ATOM  14941  O1P A   A 716     181.842 101.812 -60.547  1.00 48.45      A16S
ATOM  14942  O2P A   A 716     181.968 102.084 -63.114  1.00 48.45      A16S
ATOM  14943  O5* A   A 716     183.024 103.765 -61.640  1.00 33.81      A16S
ATOM  14944  C5* A   A 716     183.457 104.271 -60.388  1.00 33.81      A16S
ATOM  14945  C4* A   A 716     184.198 105.560 -60.566  1.00 33.81      A16S
ATOM  14946  O4* A   A 716     185.247 105.379 -61.541  1.00 33.81      A16S
ATOM  14947  C1* A   A 716     185.474 106.603 -62.216  1.00 33.81      A16S
ATOM  14948  N9  A   A 716     185.228 106.416 -63.644  1.00 48.45      A16S
ATOM  14949  C4  A   A 716     185.527 107.337 -64.613  1.00 48.45      A16S
ATOM  14950  N3  A   A 716     186.091 108.543 -64.439  1.00 48.45      A16S
ATOM  14951  C2  A   A 716     186.234 109.168 -65.607  1.00 48.45      A16S
ATOM  14952  N1  A   A 716     185.898 108.753 -66.837  1.00 48.45      A16S
ATOM  14953  C6  A   A 716     185.326 107.533 -66.972  1.00 48.45      A16S
ATOM  14954  N6  A   A 716     184.974 107.119 -68.191  1.00 48.45      A16S
ATOM  14955  C5  A   A 716     185.126 106.770 -65.807  1.00 48.45      A16S
ATOM  14956  N7  A   A 716     184.584 105.511 -65.596  1.00 48.45      A16S
ATOM  14957  C8  A   A 716     184.669 105.347 -64.300  1.00 48.45      A16S
ATOM  14958  C2* A   A 716     184.521 107.633 -61.624  1.00 33.81      A16S
ATOM  14959  O2* A   A 716     185.181 108.293 -60.563  1.00 33.81      A16S
ATOM  14960  C3* A   A 716     183.414 106.746 -61.091  1.00 33.81      A16S
ATOM  14961  O3* A   A 716     182.698 107.408 -60.072  1.00 33.81      A16S
ATOM  14962  P   C   A 717     181.366 108.226 -60.447  1.00 34.32      A16S
ATOM  14963  O1P C   A 717     180.817 108.701 -59.139  1.00 36.04      A16S
ATOM  14964  O2P C   A 717     180.507 107.403 -61.352  1.00 36.04      A16S
ATOM  14965  O5* C   A 717     181.875 109.490 -61.280  1.00 34.32      A16S
ATOM  14966  C5* C   A 717     182.601 110.536 -60.628  1.00 34.32      A16S
ATOM  14967  C4* C   A 717     183.231 111.464 -61.639  1.00 34.32      A16S
ATOM  14968  O4* C   A 717     183.704 110.702 -62.773  1.00 34.32      A16S
ATOM  14969  C1* C   A 717     183.267 111.293 -63.970  1.00 34.32      A16S
ATOM  14970  N1  C   A 717     182.924 110.219 -64.913  1.00 36.04      A16S
ATOM  14971  C6  C   A 717     182.512 108.999 -64.467  1.00 36.04      A16S
ATOM  14972  C2  C   A 717     183.027 110.467 -66.267  1.00 36.04      A16S
ATOM  14973  O2  C   A 717     183.416 111.572 -66.637  1.00 36.04      A16S
ATOM  14974  N3  C   A 717     182.711 109.500 -67.143  1.00 36.04      A16S
ATOM  14975  C4  C   A 717     182.317 108.313 -66.701  1.00 36.04      A16S
ATOM  14976  N4  C   A 717     182.037 107.376 -67.598  1.00 36.04      A16S
ATOM  14977  C5  C   A 717     182.203 108.027 -65.321  1.00 36.04      A16S
ATOM  14978  C2* C   A 717     182.068 112.160 -63.616  1.00 34.32      A16S
ATOM  14979  O2* C   A 717     182.032 113.262 -64.499  1.00 34.32      A16S
ATOM  14980  C3* C   A 717     182.396 112.602 -62.199  1.00 34.32      A16S
ATOM  14981  O3* C   A 717     183.223 113.735 -62.279  1.00 34.32      A16S
ATOM  14982  P   G   A 718     183.012 114.951 -61.258  1.00 38.61      A16S
ATOM  14983  O1P G   A 718     182.170 114.558 -60.100  1.00 39.10      A16S
ATOM  14984  O2P G   A 718     182.636 116.130 -62.058  1.00 39.10      A16S
ATOM  14985  O5* G   A 718     184.472 115.182 -60.698  1.00 38.61      A16S
ATOM  14986  C5* G   A 718     184.809 116.418 -60.132  1.00 38.61      A16S
ATOM  14987  C4* G   A 718     186.191 116.837 -60.550  1.00 38.61      A16S
ATOM  14988  O4* G   A 718     186.587 116.275 -61.824  1.00 38.61      A16S
ATOM  14989  C1* G   A 718     187.308 117.243 -62.563  1.00 38.61      A16S
ATOM  14990  N9  G   A 718     186.672 117.379 -63.869  1.00 39.10      A16S
ATOM  14991  C4  G   A 718     186.952 118.309 -64.845  1.00 39.10      A16S
ATOM  14992  N3  G   A 718     187.869 119.294 -64.769  1.00 39.10      A16S
ATOM  14993  C2  G   A 718     187.916 120.011 -65.879  1.00 39.10      A16S
ATOM  14994  N2  G   A 718     188.776 121.022 -65.979  1.00 39.10      A16S
ATOM  14995  N1  G   A 718     187.123 119.789 -66.970  1.00 39.10      A16S
ATOM  14996  C6  G   A 718     186.165 118.788 -67.065  1.00 39.10      A16S
ATOM  14997  O6  G   A 718     185.480 118.684 -68.086  1.00 39.10      A16S
ATOM  14998  C5  G   A 718     186.114 118.000 -65.894  1.00 39.10      A16S
ATOM  14999  N7  G   A 718     185.323 116.902 -65.588  1.00 39.10      A16S
ATOM  15000  C8  G   A 718     185.683 116.575 -64.379  1.00 39.10      A16S
ATOM  15001  C2* G   A 718     187.405 118.518 -61.714  1.00 38.61      A16S
ATOM  15002  O2* G   A 718     188.664 118.547 -61.071  1.00 38.61      A16S
ATOM  15003  C3* G   A 718     186.246 118.332 -60.739  1.00 38.61      A16S
ATOM  15004  O3* G   A 718     186.380 118.912 -59.451  1.00 38.61      A16S
ATOM  15005  P   C   A 719     185.096 119.585 -58.759  1.00 45.10      A16S
ATOM  15006  O1P C   A 719     185.471 119.928 -57.361  1.00 37.84      A16S
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ATOM  15007  O2P C   A 719     183.866 118.779 -59.010  1.00 37.84      A16S
ATOM  15008  O5* C   A 719     184.977 120.935 -59.578  1.00 45.10      A16S
ATOM  15009  C5* C   A 719     186.117 121.775 -59.707  1.00 45.10      A16S
ATOM  15010  C4* C   A 719     185.987 122.628 -60.923  1.00 45.10      A16S
ATOM  15011  O4* C   A 719     186.001 121.796 -62.095  1.00 45.10      A16S
ATOM  15012  C1* C   A 719     185.388 122.506 -63.146  1.00 45.10      A16S
ATOM  15013  N1  C   A 719     184.658 121.576 -64.010  1.00 37.84      A16S
ATOM  15014  C6  C   A 719     184.273 120.343 -63.565  1.00 37.84      A16S
ATOM  15015  C2  C   A 719     184.384 121.971 -65.312  1.00 37.84      A16S
ATOM  15016  O2  C   A 719     184.724 123.098 -65.677  1.00 37.84      A16S
ATOM  15017  N3  C   A 719     183.755 121.121 -66.144  1.00 37.84      A16S
ATOM  15018  C4  C   A 719     183.392 119.913 -65.712  1.00 37.84      A16S
ATOM  15019  N4  C   A 719     182.776 119.096 -66.580  1.00 37.84      A16S
ATOM  15020  C5  C   A 719     183.643 119.487 -64.375  1.00 37.84      A16S
ATOM  15021  C2* C   A 719     184.582 123.660 -62.547  1.00 45.10      A16S
ATOM  15022  O2* C   A 719     185.221 124.861 -62.910  1.00 45.10      A16S
ATOM  15023  C3* C   A 719     184.676 123.376 -61.047  1.00 45.10      A16S
ATOM  15024  O3* C   A 719     184.726 124.559 -60.261  1.00 45.10      A16S
ATOM  15025  P   C   A 720     183.740 124.715 -59.005  1.00 42.77      A16S
ATOM  15026  O1P C   A 720     184.108 125.974 -58.323  1.00 40.43      A16S
ATOM  15027  O2P C   A 720     183.747 123.445 -58.240  1.00 40.43      A16S
ATOM  15028  O5* C   A 720     182.309 124.879 -59.685  1.00 42.77      A16S
ATOM  15029  C5* C   A 720     182.043 125.968 -60.589  1.00 42.77      A16S
ATOM  15030  C4* C   A 720     180.866 125.639 -61.473  1.00 42.77      A16S
ATOM  15031  O4* C   A 720     181.224 124.574 -62.379  1.00 42.77      A16S
ATOM  15032  C1* C   A 720     180.117 123.716 -62.565  1.00 42.77      A16S
ATOM  15033  N1  C   A 720     180.524 122.380 -62.115  1.00 40.43      A16S
ATOM  15034  C6  C   A 720     181.436 122.234 -61.106  1.00 40.43      A16S
ATOM  15035  C2  C   A 720     179.992 121.254 -62.753  1.00 40.43      A16S
ATOM  15036  O2  C   A 720     179.128 121.411 -63.620  1.00 40.43      A16S
ATOM  15037  N3  C   A 720     180.432 120.024 -62.401  1.00 40.43      A16S
ATOM  15038  C4  C   A 720     181.351 119.898 -61.441  1.00 40.43      A16S
ATOM  15039  N4  C   A 720     181.786 118.677 -61.148  1.00 40.43      A16S
ATOM  15040  C5  C   A 720     181.875 121.026 -60.743  1.00 40.43      A16S
ATOM  15041  C2* C   A 720     178.926 124.299 -61.803  1.00 42.77      A16S
ATOM  15042  O2* C   A 720     178.127 125.055 -62.695  1.00 42.77      A16S
ATOM  15043  C3* C   A 720     179.622 125.154 -60.746  1.00 42.77      A16S
ATOM  15044  O3* C   A 720     178.836 126.278 -60.391  1.00 42.77      A16S
ATOM  15045  P   G   A 721     178.286 126.456 -58.891  1.00 45.53      A16S
ATOM  15046  O1P G   A 721     176.828 126.156 -58.922  1.00 55.78      A16S
ATOM  15047  O2P G   A 721     178.765 127.782 -58.404  1.00 55.78      A16S
ATOM  15048  O5* G   A 721     178.967 125.346 -57.990  1.00 45.53      A16S
ATOM  15049  C5* G   A 721     178.726 125.370 -56.582  1.00 45.53      A16S
ATOM  15050  C4* G   A 721     179.168 124.086 -55.953  1.00 45.53      A16S
ATOM  15051  O4* G   A 721     178.412 122.993 -56.533  1.00 45.53      A16S
ATOM  15052  C1* G   A 721     179.291 122.039 -57.084  1.00 45.53      A16S
ATOM  15053  N9  G   A 721     178.699 121.565 -58.332  1.00 55.78      A16S
ATOM  15054  C4  G   A 721     178.683 120.270 -58.811  1.00 55.78      A16S
ATOM  15055  N3  G   A 721     179.208 119.185 -58.201  1.00 55.78      A16S
ATOM  15056  C2  G   A 721     179.062 118.089 -58.934  1.00 55.78      A16S
ATOM  15057  N2  G   A 721     179.536 116.922 -58.496  1.00 55.78      A16S
ATOM  15058  N1  G   A 721     178.445 118.053 -60.159  1.00 55.78      A16S
ATOM  15059  C6  G   A 721     177.898 119.153 -60.809  1.00 55.78      A16S
ATOM  15060  O6  G   A 721     177.377 119.013 -61.929  1.00 55.78      A16S
ATOM  15061  C5  G   A 721     178.046 120.342 -60.034  1.00 55.78      A16S
ATOM  15062  N7  G   A 721     177.652 121.646 -60.308  1.00 55.78      A16S
ATOM  15063  C8  G   A 721     178.055 122.332 -59.272  1.00 55.78      A16S
ATOM  15064  C2* G   A 721     180.635 122.748 -57.278  1.00 45.53      A16S
ATOM  15065  O2* G   A 721     181.718 121.849 -57.164  1.00 45.53      A16S
ATOM  15066  C3* G   A 721     180.640 123.763 -56.140  1.00 45.53      A16S
ATOM  15067  O3* G   A 721     181.146 123.193 -54.944  1.00 45.53      A16S
ATOM  15068  P   A   A 722     181.762 124.149 -53.812  1.00 64.60      A16S
ATOM  15069  O1P A   A 722     182.450 125.288 -54.453  1.00 36.05      A16S
ATOM  15070  O2P A   A 722     182.491 123.289 -52.853  1.00 36.05      A16S
ATOM  15071  O5* A   A 722     180.497 124.761 -53.080  1.00 64.60      A16S
ATOM  15072  C5* A   A 722     179.653 123.938 -52.278  1.00 64.60      A16S
ATOM  15073  C4* A   A 722     178.376 124.664 -51.985  1.00 64.60      A16S
ATOM  15074  O4* A   A 722     177.785 125.110 -53.225  1.00 64.60      A16S
ATOM  15075  C1* A   A 722     176.379 125.028 -53.137  1.00 64.60      A16S
ATOM  15076  N9  A   A 722     175.914 124.210 -54.251  1.00 36.05      A16S
ATOM  15077  C4  A   A 722     176.159 122.881 -54.444  1.00 36.05      A16S
ATOM  15078  N3  A   A 722     176.850 122.067 -53.641  1.00 36.05      A16S
ATOM  15079  C2  A   A 722     176.890 120.854 -54.152  1.00 36.05      A16S
ATOM  15080  N1  A   A 722     176.357 120.397 -55.291  1.00 36.05      A16S
ATOM  15081  C6  A   A 722     175.670 121.252 -56.073  1.00 36.05      A16S
ATOM  15082  N6  A   A 722     175.139 120.809 -57.215  1.00 36.05      A16S
ATOM  15083  C5  A   A 722     175.554 122.557 -55.643  1.00 36.05      A16S
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ATOM  15084  N7  A   A 722     174.929 123.658 -56.197  1.00 36.05      A16S
ATOM  15085  C8  A   A 722     175.168 124.613 -55.332  1.00 36.05      A16S
ATOM  15086  C2* A   A 722     176.015 124.521 -51.739  1.00 64.60      A16S
ATOM  15087  O2* A   A 722     175.680 125.657 -50.964  1.00 64.60      A16S
ATOM  15088  C3* A   A 722     177.312 123.837 -51.299  1.00 64.60      A16S
ATOM  15089  O3* A   A 722     177.530 123.944 -49.903  1.00 64.60      A16S
ATOM  15090  P   U   A 723     177.670 122.623 -49.006  1.00201.07      A16S
ATOM  15091  O1P U   A 723     179.091 122.204 -49.092  1.00196.84      A16S
ATOM  15092  O2P U   A 723     176.597 121.665 -49.384  1.00196.84      A16S
ATOM  15093  O5* U   A 723     177.404 123.163 -47.527  1.00201.07      A16S
ATOM  15094  C5* U   A 723     176.094 123.079 -46.901  1.00201.07      A16S
ATOM  15095  C4* U   A 723     175.483 124.460 -46.758  1.00201.07      A16S
ATOM  15096  O4* U   A 723     176.553 125.437 -46.678  1.00201.07      A16S
ATOM  15097  C1* U   A 723     176.182 126.621 -47.364  1.00201.07      A16S
ATOM  15098  N1  U   A 723     177.210 126.926 -48.380  1.00196.84      A16S
ATOM  15099  C6  U   A 723     178.389 126.212 -48.432  1.00196.84      A16S
ATOM  15100  C2  U   A 723     176.970 127.960 -49.285  1.00196.84      A16S
ATOM  15101  O2  U   A 723     175.947 128.628 -49.287  1.00196.84      A16S
ATOM  15102  N3  U   A 723     177.980 128.185 -50.187  1.00196.84      A16S
ATOM  15103  C4  U   A 723     179.178 127.508 -50.282  1.00196.84      A16S
ATOM  15104  O4  U   A 723     179.994 127.840 -51.144  1.00196.84      A16S
ATOM  15105  C5  U   A 723     179.351 126.462 -49.324  1.00196.84      A16S
ATOM  15106  C2* U   A 723     174.752 126.436 -47.885  1.00201.07      A16S
ATOM  15107  O2* U   A 723     173.849 127.039 -46.979  1.00201.07      A16S
ATOM  15108  C3* U   A 723     174.612 124.916 -47.923  1.00201.07      A16S
ATOM  15109  O3* U   A 723     173.246 124.586 -47.679  1.00201.07      A16S
ATOM  15110  P   G   A 724     172.580 123.294 -48.367  1.00 60.08      A16S
ATOM  15111  O1P G   A 724     171.164 123.326 -47.939  1.00 47.02      A16S
ATOM  15112  O2P G   A 724     173.414 122.082 -48.061  1.00 47.02      A16S
ATOM  15113  O5* G   A 724     172.576 123.589 -49.936  1.00 60.08      A16S
ATOM  15114  C5* G   A 724     171.895 124.739 -50.465  1.00 60.08      A16S
ATOM  15115  C4* G   A 724     171.486 124.513 -51.905  1.00 60.08      A16S
ATOM  15116  O4* G   A 724     172.655 124.168 -52.686  1.00 60.08      A16S
ATOM  15117  C1* G   A 724     172.294 123.265 -53.720  1.00 60.08      A16S
ATOM  15118  N9  G   A 724     172.967 121.988 -53.489  1.00 47.02      A16S
ATOM  15119  C4  G   A 724     172.889 120.874 -54.290  1.00 47.02      A16S
ATOM  15120  N3  G   A 724     172.198 120.774 -55.439  1.00 47.02      A16S
ATOM  15121  C2  G   A 724     172.303 119.573 -55.975  1.00 47.02      A16S
ATOM  15122  N2  G   A 724     171.670 119.300 -57.126  1.00 47.02      A16S
ATOM  15123  N1  G   A 724     173.029 118.554 -55.428  1.00 47.02      A16S
ATOM  15124  C6  G   A 724     173.743 118.636 -54.243  1.00 47.02      A16S
ATOM  15125  O6  G   A 724     174.357 117.656 -53.829  1.00 47.02      A16S
ATOM  15126  C5  G   A 724     173.642 119.917 -53.659  1.00 47.02      A16S
ATOM  15127  N7  G   A 724     174.197 120.416 -52.489  1.00 47.02      A16S
ATOM  15128  C8  G   A 724     173.774 121.648 -52.431  1.00 47.02      A16S
ATOM  15129  C2* G   A 724     170.783 123.086 -53.656  1.00 60.08      A16S
ATOM  15130  O2* G   A 724     170.187 123.999 -54.552  1.00 60.08      A16S
ATOM  15131  C3* G   A 724     170.508 123.386 -52.190  1.00 60.08      A16S
ATOM  15132  O3* G   A 724     169.152 123.746 -51.968  1.00 60.08      A16S
ATOM  15133  P   G   A 725     168.090 122.611 -51.535  1.00 45.38      A16S
ATOM  15134  O1P G   A 725     166.853 123.347 -51.207  1.00 39.80      A16S
ATOM  15135  O2P G   A 725     168.710 121.721 -50.514  1.00 39.80      A16S
ATOM  15136  O5* G   A 725     167.811 121.774 -52.863  1.00 45.38      A16S
ATOM  15137  C5* G   A 725     167.262 122.422 -54.018  1.00 45.38      A16S
ATOM  15138  C4* G   A 725     167.253 121.489 -55.202  1.00 45.38      A16S
ATOM  15139  O4* G   A 725     168.602 121.016 -55.447  1.00 45.38      A16S
ATOM  15140  C1* G   A 725     168.560 119.682 -55.930  1.00 45.38      A16S
ATOM  15141  N9  G   A 725     169.275 118.822 -54.986  1.00 39.80      A16S
ATOM  15142  C4  G   A 725     169.549 117.482 -55.150  1.00 39.80      A16S
ATOM  15143  N3  G   A 725     169.227 116.730 -56.226  1.00 39.80      A16S
ATOM  15144  C2  G   A 725     169.599 115.473 -56.073  1.00 39.80      A16S
ATOM  15145  N2  G   A 725     169.352 114.583 -57.033  1.00 39.80      A16S
ATOM  15146  N1  G   A 725     170.239 114.999 -54.964  1.00 39.80      A16S
ATOM  15147  C6  G   A 725     170.581 115.758 -53.852  1.00 39.80      A16S
ATOM  15148  O6  G   A 725     171.153 115.228 -52.902  1.00 39.80      A16S
ATOM  15149  C5  G   A 725     170.189 117.097 -53.995  1.00 39.80      A16S
ATOM  15150  N7  G   A 725     170.334 118.167 -53.130  1.00 39.80      A16S
ATOM  15151  C8  G   A 725     169.783 119.168 -53.758  1.00 39.80      A16S
ATOM  15152  C2* G   A 725     167.088 119.281 -56.055  1.00 45.38      A16S
ATOM  15153  O2* G   A 725     166.617 119.495 -57.371  1.00 45.38      A16S
ATOM  15154  C3* G   A 725     166.435 120.218 -55.052  1.00 45.38      A16S
ATOM  15155  O3* G   A 725     165.053 120.398 -55.316  1.00 45.38      A16S
ATOM  15156  P   C   A 726     163.982 119.474 -54.547  1.00 31.83      A16S
ATOM  15157  O1P C   A 726     162.615 119.892 -54.948  1.00 55.23      A16S
ATOM  15158  O2P C   A 726     164.351 119.448 -53.112  1.00 55.23      A16S
ATOM  15159  O5* C   A 726     164.232 118.031 -55.153  1.00 31.83      A16S
ATOM  15160  C5* C   A 726     163.863 117.769 -56.493  1.00 31.83      A16S
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ATOM  15161  C4* C   A 726     164.075 116.333 -56.803  1.00 31.83      A16S
ATOM  15162  O4* C   A 726     165.486 116.034 -56.724  1.00 31.83      A16S
ATOM  15163  C1* C   A 726     165.667 114.693 -56.312  1.00 31.83      A16S
ATOM  15164  N1  C   A 726     166.429 114.676 -55.061  1.00 55.23      A16S
ATOM  15165  C6  C   A 726     166.557 115.798 -54.296  1.00 55.23      A16S
ATOM  15166  C2  C   A 726     167.001 113.478 -54.650  1.00 55.23      A16S
ATOM  15167  O2  C   A 726     166.906 112.494 -55.386  1.00 55.23      A16S
ATOM  15168  N3  C   A 726     167.645 113.421 -53.465  1.00 55.23      A16S
ATOM  15169  C4  C   A 726     167.740 114.513 -52.710  1.00 55.23      A16S
ATOM  15170  N4  C   A 726     168.358 114.412 -51.533  1.00 55.23      A16S
ATOM  15171  C5  C   A 726     167.198 115.761 -53.123  1.00 55.23      A16S
ATOM  15172  C2* C   A 726     164.279 114.109 -56.095  1.00 31.83      A16S
ATOM  15173  O2* C   A 726     163.878 113.502 -57.300  1.00 31.83      A16S
ATOM  15174  C3* C   A 726     163.472 115.364 -55.818  1.00 31.83      A16S
ATOM  15175  O3* C   A 726     162.086 115.199 -56.005  1.00 31.83      A16S
ATOM  15176  P   G   A 727     161.154 114.944 -54.726  1.00 35.26      A16S
ATOM  15177  O1P G   A 727     159.747 115.052 -55.189  1.00 31.09      A16S
ATOM  15178  O2P G   A 727     161.643 115.819 -53.625  1.00 31.09      A16S
ATOM  15179  O5* G   A 727     161.445 113.423 -54.350  1.00 35.26      A16S
ATOM  15180  C5* G   A 727     161.167 112.394 -55.302  1.00 35.26      A16S
ATOM  15181  C4* G   A 727     161.758 111.079 -54.868  1.00 35.26      A16S
ATOM  15182  O4* G   A 727     163.203 111.152 -54.825  1.00 35.26      A16S
ATOM  15183  C1* G   A 727     163.695 110.224 -53.874  1.00 35.26      A16S
ATOM  15184  N9  G   A 727     164.445 110.951 -52.860  1.00 31.09      A16S
ATOM  15185  C4  G   A 727     165.219 110.412 -51.864  1.00 31.09      A16S
ATOM  15186  N3  G   A 727     165.505 109.110 -51.702  1.00 31.09      A16S
ATOM  15187  C2  G   A 727     166.231 108.904 -50.619  1.00 31.09      A16S
ATOM  15188  N2  G   A 727     166.638 107.665 -50.307  1.00 31.09      A16S
ATOM  15189  N1  G   A 727     166.619 109.895 -49.762  1.00 31.09      A16S
ATOM  15190  C6  G   A 727     166.320 111.237 -49.916  1.00 31.09      A16S
ATOM  15191  O6  G   A 727     166.682 112.052 -49.065  1.00 31.09      A16S
ATOM  15192  C5  G   A 727     165.585 111.470 -51.078  1.00 31.09      A16S
ATOM  15193  N7  G   A 727     165.121 112.655 -51.605  1.00 31.09      A16S
ATOM  15194  C8  G   A 727     164.460 112.300 -52.668  1.00 31.09      A16S
ATOM  15195  C2* G   A 727     162.483 109.547 -53.234  1.00 35.26      A16S
ATOM  15196  O2* G   A 727     162.234 108.307 -53.865  1.00 35.26      A16S
ATOM  15197  C3* G   A 727     161.390 110.569 -53.495  1.00 35.26      A16S
ATOM  15198  O3* G   A 727     160.105 109.989 -53.474  1.00 35.26      A16S
ATOM  15199  P   A   A 728     159.035 110.505 -52.393  1.00 37.38      A16S
ATOM  15200  O1P A   A 728     157.682 110.233 -52.933  1.00 30.58      A16S
ATOM  15201  O2P A   A 728     159.402 111.896 -51.978  1.00 30.58      A16S
ATOM  15202  O5* A   A 728     159.244 109.536 -51.151  1.00 37.38      A16S
ATOM  15203  C5* A   A 728     158.640 109.833 -49.890  1.00 37.38      A16S
ATOM  15204  C4* A   A 728     159.102 108.844 -48.868  1.00 37.38      A16S
ATOM  15205  O4* A   A 728     158.565 107.551 -49.212  1.00 37.38      A16S
ATOM  15206  C1* A   A 728     159.553 106.559 -49.038  1.00 37.38      A16S
ATOM  15207  N9  A   A 728     159.865 106.050 -50.366  1.00 30.58      A16S
ATOM  15208  C4  A   A 728     160.223 104.773 -50.704  1.00 30.58      A16S
ATOM  15209  N3  A   A 728     160.393 103.731 -49.882  1.00 30.58      A16S
ATOM  15210  C2  A   A 728     160.706 102.650 -50.565  1.00 30.58      A16S
ATOM  15211  N1  A   A 728     160.868 102.504 -51.875  1.00 30.58      A16S
ATOM  15212  C6  A   A 728     160.712 103.584 -52.668  1.00 30.58      A16S
ATOM  15213  N6  A   A 728     160.903 103.460 -53.980  1.00 30.58      A16S
ATOM  15214  C5  A   A 728     160.365 104.777 -52.071  1.00 30.58      A16S
ATOM  15215  N7  A   A 728     160.121 106.036 -52.592  1.00 30.58      A16S
ATOM  15216  C8  A   A 728     159.837 106.756 -51.541  1.00 30.58      A16S
ATOM  15217  C2* A   A 728     160.750 107.218 -48.366  1.00 37.38      A16S
ATOM  15218  O2* A   A 728     160.604 107.079 -46.964  1.00 37.38      A16S
ATOM  15219  C3* A   A 728     160.600 108.647 -48.857  1.00 37.38      A16S
ATOM  15220  O3* A   A 728     161.229 109.610 -48.050  1.00 37.38      A16S
ATOM  15221  P   A   A 729     162.738 110.023 -48.369  1.00 25.93      A16S
ATOM  15222  O1P A   A 729     163.100 111.096 -47.414  1.00 22.75      A16S
ATOM  15223  O2P A   A 729     162.822 110.298 -49.813  1.00 22.75      A16S
ATOM  15224  O5* A   A 729     163.560 108.700 -48.000  1.00 25.93      A16S
ATOM  15225  C5* A   A 729     163.755 108.356 -46.612  1.00 25.93      A16S
ATOM  15226  C4* A   A 729     164.193 106.917 -46.427  1.00 25.93      A16S
ATOM  15227  O4* A   A 729     163.267 106.015 -47.068  1.00 25.93      A16S
ATOM  15228  C1* A   A 729     163.934 104.815 -47.415  1.00 25.93      A16S
ATOM  15229  N9  A   A 729     163.869 104.654 -48.864  1.00 22.75      A16S
ATOM  15230  C4  A   A 729     163.963 103.475 -49.562  1.00 22.75      A16S
ATOM  15231  N3  A   A 729     164.068 102.238 -49.059  1.00 22.75      A16S
ATOM  15232  C2  A   A 729     164.193 101.353 -50.031  1.00 22.75      A16S
ATOM  15233  N1  A   A 729     164.231 101.544 -51.347  1.00 22.75      A16S
ATOM  15234  C6  A   A 729     164.122 102.796 -51.823  1.00 22.75      A16S
ATOM  15235  N6  A   A 729     164.182 102.985 -53.145  1.00 22.75      A16S
ATOM  15236  C5  A   A 729     163.964 103.826 -50.893  1.00 22.75      A16S
ATOM  15237  N7  A   A 729     163.816 105.196 -51.037  1.00 22.75      A16S
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ATOM  15238  C8  A   A 729     163.756 105.637 -49.806  1.00 22.75      A16S
ATOM  15239  C2* A   A 729     165.385 104.960 -46.970  1.00 25.93      A16S
ATOM  15240  O2* A   A 729     165.527 104.392 -45.690  1.00 25.93      A16S
ATOM  15241  C3* A   A 729     165.545 106.471 -46.946  1.00 25.93      A16S
ATOM  15242  O3* A   A 729     166.609 106.864 -46.095  1.00 25.93      A16S
ATOM  15243  P   G   A 730     168.005 107.322 -46.748  1.00 24.24      A16S
ATOM  15244  O1P G   A 730     168.904 107.755 -45.639  1.00 32.66      A16S
ATOM  15245  O2P G   A 730     167.710 108.264 -47.862  1.00 32.66      A16S
ATOM  15246  O5* G   A 730     168.567 105.945 -47.305  1.00 24.24      A16S
ATOM  15247  C5* G   A 730     168.840 104.893 -46.376  1.00 24.24      A16S
ATOM  15248  C4* G   A 730     169.176 103.606 -47.081  1.00 24.24      A16S
ATOM  15249  O4* G   A 730     168.027 103.148 -47.827  1.00 24.24      A16S
ATOM  15250  C1* G   A 730     168.455 102.469 -48.985  1.00 24.24      A16S
ATOM  15251  N9  G   A 730     168.042 103.249 -50.146  1.00 32.66      A16S
ATOM  15252  C4  G   A 730     168.140 102.859 -51.451  1.00 32.66      A16S
ATOM  15253  N3  G   A 730     168.614 101.681 -51.880  1.00 32.66      A16S
ATOM  15254  C2  G   A 730     168.614 101.603 -53.190  1.00 32.66      A16S
ATOM  15255  N2  G   A 730     169.078 100.489 -53.786  1.00 32.66      A16S
ATOM  15256  N1  G   A 730     168.162 102.605 -54.010  1.00 32.66      A16S
ATOM  15257  C6  G   A 730     167.653 103.816 -53.578  1.00 32.66      A16S
ATOM  15258  O6  G   A 730     167.246 104.635 -54.398  1.00 32.66      A16S
ATOM  15259  C5  G   A 730     167.673 103.915 -52.186  1.00 32.66      A16S
ATOM  15260  N7  G   A 730     167.280 104.950 -51.361  1.00 32.66      A16S
ATOM  15261  C8  G   A 730     167.510 104.509 -50.158  1.00 32.66      A16S
ATOM  15262  C2* G   A 730     169.974 102.379 -48.906  1.00 24.24      A16S
ATOM  15263  O2* G   A 730     170.287 101.211 -48.185  1.00 24.24      A16S
ATOM  15264  C3* G   A 730     170.307 103.614 -48.091  1.00 24.24      A16S
ATOM  15265  O3* G   A 730     171.584 103.502 -47.483  1.00 24.24      A16S
ATOM  15266  P   G   A 731     172.769 104.493 -47.937  1.00 39.41      A16S
ATOM  15267  O1P G   A 731     173.997 103.666 -48.020  1.00 45.50      A16S
ATOM  15268  O2P G   A 731     172.758 105.709 -47.082  1.00 45.50      A16S
ATOM  15269  O5* G   A 731     172.390 104.969 -49.409  1.00 39.41      A16S
ATOM  15270  C5* G   A 731     172.722 104.167 -50.542  1.00 39.41      A16S
ATOM  15271  C4* G   A 731     171.912 104.590 -51.735  1.00 39.41      A16S
ATOM  15272  O4* G   A 731     170.698 105.248 -51.282  1.00 39.41      A16S
ATOM  15273  C1* G   A 731     170.297 106.218 -52.236  1.00 39.41      A16S
ATOM  15274  N9  G   A 731     170.254 107.538 -51.612  1.00 45.50      A16S
ATOM  15275  C4  G   A 731     169.645 108.645 -52.140  1.00 45.50      A16S
ATOM  15276  N3  G   A 731     168.975 108.693 -53.305  1.00 45.50      A16S
ATOM  15277  C2  G   A 731     168.527 109.904 -53.564  1.00 45.50      A16S
ATOM  15278  N2  G   A 731     167.864 110.133 -54.704  1.00 45.50      A16S
ATOM  15279  N1  G   A 731     168.701 110.972 -52.733  1.00 45.50      A16S
ATOM  15280  C6  G   A 731     169.375 110.934 -51.520  1.00 45.50      A16S
ATOM  15281  O6  G   A 731     169.459 111.950 -50.833  1.00 45.50      A16S
ATOM  15282  C5  G   A 731     169.882 109.654 -51.246  1.00 45.50      A16S
ATOM  15283  N7  G   A 731     170.623 109.196 -50.170  1.00 45.50      A16S
ATOM  15284  C8  G   A 731     170.815 107.933 -50.426  1.00 45.50      A16S
ATOM  15285  C2* G   A 731     171.320 106.203 -53.367  1.00 39.41      A16S
ATOM  15286  O2* G   A 731     170.808 105.421 -54.426  1.00 39.41      A16S
ATOM  15287  C3* G   A 731     172.538 105.606 -52.670  1.00 39.41      A16S
ATOM  15288  O3* G   A 731     173.430 105.009 -53.593  1.00 39.41      A16S
ATOM  15289  P   C   A 732     174.430 105.941 -54.440  1.00 35.54      A16S
ATOM  15290  O1P C   A 732     175.170 105.069 -55.383  1.00 28.31      A16S
ATOM  15291  O2P C   A 732     175.174 106.823 -53.516  1.00 28.31      A16S
ATOM  15292  O5* C   A 732     173.461 106.832 -55.322  1.00 35.54      A16S
ATOM  15293  C5* C   A 732     172.672 106.230 -56.347  1.00 35.54      A16S
ATOM  15294  C4* C   A 732     172.037 107.289 -57.190  1.00 35.54      A16S
ATOM  15295  O4* C   A 732     171.040 108.009 -56.423  1.00 35.54      A16S
ATOM  15296  C1* C   A 732     171.035 109.373 -56.811  1.00 35.54      A16S
ATOM  15297  N1  C   A 732     171.354 110.205 -55.636  1.00 28.31      A16S
ATOM  15298  C6  C   A 732     171.984 109.679 -54.548  1.00 28.31      A16S
ATOM  15299  C2  C   A 732     171.016 111.557 -55.660  1.00 28.31      A16S
ATOM  15300  O2  C   A 732     170.398 112.003 -56.626  1.00 28.31      A16S
ATOM  15301  N3  C   A 732     171.365 112.346 -54.633  1.00 28.31      A16S
ATOM  15302  C4  C   A 732     172.010 111.834 -53.597  1.00 28.31      A16S
ATOM  15303  N4  C   A 732     172.378 112.668 -52.628  1.00 28.31      A16S
ATOM  15304  C5  C   A 732     172.321 110.449 -53.514  1.00 28.31      A16S
ATOM  15305  C2* C   A 732     172.056 109.534 -57.937  1.00 35.54      A16S
ATOM  15306  O2* C   A 732     171.370 109.441 -59.170  1.00 35.54      A16S
ATOM  15307  C3* C   A 732     172.994 108.360 -57.665  1.00 35.54      A16S
ATOM  15308  O3* C   A 732     173.742 107.892 -58.779  1.00 35.54      A16S
ATOM  15309  P   A   A 733     175.249 108.399 -59.004  1.00 64.24      A16S
ATOM  15310  O1P A   A 733     175.946 107.324 -59.724  1.00 37.70      A16S
ATOM  15311  O2P A   A 733     175.823 108.917 -57.740  1.00 37.70      A16S
ATOM  15312  O5* A   A 733     175.050 109.599 -60.024  1.00 64.24      A16S
ATOM  15313  C5* A   A 733     176.154 110.182 -60.711  1.00 64.24      A16S
ATOM  15314  C4* A   A 733     175.888 111.636 -60.908  1.00 64.24      A16S
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ATOM  15315  O4*  A   A 733     175.794 112.258 -59.623  1.00 64.24       A16S
ATOM  15316  C1*  A   A 733     175.840 113.638 -59.832  1.00 64.24       A16S
ATOM  15317  N9   A   A 733     176.293 114.328 -58.638  1.00 37.70       A16S
ATOM  15318  C4   A   A 733     176.049 115.651 -58.429  1.00 37.70       A16S
ATOM  15319  N3   A   A 733     175.406 116.489 -59.261  1.00 37.70       A16S
ATOM  15320  C2   A   A 733     175.341 117.705 -58.730  1.00 37.70       A16S
ATOM  15321  N1   A   A 733     175.815 118.140 -57.548  1.00 37.70       A16S
ATOM  15322  C6   A   A 733     176.465 117.257 -56.743  1.00 37.70       A16S
ATOM  15323  N6   A   A 733     176.957 117.679 -55.570  1.00 37.70       A16S
ATOM  15324  C5   A   A 733     176.591 115.941 -57.195  1.00 37.70       A16S
ATOM  15325  N7   A   A 733     177.176 114.816 -56.637  1.00 37.70       A16S
ATOM  15326  C8   A   A 733     176.977 113.888 -57.536  1.00 37.70       A16S
ATOM  15327  C2*  A   A 733     176.645 113.896 -61.100  1.00 64.24       A16S
ATOM  15328  O2*  A   A 733     175.791 114.672 -61.928  1.00 64.24       A16S
ATOM  15329  C3*  A   A 733     176.942 112.472 -61.601  1.00 64.24       A16S
ATOM  15330  O3*  A   A 733     176.692 112.408 -62.994  1.00 64.24       A16S
ATOM  15331  P    G   A 734     177.624 111.517 -63.933  1.00 41.11       A16S
ATOM  15332  O1P  G   A 734     176.715 110.609 -64.687  1.00 43.25       A16S
ATOM  15333  O2P  G   A 734     178.718 110.948 -63.108  1.00 43.25       A16S
ATOM  15334  O5*  G   A 734     178.212 112.551 -64.985  1.00 41.11       A16S
ATOM  15335  C5*  G   A 734     178.674 113.846 -64.581  1.00 41.11       A16S
ATOM  15336  C4*  G   A 734     179.200 114.587 -65.781  1.00 41.11       A16S
ATOM  15337  O4*  G   A 734     180.291 113.814 -66.329  1.00 41.11       A16S
ATOM  15338  C1*  G   A 734     180.193 113.774 -67.732  1.00 41.11       A16S
ATOM  15339  N9   G   A 734     179.931 112.391 -68.099  1.00 43.25       A16S
ATOM  15340  C4   G   A 734     179.895 111.870 -69.361  1.00 43.25       A16S
ATOM  15341  N3   G   A 734     180.090 112.555 -70.503  1.00 43.25       A16S
ATOM  15342  C2   G   A 734     180.016 111.774 -71.561  1.00 43.25       A16S
ATOM  15343  N2   G   A 734     180.213 112.291 -72.783  1.00 43.25       A16S
ATOM  15344  N1   G   A 734     179.752 110.428 -71.501  1.00 43.25       A16S
ATOM  15345  C6   G   A 734     179.539 109.707 -70.331  1.00 43.25       A16S
ATOM  15346  O6   G   A 734     179.301 108.493 -70.381  1.00 43.25       A16S
ATOM  15347  C5   G   A 734     179.633 110.530 -69.195  1.00 43.25       A16S
ATOM  15348  N7   G   A 734     179.505 110.215 -67.851  1.00 43.25       A16S
ATOM  15349  C8   G   A 734     179.685 111.349 -67.240  1.00 43.25       A16S
ATOM  15350  C2*  G   A 734     179.087 114.740 -68.150  1.00 41.11       A16S
ATOM  15351  O2*  G   A 734     179.656 116.012 -68.374  1.00 41.11       A16S
ATOM  15352  C3*  G   A 734     178.196 114.736 -66.919  1.00 41.11       A16S
ATOM  15353  O3*  G   A 734     177.467 115.962 -66.802  1.00 41.11       A16S
ATOM  15354  P    C   A 735     175.941 116.035 -67.290  1.00 48.35       A16S
ATOM  15355  O1P  C   A 735     175.450 117.426 -67.070  1.00 48.68       A16S
ATOM  15356  O2P  C   A 735     175.214 114.891 -66.688  1.00 48.68       A16S
ATOM  15357  O5*  C   A 735     176.035 115.768 -68.852  1.00 48.35       A16S
ATOM  15358  C5*  C   A 735     176.627 116.735 -69.729  1.00 48.35       A16S
ATOM  15359  C4*  C   A 735     176.650 116.196 -71.129  1.00 48.35       A16S
ATOM  15360  O4*  C   A 735     177.477 115.011 -71.148  1.00 48.35       A16S
ATOM  15361  C1*  C   A 735     176.950 114.074 -72.056  1.00 48.35       A16S
ATOM  15362  N1   C   A 735     176.675 112.831 -71.340  1.00 48.68       A16S
ATOM  15363  C6   C   A 735     176.521 112.813 -69.987  1.00 48.68       A16S
ATOM  15364  C2   C   A 735     176.577 111.653 -72.076  1.00 48.68       A16S
ATOM  15365  O2   C   A 735     176.704 111.708 -73.310  1.00 48.68       A16S
ATOM  15366  N3   C   A 735     176.343 110.486 -71.439  1.00 48.68       A16S
ATOM  15367  C4   C   A 735     176.197 110.474 -70.119  1.00 48.68       A16S
ATOM  15368  N4   C   A 735     175.966 109.301 -69.530  1.00 48.68       A16S
ATOM  15369  C5   C   A 735     176.281 111.667 -69.341  1.00 48.68       A16S
ATOM  15370  C2*  C   A 735     175.703 114.677 -72.689  1.00 48.35       A16S
ATOM  15371  O2*  C   A 735     176.066 115.226 -73.939  1.00 48.35       A16S
ATOM  15372  C3*  C   A 735     175.309 115.713 -71.646  1.00 48.35       A16S
ATOM  15373  O3*  C   A 735     174.526 116.774 -72.169  1.00 48.35       A16S
ATOM  15374  P    C   A 736     172.933 116.619 -72.220  1.00 50.04       A16S
ATOM  15375  O1P  C   A 736     172.395 117.900 -72.745  1.00 40.67       A16S
ATOM  15376  O2P  C   A 736     172.441 116.081 -70.928  1.00 40.67       A16S
ATOM  15377  O5*  C   A 736     172.716 115.483 -73.303  1.00 50.04       A16S
ATOM  15378  C5*  C   A 736     173.119 115.703 -74.648  1.00 50.04       A16S
ATOM  15379  C4*  C   A 736     172.717 114.539 -75.503  1.00 50.04       A16S
ATOM  15380  O4*  C   A 736     173.514 113.381 -75.174  1.00 50.04       A16S
ATOM  15381  C1*  C   A 736     172.776 112.213 -75.470  1.00 50.04       A16S
ATOM  15382  N1   C   A 736     172.745 111.343 -74.293  1.00 40.67       A16S
ATOM  15383  C6   C   A 736     173.051 111.810 -73.049  1.00 40.67       A16S
ATOM  15384  C2   C   A 736     172.379 110.003 -74.477  1.00 40.67       A16S
ATOM  15385  O2   C   A 736     172.096 109.608 -75.623  1.00 40.67       A16S
ATOM  15386  N3   C   A 736     172.333 109.177 -73.415  1.00 40.67       A16S
ATOM  15387  C4   C   A 736     172.625 109.639 -72.206  1.00 40.67       A16S
ATOM  15388  N4   C   A 736     172.554 108.786 -71.189  1.00 40.67       A16S
ATOM  15389  C5   C   A 736     173.002 111.002 -71.986  1.00 40.67       A16S
ATOM  15390  C2*  C   A 736     171.373 112.632 -75.895  1.00 50.04       A16S
ATOM  15391  O2*  C   A 736     171.291 112.598 -77.303  1.00 50.04       A16S
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ATOM  15392  C3* C   A 736     171.296 114.042 -75.336  1.00 50.04      A16S
ATOM  15393  O3* C   A 736     170.364 114.833 -76.034  1.00 50.04      A16S
ATOM  15394  P   A   A 737     168.895 115.015 -75.429  1.00 38.66      A16S
ATOM  15395  O1P A   A 737     168.325 116.230 -76.084  1.00 44.78      A16S
ATOM  15396  O2P A   A 737     168.984 114.958 -73.937  1.00 44.78      A16S
ATOM  15397  O5* A   A 737     168.134 113.717 -75.949  1.00 38.66      A16S
ATOM  15398  C5* A   A 737     167.950 113.516 -77.343  1.00 38.66      A16S
ATOM  15399  C4* A   A 737     167.583 112.091 -77.616  1.00 38.66      A16S
ATOM  15400  O4* A   A 737     168.657 111.225 -77.182  1.00 38.66      A16S
ATOM  15401  C1* A   A 737     168.126 109.974 -76.772  1.00 38.66      A16S
ATOM  15402  N9  A   A 737     168.495 109.741 -75.377  1.00 44.78      A16S
ATOM  15403  C4  A   A 737     168.554 108.521 -74.752  1.00 44.78      A16S
ATOM  15404  N3  A   A 737     168.295 107.318 -75.283  1.00 44.78      A16S
ATOM  15405  C2  A   A 737     168.452 106.358 -74.378  1.00 44.78      A16S
ATOM  15406  N1  A   A 737     168.813 106.453 -73.101  1.00 44.78      A16S
ATOM  15407  C6  A   A 737     169.062 107.679 -72.596  1.00 44.78      A16S
ATOM  15408  N6  A   A 737     169.411 107.786 -71.315  1.00 44.78      A16S
ATOM  15409  C5  A   A 737     168.931 108.781 -73.455  1.00 44.78      A16S
ATOM  15410  N7  A   A 737     169.106 110.142 -73.257  1.00 44.78      A16S
ATOM  15411  C8  A   A 737     168.837 110.666 -74.426  1.00 44.78      A16S
ATOM  15412  C2* A   A 737     166.608 110.045 -76.933  1.00 38.66      A16S
ATOM  15413  O2* A   A 737     166.229 109.448 -78.160  1.00 38.66      A16S
ATOM  15414  C3* A   A 737     166.371 111.549 -76.887  1.00 38.66      A16S
ATOM  15415  O3* A   A 737     165.150 111.916 -77.494  1.00 38.66      A16S
ATOM  15416  P   C   A 738     163.801 111.847 -76.636  1.00 45.18      A16S
ATOM  15417  O1P C   A 738     162.717 112.351 -77.505  1.00 47.64      A16S
ATOM  15418  O2P C   A 738     164.041 112.479 -75.319  1.00 47.64      A16S
ATOM  15419  O5* C   A 738     163.590 110.293 -76.394  1.00 45.18      A16S
ATOM  15420  C5* C   A 738     163.366 109.429 -77.497  1.00 45.18      A16S
ATOM  15421  C4* C   A 738     163.249 108.014 -77.023  1.00 45.18      A16S
ATOM  15422  O4* C   A 738     164.522 107.572 -76.501  1.00 45.18      A16S
ATOM  15423  C1* C   A 738     164.310 106.693 -75.409  1.00 45.18      A16S
ATOM  15424  N1  C   A 738     164.899 107.298 -74.203  1.00 47.64      A16S
ATOM  15425  C6  C   A 738     165.178 108.637 -74.146  1.00 47.64      A16S
ATOM  15426  C2  C   A 738     165.142 106.481 -73.101  1.00 47.64      A16S
ATOM  15427  O2  C   A 738     164.932 105.265 -73.203  1.00 47.64      A16S
ATOM  15428  N3  C   A 738     165.605 107.030 -71.961  1.00 47.64      A16S
ATOM  15429  C4  C   A 738     165.850 108.338 -71.905  1.00 47.64      A16S
ATOM  15430  N4  C   A 738     166.289 108.840 -70.752  1.00 47.64      A16S
ATOM  15431  C5  C   A 738     165.651 109.192 -73.029  1.00 47.64      A16S
ATOM  15432  C2* C   A 738     162.802 106.508 -75.248  1.00 45.18      A16S
ATOM  15433  O2* C   A 738     162.403 105.338 -75.929  1.00 45.18      A16S
ATOM  15434  C3* C   A 738     162.276 107.788 -75.883  1.00 45.18      A16S
ATOM  15435  O3* C   A 738     160.945 107.677 -76.347  1.00 45.18      A16S
ATOM  15436  P   C   A 739     159.745 108.144 -75.394  1.00 57.23      A16S
ATOM  15437  O1P C   A 739     158.492 108.029 -76.172  1.00 52.46      A16S
ATOM  15438  O2P C   A 739     160.105 109.450 -74.778  1.00 52.46      A16S
ATOM  15439  O5* C   A 739     159.726 106.999 -74.288  1.00 57.23      A16S
ATOM  15440  C5* C   A 739     159.471 105.644 -74.676  1.00 57.23      A16S
ATOM  15441  C4* C   A 739     159.660 104.714 -73.512  1.00 57.23      A16S
ATOM  15442  O4* C   A 739     161.050 104.710 -73.117  1.00 57.23      A16S
ATOM  15443  C1* C   A 739     161.145 104.524 -71.715  1.00 57.23      A16S
ATOM  15444  N1  C   A 739     161.746 105.729 -71.117  1.00 52.46      A16S
ATOM  15445  C6  C   A 739     161.909 106.874 -71.846  1.00 52.46      A16S
ATOM  15446  C2  C   A 739     162.143 105.687 -69.773  1.00 52.46      A16S
ATOM  15447  O2  C   A 739     161.977 104.640 -69.131  1.00 52.46      A16S
ATOM  15448  N3  C   A 739     162.690 106.788 -69.213  1.00 52.46      A16S
ATOM  15449  C4  C   A 739     162.840 107.899 -69.935  1.00 52.46      A16S
ATOM  15450  N4  C   A 739     163.375 108.959 -69.341  1.00 52.46      A16S
ATOM  15451  C5  C   A 739     162.445 107.971 -71.299  1.00 52.46      A16S
ATOM  15452  C2* C   A 739     159.728 104.324 -71.190  1.00 57.23      A16S
ATOM  15453  O2* C   A 739     159.425 102.946 -71.172  1.00 57.23      A16S
ATOM  15454  C3* C   A 739     158.919 105.063 -72.237  1.00 57.23      A16S
ATOM  15455  O3* C   A 739     157.572 104.650 -72.233  1.00 57.23      A16S
ATOM  15456  P   U   A 740     156.473 105.586 -71.533  1.00 55.70      A16S
ATOM  15457  O1P U   A 740     155.206 104.820 -71.632  1.00 45.78      A16S
ATOM  15458  O2P U   A 740     156.553 106.961 -72.093  1.00 45.78      A16S
ATOM  15459  O5* U   A 740     156.940 105.677 -70.011  1.00 55.70      A16S
ATOM  15460  C5* U   A 740     156.774 104.549 -69.142  1.00 55.70      A16S
ATOM  15461  C4* U   A 740     157.335 104.818 -67.761  1.00 55.70      A16S
ATOM  15462  O4* U   A 740     158.770 105.029 -67.823  1.00 55.70      A16S
ATOM  15463  C1* U   A 740     159.178 105.768 -66.686  1.00 55.70      A16S
ATOM  15464  N1  U   A 740     159.785 107.035 -67.107  1.00 45.78      A16S
ATOM  15465  C6  U   A 740     159.523 107.594 -68.321  1.00 45.78      A16S
ATOM  15466  C2  U   A 740     160.602 107.673 -66.194  1.00 45.78      A16S
ATOM  15467  O2  U   A 740     160.899 107.188 -65.113  1.00 45.78      A16S
ATOM  15468  N3  U   A 740     161.057 108.897 -66.585  1.00 45.78      A16S
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ATOM  15469  C4  U   A 740     160.796 109.531 -67.759  1.00 45.78      A16S
ATOM  15470  O4  U   A 740     161.172 110.690 -67.907  1.00 45.78      A16S
ATOM  15471  C5  U   A 740     159.986 108.789 -68.667  1.00 45.78      A16S
ATOM  15472  C2* U   A 740     157.925 106.109 -65.888  1.00 55.70      A16S
ATOM  15473  O2* U   A 740     157.765 105.177 -64.841  1.00 55.70      A16S
ATOM  15474  C3* U   A 740     156.843 106.004 -66.950  1.00 55.70      A16S
ATOM  15475  O3* U   A 740     155.588 105.820 -66.325  1.00 55.70      A16S
ATOM  15476  P   G   A 741     154.869 107.078 -65.615  1.00 46.90      A16S
ATOM  15477  O1P G   A 741     153.433 106.713 -65.506  1.00 44.26      A16S
ATOM  15478  O2P G   A 741     155.260 108.336 -66.310  1.00 44.26      A16S
ATOM  15479  O5* G   A 741     155.488 107.118 -64.147  1.00 46.90      A16S
ATOM  15480  C5* G   A 741     155.314 106.002 -63.266  1.00 46.90      A16S
ATOM  15481  C4* G   A 741     155.942 106.271 -61.922  1.00 46.90      A16S
ATOM  15482  O4* G   A 741     157.378 106.431 -62.062  1.00 46.90      A16S
ATOM  15483  C1* G   A 741     157.856 107.363 -61.104  1.00 46.90      A16S
ATOM  15484  N9  G   A 741     158.323 108.549 -61.816  1.00 44.26      A16S
ATOM  15485  C4  G   A 741     159.004 109.633 -61.292  1.00 44.26      A16S
ATOM  15486  N3  G   A 741     159.405 109.781 -60.014  1.00 44.26      A16S
ATOM  15487  C2  G   A 741     159.986 110.954 -59.812  1.00 44.26      A16S
ATOM  15488  N2  G   A 741     160.424 111.276 -58.587  1.00 44.26      A16S
ATOM  15489  N1  G   A 741     160.171 111.900 -60.789  1.00 44.26      A16S
ATOM  15490  C6  G   A 741     159.770 111.767 -62.112  1.00 44.26      A16S
ATOM  15491  O6  G   A 741     159.973 112.688 -62.920  1.00 44.26      A16S
ATOM  15492  C5  G   A 741     159.143 110.517 -62.340  1.00 44.26      A16S
ATOM  15493  N7  G   A 741     158.599 109.992 -63.501  1.00 44.26      A16S
ATOM  15494  C8  G   A 741     158.132 108.825 -63.145  1.00 44.26      A16S
ATOM  15495  C2* G   A 741     156.664 107.727 -60.225  1.00 46.90      A16S
ATOM  15496  O2* G   A 741     156.617 106.822 -59.138  1.00 46.90      A16S
ATOM  15497  C3* G   A 741     155.509 107.527 -61.194  1.00 46.90      A16S
ATOM  15498  O3* G   A 741     154.249 107.415 -60.547  1.00 46.90      A16S
ATOM  15499  P   G   A 742     153.362 108.745 -60.323  1.00 41.47      A16S
ATOM  15500  O1P G   A 742     152.046 108.340 -59.765  1.00 40.86      A16S
ATOM  15501  O2P G   A 742     153.414 109.573 -61.560  1.00 40.86      A16S
ATOM  15502  O5* G   A 742     154.149 109.542 -59.190  1.00 41.47      A16S
ATOM  15503  C5* G   A 742     154.466 108.913 -57.945  1.00 41.47      A16S
ATOM  15504  C4* G   A 742     155.414 109.769 -57.142  1.00 41.47      A16S
ATOM  15505  O4* G   A 742     156.642 109.974 -57.879  1.00 41.47      A16S
ATOM  15506  C1* G   A 742     157.162 111.260 -57.601  1.00 41.47      A16S
ATOM  15507  N9  G   A 742     157.179 112.027 -58.843  1.00 40.86      A16S
ATOM  15508  C4  G   A 742     157.736 113.273 -59.052  1.00 40.86      A16S
ATOM  15509  N3  G   A 742     158.383 114.022 -58.136  1.00 40.86      A16S
ATOM  15510  C2  G   A 742     158.754 115.188 -58.629  1.00 40.86      A16S
ATOM  15511  N2  G   A 742     159.368 116.076 -57.844  1.00 40.86      A16S
ATOM  15512  N1  G   A 742     158.534 115.574 -59.924  1.00 40.86      A16S
ATOM  15513  C6  G   A 742     157.878 114.809 -60.884  1.00 40.86      A16S
ATOM  15514  O6  G   A 742     157.718 115.247 -62.033  1.00 40.86      A16S
ATOM  15515  C5  G   A 742     157.462 113.576 -60.363  1.00 40.86      A16S
ATOM  15516  N7  G   A 742     156.768 112.546 -60.973  1.00 40.86      A16S
ATOM  15517  C8  G   A 742     156.626 111.650 -60.037  1.00 40.86      A16S
ATOM  15518  C2* G   A 742     156.252 111.900 -56.560  1.00 41.47      A16S
ATOM  15519  O2* G   A 742     156.817 111.638 -55.293  1.00 41.47      A16S
ATOM  15520  C3* G   A 742     154.941 111.167 -56.805  1.00 41.47      A16S
ATOM  15521  O3* G   A 742     154.107 111.156 -55.656  1.00 41.47      A16S
ATOM  15522  P   U   A 743     152.903 112.215 -55.534  1.00 39.99      A16S
ATOM  15523  O1P U   A 743     152.365 111.998 -54.164  1.00 54.67      A16S
ATOM  15524  O2P U   A 743     151.997 112.088 -56.712  1.00 54.67      A16S
ATOM  15525  O5* U   A 743     153.625 113.638 -55.590  1.00 39.99      A16S
ATOM  15526  C5* U   A 743     154.561 114.030 -54.559  1.00 39.99      A16S
ATOM  15527  C4* U   A 743     155.295 115.296 -54.947  1.00 39.99      A16S
ATOM  15528  O4* U   A 743     156.024 115.080 -56.176  1.00 39.99      A16S
ATOM  15529  C1* U   A 743     156.073 116.285 -56.923  1.00 39.99      A16S
ATOM  15530  N1  U   A 743     155.482 116.063 -58.250  1.00 54.67      A16S
ATOM  15531  C6  U   A 743     154.778 114.926 -58.557  1.00 54.67      A16S
ATOM  15532  C2  U   A 743     155.677 117.055 -59.189  1.00 54.67      A16S
ATOM  15533  O2  U   A 743     156.288 118.082 -58.947  1.00 54.67      A16S
ATOM  15534  N3  U   A 743     155.138 116.804 -60.418  1.00 54.67      A16S
ATOM  15535  C4  U   A 743     154.446 115.683 -60.800  1.00 54.67      A16S
ATOM  15536  O4  U   A 743     154.146 115.543 -61.989  1.00 54.67      A16S
ATOM  15537  C5  U   A 743     154.267 114.707 -59.764  1.00 54.67      A16S
ATOM  15538  C2* U   A 743     155.336 117.360 -56.140  1.00 39.99      A16S
ATOM  15539  O2* U   A 743     156.299 118.142 -55.475  1.00 39.99      A16S
ATOM  15540  C3* U   A 743     154.440 116.513 -55.245  1.00 39.99      A16S
ATOM  15541  O3* U   A 743     154.056 117.177 -54.068  1.00 39.99      A16S
ATOM  15542  P   C   A 744     152.670 117.966 -54.034  1.00 38.31      A16S
ATOM  15543  O1P C   A 744     152.281 117.980 -52.612  1.00 36.81      A16S
ATOM  15544  O2P C   A 744     151.741 117.408 -55.047  1.00 36.81      A16S
ATOM  15545  O5* C   A 744     153.077 119.431 -54.490  1.00 38.31      A16S
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ATOM  15546  C5* C   A 744     154.042 120.170 -53.744  1.00 38.31      A16S
ATOM  15547  C4* C   A 744     154.489 121.368 -54.528  1.00 38.31      A16S
ATOM  15548  O4* C   A 744     155.187 120.933 -55.721  1.00 38.31      A16S
ATOM  15549  C1* C   A 744     154.909 121.822 -56.787  1.00 38.31      A16S
ATOM  15550  N1   C   A 744     154.169 121.088 -57.822  1.00 36.81      A16S
ATOM  15551  C6   C   A 744     153.574 119.890 -57.544  1.00 36.81      A16S
ATOM  15552  C2   C   A 744     154.092 121.629 -59.101  1.00 36.81      A16S
ATOM  15553  O2   C   A 744     154.603 122.734 -59.309  1.00 36.81      A16S
ATOM  15554  N3   C   A 744     153.455 120.940 -60.074  1.00 36.81      A16S
ATOM  15555  C4   C   A 744     152.897 119.761 -59.795  1.00 36.81      A16S
ATOM  15556  N4   C   A 744     152.294 119.106 -60.775  1.00 36.81      A16S
ATOM  15557  C5   C   A 744     152.935 119.200 -58.494  1.00 36.81      A16S
ATOM  15558  C2* C   A 744     154.068 122.957 -56.222  1.00 38.31      A16S
ATOM  15559  O2* C   A 744     154.960 123.989 -55.823  1.00 38.31      A16S
ATOM  15560  C3* C   A 744     153.383 122.256 -55.058  1.00 38.31      A16S
ATOM  15561  O3* C   A 744     152.900 123.150 -54.081  1.00 38.31      A16S
ATOM  15562  P    C   A 745     151.380 123.652 -54.167  1.00 43.02      A16S
ATOM  15563  O1P C   A 745     151.115 124.311 -52.869  1.00 42.91      A16S
ATOM  15564  O2P C   A 745     150.511 122.528 -54.613  1.00 42.91      A16S
ATOM  15565  O5* C   A 745     151.391 124.734 -55.337  1.00 43.02      A16S
ATOM  15566  C5* C   A 745     152.207 125.908 -55.245  1.00 43.02      A16S
ATOM  15567  C4* C   A 745     152.188 126.662 -56.546  1.00 43.02      A16S
ATOM  15568  O4* C   A 745     152.708 125.819 -57.593  1.00 43.02      A16S
ATOM  15569  C1* C   A 745     152.085 126.146 -58.821  1.00 43.02      A16S
ATOM  15570  N1   C   A 745     151.444 124.949 -59.360  1.00 42.91      A16S
ATOM  15571  C6   C   A 745     151.442 123.782 -58.659  1.00 42.91      A16S
ATOM  15572  C2   C   A 745     150.851 125.015 -60.624  1.00 42.91      A16S
ATOM  15573  O2   C   A 745     150.820 126.106 -61.223  1.00 42.91      A16S
ATOM  15574  N3   C   A 745     150.324 123.901 -61.159  1.00 42.91      A16S
ATOM  15575  C4   C   A 745     150.358 122.762 -60.476  1.00 42.91      A16S
ATOM  15576  N4   C   A 745     149.854 121.678 -61.050  1.00 42.91      A16S
ATOM  15577  C5   C   A 745     150.916 122.678 -59.174  1.00 42.91      A16S
ATOM  15578  C2* C   A 745     151.077 127.251 -58.559  1.00 43.02      A16S
ATOM  15579  O2* C   A 745     151.693 128.469 -58.903  1.00 43.02      A16S
ATOM  15580  C3* C   A 745     150.826 127.074 -57.071  1.00 43.02      A16S
ATOM  15581  O3* C   A 745     150.355 128.262 -56.463  1.00 43.02      A16S
ATOM  15582  P    A   A 746     148.783 128.437 -56.202  1.00 54.37      A16S
ATOM  15583  O1P A   A 746     148.645 129.464 -55.131  1.00 42.92      A16S
ATOM  15584  O2P A   A 746     148.183 127.082 -56.017  1.00 42.92      A16S
ATOM  15585  O5* A   A 746     148.256 129.012 -57.580  1.00 54.37      A16S
ATOM  15586  C5* A   A 746     148.871 130.145 -58.160  1.00 54.37      A16S
ATOM  15587  C4* A   A 746     148.454 130.252 -59.584  1.00 54.37      A16S
ATOM  15588  O4* A   A 746     148.953 129.105 -60.310  1.00 54.37      A16S
ATOM  15589  C1* A   A 746     148.009 128.709 -61.285  1.00 54.37      A16S
ATOM  15590  N9   A   A 746     147.594 127.346 -60.983  1.00 42.92      A16S
ATOM  15591  C4   A   A 746     147.138 126.420 -61.887  1.00 42.92      A16S
ATOM  15592  N3   A   A 746     146.955 126.591 -63.203  1.00 42.92      A16S
ATOM  15593  C2   A   A 746     146.522 125.466 -63.764  1.00 42.92      A16S
ATOM  15594  N1   A   A 746     146.280 124.282 -63.205  1.00 42.92      A16S
ATOM  15595  C6   A   A 746     146.474 124.144 -61.879  1.00 42.92      A16S
ATOM  15596  N6   A   A 746     146.244 122.957 -61.322  1.00 42.92      A16S
ATOM  15597  C5   A   A 746     146.915 125.267 -61.165  1.00 42.92      A16S
ATOM  15598  N7   A   A 746     147.192 125.470 -59.819  1.00 42.92      A16S
ATOM  15599  C8   A   A 746     147.588 126.718 -59.764  1.00 42.92      A16S
ATOM  15600  C2* A   A 746     146.835 129.679 -61.211  1.00 54.37      A16S
ATOM  15601  O2* A   A 746     147.018 130.676 -62.199  1.00 54.37      A16S
ATOM  15602  C3* A   A 746     146.957 130.189 -59.781  1.00 54.37      A16S
ATOM  15603  O3* A   A 746     146.362 131.453 -59.560  1.00 54.37      A16S
ATOM  15604  P    C   A 747     144.869 131.528 -58.978  1.00 65.14      A16S
ATOM  15605  O1P C   A 747     144.526 132.974 -58.958  1.00 61.97      A16S
ATOM  15606  O2P C   A 747     144.787 130.739 -57.719  1.00 61.97      A16S
ATOM  15607  O5* C   A 747     144.002 130.807 -60.107  1.00 65.14      A16S
ATOM  15608  C5* C   A 747     144.010 131.310 -61.460  1.00 65.14      A16S
ATOM  15609  C4* C   A 747     143.073 130.516 -62.346  1.00 65.14      A16S
ATOM  15610  O4* C   A 747     143.665 129.269 -62.780  1.00 65.14      A16S
ATOM  15611  C1* C   A 747     142.652 128.288 -62.928  1.00 65.14      A16S
ATOM  15612  N1   C   A 747     142.971 127.149 -62.046  1.00 61.97      A16S
ATOM  15613  C6   C   A 747     143.529 127.356 -60.813  1.00 61.97      A16S
ATOM  15614  C2   C   A 747     142.684 125.848 -62.481  1.00 61.97      A16S
ATOM  15615  O2   C   A 747     142.220 125.677 -63.614  1.00 61.97      A16S
ATOM  15616  N3   C   A 747     142.930 124.813 -61.658  1.00 61.97      A16S
ATOM  15617  C4   C   A 747     143.464 125.031 -60.452  1.00 61.97      A16S
ATOM  15618  N4   C   A 747     143.686 123.974 -59.663  1.00 61.97      A16S
ATOM  15619  C5   C   A 747     143.792 126.338 -59.997  1.00 61.97      A16S
ATOM  15620  C2* C   A 747     141.309 128.948 -62.601  1.00 65.14      A16S
ATOM  15621  O2* C   A 747     140.695 129.320 -63.816  1.00 65.14      A16S
ATOM  15622  C3* C   A 747     141.740 130.135 -61.741  1.00 65.14      A16S
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ATOM  15623  O3*  C   A 747     140.864 131.244 -61.818  1.00 65.14      A16S
ATOM  15624  P    C   A 748     139.801 131.495 -60.650  1.00 78.07      A16S
ATOM  15625  O1P  C   A 748     139.103 132.760 -60.969  1.00 70.38      A16S
ATOM  15626  O2P  C   A 748     140.461 131.343 -59.332  1.00 70.38      A16S
ATOM  15627  O5*  C   A 748     138.784 130.301 -60.874  1.00 78.07      A16S
ATOM  15628  C5*  C   A 748     137.613 130.167 -60.078  1.00 78.07      A16S
ATOM  15629  C4*  C   A 748     136.978 128.837 -60.369  1.00 78.07      A16S
ATOM  15630  O4*  C   A 748     138.055 127.883 -60.518  1.00 78.07      A16S
ATOM  15631  C1*  C   A 748     138.140 127.065 -59.369  1.00 78.07      A16S
ATOM  15632  N1   C   A 748     139.488 127.265 -58.786  1.00 70.38      A16S
ATOM  15633  C6   C   A 748     140.067 128.502 -58.775  1.00 70.38      A16S
ATOM  15634  C2   C   A 748     140.167 126.169 -58.228  1.00 70.38      A16S
ATOM  15635  O2   C   A 748     139.642 125.044 -58.266  1.00 70.38      A16S
ATOM  15636  N3   C   A 748     141.381 126.362 -57.662  1.00 70.38      A16S
ATOM  15637  C4   C   A 748     141.923 127.576 -57.643  1.00 70.38      A16S
ATOM  15638  N4   C   A 748     143.110 127.717 -57.058  1.00 70.38      A16S
ATOM  15639  C5   C   A 748     141.270 128.700 -58.218  1.00 70.38      A16S
ATOM  15640  C2*  C   A 748     137.005 127.454 -58.408  1.00 78.07      A16S
ATOM  15641  O2*  C   A 748     136.387 126.359 -57.757  1.00 78.07      A16S
ATOM  15642  C3*  C   A 748     136.068 128.301 -59.277  1.00 78.07      A16S
ATOM  15643  O3*  C   A 748     134.828 127.745 -59.792  1.00 78.07      A16S
ATOM  15644  P    C   A 749     134.781 126.310 -60.541  1.00 54.10      A16S
ATOM  15645  O1P  C   A 749     133.338 126.039 -60.771  1.00 74.85      A16S
ATOM  15646  O2P  C   A 749     135.600 125.278 -59.849  1.00 74.85      A16S
ATOM  15647  O5*  C   A 749     135.435 126.603 -61.960  1.00 54.10      A16S
ATOM  15648  C5*  C   A 749     134.646 126.543 -63.146  1.00 54.10      A16S
ATOM  15649  C4*  C   A 749     134.748 125.173 -63.758  1.00 54.10      A16S
ATOM  15650  O4*  C   A 749     136.117 124.947 -64.166  1.00 54.10      A16S
ATOM  15651  C1*  C   A 749     136.450 123.582 -63.990  1.00 54.10      A16S
ATOM  15652  N1   C   A 749     137.616 123.491 -63.084  1.00 74.85      A16S
ATOM  15653  C6   C   A 749     138.101 124.599 -62.450  1.00 74.85      A16S
ATOM  15654  C2   C   A 749     138.223 122.241 -62.881  1.00 74.85      A16S
ATOM  15655  O2   C   A 749     137.773 121.248 -63.473  1.00 74.85      A16S
ATOM  15656  N3   C   A 749     139.282 122.150 -62.050  1.00 74.85      A16S
ATOM  15657  C4   C   A 749     139.744 123.242 -61.440  1.00 74.85      A16S
ATOM  15658  N4   C   A 749     140.795 123.108 -60.636  1.00 74.85      A16S
ATOM  15659  C5   C   A 749     139.152 124.520 -61.629  1.00 74.85      A16S
ATOM  15660  C2*  C   A 749     135.207 122.860 -63.460  1.00 54.10      A16S
ATOM  15661  O2*  C   A 749     134.513 122.213 -64.512  1.00 54.10      A16S
ATOM  15662  C3*  C   A 749     134.424 124.007 -62.839  1.00 54.10      A16S
ATOM  15663  O3*  C   A 749     133.035 123.724 -62.816  1.00 54.10      A16S
ATOM  15664  P    G   A 750     132.426 122.803 -61.646  1.00 48.24      A16S
ATOM  15665  O1P  G   A 750     130.942 122.892 -61.729  1.00 49.98      A16S
ATOM  15666  O2P  G   A 750     133.114 123.158 -60.366  1.00 49.98      A16S
ATOM  15667  O5*  G   A 750     132.833 121.326 -62.075  1.00 48.24      A16S
ATOM  15668  C5*  G   A 750     132.218 120.696 -63.199  1.00 48.24      A16S
ATOM  15669  C4*  G   A 750     132.678 119.266 -63.299  1.00 48.24      A16S
ATOM  15670  O4*  G   A 750     134.125 119.272 -63.312  1.00 48.24      A16S
ATOM  15671  C1*  G   A 750     134.617 118.155 -62.596  1.00 48.24      A16S
ATOM  15672  N9   G   A 750     135.348 118.646 -61.429  1.00 49.98      A16S
ATOM  15673  C4   G   A 750     135.921 117.879 -60.447  1.00 49.98      A16S
ATOM  15674  N3   G   A 750     135.896 116.535 -60.380  1.00 49.98      A16S
ATOM  15675  C2   G   A 750     136.531 116.082 -59.317  1.00 49.98      A16S
ATOM  15676  N2   G   A 750     136.579 114.772 -59.089  1.00 49.98      A16S
ATOM  15677  N1   G   A 750     137.157 116.879 -58.399  1.00 49.98      A16S
ATOM  15678  C6   G   A 750     137.204 118.266 -58.451  1.00 49.98      A16S
ATOM  15679  O6   G   A 750     137.809 118.893 -57.578  1.00 49.98      A16S
ATOM  15680  C5   G   A 750     136.508 118.771 -59.579  1.00 49.98      A16S
ATOM  15681  N7   G   A 750     136.300 120.076 -59.998  1.00 49.98      A16S
ATOM  15682  C8   G   A 750     135.607 119.954 -61.095  1.00 49.98      A16S
ATOM  15683  C2*  G   A 750     133.418 117.296 -62.214  1.00 48.24      A16S
ATOM  15684  O2*  G   A 750     133.189 116.354 -63.245  1.00 48.24      A16S
ATOM  15685  C3*  G   A 750     132.321 118.344 -62.139  1.00 48.24      A16S
ATOM  15686  O3*  G   A 750     131.033 117.757 -62.269  1.00 48.24      A16S
ATOM  15687  P    U   A 751     130.153 117.477 -60.954  1.00 52.51      A16S
ATOM  15688  O1P  U   A 751     128.810 117.043 -61.411  1.00 39.99      A16S
ATOM  15689  O2P  U   A 751     130.283 118.645 -60.033  1.00 39.99      A16S
ATOM  15690  O5*  U   A 751     130.850 116.219 -60.273  1.00 52.51      A16S
ATOM  15691  C5*  U   A 751     130.789 114.921 -60.881  1.00 52.51      A16S
ATOM  15692  C4*  U   A 751     131.498 113.905 -60.013  1.00 52.51      A16S
ATOM  15693  O4*  U   A 751     132.874 114.312 -59.816  1.00 52.51      A16S
ATOM  15694  C1*  U   A 751     133.319 113.887 -58.543  1.00 52.51      A16S
ATOM  15695  N1   U   A 751     133.795 115.057 -57.795  1.00 39.99      A16S
ATOM  15696  C6   U   A 751     133.471 116.332 -58.177  1.00 39.99      A16S
ATOM  15697  C2   U   A 751     134.595 114.834 -56.689  1.00 39.99      A16S
ATOM  15698  O2   U   A 751     134.902 113.719 -56.302  1.00 39.99      A16S
ATOM  15699  N3   U   A 751     135.025 115.965 -56.048  1.00 39.99      A16S
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ATOM  15700  C4  U   A 751     134.744 117.258 -56.387  1.00 39.99      A16S
ATOM  15701  O4  U   A 751     135.222 118.165 -55.724  1.00 39.99      A16S
ATOM  15702  C5  U   A 751     133.909 117.411 -57.529  1.00 39.99      A16S
ATOM  15703  C2* U   A 751     132.170 113.147 -57.864  1.00 52.51      A16S
ATOM  15704  O2* U   A 751     132.320 111.756 -58.091  1.00 52.51      A16S
ATOM  15705  C3* U   A 751     130.964 113.705 -58.603  1.00 52.51      A16S
ATOM  15706  O3* U   A 751     129.918 112.752 -58.590  1.00 52.51      A16S
ATOM  15707  P   G   A 752     128.617 113.018 -57.695  1.00 34.10      A16S
ATOM  15708  O1P G   A 752     127.741 111.825 -57.863  1.00 54.64      A16S
ATOM  15709  O2P G   A 752     128.101 114.377 -58.048  1.00 54.64      A16S
ATOM  15710  O5* G   A 752     129.152 113.037 -56.197  1.00 34.10      A16S
ATOM  15711  C5* G   A 752     129.759 111.876 -55.627  1.00 34.10      A16S
ATOM  15712  C4* G   A 752     130.497 112.261 -54.388  1.00 34.10      A16S
ATOM  15713  O4* G   A 752     131.233 113.478 -54.688  1.00 34.10      A16S
ATOM  15714  C1* G   A 752     130.917 114.469 -53.740  1.00 34.10      A16S
ATOM  15715  N9  G   A 752     130.963 115.772 -54.382  1.00 54.64      A16S
ATOM  15716  C4  G   A 752     131.756 116.834 -54.027  1.00 54.64      A16S
ATOM  15717  N3  G   A 752     132.665 116.850 -53.038  1.00 54.64      A16S
ATOM  15718  C2  G   A 752     133.258 118.031 -52.931  1.00 54.64      A16S
ATOM  15719  N2  G   A 752     134.209 118.237 -52.004  1.00 54.64      A16S
ATOM  15720  N1  G   A 752     132.970 119.101 -53.723  1.00 54.64      A16S
ATOM  15721  C6  G   A 752     132.039 119.105 -54.748  1.00 54.64      A16S
ATOM  15722  O6  G   A 752     131.858 120.134 -55.412  1.00 54.64      A16S
ATOM  15723  C5  G   A 752     131.406 117.851 -54.880  1.00 54.64      A16S
ATOM  15724  N7  G   A 752     130.434 117.431 -55.772  1.00 54.64      A16S
ATOM  15725  C8  G   A 752     130.209 116.190 -55.443  1.00 54.64      A16S
ATOM  15726  C2* G   A 752     129.541 114.093 -53.205  1.00 34.10      A16S
ATOM  15727  O2* G   A 752     129.358 114.678 -51.937  1.00 34.10      A16S
ATOM  15728  C3* G   A 752     129.639 112.572 -53.168  1.00 34.10      A16S
ATOM  15729  O3* G   A 752     130.423 112.215 -52.037  1.00 34.10      A16S
ATOM  15730  P   A   A 753     129.745 111.588 -50.723  1.00 34.07      A16S
ATOM  15731  O1P A   A 753     129.338 110.200 -51.078  1.00 37.39      A16S
ATOM  15732  O2P A   A 753     128.760 112.528 -50.130  1.00 37.39      A16S
ATOM  15733  O5* A   A 753     130.976 111.481 -49.722  1.00 34.07      A16S
ATOM  15734  C5* A   A 753     132.135 110.707 -50.084  1.00 34.07      A16S
ATOM  15735  C4* A   A 753     133.099 110.637 -48.934  1.00 34.07      A16S
ATOM  15736  O4* A   A 753     133.821 111.888 -48.805  1.00 34.07      A16S
ATOM  15737  C1* A   A 753     133.736 112.349 -47.473  1.00 34.07      A16S
ATOM  15738  N9  A   A 753     133.715 113.810 -47.484  1.00 37.39      A16S
ATOM  15739  C4  A   A 753     134.450 114.642 -46.678  1.00 37.39      A16S
ATOM  15740  N3  A   A 753     135.297 114.292 -45.703  1.00 37.39      A16S
ATOM  15741  C2  A   A 753     135.855 115.374 -45.157  1.00 37.39      A16S
ATOM  15742  N1  A   A 753     135.676 116.661 -45.453  1.00 37.39      A16S
ATOM  15743  C6  A   A 753     134.816 116.972 -46.438  1.00 37.39      A16S
ATOM  15744  N6  A   A 753     134.637 118.254 -46.741  1.00 37.39      A16S
ATOM  15745  C5  A   A 753     134.160 115.921 -47.092  1.00 37.39      A16S
ATOM  15746  N7  A   A 753     133.240 115.903 -48.121  1.00 37.39      A16S
ATOM  15747  C8  A   A 753     133.001 114.630 -48.308  1.00 37.39      A16S
ATOM  15748  C2* A   A 753     132.489 111.706 -46.886  1.00 34.07      A16S
ATOM  15749  O2* A   A 753     132.634 111.624 -45.487  1.00 34.07      A16S
ATOM  15750  C3* A   A 753     132.477 110.345 -47.581  1.00 34.07      A16S
ATOM  15751  O3* A   A 753     133.301 109.430 -46.897  1.00 34.07      A16S
ATOM  15752  P   C   A 754     133.094 107.858 -47.130  1.00 41.28      A16S
ATOM  15753  O1P C   A 754     131.640 107.601 -47.313  1.00 31.49      A16S
ATOM  15754  O2P C   A 754     133.851 107.114 -46.088  1.00 31.49      A16S
ATOM  15755  O5* C   A 754     133.799 107.580 -48.527  1.00 41.28      A16S
ATOM  15756  C5* C   A 754     135.205 107.754 -48.686  1.00 41.28      A16S
ATOM  15757  C4* C   A 754     135.595 107.436 -50.094  1.00 41.28      A16S
ATOM  15758  O4* C   A 754     134.709 108.138 -50.988  1.00 41.28      A16S
ATOM  15759  C1* C   A 754     135.419 108.552 -52.132  1.00 41.28      A16S
ATOM  15760  N1  C   A 754     135.160 109.990 -52.338  1.00 31.49      A16S
ATOM  15761  C6  C   A 754     134.511 110.409 -53.460  1.00 31.49      A16S
ATOM  15762  C2  C   A 754     135.569 110.921 -51.374  1.00 31.49      A16S
ATOM  15763  O2  C   A 754     136.154 110.523 -50.367  1.00 31.49      A16S
ATOM  15764  N3  C   A 754     135.311 112.231 -51.569  1.00 31.49      A16S
ATOM  15765  C4  C   A 754     134.679 112.625 -52.669  1.00 31.49      A16S
ATOM  15766  N4  C   A 754     134.459 113.922 -52.832  1.00 31.49      A16S
ATOM  15767  C5  C   A 754     134.250 111.704 -53.662  1.00 31.49      A16S
ATOM  15768  C2* C   A 754     136.880 108.110 -51.982  1.00 41.28      A16S
ATOM  15769  O2* C   A 754     137.094 106.931 -52.732  1.00 41.28      A16S
ATOM  15770  C3* C   A 754     136.992 107.872 -50.479  1.00 41.28      A16S
ATOM  15771  O3* C   A 754     137.903 106.826 -50.171  1.00 41.28      A16S
ATOM  15772  P   G   A 755     139.440 107.169 -49.862  1.00 32.84      A16S
ATOM  15773  O1P G   A 755     140.019 107.656 -51.157  1.00 32.87      A16S
ATOM  15774  O2P G   A 755     140.034 105.985 -49.184  1.00 32.87      A16S
ATOM  15775  O5* G   A 755     139.386 108.334 -48.771  1.00 32.84      A16S
ATOM  15776  C5* G   A 755     139.904 109.645 -49.046  1.00 32.84      A16S
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ATOM  15777  C4* G   A 755     140.093 110.410 -47.762  1.00 32.84      A16S
ATOM  15778  O4* G   A 755     138.843 110.406 -47.031  1.00 32.84      A16S
ATOM  15779  C1* G   A 755     139.085 110.207 -45.651  1.00 32.84      A16S
ATOM  15780  N9  G   A 755     138.659 108.849 -45.320  1.00 32.87      A16S
ATOM  15781  C4  G   A 755     138.714 108.249 -44.090  1.00 32.87      A16S
ATOM  15782  N3  G   A 755     139.131 108.821 -42.948  1.00 32.87      A16S
ATOM  15783  C2  G   A 755     139.102 107.973 -41.942  1.00 32.87      A16S
ATOM  15784  N2  G   A 755     139.480 108.365 -40.732  1.00 32.87      A16S
ATOM  15785  N1  G   A 755     138.703 106.679 -42.049  1.00 32.87      A16S
ATOM  15786  C6  G   A 755     138.279 106.071 -43.219  1.00 32.87      A16S
ATOM  15787  O6  G   A 755     137.964 104.879 -43.217  1.00 32.87      A16S
ATOM  15788  C5  G   A 755     138.290 106.960 -44.295  1.00 32.87      A16S
ATOM  15789  N7  G   A 755     137.938 106.759 -45.615  1.00 32.87      A16S
ATOM  15790  C8  G   A 755     138.167 107.906 -46.185  1.00 32.87      A16S
ATOM  15791  C2* G   A 755     140.591 110.341 -45.458  1.00 32.84      A16S
ATOM  15792  O2* G   A 755     140.880 111.708 -45.257  1.00 32.84      A16S
ATOM  15793  C3* G   A 755     141.100 109.825 -46.793  1.00 32.84      A16S
ATOM  15794  O3* G   A 755     142.409 110.267 -47.095  1.00 32.84      A16S
ATOM  15795  P   C   A 756     143.625 109.214 -47.088  1.00 33.65      A16S
ATOM  15796  O1P C   A 756     144.718 109.846 -47.864  1.00 39.80      A16S
ATOM  15797  O2P C   A 756     143.138 107.864 -47.474  1.00 39.80      A16S
ATOM  15798  O5* C   A 756     144.054 109.143 -45.560  1.00 33.65      A16S
ATOM  15799  C5* C   A 756     144.371 110.339 -44.849  1.00 33.65      A16S
ATOM  15800  C4* C   A 756     144.483 110.063 -43.375  1.00 33.65      A16S
ATOM  15801  O4* C   A 756     143.196 109.654 -42.853  1.00 33.65      A16S
ATOM  15802  C1* C   A 756     143.386 108.740 -41.788  1.00 33.65      A16S
ATOM  15803  N1  C   A 756     142.750 107.457 -42.140  1.00 39.80      A16S
ATOM  15804  C6  C   A 756     142.323 107.213 -43.413  1.00 39.80      A16S
ATOM  15805  C2  C   A 756     142.602 106.479 -41.148  1.00 39.80      A16S
ATOM  15806  O2  C   A 756     142.979 106.727 -39.991  1.00 39.80      A16S
ATOM  15807  N3  C   A 756     142.056 105.291 -41.473  1.00 39.80      A16S
ATOM  15808  C4  C   A 756     141.659 105.059 -42.725  1.00 39.80      A16S
ATOM  15809  N4  C   A 756     141.137 103.859 -43.010  1.00 39.80      A16S
ATOM  15810  C5  C   A 756     141.780 106.041 -43.746  1.00 39.80      A16S
ATOM  15811  C2* C   A 756     144.890 108.584 -41.587  1.00 33.65      A16S
ATOM  15812  O2* C   A 756     145.315 109.505 -40.601  1.00 33.65      A16S
ATOM  15813  C3* C   A 756     145.414 108.942 -42.967  1.00 33.65      A16S
ATOM  15814  O3* C   A 756     146.770 109.335 -42.945  1.00 33.65      A16S
ATOM  15815  P   U   A 757     147.905 108.267 -43.346  1.00 19.02      A16S
ATOM  15816  O1P U   A 757     149.189 108.994 -43.296  1.00 29.86      A16S
ATOM  15817  O2P U   A 757     147.504 107.559 -44.599  1.00 29.86      A16S
ATOM  15818  O5* U   A 757     147.883 107.202 -42.159  1.00 19.02      A16S
ATOM  15819  C5* U   A 757     148.219 107.584 -40.820  1.00 19.02      A16S
ATOM  15820  C4* U   A 757     147.875 106.475 -39.865  1.00 19.02      A16S
ATOM  15821  O4* U   A 757     146.456 106.209 -39.950  1.00 19.02      A16S
ATOM  15822  C1* U   A 757     146.212 104.843 -39.685  1.00 19.02      A16S
ATOM  15823  N1  U   A 757     145.541 104.240 -40.839  1.00 29.86      A16S
ATOM  15824  C6  U   A 757     145.635 104.783 -42.088  1.00 29.86      A16S
ATOM  15825  C2  U   A 757     144.822 103.088 -40.621  1.00 29.86      A16S
ATOM  15826  O2  U   A 757     144.691 102.593 -39.523  1.00 29.86      A16S
ATOM  15827  N3  U   A 757     144.253 102.539 -41.735  1.00 29.86      A16S
ATOM  15828  C4  U   A 757     144.316 103.022 -43.016  1.00 29.86      A16S
ATOM  15829  O4  U   A 757     143.758 102.408 -43.924  1.00 29.86      A16S
ATOM  15830  C5  U   A 757     145.061 104.229 -43.157  1.00 29.86      A16S
ATOM  15831  C2* U   A 757     147.551 104.170 -39.437  1.00 19.02      A16S
ATOM  15832  O2* U   A 757     147.736 104.107 -38.050  1.00 19.02      A16S
ATOM  15833  C3* U   A 757     148.509 105.121 -40.133  1.00 19.02      A16S
ATOM  15834  O3* U   A 757     149.830 105.010 -39.624  1.00 19.02      A16S
ATOM  15835  P   G   A 758     150.885 104.049 -40.367  1.00 27.04      A16S
ATOM  15836  O1P G   A 758     152.222 104.185 -39.680  1.00 20.19      A16S
ATOM  15837  O2P G   A 758     150.792 104.264 -41.829  1.00 20.19      A16S
ATOM  15838  O5* G   A 758     150.293 102.589 -40.164  1.00 27.04      A16S
ATOM  15839  C5* G   A 758     150.118 102.021 -38.869  1.00 27.04      A16S
ATOM  15840  C4* G   A 758     149.300 100.770 -38.992  1.00 27.04      A16S
ATOM  15841  O4* G   A 758     148.037 101.135 -39.592  1.00 27.04      A16S
ATOM  15842  C1* G   A 758     147.600 100.122 -40.469  1.00 27.04      A16S
ATOM  15843  N9  G   A 758     147.435 100.700 -41.793  1.00 20.19      A16S
ATOM  15844  C4  G   A 758     146.575 100.261 -42.753  1.00 20.19      A16S
ATOM  15845  N3  G   A 758     145.716  99.241 -42.625  1.00 20.19      A16S
ATOM  15846  C2  G   A 758     145.042  99.034 -43.735  1.00 20.19      A16S
ATOM  15847  N2  G   A 758     144.125  98.073 -43.780  1.00 20.19      A16S
ATOM  15848  N1  G   A 758     145.213  99.761 -44.881  1.00 20.19      A16S
ATOM  15849  C6  G   A 758     146.081 100.822 -45.027  1.00 20.19      A16S
ATOM  15850  O6  G   A 758     146.137 101.415 -46.092  1.00 20.19      A16S
ATOM  15851  C5  G   A 758     146.801 101.065 -43.850  1.00 20.19      A16S
ATOM  15852  N7  G   A 758     147.767 102.017 -43.571  1.00 20.19      A16S
ATOM  15853  C8  G   A 758     148.113 101.765 -42.337  1.00 20.19      A16S
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ATOM  15854  C2* G   A 758     148.622  98.992 -40.423  1.00 27.04      A16S
ATOM  15855  O2* G   A 758     148.136  98.033 -39.511  1.00 27.04      A16S
ATOM  15856  C3* G   A 758     149.871  99.716 -39.925  1.00 27.04      A16S
ATOM  15857  O3* G   A 758     150.783  98.893 -39.193  1.00 27.04      A16S
ATOM  15858  P    A   A 759     151.274  97.481 -39.794  1.00 26.97      A16S
ATOM  15859  O1P A   A 759     152.726  97.397 -39.521  1.00 46.62      A16S
ATOM  15860  O2P A   A 759     150.779  97.316 -41.177  1.00 46.62      A16S
ATOM  15861  O5* A   A 759     150.546  96.419 -38.861  1.00 26.97      A16S
ATOM  15862  C5* A   A 759     150.533  96.621 -37.437  1.00 26.97      A16S
ATOM  15863  C4* A   A 759     150.124  95.365 -36.721  1.00 26.97      A16S
ATOM  15864  O4* A   A 759     148.693  95.153 -36.791  1.00 26.97      A16S
ATOM  15865  C1* A   A 759     148.421  93.769 -36.750  1.00 26.97      A16S
ATOM  15866  N9   A   A 759     147.654  93.404 -37.934  1.00 46.62      A16S
ATOM  15867  C4   A   A 759     146.807  92.331 -38.011  1.00 46.62      A16S
ATOM  15868  N3   A   A 759     146.503  91.462 -37.030  1.00 46.62      A16S
ATOM  15869  C2   A   A 759     145.671  90.523 -37.479  1.00 46.62      A16S
ATOM  15870  N1   A   A 759     145.152  90.371 -38.701  1.00 46.62      A16S
ATOM  15871  C6   A   A 759     145.479  91.271 -39.658  1.00 46.62      A16S
ATOM  15872  N6   A   A 759     144.969  91.124 -40.873  1.00 46.62      A16S
ATOM  15873  C5   A   A 759     146.346  92.309 -39.312  1.00 46.62      A16S
ATOM  15874  N7   A   A 759     146.870  93.366 -40.037  1.00 46.62      A16S
ATOM  15875  C8   A   A 759     147.634  93.990 -39.176  1.00 46.62      A16S
ATOM  15876  C2* A   A 759     149.763  93.040 -36.704  1.00 26.97      A16S
ATOM  15877  O2* A   A 759     150.046  92.745 -35.358  1.00 26.97      A16S
ATOM  15878  C3* A   A 759     150.712  94.089 -37.260  1.00 26.97      A16S
ATOM  15879  O3* A   A 759     152.029  93.936 -36.792  1.00 26.97      A16S
ATOM  15880  P    G   A 760     153.142  93.319 -37.763  1.00 42.94      A16S
ATOM  15881  O1P G   A 760     154.296  93.006 -36.889  1.00 37.38      A16S
ATOM  15882  O2P G   A 760     153.341  94.157 -38.980  1.00 37.38      A16S
ATOM  15883  O5* G   A 760     152.472  91.959 -38.224  1.00 42.94      A16S
ATOM  15884  C5* G   A 760     152.677  91.446 -39.540  1.00 42.94      A16S
ATOM  15885  C4* G   A 760     151.733  90.305 -39.784  1.00 42.94      A16S
ATOM  15886  O4* G   A 760     150.374  90.810 -39.779  1.00 42.94      A16S
ATOM  15887  C1* G   A 760     149.618  90.139 -40.767  1.00 42.94      A16S
ATOM  15888  N9   G   A 760     149.325  91.088 -41.831  1.00 37.38      A16S
ATOM  15889  C4   G   A 760     148.507  90.847 -42.891  1.00 37.38      A16S
ATOM  15890  N3   G   A 760     147.802  89.720 -43.089  1.00 37.38      A16S
ATOM  15891  C2   G   A 760     147.103  89.770 -44.199  1.00 37.38      A16S
ATOM  15892  N2   G   A 760     146.320  88.738 -44.520  1.00 37.38      A16S
ATOM  15893  N1   G   A 760     147.109  90.837 -45.069  1.00 37.38      A16S
ATOM  15894  C6   G   A 760     147.831  92.013 -44.886  1.00 37.38      A16S
ATOM  15895  O6   G   A 760     147.759  92.927 -45.731  1.00 37.38      A16S
ATOM  15896  C5   G   A 760     148.578  91.975 -43.677  1.00 37.38      A16S
ATOM  15897  N7   G   A 760     149.415  92.920 -43.103  1.00 37.38      A16S
ATOM  15898  C8   G   A 760     149.830  92.353 -42.005  1.00 37.38      A16S
ATOM  15899  C2* G   A 760     150.507  89.042 -41.352  1.00 42.94      A16S
ATOM  15900  O2* G   A 760     150.374  87.830 -40.642  1.00 42.94      A16S
ATOM  15901  C3* G   A 760     151.876  89.642 -41.136  1.00 42.94      A16S
ATOM  15902  O3* G   A 760     152.882  88.670 -41.155  1.00 42.94      A16S
ATOM  15903  P    G   A 761     153.989  88.738 -42.299  1.00 31.99      A16S
ATOM  15904  O1P G   A 761     154.679  87.428 -42.268  1.00 46.13      A16S
ATOM  15905  O2P G   A 761     154.772  89.994 -42.131  1.00 46.13      A16S
ATOM  15906  O5* G   A 761     153.160  88.819 -43.655  1.00 31.99      A16S
ATOM  15907  C5* G   A 761     152.440  87.684 -44.119  1.00 31.99      A16S
ATOM  15908  C4* G   A 761     151.689  88.013 -45.374  1.00 31.99      A16S
ATOM  15909  O4* G   A 761     150.836  89.152 -45.116  1.00 31.99      A16S
ATOM  15910  C1* G   A 761     150.764  89.969 -46.273  1.00 31.99      A16S
ATOM  15911  N9   G   A 761     151.351  91.262 -45.940  1.00 46.13      A16S
ATOM  15912  C4   G   A 761     151.369  92.384 -46.729  1.00 46.13      A16S
ATOM  15913  N3   G   A 761     150.860  92.484 -47.969  1.00 46.13      A16S
ATOM  15914  C2   G   A 761     151.017  93.695 -48.460  1.00 46.13      A16S
ATOM  15915  N2   G   A 761     150.576  93.973 -49.693  1.00 46.13      A16S
ATOM  15916  N1   G   A 761     151.625  94.728 -47.784  1.00 46.13      A16S
ATOM  15917  C6   G   A 761     152.174  94.639 -46.511  1.00 46.13      A16S
ATOM  15918  O6   G   A 761     152.734  95.623 -45.995  1.00 46.13      A16S
ATOM  15919  C5   G   A 761     152.007  93.348 -45.975  1.00 46.13      A16S
ATOM  15920  N7   G   A 761     152.397  92.836 -44.747  1.00 46.13      A16S
ATOM  15921  C8   G   A 761     151.991  91.599 -44.771  1.00 46.13      A16S
ATOM  15922  C2* G   A 761     151.548  89.265 -47.376  1.00 31.99      A16S
ATOM  15923  O2* G   A 761     150.685  88.446 -48.135  1.00 31.99      A16S
ATOM  15924  C3* G   A 761     152.526  88.439 -46.560  1.00 31.99      A16S
ATOM  15925  O3* G   A 761     153.011  87.346 -47.301  1.00 31.99      A16S
ATOM  15926  P    C   A 762     154.518  87.384 -47.845  1.00 44.68      A16S
ATOM  15927  O1P C   A 762     154.771  86.084 -48.522  1.00 30.87      A16S
ATOM  15928  O2P C   A 762     155.390  87.821 -46.705  1.00 30.87      A16S
ATOM  15929  O5* C   A 762     154.495  88.500 -48.973  1.00 44.68      A16S
ATOM  15930  C5* C   A 762     153.814  88.254 -50.198  1.00 44.68      A16S
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ATOM  15931  C4* C   A 762     153.793  89.496 -51.035  1.00 44.68      A16S
ATOM  15932  O4* C   A 762     153.060  90.536 -50.345  1.00 44.68      A16S
ATOM  15933  C1* C   A 762     153.641  91.794 -50.630  1.00 44.68      A16S
ATOM  15934  N1  C   A 762     154.173  92.354 -49.391  1.00 30.87      A16S
ATOM  15935  C6  C   A 762     154.362  91.568 -48.293  1.00 30.87      A16S
ATOM  15936  C2  C   A 762     154.502  93.710 -49.357  1.00 30.87      A16S
ATOM  15937  O2  C   A 762     154.311  94.407 -50.370  1.00 30.87      A16S
ATOM  15938  N3  C   A 762     155.021  94.229 -48.228  1.00 30.87      A16S
ATOM  15939  C4  C   A 762     155.203  93.450 -47.160  1.00 30.87      A16S
ATOM  15940  N4  C   A 762     155.709  94.006 -46.061  1.00 30.87      A16S
ATOM  15941  C5  C   A 762     154.871  92.067 -47.170  1.00 30.87      A16S
ATOM  15942  C2* C   A 762     154.792  91.558 -51.596  1.00 44.68      A16S
ATOM  15943  O2* C   A 762     154.341  91.748 -52.924  1.00 44.68      A16S
ATOM  15944  C3* C   A 762     155.146  90.120 -51.279  1.00 44.68      A16S
ATOM  15945  O3* C   A 762     155.835  89.509 -52.328  1.00 44.68      A16S
ATOM  15946  P   G   A 763     157.433  89.450 -52.273  1.00 37.34      A16S
ATOM  15947  O1P G   A 763     157.773  88.558 -53.419  1.00 24.85      A16S
ATOM  15948  O2P G   A 763     157.894  89.096 -50.904  1.00 24.85      A16S
ATOM  15949  O5* G   A 763     157.883  90.945 -52.599  1.00 37.34      A16S
ATOM  15950  C5* G   A 763     157.626  91.487 -53.893  1.00 37.34      A16S
ATOM  15951  C4* G   A 763     157.733  92.981 -53.882  1.00 37.34      A16S
ATOM  15952  O4* G   A 763     156.929  93.506 -52.804  1.00 37.34      A16S
ATOM  15953  C1* G   A 763     157.497  94.710 -52.326  1.00 37.34      A16S
ATOM  15954  N9  G   A 763     157.848  94.541 -50.921  1.00 24.85      A16S
ATOM  15955  C4  G   A 763     158.336  95.521 -50.096  1.00 24.85      A16S
ATOM  15956  N3  G   A 763     158.623  96.789 -50.459  1.00 24.85      A16S
ATOM  15957  C2  G   A 763     159.065  97.506 -49.445  1.00 24.85      A16S
ATOM  15958  N2  G   A 763     159.418  98.779 -49.647  1.00 24.85      A16S
ATOM  15959  N1  G   A 763     159.192  97.022 -48.164  1.00 24.85      A16S
ATOM  15960  C6  G   A 763     158.886  95.722 -47.766  1.00 24.85      A16S
ATOM  15961  O6  G   A 763     159.003  95.391 -46.577  1.00 24.85      A16S
ATOM  15962  C5  G   A 763     158.444  94.935 -48.857  1.00 24.85      A16S
ATOM  15963  N7  G   A 763     158.076  93.600 -48.912  1.00 24.85      A16S
ATOM  15964  C8  G   A 763     157.735  93.409 -50.155  1.00 24.85      A16S
ATOM  15965  C2* G   A 763     158.730  94.992 -53.166  1.00 37.34      A16S
ATOM  15966  O2* G   A 763     158.363  95.881 -54.210  1.00 37.34      A16S
ATOM  15967  C3* G   A 763     159.091  93.586 -53.621  1.00 37.34      A16S
ATOM  15968  O3* G   A 763     159.935  93.578 -54.748  1.00 37.34      A16S
ATOM  15969  P   C   A 764     161.502  93.308 -54.531  1.00 33.92      A16S
ATOM  15970  O1P C   A 764     162.131  93.048 -55.867  1.00 21.01      A16S
ATOM  15971  O2P C   A 764     161.606  92.284 -53.434  1.00 21.01      A16S
ATOM  15972  O5* C   A 764     162.053  94.700 -53.994  1.00 33.92      A16S
ATOM  15973  C5* C   A 764     161.961  95.861 -54.814  1.00 33.92      A16S
ATOM  15974  C4* C   A 764     162.391  97.069 -54.050  1.00 33.92      A16S
ATOM  15975  O4* C   A 764     161.512  97.245 -52.923  1.00 33.92      A16S
ATOM  15976  C1* C   A 764     162.230  97.795 -51.845  1.00 33.92      A16S
ATOM  15977  N1  C   A 764     162.176  96.859 -50.715  1.00 21.01      A16S
ATOM  15978  C6  C   A 764     161.795  95.561 -50.893  1.00 21.01      A16S
ATOM  15979  C2  C   A 764     162.526  97.321 -49.437  1.00 21.01      A16S
ATOM  15980  O2  C   A 764     162.890  98.501 -49.299  1.00 21.01      A16S
ATOM  15981  N3  C   A 764     162.470  96.472 -48.388  1.00 21.01      A16S
ATOM  15982  C4  C   A 764     162.104  95.210 -48.576  1.00 21.01      A16S
ATOM  15983  N4  C   A 764     162.086  94.410 -47.518  1.00 21.01      A16S
ATOM  15984  C5  C   A 764     161.745  94.711 -49.860  1.00 21.01      A16S
ATOM  15985  C2* C   A 764     163.658  98.027 -52.319  1.00 33.92      A16S
ATOM  15986  O2* C   A 764     163.762  99.338 -52.837  1.00 33.92      A16S
ATOM  15987  C3* C   A 764     163.772  97.012 -53.436  1.00 33.92      A16S
ATOM  15988  O3* C   A 764     164.793  97.386 -54.346  1.00 33.92      A16S
ATOM  15989  P   G   A 765     166.258  96.753 -54.178  1.00 32.27      A16S
ATOM  15990  O1P G   A 765     167.121  97.395 -55.201  1.00 28.26      A16S
ATOM  15991  O2P G   A 765     166.098  95.276 -54.157  1.00 28.26      A16S
ATOM  15992  O5* G   A 765     166.745  97.204 -52.723  1.00 32.27      A16S
ATOM  15993  C5* G   A 765     167.154  98.562 -52.449  1.00 32.27      A16S
ATOM  15994  C4* G   A 765     167.344  98.762 -50.964  1.00 32.27      A16S
ATOM  15995  O4* G   A 765     166.117  98.402 -50.284  1.00 32.27      A16S
ATOM  15996  C1* G   A 765     166.413  97.838 -49.018  1.00 32.27      A16S
ATOM  15997  N9  G   A 765     165.921  96.470 -48.994  1.00 28.26      A16S
ATOM  15998  C4  G   A 765     165.846  95.644 -47.902  1.00 28.26      A16S
ATOM  15999  N3  G   A 765     166.167  95.971 -46.639  1.00 28.26      A16S
ATOM  16000  C2  G   A 765     166.012  94.945 -45.818  1.00 28.26      A16S
ATOM  16001  N2  G   A 765     166.270  95.086 -44.516  1.00 28.26      A16S
ATOM  16002  N1  G   A 765     165.586  93.707 -46.212  1.00 28.26      A16S
ATOM  16003  C6  G   A 765     165.246  93.361 -47.507  1.00 28.26      A16S
ATOM  16004  O6  G   A 765     164.863  92.225 -47.756  1.00 28.26      A16S
ATOM  16005  C5  G   A 765     165.400  94.438 -48.388  1.00 28.26      A16S
ATOM  16006  N7  G   A 765     165.168  94.511 -49.749  1.00 28.26      A16S
ATOM  16007  C8  G   A 765     165.483  95.736 -50.064  1.00 28.26      A16S
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ATOM  16008  C2* G   A 765     167.928  97.853 -48.848  1.00 32.27      A16S
ATOM  16009  O2* G   A 765     168.285  99.003 -48.105  1.00 32.27      A16S
ATOM  16010  C3* G   A 765     168.402  97.897 -50.296  1.00 32.27      A16S
ATOM  16011  O3* G   A 765     169.688  98.488 -50.371  1.00 32.27      A16S
ATOM  16012  P    A   A 766     170.795  97.890 -51.369  1.00 24.05      A16S
ATOM  16013  O1P A   A 766     170.343  98.375 -52.700  1.00 10.77      A16S
ATOM  16014  O2P A   A 766     171.049  96.433 -51.140  1.00 10.77      A16S
ATOM  16015  O5* A   A 766     172.111  98.689 -50.970  1.00 24.05      A16S
ATOM  16016  C5* A   A 766     172.174 100.102 -51.174  1.00 24.05      A16S
ATOM  16017  C4* A   A 766     173.306 100.708 -50.390  1.00 24.05      A16S
ATOM  16018  O4* A   A 766     172.976 100.805 -48.989  1.00 24.05      A16S
ATOM  16019  C1* A   A 766     174.171 100.888 -48.244  1.00 24.05      A16S
ATOM  16020  N9   A   A 766     174.198  99.876 -47.196  1.00 10.77      A16S
ATOM  16021  C4   A   A 766     175.202  99.823 -46.267  1.00 10.77      A16S
ATOM  16022  N3   A   A 766     176.240 100.669 -46.162  1.00 10.77      A16S
ATOM  16023  C2   A   A 766     177.024 100.308 -45.170  1.00 10.77      A16S
ATOM  16024  N1   A   A 766     176.899  99.273 -44.338  1.00 10.77      A16S
ATOM  16025  C6   A   A 766     175.840  98.446 -44.476  1.00 10.77      A16S
ATOM  16026  N6   A   A 766     175.724  97.408 -43.642  1.00 10.77      A16S
ATOM  16027  C5   A   A 766     174.935  98.725 -45.483  1.00 10.77      A16S
ATOM  16028  N7   A   A 766     173.766  98.105 -45.885  1.00 10.77      A16S
ATOM  16029  C8   A   A 766     173.367  98.827 -46.906  1.00 10.77      A16S
ATOM  16030  C2* A   A 766     175.328 100.635 -49.196  1.00 24.05      A16S
ATOM  16031  O2* A   A 766     175.914 101.881 -49.498  1.00 24.05      A16S
ATOM  16032  C3* A   A 766     174.623  99.965 -50.365  1.00 24.05      A16S
ATOM  16033  O3* A   A 766     175.361 100.063 -51.572  1.00 24.05      A16S
ATOM  16034  P    A   A 767     176.123  98.755 -52.138  1.00 44.28      A16S
ATOM  16035  O1P A   A 767     176.840  99.180 -53.372  1.00 26.00      A16S
ATOM  16036  O2P A   A 767     175.154  97.627 -52.199  1.00 26.00      A16S
ATOM  16037  O5* A   A 767     177.180  98.394 -50.998  1.00 44.28      A16S
ATOM  16038  C5* A   A 767     178.185  99.343 -50.599  1.00 44.28      A16S
ATOM  16039  C4* A   A 767     179.004  98.795 -49.458  1.00 44.28      A16S
ATOM  16040  O4* A   A 767     178.237  98.796 -48.232  1.00 44.28      A16S
ATOM  16041  C1* A   A 767     178.585  97.673 -47.446  1.00 44.28      A16S
ATOM  16042  N9   A   A 767     177.394  96.841 -47.314  1.00 26.00      A16S
ATOM  16043  C4   A   A 767     177.116  95.900 -46.356  1.00 26.00      A16S
ATOM  16044  N3   A   A 767     177.865  95.561 -45.302  1.00 26.00      A16S
ATOM  16045  C2   A   A 767     177.271  94.601 -44.602  1.00 26.00      A16S
ATOM  16046  N1   A   A 767     176.105  93.987 -44.826  1.00 26.00      A16S
ATOM  16047  C6   A   A 767     175.391  94.353 -45.900  1.00 26.00      A16S
ATOM  16048  N6   A   A 767     174.240  93.738 -46.137  1.00 26.00      A16S
ATOM  16049  C5   A   A 767     175.901  95.358 -46.707  1.00 26.00      A16S
ATOM  16050  N7   A   A 767     175.412  95.956 -47.845  1.00 26.00      A16S
ATOM  16051  C8   A   A 767     176.329  96.831 -48.161  1.00 26.00      A16S
ATOM  16052  C2* A   A 767     179.704  96.937 -48.179  1.00 44.28      A16S
ATOM  16053  O2* A   A 767     180.939  97.421 -47.715  1.00 44.28      A16S
ATOM  16054  C3* A   A 767     179.461  97.361 -49.616  1.00 44.28      A16S
ATOM  16055  O3* A   A 767     180.627  97.282 -50.415  1.00 44.28      A16S
ATOM  16056  P    A   A 768     180.955  95.923 -51.192  1.00 21.25      A16S
ATOM  16057  O1P A   A 768     182.249  96.141 -51.886  1.00 29.70      A16S
ATOM  16058  O2P A   A 768     179.766  95.514 -51.977  1.00 29.70      A16S
ATOM  16059  O5* A   A 768     181.150  94.889 -50.000  1.00 21.25      A16S
ATOM  16060  C5* A   A 768     182.304  94.972 -49.158  1.00 21.25      A16S
ATOM  16061  C4* A   A 768     182.164  94.037 -47.999  1.00 21.25      A16S
ATOM  16062  O4* A   A 768     180.937  94.364 -47.319  1.00 21.25      A16S
ATOM  16063  C1* A   A 768     180.347  93.192 -46.790  1.00 21.25      A16S
ATOM  16064  N9   A   A 768     179.035  93.042 -47.395  1.00 29.70      A16S
ATOM  16065  C4   A   A 768     178.073  92.143 -47.022  1.00 29.70      A16S
ATOM  16066  N3   A   A 768     178.139  91.249 -46.026  1.00 29.70      A16S
ATOM  16067  C2   A   A 768     177.017  90.527 -45.973  1.00 29.70      A16S
ATOM  16068  N1   A   A 768     175.938  90.586 -46.758  1.00 29.70      A16S
ATOM  16069  C6   A   A 768     175.929  91.487 -47.762  1.00 29.70      A16S
ATOM  16070  N6   A   A 768     174.893  91.518 -48.589  1.00 29.70      A16S
ATOM  16071  C5   A   A 768     177.028  92.329 -47.896  1.00 29.70      A16S
ATOM  16072  N7   A   A 768     177.308  93.352 -48.786  1.00 29.70      A16S
ATOM  16073  C8   A   A 768     178.510  93.740 -48.448  1.00 29.70      A16S
ATOM  16074  C2* A   A 768     181.263  92.022 -47.126  1.00 21.25      A16S
ATOM  16075  O2* A   A 768     182.086  91.766 -45.999  1.00 21.25      A16S
ATOM  16076  C3* A   A 768     182.014  92.567 -48.337  1.00 21.25      A16S
ATOM  16077  O3* A   A 768     183.269  91.943 -48.539  1.00 21.25      A16S
ATOM  16078  P    G   A 769     183.436  90.883 -49.726  1.00 23.51      A16S
ATOM  16079  O1P G   A 769     184.802  90.320 -49.569  1.00 22.44      A16S
ATOM  16080  O2P G   A 769     183.029  91.512 -51.025  1.00 22.44      A16S
ATOM  16081  O5* G   A 769     182.390  89.744 -49.367  1.00 23.51      A16S
ATOM  16082  C5* G   A 769     182.542  89.010 -48.167  1.00 23.51      A16S
ATOM  16083  C4* G   A 769     181.305  88.214 -47.866  1.00 23.51      A16S
ATOM  16084  O4* G   A 769     180.152  89.091 -47.793  1.00 23.51      A16S
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ATOM  16085  C1* G   A 769     178.978  88.356 -48.114  1.00 23.51      A16S
ATOM  16086  N9  G   A 769     178.291  88.988 -49.233  1.00 22.44      A16S
ATOM  16087  C4  G   A 769     177.125  88.557 -49.815  1.00 22.44      A16S
ATOM  16088  N3  G   A 769     176.431  87.449 -49.480  1.00 22.44      A16S
ATOM  16089  C2  G   A 769     175.311  87.328 -50.188  1.00 22.44      A16S
ATOM  16090  N2  G   A 769     174.472  86.300 -49.948  1.00 22.44      A16S
ATOM  16091  N1  G   A 769     174.935  88.212 -51.167  1.00 22.44      A16S
ATOM  16092  C6  G   A 769     175.650  89.355 -51.524  1.00 22.44      A16S
ATOM  16093  O6  G   A 769     175.230  90.100 -52.412  1.00 22.44      A16S
ATOM  16094  C5  G   A 769     176.822  89.501 -50.761  1.00 22.44      A16S
ATOM  16095  N7  G   A 769     177.787  90.493 -50.795  1.00 22.44      A16S
ATOM  16096  C8  G   A 769     178.645  90.138 -49.881  1.00 22.44      A16S
ATOM  16097  C2* G   A 769     179.405  86.941 -48.445  1.00 23.51      A16S
ATOM  16098  O2* G   A 769     179.233  86.224 -47.231  1.00 23.51      A16S
ATOM  16099  C3* G   A 769     180.856  87.172 -48.870  1.00 23.51      A16S
ATOM  16100  O3* G   A 769     181.666  86.012 -48.869  1.00 23.51      A16S
ATOM  16101  P   C   A 770     182.130  85.388 -50.279  1.00 33.99      A16S
ATOM  16102  O1P C   A 770     183.272  84.455 -49.980  1.00 28.49      A16S
ATOM  16103  O2P C   A 770     182.308  86.493 -51.262  1.00 28.49      A16S
ATOM  16104  O5* C   A 770     180.865  84.541 -50.731  1.00 33.99      A16S
ATOM  16105  C5* C   A 770     180.300  83.597 -49.825  1.00 33.99      A16S
ATOM  16106  C4* C   A 770     179.004  83.046 -50.354  1.00 33.99      A16S
ATOM  16107  O4* C   A 770     177.955  84.036 -50.312  1.00 33.99      A16S
ATOM  16108  C1* C   A 770     177.011  83.756 -51.322  1.00 33.99      A16S
ATOM  16109  N1  C   A 770     176.946  84.904 -52.223  1.00 28.49      A16S
ATOM  16110  C6  C   A 770     177.848  85.924 -52.138  1.00 28.49      A16S
ATOM  16111  C2  C   A 770     175.947  84.933 -53.167  1.00 28.49      A16S
ATOM  16112  O2  C   A 770     175.152  83.975 -53.219  1.00 28.49      A16S
ATOM  16113  N3  C   A 770     175.864  85.988 -54.001  1.00 28.49      A16S
ATOM  16114  C4  C   A 770     176.741  86.979 -53.902  1.00 28.49      A16S
ATOM  16115  N4  C   A 770     176.619  87.999 -54.723  1.00 28.49      A16S
ATOM  16116  C5  C   A 770     177.778  86.969 -52.953  1.00 28.49      A16S
ATOM  16117  C2* C   A 770     177.484  82.516 -52.067  1.00 33.99      A16S
ATOM  16118  O2* C   A 770     176.882  81.389 -51.476  1.00 33.99      A16S
ATOM  16119  C3* C   A 770     178.975  82.552 -51.783  1.00 33.99      A16S
ATOM  16120  O3* C   A 770     179.546  81.273 -51.899  1.00 33.99      A16S
ATOM  16121  P   G   A 771     180.258  80.869 -53.263  1.00 41.21      A16S
ATOM  16122  O1P G   A 771     180.951  79.596 -52.961  1.00 32.25      A16S
ATOM  16123  O2P G   A 771     181.026  82.045 -53.746  1.00 32.25      A16S
ATOM  16124  O5* G   A 771     179.045  80.617 -54.261  1.00 41.21      A16S
ATOM  16125  C5* G   A 771     178.143  79.512 -54.054  1.00 41.21      A16S
ATOM  16126  C4* G   A 771     177.161  79.406 -55.197  1.00 41.21      A16S
ATOM  16127  O4* G   A 771     176.211  80.497 -55.140  1.00 41.21      A16S
ATOM  16128  C1* G   A 771     175.823  80.860 -56.451  1.00 41.21      A16S
ATOM  16129  N9  G   A 771     176.135  82.268 -56.653  1.00 32.25      A16S
ATOM  16130  C4  G   A 771     175.611  83.073 -57.625  1.00 32.25      A16S
ATOM  16131  N3  G   A 771     174.722  82.697 -58.560  1.00 32.25      A16S
ATOM  16132  C2  G   A 771     174.425  83.686 -59.373  1.00 32.25      A16S
ATOM  16133  N2  G   A 771     173.569  83.481 -60.375  1.00 32.25      A16S
ATOM  16134  N1  G   A 771     174.952  84.943 -59.266  1.00 32.25      A16S
ATOM  16135  C6  G   A 771     175.872  85.343 -58.306  1.00 32.25      A16S
ATOM  16136  O6  G   A 771     176.305  86.490 -58.307  1.00 32.25      A16S
ATOM  16137  C5  G   A 771     176.196  84.302 -57.438  1.00 32.25      A16S
ATOM  16138  N7  G   A 771     177.067  84.278 -56.364  1.00 32.25      A16S
ATOM  16139  C8  G   A 771     177.000  83.049 -55.928  1.00 32.25      A16S
ATOM  16140  C2* G   A 771     176.570  79.957 -57.430  1.00 41.21      A16S
ATOM  16141  O2* G   A 771     175.746  78.878 -57.813  1.00 41.21      A16S
ATOM  16142  C3* G   A 771     177.751  79.511 -56.588  1.00 41.21      A16S
ATOM  16143  O3* G   A 771     178.306  78.298 -57.040  1.00 41.21      A16S
ATOM  16144  P   U   A 772     179.585  78.349 -58.000  1.00 36.21      A16S
ATOM  16145  O1P U   A 772     180.094  76.958 -58.013  1.00 34.96      A16S
ATOM  16146  O2P U   A 772     180.481  79.456 -57.568  1.00 34.96      A16S
ATOM  16147  O5* U   A 772     178.967  78.755 -59.413  1.00 36.21      A16S
ATOM  16148  C5* U   A 772     178.043  77.873 -60.068  1.00 36.21      A16S
ATOM  16149  C4* U   A 772     177.538  78.480 -61.346  1.00 36.21      A16S
ATOM  16150  O4* U   A 772     176.632  79.570 -61.046  1.00 36.21      A16S
ATOM  16151  C1* U   A 772     176.764  80.579 -62.030  1.00 36.21      A16S
ATOM  16152  N1  U   A 772     177.237  81.806 -61.379  1.00 34.96      A16S
ATOM  16153  C6  U   A 772     177.978  81.757 -60.237  1.00 34.96      A16S
ATOM  16154  C2  U   A 772     176.931  83.016 -61.975  1.00 34.96      A16S
ATOM  16155  O2  U   A 772     176.259  83.108 -62.977  1.00 34.96      A16S
ATOM  16156  N3  U   A 772     177.441  84.120 -61.354  1.00 34.96      A16S
ATOM  16157  C4  U   A 772     178.205  84.143 -60.223  1.00 34.96      A16S
ATOM  16158  O4  U   A 772     178.620  85.223 -59.794  1.00 34.96      A16S
ATOM  16159  C5  U   A 772     178.463  82.852 -59.653  1.00 34.96      A16S
ATOM  16160  C2* U   A 772     177.800  80.104 -63.052  1.00 36.21      A16S
ATOM  16161  O2* U   A 772     177.202  79.560 -64.219  1.00 36.21      A16S
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ATOM  16162  C3* U   A 772     178.599  79.106 -62.226  1.00 36.21      A16S
ATOM  16163  O3* U   A 772     179.335  78.186 -63.016  1.00 36.21      A16S
ATOM  16164  P   G   A 773     180.834  78.566 -63.467  1.00 54.60      A16S
ATOM  16165  O1P G   A 773     181.351  77.377 -64.187  1.00 49.66      A16S
ATOM  16166  O2P G   A 773     181.585  79.095 -62.305  1.00 49.66      A16S
ATOM  16167  O5* G   A 773     180.638  79.769 -64.494  1.00 54.60      A16S
ATOM  16168  C5* G   A 773     179.843  79.576 -65.664  1.00 54.60      A16S
ATOM  16169  C4* G   A 773     179.624  80.872 -66.403  1.00 54.60      A16S
ATOM  16170  O4* G   A 773     178.743  81.752 -65.658  1.00 54.60      A16S
ATOM  16171  C1* G   A 773     178.992  83.100 -66.047  1.00 54.60      A16S
ATOM  16172  N9  G   A 773     179.351  83.908 -64.878  1.00 49.66      A16S
ATOM  16173  C4  G   A 773     179.304  85.277 -64.816  1.00 49.66      A16S
ATOM  16174  N3  G   A 773     178.877  86.094 -65.795  1.00 49.66      A16S
ATOM  16175  C2  G   A 773     178.980  87.365 -65.458  1.00 49.66      A16S
ATOM  16176  N2  G   A 773     178.596  88.314 -66.329  1.00 49.66      A16S
ATOM  16177  N1  G   A 773     179.466  87.798 -64.254  1.00 49.66      A16S
ATOM  16178  C6  G   A 773     179.918  86.974 -63.236  1.00 49.66      A16S
ATOM  16179  O6  G   A 773     180.359  87.468 -62.205  1.00 49.66      A16S
ATOM  16180  C5  G   A 773     179.804  85.608 -63.579  1.00 49.66      A16S
ATOM  16181  N7  G   A 773     180.132  84.470 -62.859  1.00 49.66      A16S
ATOM  16182  C8  G   A 773     179.837  83.485 -63.664  1.00 49.66      A16S
ATOM  16183  C2* G   A 773     180.150  83.075 -67.047  1.00 54.60      A16S
ATOM  16184  O2* G   A 773     179.673  83.085 -68.382  1.00 54.60      A16S
ATOM  16185  C3* G   A 773     180.819  81.753 -66.710  1.00 54.60      A16S
ATOM  16186  O3* G   A 773     181.622  81.328 -67.790  1.00 54.60      A16S
ATOM  16187  P   G   A 774     183.183  81.739 -67.811  1.00 64.64      A16S
ATOM  16188  O1P G   A 774     183.758  81.128 -69.044  1.00 42.16      A16S
ATOM  16189  O2P G   A 774     183.753  81.375 -66.473  1.00 42.16      A16S
ATOM  16190  O5* G   A 774     183.185  83.333 -67.990  1.00 64.64      A16S
ATOM  16191  C5* G   A 774     182.671  83.919 -69.201  1.00 64.64      A16S
ATOM  16192  C4* G   A 774     182.448  85.417 -69.067  1.00 64.64      A16S
ATOM  16193  O4* G   A 774     181.659  85.744 -67.891  1.00 64.64      A16S
ATOM  16194  C1* G   A 774     181.851  87.117 -67.569  1.00 64.64      A16S
ATOM  16195  N9  G   A 774     182.248  87.255 -66.172  1.00 42.16      A16S
ATOM  16196  C4  G   A 774     182.381  88.444 -65.485  1.00 42.16      A16S
ATOM  16197  N3  G   A 774     182.140  89.673 -65.974  1.00 42.16      A16S
ATOM  16198  C2  G   A 774     182.379  90.613 -65.077  1.00 42.16      A16S
ATOM  16199  N2  G   A 774     182.203  91.894 -65.391  1.00 42.16      A16S
ATOM  16200  N1  G   A 774     182.811  90.371 -63.808  1.00 42.16      A16S
ATOM  16201  C6  G   A 774     183.065  89.117 -63.282  1.00 42.16      A16S
ATOM  16202  O6  G   A 774     183.453  89.009 -62.122  1.00 42.16      A16S
ATOM  16203  C5  G   A 774     182.819  88.094 -64.230  1.00 42.16      A16S
ATOM  16204  N7  G   A 774     182.945  86.715 -64.119  1.00 42.16      A16S
ATOM  16205  C8  G   A 774     182.591  86.259 -65.292  1.00 42.16      A16S
ATOM  16206  C2* G   A 774     182.974  87.638 -68.457  1.00 64.64      A16S
ATOM  16207  O2* G   A 774     182.419  88.390 -69.512  1.00 64.64      A16S
ATOM  16208  C3* G   A 774     183.636  86.347 -68.923  1.00 64.64      A16S
ATOM  16209  O3* G   A 774     184.330  86.591 -70.126  1.00 64.64      A16S
ATOM  16210  P   G   A 775     185.872  87.034 -70.058  1.00 38.42      A16S
ATOM  16211  O1P G   A 775     186.335  87.277 -71.455  1.00 45.18      A16S
ATOM  16212  O2P G   A 775     186.611  86.082 -69.191  1.00 45.18      A16S
ATOM  16213  O5* G   A 775     185.863  88.427 -69.296  1.00 38.42      A16S
ATOM  16214  C5* G   A 775     185.532  89.629 -69.987  1.00 38.42      A16S
ATOM  16215  C4* G   A 775     185.622  90.800 -69.055  1.00 38.42      A16S
ATOM  16216  O4* G   A 775     184.852  90.495 -67.871  1.00 38.42      A16S
ATOM  16217  C1* G   A 775     185.427  91.125 -66.746  1.00 38.42      A16S
ATOM  16218  N9  G   A 775     185.765  90.119 -65.751  1.00 45.18      A16S
ATOM  16219  C4  G   A 775     186.121  90.373 -64.457  1.00 45.18      A16S
ATOM  16220  N3  G   A 775     186.197  91.592 -63.886  1.00 45.18      A16S
ATOM  16221  C2  G   A 775     186.567  91.517 -62.622  1.00 45.18      A16S
ATOM  16222  N2  G   A 775     186.664  92.639 -61.888  1.00 45.18      A16S
ATOM  16223  N1  G   A 775     186.864  90.337 -61.987  1.00 45.18      A16S
ATOM  16224  C6  G   A 775     186.808  89.079 -62.572  1.00 45.18      A16S
ATOM  16225  O6  G   A 775     187.131  88.091 -61.930  1.00 45.18      A16S
ATOM  16226  C5  G   A 775     186.382  89.144 -63.900  1.00 45.18      A16S
ATOM  16227  N7  G   A 775     186.169  88.131 -64.820  1.00 45.18      A16S
ATOM  16228  C8  G   A 775     185.806  88.756 -65.905  1.00 45.18      A16S
ATOM  16229  C2* G   A 775     186.648  91.884 -67.229  1.00 38.42      A16S
ATOM  16230  O2* G   A 775     186.219  93.200 -67.498  1.00 38.42      A16S
ATOM  16231  C3* G   A 775     186.991  91.121 -68.499  1.00 38.42      A16S
ATOM  16232  O3* G   A 775     187.770  91.886 -69.399  1.00 38.42      A16S
ATOM  16233  P   G   A 776     189.372  91.795 -69.319  1.00 43.47      A16S
ATOM  16234  O1P G   A 776     189.757  90.352 -69.323  1.00 38.29      A16S
ATOM  16235  O2P G   A 776     189.938  92.720 -70.328  1.00 38.29      A16S
ATOM  16236  O5* G   A 776     189.715  92.394 -67.888  1.00 43.47      A16S
ATOM  16237  C5* G   A 776     189.397  93.754 -67.577  1.00 43.47      A16S
ATOM  16238  C4* G   A 776     189.825  94.071 -66.177  1.00 43.47      A16S
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ATOM  16239  O4*  G   A 776     189.070   93.272  -65.239  1.00 43.47      A16S
ATOM  16240  C1*  G   A 776     189.876   92.949  -64.127  1.00 43.47      A16S
ATOM  16241  N9   G   A 776     189.933   91.503  -64.015  1.00 38.29      A16S
ATOM  16242  C4   G   A 776     190.074   90.781  -62.864  1.00 38.29      A16S
ATOM  16243  N3   G   A 776     190.185   91.286  -61.623  1.00 38.29      A16S
ATOM  16244  C2   G   A 776     190.306   90.330  -60.720  1.00 38.29      A16S
ATOM  16245  N2   G   A 776     190.417   90.640  -59.416  1.00 38.29      A16S
ATOM  16246  N1   G   A 776     190.322   88.998  -61.024  1.00 38.29      A16S
ATOM  16247  C6   G   A 776     190.204   88.471  -62.297  1.00 38.29      A16S
ATOM  16248  O6   G   A 776     190.219   87.258  -62.462  1.00 38.29      A16S
ATOM  16249  C5   G   A 776     190.074   89.467  -63.257  1.00 38.29      A16S
ATOM  16250  N7   G   A 776     189.938   89.363  -64.628  1.00 38.29      A16S
ATOM  16251  C8   G   A 776     189.857   90.597  -65.036  1.00 38.29      A16S
ATOM  16252  C2*  G   A 776     191.254   93.558  -64.355  1.00 43.47      A16S
ATOM  16253  O2*  G   A 776     191.330   94.746  -63.585  1.00 43.47      A16S
ATOM  16254  C3*  G   A 776     191.260   93.726  -65.875  1.00 43.47      A16S
ATOM  16255  O3*  G   A 776     192.102   94.745  -66.377  1.00 43.47      A16S
ATOM  16256  P    A   A 777     193.653   94.439  -66.662  1.00 31.55      A16S
ATOM  16257  O1P  A   A 777     194.021   93.146  -66.017  1.00 46.68      A16S
ATOM  16258  O2P  A   A 777     193.894   94.621  -68.131  1.00 46.68      A16S
ATOM  16259  O5*  A   A 777     194.327   95.617  -65.819  1.00 31.55      A16S
ATOM  16260  C5*  A   A 777     195.147   96.604  -66.454  1.00 31.55      A16S
ATOM  16261  C4*  A   A 777     194.798   98.007  -65.993  1.00 31.55      A16S
ATOM  16262  O4*  A   A 777     193.395   98.293  -66.231  1.00 31.55      A16S
ATOM  16263  C1*  A   A 777     192.988   99.347  -65.381  1.00 31.55      A16S
ATOM  16264  N9   A   A 777     191.934   98.875  -64.489  1.00 46.68      A16S
ATOM  16265  C4   A   A 777     191.279   99.674  -63.583  1.00 46.68      A16S
ATOM  16266  N3   A   A 777     191.438  100.997  -63.402  1.00 46.68      A16S
ATOM  16267  C2   A   A 777     190.679  101.426  -62.401  1.00 46.68      A16S
ATOM  16268  N1   A   A 777     189.847  100.736  -61.617  1.00 46.68      A16S
ATOM  16269  C6   A   A 777     189.713   99.409  -61.827  1.00 46.68      A16S
ATOM  16270  N6   A   A 777     188.897   98.715  -61.036  1.00 46.68      A16S
ATOM  16271  C5   A   A 777     190.454   98.833  -62.867  1.00 46.68      A16S
ATOM  16272  N7   A   A 777     190.547   97.531  -63.340  1.00 46.68      A16S
ATOM  16273  C8   A   A 777     191.429   97.612  -64.308  1.00 46.68      A16S
ATOM  16274  C2*  A   A 777     194.193   99.722  -64.525  1.00 31.55      A16S
ATOM  16275  O2*  A   A 777     194.853  100.784  -65.166  1.00 31.55      A16S
ATOM  16276  C3*  A   A 777     195.011   98.441  -64.552  1.00 31.55      A16S
ATOM  16277  O3*  A   A 777     196.371   98.735  -64.238  1.00 31.55      A16S
ATOM  16278  P    G   A 778     196.928   98.450  -62.744  1.00 32.93      A16S
ATOM  16279  O1P  G   A 778     198.374   98.771  -62.703  1.00 31.80      A16S
ATOM  16280  O2P  G   A 778     196.466   97.114  -62.286  1.00 31.80      A16S
ATOM  16281  O5*  G   A 778     196.197   99.524  -61.828  1.00 32.93      A16S
ATOM  16282  C5*  G   A 778     196.484  100.934  -61.924  1.00 32.93      A16S
ATOM  16283  C4*  G   A 778     195.598  101.693  -60.962  1.00 32.93      A16S
ATOM  16284  O4*  G   A 778     194.214  101.523  -61.363  1.00 32.93      A16S
ATOM  16285  C1*  G   A 778     193.408  101.285  -60.230  1.00 32.93      A16S
ATOM  16286  N9   G   A 778     192.951   99.903  -60.289  1.00 31.80      A16S
ATOM  16287  C4   G   A 778     191.934   99.353  -59.567  1.00 31.80      A16S
ATOM  16288  N3   G   A 778     191.162   99.999  -58.685  1.00 31.80      A16S
ATOM  16289  C2   G   A 778     190.259   99.206  -58.151  1.00 31.80      A16S
ATOM  16290  N2   G   A 778     189.391   99.689  -57.258  1.00 31.80      A16S
ATOM  16291  N1   G   A 778     190.128   97.881  -58.452  1.00 31.80      A16S
ATOM  16292  C6   G   A 778     190.902   97.193  -59.365  1.00 31.80      A16S
ATOM  16293  O6   G   A 778     190.676   95.991  -59.581  1.00 31.80      A16S
ATOM  16294  C5   G   A 778     191.882   98.035  -59.950  1.00 31.80      A16S
ATOM  16295  N7   G   A 778     192.849   97.763  -60.904  1.00 31.80      A16S
ATOM  16296  C8   G   A 778     193.458   98.899  -61.071  1.00 31.80      A16S
ATOM  16297  C2*  G   A 778     194.276  101.523  -59.005  1.00 32.93      A16S
ATOM  16298  O2*  G   A 778     194.231  102.892  -58.671  1.00 32.93      A16S
ATOM  16299  C3*  G   A 778     195.644  101.168  -59.538  1.00 32.93      A16S
ATOM  16300  O3*  G   A 778     196.642  101.806  -58.784  1.00 32.93      A16S
ATOM  16301  P    C   A 779     197.216  101.080  -57.482  1.00 24.21      A16S
ATOM  16302  O1P  C   A 779     198.157  102.028  -56.831  1.00 34.28      A16S
ATOM  16303  O2P  C   A 779     197.685   99.715  -57.865  1.00 34.28      A16S
ATOM  16304  O5*  C   A 779     195.931  100.873  -56.563  1.00 24.21      A16S
ATOM  16305  C5*  C   A 779     195.169  101.982  -56.027  1.00 24.21      A16S
ATOM  16306  C4*  C   A 779     193.976  101.456  -55.258  1.00 24.21      A16S
ATOM  16307  O4*  C   A 779     193.142  100.682  -56.156  1.00 24.21      A16S
ATOM  16308  C1*  C   A 779     192.557   99.609  -55.456  1.00 24.21      A16S
ATOM  16309  N1   C   A 779     192.815   98.366  -56.185  1.00 34.28      A16S
ATOM  16310  C6   C   A 779     193.857   98.264  -57.049  1.00 34.28      A16S
ATOM  16311  C2   C   A 779     191.969   97.286  -55.984  1.00 34.28      A16S
ATOM  16312  O2   C   A 779     191.038   97.396  -55.185  1.00 34.28      A16S
ATOM  16313  N3   C   A 779     192.178   96.150  -56.656  1.00 34.28      A16S
ATOM  16314  C4   C   A 779     193.193   96.060  -57.496  1.00 34.28      A16S
ATOM  16315  N4   C   A 779     193.363   94.915  -58.138  1.00 34.28      A16S
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ATOM  16316  C5  C   A 779     194.079  97.138 -57.718  1.00 34.28      A16S
ATOM  16317  C2* C   A 779     193.070  99.619 -54.021  1.00 24.21      A16S
ATOM  16318  O2* C   A 779     192.078 100.176 -53.192  1.00 24.21      A16S
ATOM  16319  C3* C   A 779     194.316 100.484 -54.139  1.00 24.21      A16S
ATOM  16320  O3* C   A 779     194.632 101.164 -52.924  1.00 24.21      A16S
ATOM  16321  P   A   A 780     195.778 100.565 -51.965  1.00 17.30      A16S
ATOM  16322  O1P A   A 780     196.054 101.518 -50.848  1.00 46.70      A16S
ATOM  16323  O2P A   A 780     196.896 100.169 -52.878  1.00 46.70      A16S
ATOM  16324  O5* A   A 780     195.130  99.217 -51.399  1.00 17.30      A16S
ATOM  16325  C5* A   A 780     193.949  99.245 -50.602  1.00 17.30      A16S
ATOM  16326  C4* A   A 780     193.358  97.865 -50.490  1.00 17.30      A16S
ATOM  16327  O4* A   A 780     192.970  97.401 -51.796  1.00 17.30      A16S
ATOM  16328  C1* A   A 780     193.142  95.999 -51.873  1.00 17.30      A16S
ATOM  16329  N9  A   A 780     194.026  95.714 -52.994  1.00 46.70      A16S
ATOM  16330  C4  A   A 780     193.930  94.647 -53.841  1.00 46.70      A16S
ATOM  16331  N3  A   A 780     193.004  93.683 -53.827  1.00 46.70      A16S
ATOM  16332  C2  A   A 780     193.241  92.799 -54.781  1.00 46.70      A16S
ATOM  16333  N1  A   A 780     194.230  92.766 -55.671  1.00 46.70      A16S
ATOM  16334  C6  A   A 780     195.146  93.753 -55.651  1.00 46.70      A16S
ATOM  16335  N6  A   A 780     196.147  93.720 -56.525  1.00 46.70      A16S
ATOM  16336  C5  A   A 780     194.997  94.755 -54.704  1.00 46.70      A16S
ATOM  16337  N7  A   A 780     195.742  95.891 -54.429  1.00 46.70      A16S
ATOM  16338  C8  A   A 780     195.122  96.426 -53.409  1.00 46.70      A16S
ATOM  16339  C2* A   A 780     193.701  95.507 -50.536  1.00 17.30      A16S
ATOM  16340  O2* A   A 780     192.674  94.955 -49.755  1.00 17.30      A16S
ATOM  16341  C3* A   A 780     194.265  96.786 -49.933  1.00 17.30      A16S
ATOM  16342  O3* A   A 780     194.150  96.777 -48.522  1.00 17.30      A16S
ATOM  16343  P   A   A 781     194.987  95.722 -47.652  1.00 13.98      A16S
ATOM  16344  O1P A   A 781     194.937  96.177 -46.237  1.00 41.66      A16S
ATOM  16345  O2P A   A 781     196.307  95.505 -48.297  1.00 41.66      A16S
ATOM  16346  O5* A   A 781     194.141  94.384 -47.751  1.00 13.98      A16S
ATOM  16347  C5* A   A 781     194.294  93.370 -46.765  1.00 13.98      A16S
ATOM  16348  C4* A   A 781     192.994  93.148 -46.046  1.00 13.98      A16S
ATOM  16349  O4* A   A 781     191.921  92.958 -46.994  1.00 13.98      A16S
ATOM  16350  C1* A   A 781     191.091  91.895 -46.575  1.00 13.98      A16S
ATOM  16351  N9  A   A 781     191.198  90.819 -47.554  1.00 41.66      A16S
ATOM  16352  C4  A   A 781     190.598  89.593 -47.443  1.00 41.66      A16S
ATOM  16353  N3  A   A 781     189.823  89.155 -46.432  1.00 41.66      A16S
ATOM  16354  C2  A   A 781     189.410  87.918 -46.670  1.00 41.66      A16S
ATOM  16355  N1  A   A 781     189.657  87.132 -47.724  1.00 41.66      A16S
ATOM  16356  C6  A   A 781     190.438  87.613 -48.718  1.00 41.66      A16S
ATOM  16357  N6  A   A 781     190.678  86.843 -49.775  1.00 41.66      A16S
ATOM  16358  C5  A   A 781     190.948  88.900 -48.582  1.00 41.66      A16S
ATOM  16359  N7  A   A 781     191.767  89.667 -49.394  1.00 41.66      A16S
ATOM  16360  C8  A   A 781     191.886  90.793 -48.742  1.00 41.66      A16S
ATOM  16361  C2* A   A 781     191.568  91.440 -45.201  1.00 13.98      A16S
ATOM  16362  O2* A   A 781     190.751  92.053 -44.230  1.00 13.98      A16S
ATOM  16363  C3* A   A 781     193.022  91.889 -45.217  1.00 13.98      A16S
ATOM  16364  O3* A   A 781     193.514  92.225 -43.946  1.00 13.98      A16S
ATOM  16365  P   A   A 782     194.960  91.733 -43.518  1.00 27.27      A16S
ATOM  16366  O1P A   A 782     195.023  91.789 -42.037  1.00 41.09      A16S
ATOM  16367  O2P A   A 782     195.919  92.538 -44.323  1.00 41.09      A16S
ATOM  16368  O5* A   A 782     194.965  90.210 -43.979  1.00 27.27      A16S
ATOM  16369  C5* A   A 782     193.958  89.317 -43.518  1.00 27.27      A16S
ATOM  16370  C4* A   A 782     193.922  88.066 -44.362  1.00 27.27      A16S
ATOM  16371  O4* A   A 782     193.467  88.358 -45.704  1.00 27.27      A16S
ATOM  16372  C1* A   A 782     194.048  87.439 -46.616  1.00 27.27      A16S
ATOM  16373  N9  A   A 782     194.845  88.179 -47.585  1.00 41.09      A16S
ATOM  16374  C4  A   A 782     195.332  87.698 -48.775  1.00 41.09      A16S
ATOM  16375  N3  A   A 782     195.189  86.461 -49.278  1.00 41.09      A16S
ATOM  16376  C2  A   A 782     195.796  86.363 -50.460  1.00 41.09      A16S
ATOM  16377  N1  A   A 782     196.473  87.290 -51.145  1.00 41.09      A16S
ATOM  16378  C6  A   A 782     196.595  88.525 -50.609  1.00 41.09      A16S
ATOM  16379  N6  A   A 782     197.265  89.460 -51.287  1.00 41.09      A16S
ATOM  16380  C5  A   A 782     196.004  88.755 -49.359  1.00 41.09      A16S
ATOM  16381  N7  A   A 782     195.955  89.877 -48.546  1.00 41.09      A16S
ATOM  16382  C8  A   A 782     195.259  89.483 -47.509  1.00 41.09      A16S
ATOM  16383  C2* A   A 782     194.928  86.498 -45.815  1.00 27.27      A16S
ATOM  16384  O2* A   A 782     194.156  85.363 -45.511  1.00 27.27      A16S
ATOM  16385  C3* A   A 782     195.230  87.337 -44.584  1.00 27.27      A16S
ATOM  16386  O3* A   A 782     195.592  86.540 -43.478  1.00 27.27      A16S
ATOM  16387  P   C   A 783     197.088  86.636 -42.915  1.00 42.18      A16S
ATOM  16388  O1P C   A 783     197.264  85.555 -41.888  1.00 29.20      A16S
ATOM  16389  O2P C   A 783     197.339  88.064 -42.566  1.00 29.20      A16S
ATOM  16390  O5* C   A 783     197.999  86.307 -44.171  1.00 42.18      A16S
ATOM  16391  C5* C   A 783     197.945  85.019 -44.775  1.00 42.18      A16S
ATOM  16392  C4* C   A 783     198.579  85.062 -46.131  1.00 42.18      A16S
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ATOM  16393  O4*  C   A 783     197.932  86.091 -46.921  1.00 42.18      A16S
ATOM  16394  C1*  C   A 783     198.859  86.644 -47.828  1.00 42.18      A16S
ATOM  16395  N1   C   A 783     198.926  88.089 -47.617  1.00 29.20      A16S
ATOM  16396  C6   C   A 783     198.455  88.667 -46.476  1.00 29.20      A16S
ATOM  16397  C2   C   A 783     199.477  88.869 -48.622  1.00 29.20      A16S
ATOM  16398  O2   C   A 783     199.918  88.304 -49.625  1.00 29.20      A16S
ATOM  16399  N3   C   A 783     199.524  90.208 -48.480  1.00 29.20      A16S
ATOM  16400  C4   C   A 783     199.061  90.767 -47.371  1.00 29.20      A16S
ATOM  16401  N4   C   A 783     199.139  92.083 -47.263  1.00 29.20      A16S
ATOM  16402  C5   C   A 783     198.501  89.994 -46.314  1.00 29.20      A16S
ATOM  16403  C2*  C   A 783     200.201  85.966 -47.598  1.00 42.18      A16S
ATOM  16404  O2*  C   A 783     200.333  84.941 -48.564  1.00 42.18      A16S
ATOM  16405  C3*  C   A 783     200.037  85.458 -46.171  1.00 42.18      A16S
ATOM  16406  O3*  C   A 783     200.886  84.376 -45.865  1.00 42.18      A16S
ATOM  16407  P    C   A 784     202.345  84.679 -45.284  1.00 38.36      A16S
ATOM  16408  O1P  C   A 784     203.004  83.373 -45.067  1.00 41.35      A16S
ATOM  16409  O2P  C   A 784     202.251  85.655 -44.169  1.00 41.35      A16S
ATOM  16410  O5*  C   A 784     203.074  85.377 -46.503  1.00 38.36      A16S
ATOM  16411  C5*  C   A 784     203.352  84.626 -47.687  1.00 38.36      A16S
ATOM  16412  C4*  C   A 784     204.301  85.386 -48.559  1.00 38.36      A16S
ATOM  16413  O4*  C   A 784     203.622  86.509 -49.171  1.00 38.36      A16S
ATOM  16414  C1*  C   A 784     204.499  87.608 -49.236  1.00 38.36      A16S
ATOM  16415  N1   C   A 784     203.883  88.742 -48.537  1.00 41.35      A16S
ATOM  16416  C6   C   A 784     203.216  88.572 -47.359  1.00 41.35      A16S
ATOM  16417  C2   C   A 784     203.994  90.009 -49.106  1.00 41.35      A16S
ATOM  16418  O2   C   A 784     204.584  90.126 -50.180  1.00 41.35      A16S
ATOM  16419  N3   C   A 784     203.452  91.070 -48.482  1.00 41.35      A16S
ATOM  16420  C4   C   A 784     202.806  90.898 -47.333  1.00 41.35      A16S
ATOM  16421  N4   C   A 784     202.288  91.972 -46.747  1.00 41.35      A16S
ATOM  16422  C5   C   A 784     202.664  89.612 -46.729  1.00 41.35      A16S
ATOM  16423  C2*  C   A 784     205.848  87.176 -48.659  1.00 38.36      A16S
ATOM  16424  O2*  C   A 784     206.681  86.787 -49.728  1.00 38.36      A16S
ATOM  16425  C3*  C   A 784     205.457  85.988 -47.791  1.00 38.36      A16S
ATOM  16426  O3*  C   A 784     206.489  85.020 -47.634  1.00 38.36      A16S
ATOM  16427  P    G   A 785     207.694  85.302 -46.608  1.00 38.15      A16S
ATOM  16428  O1P  G   A 785     208.662  84.192 -46.774  1.00 37.35      A16S
ATOM  16429  O2P  G   A 785     207.167  85.626 -45.249  1.00 37.35      A16S
ATOM  16430  O5*  G   A 785     208.389  86.581 -47.240  1.00 38.15      A16S
ATOM  16431  C5*  G   A 785     208.911  87.628 -46.428  1.00 38.15      A16S
ATOM  16432  C4*  G   A 785     209.313  88.779 -47.306  1.00 38.15      A16S
ATOM  16433  O4*  G   A 785     208.138  89.350 -47.931  1.00 38.15      A16S
ATOM  16434  C1*  G   A 785     208.323  90.744 -48.095  1.00 38.15      A16S
ATOM  16435  N9   G   A 785     207.301  91.446 -47.327  1.00 37.35      A16S
ATOM  16436  C4   G   A 785     207.139  92.805 -47.278  1.00 37.35      A16S
ATOM  16437  N3   G   A 785     207.863  93.712 -47.969  1.00 37.35      A16S
ATOM  16438  C2   G   A 785     207.516  94.948 -47.675  1.00 37.35      A16S
ATOM  16439  N2   G   A 785     208.144  95.968 -48.260  1.00 37.35      A16S
ATOM  16440  N1   G   A 785     206.531  95.266 -46.780  1.00 37.35      A16S
ATOM  16441  C6   G   A 785     205.779  94.343 -46.056  1.00 37.35      A16S
ATOM  16442  O6   G   A 785     204.930  94.734 -45.254  1.00 37.35      A16S
ATOM  16443  C5   G   A 785     206.140  93.020 -46.364  1.00 37.35      A16S
ATOM  16444  N7   G   A 785     205.654  91.821 -45.874  1.00 37.35      A16S
ATOM  16445  C8   G   A 785     206.363  90.914 -46.483  1.00 37.35      A16S
ATOM  16446  C2*  G   A 785     209.706  91.096 -47.541  1.00 38.15      A16S
ATOM  16447  O2*  G   A 785     210.681  91.166 -48.558  1.00 38.15      A16S
ATOM  16448  C3*  G   A 785     209.955  89.944 -46.593  1.00 38.15      A16S
ATOM  16449  O3*  G   A 785     211.327  89.742 -46.392  1.00 38.15      A16S
ATOM  16450  P    G   A 786     212.000  90.312 -45.065  1.00 23.82      A16S
ATOM  16451  O1P  G   A 786     213.422  89.883 -45.060  1.00 35.61      A16S
ATOM  16452  O2P  G   A 786     211.120  89.924 -43.933  1.00 35.61      A16S
ATOM  16453  O5*  G   A 786     211.949  91.887 -45.289  1.00 23.82      A16S
ATOM  16454  C5*  G   A 786     212.775  92.468 -46.289  1.00 23.82      A16S
ATOM  16455  C4*  G   A 786     212.613  93.955 -46.322  1.00 23.82      A16S
ATOM  16456  O4*  G   A 786     211.255  94.274 -46.684  1.00 23.82      A16S
ATOM  16457  C1*  G   A 786     210.912  95.529 -46.148  1.00 23.82      A16S
ATOM  16458  N9   G   A 786     209.778  95.371 -45.247  1.00 35.61      A16S
ATOM  16459  C4   G   A 786     209.053  96.394 -44.718  1.00 35.61      A16S
ATOM  16460  N3   G   A 786     209.267  97.699 -44.949  1.00 35.61      A16S
ATOM  16461  C2   G   A 786     208.411  98.458 -44.313  1.00 35.61      A16S
ATOM  16462  N2   G   A 786     208.490  99.792 -44.446  1.00 35.61      A16S
ATOM  16463  N1   G   A 786     207.414  97.969 -43.509  1.00 35.61      A16S
ATOM  16464  C6   G   A 786     207.176  96.626 -43.264  1.00 35.61      A16S
ATOM  16465  O6   G   A 786     206.244  96.292 -42.537  1.00 35.61      A16S
ATOM  16466  C5   G   A 786     208.097  95.805 -43.937  1.00 35.61      A16S
ATOM  16467  N7   G   A 786     208.222  94.426 -43.964  1.00 35.61      A16S
ATOM  16468  C8   G   A 786     209.233  94.213 -44.756  1.00 35.61      A16S
ATOM  16469  C2*  G   A 786     212.128  96.044 -45.385  1.00 23.82      A16S
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ATOM  16470  O2*  G   A 786     212.889  96.880 -46.238  1.00 23.82      A16S
ATOM  16471  C3*  G   A 786     212.853  94.751 -45.055  1.00 23.82      A16S
ATOM  16472  O3*  G   A 786     214.223  95.023 -44.822  1.00 23.82      A16S
ATOM  16473  P    A   A 787     214.797  95.038 -43.312  1.00 46.24      A16S
ATOM  16474  O1P  A   A 787     216.244  95.352 -43.486  1.00 38.05      A16S
ATOM  16475  O2P  A   A 787     214.403  93.772 -42.647  1.00 38.05      A16S
ATOM  16476  O5*  A   A 787     214.072  96.260 -42.574  1.00 46.24      A16S
ATOM  16477  C5*  A   A 787     214.472  97.614 -42.855  1.00 46.24      A16S
ATOM  16478  C4*  A   A 787     213.442  98.618 -42.371  1.00 46.24      A16S
ATOM  16479  O4*  A   A 787     212.120  98.234 -42.813  1.00 46.24      A16S
ATOM  16480  C1*  A   A 787     211.151  98.758 -41.927  1.00 46.24      A16S
ATOM  16481  N9   A   A 787     210.321  97.673 -41.410  1.00 38.05      A16S
ATOM  16482  C4   A   A 787     209.175  97.856 -40.679  1.00 38.05      A16S
ATOM  16483  N3   A   A 787     208.627  99.025 -40.308  1.00 38.05      A16S
ATOM  16484  C2   A   A 787     207.525  98.816 -39.608  1.00 38.05      A16S
ATOM  16485  N1   A   A 787     206.942  97.663 -39.275  1.00 38.05      A16S
ATOM  16486  C6   A   A 787     207.509  96.510 -39.683  1.00 38.05      A16S
ATOM  16487  N6   A   A 787     206.902  95.358 -39.396  1.00 38.05      A16S
ATOM  16488  C5   A   A 787     208.698  96.593 -40.406  1.00 38.05      A16S
ATOM  16489  N7   A   A 787     209.534  95.624 -40.941  1.00 38.05      A16S
ATOM  16490  C8   A   A 787     210.477  96.314 -41.529  1.00 38.05      A16S
ATOM  16491  C2*  A   A 787     211.884  99.494 -40.817  1.00 46.24      A16S
ATOM  16492  O2*  A   A 787     211.858 100.854 -41.179  1.00 46.24      A16S
ATOM  16493  C3*  A   A 787     213.275  98.865 -40.881  1.00 46.24      A16S
ATOM  16494  O3*  A   A 787     214.253  99.788 -40.413  1.00 46.24      A16S
ATOM  16495  P    U   A 788     214.694  99.777 -38.869  1.00 50.26      A16S
ATOM  16496  O1P  U   A 788     215.675 100.874 -38.700  1.00 42.27      A16S
ATOM  16497  O2P  U   A 788     215.049  98.388 -38.472  1.00 42.27      A16S
ATOM  16498  O5*  U   A 788     213.376 100.169 -38.072  1.00 50.26      A16S
ATOM  16499  C5*  U   A 788     212.857 101.511 -38.077  1.00 50.26      A16S
ATOM  16500  C4*  U   A 788     211.667 101.593 -37.149  1.00 50.26      A16S
ATOM  16501  O4*  U   A 788     210.583 100.792 -37.681  1.00 50.26      A16S
ATOM  16502  C1*  U   A 788     209.910 100.133 -36.627  1.00 50.26      A16S
ATOM  16503  N1   U   A 788     209.996  98.688 -36.865  1.00 42.27      A16S
ATOM  16504  C6   U   A 788     210.998  98.165 -37.631  1.00 42.27      A16S
ATOM  16505  C2   U   A 788     209.038  97.869 -36.300  1.00 42.27      A16S
ATOM  16506  O2   U   A 788     208.119  98.296 -35.621  1.00 42.27      A16S
ATOM  16507  N3   U   A 788     209.191  96.527 -36.568  1.00 42.27      A16S
ATOM  16508  C4   U   A 788     210.178  95.944 -37.339  1.00 42.27      A16S
ATOM  16509  O4   U   A 788     210.194  94.723 -37.504  1.00 42.27      A16S
ATOM  16510  C5   U   A 788     211.115  96.860 -37.884  1.00 42.27      A16S
ATOM  16511  C2*  U   A 788     210.544 100.578 -35.309  1.00 50.26      A16S
ATOM  16512  O2*  U   A 788     209.788 101.645 -34.772  1.00 50.26      A16S
ATOM  16513  C3*  U   A 788     211.926 101.032 -35.759  1.00 50.26      A16S
ATOM  16514  O3*  U   A 788     212.466 102.042 -34.902  1.00 50.26      A16S
ATOM  16515  P    U   A 789     213.461 101.629 -33.711  1.00 49.96      A16S
ATOM  16516  O1P  U   A 789     213.841 102.883 -33.018  1.00 59.98      A16S
ATOM  16517  O2P  U   A 789     214.514 100.731 -34.244  1.00 59.98      A16S
ATOM  16518  O5*  U   A 789     212.553 100.748 -32.750  1.00 49.96      A16S
ATOM  16519  C5*  U   A 789     211.363 101.291 -32.179  1.00 49.96      A16S
ATOM  16520  C4*  U   A 789     210.594 100.218 -31.461  1.00 49.96      A16S
ATOM  16521  O4*  U   A 789     209.980  99.314 -32.406  1.00 49.96      A16S
ATOM  16522  C1*  U   A 789     209.867  98.031 -31.826  1.00 49.96      A16S
ATOM  16523  N1   U   A 789     210.458  97.033 -32.731  1.00 59.98      A16S
ATOM  16524  C6   U   A 789     211.308  97.389 -33.748  1.00 59.98      A16S
ATOM  16525  C2   U   A 789     210.124  95.710 -32.524  1.00 59.98      A16S
ATOM  16526  O2   U   A 789     209.374  95.343 -31.642  1.00 59.98      A16S
ATOM  16527  N3   U   A 789     210.701  94.824 -33.390  1.00 59.98      A16S
ATOM  16528  C4   U   A 789     211.553  95.109 -34.420  1.00 59.98      A16S
ATOM  16529  O4   U   A 789     211.992  94.188 -35.110  1.00 59.98      A16S
ATOM  16530  C5   U   A 789     211.851  96.495 -34.578  1.00 59.98      A16S
ATOM  16531  C2*  U   A 789     210.501  98.080 -30.438  1.00 49.96      A16S
ATOM  16532  O2*  U   A 789     209.448  98.204 -29.500  1.00 49.96      A16S
ATOM  16533  C3*  U   A 789     211.393  99.318 -30.541  1.00 49.96      A16S
ATOM  16534  O3*  U   A 789     211.639  99.957 -29.284  1.00 49.96      A16S
ATOM  16535  P    A   A 790     212.973  99.605 -28.459  1.00 53.07      A16S
ATOM  16536  O1P  A   A 790     212.722  99.971 -27.040  1.00 69.34      A16S
ATOM  16537  O2P  A   A 790     214.145 100.184 -29.170  1.00 69.34      A16S
ATOM  16538  O5*  A   A 790     213.027  98.018 -28.556  1.00 53.07      A16S
ATOM  16539  C5*  A   A 790     214.150  97.287 -28.071  1.00 53.07      A16S
ATOM  16540  C4*  A   A 790     213.680  96.072 -27.316  1.00 53.07      A16S
ATOM  16541  O4*  A   A 790     212.980  96.484 -26.119  1.00 53.07      A16S
ATOM  16542  C1*  A   A 790     211.908  95.601 -25.867  1.00 53.07      A16S
ATOM  16543  N9   A   A 790     210.684  96.397 -25.797  1.00 69.34      A16S
ATOM  16544  C4   A   A 790     209.503  96.027 -25.203  1.00 69.34      A16S
ATOM  16545  N3   A   A 790     209.233  94.867 -24.583  1.00 69.34      A16S
ATOM  16546  C2   A   A 790     207.987  94.865 -24.126  1.00 69.34      A16S
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ATOM  16547  N1  A   A 790     207.050  95.820 -24.211  1.00 69.34      A16S
ATOM  16548  C6  A   A 790     207.356  96.972 -24.843  1.00 69.34      A16S
ATOM  16549  N6  A   A 790     206.424  97.923 -24.930  1.00 69.34      A16S
ATOM  16550  C5  A   A 790     208.645  97.098 -25.373  1.00 69.34      A16S
ATOM  16551  N7  A   A 790     209.269  98.124 -26.069  1.00 69.34      A16S
ATOM  16552  C8  A   A 790     210.472  97.660 -26.297  1.00 69.34      A16S
ATOM  16553  C2* A   A 790     211.909  94.522 -26.957  1.00 53.07      A16S
ATOM  16554  O2* A   A 790     212.525  93.346 -26.477  1.00 53.07      A16S
ATOM  16555  C3* A   A 790     212.699  95.201 -28.072  1.00 53.07      A16S
ATOM  16556  O3* A   A 790     213.411  94.283 -28.887  1.00 53.07      A16S
ATOM  16557  P   G   A 791     213.074  94.186 -30.447  1.00 67.70      A16S
ATOM  16558  O1P G   A 791     214.160  93.403 -31.107  1.00 51.44      A16S
ATOM  16559  O2P G   A 791     212.773  95.551 -30.920  1.00 51.44      A16S
ATOM  16560  O5* G   A 791     211.723  93.343 -30.463  1.00 67.70      A16S
ATOM  16561  C5* G   A 791     211.681  92.018 -29.895  1.00 67.70      A16S
ATOM  16562  C4* G   A 791     210.253  91.550 -29.726  1.00 67.70      A16S
ATOM  16563  O4* G   A 791     209.621  92.223 -28.613  1.00 67.70      A16S
ATOM  16564  C1* G   A 791     208.240  92.379 -28.876  1.00 67.70      A16S
ATOM  16565  N9  G   A 791     207.908  93.794 -28.754  1.00 51.44      A16S
ATOM  16566  C4  G   A 791     206.733  94.319 -28.286  1.00 51.44      A16S
ATOM  16567  N3  G   A 791     205.651  93.616 -27.898  1.00 51.44      A16S
ATOM  16568  C2  G   A 791     204.681  94.402 -27.468  1.00 51.44      A16S
ATOM  16569  N2  G   A 791     203.524  93.859 -27.045  1.00 51.44      A16S
ATOM  16570  N1  G   A 791     204.773  95.773 -27.419  1.00 51.44      A16S
ATOM  16571  C6  G   A 791     205.884  96.515 -27.814  1.00 51.44      A16S
ATOM  16572  O6  G   A 791     205.876  97.752 -27.715  1.00 51.44      A16S
ATOM  16573  C5  G   A 791     206.918  95.684 -28.286  1.00 51.44      A16S
ATOM  16574  N7  G   A 791     208.168  96.010 -28.780  1.00 51.44      A16S
ATOM  16575  C8  G   A 791     208.717  94.860 -29.048  1.00 51.44      A16S
ATOM  16576  C2* G   A 791     207.946  91.765 -30.243  1.00 67.70      A16S
ATOM  16577  O2* G   A 791     207.440  90.466 -30.018  1.00 67.70      A16S
ATOM  16578  C3* G   A 791     209.324  91.773 -30.903  1.00 67.70      A16S
ATOM  16579  O3* G   A 791     209.485  90.714 -31.838  1.00 67.70      A16S
ATOM  16580  P   A   A 792     209.732  91.044 -33.393  1.00 70.08      A16S
ATOM  16581  O1P A   A 792     210.362  89.854 -34.010  1.00 70.79      A16S
ATOM  16582  O2P A   A 792     210.363  92.371 -33.543  1.00 70.79      A16S
ATOM  16583  O5* A   A 792     208.277  91.143 -33.997  1.00 70.08      A16S
ATOM  16584  C5* A   A 792     207.303  91.938 -33.357  1.00 70.08      A16S
ATOM  16585  C4* A   A 792     206.123  92.093 -34.250  1.00 70.08      A16S
ATOM  16586  O4* A   A 792     205.123  92.827 -33.512  1.00 70.08      A16S
ATOM  16587  C1* A   A 792     204.957  94.114 -34.063  1.00 70.08      A16S
ATOM  16588  N9  A   A 792     205.011  95.064 -32.945  1.00 70.79      A16S
ATOM  16589  C4  A   A 792     203.926  95.580 -32.273  1.00 70.79      A16S
ATOM  16590  N3  A   A 792     202.628  95.315 -32.492  1.00 70.79      A16S
ATOM  16591  C2  A   A 792     201.864  96.017 -31.669  1.00 70.79      A16S
ATOM  16592  N1  A   A 792     202.218  96.894 -30.728  1.00 70.79      A16S
ATOM  16593  C6  A   A 792     203.529  97.144 -30.537  1.00 70.79      A16S
ATOM  16594  N6  A   A 792     203.880  98.043 -29.618  1.00 70.79      A16S
ATOM  16595  C5  A   A 792     204.445  96.450 -31.331  1.00 70.79      A16S
ATOM  16596  N7  A   A 792     205.830  96.465 -31.385  1.00 70.79      A16S
ATOM  16597  C8  A   A 792     206.117  95.626 -32.352  1.00 70.79      A16S
ATOM  16598  C2* A   A 792     206.046  94.310 -35.124  1.00 70.08      A16S
ATOM  16599  O2* A   A 792     205.717  95.225 -36.139  1.00 70.08      A16S
ATOM  16600  C3* A   A 792     206.411  92.874 -35.520  1.00 70.08      A16S
ATOM  16601  O3* A   A 792     205.889  92.118 -36.657  1.00 70.08      A16S
ATOM  16602  P   U   A 793     204.650  92.630 -37.561  1.00 68.43      A16S
ATOM  16603  O1P U   A 793     204.511  91.589 -38.610  1.00 84.10      A16S
ATOM  16604  O2P U   A 793     204.793  94.041 -37.972  1.00 84.10      A16S
ATOM  16605  O5* U   A 793     203.374  92.487 -36.617  1.00 68.43      A16S
ATOM  16606  C5* U   A 793     203.164  91.303 -35.819  1.00 68.43      A16S
ATOM  16607  C4* U   A 793     202.240  90.354 -36.536  1.00 68.43      A16S
ATOM  16608  O4* U   A 793     202.360  89.034 -35.955  1.00 68.43      A16S
ATOM  16609  C1* U   A 793     201.078  88.514 -35.685  1.00 68.43      A16S
ATOM  16610  N1  U   A 793     201.164  87.691 -34.467  1.00 84.10      A16S
ATOM  16611  C6  U   A 793     201.567  88.224 -33.268  1.00 84.10      A16S
ATOM  16612  C2  U   A 793     200.835  86.350 -34.573  1.00 84.10      A16S
ATOM  16613  O2  U   A 793     200.456  85.837 -35.610  1.00 84.10      A16S
ATOM  16614  N3  U   A 793     200.966  85.628 -33.416  1.00 84.10      A16S
ATOM  16615  C4  U   A 793     201.382  86.095 -32.191  1.00 84.10      A16S
ATOM  16616  O4  U   A 793     201.538  85.298 -31.260  1.00 84.10      A16S
ATOM  16617  C5  U   A 793     201.683  87.493 -32.158  1.00 84.10      A16S
ATOM  16618  C2* U   A 793     200.130  89.710 -35.587  1.00 68.43      A16S
ATOM  16619  O2* U   A 793     198.815  89.303 -35.946  1.00 68.43      A16S
ATOM  16620  C3* U   A 793     200.754  90.698 -36.578  1.00 68.43      A16S
ATOM  16621  O3* U   A 793     200.248  90.467 -37.892  1.00 68.43      A16S
ATOM  16622  P   A   A 794     199.225  91.525 -38.558  1.00 44.00      A16S
ATOM  16623  O1P A   A 794     197.813  91.129 -38.223  1.00 65.48      A16S
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ATOM  16624  O2P A   A 794     199.623  91.691 -39.989  1.00 65.48      A16S
ATOM  16625  O5* A   A 794     199.543  92.884 -37.803  1.00 44.00      A16S
ATOM  16626  C5* A   A 794     200.078  93.984 -38.513  1.00 44.00      A16S
ATOM  16627  C4* A   A 794     199.487  95.244 -37.982  1.00 44.00      A16S
ATOM  16628  O4* A   A 794     199.831  95.378 -36.584  1.00 44.00      A16S
ATOM  16629  C1* A   A 794     200.049  96.739 -36.287  1.00 44.00      A16S
ATOM  16630  N9  A   A 794     201.408  96.890 -35.766  1.00 65.48      A16S
ATOM  16631  C4  A   A 794     201.822  97.845 -34.870  1.00 65.48      A16S
ATOM  16632  N3  A   A 794     201.074  98.796 -34.291  1.00 65.48      A16S
ATOM  16633  C2  A   A 794     201.814  99.548 -33.487  1.00 65.48      A16S
ATOM  16634  N1  A   A 794     203.115  99.469 -33.218  1.00 65.48      A16S
ATOM  16635  C6  A   A 794     203.838  98.504 -33.818  1.00 65.48      A16S
ATOM  16636  N6  A   A 794     205.144  98.434 -33.556  1.00 65.48      A16S
ATOM  16637  C5  A   A 794     203.170  97.634 -34.690  1.00 65.48      A16S
ATOM  16638  N7  A   A 794     203.601  96.558 -35.444  1.00 65.48      A16S
ATOM  16639  C8  A   A 794     202.521  96.150 -36.058  1.00 65.48      A16S
ATOM  16640  C2* A   A 794     199.787  97.545 -37.563  1.00 44.00      A16S
ATOM  16641  O2* A   A 794     198.448  97.980 -37.576  1.00 44.00      A16S
ATOM  16642  C3* A   A 794     200.008  96.500 -38.639  1.00 44.00      A16S
ATOM  16643  O3* A   A 794     199.271  96.765 -39.815  1.00 44.00      A16S
ATOM  16644  P   C   A 795     199.957  97.581 -41.011  1.00 27.38      A16S
ATOM  16645  O1P C   A 795     198.988  97.596 -42.143  1.00 51.93      A16S
ATOM  16646  O2P C   A 795     201.351  97.090 -41.227  1.00 51.93      A16S
ATOM  16647  O5* C   A 795     200.036  99.062 -40.444  1.00 27.38      A16S
ATOM  16648  C5* C   A 795     198.839  99.786 -40.151  1.00 27.38      A16S
ATOM  16649  C4* C   A 795     199.134 100.931 -39.226  1.00 27.38      A16S
ATOM  16650  O4* C   A 795     199.726 100.433 -38.004  1.00 27.38      A16S
ATOM  16651  C1* C   A 795     200.583 101.415 -37.470  1.00 27.38      A16S
ATOM  16652  N1  C   A 795     201.894 100.808 -37.218  1.00 51.93      A16S
ATOM  16653  C6  C   A 795     202.323  99.737 -37.946  1.00 51.93      A16S
ATOM  16654  C2  C   A 795     202.710 101.356 -36.227  1.00 51.93      A16S
ATOM  16655  O2  C   A 795     202.282 102.308 -35.547  1.00 51.93      A16S
ATOM  16656  N3  C   A 795     203.942 100.838 -36.025  1.00 51.93      A16S
ATOM  16657  C4  C   A 795     204.359  99.806 -36.760  1.00 51.93      A16S
ATOM  16658  N4  C   A 795     205.593  99.341 -36.544  1.00 51.93      A16S
ATOM  16659  C5  C   A 795     203.535  99.209 -37.751  1.00 51.93      A16S
ATOM  16660  C2* C   A 795     200.617 102.599 -38.444  1.00 27.38      A16S
ATOM  16661  O2* C   A 795     199.725 103.618 -38.016  1.00 27.38      A16S
ATOM  16662  C3* C   A 795     200.114 101.970 -39.733  1.00 27.38      A16S
ATOM  16663  O3* C   A 795     199.427 102.942 -40.503  1.00 27.38      A16S
ATOM  16664  P   C   A 796     199.601 102.958 -42.094  1.00 43.81      A16S
ATOM  16665  O1P C   A 796     198.830 104.116 -42.633  1.00 33.52      A16S
ATOM  16666  O2P C   A 796     199.283 101.578 -42.557  1.00 33.52      A16S
ATOM  16667  O5* C   A 796     201.154 103.237 -42.322  1.00 43.81      A16S
ATOM  16668  C5* C   A 796     201.682 104.574 -42.225  1.00 43.81      A16S
ATOM  16669  C4* C   A 796     203.137 104.609 -42.636  1.00 43.81      A16S
ATOM  16670  O4* C   A 796     203.928 103.866 -41.672  1.00 43.81      A16S
ATOM  16671  C1* C   A 796     204.987 103.195 -42.335  1.00 43.81      A16S
ATOM  16672  N1  C   A 796     204.813 101.741 -42.142  1.00 33.52      A16S
ATOM  16673  C6  C   A 796     203.653 101.244 -41.625  1.00 33.52      A16S
ATOM  16674  C2  C   A 796     205.853 100.876 -42.491  1.00 33.52      A16S
ATOM  16675  O2  C   A 796     206.894 101.349 -42.966  1.00 33.52      A16S
ATOM  16676  N3  C   A 796     205.694  99.547 -42.304  1.00 33.52      A16S
ATOM  16677  C4  C   A 796     204.554  99.079 -41.796  1.00 33.52      A16S
ATOM  16678  N4  C   A 796     204.430  97.766 -41.621  1.00 33.52      A16S
ATOM  16679  C5  C   A 796     203.483  99.934 -41.440  1.00 33.52      A16S
ATOM  16680  C2* C   A 796     204.940 103.611 -43.804  1.00 43.81      A16S
ATOM  16681  O2* C   A 796     205.771 104.736 -43.973  1.00 43.81      A16S
ATOM  16682  C3* C   A 796     203.475 103.976 -43.974  1.00 43.81      A16S
ATOM  16683  O3* C   A 796     203.266 104.833 -45.090  1.00 43.81      A16S
ATOM  16684  P   C   A 797     202.937 104.172 -46.518  1.00 30.14      A16S
ATOM  16685  O1P C   A 797     202.687 105.205 -47.549  1.00 18.54      A16S
ATOM  16686  O2P C   A 797     201.930 103.132 -46.279  1.00 18.54      A16S
ATOM  16687  O5* C   A 797     204.275 103.388 -46.885  1.00 30.14      A16S
ATOM  16688  C5* C   A 797     205.493 104.088 -47.251  1.00 30.14      A16S
ATOM  16689  C4* C   A 797     206.498 103.112 -47.813  1.00 30.14      A16S
ATOM  16690  O4* C   A 797     206.921 102.203 -46.765  1.00 30.14      A16S
ATOM  16691  C1* C   A 797     207.171 100.926 -47.315  1.00 30.14      A16S
ATOM  16692  N1  C   A 797     206.306  99.945 -46.663  1.00 18.54      A16S
ATOM  16693  C6  C   A 797     205.222 100.334 -45.937  1.00 18.54      A16S
ATOM  16694  C2  C   A 797     206.603  98.583 -46.811  1.00 18.54      A16S
ATOM  16695  O2  C   A 797     207.596  98.255 -47.467  1.00 18.54      A16S
ATOM  16696  N3  C   A 797     205.803  97.662 -46.241  1.00 18.54      A16S
ATOM  16697  C4  C   A 797     204.741  98.050 -45.550  1.00 18.54      A16S
ATOM  16698  N4  C   A 797     203.964  97.110 -45.029  1.00 18.54      A16S
ATOM  16699  C5  C   A 797     204.420  99.428 -45.369  1.00 18.54      A16S
ATOM  16700  C2* C   A 797     206.892 100.994 -48.810  1.00 30.14      A16S
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ATOM  16701  O2* C   A 797     208.106 101.208 -49.477  1.00 30.14      A16S
ATOM  16702  C3* C   A 797     205.966 102.192 -48.900  1.00 30.14      A16S
ATOM  16703  O3* C   A 797     205.990 102.789 -50.188  1.00 30.14      A16S
ATOM  16704  P   G   A 798     205.060 102.185 -51.359  1.00 42.07      A16S
ATOM  16705  O1P G   A 798     205.144 103.107 -52.522  1.00 34.42      A16S
ATOM  16706  O2P G   A 798     203.729 101.854 -50.791  1.00 34.42      A16S
ATOM  16707  O5* G   A 798     205.764 100.803 -51.714  1.00 42.07      A16S
ATOM  16708  C5* G   A 798     207.120 100.769 -52.192  1.00 42.07      A16S
ATOM  16709  C4* G   A 798     207.481  99.369 -52.603  1.00 42.07      A16S
ATOM  16710  O4* G   A 798     207.707  98.532 -51.444  1.00 42.07      A16S
ATOM  16711  C1* G   A 798     207.224  97.225 -51.692  1.00 42.07      A16S
ATOM  16712  N9  G   A 798     206.188  96.928 -50.715  1.00 34.42      A16S
ATOM  16713  C4  G   A 798     205.736  95.694 -50.334  1.00 34.42      A16S
ATOM  16714  N3  G   A 798     206.180  94.518 -50.786  1.00 34.42      A16S
ATOM  16715  C2  G   A 798     205.559  93.511 -50.212  1.00 34.42      A16S
ATOM  16716  N2  G   A 798     205.896  92.274 -50.509  1.00 34.42      A16S
ATOM  16717  N1  G   A 798     204.563  93.642 -49.295  1.00 34.42      A16S
ATOM  16718  C6  G   A 798     204.070  94.851 -48.836  1.00 34.42      A16S
ATOM  16719  O6  G   A 798     203.129  94.874 -48.031  1.00 34.42      A16S
ATOM  16720  C5  G   A 798     204.751  95.936 -49.412  1.00 34.42      A16S
ATOM  16721  N7  G   A 798     204.591  97.291 -49.210  1.00 34.42      A16S
ATOM  16722  C8  G   A 798     205.463  97.840 -50.005  1.00 34.42      A16S
ATOM  16723  C2* G   A 798     206.678  97.201 -53.113  1.00 42.07      A16S
ATOM  16724  O2* G   A 798     207.689  96.703 -53.944  1.00 42.07      A16S
ATOM  16725  C3* G   A 798     206.378  98.673 -53.357  1.00 42.07      A16S
ATOM  16726  O3* G   A 798     206.402  99.051 -54.716  1.00 42.07      A16S
ATOM  16727  P   G   A 799     205.179  98.638 -55.659  1.00 35.82      A16S
ATOM  16728  O1P G   A 799     205.631  98.816 -57.068  1.00 37.39      A16S
ATOM  16729  O2P G   A 799     203.969  99.358 -55.185  1.00 37.39      A16S
ATOM  16730  O5* G   A 799     205.042  97.082 -55.329  1.00 35.82      A16S
ATOM  16731  C5* G   A 799     204.027  96.266 -55.916  1.00 35.82      A16S
ATOM  16732  C4* G   A 799     204.356  94.810 -55.697  1.00 35.82      A16S
ATOM  16733  O4* G   A 799     204.761  94.619 -54.321  1.00 35.82      A16S
ATOM  16734  C1* G   A 799     204.186  93.426 -53.818  1.00 35.82      A16S
ATOM  16735  N9  G   A 799     203.249  93.786 -52.759  1.00 37.39      A16S
ATOM  16736  C4  G   A 799     202.504  92.914 -52.014  1.00 37.39      A16S
ATOM  16737  N3  G   A 799     202.514  91.580 -52.130  1.00 37.39      A16S
ATOM  16738  C2  G   A 799     201.726  91.011 -51.261  1.00 37.39      A16S
ATOM  16739  N2  G   A 799     201.641  89.694 -51.233  1.00 37.39      A16S
ATOM  16740  N1  G   A 799     200.971  91.690 -50.351  1.00 37.39      A16S
ATOM  16741  C6  G   A 799     200.941  93.071 -50.215  1.00 37.39      A16S
ATOM  16742  O6  G   A 799     200.234  93.596 -49.348  1.00 37.39      A16S
ATOM  16743  C5  G   A 799     201.787  93.696 -51.143  1.00 37.39      A16S
ATOM  16744  N7  G   A 799     202.059  95.039 -51.347  1.00 37.39      A16S
ATOM  16745  C8  G   A 799     202.932  95.045 -52.314  1.00 37.39      A16S
ATOM  16746  C2* G   A 799     203.455  92.730 -54.966  1.00 35.82      A16S
ATOM  16747  O2* G   A 799     204.249  91.740 -55.567  1.00 35.82      A16S
ATOM  16748  C3* G   A 799     203.166  93.892 -55.890  1.00 35.82      A16S
ATOM  16749  O3* G   A 799     203.029  93.464 -57.217  1.00 35.82      A16S
ATOM  16750  P   G   A 800     201.586  93.510 -57.892  1.00 36.74      A16S
ATOM  16751  O1P G   A 800     201.697  92.950 -59.259  1.00 26.77      A16S
ATOM  16752  O2P G   A 800     201.070  94.891 -57.706  1.00 26.77      A16S
ATOM  16753  O5* G   A 800     200.735  92.498 -57.013  1.00 36.74      A16S
ATOM  16754  C5* G   A 800     201.106  91.131 -56.948  1.00 36.74      A16S
ATOM  16755  C4* G   A 800     200.260  90.410 -55.936  1.00 36.74      A16S
ATOM  16756  O4* G   A 800     200.538  90.935 -54.617  1.00 36.74      A16S
ATOM  16757  C1* G   A 800     199.344  90.997 -53.867  1.00 36.74      A16S
ATOM  16758  N9  G   A 800     199.137  92.407 -53.549  1.00 26.77      A16S
ATOM  16759  C4  G   A 800     198.479  92.937 -52.464  1.00 26.77      A16S
ATOM  16760  N3  G   A 800     197.858  92.243 -51.494  1.00 26.77      A16S
ATOM  16761  C2  G   A 800     197.311  93.034 -50.603  1.00 26.77      A16S
ATOM  16762  N2  G   A 800     196.625  92.509 -49.604  1.00 26.77      A16S
ATOM  16763  N1  G   A 800     197.392  94.397 -50.633  1.00 26.77      A16S
ATOM  16764  C6  G   A 800     198.050  95.135 -51.607  1.00 26.77      A16S
ATOM  16765  O6  G   A 800     198.109  96.372 -51.524  1.00 26.77      A16S
ATOM  16766  C5  G   A 800     198.604  94.302 -52.596  1.00 26.77      A16S
ATOM  16767  N7  G   A 800     199.299  94.627 -53.750  1.00 26.77      A16S
ATOM  16768  C8  G   A 800     199.594  93.475 -54.281  1.00 26.77      A16S
ATOM  16769  C2* G   A 800     198.240  90.328 -54.705  1.00 36.74      A16S
ATOM  16770  O2* G   A 800     198.175  88.945 -54.398  1.00 36.74      A16S
ATOM  16771  C3* G   A 800     198.758  90.529 -56.125  1.00 36.74      A16S
ATOM  16772  O3* G   A 800     198.310  89.505 -57.015  1.00 36.74      A16S
ATOM  16773  P   U   A 801     197.074  89.774 -58.009  1.00 38.22      A16S
ATOM  16774  O1P U   A 801     197.389  89.109 -59.294  1.00 46.34      A16S
ATOM  16775  O2P U   A 801     196.712  91.210 -58.018  1.00 46.34      A16S
ATOM  16776  O5* U   A 801     195.907  88.922 -57.346  1.00 38.22      A16S
ATOM  16777  C5* U   A 801     195.939  87.500 -57.464  1.00 38.22      A16S
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ATOM  16778  C4* U   A 801     195.072  86.842 -56.425  1.00 38.22      A16S
ATOM  16779  O4* U   A 801     195.603  87.054 -55.090  1.00 38.22      A16S
ATOM  16780  C1* U   A 801     194.539  87.012 -54.151  1.00 38.22      A16S
ATOM  16781  N1  U   A 801     194.447  88.308 -53.459  1.00 46.34      A16S
ATOM  16782  C6  U   A 801     194.986  89.455 -53.987  1.00 46.34      A16S
ATOM  16783  C2  U   A 801     193.769  88.337 -52.259  1.00 46.34      A16S
ATOM  16784  O2  U   A 801     193.304  87.349 -51.740  1.00 46.34      A16S
ATOM  16785  N3  U   A 801     193.659  89.568 -51.686  1.00 46.34      A16S
ATOM  16786  C4  U   A 801     194.149  90.746 -52.170  1.00 46.34      A16S
ATOM  16787  O4  U   A 801     193.903  91.784 -51.565  1.00 46.34      A16S
ATOM  16788  C5  U   A 801     194.864  90.638 -53.399  1.00 46.34      A16S
ATOM  16789  C2* U   A 801     193.258  86.759 -54.940  1.00 38.22      A16S
ATOM  16790  O2* U   A 801     193.011  85.370 -54.982  1.00 38.22      A16S
ATOM  16791  C3* U   A 801     193.638  87.298 -56.308  1.00 38.22      A16S
ATOM  16792  O3* U   A 801     192.796  86.800 -57.317  1.00 38.22      A16S
ATOM  16793  P   A   A 802     191.485  87.637 -57.708  1.00 37.38      A16S
ATOM  16794  O1P A   A 802     190.917  87.036 -58.942  1.00 24.51      A16S
ATOM  16795  O2P A   A 802     191.841  89.079 -57.688  1.00 24.51      A16S
ATOM  16796  O5* A   A 802     190.487  87.345 -56.502  1.00 37.38      A16S
ATOM  16797  C5* A   A 802     190.066  85.995 -56.213  1.00 37.38      A16S
ATOM  16798  C4* A   A 802     189.216  85.960 -54.967  1.00 37.38      A16S
ATOM  16799  O4* A   A 802     190.011  86.397 -53.841  1.00 37.38      A16S
ATOM  16800  C1* A   A 802     189.223  87.180 -52.978  1.00 37.38      A16S
ATOM  16801  N9  A   A 802     189.768  88.531 -52.998  1.00 24.51      A16S
ATOM  16802  C4  A   A 802     189.604  89.496 -52.036  1.00 24.51      A16S
ATOM  16803  N3  A   A 802     188.923  89.393 -50.885  1.00 24.51      A16S
ATOM  16804  C2  A   A 802     188.985  90.533 -50.203  1.00 24.51      A16S
ATOM  16805  N1  A   A 802     189.614  91.669 -50.508  1.00 24.51      A16S
ATOM  16806  C6  A   A 802     190.295  91.734 -51.667  1.00 24.51      A16S
ATOM  16807  N6  A   A 802     190.939  92.856 -51.958  1.00 24.51      A16S
ATOM  16808  C5  A   A 802     190.290  90.602 -52.492  1.00 24.51      A16S
ATOM  16809  N7  A   A 802     190.871  90.344 -53.720  1.00 24.51      A16S
ATOM  16810  C8  A   A 802     190.535  89.103 -53.973  1.00 24.51      A16S
ATOM  16811  C2* A   A 802     187.790  87.155 -53.508  1.00 37.38      A16S
ATOM  16812  O2* A   A 802     187.036  86.115 -52.908  1.00 37.38      A16S
ATOM  16813  C3* A   A 802     188.020  86.893 -54.982  1.00 37.38      A16S
ATOM  16814  O3* A   A 802     186.879  86.299 -55.571  1.00 37.38      A16S
ATOM  16815  P   G   A 803     185.931  87.183 -56.516  1.00 31.16      A16S
ATOM  16816  O1P G   A 803     184.605  86.495 -56.549  1.00 42.07      A16S
ATOM  16817  O2P G   A 803     186.652  87.484 -57.795  1.00 42.07      A16S
ATOM  16818  O5* G   A 803     185.749  88.544 -55.717  1.00 31.16      A16S
ATOM  16819  C5* G   A 803     184.980  88.558 -54.525  1.00 31.16      A16S
ATOM  16820  C4* G   A 803     185.101  89.881 -53.854  1.00 31.16      A16S
ATOM  16821  O4* G   A 803     186.501  90.153 -53.637  1.00 31.16      A16S
ATOM  16822  C1* G   A 803     186.736  91.534 -53.777  1.00 31.16      A16S
ATOM  16823  N9  G   A 803     187.669  91.718 -54.877  1.00 42.07      A16S
ATOM  16824  C4  G   A 803     188.597  92.709 -54.970  1.00 42.07      A16S
ATOM  16825  N3  G   A 803     188.816  93.660 -54.051  1.00 42.07      A16S
ATOM  16826  C2  G   A 803     189.777  94.482 -54.412  1.00 42.07      A16S
ATOM  16827  N2  G   A 803     190.146  95.478 -53.586  1.00 42.07      A16S
ATOM  16828  N1  G   A 803     190.453  94.388 -55.597  1.00 42.07      A16S
ATOM  16829  C6  G   A 803     190.237  93.419 -56.563  1.00 42.07      A16S
ATOM  16830  O6  G   A 803     190.897  93.435 -57.602  1.00 42.07      A16S
ATOM  16831  C5  G   A 803     189.223  92.517 -56.176  1.00 42.07      A16S
ATOM  16832  N7  G   A 803     188.701  91.408 -56.831  1.00 42.07      A16S
ATOM  16833  C8  G   A 803     187.783  90.963 -56.021  1.00 42.07      A16S
ATOM  16834  C2* G   A 803     185.394  92.210 -54.059  1.00 31.16      A16S
ATOM  16835  O2* G   A 803     184.811  92.661 -52.850  1.00 31.16      A16S
ATOM  16836  C3* G   A 803     184.601  91.063 -54.655  1.00 31.16      A16S
ATOM  16837  O3* G   A 803     183.208  91.247 -54.495  1.00 31.16      A16S
ATOM  16838  P   U   A 804     182.361  91.923 -55.678  1.00 28.48      A16S
ATOM  16839  O1P U   A 804     180.984  92.086 -55.153  1.00 47.03      A16S
ATOM  16840  O2P U   A 804     182.571  91.173 -56.940  1.00 47.03      A16S
ATOM  16841  O5* U   A 804     183.010  93.366 -55.827  1.00 28.48      A16S
ATOM  16842  C5* U   A 804     182.835  94.326 -54.788  1.00 28.48      A16S
ATOM  16843  C4* U   A 804     183.744  95.495 -54.993  1.00 28.48      A16S
ATOM  16844  O4* U   A 804     185.115  95.039 -55.047  1.00 28.48      A16S
ATOM  16845  C1* U   A 804     185.865  95.917 -55.862  1.00 28.48      A16S
ATOM  16846  N1  U   A 804     186.615  95.153 -56.872  1.00 47.03      A16S
ATOM  16847  C6  U   A 804     186.269  93.884 -57.246  1.00 47.03      A16S
ATOM  16848  C2  U   A 804     187.692  95.784 -57.443  1.00 47.03      A16S
ATOM  16849  O2  U   A 804     188.035  96.904 -57.140  1.00 47.03      A16S
ATOM  16850  N3  U   A 804     188.357  95.063 -58.385  1.00 47.03      A16S
ATOM  16851  C4  U   A 804     188.064  93.806 -58.817  1.00 47.03      A16S
ATOM  16852  O4  U   A 804     188.781  93.289 -59.677  1.00 47.03      A16S
ATOM  16853  C5  U   A 804     186.935  93.207 -58.179  1.00 47.03      A16S
ATOM  16854  C2* U   A 804     184.901  96.943 -56.462  1.00 28.48      A16S
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ATOM  16855  O2* U   A 804     184.961  98.136 -55.707  1.00 28.48      A16S
ATOM  16856  C3* U   A 804     183.560  96.245 -56.293  1.00 28.48      A16S
ATOM  16857  O3* U   A 804     182.505  97.177 -56.197  1.00 28.48      A16S
ATOM  16858  P    C   A 805     181.169  96.938 -57.044  1.00 38.75      A16S
ATOM  16859  O1P C   A 805     180.343  98.170 -56.904  1.00 35.04      A16S
ATOM  16860  O2P C   A 805     180.610  95.620 -56.648  1.00 35.04      A16S
ATOM  16861  O5* C   A 805     181.674  96.856 -58.543  1.00 38.75      A16S
ATOM  16862  C5* C   A 805     182.061  98.040 -59.229  1.00 38.75      A16S
ATOM  16863  C4* C   A 805     182.178  97.768 -60.699  1.00 38.75      A16S
ATOM  16864  O4* C   A 805     183.345  96.949 -60.960  1.00 38.75      A16S
ATOM  16865  C1* C   A 805     183.072  96.052 -62.016  1.00 38.75      A16S
ATOM  16866  N1   C   A 805     183.153  94.685 -61.472  1.00 35.04      A16S
ATOM  16867  C6   C   A 805     183.158  94.476 -60.123  1.00 35.04      A16S
ATOM  16868  C2   C   A 805     183.205  93.598 -62.348  1.00 35.04      A16S
ATOM  16869  O2   C   A 805     183.271  93.809 -63.571  1.00 35.04      A16S
ATOM  16870  N3   C   A 805     183.195  92.340 -61.838  1.00 35.04      A16S
ATOM  16871  C4   C   A 805     183.153  92.156 -60.515  1.00 35.04      A16S
ATOM  16872  N4   C   A 805     183.085  90.906 -60.050  1.00 35.04      A16S
ATOM  16873  C5   C   A 805     183.160  93.242 -59.610  1.00 35.04      A16S
ATOM  16874  C2* C   A 805     181.679  96.406 -62.540  1.00 38.75      A16S
ATOM  16875  O2* C   A 805     181.809  97.446 -63.487  1.00 38.75      A16S
ATOM  16876  C3* C   A 805     181.030  96.989 -61.302  1.00 38.75      A16S
ATOM  16877  O3* C   A 805     179.940  97.837 -61.614  1.00 38.75      A16S
ATOM  16878  P    C   A 806     178.446  97.255 -61.537  1.00 50.15      A16S
ATOM  16879  O1P C   A 806     177.536  98.396 -61.784  1.00 31.55      A16S
ATOM  16880  O2P C   A 806     178.283  96.435 -60.312  1.00 31.55      A16S
ATOM  16881  O5* C   A 806     178.378  96.264 -62.776  1.00 50.15      A16S
ATOM  16882  C5* C   A 806     178.502  96.762 -64.118  1.00 50.15      A16S
ATOM  16883  C4* C   A 806     178.197  95.666 -65.108  1.00 50.15      A16S
ATOM  16884  O4* C   A 806     179.270  94.696 -65.113  1.00 50.15      A16S
ATOM  16885  C1* C   A 806     178.742  93.412 -65.357  1.00 50.15      A16S
ATOM  16886  N1   C   A 806     179.130  92.529 -64.255  1.00 31.55      A16S
ATOM  16887  C6   C   A 806     179.444  93.027 -63.027  1.00 31.55      A16S
ATOM  16888  C2   C   A 806     179.175  91.157 -64.489  1.00 31.55      A16S
ATOM  16889  O2   C   A 806     178.891  90.734 -65.624  1.00 31.55      A16S
ATOM  16890  N3   C   A 806     179.527  90.324 -63.488  1.00 31.55      A16S
ATOM  16891  C4   C   A 806     179.835  90.818 -62.297  1.00 31.55      A16S
ATOM  16892  N4   C   A 806     180.189  89.964 -61.347  1.00 31.55      A16S
ATOM  16893  C5   C   A 806     179.800  92.213 -62.028  1.00 31.55      A16S
ATOM  16894  C2* C   A 806     177.227  93.532 -65.508  1.00 50.15      A16S
ATOM  16895  O2* C   A 806     176.883  93.558 -66.875  1.00 50.15      A16S
ATOM  16896  C3* C   A 806     176.951  94.854 -64.810  1.00 50.15      A16S
ATOM  16897  O3* C   A 806     175.779  95.480 -65.298  1.00 50.15      A16S
ATOM  16898  P    A   A 807     174.380  95.210 -64.558  1.00 48.20      A16S
ATOM  16899  O1P A   A 807     173.393  96.137 -65.183  1.00 44.55      A16S
ATOM  16900  O2P A   A 807     174.599  95.253 -63.082  1.00 44.55      A16S
ATOM  16901  O5* A   A 807     174.032  93.711 -64.968  1.00 48.20      A16S
ATOM  16902  C5* A   A 807     173.800  93.384 -66.337  1.00 48.20      A16S
ATOM  16903  C4* A   A 807     173.637  91.902 -66.509  1.00 48.20      A16S
ATOM  16904  O4* A   A 807     174.874  91.225 -66.198  1.00 48.20      A16S
ATOM  16905  C1* A   A 807     174.589  89.903 -65.778  1.00 48.20      A16S
ATOM  16906  N9   A   A 807     175.289  89.632 -64.525  1.00 44.55      A16S
ATOM  16907  C4   A   A 807     175.541  88.377 -64.039  1.00 44.55      A16S
ATOM  16908  N3   A   A 807     175.192  87.212 -64.596  1.00 44.55      A16S
ATOM  16909  C2   A   A 807     175.618  86.194 -63.857  1.00 44.55      A16S
ATOM  16910  N1   A   A 807     176.295  86.207 -62.709  1.00 44.55      A16S
ATOM  16911  C6   A   A 807     176.619  87.394 -62.168  1.00 44.55      A16S
ATOM  16912  N6   A   A 807     177.273  87.402 -61.011  1.00 44.55      A16S
ATOM  16913  C5   A   A 807     176.236  88.556 -62.860  1.00 44.55      A16S
ATOM  16914  N7   A   A 807     176.414  89.909 -62.595  1.00 44.55      A16S
ATOM  16915  C8   A   A 807     175.831  90.505 -63.610  1.00 44.55      A16S
ATOM  16916  C2* A   A 807     173.073  89.765 -65.661  1.00 48.20      A16S
ATOM  16917  O2* A   A 807     172.558  89.097 -66.796  1.00 48.20      A16S
ATOM  16918  C3* A   A 807     172.638  91.220 -65.601  1.00 48.20      A16S
ATOM  16919  O3* A   A 807     171.306  91.394 -66.021  1.00 48.20      A16S
ATOM  16920  P    C   A 808     170.176  91.624 -64.913  1.00 37.95      A16S
ATOM  16921  O1P C   A 808     168.960  92.113 -65.613  1.00 41.78      A16S
ATOM  16922  O2P C   A 808     170.784  92.442 -63.823  1.00 41.78      A16S
ATOM  16923  O5* C   A 808     169.898  90.163 -64.355  1.00 37.95      A16S
ATOM  16924  C5* C   A 808     169.358  89.176 -65.211  1.00 37.95      A16S
ATOM  16925  C4* C   A 808     169.570  87.810 -64.635  1.00 37.95      A16S
ATOM  16926  O4* C   A 808     170.981  87.482 -64.618  1.00 37.95      A16S
ATOM  16927  C1* C   A 808     171.249  86.615 -63.527  1.00 37.95      A16S
ATOM  16928  N1   C   A 808     172.194  87.257 -62.603  1.00 41.78      A16S
ATOM  16929  C6   C   A 808     172.315  88.613 -62.532  1.00 41.78      A16S
ATOM  16930  C2   C   A 808     172.937  86.437 -61.757  1.00 41.78      A16S
ATOM  16931  O2   C   A 808     172.858  85.200 -61.897  1.00 41.78      A16S
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ATOM  16932  N3  C   A 808     173.725  86.999 -60.818  1.00 41.78      A16S
ATOM  16933  C4  C   A 808     173.804  88.321 -60.728  1.00 41.78      A16S
ATOM  16934  N4  C   A 808     174.566  88.830 -59.768  1.00 41.78      A16S
ATOM  16935  C5  C   A 808     173.099  89.182 -61.616  1.00 41.78      A16S
ATOM  16936  C2* C   A 808     169.936  86.391 -62.787  1.00 37.95      A16S
ATOM  16937  O2* C   A 808     169.346  85.182 -63.216  1.00 37.95      A16S
ATOM  16938  C3* C   A 808     169.162  87.629 -63.195  1.00 37.95      A16S
ATOM  16939  O3* C   A 808     167.787  87.488 -63.017  1.00 37.95      A16S
ATOM  16940  P   G   A 809     167.127  88.099 -61.695  1.00 45.36      A16S
ATOM  16941  O1P G   A 809     165.656  88.184 -61.942  1.00 31.45      A16S
ATOM  16942  O2P G   A 809     167.890  89.334 -61.338  1.00 31.45      A16S
ATOM  16943  O5* G   A 809     167.448  87.002 -60.590  1.00 45.36      A16S
ATOM  16944  C5* G   A 809     166.990  85.679 -60.765  1.00 45.36      A16S
ATOM  16945  C4* G   A 809     167.633  84.773 -59.767  1.00 45.36      A16S
ATOM  16946  O4* G   A 809     169.061  84.738 -59.976  1.00 45.36      A16S
ATOM  16947  C1* G   A 809     169.703  84.419 -58.755  1.00 45.36      A16S
ATOM  16948  N9  G   A 809     170.646  85.475 -58.427  1.00 31.45      A16S
ATOM  16949  C4  G   A 809     171.668  85.376 -57.524  1.00 31.45      A16S
ATOM  16950  N3  G   A 809     171.993  84.273 -56.822  1.00 31.45      A16S
ATOM  16951  C2  G   A 809     173.022  84.487 -56.025  1.00 31.45      A16S
ATOM  16952  N2  G   A 809     173.481  83.485 -55.271  1.00 31.45      A16S
ATOM  16953  N1  G   A 809     173.669  85.698 -55.914  1.00 31.45      A16S
ATOM  16954  C6  G   A 809     173.329  86.850 -56.611  1.00 31.45      A16S
ATOM  16955  O6  G   A 809     173.930  87.897 -56.400  1.00 31.45      A16S
ATOM  16956  C5  G   A 809     172.252  86.622 -57.492  1.00 31.45      A16S
ATOM  16957  N7  G   A 809     171.625  87.480 -58.381  1.00 31.45      A16S
ATOM  16958  C8  G   A 809     170.679  86.755 -58.915  1.00 31.45      A16S
ATOM  16959  C2* G   A 809     168.630  84.346 -57.674  1.00 45.36      A16S
ATOM  16960  O2* G   A 809     168.254  83.006 -57.439  1.00 45.36      A16S
ATOM  16961  C3* G   A 809     167.507  85.150 -58.307  1.00 45.36      A16S
ATOM  16962  O3* G   A 809     166.268  84.768 -57.757  1.00 45.36      A16S
ATOM  16963  P   C   A 810     165.804  85.400 -56.362  1.00 28.83      A16S
ATOM  16964  O1P C   A 810     164.844  84.416 -55.783  1.00 31.27      A16S
ATOM  16965  O2P C   A 810     165.397  86.816 -56.548  1.00 31.27      A16S
ATOM  16966  O5* C   A 810     167.137  85.416 -55.504  1.00 28.83      A16S
ATOM  16967  C5* C   A 810     167.093  85.603 -54.099  1.00 28.83      A16S
ATOM  16968  C4* C   A 810     168.074  84.685 -53.443  1.00 28.83      A16S
ATOM  16969  O4* C   A 810     169.320  84.779 -54.153  1.00 28.83      A16S
ATOM  16970  C1* C   A 810     170.395  84.799 -53.246  1.00 28.83      A16S
ATOM  16971  N1  C   A 810     171.060  86.093 -53.412  1.00 31.27      A16S
ATOM  16972  C6  C   A 810     170.608  86.987 -54.339  1.00 31.27      A16S
ATOM  16973  C2  C   A 810     172.164  86.394 -52.632  1.00 31.27      A16S
ATOM  16974  O2  C   A 810     172.536  85.569 -51.786  1.00 31.27      A16S
ATOM  16975  N3  C   A 810     172.800  87.576 -52.815  1.00 31.27      A16S
ATOM  16976  C4  C   A 810     172.357  88.430 -53.732  1.00 31.27      A16S
ATOM  16977  N4  C   A 810     173.010  89.563 -53.897  1.00 31.27      A16S
ATOM  16978  C5  C   A 810     171.221  88.152 -54.528  1.00 31.27      A16S
ATOM  16979  C2* C   A 810     169.823  84.532 -51.859  1.00 28.83      A16S
ATOM  16980  O2* C   A 810     169.859  83.136 -51.664  1.00 28.83      A16S
ATOM  16981  C3* C   A 810     168.402  85.050 -52.018  1.00 28.83      A16S
ATOM  16982  O3* C   A 810     167.459  84.441 -51.156  1.00 28.83      A16S
ATOM  16983  P   C   A 811     166.875  85.276 -49.923  1.00 26.68      A16S
ATOM  16984  O1P C   A 811     166.127  84.352 -49.036  1.00 32.77      A16S
ATOM  16985  O2P C   A 811     166.210  86.485 -50.455  1.00 32.77      A16S
ATOM  16986  O5* C   A 811     168.185  85.754 -49.165  1.00 26.68      A16S
ATOM  16987  C5* C   A 811     169.114  84.805 -48.618  1.00 26.68      A16S
ATOM  16988  C4* C   A 811     170.289  85.540 -48.053  1.00 26.68      A16S
ATOM  16989  O4* C   A 811     170.890  86.301 -49.115  1.00 26.68      A16S
ATOM  16990  C1* C   A 811     171.479  87.457 -48.578  1.00 26.68      A16S
ATOM  16991  N1  C   A 811     171.215  88.592 -49.463  1.00 32.77      A16S
ATOM  16992  C6  C   A 811     170.339  88.489 -50.506  1.00 32.77      A16S
ATOM  16993  C2  C   A 811     171.909  89.779 -49.242  1.00 32.77      A16S
ATOM  16994  O2  C   A 811     172.632  89.870 -48.246  1.00 32.77      A16S
ATOM  16995  N3  C   A 811     171.763  90.804 -50.109  1.00 32.77      A16S
ATOM  16996  C4  C   A 811     170.932  90.681 -51.145  1.00 32.77      A16S
ATOM  16997  N4  C   A 811     170.834  91.708 -51.987  1.00 32.77      A16S
ATOM  16998  C5  C   A 811     170.169  89.500 -51.364  1.00 32.77      A16S
ATOM  16999  C2* C   A 811     171.045  87.600 -47.123  1.00 26.68      A16S
ATOM  17000  O2* C   A 811     172.133  87.264 -46.290  1.00 26.68      A16S
ATOM  17001  C3* C   A 811     169.917  86.588 -47.024  1.00 26.68      A16S
ATOM  17002  O3* C   A 811     169.889  85.999 -45.741  1.00 26.68      A16S
ATOM  17003  P   C   A 812     168.759  86.426 -44.703  1.00 31.52      A16S
ATOM  17004  O1P C   A 812     169.259  86.012 -43.366  1.00 29.79      A16S
ATOM  17005  O2P C   A 812     167.444  85.935 -45.198  1.00 29.79      A16S
ATOM  17006  O5* C   A 812     168.767  88.009 -44.778  1.00 31.52      A16S
ATOM  17007  C5* C   A 812     169.662  88.756 -43.967  1.00 31.52      A16S
ATOM  17008  C4* C   A 812     169.123  90.141 -43.745  1.00 31.52      A16S
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ATOM  17009  O4* C   A 812     169.262  90.923 -44.961  1.00 31.52      A16S
ATOM  17010  C1* C   A 812     168.036  91.531 -45.303  1.00 31.52      A16S
ATOM  17011  N1  C   A 812     167.924  91.491 -46.781  1.00 29.79      A16S
ATOM  17012  C6  C   A 812     167.192  90.516 -47.388  1.00 29.79      A16S
ATOM  17013  C2  C   A 812     168.588  92.462 -47.566  1.00 29.79      A16S
ATOM  17014  O2  C   A 812     169.293  93.319 -47.019  1.00 29.79      A16S
ATOM  17015  N3  C   A 812     168.466  92.419 -48.909  1.00 29.79      A16S
ATOM  17016  C4  C   A 812     167.768  91.439 -49.482  1.00 29.79      A16S
ATOM  17017  N4  C   A 812     167.731  91.384 -50.813  1.00 29.79      A16S
ATOM  17018  C5  C   A 812     167.092  90.453 -48.719  1.00 29.79      A16S
ATOM  17019  C2* C   A 812     166.947  90.745 -44.563  1.00 31.52      A16S
ATOM  17020  O2* C   A 812     165.751  91.474 -44.362  1.00 31.52      A16S
ATOM  17021  C3* C   A 812     167.672  90.236 -43.310  1.00 31.52      A16S
ATOM  17022  O3* C   A 812     167.558  90.852 -42.006  1.00 31.52      A16S
ATOM  17023  P   U   A 813     167.243  92.424 -41.835  1.00 32.26      A16S
ATOM  17024  O1P U   A 813     165.892  92.535 -41.213  1.00 23.48      A16S
ATOM  17025  O2P U   A 813     167.547  93.173 -43.074  1.00 23.48      A16S
ATOM  17026  O5* U   A 813     168.315  92.894 -40.758  1.00 32.26      A16S
ATOM  17027  C5* U   A 813     169.378  92.015 -40.363  1.00 32.26      A16S
ATOM  17028  C4* U   A 813     170.720  92.671 -40.581  1.00 32.26      A16S
ATOM  17029  O4* U   A 813     171.055  92.757 -41.985  1.00 32.26      A16S
ATOM  17030  C1* U   A 813     171.965  93.823 -42.175  1.00 32.26      A16S
ATOM  17031  N1  U   A 813     171.528  94.658 -43.308  1.00 23.48      A16S
ATOM  17032  C6  U   A 813     170.276  94.551 -43.862  1.00 23.48      A16S
ATOM  17033  C2  U   A 813     172.442  95.587 -43.803  1.00 23.48      A16S
ATOM  17034  O2  U   A 813     173.571  95.709 -43.358  1.00 23.48      A16S
ATOM  17035  N3  U   A 813     171.988  96.362 -44.839  1.00 23.48      A16S
ATOM  17036  C4  U   A 813     170.760  96.303 -45.435  1.00 23.48      A16S
ATOM  17037  O4  U   A 813     170.549  96.989 -46.434  1.00 23.48      A16S
ATOM  17038  C5  U   A 813     169.872  95.322 -44.879  1.00 23.48      A16S
ATOM  17039  C2* U   A 813     172.074  94.587 -40.853  1.00 32.26      A16S
ATOM  17040  O2* U   A 813     173.244  94.191 -40.174  1.00 32.26      A16S
ATOM  17041  C3* U   A 813     170.843  94.101 -40.110  1.00 32.26      A16S
ATOM  17042  O3* U   A 813     171.034  94.156 -38.718  1.00 32.26      A16S
ATOM  17043  P   A   A 814     170.518  95.438 -37.911  1.00 29.18      A16S
ATOM  17044  O1P A   A 814     169.129  95.754 -38.372  1.00 26.17      A16S
ATOM  17045  O2P A   A 814     170.782  95.166 -36.472  1.00 26.17      A16S
ATOM  17046  O5* A   A 814     171.464  96.613 -38.423  1.00 29.18      A16S
ATOM  17047  C5* A   A 814     172.760  96.789 -37.863  1.00 29.18      A16S
ATOM  17048  C4* A   A 814     173.393  98.025 -38.411  1.00 29.18      A16S
ATOM  17049  O4* A   A 814     173.601  97.847 -39.817  1.00 29.18      A16S
ATOM  17050  C1* A   A 814     173.653  99.108 -40.430  1.00 29.18      A16S
ATOM  17051  N9  A   A 814     172.818  99.080 -41.613  1.00 26.17      A16S
ATOM  17052  C4  A   A 814     172.968  99.901 -42.689  1.00 26.17      A16S
ATOM  17053  N3  A   A 814     173.907 100.832 -42.861  1.00 26.17      A16S
ATOM  17054  C2  A   A 814     173.733 101.449 -44.017  1.00 26.17      A16S
ATOM  17055  N1  A   A 814     172.790 101.260 -44.945  1.00 26.17      A16S
ATOM  17056  C6  A   A 814     171.857 100.313 -44.725  1.00 26.17      A16S
ATOM  17057  N6  A   A 814     170.894 100.131 -45.634  1.00 26.17      A16S
ATOM  17058  C5  A   A 814     171.947  99.581 -43.547  1.00 26.17      A16S
ATOM  17059  N7  A   A 814     171.182  98.554 -43.035  1.00 26.17      A16S
ATOM  17060  C8  A   A 814     171.745  98.291 -41.886  1.00 26.17      A16S
ATOM  17061  C2* A   A 814     173.187 100.151 -39.421  1.00 29.18      A16S
ATOM  17062  O2* A   A 814     174.310 100.859 -38.956  1.00 29.18      A16S
ATOM  17063  C3* A   A 814     172.559  99.284 -38.347  1.00 29.18      A16S
ATOM  17064  O3* A   A 814     172.680  99.895 -37.087  1.00 29.18      A16S
ATOM  17065  P   A   A 815     171.476 100.796 -36.517  1.00 20.83      A16S
ATOM  17066  O1P A   A 815     170.264 100.692 -37.391  1.00 20.40      A16S
ATOM  17067  O2P A   A 815     171.375 100.461 -35.052  1.00 20.40      A16S
ATOM  17068  O5* A   A 815     172.029 102.274 -36.669  1.00 20.83      A16S
ATOM  17069  C5* A   A 815     173.098 102.727 -35.835  1.00 20.83      A16S
ATOM  17070  C4* A   A 815     173.624 104.019 -36.354  1.00 20.83      A16S
ATOM  17071  O4* A   A 815     174.466 104.637 -35.360  1.00 20.83      A16S
ATOM  17072  C1* A   A 815     175.645 105.076 -35.973  1.00 20.83      A16S
ATOM  17073  N9  A   A 815     176.723 105.026 -34.993  1.00 20.40      A16S
ATOM  17074  C4  A   A 815     177.417 106.117 -34.556  1.00 20.40      A16S
ATOM  17075  N3  A   A 815     177.242 107.387 -34.937  1.00 20.40      A16S
ATOM  17076  C2  A   A 815     178.076 108.170 -34.293  1.00 20.40      A16S
ATOM  17077  N1  A   A 815     178.991 107.852 -33.386  1.00 20.40      A16S
ATOM  17078  C6  A   A 815     179.137 106.558 -33.039  1.00 20.40      A16S
ATOM  17079  N6  A   A 815     180.056 106.227 -32.133  1.00 20.40      A16S
ATOM  17080  C5  A   A 815     178.324 105.641 -33.642  1.00 20.40      A16S
ATOM  17081  N7  A   A 815     178.224 104.274 -33.508  1.00 20.40      A16S
ATOM  17082  C8  A   A 815     177.257 103.954 -34.327  1.00 20.40      A16S
ATOM  17083  C2* A   A 815     175.855 104.176 -37.182  1.00 20.83      A16S
ATOM  17084  O2* A   A 815     176.621 104.875 -38.137  1.00 20.83      A16S
ATOM  17085  C3* A   A 815     174.425 103.936 -37.640  1.00 20.83      A16S
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ATOM  17086  O3*  A   A 815     174.026 104.989 -38.476  1.00 20.83      A16S
ATOM  17087  P    A   A 816     173.662 104.686 -39.997  1.00 23.82      A16S
ATOM  17088  O1P  A   A 816     172.965 105.921 -40.482  1.00 10.07      A16S
ATOM  17089  O2P  A   A 816     174.879 104.193 -40.693  1.00 10.07      A16S
ATOM  17090  O5*  A   A 816     172.685 103.425 -39.923  1.00 23.82      A16S
ATOM  17091  C5*  A   A 816     171.275 103.564 -39.657  1.00 23.82      A16S
ATOM  17092  C4*  A   A 816     170.481 103.469 -40.945  1.00 23.82      A16S
ATOM  17093  O4*  A   A 816     170.729 102.210 -41.607  1.00 23.82      A16S
ATOM  17094  C1*  A   A 816     169.566 101.801 -42.291  1.00 23.82      A16S
ATOM  17095  N9   A   A 816     169.178 100.498 -41.778  1.00 10.07      A16S
ATOM  17096  C4   A   A 816     168.591  99.494 -42.494  1.00 10.07      A16S
ATOM  17097  N3   A   A 816     168.258  99.519 -43.786  1.00 10.07      A16S
ATOM  17098  C2   A   A 816     167.727  98.357 -44.144  1.00 10.07      A16S
ATOM  17099  N1   A   A 816     167.516  97.255 -43.413  1.00 10.07      A16S
ATOM  17100  C6   A   A 816     167.878  97.266 -42.113  1.00 10.07      A16S
ATOM  17101  N6   A   A 816     167.707  96.156 -41.380  1.00 10.07      A16S
ATOM  17102  C5   A   A 816     168.431  98.443 -41.610  1.00 10.07      A16S
ATOM  17103  N7   A   A 816     168.892  98.783 -40.349  1.00 10.07      A16S
ATOM  17104  C8   A   A 816     169.322 100.013 -40.502  1.00 10.07      A16S
ATOM  17105  C2*  A   A 816     168.487 102.855 -42.066  1.00 23.82      A16S
ATOM  17106  O2*  A   A 816     168.502 103.771 -43.137  1.00 23.82      A16S
ATOM  17107  C3*  A   A 816     168.972 103.533 -40.800  1.00 23.82      A16S
ATOM  17108  O3*  A   A 816     168.545 104.881 -40.807  1.00 23.82      A16S
ATOM  17109  P    C   A 817     167.487 105.384 -39.718  1.00 31.20      A16S
ATOM  17110  O1P  C   A 817     166.169 105.485 -40.375  1.00 18.89      A16S
ATOM  17111  O2P  C   A 817     167.630 104.552 -38.501  1.00 18.89      A16S
ATOM  17112  O5*  C   A 817     167.970 106.858 -39.386  1.00 31.20      A16S
ATOM  17113  C5*  C   A 817     168.856 107.538 -40.269  1.00 31.20      A16S
ATOM  17114  C4*  C   A 817     169.216 108.866 -39.695  1.00 31.20      A16S
ATOM  17115  O4*  C   A 817     169.282 108.726 -38.273  1.00 31.20      A16S
ATOM  17116  C1*  C   A 817     170.590 108.976 -37.838  1.00 31.20      A16S
ATOM  17117  N1   C   A 817     170.928 107.947 -36.856  1.00 18.89      A16S
ATOM  17118  C6   C   A 817     170.237 106.776 -36.811  1.00 18.89      A16S
ATOM  17119  C2   C   A 817     171.935 108.201 -35.947  1.00 18.89      A16S
ATOM  17120  O2   C   A 817     172.590 109.240 -36.064  1.00 18.89      A16S
ATOM  17121  N3   C   A 817     172.175 107.312 -34.969  1.00 18.89      A16S
ATOM  17122  C4   C   A 817     171.458 106.194 -34.904  1.00 18.89      A16S
ATOM  17123  N4   C   A 817     171.680 105.362 -33.898  1.00 18.89      A16S
ATOM  17124  C5   C   A 817     170.469 105.883 -35.860  1.00 18.89      A16S
ATOM  17125  C2*  C   A 817     171.513 108.982 -39.052  1.00 31.20      A16S
ATOM  17126  O2*  C   A 817     172.551 109.945 -38.841  1.00 31.20      A16S
ATOM  17127  C3*  C   A 817     170.559 109.391 -40.174  1.00 31.20      A16S
ATOM  17128  O3*  C   A 817     170.542 110.801 -40.220  1.00 31.20      A16S
ATOM  17129  P    G   A 818     169.465 111.570 -41.114  1.00 33.84      A16S
ATOM  17130  O1P  G   A 818     168.348 110.659 -41.453  1.00 47.94      A16S
ATOM  17131  O2P  G   A 818     170.176 112.298 -42.200  1.00 47.94      A16S
ATOM  17132  O5*  G   A 818     168.947 112.660 -40.080  1.00 33.84      A16S
ATOM  17133  C5*  G   A 818     169.889 113.527 -39.401  1.00 33.84      A16S
ATOM  17134  C4*  G   A 818     169.291 114.060 -38.117  1.00 33.84      A16S
ATOM  17135  O4*  G   A 818     167.990 114.628 -38.432  1.00 33.84      A16S
ATOM  17136  C1*  G   A 818     167.032 114.061 -37.583  1.00 33.84      A16S
ATOM  17137  N9   G   A 818     165.719 114.153 -38.205  1.00 47.94      A16S
ATOM  17138  C4   G   A 818     164.615 114.669 -37.595  1.00 47.94      A16S
ATOM  17139  N3   G   A 818     164.568 115.135 -36.334  1.00 47.94      A16S
ATOM  17140  C2   G   A 818     163.375 115.560 -36.012  1.00 47.94      A16S
ATOM  17141  N2   G   A 818     163.165 116.040 -34.783  1.00 47.94      A16S
ATOM  17142  N1   G   A 818     162.301 115.541 -36.868  1.00 47.94      A16S
ATOM  17143  C6   G   A 818     162.329 115.066 -38.175  1.00 47.94      A16S
ATOM  17144  O6   G   A 818     161.302 115.087 -38.861  1.00 47.94      A16S
ATOM  17145  C5   G   A 818     163.610 114.602 -38.529  1.00 47.94      A16S
ATOM  17146  N7   G   A 818     164.076 114.047 -39.711  1.00 47.94      A16S
ATOM  17147  C8   G   A 818     165.335 113.792 -39.471  1.00 47.94      A16S
ATOM  17148  C2*  G   A 818     167.582 112.704 -37.175  1.00 33.84      A16S
ATOM  17149  O2*  G   A 818     166.957 112.256 -36.001  1.00 33.84      A16S
ATOM  17150  C3*  G   A 818     169.059 113.048 -36.998  1.00 33.84      A16S
ATOM  17151  O3*  G   A 818     169.235 113.723 -35.745  1.00 33.84      A16S
ATOM  17152  P    A   A 819     170.324 113.202 -34.674  1.00 28.30      A16S
ATOM  17153  O1P  A   A 819     170.301 114.130 -33.521  1.00 28.15      A16S
ATOM  17154  O2P  A   A 819     171.602 112.957 -35.380  1.00 28.15      A16S
ATOM  17155  O5*  A   A 819     169.738 111.812 -34.166  1.00 28.30      A16S
ATOM  17156  C5*  A   A 819     169.264 110.887 -35.138  1.00 28.30      A16S
ATOM  17157  C4*  A   A 819     168.938 109.554 -34.546  1.00 28.30      A16S
ATOM  17158  O4*  A   A 819     170.098 108.957 -33.939  1.00 28.30      A16S
ATOM  17159  C1*  A   A 819     169.728 108.326 -32.746  1.00 28.30      A16S
ATOM  17160  N9   A   A 819     170.839 108.496 -31.812  1.00 28.15      A16S
ATOM  17161  C4   A   A 819     171.292 107.587 -30.896  1.00 28.15      A16S
ATOM  17162  N3   A   A 819     170.811 106.362 -30.668  1.00 28.15      A16S
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ATOM  17163  C2  A   A 819     171.499 105.772 -29.701  1.00 28.15      A16S
ATOM  17164  N1  A   A 819     172.531 106.235 -28.990  1.00 28.15      A16S
ATOM  17165  C6  A   A 819     172.979 107.478 -29.247  1.00 28.15      A16S
ATOM  17166  N6  A   A 819     173.996 107.960 -28.527  1.00 28.15      A16S
ATOM  17167  C5  A   A 819     172.344 108.197 -30.248  1.00 28.15      A16S
ATOM  17168  N7  A   A 819     172.560 109.466 -30.747  1.00 28.15      A16S
ATOM  17169  C8  A   A 819     171.644 109.596 -31.671  1.00 28.15      A16S
ATOM  17170  C2* A   A 819     168.429 108.991 -32.285  1.00 28.30      A16S
ATOM  17171  O2* A   A 819     167.655 108.033 -31.598  1.00 28.30      A16S
ATOM  17172  C3* A   A 819     167.769 109.420 -33.597  1.00 28.30      A16S
ATOM  17173  O3* A   A 819     166.914 108.417 -34.122  1.00 28.30      A16S
ATOM  17174  P   U   A 820     165.948 108.759 -35.372  1.00 24.78      A16S
ATOM  17175  O1P U   A 820     165.378 107.451 -35.800  1.00 49.28      A16S
ATOM  17176  O2P U   A 820     166.646 109.613 -36.361  1.00 49.28      A16S
ATOM  17177  O5* U   A 820     164.766 109.642 -34.775  1.00 24.78      A16S
ATOM  17178  C5* U   A 820     163.773 109.072 -33.902  1.00 24.78      A16S
ATOM  17179  C4* U   A 820     162.736 110.112 -33.552  1.00 24.78      A16S
ATOM  17180  O4* U   A 820     163.388 111.215 -32.865  1.00 24.78      A16S
ATOM  17181  C1* U   A 820     163.051 112.414 -33.498  1.00 24.78      A16S
ATOM  17182  N1  U   A 820     164.121 113.393 -33.273  1.00 49.28      A16S
ATOM  17183  C6  U   A 820     165.270 113.406 -34.011  1.00 49.28      A16S
ATOM  17184  C2  U   A 820     163.916 114.314 -32.280  1.00 49.28      A16S
ATOM  17185  O2  U   A 820     162.921 114.326 -31.592  1.00 49.28      A16S
ATOM  17186  N3  U   A 820     164.920 115.226 -32.112  1.00 49.28      A16S
ATOM  17187  C4  U   A 820     166.088 115.304 -32.820  1.00 49.28      A16S
ATOM  17188  O4  U   A 820     166.891 116.195 -32.557  1.00 49.28      A16S
ATOM  17189  C5  U   A 820     166.237 114.308 -33.826  1.00 49.28      A16S
ATOM  17190  C2* U   A 820     162.717 112.043 -34.940  1.00 24.78      A16S
ATOM  17191  O2* U   A 820     161.857 113.004 -35.518  1.00 24.78      A16S
ATOM  17192  C3* U   A 820     162.003 110.711 -34.749  1.00 24.78      A16S
ATOM  17193  O3* U   A 820     160.653 111.042 -34.425  1.00 24.78      A16S
ATOM  17194  P   G   A 821     159.532 109.899 -34.301  1.00 33.88      A16S
ATOM  17195  O1P G   A 821     158.383 110.564 -33.646  1.00 42.89      A16S
ATOM  17196  O2P G   A 821     160.135 108.682 -33.690  1.00 42.89      A16S
ATOM  17197  O5* G   A 821     159.074 109.580 -35.786  1.00 33.88      A16S
ATOM  17198  C5* G   A 821     159.615 108.453 -36.476  1.00 33.88      A16S
ATOM  17199  C4* G   A 821     158.536 107.731 -37.233  1.00 33.88      A16S
ATOM  17200  O4* G   A 821     157.786 106.848 -36.371  1.00 33.88      A16S
ATOM  17201  C1* G   A 821     156.451 106.780 -36.828  1.00 33.88      A16S
ATOM  17202  N9  G   A 821     155.587 107.227 -35.750  1.00 42.89      A16S
ATOM  17203  C4  G   A 821     154.224 107.126 -35.697  1.00 42.89      A16S
ATOM  17204  N3  G   A 821     153.438 106.563 -36.623  1.00 42.89      A16S
ATOM  17205  C2  G   A 821     152.167 106.639 -36.295  1.00 42.89      A16S
ATOM  17206  N2  G   A 821     151.233 106.127 -37.099  1.00 42.89      A16S
ATOM  17207  N1  G   A 821     151.713 107.219 -35.157  1.00 42.89      A16S
ATOM  17208  C6  G   A 821     152.510 107.808 -34.195  1.00 42.89      A16S
ATOM  17209  O6  G   A 821     151.994 108.323 -33.199  1.00 42.89      A16S
ATOM  17210  C5  G   A 821     153.862 107.730 -34.527  1.00 42.89      A16S
ATOM  17211  N7  G   A 821     154.974 108.185 -33.843  1.00 42.89      A16S
ATOM  17212  C8  G   A 821     155.975 107.858 -34.605  1.00 42.89      A16S
ATOM  17213  C2* G   A 821     156.323 107.688 -38.055  1.00 33.88      A16S
ATOM  17214  O2* G   A 821     156.447 106.934 -39.239  1.00 33.88      A16S
ATOM  17215  C3* G   A 821     157.504 108.624 -37.883  1.00 33.88      A16S
ATOM  17216  O3* G   A 821     157.978 109.083 -39.132  1.00 33.88      A16S
ATOM  17217  P   C   A 822     157.396 110.437 -39.744  1.00 30.57      A16S
ATOM  17218  O1P C   A 822     158.084 110.688 -41.032  1.00 31.54      A16S
ATOM  17219  O2P C   A 822     157.425 111.470 -38.678  1.00 31.54      A16S
ATOM  17220  O5* C   A 822     155.898 110.053 -40.090  1.00 30.57      A16S
ATOM  17221  C5* C   A 822     155.638 109.138 -41.151  1.00 30.57      A16S
ATOM  17222  C4* C   A 822     154.162 109.028 -41.396  1.00 30.57      A16S
ATOM  17223  O4* C   A 822     153.531 108.328 -40.298  1.00 30.57      A16S
ATOM  17224  C1* C   A 822     152.221 108.829 -40.104  1.00 30.57      A16S
ATOM  17225  N1  C   A 822     152.130 109.372 -38.742  1.00 31.54      A16S
ATOM  17226  C6  C   A 822     153.259 109.699 -38.053  1.00 31.54      A16S
ATOM  17227  C2  C   A 822     150.871 109.566 -38.166  1.00 31.54      A16S
ATOM  17228  O2  C   A 822     149.857 109.232 -38.792  1.00 31.54      A16S
ATOM  17229  N3  C   A 822     150.789 110.107 -36.940  1.00 31.54      A16S
ATOM  17230  C4  C   A 822     151.898 110.437 -36.284  1.00 31.54      A16S
ATOM  17231  N4  C   A 822     151.769 110.985 -35.081  1.00 31.54      A16S
ATOM  17232  C5  C   A 822     153.189 110.226 -36.833  1.00 31.54      A16S
ATOM  17233  C2* C   A 822     151.988 109.905 -41.163  1.00 30.57      A16S
ATOM  17234  O2* C   A 822     151.388 109.336 -42.306  1.00 30.57      A16S
ATOM  17235  C3* C   A 822     153.405 110.333 -41.478  1.00 30.57      A16S
ATOM  17236  O3* C   A 822     153.474 110.939 -42.742  1.00 30.57      A16S
ATOM  17237  P   G   A 823     153.292 112.518 -42.836  1.00 38.13      A16S
ATOM  17238  O1P G   A 823     153.623 112.946 -44.215  1.00 20.53      A16S
ATOM  17239  O2P G   A 823     154.021 113.102 -41.689  1.00 20.53      A16S
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ATOM  17240  O5* G   A 823     151.743 112.727 -42.558  1.00 38.13      A16S
ATOM  17241  C5* G   A 823     150.773 112.053 -43.358  1.00 38.13      A16S
ATOM  17242  C4* G   A 823     149.384 112.304 -42.832  1.00 38.13      A16S
ATOM  17243  O4* G   A 823     149.167 111.586 -41.593  1.00 38.13      A16S
ATOM  17244  C1* G   A 823     148.236 112.295 -40.793  1.00 38.13      A16S
ATOM  17245  N9  G   A 823     148.847 112.619 -39.505  1.00 20.53      A16S
ATOM  17246  C4  G   A 823     148.176 112.839 -38.332  1.00 20.53      A16S
ATOM  17247  N3  G   A 823     146.845 112.767 -38.159  1.00 20.53      A16S
ATOM  17248  C2  G   A 823     146.500 113.006 -36.908  1.00 20.53      A16S
ATOM  17249  N2  G   A 823     145.214 112.949 -36.547  1.00 20.53      A16S
ATOM  17250  N1  G   A 823     147.384 113.316 -35.919  1.00 20.53      A16S
ATOM  17251  C6  G   A 823     148.751 113.420 -36.085  1.00 20.53      A16S
ATOM  17252  O6  G   A 823     149.451 113.747 -35.138  1.00 20.53      A16S
ATOM  17253  C5  G   A 823     149.142 113.132 -37.405  1.00 20.53      A16S
ATOM  17254  N7  G   A 823     150.400 113.085 -37.975  1.00 20.53      A16S
ATOM  17255  C8  G   A 823     150.175 112.780 -39.222  1.00 20.53      A16S
ATOM  17256  C2* G   A 823     147.838 113.549 -41.567  1.00 38.13      A16S
ATOM  17257  O2* G   A 823     146.665 113.285 -42.318  1.00 38.13      A16S
ATOM  17258  C3* G   A 823     149.033 113.733 -42.480  1.00 38.13      A16S
ATOM  17259  O3* G   A 823     148.691 114.512 -43.596  1.00 38.13      A16S
ATOM  17260  P   C   A 824     148.965 116.084 -43.542  1.00 42.14      A16S
ATOM  17261  O1P C   A 824     148.756 116.622 -44.908  1.00 40.47      A16S
ATOM  17262  O2P C   A 824     150.264 116.281 -42.857  1.00 40.47      A16S
ATOM  17263  O5* C   A 824     147.824 116.636 -42.580  1.00 42.14      A16S
ATOM  17264  C5* C   A 824     146.439 116.484 -42.941  1.00 42.14      A16S
ATOM  17265  C4* C   A 824     145.535 116.962 -41.830  1.00 42.14      A16S
ATOM  17266  O4* C   A 824     145.568 116.040 -40.719  1.00 42.14      A16S
ATOM  17267  C1* C   A 824     145.341 116.744 -39.520  1.00 42.14      A16S
ATOM  17268  N1  C   A 824     146.491 116.565 -38.640  1.00 40.47      A16S
ATOM  17269  C6  C   A 824     147.720 116.272 -39.145  1.00 40.47      A16S
ATOM  17270  C2  C   A 824     146.317 116.745 -37.266  1.00 40.47      A16S
ATOM  17271  O2  C   A 824     145.163 116.919 -36.817  1.00 40.47      A16S
ATOM  17272  N3  C   A 824     147.398 116.713 -36.461  1.00 40.47      A16S
ATOM  17273  C4  C   A 824     148.599 116.482 -36.976  1.00 40.47      A16S
ATOM  17274  N4  C   A 824     149.644 116.512 -36.159  1.00 40.47      A16S
ATOM  17275  C5  C   A 824     148.787 116.222 -38.356  1.00 40.47      A16S
ATOM  17276  C2* C   A 824     145.167 118.219 -39.865  1.00 42.14      A16S
ATOM  17277  O2* C   A 824     143.791 118.496 -39.952  1.00 42.14      A16S
ATOM  17278  C3* C   A 824     145.855 118.309 -41.216  1.00 42.14      A16S
ATOM  17279  O3* C   A 824     145.320 119.361 -41.997  1.00 42.14      A16S
ATOM  17280  P   G   A 825     145.808 120.871 -41.740  1.00 32.98      A16S
ATOM  17281  O1P G   A 825     145.142 121.662 -42.803  1.00 33.50      A16S
ATOM  17282  O2P G   A 825     147.281 120.945 -41.581  1.00 33.50      A16S
ATOM  17283  O5* G   A 825     145.157 121.260 -40.346  1.00 32.98      A16S
ATOM  17284  C5* G   A 825     143.747 121.468 -40.255  1.00 32.98      A16S
ATOM  17285  C4* G   A 825     143.400 121.988 -38.903  1.00 32.98      A16S
ATOM  17286  O4* G   A 825     143.663 120.966 -37.920  1.00 32.98      A16S
ATOM  17287  C1* G   A 825     144.142 121.568 -36.742  1.00 32.98      A16S
ATOM  17288  N9  G   A 825     145.479 121.056 -36.467  1.00 33.50      A16S
ATOM  17289  C4  G   A 825     146.123 121.104 -35.258  1.00 33.50      A16S
ATOM  17290  N3  G   A 825     145.618 121.607 -34.118  1.00 33.50      A16S
ATOM  17291  C2  G   A 825     146.476 121.530 -33.125  1.00 33.50      A16S
ATOM  17292  N2  G   A 825     146.130 121.980 -31.915  1.00 33.50      A16S
ATOM  17293  N1  G   A 825     147.733 121.004 -33.242  1.00 33.50      A16S
ATOM  17294  C6  G   A 825     148.270 120.477 -34.405  1.00 33.50      A16S
ATOM  17295  O6  G   A 825     149.414 120.025 -34.398  1.00 33.50      A16S
ATOM  17296  C5  G   A 825     147.358 120.550 -35.478  1.00 33.50      A16S
ATOM  17297  N7  G   A 825     147.485 120.143 -36.794  1.00 33.50      A16S
ATOM  17298  C8  G   A 825     146.346 120.461 -37.344  1.00 33.50      A16S
ATOM  17299  C2* G   A 825     144.159 123.081 -36.965  1.00 32.98      A16S
ATOM  17300  O2* G   A 825     142.957 123.657 -36.504  1.00 32.98      A16S
ATOM  17301  C3* G   A 825     144.243 123.164 -38.471  1.00 32.98      A16S
ATOM  17302  O3* G   A 825     143.722 124.384 -38.955  1.00 32.98      A16S
ATOM  17303  P   C   A 826     144.688 125.661 -39.089  1.00 28.56      A16S
ATOM  17304  O1P C   A 826     143.868 126.732 -39.706  1.00 35.96      A16S
ATOM  17305  O2P C   A 826     145.931 125.218 -39.772  1.00 35.96      A16S
ATOM  17306  O5* C   A 826     145.044 126.045 -37.578  1.00 28.56      A16S
ATOM  17307  C5* C   A 826     144.015 126.459 -36.673  1.00 28.56      A16S
ATOM  17308  C4* C   A 826     144.540 126.548 -35.265  1.00 28.56      A16S
ATOM  17309  O4* C   A 826     145.041 125.259 -34.852  1.00 28.56      A16S
ATOM  17310  C1* C   A 826     146.086 125.438 -33.913  1.00 28.56      A16S
ATOM  17311  N1  C   A 826     147.283 124.728 -34.387  1.00 35.96      A16S
ATOM  17312  C6  C   A 826     147.385 124.322 -35.684  1.00 35.96      A16S
ATOM  17313  C2  C   A 826     148.324 124.469 -33.477  1.00 35.96      A16S
ATOM  17314  O2  C   A 826     148.216 124.852 -32.301  1.00 35.96      A16S
ATOM  17315  N3  C   A 826     149.412 123.813 -33.903  1.00 35.96      A16S
ATOM  17316  C4  C   A 826     149.490 123.411 -35.168  1.00 35.96      A16S
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ATOM  17317  N4  C   A 826     150.576 122.743 -35.540  1.00 35.96      A16S
ATOM  17318  C5  C   A 826     148.457 123.669 -36.110  1.00 35.96      A16S
ATOM  17319  C2* C   A 826     146.323 126.937 -33.737  1.00 28.56      A16S
ATOM  17320  O2* C   A 826     145.695 127.371 -32.551  1.00 28.56      A16S
ATOM  17321  C3* C   A 826     145.690 127.505 -35.001  1.00 28.56      A16S
ATOM  17322  O3* C   A 826     145.235 128.831 -34.773  1.00 28.56      A16S
ATOM  17323  P   U   A 827     146.224 130.060 -35.045  1.00 28.43      A16S
ATOM  17324  O1P U   A 827     145.501 131.320 -34.743  1.00 46.97      A16S
ATOM  17325  O2P U   A 827     146.786 129.851 -36.395  1.00 46.97      A16S
ATOM  17326  O5* U   A 827     147.381 129.879 -33.962  1.00 28.43      A16S
ATOM  17327  C5* U   A 827     147.206 130.418 -32.640  1.00 28.43      A16S
ATOM  17328  C4* U   A 827     148.478 130.319 -31.823  1.00 28.43      A16S
ATOM  17329  O4* U   A 827     148.844 128.937 -31.642  1.00 28.43      A16S
ATOM  17330  C1* U   A 827     150.242 128.820 -31.559  1.00 28.43      A16S
ATOM  17331  N1  U   A 827     150.676 127.943 -32.653  1.00 46.97      A16S
ATOM  17332  C6  U   A 827     149.831 127.652 -33.692  1.00 46.97      A16S
ATOM  17333  C2  U   A 827     151.946 127.410 -32.601  1.00 46.97      A16S
ATOM  17334  O2  U   A 827     152.737 127.664 -31.712  1.00 46.97      A16S
ATOM  17335  N3  U   A 827     152.258 126.572 -33.638  1.00 46.97      A16S
ATOM  17336  C4  U   A 827     151.452 126.235 -34.698  1.00 46.97      A16S
ATOM  17337  O4  U   A 827     151.878 125.482 -35.568  1.00 46.97      A16S
ATOM  17338  C5  U   A 827     150.167 126.839 -34.684  1.00 46.97      A16S
ATOM  17339  C2* U   A 827     150.820 130.231 -31.606  1.00 28.43      A16S
ATOM  17340  O2* U   A 827     150.923 130.688 -30.275  1.00 28.43      A16S
ATOM  17341  C3* U   A 827     149.729 130.988 -32.346  1.00 28.43      A16S
ATOM  17342  O3* U   A 827     149.748 132.354 -31.977  1.00 28.43      A16S
ATOM  17343  P   A   A 828     149.861 133.474 -33.110  1.00 38.84      A16S
ATOM  17344  O1P A   A 828     150.008 134.752 -32.376  1.00 56.14      A16S
ATOM  17345  O2P A   A 828     148.754 133.297 -34.093  1.00 56.14      A16S
ATOM  17346  O5* A   A 828     151.233 133.167 -33.861  1.00 38.84      A16S
ATOM  17347  C5* A   A 828     152.496 133.305 -33.185  1.00 38.84      A16S
ATOM  17348  C4* A   A 828     152.981 134.725 -33.291  1.00 38.84      A16S
ATOM  17349  O4* A   A 828     153.951 134.979 -32.255  1.00 38.84      A16S
ATOM  17350  C1* A   A 828     154.866 135.958 -32.697  1.00 38.84      A16S
ATOM  17351  N9  A   A 828     156.200 135.373 -32.690  1.00 56.14      A16S
ATOM  17352  C4  A   A 828     157.348 136.037 -32.360  1.00 56.14      A16S
ATOM  17353  N3  A   A 828     157.460 137.317 -31.987  1.00 56.14      A16S
ATOM  17354  C2  A   A 828     158.727 137.618 -31.722  1.00 56.14      A16S
ATOM  17355  N1  A   A 828     159.810 136.844 -31.788  1.00 56.14      A16S
ATOM  17356  C6  A   A 828     159.662 135.564 -32.177  1.00 56.14      A16S
ATOM  17357  N6  A   A 828     160.749 134.798 -32.251  1.00 56.14      A16S
ATOM  17358  C5  A   A 828     158.363 135.119 -32.482  1.00 56.14      A16S
ATOM  17359  N7  A   A 828     157.865 133.892 -32.893  1.00 56.14      A16S
ATOM  17360  C8  A   A 828     156.579 134.098 -33.001  1.00 56.14      A16S
ATOM  17361  C2* A   A 828     154.443 136.390 -34.096  1.00 38.84      A16S
ATOM  17362  O2* A   A 828     153.613 137.532 -33.992  1.00 38.84      A16S
ATOM  17363  C3* A   A 828     153.668 135.171 -34.571  1.00 38.84      A16S
ATOM  17364  O3* A   A 828     152.756 135.545 -35.593  1.00 38.84      A16S
ATOM  17365  P   G   A 829     153.300 135.829 -37.084  1.00 44.09      A16S
ATOM  17366  O1P G   A 829     152.166 136.301 -37.916  1.00 61.07      A16S
ATOM  17367  O2P G   A 829     154.100 134.665 -37.527  1.00 61.07      A16S
ATOM  17368  O5* G   A 829     154.278 137.063 -36.896  1.00 44.09      A16S
ATOM  17369  C5* G   A 829     155.396 137.247 -37.759  1.00 44.09      A16S
ATOM  17370  C4* G   A 829     156.505 137.925 -37.010  1.00 44.09      A16S
ATOM  17371  O4* G   A 829     156.874 137.120 -35.866  1.00 44.09      A16S
ATOM  17372  C1* G   A 829     158.279 137.099 -35.732  1.00 44.09      A16S
ATOM  17373  N9  G   A 829     158.713 135.741 -36.034  1.00 61.07      A16S
ATOM  17374  C4  G   A 829     159.974 135.223 -35.893  1.00 61.07      A16S
ATOM  17375  N3  G   A 829     161.053 135.883 -35.436  1.00 61.07      A16S
ATOM  17376  C2  G   A 829     162.123 135.120 -35.423  1.00 61.07      A16S
ATOM  17377  N2  G   A 829     163.285 135.615 -34.999  1.00 61.07      A16S
ATOM  17378  N1  G   A 829     162.135 133.815 -35.824  1.00 61.07      A16S
ATOM  17379  C6  G   A 829     161.035 133.116 -36.302  1.00 61.07      A16S
ATOM  17380  O6  G   A 829     161.152 131.931 -36.643  1.00 61.07      A16S
ATOM  17381  C5  G   A 829     159.884 133.921 -36.323  1.00 61.07      A16S
ATOM  17382  N7  G   A 829     158.592 133.623 -36.725  1.00 61.07      A16S
ATOM  17383  C8  G   A 829     157.933 134.728 -36.534  1.00 61.07      A16S
ATOM  17384  C2* G   A 829     158.843 138.107 -36.736  1.00 44.09      A16S
ATOM  17385  O2* G   A 829     158.938 139.371 -36.121  1.00 44.09      A16S
ATOM  17386  C3* G   A 829     157.774 138.086 -37.812  1.00 44.09      A16S
ATOM  17387  O3* G   A 829     157.708 139.295 -38.530  1.00 44.09      A16S
ATOM  17388  P   G   A 830     158.411 139.407 -39.962  1.00 45.77      A16S
ATOM  17389  O1P G   A 830     158.269 140.828 -40.345  1.00 43.77      A16S
ATOM  17390  O2P G   A 830     157.911 138.346 -40.880  1.00 43.77      A16S
ATOM  17391  O5* G   A 830     159.945 139.191 -39.618  1.00 45.77      A16S
ATOM  17392  C5* G   A 830     160.604 140.150 -38.801  1.00 45.77      A16S
ATOM  17393  C4* G   A 830     162.043 139.781 -38.594  1.00 45.77      A16S
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ATOM  17394  O4*  G   A 830     162.156 138.600 -37.760  1.00 45.77      A16S
ATOM  17395  C1*  G   A 830     163.346 137.907 -38.088  1.00 45.77      A16S
ATOM  17396  N9   G   A 830     162.988 136.574 -38.555  1.00 43.77      A16S
ATOM  17397  C4   G   A 830     163.811 135.482 -38.587  1.00 43.77      A16S
ATOM  17398  N3   G   A 830     165.079 135.438 -38.142  1.00 43.77      A16S
ATOM  17399  C2   G   A 830     165.618 134.251 -38.319  1.00 43.77      A16S
ATOM  17400  N2   G   A 830     166.865 134.019 -37.910  1.00 43.77      A16S
ATOM  17401  N1   G   A 830     164.973 133.200 -38.902  1.00 43.77      A16S
ATOM  17402  C6   G   A 830     163.669 133.225 -39.370  1.00 43.77      A16S
ATOM  17403  O6   G   A 830     163.182 132.217 -39.891  1.00 43.77      A16S
ATOM  17404  C5   G   A 830     163.073 134.485 -39.170  1.00 43.77      A16S
ATOM  17405  N7   G   A 830     161.797 134.931 -39.479  1.00 43.77      A16S
ATOM  17406  C8   G   A 830     161.790 136.174 -39.089  1.00 43.77      A16S
ATOM  17407  C2*  G   A 830     164.026 138.690 -39.211  1.00 45.77      A16S
ATOM  17408  O2*  G   A 830     164.963 139.596 -38.666  1.00 45.77      A16S
ATOM  17409  C3*  G   A 830     162.852 139.432 -39.819  1.00 45.77      A16S
ATOM  17410  O3*  G   A 830     163.280 140.559 -40.531  1.00 45.77      A16S
ATOM  17411  P    U   A 831     163.465 140.440 -42.113  1.00 51.42      A16S
ATOM  17412  O1P  U   A 831     163.913 141.759 -42.617  1.00 51.77      A16S
ATOM  17413  O2P  U   A 831     162.244 139.819 -42.694  1.00 51.77      A16S
ATOM  17414  O5*  U   A 831     164.663 139.399 -42.244  1.00 51.42      A16S
ATOM  17415  C5*  U   A 831     165.982 139.741 -41.787  1.00 51.42      A16S
ATOM  17416  C4*  U   A 831     166.947 138.614 -42.060  1.00 51.42      A16S
ATOM  17417  O4*  U   A 831     166.636 137.496 -41.197  1.00 51.42      A16S
ATOM  17418  C1*  U   A 831     166.899 136.282 -41.873  1.00 51.42      A16S
ATOM  17419  N1   U   A 831     165.642 135.529 -41.991  1.00 51.77      A16S
ATOM  17420  C6   U   A 831     164.431 136.167 -42.077  1.00 51.77      A16S
ATOM  17421  C2   U   A 831     165.721 134.157 -42.042  1.00 51.77      A16S
ATOM  17422  O2   U   A 831     166.765 133.550 -41.937  1.00 51.77      A16S
ATOM  17423  N3   U   A 831     164.528 133.515 -42.225  1.00 51.77      A16S
ATOM  17424  C4   U   A 831     163.291 134.093 -42.357  1.00 51.77      A16S
ATOM  17425  O4   U   A 831     162.320 133.382 -42.617  1.00 51.77      A16S
ATOM  17426  C5   U   A 831     163.286 135.515 -42.255  1.00 51.77      A16S
ATOM  17427  C2*  U   A 831     167.481 136.630 -43.244  1.00 51.42      A16S
ATOM  17428  O2*  U   A 831     168.897 136.586 -43.196  1.00 51.42      A16S
ATOM  17429  C3*  U   A 831     166.928 138.032 -43.463  1.00 51.42      A16S
ATOM  17430  O3*  U   A 831     167.715 138.783 -44.370  1.00 51.42      A16S
ATOM  17431  P    C   A 832     167.533 138.554 -45.947  1.00 50.02      A16S
ATOM  17432  O1P  C   A 832     168.367 139.588 -46.610  1.00 67.19      A16S
ATOM  17433  O2P  C   A 832     166.088 138.462 -46.268  1.00 67.19      A16S
ATOM  17434  O5*  C   A 832     168.183 137.118 -46.196  1.00 50.02      A16S
ATOM  17435  C5*  C   A 832     169.600 136.924 -46.025  1.00 50.02      A16S
ATOM  17436  C4*  C   A 832     169.999 135.510 -46.371  1.00 50.02      A16S
ATOM  17437  O4*  C   A 832     169.541 134.600 -45.340  1.00 50.02      A16S
ATOM  17438  C1*  C   A 832     169.200 133.352 -45.926  1.00 50.02      A16S
ATOM  17439  N1   C   A 832     167.751 133.124 -45.763  1.00 67.19      A16S
ATOM  17440  C6   C   A 832     166.886 134.172 -45.607  1.00 67.19      A16S
ATOM  17441  C2   C   A 832     167.267 131.810 -45.802  1.00 67.19      A16S
ATOM  17442  O2   C   A 832     168.070 130.876 -45.918  1.00 67.19      A16S
ATOM  17443  N3   C   A 832     165.938 131.595 -45.713  1.00 67.19      A16S
ATOM  17444  C4   C   A 832     165.103 132.626 -45.577  1.00 67.19      A16S
ATOM  17445  N4   C   A 832     163.793 132.367 -45.498  1.00 67.19      A16S
ATOM  17446  C5   C   A 832     165.569 133.971 -45.515  1.00 67.19      A16S
ATOM  17447  C2*  C   A 832     169.528 133.439 -47.415  1.00 50.02      A16S
ATOM  17448  O2*  C   A 832     170.809 132.898 -47.653  1.00 50.02      A16S
ATOM  17449  C3*  C   A 832     169.437 134.938 -47.659  1.00 50.02      A16S
ATOM  17450  O3*  C   A 832     170.143 135.331 -48.820  1.00 50.02      A16S
ATOM  17451  P    U   A 833     169.378 135.345 -50.238  1.00 44.00      A16S
ATOM  17452  O1P  U   A 833     170.310 135.940 -51.228  1.00 64.78      A16S
ATOM  17453  O2P  U   A 833     168.029 135.945 -50.052  1.00 64.78      A16S
ATOM  17454  O5*  U   A 833     169.182 133.803 -50.597  1.00 44.00      A16S
ATOM  17455  C5*  U   A 833     170.312 132.920 -50.638  1.00 44.00      A16S
ATOM  17456  C4*  U   A 833     169.865 131.481 -50.696  1.00 44.00      A16S
ATOM  17457  O4*  U   A 833     169.119 131.152 -49.502  1.00 44.00      A16S
ATOM  17458  C1*  U   A 833     168.124 130.189 -49.810  1.00 44.00      A16S
ATOM  17459  N1   U   A 833     166.806 130.742 -49.462  1.00 64.78      A16S
ATOM  17460  C6   U   A 833     166.568 132.091 -49.512  1.00 64.78      A16S
ATOM  17461  C2   U   A 833     165.804 129.863 -49.104  1.00 64.78      A16S
ATOM  17462  O2   U   A 833     165.975 128.665 -49.012  1.00 64.78      A16S
ATOM  17463  N3   U   A 833     164.588 130.443 -48.852  1.00 64.78      A16S
ATOM  17464  C4   U   A 833     164.278 131.784 -48.910  1.00 64.78      A16S
ATOM  17465  O4   U   A 833     163.107 132.150 -48.752  1.00 64.78      A16S
ATOM  17466  C5   U   A 833     165.375 132.626 -49.253  1.00 64.78      A16S
ATOM  17467  C2*  U   A 833     168.246 129.858 -51.299  1.00 44.00      A16S
ATOM  17468  O2*  U   A 833     169.019 128.686 -51.457  1.00 44.00      A16S
ATOM  17469  C3*  U   A 833     168.945 131.098 -51.838  1.00 44.00      A16S
ATOM  17470  O3*  U   A 833     169.676 130.816 -53.018  1.00 44.00      A16S
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ATOM  17471  P    C   A 834     168.971 131.004 -54.449  1.00 38.83      A16S
ATOM  17472  O1P  C   A 834     170.054 131.148 -55.463  1.00 69.83      A16S
ATOM  17473  O2P  C   A 834     167.936 132.061 -54.338  1.00 69.83      A16S
ATOM  17474  O5*  C   A 834     168.199 129.627 -54.685  1.00 38.83      A16S
ATOM  17475  C5*  C   A 834     168.922 128.401 -54.905  1.00 38.83      A16S
ATOM  17476  C4*  C   A 834     167.968 127.242 -55.020  1.00 38.83      A16S
ATOM  17477  O4*  C   A 834     167.326 126.983 -53.746  1.00 38.83      A16S
ATOM  17478  C1*  C   A 834     165.987 126.563 -53.967  1.00 38.83      A16S
ATOM  17479  N1   C   A 834     165.069 127.505 -53.303  1.00 69.83      A16S
ATOM  17480  C6   C   A 834     165.511 128.706 -52.823  1.00 69.83      A16S
ATOM  17481  C2   C   A 834     163.728 127.149 -53.174  1.00 69.83      A16S
ATOM  17482  O2   C   A 834     163.355 126.061 -53.623  1.00 69.83      A16S
ATOM  17483  N3   C   A 834     162.874 127.995 -52.569  1.00 69.83      A16S
ATOM  17484  C4   C   A 834     163.314 129.163 -52.101  1.00 69.83      A16S
ATOM  17485  N4   C   A 834     162.432 129.974 -51.507  1.00 69.83      A16S
ATOM  17486  C5   C   A 834     164.676 129.556 -52.221  1.00 69.83      A16S
ATOM  17487  C2*  C   A 834     165.750 126.526 -55.474  1.00 38.83      A16S
ATOM  17488  O2*  C   A 834     165.917 125.218 -55.970  1.00 38.83      A16S
ATOM  17489  C3*  C   A 834     166.821 127.474 -55.971  1.00 38.83      A16S
ATOM  17490  O3*  C   A 834     167.170 127.169 -57.281  1.00 38.83      A16S
ATOM  17491  P    U   A 835     166.407 127.908 -58.459  1.00 40.56      A16S
ATOM  17492  O1P  U   A 835     166.990 127.445 -59.739  1.00 57.56      A16S
ATOM  17493  O2P  U   A 835     166.417 129.353 -58.118  1.00 57.56      A16S
ATOM  17494  O5*  U   A 835     164.914 127.374 -58.360  1.00 40.56      A16S
ATOM  17495  C5*  U   A 835     164.560 126.129 -58.957  1.00 40.56      A16S
ATOM  17496  C4*  U   A 835     163.098 125.842 -58.754  1.00 40.56      A16S
ATOM  17497  O4*  U   A 835     162.812 125.772 -57.332  1.00 40.56      A16S
ATOM  17498  C1*  U   A 835     161.486 126.208 -57.084  1.00 40.56      A16S
ATOM  17499  N1   U   A 835     161.543 127.417 -56.257  1.00 57.56      A16S
ATOM  17500  C6   U   A 835     162.699 128.124 -56.120  1.00 57.56      A16S
ATOM  17501  C2   U   A 835     160.386 127.827 -55.642  1.00 57.56      A16S
ATOM  17502  O2   U   A 835     159.341 127.210 -55.715  1.00 57.56      A16S
ATOM  17503  N3   U   A 835     160.493 128.990 -54.933  1.00 57.56      A16S
ATOM  17504  C4   U   A 835     161.616 129.759 -54.777  1.00 57.56      A16S
ATOM  17505  O4   U   A 835     161.541 130.829 -54.172  1.00 57.56      A16S
ATOM  17506  C5   U   A 835     162.775 129.248 -55.419  1.00 57.56      A16S
ATOM  17507  C2*  U   A 835     160.865 126.540 -58.433  1.00 40.56      A16S
ATOM  17508  O2*  U   A 835     160.145 125.404 -58.888  1.00 40.56      A16S
ATOM  17509  C3*  U   A 835     162.107 126.873 -59.252  1.00 40.56      A16S
ATOM  17510  O3*  U   A 835     161.881 126.830 -60.644  1.00 40.56      A16S
ATOM  17511  P    G   A 836     161.337 128.149 -61.375  1.00 66.73      A16S
ATOM  17512  O1P  G   A 836     161.357 127.861 -62.833  1.00 60.31      A16S
ATOM  17513  O2P  G   A 836     162.117 129.300 -60.836  1.00 60.31      A16S
ATOM  17514  O5*  G   A 836     159.816 128.280 -60.890  1.00 66.73      A16S
ATOM  17515  C5*  G   A 836     158.837 127.336 -61.358  1.00 66.73      A16S
ATOM  17516  C4*  G   A 836     157.437 127.637 -60.842  1.00 66.73      A16S
ATOM  17517  O4*  G   A 836     157.344 127.493 -59.401  1.00 66.73      A16S
ATOM  17518  C1*  G   A 836     156.178 128.158 -58.946  1.00 66.73      A16S
ATOM  17519  N9   G   A 836     156.535 129.154 -57.946  1.00 60.31      A16S
ATOM  17520  C4   G   A 836     155.649 129.805 -57.124  1.00 60.31      A16S
ATOM  17521  N3   G   A 836     154.322 129.582 -57.060  1.00 60.31      A16S
ATOM  17522  C2   G   A 836     153.724 130.387 -56.202  1.00 60.31      A16S
ATOM  17523  N2   G   A 836     152.401 130.289 -56.008  1.00 60.31      A16S
ATOM  17524  N1   G   A 836     154.377 131.344 -55.466  1.00 60.31      A16S
ATOM  17525  C6   G   A 836     155.742 131.590 -55.509  1.00 60.31      A16S
ATOM  17526  O6   G   A 836     156.232 132.471 -54.788  1.00 60.31      A16S
ATOM  17527  C5   G   A 836     156.400 130.722 -56.428  1.00 60.31      A16S
ATOM  17528  N7   G   A 836     157.742 130.621 -56.774  1.00 60.31      A16S
ATOM  17529  C8   G   A 836     157.774 129.672 -57.671  1.00 60.31      A16S
ATOM  17530  C2*  G   A 836     155.559 128.872 -60.146  1.00 66.73      A16S
ATOM  17531  O2*  G   A 836     154.506 128.082 -60.673  1.00 66.73      A16S
ATOM  17532  C3*  G   A 836     156.742 128.966 -61.102  1.00 66.73      A16S
ATOM  17533  O3*  G   A 836     156.241 129.117 -62.422  1.00 66.73      A16S
ATOM  17534  P    G   A 837     155.964 130.596 -63.004  1.00 76.33      A16S
ATOM  17535  O1P  G   A 837     155.526 130.342 -64.401  1.00 59.04      A16S
ATOM  17536  O2P  G   A 837     157.121 131.493 -62.746  1.00 59.04      A16S
ATOM  17537  O5*  G   A 837     154.744 131.170 -62.147  1.00 76.33      A16S
ATOM  17538  C5*  G   A 837     153.379 130.816 -62.464  1.00 76.33      A16S
ATOM  17539  C4*  G   A 837     152.416 131.505 -61.522  1.00 76.33      A16S
ATOM  17540  O4*  G   A 837     152.782 131.177 -60.159  1.00 76.33      A16S
ATOM  17541  C1*  G   A 837     152.531 132.284 -59.310  1.00 76.33      A16S
ATOM  17542  N9   G   A 837     153.809 132.750 -58.790  1.00 59.04      A16S
ATOM  17543  C4   G   A 837     153.995 133.732 -57.858  1.00 59.04      A16S
ATOM  17544  N3   G   A 837     153.022 134.402 -57.215  1.00 59.04      A16S
ATOM  17545  C2   G   A 837     153.515 135.320 -56.401  1.00 59.04      A16S
ATOM  17546  N2   G   A 837     152.691 136.076 -55.669  1.00 59.04      A16S
ATOM  17547  N1   G   A 837     154.855 135.568 -56.241  1.00 59.04      A16S
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ATOM  17548  C6  G   A 837     155.875 134.896 -56.902  1.00 59.04      A16S
ATOM  17549  O6  G   A 837     157.059 135.222 -56.708  1.00 59.04      A16S
ATOM  17550  C5  G   A 837     155.358 133.892 -57.763  1.00 59.04      A16S
ATOM  17551  N7  G   A 837     156.015 132.994 -58.588  1.00 59.04      A16S
ATOM  17552  C8  G   A 837     155.057 132.333 -59.171  1.00 59.04      A16S
ATOM  17553  C2* G   A 837     151.883 133.374 -60.158  1.00 76.33      A16S
ATOM  17554  O2* G   A 837     150.480 133.287 -60.014  1.00 76.33      A16S
ATOM  17555  C3* G   A 837     152.402 133.023 -61.550  1.00 76.33      A16S
ATOM  17556  O3* G   A 837     151.580 133.529 -62.593  1.00 76.33      A16S
ATOM  17557  P   G   A 838     151.913 134.959 -63.248  1.00 80.88      A16S
ATOM  17558  O1P G   A 838     150.949 135.104 -64.370  1.00 90.30      A16S
ATOM  17559  O2P G   A 838     153.363 135.060 -63.519  1.00 90.30      A16S
ATOM  17560  O5* G   A 838     151.560 136.004 -62.095  1.00 80.88      A16S
ATOM  17561  C5* G   A 838     150.218 136.086 -61.567  1.00 80.88      A16S
ATOM  17562  C4* G   A 838     150.146 137.065 -60.413  1.00 80.88      A16S
ATOM  17563  O4* G   A 838     151.023 136.621 -59.348  1.00 80.88      A16S
ATOM  17564  C1* G   A 838     151.586 137.743 -58.691  1.00 80.88      A16S
ATOM  17565  N9  G   A 838     153.040 137.634 -58.768  1.00 90.30      A16S
ATOM  17566  C4  G   A 838     153.951 138.248 -57.943  1.00 90.30      A16S
ATOM  17567  N3  G   A 838     153.660 139.093 -56.935  1.00 90.30      A16S
ATOM  17568  C2  G   A 838     154.750 139.508 -56.308  1.00 90.30      A16S
ATOM  17569  N2  G   A 838     154.642 140.371 -55.285  1.00 90.30      A16S
ATOM  17570  N1  G   A 838     156.027 139.113 -56.636  1.00 90.30      A16S
ATOM  17571  C6  G   A 838     156.353 138.241 -57.669  1.00 90.30      A16S
ATOM  17572  O6  G   A 838     157.541 137.940 -57.874  1.00 90.30      A16S
ATOM  17573  C5  G   A 838     155.187 137.800 -58.364  1.00 90.30      A16S
ATOM  17574  N7  G   A 838     155.056 136.943 -59.449  1.00 90.30      A16S
ATOM  17575  C8  G   A 838     153.770 136.879 -59.657  1.00 90.30      A16S
ATOM  17576  C2* G   A 838     151.010 139.008 -59.333  1.00 80.88      A16S
ATOM  17577  O2* G   A 838     149.932 139.478 -58.547  1.00 80.88      A16S
ATOM  17578  C3* G   A 838     150.575 138.495 -60.706  1.00 80.88      A16S
ATOM  17579  O3* G   A 838     149.495 139.255 -61.248  1.00 80.88      A16S
ATOM  17580  P   U   A 839     149.707 140.096 -62.604  1.00121.90      A16S
ATOM  17581  O1P U   A 839     148.383 140.153 -63.269  1.00136.64      A16S
ATOM  17582  O2P U   A 839     150.877 139.573 -63.353  1.00136.64      A16S
ATOM  17583  O5* U   A 839     150.055 141.567 -62.103  1.00121.90      A16S
ATOM  17584  C5* U   A 839     151.054 141.801 -61.097  1.00121.90      A16S
ATOM  17585  C4* U   A 839     150.844 143.161 -60.487  1.00121.90      A16S
ATOM  17586  O4* U   A 839     149.489 143.243 -59.987  1.00121.90      A16S
ATOM  17587  C1* U   A 839     149.450 144.117 -58.874  1.00121.90      A16S
ATOM  17588  N1  U   A 839     148.618 143.514 -57.810  1.00136.64      A16S
ATOM  17589  C6  U   A 839     147.621 142.613 -58.137  1.00136.64      A16S
ATOM  17590  C2  U   A 839     148.829 143.881 -56.471  1.00136.64      A16S
ATOM  17591  O2  U   A 839     149.704 144.654 -56.107  1.00136.64      A16S
ATOM  17592  N3  U   A 839     147.965 143.303 -55.572  1.00136.64      A16S
ATOM  17593  C4  U   A 839     146.943 142.416 -55.845  1.00136.64      A16S
ATOM  17594  O4  U   A 839     146.226 142.019 -54.925  1.00136.64      A16S
ATOM  17595  C5  U   A 839     146.803 142.071 -57.227  1.00136.64      A16S
ATOM  17596  C2* U   A 839     150.885 144.563 -58.557  1.00121.90      A16S
ATOM  17597  O2* U   A 839     151.091 145.879 -59.039  1.00121.90      A16S
ATOM  17598  C3* U   A 839     151.728 143.531 -59.306  1.00121.90      A16S
ATOM  17599  O3* U   A 839     152.954 144.098 -59.783  1.00121.90      A16S
ATOM  17600  P   C   A 840     154.082 144.602 -58.744  1.00201.07      A16S
ATOM  17601  O1P C   A 840     153.424 145.400 -57.675  1.00162.06      A16S
ATOM  17602  O2P C   A 840     155.163 145.218 -59.555  1.00162.06      A16S
ATOM  17603  O5* C   A 840     154.657 143.266 -58.089  1.00201.07      A16S
ATOM  17604  C5* C   A 840     155.684 143.311 -57.066  1.00201.07      A16S
ATOM  17605  C4* C   A 840     156.944 142.641 -57.567  1.00201.07      A16S
ATOM  17606  O4* C   A 840     156.565 141.331 -58.055  1.00201.07      A16S
ATOM  17607  C1* C   A 840     157.258 141.042 -59.248  1.00201.07      A16S
ATOM  17608  N1  C   A 840     156.262 140.749 -60.293  1.00162.06      A16S
ATOM  17609  C6  C   A 840     155.218 141.601 -60.524  1.00162.06      A16S
ATOM  17610  C2  C   A 840     156.391 139.569 -61.045  1.00162.06      A16S
ATOM  17611  O2  C   A 840     157.356 138.812 -60.831  1.00162.06      A16S
ATOM  17612  N3  C   A 840     155.461 139.284 -61.984  1.00162.06      A16S
ATOM  17613  C4  C   A 840     154.441 140.120 -62.191  1.00162.06      A16S
ATOM  17614  N4  C   A 840     153.546 139.794 -63.124  1.00162.06      A16S
ATOM  17615  C5  C   A 840     154.294 141.328 -61.451  1.00162.06      A16S
ATOM  17616  C2* C   A 840     158.217 142.198 -59.545  1.00201.07      A16S
ATOM  17617  O2* C   A 840     159.513 141.844 -59.103  1.00201.07      A16S
ATOM  17618  C3* C   A 840     157.606 143.349 -58.746  1.00201.07      A16S
ATOM  17619  O3* C   A 840     158.676 144.226 -58.341  1.00201.07      A16S
ATOM  17620  P   U   A 841     158.445 145.357 -57.209  1.00200.11      A16S
ATOM  17621  O1P U   A 841     157.030 145.809 -57.237  1.00201.26      A16S
ATOM  17622  O2P U   A 841     159.534 146.356 -57.364  1.00201.26      A16S
ATOM  17623  O5* U   A 841     158.698 144.571 -55.845  1.00200.11      A16S
ATOM  17624  C5* U   A 841     158.901 145.263 -54.592  1.00200.11      A16S
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ATOM  17625  C4*  U   A 841     160.379 145.351 -54.283  1.00200.11      A16S
ATOM  17626  O4*  U   A 841     160.953 146.430 -55.069  1.00200.11      A16S
ATOM  17627  C1*  U   A 841     161.964 147.089 -54.320  1.00200.11      A16S
ATOM  17628  N1   U   A 841     161.582 148.501 -54.137  1.00201.26      A16S
ATOM  17629  C6   U   A 841     160.273 148.922 -54.282  1.00201.26      A16S
ATOM  17630  C2   U   A 841     162.586 149.407 -53.804  1.00201.26      A16S
ATOM  17631  O2   U   A 841     163.757 149.085 -53.662  1.00201.26      A16S
ATOM  17632  N3   U   A 841     162.164 150.705 -53.642  1.00201.26      A16S
ATOM  17633  C4   U   A 841     160.876 151.187 -53.772  1.00201.26      A16S
ATOM  17634  O4   U   A 841     160.659 152.388 -53.597  1.00201.26      A16S
ATOM  17635  C5   U   A 841     159.899 150.197 -54.115  1.00201.26      A16S
ATOM  17636  C2*  U   A 841     162.112 146.351 -52.990  1.00200.11      A16S
ATOM  17637  O2*  U   A 841     163.166 145.412 -53.077  1.00200.11      A16S
ATOM  17638  C3*  U   A 841     160.743 145.697 -52.847  1.00200.11      A16S
ATOM  17639  O3*  U   A 841     160.800 144.537 -52.022  1.00200.11      A16S
ATOM  17640  P    C   A 848     161.261 144.671 -50.485  1.00187.48      A16S
ATOM  17641  O1P  C   A 848     161.043 146.091 -50.077  1.00102.57      A16S
ATOM  17642  O2P  C   A 848     162.619 144.074 -50.365  1.00102.57      A16S
ATOM  17643  O5*  C   A 848     160.232 143.744 -49.693  1.00187.48      A16S
ATOM  17644  C5*  C   A 848     159.242 144.326 -48.826  1.00187.48      A16S
ATOM  17645  C4*  C   A 848     157.855 144.113 -49.385  1.00187.48      A16S
ATOM  17646  O4*  C   A 848     157.878 144.356 -50.822  1.00187.48      A16S
ATOM  17647  C1*  C   A 848     156.927 143.520 -51.467  1.00187.48      A16S
ATOM  17648  N1   C   A 848     157.619 142.595 -52.387  1.00102.57      A16S
ATOM  17649  C6   C   A 848     158.844 142.068 -52.075  1.00102.57      A16S
ATOM  17650  C2   C   A 848     156.978 142.228 -53.581  1.00102.57      A16S
ATOM  17651  O2   C   A 848     155.885 142.748 -53.864  1.00102.57      A16S
ATOM  17652  N3   C   A 848     157.566 141.317 -54.395  1.00102.57      A16S
ATOM  17653  C4   C   A 848     158.749 140.789 -54.066  1.00102.57      A16S
ATOM  17654  N4   C   A 848     159.281 139.879 -54.891  1.00102.57      A16S
ATOM  17655  C5   C   A 848     159.437 141.168 -52.875  1.00102.57      A16S
ATOM  17656  C2*  C   A 848     156.220 142.720 -50.380  1.00187.48      A16S
ATOM  17657  O2*  C   A 848     155.032 143.387 -50.007  1.00187.48      A16S
ATOM  17658  C3*  C   A 848     157.270 142.715 -49.278  1.00187.48      A16S
ATOM  17659  O3*  C   A 848     156.707 142.414 -48.010  1.00187.48      A16S
ATOM  17660  P    C   A 849     156.381 140.881 -47.647  1.00116.10      A16S
ATOM  17661  O1P  C   A 849     155.893 140.800 -46.244  1.00 79.94      A16S
ATOM  17662  O2P  C   A 849     157.552 140.058 -48.064  1.00 79.94      A16S
ATOM  17663  O5*  C   A 849     155.160 140.528 -48.610  1.00116.10      A16S
ATOM  17664  C5*  C   A 849     153.939 141.289 -48.557  1.00116.10      A16S
ATOM  17665  C4*  C   A 849     152.913 140.722 -49.511  1.00116.10      A16S
ATOM  17666  O4*  C   A 849     153.339 140.905 -50.887  1.00116.10      A16S
ATOM  17667  C1*  C   A 849     152.883 139.817 -51.674  1.00116.10      A16S
ATOM  17668  N1   C   A 849     154.047 139.140 -52.273  1.00 79.94      A16S
ATOM  17669  C6   C   A 849     155.320 139.379 -51.829  1.00 79.94      A16S
ATOM  17670  C2   C   A 849     153.824 138.231 -53.311  1.00 79.94      A16S
ATOM  17671  O2   C   A 849     152.657 138.037 -53.696  1.00 79.94      A16S
ATOM  17672  N3   C   A 849     154.878 137.589 -53.867  1.00 79.94      A16S
ATOM  17673  C4   C   A 849     156.115 137.833 -53.429  1.00 79.94      A16S
ATOM  17674  N4   C   A 849     157.124 137.188 -54.019  1.00 79.94      A16S
ATOM  17675  C5   C   A 849     156.371 138.752 -52.371  1.00 79.94      A16S
ATOM  17676  C2*  C   A 849     152.091 138.878 -50.764  1.00116.10      A16S
ATOM  17677  O2*  C   A 849     150.709 139.141 -50.882  1.00116.10      A16S
ATOM  17678  C3*  C   A 849     152.656 139.232 -49.396  1.00116.10      A16S
ATOM  17679  O3*  C   A 849     151.782 138.913 -48.332  1.00116.10      A16S
ATOM  17680  P    U   A 850     152.057 137.588 -47.473  1.00 55.65      A16S
ATOM  17681  O1P  U   A 850     151.071 137.548 -46.360  1.00 88.85      A16S
ATOM  17682  O2P  U   A 850     153.516 137.532 -47.163  1.00 88.85      A16S
ATOM  17683  O5*  U   A 850     151.723 136.420 -48.502  1.00 55.65      A16S
ATOM  17684  C5*  U   A 850     150.442 136.357 -49.141  1.00 55.65      A16S
ATOM  17685  C4*  U   A 850     150.451 135.325 -50.237  1.00 55.65      A16S
ATOM  17686  O4*  U   A 850     151.328 135.754 -51.307  1.00 55.65      A16S
ATOM  17687  C1*  U   A 850     151.910 134.620 -51.929  1.00 55.65      A16S
ATOM  17688  N1   U   A 850     153.374 134.702 -51.815  1.00 88.85      A16S
ATOM  17689  C6   U   A 850     153.989 135.182 -50.679  1.00 88.85      A16S
ATOM  17690  C2   U   A 850     154.121 134.258 -52.891  1.00 88.85      A16S
ATOM  17691  O2   U   A 850     153.621 133.835 -53.918  1.00 88.85      A16S
ATOM  17692  N3   U   A 850     155.479 134.321 -52.719  1.00 88.85      A16S
ATOM  17693  C4   U   A 850     156.156 134.772 -51.610  1.00 88.85      A16S
ATOM  17694  O4   U   A 850     157.386 134.691 -51.583  1.00 88.85      A16S
ATOM  17695  C5   U   A 850     155.317 135.231 -50.544  1.00 88.85      A16S
ATOM  17696  C2*  U   A 850     151.363 133.379 -51.229  1.00 55.65      A16S
ATOM  17697  O2*  U   A 850     150.251 132.884 -51.951  1.00 55.65      A16S
ATOM  17698  C3*  U   A 850     150.971 133.945 -49.874  1.00 55.65      A16S
ATOM  17699  O3*  U   A 850     150.011 133.136 -49.223  1.00 55.65      A16S
ATOM  17700  P    G   A 851     150.510 131.966 -48.243  1.00 69.44      A16S
ATOM  17701  O1P  G   A 851     149.305 131.486 -47.523  1.00 60.40      A16S
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ATOM  17702  O2P G   A 851     151.681 132.453 -47.466  1.00 60.40      A16S
ATOM  17703  O5* G   A 851     151.008 130.811 -49.231  1.00 69.44      A16S
ATOM  17704  C5* G   A 851     150.044 129.945 -49.870  1.00 69.44      A16S
ATOM  17705  C4* G   A 851     150.709 128.877 -50.720  1.00 69.44      A16S
ATOM  17706  O4* G   A 851     151.284 129.444 -51.921  1.00 69.44      A16S
ATOM  17707  C1* G   A 851     152.327 128.609 -52.382  1.00 69.44      A16S
ATOM  17708  N9  G   A 851     153.564 129.380 -52.433  1.00 60.40      A16S
ATOM  17709  C4  G   A 851     154.724 129.043 -53.098  1.00 60.40      A16S
ATOM  17710  N3  G   A 851     154.916 127.950 -53.859  1.00 60.40      A16S
ATOM  17711  C2  G   A 851     156.145 127.889 -54.329  1.00 60.40      A16S
ATOM  17712  N2  G   A 851     156.509 126.862 -55.102  1.00 60.40      A16S
ATOM  17713  N1  G   A 851     157.109 128.829 -54.078  1.00 60.40      A16S
ATOM  17714  C6  G   A 851     156.928 129.973 -53.309  1.00 60.40      A16S
ATOM  17715  O6  G   A 851     157.858 130.786 -53.163  1.00 60.40      A16S
ATOM  17716  C5  G   A 851     155.620 130.043 -52.794  1.00 60.40      A16S
ATOM  17717  N7  G   A 851     155.032 131.004 -51.987  1.00 60.40      A16S
ATOM  17718  C8  G   A 851     153.815 130.571 -51.803  1.00 60.40      A16S
ATOM  17719  C2* G   A 851     152.437 127.441 -51.405  1.00 69.44      A16S
ATOM  17720  O2* G   A 851     151.658 126.385 -51.916  1.00 69.44      A16S
ATOM  17721  C3* G   A 851     151.812 128.012 -50.141  1.00 69.44      A16S
ATOM  17722  O3* G   A 851     151.297 126.943 -49.352  1.00 69.44      A16S
ATOM  17723  P   G   A 852     152.281 126.134 -48.362  1.00 52.80      A16S
ATOM  17724  O1P G   A 852     151.502 125.096 -47.634  1.00 53.18      A16S
ATOM  17725  O2P G   A 852     153.046 127.148 -47.596  1.00 53.18      A16S
ATOM  17726  O5* G   A 852     153.290 125.367 -49.334  1.00 52.80      A16S
ATOM  17727  C5* G   A 852     152.861 124.215 -50.108  1.00 52.80      A16S
ATOM  17728  C4* G   A 852     154.042 123.563 -50.803  1.00 52.80      A16S
ATOM  17729  O4* G   A 852     154.528 124.403 -51.883  1.00 52.80      A16S
ATOM  17730  C1* G   A 852     155.939 124.290 -51.979  1.00 52.80      A16S
ATOM  17731  N9  G   A 852     156.536 125.591 -51.691  1.00 53.18      A16S
ATOM  17732  C4  G   A 852     157.836 125.967 -51.930  1.00 53.18      A16S
ATOM  17733  N3  G   A 852     158.791 125.202 -52.481  1.00 53.18      A16S
ATOM  17734  C2  G   A 852     159.945 125.838 -52.563  1.00 53.18      A16S
ATOM  17735  N2  G   A 852     161.010 125.220 -53.087  1.00 53.18      A16S
ATOM  17736  N1  G   A 852     160.147 127.119 -52.136  1.00 53.18      A16S
ATOM  17737  C6  G   A 852     159.185 127.922 -51.550  1.00 53.18      A16S
ATOM  17738  O6  G   A 852     159.485 129.058 -51.161  1.00 53.18      A16S
ATOM  17739  C5  G   A 852     157.936 127.259 -51.467  1.00 53.18      A16S
ATOM  17740  N7  G   A 852     156.722 127.693 -50.956  1.00 53.18      A16S
ATOM  17741  C8  G   A 852     155.925 126.673 -51.109  1.00 53.18      A16S
ATOM  17742  C2* G   A 852     156.386 123.254 -50.952  1.00 52.80      A16S
ATOM  17743  O2* G   A 852     156.451 121.980 -51.556  1.00 52.80      A16S
ATOM  17744  C3* G   A 852     155.262 123.321 -49.936  1.00 52.80      A16S
ATOM  17745  O3* G   A 852     155.180 122.118 -49.206  1.00 52.80      A16S
ATOM  17746  P   G   A 853     155.987 121.986 -47.825  1.00 36.42      A16S
ATOM  17747  O1P G   A 853     155.644 120.657 -47.246  1.00 60.01      A16S
ATOM  17748  O2P G   A 853     155.734 123.222 -47.031  1.00 60.01      A16S
ATOM  17749  O5* G   A 853     157.532 122.009 -48.233  1.00 36.42      A16S
ATOM  17750  C5* G   A 853     158.140 120.902 -48.920  1.00 36.42      A16S
ATOM  17751  C4* G   A 853     159.587 121.199 -49.264  1.00 36.42      A16S
ATOM  17752  O4* G   A 853     159.680 122.347 -50.148  1.00 36.42      A16S
ATOM  17753  C1* G   A 853     160.956 122.949 -50.010  1.00 36.42      A16S
ATOM  17754  N9  G   A 853     160.808 124.355 -49.659  1.00 60.01      A16S
ATOM  17755  C4  G   A 853     161.805 125.298 -49.682  1.00 60.01      A16S
ATOM  17756  N3  G   A 853     163.077 125.095 -50.081  1.00 60.01      A16S
ATOM  17757  C2  G   A 853     163.809 126.180 -49.951  1.00 60.01      A16S
ATOM  17758  N2  G   A 853     165.087 126.153 -50.299  1.00 60.01      A16S
ATOM  17759  N1  G   A 853     163.336 127.375 -49.468  1.00 60.01      A16S
ATOM  17760  C6  G   A 853     162.023 127.611 -49.057  1.00 60.01      A16S
ATOM  17761  O6  G   A 853     161.681 128.739 -48.636  1.00 60.01      A16S
ATOM  17762  C5  G   A 853     161.228 126.450 -49.191  1.00 60.01      A16S
ATOM  17763  N7  G   A 853     159.890 126.244 -48.896  1.00 60.01      A16S
ATOM  17764  C8  G   A 853     159.683 124.991 -49.200  1.00 60.01      A16S
ATOM  17765  C2* G   A 853     161.692 122.212 -48.899  1.00 36.42      A16S
ATOM  17766  O2* G   A 853     162.574 121.295 -49.506  1.00 36.42      A16S
ATOM  17767  C3* G   A 853     160.551 121.543 -48.145  1.00 36.42      A16S
ATOM  17768  O3* G   A 853     161.034 120.393 -47.481  1.00 36.42      A16S
ATOM  17769  P   G   A 854     161.691 120.545 -46.028  1.00 32.56      A16S
ATOM  17770  O1P G   A 854     161.949 119.185 -45.485  1.00 53.57      A16S
ATOM  17771  O2P G   A 854     160.825 121.487 -45.280  1.00 53.57      A16S
ATOM  17772  O5* G   A 854     163.092 121.253 -46.284  1.00 32.56      A16S
ATOM  17773  C5* G   A 854     164.038 120.630 -47.143  1.00 32.56      A16S
ATOM  17774  C4* G   A 854     165.313 121.422 -47.224  1.00 32.56      A16S
ATOM  17775  O4* G   A 854     165.132 122.639 -47.979  1.00 32.56      A16S
ATOM  17776  C1* G   A 854     166.024 123.629 -47.494  1.00 32.56      A16S
ATOM  17777  N9  G   A 854     165.240 124.811 -47.135  1.00 53.57      A16S
ATOM  17778  C4  G   A 854     165.707 126.057 -46.777  1.00 53.57      A16S
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ATOM 17779 N3 G A 854 166.997 126.422 -46.662 1.00 53.57 A16S
ATOM 17780 C2 G A 854 167.115 127.688 -46.307 1.00 53.57 A16S
ATOM 17781 N2 G A 854 168.316 128.226 -46.135 1.00 53.57 A16S
ATOM 17782 N1 G A 854 166.060 128.522 -46.088 1.00 53.57 A16S
ATOM 17783 C6 G A 854 164.724 128.163 -46.197 1.00 53.57 A16S
ATOM 17784 O6 G A 854 163.834 128.993 -45.965 1.00 53.57 A16S
ATOM 17785 C5 G A 854 164.582 126.821 -46.574 1.00 53.57 A16S
ATOM 17786 N7 G A 854 163.437 126.079 -46.788 1.00 53.57 A16S
ATOM 17787 C8 G A 854 163.873 124.897 -47.111 1.00 53.57 A16S
ATOM 17788 C2* G A 854 166.840 123.001 -46.357 1.00 32.56 A16S
ATOM 17789 O2* G A 854 168.063 122.534 -46.896 1.00 32.56 A16S
ATOM 17790 C3* G A 854 165.949 121.839 -45.920 1.00 32.56 A16S
ATOM 17791 O3* G A 854 166.710 120.753 -45.410 1.00 32.56 A16S
ATOM 17792 P G A 855 167.206 120.775 -43.892 1.00 33.24 A16S
ATOM 17793 O1P G A 855 168.345 119.836 -43.793 1.00 51.78 A16S
ATOM 17794 O2P G A 855 166.040 120.605 -42.996 1.00 51.78 A16S
ATOM 17795 O5* G A 855 167.761 122.255 -43.743 1.00 33.24 A16S
ATOM 17796 C5* G A 855 167.670 122.977 -42.510 1.00 33.24 A16S
ATOM 17797 C4* G A 855 168.673 124.103 -42.516 1.00 33.24 A16S
ATOM 17798 O4* G A 855 168.372 125.023 -43.593 1.00 33.24 A16S
ATOM 17799 C1* G A 855 168.725 126.339 -43.205 1.00 33.24 A16S
ATOM 17800 N9 G A 855 167.527 127.166 -43.221 1.00 51.78 A16S
ATOM 17801 C4 G A 855 167.493 128.519 -43.059 1.00 51.78 A16S
ATOM 17802 N3 G A 855 168.562 129.312 -42.880 1.00 51.78 A16S
ATOM 17803 C2 G A 855 168.217 130.573 -42.735 1.00 51.78 A16S
ATOM 17804 N2 G A 855 169.162 131.497 -42.554 1.00 51.78 A16S
ATOM 17805 N1 G A 855 166.920 131.023 -42.757 1.00 51.78 A16S
ATOM 17806 C6 G A 855 165.801 130.221 -42.935 1.00 51.78 A16S
ATOM 17807 O6 G A 855 164.670 130.726 -42.926 1.00 51.78 A16S
ATOM 17808 C5 G A 855 166.163 128.861 -43.101 1.00 51.78 A16S
ATOM 17809 N7 G A 855 165.375 127.740 -43.302 1.00 51.78 A16S
ATOM 17810 C8 G A 855 166.228 126.757 -43.372 1.00 51.78 A16S
ATOM 17811 C2* G A 855 169.320 126.262 -41.803 1.00 33.24 A16S
ATOM 17812 O2* G A 855 170.719 126.147 -41.914 1.00 33.24 A16S
ATOM 17813 C3* G A 855 168.703 124.978 -41.286 1.00 33.24 A16S
ATOM 17814 O3* G A 855 169.498 124.396 -40.296 1.00 33.24 A16S
ATOM 17815 P C A 856 169.058 124.544 -38.769 1.00 33.22 A16S
ATOM 17816 O1P C A 856 169.858 123.531 -38.020 1.00 50.41 A16S
ATOM 17817 O2P C A 856 167.565 124.509 -38.686 1.00 50.41 A16S
ATOM 17818 O5* C A 856 169.535 126.015 -38.372 1.00 33.22 A16S
ATOM 17819 C5* C A 856 170.926 126.341 -38.312 1.00 33.22 A16S
ATOM 17820 C4* C A 856 171.106 127.829 -38.208 1.00 33.22 A16S
ATOM 17821 O4* C A 856 170.446 128.460 -39.332 1.00 33.22 A16S
ATOM 17822 C1* C A 856 169.876 129.687 -38.922 1.00 33.22 A16S
ATOM 17823 N1 C A 856 168.432 129.642 -39.196 1.00 50.41 A16S
ATOM 17824 C6 C A 856 167.778 128.451 -39.331 1.00 50.41 A16S
ATOM 17825 C2 C A 856 167.741 130.835 -39.321 1.00 50.41 A16S
ATOM 17826 O2 C A 856 168.356 131.893 -39.179 1.00 50.41 A16S
ATOM 17827 N3 C A 856 166.422 130.813 -39.590 1.00 50.41 A16S
ATOM 17828 C4 C A 856 165.792 129.652 -39.727 1.00 50.41 A16S
ATOM 17829 N4 C A 856 164.487 129.676 -39.999 1.00 50.41 A16S
ATOM 17830 C5 C A 856 166.471 128.410 -39.595 1.00 50.41 A16S
ATOM 17831 C2* C A 856 170.216 129.897 -37.444 1.00 33.22 A16S
ATOM 17832 O2* C A 856 171.354 130.719 -37.331 1.00 33.22 A16S
ATOM 17833 C3* C A 856 170.496 128.474 -36.982 1.00 33.22 A16S
ATOM 17834 O3* C A 856 171.400 128.462 -35.893 1.00 33.22 A16S
ATOM 17835 P C A 857 170.823 128.469 -34.395 1.00 41.70 A16S
ATOM 17836 O1P C A 857 171.988 128.479 -33.462 1.00 48.25 A16S
ATOM 17837 O2P C A 857 169.796 127.390 -34.282 1.00 48.25 A16S
ATOM 17838 O5* C A 857 170.064 129.869 -34.280 1.00 41.70 A16S
ATOM 17839 C5* C A 857 170.808 131.094 -34.188 1.00 41.70 A16S
ATOM 17840 C4* C A 857 169.896 132.270 -33.912 1.00 41.70 A16S
ATOM 17841 O4* C A 857 169.081 132.554 -35.071 1.00 41.70 A16S
ATOM 17842 C1* C A 857 167.886 133.183 -34.654 1.00 41.70 A16S
ATOM 17843 N1 C A 857 166.750 132.441 -35.216 1.00 48.25 A16S
ATOM 17844 C6 C A 857 166.919 131.197 -35.752 1.00 48.25 A16S
ATOM 17845 C2 C A 857 165.485 133.034 -35.192 1.00 48.25 A16S
ATOM 17846 O2 C A 857 165.356 134.166 -34.684 1.00 48.25 A16S
ATOM 17847 N3 C A 857 164.437 132.362 -35.715 1.00 48.25 A16S
ATOM 17848 C4 C A 857 164.616 131.152 -36.242 1.00 48.25 A16S
ATOM 17849 N4 C A 857 163.558 130.531 -36.754 1.00 48.25 A16S
ATOM 17850 C5 C A 857 165.890 130.524 -36.269 1.00 48.25 A16S
ATOM 17851 C2* C A 857 167.876 133.224 -33.122 1.00 41.70 A16S
ATOM 17852 O2* C A 857 168.275 134.489 -32.641 1.00 41.70 A16S
ATOM 17853 C3* C A 857 168.903 132.167 -32.769 1.00 41.70 A16S
ATOM 17854 O3* C A 857 169.470 132.504 -31.527 1.00 41.70 A16S
ATOM 17855 P G A 858 168.832 131.900 -30.193 1.00 50.35 A16S

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ATOM  17856  O1P G   A 858     169.580 132.494 -29.046  1.00 47.65      A16S
ATOM  17857  O2P G   A 858     168.791 130.424 -30.348  1.00 47.65      A16S
ATOM  17858  O5* G   A 858     167.315 132.415 -30.217  1.00 50.35      A16S
ATOM  17859  C5* G   A 858     166.957 133.712 -29.675  1.00 50.35      A16S
ATOM  17860  C4* G   A 858     165.569 134.144 -30.125  1.00 50.35      A16S
ATOM  17861  O4* G   A 858     165.413 133.865 -31.538  1.00 50.35      A16S
ATOM  17862  C1* G   A 858     164.080 133.505 -31.810  1.00 50.35      A16S
ATOM  17863  N9   G   A 858     164.087 132.105 -32.206  1.00 47.65      A16S
ATOM  17864  C4   G   A 858     163.077 131.413 -32.818  1.00 47.65      A16S
ATOM  17865  N3   G   A 858     161.875 131.908 -33.157  1.00 47.65      A16S
ATOM  17866  C2   G   A 858     161.119 131.003 -33.734  1.00 47.65      A16S
ATOM  17867  N2   G   A 858     159.885 131.326 -34.127  1.00 47.65      A16S
ATOM  17868  N1   G   A 858     161.515 129.713 -33.969  1.00 47.65      A16S
ATOM  17869  C6   G   A 858     162.754 129.182 -33.631  1.00 47.65      A16S
ATOM  17870  O6   G   A 858     163.022 127.998 -33.899  1.00 47.65      A16S
ATOM  17871  C5   G   A 858     163.566 130.140 -33.002  1.00 47.65      A16S
ATOM  17872  N7   G   A 858     164.853 130.030 -32.504  1.00 47.65      A16S
ATOM  17873  C8   G   A 858     165.119 131.217 -32.039  1.00 47.65      A16S
ATOM  17874  C2* G   A 858     163.284 133.733 -30.530  1.00 50.35      A16S
ATOM  17875  O2* G   A 858     162.833 135.071 -30.560  1.00 50.35      A16S
ATOM  17876  C3* G   A 858     164.349 133.518 -29.463  1.00 50.35      A16S
ATOM  17877  O3* G   A 858     164.017 134.208 -28.253  1.00 50.35      A16S
ATOM  17878  P    A   A 859     162.909 133.598 -27.241  1.00 32.24      A16S
ATOM  17879  O1P A   A 859     162.923 134.467 -26.029  1.00 39.64      A16S
ATOM  17880  O2P A   A 859     163.107 132.136 -27.086  1.00 39.64      A16S
ATOM  17881  O5* A   A 859     161.512 133.845 -27.977  1.00 32.24      A16S
ATOM  17882  C5* A   A 859     161.096 135.188 -28.304  1.00 32.24      A16S
ATOM  17883  C4* A   A 859     159.595 135.366 -28.171  1.00 32.24      A16S
ATOM  17884  O4* A   A 859     158.900 134.928 -29.361  1.00 32.24      A16S
ATOM  17885  C1* A   A 859     157.545 134.692 -29.037  1.00 32.24      A16S
ATOM  17886  N9   A   A 859     157.119 133.403 -29.584  1.00 39.64      A16S
ATOM  17887  C4   A   A 859     155.812 133.015 -29.760  1.00 39.64      A16S
ATOM  17888  N3   A   A 859     154.711 133.731 -29.500  1.00 39.64      A16S
ATOM  17889  C2   A   A 859     153.616 133.026 -29.788  1.00 39.64      A16S
ATOM  17890  N1   A   A 859     153.508 131.785 -30.265  1.00 39.64      A16S
ATOM  17891  C6   A   A 859     154.632 131.091 -30.508  1.00 39.64      A16S
ATOM  17892  N6   A   A 859     154.517 129.850 -30.976  1.00 39.64      A16S
ATOM  17893  C5   A   A 859     155.861 131.726 -30.249  1.00 39.64      A16S
ATOM  17894  N7   A   A 859     157.176 131.309 -30.390  1.00 39.64      A16S
ATOM  17895  C8   A   A 859     157.881 132.341 -29.989  1.00 39.64      A16S
ATOM  17896  C2* A   A 859     157.420 134.737 -27.512  1.00 32.24      A16S
ATOM  17897  O2* A   A 859     156.827 135.951 -27.135  1.00 32.24      A16S
ATOM  17898  C3* A   A 859     158.868 134.655 -27.053  1.00 32.24      A16S
ATOM  17899  O3* A   A 859     159.011 135.292 -25.800  1.00 32.24      A16S
ATOM  17900  P    A   A 860     158.887 134.416 -24.448  1.00 27.20      A16S
ATOM  17901  O1P A   A 860     158.763 135.396 -23.326  1.00 40.82      A16S
ATOM  17902  O2P A   A 860     159.980 133.403 -24.407  1.00 40.82      A16S
ATOM  17903  O5* A   A 860     157.497 133.632 -24.602  1.00 27.20      A16S
ATOM  17904  C5* A   A 860     156.228 134.312 -24.404  1.00 27.20      A16S
ATOM  17905  C4* A   A 860     155.056 133.384 -24.665  1.00 27.20      A16S
ATOM  17906  O4* A   A 860     154.983 133.038 -26.075  1.00 27.20      A16S
ATOM  17907  C1* A   A 860     154.514 131.705 -26.214  1.00 27.20      A16S
ATOM  17908  N9   A   A 860     155.551 130.908 -26.871  1.00 40.82      A16S
ATOM  17909  C4   A   A 860     155.384 129.683 -27.459  1.00 40.82      A16S
ATOM  17910  N3   A   A 860     154.247 128.995 -27.578  1.00 40.82      A16S
ATOM  17911  C2   A   A 860     154.461 127.857 -28.211  1.00 40.82      A16S
ATOM  17912  N1   A   A 860     155.601 127.357 -28.694  1.00 40.82      A16S
ATOM  17913  C6   A   A 860     156.733 128.067 -28.541  1.00 40.82      A16S
ATOM  17914  N6   A   A 860     157.879 127.552 -28.995  1.00 40.82      A16S
ATOM  17915  C5   A   A 860     156.633 129.304 -27.902  1.00 40.82      A16S
ATOM  17916  N7   A   A 860     157.571 130.279 -27.616  1.00 40.82      A16S
ATOM  17917  C8   A   A 860     156.880 131.206 -27.007  1.00 40.82      A16S
ATOM  17918  C2* A   A 860     154.204 131.172 -24.812  1.00 27.20      A16S
ATOM  17919  O2* A   A 860     152.827 131.301 -24.544  1.00 27.20      A16S
ATOM  17920  C3* A   A 860     155.075 132.055 -23.933  1.00 27.20      A16S
ATOM  17921  O3* A   A 860     154.542 132.167 -22.636  1.00 27.20      A16S
ATOM  17922  P    G   A 861     155.293 131.457 -21.414  1.00 27.46      A16S
ATOM  17923  O1P G   A 861     154.524 131.698 -20.167  1.00 45.15      A16S
ATOM  17924  O2P G   A 861     156.738 131.815 -21.464  1.00 45.15      A16S
ATOM  17925  O5* G   A 861     155.161 129.909 -21.741  1.00 27.46      A16S
ATOM  17926  C5* G   A 861     153.869 129.327 -21.961  1.00 27.46      A16S
ATOM  17927  C4* G   A 861     153.980 128.054 -22.776  1.00 27.46      A16S
ATOM  17928  O4* G   A 861     154.474 128.341 -24.114  1.00 27.46      A16S
ATOM  17929  C1* G   A 861     155.240 127.256 -24.583  1.00 27.46      A16S
ATOM  17930  N9   G   A 861     156.597 127.738 -24.797  1.00 45.15      A16S
ATOM  17931  C4   G   A 861     157.620 127.071 -25.415  1.00 45.15      A16S
ATOM  17932  N3   G   A 861     157.557 125.833 -25.929  1.00 45.15      A16S
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ATOM  17933  C2  G   A 861     158.701 125.460 -26.451  1.00 45.15      A16S
ATOM  17934  N2  G   A 861     158.819 124.237 -26.979  1.00 45.15      A16S
ATOM  17935  N1  G   A 861     159.815 126.249 -26.489  1.00 45.15      A16S
ATOM  17936  C6  G   A 861     159.903 127.529 -25.971  1.00 45.15      A16S
ATOM  17937  O6  G   A 861     160.956 128.163 -26.069  1.00 45.15      A16S
ATOM  17938  C5  G   A 861     158.689 127.932 -25.383  1.00 45.15      A16S
ATOM  17939  N7  G   A 861     158.351 129.112 -24.741  1.00 45.15      A16S
ATOM  17940  C8  G   A 861     157.101 128.952 -24.415  1.00 45.15      A16S
ATOM  17941  C2* G   A 861     155.154 126.167 -23.517  1.00 27.46      A16S
ATOM  17942  O2* G   A 861     154.003 125.399 -23.777  1.00 27.46      A16S
ATOM  17943  C3* G   A 861     154.907 126.976 -22.262  1.00 27.46      A16S
ATOM  17944  O3* G   A 861     154.288 126.185 -21.278  1.00 27.46      A16S
ATOM  17945  P   C   A 862     155.197 125.504 -20.153  1.00 27.45      A16S
ATOM  17946  O1P C   A 862     154.363 124.871 -19.095  1.00 32.23      A16S
ATOM  17947  O2P C   A 862     156.216 126.515 -19.773  1.00 32.23      A16S
ATOM  17948  O5* C   A 862     155.922 124.336 -20.952  1.00 27.45      A16S
ATOM  17949  C5* C   A 862     155.162 123.359 -21.704  1.00 27.45      A16S
ATOM  17950  C4* C   A 862     156.100 122.393 -22.395  1.00 27.45      A16S
ATOM  17951  O4* C   A 862     156.758 123.038 -23.507  1.00 27.45      A16S
ATOM  17952  C1* C   A 862     158.095 122.592 -23.585  1.00 27.45      A16S
ATOM  17953  N1  C   A 862     158.997 123.741 -23.438  1.00 32.23      A16S
ATOM  17954  C6  C   A 862     158.554 124.923 -22.937  1.00 32.23      A16S
ATOM  17955  C2  C   A 862     160.319 123.595 -23.812  1.00 32.23      A16S
ATOM  17956  O2  C   A 862     160.682 122.522 -24.307  1.00 32.23      A16S
ATOM  17957  N3  C   A 862     161.170 124.620 -23.640  1.00 32.23      A16S
ATOM  17958  C4  C   A 862     160.732 125.763 -23.140  1.00 32.23      A16S
ATOM  17959  N4  C   A 862     161.602 126.750 -22.979  1.00 32.23      A16S
ATOM  17960  C5  C   A 862     159.380 125.950 -22.779  1.00 32.23      A16S
ATOM  17961  C2* C   A 862     158.315 121.537 -22.507  1.00 27.45      A16S
ATOM  17962  O2* C   A 862     158.147 120.277 -23.111  1.00 27.45      A16S
ATOM  17963  C3* C   A 862     157.221 121.878 -21.511  1.00 27.45      A16S
ATOM  17964  O3* C   A 862     156.770 120.736 -20.813  1.00 27.45      A16S
ATOM  17965  P   U   A 863     157.479 120.309 -19.451  1.00 38.22      A16S
ATOM  17966  O1P U   A 863     156.865 119.024 -19.032  1.00 42.94      A16S
ATOM  17967  O2P U   A 863     157.484 121.465 -18.530  1.00 42.94      A16S
ATOM  17968  O5* U   A 863     158.968 120.001 -19.895  1.00 38.22      A16S
ATOM  17969  C5* U   A 863     159.248 118.861 -20.715  1.00 38.22      A16S
ATOM  17970  C4* U   A 863     160.732 118.693 -20.883  1.00 38.22      A16S
ATOM  17971  O4* U   A 863     161.265 119.658 -21.818  1.00 38.22      A16S
ATOM  17972  C1* U   A 863     162.543 120.070 -21.390  1.00 38.22      A16S
ATOM  17973  N1  U   A 863     162.492 121.517 -21.148  1.00 42.94      A16S
ATOM  17974  C6  U   A 863     161.337 122.115 -20.723  1.00 42.94      A16S
ATOM  17975  C2  U   A 863     163.640 122.251 -21.338  1.00 42.94      A16S
ATOM  17976  O2  U   A 863     164.662 121.778 -21.780  1.00 42.94      A16S
ATOM  17977  N3  U   A 863     163.536 123.573 -21.005  1.00 42.94      A16S
ATOM  17978  C4  U   A 863     162.413 124.224 -20.546  1.00 42.94      A16S
ATOM  17979  O4  U   A 863     162.485 125.408 -20.226  1.00 42.94      A16S
ATOM  17980  C5  U   A 863     161.260 123.407 -20.432  1.00 42.94      A16S
ATOM  17981  C2* U   A 863     162.886 119.271 -20.129  1.00 38.22      A16S
ATOM  17982  O2* U   A 863     163.598 118.112 -20.492  1.00 38.22      A16S
ATOM  17983  C3* U   A 863     161.512 118.897 -19.612  1.00 38.22      A16S
ATOM  17984  O3* U   A 863     161.518 117.696 -18.880  1.00 38.22      A16S
ATOM  17985  P   A   A 864     161.532 117.757 -17.289  1.00 22.99      A16S
ATOM  17986  O1P A   A 864     161.503 116.371 -16.776  1.00 43.96      A16S
ATOM  17987  O2P A   A 864     160.482 118.711 -16.889  1.00 43.96      A16S
ATOM  17988  O5* A   A 864     162.930 118.428 -16.955  1.00 22.99      A16S
ATOM  17989  C5* A   A 864     163.246 118.780 -15.616  1.00 22.99      A16S
ATOM  17990  C4* A   A 864     164.701 118.542 -15.352  1.00 22.99      A16S
ATOM  17991  O4* A   A 864     164.984 117.134 -15.515  1.00 22.99      A16S
ATOM  17992  C1* A   A 864     166.267 116.969 -16.085  1.00 22.99      A16S
ATOM  17993  N9  A   A 864     166.128 116.239 -17.353  1.00 43.96      A16S
ATOM  17994  C4  A   A 864     167.147 115.667 -18.074  1.00 43.96      A16S
ATOM  17995  N3  A   A 864     168.448 115.658 -17.770  1.00 43.96      A16S
ATOM  17996  C2  A   A 864     169.131 115.005 -18.689  1.00 43.96      A16S
ATOM  17997  N1  A   A 864     168.703 114.406 -19.795  1.00 43.96      A16S
ATOM  17998  C6  A   A 864     167.395 114.434 -20.078  1.00 43.96      A16S
ATOM  17999  N6  A   A 864     166.976 113.841 -21.192  1.00 43.96      A16S
ATOM  18000  C5  A   A 864     166.554 115.092 -19.179  1.00 43.96      A16S
ATOM  18001  N7  A   A 864     165.183 115.292 -19.163  1.00 43.96      A16S
ATOM  18002  C8  A   A 864     164.981 115.978 -18.064  1.00 43.96      A16S
ATOM  18003  C2* A   A 864     166.887 118.362 -16.223  1.00 22.99      A16S
ATOM  18004  O2* A   A 864     167.652 118.617 -15.055  1.00 22.99      A16S
ATOM  18005  C3* A   A 864     165.650 119.246 -16.300  1.00 22.99      A16S
ATOM  18006  O3* A   A 864     165.908 120.562 -15.836  1.00 22.99      A16S
ATOM  18007  P   A   A 865     165.485 121.825 -16.733  1.00 23.07      A16S
ATOM  18008  O1P A   A 865     165.269 122.931 -15.785  1.00 34.18      A16S
ATOM  18009  O2P A   A 865     164.395 121.447 -17.670  1.00 34.18      A16S
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ATOM  18010  O5*  A   A 865     166.803 122.165 -17.547  1.00 23.07      A16S
ATOM  18011  C5*  A   A 865     167.998 122.476 -16.829  1.00 23.07      A16S
ATOM  18012  C4*  A   A 865     169.185 121.782 -17.438  1.00 23.07      A16S
ATOM  18013  O4*  A   A 865     168.972 120.347 -17.485  1.00 23.07      A16S
ATOM  18014  C1*  A   A 865     169.519 119.820 -18.674  1.00 23.07      A16S
ATOM  18015  N9   A   A 865     168.425 119.247 -19.452  1.00 34.18      A16S
ATOM  18016  C4   A   A 865     168.521 118.312 -20.450  1.00 34.18      A16S
ATOM  18017  N3   A   A 865     169.636 117.740 -20.927  1.00 34.18      A16S
ATOM  18018  C2   A   A 865     169.334 116.862 -21.885  1.00 34.18      A16S
ATOM  18019  N1   A   A 865     168.138 116.524 -22.382  1.00 34.18      A16S
ATOM  18020  C6   A   A 865     167.043 117.124 -21.885  1.00 34.18      A16S
ATOM  18021  N6   A   A 865     165.859 116.797 -22.388  1.00 34.18      A16S
ATOM  18022  C5   A   A 865     167.224 118.068 -20.863  1.00 34.18      A16S
ATOM  18023  N7   A   A 865     166.330 118.842 -20.144  1.00 34.18      A16S
ATOM  18024  C8   A   A 865     167.090 119.523 -19.328  1.00 34.18      A16S
ATOM  18025  C2*  A   A 865     170.232 120.970 -19.381  1.00 23.07      A16S
ATOM  18026  O2*  A   A 865     171.555 120.975 -18.896  1.00 23.07      A16S
ATOM  18027  C3*  A   A 865     169.471 122.181 -18.860  1.00 23.07      A16S
ATOM  18028  O3*  A   A 865     170.252 123.356 -18.833  1.00 23.07      A16S
ATOM  18029  P    C   A 866     170.268 124.316 -20.114  1.00 34.23      A16S
ATOM  18030  O1P  C   A 866     171.217 125.439 -19.856  1.00 37.93      A16S
ATOM  18031  O2P  C   A 866     168.870 124.613 -20.550  1.00 37.93      A16S
ATOM  18032  O5*  C   A 866     170.882 123.391 -21.250  1.00 34.23      A16S
ATOM  18033  C5*  C   A 866     172.217 122.858 -21.155  1.00 34.23      A16S
ATOM  18034  C4*  C   A 866     172.498 121.988 -22.351  1.00 34.23      A16S
ATOM  18035  O4*  C   A 866     171.761 120.747 -22.249  1.00 34.23      A16S
ATOM  18036  C1*  C   A 866     171.322 120.359 -23.530  1.00 34.23      A16S
ATOM  18037  N1   C   A 866     169.861 120.190 -23.520  1.00 37.93      A16S
ATOM  18038  C6   C   A 866     169.047 121.066 -22.868  1.00 37.93      A16S
ATOM  18039  C2   C   A 866     169.316 119.101 -24.200  1.00 37.93      A16S
ATOM  18040  O2   C   A 866     170.072 118.314 -24.790  1.00 37.93      A16S
ATOM  18041  N3   C   A 866     167.986 118.920 -24.200  1.00 37.93      A16S
ATOM  18042  C4   C   A 866     167.204 119.762 -23.549  1.00 37.93      A16S
ATOM  18043  N4   C   A 866     165.901 119.508 -23.554  1.00 37.93      A16S
ATOM  18044  C5   C   A 866     167.724 120.890 -22.857  1.00 37.93      A16S
ATOM  18045  C2*  C   A 866     171.798 121.403 -24.535  1.00 34.23      A16S
ATOM  18046  O2*  C   A 866     173.002 120.974 -25.114  1.00 34.23      A16S
ATOM  18047  C3*  C   A 866     172.028 122.607 -23.650  1.00 34.23      A16S
ATOM  18048  O3*  C   A 866     173.008 123.467 -24.185  1.00 34.23      A16S
ATOM  18049  P    G   A 867     172.636 124.411 -25.424  1.00 30.00      A16S
ATOM  18050  O1P  G   A 867     173.913 124.897 -26.026  1.00 40.30      A16S
ATOM  18051  O2P  G   A 867     171.614 125.392 -24.998  1.00 40.30      A16S
ATOM  18052  O5*  G   A 867     171.959 123.401 -26.444  1.00 30.00      A16S
ATOM  18053  C5*  G   A 867     170.895 123.819 -27.282  1.00 30.00      A16S
ATOM  18054  C4*  G   A 867     169.990 122.659 -27.560  1.00 30.00      A16S
ATOM  18055  O4*  G   A 867     169.459 122.134 -26.317  1.00 30.00      A16S
ATOM  18056  C1*  G   A 867     168.060 121.948 -26.436  1.00 30.00      A16S
ATOM  18057  N9   G   A 867     167.430 123.000 -25.639  1.00 40.30      A16S
ATOM  18058  C4   G   A 867     166.099 123.143 -25.291  1.00 40.30      A16S
ATOM  18059  N3   G   A 867     165.094 122.313 -25.611  1.00 40.30      A16S
ATOM  18060  C2   G   A 867     163.934 122.739 -25.135  1.00 40.30      A16S
ATOM  18061  N2   G   A 867     162.819 122.035 -25.368  1.00 40.30      A16S
ATOM  18062  N1   G   A 867     163.781 123.880 -24.405  1.00 40.30      A16S
ATOM  18063  C6   G   A 867     164.800 124.744 -24.067  1.00 40.30      A16S
ATOM  18064  O6   G   A 867     164.557 125.743 -23.408  1.00 40.30      A16S
ATOM  18065  C5   G   A 867     166.037 124.309 -24.567  1.00 40.30      A16S
ATOM  18066  N7   G   A 867     167.289 124.883 -24.452  1.00 40.30      A16S
ATOM  18067  C8   G   A 867     168.080 124.073 -25.096  1.00 40.30      A16S
ATOM  18068  C2*  G   A 867     167.738 122.059 -27.933  1.00 30.00      A16S
ATOM  18069  O2*  G   A 867     167.951 120.820 -28.571  1.00 30.00      A16S
ATOM  18070  C3*  G   A 867     168.795 123.039 -28.400  1.00 30.00      A16S
ATOM  18071  O3*  G   A 867     169.115 122.853 -29.763  1.00 30.00      A16S
ATOM  18072  P    C   A 868     168.322 123.673 -30.876  1.00 33.52      A16S
ATOM  18073  O1P  C   A 868     168.793 123.271 -32.227  1.00 48.18      A16S
ATOM  18074  O2P  C   A 868     168.384 125.106 -30.480  1.00 48.18      A16S
ATOM  18075  O5*  C   A 868     166.830 123.140 -30.698  1.00 33.52      A16S
ATOM  18076  C5*  C   A 868     166.500 121.757 -30.940  1.00 33.52      A16S
ATOM  18077  C4*  C   A 868     165.001 121.538 -30.848  1.00 33.52      A16S
ATOM  18078  O4*  C   A 868     164.571 121.556 -29.464  1.00 33.52      A16S
ATOM  18079  C1*  C   A 868     163.273 122.117 -29.381  1.00 33.52      A16S
ATOM  18080  N1   C   A 868     163.351 123.386 -28.631  1.00 48.18      A16S
ATOM  18081  C6   C   A 868     164.551 123.903 -28.241  1.00 48.18      A16S
ATOM  18082  C2   C   A 868     162.170 124.067 -28.346  1.00 48.18      A16S
ATOM  18083  O2   C   A 868     161.088 123.558 -28.677  1.00 48.18      A16S
ATOM  18084  N3   C   A 868     162.232 125.257 -27.716  1.00 48.18      A16S
ATOM  18085  C4   C   A 868     163.408 125.759 -27.360  1.00 48.18      A16S
ATOM  18086  N4   C   A 868     163.423 126.946 -26.763  1.00 48.18      A16S
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ATOM  18087  C5  C   A 868     164.622 125.073 -27.608  1.00 48.18      A16S
ATOM  18088  C2* C   A 868     162.795 122.373 -30.808  1.00 33.52      A16S
ATOM  18089  O2* C   A 868     162.148 121.225 -31.298  1.00 33.52      A16S
ATOM  18090  C3* C   A 868     164.105 122.558 -31.536  1.00 33.52      A16S
ATOM  18091  O3* C   A 868     163.914 122.295 -32.903  1.00 33.52      A16S
ATOM  18092  P   G   A 869     163.857 123.518 -33.934  1.00 23.14      A16S
ATOM  18093  O1P G   A 869     163.530 122.961 -35.269  1.00 52.42      A16S
ATOM  18094  O2P G   A 869     165.085 124.352 -33.756  1.00 52.42      A16S
ATOM  18095  O5* G   A 869     162.601 124.376 -33.469  1.00 23.14      A16S
ATOM  18096  C5* G   A 869     161.262 123.844 -33.521  1.00 23.14      A16S
ATOM  18097  C4* G   A 869     160.288 124.812 -32.877  1.00 23.14      A16S
ATOM  18098  O4* G   A 869     160.636 125.011 -31.485  1.00 23.14      A16S
ATOM  18099  C1* G   A 869     160.410 126.361 -31.130  1.00 23.14      A16S
ATOM  18100  N9  G   A 869     161.672 126.921 -30.678  1.00 52.42      A16S
ATOM  18101  C4  G   A 869     161.830 128.034 -29.918  1.00 52.42      A16S
ATOM  18102  N3  G   A 869     160.842 128.777 -29.405  1.00 52.42      A16S
ATOM  18103  C2  G   A 869     161.306 129.813 -28.743  1.00 52.42      A16S
ATOM  18104  N2  G   A 869     160.457 130.658 -28.145  1.00 52.42      A16S
ATOM  18105  N1  G   A 869     162.636 130.101 -28.614  1.00 52.42      A16S
ATOM  18106  C6  G   A 869     163.670 129.346 -29.145  1.00 52.42      A16S
ATOM  18107  O6  G   A 869     164.843 129.707 -28.997  1.00 52.42      A16S
ATOM  18108  C5  G   A 869     163.186 128.226 -29.829  1.00 52.42      A16S
ATOM  18109  N7  G   A 869     163.870 127.216 -30.481  1.00 52.42      A16S
ATOM  18110  C8  G   A 869     162.929 126.460 -30.964  1.00 52.42      A16S
ATOM  18111  C2* G   A 869     159.848 127.100 -32.350  1.00 23.14      A16S
ATOM  18112  O2* G   A 869     158.445 127.279 -32.238  1.00 23.14      A16S
ATOM  18113  C3* G   A 869     160.272 126.196 -33.498  1.00 23.14      A16S
ATOM  18114  O3* G   A 869     159.297 126.187 -34.510  1.00 23.14      A16S
ATOM  18115  P   U   A 870     159.485 127.092 -35.805  1.00 26.61      A16S
ATOM  18116  O1P U   A 870     160.587 126.503 -36.590  1.00 57.59      A16S
ATOM  18117  O2P U   A 870     159.541 128.514 -35.407  1.00 57.59      A16S
ATOM  18118  O5* U   A 870     158.146 126.842 -36.610  1.00 26.61      A16S
ATOM  18119  C5* U   A 870     157.828 125.540 -37.058  1.00 26.61      A16S
ATOM  18120  C4* U   A 870     156.705 125.600 -38.043  1.00 26.61      A16S
ATOM  18121  O4* U   A 870     155.478 125.909 -37.347  1.00 26.61      A16S
ATOM  18122  C1* U   A 870     154.830 126.995 -37.975  1.00 26.61      A16S
ATOM  18123  N1  U   A 870     154.182 127.804 -36.938  1.00 57.59      A16S
ATOM  18124  C6  U   A 870     154.858 128.144 -35.793  1.00 57.59      A16S
ATOM  18125  C2  U   A 870     152.871 128.210 -37.145  1.00 57.59      A16S
ATOM  18126  O2  U   A 870     152.225 127.920 -38.143  1.00 57.59      A16S
ATOM  18127  N3  U   A 870     152.342 128.964 -36.131  1.00 57.59      A16S
ATOM  18128  C4  U   A 870     152.969 129.334 -34.959  1.00 57.59      A16S
ATOM  18129  O4  U   A 870     152.361 130.009 -34.134  1.00 57.59      A16S
ATOM  18130  C5  U   A 870     154.310 128.869 -34.824  1.00 57.59      A16S
ATOM  18131  C2* U   A 870     155.904 127.752 -38.743  1.00 26.61      A16S
ATOM  18132  O2* U   A 870     155.317 128.426 -39.839  1.00 26.61      A16S
ATOM  18133  C3* U   A 870     156.846 126.623 -39.164  1.00 26.61      A16S
ATOM  18134  O3* U   A 870     156.433 126.047 -40.401  1.00 26.61      A16S
ATOM  18135  P   U   A 871     157.543 125.672 -41.495  1.00 36.11      A16S
ATOM  18136  O1P U   A 871     158.599 126.722 -41.464  1.00 59.49      A16S
ATOM  18137  O2P U   A 871     156.843 125.359 -42.770  1.00 59.49      A16S
ATOM  18138  O5* U   A 871     158.198 124.345 -40.918  1.00 36.11      A16S
ATOM  18139  C5* U   A 871     157.504 123.093 -40.990  1.00 36.11      A16S
ATOM  18140  C4* U   A 871     158.439 121.968 -40.635  1.00 36.11      A16S
ATOM  18141  O4* U   A 871     159.489 121.880 -41.641  1.00 36.11      A16S
ATOM  18142  C1* U   A 871     160.750 121.937 -41.009  1.00 36.11      A16S
ATOM  18143  N1  U   A 871     161.716 122.573 -41.921  1.00 59.49      A16S
ATOM  18144  C6  U   A 871     161.449 123.759 -42.545  1.00 59.49      A16S
ATOM  18145  C2  U   A 871     162.918 121.927 -42.126  1.00 59.49      A16S
ATOM  18146  O2  U   A 871     163.190 120.853 -41.624  1.00 59.49      A16S
ATOM  18147  N3  U   A 871     163.796 122.576 -42.952  1.00 59.49      A16S
ATOM  18148  C4  U   A 871     163.600 123.768 -43.593  1.00 59.49      A16S
ATOM  18149  O4  U   A 871     164.523 124.262 -44.247  1.00 59.49      A16S
ATOM  18150  C5  U   A 871     162.324 124.362 -43.358  1.00 59.49      A16S
ATOM  18151  C2* U   A 871     160.523 122.626 -39.659  1.00 36.11      A16S
ATOM  18152  O2* U   A 871     161.508 122.269 -38.709  1.00 36.11      A16S
ATOM  18153  C3* U   A 871     159.132 122.112 -39.280  1.00 36.11      A16S
ATOM  18154  O3* U   A 871     159.241 120.833 -38.654  1.00 36.11      A16S
ATOM  18155  P   A   A 872     157.995 120.228 -37.832  1.00 25.75      A16S
ATOM  18156  O1P A   A 872     158.215 118.758 -37.743  1.00 40.53      A16S
ATOM  18157  O2P A   A 872     156.735 120.745 -38.420  1.00 40.53      A16S
ATOM  18158  O5* A   A 872     158.158 120.829 -36.366  1.00 25.75      A16S
ATOM  18159  C5* A   A 872     159.419 120.752 -35.706  1.00 25.75      A16S
ATOM  18160  C4* A   A 872     159.250 120.505 -34.228  1.00 25.75      A16S
ATOM  18161  O4* A   A 872     158.984 121.738 -33.523  1.00 25.75      A16S
ATOM  18162  C1* A   A 872     158.085 121.464 -32.492  1.00 25.75      A16S
ATOM  18163  N9  A   A 872     157.500 122.713 -32.013  1.00 40.53      A16S
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ATOM  18164  C4  A   A 872     156.504 123.466 -32.578  1.00 40.53      A16S
ATOM  18165  N3  A   A 872     155.854 123.228 -33.725  1.00 40.53      A16S
ATOM  18166  C2  A   A 872     154.940 124.157 -33.937  1.00 40.53      A16S
ATOM  18167  N1  A   A 872     154.622 125.216 -33.188  1.00 40.53      A16S
ATOM  18168  C6  A   A 872     155.299 125.424 -32.043  1.00 40.53      A16S
ATOM  18169  N6  A   A 872     154.989 126.480 -31.291  1.00 40.53      A16S
ATOM  18170  C5  A   A 872     156.292 124.516 -31.708  1.00 40.53      A16S
ATOM  18171  N7  A   A 872     157.151 124.441 -30.625  1.00 40.53      A16S
ATOM  18172  C8  A   A 872     157.850 123.363 -30.856  1.00 40.53      A16S
ATOM  18173  C2* A   A 872     157.167 120.400 -33.084  1.00 25.75      A16S
ATOM  18174  O2* A   A 872     156.456 119.742 -32.054  1.00 25.75      A16S
ATOM  18175  C3* A   A 872     158.202 119.502 -33.760  1.00 25.75      A16S
ATOM  18176  O3* A   A 872     158.777 118.711 -32.727  1.00 25.75      A16S
ATOM  18177  P   A   A 873     159.445 117.294 -33.072  1.00 26.59      A16S
ATOM  18178  O1P A   A 873     160.728 117.573 -33.734  1.00 33.96      A16S
ATOM  18179  O2P A   A 873     158.471 116.402 -33.738  1.00 33.96      A16S
ATOM  18180  O5* A   A 873     159.754 116.738 -31.622  1.00 26.59      A16S
ATOM  18181  C5* A   A 873     158.690 116.451 -30.712  1.00 26.59      A16S
ATOM  18182  C4* A   A 873     158.863 117.242 -29.447  1.00 26.59      A16S
ATOM  18183  O4* A   A 873     160.217 117.068 -28.979  1.00 26.59      A16S
ATOM  18184  C1* A   A 873     160.858 118.327 -28.891  1.00 26.59      A16S
ATOM  18185  N9  A   A 873     162.254 118.156 -29.319  1.00 33.96      A16S
ATOM  18186  C4  A   A 873     163.382 118.594 -28.668  1.00 33.96      A16S
ATOM  18187  N3  A   A 873     163.448 119.327 -27.551  1.00 33.96      A16S
ATOM  18188  C2  A   A 873     164.709 119.518 -27.188  1.00 33.96      A16S
ATOM  18189  N1  A   A 873     165.827 119.081 -27.760  1.00 33.96      A16S
ATOM  18190  C6  A   A 873     165.727 118.340 -28.878  1.00 33.96      A16S
ATOM  18191  N6  A   A 873     166.842 117.867 -29.434  1.00 33.96      A16S
ATOM  18192  C5  A   A 873     164.448 118.091 -29.382  1.00 33.96      A16S
ATOM  18193  N7  A   A 873     164.009 117.400 -30.501  1.00 33.96      A16S
ATOM  18194  C8  A   A 873     162.705 117.477 -30.425  1.00 33.96      A16S
ATOM  18195  C2* A   A 873     160.024 119.318 -29.708  1.00 26.59      A16S
ATOM  18196  O2* A   A 873     160.093 120.601 -29.100  1.00 26.59      A16S
ATOM  18197  C3* A   A 873     158.620 118.742 -29.563  1.00 26.59      A16S
ATOM  18198  O3* A   A 873     158.106 119.228 -28.317  1.00 26.59      A16S
ATOM  18199  P   G   A 874     156.633 118.807 -27.813  1.00 32.84      A16S
ATOM  18200  O1P G   A 874     156.847 118.085 -26.533  1.00 22.34      A16S
ATOM  18201  O2P G   A 874     155.850 118.166 -28.906  1.00 22.34      A16S
ATOM  18202  O5* G   A 874     155.944 120.196 -27.477  1.00 32.84      A16S
ATOM  18203  C5* G   A 874     156.474 121.056 -26.451  1.00 32.84      A16S
ATOM  18204  C4* G   A 874     155.684 122.329 -26.421  1.00 32.84      A16S
ATOM  18205  O4* G   A 874     155.863 122.998 -27.691  1.00 32.84      A16S
ATOM  18206  C1* G   A 874     154.633 123.538 -28.124  1.00 32.84      A16S
ATOM  18207  N9  G   A 874     154.318 122.964 -29.423  1.00 22.34      A16S
ATOM  18208  C4  G   A 874     153.241 123.294 -30.203  1.00 22.34      A16S
ATOM  18209  N3  G   A 874     152.268 124.177 -29.880  1.00 22.34      A16S
ATOM  18210  C2  G   A 874     151.353 124.276 -30.832  1.00 22.34      A16S
ATOM  18211  N2  G   A 874     150.297 125.075 -30.662  1.00 22.34      A16S
ATOM  18212  N1  G   A 874     151.402 123.590 -32.014  1.00 22.34      A16S
ATOM  18213  C6  G   A 874     152.393 122.679 -32.367  1.00 22.34      A16S
ATOM  18214  O6  G   A 874     152.338 122.107 -33.462  1.00 22.34      A16S
ATOM  18215  C5  G   A 874     153.374 122.543 -31.343  1.00 22.34      A16S
ATOM  18216  N7  G   A 874     154.503 121.739 -31.274  1.00 22.34      A16S
ATOM  18217  C8  G   A 874     155.026 122.018 -30.115  1.00 22.34      A16S
ATOM  18218  C2* G   A 874     153.572 123.246 -27.063  1.00 32.84      A16S
ATOM  18219  O2* G   A 874     153.351 124.400 -26.281  1.00 32.84      A16S
ATOM  18220  C3* G   A 874     154.194 122.065 -26.330  1.00 32.84      A16S
ATOM  18221  O3* G   A 874     153.795 121.923 -24.982  1.00 32.84      A16S
ATOM  18222  P   C   A 875     152.701 120.821 -24.603  1.00 24.82      A16S
ATOM  18223  O1P C   A 875     152.493 120.879 -23.123  1.00 31.53      A16S
ATOM  18224  O2P C   A 875     153.095 119.531 -25.241  1.00 31.53      A16S
ATOM  18225  O5* C   A 875     151.387 121.375 -25.304  1.00 24.82      A16S
ATOM  18226  C5* C   A 875     150.751 122.538 -24.787  1.00 24.82      A16S
ATOM  18227  C4* C   A 875     149.559 122.912 -25.622  1.00 24.82      A16S
ATOM  18228  O4* C   A 875     149.969 123.292 -26.956  1.00 24.82      A16S
ATOM  18229  C1* C   A 875     148.947 122.965 -27.870  1.00 24.82      A16S
ATOM  18230  N1  C   A 875     149.500 122.074 -28.888  1.00 31.53      A16S
ATOM  18231  C6  C   A 875     150.581 121.291 -28.617  1.00 31.53      A16S
ATOM  18232  C2  C   A 875     148.896 122.032 -30.135  1.00 31.53      A16S
ATOM  18233  O2  C   A 875     147.939 122.777 -30.363  1.00 31.53      A16S
ATOM  18234  N3  C   A 875     149.371 121.190 -31.064  1.00 31.53      A16S
ATOM  18235  C4  C   A 875     150.420 120.417 -30.785  1.00 31.53      A16S
ATOM  18236  N4  C   A 875     150.853 119.584 -31.730  1.00 31.53      A16S
ATOM  18237  C5  C   A 875     151.070 120.458 -29.528  1.00 31.53      A16S
ATOM  18238  C2* C   A 875     147.807 122.316 -27.090  1.00 24.82      A16S
ATOM  18239  O2* C   A 875     146.862 123.327 -26.839  1.00 24.82      A16S
ATOM  18240  C3* C   A 875     148.516 121.839 -25.829  1.00 24.82      A16S
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ATOM  18241  O3*  C   A 875     147.661 121.785 -24.698  1.00 24.82      A16S
ATOM  18242  P    G   A 876     147.304 120.362 -24.044  1.00 24.91      A16S
ATOM  18243  O1P  G   A 876     146.737 120.599 -22.696  1.00 37.23      A16S
ATOM  18244  O2P  G   A 876     148.499 119.478 -24.185  1.00 37.23      A16S
ATOM  18245  O5*  G   A 876     146.140 119.821 -24.985  1.00 24.91      A16S
ATOM  18246  C5*  G   A 876     146.342 118.680 -25.834  1.00 24.91      A16S
ATOM  18247  C4*  G   A 876     145.363 118.705 -26.974  1.00 24.91      A16S
ATOM  18248  O4*  G   A 876     145.912 119.440 -28.094  1.00 24.91      A16S
ATOM  18249  C1*  G   A 876     145.432 118.883 -29.311  1.00 24.91      A16S
ATOM  18250  N9   G   A 876     146.558 118.421 -30.114  1.00 37.23      A16S
ATOM  18251  C4   G   A 876     146.527 118.180 -31.458  1.00 37.23      A16S
ATOM  18252  N3   G   A 876     145.462 118.341 -32.259  1.00 37.23      A16S
ATOM  18253  C2   G   A 876     145.741 118.037 -33.510  1.00 37.23      A16S
ATOM  18254  N2   G   A 876     144.795 118.141 -34.450  1.00 37.23      A16S
ATOM  18255  N1   G   A 876     146.964 117.611 -33.936  1.00 37.23      A16S
ATOM  18256  C6   G   A 876     148.070 117.437 -33.125  1.00 37.23      A16S
ATOM  18257  O6   G   A 876     149.124 117.050 -33.611  1.00 37.23      A16S
ATOM  18258  C5   G   A 876     147.789 117.754 -31.785  1.00 37.23      A16S
ATOM  18259  N7   G   A 876     148.602 117.718 -30.664  1.00 37.23      A16S
ATOM  18260  C8   G   A 876     147.832 118.126 -29.697  1.00 37.23      A16S
ATOM  18261  C2*  G   A 876     144.530 117.708 -28.955  1.00 24.91      A16S
ATOM  18262  O2*  G   A 876     143.177 118.130 -28.970  1.00 24.91      A16S
ATOM  18263  C3*  G   A 876     145.041 117.355 -27.571  1.00 24.91      A16S
ATOM  18264  O3*  G   A 876     144.059 116.709 -26.822  1.00 24.91      A16S
ATOM  18265  P    C   A 877     144.099 115.130 -26.708  1.00 18.51      A16S
ATOM  18266  O1P  C   A 877     143.196 114.714 -25.597  1.00 33.95      A16S
ATOM  18267  O2P  C   A 877     145.534 114.790 -26.644  1.00 33.95      A16S
ATOM  18268  O5*  C   A 877     143.497 114.662 -28.103  1.00 18.51      A16S
ATOM  18269  C5*  C   A 877     142.105 114.803 -28.352  1.00 18.51      A16S
ATOM  18270  C4*  C   A 877     141.767 114.281 -29.711  1.00 18.51      A16S
ATOM  18271  O4*  C   A 877     142.393 115.119 -30.707  1.00 18.51      A16S
ATOM  18272  C1*  C   A 877     142.756 114.334 -31.831  1.00 18.51      A16S
ATOM  18273  N1   C   A 877     144.212 114.430 -32.035  1.00 33.95      A16S
ATOM  18274  C6   C   A 877     145.053 114.701 -30.996  1.00 33.95      A16S
ATOM  18275  C2   C   A 877     144.721 114.211 -33.314  1.00 33.95      A16S
ATOM  18276  O2   C   A 877     143.935 113.990 -34.244  1.00 33.95      A16S
ATOM  18277  N3   C   A 877     146.050 114.240 -33.508  1.00 33.95      A16S
ATOM  18278  C4   C   A 877     146.865 114.472 -32.483  1.00 33.95      A16S
ATOM  18279  N4   C   A 877     148.184 114.442 -32.712  1.00 33.95      A16S
ATOM  18280  C5   C   A 877     146.372 114.730 -31.173  1.00 33.95      A16S
ATOM  18281  C2*  C   A 877     142.335 112.889 -31.547  1.00 18.51      A16S
ATOM  18282  O2*  C   A 877     141.095 112.601 -32.156  1.00 18.51      A16S
ATOM  18283  C3*  C   A 877     142.257 112.881 -30.027  1.00 18.51      A16S
ATOM  18284  O3*  C   A 877     141.353 111.894 -29.604  1.00 18.51      A16S
ATOM  18285  P    G   A 878     141.846 110.383 -29.483  1.00 22.09      A16S
ATOM  18286  O1P  G   A 878     140.663 109.622 -29.008  1.00 34.87      A16S
ATOM  18287  O2P  G   A 878     143.117 110.348 -28.700  1.00 34.87      A16S
ATOM  18288  O5*  G   A 878     142.134 109.939 -30.978  1.00 22.09      A16S
ATOM  18289  C5*  G   A 878     141.049 109.718 -31.846  1.00 22.09      A16S
ATOM  18290  C4*  G   A 878     141.523 109.220 -33.175  1.00 22.09      A16S
ATOM  18291  O4*  G   A 878     142.367 110.215 -33.811  1.00 22.09      A16S
ATOM  18292  C1*  G   A 878     143.282 109.564 -34.679  1.00 22.09      A16S
ATOM  18293  N9   G   A 878     144.638 109.926 -34.277  1.00 34.87      A16S
ATOM  18294  C4   G   A 878     145.762 109.875 -35.061  1.00 34.87      A16S
ATOM  18295  N3   G   A 878     145.813 109.480 -36.344  1.00 34.87      A16S
ATOM  18296  C2   G   A 878     147.032 109.575 -36.830  1.00 34.87      A16S
ATOM  18297  N2   G   A 878     147.278 109.243 -38.112  1.00 34.87      A16S
ATOM  18298  N1   G   A 878     148.102 110.005 -36.105  1.00 34.87      A16S
ATOM  18299  C6   G   A 878     148.062 110.397 -34.783  1.00 34.87      A16S
ATOM  18300  O6   G   A 878     149.084 110.748 -34.222  1.00 34.87      A16S
ATOM  18301  C5   G   A 878     146.783 110.319 -34.262  1.00 34.87      A16S
ATOM  18302  N7   G   A 878     146.321 110.632 -32.996  1.00 34.87      A16S
ATOM  18303  C8   G   A 878     145.043 110.383 -33.051  1.00 34.87      A16S
ATOM  18304  C2*  G   A 878     143.037 108.059 -34.561  1.00 22.09      A16S
ATOM  18305  O2*  G   A 878     142.176 107.646 -35.605  1.00 22.09      A16S
ATOM  18306  C3*  G   A 878     142.377 107.973 -33.191  1.00 22.09      A16S
ATOM  18307  O3*  G   A 878     141.654 106.783 -32.977  1.00 22.09      A16S
ATOM  18308  P    C   A 879     142.262 105.699 -31.971  1.00 21.27      A16S
ATOM  18309  O1P  C   A 879     141.219 104.725 -31.572  1.00 23.37      A16S
ATOM  18310  O2P  C   A 879     142.973 106.467 -30.927  1.00 23.37      A16S
ATOM  18311  O5*  C   A 879     143.346 104.962 -32.872  1.00 21.27      A16S
ATOM  18312  C5*  C   A 879     142.918 104.139 -33.971  1.00 21.27      A16S
ATOM  18313  C4*  C   A 879     144.080 103.756 -34.863  1.00 21.27      A16S
ATOM  18314  O4*  C   A 879     144.592 104.914 -35.573  1.00 21.27      A16S
ATOM  18315  C1*  C   A 879     145.974 104.747 -35.815  1.00 21.27      A16S
ATOM  18316  N1   C   A 879     146.721 105.739 -35.023  1.00 23.37      A16S
ATOM  18317  C6   C   A 879     146.257 106.159 -33.809  1.00 23.37      A16S
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ATOM  18318  C2  C   A 879     147.960 106.191 -35.495  1.00 23.37      A16S
ATOM  18319  O2  C   A 879     148.313 105.899 -36.650  1.00 23.37      A16S
ATOM  18320  N3  C   A 879     148.738 106.944 -34.682  1.00 23.37      A16S
ATOM  18321  C4  C   A 879     148.309 107.273 -33.470  1.00 23.37      A16S
ATOM  18322  N4  C   A 879     149.134 107.939 -32.680  1.00 23.37      A16S
ATOM  18323  C5  C   A 879     147.017 106.914 -33.007  1.00 23.37      A16S
ATOM  18324  C2* C   A 879     146.344 103.355 -35.311  1.00 21.27      A16S
ATOM  18325  O2* C   A 879     146.120 102.482 -36.380  1.00 21.27      A16S
ATOM  18326  C3* C   A 879     145.309 103.137 -34.221  1.00 21.27      A16S
ATOM  18327  O3* C   A 879     145.101 101.766 -33.932  1.00 21.27      A16S
ATOM  18328  P   C   A 880     146.051 101.024 -32.875  1.00 22.49      A16S
ATOM  18329  O1P C   A 880     145.564  99.630 -32.749  1.00 28.15      A16S
ATOM  18330  O2P C   A 880     146.194 101.857 -31.674  1.00 28.15      A16S
ATOM  18331  O5* C   A 880     147.430 100.980 -33.655  1.00 22.49      A16S
ATOM  18332  C5* C   A 880     147.495 100.278 -34.901  1.00 22.49      A16S
ATOM  18333  C4* C   A 880     148.890 100.271 -35.447  1.00 22.49      A16S
ATOM  18334  O4* C   A 880     149.285 101.620 -35.769  1.00 22.49      A16S
ATOM  18335  C1* C   A 880     150.672 101.768 -35.550  1.00 22.49      A16S
ATOM  18336  N1  C   A 880     150.874 102.753 -34.478  1.00 28.15      A16S
ATOM  18337  C6  C   A 880     150.032 102.809 -33.403  1.00 28.15      A16S
ATOM  18338  C2  C   A 880     151.962 103.613 -34.563  1.00 28.15      A16S
ATOM  18339  O2  C   A 880     152.689 103.565 -35.574  1.00 28.15      A16S
ATOM  18340  N3  C   A 880     152.203 104.473 -33.547  1.00 28.15      A16S
ATOM  18341  C4  C   A 880     151.409 104.479 -32.478  1.00 28.15      A16S
ATOM  18342  N4  C   A 880     151.733 105.282 -31.463  1.00 28.15      A16S
ATOM  18343  C5  C   A 880     150.262 103.645 -32.391  1.00 28.15      A16S
ATOM  18344  C2* C   A 880     151.214 100.400 -35.140  1.00 22.49      A16S
ATOM  18345  O2* C   A 880     151.579  99.698 -36.311  1.00 22.49      A16S
ATOM  18346  C3* C   A 880     149.983  99.767 -34.527  1.00 22.49      A16S
ATOM  18347  O3* C   A 880     150.082  98.368 -34.546  1.00 22.49      A16S
ATOM  18348  P   G   A 881     150.757  97.627 -33.312  1.00 20.09      A16S
ATOM  18349  O1P G   A 881     150.744  96.186 -33.649  1.00 31.34      A16S
ATOM  18350  O2P G   A 881     150.115  98.091 -32.075  1.00 31.34      A16S
ATOM  18351  O5* G   A 881     152.248  98.178 -33.309  1.00 20.09      A16S
ATOM  18352  C5* G   A 881     153.161  97.758 -34.319  1.00 20.09      A16S
ATOM  18353  C4* G   A 881     154.552  98.267 -34.046  1.00 20.09      A16S
ATOM  18354  O4* G   A 881     154.576  99.707 -34.188  1.00 20.09      A16S
ATOM  18355  C1* G   A 881     155.555 100.250 -33.320  1.00 20.09      A16S
ATOM  18356  N9  G   A 881     154.890 101.101 -32.334  1.00 31.34      A16S
ATOM  18357  C4  G   A 881     155.499 101.992 -31.481  1.00 31.34      A16S
ATOM  18358  N3  G   A 881     156.815 102.292 -31.448  1.00 31.34      A16S
ATOM  18359  C2  G   A 881     157.088 103.166 -30.494  1.00 31.34      A16S
ATOM  18360  N2  G   A 881     158.331 103.589 -30.301  1.00 31.34      A16S
ATOM  18361  N1  G   A 881     156.158 103.692 -29.651  1.00 31.34      A16S
ATOM  18362  C6  G   A 881     154.806 103.389 -29.669  1.00 31.34      A16S
ATOM  18363  O6  G   A 881     154.052 103.905 -28.850  1.00 31.34      A16S
ATOM  18364  C5  G   A 881     154.491 102.472 -30.680  1.00 31.34      A16S
ATOM  18365  N7  G   A 881     153.269 101.930 -31.040  1.00 31.34      A16S
ATOM  18366  C8  G   A 881     153.549 101.135 -32.032  1.00 31.34      A16S
ATOM  18367  C2* G   A 881     156.243  99.072 -32.623  1.00 20.09      A16S
ATOM  18368  O2* G   A 881     157.373  98.699 -33.381  1.00 20.09      A16S
ATOM  18369  C3* G   A 881     155.164  98.000 -32.678  1.00 20.09      A16S
ATOM  18370  O3* G   A 881     155.723  96.692 -32.548  1.00 20.09      A16S
ATOM  18371  P   C   A 882     155.754  95.968 -31.100  1.00 26.49      A16S
ATOM  18372  O1P C   A 882     156.397  94.627 -31.249  1.00 27.69      A16S
ATOM  18373  O2P C   A 882     154.397  96.057 -30.496  1.00 27.69      A16S
ATOM  18374  O5* C   A 882     156.748  96.882 -30.262  1.00 26.49      A16S
ATOM  18375  C5* C   A 882     158.091  97.073 -30.720  1.00 26.49      A16S
ATOM  18376  C4* C   A 882     158.799  98.118 -29.896  1.00 26.49      A16S
ATOM  18377  O4* C   A 882     158.215  99.434 -30.105  1.00 26.49      A16S
ATOM  18378  C1* C   A 882     158.304 100.183 -28.903  1.00 26.49      A16S
ATOM  18379  N1  C   A 882     156.941 100.469 -28.411  1.00 27.69      A16S
ATOM  18380  C6  C   A 882     155.867  99.757 -28.862  1.00 27.69      A16S
ATOM  18381  C2  C   A 882     156.768 101.465 -27.442  1.00 27.69      A16S
ATOM  18382  O2  C   A 882     157.739 102.138 -27.082  1.00 27.69      A16S
ATOM  18383  N3  C   A 882     155.549 101.669 -26.922  1.00 27.69      A16S
ATOM  18384  C4  C   A 882     154.522 100.933 -27.331  1.00 27.69      A16S
ATOM  18385  N4  C   A 882     153.351 101.123 -26.731  1.00 27.69      A16S
ATOM  18386  C5  C   A 882     154.653  99.956 -28.354  1.00 27.69      A16S
ATOM  18387  C2* C   A 882     159.058  99.323 -27.891  1.00 26.49      A16S
ATOM  18388  O2* C   A 882     160.437  99.606 -27.982  1.00 26.49      A16S
ATOM  18389  C3* C   A 882     158.759  97.925 -28.396  1.00 26.49      A16S
ATOM  18390  O3* C   A 882     159.726  97.003 -27.967  1.00 26.49      A16S
ATOM  18391  P   C   A 883     159.635  96.409 -26.480  1.00 21.09      A16S
ATOM  18392  O1P C   A 883     160.717  95.385 -26.354  1.00 29.52      A16S
ATOM  18393  O2P C   A 883     158.221  96.041 -26.168  1.00 29.52      A16S
ATOM  18394  O5* C   A 883     160.023  97.643 -25.556  1.00 21.09      A16S
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ATOM  18395  C5* C   A 883     161.337  98.219 -25.628  1.00 21.09      A16S
ATOM  18396  C4* C   A 883     161.574  99.106 -24.444  1.00 21.09      A16S
ATOM  18397  O4* C   A 883     160.676 100.230 -24.512  1.00 21.09      A16S
ATOM  18398  C1* C   A 883     160.247 100.568 -23.213  1.00 21.09      A16S
ATOM  18399  N1  C   A 883     158.777 100.589 -23.187  1.00 29.52      A16S
ATOM  18400  C6  C   A 883     158.041  99.860 -24.070  1.00 29.52      A16S
ATOM  18401  C2  C   A 883     158.151 101.393 -22.256  1.00 29.52      A16S
ATOM  18402  O2  C   A 883     158.843 101.992 -21.433  1.00 29.52      A16S
ATOM  18403  N3  C   A 883     156.814 101.497 -22.262  1.00 29.52      A16S
ATOM  18404  C4  C   A 883     156.105 100.813 -23.147  1.00 29.52      A16S
ATOM  18405  N4  C   A 883     154.789 100.975 -23.145  1.00 29.52      A16S
ATOM  18406  C5  C   A 883     156.714  99.942 -24.082  1.00 29.52      A16S
ATOM  18407  C2* C   A 883     160.913  99.618 -22.223  1.00 21.09      A16S
ATOM  18408  O2* C   A 883     162.054 100.264 -21.729  1.00 21.09      A16S
ATOM  18409  C3* C   A 883     161.285  98.448 -23.115  1.00 21.09      A16S
ATOM  18410  O3* C   A 883     162.452  97.809 -22.659  1.00 21.09      A16S
ATOM  18411  P   U   A 884     162.326  96.550 -21.687  1.00 19.82      A16S
ATOM  18412  O1P U   A 884     163.691  96.017 -21.438  1.00 44.93      A16S
ATOM  18413  O2P U   A 884     161.261  95.656 -22.197  1.00 44.93      A16S
ATOM  18414  O5* U   A 884     161.815  97.196 -20.337  1.00 19.82      A16S
ATOM  18415  C5* U   A 884     162.625  98.147 -19.667  1.00 19.82      A16S
ATOM  18416  C4* U   A 884     162.028  98.476 -18.343  1.00 19.82      A16S
ATOM  18417  O4* U   A 884     160.813  99.243 -18.541  1.00 19.82      A16S
ATOM  18418  C1* U   A 884     159.758  98.623 -17.850  1.00 19.82      A16S
ATOM  18419  N1  U   A 884     158.493  98.913 -18.547  1.00 44.93      A16S
ATOM  18420  C6  U   A 884     158.183  98.341 -19.750  1.00 44.93      A16S
ATOM  18421  C2  U   A 884     157.613  99.787 -17.935  1.00 44.93      A16S
ATOM  18422  O2  U   A 884     157.862 100.355 -16.888  1.00 44.93      A16S
ATOM  18423  N3  U   A 884     156.432  99.984 -18.600  1.00 44.93      A16S
ATOM  18424  C4  U   A 884     156.054  99.426 -19.792  1.00 44.93      A16S
ATOM  18425  O4  U   A 884     154.922  99.626 -20.219  1.00 44.93      A16S
ATOM  18426  C5  U   A 884     157.025  98.567 -20.378  1.00 44.93      A16S
ATOM  18427  C2* U   A 884     160.156  97.152 -17.690  1.00 19.82      A16S
ATOM  18428  O2* U   A 884     159.511  96.576 -16.568  1.00 19.82      A16S
ATOM  18429  C3* U   A 884     161.671  97.262 -17.506  1.00 19.82      A16S
ATOM  18430  O3* U   A 884     161.979  97.572 -16.163  1.00 19.82      A16S
ATOM  18431  P   G   A 885     163.048  96.690 -15.356  1.00 25.03      A16S
ATOM  18432  O1P G   A 885     163.038  95.299 -15.870  1.00 28.06      A16S
ATOM  18433  O2P G   A 885     162.767  96.956 -13.922  1.00 28.06      A16S
ATOM  18434  O5* G   A 885     164.462  97.321 -15.697  1.00 25.03      A16S
ATOM  18435  C5* G   A 885     164.600  98.731 -15.804  1.00 25.03      A16S
ATOM  18436  C4* G   A 885     165.926  99.168 -15.265  1.00 25.03      A16S
ATOM  18437  O4* G   A 885     165.972  99.000 -13.826  1.00 25.03      A16S
ATOM  18438  C1* G   A 885     167.291  98.666 -13.431  1.00 25.03      A16S
ATOM  18439  N9  G   A 885     167.273  97.319 -12.874  1.00 28.06      A16S
ATOM  18440  C4  G   A 885     168.319  96.678 -12.245  1.00 28.06      A16S
ATOM  18441  N3  G   A 885     169.530  97.203 -11.985  1.00 28.06      A16S
ATOM  18442  C2  G   A 885     170.334  96.329 -11.420  1.00 28.06      A16S
ATOM  18443  N2  G   A 885     171.575  96.676 -11.124  1.00 28.06      A16S
ATOM  18444  N1  G   A 885     169.983  95.048 -11.118  1.00 28.06      A16S
ATOM  18445  C6  G   A 885     168.751  94.480 -11.384  1.00 28.06      A16S
ATOM  18446  O6  G   A 885     168.554  93.300 -11.110  1.00 28.06      A16S
ATOM  18447  C5  G   A 885     167.869  95.408 -11.990  1.00 28.06      A16S
ATOM  18448  N7  G   A 885     166.557  95.261 -12.408  1.00 28.06      A16S
ATOM  18449  C8  G   A 885     166.243  96.423 -12.917  1.00 28.06      A16S
ATOM  18450  C2* G   A 885     168.153  98.666 -14.693  1.00 25.03      A16S
ATOM  18451  O2* G   A 885     168.801  99.913 -14.887  1.00 25.03      A16S
ATOM  18452  C3* G   A 885     167.106  98.365 -15.750  1.00 25.03      A16S
ATOM  18453  O3* G   A 885     167.512  98.657 -17.061  1.00 25.03      A16S
ATOM  18454  P   G   A 886     168.222  97.501 -17.907  1.00 36.86      A16S
ATOM  18455  O1P G   A 886     168.519  98.089 -19.229  1.00 25.26      A16S
ATOM  18456  O2P G   A 886     167.413  96.258 -17.810  1.00 25.26      A16S
ATOM  18457  O5* G   A 886     169.601  97.255 -17.152  1.00 36.86      A16S
ATOM  18458  C5* G   A 886     170.574  98.299 -17.103  1.00 36.86      A16S
ATOM  18459  C4* G   A 886     171.889  97.792 -16.572  1.00 36.86      A16S
ATOM  18460  O4* G   A 886     171.750  97.438 -15.180  1.00 36.86      A16S
ATOM  18461  C1* G   A 886     172.652  96.404 -14.863  1.00 36.86      A16S
ATOM  18462  N9  G   A 886     171.886  95.257 -14.405  1.00 25.26      A16S
ATOM  18463  C4  G   A 886     172.390  94.185 -13.733  1.00 25.26      A16S
ATOM  18464  N3  G   A 886     173.675  94.016 -13.389  1.00 25.26      A16S
ATOM  18465  C2  G   A 886     173.869  92.870 -12.777  1.00 25.26      A16S
ATOM  18466  N2  G   A 886     175.114  92.526 -12.394  1.00 25.26      A16S
ATOM  18467  N1  G   A 886     172.868  91.972 -12.501  1.00 25.26      A16S
ATOM  18468  C6  G   A 886     171.536  92.132 -12.840  1.00 25.26      A16S
ATOM  18469  O6  G   A 886     170.720  91.264 -12.543  1.00 25.26      A16S
ATOM  18470  C5  G   A 886     171.319  93.347 -13.516  1.00 25.26      A16S
ATOM  18471  N7  G   A 886     170.155  93.887 -14.042  1.00 25.26      A16S
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ATOM  18472  C8  G   A 886     170.540  95.024 -14.558  1.00 25.26      A16S
ATOM  18473  C2* G   A 886     173.433  96.077 -16.126  1.00 36.86      A16S
ATOM  18474  O2* G   A 886     174.610  96.859 -16.141  1.00 36.86      A16S
ATOM  18475  C3* G   A 886     172.468  96.542 -17.199  1.00 36.86      A16S
ATOM  18476  O3* G   A 886     173.121  96.779 -18.431  1.00 36.86      A16S
ATOM  18477  P   G   A 887     173.149  95.606 -19.530  1.00 39.41      A16S
ATOM  18478  O1P G   A 887     173.917  96.151 -20.685  1.00 23.58      A16S
ATOM  18479  O2P G   A 887     171.772  95.103 -19.730  1.00 23.58      A16S
ATOM  18480  O5* G   A 887     173.962  94.432 -18.822  1.00 39.41      A16S
ATOM  18481  C5* G   A 887     175.357  94.595 -18.571  1.00 39.41      A16S
ATOM  18482  C4* G   A 887     175.924  93.407 -17.839  1.00 39.41      A16S
ATOM  18483  O4* G   A 887     175.289  93.251 -16.549  1.00 39.41      A16S
ATOM  18484  C1* G   A 887     175.364  91.897 -16.151  1.00 39.41      A16S
ATOM  18485  N9  G   A 887     174.016  91.375 -16.003  1.00 23.58      A16S
ATOM  18486  C4  G   A 887     173.681  90.204 -15.394  1.00 23.58      A16S
ATOM  18487  N3  G   A 887     174.540  89.352 -14.807  1.00 23.58      A16S
ATOM  18488  C2  G   A 887     173.924  88.290 -14.328  1.00 23.58      A16S
ATOM  18489  N2  G   A 887     174.631  87.332 -13.710  1.00 23.58      A16S
ATOM  18490  N1  G   A 887     172.568  88.090 -14.420  1.00 23.58      A16S
ATOM  18491  C6  G   A 887     171.669  88.969 -15.019  1.00 23.58      A16S
ATOM  18492  O6  G   A 887     170.468  88.704 -15.048  1.00 23.58      A16S
ATOM  18493  C5  G   A 887     172.316  90.095 -15.533  1.00 23.58      A16S
ATOM  18494  N7  G   A 887     171.801  91.186 -16.206  1.00 23.58      A16S
ATOM  18495  C8  G   A 887     172.846  91.924 -16.463  1.00 23.58      A16S
ATOM  18496  C2* G   A 887     176.065  91.137 -17.266  1.00 39.41      A16S
ATOM  18497  O2* G   A 887     177.438  91.054 -16.941  1.00 39.41      A16S
ATOM  18498  C3* G   A 887     175.782  92.036 -18.461  1.00 39.41      A16S
ATOM  18499  O3* G   A 887     176.692  91.820 -19.518  1.00 39.41      A16S
ATOM  18500  P   G   A 888     176.269  90.881 -20.752  1.00 34.60      A16S
ATOM  18501  O1P G   A 888     177.566  90.683 -21.465  1.00 31.69      A16S
ATOM  18502  O2P G   A 888     175.104  91.441 -21.490  1.00 31.69      A16S
ATOM  18503  O5* G   A 888     175.822  89.513 -20.073  1.00 34.60      A16S
ATOM  18504  C5* G   A 888     176.793  88.704 -19.409  1.00 34.60      A16S
ATOM  18505  C4* G   A 888     176.172  87.436 -18.908  1.00 34.60      A16S
ATOM  18506  O4* G   A 888     175.220  87.743 -17.875  1.00 34.60      A16S
ATOM  18507  C1* G   A 888     174.101  86.889 -17.981  1.00 34.60      A16S
ATOM  18508  N9  G   A 888     172.970  87.748 -18.309  1.00 31.69      A16S
ATOM  18509  C4  G   A 888     171.647  87.531 -18.036  1.00 31.69      A16S
ATOM  18510  N3  G   A 888     171.132  86.458 -17.412  1.00 31.69      A16S
ATOM  18511  C2  G   A 888     169.819  86.538 -17.305  1.00 31.69      A16S
ATOM  18512  N2  G   A 888     169.131  85.557 -16.719  1.00 31.69      A16S
ATOM  18513  N1  G   A 888     169.077  87.585 -17.767  1.00 31.69      A16S
ATOM  18514  C6  G   A 888     169.590  88.704 -18.414  1.00 31.69      A16S
ATOM  18515  O6  G   A 888     168.825  89.608 -18.807  1.00 31.69      A16S
ATOM  18516  C5  G   A 888     170.989  88.632 -18.535  1.00 31.69      A16S
ATOM  18517  N7  G   A 888     171.880  89.523 -19.109  1.00 31.69      A16S
ATOM  18518  C8  G   A 888     173.039  88.957 -18.957  1.00 31.69      A16S
ATOM  18519  C2* G   A 888     174.431  85.852 -19.059  1.00 34.60      A16S
ATOM  18520  O2* G   A 888     175.052  84.718 -18.461  1.00 34.60      A16S
ATOM  18521  C3* G   A 888     175.405  86.630 -19.931  1.00 34.60      A16S
ATOM  18522  O3* G   A 888     176.312  85.785 -20.597  1.00 34.60      A16S
ATOM  18523  P   A   A 889     175.936  85.174 -22.019  1.00 49.84      A16S
ATOM  18524  O1P A   A 889     175.000  84.031 -21.808  1.00 28.93      A16S
ATOM  18525  O2P A   A 889     177.237  84.947 -22.676  1.00 28.93      A16S
ATOM  18526  O5* A   A 889     175.198  86.349 -22.783  1.00 49.84      A16S
ATOM  18527  C5* A   A 889     175.280  86.433 -24.205  1.00 49.84      A16S
ATOM  18528  C4* A   A 889     174.348  87.494 -24.706  1.00 49.84      A16S
ATOM  18529  O4* A   A 889     172.992  87.077 -24.435  1.00 49.84      A16S
ATOM  18530  C1* A   A 889     172.349  88.052 -23.654  1.00 49.84      A16S
ATOM  18531  N9  A   A 889     171.444  87.357 -22.754  1.00 28.93      A16S
ATOM  18532  C4  A   A 889     170.122  87.644 -22.591  1.00 28.93      A16S
ATOM  18533  N3  A   A 889     169.427  88.616 -23.195  1.00 28.93      A16S
ATOM  18534  C2  A   A 889     168.157  88.600 -22.788  1.00 28.93      A16S
ATOM  18535  N1  A   A 889     167.553  87.778 -21.925  1.00 28.93      A16S
ATOM  18536  C6  A   A 889     168.283  86.798 -21.355  1.00 28.93      A16S
ATOM  18537  N6  A   A 889     167.675  85.947 -20.528  1.00 28.93      A16S
ATOM  18538  C5  A   A 889     169.646  86.724 -21.684  1.00 28.93      A16S
ATOM  18539  N7  A   A 889     170.661  85.878 -21.269  1.00 28.93      A16S
ATOM  18540  C8  A   A 889     171.703  86.297 -21.932  1.00 28.93      A16S
ATOM  18541  C2* A   A 889     173.454  88.864 -22.977  1.00 49.84      A16S
ATOM  18542  O2* A   A 889     173.013  90.183 -22.723  1.00 49.84      A16S
ATOM  18543  C3* A   A 889     174.525  88.859 -24.055  1.00 49.84      A16S
ATOM  18544  O3* A   A 889     174.129  89.831 -24.999  1.00 49.84      A16S
ATOM  18545  P   G   A 890     175.215  90.564 -25.900  1.00 48.48      A16S
ATOM  18546  O1P G   A 890     176.099  89.513 -26.460  1.00 59.80      A16S
ATOM  18547  O2P G   A 890     175.794  91.663 -25.087  1.00 59.80      A16S
ATOM  18548  O5* G   A 890     174.326  91.208 -27.054  1.00 48.48      A16S
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ATOM  18549  C5* G   A 890     174.163  90.559 -28.332  1.00 48.48      A16S
ATOM  18550  C4* G   A 890     173.046  89.529 -28.279  1.00 48.48      A16S
ATOM  18551  O4* G   A 890     171.769  90.148 -27.942  1.00 48.48      A16S
ATOM  18552  C1* G   A 890     170.794  89.687 -28.850  1.00 48.48      A16S
ATOM  18553  N9  G   A 890     169.654  90.595 -28.855  1.00 59.80      A16S
ATOM  18554  C4  G   A 890     168.464  90.387 -28.202  1.00 59.80      A16S
ATOM  18555  N3  G   A 890     168.152  89.310 -27.459  1.00 59.80      A16S
ATOM  18556  C2  G   A 890     166.938  89.395 -26.959  1.00 59.80      A16S
ATOM  18557  N2  G   A 890     166.463  88.407 -26.198  1.00 59.80      A16S
ATOM  18558  N1  G   A 890     166.098  90.454 -27.167  1.00 59.80      A16S
ATOM  18559  C6  G   A 890     166.398  91.575 -27.931  1.00 59.80      A16S
ATOM  18560  O6  G   A 890     165.560  92.483 -28.060  1.00 59.80      A16S
ATOM  18561  C5  G   A 890     167.697  91.493 -28.476  1.00 59.80      A16S
ATOM  18562  N7  G   A 890     168.385  92.379 -29.289  1.00 59.80      A16S
ATOM  18563  C8  G   A 890     169.540  91.805 -29.490  1.00 59.80      A16S
ATOM  18564  C2* G   A 890     171.570  89.490 -30.144  1.00 48.48      A16S
ATOM  18565  O2* G   A 890     170.880  88.698 -31.073  1.00 48.48      A16S
ATOM  18566  C3* G   A 890     172.803  88.795 -29.597  1.00 48.48      A16S
ATOM  18567  O3* G   A 890     172.444  87.449 -29.297  1.00 48.48      A16S
ATOM  18568  P   U   A 891     172.568  86.311 -30.422  1.00 25.72      A16S
ATOM  18569  O1P U   A 891     173.687  86.748 -31.285  1.00 46.66      A16S
ATOM  18570  O2P U   A 891     171.241  86.024 -31.043  1.00 46.66      A16S
ATOM  18571  O5* U   A 891     173.001  85.026 -29.584  1.00 25.72      A16S
ATOM  18572  C5* U   A 891     174.350  84.875 -29.138  1.00 25.72      A16S
ATOM  18573  C4* U   A 891     174.393  84.201 -27.791  1.00 25.72      A16S
ATOM  18574  O4* U   A 891     173.872  85.091 -26.773  1.00 25.72      A16S
ATOM  18575  C1* U   A 891     173.188  84.337 -25.784  1.00 25.72      A16S
ATOM  18576  N1  U   A 891     171.799  84.823 -25.708  1.00 46.66      A16S
ATOM  18577  C6  U   A 891     171.321  85.796 -26.557  1.00 46.66      A16S
ATOM  18578  C2  U   A 891     170.985  84.270 -24.742  1.00 46.66      A16S
ATOM  18579  O2  U   A 891     171.359  83.391 -23.985  1.00 46.66      A16S
ATOM  18580  N3  U   A 891     169.714  84.778 -24.697  1.00 46.66      A16S
ATOM  18581  C4  U   A 891     169.180  85.751 -25.502  1.00 46.66      A16S
ATOM  18582  O4  U   A 891     168.016  86.107 -25.322  1.00 46.66      A16S
ATOM  18583  C5  U   A 891     170.076  86.265 -26.489  1.00 46.66      A16S
ATOM  18584  C2* U   A 891     173.302  82.852 -26.153  1.00 25.72      A16S
ATOM  18585  O2* U   A 891     174.301  82.237 -25.367  1.00 25.72      A16S
ATOM  18586  C3* U   A 891     173.584  82.926 -27.656  1.00 25.72      A16S
ATOM  18587  O3* U   A 891     174.289  81.808 -28.165  1.00 25.72      A16S
ATOM  18588  P   A   A 892     173.485  80.654 -28.931  1.00 40.67      A16S
ATOM  18589  O1P A   A 892     174.483  79.676 -29.418  1.00 27.84      A16S
ATOM  18590  O2P A   A 892     172.524  81.269 -29.889  1.00 27.84      A16S
ATOM  18591  O5* A   A 892     172.679  79.944 -27.766  1.00 40.67      A16S
ATOM  18592  C5* A   A 892     173.387  79.304 -26.705  1.00 40.67      A16S
ATOM  18593  C4* A   A 892     172.430  78.566 -25.819  1.00 40.67      A16S
ATOM  18594  O4* A   A 892     171.719  79.507 -24.990  1.00 40.67      A16S
ATOM  18595  C1* A   A 892     170.377  79.090 -24.849  1.00 40.67      A16S
ATOM  18596  N9  A   A 892     169.550  80.127 -25.444  1.00 27.84      A16S
ATOM  18597  C4  A   A 892     168.233  80.378 -25.172  1.00 27.84      A16S
ATOM  18598  N3  A   A 892     167.434  79.711 -24.321  1.00 27.84      A16S
ATOM  18599  C2  A   A 892     166.221  80.255 -24.304  1.00 27.84      A16S
ATOM  18600  N1  A   A 892     165.754  81.308 -24.987  1.00 27.84      A16S
ATOM  18601  C6  A   A 892     166.588  81.946 -25.836  1.00 27.84      A16S
ATOM  18602  N6  A   A 892     166.131  82.985 -26.527  1.00 27.84      A16S
ATOM  18603  C5  A   A 892     167.896  81.471 -25.943  1.00 27.84      A16S
ATOM  18604  N7  A   A 892     168.978  81.890 -26.698  1.00 27.84      A16S
ATOM  18605  C8  A   A 892     169.928  81.058 -26.371  1.00 27.84      A16S
ATOM  18606  C2* A   A 892     170.226  77.744 -25.552  1.00 40.67      A16S
ATOM  18607  O2* A   A 892     170.431  76.696 -24.636  1.00 40.67      A16S
ATOM  18608  C3* A   A 892     171.351  77.811 -26.563  1.00 40.67      A16S
ATOM  18609  O3* A   A 892     171.788  76.538 -26.955  1.00 40.67      A16S
ATOM  18610  P   C   A 893     171.203  75.901 -28.294  1.00 42.31      A16S
ATOM  18611  O1P C   A 893     171.853  74.581 -28.446  1.00 51.50      A16S
ATOM  18612  O2P C   A 893     171.324  76.914 -29.372  1.00 51.50      A16S
ATOM  18613  O5* C   A 893     169.664  75.677 -27.964  1.00 42.31      A16S
ATOM  18614  C5* C   A 893     169.273  74.842 -26.869  1.00 42.31      A16S
ATOM  18615  C4* C   A 893     167.785  74.924 -26.656  1.00 42.31      A16S
ATOM  18616  O4* C   A 893     167.425  76.209 -26.095  1.00 42.31      A16S
ATOM  18617  C1* C   A 893     166.139  76.582 -26.555  1.00 42.31      A16S
ATOM  18618  N1  C   A 893     166.225  77.884 -27.238  1.00 51.50      A16S
ATOM  18619  C6  C   A 893     167.358  78.267 -27.893  1.00 51.50      A16S
ATOM  18620  C2  C   A 893     165.116  78.725 -27.208  1.00 51.50      A16S
ATOM  18621  O2  C   A 893     164.090  78.347 -26.609  1.00 51.50      A16S
ATOM  18622  N3  C   A 893     165.176  79.924 -27.828  1.00 51.50      A16S
ATOM  18623  C4  C   A 893     166.284  80.287 -28.463  1.00 51.50      A16S
ATOM  18624  N4  C   A 893     166.299  81.478 -29.058  1.00 51.50      A16S
ATOM  18625  C5  C   A 893     167.428  79.448 -28.514  1.00 51.50      A16S
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ATOM  18626  C2* C   A 893     165.633  75.475 -27.476  1.00 42.31      A16S
ATOM  18627  O2* C   A 893     164.826  74.582 -26.740  1.00 42.31      A16S
ATOM  18628  C3* C   A 893     166.930  74.816 -27.904  1.00 42.31      A16S
ATOM  18629  O3* C   A 893     166.719  73.474 -28.291  1.00 42.31      A16S
ATOM  18630  P   G   A 894     166.527  73.127 -29.843  1.00 47.79      A16S
ATOM  18631  O1P G   A 894     166.529  71.644 -29.916  1.00 32.48      A16S
ATOM  18632  O2P G   A 894     167.487  73.913 -30.675  1.00 32.48      A16S
ATOM  18633  O5* G   A 894     165.057  73.643 -30.144  1.00 47.79      A16S
ATOM  18634  C5* G   A 894     163.929  72.998 -29.552  1.00 47.79      A16S
ATOM  18635  C4* G   A 894     162.672  73.739 -29.908  1.00 47.79      A16S
ATOM  18636  O4* G   A 894     162.663  75.024 -29.245  1.00 47.79      A16S
ATOM  18637  C1* G   A 894     162.003  75.977 -30.054  1.00 47.79      A16S
ATOM  18638  N9  G   A 894     162.952  77.027 -30.384  1.00 32.48      A16S
ATOM  18639  C4  G   A 894     162.651  78.286 -30.823  1.00 32.48      A16S
ATOM  18640  N3  G   A 894     161.417  78.784 -30.994  1.00 32.48      A16S
ATOM  18641  C2  G   A 894     161.449  80.019 -31.444  1.00 32.48      A16S
ATOM  18642  N2  G   A 894     160.305  80.680 -31.656  1.00 32.48      A16S
ATOM  18643  N1  G   A 894     162.601  80.707 -31.714  1.00 32.48      A16S
ATOM  18644  C6  G   A 894     163.880  80.215 -31.536  1.00 32.48      A16S
ATOM  18645  O6  G   A 894     164.859  80.927 -31.798  1.00 32.48      A16S
ATOM  18646  C5  G   A 894     163.859  78.894 -31.048  1.00 32.48      A16S
ATOM  18647  N7  G   A 894     164.901  78.041 -30.734  1.00 32.48      A16S
ATOM  18648  C8  G   A 894     164.314  76.948 -30.341  1.00 32.48      A16S
ATOM  18649  C2* G   A 894     161.540  75.258 -31.313  1.00 47.79      A16S
ATOM  18650  O2* G   A 894     160.223  74.799 -31.123  1.00 47.79      A16S
ATOM  18651  C3* G   A 894     162.509  74.097 -31.368  1.00 47.79      A16S
ATOM  18652  O3* G   A 894     161.988  73.045 -32.132  1.00 47.79      A16S
ATOM  18653  P   G   A 895     162.303  73.004 -33.701  1.00 38.79      A16S
ATOM  18654  O1P G   A 895     161.713  71.735 -34.235  1.00 44.29      A16S
ATOM  18655  O2P G   A 895     163.757  73.284 -33.877  1.00 44.29      A16S
ATOM  18656  O5* G   A 895     161.493  74.239 -34.299  1.00 38.79      A16S
ATOM  18657  C5* G   A 895     160.071  74.270 -34.216  1.00 38.79      A16S
ATOM  18658  C4* G   A 895     159.561  75.617 -34.627  1.00 38.79      A16S
ATOM  18659  O4* G   A 895     160.139  76.622 -33.773  1.00 38.79      A16S
ATOM  18660  C1* G   A 895     160.334  77.812 -34.504  1.00 38.79      A16S
ATOM  18661  N9  G   A 895     161.744  78.176 -34.456  1.00 44.29      A16S
ATOM  18662  C4  G   A 895     162.256  79.393 -34.790  1.00 44.29      A16S
ATOM  18663  N3  G   A 895     161.544  80.456 -35.184  1.00 44.29      A16S
ATOM  18664  C2  G   A 895     162.309  81.481 -35.454  1.00 44.29      A16S
ATOM  18665  N2  G   A 895     161.755  82.626 -35.841  1.00 44.29      A16S
ATOM  18666  N1  G   A 895     163.669  81.462 -35.362  1.00 44.29      A16S
ATOM  18667  C6  G   A 895     164.421  80.368 -34.974  1.00 44.29      A16S
ATOM  18668  O6  G   A 895     165.646  80.443 -34.960  1.00 44.29      A16S
ATOM  18669  C5  G   A 895     163.611  79.271 -34.656  1.00 44.29      A16S
ATOM  18670  N7  G   A 895     163.951  78.005 -34.212  1.00 44.29      A16S
ATOM  18671  C8  G   A 895     162.809  77.389 -34.105  1.00 44.29      A16S
ATOM  18672  C2* G   A 895     159.869  77.565 -35.933  1.00 38.79      A16S
ATOM  18673  O2* G   A 895     158.573  78.095 -36.065  1.00 38.79      A16S
ATOM  18674  C3* G   A 895     159.940  76.049 -36.021  1.00 38.79      A16S
ATOM  18675  O3* G   A 895     159.038  75.506 -36.966  1.00 38.79      A16S
ATOM  18676  P   C   A 896     159.596  74.994 -38.380  1.00 39.85      A16S
ATOM  18677  O1P C   A 896     158.549  74.115 -38.980  1.00 34.33      A16S
ATOM  18678  O2P C   A 896     160.944  74.438 -38.109  1.00 34.33      A16S
ATOM  18679  O5* C   A 896     159.751  76.340 -39.226  1.00 39.85      A16S
ATOM  18680  C5* C   A 896     158.603  77.160 -39.469  1.00 39.85      A16S
ATOM  18681  C4* C   A 896     159.003  78.544 -39.905  1.00 39.85      A16S
ATOM  18682  O4* C   A 896     159.619  79.263 -38.812  1.00 39.85      A16S
ATOM  18683  C1* C   A 896     160.571  80.183 -39.328  1.00 39.85      A16S
ATOM  18684  N1  C   A 896     161.900  79.821 -38.831  1.00 34.33      A16S
ATOM  18685  C6  C   A 896     162.136  78.598 -38.278  1.00 34.33      A16S
ATOM  18686  C2  C   A 896     162.929  80.744 -38.959  1.00 34.33      A16S
ATOM  18687  O2  C   A 896     162.674  81.860 -39.442  1.00 34.33      A16S
ATOM  18688  N3  C   A 896     164.170  80.404 -38.555  1.00 34.33      A16S
ATOM  18689  C4  C   A 896     164.390  79.202 -38.030  1.00 34.33      A16S
ATOM  18690  N4  C   A 896     165.621  78.901 -37.651  1.00 34.33      A16S
ATOM  18691  C5  C   A 896     163.354  78.253 -37.870  1.00 34.33      A16S
ATOM  18692  C2* C   A 896     160.567  80.054 -40.846  1.00 39.85      A16S
ATOM  18693  O2* C   A 896     159.787  81.081 -41.426  1.00 39.85      A16S
ATOM  18694  C3* C   A 896     160.019  78.644 -41.021  1.00 39.85      A16S
ATOM  18695  O3* C   A 896     159.478  78.416 -42.303  1.00 39.85      A16S
ATOM  18696  P   C   A 897     160.366  77.646 -43.395  1.00 42.35      A16S
ATOM  18697  O1P C   A 897     159.421  77.298 -44.484  1.00 26.21      A16S
ATOM  18698  O2P C   A 897     161.171  76.567 -42.729  1.00 26.21      A16S
ATOM  18699  O5* C   A 897     161.355  78.771 -43.928  1.00 42.35      A16S
ATOM  18700  C5* C   A 897     160.829  79.961 -44.507  1.00 42.35      A16S
ATOM  18701  C4* C   A 897     161.903  81.009 -44.639  1.00 42.35      A16S
ATOM  18702  O4* C   A 897     162.350  81.455 -43.332  1.00 42.35      A16S
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ATOM  18703  C1* C   A 897     163.691  81.912 -43.422  1.00 42.35      A16S
ATOM  18704  N1  C   A 897     164.543  81.091 -42.547  1.00 26.21      A16S
ATOM  18705  C6  C   A 897     164.104  79.903 -42.036  1.00 26.21      A16S
ATOM  18706  C2  C   A 897     165.833  81.538 -42.272  1.00 26.21      A16S
ATOM  18707  O2  C   A 897     166.188  82.648 -42.706  1.00 26.21      A16S
ATOM  18708  N3  C   A 897     166.656  80.756 -41.541  1.00 26.21      A16S
ATOM  18709  C4  C   A 897     166.223  79.589 -41.077  1.00 26.21      A16S
ATOM  18710  N4  C   A 897     167.068  78.847 -40.394  1.00 26.21      A16S
ATOM  18711  C5  C   A 897     164.906  79.131 -41.303  1.00 26.21      A16S
ATOM  18712  C2* C   A 897     164.128  81.734 -44.873  1.00 42.35      A16S
ATOM  18713  O2* C   A 897     163.890  82.939 -45.573  1.00 42.35      A16S
ATOM  18714  C3* C   A 897     163.195  80.632 -45.335  1.00 42.35      A16S
ATOM  18715  O3* C   A 897     163.087  80.619 -46.733  1.00 42.35      A16S
ATOM  18716  P   G   A 898     163.948  79.557 -47.560  1.00 38.29      A16S
ATOM  18717  O1P G   A 898     163.594  79.741 -48.992  1.00 42.95      A16S
ATOM  18718  O2P G   A 898     163.847  78.203 -46.931  1.00 42.95      A16S
ATOM  18719  O5* G   A 898     165.437  80.052 -47.349  1.00 38.29      A16S
ATOM  18720  C5* G   A 898     165.916  81.190 -48.054  1.00 38.29      A16S
ATOM  18721  C4* G   A 898     167.390  81.342 -47.841  1.00 38.29      A16S
ATOM  18722  O4* G   A 898     167.644  81.602 -46.439  1.00 38.29      A16S
ATOM  18723  C1* G   A 898     168.885  81.043 -46.072  1.00 38.29      A16S
ATOM  18724  N9  G   A 898     168.660  80.031 -45.054  1.00 42.95      A16S
ATOM  18725  C4  G   A 898     169.600  79.527 -44.192  1.00 42.95      A16S
ATOM  18726  N3  G   A 898     170.875  79.949 -44.069  1.00 42.95      A16S
ATOM  18727  C2  G   A 898     171.549  79.218 -43.203  1.00 42.95      A16S
ATOM  18728  N2  G   A 898     172.821  79.493 -42.941  1.00 42.95      A16S
ATOM  18729  N1  G   A 898     171.024  78.161 -42.524  1.00 42.95      A16S
ATOM  18730  C6  G   A 898     169.718  77.711 -42.639  1.00 42.95      A16S
ATOM  18731  O6  G   A 898     169.350  76.724 -41.999  1.00 42.95      A16S
ATOM  18732  C5  G   A 898     168.977  78.493 -43.541  1.00 42.95      A16S
ATOM  18733  N7  G   A 898     167.653  78.396 -43.930  1.00 42.95      A16S
ATOM  18734  C8  G   A 898     167.507  79.340 -44.816  1.00 42.95      A16S
ATOM  18735  C2* G   A 898     169.471  80.386 -47.318  1.00 38.29      A16S
ATOM  18736  O2* G   A 898     170.329  81.317 -47.937  1.00 38.29      A16S
ATOM  18737  C3* G   A 898     168.218  80.111 -48.135  1.00 38.29      A16S
ATOM  18738  O3* G   A 898     168.453  79.927 -49.527  1.00 38.29      A16S
ATOM  18739  P   C   A 899     168.407  78.436 -50.147  1.00 34.92      A16S
ATOM  18740  O1P C   A 899     167.201  77.727 -49.628  1.00 37.29      A16S
ATOM  18741  O2P C   A 899     168.632  78.552 -51.606  1.00 37.29      A16S
ATOM  18742  O5* C   A 899     169.655  77.687 -49.507  1.00 34.92      A16S
ATOM  18743  C5* C   A 899     169.989  76.341 -49.878  1.00 34.92      A16S
ATOM  18744  C4* C   A 899     171.486  76.177 -49.888  1.00 34.92      A16S
ATOM  18745  O4* C   A 899     172.026  76.955 -50.975  1.00 34.92      A16S
ATOM  18746  C1* C   A 899     173.240  77.549 -50.580  1.00 34.92      A16S
ATOM  18747  N1  C   A 899     173.159  78.991 -50.819  1.00 37.29      A16S
ATOM  18748  C6  C   A 899     171.960  79.637 -50.828  1.00 37.29      A16S
ATOM  18749  C2  C   A 899     174.335  79.691 -51.051  1.00 37.29      A16S
ATOM  18750  O2  C   A 899     175.421  79.081 -51.001  1.00 37.29      A16S
ATOM  18751  N3  C   A 899     174.274  81.015 -51.315  1.00 37.29      A16S
ATOM  18752  C4  C   A 899     173.100  81.635 -51.336  1.00 37.29      A16S
ATOM  18753  N4  C   A 899     173.089  82.941 -51.615  1.00 37.29      A16S
ATOM  18754  C5  C   A 899     171.885  80.946 -51.078  1.00 37.29      A16S
ATOM  18755  C2* C   A 899     173.529  77.159 -49.134  1.00 34.92      A16S
ATOM  18756  O2* C   A 899     174.465  76.115 -49.121  1.00 34.92      A16S
ATOM  18757  C3* C   A 899     172.162  76.719 -48.644  1.00 34.92      A16S
ATOM  18758  O3* C   A 899     172.271  75.711 -47.658  1.00 34.92      A16S
ATOM  18759  P   A   A 900     172.193  76.117 -46.118  1.00 35.64      A16S
ATOM  18760  O1P A   A 900     172.196  74.901 -45.276  1.00 16.62      A16S
ATOM  18761  O2P A   A 900     171.046  77.041 -46.037  1.00 16.62      A16S
ATOM  18762  O5* A   A 900     173.560  76.893 -45.876  1.00 35.64      A16S
ATOM  18763  C5* A   A 900     174.791  76.167 -45.740  1.00 35.64      A16S
ATOM  18764  C4* A   A 900     175.956  77.110 -45.801  1.00 35.64      A16S
ATOM  18765  O4* A   A 900     175.797  77.904 -46.996  1.00 35.64      A16S
ATOM  18766  C1* A   A 900     176.134  79.252 -46.734  1.00 35.64      A16S
ATOM  18767  N9  A   A 900     174.974  80.088 -47.083  1.00 16.62      A16S
ATOM  18768  C4  A   A 900     174.990  81.397 -47.511  1.00 16.62      A16S
ATOM  18769  N3  A   A 900     176.051  82.200 -47.637  1.00 16.62      A16S
ATOM  18770  C2  A   A 900     175.685  83.391 -48.117  1.00 16.62      A16S
ATOM  18771  N1  A   A 900     174.480  83.833 -48.465  1.00 16.62      A16S
ATOM  18772  C6  A   A 900     173.436  82.999 -48.336  1.00 16.62      A16S
ATOM  18773  N6  A   A 900     172.234  83.433 -48.702  1.00 16.62      A16S
ATOM  18774  C5  A   A 900     173.682  81.710 -47.826  1.00 16.62      A16S
ATOM  18775  N7  A   A 900     172.844  80.634 -47.565  1.00 16.62      A16S
ATOM  18776  C8  A   A 900     173.650  79.705 -47.115  1.00 16.62      A16S
ATOM  18777  C2* A   A 900     176.656  79.322 -45.300  1.00 35.64      A16S
ATOM  18778  O2* A   A 900     178.047  79.136 -45.347  1.00 35.64      A16S
ATOM  18779  C3* A   A 900     176.002  78.108 -44.663  1.00 35.64      A16S
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ATOM  18780  O3*  A   A 900     176.791  77.591 -43.599  1.00 35.64       A16S
ATOM  18781  P    A   A 901     176.520  78.091 -42.088  1.00 28.23       A16S
ATOM  18782  O1P  A   A 901     177.428  77.326 -41.201  1.00 25.18       A16S
ATOM  18783  O2P  A   A 901     175.049  78.054 -41.837  1.00 25.18       A16S
ATOM  18784  O5*  A   A 901     177.028  79.602 -42.069  1.00 28.23       A16S
ATOM  18785  C5*  A   A 901     178.431  79.888 -42.054  1.00 28.23       A16S
ATOM  18786  C4*  A   A 901     178.683  81.333 -42.394  1.00 28.23       A16S
ATOM  18787  O4*  A   A 901     178.162  81.614 -43.709  1.00 28.23       A16S
ATOM  18788  C1*  A   A 901     177.632  82.924 -43.747  1.00 28.23       A16S
ATOM  18789  N9   A   A 901     176.206  82.821 -44.053  1.00 25.18       A16S
ATOM  18790  C4   A   A 901     175.421  83.769 -44.649  1.00 25.18       A16S
ATOM  18791  N3   A   A 901     175.808  84.954 -45.139  1.00 25.18       A16S
ATOM  18792  C2   A   A 901     174.757  85.622 -45.601  1.00 25.18       A16S
ATOM  18793  N1   A   A 901     173.468  85.269 -45.608  1.00 25.18       A16S
ATOM  18794  C6   A   A 901     173.127  84.076 -45.088  1.00 25.18       A16S
ATOM  18795  N6   A   A 901     171.843  83.738 -45.034  1.00 25.18       A16S
ATOM  18796  C5   A   A 901     174.139  83.269 -44.610  1.00 25.18       A16S
ATOM  18797  N7   A   A 901     174.120  82.006 -44.061  1.00 25.18       A16S
ATOM  18798  C8   A   A 901     175.368  81.782 -43.755  1.00 25.18       A16S
ATOM  18799  C2*  A   A 901     177.876  83.559 -42.377  1.00 28.23       A16S
ATOM  18800  O2*  A   A 901     179.069  84.300 -42.382  1.00 28.23       A16S
ATOM  18801  C3*  A   A 901     178.010  82.338 -41.487  1.00 28.23       A16S
ATOM  18802  O3*  A   A 901     178.815  82.609 -40.356  1.00 28.23       A16S
ATOM  18803  P    G   A 902     178.272  82.227 -38.900  1.00 34.47       A16S
ATOM  18804  O1P  G   A 902     179.139  82.951 -37.956  1.00 24.28       A16S
ATOM  18805  O2P  G   A 902     178.145  80.749 -38.808  1.00 24.28       A16S
ATOM  18806  O5*  G   A 902     176.809  82.858 -38.839  1.00 34.47       A16S
ATOM  18807  C5*  G   A 902     176.641  84.280 -38.833  1.00 34.47       A16S
ATOM  18808  C4*  G   A 902     175.509  84.699 -39.746  1.00 34.47       A16S
ATOM  18809  O4*  G   A 902     175.181  83.643 -40.680  1.00 34.47       A16S
ATOM  18810  C1*  G   A 902     173.830  83.759 -41.066  1.00 34.47       A16S
ATOM  18811  N9   G   A 902     173.129  82.541 -40.705  1.00 24.28       A16S
ATOM  18812  C4   G   A 902     171.822  82.280 -40.990  1.00 24.28       A16S
ATOM  18813  N3   G   A 902     171.002  83.079 -41.695  1.00 24.28       A16S
ATOM  18814  C2   G   A 902     169.787  82.598 -41.753  1.00 24.28       A16S
ATOM  18815  N2   G   A 902     168.843  83.276 -42.405  1.00 24.28       A16S
ATOM  18816  N1   G   A 902     169.409  81.421 -41.171  1.00 24.28       A16S
ATOM  18817  C6   G   A 902     170.245  80.592 -40.439  1.00 24.28       A16S
ATOM  18818  O6   G   A 902     169.801  79.571 -39.930  1.00 24.28       A16S
ATOM  18819  C5   G   A 902     171.544  81.092 -40.377  1.00 24.28       A16S
ATOM  18820  N7   G   A 902     172.670  80.583 -39.758  1.00 24.28       A16S
ATOM  18821  C8   G   A 902     173.592  81.475 -39.988  1.00 24.28       A16S
ATOM  18822  C2*  G   A 902     173.216  84.913 -40.280  1.00 34.47       A16S
ATOM  18823  O2*  G   A 902     173.151  86.062 -41.101  1.00 34.47       A16S
ATOM  18824  C3*  G   A 902     174.173  85.017 -39.102  1.00 34.47       A16S
ATOM  18825  O3*  G   A 902     174.159  86.303 -38.501  1.00 34.47       A16S
ATOM  18826  P    G   A 903     173.146  86.597 -37.292  1.00 35.89       A16S
ATOM  18827  O1P  G   A 903     173.614  87.842 -36.575  1.00 31.26       A16S
ATOM  18828  O2P  G   A 903     172.948  85.327 -36.530  1.00 31.26       A16S
ATOM  18829  O5*  G   A 903     171.798  86.956 -38.044  1.00 35.89       A16S
ATOM  18830  C5*  G   A 903     171.771  88.065 -38.931  1.00 35.89       A16S
ATOM  18831  C4*  G   A 903     170.421  88.195 -39.544  1.00 35.89       A16S
ATOM  18832  O4*  G   A 903     170.137  87.013 -40.326  1.00 35.89       A16S
ATOM  18833  C1*  G   A 903     168.770  86.687 -40.206  1.00 35.89       A16S
ATOM  18834  N9   G   A 903     168.696  85.365 -39.599  1.00 31.26       A16S
ATOM  18835  C4   G   A 903     167.590  84.570 -39.489  1.00 31.26       A16S
ATOM  18836  N3   G   A 903     166.356  84.864 -39.943  1.00 31.26       A16S
ATOM  18837  C2   G   A 903     165.494  83.899 -39.668  1.00 31.26       A16S
ATOM  18838  N2   G   A 903     164.213  84.017 -40.051  1.00 31.26       A16S
ATOM  18839  N1   G   A 903     165.823  82.747 -39.000  1.00 31.26       A16S
ATOM  18840  C6   G   A 903     167.089  82.435 -38.530  1.00 31.26       A16S
ATOM  18841  O6   G   A 903     167.280  81.376 -37.940  1.00 31.26       A16S
ATOM  18842  C5   G   A 903     168.013  83.447 -38.821  1.00 31.26       A16S
ATOM  18843  N7   G   A 903     169.360  83.527 -38.533  1.00 31.26       A16S
ATOM  18844  C8   G   A 903     169.724  84.680 -39.013  1.00 31.26       A16S
ATOM  18845  C2*  G   A 903     168.115  87.783 -39.359  1.00 35.89       A16S
ATOM  18846  O2*  G   A 903     167.639  88.822 -40.194  1.00 35.89       A16S
ATOM  18847  C3*  G   A 903     169.292  88.285 -38.548  1.00 35.89       A16S
ATOM  18848  O3*  G   A 903     169.123  89.626 -38.153  1.00 35.89       A16S
ATOM  18849  P    C   A 904     168.426  89.957 -36.748  1.00 42.52       A16S
ATOM  18850  O1P  C   A 904     168.345  91.440 -36.656  1.00 26.24       A16S
ATOM  18851  O2P  C   A 904     169.061  89.181 -35.644  1.00 26.24       A16S
ATOM  18852  O5*  C   A 904     166.949  89.414 -36.944  1.00 42.52       A16S
ATOM  18853  C5*  C   A 904     166.057  90.064 -37.851  1.00 42.52       A16S
ATOM  18854  C4*  C   A 904     164.714  89.402 -37.796  1.00 42.52       A16S
ATOM  18855  O4*  C   A 904     164.812  88.069 -38.349  1.00 42.52       A16S
ATOM  18856  C1*  C   A 904     163.973  87.200 -37.632  1.00 42.52       A16S
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ATOM  18857  N1  C   A 904     164.815  86.188 -36.989  1.00 26.24      A16S
ATOM  18858  C6  C   A 904     166.154  86.379 -36.842  1.00 26.24      A16S
ATOM  18859  C2  C   A 904     164.218  85.026 -36.513  1.00 26.24      A16S
ATOM  18860  O2  C   A 904     163.005  84.867 -36.685  1.00 26.24      A16S
ATOM  18861  N3  C   A 904     164.970  84.104 -35.880  1.00 26.24      A16S
ATOM  18862  C4  C   A 904     166.267  84.309 -35.723  1.00 26.24      A16S
ATOM  18863  N4  C   A 904     166.961  83.393 -35.071  1.00 26.24      A16S
ATOM  18864  C5  C   A 904     166.909  85.472 -36.220  1.00 26.24      A16S
ATOM  18865  C2* C   A 904     163.212  88.040 -36.608  1.00 42.52      A16S
ATOM  18866  O2* C   A 904     162.017  88.499 -37.198  1.00 42.52      A16S
ATOM  18867  C3* C   A 904     164.162  89.199 -36.400  1.00 42.52      A16S
ATOM  18868  O3* C   A 904     163.484  90.356 -35.952  1.00 42.52      A16S
ATOM  18869  P   U   A 905     163.544  90.763 -34.397  1.00 21.68      A16S
ATOM  18870  O1P U   A 905     162.700  91.989 -34.272  1.00 39.83      A16S
ATOM  18871  O2P U   A 905     164.955  90.795 -33.915  1.00 39.83      A16S
ATOM  18872  O5* U   A 905     162.800  89.558 -33.665  1.00 21.68      A16S
ATOM  18873  C5* U   A 905     161.407  89.352 -33.864  1.00 21.68      A16S
ATOM  18874  C4* U   A 905     160.984  88.029 -33.310  1.00 21.68      A16S
ATOM  18875  O4* U   A 905     161.724  86.968 -33.950  1.00 21.68      A16S
ATOM  18876  C1* U   A 905     161.766  85.843 -33.093  1.00 21.68      A16S
ATOM  18877  N1  U   A 905     163.158  85.417 -32.902  1.00 39.83      A16S
ATOM  18878  C6  U   A 905     164.201  86.304 -32.946  1.00 39.83      A16S
ATOM  18879  C2  U   A 905     163.377  84.086 -32.657  1.00 39.83      A16S
ATOM  18880  O2  U   A 905     162.484  83.266 -32.633  1.00 39.83      A16S
ATOM  18881  N3  U   A 905     164.686  83.744 -32.442  1.00 39.83      A16S
ATOM  18882  C4  U   A 905     165.779  84.582 -32.461  1.00 39.83      A16S
ATOM  18883  O4  U   A 905     166.907  84.118 -32.272  1.00 39.83      A16S
ATOM  18884  C5  U   A 905     165.471  85.943 -32.739  1.00 39.83      A16S
ATOM  18885  C2* U   A 905     161.120  86.258 -31.775  1.00 21.68      A16S
ATOM  18886  O2* U   A 905     159.774  85.830 -31.783  1.00 21.68      A16S
ATOM  18887  C3* U   A 905     161.228  87.771 -31.842  1.00 21.68      A16S
ATOM  18888  O3* U   A 905     160.245  88.367 -31.038  1.00 21.68      A16S
ATOM  18889  P   G   A 906     160.688  89.258 -29.780  1.00 32.38      A16S
ATOM  18890  O1P G   A 906     159.448  89.509 -28.985  1.00 41.76      A16S
ATOM  18891  O2P G   A 906     161.498  90.420 -30.285  1.00 41.76      A16S
ATOM  18892  O5* G   A 906     161.587  88.264 -28.920  1.00 32.38      A16S
ATOM  18893  C5* G   A 906     160.979  87.147 -28.264  1.00 32.38      A16S
ATOM  18894  C4* G   A 906     162.019  86.272 -27.605  1.00 32.38      A16S
ATOM  18895  O4* G   A 906     162.847  85.640 -28.605  1.00 32.38      A16S
ATOM  18896  C1* G   A 906     164.145  85.449 -28.089  1.00 32.38      A16S
ATOM  18897  N9  G   A 906     165.053  86.283 -28.851  1.00 41.76      A16S
ATOM  18898  C4  G   A 906     166.376  86.041 -29.073  1.00 41.76      A16S
ATOM  18899  N3  G   A 906     167.065  84.963 -28.653  1.00 41.76      A16S
ATOM  18900  C2  G   A 906     168.328  85.016 -29.022  1.00 41.76      A16S
ATOM  18901  N2  G   A 906     169.164  84.026 -28.701  1.00 41.76      A16S
ATOM  18902  N1  G   A 906     168.868  86.043 -29.735  1.00 41.76      A16S
ATOM  18903  C6  G   A 906     168.175  87.160 -30.171  1.00 41.76      A16S
ATOM  18904  O6  G   A 906     168.756  88.031 -30.809  1.00 41.76      A16S
ATOM  18905  C5  G   A 906     166.826  87.117 -29.791  1.00 41.76      A16S
ATOM  18906  N7  G   A 906     165.800  88.018 -30.029  1.00 41.76      A16S
ATOM  18907  C8  G   A 906     164.765  87.477 -29.458  1.00 41.76      A16S
ATOM  18908  C2* G   A 906     164.137  85.912 -26.641  1.00 32.38      A16S
ATOM  18909  O2* G   A 906     163.823  84.802 -25.836  1.00 32.38      A16S
ATOM  18910  C3* G   A 906     163.012  86.928 -26.664  1.00 32.38      A16S
ATOM  18911  O3* G   A 906     162.475  87.120 -25.375  1.00 32.38      A16S
ATOM  18912  P   A   A 907     163.068  88.280 -24.442  1.00 35.56      A16S
ATOM  18913  O1P A   A 907     162.055  88.464 -23.375  1.00 29.40      A16S
ATOM  18914  O2P A   A 907     163.470  89.440 -25.303  1.00 29.40      A16S
ATOM  18915  O5* A   A 907     164.377  87.631 -23.810  1.00 35.56      A16S
ATOM  18916  C5* A   A 907     164.447  87.283 -22.418  1.00 35.56      A16S
ATOM  18917  C4* A   A 907     163.884  85.901 -22.197  1.00 35.56      A16S
ATOM  18918  O4* A   A 907     164.421  84.976 -23.170  1.00 35.56      A16S
ATOM  18919  C1* A   A 907     164.583  83.698 -22.580  1.00 35.56      A16S
ATOM  18920  N9  A   A 907     165.999  83.334 -22.628  1.00 29.40      A16S
ATOM  18921  C4  A   A 907     166.555  82.245 -22.007  1.00 29.40      A16S
ATOM  18922  N3  A   A 907     165.922  81.336 -21.252  1.00 29.40      A16S
ATOM  18923  C2  A   A 907     166.776  80.422 -20.810  1.00 29.40      A16S
ATOM  18924  N1  A   A 907     168.090  80.311 -21.029  1.00 29.40      A16S
ATOM  18925  C6  A   A 907     168.693  81.229 -21.805  1.00 29.40      A16S
ATOM  18926  N6  A   A 907     169.995  81.091 -22.041  1.00 29.40      A16S
ATOM  18927  C5  A   A 907     167.896  82.271 -22.323  1.00 29.40      A16S
ATOM  18928  N7  A   A 907     168.187  83.366 -23.125  1.00 29.40      A16S
ATOM  18929  C8  A   A 907     167.033  83.963 -23.275  1.00 29.40      A16S
ATOM  18930  C2* A   A 907     164.075  83.787 -21.146  1.00 35.56      A16S
ATOM  18931  O2* A   A 907     162.729  83.363 -21.093  1.00 35.56      A16S
ATOM  18932  C3* A   A 907     164.234  85.269 -20.868  1.00 35.56      A16S
ATOM  18933  O3* A   A 907     163.381  85.706 -19.848  1.00 35.56      A16S
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ATOM  18934  P    A   A 908     164.012  86.226 -18.471  1.00 35.41      A16S
ATOM  18935  O1P  A   A 908     162.850  86.771 -17.718  1.00 43.41      A16S
ATOM  18936  O2P  A   A 908     165.183  87.103 -18.740  1.00 43.41      A16S
ATOM  18937  O5*  A   A 908     164.524  84.893 -17.766  1.00 35.41      A16S
ATOM  18938  C5*  A   A 908     163.592  83.913 -17.342  1.00 35.41      A16S
ATOM  18939  C4*  A   A 908     164.305  82.646 -17.011  1.00 35.41      A16S
ATOM  18940  O4*  A   A 908     165.082  82.243 -18.156  1.00 35.41      A16S
ATOM  18941  C1*  A   A 908     166.222  81.522 -17.730  1.00 35.41      A16S
ATOM  18942  N9   A   A 908     167.414  82.140 -18.302  1.00 43.41      A16S
ATOM  18943  C4   A   A 908     168.694  81.676 -18.168  1.00 43.41      A16S
ATOM  18944  N3   A   A 908     169.094  80.593 -17.491  1.00 43.41      A16S
ATOM  18945  C2   A   A 908     170.410  80.446 -17.582  1.00 43.41      A16S
ATOM  18946  N1   A   A 908     171.303  81.204 -18.221  1.00 43.41      A16S
ATOM  18947  C6   A   A 908     170.863  82.287 -18.891  1.00 43.41      A16S
ATOM  18948  N6   A   A 908     171.755  83.049 -19.530  1.00 43.41      A16S
ATOM  18949  C5   A   A 908     169.487  82.549 -18.874  1.00 43.41      A16S
ATOM  18950  N7   A   A 908     168.721  83.551 -19.445  1.00 43.41      A16S
ATOM  18951  C8   A   A 908     167.503  83.265 -19.074  1.00 43.41      A16S
ATOM  18952  C2*  A   A 908     166.215  81.512 -16.208  1.00 35.41      A16S
ATOM  18953  O2*  A   A 908     165.638  80.290 -15.805  1.00 35.41      A16S
ATOM  18954  C3*  A   A 908     165.325  82.707 -15.897  1.00 35.41      A16S
ATOM  18955  O3*  A   A 908     164.698  82.574 -14.639  1.00 35.41      A16S
ATOM  18956  P    A   A 909     165.340  83.289 -13.351  1.00 45.82      A16S
ATOM  18957  O1P  A   A 909     164.252  83.245 -12.333  1.00 33.06      A16S
ATOM  18958  O2P  A   A 909     165.964  84.605 -13.731  1.00 33.06      A16S
ATOM  18959  O5*  A   A 909     166.489  82.290 -12.884  1.00 45.82      A16S
ATOM  18960  C5*  A   A 909     166.162  80.988 -12.380  1.00 45.82      A16S
ATOM  18961  C4*  A   A 909     167.398  80.138 -12.316  1.00 45.82      A16S
ATOM  18962  O4*  A   A 909     167.969  80.036 -13.642  1.00 45.82      A16S
ATOM  18963  C1*  A   A 909     169.375  80.040 -13.553  1.00 45.82      A16S
ATOM  18964  N9   A   A 909     169.855  81.225 -14.248  1.00 33.06      A16S
ATOM  18965  C4   A   A 909     171.145  81.430 -14.652  1.00 33.06      A16S
ATOM  18966  N3   A   A 909     172.180  80.591 -14.498  1.00 33.06      A16S
ATOM  18967  C2   A   A 909     173.273  81.102 -15.035  1.00 33.06      A16S
ATOM  18968  N1   A   A 909     173.441  82.275 -15.654  1.00 33.06      A16S
ATOM  18969  C6   A   A 909     172.383  83.100 -15.780  1.00 33.06      A16S
ATOM  18970  N6   A   A 909     172.566  84.279 -16.379  1.00 33.06      A16S
ATOM  18971  C5   A   A 909     171.156  82.664 -15.263  1.00 33.06      A16S
ATOM  18972  N7   A   A 909     169.888  83.232 -15.245  1.00 33.06      A16S
ATOM  18973  C8   A   A 909     169.156  82.343 -14.631  1.00 33.06      A16S
ATOM  18974  C2*  A   A 909     169.756  80.064 -12.076  1.00 45.82      A16S
ATOM  18975  O2*  A   A 909     169.966  78.739 -11.638  1.00 45.82      A16S
ATOM  18976  C3*  A   A 909     168.517  80.690 -11.455  1.00 45.82      A16S
ATOM  18977  O3*  A   A 909     168.341  80.273 -10.119  1.00 45.82      A16S
ATOM  18978  P    C   A 910     168.463  81.338  -8.932  1.00 34.23      A16S
ATOM  18979  O1P  C   A 910     168.303  80.514  -7.706  1.00 40.15      A16S
ATOM  18980  O2P  C   A 910     167.542  82.470  -9.189  1.00 40.15      A16S
ATOM  18981  O5*  C   A 910     169.955  81.871  -9.027  1.00 34.23      A16S
ATOM  18982  C5*  C   A 910     171.039  80.969  -8.834  1.00 34.23      A16S
ATOM  18983  C4*  C   A 910     172.285  81.493  -9.488  1.00 34.23      A16S
ATOM  18984  O4*  C   A 910     172.061  81.684 -10.907  1.00 34.23      A16S
ATOM  18985  C1*  C   A 910     172.866  82.758 -11.368  1.00 34.23      A16S
ATOM  18986  N1   C   A 910     172.001  83.802 -11.923  1.00 40.15      A16S
ATOM  18987  C6   C   A 910     170.642  83.704 -11.858  1.00 40.15      A16S
ATOM  18988  C2   C   A 910     172.601  84.913 -12.510  1.00 40.15      A16S
ATOM  18989  O2   C   A 910     173.839  84.972 -12.559  1.00 40.15      A16S
ATOM  18990  N3   C   A 910     171.829  85.894 -13.005  1.00 40.15      A16S
ATOM  18991  C4   C   A 910     170.506  85.800 -12.927  1.00 40.15      A16S
ATOM  18992  N4   C   A 910     169.784  86.804 -13.417  1.00 40.15      A16S
ATOM  18993  C5   C   A 910     169.863  84.672 -12.340  1.00 40.15      A16S
ATOM  18994  C2*  C   A 910     173.651  83.299 -10.175  1.00 34.23      A16S
ATOM  18995  O2*  C   A 910     174.946  82.728 -10.183  1.00 34.23      A16S
ATOM  18996  C3*  C   A 910     172.779  82.845  -9.016  1.00 34.23      A16S
ATOM  18997  O3*  C   A 910     173.484  82.754  -7.799  1.00 34.23      A16S
ATOM  18998  P    U   A 911     173.184  83.827  -6.653  1.00 39.10      A16S
ATOM  18999  O1P  U   A 911     173.870  83.350  -5.416  1.00 49.60      A16S
ATOM  19000  O2P  U   A 911     171.717  84.046  -6.639  1.00 49.60      A16S
ATOM  19001  O5*  U   A 911     173.858  85.165  -7.201  1.00 39.10      A16S
ATOM  19002  C5*  U   A 911     175.260  85.197  -7.485  1.00 39.10      A16S
ATOM  19003  C4*  U   A 911     175.628  86.451  -8.229  1.00 39.10      A16S
ATOM  19004  O4*  U   A 911     174.980  86.469  -9.520  1.00 39.10      A16S
ATOM  19005  C1*  U   A 911     174.723  87.807  -9.901  1.00 39.10      A16S
ATOM  19006  N1   U   A 911     173.287  87.969 -10.153  1.00 49.60      A16S
ATOM  19007  C6   U   A 911     172.354  87.141  -9.590  1.00 49.60      A16S
ATOM  19008  C2   U   A 911     172.910  89.005 -10.976  1.00 49.60      A16S
ATOM  19009  O2   U   A 911     173.712  89.740 -11.509  1.00 49.60      A16S
ATOM  19010  N3   U   A 911     171.560  89.148 -11.155  1.00 49.60      A16S
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ATOM  19011  C4  U   A 911     170.566  88.371 -10.609  1.00 49.60      A16S
ATOM  19012  O4  U   A 911     169.383  88.679 -10.792  1.00 49.60      A16S
ATOM  19013  C5  U   A 911     171.041  87.299  -9.785  1.00 49.60      A16S
ATOM  19014  C2* U   A 911     175.210  88.716  -8.777  1.00 39.10      A16S
ATOM  19015  O2* U   A 911     176.484  89.203  -9.126  1.00 39.10      A16S
ATOM  19016  C3* U   A 911     175.213  87.759  -7.592  1.00 39.10      A16S
ATOM  19017  O3* U   A 911     176.106  88.145  -6.567  1.00 39.10      A16S
ATOM  19018  P   C   A 912     175.584  89.090  -5.383  1.00 51.01      A16S
ATOM  19019  O1P C   A 912     176.567  88.972  -4.278  1.00 44.87      A16S
ATOM  19020  O2P C   A 912     174.146  88.791  -5.127  1.00 44.87      A16S
ATOM  19021  O5* C   A 912     175.708  90.547  -6.005  1.00 51.01      A16S
ATOM  19022  C5* C   A 912     176.973  91.006  -6.473  1.00 51.01      A16S
ATOM  19023  C4* C   A 912     176.813  92.241  -7.317  1.00 51.01      A16S
ATOM  19024  O4* C   A 912     175.998  91.950  -8.472  1.00 51.01      A16S
ATOM  19025  C1* C   A 912     175.277  93.110  -8.841  1.00 51.01      A16S
ATOM  19026  N1  C   A 912     173.843  92.798  -8.863  1.00 44.87      A16S
ATOM  19027  C6  C   A 912     173.355  91.668  -8.270  1.00 44.87      A16S
ATOM  19028  C2  C   A 912     172.989  93.666  -9.536  1.00 44.87      A16S
ATOM  19029  O2  C   A 912     173.456  94.721 -10.005  1.00 44.87      A16S
ATOM  19030  N3  C   A 912     171.680  93.342  -9.655  1.00 44.87      A16S
ATOM  19031  C4  C   A 912     171.223  92.213  -9.110  1.00 44.87      A16S
ATOM  19032  N4  C   A 912     169.935  91.904  -9.283  1.00 44.87      A16S
ATOM  19033  C5  C   A 912     172.066  91.340  -8.369  1.00 44.87      A16S
ATOM  19034  C2* C   A 912     175.634  94.222  -7.868  1.00 51.01      A16S
ATOM  19035  O2* C   A 912     176.645  95.002  -8.472  1.00 51.01      A16S
ATOM  19036  C3* C   A 912     176.125  93.424  -6.671  1.00 51.01      A16S
ATOM  19037  O3* C   A 912     177.026  94.166  -5.885  1.00 51.01      A16S
ATOM  19038  P   A   A 913     176.522  94.771  -4.494  1.00 61.02      A16S
ATOM  19039  O1P A   A 913     177.727  95.059  -3.679  1.00 21.50      A16S
ATOM  19040  O2P A   A 913     175.480  93.835  -3.971  1.00 21.50      A16S
ATOM  19041  O5* A   A 913     175.835  96.152  -4.907  1.00 61.02      A16S
ATOM  19042  C5* A   A 913     176.621  97.264  -5.409  1.00 61.02      A16S
ATOM  19043  C4* A   A 913     175.718  98.441  -5.689  1.00 61.02      A16S
ATOM  19044  O4* A   A 913     174.723  97.980  -6.614  1.00 61.02      A16S
ATOM  19045  C1* A   A 913     173.477  98.524  -6.273  1.00 61.02      A16S
ATOM  19046  N9  A   A 913     172.506  97.436  -6.303  1.00 21.50      A16S
ATOM  19047  C4  A   A 913     171.389  97.420  -7.098  1.00 21.50      A16S
ATOM  19048  N3  A   A 913     170.963  98.396  -7.913  1.00 21.50      A16S
ATOM  19049  C2  A   A 913     169.880  98.007  -8.569  1.00 21.50      A16S
ATOM  19050  N1  A   A 913     169.228  96.847  -8.512  1.00 21.50      A16S
ATOM  19051  C6  A   A 913     169.681  95.896  -7.680  1.00 21.50      A16S
ATOM  19052  N6  A   A 913     169.034  94.745  -7.631  1.00 21.50      A16S
ATOM  19053  C5  A   A 913     170.814  96.179  -6.922  1.00 21.50      A16S
ATOM  19054  N7  A   A 913     171.528  95.433  -5.996  1.00 21.50      A16S
ATOM  19055  C8  A   A 913     172.515  96.229  -5.648  1.00 21.50      A16S
ATOM  19056  C2* A   A 913     173.624  99.398  -5.019  1.00 61.02      A16S
ATOM  19057  O2* A   A 913     173.709 100.762  -5.369  1.00 61.02      A16S
ATOM  19058  C3* A   A 913     174.951  98.926  -4.467  1.00 61.02      A16S
ATOM  19059  O3* A   A 913     175.654  99.950  -3.724  1.00 61.02      A16S
ATOM  19060  O5* A   A 914     175.775 101.658  -5.462  1.00 19.41      A16S
ATOM  19061  C5* A   A 914     175.717 102.180  -6.834  1.00 19.41      A16S
ATOM  19062  C4* A   A 914     175.692 101.157  -7.972  1.00 19.41      A16S
ATOM  19063  O4* A   A 914     174.425 100.448  -7.960  1.00 19.41      A16S
ATOM  19064  C1* A   A 914     174.056 100.076  -9.279  1.00 19.41      A16S
ATOM  19065  N9  A   A 914     172.772 100.699  -9.608  1.00 29.77      A16S
ATOM  19066  C4  A   A 914     172.029 100.471 -10.738  1.00 29.77      A16S
ATOM  19067  N3  A   A 914     172.307  99.622 -11.733  1.00 29.77      A16S
ATOM  19068  C2  A   A 914     171.364  99.670 -12.660  1.00 29.77      A16S
ATOM  19069  N1  A   A 914     170.264 100.416 -12.711  1.00 29.77      A16S
ATOM  19070  C6  A   A 914     170.017 101.263 -11.700  1.00 29.77      A16S
ATOM  19071  N6  A   A 914     168.924 102.018 -11.758  1.00 29.77      A16S
ATOM  19072  C5  A   A 914     170.932 101.302 -10.647  1.00 29.77      A16S
ATOM  19073  N7  A   A 914     170.965 102.030  -9.470  1.00 29.77      A16S
ATOM  19074  C8  A   A 914     172.070 101.633  -8.887  1.00 29.77      A16S
ATOM  19075  C2* A   A 914     175.179 100.518 -10.213  1.00 19.41      A16S
ATOM  19076  O2* A   A 914     176.056  99.422 -10.379  1.00 19.41      A16S
ATOM  19077  C3* A   A 914     175.828 101.649  -9.420  1.00 19.41      A16S
ATOM  19078  O3* A   A 914     177.203 101.745  -9.785  1.00 19.41      A16S
ATOM  19079  P   A   A 915     177.643 102.332 -11.229  1.00 27.35      A16S
ATOM  19080  O1P A   A 915     178.982 101.721 -11.477  1.00 40.03      A16S
ATOM  19081  O2P A   A 915     177.487 103.824 -11.271  1.00 40.03      A16S
ATOM  19082  O5* A   A 915     176.663 101.669 -12.292  1.00 27.35      A16S
ATOM  19083  C5* A   A 915     177.077 100.533 -13.065  1.00 27.35      A16S
ATOM  19084  C4* A   A 915     176.231 100.406 -14.307  1.00 27.35      A16S
ATOM  19085  O4* A   A 915     174.853 100.094 -13.965  1.00 27.35      A16S
ATOM  19086  C1* A   A 915     173.981 100.674 -14.925  1.00 27.35      A16S
ATOM  19087  N9  A   A 915     173.084 101.635 -14.272  1.00 40.03      A16S
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ATOM  19088  C4  A   A 915     171.909 102.089 -14.812  1.00 40.03      A16S
ATOM  19089  N3  A   A 915     171.338 101.688 -15.952  1.00 40.03      A16S
ATOM  19090  C2  A   A 915     170.226 102.365 -16.176  1.00 40.03      A16S
ATOM  19091  N1  A   A 915     169.666 103.334 -15.454  1.00 40.03      A16S
ATOM  19092  C6  A   A 915     170.272 103.719 -14.318  1.00 40.03      A16S
ATOM  19093  N6  A   A 915     169.729 104.704 -13.614  1.00 40.03      A16S
ATOM  19094  C5  A   A 915     171.448 103.063 -13.954  1.00 40.03      A16S
ATOM  19095  N7  A   A 915     172.283 103.189 -12.855  1.00 40.03      A16S
ATOM  19096  C8  A   A 915     173.231 102.315 -13.084  1.00 40.03      A16S
ATOM  19097  C2* A   A 915     174.854 101.411 -15.940  1.00 27.35      A16S
ATOM  19098  O2* A   A 915     175.100 100.611 -17.074  1.00 27.35      A16S
ATOM  19099  C3* A   A 915     176.125 101.656 -15.148  1.00 27.35      A16S
ATOM  19100  O3* A   A 915     177.211 101.819 -16.020  1.00 27.35      A16S
ATOM  19101  P   G   A 916     177.600 103.292 -16.513  1.00 40.96      A16S
ATOM  19102  O1P G   A 916     178.295 103.153 -17.816  1.00 39.44      A16S
ATOM  19103  O2P G   A 916     178.266 103.997 -15.382  1.00 39.44      A16S
ATOM  19104  O5* G   A 916     176.208 104.017 -16.800  1.00 40.96      A16S
ATOM  19105  C5* G   A 916     175.448 103.672 -17.963  1.00 40.96      A16S
ATOM  19106  C4* G   A 916     174.223 104.550 -18.109  1.00 40.96      A16S
ATOM  19107  O4* G   A 916     173.340 104.399 -16.965  1.00 40.96      A16S
ATOM  19108  C1* G   A 916     172.526 105.554 -16.857  1.00 40.96      A16S
ATOM  19109  N9  G   A 916     172.658 106.141 -15.519  1.00 39.44      A16S
ATOM  19110  C4  G   A 916     171.997 107.263 -15.074  1.00 39.44      A16S
ATOM  19111  N3  G   A 916     171.103 107.975 -15.776  1.00 39.44      A16S
ATOM  19112  C2  G   A 916     170.644 109.000 -15.100  1.00 39.44      A16S
ATOM  19113  N2  G   A 916     169.735 109.794 -15.660  1.00 39.44      A16S
ATOM  19114  N1  G   A 916     171.039 109.322 -13.834  1.00 39.44      A16S
ATOM  19115  C6  G   A 916     171.976 108.621 -13.093  1.00 39.44      A16S
ATOM  19116  O6  G   A 916     172.297 109.029 -11.979  1.00 39.44      A16S
ATOM  19117  C5  G   A 916     172.460 107.486 -13.803  1.00 39.44      A16S
ATOM  19118  N7  G   A 916     173.375 106.507 -13.433  1.00 39.44      A16S
ATOM  19119  C8  G   A 916     173.457 105.729 -14.480  1.00 39.44      A16S
ATOM  19120  C2* G   A 916     172.957 106.524 -17.966  1.00 40.96      A16S
ATOM  19121  O2* G   A 916     172.128 106.343 -19.102  1.00 40.96      A16S
ATOM  19122  C3* G   A 916     174.373 106.057 -18.268  1.00 40.96      A16S
ATOM  19123  O3* G   A 916     174.727 106.456 -19.592  1.00 40.96      A16S
ATOM  19124  P   G   A 917     175.447 107.886 -19.838  1.00 27.65      A16S
ATOM  19125  O1P G   A 917     176.062 107.900 -21.194  1.00 25.82      A16S
ATOM  19126  O2P G   A 917     176.266 108.257 -18.668  1.00 25.82      A16S
ATOM  19127  O5* G   A 917     174.264 108.937 -19.909  1.00 27.65      A16S
ATOM  19128  C5* G   A 917     173.324 108.894 -20.982  1.00 27.65      A16S
ATOM  19129  C4* G   A 917     172.297 109.968 -20.798  1.00 27.65      A16S
ATOM  19130  O4* G   A 917     171.638 109.773 -19.530  1.00 27.65      A16S
ATOM  19131  C1* G   A 917     171.378 111.021 -18.942  1.00 27.65      A16S
ATOM  19132  N9  G   A 917     172.052 111.064 -17.651  1.00 25.82      A16S
ATOM  19133  C4  G   A 917     171.834 111.981 -16.657  1.00 25.82      A16S
ATOM  19134  N3  G   A 917     171.004 113.035 -16.725  1.00 25.82      A16S
ATOM  19135  C2  G   A 917     170.955 113.701 -15.593  1.00 25.82      A16S
ATOM  19136  N2  G   A 917     170.169 114.777 -15.494  1.00 25.82      A16S
ATOM  19137  N1  G   A 917     171.664 113.364 -14.475  1.00 25.82      A16S
ATOM  19138  C6  G   A 917     172.520 112.282 -14.372  1.00 25.82      A16S
ATOM  19139  O6  G   A 917     173.086 112.053 -13.303  1.00 25.82      A16S
ATOM  19140  C5  G   A 917     172.595 111.558 -15.597  1.00 25.82      A16S
ATOM  19141  N7  G   A 917     173.322 110.422 -15.937  1.00 25.82      A16S
ATOM  19142  C8  G   A 917     172.976 110.176 -17.167  1.00 25.82      A16S
ATOM  19143  C2* G   A 917     171.812 112.096 -19.928  1.00 27.65      A16S
ATOM  19144  O2* G   A 917     170.726 112.342 -20.791  1.00 27.65      A16S
ATOM  19145  C3* G   A 917     172.866 111.365 -20.717  1.00 27.65      A16S
ATOM  19146  O3* G   A 917     172.977 111.915 -22.001  1.00 27.65      A16S
ATOM  19147  P   A   A 918     174.203 112.876 -22.320  1.00 25.73      A16S
ATOM  19148  O1P A   A 918     174.133 113.266 -23.756  1.00 23.66      A16S
ATOM  19149  O2P A   A 918     175.437 112.238 -21.770  1.00 23.66      A16S
ATOM  19150  O5* A   A 918     173.874 114.162 -21.459  1.00 25.73      A16S
ATOM  19151  C5* A   A 918     172.883 115.072 -21.903  1.00 25.73      A16S
ATOM  19152  C4* A   A 918     172.656 116.116 -20.863  1.00 25.73      A16S
ATOM  19153  O4* A   A 918     172.325 115.458 -19.620  1.00 25.73      A16S
ATOM  19154  C1* A   A 918     172.727 116.264 -18.540  1.00 25.73      A16S
ATOM  19155  N9  A   A 918     173.522 115.470 -17.605  1.00 23.66      A16S
ATOM  19156  C4  A   A 918     173.687 115.736 -16.269  1.00 23.66      A16S
ATOM  19157  N3  A   A 918     173.159 116.743 -15.570  1.00 23.66      A16S
ATOM  19158  C2  A   A 918     173.530 116.676 -14.295  1.00 23.66      A16S
ATOM  19159  N1  A   A 918     174.304 115.789 -13.685  1.00 23.66      A16S
ATOM  19160  C6  A   A 918     174.814 114.786 -14.410  1.00 23.66      A16S
ATOM  19161  N6  A   A 918     175.582 113.891 -13.795  1.00 23.66      A16S
ATOM  19162  C5  A   A 918     174.502 114.742 -15.780  1.00 23.66      A16S
ATOM  19163  N7  A   A 918     174.855 113.861 -16.788  1.00 23.66      A16S
ATOM  19164  C8  A   A 918     174.243 114.336 -17.847  1.00 23.66      A16S
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ATOM  19165  C2* A   A 918     173.448 117.475 -19.123  1.00 25.73      A16S
ATOM  19166  O2* A   A 918     172.475 118.492 -19.227  1.00 25.73      A16S
ATOM  19167  C3* A   A 918     173.849 116.976 -20.503  1.00 25.73      A16S
ATOM  19168  O3* A   A 918     174.028 118.036 -21.445  1.00 25.73      A16S
ATOM  19169  P   A   A 919     175.445 118.808 -21.531  1.00 32.11      A16S
ATOM  19170  O1P A   A 919     175.339 119.806 -22.638  1.00 21.74      A16S
ATOM  19171  O2P A   A 919     176.584 117.846 -21.501  1.00 21.74      A16S
ATOM  19172  O5* A   A 919     175.553 119.598 -20.154  1.00 32.11      A16S
ATOM  19173  C5* A   A 919     174.898 120.857 -19.965  1.00 32.11      A16S
ATOM  19174  C4* A   A 919     174.833 121.164 -18.502  1.00 32.11      A16S
ATOM  19175  O4* A   A 919     174.363 119.971 -17.842  1.00 32.11      A16S
ATOM  19176  C1* A   A 919     174.998 119.830 -16.598  1.00 32.11      A16S
ATOM  19177  N9  A   A 919     175.761 118.597 -16.618  1.00 21.74      A16S
ATOM  19178  C4  A   A 919     176.260 117.984 -15.509  1.00 21.74      A16S
ATOM  19179  N3  A   A 919     176.115 118.376 -14.245  1.00 21.74      A16S
ATOM  19180  C2  A   A 919     176.748 117.551 -13.420  1.00 21.74      A16S
ATOM  19181  N1  A   A 919     177.461 116.469 -13.694  1.00 21.74      A16S
ATOM  19182  C6  A   A 919     177.590 116.101 -14.983  1.00 21.74      A16S
ATOM  19183  N6  A   A 919     178.312 115.011 -15.257  1.00 21.74      A16S
ATOM  19184  C5  A   A 919     176.953 116.894 -15.958  1.00 21.74      A16S
ATOM  19185  N7  A   A 919     176.875 116.805 -17.338  1.00 21.74      A16S
ATOM  19186  C8  A   A 919     176.152 117.838 -17.676  1.00 21.74      A16S
ATOM  19187  C2* A   A 919     175.910 121.034 -16.394  1.00 32.11      A16S
ATOM  19188  O2* A   A 919     175.217 122.016 -15.644  1.00 32.11      A16S
ATOM  19189  C3* A   A 919     176.159 121.467 -17.829  1.00 32.11      A16S
ATOM  19190  O3* A   A 919     176.459 122.854 -17.897  1.00 32.11      A16S
ATOM  19191  P   U   A 920     177.927 123.369 -17.499  1.00 30.96      A16S
ATOM  19192  O1P U   A 920     177.943 124.847 -17.723  1.00 37.28      A16S
ATOM  19193  O2P U   A 920     178.917 122.505 -18.180  1.00 37.28      A16S
ATOM  19194  O5* U   A 920     178.063 123.065 -15.939  1.00 30.96      A16S
ATOM  19195  C5* U   A 920     177.451 123.936 -14.977  1.00 30.96      A16S
ATOM  19196  C4* U   A 920     178.099 123.775 -13.631  1.00 30.96      A16S
ATOM  19197  O4* U   A 920     177.839 122.454 -13.119  1.00 30.96      A16S
ATOM  19198  C1* U   A 920     178.941 122.019 -12.361  1.00 30.96      A16S
ATOM  19199  N1  U   A 920     179.445 120.771 -12.955  1.00 37.28      A16S
ATOM  19200  C6  U   A 920     179.330 120.521 -14.294  1.00 37.28      A16S
ATOM  19201  C2  U   A 920     180.036 119.841 -12.105  1.00 37.28      A16S
ATOM  19202  O2  U   A 920     180.185 120.022 -10.909  1.00 37.28      A16S
ATOM  19203  N3  U   A 920     180.452 118.692 -12.705  1.00 37.28      A16S
ATOM  19204  C4  U   A 920     180.357 118.374 -14.022  1.00 37.28      A16S
ATOM  19205  O4  U   A 920     180.752 117.270 -14.398  1.00 37.28      A16S
ATOM  19206  C5  U   A 920     179.753 119.387 -14.843  1.00 37.28      A16S
ATOM  19207  C2* U   A 920     179.968 123.147 -12.348  1.00 30.96      A16S
ATOM  19208  O2* U   A 920     179.754 123.967 -11.224  1.00 30.96      A16S
ATOM  19209  C3* U   A 920     179.602 123.894 -13.606  1.00 30.96      A16S
ATOM  19210  O3* U   A 920     180.010 125.233 -13.520  1.00 30.96      A16S
ATOM  19211  P   U   A 921     181.438 125.649 -14.108  1.00 19.46      A16S
ATOM  19212  O1P U   A 921     181.404 127.116 -14.351  1.00 36.43      A16S
ATOM  19213  O2P U   A 921     181.742 124.732 -15.242  1.00 36.43      A16S
ATOM  19214  O5* U   A 921     182.436 125.284 -12.922  1.00 19.46      A16S
ATOM  19215  C5* U   A 921     182.357 125.960 -11.673  1.00 19.46      A16S
ATOM  19216  C4* U   A 921     183.082 125.178 -10.620  1.00 19.46      A16S
ATOM  19217  O4* U   A 921     182.494 123.858 -10.563  1.00 19.46      A16S
ATOM  19218  C1* U   A 921     183.476 122.911 -10.167  1.00 19.46      A16S
ATOM  19219  N1  U   A 921     183.540 121.834 -11.164  1.00 36.43      A16S
ATOM  19220  C6  U   A 921     182.988 121.963 -12.413  1.00 36.43      A16S
ATOM  19221  C2  U   A 921     184.182 120.674 -10.792  1.00 36.43      A16S
ATOM  19222  O2  U   A 921     184.687 120.531  -9.702  1.00 36.43      A16S
ATOM  19223  N3  U   A 921     184.214 119.688 -11.744  1.00 36.43      A16S
ATOM  19224  C4  U   A 921     183.680 119.747 -13.009  1.00 36.43      A16S
ATOM  19225  O4  U   A 921     183.824 118.790 -13.773  1.00 36.43      A16S
ATOM  19226  C5  U   A 921     183.031 120.985 -13.324  1.00 36.43      A16S
ATOM  19227  C2* U   A 921     184.800 123.650 -10.023  1.00 19.46      A16S
ATOM  19228  O2* U   A 921     185.057 123.955  -8.667  1.00 19.46      A16S
ATOM  19229  C3* U   A 921     184.546 124.882 -10.874  1.00 19.46      A16S
ATOM  19230  O3* U   A 921     185.430 125.922 -10.545  1.00 19.46      A16S
ATOM  19231  P   G   A 922     186.722 126.152 -11.474  1.00 41.61      A16S
ATOM  19232  O1P G   A 922     187.482 127.273 -10.857  1.00 31.33      A16S
ATOM  19233  O2P G   A 922     186.276 126.272 -12.889  1.00 31.33      A16S
ATOM  19234  O5* G   A 922     187.562 124.798 -11.310  1.00 41.61      A16S
ATOM  19235  C5* G   A 922     188.286 124.553 -10.092  1.00 41.61      A16S
ATOM  19236  C4* G   A 922     188.816 123.133 -10.013  1.00 41.61      A16S
ATOM  19237  O4* G   A 922     187.803 122.175 -10.390  1.00 41.61      A16S
ATOM  19238  C1* G   A 922     188.423 120.932 -10.683  1.00 41.61      A16S
ATOM  19239  N9  G   A 922     187.941 120.437 -11.972  1.00 31.33      A16S
ATOM  19240  C4  G   A 922     187.981 119.139 -12.404  1.00 31.33      A16S
ATOM  19241  N3  G   A 922     188.498 118.106 -11.729  1.00 31.33      A16S
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ATOM  19242  C2  G   A 922     188.380 116.983 -12.398  1.00 31.33      A16S
ATOM  19243  N2  G   A 922     188.858 115.857 -11.888  1.00 31.33      A16S
ATOM  19244  N1  G   A 922     187.783 116.878 -13.625  1.00 31.33      A16S
ATOM  19245  C6  G   A 922     187.237 117.934 -14.336  1.00 31.33      A16S
ATOM  19246  O6  G   A 922     186.704 117.734 -15.431  1.00 31.33      A16S
ATOM  19247  C5  G   A 922     187.380 119.145 -13.641  1.00 31.33      A16S
ATOM  19248  N7  G   A 922     186.996 120.425 -13.997  1.00 31.33      A16S
ATOM  19249  C8  G   A 922     187.350 121.161 -12.978  1.00 31.33      A16S
ATOM  19250  C2* G   A 922     189.925 121.172 -10.674  1.00 41.61      A16S
ATOM  19251  O2* G   A 922     190.415 120.783  -9.407  1.00 41.61      A16S
ATOM  19252  C3* G   A 922     189.996 122.682 -10.848  1.00 41.61      A16S
ATOM  19253  O3* G   A 922     191.232 123.125 -10.342  1.00 41.61      A16S
ATOM  19254  P   A   A 923     192.506 123.170 -11.317  1.00 40.89      A16S
ATOM  19255  O1P A   A 923     193.601 123.799 -10.550  1.00 30.01      A16S
ATOM  19256  O2P A   A 923     192.087 123.756 -12.613  1.00 30.01      A16S
ATOM  19257  O5* A   A 923     192.887 121.644 -11.534  1.00 40.89      A16S
ATOM  19258  C5* A   A 923     193.506 120.896 -10.490  1.00 40.89      A16S
ATOM  19259  C4* A   A 923     193.609 119.457 -10.896  1.00 40.89      A16S
ATOM  19260  O4* A   A 923     192.273 118.957 -11.132  1.00 40.89      A16S
ATOM  19261  C1* A   A 923     192.276 118.066 -12.237  1.00 40.89      A16S
ATOM  19262  N9  A   A 923     191.569 118.705 -13.345  1.00 30.01      A16S
ATOM  19263  C4  A   A 923     190.935 118.059 -14.370  1.00 30.01      A16S
ATOM  19264  N3  A   A 923     190.858 116.737 -14.565  1.00 30.01      A16S
ATOM  19265  C2  A   A 923     190.146 116.475 -15.654  1.00 30.01      A16S
ATOM  19266  N1  A   A 923     189.550 117.325 -16.504  1.00 30.01      A16S
ATOM  19267  C6  A   A 923     189.657 118.643 -16.276  1.00 30.01      A16S
ATOM  19268  N6  A   A 923     189.069 119.475 -17.118  1.00 30.01      A16S
ATOM  19269  C5  A   A 923     190.382 119.051 -15.158  1.00 30.01      A16S
ATOM  19270  N7  A   A 923     190.681 120.303 -14.652  1.00 30.01      A16S
ATOM  19271  C8  A   A 923     191.392 120.045 -13.584  1.00 30.01      A16S
ATOM  19272  C2* A   A 923     193.728 117.857 -12.627  1.00 40.89      A16S
ATOM  19273  O2* A   A 923     194.268 116.775 -11.883  1.00 40.89      A16S
ATOM  19274  C3* A   A 923     194.324 119.189 -12.213  1.00 40.89      A16S
ATOM  19275  O3* A   A 923     195.734 119.118 -12.110  1.00 40.89      A16S
ATOM  19276  P   C   A 924     196.638 119.515 -13.377  1.00 40.30      A16S
ATOM  19277  O1P C   A 924     198.006 119.329 -12.842  1.00 25.23      A16S
ATOM  19278  O2P C   A 924     196.227 120.828 -13.944  1.00 25.23      A16S
ATOM  19279  O5* C   A 924     196.345 118.390 -14.467  1.00 40.30      A16S
ATOM  19280  C5* C   A 924     196.784 117.035 -14.251  1.00 40.30      A16S
ATOM  19281  C4* C   A 924     196.286 116.125 -15.351  1.00 40.30      A16S
ATOM  19282  O4* C   A 924     194.838 116.181 -15.395  1.00 40.30      A16S
ATOM  19283  C1* C   A 924     194.393 116.046 -16.731  1.00 40.30      A16S
ATOM  19284  N1  C   A 924     193.737 117.294 -17.139  1.00 25.23      A16S
ATOM  19285  C6  C   A 924     194.212 118.503 -16.731  1.00 25.23      A16S
ATOM  19286  C2  C   A 924     192.625 117.224 -17.967  1.00 25.23      A16S
ATOM  19287  O2  C   A 924     192.230 116.109 -18.341  1.00 25.23      A16S
ATOM  19288  N3  C   A 924     192.013 118.365 -18.357  1.00 25.23      A16S
ATOM  19289  C4  C   A 924     192.498 119.536 -17.972  1.00 25.23      A16S
ATOM  19290  N4  C   A 924     191.897 120.630 -18.405  1.00 25.23      A16S
ATOM  19291  C5  C   A 924     193.633 119.638 -17.129  1.00 25.23      A16S
ATOM  19292  C2* C   A 924     195.619 115.787 -17.598  1.00 40.30      A16S
ATOM  19293  O2* C   A 924     195.773 114.385 -17.742  1.00 40.30      A16S
ATOM  19294  C3* C   A 924     196.715 116.452 -16.772  1.00 40.30      A16S
ATOM  19295  O3* C   A 924     198.015 115.967 -17.084  1.00 40.30      A16S
ATOM  19296  P   G   A 925     198.901 116.730 -18.187  1.00 37.99      A16S
ATOM  19297  O1P G   A 925     200.209 116.059 -18.099  1.00 55.14      A16S
ATOM  19298  O2P G   A 925     198.821 118.200 -18.063  1.00 55.14      A16S
ATOM  19299  O5* G   A 925     198.219 116.362 -19.573  1.00 37.99      A16S
ATOM  19300  C5* G   A 925     198.265 115.009 -20.094  1.00 37.99      A16S
ATOM  19301  C4* G   A 925     197.576 114.943 -21.440  1.00 37.99      A16S
ATOM  19302  O4* G   A 925     196.142 115.082 -21.280  1.00 37.99      A16S
ATOM  19303  C1* G   A 925     195.616 115.823 -22.364  1.00 37.99      A16S
ATOM  19304  N9  G   A 925     195.004 117.035 -21.835  1.00 55.14      A16S
ATOM  19305  C4  G   A 925     194.002 117.767 -22.420  1.00 55.14      A16S
ATOM  19306  N3  G   A 925     193.379 117.478 -23.581  1.00 55.14      A16S
ATOM  19307  C2  G   A 925     192.456 118.376 -23.878  1.00 55.14      A16S
ATOM  19308  N2  G   A 925     191.719 118.245 -24.987  1.00 55.14      A16S
ATOM  19309  N1  G   A 925     192.181 119.472 -23.114  1.00 55.14      A16S
ATOM  19310  C6  G   A 925     192.815 119.794 -21.928  1.00 55.14      A16S
ATOM  19311  O6  G   A 925     192.500 120.821 -21.328  1.00 55.14      A16S
ATOM  19312  C5  G   A 925     193.793 118.833 -21.581  1.00 55.14      A16S
ATOM  19313  N7  G   A 925     194.634 118.766 -20.483  1.00 55.14      A16S
ATOM  19314  C8  G   A 925     195.329 117.682 -20.673  1.00 55.14      A16S
ATOM  19315  C2* G   A 925     196.765 116.138 -23.327  1.00 37.99      A16S
ATOM  19316  O2* G   A 925     196.799 115.180 -24.362  1.00 37.99      A16S
ATOM  19317  C3* G   A 925     197.975 116.040 -22.415  1.00 37.99      A16S
ATOM  19318  O3* G   A 925     199.131 115.665 -23.140  1.00 37.99      A16S
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ATOM  19319  P   G   A 926     200.420 116.622 -23.138  1.00 56.33      A16S
ATOM  19320  O1P G   A 926     201.499 115.872 -22.443  1.00 38.43      A16S
ATOM  19321  O2P G   A 926     200.028 117.958 -22.652  1.00 38.43      A16S
ATOM  19322  O5* G   A 926     200.761 116.776 -24.680  1.00 56.33      A16S
ATOM  19323  C5* G   A 926     199.867 116.242 -25.655  1.00 56.33      A16S
ATOM  19324  C4* G   A 926     200.598 115.296 -26.557  1.00 56.33      A16S
ATOM  19325  O4* G   A 926     201.559 114.523 -25.804  1.00 56.33      A16S
ATOM  19326  C1* G   A 926     201.684 113.242 -26.386  1.00 56.33      A16S
ATOM  19327  N9  G   A 926     201.449 112.238 -25.357  1.00 38.43      A16S
ATOM  19328  C4  G   A 926     201.786 110.908 -25.427  1.00 38.43      A16S
ATOM  19329  N3  G   A 926     202.368 110.298 -26.472  1.00 38.43      A16S
ATOM  19330  C2  G   A 926     202.580 109.021 -26.240  1.00 38.43      A16S
ATOM  19331  N2  G   A 926     203.135 108.264 -27.185  1.00 38.43      A16S
ATOM  19332  N1  G   A 926     202.258 108.388 -25.069  1.00 38.43      A16S
ATOM  19333  C6  G   A 926     201.655 108.993 -23.973  1.00 38.43      A16S
ATOM  19334  O6  G   A 926     201.401 108.323 -22.951  1.00 38.43      A16S
ATOM  19335  C5  G   A 926     201.410 110.369 -24.216  1.00 38.43      A16S
ATOM  19336  N7  G   A 926     200.826 111.335 -23.408  1.00 38.43      A16S
ATOM  19337  C8  G   A 926     200.870 112.427 -24.127  1.00 38.43      A16S
ATOM  19338  C2* G   A 926     200.707 113.156 -27.560  1.00 56.33      A16S
ATOM  19339  O2* G   A 926     201.399 113.412 -28.765  1.00 56.33      A16S
ATOM  19340  C3* G   A 926     199.721 114.264 -27.227  1.00 56.33      A16S
ATOM  19341  O3* G   A 926     199.118 114.804 -28.380  1.00 56.33      A16S
ATOM  19342  P   G   A 927     197.619 115.355 -28.292  1.00 28.32      A16S
ATOM  19343  O1P G   A 927     196.884 114.491 -27.328  1.00 41.55      A16S
ATOM  19344  O2P G   A 927     197.108 115.504 -29.686  1.00 41.55      A16S
ATOM  19345  O5* G   A 927     197.803 116.817 -27.687  1.00 28.32      A16S
ATOM  19346  C5* G   A 927     196.748 117.443 -26.949  1.00 28.32      A16S
ATOM  19347  C4* G   A 927     195.925 118.335 -27.851  1.00 28.32      A16S
ATOM  19348  O4* G   A 927     194.615 118.461 -27.252  1.00 28.32      A16S
ATOM  19349  C1* G   A 927     194.098 119.758 -27.487  1.00 28.32      A16S
ATOM  19350  N9  G   A 927     193.992 120.449 -26.209  1.00 41.55      A16S
ATOM  19351  C4  G   A 927     193.213 121.535 -25.959  1.00 41.55      A16S
ATOM  19352  N3  G   A 927     192.419 122.146 -26.852  1.00 41.55      A16S
ATOM  19353  C2  G   A 927     191.803 123.179 -26.329  1.00 41.55      A16S
ATOM  19354  N2  G   A 927     190.992 123.918 -27.097  1.00 41.55      A16S
ATOM  19355  N1  G   A 927     191.940 123.571 -25.019  1.00 41.55      A16S
ATOM  19356  C6  G   A 927     192.749 122.948 -24.080  1.00 41.55      A16S
ATOM  19357  O6  G   A 927     192.791 123.374 -22.921  1.00 41.55      A16S
ATOM  19358  C5  G   A 927     193.434 121.850 -24.639  1.00 41.55      A16S
ATOM  19359  N7  G   A 927     194.346 120.977 -24.071  1.00 41.55      A16S
ATOM  19360  C8  G   A 927     194.648 120.161 -25.037  1.00 41.55      A16S
ATOM  19361  C2* G   A 927     195.074 120.481 -28.400  1.00 28.32      A16S
ATOM  19362  O2* G   A 927     194.646 120.288 -29.730  1.00 28.32      A16S
ATOM  19363  C3* G   A 927     196.380 119.777 -28.058  1.00 28.32      A16S
ATOM  19364  O3* G   A 927     197.362 119.968 -29.062  1.00 28.32      A16S
ATOM  19365  P   G   A 928     198.205 121.342 -29.092  1.00 39.31      A16S
ATOM  19366  O1P G   A 928     199.038 121.299 -30.310  1.00 45.72      A16S
ATOM  19367  O2P G   A 928     198.858 121.554 -27.774  1.00 45.72      A16S
ATOM  19368  O5* G   A 928     197.114 122.486 -29.300  1.00 39.31      A16S
ATOM  19369  C5* G   A 928     196.486 122.685 -30.584  1.00 39.31      A16S
ATOM  19370  C4* G   A 928     195.674 123.969 -30.591  1.00 39.31      A16S
ATOM  19371  O4* G   A 928     194.527 123.852 -29.705  1.00 39.31      A16S
ATOM  19372  C1* G   A 928     194.295 125.085 -29.041  1.00 39.31      A16S
ATOM  19373  N9  G   A 928     194.597 124.883 -27.625  1.00 45.72      A16S
ATOM  19374  C4  G   A 928     194.375 125.756 -26.588  1.00 45.72      A16S
ATOM  19375  N3  G   A 928     193.785 126.962 -26.678  1.00 45.72      A16S
ATOM  19376  C2  G   A 928     193.737 127.573 -25.505  1.00 45.72      A16S
ATOM  19377  N2  G   A 928     193.156 128.770 -25.404  1.00 45.72      A16S
ATOM  19378  N1  G   A 928     194.246 127.051 -24.342  1.00 45.72      A16S
ATOM  19379  C6  G   A 928     194.859 125.808 -24.229  1.00 45.72      A16S
ATOM  19380  O6  G   A 928     195.293 125.423 -23.131  1.00 45.72      A16S
ATOM  19381  C5  G   A 928     194.897 125.137 -25.472  1.00 45.72      A16S
ATOM  19382  N7  G   A 928     195.402 123.889 -25.792  1.00 45.72      A16S
ATOM  19383  C8  G   A 928     195.199 123.780 -27.074  1.00 45.72      A16S
ATOM  19384  C2* G   A 928     195.243 126.103 -29.672  1.00 39.31      A16S
ATOM  19385  O2* G   A 928     194.623 126.699 -30.793  1.00 39.31      A16S
ATOM  19386  C3* G   A 928     196.394 125.211 -30.105  1.00 39.31      A16S
ATOM  19387  O3* G   A 928     197.200 125.808 -31.104  1.00 39.31      A16S
ATOM  19388  P   G   A 929     198.504 126.634 -30.660  1.00 48.07      A16S
ATOM  19389  O1P G   A 929     199.282 126.924 -31.885  1.00 42.12      A16S
ATOM  19390  O2P G   A 929     199.146 125.907 -29.536  1.00 42.12      A16S
ATOM  19391  O5* G   A 929     197.904 128.000 -30.117  1.00 48.07      A16S
ATOM  19392  C5* G   A 929     196.955 128.719 -30.908  1.00 48.07      A16S
ATOM  19393  C4* G   A 929     196.429 129.900 -30.149  1.00 48.07      A16S
ATOM  19394  O4* G   A 929     195.585 129.463 -29.057  1.00 48.07      A16S
ATOM  19395  C1* G   A 929     195.716 130.362 -27.969  1.00 48.07      A16S
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ATOM  19396  N9  G   A 929     196.193 129.617 -26.805  1.00 42.12      A16S
ATOM  19397  C4  G   A 929     196.138 130.043 -25.503  1.00 42.12      A16S
ATOM  19398  N3  G   A 929     195.649 131.227 -25.081  1.00 42.12      A16S
ATOM  19399  C2  G   A 929     195.713 131.349 -23.770  1.00 42.12      A16S
ATOM  19400  N2  G   A 929     195.247 132.459 -23.196  1.00 42.12      A16S
ATOM  19401  N1  G   A 929     196.230 130.386 -22.932  1.00 42.12      A16S
ATOM  19402  C6  G   A 929     196.741 129.158 -23.344  1.00 42.12      A16S
ATOM  19403  O6  G   A 929     197.177 128.363 -22.511  1.00 42.12      A16S
ATOM  19404  C5  G   A 929     196.671 129.012 -24.755  1.00 42.12      A16S
ATOM  19405  N7  G   A 929     197.066 127.962 -25.573  1.00 42.12      A16S
ATOM  19406  C8  G   A 929     196.769 128.367 -26.779  1.00 42.12      A16S
ATOM  19407  C2* G   A 929     196.681 131.466 -28.400  1.00 48.07      A16S
ATOM  19408  O2* G   A 929     195.979 132.553 -28.969  1.00 48.07      A16S
ATOM  19409  C3* G   A 929     197.476 130.761 -29.478  1.00 48.07      A16S
ATOM  19410  O3* G   A 929     198.057 131.687 -30.353  1.00 48.07      A16S
ATOM  19411  P   C   A 930     199.451 132.343 -29.950  1.00 64.58      A16S
ATOM  19412  O1P C   A 930     199.753 133.274 -31.054  1.00 25.62      A16S
ATOM  19413  O2P C   A 930     200.442 131.285 -29.575  1.00 25.62      A16S
ATOM  19414  O5* C   A 930     199.100 133.139 -28.616  1.00 64.58      A16S
ATOM  19415  C5* C   A 930     198.427 134.399 -28.667  1.00 64.58      A16S
ATOM  19416  C4* C   A 930     198.417 135.041 -27.301  1.00 64.58      A16S
ATOM  19417  O4* C   A 930     197.617 134.248 -26.391  1.00 64.58      A16S
ATOM  19418  C1* C   A 930     198.116 134.391 -25.075  1.00 64.58      A16S
ATOM  19419  N1  C   A 930     198.574 133.091 -24.584  1.00 25.62      A16S
ATOM  19420  C6  C   A 930     198.836 132.059 -25.435  1.00 25.62      A16S
ATOM  19421  C2  C   A 930     198.760 132.938 -23.213  1.00 25.62      A16S
ATOM  19422  O2  C   A 930     198.508 133.894 -22.468  1.00 25.62      A16S
ATOM  19423  N3  C   A 930     199.215 131.763 -22.733  1.00 25.62      A16S
ATOM  19424  C4  C   A 930     199.489 130.770 -23.570  1.00 25.62      A16S
ATOM  19425  N4  C   A 930     199.963 129.645 -23.058  1.00 25.62      A16S
ATOM  19426  C5  C   A 930     199.295 130.893 -24.974  1.00 25.62      A16S
ATOM  19427  C2* C   A 930     199.315 135.323 -25.133  1.00 64.58      A16S
ATOM  19428  O2* C   A 930     198.912 136.640 -24.816  1.00 64.58      A16S
ATOM  19429  C3* C   A 930     199.746 135.166 -26.577  1.00 64.58      A16S
ATOM  19430  O3* C   A 930     200.504 136.282 -26.967  1.00 64.58      A16S
ATOM  19431  P   C   A 931     202.079 136.293 -26.676  1.00 61.79      A16S
ATOM  19432  O1P C   A 931     202.481 137.698 -26.918  1.00 41.47      A16S
ATOM  19433  O2P C   A 931     202.728 135.198 -27.440  1.00 41.47      A16S
ATOM  19434  O5* C   A 931     202.222 135.945 -25.124  1.00 61.79      A16S
ATOM  19435  C5* C   A 931     201.850 136.909 -24.121  1.00 61.79      A16S
ATOM  19436  C4* C   A 931     202.342 136.501 -22.746  1.00 61.79      A16S
ATOM  19437  O4* C   A 931     201.702 135.282 -22.291  1.00 61.79      A16S
ATOM  19438  C1* C   A 931     202.438 134.771 -21.203  1.00 61.79      A16S
ATOM  19439  N1  C   A 931     202.607 133.319 -21.319  1.00 41.47      A16S
ATOM  19440  C6  C   A 931     202.662 132.690 -22.528  1.00 41.47      A16S
ATOM  19441  C2  C   A 931     202.752 132.583 -20.138  1.00 41.47      A16S
ATOM  19442  O2  C   A 931     202.653 133.170 -19.051  1.00 41.47      A16S
ATOM  19443  N3  C   A 931     202.991 131.259 -20.201  1.00 41.47      A16S
ATOM  19444  C4  C   A 931     203.071 130.660 -21.376  1.00 41.47      A16S
ATOM  19445  N4  C   A 931     203.327 129.363 -21.378  1.00 41.47      A16S
ATOM  19446  C5  C   A 931     202.895 131.370 -22.601  1.00 41.47      A16S
ATOM  19447  C2* C   A 931     203.791 135.475 -21.190  1.00 61.79      A16S
ATOM  19448  O2* C   A 931     203.799 136.364 -20.094  1.00 61.79      A16S
ATOM  19449  C3* C   A 931     203.810 136.173 -22.550  1.00 61.79      A16S
ATOM  19450  O3* C   A 931     204.639 137.332 -22.526  1.00 61.79      A16S
ATOM  19451  P   C   A 932     206.213 137.185 -22.182  1.00 41.12      A16S
ATOM  19452  O1P C   A 932     206.880 138.470 -22.571  1.00 25.65      A16S
ATOM  19453  O2P C   A 932     206.746 135.883 -22.697  1.00 25.65      A16S
ATOM  19454  O5* C   A 932     206.213 137.090 -20.599  1.00 41.12      A16S
ATOM  19455  C5* C   A 932     207.345 136.632 -19.903  1.00 41.12      A16S
ATOM  19456  C4* C   A 932     206.941 136.220 -18.532  1.00 41.12      A16S
ATOM  19457  O4* C   A 932     205.963 135.169 -18.643  1.00 41.12      A16S
ATOM  19458  C1* C   A 932     206.193 134.200 -17.641  1.00 41.12      A16S
ATOM  19459  N1  C   A 932     206.461 132.902 -18.288  1.00 25.65      A16S
ATOM  19460  C6  C   A 932     206.408 132.765 -19.646  1.00 25.65      A16S
ATOM  19461  C2  C   A 932     206.779 131.794 -17.481  1.00 25.65      A16S
ATOM  19462  O2  C   A 932     206.822 131.938 -16.253  1.00 25.65      A16S
ATOM  19463  N3  C   A 932     207.031 130.598 -18.059  1.00 25.65      A16S
ATOM  19464  C4  C   A 932     206.971 130.476 -19.383  1.00 25.65      A16S
ATOM  19465  N4  C   A 932     207.209 129.282 -19.902  1.00 25.65      A16S
ATOM  19466  C5  C   A 932     206.655 131.580 -20.231  1.00 25.65      A16S
ATOM  19467  C2* C   A 932     207.364 134.686 -16.785  1.00 41.12      A16S
ATOM  19468  O2* C   A 932     206.882 135.340 -15.635  1.00 41.12      A16S
ATOM  19469  C3* C   A 932     208.079 135.617 -17.746  1.00 41.12      A16S
ATOM  19470  O3* C   A 932     208.850 136.626 -17.119  1.00 41.12      A16S
ATOM  19471  P   G   A 933     210.438 136.654 -17.342  1.00 35.63      A16S
ATOM  19472  O1P G   A 933     210.938 137.924 -16.779  1.00 31.48      A16S
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ATOM  19473  O2P G   A 933     210.771 136.311 -18.761  1.00 31.48      A16S
ATOM  19474  O5* G   A 933     210.942 135.509 -16.365  1.00 35.63      A16S
ATOM  19475  C5* G   A 933     210.976 135.754 -14.975  1.00 35.63      A16S
ATOM  19476  C4* G   A 933     211.294 134.502 -14.240  1.00 35.63      A16S
ATOM  19477  O4* G   A 933     210.333 133.512 -14.629  1.00 35.63      A16S
ATOM  19478  C1* G   A 933     210.912 132.229 -14.546  1.00 35.63      A16S
ATOM  19479  N9  G   A 933     210.758 131.575 -15.833  1.00 31.48      A16S
ATOM  19480  C4  G   A 933     210.755 130.229 -16.042  1.00 31.48      A16S
ATOM  19481  N3  G   A 933     210.919 129.290 -15.096  1.00 31.48      A16S
ATOM  19482  C2  G   A 933     210.861 128.073 -15.599  1.00 31.48      A16S
ATOM  19483  N2  G   A 933     211.011 127.010 -14.796  1.00 31.48      A16S
ATOM  19484  N1  G   A 933     210.655 127.803 -16.927  1.00 31.48      A16S
ATOM  19485  C6  G   A 933     210.491 128.762 -17.919  1.00 31.48      A16S
ATOM  19486  O6  G   A 933     210.324 128.416 -19.087  1.00 31.48      A16S
ATOM  19487  C5  G   A 933     210.551 130.068 -17.393  1.00 31.48      A16S
ATOM  19488  N7  G   A 933     210.440 131.299 -18.026  1.00 31.48      A16S
ATOM  19489  C8  G   A 933     210.574 132.165 -17.061  1.00 31.48      A16S
ATOM  19490  C2* G   A 933     212.371 132.395 -14.145  1.00 35.63      A16S
ATOM  19491  O2* G   A 933     212.475 132.124 -12.762  1.00 35.63      A16S
ATOM  19492  C3* G   A 933     212.626 133.847 -14.536  1.00 35.63      A16S
ATOM  19493  O3* G   A 933     213.683 134.453 -13.803  1.00 35.63      A16S
ATOM  19494  P   C   A 934     214.851 135.219 -14.600  1.00 38.65      A16S
ATOM  19495  O1P C   A 934     215.524 136.125 -13.626  1.00 66.29      A16S
ATOM  19496  O2P C   A 934     214.278 135.787 -15.860  1.00 66.29      A16S
ATOM  19497  O5* C   A 934     215.870 134.052 -14.971  1.00 38.65      A16S
ATOM  19498  C5* C   A 934     216.333 133.124 -13.970  1.00 38.65      A16S
ATOM  19499  C4* C   A 934     216.868 131.883 -14.636  1.00 38.65      A16S
ATOM  19500  O4* C   A 934     217.972 132.232 -15.516  1.00 38.65      A16S
ATOM  19501  C1* C   A 934     219.011 131.306 -15.328  1.00 38.65      A16S
ATOM  19502  N1  C   A 934     220.272 131.902 -15.787  1.00 66.29      A16S
ATOM  19503  C6  C   A 934     221.191 132.395 -14.905  1.00 66.29      A16S
ATOM  19504  C2  C   A 934     220.525 131.938 -17.163  1.00 66.29      A16S
ATOM  19505  O2  C   A 934     219.664 131.501 -17.947  1.00 66.29      A16S
ATOM  19506  N3  C   A 934     221.697 132.449 -17.604  1.00 66.29      A16S
ATOM  19507  C4  C   A 934     222.589 132.923 -16.731  1.00 66.29      A16S
ATOM  19508  N4  C   A 934     223.731 133.428 -17.208  1.00 66.29      A16S
ATOM  19509  C5  C   A 934     222.352 132.907 -15.329  1.00 66.29      A16S
ATOM  19510  C2* C   A 934     218.894 130.862 -13.871  1.00 38.65      A16S
ATOM  19511  O2* C   A 934     219.506 129.605 -13.671  1.00 38.65      A16S
ATOM  19512  C3* C   A 934     217.380 130.763 -13.732  1.00 38.65      A16S
ATOM  19513  O3* C   A 934     217.014 129.523 -14.322  1.00 38.65      A16S
ATOM  19514  P   A   A 935     215.881 128.614 -13.650  1.00 42.24      A16S
ATOM  19515  O1P A   A 935     214.906 129.552 -13.022  1.00 33.94      A16S
ATOM  19516  O2P A   A 935     216.542 127.574 -12.814  1.00 33.94      A16S
ATOM  19517  O5* A   A 935     215.210 127.897 -14.902  1.00 42.24      A16S
ATOM  19518  C5* A   A 935     214.781 126.534 -14.816  1.00 42.24      A16S
ATOM  19519  C4* A   A 935     214.389 126.024 -16.177  1.00 42.24      A16S
ATOM  19520  O4* A   A 935     213.303 126.824 -16.709  1.00 42.24      A16S
ATOM  19521  C1* A   A 935     213.438 126.946 -18.111  1.00 42.24      A16S
ATOM  19522  N9  A   A 935     213.579 128.361 -18.437  1.00 33.94      A16S
ATOM  19523  C4  A   A 935     213.521 128.908 -19.693  1.00 33.94      A16S
ATOM  19524  N3  A   A 935     213.360 128.261 -20.859  1.00 33.94      A16S
ATOM  19525  C2  A   A 935     213.337 129.122 -21.878  1.00 33.94      A16S
ATOM  19526  N1  A   A 935     213.449 130.452 -21.861  1.00 33.94      A16S
ATOM  19527  C6  A   A 935     213.607 131.066 -20.673  1.00 33.94      A16S
ATOM  19528  N6  A   A 935     213.703 132.387 -20.655  1.00 33.94      A16S
ATOM  19529  C5  A   A 935     213.655 130.269 -19.520  1.00 33.94      A16S
ATOM  19530  N7  A   A 935     213.820 130.577 -18.179  1.00 33.94      A16S
ATOM  19531  C8  A   A 935     213.772 129.411 -17.581  1.00 33.94      A16S
ATOM  19532  C2* A   A 935     214.651 126.126 -18.524  1.00 42.24      A16S
ATOM  19533  O2* A   A 935     214.204 124.828 -18.825  1.00 42.24      A16S
ATOM  19534  C3* A   A 935     215.462 126.122 -17.241  1.00 42.24      A16S
ATOM  19535  O3* A   A 935     216.372 125.044 -17.176  1.00 42.24      A16S
ATOM  19536  P   C   A 936     217.879 125.267 -17.675  1.00 38.19      A16S
ATOM  19537  O1P C   A 936     218.561 124.024 -17.274  1.00 18.81      A16S
ATOM  19538  O2P C   A 936     218.424 126.585 -17.216  1.00 18.81      A16S
ATOM  19539  O5* C   A 936     217.740 125.323 -19.264  1.00 38.19      A16S
ATOM  19540  C5* C   A 936     217.355 124.152 -19.994  1.00 38.19      A16S
ATOM  19541  C4* C   A 936     216.986 124.491 -21.415  1.00 38.19      A16S
ATOM  19542  O4* C   A 936     215.983 125.533 -21.419  1.00 38.19      A16S
ATOM  19543  C1* C   A 936     216.035 126.228 -22.651  1.00 38.19      A16S
ATOM  19544  N1  C   A 936     216.222 127.658 -22.419  1.00 18.81      A16S
ATOM  19545  C6  C   A 936     216.472 128.172 -21.176  1.00 18.81      A16S
ATOM  19546  C2  C   A 936     216.163 128.493 -23.533  1.00 18.81      A16S
ATOM  19547  O2  C   A 936     215.911 127.977 -24.639  1.00 18.81      A16S
ATOM  19548  N3  C   A 936     216.381 129.828 -23.382  1.00 18.81      A16S
ATOM  19549  C4  C   A 936     216.634 130.325 -22.164  1.00 18.81      A16S
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ATOM  19550  N4   C   A 936     216.843 131.643 -22.049  1.00 18.81      A16S
ATOM  19551  C5   C   A 936     216.683 129.488 -21.004  1.00 18.81      A16S
ATOM  19552  C2*  C   A 936     217.249 125.727 -23.418  1.00 38.19      A16S
ATOM  19553  O2*  C   A 936     216.833 124.886 -24.475  1.00 38.19      A16S
ATOM  19554  C3*  C   A 936     218.062 125.070 -22.310  1.00 38.19      A16S
ATOM  19555  O3*  C   A 936     218.958 124.113 -22.833  1.00 38.19      A16S
ATOM  19556  P    A   A 937     220.481 124.538 -23.109  1.00 33.15      A16S
ATOM  19557  O1P  A   A 937     221.100 123.338 -23.730  1.00 51.23      A16S
ATOM  19558  O2P  A   A 937     221.045 125.090 -21.837  1.00 51.23      A16S
ATOM  19559  O5*  A   A 937     220.405 125.703 -24.196  1.00 33.15      A16S
ATOM  19560  C5*  A   A 937     220.221 125.385 -25.580  1.00 33.15      A16S
ATOM  19561  C4*  A   A 937     219.831 126.611 -26.366  1.00 33.15      A16S
ATOM  19562  O4*  A   A 937     218.758 127.279 -25.654  1.00 33.15      A16S
ATOM  19563  C1*  A   A 937     218.891 128.687 -25.788  1.00 33.15      A16S
ATOM  19564  N9   A   A 937     219.323 129.232 -24.502  1.00 51.23      A16S
ATOM  19565  C4   A   A 937     219.384 130.564 -24.203  1.00 51.23      A16S
ATOM  19566  N3   A   A 937     219.014 131.583 -24.989  1.00 51.23      A16S
ATOM  19567  C2   A   A 937     219.272 132.741 -24.396  1.00 51.23      A16S
ATOM  19568  N1   A   A 937     219.804 132.978 -23.194  1.00 51.23      A16S
ATOM  19569  C6   A   A 937     220.152 131.927 -22.427  1.00 51.23      A16S
ATOM  19570  N6   A   A 937     220.671 132.162 -21.224  1.00 51.23      A16S
ATOM  19571  C5   A   A 937     219.943 130.643 -22.947  1.00 51.23      A16S
ATOM  19572  N7   A   A 937     220.203 129.375 -22.443  1.00 51.23      A16S
ATOM  19573  C8   A   A 937     219.804 128.574 -23.395  1.00 51.23      A16S
ATOM  19574  C2*  A   A 937     220.016 128.927 -26.786  1.00 33.15      A16S
ATOM  19575  O2*  A   A 937     219.470 128.990 -28.080  1.00 33.15      A16S
ATOM  19576  C3*  A   A 937     220.879 127.699 -26.547  1.00 33.15      A16S
ATOM  19577  O3*  A   A 937     221.812 127.451 -27.591  1.00 33.15      A16S
ATOM  19578  P    A   A 938     223.392 127.476 -27.252  1.00 43.43      A16S
ATOM  19579  O1P  A   A 938     224.132 126.933 -28.433  1.00 33.15      A16S
ATOM  19580  O2P  A   A 938     223.581 126.833 -25.908  1.00 33.15      A16S
ATOM  19581  O5*  A   A 938     223.733 129.028 -27.095  1.00 43.43      A16S
ATOM  19582  C5*  A   A 938     223.742 129.898 -28.240  1.00 43.43      A16S
ATOM  19583  C4*  A   A 938     224.105 131.304 -27.833  1.00 43.43      A16S
ATOM  19584  O4*  A   A 938     223.127 131.772 -26.882  1.00 43.43      A16S
ATOM  19585  C1*  A   A 938     223.752 132.560 -25.889  1.00 43.43      A16S
ATOM  19586  N9   A   A 938     223.646 131.833 -24.630  1.00 33.15      A16S
ATOM  19587  C4   A   A 938     223.845 132.346 -23.377  1.00 33.15      A16S
ATOM  19588  N3   A   A 938     224.209 133.591 -23.064  1.00 33.15      A16S
ATOM  19589  C2   A   A 938     224.259 133.742 -21.745  1.00 33.15      A16S
ATOM  19590  N1   A   A 938     223.999 132.859 -20.783  1.00 33.15      A16S
ATOM  19591  C6   A   A 938     223.629 131.615 -21.138  1.00 33.15      A16S
ATOM  19592  N6   A   A 938     223.337 130.739 -20.182  1.00 33.15      A16S
ATOM  19593  C5   A   A 938     223.558 131.320 -22.499  1.00 33.15      A16S
ATOM  19594  N7   A   A 938     223.225 130.160 -23.185  1.00 33.15      A16S
ATOM  19595  C8   A   A 938     223.300 130.514 -24.445  1.00 33.15      A16S
ATOM  19596  C2*  A   A 938     225.198 132.748 -26.311  1.00 43.43      A16S
ATOM  19597  O2*  A   A 938     225.284 133.912 -27.111  1.00 43.43      A16S
ATOM  19598  C3*  A   A 938     225.425 131.478 -27.111  1.00 43.43      A16S
ATOM  19599  O3*  A   A 938     226.511 131.604 -27.989  1.00 43.43      A16S
ATOM  19600  P    G   A 939     227.859 130.820 -27.660  1.00 54.19      A16S
ATOM  19601  O1P  G   A 939     228.800 131.216 -28.726  1.00 41.17      A16S
ATOM  19602  O2P  G   A 939     227.504 129.393 -27.477  1.00 41.17      A16S
ATOM  19603  O5*  G   A 939     228.329 131.370 -26.233  1.00 54.19      A16S
ATOM  19604  C5*  G   A 939     228.615 132.769 -26.032  1.00 54.19      A16S
ATOM  19605  C4*  G   A 939     228.901 133.089 -24.563  1.00 54.19      A16S
ATOM  19606  O4*  G   A 939     227.706 132.967 -23.746  1.00 54.19      A16S
ATOM  19607  C1*  G   A 939     228.088 132.771 -22.393  1.00 54.19      A16S
ATOM  19608  N9   G   A 939     227.356 131.640 -21.829  1.00 41.17      A16S
ATOM  19609  C4   G   A 939     226.958 131.509 -20.521  1.00 41.17      A16S
ATOM  19610  N3   G   A 939     227.156 132.409 -19.538  1.00 41.17      A16S
ATOM  19611  C2   G   A 939     226.641 132.008 -18.392  1.00 41.17      A16S
ATOM  19612  N2   G   A 939     226.738 132.795 -17.313  1.00 41.17      A16S
ATOM  19613  N1   G   A 939     225.994 130.810 -18.223  1.00 41.17      A16S
ATOM  19614  C6   G   A 939     225.796 129.866 -19.222  1.00 41.17      A16S
ATOM  19615  O6   G   A 939     225.224 128.812 -18.967  1.00 41.17      A16S
ATOM  19616  C5   G   A 939     226.325 130.292 -20.452  1.00 41.17      A16S
ATOM  19617  N7   G   A 939     226.313 129.673 -21.689  1.00 41.17      A16S
ATOM  19618  C8   G   A 939     226.936 130.508 -22.474  1.00 41.17      A16S
ATOM  19619  C2*  G   A 939     229.608 132.600 -22.337  1.00 54.19      A16S
ATOM  19620  O2*  G   A 939     230.198 133.797 -21.870  1.00 54.19      A16S
ATOM  19621  C3*  G   A 939     229.961 132.304 -23.794  1.00 54.19      A16S
ATOM  19622  O3*  G   A 939     231.285 132.770 -24.044  1.00 54.19      A16S
ATOM  19623  P    C   A 940     232.535 131.801 -23.755  1.00 38.51      A16S
ATOM  19624  O1P  C   A 940     233.714 132.450 -24.381  1.00 72.70      A16S
ATOM  19625  O2P  C   A 940     232.164 130.410 -24.139  1.00 72.70      A16S
ATOM  19626  O5*  C   A 940     232.708 131.801 -22.174  1.00 38.51      A16S
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ATOM  19627  C5* C   A 940     233.348 132.890 -21.531  1.00 38.51      A16S
ATOM  19628  C4* C   A 940     233.179 132.803 -20.037  1.00 38.51      A16S
ATOM  19629  O4* C   A 940     231.779 132.862 -19.672  1.00 38.51      A16S
ATOM  19630  C1* C   A 940     231.595 132.208 -18.432  1.00 38.51      A16S
ATOM  19631  N1  C   A 940     230.615 131.139 -18.596  1.00 72.70      A16S
ATOM  19632  C6  C   A 940     230.383 130.570 -19.815  1.00 72.70      A16S
ATOM  19633  C2  C   A 940     229.938 130.694 -17.471  1.00 72.70      A16S
ATOM  19634  O2  C   A 940     230.151 131.257 -16.379  1.00 72.70      A16S
ATOM  19635  N3  C   A 940     229.072 129.668 -17.592  1.00 72.70      A16S
ATOM  19636  C4  C   A 940     228.869 129.106 -18.781  1.00 72.70      A16S
ATOM  19637  N4  C   A 940     228.020 128.087 -18.851  1.00 72.70      A16S
ATOM  19638  C5  C   A 940     229.528 129.562 -19.949  1.00 72.70      A16S
ATOM  19639  C2* C   A 940     232.935 131.615 -18.009  1.00 38.51      A16S
ATOM  19640  O2* C   A 940     233.544 132.468 -17.066  1.00 38.51      A16S
ATOM  19641  C3* C   A 940     233.683 131.561 -19.333  1.00 38.51      A16S
ATOM  19642  O3* C   A 940     235.070 131.612 -19.109  1.00 38.51      A16S
ATOM  19643  P   G   A 941     235.868 130.250 -18.847  1.00 26.18      A16S
ATOM  19644  O1P G   A 941     237.304 130.622 -18.733  1.00 57.26      A16S
ATOM  19645  O2P G   A 941     235.443 129.248 -19.873  1.00 57.26      A16S
ATOM  19646  O5* G   A 941     235.388 129.764 -17.407  1.00 26.18      A16S
ATOM  19647  C5* G   A 941     235.939 130.369 -16.233  1.00 26.18      A16S
ATOM  19648  C4* G   A 941     235.267 129.852 -14.996  1.00 26.18      A16S
ATOM  19649  O4* G   A 941     233.849 130.112 -15.096  1.00 26.18      A16S
ATOM  19650  C1* G   A 941     233.143 129.114 -14.387  1.00 26.18      A16S
ATOM  19651  N9  G   A 941     232.229 128.428 -15.294  1.00 57.26      A16S
ATOM  19652  C4  G   A 941     231.264 127.533 -14.916  1.00 57.26      A16S
ATOM  19653  N3  G   A 941     230.967 127.191 -13.651  1.00 57.26      A16S
ATOM  19654  C2  G   A 941     230.016 126.292 -13.597  1.00 57.26      A16S
ATOM  19655  N2  G   A 941     229.591 125.860 -12.415  1.00 57.26      A16S
ATOM  19656  N1  G   A 941     229.410 125.750 -14.696  1.00 57.26      A16S
ATOM  19657  C6  G   A 941     229.703 126.076 -16.013  1.00 57.26      A16S
ATOM  19658  O6  G   A 941     229.109 125.503 -16.937  1.00 57.26      A16S
ATOM  19659  C5  G   A 941     230.714 127.068 -16.086  1.00 57.26      A16S
ATOM  19660  N7  G   A 941     231.293 127.691 -17.183  1.00 57.26      A16S
ATOM  19661  C8  G   A 941     232.181 128.496 -16.664  1.00 57.26      A16S
ATOM  19662  C2* G   A 941     234.172 128.128 -13.827  1.00 26.18      A16S
ATOM  19663  O2* G   A 941     234.526 128.417 -12.490  1.00 26.18      A16S
ATOM  19664  C3* G   A 941     235.350 128.361 -14.744  1.00 26.18      A16S
ATOM  19665  O3* G   A 941     236.529 127.947 -14.087  1.00 26.18      A16S
ATOM  19666  P   G   A 942     237.036 126.426 -14.265  1.00 45.56      A16S
ATOM  19667  O1P G   A 942     238.273 126.277 -13.444  1.00 66.35      A16S
ATOM  19668  O2P G   A 942     237.082 126.148 -15.719  1.00 66.35      A16S
ATOM  19669  O5* G   A 942     235.882 125.527 -13.617  1.00 45.56      A16S
ATOM  19670  C5* G   A 942     235.624 125.608 -12.197  1.00 45.56      A16S
ATOM  19671  C4* G   A 942     234.433 124.757 -11.766  1.00 45.56      A16S
ATOM  19672  O4* G   A 942     233.231 125.086 -12.508  1.00 45.56      A16S
ATOM  19673  C1* G   A 942     232.281 124.061 -12.301  1.00 45.56      A16S
ATOM  19674  N9  G   A 942     231.684 123.664 -13.569  1.00 66.35      A16S
ATOM  19675  C4  G   A 942     230.687 122.733 -13.717  1.00 66.35      A16S
ATOM  19676  N3  G   A 942     230.058 122.081 -12.714  1.00 66.35      A16S
ATOM  19677  C2  G   A 942     229.174 121.211 -13.163  1.00 66.35      A16S
ATOM  19678  N2  G   A 942     228.454 120.489 -12.297  1.00 66.35      A16S
ATOM  19679  N1  G   A 942     228.935 120.987 -14.494  1.00 66.35      A16S
ATOM  19680  C6  G   A 942     229.574 121.641 -15.547  1.00 66.35      A16S
ATOM  19681  O6  G   A 942     229.300 121.343 -16.722  1.00 66.35      A16S
ATOM  19682  C5  G   A 942     230.512 122.597 -15.073  1.00 66.35      A16S
ATOM  19683  N7  G   A 942     231.346 123.464 -15.766  1.00 66.35      A16S
ATOM  19684  C8  G   A 942     232.017 124.083 -14.833  1.00 66.35      A16S
ATOM  19685  C2* G   A 942     233.010 122.884 -11.652  1.00 45.56      A16S
ATOM  19686  O2* G   A 942     232.672 122.884 -10.286  1.00 45.56      A16S
ATOM  19687  C3* G   A 942     234.477 123.242 -11.853  1.00 45.56      A16S
ATOM  19688  O3* G   A 942     235.204 122.678 -10.778  1.00 45.56      A16S
ATOM  19689  P   U   A 943     235.556 121.110 -10.791  1.00 31.16      A16S
ATOM  19690  O1P U   A 943     236.473 120.765  -9.659  1.00 52.82      A16S
ATOM  19691  O2P U   A 943     235.955 120.792 -12.185  1.00 52.82      A16S
ATOM  19692  O5* U   A 943     234.175 120.379 -10.493  1.00 31.16      A16S
ATOM  19693  C5* U   A 943     233.608 120.386  -9.170  1.00 31.16      A16S
ATOM  19694  C4* U   A 943     232.417 119.454  -9.095  1.00 31.16      A16S
ATOM  19695  O4* U   A 943     231.370 119.886 -10.004  1.00 31.16      A16S
ATOM  19696  C1* U   A 943     230.751 118.758 -10.583  1.00 31.16      A16S
ATOM  19697  N1  U   A 943     231.025 118.781 -12.030  1.00 52.82      A16S
ATOM  19698  C6  U   A 943     231.751 119.784 -12.592  1.00 52.82      A16S
ATOM  19699  C2  U   A 943     230.534 117.752 -12.806  1.00 52.82      A16S
ATOM  19700  O2  U   A 943     229.898 116.828 -12.354  1.00 52.82      A16S
ATOM  19701  N3  U   A 943     230.829 117.837 -14.134  1.00 52.82      A16S
ATOM  19702  C4  U   A 943     231.556 118.811 -14.751  1.00 52.82      A16S
ATOM  19703  O4  U   A 943     231.803 118.713 -15.947  1.00 52.82      A16S
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ATOM  19704  C5  U   A 943     232.025 119.833 -13.888  1.00 52.82      A16S
ATOM  19705  C2* U   A 943     231.339 117.521  -9.905  1.00 31.16      A16S
ATOM  19706  O2* U   A 943     230.583 117.203  -8.766  1.00 31.16      A16S
ATOM  19707  C3* U   A 943     232.702 118.019  -9.484  1.00 31.16      A16S
ATOM  19708  O3* U   A 943     233.188 117.272  -8.392  1.00 31.16      A16S
ATOM  19709  P   G   A 944     234.077 115.978  -8.676  1.00 38.19      A16S
ATOM  19710  O1P G   A 944     234.178 115.176  -7.419  1.00 42.81      A16S
ATOM  19711  O2P G   A 944     235.313 116.429  -9.367  1.00 42.81      A16S
ATOM  19712  O5* G   A 944     233.207 115.170  -9.732  1.00 38.19      A16S
ATOM  19713  C5* G   A 944     231.999 114.522  -9.333  1.00 38.19      A16S
ATOM  19714  C4* G   A 944     231.575 113.534 -10.377  1.00 38.19      A16S
ATOM  19715  O4* G   A 944     231.018 114.219 -11.519  1.00 38.19      A16S
ATOM  19716  C1* G   A 944     231.419 113.567 -12.708  1.00 38.19      A16S
ATOM  19717  N9  G   A 944     232.209 114.529 -13.473  1.00 42.81      A16S
ATOM  19718  C4  G   A 944     232.425 114.565 -14.834  1.00 42.81      A16S
ATOM  19719  N3  G   A 944     231.967 113.681 -15.737  1.00 42.81      A16S
ATOM  19720  C2  G   A 944     232.312 114.013 -16.970  1.00 42.81      A16S
ATOM  19721  N2  G   A 944     231.942 113.251 -18.005  1.00 42.81      A16S
ATOM  19722  N1  G   A 944     233.043 115.117 -17.288  1.00 42.81      A16S
ATOM  19723  C6  G   A 944     233.524 116.043 -16.380  1.00 42.81      A16S
ATOM  19724  O6  G   A 944     234.166 117.029 -16.783  1.00 42.81      A16S
ATOM  19725  C5  G   A 944     233.169 115.699 -15.053  1.00 42.81      A16S
ATOM  19726  N7  G   A 944     233.443 116.345 -13.860  1.00 42.81      A16S
ATOM  19727  C8  G   A 944     232.863 115.613 -12.954  1.00 42.81      A16S
ATOM  19728  C2* G   A 944     232.181 112.306 -12.287  1.00 38.19      A16S
ATOM  19729  O2* G   A 944     231.273 111.240 -12.111  1.00 38.19      A16S
ATOM  19730  C3* G   A 944     232.710 112.707 -10.928  1.00 38.19      A16S
ATOM  19731  O3* G   A 944     232.947 111.599 -10.094  1.00 38.19      A16S
ATOM  19732  P   G   A 945     234.358 111.480  -9.348  1.00 34.34      A16S
ATOM  19733  O1P G   A 945     234.411 110.170  -8.608  1.00 48.98      A16S
ATOM  19734  O2P G   A 945     234.573 112.755  -8.606  1.00 48.98      A16S
ATOM  19735  O5* G   A 945     235.387 111.443 -10.560  1.00 34.34      A16S
ATOM  19736  C5* G   A 945     235.401 110.344 -11.492  1.00 34.34      A16S
ATOM  19737  C4* G   A 945     236.745 110.264 -12.170  1.00 34.34      A16S
ATOM  19738  O4* G   A 945     236.853 111.318 -13.149  1.00 34.34      A16S
ATOM  19739  C1* G   A 945     238.173 111.831 -13.160  1.00 34.34      A16S
ATOM  19740  N9  G   A 945     238.100 113.265 -12.876  1.00 48.98      A16S
ATOM  19741  C4  G   A 945     239.102 114.076 -12.387  1.00 48.98      A16S
ATOM  19742  N3  G   A 945     240.366 113.698 -12.101  1.00 48.98      A16S
ATOM  19743  C2  G   A 945     241.085 114.701 -11.630  1.00 48.98      A16S
ATOM  19744  N2  G   A 945     242.364 114.501 -11.291  1.00 48.98      A16S
ATOM  19745  N1  G   A 945     240.599 115.975 -11.456  1.00 48.98      A16S
ATOM  19746  C6  G   A 945     239.302 116.384 -11.754  1.00 48.98      A16S
ATOM  19747  O6  G   A 945     238.964 117.555 -11.575  1.00 48.98      A16S
ATOM  19748  C5  G   A 945     238.527 115.322 -12.254  1.00 48.98      A16S
ATOM  19749  N7  G   A 945     237.206 115.305 -12.668  1.00 48.98      A16S
ATOM  19750  C8  G   A 945     236.998 114.071 -13.035  1.00 48.98      A16S
ATOM  19751  C2* G   A 945     238.992 111.005 -12.163  1.00 34.34      A16S
ATOM  19752  O2* G   A 945     239.588 109.912 -12.809  1.00 34.34      A16S
ATOM  19753  C3* G   A 945     237.923 110.475 -11.242  1.00 34.34      A16S
ATOM  19754  O3* G   A 945     238.340 109.269 -10.647  1.00 34.34      A16S
ATOM  19755  P   A   A 946     238.774 109.276  -9.106  1.00 38.49      A16S
ATOM  19756  O1P A   A 946     239.204 107.898  -8.665  1.00 36.30      A16S
ATOM  19757  O2P A   A 946     237.681 109.984  -8.366  1.00 36.30      A16S
ATOM  19758  O5* A   A 946     240.057 110.215  -9.121  1.00 38.49      A16S
ATOM  19759  C5* A   A 946     241.321 109.708  -9.563  1.00 38.49      A16S
ATOM  19760  C4* A   A 946     242.437 110.495  -8.939  1.00 38.49      A16S
ATOM  19761  O4* A   A 946     242.366 111.858  -9.400  1.00 38.49      A16S
ATOM  19762  C1* A   A 946     242.790 112.721  -8.379  1.00 38.49      A16S
ATOM  19763  N9  A   A 946     241.767 113.747  -8.202  1.00 36.30      A16S
ATOM  19764  C4  A   A 946     241.901 114.961  -7.576  1.00 36.30      A16S
ATOM  19765  N3  A   A 946     242.979 115.436  -6.944  1.00 36.30      A16S
ATOM  19766  C2  A   A 946     242.747 116.659  -6.488  1.00 36.30      A16S
ATOM  19767  N1  A   A 946     241.642 117.404  -6.586  1.00 36.30      A16S
ATOM  19768  C6  A   A 946     240.576 116.888  -7.217  1.00 36.30      A16S
ATOM  19769  N6  A   A 946     239.469 117.618  -7.300  1.00 36.30      A16S
ATOM  19770  C5  A   A 946     240.694 115.606  -7.744  1.00 36.30      A16S
ATOM  19771  N7  A   A 946     239.803 114.804  -8.431  1.00 36.30      A16S
ATOM  19772  C8  A   A 946     240.484 113.712  -8.669  1.00 36.30      A16S
ATOM  19773  C2* A   A 946     243.149 111.874  -7.158  1.00 38.49      A16S
ATOM  19774  O2* A   A 946     244.538 111.673  -7.202  1.00 38.49      A16S
ATOM  19775  C3* A   A 946     242.409 110.575  -7.430  1.00 38.49      A16S
ATOM  19776  O3* A   A 946     243.116 109.458  -6.909  1.00 38.49      A16S
ATOM  19777  P   G   A 947     242.685 108.815  -5.500  1.00 31.83      A16S
ATOM  19778  O1P G   A 947     243.461 107.565  -5.310  1.00 44.85      A16S
ATOM  19779  O2P G   A 947     241.199 108.762  -5.444  1.00 44.85      A16S
ATOM  19780  O5* G   A 947     243.206 109.866  -4.421  1.00 31.83      A16S
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ATOM  19781  C5* G   A 947     244.589 109.881  -4.030  1.00 31.83       A16S
ATOM  19782  C4* G   A 947     244.908 111.134  -3.261  1.00 31.83       A16S
ATOM  19783  O4* G   A 947     244.651 112.292  -4.089  1.00 31.83       A16S
ATOM  19784  C1* G   A 947     244.136 113.344  -3.300  1.00 31.83       A16S
ATOM  19785  N9  G   A 947     242.804 113.665  -3.790  1.00 44.85       A16S
ATOM  19786  C4  G   A 947     242.137 114.851  -3.634  1.00 44.85       A16S
ATOM  19787  N3  G   A 947     242.593 115.934  -2.983  1.00 44.85       A16S
ATOM  19788  C2  G   A 947     241.735 116.931  -3.039  1.00 44.85       A16S
ATOM  19789  N2  G   A 947     242.040 118.105  -2.496  1.00 44.85       A16S
ATOM  19790  N1  G   A 947     240.516 116.858  -3.647  1.00 44.85       A16S
ATOM  19791  C6  G   A 947     240.020 115.748  -4.307  1.00 44.85       A16S
ATOM  19792  O6  G   A 947     238.900 115.788  -4.815  1.00 44.85       A16S
ATOM  19793  C5  G   A 947     240.937 114.685  -4.287  1.00 44.85       A16S
ATOM  19794  N7  G   A 947     240.847 113.415  -4.834  1.00 44.85       A16S
ATOM  19795  C8  G   A 947     241.971 112.844  -4.505  1.00 44.85       A16S
ATOM  19796  C2* G   A 947     244.124 112.866  -1.854  1.00 31.83       A16S
ATOM  19797  O2* G   A 947     245.328 113.301  -1.263  1.00 31.83       A16S
ATOM  19798  C3* G   A 947     244.059 111.358  -2.032  1.00 31.83       A16S
ATOM  19799  O3* G   A 947     244.570 110.631  -0.934  1.00 31.83       A16S
ATOM  19800  P   C   A 948     243.548 109.942   0.087  1.00 36.08       A16S
ATOM  19801  O1P C   A 948     244.293 109.133   1.100  1.00 51.43       A16S
ATOM  19802  O2P C   A 948     242.513 109.281  -0.749  1.00 51.43       A16S
ATOM  19803  O5* C   A 948     242.901 111.197   0.824  1.00 36.08       A16S
ATOM  19804  C5* C   A 948     243.700 112.006   1.687  1.00 36.08       A16S
ATOM  19805  C4* C   A 948     243.127 113.397   1.814  1.00 36.08       A16S
ATOM  19806  O4* C   A 948     242.829 113.943   0.506  1.00 36.08       A16S
ATOM  19807  C1* C   A 948     241.766 114.876   0.614  1.00 36.08       A16S
ATOM  19808  N1  C   A 948     240.667 114.476  -0.286  1.00 51.43       A16S
ATOM  19809  C6  C   A 948     240.588 113.210  -0.794  1.00 51.43       A16S
ATOM  19810  C2  C   A 948     239.687 115.423  -0.602  1.00 51.43       A16S
ATOM  19811  O2  C   A 948     239.774 116.566  -0.127  1.00 51.43       A16S
ATOM  19812  N3  C   A 948     238.667 115.072  -1.404  1.00 51.43       A16S
ATOM  19813  C4  C   A 948     238.588 113.833  -1.880  1.00 51.43       A16S
ATOM  19814  N4  C   A 948     237.535 113.529  -2.654  1.00 51.43       A16S
ATOM  19815  C5  C   A 948     239.575 112.848  -1.584  1.00 51.43       A16S
ATOM  19816  C2* C   A 948     241.321 114.900   2.075  1.00 36.08       A16S
ATOM  19817  O2* C   A 948     241.933 115.992   2.730  1.00 36.08       A16S
ATOM  19818  C3* C   A 948     241.828 113.559   2.573  1.00 36.08       A16S
ATOM  19819  O3* C   A 948     242.050 113.601   3.958  1.00 36.08       A16S
ATOM  19820  P   A   A 949     240.939 113.009   4.941  1.00 41.26       A16S
ATOM  19821  O1P A   A 949     241.587 112.771   6.253  1.00 58.97       A16S
ATOM  19822  O2P A   A 949     240.275 111.874   4.240  1.00 58.97       A16S
ATOM  19823  O5* A   A 949     239.914 114.220   5.093  1.00 41.26       A16S
ATOM  19824  C5* A   A 949     240.355 115.467   5.639  1.00 41.26       A16S
ATOM  19825  C4* A   A 949     239.254 116.499   5.581  1.00 41.26       A16S
ATOM  19826  O4* A   A 949     239.049 116.960   4.225  1.00 41.26       A16S
ATOM  19827  C1* A   A 949     237.679 117.252   4.026  1.00 41.26       A16S
ATOM  19828  N9  A   A 949     237.175 116.332   3.012  1.00 58.97       A16S
ATOM  19829  C4  A   A 949     235.974 116.412   2.352  1.00 58.97       A16S
ATOM  19830  N3  A   A 949     235.028 117.356   2.488  1.00 58.97       A16S
ATOM  19831  C2  A   A 949     234.004 117.102   1.692  1.00 58.97       A16S
ATOM  19832  N1  A   A 949     233.828 116.090   0.840  1.00 58.97       A16S
ATOM  19833  C6  A   A 949     234.799 115.161   0.730  1.00 58.97       A16S
ATOM  19834  N6  A   A 949     234.625 114.140  -0.112  1.00 58.97       A16S
ATOM  19835  C5  A   A 949     235.936 115.319   1.515  1.00 58.97       A16S
ATOM  19836  N7  A   A 949     237.093 114.567   1.634  1.00 58.97       A16S
ATOM  19837  C8  A   A 949     237.791 115.207   2.532  1.00 58.97       A16S
ATOM  19838  C2* A   A 949     236.967 117.057   5.362  1.00 41.26       A16S
ATOM  19839  O2* A   A 949     236.908 118.298   6.039  1.00 41.26       A16S
ATOM  19840  C3* A   A 949     237.883 116.056   6.049  1.00 41.26       A16S
ATOM  19841  O3* A   A 949     237.778 116.118   7.455  1.00 41.26       A16S
ATOM  19842  P   U   A 950     236.976 114.972   8.229  1.00 52.49       A16S
ATOM  19843  O1P U   A 950     237.124 115.261   9.676  1.00 52.82       A16S
ATOM  19844  O2P U   A 950     237.419 113.654   7.697  1.00 52.82       A16S
ATOM  19845  O5* U   A 950     235.466 115.250   7.804  1.00 52.49       A16S
ATOM  19846  C5* U   A 950     234.823 116.464   8.212  1.00 52.49       A16S
ATOM  19847  C4* U   A 950     233.534 116.683   7.456  1.00 52.49       A16S
ATOM  19848  O4* U   A 950     233.820 116.776   6.038  1.00 52.49       A16S
ATOM  19849  C1* U   A 950     232.706 116.299   5.294  1.00 52.49       A16S
ATOM  19850  N1  U   A 950     233.119 115.139   4.472  1.00 52.82       A16S
ATOM  19851  C6  U   A 950     234.254 114.415   4.744  1.00 52.82       A16S
ATOM  19852  C2  U   A 950     232.311 114.792   3.401  1.00 52.82       A16S
ATOM  19853  O2  U   A 950     231.285 115.387   3.125  1.00 52.82       A16S
ATOM  19854  N3  U   A 950     232.739 113.719   2.666  1.00 52.82       A16S
ATOM  19855  C4  U   A 950     233.858 112.961   2.878  1.00 52.82       A16S
ATOM  19856  O4  U   A 950     234.120 112.031   2.101  1.00 52.82       A16S
ATOM  19857  C5  U   A 950     234.639 113.366   4.006  1.00 52.82       A16S
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ATOM  19858  C2* U   A 950     231.619 115.940   6.305  1.00 52.49      A16S
ATOM  19859  O2* U   A 950     230.791 117.066   6.547  1.00 52.49      A16S
ATOM  19860  C3* U   A 950     232.454 115.617   7.527  1.00 52.49      A16S
ATOM  19861  O3* U   A 950     231.650 115.632   8.688  1.00 52.49      A16S
ATOM  19862  P   G   A 951     231.011 114.249   9.193  1.00 46.17      A16S
ATOM  19863  O1P G   A 951     230.577 114.387  10.599  1.00 50.80      A16S
ATOM  19864  O2P G   A 951     231.954 113.163   8.833  1.00 50.80      A16S
ATOM  19865  O5* G   A 951     229.717 114.090   8.284  1.00 46.17      A16S
ATOM  19866  C5* G   A 951     228.572 114.910   8.519  1.00 46.17      A16S
ATOM  19867  C4* G   A 951     227.462 114.550   7.573  1.00 46.17      A16S
ATOM  19868  O4* G   A 951     227.866 114.894   6.221  1.00 46.17      A16S
ATOM  19869  C1* G   A 951     227.314 113.960   5.309  1.00 46.17      A16S
ATOM  19870  N9  G   A 951     228.399 113.187   4.694  1.00 50.80      A16S
ATOM  19871  C4  G   A 951     228.340 112.526   3.484  1.00 50.80      A16S
ATOM  19872  N3  G   A 951     227.300 112.533   2.630  1.00 50.80      A16S
ATOM  19873  C2  G   A 951     227.513 111.764   1.584  1.00 50.80      A16S
ATOM  19874  N2  G   A 951     226.576 111.652   0.652  1.00 50.80      A16S
ATOM  19875  N1  G   A 951     228.653 111.048   1.376  1.00 50.80      A16S
ATOM  19876  C6  G   A 951     229.743 111.025   2.226  1.00 50.80      A16S
ATOM  19877  O6  G   A 951     230.723 110.344   1.930  1.00 50.80      A16S
ATOM  19878  C5  G   A 951     229.532 111.849   3.374  1.00 50.80      A16S
ATOM  19879  N7  G   A 951     230.349 112.108   4.471  1.00 50.80      A16S
ATOM  19880  C8  G   A 951     229.643 112.914   5.219  1.00 50.80      A16S
ATOM  19881  C2* G   A 951     226.415 113.024   6.124  1.00 46.17      A16S
ATOM  19882  O2* G   A 951     225.082 113.504   6.192  1.00 46.17      A16S
ATOM  19883  C3* G   A 951     227.082 113.081   7.485  1.00 46.17      A16S
ATOM  19884  O3* G   A 951     226.203 112.622   8.498  1.00 46.17      A16S
ATOM  19885  P   U   A 952     226.076 111.036   8.778  1.00 41.69      A16S
ATOM  19886  O1P U   A 952     225.050 110.882   9.850  1.00 52.38      A16S
ATOM  19887  O2P U   A 952     227.427 110.440   8.974  1.00 52.38      A16S
ATOM  19888  O5* U   A 952     225.469 110.445   7.424  1.00 41.69      A16S
ATOM  19889  C5* U   A 952     224.168 110.856   6.969  1.00 41.69      A16S
ATOM  19890  C4* U   A 952     223.849 110.259   5.620  1.00 41.69      A16S
ATOM  19891  O4* U   A 952     224.814 110.722   4.646  1.00 41.69      A16S
ATOM  19892  C1* U   A 952     224.987 109.733   3.642  1.00 41.69      A16S
ATOM  19893  N1  U   A 952     226.380 109.257   3.648  1.00 52.38      A16S
ATOM  19894  C6  U   A 952     227.222 109.445   4.716  1.00 52.38      A16S
ATOM  19895  C2  U   A 952     226.804 108.568   2.536  1.00 52.38      A16S
ATOM  19896  O2  U   A 952     226.097 108.418   1.550  1.00 52.38      A16S
ATOM  19897  N3  U   A 952     228.076 108.062   2.617  1.00 52.38      A16S
ATOM  19898  C4  U   A 952     228.945 108.179   3.665  1.00 52.38      A16S
ATOM  19899  O4  U   A 952     230.002 107.569   3.635  1.00 52.38      A16S
ATOM  19900  C5  U   A 952     228.457 108.941   4.759  1.00 52.38      A16S
ATOM  19901  C2* U   A 952     224.064 108.567   3.982  1.00 41.69      A16S
ATOM  19902  O2* U   A 952     222.852 108.669   3.254  1.00 41.69      A16S
ATOM  19903  C3* U   A 952     223.894 108.748   5.480  1.00 41.69      A16S
ATOM  19904  O3* U   A 952     222.736 108.078   5.925  1.00 41.69      A16S
ATOM  19905  P   G   A 953     222.848 106.529   6.331  1.00 49.32      A16S
ATOM  19906  O1P G   A 953     221.600 106.139   7.017  1.00 43.98      A16S
ATOM  19907  O2P G   A 953     224.150 106.359   7.018  1.00 43.98      A16S
ATOM  19908  O5* G   A 953     222.926 105.728   4.954  1.00 49.32      A16S
ATOM  19909  C5* G   A 953     221.788 105.647   4.070  1.00 49.32      A16S
ATOM  19910  C4* G   A 953     222.082 104.729   2.904  1.00 49.32      A16S
ATOM  19911  O4* G   A 953     223.214 105.248   2.148  1.00 49.32      A16S
ATOM  19912  C1* G   A 953     224.012 104.175   1.674  1.00 49.32      A16S
ATOM  19913  N9  G   A 953     225.345 104.281   2.281  1.00 43.98      A16S
ATOM  19914  C4  G   A 953     226.500 103.614   1.893  1.00 43.98      A16S
ATOM  19915  N3  G   A 953     226.631 102.791   0.832  1.00 43.98      A16S
ATOM  19916  C2  G   A 953     227.849 102.275   0.753  1.00 43.98      A16S
ATOM  19917  N2  G   A 953     228.163 101.447  -0.251  1.00 43.98      A16S
ATOM  19918  N1  G   A 953     228.848 102.532   1.646  1.00 43.98      A16S
ATOM  19919  C6  G   A 953     228.741 103.367   2.740  1.00 43.98      A16S
ATOM  19920  O6  G   A 953     229.700 103.504   3.486  1.00 43.98      A16S
ATOM  19921  C5  G   A 953     227.449 103.951   2.831  1.00 43.98      A16S
ATOM  19922  N7  G   A 953     226.931 104.848   3.754  1.00 43.98      A16S
ATOM  19923  C8  G   A 953     225.689 105.023   3.385  1.00 43.98      A16S
ATOM  19924  C2* G   A 953     223.294 102.875   2.062  1.00 49.32      A16S
ATOM  19925  O2* G   A 953     222.463 102.417   1.011  1.00 49.32      A16S
ATOM  19926  C3* G   A 953     222.482 103.311   3.274  1.00 49.32      A16S
ATOM  19927  O3* G   A 953     221.356 102.463   3.504  1.00 49.32      A16S
ATOM  19928  P   G   A 954     221.438 101.307   4.632  1.00 63.49      A16S
ATOM  19929  O1P G   A 954     220.195 100.487   4.579  1.00 53.98      A16S
ATOM  19930  O2P G   A 954     221.843 101.941   5.913  1.00 53.98      A16S
ATOM  19931  O5* G   A 954     222.621 100.370   4.138  1.00 63.49      A16S
ATOM  19932  C5* G   A 954     222.551  99.733   2.858  1.00 63.49      A16S
ATOM  19933  C4* G   A 954     223.898  99.186   2.480  1.00 63.49      A16S
ATOM  19934  O4* G   A 954     224.839 100.279   2.385  1.00 63.49      A16S
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ATOM  19935  C1* G   A 954     226.121  99.835   2.783  1.00 63.49      A16S
ATOM  19936  N9  G   A 954     226.612 100.683   3.862  1.00 53.98      A16S
ATOM  19937  C4  G   A 954     227.899 100.697   4.326  1.00 53.98      A16S
ATOM  19938  N3  G   A 954     228.916  99.951   3.849  1.00 53.98      A16S
ATOM  19939  C2  G   A 954     230.034 100.164   4.513  1.00 53.98      A16S
ATOM  19940  N2  G   A 954     231.141  99.514   4.166  1.00 53.98      A16S
ATOM  19941  N1  G   A 954     230.151 101.032   5.566  1.00 53.98      A16S
ATOM  19942  C6  G   A 954     229.119 101.808   6.080  1.00 53.98      A16S
ATOM  19943  O6  G   A 954     229.330 102.550   7.050  1.00 53.98      A16S
ATOM  19944  C5  G   A 954     227.905 101.600   5.364  1.00 53.98      A16S
ATOM  19945  N7  G   A 954     226.647 102.162   5.533  1.00 53.98      A16S
ATOM  19946  C8  G   A 954     225.914 101.591   4.618  1.00 53.98      A16S
ATOM  19947  C2* G   A 954     226.008  98.369   3.198  1.00 63.49      A16S
ATOM  19948  O2* G   A 954     226.431  97.548   2.132  1.00 63.49      A16S
ATOM  19949  C3* G   A 954     224.522  98.247   3.493  1.00 63.49      A16S
ATOM  19950  O3* G   A 954     224.053  96.925   3.334  1.00 63.49      A16S
ATOM  19951  P   U   A 955     223.865  96.002   4.629  1.00 55.30      A16S
ATOM  19952  O1P U   A 955     223.195  94.744   4.203  1.00 53.44      A16S
ATOM  19953  O2P U   A 955     223.252  96.837   5.699  1.00 53.44      A16S
ATOM  19954  O5* U   A 955     225.358  95.651   5.060  1.00 55.30      A16S
ATOM  19955  C5* U   A 955     226.228  94.925   4.180  1.00 55.30      A16S
ATOM  19956  C4* U   A 955     227.662  95.084   4.616  1.00 55.30      A16S
ATOM  19957  O4* U   A 955     228.028  96.485   4.562  1.00 55.30      A16S
ATOM  19958  C1* U   A 955     228.932  96.784   5.611  1.00 55.30      A16S
ATOM  19959  N1  U   A 955     228.343  97.835   6.457  1.00 53.44      A16S
ATOM  19960  C6  U   A 955     227.072  98.288   6.238  1.00 53.44      A16S
ATOM  19961  C2  U   A 955     229.107  98.355   7.485  1.00 53.44      A16S
ATOM  19962  O2  U   A 955     230.239  97.986   7.721  1.00 53.44      A16S
ATOM  19963  N3  U   A 955     228.493  99.326   8.230  1.00 53.44      A16S
ATOM  19964  C4  U   A 955     227.223  99.820   8.058  1.00 53.44      A16S
ATOM  19965  O4  U   A 955     226.808 100.715   8.796  1.00 53.44      A16S
ATOM  19966  C5  U   A 955     226.504  99.234   6.981  1.00 53.44      A16S
ATOM  19967  C2* U   A 955     229.207  95.483   6.364  1.00 55.30      A16S
ATOM  19968  O2* U   A 955     230.355  94.878   5.818  1.00 55.30      A16S
ATOM  19969  C3* U   A 955     227.971  94.666   6.041  1.00 55.30      A16S
ATOM  19970  O3* U   A 955     228.246  93.279   6.135  1.00 55.30      A16S
ATOM  19971  P   U   A 956     227.943  92.505   7.510  1.00 72.31      A16S
ATOM  19972  O1P U   A 956     228.287  91.064   7.323  1.00 65.17      A16S
ATOM  19973  O2P U   A 956     226.560  92.880   7.925  1.00 65.17      A16S
ATOM  19974  O5* U   A 956     228.996  93.135   8.532  1.00 72.31      A16S
ATOM  19975  C5* U   A 956     230.400  92.878   8.366  1.00 72.31      A16S
ATOM  19976  C4* U   A 956     231.226  93.700   9.329  1.00 72.31      A16S
ATOM  19977  O4* U   A 956     231.021  95.111   9.088  1.00 72.31      A16S
ATOM  19978  C1* U   A 956     231.165  95.827  10.298  1.00 72.31      A16S
ATOM  19979  N1  U   A 956     229.908  96.535  10.568  1.00 65.17      A16S
ATOM  19980  C6  U   A 956     228.719  96.088  10.048  1.00 65.17      A16S
ATOM  19981  C2  U   A 956     229.957  97.663  11.368  1.00 65.17      A16S
ATOM  19982  O2  U   A 956     230.992  98.108  11.837  1.00 65.17      A16S
ATOM  19983  N3  U   A 956     228.746  98.258  11.596  1.00 65.17      A16S
ATOM  19984  C4  U   A 956     227.523  97.861  11.107  1.00 65.17      A16S
ATOM  19985  O4  U   A 956     226.517  98.511  11.394  1.00 65.17      A16S
ATOM  19986  C5  U   A 956     227.560  96.696  10.281  1.00 65.17      A16S
ATOM  19987  C2* U   A 956     231.515  94.820  11.390  1.00 72.31      A16S
ATOM  19988  O2* U   A 956     232.921  94.784  11.511  1.00 72.31      A16S
ATOM  19989  C3* U   A 956     230.955  93.530  10.809  1.00 72.31      A16S
ATOM  19990  O3* U   A 956     231.624  92.391  11.319  1.00 72.31      A16S
ATOM  19991  P   U   A 957     230.977  91.583  12.541  1.00 52.20      A16S
ATOM  19992  O1P U   A 957     231.821  90.389  12.789  1.00 74.27      A16S
ATOM  19993  O2P U   A 957     229.522  91.418  12.287  1.00 74.27      A16S
ATOM  19994  O5* U   A 957     231.158  92.573  13.768  1.00 52.20      A16S
ATOM  19995  C5* U   A 957     232.466  92.925  14.228  1.00 52.20      A16S
ATOM  19996  C4* U   A 957     232.382  94.083  15.188  1.00 52.20      A16S
ATOM  19997  O4* U   A 957     231.781  95.229  14.527  1.00 52.20      A16S
ATOM  19998  C1* U   A 957     231.028  95.973  15.463  1.00 52.20      A16S
ATOM  19999  N1  U   A 957     229.632  96.018  15.017  1.00 74.27      A16S
ATOM  20000  C6  U   A 957     229.079  95.001  14.281  1.00 74.27      A16S
ATOM  20001  C2  U   A 957     228.885  97.117  15.384  1.00 74.27      A16S
ATOM  20002  O2  U   A 957     229.348  98.053  16.011  1.00 74.27      A16S
ATOM  20003  N3  U   A 957     227.576  97.082  14.989  1.00 74.27      A16S
ATOM  20004  C4  U   A 957     226.953  96.086  14.276  1.00 74.27      A16S
ATOM  20005  O4  U   A 957     225.739  96.155  14.081  1.00 74.27      A16S
ATOM  20006  C5  U   A 957     227.801  94.997  13.908  1.00 74.27      A16S
ATOM  20007  C2* U   A 957     231.163  95.292  16.823  1.00 52.20      A16S
ATOM  20008  O2* U   A 957     232.188  95.963  17.531  1.00 52.20      A16S
ATOM  20009  C3* U   A 957     231.522  93.864  16.420  1.00 52.20      A16S
ATOM  20010  O3* U   A 957     232.255  93.171  17.419  1.00 52.20      A16S
ATOM  20011  P   A   A 958     231.542  92.020  18.274  1.00 82.19      A16S
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ATOM  20012  O1P A   A 958     232.519  91.613  19.316  1.00 80.74      A16S
ATOM  20013  O2P A   A 958     230.987  90.996  17.347  1.00 80.74      A16S
ATOM  20014  O5* A   A 958     230.341  92.789  18.981  1.00 82.19      A16S
ATOM  20015  C5* A   A 958     229.411  92.108  19.847  1.00 82.19      A16S
ATOM  20016  C4* A   A 958     228.923  93.055  20.914  1.00 82.19      A16S
ATOM  20017  O4* A   A 958     229.958  93.254  21.899  1.00 82.19      A16S
ATOM  20018  C1* A   A 958     229.929  94.592  22.353  1.00 82.19      A16S
ATOM  20019  N9  A   A 958     231.294  95.117  22.329  1.00 80.74      A16S
ATOM  20020  C4  A   A 958     231.720  96.322  22.825  1.00 80.74      A16S
ATOM  20021  N3  A   A 958     230.970  97.279  23.380  1.00 80.74      A16S
ATOM  20022  C2  A   A 958     231.729  98.295  23.775  1.00 80.74      A16S
ATOM  20023  N1  A   A 958     233.054  98.454  23.681  1.00 80.74      A16S
ATOM  20024  C6  A   A 958     233.779  97.475  23.110  1.00 80.74      A16S
ATOM  20025  N6  A   A 958     235.098  97.638  23.009  1.00 80.74      A16S
ATOM  20026  C5  A   A 958     233.091  96.339  22.653  1.00 80.74      A16S
ATOM  20027  N7  A   A 958     233.520  95.177  22.035  1.00 80.74      A16S
ATOM  20028  C8  A   A 958     232.418  94.493  21.854  1.00 80.74      A16S
ATOM  20029  C2* A   A 958     228.852  95.360  21.580  1.00 82.19      A16S
ATOM  20030  O2* A   A 958     227.732  95.552  22.419  1.00 82.19      A16S
ATOM  20031  C3* A   A 958     228.592  94.439  20.385  1.00 82.19      A16S
ATOM  20032  O3* A   A 958     227.237  94.439  19.944  1.00 82.19      A16S
ATOM  20033  P   A   A 959     226.879  94.895  18.445  1.00 50.67      A16S
ATOM  20034  O1P A   A 959     225.525  94.353  18.134  1.00 76.99      A16S
ATOM  20035  O2P A   A 959     228.024  94.564  17.552  1.00 76.99      A16S
ATOM  20036  O5* A   A 959     226.758  96.478  18.576  1.00 50.67      A16S
ATOM  20037  C5* A   A 959     225.770  97.054  19.449  1.00 50.67      A16S
ATOM  20038  C4* A   A 959     226.153  98.457  19.841  1.00 50.67      A16S
ATOM  20039  O4* A   A 959     227.352  98.434  20.643  1.00 50.67      A16S
ATOM  20040  C1* A   A 959     228.109  99.598  20.387  1.00 50.67      A16S
ATOM  20041  N9  A   A 959     229.472  99.194  20.054  1.00 76.99      A16S
ATOM  20042  C4  A   A 959     230.615  99.671  20.646  1.00 76.99      A16S
ATOM  20043  N3  A   A 959     230.707 100.600  21.611  1.00 76.99      A16S
ATOM  20044  C2  A   A 959     231.971 100.791  21.955  1.00 76.99      A16S
ATOM  20045  N1  A   A 959     233.076 100.207  21.482  1.00 76.99      A16S
ATOM  20046  C6  A   A 959     232.948  99.274  20.516  1.00 76.99      A16S
ATOM  20047  N6  A   A 959     234.046  98.671  20.056  1.00 76.99      A16S
ATOM  20048  C5  A   A 959     231.657  98.984  20.058  1.00 76.99      A16S
ATOM  20049  N7  A   A 959     231.185  98.103  19.097  1.00 76.99      A16S
ATOM  20050  C8  A   A 959     229.887  98.268  19.131  1.00 76.99      A16S
ATOM  20051  C2* A   A 959     227.392 100.422  19.317  1.00 50.67      A16S
ATOM  20052  O2* A   A 959     226.740 101.505  19.946  1.00 50.67      A16S
ATOM  20053  C3* A   A 959     226.459  99.387  18.686  1.00 50.67      A16S
ATOM  20054  O3* A   A 959     225.245  99.957  18.199  1.00 50.67      A16S
ATOM  20055  P   U   A 960     224.560  99.385  16.854  1.00 68.85      A16S
ATOM  20056  O1P U   A 960     223.184  99.930  16.852  1.00 60.67      A16S
ATOM  20057  O2P U   A 960     224.767  97.915  16.743  1.00 60.67      A16S
ATOM  20058  O5* U   A 960     225.341 100.116  15.671  1.00 68.85      A16S
ATOM  20059  C5* U   A 960     226.766 100.283  15.723  1.00 68.85      A16S
ATOM  20060  C4* U   A 960     227.113 101.678  16.190  1.00 68.85      A16S
ATOM  20061  O4* U   A 960     228.452 101.660  16.730  1.00 68.85      A16S
ATOM  20062  C1* U   A 960     229.352 102.283  15.840  1.00 68.85      A16S
ATOM  20063  N1  U   A 960     230.335 101.249  15.459  1.00 60.67      A16S
ATOM  20064  C6  U   A 960     231.527 101.126  16.134  1.00 60.67      A16S
ATOM  20065  C2  U   A 960     230.025 100.382  14.421  1.00 60.67      A16S
ATOM  20066  O2  U   A 960     228.991 100.450  13.788  1.00 60.67      A16S
ATOM  20067  N3  U   A 960     230.973  99.425  14.156  1.00 60.67      A16S
ATOM  20068  C4  U   A 960     232.167  99.234  14.804  1.00 60.67      A16S
ATOM  20069  O4  U   A 960     232.857  98.252  14.519  1.00 60.67      A16S
ATOM  20070  C5  U   A 960     232.428 100.173  15.851  1.00 60.67      A16S
ATOM  20071  C2* U   A 960     228.554 102.882  14.675  1.00 68.85      A16S
ATOM  20072  O2* U   A 960     228.952 104.188  14.322  1.00 68.85      A16S
ATOM  20073  C3* U   A 960     227.100 102.774  15.139  1.00 68.85      A16S
ATOM  20074  O3* U   A 960     226.389 103.980  15.528  1.00 68.85      A16S
ATOM  20075  P   U   A 961     226.775 104.823  16.857  1.00 67.68      A16S
ATOM  20076  O1P U   A 961     227.151 106.185  16.406  1.00 42.50      A16S
ATOM  20077  O2P U   A 961     227.672 104.078  17.804  1.00 42.50      A16S
ATOM  20078  O5* U   A 961     225.362 104.986  17.576  1.00 67.68      A16S
ATOM  20079  C5* U   A 961     224.745 103.869  18.241  1.00 67.68      A16S
ATOM  20080  C4* U   A 961     223.446 104.291  18.866  1.00 67.68      A16S
ATOM  20081  O4* U   A 961     223.677 105.466  19.687  1.00 67.68      A16S
ATOM  20082  C1* U   A 961     222.532 106.301  19.663  1.00 67.68      A16S
ATOM  20083  N1  U   A 961     222.897 107.621  19.127  1.00 42.50      A16S
ATOM  20084  C6  U   A 961     224.103 107.847  18.518  1.00 42.50      A16S
ATOM  20085  C2  U   A 961     221.954 108.645  19.244  1.00 42.50      A16S
ATOM  20086  O2  U   A 961     220.859 108.495  19.772  1.00 42.50      A16S
ATOM  20087  N3  U   A 961     222.333 109.849  18.707  1.00 42.50      A16S
ATOM  20088  C4  U   A 961     223.514 110.133  18.073  1.00 42.50      A16S
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ATOM  20089  O4  U   A 961     223.685 111.257  17.600  1.00 42.50      A16S
ATOM  20090  C5  U   A 961     224.434 109.033  17.996  1.00 42.50      A16S
ATOM  20091  C2* U   A 961     221.495 105.632  18.769  1.00 67.68      A16S
ATOM  20092  O2* U   A 961     220.563 104.910  19.553  1.00 67.68      A16S
ATOM  20093  C3* U   A 961     222.369 104.743  17.901  1.00 67.68      A16S
ATOM  20094  O3* U   A 961     221.626 103.668  17.369  1.00 67.68      A16S
ATOM  20095  P   C   A 962     220.871 103.853  15.959  1.00 55.94      A16S
ATOM  20096  O1P C   A 962     219.973 102.666  15.844  1.00 65.29      A16S
ATOM  20097  O2P C   A 962     221.901 104.100  14.906  1.00 65.29      A16S
ATOM  20098  O5* C   A 962     219.999 105.187  16.128  1.00 55.94      A16S
ATOM  20099  C5* C   A 962     218.937 105.244  17.086  1.00 55.94      A16S
ATOM  20100  C4* C   A 962     218.224 106.574  17.040  1.00 55.94      A16S
ATOM  20101  O4* C   A 962     219.075 107.661  17.490  1.00 55.94      A16S
ATOM  20102  C1* C   A 962     218.612 108.885  16.925  1.00 55.94      A16S
ATOM  20103  N1  C   A 962     219.685 109.520  16.138  1.00 65.29      A16S
ATOM  20104  C6  C   A 962     220.836 108.850  15.819  1.00 65.29      A16S
ATOM  20105  C2  C   A 962     219.488 110.845  15.689  1.00 65.29      A16S
ATOM  20106  O2  C   A 962     218.437 111.435  15.990  1.00 65.29      A16S
ATOM  20107  N3  C   A 962     220.438 111.434  14.938  1.00 65.29      A16S
ATOM  20108  C4  C   A 962     221.545 110.766  14.622  1.00 65.29      A16S
ATOM  20109  N4  C   A 962     222.440 111.385  13.867  1.00 65.29      A16S
ATOM  20110  C5  C   A 962     221.780 109.427  15.067  1.00 65.29      A16S
ATOM  20111  C2* C   A 962     217.464 108.548  15.979  1.00 55.94      A16S
ATOM  20112  O2* C   A 962     216.221 108.842  16.593  1.00 55.94      A16S
ATOM  20113  C3* C   A 962     217.724 107.071  15.703  1.00 55.94      A16S
ATOM  20114  O3* C   A 962     216.572 106.418  15.238  1.00 55.94      A16S
ATOM  20115  P   G   A 963     216.339 106.302  13.660  1.00 57.41      A16S
ATOM  20116  O1P G   A 963     215.250 105.317  13.485  1.00 42.21      A16S
ATOM  20117  O2P G   A 963     217.652 106.062  13.014  1.00 42.21      A16S
ATOM  20118  O5* G   A 963     215.849 107.753  13.227  1.00 57.41      A16S
ATOM  20119  C5* G   A 963     214.628 108.284  13.732  1.00 57.41      A16S
ATOM  20120  C4* G   A 963     214.549 109.762  13.468  1.00 57.41      A16S
ATOM  20121  O4* G   A 963     215.729 110.388  14.027  1.00 57.41      A16S
ATOM  20122  C1* G   A 963     216.083 111.518  13.252  1.00 57.41      A16S
ATOM  20123  N9  G   A 963     217.416 111.313  12.694  1.00 42.21      A16S
ATOM  20124  C4  G   A 963     218.111 112.221  11.939  1.00 42.21      A16S
ATOM  20125  N3  G   A 963     217.709 113.466  11.648  1.00 42.21      A16S
ATOM  20126  C2  G   A 963     218.557 114.082  10.866  1.00 42.21      A16S
ATOM  20127  N2  G   A 963     218.313 115.326  10.495  1.00 42.21      A16S
ATOM  20128  N1  G   A 963     219.710 113.525  10.390  1.00 42.21      A16S
ATOM  20129  C6  G   A 963     220.151 112.241  10.670  1.00 42.21      A16S
ATOM  20130  O6  G   A 963     221.205 111.827  10.170  1.00 42.21      A16S
ATOM  20131  C5  G   A 963     219.252 111.566  11.533  1.00 42.21      A16S
ATOM  20132  N7  G   A 963     219.303 110.286  12.069  1.00 42.21      A16S
ATOM  20133  C8  G   A 963     218.198 110.182  12.759  1.00 42.21      A16S
ATOM  20134  C2* G   A 963     215.054 111.645  12.127  1.00 57.41      A16S
ATOM  20135  O2* G   A 963     214.051 112.561  12.513  1.00 57.41      A16S
ATOM  20136  C3* G   A 963     214.534 110.218  12.016  1.00 57.41      A16S
ATOM  20137  O3* G   A 963     213.226 110.188  11.438  1.00 57.41      A16S
ATOM  20138  P   A   A 964     213.055 110.018   9.840  1.00 46.89      A16S
ATOM  20139  O1P A   A 964     211.615 110.217   9.522  1.00 40.82      A16S
ATOM  20140  O2P A   A 964     213.734 108.753   9.423  1.00 40.82      A16S
ATOM  20141  O5* A   A 964     213.822 111.271   9.236  1.00 46.89      A16S
ATOM  20142  C5* A   A 964     213.321 112.590   9.447  1.00 46.89      A16S
ATOM  20143  C4* A   A 964     214.099 113.572   8.616  1.00 46.89      A16S
ATOM  20144  O4* A   A 964     215.467 113.578   9.082  1.00 46.89      A16S
ATOM  20145  C1* A   A 964     216.352 113.657   7.981  1.00 46.89      A16S
ATOM  20146  N9  A   A 964     217.161 112.437   7.982  1.00 40.82      A16S
ATOM  20147  C4  A   A 964     218.265 112.194   7.209  1.00 40.82      A16S
ATOM  20148  N3  A   A 964     218.800 113.004   6.279  1.00 40.82      A16S
ATOM  20149  C2  A   A 964     219.881 112.444   5.746  1.00 40.82      A16S
ATOM  20150  N1  A   A 964     220.447 111.253   6.023  1.00 40.82      A16S
ATOM  20151  C6  A   A 964     219.880 110.468   6.967  1.00 40.82      A16S
ATOM  20152  N6  A   A 964     220.449 109.297   7.255  1.00 40.82      A16S
ATOM  20153  C5  A   A 964     218.726 110.942   7.594  1.00 40.82      A16S
ATOM  20154  N7  A   A 964     217.910 110.395   8.568  1.00 40.82      A16S
ATOM  20155  C8  A   A 964     216.998 111.314   8.762  1.00 40.82      A16S
ATOM  20156  C2* A   A 964     215.509 113.858   6.723  1.00 46.89      A16S
ATOM  20157  O2* A   A 964     215.421 115.247   6.482  1.00 46.89      A16S
ATOM  20158  C3* A   A 964     214.184 113.224   7.141  1.00 46.89      A16S
ATOM  20159  O3* A   A 964     213.035 113.687   6.428  1.00 46.89      A16S
ATOM  20160  P   A   A 965     212.171 112.638   5.557  1.00 39.21      A16S
ATOM  20161  O1P A   A 965     210.902 113.280   5.087  1.00 53.56      A16S
ATOM  20162  O2P A   A 965     212.122 111.336   6.299  1.00 53.56      A16S
ATOM  20163  O5* A   A 965     213.081 112.414   4.273  1.00 39.21      A16S
ATOM  20164  C5* A   A 965     213.082 113.361   3.183  1.00 39.21      A16S
ATOM  20165  C4* A   A 965     213.172 112.619   1.879  1.00 39.21      A16S
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ATOM  20166  O4*  A   A 965     214.514 112.089   1.743  1.00 39.21      A16S
ATOM  20167  C1*  A   A 965     214.496 110.674   1.722  1.00 39.21      A16S
ATOM  20168  N9   A   A 965     215.509 110.222   2.673  1.00 53.56      A16S
ATOM  20169  C4   A   A 965     216.603 109.427   2.433  1.00 53.56      A16S
ATOM  20170  N3   A   A 965     216.984 108.889   1.265  1.00 53.56      A16S
ATOM  20171  C2   A   A 965     218.081 108.160   1.426  1.00 53.56      A16S
ATOM  20172  N1   A   A 965     218.794 107.932   2.539  1.00 53.56      A16S
ATOM  20173  C6   A   A 965     218.382 108.492   3.692  1.00 53.56      A16S
ATOM  20174  N6   A   A 965     219.082 108.268   4.802  1.00 53.56      A16S
ATOM  20175  C5   A   A 965     217.234 109.280   3.655  1.00 53.56      A16S
ATOM  20176  N7   A   A 965     216.561 109.974   4.643  1.00 53.56      A16S
ATOM  20177  C8   A   A 965     215.550 110.515   4.011  1.00 53.56      A16S
ATOM  20178  C2*  A   A 965     213.111 110.230   2.173  1.00 39.21      A16S
ATOM  20179  O2*  A   A 965     212.743 108.956   1.698  1.00 39.21      A16S
ATOM  20180  C3*  A   A 965     212.229 111.430   1.812  1.00 39.21      A16S
ATOM  20181  O3*  A   A 965     211.375 111.477   0.658  1.00 39.21      A16S
ATOM  20182  P    G   A 966     211.884 110.988  -0.772  1.00 44.53      A16S
ATOM  20183  O1P  G   A 966     212.483 109.634  -0.641  1.00 60.27      A16S
ATOM  20184  O2P  G   A 966     210.750 111.191  -1.695  1.00 60.27      A16S
ATOM  20185  O5*  G   A 966     212.988 112.050  -1.190  1.00 44.53      A16S
ATOM  20186  C5*  G   A 966     214.157 111.623  -1.886  1.00 44.53      A16S
ATOM  20187  C4*  G   A 966     214.276 112.332  -3.206  1.00 44.53      A16S
ATOM  20188  O4*  G   A 966     213.289 111.854  -4.154  1.00 44.53      A16S
ATOM  20189  C1*  G   A 966     213.091 112.850  -5.144  1.00 44.53      A16S
ATOM  20190  N9   G   A 966     211.663 113.027  -5.386  1.00 60.27      A16S
ATOM  20191  C4   G   A 966     211.105 113.822  -6.360  1.00 60.27      A16S
ATOM  20192  N3   G   A 966     211.781 114.564  -7.262  1.00 60.27      A16S
ATOM  20193  C2   G   A 966     210.970 115.235  -8.057  1.00 60.27      A16S
ATOM  20194  N2   G   A 966     211.475 116.030  -9.002  1.00 60.27      A16S
ATOM  20195  N1   G   A 966     209.604 115.176  -7.980  1.00 60.27      A16S
ATOM  20196  C6   G   A 966     208.886 114.417  -7.064  1.00 60.27      A16S
ATOM  20197  O6   G   A 966     207.649 114.435  -7.082  1.00 60.27      A16S
ATOM  20198  C5   G   A 966     209.746 113.697  -6.199  1.00 60.27      A16S
ATOM  20199  N7   G   A 966     209.452 112.837  -5.152  1.00 60.27      A16S
ATOM  20200  C8   G   A 966     210.618 112.462  -4.703  1.00 60.27      A16S
ATOM  20201  C2*  G   A 966     213.781 114.132  -4.663  1.00 44.53      A16S
ATOM  20202  O2*  G   A 966     214.985 114.303  -5.372  1.00 44.53      A16S
ATOM  20203  C3*  G   A 966     214.043 113.828  -3.194  1.00 44.53      A16S
ATOM  20204  O3*  G   A 966     215.178 114.525  -2.732  1.00 44.53      A16S
ATOM  20205  P    C   A 967     214.975 115.841  -1.851  1.00 30.51      A16S
ATOM  20206  O1P  C   A 967     216.273 116.171  -1.217  1.00 50.30      A16S
ATOM  20207  O2P  C   A 967     213.783 115.604  -1.005  1.00 50.30      A16S
ATOM  20208  O5*  C   A 967     214.605 116.965  -2.914  1.00 30.51      A16S
ATOM  20209  C5*  C   A 967     215.520 117.312  -3.955  1.00 30.51      A16S
ATOM  20210  C4*  C   A 967     214.799 118.027  -5.064  1.00 30.51      A16S
ATOM  20211  O4*  C   A 967     213.755 117.171  -5.580  1.00 30.51      A16S
ATOM  20212  C1*  C   A 967     212.661 117.959  -6.012  1.00 30.51      A16S
ATOM  20213  N1   C   A 967     211.438 117.460  -5.379  1.00 50.30      A16S
ATOM  20214  C6   C   A 967     211.493 116.616  -4.304  1.00 50.30      A16S
ATOM  20215  C2   C   A 967     210.212 117.863  -5.900  1.00 50.30      A16S
ATOM  20216  O2   C   A 967     210.201 118.638  -6.870  1.00 50.30      A16S
ATOM  20217  N3   C   A 967     209.074 117.402  -5.334  1.00 50.30      A16S
ATOM  20218  C4   C   A 967     209.138 116.570  -4.286  1.00 50.30      A16S
ATOM  20219  N4   C   A 967     207.992 116.128  -3.756  1.00 50.30      A16S
ATOM  20220  C5   C   A 967     210.380 116.151  -3.734  1.00 50.30      A16S
ATOM  20221  C2*  C   A 967     212.961 119.424  -5.695  1.00 30.51      A16S
ATOM  20222  O2*  C   A 967     213.291 120.091  -6.895  1.00 30.51      A16S
ATOM  20223  C3*  C   A 967     214.086 119.305  -4.662  1.00 30.51      A16S
ATOM  20224  O3*  C   A 967     214.995 120.401  -4.681  1.00 30.51      A16S
ATOM  20225  P    A   A 968     214.841 121.587  -3.608  1.00 48.53      A16S
ATOM  20226  O1P  A   A 968     213.772 122.499  -4.096  1.00 62.55      A16S
ATOM  20227  O2P  A   A 968     216.201 122.124  -3.322  1.00 62.55      A16S
ATOM  20228  O5*  A   A 968     214.312 120.866  -2.288  1.00 48.53      A16S
ATOM  20229  C5*  A   A 968     214.556 121.450  -0.988  1.00 48.53      A16S
ATOM  20230  C4*  A   A 968     213.600 120.888   0.038  1.00 48.53      A16S
ATOM  20231  O4*  A   A 968     212.256 121.182  -0.387  1.00 48.53      A16S
ATOM  20232  C1*  A   A 968     211.533 119.989  -0.561  1.00 48.53      A16S
ATOM  20233  N9   A   A 968     210.794 120.130  -1.807  1.00 62.55      A16S
ATOM  20234  C4   A   A 968     209.503 119.740  -2.044  1.00 62.55      A16S
ATOM  20235  N3   A   A 968     208.670 119.118  -1.193  1.00 62.55      A16S
ATOM  20236  C2   A   A 968     207.489 118.927  -1.758  1.00 62.55      A16S
ATOM  20237  N1   A   A 968     207.077 119.260  -2.991  1.00 62.55      A16S
ATOM  20238  C6   A   A 968     207.949 119.875  -3.823  1.00 62.55      A16S
ATOM  20239  N6   A   A 968     207.553 120.194  -5.059  1.00 62.55      A16S
ATOM  20240  C5   A   A 968     209.227 120.137  -3.337  1.00 62.55      A16S
ATOM  20241  N7   A   A 968     210.331 120.743  -3.913  1.00 62.55      A16S
ATOM  20242  C8   A   A 968     211.234 120.707  -2.969  1.00 62.55      A16S
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ATOM  20243  C2* A   A 968     212.538 118.843  -0.592  1.00 48.53      A16S
ATOM  20244  O2* A   A 968     211.973 117.676  -0.028  1.00 48.53      A16S
ATOM  20245  C3* A   A 968     213.668 119.388   0.264  1.00 48.53      A16S
ATOM  20246  O3* A   A 968     213.402 119.137   1.624  1.00 48.53      A16S
ATOM  20247  P   A   A 969     214.622 119.034   2.648  1.00 42.47      A16S
ATOM  20248  O1P A   A 969     214.183 118.327   3.878  1.00 44.82      A16S
ATOM  20249  O2P A   A 969     215.233 120.378   2.749  1.00 44.82      A16S
ATOM  20250  O5* A   A 969     215.657 118.090   1.903  1.00 42.47      A16S
ATOM  20251  C5* A   A 969     215.451 116.680   1.872  1.00 42.47      A16S
ATOM  20252  C4* A   A 969     216.303 116.027   2.915  1.00 42.47      A16S
ATOM  20253  O4* A   A 969     216.060 114.601   2.867  1.00 42.47      A16S
ATOM  20254  C1* A   A 969     217.281 113.901   3.014  1.00 42.47      A16S
ATOM  20255  N9  A   A 969     217.593 113.281   1.723  1.00 44.82      A16S
ATOM  20256  C4  A   A 969     218.455 112.235   1.508  1.00 44.82      A16S
ATOM  20257  N3  A   A 969     219.168 111.571   2.427  1.00 44.82      A16S
ATOM  20258  C2  A   A 969     219.898 110.635   1.855  1.00 44.82      A16S
ATOM  20259  N1  A   A 969     219.981 110.298   0.569  1.00 44.82      A16S
ATOM  20260  C6  A   A 969     219.238 110.974  -0.327  1.00 44.82      A16S
ATOM  20261  N6  A   A 969     219.292 110.613  -1.608  1.00 44.82      A16S
ATOM  20262  C5  A   A 969     218.441 112.009   0.147  1.00 44.82      A16S
ATOM  20263  N7  A   A 969     217.590 112.897  -0.495  1.00 44.82      A16S
ATOM  20264  C8  A   A 969     217.107 113.626   0.480  1.00 44.82      A16S
ATOM  20265  C2* A   A 969     218.342 114.936   3.384  1.00 42.47      A16S
ATOM  20266  O2* A   A 969     218.382 115.084   4.786  1.00 42.47      A16S
ATOM  20267  C3* A   A 969     217.795 116.167   2.686  1.00 42.47      A16S
ATOM  20268  O3* A   A 969     218.337 117.387   3.158  1.00 42.47      A16S
ATOM  20269  P   C   A 970     219.616 118.019   2.406  1.00 33.90      A16S
ATOM  20270  O1P C   A 970     220.115 119.164   3.201  1.00 63.23      A16S
ATOM  20271  O2P C   A 970     219.275 118.233   0.964  1.00 63.23      A16S
ATOM  20272  O5* C   A 970     220.704 116.867   2.572  1.00 33.90      A16S
ATOM  20273  C5* C   A 970     221.154 116.502   3.886  1.00 33.90      A16S
ATOM  20274  C4* C   A 970     222.215 115.429   3.819  1.00 33.90      A16S
ATOM  20275  O4* C   A 970     221.651 114.253   3.192  1.00 33.90      A16S
ATOM  20276  C1* C   A 970     222.658 113.577   2.458  1.00 33.90      A16S
ATOM  20277  N1  C   A 970     222.281 113.555   1.034  1.00 63.23      A16S
ATOM  20278  C6  C   A 970     221.507 114.539   0.486  1.00 63.23      A16S
ATOM  20279  C2  C   A 970     222.748 112.511   0.245  1.00 63.23      A16S
ATOM  20280  O2  C   A 970     223.447 111.625   0.775  1.00 63.23      A16S
ATOM  20281  N3  C   A 970     222.437 112.487  -1.070  1.00 63.23      A16S
ATOM  20282  C4  C   A 970     221.696 113.457  -1.597  1.00 63.23      A16S
ATOM  20283  N4  C   A 970     221.435 113.402  -2.903  1.00 63.23      A16S
ATOM  20284  C5  C   A 970     221.195 114.528  -0.813  1.00 63.23      A16S
ATOM  20285  C2* C   A 970     223.969 114.326   2.667  1.00 33.90      A16S
ATOM  20286  O2* C   A 970     224.645 113.727   3.743  1.00 33.90      A16S
ATOM  20287  C3* C   A 970     223.469 115.721   3.004  1.00 33.90      A16S
ATOM  20288  O3* C   A 970     224.448 116.489   3.694  1.00 33.90      A16S
ATOM  20289  P   G   A 971     225.073 117.774   2.969  1.00 59.75      A16S
ATOM  20290  O1P G   A 971     224.148 118.905   3.196  1.00 81.32      A16S
ATOM  20291  O2P G   A 971     225.414 117.381   1.579  1.00 81.32      A16S
ATOM  20292  O5* G   A 971     226.429 118.045   3.760  1.00 59.75      A16S
ATOM  20293  C5* G   A 971     226.442 118.188   5.194  1.00 59.75      A16S
ATOM  20294  C4* G   A 971     227.126 119.486   5.602  1.00 59.75      A16S
ATOM  20295  O4* G   A 971     228.575 119.350   5.661  1.00 59.75      A16S
ATOM  20296  C1* G   A 971     229.144 120.532   5.154  1.00 59.75      A16S
ATOM  20297  N9  G   A 971     230.537 120.305   4.799  1.00 81.32      A16S
ATOM  20298  C4  G   A 971     231.572 120.221   5.684  1.00 81.32      A16S
ATOM  20299  N3  G   A 971     231.468 120.304   7.019  1.00 81.32      A16S
ATOM  20300  C2  G   A 971     232.639 120.213   7.608  1.00 81.32      A16S
ATOM  20301  N2  G   A 971     232.717 120.286   8.940  1.00 81.32      A16S
ATOM  20302  N1  G   A 971     233.821 120.048   6.939  1.00 81.32      A16S
ATOM  20303  C6  G   A 971     233.952 119.963   5.560  1.00 81.32      A16S
ATOM  20304  O6  G   A 971     235.074 119.826   5.052  1.00 81.32      A16S
ATOM  20305  C5  G   A 971     232.700 120.059   4.917  1.00 81.32      A16S
ATOM  20306  N7  G   A 971     232.378 120.024   3.571  1.00 81.32      A16S
ATOM  20307  C8  G   A 971     231.082 120.167   3.549  1.00 81.32      A16S
ATOM  20308  C2* G   A 971     228.188 120.973   4.054  1.00 59.75      A16S
ATOM  20309  O2* G   A 971     228.418 122.331   3.737  1.00 59.75      A16S
ATOM  20310  C3* G   A 971     226.851 120.727   4.746  1.00 59.75      A16S
ATOM  20311  O3* G   A 971     226.622 121.837   5.600  1.00 59.75      A16S
ATOM  20312  P   C   A 972     225.198 122.565   5.589  1.00 38.88      A16S
ATOM  20313  O1P C   A 972     224.647 122.406   4.222  1.00 47.92      A16S
ATOM  20314  O2P C   A 972     225.376 123.932   6.122  1.00 47.92      A16S
ATOM  20315  O5* C   A 972     224.353 121.713   6.649  1.00 38.88      A16S
ATOM  20316  C5* C   A 972     223.940 120.352   6.386  1.00 38.88      A16S
ATOM  20317  C4* C   A 972     222.496 120.154   6.811  1.00 38.88      A16S
ATOM  20318  O4* C   A 972     221.971 118.931   6.232  1.00 38.88      A16S
ATOM  20319  C1* C   A 972     221.035 118.346   7.121  1.00 38.88      A16S
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ATOM  20320  N1  C   A 972     221.594 117.078   7.604  1.00 47.92      A16S
ATOM  20321  C6  C   A 972     222.913 116.779   7.423  1.00 47.92      A16S
ATOM  20322  C2  C   A 972     220.762 116.193   8.262  1.00 47.92      A16S
ATOM  20323  O2  C   A 972     219.575 116.484   8.388  1.00 47.92      A16S
ATOM  20324  N3  C   A 972     221.266 115.037   8.743  1.00 47.92      A16S
ATOM  20325  C4  C   A 972     222.559 114.752   8.574  1.00 47.92      A16S
ATOM  20326  N4  C   A 972     223.029 113.595   9.073  1.00 47.92      A16S
ATOM  20327  C5  C   A 972     223.433 115.638   7.887  1.00 47.92      A16S
ATOM  20328  C2* C   A 972     220.853 119.310   8.288  1.00 38.88      A16S
ATOM  20329  O2* C   A 972     219.804 120.218   8.008  1.00 38.88      A16S
ATOM  20330  C3* C   A 972     222.201 120.009   8.300  1.00 38.88      A16S
ATOM  20331  O3* C   A 972     222.146 121.235   9.014  1.00 38.88      A16S
ATOM  20332  P   G   A 973     222.732 121.303  10.515  1.00 54.85      A16S
ATOM  20333  O1P G   A 973     222.994 122.762  10.715  1.00 44.72      A16S
ATOM  20334  O2P G   A 973     223.830 120.322  10.740  1.00 44.72      A16S
ATOM  20335  O5* G   A 973     221.531 120.781  11.421  1.00 54.85      A16S
ATOM  20336  C5* G   A 973     220.323 121.549  11.573  1.00 54.85      A16S
ATOM  20337  C4* G   A 973     219.499 120.996  12.707  1.00 54.85      A16S
ATOM  20338  O4* G   A 973     219.005 119.686  12.342  1.00 54.85      A16S
ATOM  20339  C1* G   A 973     219.039 118.833  13.468  1.00 54.85      A16S
ATOM  20340  N9  G   A 973     219.974 117.746  13.187  1.00 44.72      A16S
ATOM  20341  C4  G   A 973     219.908 116.454  13.656  1.00 44.72      A16S
ATOM  20342  N3  G   A 973     218.958 115.951  14.464  1.00 44.72      A16S
ATOM  20343  C2  G   A 973     219.177 114.682  14.737  1.00 44.72      A16S
ATOM  20344  N2  G   A 973     218.339 114.011  15.525  1.00 44.72      A16S
ATOM  20345  N1  G   A 973     220.234 113.974  14.261  1.00 44.72      A16S
ATOM  20346  C6  G   A 973     221.221 114.479  13.439  1.00 44.72      A16S
ATOM  20347  O6  G   A 973     222.144 113.760  13.086  1.00 44.72      A16S
ATOM  20348  C5  G   A 973     221.003 115.819  13.130  1.00 44.72      A16S
ATOM  20349  N7  G   A 973     221.744 116.681  12.343  1.00 44.72      A16S
ATOM  20350  C8  G   A 973     221.101 117.813  12.407  1.00 44.72      A16S
ATOM  20351  C2* G   A 973     219.477 119.670  14.668  1.00 54.85      A16S
ATOM  20352  O2* G   A 973     218.335 120.170  15.319  1.00 54.85      A16S
ATOM  20353  C3* G   A 973     220.267 120.781  13.999  1.00 54.85      A16S
ATOM  20354  O3* G   A 973     220.299 121.975  14.777  1.00 54.85      A16S
ATOM  20355  P   A   A 974     221.058 121.994  16.201  1.00 52.97      A16S
ATOM  20356  O1P A   A 974     221.329 120.600  16.675  1.00 56.69      A16S
ATOM  20357  O2P A   A 974     220.245 122.911  17.048  1.00 56.69      A16S
ATOM  20358  O5* A   A 974     222.450 122.720  15.922  1.00 52.97      A16S
ATOM  20359  C5* A   A 974     223.232 122.421  14.757  1.00 52.97      A16S
ATOM  20360  C4* A   A 974     224.616 121.965  15.158  1.00 52.97      A16S
ATOM  20361  O4* A   A 974     224.493 120.808  16.019  1.00 52.97      A16S
ATOM  20362  C1* A   A 974     225.174 119.710  15.453  1.00 52.97      A16S
ATOM  20363  N9  A   A 974     224.340 118.527  15.642  1.00 56.69      A16S
ATOM  20364  C4  A   A 974     224.745 117.218  15.583  1.00 56.69      A16S
ATOM  20365  N3  A   A 974     225.979 116.761  15.336  1.00 56.69      A16S
ATOM  20366  C2  A   A 974     225.995 115.429  15.363  1.00 56.69      A16S
ATOM  20367  N1  A   A 974     224.991 114.570  15.594  1.00 56.69      A16S
ATOM  20368  C6  A   A 974     223.763 115.067  15.835  1.00 56.69      A16S
ATOM  20369  N6  A   A 974     222.764 114.217  16.062  1.00 56.69      A16S
ATOM  20370  C5  A   A 974     223.613 116.459  15.833  1.00 56.69      A16S
ATOM  20371  N7  A   A 974     222.511 117.274  16.041  1.00 56.69      A16S
ATOM  20372  C8  A   A 974     222.992 118.488  15.915  1.00 56.69      A16S
ATOM  20373  C2* A   A 974     225.385 120.037  13.977  1.00 52.97      A16S
ATOM  20374  O2* A   A 974     226.551 119.409  13.492  1.00 52.97      A16S
ATOM  20375  C3* A   A 974     225.516 121.553  14.001  1.00 52.97      A16S
ATOM  20376  O3* A   A 974     226.855 121.900  14.308  1.00 52.97      A16S
ATOM  20377  P   A   A 975     227.602 123.045  13.464  1.00 54.58      A16S
ATOM  20378  O1P A   A 975     226.582 123.864  12.747  1.00 37.94      A16S
ATOM  20379  O2P A   A 975     228.685 122.374  12.712  1.00 37.94      A16S
ATOM  20380  O5* A   A 975     228.295 123.944  14.586  1.00 54.58      A16S
ATOM  20381  C5* A   A 975     228.301 125.385  14.518  1.00 54.58      A16S
ATOM  20382  C4* A   A 975     227.844 125.977  15.837  1.00 54.58      A16S
ATOM  20383  O4* A   A 975     227.925 127.414  15.725  1.00 54.58      A16S
ATOM  20384  C1* A   A 975     226.638 127.977  15.743  1.00 54.58      A16S
ATOM  20385  N9  A   A 975     226.312 128.300  14.367  1.00 37.94      A16S
ATOM  20386  C4  A   A 975     226.047 129.544  13.883  1.00 37.94      A16S
ATOM  20387  N3  A   A 975     226.002 130.683  14.584  1.00 37.94      A16S
ATOM  20388  C2  A   A 975     225.752 131.707  13.774  1.00 37.94      A16S
ATOM  20389  N1  A   A 975     225.544 131.708  12.437  1.00 37.94      A16S
ATOM  20390  C6  A   A 975     225.579 130.527  11.775  1.00 37.94      A16S
ATOM  20391  N6  A   A 975     225.345 130.512  10.460  1.00 37.94      A16S
ATOM  20392  C5  A   A 975     225.854 129.385  12.518  1.00 37.94      A16S
ATOM  20393  N7  A   A 975     225.982 128.059  12.155  1.00 37.94      A16S
ATOM  20394  C8  A   A 975     226.244 127.455  13.287  1.00 37.94      A16S
ATOM  20395  C2* A   A 975     225.697 126.979  16.409  1.00 54.58      A16S
ATOM  20396  O2* A   A 975     225.494 127.304  17.757  1.00 54.58      A16S
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ATOM  20397  C3* A   A 975     226.396 125.647  16.153  1.00 54.58      A16S
ATOM  20398  O3* A   A 975     226.261 124.625  17.155  1.00 54.58      A16S
ATOM  20399  P    G   A 976     227.052 124.732  18.557  1.00 56.81      A16S
ATOM  20400  O1P G   A 976     226.431 123.742  19.464  1.00 75.14      A16S
ATOM  20401  O2P G   A 976     227.191 126.136  18.988  1.00 75.14      A16S
ATOM  20402  O5* G   A 976     228.510 124.186  18.229  1.00 56.81      A16S
ATOM  20403  C5* G   A 976     228.680 123.092  17.321  1.00 56.81      A16S
ATOM  20404  C4* G   A 976     230.010 122.398  17.525  1.00 56.81      A16S
ATOM  20405  O4* G   A 976     231.131 123.210  17.078  1.00 56.81      A16S
ATOM  20406  C1* G   A 976     232.204 123.048  17.981  1.00 56.81      A16S
ATOM  20407  N9   G   A 976     232.994 124.276  18.007  1.00 75.14      A16S
ATOM  20408  C4   G   A 976     234.119 124.550  17.258  1.00 75.14      A16S
ATOM  20409  N3   G   A 976     234.683 123.734  16.345  1.00 75.14      A16S
ATOM  20410  C2   G   A 976     235.763 124.273  15.806  1.00 75.14      A16S
ATOM  20411  N2   G   A 976     236.434 123.603  14.873  1.00 75.14      A16S
ATOM  20412  N1   G   A 976     236.260 125.511  16.143  1.00 75.14      A16S
ATOM  20413  C6   G   A 976     235.701 126.366  17.087  1.00 75.14      A16S
ATOM  20414  O6   G   A 976     236.243 127.461  17.339  1.00 75.14      A16S
ATOM  20415  C5   G   A 976     234.529 125.805  17.660  1.00 75.14      A16S
ATOM  20416  N7   G   A 976     233.670 126.317  18.618  1.00 75.14      A16S
ATOM  20417  C8   G   A 976     232.780 125.378  18.795  1.00 75.14      A16S
ATOM  20418  C2* G   A 976     231.566 122.700  19.327  1.00 56.81      A16S
ATOM  20419  O2* G   A 976     232.487 121.967  20.111  1.00 56.81      A16S
ATOM  20420  C3* G   A 976     230.361 121.859  18.907  1.00 56.81      A16S
ATOM  20421  O3* G   A 976     230.767 120.510  18.784  1.00 56.81      A16S
ATOM  20422  P    A   A 977     230.037 119.389  19.660  1.00 49.31      A16S
ATOM  20423  O1P A   A 977     228.581 119.487  19.387  1.00 93.80      A16S
ATOM  20424  O2P A   A 977     230.531 119.482  21.056  1.00 93.80      A16S
ATOM  20425  O5* A   A 977     230.581 118.033  19.052  1.00 49.31      A16S
ATOM  20426  C5* A   A 977     231.945 117.693  19.206  1.00 49.31      A16S
ATOM  20427  C4* A   A 977     232.066 116.574  20.183  1.00 49.31      A16S
ATOM  20428  O4* A   A 977     231.189 115.511  19.759  1.00 49.31      A16S
ATOM  20429  C1* A   A 977     231.808 114.262  19.990  1.00 49.31      A16S
ATOM  20430  N9   A   A 977     231.807 113.524  18.719  1.00 93.80      A16S
ATOM  20431  C4   A   A 977     232.856 113.275  17.861  1.00 93.80      A16S
ATOM  20432  N3   A   A 977     234.142 113.637  18.009  1.00 93.80      A16S
ATOM  20433  C2   A   A 977     234.867 113.235  16.970  1.00 93.80      A16S
ATOM  20434  N1   A   A 977     234.487 112.566  15.878  1.00 93.80      A16S
ATOM  20435  C6   A   A 977     233.191 112.220  15.754  1.00 93.80      A16S
ATOM  20436  N6   A   A 977     232.809 111.566  14.657  1.00 93.80      A16S
ATOM  20437  C5   A   A 977     232.315 112.578  16.795  1.00 93.80      A16S
ATOM  20438  N7   A   A 977     230.956 112.374  16.982  1.00 93.80      A16S
ATOM  20439  C8   A   A 977     230.706 112.949  18.131  1.00 93.80      A16S
ATOM  20440  C2* A   A 977     233.168 114.521  20.663  1.00 49.31      A16S
ATOM  20441  O2* A   A 977     233.083 114.331  22.061  1.00 49.31      A16S
ATOM  20442  C3* A   A 977     233.454 115.972  20.273  1.00 49.31      A16S
ATOM  20443  O3* A   A 977     234.193 116.710  21.255  1.00 49.31      A16S
ATOM  20444  P    A   A 978     235.787 116.521  21.407  1.00 37.14      A16S
ATOM  20445  O1P A   A 978     236.227 117.583  22.349  1.00 58.55      A16S
ATOM  20446  O2P A   A 978     236.407 116.433  20.063  1.00 58.55      A16S
ATOM  20447  O5* A   A 978     235.948 115.123  22.141  1.00 37.14      A16S
ATOM  20448  C5* A   A 978     235.961 113.923  21.396  1.00 37.14      A16S
ATOM  20449  C4* A   A 978     236.888 112.950  22.040  1.00 37.14      A16S
ATOM  20450  O4* A   A 978     238.207 113.528  22.065  1.00 37.14      A16S
ATOM  20451  C1* A   A 978     238.858 113.162  23.267  1.00 37.14      A16S
ATOM  20452  N9   A   A 978     239.271 114.387  23.946  1.00 58.55      A16S
ATOM  20453  C4   A   A 978     240.440 114.554  24.638  1.00 58.55      A16S
ATOM  20454  N3   A   A 978     241.389 113.631  24.856  1.00 58.55      A16S
ATOM  20455  C2   A   A 978     242.393 114.156  25.529  1.00 58.55      A16S
ATOM  20456  N1   A   A 978     242.550 115.408  25.976  1.00 58.55      A16S
ATOM  20457  C6   A   A 978     241.576 116.309  25.735  1.00 58.55      A16S
ATOM  20458  N6   A   A 978     241.735 117.558  26.171  1.00 58.55      A16S
ATOM  20459  C5   A   A 978     240.455 115.874  25.037  1.00 58.55      A16S
ATOM  20460  N7   A   A 978     239.301 116.525  24.629  1.00 58.55      A16S
ATOM  20461  C8   A   A 978     238.627 115.600  23.997  1.00 58.55      A16S
ATOM  20462  C2* A   A 978     237.922 112.265  24.072  1.00 37.14      A16S
ATOM  20463  O2* A   A 978     238.276 110.927  23.825  1.00 37.14      A16S
ATOM  20464  C3* A   A 978     236.565 112.639  23.489  1.00 37.14      A16S
ATOM  20465  O3* A   A 978     235.627 111.578  23.559  1.00 37.14      A16S
ATOM  20466  P    C   A 979     234.262 111.801  24.350  1.00 85.64      A16S
ATOM  20467  O1P C   A 979     233.457 110.545  24.254  1.00 49.86      A16S
ATOM  20468  O2P C   A 979     233.700 113.085  23.874  1.00 49.86      A16S
ATOM  20469  O5* C   A 979     234.757 112.009  25.847  1.00 85.64      A16S
ATOM  20470  C5* C   A 979     235.639 111.054  26.461  1.00 85.64      A16S
ATOM  20471  C4* C   A 979     235.738 111.311  27.939  1.00 85.64      A16S
ATOM  20472  O4* C   A 979     236.659 112.401  28.200  1.00 85.64      A16S
ATOM  20473  C1* C   A 979     236.212 113.145  29.320  1.00 85.64      A16S
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ATOM  20474  N1  C   A 979     235.995 114.546  28.902  1.00 49.86      A16S
ATOM  20475  C6  C   A 979     235.986 114.890  27.581  1.00 49.86      A16S
ATOM  20476  C2  C   A 979     235.785 115.529  29.887  1.00 49.86      A16S
ATOM  20477  O2  C   A 979     235.838 115.205  31.086  1.00 49.86      A16S
ATOM  20478  N3  C   A 979     235.542 116.808  29.507  1.00 49.86      A16S
ATOM  20479  C4  C   A 979     235.527 117.127  28.209  1.00 49.86      A16S
ATOM  20480  N4  C   A 979     235.280 118.406  27.873  1.00 49.86      A16S
ATOM  20481  C5  C   A 979     235.763 116.155  27.194  1.00 49.86      A16S
ATOM  20482  C2* C   A 979     234.944 112.468  29.848  1.00 85.64      A16S
ATOM  20483  O2* C   A 979     235.298 111.606  30.918  1.00 85.64      A16S
ATOM  20484  C3* C   A 979     234.443 111.741  28.600  1.00 85.64      A16S
ATOM  20485  O3* C   A 979     233.554 110.645  28.831  1.00 85.64      A16S
ATOM  20486  P   C   A 980     232.045 110.714  28.255  1.00 58.77      A16S
ATOM  20487  O1P C   A 980     231.238 109.781  29.087  1.00 83.36      A16S
ATOM  20488  O2P C   A 980     232.047 110.553  26.769  1.00 83.36      A16S
ATOM  20489  O5* C   A 980     231.576 112.202  28.599  1.00 58.77      A16S
ATOM  20490  C5* C   A 980     231.349 112.590  29.962  1.00 58.77      A16S
ATOM  20491  C4* C   A 980     231.173 114.087  30.083  1.00 58.77      A16S
ATOM  20492  O4* C   A 980     232.279 114.769  29.440  1.00 58.77      A16S
ATOM  20493  C1* C   A 980     231.869 116.073  29.065  1.00 58.77      A16S
ATOM  20494  N1  C   A 980     232.244 116.322  27.665  1.00 83.36      A16S
ATOM  20495  C6  C   A 980     232.569 115.289  26.833  1.00 83.36      A16S
ATOM  20496  C2  C   A 980     232.273 117.649  27.193  1.00 83.36      A16S
ATOM  20497  O2  C   A 980     231.940 118.574  27.949  1.00 83.36      A16S
ATOM  20498  N3  C   A 980     232.653 117.884  25.923  1.00 83.36      A16S
ATOM  20499  C4  C   A 980     232.983 116.866  25.126  1.00 83.36      A16S
ATOM  20500  N4  C   A 980     233.368 117.148  23.884  1.00 83.36      A16S
ATOM  20501  C5  C   A 980     232.938 115.513  25.568  1.00 83.36      A16S
ATOM  20502  C2* C   A 980     230.371 116.195  29.336  1.00 58.77      A16S
ATOM  20503  O2* C   A 980     230.220 116.923  30.536  1.00 58.77      A16S
ATOM  20504  C3* C   A 980     229.947 114.730  29.452  1.00 58.77      A16S
ATOM  20505  O3* C   A 980     228.792 114.592  30.276  1.00 58.77      A16S
ATOM  20506  P   U   A 981     227.463 113.900  29.684  1.00 64.01      A16S
ATOM  20507  O1P U   A 981     226.381 114.115  30.682  1.00 73.48      A16S
ATOM  20508  O2P U   A 981     227.804 112.513  29.265  1.00 73.48      A16S
ATOM  20509  O5* U   A 981     227.111 114.783  28.403  1.00 64.01      A16S
ATOM  20510  C5* U   A 981     226.675 116.153  28.556  1.00 64.01      A16S
ATOM  20511  C4* U   A 981     226.855 116.921  27.266  1.00 64.01      A16S
ATOM  20512  O4* U   A 981     228.259 116.905  26.902  1.00 64.01      A16S
ATOM  20513  C1* U   A 981     228.397 116.745  25.500  1.00 64.01      A16S
ATOM  20514  N1  U   A 981     229.082 115.460  25.248  1.00 73.48      A16S
ATOM  20515  C6  U   A 981     229.159 114.483  26.221  1.00 73.48      A16S
ATOM  20516  C2  U   A 981     229.640 115.250  24.001  1.00 73.48      A16S
ATOM  20517  O2  U   A 981     229.602 116.089  23.115  1.00 73.48      A16S
ATOM  20518  N3  U   A 981     230.243 114.018  23.828  1.00 73.48      A16S
ATOM  20519  C4  U   A 981     230.342 112.992  24.759  1.00 73.48      A16S
ATOM  20520  O4  U   A 981     230.856 111.908  24.441  1.00 73.48      A16S
ATOM  20521  C5  U   A 981     229.754 113.295  26.024  1.00 73.48      A16S
ATOM  20522  C2* U   A 981     226.992 116.821  24.896  1.00 64.01      A16S
ATOM  20523  O2* U   A 981     226.717 118.154  24.511  1.00 64.01      A16S
ATOM  20524  C3* U   A 981     226.129 116.351  26.061  1.00 64.01      A16S
ATOM  20525  O3* U   A 981     224.785 116.817  25.985  1.00 64.01      A16S
ATOM  20526  P   U   A 982     223.622 115.816  25.502  1.00 62.14      A16S
ATOM  20527  O1P U   A 982     223.828 115.557  24.056  1.00 56.33      A16S
ATOM  20528  O2P U   A 982     222.311 116.350  25.966  1.00 56.33      A16S
ATOM  20529  O5* U   A 982     223.934 114.458  26.275  1.00 62.14      A16S
ATOM  20530  C5* U   A 982     222.947 113.426  26.345  1.00 62.14      A16S
ATOM  20531  C4* U   A 982     223.575 112.089  26.087  1.00 62.14      A16S
ATOM  20532  O4* U   A 982     224.225 112.122  24.793  1.00 62.14      A16S
ATOM  20533  C1* U   A 982     225.550 111.659  24.927  1.00 62.14      A16S
ATOM  20534  N1  U   A 982     226.396 112.266  23.887  1.00 56.33      A16S
ATOM  20535  C6  U   A 982     226.260 113.579  23.514  1.00 56.33      A16S
ATOM  20536  C2  U   A 982     227.328 111.451  23.277  1.00 56.33      A16S
ATOM  20537  O2  U   A 982     227.516 110.299  23.607  1.00 56.33      A16S
ATOM  20538  N3  U   A 982     228.040 112.036  22.267  1.00 56.33      A16S
ATOM  20539  C4  U   A 982     227.928 113.330  21.817  1.00 56.33      A16S
ATOM  20540  O4  U   A 982     228.523 113.664  20.786  1.00 56.33      A16S
ATOM  20541  C5  U   A 982     226.977 114.126  22.530  1.00 56.33      A16S
ATOM  20542  C2* U   A 982     225.943 111.934  26.375  1.00 62.14      A16S
ATOM  20543  O2* U   A 982     226.979 111.047  26.767  1.00 62.14      A16S
ATOM  20544  C3* U   A 982     224.630 111.634  27.088  1.00 62.14      A16S
ATOM  20545  O3* U   A 982     224.561 110.219  27.205  1.00 62.14      A16S
ATOM  20546  P   A   A 983     223.727 109.549  28.396  1.00 58.04      A16S
ATOM  20547  O1P A   A 983     223.480 110.583  29.437  1.00 58.75      A16S
ATOM  20548  O2P A   A 983     224.408 108.267  28.767  1.00 58.75      A16S
ATOM  20549  O5* A   A 983     222.327 109.205  27.712  1.00 58.04      A16S
ATOM  20550  C5* A   A 983     222.225 108.168  26.713  1.00 58.04      A16S
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ATOM  20551  C4* A   A 983     221.070 108.443  25.788  1.00 58.04      A16S
ATOM  20552  O4* A   A 983     221.231 109.763  25.225  1.00 58.04      A16S
ATOM  20553  C1* A   A 983     220.737 109.779  23.908  1.00 58.04      A16S
ATOM  20554  N9  A   A 983     221.763 110.354  23.042  1.00 58.75      A16S
ATOM  20555  C4  A   A 983     222.949 109.773  22.668  1.00 58.75      A16S
ATOM  20556  N3  A   A 983     223.408 108.562  23.025  1.00 58.75      A16S
ATOM  20557  C2  A   A 983     224.582 108.328  22.460  1.00 58.75      A16S
ATOM  20558  N1  A   A 983     225.299 109.109  21.642  1.00 58.75      A16S
ATOM  20559  C6  A   A 983     224.811 110.323  21.311  1.00 58.75      A16S
ATOM  20560  N6  A   A 983     225.531 111.107  20.505  1.00 58.75      A16S
ATOM  20561  C5  A   A 983     223.572 110.688  21.840  1.00 58.75      A16S
ATOM  20562  N7  A   A 983     222.802 111.832  21.702  1.00 58.75      A16S
ATOM  20563  C8  A   A 983     221.743 111.584  22.434  1.00 58.75      A16S
ATOM  20564  C2* A   A 983     220.282 108.363  23.544  1.00 58.04      A16S
ATOM  20565  O2* A   A 983     218.884 108.293  23.644  1.00 58.04      A16S
ATOM  20566  C3* A   A 983     220.971 107.505  24.600  1.00 58.04      A16S
ATOM  20567  O3* A   A 983     220.126 106.402  24.913  1.00 58.04      A16S
ATOM  20568  P   C   A 984     220.712 105.122  25.690  1.00 47.28      A16S
ATOM  20569  O1P C   A 984     219.590 104.168  25.864  1.00 86.57      A16S
ATOM  20570  O2P C   A 984     221.457 105.584  26.882  1.00 86.57      A16S
ATOM  20571  O5* C   A 984     221.753 104.466  24.681  1.00 47.28      A16S
ATOM  20572  C5* C   A 984     221.333 104.002  23.392  1.00 47.28      A16S
ATOM  20573  C4* C   A 984     222.483 103.347  22.669  1.00 47.28      A16S
ATOM  20574  O4* C   A 984     223.505 104.327  22.361  1.00 47.28      A16S
ATOM  20575  C1* C   A 984     224.777 103.705  22.392  1.00 47.28      A16S
ATOM  20576  N1  C   A 984     225.670 104.465  23.293  1.00 86.57      A16S
ATOM  20577  C6  C   A 984     225.171 105.391  24.165  1.00 86.57      A16S
ATOM  20578  C2  C   A 984     227.057 104.214  23.244  1.00 86.57      A16S
ATOM  20579  O2  C   A 984     227.501 103.385  22.431  1.00 86.57      A16S
ATOM  20580  N3  C   A 984     227.875 104.881  24.079  1.00 86.57      A16S
ATOM  20581  C4  C   A 984     227.374 105.772  24.931  1.00 86.57      A16S
ATOM  20582  N4  C   A 984     228.226 106.400  25.741  1.00 86.57      A16S
ATOM  20583  C5  C   A 984     225.978 106.060  24.993  1.00 86.57      A16S
ATOM  20584  C2* C   A 984     224.585 102.240  22.799  1.00 47.28      A16S
ATOM  20585  O2* C   A 984     224.636 101.405  21.661  1.00 47.28      A16S
ATOM  20586  C3* C   A 984     223.210 102.272  23.450  1.00 47.28      A16S
ATOM  20587  O3* C   A 984     222.550 101.025  23.338  1.00 47.28      A16S
ATOM  20588  P   C   A 985     222.588 100.006  24.572  1.00 53.68      A16S
ATOM  20589  O1P C   A 985     221.739  98.827  24.250  1.00 70.18      A16S
ATOM  20590  O2P C   A 985     222.316 100.807  25.801  1.00 70.18      A16S
ATOM  20591  O5* C   A 985     224.099  99.524  24.602  1.00 53.68      A16S
ATOM  20592  C5* C   A 985     224.624  98.786  23.514  1.00 53.68      A16S
ATOM  20593  C4* C   A 985     226.082  98.538  23.719  1.00 53.68      A16S
ATOM  20594  O4* C   A 985     226.806  99.786  23.624  1.00 53.68      A16S
ATOM  20595  C1* C   A 985     227.957  99.721  24.449  1.00 53.68      A16S
ATOM  20596  N1  C   A 985     227.947 100.854  25.393  1.00 70.18      A16S
ATOM  20597  C6  C   A 985     226.862 101.674  25.502  1.00 70.18      A16S
ATOM  20598  C2  C   A 985     229.078 101.076  26.191  1.00 70.18      A16S
ATOM  20599  O2  C   A 985     230.052 100.332  26.070  1.00 70.18      A16S
ATOM  20600  N3  C   A 985     229.081 102.094  27.070  1.00 70.18      A16S
ATOM  20601  C4  C   A 985     228.017 102.882  27.174  1.00 70.18      A16S
ATOM  20602  N4  C   A 985     228.065 103.870  28.063  1.00 70.18      A16S
ATOM  20603  C5  C   A 985     226.855 102.691  26.372  1.00 70.18      A16S
ATOM  20604  C2* C   A 985     227.946  98.361  25.148  1.00 53.68      A16S
ATOM  20605  O2* C   A 985     228.705  97.438  24.398  1.00 53.68      A16S
ATOM  20606  C3* C   A 985     226.478  97.991  25.075  1.00 53.68      A16S
ATOM  20607  O3* C   A 985     226.293  96.592  25.185  1.00 53.68      A16S
ATOM  20608  P   A   A 986     225.990  95.954  26.630  1.00 78.10      A16S
ATOM  20609  O1P A   A 986     225.480  94.565  26.444  1.00 63.51      A16S
ATOM  20610  O2P A   A 986     225.168  96.950  27.379  1.00 63.51      A16S
ATOM  20611  O5* A   A 986     227.426  95.859  27.314  1.00 78.10      A16S
ATOM  20612  C5* A   A 986     228.374  94.881  26.867  1.00 78.10      A16S
ATOM  20613  C4* A   A 986     229.687  95.048  27.586  1.00 78.10      A16S
ATOM  20614  O4* A   A 986     230.248  96.349  27.280  1.00 78.10      A16S
ATOM  20615  C1* A   A 986     230.979  96.826  28.393  1.00 78.10      A16S
ATOM  20616  N9  A   A 986     230.385  98.086  28.829  1.00 63.51      A16S
ATOM  20617  C4  A   A 986     231.016  99.054  29.570  1.00 63.51      A16S
ATOM  20618  N3  A   A 986     232.278  99.034  30.031  1.00 63.51      A16S
ATOM  20619  C2  A   A 986     232.549 100.148  30.703  1.00 63.51      A16S
ATOM  20620  N1  A   A 986     231.763 101.204  30.948  1.00 63.51      A16S
ATOM  20621  C6  A   A 986     230.501 101.194  30.473  1.00 63.51      A16S
ATOM  20622  N6  A   A 986     229.722 102.247  30.718  1.00 63.51      A16S
ATOM  20623  C5  A   A 986     230.087 100.064  29.743  1.00 63.51      A16S
ATOM  20624  N7  A   A 986     228.886  99.734  29.127  1.00 63.51      A16S
ATOM  20625  C8  A   A 986     229.116  98.555  28.602  1.00 63.51      A16S
ATOM  20626  C2* A   A 986     230.909  95.758  29.482  1.00 78.10      A16S
ATOM  20627  O2* A   A 986     232.061  94.942  29.402  1.00 78.10      A16S
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ATOM  20628  C3* A   A 986     229.638  95.016  29.100  1.00 78.10      A16S
ATOM  20629  O3* A   A 986     229.611  93.697  29.613  1.00 78.10      A16S
ATOM  20630  P   G   A 987     228.723  93.383  30.914  1.00105.14      A16S
ATOM  20631  O1P G   A 987     228.599  91.901  31.031  1.00 60.68      A16S
ATOM  20632  O2P G   A 987     227.494  94.216  30.821  1.00 60.68      A16S
ATOM  20633  O5* G   A 987     229.591  93.950  32.131  1.00105.14      A16S
ATOM  20634  C5* G   A 987     230.786  93.270  32.586  1.00105.14      A16S
ATOM  20635  C4* G   A 987     231.667  94.211  33.387  1.00105.14      A16S
ATOM  20636  O4* G   A 987     231.916  95.392  32.584  1.00105.14      A16S
ATOM  20637  C1* G   A 987     231.938  96.543  33.406  1.00105.14      A16S
ATOM  20638  N9  G   A 987     230.770  97.349  33.070  1.00 60.68      A16S
ATOM  20639  C4  G   A 987     230.552  98.661  33.409  1.00 60.68      A16S
ATOM  20640  N3  G   A 987     231.400  99.455  34.095  1.00 60.68      A16S
ATOM  20641  C2  G   A 987     230.886 100.656  34.306  1.00 60.68      A16S
ATOM  20642  N2  G   A 987     231.584 101.567  34.991  1.00 60.68      A16S
ATOM  20643  N1  G   A 987     229.644 101.049  33.866  1.00 60.68      A16S
ATOM  20644  C6  G   A 987     228.756 100.245  33.157  1.00 60.68      A16S
ATOM  20645  O6  G   A 987     227.652 100.689  32.816  1.00 60.68      A16S
ATOM  20646  C5  G   A 987     229.292  98.957  32.930  1.00 60.68      A16S
ATOM  20647  N7  G   A 987     228.741  97.862  32.282  1.00 60.68      A16S
ATOM  20648  C8  G   A 987     229.653  96.936  32.384  1.00 60.68      A16S
ATOM  20649  C2* G   A 987     231.864  96.064  34.853  1.00105.14      A16S
ATOM  20650  O2* G   A 987     233.177  95.877  35.339  1.00105.14      A16S
ATOM  20651  C3* G   A 987     231.109  94.752  34.698  1.00105.14      A16S
ATOM  20652  O3* G   A 987     231.351  93.875  35.799  1.00105.14      A16S
ATOM  20653  P   G   A 988     230.451  93.992  37.137  1.00 87.76      A16S
ATOM  20654  O1P G   A 988     230.927  92.916  38.049  1.00 92.92      A16S
ATOM  20655  O2P G   A 988     229.006  94.057  36.773  1.00 92.92      A16S
ATOM  20656  O5* G   A 988     230.856  95.400  37.767  1.00 87.76      A16S
ATOM  20657  C5* G   A 988     232.065  95.539  38.530  1.00 87.76      A16S
ATOM  20658  C4* G   A 988     232.048  96.823  39.322  1.00 87.76      A16S
ATOM  20659  O4* G   A 988     232.071  97.952  38.414  1.00 87.76      A16S
ATOM  20660  C1* G   A 988     231.319  99.023  38.958  1.00 87.76      A16S
ATOM  20661  N9  G   A 988     230.166  99.254  38.096  1.00 92.92      A16S
ATOM  20662  C4  G   A 988     229.448 100.419  37.993  1.00 92.92      A16S
ATOM  20663  N3  G   A 988     229.693 101.561  38.667  1.00 92.92      A16S
ATOM  20664  C2  G   A 988     228.825 102.505  38.367  1.00 92.92      A16S
ATOM  20665  N2  G   A 988     228.918 103.701  38.949  1.00 92.92      A16S
ATOM  20666  N1  G   A 988     227.801 102.347  37.472  1.00 92.92      A16S
ATOM  20667  C6  G   A 988     227.530 101.183  36.761  1.00 92.92      A16S
ATOM  20668  O6  G   A 988     226.581 101.151  35.964  1.00 92.92      A16S
ATOM  20669  C5  G   A 988     228.449 100.155  37.082  1.00 92.92      A16S
ATOM  20670  N7  G   A 988     228.536  98.850  36.620  1.00 92.92      A16S
ATOM  20671  C8  G   A 988     229.569  98.355  37.244  1.00 92.92      A16S
ATOM  20672  C2* G   A 988     230.849  98.590  40.342  1.00 87.76      A16S
ATOM  20673  O2* G   A 988     231.766  99.039  41.321  1.00 87.76      A16S
ATOM  20674  C3* G   A 988     230.824  97.077  40.183  1.00 87.76      A16S
ATOM  20675  O3* G   A 988     230.841  96.400  41.423  1.00 87.76      A16S
ATOM  20676  P   C   A 989     229.455  95.876  42.042  1.00106.82      A16S
ATOM  20677  O1P C   A 989     229.812  95.189  43.306  1.00102.45      A16S
ATOM  20678  O2P C   A 989     228.728  95.129  40.983  1.00102.45      A16S
ATOM  20679  O5* C   A 989     228.643  97.214  42.372  1.00106.82      A16S
ATOM  20680  C5* C   A 989     229.156  98.145  43.342  1.00106.82      A16S
ATOM  20681  C4* C   A 989     228.515  99.514  43.210  1.00106.82      A16S
ATOM  20682  O4* C   A 989     228.500  99.944  41.824  1.00106.82      A16S
ATOM  20683  C1* C   A 989     227.493 100.931  41.650  1.00106.82      A16S
ATOM  20684  N1  C   A 989     226.547 100.517  40.601  1.00102.45      A16S
ATOM  20685  C6  C   A 989     226.301  99.197  40.344  1.00102.45      A16S
ATOM  20686  C2  C   A 989     225.862 101.515  39.893  1.00102.45      A16S
ATOM  20687  O2  C   A 989     226.140 102.704  40.106  1.00102.45      A16S
ATOM  20688  N3  C   A 989     224.922 101.160  38.998  1.00102.45      A16S
ATOM  20689  C4  C   A 989     224.662  99.870  38.782  1.00102.45      A16S
ATOM  20690  N4  C   A 989     223.699  99.567  37.911  1.00102.45      A16S
ATOM  20691  C5  C   A 989     225.372  98.832  39.454  1.00102.45      A16S
ATOM  20692  C2* C   A 989     226.740 101.058  42.971  1.00106.82      A16S
ATOM  20693  O2* C   A 989     227.213 102.201  43.663  1.00106.82      A16S
ATOM  20694  C3* C   A 989     227.074  99.731  43.647  1.00106.82      A16S
ATOM  20695  O3* C   A 989     226.913  99.842  45.055  1.00106.82      A16S
ATOM  20696  P   C   A 990     225.462  99.603  45.709  1.00112.36      A16S
ATOM  20697  O1P C   A 990     225.665  99.714  47.174  1.00102.31      A16S
ATOM  20698  O2P C   A 990     224.872  98.362  45.140  1.00102.31      A16S
ATOM  20699  O5* C   A 990     224.588 100.849  45.228  1.00112.36      A16S
ATOM  20700  C5* C   A 990     224.808 102.155  45.792  1.00112.36      A16S
ATOM  20701  C4* C   A 990     223.649 103.083  45.490  1.00112.36      A16S
ATOM  20702  O4* C   A 990     223.631 103.432  44.082  1.00112.36      A16S
ATOM  20703  C1* C   A 990     222.291 103.667  43.666  1.00112.36      A16S
ATOM  20704  N1  C   A 990     221.950 102.744  42.561  1.00102.31      A16S
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ATOM  20705  C6  C   A 990     222.612 101.555  42.399  1.00102.31      A16S
ATOM  20706  C2  C   A 990     220.921 103.105  41.671  1.00102.31      A16S
ATOM  20707  O2  C   A 990     220.331 104.189  41.835  1.00102.31      A16S
ATOM  20708  N3  C   A 990     220.597 102.265  40.660  1.00102.31      A16S
ATOM  20709  C4  C   A 990     221.251 101.110  40.516  1.00102.31      A16S
ATOM  20710  N4  C   A 990     220.898 100.315  39.506  1.00102.31      A16S
ATOM  20711  C5  C   A 990     222.298 100.718  41.401  1.00102.31      A16S
ATOM  20712  C2* C   A 990     221.385 103.476  44.883  1.00112.36      A16S
ATOM  20713  O2* C   A 990     221.096 104.741  45.452  1.00112.36      A16S
ATOM  20714  C3* C   A 990     222.243 102.575  45.770  1.00112.36      A16S
ATOM  20715  O3* C   A 990     221.876 102.670  47.141  1.00112.36      A16S
ATOM  20716  P   U   A 991     221.127 101.433  47.849  1.00182.13      A16S
ATOM  20717  O1P U   A 991     222.054 100.892  48.873  1.00142.26      A16S
ATOM  20718  O2P U   A 991     220.580 100.525  46.805  1.00142.26      A16S
ATOM  20719  O5* U   A 991     219.913 102.124  48.614  1.00182.13      A16S
ATOM  20720  C5* U   A 991     218.546 101.877  48.232  1.00182.13      A16S
ATOM  20721  C4* U   A 991     218.081 102.941  47.271  1.00182.13      A16S
ATOM  20722  O4* U   A 991     218.737 102.749  45.994  1.00182.13      A16S
ATOM  20723  C1* U   A 991     217.869 103.150  44.948  1.00182.13      A16S
ATOM  20724  N1  U   A 991     217.790 102.079  43.935  1.00142.26      A16S
ATOM  20725  C6  U   A 991     218.372 100.846  44.146  1.00142.26      A16S
ATOM  20726  C2  U   A 991     217.135 102.353  42.735  1.00142.26      A16S
ATOM  20727  O2  U   A 991     216.567 103.405  42.509  1.00142.26      A16S
ATOM  20728  N3  U   A 991     217.171 101.340  41.809  1.00142.26      A16S
ATOM  20729  C4  U   A 991     217.766 100.106  41.948  1.00142.26      A16S
ATOM  20730  O4  U   A 991     217.795  99.340  40.986  1.00142.26      A16S
ATOM  20731  C5  U   A 991     218.383  99.880  43.218  1.00142.26      A16S
ATOM  20732  C2* U   A 991     216.550 103.608  45.574  1.00182.13      A16S
ATOM  20733  O2* U   A 991     216.578 105.017  45.671  1.00182.13      A16S
ATOM  20734  C3* U   A 991     216.597 102.945  46.947  1.00182.13      A16S
ATOM  20735  O3* U   A 991     215.910 103.728  47.922  1.00182.13      A16S
ATOM  20736  P   U   A 992     214.302 103.703  47.993  1.00 95.67      A16S
ATOM  20737  O1P U   A 992     213.935 102.904  49.190  1.00142.95      A16S
ATOM  20738  O2P U   A 992     213.752 103.323  46.666  1.00142.95      A16S
ATOM  20739  O5* U   A 992     213.910 105.224  48.267  1.00 95.67      A16S
ATOM  20740  C5* U   A 992     214.646 106.293  47.651  1.00 95.67      A16S
ATOM  20741  C4* U   A 992     213.810 107.546  47.607  1.00 95.67      A16S
ATOM  20742  O4* U   A 992     212.609 107.296  46.843  1.00 95.67      A16S
ATOM  20743  C1* U   A 992     211.603 108.199  47.259  1.00 95.67      A16S
ATOM  20744  N1  U   A 992     210.287 107.548  47.150  1.00142.95      A16S
ATOM  20745  C6  U   A 992     210.122 106.204  47.392  1.00142.95      A16S
ATOM  20746  C2  U   A 992     209.212 108.340  46.767  1.00142.95      A16S
ATOM  20747  O2  U   A 992     209.305 109.539  46.566  1.00142.95      A16S
ATOM  20748  N3  U   A 992     208.022 107.675  46.629  1.00142.95      A16S
ATOM  20749  C4  U   A 992     207.794 106.331  46.832  1.00142.95      A16S
ATOM  20750  O4  U   A 992     206.674 105.867  46.604  1.00142.95      A16S
ATOM  20751  C5  U   A 992     208.946 105.585  47.249  1.00142.95      A16S
ATOM  20752  C2* U   A 992     211.986 108.781  48.626  1.00 95.67      A16S
ATOM  20753  O2* U   A 992     211.993 110.194  48.565  1.00 95.67      A16S
ATOM  20754  C3* U   A 992     213.305 108.053  48.947  1.00 95.67      A16S
ATOM  20755  O3* U   A 992     214.324 108.793  49.650  1.00 95.67      A16S
ATOM  20756  P   G   A 993     215.049 110.070  48.963  1.00148.41      A16S
ATOM  20757  O1P G   A 993     216.063 110.534  49.937  1.00 85.15      A16S
ATOM  20758  O2P G   A 993     214.064 111.040  48.435  1.00 85.15      A16S
ATOM  20759  O5* G   A 993     215.845 109.448  47.726  1.00148.41      A16S
ATOM  20760  C5* G   A 993     215.993 110.172  46.476  1.00148.41      A16S
ATOM  20761  C4* G   A 993     216.854 109.381  45.514  1.00148.41      A16S
ATOM  20762  O4* G   A 993     216.327 108.036  45.423  1.00148.41      A16S
ATOM  20763  C1* G   A 993     216.496 107.542  44.110  1.00148.41      A16S
ATOM  20764  N9  G   A 993     215.223 106.984  43.654  1.00 85.15      A16S
ATOM  20765  C4  G   A 993     213.985 107.595  43.634  1.00 85.15      A16S
ATOM  20766  N3  G   A 993     213.713 108.876  43.984  1.00 85.15      A16S
ATOM  20767  C2  G   A 993     212.417 109.150  43.886  1.00 85.15      A16S
ATOM  20768  N2  G   A 993     211.960 110.380  44.189  1.00 85.15      A16S
ATOM  20769  N1  G   A 993     211.473 108.237  43.483  1.00 85.15      A16S
ATOM  20770  C6  G   A 993     211.737 106.916  43.125  1.00 85.15      A16S
ATOM  20771  O6  G   A 993     210.816 106.166  42.794  1.00 85.15      A16S
ATOM  20772  C5  G   A 993     213.108 106.617  43.211  1.00 85.15      A16S
ATOM  20773  N7  G   A 993     213.778 105.436  42.934  1.00 85.15      A16S
ATOM  20774  C8  G   A 993     215.025 105.702  43.200  1.00 85.15      A16S
ATOM  20775  C2* G   A 993     217.174 108.615  43.255  1.00148.41      A16S
ATOM  20776  O2* G   A 993     218.535 108.262  43.106  1.00148.41      A16S
ATOM  20777  C3* G   A 993     216.920 109.882  44.074  1.00148.41      A16S
ATOM  20778  O3* G   A 993     217.864 110.964  43.903  1.00148.41      A16S
ATOM  20779  P   A   A 994     219.454 110.735  44.136  1.00 96.83      A16S
ATOM  20780  O1P A   A 994     220.107 110.172  42.921  1.00 59.63      A16S
ATOM  20781  O2P A   A 994     219.647 110.057  45.442  1.00 59.63      A16S
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ATOM  20782  O5* A   A 994     220.007 112.218  44.283  1.00 96.83      A16S
ATOM  20783  C5* A   A 994     221.336 112.557  43.864  1.00 96.83      A16S
ATOM  20784  C4* A   A 994     221.275 113.471  42.668  1.00 96.83      A16S
ATOM  20785  O4* A   A 994     221.174 112.705  41.443  1.00 96.83      A16S
ATOM  20786  C1* A   A 994     220.354 113.399  40.511  1.00 96.83      A16S
ATOM  20787  N9  A   A 994     219.245 112.522  40.107  1.00 59.63      A16S
ATOM  20788  C4  A   A 994     218.099 112.910  39.453  1.00 59.63      A16S
ATOM  20789  N3  A   A 994     217.759 114.153  39.073  1.00 59.63      A16S
ATOM  20790  C2  A   A 994     216.588 114.146  38.445  1.00 59.63      A16S
ATOM  20791  N1  A   A 994     215.778 113.115  38.173  1.00 59.63      A16S
ATOM  20792  C6  A   A 994     216.149 111.876  38.572  1.00 59.63      A16S
ATOM  20793  N6  A   A 994     215.346 110.844  38.297  1.00 59.63      A16S
ATOM  20794  C5  A   A 994     217.369 111.749  39.252  1.00 59.63      A16S
ATOM  20795  N7  A   A 994     218.028 110.650  39.784  1.00 59.63      A16S
ATOM  20796  C8  A   A 994     219.132 111.157  40.277  1.00 59.63      A16S
ATOM  20797  C2* A   A 994     219.914 114.714  41.161  1.00 96.83      A16S
ATOM  20798  O2* A   A 994     220.751 115.765  40.718  1.00 96.83      A16S
ATOM  20799  C3* A   A 994     220.072 114.395  42.643  1.00 96.83      A16S
ATOM  20800  O3* A   A 994     220.274 115.536  43.457  1.00 96.83      A16S
ATOM  20801  P   C   A 995     219.058 116.101  44.343  1.00139.26      A16S
ATOM  20802  O1P C   A 995     219.625 116.741  45.553  1.00 54.18      A16S
ATOM  20803  O2P C   A 995     218.039 115.024  44.495  1.00 54.18      A16S
ATOM  20804  O5* C   A 995     218.468 117.266  43.436  1.00139.26      A16S
ATOM  20805  C5* C   A 995     217.184 117.827  43.710  1.00139.26      A16S
ATOM  20806  C4* C   A 995     216.611 118.432  42.459  1.00139.26      A16S
ATOM  20807  O4* C   A 995     216.752 117.493  41.363  1.00139.26      A16S
ATOM  20808  C1* C   A 995     215.545 117.435  40.621  1.00139.26      A16S
ATOM  20809  N1  C   A 995     214.944 116.097  40.848  1.00 54.18      A16S
ATOM  20810  C6  C   A 995     215.660 115.116  41.477  1.00 54.18      A16S
ATOM  20811  C2  C   A 995     213.630 115.834  40.405  1.00 54.18      A16S
ATOM  20812  O2  C   A 995     212.972 116.744  39.857  1.00 54.18      A16S
ATOM  20813  N3  C   A 995     213.111 114.595  40.590  1.00 54.18      A16S
ATOM  20814  C4  C   A 995     213.834 113.645  41.185  1.00 54.18      A16S
ATOM  20815  N4  C   A 995     213.289 112.434  41.318  1.00 54.18      A16S
ATOM  20816  C5  C   A 995     215.150 113.891  41.664  1.00 54.18      A16S
ATOM  20817  C2* C   A 995     214.669 118.586  41.114  1.00139.26      A16S
ATOM  20818  O2* C   A 995     214.943 119.763  40.379  1.00139.26      A16S
ATOM  20819  C3* C   A 995     215.124 118.695  42.554  1.00139.26      A16S
ATOM  20820  O3* C   A 995     214.828 119.933  43.154  1.00139.26      A16S
ATOM  20821  P   A   A 996     213.752 119.974  44.335  1.00151.32      A16S
ATOM  20822  O1P A   A 996     213.616 121.387  44.770  1.00 62.48      A16S
ATOM  20823  O2P A   A 996     214.138 118.922  45.319  1.00 62.48      A16S
ATOM  20824  O5* A   A 996     212.400 119.528  43.625  1.00151.32      A16S
ATOM  20825  C5* A   A 996     211.672 120.448  42.796  1.00151.32      A16S
ATOM  20826  C4* A   A 996     210.193 120.244  42.978  1.00151.32      A16S
ATOM  20827  O4* A   A 996     209.793 119.005  42.345  1.00151.32      A16S
ATOM  20828  C1* A   A 996     208.798 118.370  43.127  1.00151.32      A16S
ATOM  20829  N9  A   A 996     209.327 117.080  43.562  1.00 62.48      A16S
ATOM  20830  C4  A   A 996     208.621 115.904  43.672  1.00 62.48      A16S
ATOM  20831  N3  A   A 996     207.320 115.706  43.402  1.00 62.48      A16S
ATOM  20832  C2  A   A 996     206.978 114.437  43.625  1.00 62.48      A16S
ATOM  20833  N1  A   A 996     207.730 113.414  44.054  1.00 62.48      A16S
ATOM  20834  C6  A   A 996     209.035 113.637  44.315  1.00 62.48      A16S
ATOM  20835  N6  A   A 996     209.782 112.606  44.736  1.00 62.48      A16S
ATOM  20836  C5  A   A 996     209.527 114.957  44.120  1.00 62.48      A16S
ATOM  20837  N7  A   A 996     210.786 115.527  44.288  1.00 62.48      A16S
ATOM  20838  C8  A   A 996     210.613 116.782  43.945  1.00 62.48      A16S
ATOM  20839  C2* A   A 996     208.471 119.287  44.305  1.00151.32      A16S
ATOM  20840  O2* A   A 996     207.333 120.068  43.992  1.00151.32      A16S
ATOM  20841  C3* A   A 996     209.754 120.100  44.424  1.00151.32      A16S
ATOM  20842  O3* A   A 996     209.571 121.365  45.041  1.00151.32      A16S
ATOM  20843  P   U   A 997     209.715 121.503  46.636  1.00164.55      A16S
ATOM  20844  O1P U   A 997     209.991 122.940  46.887  1.00 80.52      A16S
ATOM  20845  O2P U   A 997     210.636 120.467  47.183  1.00 80.52      A16S
ATOM  20846  O5* U   A 997     208.261 121.150  47.175  1.00164.55      A16S
ATOM  20847  C5* U   A 997     207.140 121.992  46.877  1.00164.55      A16S
ATOM  20848  C4* U   A 997     205.856 121.281  47.218  1.00164.55      A16S
ATOM  20849  O4* U   A 997     205.650 120.174  46.299  1.00164.55      A16S
ATOM  20850  C1* U   A 997     204.970 119.121  46.968  1.00164.55      A16S
ATOM  20851  N1  U   A 997     205.810 117.913  46.963  1.00 80.52      A16S
ATOM  20852  C6  U   A 997     207.173 117.979  47.162  1.00 80.52      A16S
ATOM  20853  C2  U   A 997     205.176 116.689  46.792  1.00 80.52      A16S
ATOM  20854  O2  U   A 997     203.979 116.582  46.563  1.00 80.52      A16S
ATOM  20855  N3  U   A 997     205.997 115.590  46.895  1.00 80.52      A16S
ATOM  20856  C4  U   A 997     207.357 115.585  47.127  1.00 80.52      A16S
ATOM  20857  O4  U   A 997     207.945 114.508  47.254  1.00 80.52      A16S
ATOM  20858  C5  U   A 997     207.946 116.887  47.250  1.00 80.52      A16S
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ATOM  20859  C2* U   A 997     204.720 119.571  48.407  1.00164.55      A16S
ATOM  20860  O2* U   A 997     203.412 120.088  48.545  1.00164.55      A16S
ATOM  20861  C3* U   A 997     205.802 120.625  48.588  1.00164.55      A16S
ATOM  20862  O3* U   A 997     205.513 121.511  49.652  1.00164.55      A16S
ATOM  20863  P   G   A 998     205.939 121.101  51.146  1.00159.40      A16S
ATOM  20864  O1P G   A 998     205.484 122.200  52.032  1.00115.28      A16S
ATOM  20865  O2P G   A 998     207.366 120.698  51.147  1.00115.28      A16S
ATOM  20866  O5* G   A 998     205.066 119.804  51.447  1.00159.40      A16S
ATOM  20867  C5* G   A 998     203.634 119.884  51.447  1.00159.40      A16S
ATOM  20868  C4* G   A 998     203.017 118.533  51.716  1.00159.40      A16S
ATOM  20869  O4* G   A 998     203.323 117.613  50.636  1.00159.40      A16S
ATOM  20870  C1* G   A 998     203.383 116.289  51.143  1.00159.40      A16S
ATOM  20871  N9  G   A 998     204.729 115.768  50.947  1.00115.28      A16S
ATOM  20872  C4  G   A 998     205.089 114.441  50.923  1.00115.28      A16S
ATOM  20873  N3  G   A 998     204.250 113.388  51.031  1.00115.28      A16S
ATOM  20874  C2  G   A 998     204.895 112.234  50.994  1.00115.28      A16S
ATOM  20875  N2  G   A 998     204.216 111.086  51.083  1.00115.28      A16S
ATOM  20876  N1  G   A 998     206.254 112.119  50.866  1.00115.28      A16S
ATOM  20877  C6  G   A 998     207.140 113.184  50.753  1.00115.28      A16S
ATOM  20878  O6  G   A 998     208.356 112.965  50.646  1.00115.28      A16S
ATOM  20879  C5  G   A 998     206.459 114.436  50.786  1.00115.28      A16S
ATOM  20880  N7  G   A 998     206.950 115.734  50.703  1.00115.28      A16S
ATOM  20881  C8  G   A 998     205.889 116.489  50.795  1.00115.28      A16S
ATOM  20882  C2* G   A 998     203.084 116.354  52.640  1.00159.40      A16S
ATOM  20883  O2* G   A 998     201.717 116.067  52.861  1.00159.40      A16S
ATOM  20884  C3* G   A 998     203.470 117.793  52.964  1.00159.40      A16S
ATOM  20885  O3* G   A 998     202.858 118.265  54.155  1.00159.40      A16S
ATOM  20886  P   C   A 999     203.540 117.934  55.573  1.00169.58      A16S
ATOM  20887  O1P C   A 999     202.817 118.727  56.600  1.00196.88      A16S
ATOM  20888  O2P C   A 999     205.014 118.079  55.439  1.00196.88      A16S
ATOM  20889  O5* C   A 999     203.205 116.391  55.791  1.00169.58      A16S
ATOM  20890  C5* C   A 999     201.842 115.934  55.743  1.00169.58      A16S
ATOM  20891  C4* C   A 999     201.766 114.432  55.887  1.00169.58      A16S
ATOM  20892  O4* C   A 999     202.341 113.772  54.730  1.00169.58      A16S
ATOM  20893  C1* C   A 999     202.822 112.494  55.114  1.00169.58      A16S
ATOM  20894  N1  C   A 999     204.227 112.337  54.691  1.00196.88      A16S
ATOM  20895  C6  C   A 999     205.131 113.355  54.833  1.00196.88      A16S
ATOM  20896  C2  C   A 999     204.630 111.105  54.149  1.00196.88      A16S
ATOM  20897  O2  C   A 999     203.789 110.202  54.010  1.00196.88      A16S
ATOM  20898  N3  C   A 999     205.924 110.932  53.792  1.00196.88      A16S
ATOM  20899  C4  C   A 999     206.799 111.926  53.948  1.00196.88      A16S
ATOM  20900  N4  C   A 999     208.067 111.704  53.592  1.00196.88      A16S
ATOM  20901  C5  C   A 999     206.415 113.194  54.480  1.00196.88      A16S
ATOM  20902  C2* C   A 999     202.636 112.351  56.627  1.00169.58      A16S
ATOM  20903  O2* C   A 999     201.485 111.569  56.878  1.00169.58      A16S
ATOM  20904  C3* C   A 999     202.483 113.804  57.070  1.00169.58      A16S
ATOM  20905  O3* C   A 999     201.725 113.916  58.271  1.00169.58      A16S
ATOM  20906  P   U  A1000     202.472 113.856  59.694  1.00195.07      A16S
ATOM  20907  O1P U  A1000     201.450 114.164  60.723  1.00173.63      A16S
ATOM  20908  O2P U  A1000     203.713 114.672  59.628  1.00173.63      A16S
ATOM  20909  O5* U  A1000     202.883 112.324  59.845  1.00195.07      A16S
ATOM  20910  C5* U  A1000     201.877 111.292  59.869  1.00195.07      A16S
ATOM  20911  C4* U  A1000     202.517 109.921  59.843  1.00195.07      A16S
ATOM  20912  O4* U  A1000     203.224 109.727  58.590  1.00195.07      A16S
ATOM  20913  C1* U  A1000     204.362 108.908  58.805  1.00195.07      A16S
ATOM  20914  N1  U  A1000     205.568 109.631  58.361  1.00173.63      A16S
ATOM  20915  C6  U  A1000     205.626 111.011  58.363  1.00173.63      A16S
ATOM  20916  C2  U  A1000     206.655 108.877  57.936  1.00173.63      A16S
ATOM  20917  O2  U  A1000     206.656 107.655  57.928  1.00173.63      A16S
ATOM  20918  N3  U  A1000     207.744 109.610  57.525  1.00173.63      A16S
ATOM  20919  C4  U  A1000     207.864 110.988  57.499  1.00173.63      A16S
ATOM  20920  O4  U  A1000     208.912 111.501  57.096  1.00173.63      A16S
ATOM  20921  C5  U  A1000     206.706 111.694  57.959  1.00173.63      A16S
ATOM  20922  C2* U  A1000     204.389 108.522  60.286  1.00195.07      A16S
ATOM  20923  O2* U  A1000     203.812 107.239  60.441  1.00195.07      A16S
ATOM  20924  C3* U  A1000     203.556 109.636  60.916  1.00195.07      A16S
ATOM  20925  O3* U  A1000     202.949 109.235  62.141  1.00195.07      A16S
ATOM  20926  P   A  A1001     203.642 109.624  63.543  1.00201.26      A16S
ATOM  20927  O1P A  A1001     202.703 109.224  64.619  1.00201.26      A16S
ATOM  20928  O2P A  A1001     204.125 111.032  63.475  1.00201.26      A16S
ATOM  20929  O5* A  A1001     204.914 108.668  63.625  1.00201.26      A16S
ATOM  20930  C5* A  A1001     204.790 107.247  63.412  1.00201.26      A16S
ATOM  20931  C4* A  A1001     206.126 106.657  63.024  1.00201.26      A16S
ATOM  20932  O4* A  A1001     206.594 107.303  61.806  1.00201.26      A16S
ATOM  20933  C1* A  A1001     208.003 107.474  61.859  1.00201.26      A16S
ATOM  20934  N9  A  A1001     208.295 108.913  61.836  1.00201.26      A16S
ATOM  20935  C4  A  A1001     209.178 109.568  61.007  1.00201.26      A16S
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ATOM  20936  N3  A   A1001     209.950 109.032  60.046  1.00201.26      A16S
ATOM  20937  C2  A   A1001     210.676 109.975  59.446  1.00201.26      A16S
ATOM  20938  N1  A   A1001     210.717 111.294  59.680  1.00201.26      A16S
ATOM  20939  C6  A   A1001     209.929 111.801  60.653  1.00201.26      A16S
ATOM  20940  N6  A   A1001     209.968 113.115  60.887  1.00201.26      A16S
ATOM  20941  C5  A   A1001     209.111 110.905  61.364  1.00201.26      A16S
ATOM  20942  N7  A   A1001     208.205 111.094  62.398  1.00201.26      A16S
ATOM  20943  C8  A   A1001     207.749 109.889  62.640  1.00201.26      A16S
ATOM  20944  C2* A   A1001     208.493 106.799  63.141  1.00201.26      A16S
ATOM  20945  O2* A   A1001     208.884 105.468  62.856  1.00201.26      A16S
ATOM  20946  C3* A   A1001     207.253 106.874  64.022  1.00201.26      A16S
ATOM  20947  O3* A   A1001     207.260 105.916  65.075  1.00201.26      A16S
ATOM  20948  P   G   A1002     207.940 106.293  66.486  1.00201.26      A16S
ATOM  20949  O1P G   A1002     207.320 105.416  67.513  1.00201.26      A16S
ATOM  20950  O2P G   A1002     207.894 107.769  66.663  1.00201.26      A16S
ATOM  20951  O5* G   A1002     209.468 105.866  66.303  1.00201.26      A16S
ATOM  20952  C5* G   A1002     209.897 104.518  66.592  1.00201.26      A16S
ATOM  20953  C4* G   A1002     211.351 104.314  66.214  1.00201.26      A16S
ATOM  20954  O4* G   A1002     211.509 104.321  64.771  1.00201.26      A16S
ATOM  20955  C1* G   A1002     212.795 104.818  64.438  1.00201.26      A16S
ATOM  20956  N9  G   A1002     212.641 105.969  63.551  1.00201.26      A16S
ATOM  20957  C4  G   A1002     213.591 106.467  62.692  1.00201.26      A16S
ATOM  20958  N3  G   A1002     214.838 105.977  62.515  1.00201.26      A16S
ATOM  20959  C2  G   A1002     215.523 106.679  61.629  1.00201.26      A16S
ATOM  20960  N2  G   A1002     216.785 106.333  61.333  1.00201.26      A16S
ATOM  20961  N1  G   A1002     215.023 107.773  60.968  1.00201.26      A16S
ATOM  20962  C6  G   A1002     213.743 108.292  61.132  1.00201.26      A16S
ATOM  20963  O6  G   A1002     213.394 109.286  60.484  1.00201.26      A16S
ATOM  20964  C5  G   A1002     212.999 107.551  62.081  1.00201.26      A16S
ATOM  20965  N7  G   A1002     211.704 107.731  62.544  1.00201.26      A16S
ATOM  20966  C8  G   A1002     211.536 106.772  63.412  1.00201.26      A16S
ATOM  20967  C2* G   A1002     213.519 105.167  65.740  1.00201.26      A16S
ATOM  20968  O2* G   A1002     214.390 104.111  66.101  1.00201.26      A16S
ATOM  20969  C3* G   A1002     212.358 105.338  66.714  1.00201.26      A16S
ATOM  20970  O3* G   A1002     212.764 105.079  68.051  1.00201.26      A16S
ATOM  20971  P   G   A1003     213.294 106.289  68.965  1.00200.73      A16S
ATOM  20972  O1P G   A1003     213.517 105.736  70.327  1.00201.20      A16S
ATOM  20973  O2P G   A1003     212.376 107.447  68.784  1.00201.20      A16S
ATOM  20974  O5* G   A1003     214.708 106.669  68.330  1.00200.73      A16S
ATOM  20975  C5* G   A1003     215.871 105.838  68.542  1.00200.73      A16S
ATOM  20976  C4* G   A1003     217.023 106.305  67.676  1.00200.73      A16S
ATOM  20977  O4* G   A1003     216.629 106.216  66.281  1.00200.73      A16S
ATOM  20978  C1* G   A1003     217.213 107.281  65.546  1.00200.73      A16S
ATOM  20979  N9  G   A1003     216.143 108.112  64.993  1.00201.20      A16S
ATOM  20980  C4  G   A1003     216.280 109.074  64.017  1.00201.20      A16S
ATOM  20981  N3  G   A1003     217.425 109.401  63.381  1.00201.20      A16S
ATOM  20982  C2  G   A1003     217.243 110.373  62.505  1.00201.20      A16S
ATOM  20983  N2  G   A1003     218.281 110.823  61.786  1.00201.20      A16S
ATOM  20984  N1  G   A1003     216.032 110.977  62.270  1.00201.20      A16S
ATOM  20985  C6  G   A1003     214.840 110.657  62.911  1.00201.20      A16S
ATOM  20986  O6  G   A1003     213.801 111.266  62.623  1.00201.20      A16S
ATOM  20987  C5  G   A1003     215.021 109.614  63.855  1.00201.20      A16S
ATOM  20988  N7  G   A1003     214.107 108.995  64.698  1.00201.20      A16S
ATOM  20989  C8  G   A1003     214.814 108.112  65.350  1.00201.20      A16S
ATOM  20990  C2* G   A1003     218.102 108.074  66.506  1.00200.73      A16S
ATOM  20991  O2* G   A1003     219.441 107.623  66.413  1.00200.73      A16S
ATOM  20992  C3* G   A1003     217.466 107.753  67.852  1.00200.73      A16S
ATOM  20993  O3* G   A1003     218.392 107.930  68.918  1.00200.73      A16S
ATOM  20994  P   G   A1003A    218.544 109.379  69.609  1.00201.26      A16S
ATOM  20995  O1P G   A1003A    219.410 109.203  70.801  1.00155.13      A16S
ATOM  20996  O2P G   A1003A    217.193 109.977  69.766  1.00155.13      A16S
ATOM  20997  O5* G   A1003A    219.337 110.256  68.540  1.00201.26      A16S
ATOM  20998  C5* G   A1003A    220.717 109.983  68.228  1.00201.26      A16S
ATOM  20999  C4* G   A1003A    221.154 110.791  67.027  1.00201.26      A16S
ATOM  21000  O4* G   A1003A    220.219 110.541  65.942  1.00201.26      A16S
ATOM  21001  C1* G   A1003A    220.066 111.713  65.158  1.00201.26      A16S
ATOM  21002  N9  G   A1003A    218.666 112.129  65.192  1.00155.13      A16S
ATOM  21003  C4  G   A1003A    218.012 112.863  64.231  1.00155.13      A16S
ATOM  21004  N3  G   A1003A    218.545 113.307  63.075  1.00155.13      A16S
ATOM  21005  C2  G   A1003A    217.666 113.974  62.351  1.00155.13      A16S
ATOM  21006  N2  G   A1003A    218.024 114.470  61.164  1.00155.13      A16S
ATOM  21007  N1  G   A1003A    216.370 114.199  62.736  1.00155.13      A16S
ATOM  21008  C6  G   A1003A    215.801 113.755  63.925  1.00155.13      A16S
ATOM  21009  O6  G   A1003A    214.618 114.018  64.178  1.00155.13      A16S
ATOM  21010  C5  G   A1003A    216.730 113.028  64.706  1.00155.13      A16S
ATOM  21011  N7  G   A1003A    216.577 112.408  65.938  1.00155.13      A16S
ATOM  21012  C8  G   A1003A    217.747 111.887  66.186  1.00155.13      A16S
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ATOM  21013  C2* G   A1003A   220.985 112.784  65.741  1.00201.26      A16S
ATOM  21014  O2* G   A1003A   222.201 112.820  65.018  1.00201.26      A16S
ATOM  21015  C3* G   A1003A   221.151 112.307  67.178  1.00201.26      A16S
ATOM  21016  O3* G   A1003A   222.355 112.819  67.745  1.00201.26      A16S
ATOM  21017  P    A   A1004    222.335 114.233  68.520  1.00179.29      A16S
ATOM  21018  O1P A   A1004    223.727 114.748  68.528  1.00200.18      A16S
ATOM  21019  O2P A   A1004    221.624 114.027  69.807  1.00200.18      A16S
ATOM  21020  O5* A   A1004    221.433 115.186  67.606  1.00179.29      A16S
ATOM  21021  C5* A   A1004    222.002 115.999  66.545  1.00179.29      A16S
ATOM  21022  C4* A   A1004    221.297 115.711  65.237  1.00179.29      A16S
ATOM  21023  O4* A   A1004    219.865 115.858  65.408  1.00179.29      A16S
ATOM  21024  C1* A   A1004    219.278 116.265  64.185  1.00179.29      A16S
ATOM  21025  N9   A   A1004    218.551 117.517  64.408  1.00200.18      A16S
ATOM  21026  C4   A   A1004    217.185 117.660  64.488  1.00200.18      A16S
ATOM  21027  N3   A   A1004    216.254 116.695  64.387  1.00200.18      A16S
ATOM  21028  C2   A   A1004    215.032 117.205  64.522  1.00200.18      A16S
ATOM  21029  N1   A   A1004    214.663 118.473  64.731  1.00200.18      A16S
ATOM  21030  C6   A   A1004    215.623 119.419  64.822  1.00200.18      A16S
ATOM  21031  N6   A   A1004    215.257 120.686  65.019  1.00200.18      A16S
ATOM  21032  C5   A   A1004    216.959 119.009  64.698  1.00200.18      A16S
ATOM  21033  N7   A   A1004    218.158 119.707  64.748  1.00200.18      A16S
ATOM  21034  C8   A   A1004    219.069 118.782  64.573  1.00200.18      A16S
ATOM  21035  C2* A   A1004    220.396 116.391  63.149  1.00179.29      A16S
ATOM  21036  O2* A   A1004    220.460 115.211  62.373  1.00179.29      A16S
ATOM  21037  C3* A   A1004    221.628 116.576  64.030  1.00179.29      A16S
ATOM  21038  O3* A   A1004    222.792 116.123  63.348  1.00179.29      A16S
ATOM  21039  P    A   A1005    223.618 117.134  62.402  1.00201.26      A16S
ATOM  21040  O1P A   A1005    223.808 116.456  61.093  1.00195.31      A16S
ATOM  21041  O2P A   A1005    224.804 117.604  63.161  1.00195.31      A16S
ATOM  21042  O5* A   A1005    222.658 118.391  62.188  1.00201.26      A16S
ATOM  21043  C5* A   A1005    221.599 118.383  61.203  1.00201.26      A16S
ATOM  21044  C4* A   A1005    221.347 119.788  60.710  1.00201.26      A16S
ATOM  21045  O4* A   A1005    221.209 120.649  61.869  1.00201.26      A16S
ATOM  21046  C1* A   A1005    221.873 121.877  61.641  1.00201.26      A16S
ATOM  21047  N9   A   A1005    222.924 122.013  62.654  1.00195.31      A16S
ATOM  21048  C4   A   A1005    223.320 123.173  63.278  1.00195.31      A16S
ATOM  21049  N3   A   A1005    222.837 124.412  63.085  1.00195.31      A16S
ATOM  21050  C2   A   A1005    223.463 125.288  63.868  1.00195.31      A16S
ATOM  21051  N1   A   A1005    224.443 125.082  64.756  1.00195.31      A16S
ATOM  21052  C6   A   A1005    224.907 123.825  64.926  1.00195.31      A16S
ATOM  21053  N6   A   A1005    225.887 123.620  65.809  1.00195.31      A16S
ATOM  21054  C5   A   A1005    224.325 122.804  64.155  1.00195.31      A16S
ATOM  21055  N7   A   A1005    224.562 121.439  64.085  1.00195.31      A16S
ATOM  21056  C8   A   A1005    223.711 121.018  63.183  1.00195.31      A16S
ATOM  21057  C2* A   A1005    222.384 121.875  60.196  1.00201.26      A16S
ATOM  21058  O2* A   A1005    221.442 122.538  59.373  1.00201.26      A16S
ATOM  21059  C3* A   A1005    222.493 120.381  59.901  1.00201.26      A16S
ATOM  21060  O3* A   A1005    222.313 120.100  58.509  1.00201.26      A16S
ATOM  21061  P    C   A1006    223.340 119.123  57.739  1.00201.26      A16S
ATOM  21062  O1P C   A1006    222.954 119.149  56.306  1.00192.07      A16S
ATOM  21063  O2P C   A1006    223.391 117.822  58.455  1.00192.07      A16S
ATOM  21064  O5* C   A1006    224.762 119.833  57.883  1.00201.26      A16S
ATOM  21065  C5* C   A1006    224.914 121.256  57.673  1.00201.26      A16S
ATOM  21066  C4* C   A1006    226.110 121.776  58.442  1.00201.26      A16S
ATOM  21067  O4* C   A1006    225.981 121.353  59.825  1.00201.26      A16S
ATOM  21068  C1* C   A1006    227.257 121.034  60.351  1.00201.26      A16S
ATOM  21069  N1   C   A1006    227.250 119.619  60.766  1.00192.07      A16S
ATOM  21070  C6   C   A1006    226.836 118.634  59.909  1.00192.07      A16S
ATOM  21071  C2   C   A1006    227.679 119.295  62.055  1.00192.07      A16S
ATOM  21072  O2   C   A1006    228.047 120.206  62.815  1.00192.07      A16S
ATOM  21073  N3   C   A1006    227.684 117.998  62.442  1.00192.07      A16S
ATOM  21074  C4   C   A1006    227.284 117.046  61.597  1.00192.07      A16S
ATOM  21075  N4   C   A1006    227.312 115.780  62.023  1.00192.07      A16S
ATOM  21076  C5   C   A1006    226.838 117.348  60.280  1.00192.07      A16S
ATOM  21077  C2* C   A1006    228.304 121.343  59.279  1.00201.26      A16S
ATOM  21078  O2* C   A1006    228.859 122.624  59.507  1.00201.26      A16S
ATOM  21079  C3* C   A1006    227.474 121.254  58.002  1.00201.26      A16S
ATOM  21080  O3* C   A1006    228.034 122.040  56.950  1.00201.26      A16S
ATOM  21081  P    C   A1007    229.236 121.444  56.059  1.00201.26      A16S
ATOM  21082  O1P C   A1007    229.558 122.452  55.011  1.00148.35      A16S
ATOM  21083  O2P C   A1007    228.874 120.055  55.657  1.00148.35      A16S
ATOM  21084  O5* C   A1007    230.470 121.371  57.068  1.00201.26      A16S
ATOM  21085  C5* C   A1007    231.163 122.567  57.488  1.00201.26      A16S
ATOM  21086  C4* C   A1007    232.283 122.220  58.444  1.00201.26      A16S
ATOM  21087  O4* C   A1007    231.725 121.625  59.642  1.00201.26      A16S
ATOM  21088  C1* C   A1007    232.616 120.647  60.148  1.00201.26      A16S
ATOM  21089  N1   C   A1007    231.901 119.360  60.241  1.00148.35      A16S
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ATOM  21090  C6  C  A1007     231.402 118.750  59.122  1.00148.35      A16S
ATOM  21091  C2  C  A1007     231.747 118.761  61.499  1.00148.35      A16S
ATOM  21092  O2  C  A1007     232.194 119.340  62.507  1.00148.35      A16S
ATOM  21093  N3  C  A1007     231.112 117.568  61.586  1.00148.35      A16S
ATOM  21094  C4  C  A1007     230.639 116.979  60.485  1.00148.35      A16S
ATOM  21095  N4  C  A1007     230.029 115.798  60.619  1.00148.35      A16S
ATOM  21096  C5  C  A1007     230.772 117.572  59.198  1.00148.35      A16S
ATOM  21097  C2* C  A1007     233.847 120.604  59.237  1.00201.26      A16S
ATOM  21098  O2* C  A1007     234.888 121.365  59.813  1.00201.26      A16S
ATOM  21099  C3* C  A1007     233.304 121.206  57.944  1.00201.26      A16S
ATOM  21100  O3* C  A1007     234.329 121.829  57.174  1.00201.26      A16S
ATOM  21101  P   C  A1008     234.977 121.049  55.923  1.00201.26      A16S
ATOM  21102  O1P C  A1008     235.831 122.022  55.193  1.00188.45      A16S
ATOM  21103  O2P C  A1008     233.898 120.334  55.195  1.00188.45      A16S
ATOM  21104  O5* C  A1008     235.926 119.957  56.588  1.00201.26      A16S
ATOM  21105  C5* C  A1008     237.111 120.345  57.307  1.00201.26      A16S
ATOM  21106  C4* C  A1008     237.690 119.157  58.036  1.00201.26      A16S
ATOM  21107  O4* C  A1008     236.678 118.618  58.925  1.00201.26      A16S
ATOM  21108  C1* C  A1008     236.805 117.209  58.999  1.00201.26      A16S
ATOM  21109  N1  C  A1008     235.538 116.588  58.568  1.00188.45      A16S
ATOM  21110  C6  C  A1008     234.743 117.185  57.629  1.00188.45      A16S
ATOM  21111  C2  C  A1008     235.164 115.361  59.133  1.00188.45      A16S
ATOM  21112  O2  C  A1008     235.893 114.844  59.992  1.00188.45      A16S
ATOM  21113  N3  C  A1008     234.018 114.771  58.729  1.00188.45      A16S
ATOM  21114  C4  C  A1008     233.256 115.357  57.805  1.00188.45      A16S
ATOM  21115  N4  C  A1008     232.138 114.731  57.428  1.00188.45      A16S
ATOM  21116  C5  C  A1008     233.606 116.611  57.222  1.00188.45      A16S
ATOM  21117  C2* C  A1008     237.992 116.794  58.128  1.00201.26      A16S
ATOM  21118  O2* C  A1008     239.136 116.621  58.940  1.00201.26      A16S
ATOM  21119  C3* C  A1008     238.107 117.976  57.170  1.00201.26      A16S
ATOM  21120  O3* C  A1008     239.432 118.133  56.664  1.00201.26      A16S
ATOM  21121  P   G  A1009     240.070 116.987  55.731  1.00187.69      A16S
ATOM  21122  O1P G  A1009     241.332 117.516  55.156  1.00191.93      A16S
ATOM  21123  O2P G  A1009     239.011 116.474  54.824  1.00191.93      A16S
ATOM  21124  O5* G  A1009     240.453 115.832  56.758  1.00187.69      A16S
ATOM  21125  C5* G  A1009     240.687 114.493  56.305  1.00187.69      A16S
ATOM  21126  C4* G  A1009     240.820 113.557  57.482  1.00187.69      A16S
ATOM  21127  O4* G  A1009     239.633 113.628  58.318  1.00187.69      A16S
ATOM  21128  C1* G  A1009     239.311 112.335  58.814  1.00187.69      A16S
ATOM  21129  N9  G  A1009     237.961 111.991  58.361  1.00191.93      A16S
ATOM  21130  C4  G  A1009     237.333 110.763  58.465  1.00191.93      A16S
ATOM  21131  N3  G  A1009     237.846 109.651  59.034  1.00191.93      A16S
ATOM  21132  C2  G  A1009     237.005 108.627  58.968  1.00191.93      A16S
ATOM  21133  N2  G  A1009     237.349 107.442  59.496  1.00191.93      A16S
ATOM  21134  N1  G  A1009     235.764 108.689  58.382  1.00191.93      A16S
ATOM  21135  C6  G  A1009     235.215 109.819  57.787  1.00191.93      A16S
ATOM  21136  O6  G  A1009     234.085 109.762  57.279  1.00191.93      A16S
ATOM  21137  C5  G  A1009     236.102 110.930  57.862  1.00191.93      A16S
ATOM  21138  N7  G  A1009     235.946 112.234  57.411  1.00191.93      A16S
ATOM  21139  C8  G  A1009     237.066 112.825  57.730  1.00191.93      A16S
ATOM  21140  C2* G  A1009     240.393 111.367  58.321  1.00187.69      A16S
ATOM  21141  O2* G  A1009     241.359 111.186  59.338  1.00187.69      A16S
ATOM  21142  C3* G  A1009     240.930 112.095  57.091  1.00187.69      A16S
ATOM  21143  O3* G  A1009     242.278 111.768  56.766  1.00187.69      A16S
ATOM  21144  P   G  A1010     242.590 110.864  55.471  1.00125.70      A16S
ATOM  21145  O1P G  A1010     244.041 110.995  55.182  1.00182.62      A16S
ATOM  21146  O2P G  A1010     241.602 111.191  54.411  1.00182.62      A16S
ATOM  21147  O5* G  A1010     242.313 109.381  55.980  1.00125.70      A16S
ATOM  21148  C5* G  A1010     242.992 108.873  57.140  1.00125.70      A16S
ATOM  21149  C4* G  A1010     242.438 107.529  57.527  1.00125.70      A16S
ATOM  21150  O4* G  A1010     241.091 107.674  58.039  1.00125.70      A16S
ATOM  21151  C1* G  A1010     240.324 106.532  57.691  1.00125.70      A16S
ATOM  21152  N9  G  A1010     239.162 106.963  56.917  1.00182.62      A16S
ATOM  21153  C4  G  A1010     238.045 106.208  56.640  1.00182.62      A16S
ATOM  21154  N3  G  A1010     237.827 104.936  57.040  1.00182.62      A16S
ATOM  21155  C2  G  A1010     236.668 104.475  56.607  1.00182.62      A16S
ATOM  21156  N2  G  A1010     236.294 103.225  56.909  1.00182.62      A16S
ATOM  21157  N1  G  A1010     235.789 105.204  55.845  1.00182.62      A16S
ATOM  21158  C6  G  A1010     235.991 106.515  55.423  1.00182.62      A16S
ATOM  21159  O6  G  A1010     235.130 107.083  54.739  1.00182.62      A16S
ATOM  21160  C5  G  A1010     237.233 107.022  55.877  1.00182.62      A16S
ATOM  21161  N7  G  A1010     237.824 108.263  55.682  1.00182.62      A16S
ATOM  21162  C8  G  A1010     238.963 108.183  56.315  1.00182.62      A16S
ATOM  21163  C2* G  A1010     241.230 105.577  56.912  1.00125.70      A16S
ATOM  21164  O2* G  A1010     241.717 104.581  57.789  1.00125.70      A16S
ATOM  21165  C3* G  A1010     242.311 106.524  56.398  1.00125.70      A16S
ATOM  21166  O3* G  A1010     243.547 105.875  56.137  1.00125.70      A16S
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ATOM  21167  P    G   A1011     243.849 105.310  54.664  1.00136.47      A16S
ATOM  21168  O1P  G   A1011     245.274 104.892  54.629  1.00142.06      A16S
ATOM  21169  O2P  G   A1011     243.347 106.296  53.669  1.00142.06      A16S
ATOM  21170  O5*  G   A1011     242.948 103.999  54.580  1.00136.47      A16S
ATOM  21171  C5*  G   A1011     243.097 102.946  55.552  1.00136.47      A16S
ATOM  21172  C4*  G   A1011     241.982 101.937  55.417  1.00136.47      A16S
ATOM  21173  O4*  G   A1011     240.718 102.526  55.822  1.00136.47      A16S
ATOM  21174  C1*  G   A1011     239.668 102.000  55.025  1.00136.47      A16S
ATOM  21175  N9   G   A1011     239.000 103.109  54.341  1.00142.06      A16S
ATOM  21176  C4   G   A1011     237.838 103.041  53.597  1.00142.06      A16S
ATOM  21177  N3   G   A1011     237.112 101.927  53.353  1.00142.06      A16S
ATOM  21178  C2   G   A1011     236.053 102.180  52.602  1.00142.06      A16S
ATOM  21179  N2   G   A1011     235.227 101.182  52.262  1.00142.06      A16S
ATOM  21180  N1   G   A1011     235.726 103.428  52.130  1.00142.06      A16S
ATOM  21181  C6   G   A1011     236.455 104.590  52.365  1.00142.06      A16S
ATOM  21182  O6   G   A1011     236.072 105.669  51.887  1.00142.06      A16S
ATOM  21183  C5   G   A1011     237.601 104.332  53.169  1.00142.06      A16S
ATOM  21184  N7   G   A1011     238.592 105.191  53.626  1.00142.06      A16S
ATOM  21185  C8   G   A1011     239.398 104.425  54.311  1.00142.06      A16S
ATOM  21186  C2*  G   A1011     240.279 100.966  54.073  1.00136.47      A16S
ATOM  21187  O2*  G   A1011     240.132  99.667  54.618  1.00136.47      A16S
ATOM  21188  C3*  G   A1011     241.733 101.422  54.012  1.00136.47      A16S
ATOM  21189  O3*  G   A1011     242.636 100.379  53.665  1.00136.47      A16S
ATOM  21190  P    U   A1012     243.300 100.363  52.201  1.00138.47      A16S
ATOM  21191  O1P  U   A1012     244.360  99.322  52.198  1.00 95.00      A16S
ATOM  21192  O2P  U   A1012     243.643 101.764  51.827  1.00 95.00      A16S
ATOM  21193  O5*  U   A1012     242.116  99.867  51.256  1.00138.47      A16S
ATOM  21194  C5*  U   A1012     241.633  98.509  51.327  1.00138.47      A16S
ATOM  21195  C4*  U   A1012     240.441  98.320  50.414  1.00138.47      A16S
ATOM  21196  O4*  U   A1012     239.306  99.069  50.925  1.00138.47      A16S
ATOM  21197  C1*  U   A1012     238.527  99.553  49.842  1.00138.47      A16S
ATOM  21198  N1   U   A1012     238.521 101.024  49.879  1.00 95.00      A16S
ATOM  21199  C6   U   A1012     239.612 101.746  50.308  1.00 95.00      A16S
ATOM  21200  C2   U   A1012     237.377 101.666  49.449  1.00 95.00      A16S
ATOM  21201  O2   U   A1012     236.387 101.067  49.064  1.00 95.00      A16S
ATOM  21202  N3   U   A1012     237.431 103.039  49.481  1.00 95.00      A16S
ATOM  21203  C4   U   A1012     238.488 103.824  49.891  1.00 95.00      A16S
ATOM  21204  O4   U   A1012     238.378 105.058  49.870  1.00 95.00      A16S
ATOM  21205  C5   U   A1012     239.636 103.085  50.326  1.00 95.00      A16S
ATOM  21206  C2*  U   A1012     239.159  99.041  48.551  1.00138.47      A16S
ATOM  21207  O2*  U   A1012     238.520  97.848  48.145  1.00138.47      A16S
ATOM  21208  C3*  U   A1012     240.600  98.824  48.989  1.00138.47      A16S
ATOM  21209  O3*  U   A1012     241.297  97.931  48.137  1.00138.47      A16S
ATOM  21210  P    G   A1013     242.164  98.527  46.923  1.00150.17      A16S
ATOM  21211  O1P  G   A1013     242.656  97.368  46.133  1.00116.96      A16S
ATOM  21212  O2P  G   A1013     243.138  99.507  47.475  1.00116.96      A16S
ATOM  21213  O5*  G   A1013     241.093  99.333  46.054  1.00150.17      A16S
ATOM  21214  C5*  G   A1013     240.009  98.642  45.395  1.00150.17      A16S
ATOM  21215  C4*  G   A1013     239.193  99.594  44.542  1.00150.17      A16S
ATOM  21216  O4*  G   A1013     238.368 100.455  45.371  1.00150.17      A16S
ATOM  21217  C1*  G   A1013     238.200 101.710  44.732  1.00150.17      A16S
ATOM  21218  N9   G   A1013     238.761 102.746  45.589  1.00116.96      A16S
ATOM  21219  C4   G   A1013     238.282 104.026  45.754  1.00116.96      A16S
ATOM  21220  N3   G   A1013     237.184 104.549  45.164  1.00116.96      A16S
ATOM  21221  C2   G   A1013     236.985 105.813  45.515  1.00116.96      A16S
ATOM  21222  N2   G   A1013     235.936 106.492  45.024  1.00116.96      A16S
ATOM  21223  N1   G   A1013     237.799 106.506  46.375  1.00116.96      A16S
ATOM  21224  C6   G   A1013     238.932 105.990  46.997  1.00116.96      A16S
ATOM  21225  O6   G   A1013     239.593 106.703  47.765  1.00116.96      A16S
ATOM  21226  C5   G   A1013     239.159 104.633  46.626  1.00116.96      A16S
ATOM  21227  N7   G   A1013     240.164 103.753  47.006  1.00116.96      A16S
ATOM  21228  C8   G   A1013     239.884 102.648  46.372  1.00116.96      A16S
ATOM  21229  C2*  G   A1013     238.941 101.657  43.397  1.00150.17      A16S
ATOM  21230  O2*  G   A1013     238.027 101.347  42.365  1.00150.17      A16S
ATOM  21231  C3*  G   A1013     239.962 100.554  43.652  1.00150.17      A16S
ATOM  21232  O3*  G   A1013     240.426  99.953  42.451  1.00150.17      A16S
ATOM  21233  P    A   A1014     241.608 100.662  41.622  1.00111.19      A16S
ATOM  21234  O1P  A   A1014     241.889  99.822  40.429  1.00106.51      A16S
ATOM  21235  O2P  A   A1014     242.708 100.986  42.561  1.00106.51      A16S
ATOM  21236  O5*  A   A1014     240.952 102.038  41.154  1.00111.19      A16S
ATOM  21237  C5*  A   A1014     241.701 102.989  40.384  1.00111.19      A16S
ATOM  21238  C4*  A   A1014     240.839 103.578  39.291  1.00111.19      A16S
ATOM  21239  O4*  A   A1014     240.358 102.518  38.432  1.00111.19      A16S
ATOM  21240  C1*  A   A1014     239.061 102.838  37.963  1.00111.19      A16S
ATOM  21241  N9   A   A1014     238.164 101.738  38.308  1.00106.51      A16S
ATOM  21242  C4   A   A1014     237.053 101.351  37.601  1.00106.51      A16S
ATOM  21243  N3   A   A1014     236.547 101.925  36.495  1.00106.51      A16S
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ATOM  21244  C2  A  A1014     235.476 101.264  36.077  1.00106.51      A16S
ATOM  21245  N1  A  A1014     234.899 100.172  36.596  1.00106.51      A16S
ATOM  21246  C6  A  A1014     235.439  99.621  37.706  1.00106.51      A16S
ATOM  21247  N6  A  A1014     234.881  98.524  38.221  1.00106.51      A16S
ATOM  21248  C5  A  A1014     236.567 100.234  38.252  1.00106.51      A16S
ATOM  21249  N7  A  A1014     237.336  99.938  39.367  1.00106.51      A16S
ATOM  21250  C8  A  A1014     238.264 100.861  39.360  1.00106.51      A16S
ATOM  21251  C2* A  A1014     238.665 104.197  38.538  1.00111.19      A16S
ATOM  21252  O2* A  A1014     238.933 105.191  37.569  1.00111.19      A16S
ATOM  21253  C3* A  A1014     239.586 104.305  39.746  1.00111.19      A16S
ATOM  21254  O3* A  A1014     239.899 105.656  40.018  1.00111.19      A16S
ATOM  21255  P   A  A1015     239.832 106.197  41.521  1.00 94.72      A16S
ATOM  21256  O1P A  A1015     240.889 107.244  41.657  1.00 63.03      A16S
ATOM  21257  O2P A  A1015     239.842 105.003  42.422  1.00 63.03      A16S
ATOM  21258  O5* A  A1015     238.420 106.933  41.603  1.00 94.72      A16S
ATOM  21259  C5* A  A1015     238.199 108.194  40.923  1.00 94.72      A16S
ATOM  21260  C4* A  A1015     236.824 108.213  40.301  1.00 94.72      A16S
ATOM  21261  O4* A  A1015     236.689 107.019  39.500  1.00 94.72      A16S
ATOM  21262  C1* A  A1015     235.385 106.496  39.628  1.00 94.72      A16S
ATOM  21263  N9  A  A1015     235.503 105.128  40.133  1.00 63.03      A16S
ATOM  21264  C4  A  A1015     234.654 104.073  39.888  1.00 63.03      A16S
ATOM  21265  N3  A  A1015     233.514 104.084  39.175  1.00 63.03      A16S
ATOM  21266  C2  A  A1015     232.974 102.863  39.133  1.00 63.03      A16S
ATOM  21267  N1  A  A1015     233.410 101.719  39.683  1.00 63.03      A16S
ATOM  21268  C6  A  A1015     234.560 101.746  40.393  1.00 63.03      A16S
ATOM  21269  N6  A  A1015     235.003 100.613  40.942  1.00 63.03      A16S
ATOM  21270  C5  A  A1015     235.228 102.976  40.512  1.00 63.03      A16S
ATOM  21271  N7  A  A1015     236.402 103.337  41.156  1.00 63.03      A16S
ATOM  21272  C8  A  A1015     236.512 104.621  40.913  1.00 63.03      A16S
ATOM  21273  C2* A  A1015     234.574 107.467  40.482  1.00 94.72      A16S
ATOM  21274  O2* A  A1015     233.927 108.369  39.612  1.00 94.72      A16S
ATOM  21275  C3* A  A1015     235.661 108.170  41.278  1.00 94.72      A16S
ATOM  21276  O3* A  A1015     235.269 109.501  41.598  1.00 94.72      A16S
ATOM  21277  P   A  A1016     234.421 109.792  42.934  1.00116.79      A16S
ATOM  21278  O1P A  A1016     234.207 111.272  42.992  1.00 43.39      A16S
ATOM  21279  O2P A  A1016     235.071 109.089  44.081  1.00 43.39      A16S
ATOM  21280  O5* A  A1016     233.012 109.093  42.674  1.00116.79      A16S
ATOM  21281  C5* A  A1016     231.967 109.761  41.936  1.00116.79      A16S
ATOM  21282  C4* A  A1016     230.790 108.833  41.762  1.00116.79      A16S
ATOM  21283  O4* A  A1016     231.258 107.642  41.078  1.00116.79      A16S
ATOM  21284  C1* A  A1016     230.653 106.492  41.635  1.00116.79      A16S
ATOM  21285  N9  A  A1016     231.707 105.697  42.261  1.00 43.39      A16S
ATOM  21286  C4  A  A1016     231.761 104.328  42.377  1.00 43.39      A16S
ATOM  21287  N3  A  A1016     230.860 103.437  41.940  1.00 43.39      A16S
ATOM  21288  C2  A  A1016     231.243 102.197  42.237  1.00 43.39      A16S
ATOM  21289  N1  A  A1016     232.337 101.775  42.867  1.00 43.39      A16S
ATOM  21290  C6  A  A1016     233.230 102.690  43.286  1.00 43.39      A16S
ATOM  21291  N6  A  A1016     234.335 102.260  43.899  1.00 43.39      A16S
ATOM  21292  C5  A  A1016     232.939 104.049  43.042  1.00 43.39      A16S
ATOM  21293  N7  A  A1016     233.623 105.220  43.340  1.00 43.39      A16S
ATOM  21294  C8  A  A1016     232.851 106.165  42.859  1.00 43.39      A16S
ATOM  21295  C2* A  A1016     229.616 106.964  42.650  1.00116.79      A16S
ATOM  21296  O2* A  A1016     228.352 107.037  42.023  1.00116.79      A16S
ATOM  21297  C3* A  A1016     230.180 108.320  43.058  1.00116.79      A16S
ATOM  21298  O3* A  A1016     229.179 109.203  43.565  1.00116.79      A16S
ATOM  21299  P   G  A1017     228.971 109.350  45.157  1.00103.52      A16S
ATOM  21300  O1P G  A1017     227.673 110.050  45.341  1.00 94.55      A16S
ATOM  21301  O2P G  A1017     230.204 109.930  45.753  1.00 94.55      A16S
ATOM  21302  O5* G  A1017     228.831 107.845  45.676  1.00103.52      A16S
ATOM  21303  C5* G  A1017     227.787 106.989  45.175  1.00103.52      A16S
ATOM  21304  C4* G  A1017     228.090 105.532  45.467  1.00103.52      A16S
ATOM  21305  O4* G  A1017     229.379 105.169  44.916  1.00103.52      A16S
ATOM  21306  C1* G  A1017     229.955 104.136  45.695  1.00103.52      A16S
ATOM  21307  N9  G  A1017     231.250 104.579  46.196  1.00 94.55      A16S
ATOM  21308  C4  G  A1017     232.243 103.758  46.656  1.00 94.55      A16S
ATOM  21309  N3  G  A1017     232.192 102.408  46.705  1.00 94.55      A16S
ATOM  21310  C2  G  A1017     233.297 101.891  47.214  1.00 94.55      A16S
ATOM  21311  N2  G  A1017     233.414 100.559  47.340  1.00 94.55      A16S
ATOM  21312  N1  G  A1017     234.367 102.643  47.637  1.00 94.55      A16S
ATOM  21313  C6  G  A1017     234.437 104.035  47.597  1.00 94.55      A16S
ATOM  21314  O6  G  A1017     235.447 104.616  48.013  1.00 94.55      A16S
ATOM  21315  C5  G  A1017     233.261 104.600  47.054  1.00 94.55      A16S
ATOM  21316  N7  G  A1017     232.915 105.928  46.840  1.00 94.55      A16S
ATOM  21317  C8  G  A1017     231.716 105.868  46.326  1.00 94.55      A16S
ATOM  21318  C2* G  A1017     229.004 103.823  46.844  1.00103.52      A16S
ATOM  21319  O2* G  A1017     228.256 102.674  46.508  1.00103.52      A16S
ATOM  21320  C3* G  A1017     228.178 105.103  46.923  1.00103.52      A16S
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ATOM	21321	O3*	G	A1017	226.890	104.861	47.476	1.00103.52	A16S
ATOM	21322	P	C	A1018	226.670	104.986	49.060	1.00110.58	A16S
ATOM	21323	O1P	C	A1018	225.221	104.787	49.314	1.00 90.24	A16S
ATOM	21324	O2P	C	A1018	227.342	106.227	49.532	1.00 90.24	A16S
ATOM	21325	O5*	C	A1018	227.448	103.731	49.647	1.00110.58	A16S
ATOM	21326	C5*	C	A1018	227.026	102.393	49.335	1.00110.58	A16S
ATOM	21327	C4*	C	A1018	228.008	101.396	49.898	1.00110.58	A16S
ATOM	21328	O4*	C	A1018	229.290	101.550	49.230	1.00110.58	A16S
ATOM	21329	C1*	C	A1018	230.344	101.330	50.157	1.00110.58	A16S
ATOM	21330	N1	C	A1018	231.126	102.576	50.290	1.00 90.24	A16S
ATOM	21331	C6	C	A1018	230.529	103.802	50.155	1.00 90.24	A16S
ATOM	21332	C2	C	A1018	232.502	102.487	50.563	1.00 90.24	A16S
ATOM	21333	O2	C	A1018	233.019	101.365	50.704	1.00 90.24	A16S
ATOM	21334	N3	C	A1018	233.230	103.625	50.671	1.00 90.24	A16S
ATOM	21335	C4	C	A1018	232.637	104.815	50.525	1.00 90.24	A16S
ATOM	21336	N4	C	A1018	233.401	105.912	50.626	1.00 90.24	A16S
ATOM	21337	C5	C	A1018	231.237	104.935	50.265	1.00 90.24	A16S
ATOM	21338	C2*	C	A1018	229.711	100.920	51.484	1.00110.58	A16S
ATOM	21339	O2*	C	A1018	229.655	99.508	51.560	1.00110.58	A16S
ATOM	21340	C3*	C	A1018	228.339	101.570	51.373	1.00110.58	A16S
ATOM	21341	O3*	C	A1018	227.372	100.994	52.238	1.00110.58	A16S
ATOM	21342	P	C	A1019	227.058	101.702	53.648	1.00164.15	A16S
ATOM	21343	O1P	C	A1019	225.871	101.001	54.209	1.00 98.00	A16S
ATOM	21344	O2P	C	A1019	227.020	103.182	53.455	1.00 98.00	A16S
ATOM	21345	O5*	C	A1019	228.337	101.366	54.539	1.00164.15	A16S
ATOM	21346	C5*	C	A1019	228.802	100.008	54.676	1.00164.15	A16S
ATOM	21347	C4*	C	A1019	230.227	99.976	55.183	1.00164.15	A16S
ATOM	21348	O4*	C	A1019	231.100	100.659	54.244	1.00164.15	A16S
ATOM	21349	C1*	C	A1019	232.170	101.271	54.945	1.00164.15	A16S
ATOM	21350	N1	C	A1019	232.147	102.725	54.691	1.00 98.00	A16S
ATOM	21351	C6	C	A1019	230.964	103.400	54.549	1.00 98.00	A16S
ATOM	21352	C2	C	A1019	233.368	103.418	54.615	1.00 98.00	A16S
ATOM	21353	O2	C	A1019	234.431	102.787	54.735	1.00 98.00	A16S
ATOM	21354	N3	C	A1019	233.358	104.757	54.416	1.00 98.00	A16S
ATOM	21355	C4	C	A1019	232.198	105.407	54.298	1.00 98.00	A16S
ATOM	21356	N4	C	A1019	232.240	106.732	54.125	1.00 98.00	A16S
ATOM	21357	C5	C	A1019	230.942	104.728	54.356	1.00 98.00	A16S
ATOM	21358	C2*	C	A1019	231.997	100.950	56.429	1.00164.15	A16S
ATOM	21359	O2*	C	A1019	232.796	99.829	56.753	1.00164.15	A16S
ATOM	21360	C3*	C	A1019	230.502	100.663	56.510	1.00164.15	A16S
ATOM	21361	O3*	C	A1019	230.173	99.842	57.621	1.00164.15	A16S
ATOM	21362	P	U	A1020	229.550	100.514	58.942	1.00163.02	A16S
ATOM	21363	O1P	U	A1020	229.385	99.417	59.932	1.00167.39	A16S
ATOM	21364	O2P	U	A1020	228.367	101.322	58.538	1.00167.39	A16S
ATOM	21365	O5*	U	A1020	230.690	101.517	59.452	1.00163.02	A16S
ATOM	21366	C5*	U	A1020	231.968	101.016	59.909	1.00163.02	A16S
ATOM	21367	C4*	U	A1020	232.997	102.131	60.002	1.00163.02	A16S
ATOM	21368	O4*	U	A1020	233.112	102.799	58.718	1.00163.02	A16S
ATOM	21369	C1*	U	A1020	233.470	104.157	58.917	1.00163.02	A16S
ATOM	21370	N1	U	A1020	232.461	105.022	58.280	1.00167.39	A16S
ATOM	21371	C6	U	A1020	231.124	104.677	58.260	1.00167.39	A16S
ATOM	21372	C2	U	A1020	232.897	106.211	57.703	1.00167.39	A16S
ATOM	21373	O2	U	A1020	234.067	106.559	57.691	1.00167.39	A16S
ATOM	21374	N3	U	A1020	231.906	106.980	57.141	1.00167.39	A16S
ATOM	21375	C4	U	A1020	230.555	106.693	57.093	1.00167.39	A16S
ATOM	21376	O4	U	A1020	229.786	107.491	56.552	1.00167.39	A16S
ATOM	21377	C5	U	A1020	230.185	105.451	57.703	1.00167.39	A16S
ATOM	21378	C2*	U	A1020	233.596	104.393	60.423	1.00163.02	A16S
ATOM	21379	O2*	U	A1020	234.959	104.319	60.793	1.00163.02	A16S
ATOM	21380	C3*	U	A1020	232.752	103.258	60.998	1.00163.02	A16S
ATOM	21381	O3*	U	A1020	233.175	102.914	62.322	1.00163.02	A16S
ATOM	21382	P	G	A1021	232.494	103.632	63.598	1.00201.26	A16S
ATOM	21383	O1P	G	A1021	232.541	102.659	64.722	1.00193.24	A16S
ATOM	21384	O2P	G	A1021	231.189	104.221	63.195	1.00193.24	A16S
ATOM	21385	O5*	G	A1021	233.477	104.837	63.951	1.00201.26	A16S
ATOM	21386	C5*	G	A1021	234.712	104.603	64.656	1.00201.26	A16S
ATOM	21387	C4*	G	A1021	235.597	105.825	64.585	1.00201.26	A16S
ATOM	21388	O4*	G	A1021	235.849	106.138	63.188	1.00201.26	A16S
ATOM	21389	C1*	G	A1021	235.922	107.545	63.017	1.00201.26	A16S
ATOM	21390	N9	G	A1021	234.833	107.968	62.139	1.00193.24	A16S
ATOM	21391	C4	G	A1021	234.703	109.199	61.538	1.00193.24	A16S
ATOM	21392	N3	G	A1021	235.571	110.226	61.639	1.00193.24	A16S
ATOM	21393	C2	G	A1021	235.167	111.283	60.958	1.00193.24	A16S
ATOM	21394	N2	G	A1021	235.915	112.394	60.950	1.00193.24	A16S
ATOM	21395	N1	G	A1021	234.001	111.329	60.233	1.00193.24	A16S
ATOM	21396	C6	G	A1021	233.092	110.283	60.111	1.00193.24	A16S
ATOM	21397	O6	G	A1021	232.073	110.427	59.424	1.00193.24	A16S

ATOM	21398	C5	G	A1021	233.513	109.142	60.841	1.00193.24	A16S
ATOM	21399	N7	G	A1021	232.912	107.901	60.995	1.00193.24	A16S
ATOM	21400	C8	G	A1021	233.729	107.239	61.767	1.00193.24	A16S
ATOM	21401	C2*	G	A1021	235.791	108.185	64.399	1.00201.26	A16S
ATOM	21402	O2*	G	A1021	237.078	108.437	64.928	1.00201.26	A16S
ATOM	21403	C3*	G	A1021	235.024	107.113	65.163	1.00201.26	A16S
ATOM	21404	O3*	G	A1021	235.201	107.227	66.574	1.00201.26	A16S
ATOM	21405	P	G	A1022	234.266	108.239	67.418	1.00188.74	A16S
ATOM	21406	O1P	G	A1022	234.538	108.000	68.858	1.00200.81	A16S
ATOM	21407	O2P	G	A1022	232.873	108.132	66.906	1.00200.81	A16S
ATOM	21408	O5*	G	A1022	234.824	109.689	67.055	1.00188.74	A16S
ATOM	21409	C5*	G	A1022	236.203	110.029	67.301	1.00188.74	A16S
ATOM	21410	C4*	G	A1022	236.565	111.327	66.617	1.00188.74	A16S
ATOM	21411	O4*	G	A1022	236.312	111.214	65.191	1.00188.74	A16S
ATOM	21412	C1*	G	A1022	235.900	112.471	64.676	1.00188.74	A16S
ATOM	21413	N9	G	A1022	234.559	112.335	64.110	1.00200.81	A16S
ATOM	21414	C4	G	A1022	233.911	113.264	63.327	1.00200.81	A16S
ATOM	21415	N3	G	A1022	234.414	114.453	62.927	1.00200.81	A16S
ATOM	21416	C2	G	A1022	233.550	115.135	62.197	1.00200.81	A16S
ATOM	21417	N2	G	A1022	233.888	116.340	61.717	1.00200.81	A16S
ATOM	21418	N1	G	A1022	232.290	114.688	61.885	1.00200.81	A16S
ATOM	21419	C6	G	A1022	231.748	113.471	62.286	1.00200.81	A16S
ATOM	21420	O6	G	A1022	230.594	113.169	61.953	1.00200.81	A16S
ATOM	21421	C5	G	A1022	232.669	112.724	63.069	1.00200.81	A16S
ATOM	21422	N7	G	A1022	232.542	111.475	63.663	1.00200.81	A16S
ATOM	21423	C8	G	A1022	233.685	111.284	64.264	1.00200.81	A16S
ATOM	21424	C2*	G	A1022	235.920	113.474	65.830	1.00188.74	A16S
ATOM	21425	O2*	G	A1022	237.139	114.193	65.815	1.00188.74	A16S
ATOM	21426	C3*	G	A1022	235.777	112.557	67.038	1.00188.74	A16S
ATOM	21427	O3*	G	A1022	236.294	113.149	68.220	1.00188.74	A16S
ATOM	21428	P	G	A1023	235.298	113.921	69.219	1.00201.26	A16S
ATOM	21429	O1P	G	A1023	235.784	113.660	70.596	1.00197.12	A16S
ATOM	21430	O2P	G	A1023	233.898	113.567	68.859	1.00197.12	A16S
ATOM	21431	O5*	G	A1023	235.531	115.467	68.891	1.00201.26	A16S
ATOM	21432	C5*	G	A1023	234.602	116.469	69.360	1.00201.26	A16S
ATOM	21433	C4*	G	A1023	234.457	117.580	68.341	1.00201.26	A16S
ATOM	21434	O4*	G	A1023	234.495	117.009	67.007	1.00201.26	A16S
ATOM	21435	C1*	G	A1023	233.518	117.627	66.186	1.00201.26	A16S
ATOM	21436	N9	G	A1023	232.552	116.594	65.802	1.00197.12	A16S
ATOM	21437	C4	G	A1023	231.223	116.769	65.476	1.00197.12	A16S
ATOM	21438	N3	G	A1023	230.566	117.946	65.430	1.00197.12	A16S
ATOM	21439	C2	G	A1023	229.296	117.788	65.107	1.00197.12	A16S
ATOM	21440	N2	G	A1023	228.499	118.858	65.024	1.00197.12	A16S
ATOM	21441	N1	G	A1023	228.713	116.572	64.847	1.00197.12	A16S
ATOM	21442	C6	G	A1023	229.368	115.346	64.887	1.00197.12	A16S
ATOM	21443	O6	G	A1023	228.746	114.305	64.639	1.00197.12	A16S
ATOM	21444	C5	G	A1023	230.736	115.501	65.232	1.00197.12	A16S
ATOM	21445	N7	G	A1023	231.736	114.551	65.382	1.00197.12	A16S
ATOM	21446	C8	G	A1023	232.792	115.242	65.714	1.00197.12	A16S
ATOM	21447	C2*	G	A1023	232.919	118.793	66.983	1.00201.26	A16S
ATOM	21448	O2*	G	A1023	233.607	119.986	66.661	1.00201.26	A16S
ATOM	21449	C3*	G	A1023	233.133	118.330	68.423	1.00201.26	A16S
ATOM	21450	O3*	G	A1023	233.159	119.403	69.375	1.00201.26	A16S
ATOM	21451	P	G	A1024	232.158	119.380	70.648	1.00201.26	A16S
ATOM	21452	O1P	G	A1024	232.811	120.187	71.710	1.00201.26	A16S
ATOM	21453	O2P	G	A1024	231.771	117.972	70.938	1.00201.26	A16S
ATOM	21454	O5*	G	A1024	230.848	120.161	70.167	1.00201.26	A16S
ATOM	21455	C5*	G	A1024	230.787	121.608	70.192	1.00201.26	A16S
ATOM	21456	C4*	G	A1024	229.502	122.107	69.558	1.00201.26	A16S
ATOM	21457	O4*	G	A1024	229.337	121.455	68.271	1.00201.26	A16S
ATOM	21458	C1*	G	A1024	227.960	121.240	68.013	1.00201.26	A16S
ATOM	21459	N9	G	A1024	227.733	119.803	67.869	1.00201.26	A16S
ATOM	21460	C4	G	A1024	226.569	119.192	67.448	1.00201.26	A16S
ATOM	21461	N3	G	A1024	225.420	119.819	67.098	1.00201.26	A16S
ATOM	21462	C2	G	A1024	224.475	118.960	66.740	1.00201.26	A16S
ATOM	21463	N2	G	A1024	223.262	119.411	66.369	1.00201.26	A16S
ATOM	21464	N1	G	A1024	224.649	117.595	66.722	1.00201.26	A16S
ATOM	21465	C6	G	A1024	225.823	116.930	67.074	1.00201.26	A16S
ATOM	21466	O6	G	A1024	225.875	115.692	67.016	1.00201.26	A16S
ATOM	21467	C5	G	A1024	226.840	117.839	67.468	1.00201.26	A16S
ATOM	21468	N7	G	A1024	228.140	117.602	67.896	1.00201.26	A16S
ATOM	21469	C8	G	A1024	228.630	118.791	68.122	1.00201.26	A16S
ATOM	21470	C2*	G	A1024	227.166	121.853	69.167	1.00201.26	A16S
ATOM	21471	O2*	G	A1024	226.755	123.156	68.802	1.00201.26	A16S
ATOM	21472	C3*	G	A1024	228.191	121.845	70.298	1.00201.26	A16S
ATOM	21473	O3*	G	A1024	227.921	122.867	71.269	1.00201.26	A16S
ATOM	21474	P	U	A1025	226.516	122.879	72.077	1.00201.26	A16S

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ATOM  21475  O1P U   A1025     226.843 123.086  73.511  1.00201.26      A16S
ATOM  21476  O2P U   A1025     225.685 121.708  71.677  1.00201.26      A16S
ATOM  21477  O5* U   A1025     225.796 124.206  71.559  1.00201.26      A16S
ATOM  21478  C5* U   A1025     224.494 124.611  72.050  1.00201.26      A16S
ATOM  21479  C4* U   A1025     223.808 125.488  71.024  1.00201.26      A16S
ATOM  21480  O4* U   A1025     223.762 124.771  69.766  1.00201.26      A16S
ATOM  21481  C1* U   A1025     222.565 125.077  69.078  1.00201.26      A16S
ATOM  21482  N1   U   A1025     221.880 123.809  68.768  1.00201.26      A16S
ATOM  21483  C6   U   A1025     221.462 122.950  69.764  1.00201.26      A16S
ATOM  21484  C2   U   A1025     221.686 123.489  67.428  1.00201.26      A16S
ATOM  21485  O2   U   A1025     222.009 124.226  66.510  1.00201.26      A16S
ATOM  21486  N3   U   A1025     221.096 122.269  67.203  1.00201.26      A16S
ATOM  21487  C4   U   A1025     220.681 121.357  68.152  1.00201.26      A16S
ATOM  21488  O4   U   A1025     220.235 120.267  67.787  1.00201.26      A16S
ATOM  21489  C5   U   A1025     220.887 121.769  69.508  1.00201.26      A16S
ATOM  21490  C2* U   A1025     221.783 126.101  69.910  1.00201.26      A16S
ATOM  21491  O2* U   A1025     222.033 127.395  69.392  1.00201.26      A16S
ATOM  21492  C3* U   A1025     222.368 125.896  71.309  1.00201.26      A16S
ATOM  21493  O3* U   A1025     222.338 127.095  72.097  1.00201.26      A16S
ATOM  21494  P    G   A1026     220.929 127.779  72.486  1.00201.26      A16S
ATOM  21495  O1P G   A1026     221.151 128.578  73.720  1.00200.05      A16S
ATOM  21496  O2P G   A1026     219.859 126.746  72.467  1.00200.05      A16S
ATOM  21497  O5* G   A1026     220.651 128.805  71.296  1.00201.26      A16S
ATOM  21498  C5* G   A1026     219.394 129.507  71.202  1.00201.26      A16S
ATOM  21499  C4* G   A1026     219.060 129.799  69.755  1.00201.26      A16S
ATOM  21500  O4* G   A1026     219.213 128.583  68.979  1.00201.26      A16S
ATOM  21501  C1* G   A1026     218.192 128.502  68.001  1.00201.26      A16S
ATOM  21502  N9   G   A1026     217.435 127.277  68.257  1.00200.05      A16S
ATOM  21503  C4   G   A1026     217.640 126.046  67.673  1.00200.05      A16S
ATOM  21504  N3   G   A1026     218.565 125.753  66.732  1.00200.05      A16S
ATOM  21505  C2   G   A1026     218.519 124.479  66.375  1.00200.05      A16S
ATOM  21506  N2   G   A1026     219.360 124.015  65.440  1.00200.05      A16S
ATOM  21507  N1   G   A1026     217.642 123.567  66.907  1.00200.05      A16S
ATOM  21508  C6   G   A1026     216.684 123.847  67.876  1.00200.05      A16S
ATOM  21509  O6   G   A1026     215.944 122.948  68.292  1.00200.05      A16S
ATOM  21510  C5   G   A1026     216.716 125.207  68.260  1.00200.05      A16S
ATOM  21511  N7   G   A1026     215.939 125.894  69.178  1.00200.05      A16S
ATOM  21512  C8   G   A1026     216.396 127.115  69.142  1.00200.05      A16S
ATOM  21513  C2* G   A1026     217.370 129.795  68.073  1.00201.26      A16S
ATOM  21514  O2* G   A1026     217.840 130.713  67.103  1.00201.26      A16S
ATOM  21515  C3* G   A1026     217.628 130.253  69.507  1.00201.26      A16S
ATOM  21516  O3* G   A1026     217.486 131.667  69.657  1.00201.26      A16S
ATOM  21517  P    C   A1027     216.573 132.262  70.846  1.00201.26      A16S
ATOM  21518  O1P C   A1027     216.340 133.703  70.553  1.00201.26      A16S
ATOM  21519  O2P C   A1027     217.180 131.867  72.146  1.00201.26      A16S
ATOM  21520  O5* C   A1027     215.183 131.496  70.705  1.00201.26      A16S
ATOM  21521  C5* C   A1027     214.244 131.839  69.667  1.00201.26      A16S
ATOM  21522  C4* C   A1027     213.078 130.878  69.682  1.00201.26      A16S
ATOM  21523  O4* C   A1027     213.566 129.539  69.409  1.00201.26      A16S
ATOM  21524  C1* C   A1027     212.830 128.597  70.167  1.00201.26      A16S
ATOM  21525  N1   C   A1027     213.772 127.851  71.023  1.00201.26      A16S
ATOM  21526  C6   C   A1027     214.608 128.504  71.888  1.00201.26      A16S
ATOM  21527  C2   C   A1027     213.799 126.454  70.937  1.00201.26      A16S
ATOM  21528  O2   C   A1027     213.047 125.885  70.131  1.00201.26      A16S
ATOM  21529  N3   C   A1027     214.649 125.759  71.728  1.00201.26      A16S
ATOM  21530  C4   C   A1027     215.457 126.407  72.571  1.00201.26      A16S
ATOM  21531  N4   C   A1027     216.280 125.681  73.333  1.00201.26      A16S
ATOM  21532  C5   C   A1027     215.458 127.829  72.672  1.00201.26      A16S
ATOM  21533  C2* C   A1027     211.751 129.353  70.946  1.00201.26      A16S
ATOM  21534  O2* C   A1027     210.526 129.287  70.242  1.00201.26      A16S
ATOM  21535  C3* C   A1027     212.340 130.758  71.009  1.00201.26      A16S
ATOM  21536  O3* C   A1027     211.342 131.764  71.151  1.00201.26      A16S
ATOM  21537  P    C   A1028     210.743 132.095  72.607  1.00201.26      A16S
ATOM  21538  O1P C   A1028     210.156 133.460  72.528  1.00199.95      A16S
ATOM  21539  O2P C   A1028     211.775 131.798  73.639  1.00199.95      A16S
ATOM  21540  O5* C   A1028     209.560 131.041  72.779  1.00201.26      A16S
ATOM  21541  C5* C   A1028     208.235 131.341  72.303  1.00201.26      A16S
ATOM  21542  C4* C   A1028     207.327 130.143  72.465  1.00201.26      A16S
ATOM  21543  O4* C   A1028     207.706 129.098  71.534  1.00201.26      A16S
ATOM  21544  C1* C   A1028     207.373 127.837  72.086  1.00201.26      A16S
ATOM  21545  N1   C   A1028     208.541 126.937  71.989  1.00199.95      A16S
ATOM  21546  C6   C   A1028     209.762 127.305  72.482  1.00199.95      A16S
ATOM  21547  C2   C   A1028     208.377 125.681  71.378  1.00199.95      A16S
ATOM  21548  O2   C   A1028     207.263 125.366  70.929  1.00199.95      A16S
ATOM  21549  N3   C   A1028     209.434 124.845  71.292  1.00199.95      A16S
ATOM  21550  C4   C   A1028     210.617 125.214  71.781  1.00199.95      A16S
ATOM  21551  N4   C   A1028     211.627 124.351  71.679  1.00199.95      A16S
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ATOM  21552  C5  C   A1028     210.816 126.483  72.398  1.00199.95      A16S
ATOM  21553  C2* C   A1028     206.823 128.057  73.501  1.00201.26      A16S
ATOM  21554  O2* C   A1028     205.410 127.959  73.469  1.00201.26      A16S
ATOM  21555  C3* C   A1028     207.321 129.466  73.828  1.00201.26      A16S
ATOM  21556  O3* C   A1028     206.450 130.140  74.741  1.00201.26      A16S
ATOM  21557  P   C   A1029     206.983 130.555  76.206  1.00201.26      A16S
ATOM  21558  O1P C   A1029     205.824 131.105  76.958  1.00200.42      A16S
ATOM  21559  O2P C   A1029     208.216 131.376  76.053  1.00200.42      A16S
ATOM  21560  O5* C   A1029     207.398 129.176  76.886  1.00201.26      A16S
ATOM  21561  C5* C   A1029     206.445 128.108  77.060  1.00201.26      A16S
ATOM  21562  C4* C   A1029     207.172 126.799  77.248  1.00201.26      A16S
ATOM  21563  O4* C   A1029     207.884 126.476  76.023  1.00201.26      A16S
ATOM  21564  C1* C   A1029     209.162 125.944  76.333  1.00201.26      A16S
ATOM  21565  N1  C   A1029     210.190 126.884  75.831  1.00200.42      A16S
ATOM  21566  C6  C   A1029     209.915 128.219  75.701  1.00200.42      A16S
ATOM  21567  C2  C   A1029     211.462 126.392  75.497  1.00200.42      A16S
ATOM  21568  O2  C   A1029     211.692 125.176  75.612  1.00200.42      A16S
ATOM  21569  N3  C   A1029     212.408 127.256  75.056  1.00200.42      A16S
ATOM  21570  C4  C   A1029     212.126 128.557  74.941  1.00200.42      A16S
ATOM  21571  N4  C   A1029     213.090 129.372  74.510  1.00200.42      A16S
ATOM  21572  C5  C   A1029     210.843 129.080  75.265  1.00200.42      A16S
ATOM  21573  C2* C   A1029     209.226 125.766  77.852  1.00201.26      A16S
ATOM  21574  O2* C   A1029     208.821 124.453  78.186  1.00201.26      A16S
ATOM  21575  C3* C   A1029     208.247 126.834  78.323  1.00201.26      A16S
ATOM  21576  O3* C   A1029     207.717 126.598  79.621  1.00201.26      A16S
ATOM  21577  P   C   A1030     208.000 127.658  80.799  1.00201.26      A16S
ATOM  21578  O1P C   A1030     207.318 128.925  80.431  1.00177.04      A16S
ATOM  21579  O2P C   A1030     209.456 127.672  81.087  1.00177.04      A16S
ATOM  21580  O5* C   A1030     207.257 127.032  82.060  1.00201.26      A16S
ATOM  21581  C5* C   A1030     205.821 126.923  82.094  1.00201.26      A16S
ATOM  21582  C4* C   A1030     205.406 125.489  82.337  1.00201.26      A16S
ATOM  21583  O4* C   A1030     205.807 124.674  81.205  1.00201.26      A16S
ATOM  21584  C1* C   A1030     206.179 123.382  81.654  1.00201.26      A16S
ATOM  21585  N1  C   A1030     207.578 123.132  81.265  1.00177.04      A16S
ATOM  21586  C6  C   A1030     208.507 124.136  81.306  1.00177.04      A16S
ATOM  21587  C2  C   A1030     207.952 121.841  80.865  1.00177.04      A16S
ATOM  21588  O2  C   A1030     207.089 120.948  80.818  1.00177.04      A16S
ATOM  21589  N3  C   A1030     209.244 121.601  80.539  1.00177.04      A16S
ATOM  21590  C4  C   A1030     210.143 122.588  80.596  1.00177.04      A16S
ATOM  21591  N4  C   A1030     211.409 122.305  80.280  1.00177.04      A16S
ATOM  21592  C5  C   A1030     209.786 123.911  80.984  1.00177.04      A16S
ATOM  21593  C2* C   A1030     205.974 123.331  83.170  1.00201.26      A16S
ATOM  21594  O2* C   A1030     204.732 122.719  83.461  1.00201.26      A16S
ATOM  21595  C3* C   A1030     206.033 124.810  83.547  1.00201.26      A16S
ATOM  21596  O3* C   A1030     205.322 125.088  84.757  1.00201.26      A16S
ATOM  21597  P   G   A1030A    206.113 125.668  86.040  1.00201.26      A16S
ATOM  21598  O1P G   A1030A    205.363 125.252  87.258  1.00201.26      A16S
ATOM  21599  O2P G   A1030A    206.394 127.111  85.809  1.00201.26      A16S
ATOM  21600  O5* G   A1030A    207.506 124.895  86.036  1.00201.26      A16S
ATOM  21601  C5* G   A1030A    207.561 123.456  86.063  1.00201.26      A16S
ATOM  21602  C4* G   A1030A    208.965 122.987  85.772  1.00201.26      A16S
ATOM  21603  O4* G   A1030A    209.355 123.436  84.445  1.00201.26      A16S
ATOM  21604  C1* G   A1030A    210.729 123.795  84.441  1.00201.26      A16S
ATOM  21605  N9  G   A1030A    210.836 125.220  84.124  1.00201.26      A16S
ATOM  21606  C4  G   A1030A    211.807 125.821  83.349  1.00201.26      A16S
ATOM  21607  N3  G   A1030A    212.826 125.194  82.719  1.00201.26      A16S
ATOM  21608  C2  G   A1030A    213.600 126.043  82.060  1.00201.26      A16S
ATOM  21609  N2  G   A1030A    214.658 125.592  81.373  1.00201.26      A16S
ATOM  21610  N1  G   A1030A    213.392 127.399  82.025  1.00201.26      A16S
ATOM  21611  C6  G   A1030A    212.353 128.068  82.664  1.00201.26      A16S
ATOM  21612  O6  G   A1030A    212.263 129.297  82.569  1.00201.26      A16S
ATOM  21613  C5  G   A1030A    211.510 127.169  83.373  1.00201.26      A16S
ATOM  21614  N7  G   A1030A    210.373 127.412  84.134  1.00201.26      A16S
ATOM  21615  C8  G   A1030A    210.006 126.232  84.555  1.00201.26      A16S
ATOM  21616  C2* G   A1030A    211.288 123.482  85.830  1.00201.26      A16S
ATOM  21617  O2* G   A1030A    211.878 122.194  85.849  1.00201.26      A16S
ATOM  21618  C3* G   A1030A    210.031 123.568  86.683  1.00201.26      A16S
ATOM  21619  O3* G   A1030A    210.147 122.887  87.917  1.00201.26      A16S
ATOM  21620  P   C   A1030B    210.584 123.714  89.223  1.00201.26      A16S
ATOM  21621  O1P C   A1030B    210.720 122.736  90.330  1.00123.30      A16S
ATOM  21622  O2P C   A1030B    209.657 124.871  89.377  1.00123.30      A16S
ATOM  21623  O5* C   A1030B    212.045 124.244  88.856  1.00201.26      A16S
ATOM  21624  C5* C   A1030B    212.329 125.655  88.675  1.00201.26      A16S
ATOM  21625  C4* C   A1030B    213.780 125.934  89.007  1.00201.26      A16S
ATOM  21626  O4* C   A1030B    214.004 125.524  90.381  1.00201.26      A16S
ATOM  21627  C1* C   A1030B    215.259 124.878  90.497  1.00201.26      A16S
ATOM  21628  N1  C   A1030B    215.025 123.489  90.953  1.00123.30      A16S
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ATOM  21629  C6   C   A1030B    213.760 122.970  90.995  1.00123.30      A16S
ATOM  21630  C2   C   A1030B    216.123 122.701  91.353  1.00123.30      A16S
ATOM  21631  O2   C   A1030B    217.270 123.183  91.302  1.00123.30      A16S
ATOM  21632  N3   C   A1030B    215.903 121.433  91.784  1.00123.30      A16S
ATOM  21633  C4   C   A1030B    214.660 120.945  91.824  1.00123.30      A16S
ATOM  21634  N4   C   A1030B    214.490 119.694  92.262  1.00123.30      A16S
ATOM  21635  C5   C   A1030B    213.534 121.718  91.419  1.00123.30      A16S
ATOM  21636  C2*  C   A1030B    215.970 124.990  89.146  1.00201.26      A16S
ATOM  21637  O2*  C   A1030B    216.827 126.114  89.155  1.00201.26      A16S
ATOM  21638  C3*  C   A1030B    214.798 125.149  88.185  1.00201.26      A16S
ATOM  21639  O3*  C   A1030B    215.188 125.863  87.008  1.00201.26      A16S
ATOM  21640  P    G   A1030C    215.625 125.058  85.681  1.00200.44      A16S
ATOM  21641  O1P  G   A1030C    216.390 126.007  84.829  1.00195.69      A16S
ATOM  21642  O2P  G   A1030C    214.431 124.372  85.124  1.00195.69      A16S
ATOM  21643  O5*  G   A1030C    216.629 123.935  86.199  1.00200.44      A16S
ATOM  21644  C5*  G   A1030C    217.960 124.265  86.634  1.00200.44      A16S
ATOM  21645  C4*  G   A1030C    218.607 123.059  87.267  1.00200.44      A16S
ATOM  21646  O4*  G   A1030C    217.789 122.635  88.387  1.00200.44      A16S
ATOM  21647  C1*  G   A1030C    217.769 121.220  88.464  1.00200.44      A16S
ATOM  21648  N9   G   A1030C    216.383 120.772  88.339  1.00195.69      A16S
ATOM  21649  C4   G   A1030C    215.863 119.571  88.775  1.00195.69      A16S
ATOM  21650  N3   G   A1030C    216.549 118.581  89.392  1.00195.69      A16S
ATOM  21651  C2   G   A1030C    215.772 117.549  89.687  1.00195.69      A16S
ATOM  21652  N2   G   A1030C    216.292 116.472  90.296  1.00195.69      A16S
ATOM  21653  N1   G   A1030C    214.429 117.495  89.406  1.00195.69      A16S
ATOM  21654  C6   G   A1030C    213.701 118.500  88.775  1.00195.69      A16S
ATOM  21655  O6   G   A1030C    212.489 118.349  88.573  1.00195.69      A16S
ATOM  21656  C5   G   A1030C    214.524 119.612  88.445  1.00195.69      A16S
ATOM  21657  N7   G   A1030C    214.208 120.807  87.810  1.00195.69      A16S
ATOM  21658  C8   G   A1030C    215.338 121.461  87.768  1.00195.69      A16S
ATOM  21659  C2*  G   A1030C    218.691 120.679  87.370  1.00200.44      A16S
ATOM  21660  O2*  G   A1030C    219.966 120.398  87.914  1.00200.44      A16S
ATOM  21661  C3*  G   A1030C    218.702 121.832  86.372  1.00200.44      A16S
ATOM  21662  O3*  G   A1030C    219.888 121.849  85.581  1.00200.44      A16S
ATOM  21663  P    A   A1030D    219.912 121.093  84.161  1.00200.72      A16S
ATOM  21664  O1P  A   A1030D    221.277 121.243  83.598  1.00201.26      A16S
ATOM  21665  O2P  A   A1030D    218.741 121.549  83.370  1.00201.26      A16S
ATOM  21666  O5*  A   A1030D    219.694 119.559  84.533  1.00200.72      A16S
ATOM  21667  C5*  A   A1030D    220.675 118.830  85.298  1.00200.72      A16S
ATOM  21668  C4*  A   A1030D    220.091 117.523  85.786  1.00200.72      A16S
ATOM  21669  O4*  A   A1030D    218.995 117.803  86.699  1.00200.72      A16S
ATOM  21670  C1*  A   A1030D    217.956 116.853  86.514  1.00200.72      A16S
ATOM  21671  N9   A   A1030D    216.759 117.561  86.048  1.00201.26      A16S
ATOM  21672  C4   A   A1030D    215.514 117.012  85.833  1.00201.26      A16S
ATOM  21673  N3   A   A1030D    215.141 115.733  86.026  1.00201.26      A16S
ATOM  21674  C2   A   A1030D    213.863 115.563  85.690  1.00201.26      A16S
ATOM  21675  N1   A   A1030D    212.981 116.458  85.217  1.00201.26      A16S
ATOM  21676  C6   A   A1030D    213.389 117.734  85.035  1.00201.26      A16S
ATOM  21677  N6   A   A1030D    212.513 118.627  84.559  1.00201.26      A16S
ATOM  21678  C5   A   A1030D    214.722 118.046  85.358  1.00201.26      A16S
ATOM  21679  N7   A   A1030D    215.445 119.229  85.291  1.00201.26      A16S
ATOM  21680  C8   A   A1030D    216.640 118.891  85.711  1.00201.26      A16S
ATOM  21681  C2*  A   A1030D    218.448 115.829  85.488  1.00200.72      A16S
ATOM  21682  O2*  A   A1030D    219.000 114.707  86.152  1.00200.72      A16S
ATOM  21683  C3*  A   A1030D    219.476 116.643  84.708  1.00200.72      A16S
ATOM  21684  O3*  A   A1030D    220.435 115.822  84.045  1.00200.72      A16S
ATOM  21685  P    G   A1031     220.564 115.879  82.437  1.00201.26      A16S
ATOM  21686  O1P  G   A1031     221.130 114.576  81.993  1.00201.08      A16S
ATOM  21687  O2P  G   A1031     221.262 117.142  82.081  1.00201.08      A16S
ATOM  21688  O5*  G   A1031     219.061 115.972  81.902  1.00201.26      A16S
ATOM  21689  C5*  G   A1031     218.069 115.017  82.326  1.00201.26      A16S
ATOM  21690  C4*  G   A1031     216.668 115.562  82.128  1.00201.26      A16S
ATOM  21691  O4*  G   A1031     216.587 116.929  82.614  1.00201.26      A16S
ATOM  21692  C1*  G   A1031     215.539 117.603  81.941  1.00201.26      A16S
ATOM  21693  N9   G   A1031     216.005 118.900  81.461  1.00201.08      A16S
ATOM  21694  C4   G   A1031     215.378 120.103  81.676  1.00201.08      A16S
ATOM  21695  N3   G   A1031     214.237 120.286  82.377  1.00201.08      A16S
ATOM  21696  C2   G   A1031     213.877 121.555  82.412  1.00201.08      A16S
ATOM  21697  N2   G   A1031     212.767 121.912  83.070  1.00201.08      A16S
ATOM  21698  N1   G   A1031     214.578 122.569  81.805  1.00201.08      A16S
ATOM  21699  C6   G   A1031     215.753 122.406  81.077  1.00201.08      A16S
ATOM  21700  O6   G   A1031     216.305 123.391  80.568  1.00201.08      A16S
ATOM  21701  C5   G   A1031     216.155 121.042  81.033  1.00201.08      A16S
ATOM  21702  N7   G   A1031     217.252 120.443  80.426  1.00201.08      A16S
ATOM  21703  C8   G   A1031     217.123 119.174  80.707  1.00201.08      A16S
ATOM  21704  C2*  G   A1031     215.009 116.689  80.839  1.00201.26      A16S
ATOM  21705  O2*  G   A1031     213.788 116.141  81.291  1.00201.26      A16S
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ATOM  21706  C3* G   A1031     216.133 115.659  80.706  1.00201.26      A16S
ATOM  21707  O3* G   A1031     215.634 114.399  80.263  1.00201.26      A16S
ATOM  21708  P   G   A1032     215.145 114.222  78.739  1.00201.26      A16S
ATOM  21709  O1P G   A1032     215.017 112.760  78.491  1.00180.47      A16S
ATOM  21710  O2P G   A1032     216.023 115.043  77.859  1.00180.47      A16S
ATOM  21711  O5* G   A1032     213.681 114.858  78.729  1.00201.26      A16S
ATOM  21712  C5* G   A1032     212.616 114.286  79.522  1.00201.26      A16S
ATOM  21713  C4* G   A1032     211.358 115.118  79.400  1.00201.26      A16S
ATOM  21714  O4* G   A1032     211.580 116.440  79.953  1.00201.26      A16S
ATOM  21715  C1* G   A1032     210.822 117.392  79.229  1.00201.26      A16S
ATOM  21716  N9  G   A1032     211.705 118.481  78.814  1.00180.47      A16S
ATOM  21717  C4  G   A1032     211.326 119.688  78.262  1.00180.47      A16S
ATOM  21718  N3  G   A1032     210.061 120.075  77.981  1.00180.47      A16S
ATOM  21719  C2  G   A1032     210.020 121.297  77.465  1.00180.47      A16S
ATOM  21720  N2  G   A1032     208.841 121.840  77.119  1.00180.47      A16S
ATOM  21721  N1  G   A1032     211.130 122.076  77.248  1.00180.47      A16S
ATOM  21722  C6  G   A1032     212.440 121.699  77.530  1.00180.47      A16S
ATOM  21723  O6  G   A1032     213.370 122.482  77.301  1.00180.47      A16S
ATOM  21724  C5  G   A1032     212.501 120.389  78.078  1.00180.47      A16S
ATOM  21725  N7  G   A1032     213.593 119.638  78.491  1.00180.47      A16S
ATOM  21726  C8  G   A1032     213.076 118.517  78.914  1.00180.47      A16S
ATOM  21727  C2* G   A1032     210.076 116.662  78.106  1.00201.26      A16S
ATOM  21728  O2* G   A1032     208.735 116.466  78.507  1.00201.26      A16S
ATOM  21729  C3* G   A1032     210.865 115.357  77.983  1.00201.26      A16S
ATOM  21730  O3* G   A1032     210.044 114.261  77.572  1.00201.26      A16S
ATOM  21731  P   G   A1033     210.270 113.575  76.133  1.00201.26      A16S
ATOM  21732  O1P G   A1033     209.558 112.270  76.158  1.00200.15      A16S
ATOM  21733  O2P G   A1033     211.718 113.611  75.802  1.00200.15      A16S
ATOM  21734  O5* G   A1033     209.501 114.539  75.124  1.00201.26      A16S
ATOM  21735  C5* G   A1033     208.104 114.838  75.314  1.00201.26      A16S
ATOM  21736  C4* G   A1033     207.792 116.240  74.839  1.00201.26      A16S
ATOM  21737  O4* G   A1033     208.611 117.189  75.570  1.00201.26      A16S
ATOM  21738  C1* G   A1033     208.936 118.283  74.733  1.00201.26      A16S
ATOM  21739  N9  G   A1033     210.389 118.430  74.687  1.00200.15      A16S
ATOM  21740  C4  G   A1033     211.077 119.604  74.491  1.00200.15      A16S
ATOM  21741  N3  G   A1033     210.528 120.823  74.302  1.00200.15      A16S
ATOM  21742  C2  G   A1033     211.446 121.762  74.148  1.00200.15      A16S
ATOM  21743  N2  G   A1033     211.072 123.031  73.954  1.00200.15      A16S
ATOM  21744  N1  G   A1033     212.798 121.524  74.175  1.00200.15      A16S
ATOM  21745  C6  G   A1033     213.388 120.279  74.370  1.00200.15      A16S
ATOM  21746  O6  G   A1033     214.622 120.177  74.384  1.00200.15      A16S
ATOM  21747  C5  G   A1033     212.411 119.258  74.536  1.00200.15      A16S
ATOM  21748  N7  G   A1033     212.560 117.893  74.748  1.00200.15      A16S
ATOM  21749  C8  G   A1033     211.337 117.443  74.830  1.00200.15      A16S
ATOM  21750  C2* G   A1033     208.290 118.047  73.365  1.00201.26      A16S
ATOM  21751  O2* G   A1033     207.084 118.784  73.288  1.00201.26      A16S
ATOM  21752  C3* G   A1033     208.071 116.535  73.372  1.00201.26      A16S
ATOM  21753  O3* G   A1033     206.963 116.153  72.557  1.00201.26      A16S
ATOM  21754  P   G   A1034     207.187 115.840  70.994  1.00201.26      A16S
ATOM  21755  O1P G   A1034     205.860 115.445  70.450  1.00172.18      A16S
ATOM  21756  O2P G   A1034     208.343 114.912  70.854  1.00172.18      A16S
ATOM  21757  O5* G   A1034     207.594 117.252  70.366  1.00201.26      A16S
ATOM  21758  C5* G   A1034     206.626 118.318  70.233  1.00201.26      A16S
ATOM  21759  C4* G   A1034     207.292 119.594  69.754  1.00201.26      A16S
ATOM  21760  O4* G   A1034     208.223 120.077  70.759  1.00201.26      A16S
ATOM  21761  C1* G   A1034     209.312 120.733  70.128  1.00201.26      A16S
ATOM  21762  N9  G   A1034     210.557 120.079  70.525  1.00172.18      A16S
ATOM  21763  C4  G   A1034     211.808 120.654  70.562  1.00172.18      A16S
ATOM  21764  N3  G   A1034     212.105 121.937  70.253  1.00172.18      A16S
ATOM  21765  C2  G   A1034     213.399 122.187  70.375  1.00172.18      A16S
ATOM  21766  N2  G   A1034     213.874 123.408  70.102  1.00172.18      A16S
ATOM  21767  N1  G   A1034     214.326 121.257  70.771  1.00172.18      A16S
ATOM  21768  C6  G   A1034     214.045 119.932  71.094  1.00172.18      A16S
ATOM  21769  O6  G   A1034     214.962 119.169  71.436  1.00172.18      A16S
ATOM  21770  C5  G   A1034     212.660 119.648  70.967  1.00172.18      A16S
ATOM  21771  N7  G   A1034     211.961 118.468  71.187  1.00172.18      A16S
ATOM  21772  C8  G   A1034     210.721 118.771  70.917  1.00172.18      A16S
ATOM  21773  C2* G   A1034     209.083 120.679  68.616  1.00201.26      A16S
ATOM  21774  O2* G   A1034     208.532 121.906  68.180  1.00201.26      A16S
ATOM  21775  C3* G   A1034     208.123 119.500  68.482  1.00201.26      A16S
ATOM  21776  O3* G   A1034     207.327 119.603  67.305  1.00201.26      A16S
ATOM  21777  P   A   A1035     207.850 118.948  65.929  1.00201.26      A16S
ATOM  21778  O1P A   A1035     206.897 117.862  65.575  1.00201.26      A16S
ATOM  21779  O2P A   A1035     209.300 118.634  66.062  1.00201.26      A16S
ATOM  21780  O5* A   A1035     207.712 120.127  64.861  1.00201.26      A16S
ATOM  21781  C5* A   A1035     206.498 120.321  64.095  1.00201.26      A16S
ATOM  21782  C4* A   A1035     206.569 121.627  63.331  1.00201.26      A16S
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ATOM  21783  O4*  A  A1035     206.590 122.726  64.275  1.00201.26      A16S
ATOM  21784  C1*  A  A1035     207.499 123.720  63.843  1.00201.26      A16S
ATOM  21785  N9   A  A1035     208.520 123.855  64.886  1.00201.26      A16S
ATOM  21786  C4   A  A1035     208.578 124.836  65.849  1.00201.26      A16S
ATOM  21787  N3   A  A1035     207.739 125.877  66.011  1.00201.26      A16S
ATOM  21788  C2   A  A1035     208.098 126.611  67.065  1.00201.26      A16S
ATOM  21789  N1   A  A1035     209.120 126.435  67.912  1.00201.26      A16S
ATOM  21790  C6   A  A1035     209.941 125.379  67.724  1.00201.26      A16S
ATOM  21791  N6   A  A1035     210.954 125.198  68.574  1.00201.26      A16S
ATOM  21792  C5   A  A1035     209.673 124.527  66.637  1.00201.26      A16S
ATOM  21793  N7   A  A1035     210.305 123.383  66.171  1.00201.26      A16S
ATOM  21794  C8   A  A1035     209.589 123.027  65.133  1.00201.26      A16S
ATOM  21795  C2*  A  A1035     208.026 123.310  62.463  1.00201.26      A16S
ATOM  21796  O2*  A  A1035     207.269 123.956  61.458  1.00201.26      A16S
ATOM  21797  C3*  A  A1035     207.824 121.797  62.489  1.00201.26      A16S
ATOM  21798  O3*  A  A1035     207.634 121.240  61.193  1.00201.26      A16S
ATOM  21799  P    G  A1036     208.826 120.420  60.496  1.00201.26      A16S
ATOM  21800  O1P  G  A1036     208.365 120.022  59.140  1.00194.20      A16S
ATOM  21801  O2P  G  A1036     209.306 119.378  61.441  1.00194.20      A16S
ATOM  21802  O5*  G  A1036     209.979 121.504  60.331  1.00201.26      A16S
ATOM  21803  C5*  G  A1036     209.782 122.691  59.535  1.00201.26      A16S
ATOM  21804  C4*  G  A1036     210.972 123.604  59.685  1.00201.26      A16S
ATOM  21805  O4*  G  A1036     211.011 124.102  61.047  1.00201.26      A16S
ATOM  21806  C1*  G  A1036     212.348 124.126  61.513  1.00201.26      A16S
ATOM  21807  N9   G  A1036     212.423 123.278  62.701  1.00194.20      A16S
ATOM  21808  C4   G  A1036     212.977 123.611  63.916  1.00194.20      A16S
ATOM  21809  N3   G  A1036     213.568 124.785  64.226  1.00194.20      A16S
ATOM  21810  C2   G  A1036     213.995 124.808  65.479  1.00194.20      A16S
ATOM  21811  N2   G  A1036     214.612 125.899  65.956  1.00194.20      A16S
ATOM  21812  N1   G  A1036     213.850 123.763  66.357  1.00194.20      A16S
ATOM  21813  C6   G  A1036     213.244 122.547  66.061  1.00194.20      A16S
ATOM  21814  O6   G  A1036     213.161 121.672  66.930  1.00194.20      A16S
ATOM  21815  C5   G  A1036     212.787 122.506  64.720  1.00194.20      A16S
ATOM  21816  N7   G  A1036     212.136 121.497  64.026  1.00194.20      A16S
ATOM  21817  C8   G  A1036     211.942 121.996  62.836  1.00194.20      A16S
ATOM  21818  C2*  G  A1036     213.262 123.699  60.357  1.00201.26      A16S
ATOM  21819  O2*  G  A1036     213.791 124.845  59.717  1.00201.26      A16S
ATOM  21820  C3*  G  A1036     212.305 122.900  59.474  1.00201.26      A16S
ATOM  21821  O3*  G  A1036     212.676 122.903  58.092  1.00201.26      A16S
ATOM  21822  P    C  A1037     212.441 121.585  57.190  1.00201.26      A16S
ATOM  21823  O1P  C  A1037     211.590 121.983  56.038  1.00201.26      A16S
ATOM  21824  O2P  C  A1037     212.010 120.458  58.060  1.00201.26      A16S
ATOM  21825  O5*  C  A1037     213.891 121.235  56.631  1.00201.26      A16S
ATOM  21826  C5*  C  A1037     214.658 122.193  55.866  1.00201.26      A16S
ATOM  21827  C4*  C  A1037     216.087 122.222  56.361  1.00201.26      A16S
ATOM  21828  O4*  C  A1037     216.103 122.786  57.698  1.00201.26      A16S
ATOM  21829  C1*  C  A1037     217.002 122.060  58.519  1.00201.26      A16S
ATOM  21830  N1   C  A1037     216.203 121.417  59.581  1.00201.26      A16S
ATOM  21831  C6   C  A1037     215.126 120.638  59.254  1.00201.26      A16S
ATOM  21832  C2   C  A1037     216.545 121.619  60.931  1.00201.26      A16S
ATOM  21833  O2   C  A1037     217.534 122.321  61.212  1.00201.26      A16S
ATOM  21834  N3   C  A1037     215.784 121.041  61.893  1.00201.26      A16S
ATOM  21835  C4   C  A1037     214.727 120.294  61.550  1.00201.26      A16S
ATOM  21836  N4   C  A1037     213.993 119.754  62.521  1.00201.26      A16S
ATOM  21837  C5   C  A1037     214.371 120.069  60.194  1.00201.26      A16S
ATOM  21838  C2*  C  A1037     217.748 121.065  57.622  1.00201.26      A16S
ATOM  21839  O2*  C  A1037     218.964 121.643  57.186  1.00201.26      A16S
ATOM  21840  C3*  C  A1037     216.741 120.853  56.494  1.00201.26      A16S
ATOM  21841  O3*  C  A1037     217.342 120.429  55.269  1.00201.26      A16S
ATOM  21842  P    C  A1038     217.066 118.940  54.710  1.00201.26      A16S
ATOM  21843  O1P  C  A1038     217.733 118.837  53.386  1.00201.26      A16S
ATOM  21844  O2P  C  A1038     215.613 118.643  54.823  1.00201.26      A16S
ATOM  21845  O5*  C  A1038     217.845 117.989  55.725  1.00201.26      A16S
ATOM  21846  C5*  C  A1038     219.282 118.053  55.850  1.00201.26      A16S
ATOM  21847  C4*  C  A1038     219.744 117.224  57.027  1.00201.26      A16S
ATOM  21848  O4*  C  A1038     219.150 117.752  58.241  1.00201.26      A16S
ATOM  21849  C1*  C  A1038     218.866 116.691  59.134  1.00201.26      A16S
ATOM  21850  N1   C  A1038     217.433 116.760  59.505  1.00201.26      A16S
ATOM  21851  C6   C  A1038     216.465 116.247  58.685  1.00201.26      A16S
ATOM  21852  C2   C  A1038     217.076 117.362  60.727  1.00201.26      A16S
ATOM  21853  O2   C  A1038     217.964 117.838  61.452  1.00201.26      A16S
ATOM  21854  N3   C  A1038     215.771 117.410  61.081  1.00201.26      A16S
ATOM  21855  C4   C  A1038     214.839 116.899  60.275  1.00201.26      A16S
ATOM  21856  N4   C  A1038     213.565 116.969  60.669  1.00201.26      A16S
ATOM  21857  C5   C  A1038     215.170 116.293  59.028  1.00201.26      A16S
ATOM  21858  C2*  C  A1038     219.323 115.381  58.479  1.00201.26      A16S
ATOM  21859  O2*  C  A1038     220.597 115.011  58.972  1.00201.26      A16S
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ATOM	21860	C3*	C	A1038	219.344	115.756	57.000	1.00201.26	A16S
ATOM	21861	O3*	C	A1038	220.288	114.978	56.265	1.00201.26	A16S
ATOM	21862	P	C	A1039	219.817	114.174	54.953	1.00184.53	A16S
ATOM	21863	O1P	C	A1039	220.854	114.418	53.917	1.00119.90	A16S
ATOM	21864	O2P	C	A1039	218.396	114.505	54.660	1.00119.90	A16S
ATOM	21865	O5*	C	A1039	219.888	112.641	55.386	1.00184.53	A16S
ATOM	21866	C5*	C	A1039	221.153	112.007	55.658	1.00184.53	A16S
ATOM	21867	C4*	C	A1039	220.971	110.859	56.625	1.00184.53	A16S
ATOM	21868	O4*	C	A1039	220.444	111.364	57.878	1.00184.53	A16S
ATOM	21869	C1*	C	A1039	219.559	110.411	58.447	1.00184.53	A16S
ATOM	21870	N1	C	A1039	218.244	111.057	58.675	1.00119.90	A16S
ATOM	21871	C6	C	A1039	218.096	112.409	58.513	1.00119.90	A16S
ATOM	21872	C2	C	A1039	217.141	110.269	59.075	1.00119.90	A16S
ATOM	21873	O2	C	A1039	217.286	109.041	59.220	1.00119.90	A16S
ATOM	21874	N3	C	A1039	215.947	110.873	59.297	1.00119.90	A16S
ATOM	21875	C4	C	A1039	215.825	112.195	59.142	1.00119.90	A16S
ATOM	21876	N4	C	A1039	214.633	112.749	59.385	1.00119.90	A16S
ATOM	21877	C5	C	A1039	216.920	113.011	58.735	1.00119.90	A16S
ATOM	21878	C2*	C	A1039	219.537	109.184	57.528	1.00184.53	A16S
ATOM	21879	O2*	C	A1039	220.429	108.211	58.035	1.00184.53	A16S
ATOM	21880	C3*	C	A1039	219.994	109.774	56.199	1.00184.53	A16S
ATOM	21881	O3*	C	A1039	220.636	108.798	55.385	1.00184.53	A16S
ATOM	21882	P	U	A1040	219.760	107.884	54.394	1.00169.83	A16S
ATOM	21883	O1P	U	A1040	220.707	107.030	53.632	1.00166.34	A16S
ATOM	21884	O2P	U	A1040	218.810	108.761	53.661	1.00166.34	A16S
ATOM	21885	O5*	U	A1040	218.912	106.948	55.365	1.00169.83	A16S
ATOM	21886	C5*	U	A1040	219.556	105.973	56.205	1.00169.83	A16S
ATOM	21887	C4*	U	A1040	218.528	105.226	57.023	1.00169.83	A16S
ATOM	21888	O4*	U	A1040	217.856	106.145	57.920	1.00169.83	A16S
ATOM	21889	C1*	U	A1040	216.504	105.750	58.080	1.00169.83	A16S
ATOM	21890	N1	U	A1040	215.629	106.887	57.748	1.00166.34	A16S
ATOM	21891	C6	U	A1040	216.069	107.932	56.965	1.00166.34	A16S
ATOM	21892	C2	U	A1040	214.346	106.887	58.269	1.00166.34	A16S
ATOM	21893	O2	U	A1040	213.893	105.964	58.926	1.00166.34	A16S
ATOM	21894	N3	U	A1040	213.606	108.008	57.986	1.00166.34	A16S
ATOM	21895	C4	U	A1040	213.998	109.098	57.239	1.00166.34	A16S
ATOM	21896	O4	U	A1040	213.241	110.065	57.136	1.00166.34	A16S
ATOM	21897	C5	U	A1040	215.318	109.006	56.700	1.00166.34	A16S
ATOM	21898	C2*	U	A1040	216.270	104.491	57.245	1.00169.83	A16S
ATOM	21899	O2*	U	A1040	216.359	103.362	58.091	1.00169.83	A16S
ATOM	21900	C3*	U	A1040	217.409	104.566	56.233	1.00169.83	A16S
ATOM	21901	O3*	U	A1040	217.799	103.276	55.780	1.00169.83	A16S
ATOM	21902	P	A	A1041	217.095	102.642	54.483	1.00176.17	A16S
ATOM	21903	O1P	A	A1041	217.741	101.326	54.242	1.00170.23	A16S
ATOM	21904	O2P	A	A1041	217.106	103.672	53.410	1.00170.23	A16S
ATOM	21905	O5*	A	A1041	215.584	102.396	54.939	1.00176.17	A16S
ATOM	21906	C5*	A	A1041	215.253	101.344	55.873	1.00176.17	A16S
ATOM	21907	C4*	A	A1041	213.842	101.511	56.405	1.00176.17	A16S
ATOM	21908	O4*	A	A1041	213.724	102.776	57.104	1.00176.17	A16S
ATOM	21909	C1*	A	A1041	212.392	103.248	57.008	1.00176.17	A16S
ATOM	21910	N9	A	A1041	212.400	104.609	56.473	1.00170.23	A16S
ATOM	21911	C4	A	A1041	211.502	105.596	56.802	1.00170.23	A16S
ATOM	21912	N3	A	A1041	210.477	105.510	57.668	1.00170.23	A16S
ATOM	21913	C2	A	A1041	209.812	106.661	57.725	1.00170.23	A16S
ATOM	21914	N1	A	A1041	210.038	107.803	57.065	1.00170.23	A16S
ATOM	21915	C6	A	A1041	211.076	107.857	56.203	1.00170.23	A16S
ATOM	21916	N6	A	A1041	211.298	108.997	55.544	1.00170.23	A16S
ATOM	21917	C5	A	A1041	211.861	106.699	56.051	1.00170.23	A16S
ATOM	21918	N7	A	A1041	212.975	106.420	55.270	1.00170.23	A16S
ATOM	21919	C8	A	A1041	213.256	105.172	55.558	1.00170.23	A16S
ATOM	21920	C2*	A	A1041	211.595	102.265	56.147	1.00176.17	A16S
ATOM	21921	O2*	A	A1041	210.832	101.424	56.988	1.00176.17	A16S
ATOM	21922	C3*	A	A1041	212.701	101.526	55.396	1.00176.17	A16S
ATOM	21923	O3*	A	A1041	212.290	100.205	55.051	1.00176.17	A16S
ATOM	21924	P	G	A1042	211.512	99.943	53.666	1.00200.33	A16S
ATOM	21925	O1P	G	A1042	211.220	98.483	53.610	1.00155.12	A16S
ATOM	21926	O2P	G	A1042	212.286	100.577	52.568	1.00155.12	A16S
ATOM	21927	O5*	G	A1042	210.137	100.738	53.831	1.00200.33	A16S
ATOM	21928	C5*	G	A1042	209.043	100.161	54.567	1.00200.33	A16S
ATOM	21929	C4*	G	A1042	207.838	101.081	54.576	1.00200.33	A16S
ATOM	21930	O4*	G	A1042	208.112	102.279	55.347	1.00200.33	A16S
ATOM	21931	C1*	G	A1042	207.228	103.306	54.932	1.00200.33	A16S
ATOM	21932	N9	G	A1042	207.971	104.532	54.662	1.00155.12	A16S
ATOM	21933	C4	G	A1042	207.443	105.802	54.672	1.00155.12	A16S
ATOM	21934	N3	G	A1042	206.159	106.123	54.943	1.00155.12	A16S
ATOM	21935	C2	G	A1042	205.948	107.427	54.875	1.00155.12	A16S
ATOM	21936	N2	G	A1042	204.724	107.919	55.123	1.00155.12	A16S

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ATOM  21937  N1  G   A1042     206.919 108.346  54.562  1.00155.12      A16S
ATOM  21938  C6  G   A1042     208.245 108.042  54.276  1.00155.12      A16S
ATOM  21939  O6  G   A1042     209.037 108.952  54.000  1.00155.12      A16S
ATOM  21940  C5  G   A1042     208.488 106.637  54.350  1.00155.12      A16S
ATOM  21941  N7  G   A1042     209.653 105.909  54.144  1.00155.12      A16S
ATOM  21942  C8  G   A1042     209.299 104.667  54.341  1.00155.12      A16S
ATOM  21943  C2* G   A1042     206.466 102.811  53.705  1.00200.33      A16S
ATOM  21944  O2* G   A1042     205.165 102.447  54.117  1.00200.33      A16S
ATOM  21945  C3* G   A1042     207.313 101.623  53.254  1.00200.33      A16S
ATOM  21946  O3* G   A1042     206.518 100.679  52.545  1.00200.33      A16S
ATOM  21947  P   C   A1043     206.231 100.900  50.975  1.00155.62      A16S
ATOM  21948  O1P C   A1043     205.451  99.725  50.508  1.00177.09      A16S
ATOM  21949  O2P C   A1043     207.513 101.240  50.307  1.00177.09      A16S
ATOM  21950  O5* C   A1043     205.284 102.185  50.923  1.00155.62      A16S
ATOM  21951  C5* C   A1043     204.006 102.180  51.587  1.00155.62      A16S
ATOM  21952  C4* C   A1043     203.413 103.571  51.640  1.00155.62      A16S
ATOM  21953  O4* C   A1043     204.306 104.486  52.327  1.00155.62      A16S
ATOM  21954  C1* C   A1043     204.080 105.803  51.853  1.00155.62      A16S
ATOM  21955  N1  C   A1043     205.361 106.435  51.487  1.00177.09      A16S
ATOM  21956  C6  C   A1043     206.451 105.686  51.139  1.00177.09      A16S
ATOM  21957  C2  C   A1043     205.443 107.838  51.498  1.00177.09      A16S
ATOM  21958  O2  C   A1043     204.442 108.499  51.819  1.00177.09      A16S
ATOM  21959  N3  C   A1043     206.607 108.437  51.159  1.00177.09      A16S
ATOM  21960  C4  C   A1043     207.663 107.696  50.818  1.00177.09      A16S
ATOM  21961  N4  C   A1043     208.793 108.331  50.487  1.00177.09      A16S
ATOM  21962  C5  C   A1043     207.610 106.269  50.800  1.00177.09      A16S
ATOM  21963  C2* C   A1043     203.079 105.733  50.698  1.00155.62      A16S
ATOM  21964  O2* C   A1043     201.810 106.138  51.168  1.00155.62      A16S
ATOM  21965  C3* C   A1043     203.132 104.256  50.313  1.00155.62      A16S
ATOM  21966  O3* C   A1043     201.888 103.821  49.776  1.00155.62      A16S
ATOM  21967  P   A   A1044     201.550 104.094  48.230  1.00167.88      A16S
ATOM  21968  O1P A   A1044     200.205 103.514  47.977  1.00113.49      A16S
ATOM  21969  O2P A   A1044     202.705 103.646  47.415  1.00113.49      A16S
ATOM  21970  O5* A   A1044     201.439 105.682  48.133  1.00167.88      A16S
ATOM  21971  C5* A   A1044     200.229 106.349  48.528  1.00167.88      A16S
ATOM  21972  C4* A   A1044     200.218 107.779  48.039  1.00167.88      A16S
ATOM  21973  O4* A   A1044     201.057 108.617  48.870  1.00167.88      A16S
ATOM  21974  C1* A   A1044     201.546 109.704  48.100  1.00167.88      A16S
ATOM  21975  N9  A   A1044     203.004 109.734  48.182  1.00113.49      A16S
ATOM  21976  C4  A   A1044     203.785 110.838  47.939  1.00113.49      A16S
ATOM  21977  N3  A   A1044     203.371 112.073  47.606  1.00113.49      A16S
ATOM  21978  C2  A   A1044     204.408 112.888  47.443  1.00113.49      A16S
ATOM  21979  N1  A   A1044     205.714 112.629  47.561  1.00113.49      A16S
ATOM  21980  C6  A   A1044     206.097 111.376  47.893  1.00113.49      A16S
ATOM  21981  N6  A   A1044     207.400 111.112  48.001  1.00113.49      A16S
ATOM  21982  C5  A   A1044     205.091 110.418  48.101  1.00113.49      A16S
ATOM  21983  N7  A   A1044     205.135 109.075  48.451  1.00113.49      A16S
ATOM  21984  C8  A   A1044     203.875 108.717  48.487  1.00113.49      A16S
ATOM  21985  C2* A   A1044     201.058 109.526  46.662  1.00167.88      A16S
ATOM  21986  O2* A   A1044     199.952 110.374  46.416  1.00167.88      A16S
ATOM  21987  C3* A   A1044     200.713 108.039  46.628  1.00167.88      A16S
ATOM  21988  O3* A   A1044     199.736 107.759  45.639  1.00167.88      A16S
ATOM  21989  P   C   A1045     200.178 107.668  44.098  1.00126.45      A16S
ATOM  21990  O1P C   A1045     199.302 108.613  43.353  1.00140.56      A16S
ATOM  21991  O2P C   A1045     200.220 106.235  43.708  1.00140.56      A16S
ATOM  21992  O5* C   A1045     201.669 108.235  44.094  1.00126.45      A16S
ATOM  21993  C5* C   A1045     202.172 109.034  43.002  1.00126.45      A16S
ATOM  21994  C4* C   A1045     203.291 109.930  43.485  1.00126.45      A16S
ATOM  21995  O4* C   A1045     204.245 109.142  44.236  1.00126.45      A16S
ATOM  21996  C1* C   A1045     205.558 109.601  43.975  1.00126.45      A16S
ATOM  21997  N1  C   A1045     206.335 108.476  43.429  1.00140.56      A16S
ATOM  21998  C6  C   A1045     205.700 107.377  42.918  1.00140.56      A16S
ATOM  21999  C2  C   A1045     207.735 108.538  43.450  1.00140.56      A16S
ATOM  22000  O2  C   A1045     208.293 109.558  43.894  1.00140.56      A16S
ATOM  22001  N3  C   A1045     208.444 107.486  42.982  1.00140.56      A16S
ATOM  22002  C4  C   A1045     207.809 106.411  42.502  1.00140.56      A16S
ATOM  22003  N4  C   A1045     208.546 105.388  42.061  1.00140.56      A16S
ATOM  22004  C5  C   A1045     206.390 106.334  42.452  1.00140.56      A16S
ATOM  22005  C2* C   A1045     205.462 110.813  43.050  1.00126.45      A16S
ATOM  22006  O2* C   A1045     205.501 111.982  43.836  1.00126.45      A16S
ATOM  22007  C3* C   A1045     204.103 110.604  42.393  1.00126.45      A16S
ATOM  22008  O3* C   A1045     203.513 111.841  42.020  1.00126.45      A16S
ATOM  22009  P   A   A1046     204.009 112.584  40.688  1.00 98.29      A16S
ATOM  22010  O1P A   A1046     203.346 113.917  40.637  1.00 95.79      A16S
ATOM  22011  O2P A   A1046     203.845 111.636  39.559  1.00 95.79      A16S
ATOM  22012  O5* A   A1046     205.568 112.803  40.936  1.00 98.29      A16S
ATOM  22013  C5* A   A1046     206.509 112.732  39.848  1.00 98.29      A16S
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ATOM  22014  C4* A   A1046     207.915 112.955  40.352  1.00 98.29      A16S
ATOM  22015  O4* A   A1046     208.302 111.882  41.255  1.00 98.29      A16S
ATOM  22016  C1* A   A1046     209.680 111.588  41.087  1.00 98.29      A16S
ATOM  22017  N9  A   A1046     209.805 110.210  40.615  1.00 95.79      A16S
ATOM  22018  C4  A   A1046     210.978 109.524  40.397  1.00 95.79      A16S
ATOM  22019  N3  A   A1046     212.230 109.964  40.599  1.00 95.79      A16S
ATOM  22020  C2  A   A1046     213.117 109.031  40.253  1.00 95.79      A16S
ATOM  22021  N1  A   A1046     212.910 107.800  39.763  1.00 95.79      A16S
ATOM  22022  C6  A   A1046     211.638 107.388  39.574  1.00 95.79      A16S
ATOM  22023  N6  A   A1046     211.427 106.163  39.088  1.00 95.79      A16S
ATOM  22024  C5  A   A1046     210.605 108.286  39.904  1.00 95.79      A16S
ATOM  22025  N7  A   A1046     209.223 108.184  39.833  1.00 95.79      A16S
ATOM  22026  C8  A   A1046     208.798 109.344  40.269  1.00 95.79      A16S
ATOM  22027  C2* A   A1046     210.234 112.567  40.053  1.00 98.29      A16S
ATOM  22028  O2* A   A1046     210.779 113.687  40.710  1.00 98.29      A16S
ATOM  22029  C3* A   A1046     208.981 112.930  39.274  1.00 98.29      A16S
ATOM  22030  O3* A   A1046     209.106 114.187  38.636  1.00 98.29      A16S
ATOM  22031  P   G   A1047     209.272 114.248  37.040  1.00 81.61      A16S
ATOM  22032  O1P G   A1047     209.823 115.594  36.714  1.00 74.69      A16S
ATOM  22033  O2P G   A1047     207.999 113.790  36.403  1.00 74.69      A16S
ATOM  22034  O5* G   A1047     210.393 113.162  36.729  1.00 81.61      A16S
ATOM  22035  C5* G   A1047     211.761 113.391  37.085  1.00 81.61      A16S
ATOM  22036  C4* G   A1047     212.602 112.228  36.640  1.00 81.61      A16S
ATOM  22037  O4* G   A1047     212.202 111.044  37.378  1.00 81.61      A16S
ATOM  22038  C1* G   A1047     212.184 109.921  36.514  1.00 81.61      A16S
ATOM  22039  N9  G   A1047     210.791 109.568  36.288  1.00 74.69      A16S
ATOM  22040  C4  G   A1047     210.329 108.387  35.774  1.00 74.69      A16S
ATOM  22041  N3  G   A1047     211.085 107.324  35.440  1.00 74.69      A16S
ATOM  22042  C2  G   A1047     210.363 106.345  34.931  1.00 74.69      A16S
ATOM  22043  N2  G   A1047     210.965 105.218  34.536  1.00 74.69      A16S
ATOM  22044  N1  G   A1047     208.999 106.399  34.771  1.00 74.69      A16S
ATOM  22045  C6  G   A1047     208.194 107.482  35.118  1.00 74.69      A16S
ATOM  22046  O6  G   A1047     206.962 107.425  34.942  1.00 74.69      A16S
ATOM  22047  C5  G   A1047     208.964 108.548  35.657  1.00 74.69      A16S
ATOM  22048  N7  G   A1047     208.575 109.800  36.116  1.00 74.69      A16S
ATOM  22049  C8  G   A1047     209.688 110.364  36.491  1.00 74.69      A16S
ATOM  22050  C2* G   A1047     212.771 110.367  35.178  1.00 81.61      A16S
ATOM  22051  O2* G   A1047     214.155 110.089  35.128  1.00 81.61      A16S
ATOM  22052  C3* G   A1047     212.413 111.846  35.185  1.00 81.61      A16S
ATOM  22053  O3* G   A1047     213.169 112.648  34.297  1.00 81.61      A16S
ATOM  22054  P   G   A1048     212.552 113.018  32.861  1.00 70.53      A16S
ATOM  22055  O1P G   A1048     213.482 113.970  32.215  1.00 72.80      A16S
ATOM  22056  O2P G   A1048     211.129 113.390  33.016  1.00 72.80      A16S
ATOM  22057  O5* G   A1048     212.613 111.629  32.086  1.00 70.53      A16S
ATOM  22058  C5* G   A1048     213.875 110.962  31.902  1.00 70.53      A16S
ATOM  22059  C4* G   A1048     213.717 109.734  31.035  1.00 70.53      A16S
ATOM  22060  O4* G   A1048     213.119 108.653  31.804  1.00 70.53      A16S
ATOM  22061  C1* G   A1048     212.300 107.865  30.955  1.00 70.53      A16S
ATOM  22062  N9  G   A1048     210.902 108.076  31.324  1.00 72.80      A16S
ATOM  22063  C4  G   A1048     209.868 107.206  31.101  1.00 72.80      A16S
ATOM  22064  N3  G   A1048     209.980 105.959  30.601  1.00 72.80      A16S
ATOM  22065  C2  G   A1048     208.803 105.383  30.450  1.00 72.80      A16S
ATOM  22066  N2  G   A1048     208.732 104.130  29.983  1.00 72.80      A16S
ATOM  22067  N1  G   A1048     207.608 105.989  30.751  1.00 72.80      A16S
ATOM  22068  C6  G   A1048     207.467 107.276  31.261  1.00 72.80      A16S
ATOM  22069  O6  G   A1048     206.334 107.739  31.478  1.00 72.80      A16S
ATOM  22070  C5  G   A1048     208.726 107.897  31.451  1.00 72.80      A16S
ATOM  22071  N7  G   A1048     209.043 109.152  31.947  1.00 72.80      A16S
ATOM  22072  C8  G   A1048     210.343 109.208  31.872  1.00 72.80      A16S
ATOM  22073  C2* G   A1048     212.484 108.407  29.534  1.00 70.53      A16S
ATOM  22074  O2* G   A1048     213.534 107.707  28.901  1.00 70.53      A16S
ATOM  22075  C3* G   A1048     212.820 109.863  29.815  1.00 70.53      A16S
ATOM  22076  O3* G   A1048     213.399 110.566  28.726  1.00 70.53      A16S
ATOM  22077  P   U   A1049     212.745 111.972  28.258  1.00 64.35      A16S
ATOM  22078  O1P U   A1049     213.527 113.073  28.874  1.00 75.50      A16S
ATOM  22079  O2P U   A1049     211.270 111.926  28.468  1.00 75.50      A16S
ATOM  22080  O5* U   A1049     213.017 112.045  26.689  1.00 64.35      A16S
ATOM  22081  C5* U   A1049     212.780 110.906  25.831  1.00 64.35      A16S
ATOM  22082  C4* U   A1049     214.064 110.505  25.156  1.00 64.35      A16S
ATOM  22083  O4* U   A1049     214.506 111.589  24.321  1.00 64.35      A16S
ATOM  22084  C1* U   A1049     215.914 111.622  24.306  1.00 64.35      A16S
ATOM  22085  N1  U   A1049     216.351 113.021  24.236  1.00 75.50      A16S
ATOM  22086  C6  U   A1049     215.467 114.053  24.421  1.00 75.50      A16S
ATOM  22087  C2  U   A1049     217.671 113.265  23.940  1.00 75.50      A16S
ATOM  22088  O2  U   A1049     218.498 112.377  23.815  1.00 75.50      A16S
ATOM  22089  N3  U   A1049     217.993 114.589  23.796  1.00 75.50      A16S
ATOM  22090  C4  U   A1049     217.147 115.667  23.930  1.00 75.50      A16S
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ATOM  22091  O4  U   A1049     217.560 116.797  23.673  1.00 75.50      A16S
ATOM  22092  C5  U   A1049     215.809 115.331  24.280  1.00 75.50      A16S
ATOM  22093  C2* U   A1049     216.467 110.751  25.437  1.00 64.35      A16S
ATOM  22094  O2* U   A1049     217.312 109.754  24.927  1.00 64.35      A16S
ATOM  22095  C3* U   A1049     215.199 110.256  26.136  1.00 64.35      A16S
ATOM  22096  O3* U   A1049     215.183 108.878  26.559  1.00 64.35      A16S
ATOM  22097  P   G   A1050     215.446 107.682  25.499  1.00 81.62      A16S
ATOM  22098  O1P G   A1050     216.575 106.843  25.990  1.00 57.85      A16S
ATOM  22099  O2P G   A1050     215.500 108.239  24.134  1.00 57.85      A16S
ATOM  22100  O5* G   A1050     214.124 106.789  25.557  1.00 81.62      A16S
ATOM  22101  C5* G   A1050     214.194 105.410  25.172  1.00 81.62      A16S
ATOM  22102  C4* G   A1050     212.825 104.820  24.882  1.00 81.62      A16S
ATOM  22103  O4* G   A1050     212.025 104.739  26.088  1.00 81.62      A16S
ATOM  22104  C1* G   A1050     210.672 104.532  25.722  1.00 81.62      A16S
ATOM  22105  N9  G   A1050     209.817 105.542  26.336  1.00 57.85      A16S
ATOM  22106  C4  G   A1050     208.448 105.555  26.278  1.00 57.85      A16S
ATOM  22107  N3  G   A1050     207.679 104.620  25.689  1.00 57.85      A16S
ATOM  22108  C2  G   A1050     206.398 104.935  25.739  1.00 57.85      A16S
ATOM  22109  N2  G   A1050     205.489 104.120  25.171  1.00 57.85      A16S
ATOM  22110  N1  G   A1050     205.913 106.073  26.338  1.00 57.85      A16S
ATOM  22111  C6  G   A1050     206.692 107.047  26.951  1.00 57.85      A16S
ATOM  22112  O6  G   A1050     206.158 108.046  27.440  1.00 57.85      A16S
ATOM  22113  C5  G   A1050     208.065 106.721  26.899  1.00 57.85      A16S
ATOM  22114  N7  G   A1050     209.169 107.410  27.375  1.00 57.85      A16S
ATOM  22115  C8  G   A1050     210.187 106.669  27.028  1.00 57.85      A16S
ATOM  22116  C2* G   A1050     210.589 104.652  24.200  1.00 81.62      A16S
ATOM  22117  O2* G   A1050     210.621 103.348  23.653  1.00 81.62      A16S
ATOM  22118  C3* G   A1050     211.862 105.419  23.863  1.00 81.62      A16S
ATOM  22119  O3* G   A1050     212.183 105.148  22.499  1.00 81.62      A16S
ATOM  22120  P   C   A1051     211.372 105.903  21.320  1.00 66.42      A16S
ATOM  22121  O1P C   A1051     211.966 105.510  20.016  1.00 61.48      A16S
ATOM  22122  O2P C   A1051     211.232 107.344  21.658  1.00 61.48      A16S
ATOM  22123  O5* C   A1051     209.913 105.269  21.367  1.00 66.42      A16S
ATOM  22124  C5* C   A1051     209.670 103.937  20.871  1.00 66.42      A16S
ATOM  22125  C4* C   A1051     208.201 103.739  20.575  1.00 66.42      A16S
ATOM  22126  O4* C   A1051     207.427 103.797  21.804  1.00 66.42      A16S
ATOM  22127  C1* C   A1051     206.171 104.412  21.551  1.00 66.42      A16S
ATOM  22128  N1  C   A1051     206.076 105.650  22.356  1.00 61.48      A16S
ATOM  22129  C6  C   A1051     207.192 106.392  22.634  1.00 61.48      A16S
ATOM  22130  C2  C   A1051     204.818 106.069  22.818  1.00 61.48      A16S
ATOM  22131  O2  C   A1051     203.826 105.372  22.581  1.00 61.48      A16S
ATOM  22132  N3  C   A1051     204.723 107.224  23.514  1.00 61.48      A16S
ATOM  22133  C4  C   A1051     205.820 107.950  23.763  1.00 61.48      A16S
ATOM  22134  N4  C   A1051     205.677 109.100  24.435  1.00 61.48      A16S
ATOM  22135  C5  C   A1051     207.111 107.536  23.327  1.00 61.48      A16S
ATOM  22136  C2* C   A1051     206.099 104.704  20.051  1.00 66.42      A16S
ATOM  22137  O2* C   A1051     205.433 103.648  19.381  1.00 66.42      A16S
ATOM  22138  C3* C   A1051     207.574 104.793  19.687  1.00 66.42      A16S
ATOM  22139  O3* C   A1051     207.820 104.564  18.316  1.00 66.42      A16S
ATOM  22140  P   U   A1052     207.744 105.799  17.291  1.00 67.30      A16S
ATOM  22141  O1P U   A1052     208.120 105.250  15.963  1.00 79.60      A16S
ATOM  22142  O2P U   A1052     208.478 106.975  17.838  1.00 79.60      A16S
ATOM  22143  O5* U   A1052     206.200 106.182  17.272  1.00 67.30      A16S
ATOM  22144  C5* U   A1052     205.219 105.229  16.836  1.00 67.30      A16S
ATOM  22145  C4* U   A1052     203.838 105.782  17.028  1.00 67.30      A16S
ATOM  22146  O4* U   A1052     203.585 105.951  18.442  1.00 67.30      A16S
ATOM  22147  C1* U   A1052     202.750 107.078  18.640  1.00 67.30      A16S
ATOM  22148  N1  U   A1052     203.429 108.045  19.522  1.00 79.60      A16S
ATOM  22149  C6  U   A1052     204.660 107.788  20.064  1.00 79.60      A16S
ATOM  22150  C2  U   A1052     202.783 109.245  19.788  1.00 79.60      A16S
ATOM  22151  O2  U   A1052     201.686 109.521  19.346  1.00 79.60      A16S
ATOM  22152  N3  U   A1052     203.467 110.110  20.596  1.00 79.60      A16S
ATOM  22153  C4  U   A1052     204.691 109.913  21.167  1.00 79.60      A16S
ATOM  22154  O4  U   A1052     205.126 110.749  21.959  1.00 79.60      A16S
ATOM  22155  C5  U   A1052     205.297 108.658  20.851  1.00 79.60      A16S
ATOM  22156  C2* U   A1052     202.429 107.657  17.261  1.00 67.30      A16S
ATOM  22157  O2* U   A1052     201.187 107.143  16.817  1.00 67.30      A16S
ATOM  22158  C3* U   A1052     203.592 107.153  16.426  1.00 67.30      A16S
ATOM  22159  O3* U   A1052     203.212 107.066  15.063  1.00 67.30      A16S
ATOM  22160  P   G   A1053     204.018 107.894  13.942  1.00 55.66      A16S
ATOM  22161  O1P G   A1053     203.272 107.686  12.664  1.00 61.72      A16S
ATOM  22162  O2P G   A1053     205.450 107.512  14.028  1.00 61.72      A16S
ATOM  22163  O5* G   A1053     203.884 109.432  14.353  1.00 55.66      A16S
ATOM  22164  C5* G   A1053     204.497 110.456  13.539  1.00 55.66      A16S
ATOM  22165  C4* G   A1053     203.668 111.712  13.548  1.00 55.66      A16S
ATOM  22166  O4* G   A1053     204.008 112.503  14.717  1.00 55.66      A16S
ATOM  22167  C1* G   A1053     204.333 113.819  14.311  1.00 55.66      A16S
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ATOM  22168  N9  G   A1053     205.396 114.364  15.149  1.00 61.72      A16S
ATOM  22169  C4  G   A1053     205.341 115.564  15.799  1.00 61.72      A16S
ATOM  22170  N3  G   A1053     204.297 116.417  15.783  1.00 61.72      A16S
ATOM  22171  C2  G   A1053     204.538 117.498  16.492  1.00 61.72      A16S
ATOM  22172  N2  G   A1053     203.605 118.445  16.591  1.00 61.72      A16S
ATOM  22173  N1  G   A1053     205.714 117.729  17.160  1.00 61.72      A16S
ATOM  22174  C6  G   A1053     206.806 116.866  17.187  1.00 61.72      A16S
ATOM  22175  O6  G   A1053     207.825 117.173  17.829  1.00 61.72      A16S
ATOM  22176  C5  G   A1053     206.559 115.697  16.430  1.00 61.72      A16S
ATOM  22177  N7  G   A1053     207.367 114.596  16.181  1.00 61.72      A16S
ATOM  22178  C8  G   A1053     206.635 113.827  15.423  1.00 61.72      A16S
ATOM  22179  C2* G   A1053     204.774 113.730  12.858  1.00 55.66      A16S
ATOM  22180  O2* G   A1053     204.514 114.963  12.213  1.00 55.66      A16S
ATOM  22181  C3* G   A1053     203.882 112.621  12.336  1.00 55.66      A16S
ATOM  22182  O3* G   A1053     202.666 113.218  11.907  1.00 55.66      A16S
ATOM  22183  P   C   A1054     202.283 113.188  10.355  1.00 53.93      A16S
ATOM  22184  O1P C   A1054     203.360 113.867   9.615  1.00 48.72      A16S
ATOM  22185  O2P C   A1054     200.890 113.656  10.207  1.00 48.72      A16S
ATOM  22186  O5* C   A1054     202.329 111.630  10.034  1.00 53.93      A16S
ATOM  22187  C5* C   A1054     202.086 110.657  11.090  1.00 53.93      A16S
ATOM  22188  C4* C   A1054     200.840 111.042  11.848  1.00 53.93      A16S
ATOM  22189  O4* C   A1054     199.816 111.244  10.851  1.00 53.93      A16S
ATOM  22190  C1* C   A1054     198.598 110.721  11.312  1.00 53.93      A16S
ATOM  22191  N1  C   A1054     198.241 109.602  10.418  1.00 48.72      A16S
ATOM  22192  C6  C   A1054     197.298 109.805   9.451  1.00 48.72      A16S
ATOM  22193  C2  C   A1054     198.891 108.356  10.517  1.00 48.72      A16S
ATOM  22194  O2  C   A1054     199.693 108.143  11.450  1.00 48.72      A16S
ATOM  22195  N3  C   A1054     198.614 107.410   9.584  1.00 48.72      A16S
ATOM  22196  C4  C   A1054     197.725 107.654   8.616  1.00 48.72      A16S
ATOM  22197  N4  C   A1054     197.516 106.725   7.696  1.00 48.72      A16S
ATOM  22198  C5  C   A1054     197.018 108.869   8.541  1.00 48.72      A16S
ATOM  22199  C2* C   A1054     198.774 110.411  12.794  1.00 53.93      A16S
ATOM  22200  O2* C   A1054     198.538 111.600  13.540  1.00 53.93      A16S
ATOM  22201  C3* C   A1054     200.249 110.065  12.861  1.00 53.93      A16S
ATOM  22202  O3* C   A1054     200.701 110.256  14.201  1.00 53.93      A16S
ATOM  22203  P   A   A1055     199.918 109.535  15.421  1.00 41.88      A16S
ATOM  22204  O1P A   A1055     200.745 109.718  16.620  1.00 69.25      A16S
ATOM  22205  O2P A   A1055     199.507 108.158  15.009  1.00 69.25      A16S
ATOM  22206  O5* A   A1055     198.634 110.450  15.679  1.00 41.88      A16S
ATOM  22207  C5* A   A1055     197.285 109.955  15.431  1.00 41.88      A16S
ATOM  22208  C4* A   A1055     196.256 110.874  16.054  1.00 41.88      A16S
ATOM  22209  O4* A   A1055     196.261 110.667  17.489  1.00 41.88      A16S
ATOM  22210  C1* A   A1055     196.118 111.909  18.150  1.00 41.88      A16S
ATOM  22211  N9  A   A1055     197.354 112.172  18.897  1.00 69.25      A16S
ATOM  22212  C4  A   A1055     197.601 113.245  19.725  1.00 69.25      A16S
ATOM  22213  N3  A   A1055     196.757 114.235  20.056  1.00 69.25      A16S
ATOM  22214  C2  A   A1055     197.359 115.124  20.845  1.00 69.25      A16S
ATOM  22215  N1  A   A1055     198.611 115.141  21.298  1.00 69.25      A16S
ATOM  22216  C6  A   A1055     199.434 114.137  20.942  1.00 69.25      A16S
ATOM  22217  N6  A   A1055     200.689 114.167  21.374  1.00 69.25      A16S
ATOM  22218  C5  A   A1055     198.916 113.119  20.124  1.00 69.25      A16S
ATOM  22219  N7  A   A1055     199.481 111.966  19.596  1.00 69.25      A16S
ATOM  22220  C8  A   A1055     198.515 111.436  18.887  1.00 69.25      A16S
ATOM  22221  C2* A   A1055     195.841 112.975  17.082  1.00 41.88      A16S
ATOM  22222  O2* A   A1055     194.451 113.139  16.917  1.00 41.88      A16S
ATOM  22223  C3* A   A1055     196.491 112.365  15.850  1.00 41.88      A16S
ATOM  22224  O3* A   A1055     195.881 112.854  14.656  1.00 41.88      A16S
ATOM  22225  P   U   A1056     196.361 114.264  14.028  1.00 28.80      A16S
ATOM  22226  O1P U   A1056     195.300 114.747  13.111  1.00 81.46      A16S
ATOM  22227  O2P U   A1056     197.755 114.122  13.527  1.00 81.46      A16S
ATOM  22228  O5* U   A1056     196.411 115.257  15.276  1.00 28.80      A16S
ATOM  22229  C5* U   A1056     197.234 116.442  15.244  1.00 28.80      A16S
ATOM  22230  C4* U   A1056     197.153 117.174  16.560  1.00 28.80      A16S
ATOM  22231  O4* U   A1056     197.711 116.349  17.609  1.00 28.80      A16S
ATOM  22232  C1* U   A1056     198.360 117.173  18.564  1.00 28.80      A16S
ATOM  22233  N1  U   A1056     199.754 116.730  18.732  1.00 81.46      A16S
ATOM  22234  C6  U   A1056     200.339 115.821  17.880  1.00 81.46      A16S
ATOM  22235  C2  U   A1056     200.471 117.277  19.780  1.00 81.46      A16S
ATOM  22236  O2  U   A1056     199.981 118.067  20.575  1.00 81.46      A16S
ATOM  22237  N3  U   A1056     201.778 116.865  19.866  1.00 81.46      A16S
ATOM  22238  C4  U   A1056     202.429 115.975  19.036  1.00 81.46      A16S
ATOM  22239  O4  U   A1056     203.631 115.741  19.213  1.00 81.46      A16S
ATOM  22240  C5  U   A1056     201.615 115.436  17.994  1.00 81.46      A16S
ATOM  22241  C2* U   A1056     198.250 118.625  18.096  1.00 28.80      A16S
ATOM  22242  O2* U   A1056     197.199 119.266  18.775  1.00 28.80      A16S
ATOM  22243  C3* U   A1056     197.958 118.456  16.618  1.00 28.80      A16S
ATOM  22244  O3* U   A1056     197.197 119.535  16.143  1.00 28.80      A16S
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ATOM  22245  P    G    A1057     197.933 120.738  15.391  1.00 41.60      A16S
ATOM  22246  O1P  G    A1057     196.914 121.502  14.627  1.00 70.81      A16S
ATOM  22247  O2P  G    A1057     199.136 120.207  14.689  1.00 70.81      A16S
ATOM  22248  O5*  G    A1057     198.448 121.672  16.571  1.00 41.60      A16S
ATOM  22249  C5*  G    A1057     197.526 122.287  17.488  1.00 41.60      A16S
ATOM  22250  C4*  G    A1057     198.282 123.035  18.556  1.00 41.60      A16S
ATOM  22251  O4*  G    A1057     199.071 122.109  19.333  1.00 41.60      A16S
ATOM  22252  C1*  G    A1057     200.233 122.760  19.789  1.00 41.60      A16S
ATOM  22253  N9   G    A1057     201.382 121.901  19.537  1.00 70.81      A16S
ATOM  22254  C4   G    A1057     202.671 122.116  19.964  1.00 70.81      A16S
ATOM  22255  N3   G    A1057     203.101 123.164  20.691  1.00 70.81      A16S
ATOM  22256  C2   G    A1057     204.390 123.076  20.962  1.00 70.81      A16S
ATOM  22257  N2   G    A1057     204.991 124.025  21.683  1.00 70.81      A16S
ATOM  22258  N1   G    A1057     205.188 122.050  20.550  1.00 70.81      A16S
ATOM  22259  C6   G    A1057     204.767 120.968  19.795  1.00 70.81      A16S
ATOM  22260  O6   G    A1057     205.573 120.102  19.466  1.00 70.81      A16S
ATOM  22261  C5   G    A1057     203.390 121.041  19.503  1.00 70.81      A16S
ATOM  22262  N7   G    A1057     202.574 120.164  18.803  1.00 70.81      A16S
ATOM  22263  C8   G    A1057     201.395 120.716  18.845  1.00 70.81      A16S
ATOM  22264  C2*  G    A1057     200.294 124.156  19.164  1.00 41.60      A16S
ATOM  22265  O2*  G    A1057     199.962 125.120  20.139  1.00 41.60      A16S
ATOM  22266  C3*  G    A1057     199.269 124.062  18.041  1.00 41.60      A16S
ATOM  22267  O3*  G    A1057     198.590 125.296  17.875  1.00 41.60      A16S
ATOM  22268  P    G    A1058     199.064 126.321  16.738  1.00 55.89      A16S
ATOM  22269  O1P  G    A1058     198.389 127.626  16.958  1.00 75.15      A16S
ATOM  22270  O2P  G    A1058     198.921 125.640  15.425  1.00 75.15      A16S
ATOM  22271  O5*  G    A1058     200.603 126.528  17.069  1.00 55.89      A16S
ATOM  22272  C5*  G    A1058     200.986 127.099  18.319  1.00 55.89      A16S
ATOM  22273  C4*  G    A1058     202.471 126.996  18.510  1.00 55.89      A16S
ATOM  22274  O4*  G    A1058     202.869 125.646  18.832  1.00 55.89      A16S
ATOM  22275  C1*  G    A1058     204.166 125.411  18.321  1.00 55.89      A16S
ATOM  22276  N9   G    A1058     204.124 124.215  17.489  1.00 75.15      A16S
ATOM  22277  C4   G    A1058     205.184 123.400  17.161  1.00 75.15      A16S
ATOM  22278  N3   G    A1058     206.464 123.562  17.551  1.00 75.15      A16S
ATOM  22279  C2   G    A1058     207.244 122.613  17.073  1.00 75.15      A16S
ATOM  22280  N2   G    A1058     208.548 122.611  17.357  1.00 75.15      A16S
ATOM  22281  N1   G    A1058     206.804 121.591  16.277  1.00 75.15      A16S
ATOM  22282  C6   G    A1058     205.493 121.413  15.857  1.00 75.15      A16S
ATOM  22283  O6   G    A1058     205.202 120.468  15.119  1.00 75.15      A16S
ATOM  22284  C5   G    A1058     204.649 122.413  16.366  1.00 75.15      A16S
ATOM  22285  N7   G    A1058     203.287 122.601  16.196  1.00 75.15      A16S
ATOM  22286  C8   G    A1058     203.021 123.678  16.879  1.00 75.15      A16S
ATOM  22287  C2*  G    A1058     204.621 126.673  17.582  1.00 55.89      A16S
ATOM  22288  O2*  G    A1058     205.452 127.426  18.440  1.00 55.89      A16S
ATOM  22289  C3*  G    A1058     203.301 127.378  17.307  1.00 55.89      A16S
ATOM  22290  O3*  G    A1058     203.440 128.784  17.281  1.00 55.89      A16S
ATOM  22291  P    C    A1059     203.589 129.536  15.881  1.00 40.37      A16S
ATOM  22292  O1P  C    A1059     203.790 130.989  16.140  1.00 78.92      A16S
ATOM  22293  O2P  C    A1059     202.473 129.097  15.015  1.00 78.92      A16S
ATOM  22294  O5*  C    A1059     204.945 128.928  15.317  1.00 40.37      A16S
ATOM  22295  C5*  C    A1059     206.191 129.171  15.992  1.00 40.37      A16S
ATOM  22296  C4*  C    A1059     207.317 128.387  15.349  1.00 40.37      A16S
ATOM  22297  O4*  C    A1059     207.234 126.987  15.719  1.00 40.37      A16S
ATOM  22298  C1*  C    A1059     207.722 126.193  14.657  1.00 40.37      A16S
ATOM  22299  N1   C    A1059     206.638 125.306  14.187  1.00 78.92      A16S
ATOM  22300  C6   C    A1059     205.389 125.793  13.914  1.00 78.92      A16S
ATOM  22301  C2   C    A1059     206.913 123.948  14.016  1.00 78.92      A16S
ATOM  22302  O2   C    A1059     208.050 123.531  14.272  1.00 78.92      A16S
ATOM  22303  N3   C    A1059     205.936 123.123  13.576  1.00 78.92      A16S
ATOM  22304  C4   C    A1059     204.722 123.606  13.315  1.00 78.92      A16S
ATOM  22305  N4   C    A1059     203.787 122.749  12.892  1.00 78.92      A16S
ATOM  22306  C5   C    A1059     204.410 124.986  13.480  1.00 78.92      A16S
ATOM  22307  C2*  C    A1059     208.221 127.141  13.567  1.00 40.37      A16S
ATOM  22308  O2*  C    A1059     209.585 127.434  13.797  1.00 40.37      A16S
ATOM  22309  C3*  C    A1059     207.385 128.378  13.830  1.00 40.37      A16S
ATOM  22310  O3*  C    A1059     208.000 129.532  13.276  1.00 40.37      A16S
ATOM  22311  P    C    A1060     207.692 129.930  11.749  1.00 43.98      A16S
ATOM  22312  O1P  C    A1060     208.330 131.245  11.453  1.00 67.96      A16S
ATOM  22313  O2P  C    A1060     206.227 129.769  11.540  1.00 67.96      A16S
ATOM  22314  O5*  C    A1060     208.459 128.804  10.910  1.00 43.98      A16S
ATOM  22315  C5*  C    A1060     209.900 128.647  11.010  1.00 43.98      A16S
ATOM  22316  C4*  C    A1060     210.385 127.421  10.240  1.00 43.98      A16S
ATOM  22317  O4*  C    A1060     209.888 126.203  10.852  1.00 43.98      A16S
ATOM  22318  C1*  C    A1060     209.706 125.211   9.860  1.00 43.98      A16S
ATOM  22319  N1   C    A1060     208.281 124.860   9.792  1.00 67.96      A16S
ATOM  22320  C6   C    A1060     207.313 125.761  10.133  1.00 67.96      A16S
ATOM  22321  C2   C    A1060     207.931 123.594   9.341  1.00 67.96      A16S
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ATOM  22322  O2  C   A1060     208.827 122.790   9.064  1.00 67.96      A16S
ATOM  22323  N3  C   A1060     206.627 123.274   9.215  1.00 67.96      A16S
ATOM  22324  C4  C   A1060     205.691 124.169   9.522  1.00 67.96      A16S
ATOM  22325  N4  C   A1060     204.417 123.826   9.349  1.00 67.96      A16S
ATOM  22326  C5  C   A1060     206.020 125.461  10.012  1.00 67.96      A16S
ATOM  22327  C2* C   A1060     210.164 125.794   8.527  1.00 43.98      A16S
ATOM  22328  O2* C   A1060     211.491 125.381   8.305  1.00 43.98      A16S
ATOM  22329  C3* C   A1060     210.013 127.292   8.769  1.00 43.98      A16S
ATOM  22330  O3* C   A1060     210.894 128.044   7.944  1.00 43.98      A16S
ATOM  22331  P   G   A1061     210.490 128.374   6.422  1.00 40.31      A16S
ATOM  22332  O1P G   A1061     211.530 129.273   5.875  1.00 62.15      A16S
ATOM  22333  O2P G   A1061     209.073 128.787   6.363  1.00 62.15      A16S
ATOM  22334  O5* G   A1061     210.625 126.973   5.680  1.00 40.31      A16S
ATOM  22335  C5* G   A1061     211.889 126.300   5.588  1.00 40.31      A16S
ATOM  22336  C4* G   A1061     211.750 125.044   4.768  1.00 40.31      A16S
ATOM  22337  O4* G   A1061     210.894 124.100   5.458  1.00 40.31      A16S
ATOM  22338  C1* G   A1061     210.089 123.400   4.513  1.00 40.31      A16S
ATOM  22339  N9  G   A1061     208.677 123.677   4.793  1.00 62.15      A16S
ATOM  22340  C4  G   A1061     207.584 123.019   4.279  1.00 62.15      A16S
ATOM  22341  N3  G   A1061     207.614 121.990   3.413  1.00 62.15      A16S
ATOM  22342  C2  G   A1061     206.401 121.554   3.130  1.00 62.15      A16S
ATOM  22343  N2  G   A1061     206.243 120.530   2.291  1.00 62.15      A16S
ATOM  22344  N1  G   A1061     205.252 122.088   3.651  1.00 62.15      A16S
ATOM  22345  C6  G   A1061     205.200 123.152   4.541  1.00 62.15      A16S
ATOM  22346  O6  G   A1061     204.107 123.564   4.953  1.00 62.15      A16S
ATOM  22347  C5  G   A1061     206.490 123.624   4.854  1.00 62.15      A16S
ATOM  22348  N7  G   A1061     206.880 124.647   5.698  1.00 62.15      A16S
ATOM  22349  C8  G   A1061     208.180 124.644   5.629  1.00 62.15      A16S
ATOM  22350  C2* G   A1061     210.525 123.860   3.123  1.00 40.31      A16S
ATOM  22351  O2* G   A1061     211.542 123.002   2.652  1.00 40.31      A16S
ATOM  22352  C3* G   A1061     211.084 125.236   3.420  1.00 40.31      A16S
ATOM  22353  O3* G   A1061     212.004 125.613   2.437  1.00 40.31      A16S
ATOM  22354  P   U   A1062     211.494 126.466   1.189  1.00 44.78      A16S
ATOM  22355  O1P U   A1062     212.642 126.596   0.255  1.00 79.97      A16S
ATOM  22356  O2P U   A1062     210.837 127.687   1.712  1.00 79.97      A16S
ATOM  22357  O5* U   A1062     210.378 125.534   0.530  1.00 44.78      A16S
ATOM  22358  C5* U   A1062     210.724 124.260  -0.075  1.00 44.78      A16S
ATOM  22359  C4* U   A1062     209.499 123.597  -0.678  1.00 44.78      A16S
ATOM  22360  O4* U   A1062     208.598 123.155   0.369  1.00 44.78      A16S
ATOM  22361  C1* U   A1062     207.253 123.310  -0.066  1.00 44.78      A16S
ATOM  22362  N1  U   A1062     206.552 124.209   0.870  1.00 79.97      A16S
ATOM  22363  C6  U   A1062     207.154 125.343   1.360  1.00 79.97      A16S
ATOM  22364  C2  U   A1062     205.262 123.884   1.237  1.00 79.97      A16S
ATOM  22365  O2  U   A1062     204.688 122.886   0.842  1.00 79.97      A16S
ATOM  22366  N3  U   A1062     204.666 124.768   2.093  1.00 79.97      A16S
ATOM  22367  C4  U   A1062     205.212 125.912   2.614  1.00 79.97      A16S
ATOM  22368  O4  U   A1062     204.559 126.583   3.408  1.00 79.97      A16S
ATOM  22369  C5  U   A1062     206.543 126.181   2.195  1.00 79.97      A16S
ATOM  22370  C2* U   A1062     207.277 123.840  -1.505  1.00 44.78      A16S
ATOM  22371  O2* U   A1062     207.133 122.790  -2.440  1.00 44.78      A16S
ATOM  22372  C3* U   A1062     208.652 124.480  -1.578  1.00 44.78      A16S
ATOM  22373  O3* U   A1062     209.126 124.455  -2.898  1.00 44.78      A16S
ATOM  22374  P   C   A1063     209.228 125.821  -3.721  1.00 33.05      A16S
ATOM  22375  O1P C   A1063     210.458 125.732  -4.551  1.00 67.47      A16S
ATOM  22376  O2P C   A1063     209.057 126.961  -2.784  1.00 67.47      A16S
ATOM  22377  O5* C   A1063     207.970 125.787  -4.694  1.00 33.05      A16S
ATOM  22378  C5* C   A1063     207.777 124.698  -5.613  1.00 33.05      A16S
ATOM  22379  C4* C   A1063     206.316 124.565  -5.955  1.00 33.05      A16S
ATOM  22380  O4* C   A1063     205.596 124.130  -4.779  1.00 33.05      A16S
ATOM  22381  C1* C   A1063     204.323 124.737  -4.750  1.00 33.05      A16S
ATOM  22382  N1  C   A1063     204.211 125.517  -3.504  1.00 67.47      A16S
ATOM  22383  C6  C   A1063     205.296 126.159  -2.980  1.00 67.47      A16S
ATOM  22384  C2  C   A1063     202.970 125.607  -2.871  1.00 67.47      A16S
ATOM  22385  O2  C   A1063     202.003 124.996  -3.351  1.00 67.47      A16S
ATOM  22386  N3  C   A1063     202.853 126.355  -1.750  1.00 67.47      A16S
ATOM  22387  C4  C   A1063     203.917 126.986  -1.258  1.00 67.47      A16S
ATOM  22388  N4  C   A1063     203.756 127.716  -0.158  1.00 67.47      A16S
ATOM  22389  C5  C   A1063     205.193 126.897  -1.872  1.00 67.47      A16S
ATOM  22390  C2* C   A1063     204.183 125.594  -6.014  1.00 33.05      A16S
ATOM  22391  O2* C   A1063     203.558 124.866  -7.039  1.00 33.05      A16S
ATOM  22392  C3* C   A1063     205.628 125.849  -6.387  1.00 33.05      A16S
ATOM  22393  O3* C   A1063     205.733 126.047  -7.784  1.00 33.05      A16S
ATOM  22394  P   G   A1064     205.526 127.514  -8.395  1.00 36.00      A16S
ATOM  22395  O1P G   A1064     204.076 127.800  -8.303  1.00 72.79      A16S
ATOM  22396  O2P G   A1064     206.203 127.595  -9.713  1.00 72.79      A16S
ATOM  22397  O5* G   A1064     206.315 128.444  -7.366  1.00 36.00      A16S
ATOM  22398  C5* G   A1064     206.744 129.796  -7.701  1.00 36.00      A16S
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ATOM  22399  C4* G   A1064     207.068 130.551  -6.427  1.00 36.00      A16S
ATOM  22400  O4* G   A1064     205.815 130.803  -5.744  1.00 36.00      A16S
ATOM  22401  C1* G   A1064     205.831 130.163  -4.493  1.00 36.00      A16S
ATOM  22402  N9  G   A1064     204.480 129.707  -4.193  1.00 72.79      A16S
ATOM  22403  C4  G   A1064     203.813 129.935  -3.027  1.00 72.79      A16S
ATOM  22404  N3  G   A1064     204.293 130.612  -1.975  1.00 72.79      A16S
ATOM  22405  C2  G   A1064     203.430 130.663  -0.996  1.00 72.79      A16S
ATOM  22406  N2  G   A1064     203.755 131.291   0.123  1.00 72.79      A16S
ATOM  22407  N1  G   A1064     202.186 130.099  -1.038  1.00 72.79      A16S
ATOM  22408  C6  G   A1064     201.668 129.394  -2.111  1.00 72.79      A16S
ATOM  22409  O6  G   A1064     200.533 128.915  -2.038  1.00 72.79      A16S
ATOM  22410  C5  G   A1064     202.589 129.332  -3.177  1.00 72.79      A16S
ATOM  22411  N7  G   A1064     202.484 128.739  -4.425  1.00 72.79      A16S
ATOM  22412  C8  G   A1064     203.631 128.987  -4.994  1.00 72.79      A16S
ATOM  22413  C2* G   A1064     206.906 129.077  -4.571  1.00 36.00      A16S
ATOM  22414  O2* G   A1064     207.415 128.737  -3.305  1.00 36.00      A16S
ATOM  22415  C3* G   A1064     207.950 129.757  -5.447  1.00 36.00      A16S
ATOM  22416  O3* G   A1064     208.741 130.590  -4.556  1.00 36.00      A16S
ATOM  22417  P   U   A1065     210.012 131.442  -5.097  1.00 44.17      A16S
ATOM  22418  O1P U   A1065     210.319 131.074  -6.506  1.00 96.05      A16S
ATOM  22419  O2P U   A1065     211.087 131.375  -4.074  1.00 96.05      A16S
ATOM  22420  O5* U   A1065     209.434 132.924  -5.127  1.00 44.17      A16S
ATOM  22421  C5* U   A1065     208.222 133.178  -5.842  1.00 44.17      A16S
ATOM  22422  C4* U   A1065     207.724 134.577  -5.619  1.00 44.17      A16S
ATOM  22423  O4* U   A1065     207.334 134.828  -4.262  1.00 44.17      A16S
ATOM  22424  C1* U   A1065     207.046 136.193  -4.195  1.00 44.17      A16S
ATOM  22425  N1  U   A1065     206.938 136.624  -2.797  1.00 96.05      A16S
ATOM  22426  C6  U   A1065     207.681 136.052  -1.796  1.00 96.05      A16S
ATOM  22427  C2  U   A1065     206.041 137.639  -2.527  1.00 96.05      A16S
ATOM  22428  O2  U   A1065     205.373 138.180  -3.390  1.00 96.05      A16S
ATOM  22429  N3  U   A1065     205.959 138.003  -1.212  1.00 96.05      A16S
ATOM  22430  C4  U   A1065     206.671 137.472  -0.160  1.00 96.05      A16S
ATOM  22431  O4  U   A1065     206.480 137.903   0.976  1.00 96.05      A16S
ATOM  22432  C5  U   A1065     207.583 136.432  -0.520  1.00 96.05      A16S
ATOM  22433  C2* U   A1065     208.110 136.884  -5.050  1.00 44.17      A16S
ATOM  22434  O2* U   A1065     207.489 137.923  -5.770  1.00 44.17      A16S
ATOM  22435  C3* U   A1065     208.667 135.722  -5.894  1.00 44.17      A16S
ATOM  22436  O3* U   A1065     208.854 135.924  -7.302  1.00 44.17      A16S
ATOM  22437  P   C   A1066     207.603 136.195  -8.283  1.00 49.70      A16S
ATOM  22438  O1P C   A1066     208.206 136.182  -9.642  1.00 72.11      A16S
ATOM  22439  O2P C   A1066     206.787 137.369  -7.867  1.00 72.11      A16S
ATOM  22440  O5* C   A1066     206.689 134.891  -8.153  1.00 49.70      A16S
ATOM  22441  C5* C   A1066     206.740 133.834  -9.143  1.00 49.70      A16S
ATOM  22442  C4* C   A1066     205.405 133.116  -9.241  1.00 49.70      A16S
ATOM  22443  O4* C   A1066     205.153 132.352  -8.038  1.00 49.70      A16S
ATOM  22444  C1* C   A1066     203.758 132.293  -7.810  1.00 49.70      A16S
ATOM  22445  N1  C   A1066     203.466 132.611  -6.398  1.00 72.11      A16S
ATOM  22446  C6  C   A1066     204.375 133.262  -5.617  1.00 72.11      A16S
ATOM  22447  C2  C   A1066     202.242 132.213  -5.863  1.00 72.11      A16S
ATOM  22448  O2  C   A1066     201.412 131.662  -6.604  1.00 72.11      A16S
ATOM  22449  N3  C   A1066     201.988 132.441  -4.559  1.00 72.11      A16S
ATOM  22450  C4  C   A1066     202.893 133.052  -3.802  1.00 72.11      A16S
ATOM  22451  N4  C   A1066     202.613 133.231  -2.516  1.00 72.11      A16S
ATOM  22452  C5  C   A1066     204.131 133.499  -4.328  1.00 72.11      A16S
ATOM  22453  C2* C   A1066     203.044 133.145  -8.863  1.00 49.70      A16S
ATOM  22454  O2* C   A1066     202.510 132.277  -9.827  1.00 49.70      A16S
ATOM  22455  C3* C   A1066     204.177 133.992  -9.431  1.00 49.70      A16S
ATOM  22456  O3* C   A1066     203.958 134.212 -10.818  1.00 49.70      A16S
ATOM  22457  P   A   A1067     203.311 135.591 -11.311  1.00 37.31      A16S
ATOM  22458  O1P A   A1067     203.119 135.599 -12.786  1.00 47.36      A16S
ATOM  22459  O2P A   A1067     204.130 136.651 -10.681  1.00 47.36      A16S
ATOM  22460  O5* A   A1067     201.862 135.571 -10.647  1.00 37.31      A16S
ATOM  22461  C5* A   A1067     200.907 134.529 -10.968  1.00 37.31      A16S
ATOM  22462  C4* A   A1067     199.480 135.037 -10.829  1.00 37.31      A16S
ATOM  22463  O4* A   A1067     199.142 135.179  -9.424  1.00 37.31      A16S
ATOM  22464  C1* A   A1067     199.036 136.543  -9.076  1.00 37.31      A16S
ATOM  22465  N9  A   A1067     200.017 136.756  -8.014  1.00 47.36      A16S
ATOM  22466  C4  A   A1067     199.868 136.495  -6.673  1.00 47.36      A16S
ATOM  22467  N3  A   A1067     198.773 136.048  -6.036  1.00 47.36      A16S
ATOM  22468  C2  A   A1067     199.017 135.884  -4.730  1.00 47.36      A16S
ATOM  22469  N1  A   A1067     200.141 136.101  -4.047  1.00 47.36      A16S
ATOM  22470  C6  A   A1067     201.219 136.552  -4.716  1.00 47.36      A16S
ATOM  22471  N6  A   A1067     202.342 136.768  -4.040  1.00 47.36      A16S
ATOM  22472  C5  A   A1067     201.094 136.767  -6.097  1.00 47.36      A16S
ATOM  22473  N7  A   A1067     201.989 137.217  -7.047  1.00 47.36      A16S
ATOM  22474  C8  A   A1067     201.298 137.205  -8.159  1.00 47.36      A16S
ATOM  22475  C2* A   A1067     199.315 137.382 -10.331  1.00 37.31      A16S
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ATOM  22476  O2* A   A1067     198.507 138.526 -10.446  1.00 37.31      A16S
ATOM  22477  C3* A   A1067     199.188 136.379 -11.484  1.00 37.31      A16S
ATOM  22478  O3* A   A1067     198.023 136.359 -12.355  1.00 37.31      A16S
ATOM  22479  P   G   A1068     196.524 136.182 -11.767  1.00 21.98      A16S
ATOM  22480  O1P G   A1068     195.571 136.299 -12.903  1.00 38.15      A16S
ATOM  22481  O2P G   A1068     196.359 137.065 -10.606  1.00 38.15      A16S
ATOM  22482  O5* G   A1068     196.473 134.685 -11.238  1.00 21.98      A16S
ATOM  22483  C5* G   A1068     195.349 134.218 -10.510  1.00 21.98      A16S
ATOM  22484  C4* G   A1068     195.807 133.645  -9.205  1.00 21.98      A16S
ATOM  22485  O4* G   A1068     196.610 134.634  -8.531  1.00 21.98      A16S
ATOM  22486  C1* G   A1068     196.300 134.656  -7.147  1.00 21.98      A16S
ATOM  22487  N9  G   A1068     195.705 135.954  -6.859  1.00 38.15      A16S
ATOM  22488  C4  G   A1068     195.236 136.414  -5.653  1.00 38.15      A16S
ATOM  22489  N3  G   A1068     195.237 135.742  -4.485  1.00 38.15      A16S
ATOM  22490  C2  G   A1068     194.686 136.451  -3.508  1.00 38.15      A16S
ATOM  22491  N2  G   A1068     194.584 135.934  -2.285  1.00 38.15      A16S
ATOM  22492  N1  G   A1068     194.189 137.719  -3.664  1.00 38.15      A16S
ATOM  22493  C6  G   A1068     194.183 138.429  -4.862  1.00 38.15      A16S
ATOM  22494  O6  G   A1068     193.706 139.568  -4.911  1.00 38.15      A16S
ATOM  22495  C5  G   A1068     194.759 137.683  -5.912  1.00 38.15      A16S
ATOM  22496  N7  G   A1068     194.935 138.015  -7.245  1.00 38.15      A16S
ATOM  22497  C8  G   A1068     195.498 136.964  -7.764  1.00 38.15      A16S
ATOM  22498  C2* G   A1068     195.366 133.486  -6.874  1.00 21.98      A16S
ATOM  22499  O2* G   A1068     196.175 132.390  -6.509  1.00 21.98      A16S
ATOM  22500  C3* G   A1068     194.691 133.310  -8.233  1.00 21.98      A16S
ATOM  22501  O3* G   A1068     194.207 131.983  -8.472  1.00 21.98      A16S
ATOM  22502  P   C   A1069     192.631 131.688  -8.401  1.00 57.08      A16S
ATOM  22503  O1P C   A1069     192.430 130.287  -8.820  1.00 42.24      A16S
ATOM  22504  O2P C   A1069     191.877 132.781  -9.109  1.00 42.24      A16S
ATOM  22505  O5* C   A1069     192.353 131.736  -6.836  1.00 57.08      A16S
ATOM  22506  C5* C   A1069     192.940 130.765  -5.951  1.00 57.08      A16S
ATOM  22507  C4* C   A1069     192.540 131.057  -4.520  1.00 57.08      A16S
ATOM  22508  O4* C   A1069     193.135 132.310  -4.105  1.00 57.08      A16S
ATOM  22509  C1* C   A1069     192.258 132.999  -3.229  1.00 57.08      A16S
ATOM  22510  N1  C   A1069     191.901 134.295  -3.825  1.00 42.24      A16S
ATOM  22511  C6  C   A1069     191.979 134.511  -5.171  1.00 42.24      A16S
ATOM  22512  C2  C   A1069     191.475 135.306  -2.979  1.00 42.24      A16S
ATOM  22513  O2  C   A1069     191.419 135.071  -1.755  1.00 42.24      A16S
ATOM  22514  N3  C   A1069     191.134 136.511  -3.504  1.00 42.24      A16S
ATOM  22515  C4  C   A1069     191.214 136.713  -4.819  1.00 42.24      A16S
ATOM  22516  N4  C   A1069     190.868 137.912  -5.296  1.00 42.24      A16S
ATOM  22517  C5  C   A1069     191.650 135.694  -5.704  1.00 42.24      A16S
ATOM  22518  C2* C   A1069     191.031 132.130  -3.016  1.00 57.08      A16S
ATOM  22519  O2* C   A1069     191.169 131.418  -1.801  1.00 57.08      A16S
ATOM  22520  C3* C   A1069     191.055 131.266  -4.272  1.00 57.08      A16S
ATOM  22521  O3* C   A1069     190.330 130.061  -4.115  1.00 57.08      A16S
ATOM  22522  P   U   A1070     188.736 130.104  -4.189  1.00 61.79      A16S
ATOM  22523  O1P U   A1070     188.276 128.915  -3.437  1.00 30.37      A16S
ATOM  22524  O2P U   A1070     188.270 130.340  -5.574  1.00 30.37      A16S
ATOM  22525  O5* U   A1070     188.393 131.412  -3.362  1.00 61.79      A16S
ATOM  22526  C5* U   A1070     187.052 131.858  -3.206  1.00 61.79      A16S
ATOM  22527  C4* U   A1070     186.914 132.614  -1.911  1.00 61.79      A16S
ATOM  22528  O4* U   A1070     187.939 133.633  -1.830  1.00 61.79      A16S
ATOM  22529  C1* U   A1070     187.388 134.827  -1.321  1.00 61.79      A16S
ATOM  22530  N1  U   A1070     187.363 135.796  -2.425  1.00 30.37      A16S
ATOM  22531  C6  U   A1070     187.721 135.427  -3.691  1.00 30.37      A16S
ATOM  22532  C2  U   A1070     186.964 137.092  -2.153  1.00 30.37      A16S
ATOM  22533  O2  U   A1070     186.609 137.465  -1.041  1.00 30.37      A16S
ATOM  22534  N3  U   A1070     186.978 137.939  -3.233  1.00 30.37      A16S
ATOM  22535  C4  U   A1070     187.330 137.628  -4.522  1.00 30.37      A16S
ATOM  22536  O4  U   A1070     187.320 138.506  -5.382  1.00 30.37      A16S
ATOM  22537  C5  U   A1070     187.714 136.271  -4.719  1.00 30.37      A16S
ATOM  22538  C2* U   A1070     185.985 134.490  -0.824  1.00 61.79      A16S
ATOM  22539  O2* U   A1070     186.086 134.069   0.522  1.00 61.79      A16S
ATOM  22540  C3* U   A1070     185.604 133.357  -1.766  1.00 61.79      A16S
ATOM  22541  O3* U   A1070     184.611 132.486  -1.259  1.00 61.79      A16S
ATOM  22542  P   C   A1071     183.066 132.809  -1.520  1.00 66.56      A16S
ATOM  22543  O1P C   A1071     182.326 131.640  -0.960  1.00 39.11      A16S
ATOM  22544  O2P C   A1071     182.860 133.208  -2.938  1.00 39.11      A16S
ATOM  22545  O5* C   A1071     182.819 134.081  -0.596  1.00 66.56      A16S
ATOM  22546  C5* C   A1071     183.165 134.041   0.805  1.00 66.56      A16S
ATOM  22547  C4* C   A1071     183.005 135.407   1.434  1.00 66.56      A16S
ATOM  22548  O4* C   A1071     183.988 136.316   0.885  1.00 66.56      A16S
ATOM  22549  C1* C   A1071     183.431 137.608   0.783  1.00 66.56      A16S
ATOM  22550  N1  C   A1071     183.439 137.999  -0.628  1.00 39.11      A16S
ATOM  22551  C6  C   A1071     183.719 137.095  -1.608  1.00 39.11      A16S
ATOM  22552  C2  C   A1071     183.157 139.320  -0.956  1.00 39.11      A16S
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ATOM  22553  O2  C   A1071     182.886 140.114  -0.042  1.00 39.11      A16S
ATOM  22554  N3  C   A1071     183.179 139.703  -2.254  1.00 39.11      A16S
ATOM  22555  C4  C   A1071     183.467 138.813  -3.201  1.00 39.11      A16S
ATOM  22556  N4  C   A1071     183.495 139.228  -4.461  1.00 39.11      A16S
ATOM  22557  C5  C   A1071     183.744 137.457  -2.895  1.00 39.11      A16S
ATOM  22558  C2* C   A1071     182.015 137.566   1.358  1.00 66.56      A16S
ATOM  22559  O2* C   A1071     182.039 138.003   2.701  1.00 66.56      A16S
ATOM  22560  C3* C   A1071     181.665 136.091   1.209  1.00 66.56      A16S
ATOM  22561  O3* C   A1071     180.689 135.660   2.159  1.00 66.56      A16S
ATOM  22562  P   G   A1072     179.121 135.827   1.828  1.00 63.81      A16S
ATOM  22563  O1P G   A1072     178.420 135.228   3.001  1.00 52.04      A16S
ATOM  22564  O2P G   A1072     178.807 135.350   0.454  1.00 52.04      A16S
ATOM  22565  O5* G   A1072     178.901 137.401   1.812  1.00 63.81      A16S
ATOM  22566  C5* G   A1072     178.884 138.152   3.027  1.00 63.81      A16S
ATOM  22567  C4* G   A1072     178.387 139.531   2.747  1.00 63.81      A16S
ATOM  22568  O4* G   A1072     179.368 140.231   1.953  1.00 63.81      A16S
ATOM  22569  C1* G   A1072     178.711 141.094   1.040  1.00 63.81      A16S
ATOM  22570  N9  G   A1072     179.190 140.823  -0.312  1.00 52.04      A16S
ATOM  22571  C4  G   A1072     179.230 141.725  -1.337  1.00 52.04      A16S
ATOM  22572  N3  G   A1072     178.869 143.018  -1.260  1.00 52.04      A16S
ATOM  22573  C2  G   A1072     179.024 143.642  -2.412  1.00 52.04      A16S
ATOM  22574  N2  G   A1072     178.764 144.948  -2.498  1.00 52.04      A16S
ATOM  22575  N1  G   A1072     179.462 143.033  -3.558  1.00 52.04      A16S
ATOM  22576  C6  G   A1072     179.829 141.697  -3.662  1.00 52.04      A16S
ATOM  22577  O6  G   A1072     180.198 141.244  -4.746  1.00 52.04      A16S
ATOM  22578  C5  G   A1072     179.704 141.026  -2.423  1.00 52.04      A16S
ATOM  22579  N7  G   A1072     179.981 139.712  -2.082  1.00 52.04      A16S
ATOM  22580  C8  G   A1072     179.663 139.636  -0.820  1.00 52.04      A16S
ATOM  22581  C2* G   A1072     177.202 140.892   1.190  1.00 63.81      A16S
ATOM  22582  O2* G   A1072     176.638 141.951   1.929  1.00 63.81      A16S
ATOM  22583  C3* G   A1072     177.137 139.545   1.895  1.00 63.81      A16S
ATOM  22584  O3* G   A1072     175.977 139.385   2.684  1.00 63.81      A16S
ATOM  22585  P   U   A1073     174.725 138.586   2.084  1.00 31.25      A16S
ATOM  22586  O1P U   A1073     173.774 138.357   3.207  1.00 80.68      A16S
ATOM  22587  O2P U   A1073     175.258 137.422   1.324  1.00 80.68      A16S
ATOM  22588  O5* U   A1073     174.099 139.613   1.033  1.00 31.25      A16S
ATOM  22589  C5* U   A1073     173.427 140.788   1.482  1.00 31.25      A16S
ATOM  22590  C4* U   A1073     173.349 141.805   0.381  1.00 31.25      A16S
ATOM  22591  O4* U   A1073     174.691 142.152  -0.045  1.00 31.25      A16S
ATOM  22592  C1* U   A1073     174.684 142.489  -1.432  1.00 31.25      A16S
ATOM  22593  N1  U   A1073     175.537 141.543  -2.172  1.00 80.68      A16S
ATOM  22594  C6  U   A1073     175.779 140.278  -1.695  1.00 80.68      A16S
ATOM  22595  C2  U   A1073     176.049 141.951  -3.396  1.00 80.68      A16S
ATOM  22596  O2  U   A1073     175.907 143.079  -3.834  1.00 80.68      A16S
ATOM  22597  N3  U   A1073     176.731 140.983  -4.088  1.00 80.68      A16S
ATOM  22598  C4  U   A1073     176.960 139.678  -3.689  1.00 80.68      A16S
ATOM  22599  O4  U   A1073     177.449 138.868  -4.490  1.00 80.68      A16S
ATOM  22600  C5  U   A1073     176.450 139.360  -2.390  1.00 80.68      A16S
ATOM  22601  C2* U   A1073     173.244 142.355  -1.926  1.00 31.25      A16S
ATOM  22602  O2* U   A1073     172.656 143.635  -1.972  1.00 31.25      A16S
ATOM  22603  C3* U   A1073     172.660 141.381  -0.903  1.00 31.25      A16S
ATOM  22604  O3* U   A1073     171.244 141.411  -0.827  1.00 31.25      A16S
ATOM  22605  P   G   A1074     170.384 140.323  -1.650  1.00 41.28      A16S
ATOM  22606  O1P G   A1074     168.949 140.418  -1.255  1.00 31.08      A16S
ATOM  22607  O2P G   A1074     171.091 139.025  -1.491  1.00 31.08      A16S
ATOM  22608  O5* G   A1074     170.468 140.858  -3.149  1.00 41.28      A16S
ATOM  22609  C5* G   A1074     170.017 142.183  -3.450  1.00 41.28      A16S
ATOM  22610  C4* G   A1074     170.450 142.606  -4.830  1.00 41.28      A16S
ATOM  22611  O4* G   A1074     171.891 142.726  -4.905  1.00 41.28      A16S
ATOM  22612  C1* G   A1074     172.333 142.372  -6.211  1.00 41.28      A16S
ATOM  22613  N9  G   A1074     173.227 141.219  -6.098  1.00 31.08      A16S
ATOM  22614  C4  G   A1074     174.027 140.697  -7.083  1.00 31.08      A16S
ATOM  22615  N3  G   A1074     174.115 141.143  -8.348  1.00 31.08      A16S
ATOM  22616  C2  G   A1074     174.987 140.455  -9.048  1.00 31.08      A16S
ATOM  22617  N2  G   A1074     175.198 140.764 -10.332  1.00 31.08      A16S
ATOM  22618  N1  G   A1074     175.718 139.408  -8.546  1.00 31.08      A16S
ATOM  22619  C6  G   A1074     175.640 138.926  -7.241  1.00 31.08      A16S
ATOM  22620  O6  G   A1074     176.347 137.961  -6.876  1.00 31.08      A16S
ATOM  22621  C5  G   A1074     174.709 139.656  -6.485  1.00 31.08      A16S
ATOM  22622  N7  G   A1074     174.327 139.508  -5.161  1.00 31.08      A16S
ATOM  22623  C8  G   A1074     173.449 140.450  -4.975  1.00 31.08      A16S
ATOM  22624  C2* G   A1074     171.089 142.074  -7.044  1.00 41.28      A16S
ATOM  22625  O2* G   A1074     170.670 143.252  -7.713  1.00 41.28      A16S
ATOM  22626  C3* G   A1074     170.097 141.672  -5.967  1.00 41.28      A16S
ATOM  22627  O3* G   A1074     168.776 141.855  -6.402  1.00 41.28      A16S
ATOM  22628  P   C   A1075     167.957 140.591  -6.914  1.00 39.11      A16S
ATOM  22629  O1P C   A1075     166.542 140.991  -7.158  1.00 45.18      A16S
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ATOM  22630  O2P C   A1075     168.268 139.504  -5.945  1.00 45.18      A16S
ATOM  22631  O5* C   A1075     168.638 140.250  -8.307  1.00 39.11      A16S
ATOM  22632  C5* C   A1075     168.511 141.149  -9.414  1.00 39.11      A16S
ATOM  22633  C4* C   A1075     169.374 140.687 -10.559  1.00 39.11      A16S
ATOM  22634  O4* C   A1075     170.774 140.766 -10.193  1.00 39.11      A16S
ATOM  22635  C1* C   A1075     171.478 139.670 -10.740  1.00 39.11      A16S
ATOM  22636  N1  C   A1075     171.966 138.849  -9.622  1.00 45.18      A16S
ATOM  22637  C6  C   A1075     171.353 138.905  -8.406  1.00 45.18      A16S
ATOM  22638  C2  C   A1075     173.066 138.008  -9.816  1.00 45.18      A16S
ATOM  22639  O2  C   A1075     173.606 137.967 -10.931  1.00 45.18      A16S
ATOM  22640  N3  C   A1075     173.513 137.259  -8.787  1.00 45.18      A16S
ATOM  22641  C4  C   A1075     172.904 137.324  -7.607  1.00 45.18      A16S
ATOM  22642  N4  C   A1075     173.374 136.569  -6.618  1.00 45.18      A16S
ATOM  22643  C5  C   A1075     171.785 138.168  -7.384  1.00 45.18      A16S
ATOM  22644  C2* C   A1075     170.505 138.918 -11.638  1.00 39.11      A16S
ATOM  22645  O2* C   A1075     170.593 139.482 -12.931  1.00 39.11      A16S
ATOM  22646  C3* C   A1075     169.176 139.246 -10.975  1.00 39.11      A16S
ATOM  22647  O3* C   A1075     168.073 139.127 -11.850  1.00 39.11      A16S
ATOM  22648  P   C   A1076     167.272 137.744 -11.913  1.00 57.12      A16S
ATOM  22649  O1P C   A1076     166.156 137.969 -12.855  1.00 27.93      A16S
ATOM  22650  O2P C   A1076     166.995 137.247 -10.548  1.00 27.93      A16S
ATOM  22651  O5* C   A1076     168.311 136.749 -12.590  1.00 57.12      A16S
ATOM  22652  C5* C   A1076     168.680 136.923 -13.969  1.00 57.12      A16S
ATOM  22653  C4* C   A1076     169.539 135.775 -14.437  1.00 57.12      A16S
ATOM  22654  O4* C   A1076     170.846 135.844 -13.828  1.00 57.12      A16S
ATOM  22655  C1* C   A1076     171.340 134.542 -13.633  1.00 57.12      A16S
ATOM  22656  N1  C   A1076     171.560 134.361 -12.203  1.00 27.93      A16S
ATOM  22657  C6  C   A1076     171.096 135.272 -11.309  1.00 27.93      A16S
ATOM  22658  C2  C   A1076     172.249 133.236 -11.765  1.00 27.93      A16S
ATOM  22659  O2  C   A1076     172.672 132.431 -12.602  1.00 27.93      A16S
ATOM  22660  N3  C   A1076     172.441 133.046 -10.445  1.00 27.93      A16S
ATOM  22661  C4  C   A1076     171.981 133.936  -9.580  1.00 27.93      A16S
ATOM  22662  N4  C   A1076     172.185 133.712  -8.291  1.00 27.93      A16S
ATOM  22663  C5  C   A1076     171.285 135.101 -10.000  1.00 27.93      A16S
ATOM  22664  C2* C   A1076     170.309 133.560 -14.187  1.00 57.12      A16S
ATOM  22665  O2* C   A1076     170.643 133.249 -15.525  1.00 57.12      A16S
ATOM  22666  C3* C   A1076     169.039 134.383 -14.116  1.00 57.12      A16S
ATOM  22667  O3* C   A1076     168.113 133.968 -15.094  1.00 57.12      A16S
ATOM  22668  P   G   A1077     166.822 133.126 -14.655  1.00 30.33      A16S
ATOM  22669  O1P G   A1077     166.036 132.969 -15.910  1.00 43.01      A16S
ATOM  22670  O2P G   A1077     166.192 133.727 -13.460  1.00 43.01      A16S
ATOM  22671  O5* G   A1077     167.420 131.721 -14.211  1.00 30.33      A16S
ATOM  22672  C5* G   A1077     168.163 130.939 -15.143  1.00 30.33      A16S
ATOM  22673  C4* G   A1077     168.840 129.793 -14.453  1.00 30.33      A16S
ATOM  22674  O4* G   A1077     169.911 130.266 -13.612  1.00 30.33      A16S
ATOM  22675  C1* G   A1077     170.208 129.277 -12.652  1.00 30.33      A16S
ATOM  22676  N9  G   A1077     170.331 129.905 -11.344  1.00 43.01      A16S
ATOM  22677  C4  G   A1077     170.916 129.358 -10.231  1.00 43.01      A16S
ATOM  22678  N3  G   A1077     171.549 128.169 -10.168  1.00 43.01      A16S
ATOM  22679  C2  G   A1077     171.986 127.910  -8.946  1.00 43.01      A16S
ATOM  22680  N2  G   A1077     172.677 126.795  -8.697  1.00 43.01      A16S
ATOM  22681  N1  G   A1077     171.784 128.731  -7.876  1.00 43.01      A16S
ATOM  22682  C6  G   A1077     171.120 129.949  -7.918  1.00 43.01      A16S
ATOM  22683  O6  G   A1077     170.959 130.593  -6.882  1.00 43.01      A16S
ATOM  22684  C5  G   A1077     170.691 130.261  -9.221  1.00 43.01      A16S
ATOM  22685  N7  G   A1077     170.036 131.379  -9.700  1.00 43.01      A16S
ATOM  22686  C8  G   A1077     169.848 131.126 -10.965  1.00 43.01      A16S
ATOM  22687  C2* G   A1077     169.083 128.241 -12.705  1.00 30.33      A16S
ATOM  22688  O2* G   A1077     169.534 127.094 -13.398  1.00 30.33      A16S
ATOM  22689  C3* G   A1077     168.011 128.975 -13.495  1.00 30.33      A16S
ATOM  22690  O3* G   A1077     167.137 128.079 -14.159  1.00 30.33      A16S
ATOM  22691  P   U   A1078     165.649 127.890 -13.594  1.00 23.82      A16S
ATOM  22692  O1P U   A1078     164.862 126.915 -14.398  1.00 31.96      A16S
ATOM  22693  O2P U   A1078     165.156 129.283 -13.447  1.00 31.96      A16S
ATOM  22694  O5* U   A1078     165.909 127.227 -12.171  1.00 23.82      A16S
ATOM  22695  C5* U   A1078     164.990 127.409 -11.115  1.00 23.82      A16S
ATOM  22696  C4* U   A1078     164.894 126.166 -10.293  1.00 23.82      A16S
ATOM  22697  O4* U   A1078     164.640 125.047 -11.165  1.00 23.82      A16S
ATOM  22698  C1* U   A1078     165.167 123.870 -10.576  1.00 23.82      A16S
ATOM  22699  N1  U   A1078     166.019 123.168 -11.548  1.00 31.96      A16S
ATOM  22700  C6  U   A1078     166.446 123.768 -12.704  1.00 31.96      A16S
ATOM  22701  C2  U   A1078     166.386 121.880 -11.251  1.00 31.96      A16S
ATOM  22702  O2  U   A1078     166.007 121.305 -10.257  1.00 31.96      A16S
ATOM  22703  N3  U   A1078     167.212 121.284 -12.166  1.00 31.96      A16S
ATOM  22704  C4  U   A1078     167.686 121.832 -13.335  1.00 31.96      A16S
ATOM  22705  O4  U   A1078     168.431 121.175 -14.054  1.00 31.96      A16S
ATOM  22706  C5  U   A1078     167.246 123.158 -13.584  1.00 31.96      A16S
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ATOM  22707  C2* U   A1078     165.904 124.277  -9.298  1.00 23.82      A16S
ATOM  22708  O2* U   A1078     165.049 124.050  -8.192  1.00 23.82      A16S
ATOM  22709  C3* U   A1078     166.135 125.760  -9.528  1.00 23.82      A16S
ATOM  22710  O3* U   A1078     166.183 126.445  -8.300  1.00 23.82      A16S
ATOM  22711  P    G   A1079     167.438 127.379  -7.977  1.00 37.27      A16S
ATOM  22712  O1P G   A1079     167.168 128.138  -6.724  1.00 31.73      A16S
ATOM  22713  O2P G   A1079     167.759 128.122  -9.225  1.00 31.73      A16S
ATOM  22714  O5* G   A1079     168.580 126.328  -7.653  1.00 37.27      A16S
ATOM  22715  C5* G   A1079     168.363 125.339  -6.655  1.00 37.27      A16S
ATOM  22716  C4* G   A1079     169.205 124.130  -6.931  1.00 37.27      A16S
ATOM  22717  O4* G   A1079     168.883 123.584  -8.234  1.00 37.27      A16S
ATOM  22718  C1* G   A1079     170.038 122.985  -8.798  1.00 37.27      A16S
ATOM  22719  N9   G   A1079     170.222 123.503 -10.153  1.00 31.73      A16S
ATOM  22720  C4   G   A1079     170.725 122.810 -11.221  1.00 31.73      A16S
ATOM  22721  N3   G   A1079     171.204 121.558 -11.188  1.00 31.73      A16S
ATOM  22722  C2   G   A1079     171.578 121.141 -12.384  1.00 31.73      A16S
ATOM  22723  N2   G   A1079     172.087 119.912 -12.530  1.00 31.73      A16S
ATOM  22724  N1   G   A1079     171.480 121.895 -13.526  1.00 31.73      A16S
ATOM  22725  C6   G   A1079     170.986 123.189 -13.584  1.00 31.73      A16S
ATOM  22726  O6   G   A1079     170.924 123.772 -14.670  1.00 31.73      A16S
ATOM  22727  C5   G   A1079     170.599 123.655 -12.300  1.00 31.73      A16S
ATOM  22728  N7   G   A1079     170.082 124.877 -11.909  1.00 31.73      A16S
ATOM  22729  C8   G   A1079     169.882 124.746 -10.627  1.00 31.73      A16S
ATOM  22730  C2* G   A1079     171.187 123.195  -7.817  1.00 37.27      A16S
ATOM  22731  O2* G   A1079     171.254 122.053  -6.995  1.00 37.27      A16S
ATOM  22732  C3* G   A1079     170.687 124.383  -7.012  1.00 37.27      A16S
ATOM  22733  O3* G   A1079     171.228 124.423  -5.728  1.00 37.27      A16S
ATOM  22734  P    A   A1080     172.451 125.401  -5.442  1.00 39.06      A16S
ATOM  22735  O1P A   A1080     172.567 125.586  -3.975  1.00 18.77      A16S
ATOM  22736  O2P A   A1080     172.319 126.580  -6.323  1.00 18.77      A16S
ATOM  22737  O5* A   A1080     173.707 124.535  -5.880  1.00 39.06      A16S
ATOM  22738  C5* A   A1080     174.083 123.392  -5.096  1.00 39.06      A16S
ATOM  22739  C4* A   A1080     175.150 122.608  -5.794  1.00 39.06      A16S
ATOM  22740  O4* A   A1080     174.645 122.131  -7.056  1.00 39.06      A16S
ATOM  22741  C1* A   A1080     175.683 122.103  -7.999  1.00 39.06      A16S
ATOM  22742  N9   A   A1080     175.269 122.885  -9.161  1.00 18.77      A16S
ATOM  22743  C4   A   A1080     175.145 122.389 -10.435  1.00 18.77      A16S
ATOM  22744  N3   A   A1080     175.419 121.143 -10.851  1.00 18.77      A16S
ATOM  22745  C2   A   A1080     175.167 121.022 -12.147  1.00 18.77      A16S
ATOM  22746  N1   A   A1080     174.700 121.930 -13.007  1.00 18.77      A16S
ATOM  22747  C6   A   A1080     174.436 123.172 -12.553  1.00 18.77      A16S
ATOM  22748  N6   A   A1080     173.960 124.075 -13.404  1.00 18.77      A16S
ATOM  22749  C5   A   A1080     174.676 123.436 -11.204  1.00 18.77      A16S
ATOM  22750  N7   A   A1080     174.544 124.587 -10.442  1.00 18.77      A16S
ATOM  22751  C8   A   A1080     174.909 124.210  -9.238  1.00 18.77      A16S
ATOM  22752  C2* A   A1080     176.954 122.582  -7.306  1.00 39.06      A16S
ATOM  22753  O2* A   A1080     177.615 121.417  -6.862  1.00 39.06      A16S
ATOM  22754  C3* A   A1080     176.394 123.386  -6.145  1.00 39.06      A16S
ATOM  22755  O3* A   A1080     177.261 123.371  -5.022  1.00 39.06      A16S
ATOM  22756  P    G   A1081     178.241 124.612  -4.756  1.00 20.37      A16S
ATOM  22757  O1P G   A1081     179.165 124.178  -3.673  1.00 53.73      A16S
ATOM  22758  O2P G   A1081     177.416 125.830  -4.571  1.00 53.73      A16S
ATOM  22759  O5* G   A1081     179.021 124.748  -6.134  1.00 20.37      A16S
ATOM  22760  C5* G   A1081     179.265 126.018  -6.715  1.00 20.37      A16S
ATOM  22761  C4* G   A1081     178.846 126.010  -8.154  1.00 20.37      A16S
ATOM  22762  O4* G   A1081     177.404 125.858  -8.222  1.00 20.37      A16S
ATOM  22763  C1* G   A1081     176.870 126.751  -9.197  1.00 20.37      A16S
ATOM  22764  N9   G   A1081     176.108 127.788  -8.499  1.00 53.73      A16S
ATOM  22765  C4   G   A1081     175.474 128.871  -9.070  1.00 53.73      A16S
ATOM  22766  N3   G   A1081     175.395 129.141 -10.382  1.00 53.73      A16S
ATOM  22767  C2   G   A1081     174.746 130.263 -10.613  1.00 53.73      A16S
ATOM  22768  N2   G   A1081     174.563 130.680 -11.864  1.00 53.73      A16S
ATOM  22769  N1   G   A1081     174.227 131.060  -9.641  1.00 53.73      A16S
ATOM  22770  C6   G   A1081     174.299 130.806  -8.284  1.00 53.73      A16S
ATOM  22771  O6   G   A1081     173.802 131.602  -7.484  1.00 53.73      A16S
ATOM  22772  C5   G   A1081     174.979 129.599  -8.017  1.00 53.73      A16S
ATOM  22773  N7   G   A1081     175.259 128.976  -6.810  1.00 53.73      A16S
ATOM  22774  C8   G   A1081     175.922 127.905  -7.144  1.00 53.73      A16S
ATOM  22775  C2* G   A1081     178.052 127.403  -9.919  1.00 20.37      A16S
ATOM  22776  O2* G   A1081     178.340 126.747 -11.139  1.00 20.37      A16S
ATOM  22777  C3* G   A1081     179.131 127.331  -8.844  1.00 20.37      A16S
ATOM  22778  O3* G   A1081     180.469 127.426  -9.321  1.00 20.37      A16S
ATOM  22779  P    G   A1082     181.284 128.804  -9.135  1.00 26.54      A16S
ATOM  22780  O1P G   A1082     182.695 128.487  -9.432  1.00 44.80      A16S
ATOM  22781  O2P G   A1082     180.943 129.398  -7.826  1.00 44.80      A16S
ATOM  22782  O5* G   A1082     180.715 129.745 -10.289  1.00 26.54      A16S
ATOM  22783  C5* G   A1082     180.630 129.258 -11.620  1.00 26.54      A16S
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ATOM  22784  C4* G   A1082     179.705 130.106 -12.449  1.00 26.54      A16S
ATOM  22785  O4* G   A1082     178.370 130.076 -11.890  1.00 26.54      A16S
ATOM  22786  C1* G   A1082     177.692 131.284 -12.218  1.00 26.54      A16S
ATOM  22787  N9  G   A1082     177.243 131.941 -10.996  1.00 44.80      A16S
ATOM  22788  C4  G   A1082     176.473 133.069 -10.937  1.00 44.80      A16S
ATOM  22789  N3  G   A1082     175.972 133.736 -11.991  1.00 44.80      A16S
ATOM  22790  C2  G   A1082     175.258 134.781 -11.614  1.00 44.80      A16S
ATOM  22791  N2  G   A1082     174.637 135.532 -12.525  1.00 44.80      A16S
ATOM  22792  N1  G   A1082     175.085 135.164 -10.313  1.00 44.80      A16S
ATOM  22793  C6  G   A1082     175.603 134.499  -9.211  1.00 44.80      A16S
ATOM  22794  O6  G   A1082     175.399 134.939  -8.071  1.00 44.80      A16S
ATOM  22795  C5  G   A1082     176.339 133.352  -9.596  1.00 44.80      A16S
ATOM  22796  N7  G   A1082     176.992 132.401  -8.823  1.00 44.80      A16S
ATOM  22797  C8  G   A1082     177.513 131.584  -9.694  1.00 44.80      A16S
ATOM  22798  C2* G   A1082     178.665 132.169 -12.992  1.00 26.54      A16S
ATOM  22799  O2* G   A1082     178.398 132.022 -14.369  1.00 26.54      A16S
ATOM  22800  C3* G   A1082     180.014 131.588 -12.576  1.00 26.54      A16S
ATOM  22801  O3* G   A1082     181.031 131.864 -13.531  1.00 26.54      A16S
ATOM  22802  P   U   A1083     182.096 133.024 -13.227  1.00 60.29      A16S
ATOM  22803  O1P U   A1083     183.087 133.082 -14.340  1.00 37.49      A16S
ATOM  22804  O2P U   A1083     182.577 132.826 -11.825  1.00 37.49      A16S
ATOM  22805  O5* U   A1083     181.207 134.341 -13.307  1.00 60.29      A16S
ATOM  22806  C5* U   A1083     180.497 134.665 -14.507  1.00 60.29      A16S
ATOM  22807  C4* U   A1083     179.648 135.896 -14.299  1.00 60.29      A16S
ATOM  22808  O4* U   A1083     178.612 135.616 -13.330  1.00 60.29      A16S
ATOM  22809  C1* U   A1083     178.334 136.784 -12.573  1.00 60.29      A16S
ATOM  22810  N1  U   A1083     178.464 136.459 -11.144  1.00 37.49      A16S
ATOM  22811  C6  U   A1083     179.293 135.452 -10.713  1.00 37.49      A16S
ATOM  22812  C2  U   A1083     177.712 137.183 -10.251  1.00 37.49      A16S
ATOM  22813  O2  U   A1083     176.986 138.100 -10.587  1.00 37.49      A16S
ATOM  22814  N3  U   A1083     177.845 136.796  -8.945  1.00 37.49      A16S
ATOM  22815  C4  U   A1083     178.645 135.783  -8.451  1.00 37.49      A16S
ATOM  22816  O4  U   A1083     178.609 135.505  -7.246  1.00 37.49      A16S
ATOM  22817  C5  U   A1083     179.405 135.101  -9.436  1.00 37.49      A16S
ATOM  22818  C2* U   A1083     179.237 137.908 -13.083  1.00 60.29      A16S
ATOM  22819  O2* U   A1083     178.480 138.702 -13.975  1.00 60.29      A16S
ATOM  22820  C3* U   A1083     180.363 137.124 -13.760  1.00 60.29      A16S
ATOM  22821  O3* U   A1083     180.975 137.842 -14.827  1.00 60.29      A16S
ATOM  22822  P   G   A1084     182.546 138.182 -14.766  1.00 52.61      A16S
ATOM  22823  O1P G   A1084     182.791 139.029 -15.964  1.00 45.11      A16S
ATOM  22824  O2P G   A1084     183.346 136.943 -14.553  1.00 45.11      A16S
ATOM  22825  O5* G   A1084     182.703 139.060 -13.452  1.00 52.61      A16S
ATOM  22826  C5* G   A1084     182.068 140.335 -13.351  1.00 52.61      A16S
ATOM  22827  C4* G   A1084     182.121 140.814 -11.933  1.00 52.61      A16S
ATOM  22828  O4* G   A1084     181.357 139.921 -11.099  1.00 52.61      A16S
ATOM  22829  C1* G   A1084     181.921 139.886  -9.807  1.00 52.61      A16S
ATOM  22830  N9  G   A1084     182.104 138.494  -9.429  1.00 45.11      A16S
ATOM  22831  C4  G   A1084     181.855 137.943  -8.195  1.00 45.11      A16S
ATOM  22832  N3  G   A1084     181.427 138.604  -7.102  1.00 45.11      A16S
ATOM  22833  C2  G   A1084     181.293 137.799  -6.060  1.00 45.11      A16S
ATOM  22834  N2  G   A1084     180.895 138.284  -4.880  1.00 45.11      A16S
ATOM  22835  N1  G   A1084     181.539 136.459  -6.089  1.00 45.11      A16S
ATOM  22836  C6  G   A1084     181.965 135.753  -7.201  1.00 45.11      A16S
ATOM  22837  O6  G   A1084     182.140 134.528  -7.118  1.00 45.11      A16S
ATOM  22838  C5  G   A1084     182.137 136.607  -8.329  1.00 45.11      A16S
ATOM  22839  N7  G   A1084     182.571 136.324  -9.616  1.00 45.11      A16S
ATOM  22840  C8  G   A1084     182.537 137.473 -10.231  1.00 45.11      A16S
ATOM  22841  C2* G   A1084     183.197 140.726  -9.817  1.00 52.61      A16S
ATOM  22842  O2* G   A1084     182.925 141.990  -9.251  1.00 52.61      A16S
ATOM  22843  C3* G   A1084     183.500 140.822 -11.306  1.00 52.61      A16S
ATOM  22844  O3* G   A1084     184.154 142.031 -11.636  1.00 52.61      A16S
ATOM  22845  P   U   A1085     185.683 142.253 -11.213  1.00 61.92      A16S
ATOM  22846  O1P U   A1085     186.163 143.405 -12.038  1.00 69.09      A16S
ATOM  22847  O2P U   A1085     185.775 142.310  -9.723  1.00 69.09      A16S
ATOM  22848  O5* U   A1085     186.421 140.938 -11.710  1.00 61.92      A16S
ATOM  22849  C5* U   A1085     187.839 140.938 -11.872  1.00 61.92      A16S
ATOM  22850  C4* U   A1085     188.356 139.533 -11.911  1.00 61.92      A16S
ATOM  22851  O4* U   A1085     188.149 138.910 -10.619  1.00 61.92      A16S
ATOM  22852  C1* U   A1085     187.421 137.719 -10.784  1.00 61.92      A16S
ATOM  22853  N1  U   A1085     186.597 137.494  -9.589  1.00 69.09      A16S
ATOM  22854  C6  U   A1085     185.851 138.497  -9.020  1.00 69.09      A16S
ATOM  22855  C2  U   A1085     186.614 136.221  -9.038  1.00 69.09      A16S
ATOM  22856  O2  U   A1085     187.250 135.293  -9.519  1.00 69.09      A16S
ATOM  22857  N3  U   A1085     185.863 136.069  -7.902  1.00 69.09      A16S
ATOM  22858  C4  U   A1085     185.113 137.030  -7.275  1.00 69.09      A16S
ATOM  22859  O4  U   A1085     184.508 136.739  -6.242  1.00 69.09      A16S
ATOM  22860  C5  U   A1085     185.131 138.315  -7.912  1.00 69.09      A16S
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ATOM  22861  C2* U   A1085     186.676 137.858 -12.108  1.00 61.92      A16S
ATOM  22862  O2* U   A1085     186.326 136.584 -12.609  1.00 61.92      A16S
ATOM  22863  C3* U   A1085     187.696 138.635 -12.946  1.00 61.92      A16S
ATOM  22864  O3* U   A1085     188.717 137.778 -13.474  1.00 61.92      A16S
ATOM  22865  P    U   A1086     189.422 138.132 -14.881  1.00 64.87      A16S
ATOM  22866  O1P U   A1086     190.669 137.335 -14.954  1.00 96.84      A16S
ATOM  22867  O2P U   A1086     189.482 139.608 -15.066  1.00 96.84      A16S
ATOM  22868  O5* U   A1086     188.398 137.557 -15.951  1.00 64.87      A16S
ATOM  22869  C5* U   A1086     188.298 136.145 -16.227  1.00 64.87      A16S
ATOM  22870  C4* U   A1086     187.424 135.942 -17.437  1.00 64.87      A16S
ATOM  22871  O4* U   A1086     186.077 136.345 -17.089  1.00 64.87      A16S
ATOM  22872  C1* U   A1086     185.540 137.177 -18.110  1.00 64.87      A16S
ATOM  22873  N1   U   A1086     185.401 138.536 -17.554  1.00 96.84      A16S
ATOM  22874  C6   U   A1086     185.911 138.843 -16.306  1.00 96.84      A16S
ATOM  22875  C2   U   A1086     184.748 139.503 -18.312  1.00 96.84      A16S
ATOM  22876  O2   U   A1086     184.282 139.286 -19.426  1.00 96.84      A16S
ATOM  22877  N3   U   A1086     184.664 140.740 -17.712  1.00 96.84      A16S
ATOM  22878  C4   U   A1086     185.154 141.105 -16.464  1.00 96.84      A16S
ATOM  22879  O4   U   A1086     184.982 142.257 -16.049  1.00 96.84      A16S
ATOM  22880  C5   U   A1086     185.813 140.054 -15.756  1.00 96.84      A16S
ATOM  22881  C2* U   A1086     186.505 137.124 -19.296  1.00 64.87      A16S
ATOM  22882  O2* U   A1086     186.162 136.093 -20.198  1.00 64.87      A16S
ATOM  22883  C3* U   A1086     187.820 136.848 -18.596  1.00 64.87      A16S
ATOM  22884  O3* U   A1086     188.774 136.257 -19.460  1.00 64.87      A16S
ATOM  22885  P    G   A1087     189.745 137.197 -20.324  1.00 69.04      A16S
ATOM  22886  O1P G   A1087     190.498 136.276 -21.206  1.00 49.90      A16S
ATOM  22887  O2P G   A1087     190.485 138.141 -19.440  1.00 49.90      A16S
ATOM  22888  O5* G   A1087     188.751 138.054 -21.216  1.00 69.04      A16S
ATOM  22889  C5* G   A1087     188.048 137.457 -22.308  1.00 69.04      A16S
ATOM  22890  C4* G   A1087     187.502 138.533 -23.198  1.00 69.04      A16S
ATOM  22891  O4* G   A1087     186.468 139.258 -22.488  1.00 69.04      A16S
ATOM  22892  C1* G   A1087     186.601 140.649 -22.724  1.00 69.04      A16S
ATOM  22893  N9   G   A1087     187.001 141.262 -21.461  1.00 49.90      A16S
ATOM  22894  C4   G   A1087     187.207 142.600 -21.212  1.00 49.90      A16S
ATOM  22895  N3   G   A1087     187.069 143.608 -22.100  1.00 49.90      A16S
ATOM  22896  C2   G   A1087     187.358 144.782 -21.560  1.00 49.90      A16S
ATOM  22897  N2   G   A1087     187.292 145.892 -22.304  1.00 49.90      A16S
ATOM  22898  N1   G   A1087     187.739 144.951 -20.251  1.00 49.90      A16S
ATOM  22899  C6   G   A1087     187.885 143.925 -19.323  1.00 49.90      A16S
ATOM  22900  O6   G   A1087     188.240 144.178 -18.172  1.00 49.90      A16S
ATOM  22901  C5   G   A1087     187.589 142.668 -19.887  1.00 49.90      A16S
ATOM  22902  N7   G   A1087     187.616 141.404 -19.315  1.00 49.90      A16S
ATOM  22903  C8   G   A1087     187.260 140.605 -20.281  1.00 49.90      A16S
ATOM  22904  C2* G   A1087     187.667 140.819 -23.804  1.00 69.04      A16S
ATOM  22905  O2* G   A1087     187.039 140.847 -25.075  1.00 69.04      A16S
ATOM  22906  C3* G   A1087     188.527 139.585 -23.561  1.00 69.04      A16S
ATOM  22907  O3* G   A1087     189.325 139.175 -24.657  1.00 69.04      A16S
ATOM  22908  P    G   A1088     190.904 139.476 -24.640  1.00 79.23      A16S
ATOM  22909  O1P G   A1088     191.455 138.731 -25.792  1.00 52.39      A16S
ATOM  22910  O2P G   A1088     191.464 139.238 -23.276  1.00 52.39      A16S
ATOM  22911  O5* G   A1088     190.980 141.030 -24.972  1.00 79.23      A16S
ATOM  22912  C5* G   A1088     190.450 141.521 -26.205  1.00 79.23      A16S
ATOM  22913  C4* G   A1088     190.519 143.021 -26.249  1.00 79.23      A16S
ATOM  22914  O4* G   A1088     189.598 143.578 -25.280  1.00 79.23      A16S
ATOM  22915  C1* G   A1088     190.122 144.792 -24.768  1.00 79.23      A16S
ATOM  22916  N9   G   A1088     190.395 144.628 -23.346  1.00 52.39      A16S
ATOM  22917  C4   G   A1088     190.722 145.640 -22.494  1.00 52.39      A16S
ATOM  22918  N3   G   A1088     190.840 146.936 -22.834  1.00 52.39      A16S
ATOM  22919  C2   G   A1088     191.187 147.683 -21.806  1.00 52.39      A16S
ATOM  22920  N2   G   A1088     191.380 148.996 -21.982  1.00 52.39      A16S
ATOM  22921  N1   G   A1088     191.379 147.197 -20.532  1.00 52.39      A16S
ATOM  22922  C6   G   A1088     191.259 145.863 -20.158  1.00 52.39      A16S
ATOM  22923  O6   G   A1088     191.453 145.532 -18.985  1.00 52.39      A16S
ATOM  22924  C5   G   A1088     190.909 145.044 -21.265  1.00 52.39      A16S
ATOM  22925  N7   G   A1088     190.709 143.672 -21.346  1.00 52.39      A16S
ATOM  22926  C8   G   A1088     190.401 143.470 -22.598  1.00 52.39      A16S
ATOM  22927  C2* G   A1088     191.433 145.065 -25.492  1.00 79.23      A16S
ATOM  22928  O2* G   A1088     191.189 145.916 -26.594  1.00 79.23      A16S
ATOM  22929  C3* G   A1088     191.847 143.654 -25.880  1.00 79.23      A16S
ATOM  22930  O3* G   A1088     192.812 143.619 -26.909  1.00 79.23      A16S
ATOM  22931  P    G   A1089     194.355 143.403 -26.520  1.00 64.55      A16S
ATOM  22932  O1P G   A1089     195.075 143.262 -27.805  1.00 57.42      A16S
ATOM  22933  O2P G   A1089     194.469 142.324 -25.499  1.00 57.42      A16S
ATOM  22934  O5* G   A1089     194.764 144.783 -25.837  1.00 64.55      A16S
ATOM  22935  C5* G   A1089     194.860 145.984 -26.622  1.00 64.55      A16S
ATOM  22936  C4* G   A1089     195.309 147.138 -25.763  1.00 64.55      A16S
ATOM  22937  O4* G   A1089     194.272 147.420 -24.793  1.00 64.55      A16S
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ATOM  22938  C1* G   A1089     194.861 147.854 -23.582  1.00 64.55      A16S
ATOM  22939  N9  G   A1089     194.598 146.862 -22.550  1.00 57.42      A16S
ATOM  22940  C4  G   A1089     194.695 147.084 -21.206  1.00 57.42      A16S
ATOM  22941  N3  G   A1089     195.003 148.259 -20.627  1.00 57.42      A16S
ATOM  22942  C2  G   A1089     195.045 148.163 -19.316  1.00 57.42      A16S
ATOM  22943  N2  G   A1089     195.343 149.239 -18.588  1.00 57.42      A16S
ATOM  22944  N1  G   A1089     194.799 147.005 -18.624  1.00 57.42      A16S
ATOM  22945  C6  G   A1089     194.478 145.785 -19.201  1.00 57.42      A16S
ATOM  22946  O6  G   A1089     194.274 144.804 -18.484  1.00 57.42      A16S
ATOM  22947  C5  G   A1089     194.433 145.872 -20.614  1.00 57.42      A16S
ATOM  22948  N7  G   A1089     194.158 144.905 -21.571  1.00 57.42      A16S
ATOM  22949  C8  G   A1089     194.260 145.540 -22.706  1.00 57.42      A16S
ATOM  22950  C2* G   A1089     196.368 147.916 -23.789  1.00 64.55      A16S
ATOM  22951  O2* G   A1089     196.764 149.225 -24.123  1.00 64.55      A16S
ATOM  22952  C3* G   A1089     196.554 146.910 -24.913  1.00 64.55      A16S
ATOM  22953  O3* G   A1089     197.794 147.093 -25.584  1.00 64.55      A16S
ATOM  22954  P   U   A1090     199.079 146.248 -25.102  1.00 59.37      A16S
ATOM  22955  O1P U   A1090     200.222 146.648 -25.973  1.00 79.12      A16S
ATOM  22956  O2P U   A1090     198.678 144.818 -25.021  1.00 79.12      A16S
ATOM  22957  O5* U   A1090     199.362 146.744 -23.610  1.00 59.37      A16S
ATOM  22958  C5* U   A1090     199.634 148.129 -23.327  1.00 59.37      A16S
ATOM  22959  C4* U   A1090     199.730 148.354 -21.840  1.00 59.37      A16S
ATOM  22960  O4* U   A1090     198.454 148.055 -21.215  1.00 59.37      A16S
ATOM  22961  C1* U   A1090     198.673 147.563 -19.898  1.00 59.37      A16S
ATOM  22962  N1  U   A1090     198.076 146.225 -19.754  1.00 79.12      A16S
ATOM  22963  C6  U   A1090     197.761 145.446 -20.841  1.00 79.12      A16S
ATOM  22964  C2  U   A1090     197.859 145.763 -18.466  1.00 79.12      A16S
ATOM  22965  O2  U   A1090     198.117 146.426 -17.472  1.00 79.12      A16S
ATOM  22966  N3  U   A1090     197.337 144.494 -18.383  1.00 79.12      A16S
ATOM  22967  C4  U   A1090     197.015 143.652 -19.430  1.00 79.12      A16S
ATOM  22968  O4  U   A1090     196.580 142.514 -19.194  1.00 79.12      A16S
ATOM  22969  C5  U   A1090     197.256 144.209 -20.726  1.00 79.12      A16S
ATOM  22970  C2* U   A1090     200.179 147.505 -19.670  1.00 59.37      A16S
ATOM  22971  O2* U   A1090     200.586 148.647 -18.953  1.00 59.37      A16S
ATOM  22972  C3* U   A1090     200.704 147.464 -21.097  1.00 59.37      A16S
ATOM  22973  O3* U   A1090     202.042 147.897 -21.175  1.00 59.37      A16S
ATOM  22974  P   U   A1091     203.221 146.825 -20.955  1.00 52.36      A16S
ATOM  22975  O1P U   A1091     204.490 147.466 -21.395  1.00 76.34      A16S
ATOM  22976  O2P U   A1091     202.812 145.516 -21.533  1.00 76.34      A16S
ATOM  22977  O5* U   A1091     203.276 146.627 -19.382  1.00 52.36      A16S
ATOM  22978  C5* U   A1091     203.480 147.741 -18.533  1.00 52.36      A16S
ATOM  22979  C4* U   A1091     203.224 147.353 -17.119  1.00 52.36      A16S
ATOM  22980  O4* U   A1091     201.857 146.896 -16.988  1.00 52.36      A16S
ATOM  22981  C1* U   A1091     201.776 145.965 -15.924  1.00 52.36      A16S
ATOM  22982  N1  U   A1091     201.110 144.737 -16.386  1.00 76.34      A16S
ATOM  22983  C6  U   A1091     200.840 144.510 -17.710  1.00 76.34      A16S
ATOM  22984  C2  U   A1091     200.769 143.802 -15.424  1.00 76.34      A16S
ATOM  22985  O2  U   A1091     200.974 143.959 -14.248  1.00 76.34      A16S
ATOM  22986  N3  U   A1091     200.175 142.669 -15.895  1.00 76.34      A16S
ATOM  22987  C4  U   A1091     199.874 142.374 -17.198  1.00 76.34      A16S
ATOM  22988  O4  U   A1091     199.278 141.321 -17.453  1.00 76.34      A16S
ATOM  22989  C5  U   A1091     200.249 143.390 -18.141  1.00 76.34      A16S
ATOM  22990  C2* U   A1091     203.199 145.712 -15.426  1.00 52.36      A16S
ATOM  22991  O2* U   A1091     203.429 146.459 -14.240  1.00 52.36      A16S
ATOM  22992  C3* U   A1091     204.032 146.182 -16.613  1.00 52.36      A16S
ATOM  22993  O3* U   A1091     205.353 146.552 -16.248  1.00 52.36      A16S
ATOM  22994  P   A   A1092     206.571 145.548 -16.561  1.00 54.33      A16S
ATOM  22995  O1P A   A1092     206.395 145.070 -17.961  1.00 71.71      A16S
ATOM  22996  O2P A   A1092     207.850 146.191 -16.147  1.00 71.71      A16S
ATOM  22997  O5* A   A1092     206.325 144.311 -15.602  1.00 54.33      A16S
ATOM  22998  C5* A   A1092     207.054 143.103 -15.786  1.00 54.33      A16S
ATOM  22999  C4* A   A1092     206.911 142.237 -14.568  1.00 54.33      A16S
ATOM  23000  O4* A   A1092     207.603 142.857 -13.455  1.00 54.33      A16S
ATOM  23001  C1* A   A1092     206.802 142.791 -12.295  1.00 54.33      A16S
ATOM  23002  N9  A   A1092     206.417 144.168 -11.988  1.00 71.71      A16S
ATOM  23003  C4  A   A1092     206.152 144.718 -10.759  1.00 71.71      A16S
ATOM  23004  N3  A   A1092     206.134 144.094  -9.570  1.00 71.71      A16S
ATOM  23005  C2  A   A1092     205.869 144.957  -8.596  1.00 71.71      A16S
ATOM  23006  N1  A   A1092     205.649 146.275  -8.669  1.00 71.71      A16S
ATOM  23007  C6  A   A1092     205.682 146.870  -9.880  1.00 71.71      A16S
ATOM  23008  N6  A   A1092     205.490 148.191  -9.956  1.00 71.71      A16S
ATOM  23009  C5  A   A1092     205.929 146.063 -10.993  1.00 71.71      A16S
ATOM  23010  N7  A   A1092     206.006 146.349 -12.348  1.00 71.71      A16S
ATOM  23011  C8  A   A1092     206.289 145.196 -12.893  1.00 71.71      A16S
ATOM  23012  C2* A   A1092     205.630 141.860 -12.610  1.00 54.33      A16S
ATOM  23013  O2* A   A1092     206.000 140.534 -12.290  1.00 54.33      A16S
ATOM  23014  C3* A   A1092     205.477 142.074 -14.110  1.00 54.33      A16S
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ATOM  23015  O3* A   A1092     204.841 141.015 -14.806  1.00 54.33      A16S
ATOM  23016  P   A   A1093     203.327 141.196 -15.295  1.00 59.76      A16S
ATOM  23017  O1P A   A1093     202.929 139.934 -15.951  1.00 55.25      A16S
ATOM  23018  O2P A   A1093     203.188 142.471 -16.031  1.00 55.25      A16S
ATOM  23019  O5* A   A1093     202.547 141.275 -13.915  1.00 59.76      A16S
ATOM  23020  C5* A   A1093     202.649 140.181 -12.982  1.00 59.76      A16S
ATOM  23021  C4* A   A1093     201.844 140.463 -11.741  1.00 59.76      A16S
ATOM  23022  O4* A   A1093     202.534 141.433 -10.924  1.00 59.76      A16S
ATOM  23023  C1* A   A1093     201.592 142.265 -10.286  1.00 59.76      A16S
ATOM  23024  N9  A   A1093     201.883 143.649 -10.661  1.00 55.25      A16S
ATOM  23025  C4  A   A1093     202.059 144.709  -9.805  1.00 55.25      A16S
ATOM  23026  N3  A   A1093     202.006 144.692  -8.465  1.00 55.25      A16S
ATOM  23027  C2  A   A1093     202.219 145.906  -7.975  1.00 55.25      A16S
ATOM  23028  N1  A   A1093     202.453 147.050  -8.622  1.00 55.25      A16S
ATOM  23029  C6  A   A1093     202.494 147.031  -9.968  1.00 55.25      A16S
ATOM  23030  N6  A   A1093     202.715 148.174 -10.616  1.00 55.25      A16S
ATOM  23031  C5  A   A1093     202.298 145.806 -10.608  1.00 55.25      A16S
ATOM  23032  N7  A   A1093     202.290 145.446 -11.945  1.00 55.25      A16S
ATOM  23033  C8  A   A1093     202.041 144.161 -11.921  1.00 55.25      A16S
ATOM  23034  C2* A   A1093     200.191 141.767 -10.662  1.00 59.76      A16S
ATOM  23035  O2* A   A1093     199.763 140.866  -9.661  1.00 59.76      A16S
ATOM  23036  C3* A   A1093     200.451 141.030 -11.968  1.00 59.76      A16S
ATOM  23037  O3* A   A1093     199.519 139.962 -12.170  1.00 59.76      A16S
ATOM  23038  P   G   A1094     198.415 140.060 -13.337  1.00 40.09      A16S
ATOM  23039  O1P G   A1094     198.937 140.954 -14.396  1.00 72.96      A16S
ATOM  23040  O2P G   A1094     197.985 138.683 -13.693  1.00 72.96      A16S
ATOM  23041  O5* G   A1094     197.203 140.811 -12.639  1.00 40.09      A16S
ATOM  23042  C5* G   A1094     196.076 140.085 -12.105  1.00 40.09      A16S
ATOM  23043  C4* G   A1094     195.290 140.975 -11.175  1.00 40.09      A16S
ATOM  23044  O4* G   A1094     193.931 140.487 -11.011  1.00 40.09      A16S
ATOM  23045  C1* G   A1094     193.629 140.431  -9.640  1.00 40.09      A16S
ATOM  23046  N9  G   A1094     192.719 139.322  -9.393  1.00 72.96      A16S
ATOM  23047  C4  G   A1094     191.420 139.415  -8.948  1.00 72.96      A16S
ATOM  23048  N3  G   A1094     190.739 140.555  -8.716  1.00 72.96      A16S
ATOM  23049  C2  G   A1094     189.523 140.313  -8.260  1.00 72.96      A16S
ATOM  23050  N2  G   A1094     188.699 141.329  -7.985  1.00 72.96      A16S
ATOM  23051  N1  G   A1094     189.022 139.057  -8.042  1.00 72.96      A16S
ATOM  23052  C6  G   A1094     189.706 137.875  -8.276  1.00 72.96      A16S
ATOM  23053  O6  G   A1094     189.167 136.794  -8.040  1.00 72.96      A16S
ATOM  23054  C5  G   A1094     191.001 138.115  -8.775  1.00 72.96      A16S
ATOM  23055  N7  G   A1094     191.998 137.223  -9.143  1.00 72.96      A16S
ATOM  23056  C8  G   A1094     192.992 137.983  -9.514  1.00 72.96      A16S
ATOM  23057  C2* G   A1094     194.968 140.298  -8.914  1.00 40.09      A16S
ATOM  23058  O2* G   A1094     194.848 140.758  -7.578  1.00 40.09      A16S
ATOM  23059  C3* G   A1094     195.872 141.164  -9.781  1.00 40.09      A16S
ATOM  23060  O3* G   A1094     195.714 142.521  -9.407  1.00 40.09      A16S
ATOM  23061  P   U   A1095     196.686 143.167  -8.309  1.00 58.37      A16S
ATOM  23062  O1P U   A1095     197.755 142.190  -8.025  1.00 61.21      A16S
ATOM  23063  O2P U   A1095     195.850 143.671  -7.193  1.00 61.21      A16S
ATOM  23064  O5* U   A1095     197.307 144.414  -9.081  1.00 58.37      A16S
ATOM  23065  C5* U   A1095     198.335 145.209  -8.483  1.00 58.37      A16S
ATOM  23066  C4* U   A1095     198.682 146.376  -9.369  1.00 58.37      A16S
ATOM  23067  O4* U   A1095     199.375 145.928 -10.558  1.00 58.37      A16S
ATOM  23068  C1* U   A1095     199.053 146.782 -11.650  1.00 58.37      A16S
ATOM  23069  N1  U   A1095     198.514 145.972 -12.755  1.00 61.21      A16S
ATOM  23070  C6  U   A1095     198.152 144.660 -12.567  1.00 61.21      A16S
ATOM  23071  C2  U   A1095     198.379 146.576 -13.996  1.00 61.21      A16S
ATOM  23072  O2  U   A1095     198.681 147.740 -14.212  1.00 61.21      A16S
ATOM  23073  N3  U   A1095     197.868 145.769 -14.975  1.00 61.21      A16S
ATOM  23074  C4  U   A1095     197.482 144.454 -14.846  1.00 61.21      A16S
ATOM  23075  O4  U   A1095     196.974 143.877 -15.806  1.00 61.21      A16S
ATOM  23076  C5  U   A1095     197.658 143.903 -13.543  1.00 61.21      A16S
ATOM  23077  C2* U   A1095     198.066 147.835 -11.147  1.00 58.37      A16S
ATOM  23078  O2* U   A1095     198.751 149.049 -10.891  1.00 58.37      A16S
ATOM  23079  C3* U   A1095     197.503 147.160  -9.901  1.00 58.37      A16S
ATOM  23080  O3* U   A1095     197.043 148.091  -8.952  1.00 58.37      A16S
ATOM  23081  P   C   A1096     195.474 148.371  -8.834  1.00 53.13      A16S
ATOM  23082  O1P C   A1096     195.328 149.187  -7.602  1.00 53.21      A16S
ATOM  23083  O2P C   A1096     194.757 147.066  -8.939  1.00 53.21      A16S
ATOM  23084  O5* C   A1096     195.136 149.247 -10.124  1.00 53.13      A16S
ATOM  23085  C5* C   A1096     195.243 150.669 -10.071  1.00 53.13      A16S
ATOM  23086  C4* C   A1096     195.496 151.230 -11.437  1.00 53.13      A16S
ATOM  23087  O4* C   A1096     196.397 150.326 -12.127  1.00 53.13      A16S
ATOM  23088  C1* C   A1096     196.161 150.394 -13.526  1.00 53.13      A16S
ATOM  23089  N1  C   A1096     195.772 149.061 -14.025  1.00 53.21      A16S
ATOM  23090  C6  C   A1096     195.614 148.001 -13.179  1.00 53.21      A16S
ATOM  23091  C2  C   A1096     195.533 148.907 -15.396  1.00 53.21      A16S
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ATOM  23092  O2   C   A1096     195.717 149.869 -16.144  1.00 53.21      A16S
ATOM  23093  N3   C   A1096     195.110 147.722 -15.866  1.00 53.21      A16S
ATOM  23094  C4   C   A1096     194.930 146.705 -15.031  1.00 53.21      A16S
ATOM  23095  N4   C   A1096     194.482 145.563 -15.535  1.00 53.21      A16S
ATOM  23096  C5   C   A1096     195.196 146.816 -13.637  1.00 53.21      A16S
ATOM  23097  C2*  C   A1096     195.019 151.387 -13.748  1.00 53.13      A16S
ATOM  23098  O2*  C   A1096     195.532 152.663 -14.084  1.00 53.13      A16S
ATOM  23099  C3*  C   A1096     194.319 151.355 -12.396  1.00 53.13      A16S
ATOM  23100  O3*  C   A1096     193.498 152.513 -12.208  1.00 53.13      A16S
ATOM  23101  P    C   A1097     192.005 152.534 -12.826  1.00 76.09      A16S
ATOM  23102  O1P  C   A1097     191.353 153.814 -12.492  1.00 62.69      A16S
ATOM  23103  O2P  C   A1097     191.330 151.263 -12.490  1.00 62.69      A16S
ATOM  23104  O5*  C   A1097     192.239 152.560 -14.393  1.00 76.09      A16S
ATOM  23105  C5*  C   A1097     192.892 153.673 -15.011  1.00 76.09      A16S
ATOM  23106  C4*  C   A1097     192.819 153.538 -16.503  1.00 76.09      A16S
ATOM  23107  O4*  C   A1097     193.581 152.377 -16.920  1.00 76.09      A16S
ATOM  23108  C1*  C   A1097     192.889 151.695 -17.953  1.00 76.09      A16S
ATOM  23109  N1   C   A1097     192.514 150.357 -17.456  1.00 62.69      A16S
ATOM  23110  C6   C   A1097     192.568 150.066 -16.121  1.00 62.69      A16S
ATOM  23111  C2   C   A1097     192.102 149.385 -18.370  1.00 62.69      A16S
ATOM  23112  O2   C   A1097     192.052 149.674 -19.571  1.00 62.69      A16S
ATOM  23113  N3   C   A1097     191.765 148.156 -17.919  1.00 62.69      A16S
ATOM  23114  C4   C   A1097     191.831 147.884 -16.614  1.00 62.69      A16S
ATOM  23115  N4   C   A1097     191.501 146.655 -16.208  1.00 62.69      A16S
ATOM  23116  C5   C   A1097     192.240 148.857 -15.664  1.00 62.69      A16S
ATOM  23117  C2*  C   A1097     191.667 152.535 -18.317  1.00 76.09      A16S
ATOM  23118  O2*  C   A1097     191.999 153.409 -19.374  1.00 76.09      A16S
ATOM  23119  C3*  C   A1097     191.416 153.275 -17.013  1.00 76.09      A16S
ATOM  23120  O3*  C   A1097     190.683 154.473 -17.175  1.00 76.09      A16S
ATOM  23121  P    C   A1098     189.104 154.470 -16.901  1.00 71.99      A16S
ATOM  23122  O1P  C   A1098     188.667 155.897 -16.934  1.00 50.15      A16S
ATOM  23123  O2P  C   A1098     188.867 153.643 -15.678  1.00 50.15      A16S
ATOM  23124  O5*  C   A1098     188.497 153.753 -18.191  1.00 71.99      A16S
ATOM  23125  C5*  C   A1098     188.535 154.425 -19.467  1.00 71.99      A16S
ATOM  23126  C4*  C   A1098     188.193 153.478 -20.590  1.00 71.99      A16S
ATOM  23127  O4*  C   A1098     189.179 152.423 -20.659  1.00 71.99      A16S
ATOM  23128  C1*  C   A1098     188.564 151.227 -21.109  1.00 71.99      A16S
ATOM  23129  N1   C   A1098     188.644 150.235 -20.044  1.00 50.15      A16S
ATOM  23130  C6   C   A1098     189.000 150.592 -18.777  1.00 50.15      A16S
ATOM  23131  C2   C   A1098     188.337 148.917 -20.346  1.00 50.15      A16S
ATOM  23132  O2   C   A1098     188.006 148.630 -21.513  1.00 50.15      A16S
ATOM  23133  N3   C   A1098     188.399 147.990 -19.370  1.00 50.15      A16S
ATOM  23134  C4   C   A1098     188.746 148.350 -18.134  1.00 50.15      A16S
ATOM  23135  N4   C   A1098     188.792 147.412 -17.198  1.00 50.15      A16S
ATOM  23136  C5   C   A1098     189.061 149.692 -17.802  1.00 50.15      A16S
ATOM  23137  C2*  C   A1098     187.098 151.526 -21.380  1.00 71.99      A16S
ATOM  23138  O2*  C   A1098     186.909 151.765 -22.761  1.00 71.99      A16S
ATOM  23139  C3*  C   A1098     186.878 152.732 -20.483  1.00 71.99      A16S
ATOM  23140  O3*  C   A1098     185.771 153.491 -20.892  1.00 71.99      A16S
ATOM  23141  P    G   A1099     184.418 153.377 -20.055  1.00 71.09      A16S
ATOM  23142  O1P  G   A1099     183.512 154.454 -20.548  1.00 55.00      A16S
ATOM  23143  O2P  G   A1099     184.818 153.339 -18.614  1.00 55.00      A16S
ATOM  23144  O5*  G   A1099     183.842 151.937 -20.435  1.00 71.09      A16S
ATOM  23145  C5*  G   A1099     183.661 151.552 -21.807  1.00 71.09      A16S
ATOM  23146  C4*  G   A1099     183.605 150.044 -21.939  1.00 71.09      A16S
ATOM  23147  O4*  G   A1099     184.788 149.456 -21.338  1.00 71.09      A16S
ATOM  23148  C1*  G   A1099     184.503 148.126 -20.948  1.00 71.09      A16S
ATOM  23149  N9   G   A1099     184.894 147.905 -19.558  1.00 55.00      A16S
ATOM  23150  C4   G   A1099     184.775 146.711 -18.896  1.00 55.00      A16S
ATOM  23151  N3   G   A1099     184.275 145.576 -19.419  1.00 55.00      A16S
ATOM  23152  C2   G   A1099     184.297 144.577 -18.555  1.00 55.00      A16S
ATOM  23153  N2   G   A1099     183.845 143.365 -18.927  1.00 55.00      A16S
ATOM  23154  N1   G   A1099     184.766 144.682 -17.267  1.00 55.00      A16S
ATOM  23155  C6   G   A1099     185.286 145.836 -16.696  1.00 55.00      A16S
ATOM  23156  O6   G   A1099     185.683 145.808 -15.514  1.00 55.00      A16S
ATOM  23157  C5   G   A1099     185.274 146.934 -17.633  1.00 55.00      A16S
ATOM  23158  N7   G   A1099     185.693 148.253 -17.498  1.00 55.00      A16S
ATOM  23159  C8   G   A1099     185.445 148.792 -18.663  1.00 55.00      A16S
ATOM  23160  C2*  G   A1099     183.017 147.879 -21.178  1.00 71.09      A16S
ATOM  23161  O2*  G   A1099     182.859 147.189 -22.396  1.00 71.09      A16S
ATOM  23162  C3*  G   A1099     182.472 149.298 -21.250  1.00 71.09      A16S
ATOM  23163  O3*  G   A1099     181.253 149.316 -21.979  1.00 71.09      A16S
ATOM  23164  P    C   A1100     179.862 149.547 -21.193  1.00 54.73      A16S
ATOM  23165  O1P  C   A1100     178.842 149.782 -22.259  1.00 35.48      A16S
ATOM  23166  O2P  C   A1100     180.099 150.595 -20.150  1.00 35.48      A16S
ATOM  23167  O5*  C   A1100     179.552 148.152 -20.473  1.00 54.73      A16S
ATOM  23168  C5*  C   A1100     179.045 147.025 -21.227  1.00 54.73      A16S
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ATOM  23169  C4* C   A1100     179.038 145.768 -20.379  1.00 54.73      A16S
ATOM  23170  O4* C   A1100     180.362 145.560 -19.856  1.00 54.73      A16S
ATOM  23171  C1* C   A1100     180.283 145.000 -18.571  1.00 54.73      A16S
ATOM  23172  N1   C   A1100     181.018 145.859 -17.653  1.00 35.48      A16S
ATOM  23173  C6   C   A1100     181.167 147.193 -17.892  1.00 35.48      A16S
ATOM  23174  C2   C   A1100     181.580 145.280 -16.533  1.00 35.48      A16S
ATOM  23175  O2   C   A1100     181.394 144.076 -16.333  1.00 35.48      A16S
ATOM  23176  N3   C   A1100     182.305 146.029 -15.690  1.00 35.48      A16S
ATOM  23177  C4   C   A1100     182.461 147.323 -15.929  1.00 35.48      A16S
ATOM  23178  N4   C   A1100     183.198 148.027 -15.060  1.00 35.48      A16S
ATOM  23179  C5   C   A1100     181.875 147.956 -17.064  1.00 35.48      A16S
ATOM  23180  C2* C   A1100     178.820 144.815 -18.192  1.00 54.73      A16S
ATOM  23181  O2* C   A1100     178.496 143.451 -18.328  1.00 54.73      A16S
ATOM  23182  C3* C   A1100     178.127 145.771 -19.161  1.00 54.73      A16S
ATOM  23183  O3* C   A1100     176.833 145.305 -19.531  1.00 54.73      A16S
ATOM  23184  P    A   A1101     175.527 146.121 -19.080  1.00 58.02      A16S
ATOM  23185  O1P A   A1101     174.467 145.795 -20.079  1.00 45.34      A16S
ATOM  23186  O2P A   A1101     175.891 147.547 -18.822  1.00 45.34      A16S
ATOM  23187  O5* A   A1101     175.137 145.439 -17.702  1.00 58.02      A16S
ATOM  23188  C5* A   A1101     174.972 144.030 -17.633  1.00 58.02      A16S
ATOM  23189  C4* A   A1101     175.778 143.485 -16.495  1.00 58.02      A16S
ATOM  23190  O4* A   A1101     175.171 143.943 -15.256  1.00 58.02      A16S
ATOM  23191  C1* A   A1101     174.756 142.839 -14.471  1.00 58.02      A16S
ATOM  23192  N9   A   A1101     173.407 143.118 -13.951  1.00 45.34      A16S
ATOM  23193  C4   A   A1101     173.064 143.237 -12.621  1.00 45.34      A16S
ATOM  23194  N3   A   A1101     173.878 143.135 -11.556  1.00 45.34      A16S
ATOM  23195  C2   A   A1101     173.199 143.319 -10.435  1.00 45.34      A16S
ATOM  23196  N1   A   A1101     171.901 143.572 -10.265  1.00 45.34      A16S
ATOM  23197  C6   A   A1101     171.112 143.661 -11.348  1.00 45.34      A16S
ATOM  23198  N6   A   A1101     169.822 143.903 -11.164  1.00 45.34      A16S
ATOM  23199  C5   A   A1101     171.702 143.489 -12.600  1.00 45.34      A16S
ATOM  23200  N7   A   A1101     171.188 143.528 -13.888  1.00 45.34      A16S
ATOM  23201  C8   A   A1101     172.232 143.306 -14.654  1.00 45.34      A16S
ATOM  23202  C2* A   A1101     174.770 141.609 -15.372  1.00 58.02      A16S
ATOM  23203  O2* A   A1101     175.007 140.425 -14.640  1.00 58.02      A16S
ATOM  23204  C3* A   A1101     175.819 141.968 -16.427  1.00 58.02      A16S
ATOM  23205  O3* A   A1101     177.166 141.450 -16.333  1.00 58.02      A16S
ATOM  23206  P    A   A1102     178.141 141.869 -15.121  1.00 49.23      A16S
ATOM  23207  O1P A   A1102     179.476 141.345 -15.462  1.00 41.00      A16S
ATOM  23208  O2P A   A1102     177.552 141.528 -13.808  1.00 41.00      A16S
ATOM  23209  O5* A   A1102     178.221 143.447 -15.231  1.00 49.23      A16S
ATOM  23210  C5* A   A1102     178.980 144.183 -14.282  1.00 49.23      A16S
ATOM  23211  C4* A   A1102     178.064 144.847 -13.293  1.00 49.23      A16S
ATOM  23212  O4* A   A1102     177.248 143.857 -12.630  1.00 49.23      A16S
ATOM  23213  C1* A   A1102     177.071 144.219 -11.278  1.00 49.23      A16S
ATOM  23214  N9   A   A1102     177.588 143.142 -10.445  1.00 41.00      A16S
ATOM  23215  C4   A   A1102     177.294 142.931  -9.123  1.00 41.00      A16S
ATOM  23216  N3   A   A1102     176.486 143.665  -8.340  1.00 41.00      A16S
ATOM  23217  C2   A   A1102     176.444 143.159  -7.103  1.00 41.00      A16S
ATOM  23218  N1   A   A1102     177.076 142.085  -6.602  1.00 41.00      A16S
ATOM  23219  C6   A   A1102     177.881 141.378  -7.417  1.00 41.00      A16S
ATOM  23220  N6   A   A1102     178.518 140.324  -6.914  1.00 41.00      A16S
ATOM  23221  C5   A   A1102     178.004 141.809  -8.755  1.00 41.00      A16S
ATOM  23222  N7   A   A1102     178.726 141.321  -9.827  1.00 41.00      A16S
ATOM  23223  C8   A   A1102     178.447 142.147 -10.800  1.00 41.00      A16S
ATOM  23224  C2* A   A1102     177.787 145.548 -11.041  1.00 49.23      A16S
ATOM  23225  O2* A   A1102     176.837 146.593 -11.112  1.00 49.23      A16S
ATOM  23226  C3* A   A1102     178.797 145.568 -12.182  1.00 49.23      A16S
ATOM  23227  O3* A   A1102     179.125 146.881 -12.625  1.00 49.23      A16S
ATOM  23228  P    C   A1103     180.361 147.667 -11.966  1.00 51.25      A16S
ATOM  23229  O1P C   A1103     180.423 148.937 -12.749  1.00 41.87      A16S
ATOM  23230  O2P C   A1103     181.573 146.793 -11.870  1.00 41.87      A16S
ATOM  23231  O5* C   A1103     179.867 147.965 -10.481  1.00 51.25      A16S
ATOM  23232  C5* C   A1103     178.834 148.928 -10.238  1.00 51.25      A16S
ATOM  23233  C4* C   A1103     178.603 149.076  -8.762  1.00 51.25      A16S
ATOM  23234  O4* C   A1103     177.996 147.873  -8.249  1.00 51.25      A16S
ATOM  23235  C1* C   A1103     178.466 147.622  -6.940  1.00 51.25      A16S
ATOM  23236  N1   C   A1103     179.089 146.292  -6.927  1.00 41.87      A16S
ATOM  23237  C6   C   A1103     179.508 145.709  -8.084  1.00 41.87      A16S
ATOM  23238  C2   C   A1103     179.226 145.620  -5.708  1.00 41.87      A16S
ATOM  23239  O2   C   A1103     178.881 146.188  -4.668  1.00 41.87      A16S
ATOM  23240  N3   C   A1103     179.733 144.378  -5.693  1.00 41.87      A16S
ATOM  23241  C4   C   A1103     180.111 143.806  -6.829  1.00 41.87      A16S
ATOM  23242  N4   C   A1103     180.583 142.566  -6.773  1.00 41.87      A16S
ATOM  23243  C5   C   A1103     180.018 144.479  -8.081  1.00 41.87      A16S
ATOM  23244  C2* C   A1103     179.418 148.750  -6.555  1.00 51.25      A16S
ATOM  23245  O2* C   A1103     178.698 149.691  -5.789  1.00 51.25      A16S
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ATOM  23246  C3* C   A1103     179.853 149.254  -7.925  1.00 51.25      A16S
ATOM  23247  O3* C   A1103     180.289 150.600  -7.928  1.00 51.25      A16S
ATOM  23248  P    G   A1104     181.840 150.922  -7.686  1.00 55.98      A16S
ATOM  23249  O1P G   A1104     182.020 152.372  -7.959  1.00 46.80      A16S
ATOM  23250  O2P G   A1104     182.643 149.928  -8.434  1.00 46.80      A16S
ATOM  23251  O5* G   A1104     182.007 150.665  -6.124  1.00 55.98      A16S
ATOM  23252  C5* G   A1104     183.139 149.982  -5.580  1.00 55.98      A16S
ATOM  23253  C4* G   A1104     182.767 149.398  -4.244  1.00 55.98      A16S
ATOM  23254  O4* G   A1104     181.790 148.349  -4.461  1.00 55.98      A16S
ATOM  23255  C1* G   A1104     182.016 147.281  -3.548  1.00 55.98      A16S
ATOM  23256  N9   G   A1104     182.392 146.087  -4.312  1.00 46.80      A16S
ATOM  23257  C4   G   A1104     182.576 144.811  -3.819  1.00 46.80      A16S
ATOM  23258  N3   G   A1104     182.427 144.423  -2.537  1.00 46.80      A16S
ATOM  23259  C2   G   A1104     182.686 143.136  -2.379  1.00 46.80      A16S
ATOM  23260  N2   G   A1104     182.599 142.580  -1.174  1.00 46.80      A16S
ATOM  23261  N1   G   A1104     183.054 142.301  -3.390  1.00 46.80      A16S
ATOM  23262  C6   G   A1104     183.218 142.678  -4.712  1.00 46.80      A16S
ATOM  23263  O6   G   A1104     183.563 141.846  -5.544  1.00 46.80      A16S
ATOM  23264  C5   G   A1104     182.948 144.050  -4.903  1.00 46.80      A16S
ATOM  23265  N7   G   A1104     182.992 144.820  -6.057  1.00 46.80      A16S
ATOM  23266  C8   G   A1104     182.651 146.016  -5.662  1.00 46.80      A16S
ATOM  23267  C2* G   A1104     183.129 147.727  -2.601  1.00 55.98      A16S
ATOM  23268  O2* G   A1104     182.568 148.338  -1.457  1.00 55.98      A16S
ATOM  23269  C3* G   A1104     183.884 148.716  -3.475  1.00 55.98      A16S
ATOM  23270  O3* G   A1104     184.664 149.628  -2.715  1.00 55.98      A16S
ATOM  23271  P    A   A1105     186.195 149.262  -2.367  1.00 72.25      A16S
ATOM  23272  O1P A   A1105     186.754 150.432  -1.637  1.00 83.37      A16S
ATOM  23273  O2P A   A1105     186.856 148.795  -3.619  1.00 83.37      A16S
ATOM  23274  O5* A   A1105     186.082 148.037  -1.347  1.00 72.25      A16S
ATOM  23275  C5* A   A1105     185.492 148.227  -0.053  1.00 72.25      A16S
ATOM  23276  C4* A   A1105     185.434 146.927   0.704  1.00 72.25      A16S
ATOM  23277  O4* A   A1105     184.583 145.994  -0.004  1.00 72.25      A16S
ATOM  23278  C1* A   A1105     185.088 144.675   0.147  1.00 72.25      A16S
ATOM  23279  N9   A   A1105     185.468 144.178  -1.180  1.00 83.37      A16S
ATOM  23280  C4   A   A1105     185.822 142.890  -1.510  1.00 83.37      A16S
ATOM  23281  N3   A   A1105     185.865 141.821  -0.699  1.00 83.37      A16S
ATOM  23282  C2   A   A1105     186.264 140.746  -1.368  1.00 83.37      A16S
ATOM  23283  N1   A   A1105     186.603 140.627  -2.654  1.00 83.37      A16S
ATOM  23284  C6   A   A1105     186.551 141.720  -3.439  1.00 83.37      A16S
ATOM  23285  N6   A   A1105     186.895 141.605  -4.722  1.00 83.37      A16S
ATOM  23286  C5   A   A1105     186.138 142.919  -2.856  1.00 83.37      A16S
ATOM  23287  N7   A   A1105     185.969 144.194  -3.375  1.00 83.37      A16S
ATOM  23288  C8   A   A1105     185.569 144.902  -2.347  1.00 83.37      A16S
ATOM  23289  C2* A   A1105     186.296 144.754   1.083  1.00 72.25      A16S
ATOM  23290  O2* A   A1105     185.893 144.506   2.414  1.00 72.25      A16S
ATOM  23291  C3* A   A1105     186.750 146.192   0.871  1.00 72.25      A16S
ATOM  23292  O3* A   A1105     187.515 146.687   1.959  1.00 72.25      A16S
ATOM  23293  P    G   A1106     189.101 146.411   2.004  1.00 64.25      A16S
ATOM  23294  O1P G   A1106     189.695 147.284   3.050  1.00 58.17      A16S
ATOM  23295  O2P G   A1106     189.613 146.483   0.612  1.00 58.17      A16S
ATOM  23296  O5* G   A1106     189.207 144.916   2.533  1.00 64.25      A16S
ATOM  23297  C5* G   A1106     188.704 144.581   3.831  1.00 64.25      A16S
ATOM  23298  C4* G   A1106     188.838 143.109   4.072  1.00 64.25      A16S
ATOM  23299  O4* G   A1106     187.994 142.388   3.140  1.00 64.25      A16S
ATOM  23300  C1* G   A1106     188.645 141.192   2.736  1.00 64.25      A16S
ATOM  23301  N9   G   A1106     188.890 141.237   1.293  1.00 58.17      A16S
ATOM  23302  C4   G   A1106     189.338 140.183   0.533  1.00 58.17      A16S
ATOM  23303  N3   G   A1106     189.616 138.944   0.992  1.00 58.17      A16S
ATOM  23304  C2   G   A1106     190.009 138.140   0.029  1.00 58.17      A16S
ATOM  23305  N2   G   A1106     190.315 136.869   0.317  1.00 58.17      A16S
ATOM  23306  N1   G   A1106     190.128 138.522  -1.285  1.00 58.17      A16S
ATOM  23307  C6   G   A1106     189.854 139.793  -1.780  1.00 58.17      A16S
ATOM  23308  O6   G   A1106     190.000 140.030  -2.983  1.00 58.17      A16S
ATOM  23309  C5   G   A1106     189.425 140.668  -0.755  1.00 58.17      A16S
ATOM  23310  N7   G   A1106     189.044 142.005  -0.808  1.00 58.17      A16S
ATOM  23311  C8   G   A1106     188.737 142.302   0.427  1.00 58.17      A16S
ATOM  23312  C2* G   A1106     189.958 141.104   3.506  1.00 64.25      A16S
ATOM  23313  O2* G   A1106     189.781 140.341   4.680  1.00 64.25      A16S
ATOM  23314  C3* G   A1106     190.220 142.566   3.800  1.00 64.25      A16S
ATOM  23315  O3* G   A1106     191.111 142.757   4.859  1.00 64.25      A16S
ATOM  23316  P    C   A1107     192.639 143.033   4.515  1.00 54.31      A16S
ATOM  23317  O1P C   A1107     193.357 143.447   5.735  1.00 32.96      A16S
ATOM  23318  O2P C   A1107     192.626 143.914   3.326  1.00 32.96      A16S
ATOM  23319  O5* C   A1107     193.195 141.604   4.105  1.00 54.31      A16S
ATOM  23320  C5* C   A1107     193.238 140.553   5.078  1.00 54.31      A16S
ATOM  23321  C4* C   A1107     193.738 139.265   4.464  1.00 54.31      A16S
ATOM  23322  O4* C   A1107     192.799 138.759   3.483  1.00 54.31      A16S
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ATOM  23323  C1* C   A1107     193.498 138.076   2.465  1.00 54.31      A16S
ATOM  23324  N1  C   A1107     193.317 138.831   1.224  1.00 32.96      A16S
ATOM  23325  C6  C   A1107     193.015 140.158   1.267  1.00 32.96      A16S
ATOM  23326  C2  C   A1107     193.456 138.178  -0.008  1.00 32.96      A16S
ATOM  23327  O2  C   A1107     193.732 136.961  -0.021  1.00 32.96      A16S
ATOM  23328  N3  C   A1107     193.283 138.885  -1.152  1.00 32.96      A16S
ATOM  23329  C4  C   A1107     192.973 140.183  -1.089  1.00 32.96      A16S
ATOM  23330  N4  C   A1107     192.788 140.852  -2.229  1.00 32.96      A16S
ATOM  23331  C5  C   A1107     192.833 140.863   0.149  1.00 32.96      A16S
ATOM  23332  C2* C   A1107     194.965 138.049   2.876  1.00 54.31      A16S
ATOM  23333  O2* C   A1107     195.208 136.892   3.663  1.00 54.31      A16S
ATOM  23334  C3* C   A1107     195.056 139.306   3.721  1.00 54.31      A16S
ATOM  23335  O3* C   A1107     196.162 139.247   4.588  1.00 54.31      A16S
ATOM  23336  P   G   A1108     197.521 139.984   4.174  1.00 78.46      A16S
ATOM  23337  O1P G   A1108     198.527 139.236   4.968  1.00 39.48      A16S
ATOM  23338  O2P G   A1108     197.367 141.453   4.349  1.00 39.48      A16S
ATOM  23339  O5* G   A1108     197.715 139.680   2.612  1.00 78.46      A16S
ATOM  23340  C5* G   A1108     198.225 138.397   2.178  1.00 78.46      A16S
ATOM  23341  C4* G   A1108     198.516 138.350   0.678  1.00 78.46      A16S
ATOM  23342  O4* G   A1108     197.301 138.362  -0.116  1.00 78.46      A16S
ATOM  23343  C1* G   A1108     197.631 138.709  -1.450  1.00 78.46      A16S
ATOM  23344  N9  G   A1108     196.879 139.883  -1.865  1.00 39.48      A16S
ATOM  23345  C4  G   A1108     196.781 140.365  -3.154  1.00 39.48      A16S
ATOM  23346  N3  G   A1108     197.335 139.814  -4.253  1.00 39.48      A16S
ATOM  23347  C2  G   A1108     197.076 140.516  -5.347  1.00 39.48      A16S
ATOM  23348  N2  G   A1108     197.551 140.109  -6.529  1.00 39.48      A16S
ATOM  23349  N1  G   A1108     196.331 141.667  -5.366  1.00 39.48      A16S
ATOM  23350  C6  G   A1108     195.745 142.255  -4.251  1.00 39.48      A16S
ATOM  23351  O6  G   A1108     195.082 143.297  -4.378  1.00 39.48      A16S
ATOM  23352  C5  G   A1108     196.018 141.508  -3.061  1.00 39.48      A16S
ATOM  23353  N7  G   A1108     195.633 141.734  -1.746  1.00 39.48      A16S
ATOM  23354  C8  G   A1108     196.162 140.743  -1.075  1.00 39.48      A16S
ATOM  23355  C2* G   A1108     199.113 139.062  -1.482  1.00 78.46      A16S
ATOM  23356  O2* G   A1108     199.844 137.944  -1.950  1.00 78.46      A16S
ATOM  23357  C3* G   A1108     199.404 139.373  -0.019  1.00 78.46      A16S
ATOM  23358  O3* G   A1108     200.808 139.217   0.187  1.00 78.46      A16S
ATOM  23359  P   C   A1109     201.809 140.423  -0.216  1.00 36.30      A16S
ATOM  23360  O1P C   A1109     203.193 139.863  -0.315  1.00 70.64      A16S
ATOM  23361  O2P C   A1109     201.545 141.574   0.688  1.00 70.64      A16S
ATOM  23362  O5* C   A1109     201.354 140.884  -1.673  1.00 36.30      A16S
ATOM  23363  C5* C   A1109     201.884 140.243  -2.837  1.00 36.30      A16S
ATOM  23364  C4* C   A1109     201.819 141.166  -4.022  1.00 36.30      A16S
ATOM  23365  O4* C   A1109     200.441 141.472  -4.322  1.00 36.30      A16S
ATOM  23366  C1* C   A1109     200.343 142.782  -4.844  1.00 36.30      A16S
ATOM  23367  N1  C   A1109     199.383 143.541  -4.029  1.00 70.64      A16S
ATOM  23368  C6  C   A1109     198.943 143.056  -2.829  1.00 70.64      A16S
ATOM  23369  C2  C   A1109     198.918 144.771  -4.505  1.00 70.64      A16S
ATOM  23370  O2  C   A1109     199.349 145.199  -5.579  1.00 70.64      A16S
ATOM  23371  N3  C   A1109     198.022 145.462  -3.780  1.00 70.64      A16S
ATOM  23372  C4  C   A1109     197.599 144.979  -2.614  1.00 70.64      A16S
ATOM  23373  N4  C   A1109     196.717 145.697  -1.927  1.00 70.64      A16S
ATOM  23374  C5  C   A1109     198.063 143.737  -2.097  1.00 70.64      A16S
ATOM  23375  C2* C   A1109     201.744 143.388  -4.878  1.00 36.30      A16S
ATOM  23376  O2* C   A1109     202.213 143.316  -6.205  1.00 36.30      A16S
ATOM  23377  C3* C   A1109     202.488 142.517  -3.860  1.00 36.30      A16S
ATOM  23378  O3* C   A1109     203.889 142.414  -4.101  1.00 36.30      A16S
ATOM  23379  P   A   A1110     204.916 143.218  -3.174  1.00 43.55      A16S
ATOM  23380  O1P A   A1110     206.261 142.906  -3.700  1.00 72.95      A16S
ATOM  23381  O2P A   A1110     204.614 142.965  -1.747  1.00 72.95      A16S
ATOM  23382  O5* A   A1110     204.572 144.736  -3.488  1.00 43.55      A16S
ATOM  23383  C5* A   A1110     204.773 145.261  -4.808  1.00 43.55      A16S
ATOM  23384  C4* A   A1110     204.091 146.596  -4.951  1.00 43.55      A16S
ATOM  23385  O4* A   A1110     202.661 146.391  -4.803  1.00 43.55      A16S
ATOM  23386  C1* A   A1110     202.087 147.488  -4.106  1.00 43.55      A16S
ATOM  23387  N9  A   A1110     201.672 147.013  -2.783  1.00 72.95      A16S
ATOM  23388  C4  A   A1110     200.658 147.522  -2.011  1.00 72.95      A16S
ATOM  23389  N3  A   A1110     199.842 148.545  -2.309  1.00 72.95      A16S
ATOM  23390  C2  A   A1110     198.986 148.761  -1.320  1.00 72.95      A16S
ATOM  23391  N1  A   A1110     198.858 148.117  -0.156  1.00 72.95      A16S
ATOM  23392  C6  A   A1110     199.689 147.090   0.107  1.00 72.95      A16S
ATOM  23393  N6  A   A1110     199.549 146.433   1.257  1.00 72.95      A16S
ATOM  23394  C5  A   A1110     200.650 146.767  -0.854  1.00 72.95      A16S
ATOM  23395  N7  A   A1110     201.644 145.798  -0.890  1.00 72.95      A16S
ATOM  23396  C8  A   A1110     202.220 145.984  -2.050  1.00 72.95      A16S
ATOM  23397  C2* A   A1110     203.181 148.546  -3.968  1.00 43.55      A16S
ATOM  23398  O2* A   A1110     203.151 149.401  -5.104  1.00 43.55      A16S
ATOM  23399  C3* A   A1110     204.423 147.668  -3.915  1.00 43.55      A16S
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ATOM  23400  O3*  A  A1110     205.627 148.387  -4.161  1.00 43.55      A16S
ATOM  23401  P    A  A1111     206.611 148.712  -2.929  1.00 71.80      A16S
ATOM  23402  O1P  A  A1111     207.821 149.357  -3.493  1.00 61.69      A16S
ATOM  23403  O2P  A  A1111     206.753 147.509  -2.062  1.00 61.69      A16S
ATOM  23404  O5*  A  A1111     205.806 149.777  -2.065  1.00 71.80      A16S
ATOM  23405  C5*  A  A1111     205.486 151.081  -2.588  1.00 71.80      A16S
ATOM  23406  C4*  A  A1111     204.627 151.845  -1.601  1.00 71.80      A16S
ATOM  23407  O4*  A  A1111     203.360 151.147  -1.422  1.00 71.80      A16S
ATOM  23408  C1*  A  A1111     202.939 151.245  -0.069  1.00 71.80      A16S
ATOM  23409  N9   A  A1111     203.011 149.908   0.532  1.00 61.69      A16S
ATOM  23410  C4   A  A1111     202.219 149.382   1.528  1.00 61.69      A16S
ATOM  23411  N3   A  A1111     201.181 149.966   2.144  1.00 61.69      A16S
ATOM  23412  C2   A  A1111     200.674 149.160   3.075  1.00 61.69      A16S
ATOM  23413  N1   A  A1111     201.057 147.934   3.435  1.00 61.69      A16S
ATOM  23414  C6   A  A1111     202.100 147.376   2.798  1.00 61.69      A16S
ATOM  23415  N6   A  A1111     202.484 146.151   3.162  1.00 61.69      A16S
ATOM  23416  C5   A  A1111     202.723 148.124   1.786  1.00 61.69      A16S
ATOM  23417  N7   A  A1111     203.798 147.850   0.956  1.00 61.69      A16S
ATOM  23418  C8   A  A1111     203.922 148.931   0.231  1.00 61.69      A16S
ATOM  23419  C2*  A  A1111     203.915 152.192   0.627  1.00 71.80      A16S
ATOM  23420  O2*  A  A1111     203.438 153.519   0.510  1.00 71.80      A16S
ATOM  23421  C3*  A  A1111     205.180 151.969  -0.188  1.00 71.80      A16S
ATOM  23422  O3*  A  A1111     206.136 153.008  -0.032  1.00 71.80      A16S
ATOM  23423  P    C  A1112     207.356 152.813   1.006  1.00 90.16      A16S
ATOM  23424  O1P  C  A1112     208.279 153.941   0.743  1.00 59.43      A16S
ATOM  23425  O2P  C  A1112     207.872 151.421   0.935  1.00 59.43      A16S
ATOM  23426  O5*  C  A1112     206.686 152.980   2.448  1.00 90.16      A16S
ATOM  23427  C5*  C  A1112     206.095 154.239   2.862  1.00 90.16      A16S
ATOM  23428  C4*  C  A1112     205.422 154.104   4.218  1.00 90.16      A16S
ATOM  23429  O4*  C  A1112     204.278 153.216   4.131  1.00 90.16      A16S
ATOM  23430  C1*  C  A1112     204.151 152.482   5.338  1.00 90.16      A16S
ATOM  23431  N1   C  A1112     204.347 151.055   5.042  1.00 59.43      A16S
ATOM  23432  C6   C  A1112     204.992 150.658   3.903  1.00 59.43      A16S
ATOM  23433  C2   C  A1112     203.892 150.101   5.966  1.00 59.43      A16S
ATOM  23434  O2   C  A1112     203.259 150.479   6.964  1.00 59.43      A16S
ATOM  23435  N3   C  A1112     204.146 148.798   5.743  1.00 59.43      A16S
ATOM  23436  C4   C  A1112     204.803 148.424   4.643  1.00 59.43      A16S
ATOM  23437  N4   C  A1112     205.055 147.120   4.476  1.00 59.43      A16S
ATOM  23438  C5   C  A1112     205.238 149.368   3.666  1.00 59.43      A16S
ATOM  23439  C2*  C  A1112     205.234 152.973   6.299  1.00 90.16      A16S
ATOM  23440  O2*  C  A1112     204.703 153.956   7.160  1.00 90.16      A16S
ATOM  23441  C3*  C  A1112     206.273 153.526   5.336  1.00 90.16      A16S
ATOM  23442  O3*  C  A1112     207.063 154.518   5.951  1.00 90.16      A16S
ATOM  23443  P    C  A1113     208.658 154.379   5.922  1.00 69.35      A16S
ATOM  23444  O1P  C  A1113     209.216 155.550   6.638  1.00 73.14      A16S
ATOM  23445  O2P  C  A1113     209.053 154.130   4.515  1.00 73.14      A16S
ATOM  23446  O5*  C  A1113     208.966 153.071   6.778  1.00 69.35      A16S
ATOM  23447  C5*  C  A1113     209.100 153.134   8.205  1.00 69.35      A16S
ATOM  23448  C4*  C  A1113     209.881 151.946   8.704  1.00 69.35      A16S
ATOM  23449  O4*  C  A1113     209.233 150.744   8.216  1.00 69.35      A16S
ATOM  23450  C1*  C  A1113     210.208 149.766   7.880  1.00 69.35      A16S
ATOM  23451  N1   C  A1113     210.126 149.500   6.426  1.00 73.14      A16S
ATOM  23452  C6   C  A1113     209.494 150.376   5.583  1.00 73.14      A16S
ATOM  23453  C2   C  A1113     210.720 148.336   5.916  1.00 73.14      A16S
ATOM  23454  O2   C  A1113     211.286 147.557   6.696  1.00 73.14      A16S
ATOM  23455  N3   C  A1113     210.664 148.095   4.587  1.00 73.14      A16S
ATOM  23456  C4   C  A1113     210.052 148.962   3.775  1.00 73.14      A16S
ATOM  23457  N4   C  A1113     210.031 148.688   2.469  1.00 73.14      A16S
ATOM  23458  C5   C  A1113     209.435 150.150   4.266  1.00 73.14      A16S
ATOM  23459  C2*  C  A1113     211.568 150.327   8.284  1.00 69.35      A16S
ATOM  23460  O2*  C  A1113     211.899 149.895   9.590  1.00 69.35      A16S
ATOM  23461  C3*  C  A1113     211.307 151.823   8.194  1.00 69.35      A16S
ATOM  23462  O3*  C  A1113     212.241 152.574   8.943  1.00 69.35      A16S
ATOM  23463  P    C  A1114     213.526 153.183   8.197  1.00 69.91      A16S
ATOM  23464  O1P  C  A1114     214.117 154.222   9.073  1.00 73.88      A16S
ATOM  23465  O2P  C  A1114     213.122 153.544   6.811  1.00 73.88      A16S
ATOM  23466  O5*  C  A1114     214.540 151.960   8.124  1.00 69.91      A16S
ATOM  23467  C5*  C  A1114     214.917 151.260   9.312  1.00 69.91      A16S
ATOM  23468  C4*  C  A1114     215.877 150.152   8.975  1.00 69.91      A16S
ATOM  23469  O4*  C  A1114     215.189 149.108   8.234  1.00 69.91      A16S
ATOM  23470  C1*  C  A1114     216.043 148.600   7.217  1.00 69.91      A16S
ATOM  23471  N1   C  A1114     215.495 149.001   5.905  1.00 73.88      A16S
ATOM  23472  C6   C  A1114     214.619 150.045   5.801  1.00 73.88      A16S
ATOM  23473  C2   C  A1114     215.885 148.300   4.767  1.00 73.88      A16S
ATOM  23474  O2   C  A1114     216.704 147.382   4.882  1.00 73.88      A16S
ATOM  23475  N3   C  A1114     215.368 148.645   3.571  1.00 73.88      A16S
ATOM  23476  C4   C  A1114     214.499 149.651   3.486  1.00 73.88      A16S
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ATOM  23477  N4   C   A1114     213.987 149.942   2.289  1.00 73.88      A16S
ATOM  23478  C5   C   A1114     214.106 150.400   4.624  1.00 73.88      A16S
ATOM  23479  C2*  C   A1114     217.415 149.233   7.427  1.00 69.91      A16S
ATOM  23480  O2*  C   A1114     218.195 148.408   8.276  1.00 69.91      A16S
ATOM  23481  C3*  C   A1114     217.024 150.557   8.067  1.00 69.91      A16S
ATOM  23482  O3*  C   A1114     218.088 151.186   8.747  1.00 69.91      A16S
ATOM  23483  P    C   A1115     218.964 152.284   7.972  1.00 82.97      A16S
ATOM  23484  O1P  C   A1115     219.907 152.856   8.969  1.00 59.65      A16S
ATOM  23485  O2P  C   A1115     218.035 153.182   7.225  1.00 59.65      A16S
ATOM  23486  O5*  C   A1115     219.804 151.435   6.917  1.00 82.97      A16S
ATOM  23487  C5*  C   A1115     220.840 150.540   7.360  1.00 82.97      A16S
ATOM  23488  C4*  C   A1115     221.534 149.908   6.180  1.00 82.97      A16S
ATOM  23489  O4*  C   A1115     220.613 149.034   5.477  1.00 82.97      A16S
ATOM  23490  C1*  C   A1115     220.903 149.051   4.090  1.00 82.97      A16S
ATOM  23491  N1   C   A1115     219.750 149.596   3.361  1.00 59.65      A16S
ATOM  23492  C6   C   A1115     218.655 150.080   4.017  1.00 59.65      A16S
ATOM  23493  C2   C   A1115     219.810 149.643   1.965  1.00 59.65      A16S
ATOM  23494  O2   C   A1115     220.797 149.153   1.389  1.00 59.65      A16S
ATOM  23495  N3   C   A1115     218.799 150.217   1.278  1.00 59.65      A16S
ATOM  23496  C4   C   A1115     217.758 150.725   1.932  1.00 59.65      A16S
ATOM  23497  N4   C   A1115     216.816 151.334   1.218  1.00 59.65      A16S
ATOM  23498  C5   C   A1115     217.647 150.647   3.348  1.00 59.65      A16S
ATOM  23499  C2*  C   A1115     222.106 149.966   3.886  1.00 82.97      A16S
ATOM  23500  O2*  C   A1115     223.290 149.201   3.843  1.00 82.97      A16S
ATOM  23501  C3*  C   A1115     222.016 150.862   5.107  1.00 82.97      A16S
ATOM  23502  O3*  C   A1115     223.259 151.454   5.399  1.00 82.97      A16S
ATOM  23503  P    C   A1116     223.633 152.858   4.718  1.00 73.74      A16S
ATOM  23504  O1P  C   A1116     224.919 153.283   5.332  1.00 51.47      A16S
ATOM  23505  O2P  C   A1116     222.449 153.763   4.764  1.00 51.47      A16S
ATOM  23506  O5*  C   A1116     223.880 152.519   3.182  1.00 73.74      A16S
ATOM  23507  C5*  C   A1116     224.961 151.675   2.774  1.00 73.74      A16S
ATOM  23508  C4*  C   A1116     224.991 151.579   1.276  1.00 73.74      A16S
ATOM  23509  O4*  C   A1116     223.773 150.943   0.816  1.00 73.74      A16S
ATOM  23510  C1*  C   A1116     223.379 151.505  -0.424  1.00 73.74      A16S
ATOM  23511  N1   C   A1116     222.026 152.080  -0.297  1.00 51.47      A16S
ATOM  23512  C6   C   A1116     221.450 152.275   0.924  1.00 51.47      A16S
ATOM  23513  C2   C   A1116     221.341 152.442  -1.462  1.00 51.47      A16S
ATOM  23514  O2   C   A1116     221.869 152.217  -2.558  1.00 51.47      A16S
ATOM  23515  N3   C   A1116     220.122 153.017  -1.364  1.00 51.47      A16S
ATOM  23516  C4   C   A1116     219.575 153.211  -0.165  1.00 51.47      A16S
ATOM  23517  N4   C   A1116     218.366 153.780  -0.108  1.00 51.47      A16S
ATOM  23518  C5   C   A1116     220.239 152.831   1.034  1.00 51.47      A16S
ATOM  23519  C2*  C   A1116     224.411 152.567  -0.800  1.00 73.74      A16S
ATOM  23520  O2*  C   A1116     225.342 152.018  -1.706  1.00 73.74      A16S
ATOM  23521  C3*  C   A1116     225.010 152.913   0.556  1.00 73.74      A16S
ATOM  23522  O3*  C   A1116     226.324 153.439   0.453  1.00 73.74      A16S
ATOM  23523  P    G   A1117     226.578 155.009   0.694  1.00 69.54      A16S
ATOM  23524  O1P  G   A1117     228.022 155.135   1.030  1.00 66.41      A16S
ATOM  23525  O2P  G   A1117     225.546 155.519   1.644  1.00 66.41      A16S
ATOM  23526  O5*  G   A1117     226.328 155.681  -0.729  1.00 69.54      A16S
ATOM  23527  C5*  G   A1117     225.165 155.349  -1.462  1.00 69.54      A16S
ATOM  23528  C4*  G   A1117     225.328 155.679  -2.913  1.00 69.54      A16S
ATOM  23529  O4*  G   A1117     224.261 154.984  -3.594  1.00 69.54      A16S
ATOM  23530  C1*  G   A1117     223.449 155.902  -4.294  1.00 69.54      A16S
ATOM  23531  N9   G   A1117     222.223 156.082  -3.513  1.00 66.41      A16S
ATOM  23532  C4   G   A1117     220.971 156.377  -3.997  1.00 66.41      A16S
ATOM  23533  N3   G   A1117     220.637 156.528  -5.295  1.00 66.41      A16S
ATOM  23534  C2   G   A1117     219.357 156.833  -5.440  1.00 66.41      A16S
ATOM  23535  N2   G   A1117     218.844 157.001  -6.667  1.00 66.41      A16S
ATOM  23536  N1   G   A1117     218.484 156.994  -4.392  1.00 66.41      A16S
ATOM  23537  C6   G   A1117     218.815 156.848  -3.048  1.00 66.41      A16S
ATOM  23538  O6   G   A1117     217.960 157.038  -2.174  1.00 66.41      A16S
ATOM  23539  C5   G   A1117     220.169 156.497  -2.881  1.00 66.41      A16S
ATOM  23540  N7   G   A1117     220.888 156.245  -1.724  1.00 66.41      A16S
ATOM  23541  C8   G   A1117     222.097 156.004  -2.143  1.00 66.41      A16S
ATOM  23542  C2*  G   A1117     224.283 157.174  -4.471  1.00 69.54      A16S
ATOM  23543  O2*  G   A1117     225.019 157.102  -5.672  1.00 69.54      A16S
ATOM  23544  C3*  G   A1117     225.144 157.159  -3.209  1.00 69.54      A16S
ATOM  23545  O3*  G   A1117     226.408 157.797  -3.389  1.00 69.54      A16S
ATOM  23546  P    C   A1118     226.794 159.078  -2.497  1.00 79.62      A16S
ATOM  23547  O1P  C   A1118     228.226 159.373  -2.751  1.00 74.11      A16S
ATOM  23548  O2P  C   A1118     226.332 158.839  -1.106  1.00 74.11      A16S
ATOM  23549  O5*  C   A1118     225.928 160.248  -3.132  1.00 79.62      A16S
ATOM  23550  C5*  C   A1118     226.316 160.848  -4.372  1.00 79.62      A16S
ATOM  23551  C4*  C   A1118     225.566 162.137  -4.581  1.00 79.62      A16S
ATOM  23552  O4*  C   A1118     224.174 161.831  -4.849  1.00 79.62      A16S
ATOM  23553  C1*  C   A1118     223.343 162.775  -4.195  1.00 79.62      A16S
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ATOM  23554  N1  C   A1118     222.605 162.064  -3.128  1.00 74.11       A16S
ATOM  23555  C6  C   A1118     223.174 161.004  -2.474  1.00 74.11       A16S
ATOM  23556  C2  C   A1118     221.320 162.495  -2.781  1.00 74.11       A16S
ATOM  23557  O2  C   A1118     220.821 163.458  -3.383  1.00 74.11       A16S
ATOM  23558  N3  C   A1118     220.656 161.854  -1.793  1.00 74.11       A16S
ATOM  23559  C4  C   A1118     221.228 160.829  -1.158  1.00 74.11       A16S
ATOM  23560  N4  C   A1118     220.539 160.232  -0.181  1.00 74.11       A16S
ATOM  23561  C5  C   A1118     222.530 160.369  -1.493  1.00 74.11       A16S
ATOM  23562  C2* C   A1118     224.255 163.865  -3.625  1.00 79.62       A16S
ATOM  23563  O2* C   A1118     224.441 164.897  -4.578  1.00 79.62       A16S
ATOM  23564  C3* C   A1118     225.534 163.081  -3.384  1.00 79.62       A16S
ATOM  23565  O3* C   A1118     226.680 163.918  -3.283  1.00 79.62       A16S
ATOM  23566  P   C   A1119     227.145 164.450  -1.838  1.00107.64       A16S
ATOM  23567  O1P C   A1119     228.458 165.111  -2.019  1.00 76.42       A16S
ATOM  23568  O2P C   A1119     227.010 163.362  -0.837  1.00 76.42       A16S
ATOM  23569  O5* C   A1119     226.053 165.553  -1.488  1.00107.64       A16S
ATOM  23570  C5* C   A1119     225.906 166.727  -2.306  1.00107.64       A16S
ATOM  23571  C4* C   A1119     224.735 167.561  -1.832  1.00107.64       A16S
ATOM  23572  O4* C   A1119     223.500 166.822  -2.043  1.00107.64       A16S
ATOM  23573  C1* C   A1119     222.596 167.095  -0.985  1.00107.64       A16S
ATOM  23574  N1  C   A1119     222.392 165.849  -0.219  1.00 76.42       A16S
ATOM  23575  C6  C   A1119     223.374 164.898  -0.153  1.00 76.42       A16S
ATOM  23576  C2  C   A1119     221.185 165.665   0.469  1.00 76.42       A16S
ATOM  23577  O2  C   A1119     220.293 166.528   0.371  1.00 76.42       A16S
ATOM  23578  N3  C   A1119     221.020 164.552   1.223  1.00 76.42       A16S
ATOM  23579  C4  C   A1119     221.999 163.648   1.302  1.00 76.42       A16S
ATOM  23580  N4  C   A1119     221.806 162.585   2.084  1.00 76.42       A16S
ATOM  23581  C5  C   A1119     223.222 163.798   0.589  1.00 76.42       A16S
ATOM  23582  C2* C   A1119     223.235 168.167  -0.098  1.00107.64       A16S
ATOM  23583  O2* C   A1119     222.830 169.465  -0.496  1.00107.64       A16S
ATOM  23584  C3* C   A1119     224.714 167.925  -0.352  1.00107.64       A16S
ATOM  23585  O3* C   A1119     225.500 169.061  -0.025  1.00107.64       A16S
ATOM  23586  P   G   A1120     226.062 169.226   1.474  1.00162.29       A16S
ATOM  23587  O1P G   A1120     227.135 170.247   1.405  1.00 81.61       A16S
ATOM  23588  O2P G   A1120     226.362 167.883   2.062  1.00 81.61       A16S
ATOM  23589  O5* G   A1120     224.827 169.829   2.285  1.00162.29       A16S
ATOM  23590  C5* G   A1120     224.187 171.060   1.879  1.00162.29       A16S
ATOM  23591  C4* G   A1120     222.916 171.276   2.674  1.00162.29       A16S
ATOM  23592  O4* G   A1120     222.055 170.126   2.472  1.00162.29       A16S
ATOM  23593  C1* G   A1120     221.377 169.810   3.676  1.00162.29       A16S
ATOM  23594  N9  G   A1120     221.790 168.474   4.100  1.00 81.61       A16S
ATOM  23595  C4  G   A1120     221.201 167.705   5.076  1.00 81.61       A16S
ATOM  23596  N3  G   A1120     220.132 168.051   5.814  1.00 81.61       A16S
ATOM  23597  C2  G   A1120     219.802 167.109   6.676  1.00 81.61       A16S
ATOM  23598  N2  G   A1120     218.762 167.298   7.489  1.00 81.61       A16S
ATOM  23599  N1  G   A1120     220.467 165.917   6.804  1.00 81.61       A16S
ATOM  23600  C6  G   A1120     221.574 165.536   6.056  1.00 81.61       A16S
ATOM  23601  O6  G   A1120     222.107 164.433   6.254  1.00 81.61       A16S
ATOM  23602  C5  G   A1120     221.940 166.543   5.125  1.00 81.61       A16S
ATOM  23603  N7  G   A1120     222.973 166.577   4.198  1.00 81.61       A16S
ATOM  23604  C8  G   A1120     222.845 167.737   3.613  1.00 81.61       A16S
ATOM  23605  C2* G   A1120     221.732 170.883   4.706  1.00162.29       A16S
ATOM  23606  O2* G   A1120     220.734 171.884   4.701  1.00162.29       A16S
ATOM  23607  C3* G   A1120     223.078 171.377   4.188  1.00162.29       A16S
ATOM  23608  O3* G   A1120     223.352 172.711   4.619  1.00162.29       A16S
ATOM  23609  P   U   A1121     224.031 172.967   6.060  1.00133.17       A16S
ATOM  23610  O1P U   A1121     224.243 174.431   6.170  1.00106.66       A16S
ATOM  23611  O2P U   A1121     225.182 172.050   6.227  1.00106.66       A16S
ATOM  23612  O5* U   A1121     222.920 172.527   7.118  1.00133.17       A16S
ATOM  23613  C5* U   A1121     221.817 173.398   7.454  1.00133.17       A16S
ATOM  23614  C4* U   A1121     221.039 172.841   8.629  1.00133.17       A16S
ATOM  23615  O4* U   A1121     220.463 171.560   8.259  1.00133.17       A16S
ATOM  23616  C1* U   A1121     220.468 170.689   9.380  1.00133.17       A16S
ATOM  23617  N1  U   A1121     221.260 169.492   9.047  1.00106.66       A16S
ATOM  23618  C6  U   A1121     222.165 169.495   8.006  1.00106.66       A16S
ATOM  23619  C2  U   A1121     221.075 168.353   9.820  1.00106.66       A16S
ATOM  23620  O2  U   A1121     220.287 168.297  10.748  1.00106.66       A16S
ATOM  23621  N3  U   A1121     221.853 167.281   9.466  1.00106.66       A16S
ATOM  23622  C4  U   A1121     222.776 167.224   8.448  1.00106.66       A16S
ATOM  23623  O4  U   A1121     223.414 166.186   8.270  1.00106.66       A16S
ATOM  23624  C5  U   A1121     222.908 168.430   7.692  1.00106.66       A16S
ATOM  23625  C2* U   A1121     221.031 171.461  10.576  1.00133.17       A16S
ATOM  23626  O2* U   A1121     219.973 171.958  11.372  1.00133.17       A16S
ATOM  23627  C3* U   A1121     221.845 172.553   9.888  1.00133.17       A16S
ATOM  23628  O3* U   A1121     222.006 173.707  10.713  1.00133.17       A16S
ATOM  23629  P   U   A1122     223.223 173.767  11.769  1.00102.04       A16S
ATOM  23630  O1P U   A1122     223.078 175.035  12.537  1.00125.24       A16S
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ATOM  23631  O2P U   A1122     224.497 173.488  11.050  1.00125.24      A16S
ATOM  23632  O5* U   A1122     222.933 172.546  12.751  1.00102.04      A16S
ATOM  23633  C5* U   A1122     221.922 172.640  13.771  1.00102.04      A16S
ATOM  23634  C4* U   A1122     222.026 171.471  14.715  1.00102.04      A16S
ATOM  23635  O4* U   A1122     221.643 170.267  14.009  1.00102.04      A16S
ATOM  23636  C1* U   A1122     222.474 169.192  14.412  1.00102.04      A16S
ATOM  23637  N1  U   A1122     223.225 168.724  13.234  1.00125.24      A16S
ATOM  23638  C6  U   A1122     223.415 169.538  12.137  1.00125.24      A16S
ATOM  23639  C2  U   A1122     223.746 167.437  13.261  1.00125.24      A16S
ATOM  23640  O2  U   A1122     223.603 166.675  14.207  1.00125.24      A16S
ATOM  23641  N3  U   A1122     224.446 167.075  12.136  1.00125.24      A16S
ATOM  23642  C4  U   A1122     224.675 167.845  11.015  1.00125.24      A16S
ATOM  23643  O4  U   A1122     225.334 167.378  10.086  1.00125.24      A16S
ATOM  23644  C5  U   A1122     224.103 169.153  11.061  1.00125.24      A16S
ATOM  23645  C2* U   A1122     223.391 169.702  15.527  1.00102.04      A16S
ATOM  23646  O2* U   A1122     222.841 169.409  16.796  1.00102.04      A16S
ATOM  23647  C3* U   A1122     223.430 171.193  15.231  1.00102.04      A16S
ATOM  23648  O3* U   A1122     223.762 171.969  16.375  1.00102.04      A16S
ATOM  23649  P   A   A1123     225.289 172.421  16.610  1.00110.92      A16S
ATOM  23650  O1P A   A1123     225.324 173.206  17.867  1.00124.79      A16S
ATOM  23651  O2P A   A1123     225.793 173.030  15.353  1.00124.79      A16S
ATOM  23652  O5* A   A1123     226.065 171.052  16.870  1.00110.92      A16S
ATOM  23653  C5* A   A1123     225.906 170.343  18.114  1.00110.92      A16S
ATOM  23654  C4* A   A1123     226.735 169.078  18.124  1.00110.92      A16S
ATOM  23655  O4* A   A1123     226.219 168.133  17.149  1.00110.92      A16S
ATOM  23656  C1* A   A1123     227.280 167.317  16.675  1.00110.92      A16S
ATOM  23657  N9  A   A1123     227.358 167.418  15.217  1.00124.79      A16S
ATOM  23658  C4  A   A1123     227.818 166.433  14.377  1.00124.79      A16S
ATOM  23659  N3  A   A1123     228.238 165.203  14.717  1.00124.79      A16S
ATOM  23660  C2  A   A1123     228.633 164.529  13.642  1.00124.79      A16S
ATOM  23661  N1  A   A1123     228.657 164.916  12.362  1.00124.79      A16S
ATOM  23662  C6  A   A1123     228.227 166.158  12.054  1.00124.79      A16S
ATOM  23663  N6  A   A1123     228.256 166.545  10.778  1.00124.79      A16S
ATOM  23664  C5  A   A1123     227.777 166.972  13.106  1.00124.79      A16S
ATOM  23665  N7  A   A1123     227.277 168.266  13.137  1.00124.79      A16S
ATOM  23666  C8  A   A1123     227.038 168.481  14.408  1.00124.79      A16S
ATOM  23667  C2* A   A1123     228.575 167.788  17.343  1.00110.92      A16S
ATOM  23668  O2* A   A1123     228.896 166.939  18.429  1.00110.92      A16S
ATOM  23669  C3* A   A1123     228.211 169.205  17.773  1.00110.92      A16S
ATOM  23670  O3* A   A1123     229.005 169.641  18.869  1.00110.92      A16S
ATOM  23671  P   G   A1124     229.954 170.925  18.694  1.00120.41      A16S
ATOM  23672  O1P G   A1124     230.233 171.426  20.057  1.00 98.92      A16S
ATOM  23673  O2P G   A1124     229.340 171.832  17.684  1.00 98.92      A16S
ATOM  23674  O5* G   A1124     231.309 170.358  18.080  1.00120.41      A16S
ATOM  23675  C5* G   A1124     232.438 170.006  18.919  1.00120.41      A16S
ATOM  23676  C4* G   A1124     232.705 168.531  18.802  1.00120.41      A16S
ATOM  23677  O4* G   A1124     232.000 168.069  17.637  1.00120.41      A16S
ATOM  23678  C1* G   A1124     232.739 167.055  17.011  1.00120.41      A16S
ATOM  23679  N9  G   A1124     232.723 167.302  15.569  1.00 98.92      A16S
ATOM  23680  C4  G   A1124     232.913 166.364  14.584  1.00 98.92      A16S
ATOM  23681  N3  G   A1124     233.220 165.063  14.780  1.00 98.92      A16S
ATOM  23682  C2  G   A1124     233.293 164.401  13.646  1.00 98.92      A16S
ATOM  23683  N2  G   A1124     233.586 163.097  13.666  1.00 98.92      A16S
ATOM  23684  N1  G   A1124     233.080 164.970  12.412  1.00 98.92      A16S
ATOM  23685  C6  G   A1124     232.758 166.307  12.188  1.00 98.92      A16S
ATOM  23686  O6  G   A1124     232.569 166.716  11.035  1.00 98.92      A16S
ATOM  23687  C5  G   A1124     232.685 167.030  13.397  1.00 98.92      A16S
ATOM  23688  N7  G   A1124     232.403 168.370  13.628  1.00 98.92      A16S
ATOM  23689  C8  G   A1124     232.447 168.489  14.927  1.00 98.92      A16S
ATOM  23690  C2* G   A1124     234.065 166.848  17.759  1.00120.41      A16S
ATOM  23691  O2* G   A1124     234.000 165.647  18.508  1.00120.41      A16S
ATOM  23692  C3* G   A1124     234.158 168.107  18.629  1.00120.41      A16S
ATOM  23693  O3* G   A1124     234.693 167.794  19.920  1.00120.41      A16S
ATOM  23694  P   U   A1125     236.248 167.415  20.093  1.00201.26      A16S
ATOM  23695  O1P U   A1125     236.545 167.710  21.515  1.00 79.83      A16S
ATOM  23696  O2P U   A1125     236.996 168.126  19.025  1.00 79.83      A16S
ATOM  23697  O5* U   A1125     236.336 165.820  19.924  1.00201.26      A16S
ATOM  23698  C5* U   A1125     237.123 165.186  18.862  1.00201.26      A16S
ATOM  23699  C4* U   A1125     238.451 164.654  19.398  1.00201.26      A16S
ATOM  23700  O4* U   A1125     238.684 165.228  20.708  1.00201.26      A16S
ATOM  23701  C1* U   A1125     239.415 164.318  21.508  1.00201.26      A16S
ATOM  23702  N1  U   A1125     238.649 164.046  22.733  1.00 79.83      A16S
ATOM  23703  C6  U   A1125     237.453 164.690  22.984  1.00 79.83      A16S
ATOM  23704  C2  U   A1125     239.167 163.127  23.642  1.00 79.83      A16S
ATOM  23705  O2  U   A1125     240.210 162.515  23.455  1.00 79.83      A16S
ATOM  23706  N3  U   A1125     238.413 162.949  24.778  1.00 79.83      A16S
ATOM  23707  C4  U   A1125     237.218 163.575  25.093  1.00 79.83      A16S
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ATOM  23708  O4  U   A1125     236.674 163.335  26.172  1.00 79.83      A16S
ATOM  23709  C5  U   A1125     236.743 164.492  24.100  1.00 79.83      A16S
ATOM  23710  C2* U   A1125     239.718 163.075  20.673  1.00201.26      A16S
ATOM  23711  O2* U   A1125     241.042 163.177  20.190  1.00201.26      A16S
ATOM  23712  C3* U   A1125     238.649 163.141  19.582  1.00201.26      A16S
ATOM  23713  O3* U   A1125     239.120 162.484  18.379  1.00201.26      A16S
ATOM  23714  P   U   A1126     239.497 160.897  18.391  1.00123.44      A16S
ATOM  23715  O1P U   A1126     238.221 160.146  18.549  1.00142.23      A16S
ATOM  23716  O2P U   A1126     240.616 160.639  19.342  1.00142.23      A16S
ATOM  23717  O5* U   A1126     240.067 160.624  16.920  1.00123.44      A16S
ATOM  23718  C5* U   A1126     240.088 159.292  16.353  1.00123.44      A16S
ATOM  23719  C4* U   A1126     239.367 159.278  15.019  1.00123.44      A16S
ATOM  23720  O4* U   A1126     238.025 159.794  15.211  1.00123.44      A16S
ATOM  23721  C1* U   A1126     237.628 160.550  14.080  1.00123.44      A16S
ATOM  23722  N1  U   A1126     237.228 161.902  14.519  1.00142.23      A16S
ATOM  23723  C6  U   A1126     237.228 162.251  15.855  1.00142.23      A16S
ATOM  23724  C2  U   A1126     236.847 162.827  13.547  1.00142.23      A16S
ATOM  23725  O2  U   A1126     236.812 162.571  12.352  1.00142.23      A16S
ATOM  23726  N3  U   A1126     236.506 164.066  14.031  1.00142.23      A16S
ATOM  23727  C4  U   A1126     236.499 164.472  15.347  1.00142.23      A16S
ATOM  23728  O4  U   A1126     236.226 165.639  15.614  1.00142.23      A16S
ATOM  23729  C5  U   A1126     236.883 163.466  16.286  1.00142.23      A16S
ATOM  23730  C2* U   A1126     238.768 160.507  13.057  1.00123.44      A16S
ATOM  23731  O2* U   A1126     238.487 159.526  12.085  1.00123.44      A16S
ATOM  23732  C3* U   A1126     239.971 160.143  13.920  1.00123.44      A16S
ATOM  23733  O3* U   A1126     240.904 159.387  13.151  1.00123.44      A16S
ATOM  23734  P   G   A1127     242.046 160.137  12.301  1.00 78.55      A16S
ATOM  23735  O1P G   A1127     242.533 159.185  11.269  1.00201.26      A16S
ATOM  23736  O2P G   A1127     243.009 160.735  13.258  1.00201.26      A16S
ATOM  23737  O5* G   A1127     241.300 161.328  11.553  1.00 78.55      A16S
ATOM  23738  C5* G   A1127     240.761 161.137  10.247  1.00 78.55      A16S
ATOM  23739  C4* G   A1127     240.168 162.421   9.729  1.00 78.55      A16S
ATOM  23740  O4* G   A1127     239.150 162.891  10.645  1.00 78.55      A16S
ATOM  23741  C1* G   A1127     239.110 164.308  10.620  1.00 78.55      A16S
ATOM  23742  N9  G   A1127     239.310 164.810  11.975  1.00201.26      A16S
ATOM  23743  C4  G   A1127     239.154 166.110  12.372  1.00201.26      A16S
ATOM  23744  N3  G   A1127     238.813 167.140  11.573  1.00201.26      A16S
ATOM  23745  C2  G   A1127     238.736 168.275  12.238  1.00201.26      A16S
ATOM  23746  N2  G   A1127     238.414 169.402  11.588  1.00201.26      A16S
ATOM  23747  N1  G   A1127     238.970 168.389  13.587  1.00201.26      A16S
ATOM  23748  C6  G   A1127     239.322 167.340  14.431  1.00201.26      A16S
ATOM  23749  O6  G   A1127     239.505 167.553  15.636  1.00201.26      A16S
ATOM  23750  C5  G   A1127     239.415 166.116  13.725  1.00201.26      A16S
ATOM  23751  N7  G   A1127     239.744 164.843  14.169  1.00201.26      A16S
ATOM  23752  C8  G   A1127     239.673 164.102  13.097  1.00201.26      A16S
ATOM  23753  C2* G   A1127     240.172 164.798   9.637  1.00 78.55      A16S
ATOM  23754  O2* G   A1127     239.545 165.117   8.407  1.00 78.55      A16S
ATOM  23755  C3* G   A1127     241.115 163.596   9.583  1.00 78.55      A16S
ATOM  23756  O3* G   A1127     241.836 163.513   8.365  1.00 78.55      A16S
ATOM  23757  P   C   A1128     243.438 163.420   8.400  1.00 92.05      A16S
ATOM  23758  O1P C   A1128     243.834 162.254   7.582  1.00 95.25      A16S
ATOM  23759  O2P C   A1128     243.887 163.498   9.818  1.00 95.25      A16S
ATOM  23760  O5* C   A1128     243.900 164.738   7.631  1.00 92.05      A16S
ATOM  23761  C5* C   A1128     243.407 165.041   6.305  1.00 92.05      A16S
ATOM  23762  C4* C   A1128     243.382 166.542   6.080  1.00 92.05      A16S
ATOM  23763  O4* C   A1128     242.553 167.145   7.106  1.00 92.05      A16S
ATOM  23764  C1* C   A1128     243.105 168.386   7.506  1.00 92.05      A16S
ATOM  23765  N1  C   A1128     243.432 168.290   8.949  1.00 95.25      A16S
ATOM  23766  C6  C   A1128     243.659 167.072   9.531  1.00 95.25      A16S
ATOM  23767  C2  C   A1128     243.484 169.461   9.726  1.00 95.25      A16S
ATOM  23768  O2  C   A1128     243.310 170.558   9.182  1.00 95.25      A16S
ATOM  23769  N3  C   A1128     243.724 169.361  11.055  1.00 95.25      A16S
ATOM  23770  C4  C   A1128     243.915 168.162  11.612  1.00 95.25      A16S
ATOM  23771  N4  C   A1128     244.125 168.109  12.931  1.00 95.25      A16S
ATOM  23772  C5  C   A1128     243.897 166.963  10.844  1.00 95.25      A16S
ATOM  23773  C2* C   A1128     244.293 168.679   6.585  1.00 92.05      A16S
ATOM  23774  O2* C   A1128     243.869 169.373   5.427  1.00 92.05      A16S
ATOM  23775  C3* C   A1128     244.715 167.282   6.165  1.00 92.05      A16S
ATOM  23776  O3* C   A1128     245.363 167.360   4.894  1.00 92.05      A16S
ATOM  23777  P   C   A1129     246.863 167.941   4.796  1.00201.26      A16S
ATOM  23778  O1P C   A1129     247.036 168.429   3.409  1.00201.26      A16S
ATOM  23779  O2P C   A1129     247.808 166.934   5.348  1.00201.26      A16S
ATOM  23780  O5* C   A1129     246.854 169.224   5.744  1.00201.26      A16S
ATOM  23781  C5* C   A1129     248.053 169.692   6.410  1.00201.26      A16S
ATOM  23782  C4* C   A1129     248.008 171.199   6.543  1.00201.26      A16S
ATOM  23783  O4* C   A1129     248.897 171.666   7.589  1.00201.26      A16S
ATOM  23784  C1* C   A1129     249.278 173.004   7.308  1.00201.26      A16S
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ATOM  23785  N1  C   A1129     250.730 173.189   7.563  1.00201.26      A16S
ATOM  23786  C6  C   A1129     251.585 172.121   7.620  1.00201.26      A16S
ATOM  23787  C2  C   A1129     251.224 174.501   7.760  1.00201.26      A16S
ATOM  23788  O2  C   A1129     250.441 175.465   7.692  1.00201.26      A16S
ATOM  23789  N3  C   A1129     252.540 174.679   8.017  1.00201.26      A16S
ATOM  23790  C4  C   A1129     253.359 173.628   8.076  1.00201.26      A16S
ATOM  23791  N4  C   A1129     254.647 173.859   8.333  1.00201.26      A16S
ATOM  23792  C5  C   A1129     252.892 172.292   7.874  1.00201.26      A16S
ATOM  23793  C2* C   A1129     248.765 173.371   5.908  1.00201.26      A16S
ATOM  23794  O2* C   A1129     247.644 174.221   6.051  1.00201.26      A16S
ATOM  23795  C3* C   A1129     248.408 172.004   5.315  1.00201.26      A16S
ATOM  23796  O3* C   A1129     247.323 172.050   4.380  1.00201.26      A16S
ATOM  23797  P   A   A1130     247.454 172.899   3.013  1.00104.79      A16S
ATOM  23798  O1P A   A1130     248.834 172.783   2.448  1.00 89.87      A16S
ATOM  23799  O2P A   A1130     246.889 174.240   3.325  1.00 89.87      A16S
ATOM  23800  O5* A   A1130     246.467 172.161   2.002  1.00104.79      A16S
ATOM  23801  C5* A   A1130     245.375 171.362   2.498  1.00104.79      A16S
ATOM  23802  C4* A   A1130     244.064 172.051   2.232  1.00104.79      A16S
ATOM  23803  O4* A   A1130     243.100 171.510   3.158  1.00104.79      A16S
ATOM  23804  C1* A   A1130     242.271 172.545   3.640  1.00104.79      A16S
ATOM  23805  N9  A   A1130     242.328 172.531   5.102  1.00 89.87      A16S
ATOM  23806  C4  A   A1130     241.533 173.234   5.977  1.00 89.87      A16S
ATOM  23807  N3  A   A1130     240.593 174.150   5.677  1.00 89.87      A16S
ATOM  23808  C2  A   A1130     239.990 174.580   6.784  1.00 89.87      A16S
ATOM  23809  N1  A   A1130     240.199 174.220   8.061  1.00 89.87      A16S
ATOM  23810  C6  A   A1130     241.152 173.297   8.326  1.00 89.87      A16S
ATOM  23811  N6  A   A1130     241.352 172.921   9.594  1.00 89.87      A16S
ATOM  23812  C5  A   A1130     241.873 172.777   7.241  1.00 89.87      A16S
ATOM  23813  N7  A   A1130     242.902 171.852   7.167  1.00 89.87      A16S
ATOM  23814  C8  A   A1130     243.143 171.755   5.885  1.00 89.87      A16S
ATOM  23815  C2* A   A1130     242.664 173.850   2.950  1.00104.79      A16S
ATOM  23816  O2* A   A1130     241.790 174.054   1.863  1.00104.79      A16S
ATOM  23817  C3* A   A1130     244.085 173.553   2.489  1.00104.79      A16S
ATOM  23818  O3* A   A1130     244.331 174.218   1.249  1.00104.79      A16S
ATOM  23819  P   G   A1131     245.452 175.370   1.140  1.00201.18      A16S
ATOM  23820  O1P G   A1131     244.993 176.287   0.059  1.00113.00      A16S
ATOM  23821  O2P G   A1131     246.783 174.724   1.015  1.00113.00      A16S
ATOM  23822  O5* G   A1131     245.368 176.167   2.522  1.00201.18      A16S
ATOM  23823  C5* G   A1131     245.227 177.604   2.525  1.00201.18      A16S
ATOM  23824  C4* G   A1131     245.443 178.181   3.908  1.00201.18      A16S
ATOM  23825  O4* G   A1131     244.388 177.752   4.807  1.00201.18      A16S
ATOM  23826  C1* G   A1131     244.883 177.723   6.137  1.00201.18      A16S
ATOM  23827  N9  G   A1131     244.792 176.362   6.648  1.00113.00      A16S
ATOM  23828  C4  G   A1131     244.613 175.994   7.958  1.00113.00      A16S
ATOM  23829  N3  G   A1131     244.421 176.831   8.998  1.00113.00      A16S
ATOM  23830  C2  G   A1131     244.310 176.177  10.144  1.00113.00      A16S
ATOM  23831  N2  G   A1131     244.107 176.854  11.286  1.00113.00      A16S
ATOM  23832  N1  G   A1131     244.388 174.809  10.258  1.00113.00      A16S
ATOM  23833  C6  G   A1131     244.588 173.930   9.199  1.00113.00      A16S
ATOM  23834  O6  G   A1131     244.654 172.713   9.410  1.00113.00      A16S
ATOM  23835  C5  G   A1131     244.698 174.618   7.965  1.00113.00      A16S
ATOM  23836  N7  G   A1131     244.889 174.131   6.681  1.00113.00      A16S
ATOM  23837  C8  G   A1131     244.925 175.198   5.932  1.00113.00      A16S
ATOM  23838  C2* G   A1131     246.349 178.150   6.095  1.00201.18      A16S
ATOM  23839  O2* G   A1131     246.444 179.522   6.415  1.00201.18      A16S
ATOM  23840  C3* G   A1131     246.725 177.837   4.650  1.00201.18      A16S
ATOM  23841  O3* G   A1131     247.842 178.606   4.219  1.00201.18      A16S
ATOM  23842  P   C   A1132     249.319 178.236   4.749  1.00193.55      A16S
ATOM  23843  O1P C   A1132     250.276 178.922   3.852  1.00115.73      A16S
ATOM  23844  O2P C   A1132     249.441 176.773   4.955  1.00115.73      A16S
ATOM  23845  O5* C   A1132     249.385 178.915   6.188  1.00193.55      A16S
ATOM  23846  C5* C   A1132     249.218 180.338   6.346  1.00193.55      A16S
ATOM  23847  C4* C   A1132     249.281 180.717   7.808  1.00193.55      A16S
ATOM  23848  O4* C   A1132     248.120 180.200   8.512  1.00193.55      A16S
ATOM  23849  C1* C   A1132     248.483 179.853   9.839  1.00193.55      A16S
ATOM  23850  N1  C   A1132     248.184 178.424  10.068  1.00115.73      A16S
ATOM  23851  C6  C   A1132     248.233 177.514   9.047  1.00115.73      A16S
ATOM  23852  C2  C   A1132     247.860 178.007  11.367  1.00115.73      A16S
ATOM  23853  O2  C   A1132     247.805 178.849  12.274  1.00115.73      A16S
ATOM  23854  N3  C   A1132     247.618 176.699  11.603  1.00115.73      A16S
ATOM  23855  C4  C   A1132     247.683 175.819  10.603  1.00115.73      A16S
ATOM  23856  N4  C   A1132     247.449 174.534  10.888  1.00115.73      A16S
ATOM  23857  C5  C   A1132     247.994 176.216   9.268  1.00115.73      A16S
ATOM  23858  C2* C   A1132     249.969 180.173  10.020  1.00193.55      A16S
ATOM  23859  O2* C   A1132     250.116 181.429  10.652  1.00193.55      A16S
ATOM  23860  C3* C   A1132     250.466 180.163   8.580  1.00193.55      A16S
ATOM  23861  O3* C   A1132     251.638 180.940   8.393  1.00193.55      A16S
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ATOM  23862  P    G   A1133     253.069 180.210   8.337  1.00159.13      A16S
ATOM  23863  O1P  G   A1133     254.036 181.160   7.727  1.00159.36      A16S
ATOM  23864  O2P  G   A1133     252.892 178.859   7.739  1.00159.36      A16S
ATOM  23865  O5*  G   A1133     253.452 180.019   9.869  1.00159.13      A16S
ATOM  23866  C5*  G   A1133     253.755 181.151  10.709  1.00159.13      A16S
ATOM  23867  C4*  G   A1133     253.906 180.702  12.139  1.00159.13      A16S
ATOM  23868  O4*  G   A1133     252.623 180.224  12.622  1.00159.13      A16S
ATOM  23869  C1*  G   A1133     252.813 179.084  13.444  1.00159.13      A16S
ATOM  23870  N9   G   A1133     252.144 177.947  12.813  1.00159.36      A16S
ATOM  23871  C4   G   A1133     251.747 176.790  13.437  1.00159.36      A16S
ATOM  23872  N3   G   A1133     251.884 176.511  14.749  1.00159.36      A16S
ATOM  23873  C2   G   A1133     251.420 175.316  15.050  1.00159.36      A16S
ATOM  23874  N2   G   A1133     251.470 174.884  16.316  1.00159.36      A16S
ATOM  23875  N1   G   A1133     250.871 174.456  14.134  1.00159.36      A16S
ATOM  23876  C6   G   A1133     250.718 174.721  12.777  1.00159.36      A16S
ATOM  23877  O6   G   A1133     250.207 173.872  12.036  1.00159.36      A16S
ATOM  23878  C5   G   A1133     251.206 176.004  12.441  1.00159.36      A16S
ATOM  23879  N7   G   A1133     251.247 176.659  11.218  1.00159.36      A16S
ATOM  23880  C8   G   A1133     251.807 177.807  11.486  1.00159.36      A16S
ATOM  23881  C2*  G   A1133     254.319 178.851  13.579  1.00159.13      A16S
ATOM  23882  O2*  G   A1133     254.806 179.431  14.771  1.00159.13      A16S
ATOM  23883  C3*  G   A1133     254.844 179.522  12.320  1.00159.13      A16S
ATOM  23884  O3*  G   A1133     256.200 179.915  12.419  1.00159.13      A16S
ATOM  23885  P    G   A1134     257.350 178.873  12.013  1.00154.54      A16S
ATOM  23886  O1P  G   A1134     258.629 179.624  11.942  1.00200.99      A16S
ATOM  23887  O2P  G   A1134     256.889 178.097  10.832  1.00200.99      A16S
ATOM  23888  O5*  G   A1134     257.415 177.885  13.260  1.00154.54      A16S
ATOM  23889  C5*  G   A1134     257.841 178.362  14.546  1.00154.54      A16S
ATOM  23890  C4*  G   A1134     257.651 177.295  15.594  1.00154.54      A16S
ATOM  23891  O4*  G   A1134     256.235 177.022  15.757  1.00154.54      A16S
ATOM  23892  C1*  G   A1134     256.046 175.646  16.039  1.00154.54      A16S
ATOM  23893  N9   G   A1134     255.256 175.057  14.958  1.00200.99      A16S
ATOM  23894  C4   G   A1134     254.829 173.754  14.891  1.00200.99      A16S
ATOM  23895  N3   G   A1134     255.041 172.806  15.826  1.00200.99      A16S
ATOM  23896  C2   G   A1134     254.533 171.644  15.472  1.00200.99      A16S
ATOM  23897  N2   G   A1134     254.652 170.596  16.297  1.00200.99      A16S
ATOM  23898  N1   G   A1134     253.871 171.425  14.287  1.00200.99      A16S
ATOM  23899  C6   G   A1134     253.643 172.386  13.307  1.00200.99      A16S
ATOM  23900  O6   G   A1134     253.041 172.080  12.268  1.00200.99      A16S
ATOM  23901  C5   G   A1134     254.178 173.643  13.680  1.00200.99      A16S
ATOM  23902  N7   G   A1134     254.175 174.858  13.009  1.00200.99      A16S
ATOM  23903  C8   G   A1134     254.819 175.668  13.805  1.00200.99      A16S
ATOM  23904  C2*  G   A1134     257.431 174.997  16.135  1.00154.54      A16S
ATOM  23905  O2*  G   A1134     257.849 174.940  17.486  1.00154.54      A16S
ATOM  23906  C3*  G   A1134     258.272 175.942  15.287  1.00154.54      A16S
ATOM  23907  O3*  G   A1134     259.657 175.894  15.614  1.00154.54      A16S
ATOM  23908  P    U   A1135     260.698 175.229  14.578  1.00201.26      A16S
ATOM  23909  O1P  U   A1135     260.305 175.655  13.205  1.00158.38      A16S
ATOM  23910  O2P  U   A1135     262.077 175.500  15.061  1.00158.38      A16S
ATOM  23911  O5*  U   A1135     260.429 173.663  14.706  1.00201.26      A16S
ATOM  23912  C5*  U   A1135     260.478 173.004  15.989  1.00201.26      A16S
ATOM  23913  C4*  U   A1135     259.961 171.587  15.873  1.00201.26      A16S
ATOM  23914  O4*  U   A1135     258.593 171.617  15.392  1.00201.26      A16S
ATOM  23915  C1*  U   A1135     258.358 170.505  14.547  1.00201.26      A16S
ATOM  23916  N1   U   A1135     257.847 170.999  13.255  1.00158.38      A16S
ATOM  23917  C6   U   A1135     258.530 171.950  12.527  1.00158.38      A16S
ATOM  23918  C2   U   A1135     256.638 170.490  12.798  1.00158.38      A16S
ATOM  23919  O2   U   A1135     256.010 169.628  13.389  1.00158.38      A16S
ATOM  23920  N3   U   A1135     256.193 171.028  11.617  1.00158.38      A16S
ATOM  23921  C4   U   A1135     256.815 171.991  10.856  1.00158.38      A16S
ATOM  23922  O4   U   A1135     256.256 172.414   9.847  1.00158.38      A16S
ATOM  23923  C5   U   A1135     258.066 172.448  11.376  1.00158.38      A16S
ATOM  23924  C2*  U   A1135     259.641 169.666  14.491  1.00201.26      A16S
ATOM  23925  O2*  U   A1135     259.529 168.593  15.405  1.00201.26      A16S
ATOM  23926  C3*  U   A1135     260.707 170.680  14.903  1.00201.26      A16S
ATOM  23927  O3*  U   A1135     261.815 170.066  15.568  1.00201.26      A16S
ATOM  23928  P    U   A1136     262.911 169.236  14.726  1.00201.26      A16S
ATOM  23929  O1P  U   A1136     262.754 169.571  13.284  1.00183.07      A16S
ATOM  23930  O2P  U   A1136     264.226 169.448  15.386  1.00183.07      A16S
ATOM  23931  O5*  U   A1136     262.486 167.712  14.942  1.00201.26      A16S
ATOM  23932  C5*  U   A1136     263.421 166.632  14.701  1.00201.26      A16S
ATOM  23933  C4*  U   A1136     263.131 165.464  15.624  1.00201.26      A16S
ATOM  23934  O4*  U   A1136     263.216 165.924  16.995  1.00201.26      A16S
ATOM  23935  C1*  U   A1136     262.272 165.234  17.790  1.00201.26      A16S
ATOM  23936  N1   U   A1136     261.432 166.217  18.491  1.00183.07      A16S
ATOM  23937  C6   U   A1136     261.175 167.459  17.954  1.00183.07      A16S
ATOM  23938  C2   U   A1136     260.906 165.851  19.719  1.00183.07      A16S
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ATOM  23939  O2  U  A1136     261.103 164.760  20.232  1.00183.07      A16S
ATOM  23940  N3  U  A1136     260.138 166.811  20.327  1.00183.07      A16S
ATOM  23941  C4  U  A1136     259.845 168.069  19.846  1.00183.07      A16S
ATOM  23942  O4  U  A1136     259.123 168.816  20.508  1.00183.07      A16S
ATOM  23943  C5  U  A1136     260.422 168.371  18.572  1.00183.07      A16S
ATOM  23944  C2* U  A1136     261.503 164.258  16.895  1.00201.26      A16S
ATOM  23945  O2* U  A1136     262.028 162.956  17.066  1.00201.26      A16S
ATOM  23946  C3* U  A1136     261.749 164.831  15.499  1.00201.26      A16S
ATOM  23947  O3* U  A1136     261.754 163.758  14.554  1.00201.26      A16S
ATOM  23948  P   C  A1137     261.591 164.055  12.981  1.00201.26      A16S
ATOM  23949  O1P C  A1137     262.840 164.713  12.516  1.00196.88      A16S
ATOM  23950  O2P C  A1137     261.145 162.793  12.336  1.00196.88      A16S
ATOM  23951  O5* C  A1137     260.406 165.116  12.877  1.00201.26      A16S
ATOM  23952  C5* C  A1137     259.043 164.747  13.167  1.00201.26      A16S
ATOM  23953  C4* C  A1137     258.114 165.309  12.114  1.00201.26      A16S
ATOM  23954  O4* C  A1137     258.302 166.742  12.028  1.00201.26      A16S
ATOM  23955  C1* C  A1137     258.126 167.164  10.689  1.00201.26      A16S
ATOM  23956  N1  C  A1137     259.306 167.948  10.274  1.00196.88      A16S
ATOM  23957  C6  C  A1137     260.484 167.866  10.966  1.00196.88      A16S
ATOM  23958  C2  C  A1137     259.200 168.798   9.161  1.00196.88      A16S
ATOM  23959  O2  C  A1137     258.129 168.844   8.533  1.00196.88      A16S
ATOM  23960  N3  C  A1137     260.267 169.546   8.799  1.00196.88      A16S
ATOM  23961  C4  C  A1137     261.406 169.466   9.493  1.00196.88      A16S
ATOM  23962  N4  C  A1137     262.429 170.231   9.108  1.00196.88      A16S
ATOM  23963  C5  C  A1137     261.546 168.600  10.615  1.00196.88      A16S
ATOM  23964  C2* C  A1137     257.802 165.938   9.830  1.00201.26      A16S
ATOM  23965  O2* C  A1137     256.405 165.904   9.620  1.00201.26      A16S
ATOM  23966  C3* C  A1137     258.312 164.786  10.697  1.00201.26      A16S
ATOM  23967  O3* C  A1137     257.499 163.622  10.522  1.00201.26      A16S
ATOM  23968  P   G  A1138     258.083 162.316   9.781  1.00201.26      A16S
ATOM  23969  O1P G  A1138     257.993 162.540   8.313  1.00164.43      A16S
ATOM  23970  O2P G  A1138     259.392 161.971  10.390  1.00164.43      A16S
ATOM  23971  O5* G  A1138     257.037 161.175  10.173  1.00201.26      A16S
ATOM  23972  C5* G  A1138     255.647 161.499  10.426  1.00201.26      A16S
ATOM  23973  C4* G  A1138     255.124 160.726  11.620  1.00201.26      A16S
ATOM  23974  O4* G  A1138     256.064 160.826  12.720  1.00201.26      A16S
ATOM  23975  C1* G  A1138     255.359 160.886  13.948  1.00201.26      A16S
ATOM  23976  N9  G  A1138     255.790 162.084  14.665  1.00164.43      A16S
ATOM  23977  C4  G  A1138     255.644 163.398  14.267  1.00164.43      A16S
ATOM  23978  N3  G  A1138     255.038 163.828  13.139  1.00164.43      A16S
ATOM  23979  C2  G  A1138     255.074 165.146  13.029  1.00164.43      A16S
ATOM  23980  N2  G  A1138     254.512 165.748  11.971  1.00164.43      A16S
ATOM  23981  N1  G  A1138     255.664 165.974  13.948  1.00164.43      A16S
ATOM  23982  C6  G  A1138     256.292 165.557  15.116  1.00164.43      A16S
ATOM  23983  O6  G  A1138     256.792 166.392  15.877  1.00164.43      A16S
ATOM  23984  C5  G  A1138     256.254 164.146  15.252  1.00164.43      A16S
ATOM  23985  N7  G  A1138     256.752 163.327  16.257  1.00164.43      A16S
ATOM  23986  C8  G  A1138     256.450 162.118  15.870  1.00164.43      A16S
ATOM  23987  C2* G  A1138     253.860 160.797  13.649  1.00201.26      A16S
ATOM  23988  O2* G  A1138     253.425 159.468  13.854  1.00201.26      A16S
ATOM  23989  C3* G  A1138     253.801 161.231  12.185  1.00201.26      A16S
ATOM  23990  O3* G  A1138     252.687 160.657  11.503  1.00201.26      A16S
ATOM  23991  P   G  A1139     251.695 161.599  10.653  1.00107.15      A16S
ATOM  23992  O1P G  A1139     250.909 160.722   9.745  1.00108.23      A16S
ATOM  23993  O2P G  A1139     252.486 162.727  10.077  1.00108.23      A16S
ATOM  23994  O5* G  A1139     250.684 162.196  11.729  1.00107.15      A16S
ATOM  23995  C5* G  A1139     249.955 163.397  11.439  1.00107.15      A16S
ATOM  23996  C4* G  A1139     249.422 164.004  12.708  1.00107.15      A16S
ATOM  23997  O4* G  A1139     249.226 165.419  12.495  1.00107.15      A16S
ATOM  23998  C1* G  A1139     247.897 165.765  12.791  1.00107.15      A16S
ATOM  23999  N9  G  A1139     247.503 166.818  11.862  1.00108.23      A16S
ATOM  24000  C4  G  A1139     247.315 168.135  12.186  1.00108.23      A16S
ATOM  24001  N3  G  A1139     247.435 168.666  13.419  1.00108.23      A16S
ATOM  24002  C2  G  A1139     247.203 169.964  13.422  1.00108.23      A16S
ATOM  24003  N2  G  A1139     247.279 170.641  14.573  1.00108.23      A16S
ATOM  24004  N1  G  A1139     246.879 170.690  12.301  1.00108.23      A16S
ATOM  24005  C6  G  A1139     246.750 170.166  11.019  1.00108.23      A16S
ATOM  24006  O6  G  A1139     246.452 170.910  10.076  1.00108.23      A16S
ATOM  24007  C5  G  A1139     246.997 168.765  11.002  1.00108.23      A16S
ATOM  24008  N7  G  A1139     246.971 167.855   9.953  1.00108.23      A16S
ATOM  24009  C8  G  A1139     247.275 166.713  10.510  1.00108.23      A16S
ATOM  24010  C2* G  A1139     247.086 164.474  12.726  1.00107.15      A16S
ATOM  24011  O2* G  A1139     245.940 164.583  13.543  1.00107.15      A16S
ATOM  24012  C3* G  A1139     248.103 163.440  13.214  1.00107.15      A16S
ATOM  24013  O3* G  A1139     248.139 163.400  14.640  1.00107.15      A16S
ATOM  24014  P   C  A1140     248.588 162.050  15.397  1.00158.06      A16S
ATOM  24015  O1P C  A1140     248.977 161.042  14.375  1.00142.73      A16S
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ATOM  24016  O2P C   A1140     247.553 161.706  16.410  1.00142.73      A16S
ATOM  24017  O5* C   A1140     249.917 162.476  16.164  1.00158.06      A16S
ATOM  24018  C5* C   A1140     251.027 163.035  15.437  1.00158.06      A16S
ATOM  24019  C4* C   A1140     251.946 163.810  16.359  1.00158.06      A16S
ATOM  24020  O4* C   A1140     252.980 164.401  15.532  1.00158.06      A16S
ATOM  24021  C1* C   A1140     253.256 165.716  15.971  1.00158.06      A16S
ATOM  24022  N1   C   A1140     252.940 166.644  14.866  1.00142.73      A16S
ATOM  24023  C6   C   A1140     251.971 166.342  13.949  1.00142.73      A16S
ATOM  24024  C2   C   A1140     253.657 167.840  14.760  1.00142.73      A16S
ATOM  24025  O2   C   A1140     254.525 168.098  15.610  1.00142.73      A16S
ATOM  24026  N3   C   A1140     253.391 168.684  13.735  1.00142.73      A16S
ATOM  24027  C4   C   A1140     252.452 168.372  12.840  1.00142.73      A16S
ATOM  24028  N4   C   A1140     252.231 169.231  11.838  1.00142.73      A16S
ATOM  24029  C5   C   A1140     251.699 167.168  12.930  1.00142.73      A16S
ATOM  24030  C2* C   A1140     252.464 165.961  17.256  1.00158.06      A16S
ATOM  24031  O2* C   A1140     253.272 165.656  18.377  1.00158.06      A16S
ATOM  24032  C3* C   A1140     251.309 164.982  17.098  1.00158.06      A16S
ATOM  24033  O3* C   A1140     250.808 164.582  18.371  1.00158.06      A16S
ATOM  24034  P    C   A1141     249.715 165.491  19.123  1.00157.36      A16S
ATOM  24035  O1P C   A1141     249.480 164.852  20.446  1.00150.12      A16S
ATOM  24036  O2P C   A1141     248.568 165.710  18.201  1.00150.12      A16S
ATOM  24037  O5* C   A1141     250.445 166.895  19.343  1.00157.36      A16S
ATOM  24038  C5* C   A1141     251.211 167.167  20.540  1.00157.36      A16S
ATOM  24039  C4* C   A1141     251.502 168.651  20.661  1.00157.36      A16S
ATOM  24040  O4* C   A1141     252.351 169.071  19.562  1.00157.36      A16S
ATOM  24041  C1* C   A1141     252.010 170.392  19.172  1.00157.36      A16S
ATOM  24042  N1   C   A1141     251.584 170.377  17.762  1.00150.12      A16S
ATOM  24043  C6   C   A1141     251.085 169.239  17.188  1.00150.12      A16S
ATOM  24044  C2   C   A1141     251.689 171.555  17.015  1.00150.12      A16S
ATOM  24045  O2   C   A1141     252.151 172.572  17.555  1.00150.12      A16S
ATOM  24046  N3   C   A1141     251.284 171.557  15.726  1.00150.12      A16S
ATOM  24047  C4   C   A1141     250.792 170.442  15.178  1.00150.12      A16S
ATOM  24048  N4   C   A1141     250.399 170.492  13.900  1.00150.12      A16S
ATOM  24049  C5   C   A1141     250.681 169.228  15.913  1.00150.12      A16S
ATOM  24050  C2* C   A1141     250.899 170.889  20.096  1.00157.36      A16S
ATOM  24051  O2* C   A1141     251.448 171.678  21.131  1.00157.36      A16S
ATOM  24052  C3* C   A1141     250.298 169.579  20.590  1.00157.36      A16S
ATOM  24053  O3* C   A1141     249.668 169.744  21.849  1.00157.36      A16S
ATOM  24054  P    G   A1142     248.143 170.238  21.908  1.00102.74      A16S
ATOM  24055  O1P G   A1142     247.775 170.320  23.346  1.00171.65      A16S
ATOM  24056  O2P G   A1142     247.338 169.389  20.995  1.00171.65      A16S
ATOM  24057  O5* G   A1142     248.183 171.716  21.310  1.00102.74      A16S
ATOM  24058  C5* G   A1142     248.607 172.814  22.129  1.00102.74      A16S
ATOM  24059  C4* G   A1142     248.459 174.126  21.396  1.00102.74      A16S
ATOM  24060  O4* G   A1142     249.337 174.151  20.242  1.00102.74      A16S
ATOM  24061  C1* G   A1142     248.785 175.000  19.252  1.00102.74      A16S
ATOM  24062  N9   G   A1142     248.661 174.261  17.998  1.00171.65      A16S
ATOM  24063  C4   G   A1142     248.358 174.799  16.767  1.00171.65      A16S
ATOM  24064  N3   G   A1142     248.132 176.102  16.503  1.00171.65      A16S
ATOM  24065  C2   G   A1142     247.854 176.307  15.228  1.00171.65      A16S
ATOM  24066  N2   G   A1142     247.596 177.543  14.791  1.00171.65      A16S
ATOM  24067  N1   G   A1142     247.806 175.318  14.285  1.00171.65      A16S
ATOM  24068  C6   G   A1142     248.037 173.971  14.529  1.00171.65      A16S
ATOM  24069  O6   G   A1142     247.972 173.161  13.598  1.00171.65      A16S
ATOM  24070  C5   G   A1142     248.334 173.731  15.898  1.00171.65      A16S
ATOM  24071  N7   G   A1142     248.621 172.547  16.564  1.00171.65      A16S
ATOM  24072  C8   G   A1142     248.809 172.909  17.804  1.00171.65      A16S
ATOM  24073  C2* G   A1142     247.442 175.521  19.772  1.00102.74      A16S
ATOM  24074  O2* G   A1142     247.626 176.826  20.286  1.00102.74      A16S
ATOM  24075  C3* G   A1142     247.090 174.494  20.845  1.00102.74      A16S
ATOM  24076  O3* G   A1142     246.252 175.073  21.847  1.00102.74      A16S
ATOM  24077  P    G   A1143     244.668 174.764  21.853  1.00108.72      A16S
ATOM  24078  O1P G   A1143     244.078 175.489  23.005  1.00157.09      A16S
ATOM  24079  O2P G   A1143     244.473 173.293  21.734  1.00157.09      A16S
ATOM  24080  O5* G   A1143     244.109 175.448  20.525  1.00108.72      A16S
ATOM  24081  C5* G   A1143     244.307 176.854  20.265  1.00108.72      A16S
ATOM  24082  C4* G   A1143     244.260 177.117  18.775  1.00108.72      A16S
ATOM  24083  O4* G   A1143     245.280 176.307  18.129  1.00108.72      A16S
ATOM  24084  C1* G   A1143     244.789 175.783  16.906  1.00108.72      A16S
ATOM  24085  N9   G   A1143     244.731 174.323  17.037  1.00157.09      A16S
ATOM  24086  C4   G   A1143     244.611 173.397  16.019  1.00157.09      A16S
ATOM  24087  N3   G   A1143     244.530 173.669  14.697  1.00157.09      A16S
ATOM  24088  C2   G   A1143     244.417 172.567  13.970  1.00157.09      A16S
ATOM  24089  N2   G   A1143     244.326 172.654  12.632  1.00157.09      A16S
ATOM  24090  N1   G   A1143     244.387 171.297  14.501  1.00157.09      A16S
ATOM  24091  C6   G   A1143     244.470 170.993  15.857  1.00157.09      A16S
ATOM  24092  O6   G   A1143     244.438 169.812  16.229  1.00157.09      A16S
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ATOM  24093  C5  G  A1143     244.589 172.165  16.647  1.00157.09      A16S
ATOM  24094  N7  G  A1143     244.695 172.311  18.023  1.00157.09      A16S
ATOM  24095  C8  G  A1143     244.778 173.600  18.208  1.00157.09      A16S
ATOM  24096  C2* G  A1143     243.420 176.425  16.660  1.00108.72      A16S
ATOM  24097  O2* G  A1143     243.564 177.594  15.870  1.00108.72      A16S
ATOM  24098  C3* G  A1143     242.965 176.722  18.084  1.00108.72      A16S
ATOM  24099  O3* G  A1143     241.984 177.750  18.145  1.00108.72      A16S
ATOM  24100  P   G  A1144     240.424 177.358  18.129  1.00141.10      A16S
ATOM  24101  O1P G  A1144     239.628 178.589  18.384  1.00124.93      A16S
ATOM  24102  O2P G  A1144     240.234 176.164  18.998  1.00124.93      A16S
ATOM  24103  O5* G  A1144     240.161 176.920  16.622  1.00141.10      A16S
ATOM  24104  C5* G  A1144     240.088 177.899  15.571  1.00141.10      A16S
ATOM  24105  C4* G  A1144     239.734 177.233  14.265  1.00141.10      A16S
ATOM  24106  O4* G  A1144     240.844 176.405  13.828  1.00141.10      A16S
ATOM  24107  C1* G  A1144     240.351 175.212  13.237  1.00141.10      A16S
ATOM  24108  N9  G  A1144     240.663 174.099  14.131  1.00124.93      A16S
ATOM  24109  C4  G  A1144     240.880 172.794  13.766  1.00124.93      A16S
ATOM  24110  N3  G  A1144     240.897 172.317  12.503  1.00124.93      A16S
ATOM  24111  C2  G  A1144     241.093 171.012  12.471  1.00124.93      A16S
ATOM  24112  N2  G  A1144     241.133 170.376  11.292  1.00124.93      A16S
ATOM  24113  N1  G  A1144     241.262 170.235  13.594  1.00124.93      A16S
ATOM  24114  C6  G  A1144     241.246 170.707  14.906  1.00124.93      A16S
ATOM  24115  O6  G  A1144     241.395 169.920  15.850  1.00124.93      A16S
ATOM  24116  C5  G  A1144     241.041 172.104  14.951  1.00124.93      A16S
ATOM  24117  N7  G  A1144     240.960 172.963  16.036  1.00124.93      A16S
ATOM  24118  C8  G  A1144     240.745 174.134  15.504  1.00124.93      A16S
ATOM  24119  C2* G  A1144     238.834 175.354  13.146  1.00141.10      A16S
ATOM  24120  O2* G  A1144     238.457 175.925  11.907  1.00141.10      A16S
ATOM  24121  C3* G  A1144     238.562 176.269  14.325  1.00141.10      A16S
ATOM  24122  O3* G  A1144     237.296 176.888  14.269  1.00141.10      A16S
ATOM  24123  P   C  A1145     236.118 176.346  15.220  1.00137.58      A16S
ATOM  24124  O1P C  A1145     235.926 177.342  16.305  1.00151.42      A16S
ATOM  24125  O2P C  A1145     236.394 174.926  15.578  1.00151.42      A16S
ATOM  24126  O5* C  A1145     234.846 176.408  14.267  1.00137.58      A16S
ATOM  24127  C5* C  A1145     234.083 175.230  13.963  1.00137.58      A16S
ATOM  24128  C4* C  A1145     234.662 174.526  12.755  1.00137.58      A16S
ATOM  24129  O4* C  A1145     235.877 173.824  13.125  1.00137.58      A16S
ATOM  24130  C1* C  A1145     235.916 172.556  12.493  1.00137.58      A16S
ATOM  24131  N1  C  A1145     235.968 171.543  13.566  1.00151.42      A16S
ATOM  24132  C6  C  A1145     234.833 171.138  14.212  1.00151.42      A16S
ATOM  24133  C2  C  A1145     237.214 171.027  13.945  1.00151.42      A16S
ATOM  24134  O2  C  A1145     238.226 171.374  13.321  1.00151.42      A16S
ATOM  24135  N3  C  A1145     237.285 170.163  14.983  1.00151.42      A16S
ATOM  24136  C4  C  A1145     236.175 169.805  15.628  1.00151.42      A16S
ATOM  24137  N4  C  A1145     236.295 168.978  16.666  1.00151.42      A16S
ATOM  24138  C5  C  A1145     234.891 170.285  15.242  1.00151.42      A16S
ATOM  24139  C2* C  A1145     234.723 172.475  11.539  1.00137.58      A16S
ATOM  24140  O2* C  A1145     235.151 172.899  10.267  1.00137.58      A16S
ATOM  24141  C3* C  A1145     233.749 173.463  12.177  1.00137.58      A16S
ATOM  24142  O3* C  A1145     232.867 174.128  11.278  1.00137.58      A16S
ATOM  24143  P   A  A1146     232.097 173.306  10.142  1.00143.85      A16S
ATOM  24144  O1P A  A1146     230.933 174.155   9.767  1.00 76.98      A16S
ATOM  24145  O2P A  A1146     231.870 171.900  10.607  1.00 76.98      A16S
ATOM  24146  O5* A  A1146     233.133 173.322   8.928  1.00143.85      A16S
ATOM  24147  C5* A  A1146     233.327 174.523   8.151  1.00143.85      A16S
ATOM  24148  C4* A  A1146     234.170 174.248   6.924  1.00143.85      A16S
ATOM  24149  O4* A  A1146     235.581 174.384   7.217  1.00143.85      A16S
ATOM  24150  C1* A  A1146     236.325 173.536   6.357  1.00143.85      A16S
ATOM  24151  N9  A  A1146     237.111 172.616   7.174  1.00 76.98      A16S
ATOM  24152  C4  A  A1146     238.061 171.733   6.719  1.00 76.98      A16S
ATOM  24153  N3  A  A1146     238.466 171.552   5.450  1.00 76.98      A16S
ATOM  24154  C2  A  A1146     239.400 170.607   5.389  1.00 76.98      A16S
ATOM  24155  N1  A  A1146     239.932 169.874   6.377  1.00 76.98      A16S
ATOM  24156  C6  A  A1146     239.496 170.076   7.639  1.00 76.98      A16S
ATOM  24157  N6  A  A1146     240.011 169.332   8.624  1.00 76.98      A16S
ATOM  24158  C5  A  A1146     238.514 171.058   7.838  1.00 76.98      A16S
ATOM  24159  N7  A  A1146     237.872 171.514   8.978  1.00 76.98      A16S
ATOM  24160  C8  A  A1146     237.055 172.436   8.531  1.00 76.98      A16S
ATOM  24161  C2* A  A1146     235.336 172.788   5.464  1.00143.85      A16S
ATOM  24162  O2* A  A1146     235.255 173.432   4.209  1.00143.85      A16S
ATOM  24163  C3* A  A1146     234.049 172.880   6.276  1.00143.85      A16S
ATOM  24164  O3* A  A1146     232.901 172.762   5.457  1.00143.85      A16S
ATOM  24165  P   C  A1147     232.169 171.338   5.326  1.00112.17      A16S
ATOM  24166  O1P C  A1147     231.858 170.822   6.690  1.00 64.69      A16S
ATOM  24167  O2P C  A1147     231.070 171.527   4.342  1.00 64.69      A16S
ATOM  24168  O5* C  A1147     233.289 170.373   4.722  1.00112.17      A16S
ATOM  24169  C5* C  A1147     233.793 170.550   3.379  1.00112.17      A16S
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ATOM  24170  C4* C   A1147     234.883 169.537   3.083  1.00112.17      A16S
ATOM  24171  O4* C   A1147     236.042 169.807   3.911  1.00112.17      A16S
ATOM  24172  C1* C   A1147     236.677 168.588   4.261  1.00112.17      A16S
ATOM  24173  N1   C   A1147     236.684 168.459   5.732  1.00 64.69      A16S
ATOM  24174  C6   C   A1147     235.774 169.132   6.501  1.00 64.69      A16S
ATOM  24175  C2   C   A1147     237.647 167.626   6.340  1.00 64.69      A16S
ATOM  24176  O2   C   A1147     238.453 167.009   5.625  1.00 64.69      A16S
ATOM  24177  N3   C   A1147     237.667 167.515   7.690  1.00 64.69      A16S
ATOM  24178  C4   C   A1147     236.777 168.186   8.427  1.00 64.69      A16S
ATOM  24179  N4   C   A1147     236.837 168.056   9.752  1.00 64.69      A16S
ATOM  24180  C5   C   A1147     235.784 169.025   7.837  1.00 64.69      A16S
ATOM  24181  C2* C   A1147     235.924 167.451   3.574  1.00112.17      A16S
ATOM  24182  O2* C   A1147     236.607 167.111   2.383  1.00112.17      A16S
ATOM  24183  C3* C   A1147     234.548 168.077   3.356  1.00112.17      A16S
ATOM  24184  O3* C   A1147     233.838 167.479   2.273  1.00112.17      A16S
ATOM  24185  P    U   A1148     232.909 166.189   2.539  1.00 77.39      A16S
ATOM  24186  O1P U   A1148     231.854 166.540   3.528  1.00 87.69      A16S
ATOM  24187  O2P U   A1148     232.516 165.683   1.196  1.00 87.69      A16S
ATOM  24188  O5* U   A1148     233.901 165.139   3.220  1.00 77.39      A16S
ATOM  24189  C5* U   A1148     234.858 164.411   2.426  1.00 77.39      A16S
ATOM  24190  C4* U   A1148     235.488 163.303   3.233  1.00 77.39      A16S
ATOM  24191  O4* U   A1148     236.401 163.852   4.214  1.00 77.39      A16S
ATOM  24192  C1* U   A1148     236.458 162.991   5.342  1.00 77.39      A16S
ATOM  24193  N1   U   A1148     236.085 163.735   6.555  1.00 87.69      A16S
ATOM  24194  C6   U   A1148     235.225 164.806   6.508  1.00 87.69      A16S
ATOM  24195  C2   U   A1148     236.613 163.299   7.762  1.00 87.69      A16S
ATOM  24196  O2   U   A1148     237.389 162.363   7.852  1.00 87.69      A16S
ATOM  24197  N3   U   A1148     236.193 163.995   8.861  1.00 87.69      A16S
ATOM  24198  C4   U   A1148     235.319 165.057   8.883  1.00 87.69      A16S
ATOM  24199  O4   U   A1148     234.989 165.541   9.965  1.00 87.69      A16S
ATOM  24200  C5   U   A1148     234.833 165.461   7.600  1.00 87.69      A16S
ATOM  24201  C2* U   A1148     235.484 161.839   5.103  1.00 77.39      A16S
ATOM  24202  O2* U   A1148     236.177 160.686   4.666  1.00 77.39      A16S
ATOM  24203  C3* U   A1148     234.554 162.431   4.054  1.00 77.39      A16S
ATOM  24204  O3* U   A1148     233.923 161.412   3.304  1.00 77.39      A16S
ATOM  24205  P    C   A1149     232.466 160.900   3.744  1.00 67.66      A16S
ATOM  24206  O1P C   A1149     232.089 159.838   2.777  1.00 81.82      A16S
ATOM  24207  O2P C   A1149     231.591 162.089   3.905  1.00 81.82      A16S
ATOM  24208  O5* C   A1149     232.679 160.242   5.180  1.00 67.66      A16S
ATOM  24209  C5* C   A1149     233.582 159.143   5.359  1.00 67.66      A16S
ATOM  24210  C4* C   A1149     233.923 158.980   6.819  1.00 67.66      A16S
ATOM  24211  O4* C   A1149     234.477 160.225   7.309  1.00 67.66      A16S
ATOM  24212  C1* C   A1149     234.023 160.473   8.631  1.00 67.66      A16S
ATOM  24213  N1   C   A1149     233.226 161.720   8.617  1.00 81.82      A16S
ATOM  24214  C6   C   A1149     232.683 162.185   7.449  1.00 81.82      A16S
ATOM  24215  C2   C   A1149     233.028 162.422   9.812  1.00 81.82      A16S
ATOM  24216  O2   C   A1149     233.524 161.982  10.858  1.00 81.82      A16S
ATOM  24217  N3   C   A1149     232.296 163.562   9.792  1.00 81.82      A16S
ATOM  24218  C4   C   A1149     231.770 164.001   8.644  1.00 81.82      A16S
ATOM  24219  N4   C   A1149     231.048 165.124   8.664  1.00 81.82      A16S
ATOM  24220  C5   C   A1149     231.958 163.308   7.419  1.00 81.82      A16S
ATOM  24221  C2* C   A1149     233.220 159.250   9.076  1.00 67.66      A16S
ATOM  24222  O2* C   A1149     234.061 158.347   9.765  1.00 67.66      A16S
ATOM  24223  C3* C   A1149     232.750 158.690   7.741  1.00 67.66      A16S
ATOM  24224  O3* C   A1149     232.479 157.299   7.825  1.00 67.66      A16S
ATOM  24225  P    U   A1150     231.005 156.804   8.215  1.00 87.69      A16S
ATOM  24226  O1P U   A1150     230.972 155.336   8.046  1.00 62.33      A16S
ATOM  24227  O2P U   A1150     230.019 157.653   7.496  1.00 62.33      A16S
ATOM  24228  O5* U   A1150     230.893 157.113   9.769  1.00 87.69      A16S
ATOM  24229  C5* U   A1150     231.697 156.404  10.728  1.00 87.69      A16S
ATOM  24230  C4* U   A1150     231.411 156.934  12.106  1.00 87.69      A16S
ATOM  24231  O4* U   A1150     231.764 158.337  12.129  1.00 87.69      A16S
ATOM  24232  C1* U   A1150     230.793 159.066  12.852  1.00 87.69      A16S
ATOM  24233  N1   U   A1150     230.209 160.073  11.954  1.00 62.33      A16S
ATOM  24234  C6   U   A1150     230.362 160.000  10.598  1.00 62.33      A16S
ATOM  24235  C2   U   A1150     229.511 161.111  12.529  1.00 62.33      A16S
ATOM  24236  O2   U   A1150     229.329 161.195  13.729  1.00 62.33      A16S
ATOM  24237  N3   U   A1150     229.030 162.048  11.649  1.00 62.33      A16S
ATOM  24238  C4   U   A1150     229.167 162.045  10.285  1.00 62.33      A16S
ATOM  24239  O4   U   A1150     228.688 162.966   9.624  1.00 62.33      A16S
ATOM  24240  C5   U   A1150     229.881 160.926   9.768  1.00 62.33      A16S
ATOM  24241  C2* U   A1150     229.782 158.075  13.425  1.00 87.69      A16S
ATOM  24242  O2* U   A1150     230.144 157.767  14.752  1.00 87.69      A16S
ATOM  24243  C3* U   A1150     229.938 156.899  12.473  1.00 87.69      A16S
ATOM  24244  O3* U   A1150     229.595 155.663  13.075  1.00 87.69      A16S
ATOM  24245  P    A   A1151     228.175 154.991  12.743  1.00 72.59      A16S
ATOM  24246  O1P A   A1151     228.048 153.772  13.606  1.00 85.99      A16S
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ATOM  24247  O2P A   A1151     228.051 154.869  11.266  1.00 85.99      A16S
ATOM  24248  O5* A   A1151     227.121 156.095  13.206  1.00 72.59      A16S
ATOM  24249  C5* A   A1151     227.030 156.483  14.584  1.00 72.59      A16S
ATOM  24250  C4* A   A1151     225.873 157.426  14.797  1.00 72.59      A16S
ATOM  24251  O4* A   A1151     226.171 158.726  14.221  1.00 72.59      A16S
ATOM  24252  C1* A   A1151     225.025 159.198  13.556  1.00 72.59      A16S
ATOM  24253  N9  A   A1151     225.424 160.178  12.549  1.00 85.99      A16S
ATOM  24254  C4  A   A1151     225.133 161.521  12.601  1.00 85.99      A16S
ATOM  24255  N3  A   A1151     224.442 162.171  13.555  1.00 85.99      A16S
ATOM  24256  C2  A   A1151     224.361 163.471  13.274  1.00 85.99      A16S
ATOM  24257  N1  A   A1151     224.849 164.142  12.224  1.00 85.99      A16S
ATOM  24258  C6  A   A1151     225.532 163.458  11.282  1.00 85.99      A16S
ATOM  24259  N6  A   A1151     226.010 164.124  10.230  1.00 85.99      A16S
ATOM  24260  C5  A   A1151     225.694 162.072  11.466  1.00 85.99      A16S
ATOM  24261  N7  A   A1151     226.326 161.097  10.710  1.00 85.99      A16S
ATOM  24262  C8  A   A1151     226.139 159.995  11.395  1.00 85.99      A16S
ATOM  24263  C2* A   A1151     224.319 157.943  13.056  1.00 72.59      A16S
ATOM  24264  O2* A   A1151     222.966 158.224  12.777  1.00 72.59      A16S
ATOM  24265  C3* A   A1151     224.511 157.008  14.249  1.00 72.59      A16S
ATOM  24266  O3* A   A1151     223.527 157.296  15.234  1.00 72.59      A16S
ATOM  24267  P   A   A1152     222.100 156.562  15.186  1.00 68.32      A16S
ATOM  24268  O1P A   A1152     221.802 156.159  16.585  1.00 93.97      A16S
ATOM  24269  O2P A   A1152     222.128 155.527  14.122  1.00 93.97      A16S
ATOM  24270  O5* A   A1152     221.089 157.714  14.723  1.00 68.32      A16S
ATOM  24271  C5* A   A1152     220.209 158.346  15.674  1.00 68.32      A16S
ATOM  24272  C4* A   A1152     219.743 159.709  15.189  1.00 68.32      A16S
ATOM  24273  O4* A   A1152     220.876 160.504  14.748  1.00 68.32      A16S
ATOM  24274  C1* A   A1152     220.402 161.553  13.924  1.00 68.32      A16S
ATOM  24275  N9  A   A1152     221.255 161.686  12.748  1.00 93.97      A16S
ATOM  24276  C4  A   A1152     221.449 162.852  12.053  1.00 93.97      A16S
ATOM  24277  N3  A   A1152     220.932 164.058  12.332  1.00 93.97      A16S
ATOM  24278  C2  A   A1152     221.328 164.956  11.437  1.00 93.97      A16S
ATOM  24279  N1  A   A1152     222.117 164.797  10.373  1.00 93.97      A16S
ATOM  24280  C6  A   A1152     222.614 163.571  10.116  1.00 93.97      A16S
ATOM  24281  N6  A   A1152     223.388 163.411   9.041  1.00 93.97      A16S
ATOM  24282  C5  A   A1152     222.277 162.531  11.000  1.00 93.97      A16S
ATOM  24283  N7  A   A1152     222.616 161.186  11.037  1.00 93.97      A16S
ATOM  24284  C8  A   A1152     221.988 160.734  12.094  1.00 93.97      A16S
ATOM  24285  C2* A   A1152     218.945 161.260  13.569  1.00 68.32      A16S
ATOM  24286  O2* A   A1152     218.126 162.144  14.303  1.00 68.32      A16S
ATOM  24287  C3* A   A1152     218.783 159.804  14.009  1.00 68.32      A16S
ATOM  24288  O3* A   A1152     217.432 159.569  14.401  1.00 68.32      A16S
ATOM  24289  P   C   A1153     216.287 159.412  13.278  1.00 83.34      A16S
ATOM  24290  O1P C   A1153     215.040 159.043  13.985  1.00 86.69      A16S
ATOM  24291  O2P C   A1153     216.794 158.545  12.191  1.00 86.69      A16S
ATOM  24292  O5* C   A1153     216.110 160.873  12.669  1.00 83.34      A16S
ATOM  24293  C5* C   A1153     215.503 161.935  13.427  1.00 83.34      A16S
ATOM  24294  C4* C   A1153     215.607 163.236  12.666  1.00 83.34      A16S
ATOM  24295  O4* C   A1153     217.005 163.532  12.413  1.00 83.34      A16S
ATOM  24296  C1* C   A1153     217.136 164.193  11.163  1.00 83.34      A16S
ATOM  24297  N1  C   A1153     218.122 163.482  10.328  1.00 86.69      A16S
ATOM  24298  C6  C   A1153     218.352 162.142  10.477  1.00 86.69      A16S
ATOM  24299  C2  C   A1153     218.827 164.213   9.367  1.00 86.69      A16S
ATOM  24300  O2  C   A1153     218.597 165.422   9.248  1.00 86.69      A16S
ATOM  24301  N3  C   A1153     219.739 163.586   8.592  1.00 86.69      A16S
ATOM  24302  C4  C   A1153     219.961 162.283   8.748  1.00 86.69      A16S
ATOM  24303  N4  C   A1153     220.883 161.710   7.967  1.00 86.69      A16S
ATOM  24304  C5  C   A1153     219.253 161.508   9.716  1.00 86.69      A16S
ATOM  24305  C2* C   A1153     215.753 164.297  10.519  1.00 83.34      A16S
ATOM  24306  O2* C   A1153     215.260 165.613  10.653  1.00 83.34      A16S
ATOM  24307  C3* C   A1153     214.968 163.232  11.285  1.00 83.34      A16S
ATOM  24308  O3* C   A1153     213.575 163.520  11.352  1.00 83.34      A16S
ATOM  24309  P   G   A1154     212.593 162.975  10.200  1.00117.10      A16S
ATOM  24310  O1P G   A1154     211.205 163.295  10.639  1.00110.06      A16S
ATOM  24311  O2P G   A1154     212.961 161.565   9.901  1.00110.06      A16S
ATOM  24312  O5* G   A1154     212.960 163.874   8.934  1.00117.10      A16S
ATOM  24313  C5* G   A1154     212.681 165.279   8.953  1.00117.10      A16S
ATOM  24314  C4* G   A1154     213.431 166.000   7.860  1.00117.10      A16S
ATOM  24315  O4* G   A1154     214.861 165.877   8.058  1.00117.10      A16S
ATOM  24316  C1* G   A1154     215.514 166.072   6.816  1.00117.10      A16S
ATOM  24317  N9  G   A1154     216.438 164.973   6.556  1.00110.06      A16S
ATOM  24318  C4  G   A1154     217.373 164.951   5.551  1.00110.06      A16S
ATOM  24319  N3  G   A1154     217.621 165.955   4.683  1.00110.06      A16S
ATOM  24320  C2  G   A1154     218.546 165.631   3.802  1.00110.06      A16S
ATOM  24321  N2  G   A1154     218.913 166.519   2.871  1.00110.06      A16S
ATOM  24322  N1  G   A1154     219.175 164.412   3.769  1.00110.06      A16S
ATOM  24323  C6  G   A1154     218.934 163.363   4.650  1.00110.06      A16S
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ATOM  24324  O6  G   A1154     219.545 162.298   4.518  1.00110.06      A16S
ATOM  24325  C5  G   A1154     217.951 163.706   5.613  1.00110.06      A16S
ATOM  24326  N7  G   A1154     217.422 162.971   6.667  1.00110.06      A16S
ATOM  24327  C8  G   A1154     216.534 163.765   7.202  1.00110.06      A16S
ATOM  24328  C2* G   A1154     214.441 166.157   5.727  1.00117.10      A16S
ATOM  24329  O2* G   A1154     214.247 167.510   5.371  1.00117.10      A16S
ATOM  24330  C3* G   A1154     213.229 165.551   6.424  1.00117.10      A16S
ATOM  24331  O3* G   A1154     212.024 166.053   5.863  1.00117.10      A16S
ATOM  24332  P   G   A1155     211.380 165.328   4.577  1.00 90.06      A16S
ATOM  24333  O1P G   A1155     209.953 165.738   4.503  1.00 98.77      A16S
ATOM  24334  O2P G   A1155     211.723 163.881   4.625  1.00 98.77      A16S
ATOM  24335  O5* G   A1155     212.133 165.990   3.343  1.00 90.06      A16S
ATOM  24336  C5* G   A1155     212.180 167.410   3.206  1.00 90.06      A16S
ATOM  24337  C4* G   A1155     213.269 167.807   2.246  1.00 90.06      A16S
ATOM  24338  O4* G   A1155     214.554 167.329   2.719  1.00 90.06      A16S
ATOM  24339  C1* G   A1155     215.395 167.059   1.609  1.00 90.06      A16S
ATOM  24340  N9  G   A1155     215.937 165.704   1.727  1.00 98.77      A16S
ATOM  24341  C4  G   A1155     216.794 165.090   0.840  1.00 98.77      A16S
ATOM  24342  N3  G   A1155     217.254 165.620  -0.314  1.00 98.77      A16S
ATOM  24343  C2  G   A1155     218.061 164.793  -0.945  1.00 98.77      A16S
ATOM  24344  N2  G   A1155     218.597 165.155  -2.116  1.00 98.77      A16S
ATOM  24345  N1  G   A1155     218.400 163.548  -0.478  1.00 98.77      A16S
ATOM  24346  C6  G   A1155     217.940 162.985   0.708  1.00 98.77      A16S
ATOM  24347  O6  G   A1155     218.311 161.854   1.041  1.00 98.77      A16S
ATOM  24348  C5  G   A1155     217.065 163.855   1.389  1.00 98.77      A16S
ATOM  24349  N7  G   A1155     216.381 163.684   2.584  1.00 98.77      A16S
ATOM  24350  C8  G   A1155     215.720 164.800   2.741  1.00 98.77      A16S
ATOM  24351  C2* G   A1155     214.589 167.321   0.333  1.00 90.06      A16S
ATOM  24352  O2* G   A1155     214.916 168.606  -0.162  1.00 90.06      A16S
ATOM  24353  C3* G   A1155     213.155 167.245   0.844  1.00 90.06      A16S
ATOM  24354  O3* G   A1155     212.287 168.045   0.066  1.00 90.06      A16S
ATOM  24355  P   G   A1156     211.186 167.340  -0.862  1.00111.09      A16S
ATOM  24356  O1P G   A1156     210.401 168.424  -1.525  1.00 80.74      A16S
ATOM  24357  O2P G   A1156     210.483 166.324  -0.024  1.00 80.74      A16S
ATOM  24358  O5* G   A1156     212.051 166.588  -1.976  1.00111.09      A16S
ATOM  24359  C5* G   A1156     212.750 167.334  -3.001  1.00111.09      A16S
ATOM  24360  C4* G   A1156     213.636 166.422  -3.825  1.00111.09      A16S
ATOM  24361  O4* G   A1156     214.736 165.923  -3.019  1.00111.09      A16S
ATOM  24362  C1* G   A1156     215.078 164.613  -3.437  1.00111.09      A16S
ATOM  24363  N9  G   A1156     214.893 163.699  -2.312  1.00 80.74      A16S
ATOM  24364  C4  G   A1156     215.645 162.584  -2.038  1.00 80.74      A16S
ATOM  24365  N3  G   A1156     216.700 162.142  -2.759  1.00 80.74      A16S
ATOM  24366  C2  G   A1156     217.211 161.024  -2.258  1.00 80.74      A16S
ATOM  24367  N2  G   A1156     218.258 160.434  -2.864  1.00 80.74      A16S
ATOM  24368  N1  G   A1156     216.730 160.400  -1.130  1.00 80.74      A16S
ATOM  24369  C6  G   A1156     215.649 160.841  -0.372  1.00 80.74      A16S
ATOM  24370  O6  G   A1156     215.304 160.207   0.628  1.00 80.74      A16S
ATOM  24371  C5  G   A1156     215.084 162.032  -0.907  1.00 80.74      A16S
ATOM  24372  N7  G   A1156     214.006 162.787  -0.473  1.00 80.74      A16S
ATOM  24373  C8  G   A1156     213.932 163.765  -1.332  1.00 80.74      A16S
ATOM  24374  C2* G   A1156     214.174 164.258  -4.619  1.00111.09      A16S
ATOM  24375  O2* G   A1156     214.835 164.560  -5.831  1.00111.09      A16S
ATOM  24376  C3* G   A1156     212.984 165.171  -4.378  1.00111.09      A16S
ATOM  24377  O3* G   A1156     212.244 165.419  -5.556  1.00111.09      A16S
ATOM  24378  P   A   A1157     210.701 164.978  -5.613  1.00 89.89      A16S
ATOM  24379  O1P A   A1157     209.927 166.212  -5.918  1.00 95.35      A16S
ATOM  24380  O2P A   A1157     210.389 164.191  -4.384  1.00 95.35      A16S
ATOM  24381  O5* A   A1157     210.604 163.989  -6.861  1.00 89.89      A16S
ATOM  24382  C5* A   A1157     209.407 163.213  -7.114  1.00 89.89      A16S
ATOM  24383  C4* A   A1157     209.774 161.801  -7.507  1.00 89.89      A16S
ATOM  24384  O4* A   A1157     210.592 161.857  -8.702  1.00 89.89      A16S
ATOM  24385  C1* A   A1157     211.832 161.228  -8.458  1.00 89.89      A16S
ATOM  24386  N9  A   A1157     212.865 161.957  -9.190  1.00 95.35      A16S
ATOM  24387  C4  A   A1157     213.879 161.388  -9.917  1.00 95.35      A16S
ATOM  24388  N3  A   A1157     214.116 160.079 -10.093  1.00 95.35      A16S
ATOM  24389  C2  A   A1157     215.191 159.898 -10.852  1.00 95.35      A16S
ATOM  24390  N1  A   A1157     215.994 160.810 -11.414  1.00 95.35      A16S
ATOM  24391  C6  A   A1157     215.722 162.118 -11.217  1.00 95.35      A16S
ATOM  24392  N6  A   A1157     216.521 163.029 -11.773  1.00 95.35      A16S
ATOM  24393  C5  A   A1157     214.609 162.440 -10.431  1.00 95.35      A16S
ATOM  24394  N7  A   A1157     214.067 163.653 -10.040  1.00 95.35      A16S
ATOM  24395  C8  A   A1157     213.036 163.313  -9.308  1.00 95.35      A16S
ATOM  24396  C2* A   A1157     212.017 161.215  -6.940  1.00 89.89      A16S
ATOM  24397  O2* A   A1157     212.894 160.184  -6.524  1.00 89.89      A16S
ATOM  24398  C3* A   A1157     210.580 161.027  -6.463  1.00 89.89      A16S
ATOM  24399  O3* A   A1157     210.273 159.632  -6.537  1.00 89.89      A16S
ATOM  24400  P   C   A1158     208.869 159.077  -5.983  1.00 96.83      A16S
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ATOM  24401  O1P C   A1158     208.528 159.849  -4.761  1.00101.47      A16S
ATOM  24402  O2P C   A1158     208.974 157.596  -5.906  1.00101.47      A16S
ATOM  24403  O5* C   A1158     207.829 159.461  -7.135  1.00 96.83      A16S
ATOM  24404  C5* C   A1158     206.410 159.508  -6.868  1.00 96.83      A16S
ATOM  24405  C4* C   A1158     205.677 160.290  -7.944  1.00 96.83      A16S
ATOM  24406  O4* C   A1158     206.232 161.621  -8.048  1.00 96.83      A16S
ATOM  24407  C1* C   A1158     205.966 162.132  -9.338  1.00 96.83      A16S
ATOM  24408  N1  C   A1158     207.133 162.914  -9.802  1.00101.47      A16S
ATOM  24409  C6  C   A1158     207.117 164.276  -9.694  1.00101.47      A16S
ATOM  24410  C2  C   A1158     208.252 162.266 -10.337  1.00101.47      A16S
ATOM  24411  O2  C   A1158     208.247 161.038 -10.434  1.00101.47      A16S
ATOM  24412  N3  C   A1158     209.313 163.002 -10.734  1.00101.47      A16S
ATOM  24413  C4  C   A1158     209.288 164.329 -10.613  1.00101.47      A16S
ATOM  24414  N4  C   A1158     210.359 165.015 -11.012  1.00101.47      A16S
ATOM  24415  C5  C   A1158     208.163 165.013 -10.080  1.00101.47      A16S
ATOM  24416  C2* C   A1158     205.431 160.996 -10.220  1.00 96.83      A16S
ATOM  24417  O2* C   A1158     204.053 161.211 -10.427  1.00 96.83      A16S
ATOM  24418  C3* C   A1158     205.713 159.753  -9.369  1.00 96.83      A16S
ATOM  24419  O3* C   A1158     204.678 158.781  -9.533  1.00 96.83      A16S
ATOM  24420  P   U   A1159     204.794 157.659 -10.679  1.00 86.48      A16S
ATOM  24421  O1P U   A1159     203.615 156.780 -10.542  1.00110.21      A16S
ATOM  24422  O2P U   A1159     206.158 157.065 -10.619  1.00110.21      A16S
ATOM  24423  O5* U   A1159     204.607 158.470 -12.041  1.00 86.48      A16S
ATOM  24424  C5* U   A1159     205.395 158.158 -13.207  1.00 86.48      A16S
ATOM  24425  C4* U   A1159     205.683 159.418 -13.985  1.00 86.48      A16S
ATOM  24426  O4* U   A1159     206.820 159.206 -14.867  1.00 86.48      A16S
ATOM  24427  C1* U   A1159     206.480 159.617 -16.174  1.00 86.48      A16S
ATOM  24428  N1  U   A1159     207.232 158.811 -17.158  1.00110.21      A16S
ATOM  24429  C6  U   A1159     207.541 157.483 -16.947  1.00110.21      A16S
ATOM  24430  C2  U   A1159     207.645 159.450 -18.320  1.00110.21      A16S
ATOM  24431  O2  U   A1159     207.375 160.608 -18.570  1.00110.21      A16S
ATOM  24432  N3  U   A1159     208.387 158.682 -19.183  1.00110.21      A16S
ATOM  24433  C4  U   A1159     208.752 157.368 -19.023  1.00110.21      A16S
ATOM  24434  O4  U   A1159     209.485 156.839 -19.867  1.00110.21      A16S
ATOM  24435  C5  U   A1159     208.268 156.760 -17.816  1.00110.21      A16S
ATOM  24436  C2* U   A1159     204.953 159.553 -16.258  1.00 86.48      A16S
ATOM  24437  O2* U   A1159     204.481 160.435 -17.257  1.00 86.48      A16S
ATOM  24438  C3* U   A1159     204.540 159.965 -14.840  1.00 86.48      A16S
ATOM  24439  O3* U   A1159     204.498 161.395 -14.745  1.00 86.48      A16S
ATOM  24440  P   G   A1160     203.363 162.130 -13.847  1.00 94.95      A16S
ATOM  24441  O1P G   A1160     203.102 161.312 -12.634  1.00 92.51      A16S
ATOM  24442  O2P G   A1160     202.221 162.531 -14.725  1.00 92.51      A16S
ATOM  24443  O5* G   A1160     204.114 163.454 -13.374  1.00 94.95      A16S
ATOM  24444  C5* G   A1160     203.428 164.525 -12.711  1.00 94.95      A16S
ATOM  24445  C4* G   A1160     204.300 165.764 -12.696  1.00 94.95      A16S
ATOM  24446  O4* G   A1160     205.556 165.462 -12.026  1.00 94.95      A16S
ATOM  24447  C1* G   A1160     206.612 166.200 -12.625  1.00 94.95      A16S
ATOM  24448  N9  G   A1160     207.603 165.274 -13.171  1.00 92.51      A16S
ATOM  24449  C4  G   A1160     208.792 165.625 -13.775  1.00 92.51      A16S
ATOM  24450  N3  G   A1160     209.265 166.878 -13.921  1.00 92.51      A16S
ATOM  24451  C2  G   A1160     210.410 166.899 -14.570  1.00 92.51      A16S
ATOM  24452  N2  G   A1160     211.027 168.062 -14.786  1.00 92.51      A16S
ATOM  24453  N1  G   A1160     211.035 165.783 -15.052  1.00 92.51      A16S
ATOM  24454  C6  G   A1160     210.567 164.485 -14.921  1.00 92.51      A16S
ATOM  24455  O6  G   A1160     211.204 163.551 -15.413  1.00 92.51      A16S
ATOM  24456  C5  G   A1160     209.348 164.442 -14.206  1.00 92.51      A16S
ATOM  24457  N7  G   A1160     208.552 163.363 -13.847  1.00 92.51      A16S
ATOM  24458  C8  G   A1160     207.533 163.901 -13.231  1.00 92.51      A16S
ATOM  24459  C2* G   A1160     206.005 167.058 -13.734  1.00 94.95      A16S
ATOM  24460  O2* G   A1160     205.774 168.366 -13.258  1.00 94.95      A16S
ATOM  24461  C3* G   A1160     204.727 166.297 -14.056  1.00 94.95      A16S
ATOM  24462  O3* G   A1160     203.760 167.149 -14.647  1.00 94.95      A16S
ATOM  24463  P   C   A1161     203.807 167.417 -16.231  1.00105.97      A16S
ATOM  24464  O1P C   A1161     202.867 168.527 -16.535  1.00126.79      A16S
ATOM  24465  O2P C   A1161     203.645 166.111 -16.914  1.00126.79      A16S
ATOM  24466  O5* C   A1161     205.290 167.934 -16.499  1.00105.97      A16S
ATOM  24467  C5* C   A1161     205.656 169.304 -16.251  1.00105.97      A16S
ATOM  24468  C4* C   A1161     206.894 169.660 -17.036  1.00105.97      A16S
ATOM  24469  O4* C   A1161     208.019 168.886 -16.544  1.00105.97      A16S
ATOM  24470  C1* C   A1161     208.875 168.549 -17.624  1.00105.97      A16S
ATOM  24471  N1  C   A1161     209.026 167.080 -17.687  1.00126.79      A16S
ATOM  24472  C6  C   A1161     208.070 166.247 -17.173  1.00126.79      A16S
ATOM  24473  C2  C   A1161     210.177 166.546 -18.285  1.00126.79      A16S
ATOM  24474  O2  C   A1161     211.023 167.317 -18.764  1.00126.79      A16S
ATOM  24475  N3  C   A1161     210.336 165.206 -18.330  1.00126.79      A16S
ATOM  24476  C4  C   A1161     209.402 164.407 -17.818  1.00126.79      A16S
ATOM  24477  N4  C   A1161     209.609 163.093 -17.878  1.00126.79      A16S
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ATOM  24478  C5  C   A1161     208.216 164.919 -17.218  1.00126.79      A16S
ATOM  24479  C2* C   A1161     208.295 169.157 -18.901  1.00105.97      A16S
ATOM  24480  O2* C   A1161     208.969 170.365 -19.181  1.00105.97      A16S
ATOM  24481  C3* C   A1161     206.829 169.347 -18.523  1.00105.97      A16S
ATOM  24482  O3* C   A1161     206.206 170.401 -19.256  1.00105.97      A16S
ATOM  24483  P   C   A1162     205.587 170.102 -20.711  1.00110.84      A16S
ATOM  24484  O1P C   A1162     205.010 171.369 -21.228  1.00106.95      A16S
ATOM  24485  O2P C   A1162     204.733 168.890 -20.626  1.00106.95      A16S
ATOM  24486  O5* C   A1162     206.860 169.746 -21.595  1.00110.84      A16S
ATOM  24487  C5* C   A1162     207.677 170.779 -22.172  1.00110.84      A16S
ATOM  24488  C4* C   A1162     208.564 170.187 -23.232  1.00110.84      A16S
ATOM  24489  O4* C   A1162     209.532 169.315 -22.599  1.00110.84      A16S
ATOM  24490  C1* C   A1162     209.712 168.149 -23.386  1.00110.84      A16S
ATOM  24491  N1  C   A1162     209.298 166.977 -22.585  1.00106.95      A16S
ATOM  24492  C6  C   A1162     208.484 167.115 -21.494  1.00106.95      A16S
ATOM  24493  C2  C   A1162     209.752 165.710 -22.967  1.00106.95      A16S
ATOM  24494  O2  C   A1162     210.495 165.611 -23.954  1.00106.95      A16S
ATOM  24495  N3  C   A1162     209.372 164.629 -22.251  1.00106.95      A16S
ATOM  24496  C4  C   A1162     208.577 164.776 -21.191  1.00106.95      A16S
ATOM  24497  N4  C   A1162     208.230 163.680 -20.518  1.00106.95      A16S
ATOM  24498  C5  C   A1162     208.104 166.053 -20.775  1.00106.95      A16S
ATOM  24499  C2* C   A1162     208.886 168.312 -24.664  1.00110.84      A16S
ATOM  24500  O2* C   A1162     209.688 168.819 -25.712  1.00110.84      A16S
ATOM  24501  C3* C   A1162     207.820 169.294 -24.209  1.00110.84      A16S
ATOM  24502  O3* C   A1162     207.245 170.028 -25.274  1.00110.84      A16S
ATOM  24503  P   C   A1163     205.844 169.551 -25.891  1.00117.58      A16S
ATOM  24504  O1P C   A1163     205.238 170.738 -26.545  1.00117.59      A16S
ATOM  24505  O2P C   A1163     205.083 168.823 -24.836  1.00117.59      A16S
ATOM  24506  O5* C   A1163     206.269 168.513 -27.020  1.00117.58      A16S
ATOM  24507  C5* C   A1163     207.029 168.949 -28.153  1.00117.58      A16S
ATOM  24508  C4* C   A1163     207.529 167.767 -28.940  1.00117.58      A16S
ATOM  24509  O4* C   A1163     208.507 167.025 -28.166  1.00117.58      A16S
ATOM  24510  C1* C   A1163     208.432 165.648 -28.501  1.00117.58      A16S
ATOM  24511  N1  C   A1163     208.137 164.871 -27.285  1.00117.59      A16S
ATOM  24512  C6  C   A1163     207.592 165.469 -26.182  1.00117.59      A16S
ATOM  24513  C2  C   A1163     208.411 163.494 -27.278  1.00117.59      A16S
ATOM  24514  O2  C   A1163     208.918 162.974 -28.284  1.00117.59      A16S
ATOM  24515  N3  C   A1163     208.114 162.767 -26.177  1.00117.59      A16S
ATOM  24516  C4  C   A1163     207.572 163.361 -25.111  1.00117.59      A16S
ATOM  24517  N4  C   A1163     207.286 162.606 -24.051  1.00117.59      A16S
ATOM  24518  C5  C   A1163     207.295 164.759 -25.086  1.00117.59      A16S
ATOM  24519  C2* C   A1163     207.343 165.486 -29.561  1.00117.58      A16S
ATOM  24520  O2* C   A1163     207.938 165.463 -30.844  1.00117.58      A16S
ATOM  24521  C3* C   A1163     206.492 166.728 -29.323  1.00117.58      A16S
ATOM  24522  O3* C   A1163     205.749 167.107 -30.472  1.00117.58      A16S
ATOM  24523  P   G   A1164     204.294 166.469 -30.715  1.00119.12      A16S
ATOM  24524  O1P G   A1164     203.751 167.046 -31.974  1.00119.55      A16S
ATOM  24525  O2P G   A1164     203.518 166.596 -29.454  1.00119.55      A16S
ATOM  24526  O5* G   A1164     204.598 164.926 -30.964  1.00119.12      A16S
ATOM  24527  C5* G   A1164     205.361 164.509 -32.110  1.00119.12      A16S
ATOM  24528  C4* G   A1164     205.481 163.005 -32.151  1.00119.12      A16S
ATOM  24529  O4* G   A1164     206.406 162.532 -31.135  1.00119.12      A16S
ATOM  24530  C1* G   A1164     205.978 161.265 -30.653  1.00119.12      A16S
ATOM  24531  N9  G   A1164     205.654 161.389 -29.235  1.00119.55      A16S
ATOM  24532  C4  G   A1164     205.500 160.354 -28.340  1.00119.55      A16S
ATOM  24533  N3  G   A1164     205.672 159.041 -28.606  1.00119.55      A16S
ATOM  24534  C2  G   A1164     205.429 158.286 -27.549  1.00119.55      A16S
ATOM  24535  N2  G   A1164     205.568 156.960 -27.634  1.00119.55      A16S
ATOM  24536  N1  G   A1164     205.035 158.777 -26.330  1.00119.55      A16S
ATOM  24537  C6  G   A1164     204.848 160.124 -26.033  1.00119.55      A16S
ATOM  24538  O6  G   A1164     204.482 160.461 -24.899  1.00119.55      A16S
ATOM  24539  C5  G   A1164     205.121 160.949 -27.156  1.00119.55      A16S
ATOM  24540  N7  G   A1164     205.065 162.329 -27.294  1.00119.55      A16S
ATOM  24541  C8  G   A1164     205.396 162.545 -28.537  1.00119.55      A16S
ATOM  24542  C2* G   A1164     204.722 160.878 -31.434  1.00119.12      A16S
ATOM  24543  O2* G   A1164     205.047 160.034 -32.521  1.00119.12      A16S
ATOM  24544  C3* G   A1164     204.205 162.242 -31.864  1.00119.12      A16S
ATOM  24545  O3* G   A1164     203.323 162.180 -32.960  1.00119.12      A16S
ATOM  24546  P   C   A1165     201.752 162.047 -32.677  1.00131.48      A16S
ATOM  24547  O1P C   A1165     201.032 162.255 -33.960  1.00 86.00      A16S
ATOM  24548  O2P C   A1165     201.423 162.900 -31.506  1.00 86.00      A16S
ATOM  24549  O5* C   A1165     201.585 160.528 -32.234  1.00131.48      A16S
ATOM  24550  C5* C   A1165     201.825 159.465 -33.168  1.00131.48      A16S
ATOM  24551  C4* C   A1165     201.397 158.148 -32.578  1.00131.48      A16S
ATOM  24552  O4* C   A1165     202.290 157.792 -31.491  1.00131.48      A16S
ATOM  24553  C1* C   A1165     201.562 157.111 -30.482  1.00131.48      A16S
ATOM  24554  N1  C   A1165     201.622 157.894 -29.231  1.00 86.00      A16S
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ATOM  24555  C6  C   A1165     201.584 159.263 -29.249  1.00 86.00      A16S
ATOM  24556  C2  C   A1165     201.701 157.207 -28.010  1.00 86.00      A16S
ATOM  24557  O2  C   A1165     201.741 155.960 -28.018  1.00 86.00      A16S
ATOM  24558  N3  C   A1165     201.731 157.913 -26.856  1.00 86.00      A16S
ATOM  24559  C4  C   A1165     201.691 159.244 -26.886  1.00 86.00      A16S
ATOM  24560  N4  C   A1165     201.728 159.891 -25.722  1.00 86.00      A16S
ATOM  24561  C5  C   A1165     201.613 159.970 -28.112  1.00 86.00      A16S
ATOM  24562  C2* C   A1165     200.120 156.969 -30.967  1.00131.48      A16S
ATOM  24563  O2* C   A1165     199.933 155.716 -31.594  1.00131.48      A16S
ATOM  24564  C3* C   A1165     200.015 158.129 -31.944  1.00131.48      A16S
ATOM  24565  O3* C   A1165     198.950 157.961 -32.867  1.00131.48      A16S
ATOM  24566  P   G   A1166     197.475 158.463 -32.461  1.00118.15      A16S
ATOM  24567  O1P G   A1166     196.533 157.993 -33.508  1.00108.26      A16S
ATOM  24568  O2P G   A1166     197.518 159.909 -32.110  1.00108.26      A16S
ATOM  24569  O5* G   A1166     197.169 157.657 -31.126  1.00118.15      A16S
ATOM  24570  C5* G   A1166     197.083 156.224 -31.142  1.00118.15      A16S
ATOM  24571  C4* G   A1166     196.731 155.710 -29.771  1.00118.15      A16S
ATOM  24572  O4* G   A1166     197.829 155.971 -28.857  1.00118.15      A16S
ATOM  24573  C1* G   A1166     197.318 156.293 -27.572  1.00118.15      A16S
ATOM  24574  N9  G   A1166     197.659 157.682 -27.274  1.00108.26      A16S
ATOM  24575  C4  G   A1166     197.696 158.261 -26.031  1.00108.26      A16S
ATOM  24576  N3  G   A1166     197.475 157.632 -24.861  1.00108.26      A16S
ATOM  24577  C2  G   A1166     197.542 158.460 -23.837  1.00108.26      A16S
ATOM  24578  N2  G   A1166     197.350 157.999 -22.601  1.00108.26      A16S
ATOM  24579  N1  G   A1166     197.803 159.802 -23.950  1.00108.26      A16S
ATOM  24580  C6  G   A1166     198.032 160.474 -25.145  1.00108.26      A16S
ATOM  24581  O6  G   A1166     198.246 161.695 -25.137  1.00108.26      A16S
ATOM  24582  C5  G   A1166     197.971 159.593 -26.255  1.00108.26      A16S
ATOM  24583  N7  G   A1166     198.140 159.840 -27.609  1.00108.26      A16S
ATOM  24584  C8  G   A1166     197.957 158.679 -28.174  1.00108.26      A16S
ATOM  24585  C2* G   A1166     195.799 156.136 -27.639  1.00118.15      A16S
ATOM  24586  O2* G   A1166     195.426 154.832 -27.241  1.00118.15      A16S
ATOM  24587  C3* G   A1166     195.542 156.386 -29.116  1.00118.15      A16S
ATOM  24588  O3* G   A1166     194.286 155.913 -29.568  1.00118.15      A16S
ATOM  24589  P   A   A1167     193.113 156.977 -29.839  1.00 98.78      A16S
ATOM  24590  O1P A   A1167     191.843 156.237 -30.054  1.00 92.07      A16S
ATOM  24591  O2P A   A1167     193.588 157.933 -30.874  1.00 92.07      A16S
ATOM  24592  O5* A   A1167     193.010 157.764 -28.457  1.00 98.78      A16S
ATOM  24593  C5* A   A1167     192.023 158.786 -28.252  1.00 98.78      A16S
ATOM  24594  C4* A   A1167     191.237 158.498 -26.995  1.00 98.78      A16S
ATOM  24595  O4* A   A1167     190.475 157.279 -27.179  1.00 98.78      A16S
ATOM  24596  C1* A   A1167     190.410 156.569 -25.955  1.00 98.78      A16S
ATOM  24597  N9  A   A1167     190.945 155.221 -26.166  1.00 92.07      A16S
ATOM  24598  C4  A   A1167     190.945 154.204 -25.243  1.00 92.07      A16S
ATOM  24599  N3  A   A1167     190.478 154.248 -23.985  1.00 92.07      A16S
ATOM  24600  C2  A   A1167     190.638 153.073 -23.389  1.00 92.07      A16S
ATOM  24601  N1  A   A1167     191.173 151.944 -23.868  1.00 92.07      A16S
ATOM  24602  C6  A   A1167     191.634 151.933 -25.134  1.00 92.07      A16S
ATOM  24603  N6  A   A1167     192.169 150.807 -25.606  1.00 92.07      A16S
ATOM  24604  C5  A   A1167     191.522 153.118 -25.877  1.00 92.07      A16S
ATOM  24605  N7  A   A1167     191.889 153.445 -27.174  1.00 92.07      A16S
ATOM  24606  C8  A   A1167     191.528 154.699 -27.296  1.00 92.07      A16S
ATOM  24607  C2* A   A1167     191.159 157.377 -24.893  1.00 98.78      A16S
ATOM  24608  O2* A   A1167     190.238 158.129 -24.131  1.00 98.78      A16S
ATOM  24609  C3* A   A1167     192.070 158.250 -25.747  1.00 98.78      A16S
ATOM  24610  O3* A   A1167     192.399 159.469 -25.092  1.00 98.78      A16S
ATOM  24611  P   A   A1168     193.844 159.638 -24.406  1.00 76.80      A16S
ATOM  24612  O1P A   A1168     194.025 161.081 -24.078  1.00 95.33      A16S
ATOM  24613  O2P A   A1168     194.841 158.956 -25.274  1.00 95.33      A16S
ATOM  24614  O5* A   A1168     193.723 158.823 -23.042  1.00 76.80      A16S
ATOM  24615  C5* A   A1168     192.799 159.229 -22.017  1.00 76.80      A16S
ATOM  24616  C4* A   A1168     192.629 158.121 -21.012  1.00 76.80      A16S
ATOM  24617  O4* A   A1168     192.035 156.973 -21.666  1.00 76.80      A16S
ATOM  24618  C1* A   A1168     192.624 155.782 -21.174  1.00 76.80      A16S
ATOM  24619  N9  A   A1168     193.274 155.102 -22.297  1.00 95.33      A16S
ATOM  24620  C4  A   A1168     193.630 153.775 -22.371  1.00 95.33      A16S
ATOM  24621  N3  A   A1168     193.484 152.834 -21.426  1.00 95.33      A16S
ATOM  24622  C2  A   A1168     193.916 151.658 -21.865  1.00 95.33      A16S
ATOM  24623  N1  A   A1168     194.434 151.338 -23.049  1.00 95.33      A16S
ATOM  24624  C6  A   A1168     194.565 152.306 -23.977  1.00 95.33      A16S
ATOM  24625  N6  A   A1168     195.066 151.984 -25.169  1.00 95.33      A16S
ATOM  24626  C5  A   A1168     194.155 153.598 -23.633  1.00 95.33      A16S
ATOM  24627  N7  A   A1168     194.161 154.793 -24.335  1.00 95.33      A16S
ATOM  24628  C8  A   A1168     193.636 155.651 -23.501  1.00 95.33      A16S
ATOM  24629  C2* A   A1168     193.593 156.170 -20.057  1.00 76.80      A16S
ATOM  24630  O2* A   A1168     192.950 156.058 -18.806  1.00 76.80      A16S
ATOM  24631  C3* A   A1168     193.930 157.606 -20.426  1.00 76.80      A16S
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ATOM  24632  O3*  A   A1168      194.332 158.375 -19.305  1.00 76.80       A16S
ATOM  24633  P    A   A1169      195.899 158.557 -18.987  1.00 64.40       A16S
ATOM  24634  O1P  A   A1169      196.020 159.564 -17.898  1.00 92.48       A16S
ATOM  24635  O2P  A   A1169      196.601 158.789 -20.275  1.00 92.48       A16S
ATOM  24636  O5*  A   A1169      196.349 157.142 -18.397  1.00 64.40       A16S
ATOM  24637  C5*  A   A1169      195.969 156.739 -17.059  1.00 64.40       A16S
ATOM  24638  C4*  A   A1169      196.130 155.248 -16.893  1.00 64.40       A16S
ATOM  24639  O4*  A   A1169      195.360 154.597 -17.929  1.00 64.40       A16S
ATOM  24640  C1*  A   A1169      196.061 153.473 -18.414  1.00 64.40       A16S
ATOM  24641  N9   A   A1169      196.403 153.733 -19.813  1.00 92.48       A16S
ATOM  24642  C4   A   A1169      196.799 152.807 -20.744  1.00 92.48       A16S
ATOM  24643  N3   A   A1169      196.949 151.486 -20.565  1.00 92.48       A16S
ATOM  24644  C2   A   A1169      197.357 150.908 -21.685  1.00 92.48       A16S
ATOM  24645  N1   A   A1169      197.613 151.459 -22.875  1.00 92.48       A16S
ATOM  24646  C6   A   A1169      197.449 152.789 -23.021  1.00 92.48       A16S
ATOM  24647  N6   A   A1169      197.700 153.337 -24.211  1.00 92.48       A16S
ATOM  24648  C5   A   A1169      197.020 153.514 -21.909  1.00 92.48       A16S
ATOM  24649  N7   A   A1169      196.762 154.861 -21.722  1.00 92.48       A16S
ATOM  24650  C8   A   A1169      196.404 154.939 -20.467  1.00 92.48       A16S
ATOM  24651  C2*  A   A1169      197.293 153.288 -17.531  1.00 64.40       A16S
ATOM  24652  O2*  A   A1169      196.970 152.426 -16.459  1.00 64.40       A16S
ATOM  24653  C3*  A   A1169      197.544 154.709 -17.052  1.00 64.40       A16S
ATOM  24654  O3*  A   A1169      198.236 154.697 -15.808  1.00 64.40       A16S
ATOM  24655  P    G   A1171      199.754 155.228 -15.718  1.00 95.85       A16S
ATOM  24656  O1P  G   A1171      200.314 154.641 -14.472  1.00 76.80       A16S
ATOM  24657  O2P  G   A1171      199.751 156.702 -15.893  1.00 76.80       A16S
ATOM  24658  O5*  G   A1171      200.499 154.569 -16.968  1.00 95.85       A16S
ATOM  24659  C5*  G   A1171      200.704 153.141 -17.040  1.00 95.85       A16S
ATOM  24660  C4*  G   A1171      201.024 152.717 -18.459  1.00 95.85       A16S
ATOM  24661  O4*  G   A1171      200.080 153.358 -19.352  1.00 95.85       A16S
ATOM  24662  C1*  G   A1171      200.704 153.644 -20.586  1.00 95.85       A16S
ATOM  24663  N9   G   A1171      200.627 155.078 -20.818  1.00 76.80       A16S
ATOM  24664  C4   G   A1171      200.688 155.697 -22.035  1.00 76.80       A16S
ATOM  24665  N3   G   A1171      200.844 155.085 -23.223  1.00 76.80       A16S
ATOM  24666  C2   G   A1171      200.844 155.947 -24.227  1.00 76.80       A16S
ATOM  24667  N2   G   A1171      200.981 155.501 -25.487  1.00 76.80       A16S
ATOM  24668  N1   G   A1171      200.706 157.307 -24.072  1.00 76.80       A16S
ATOM  24669  C6   G   A1171      200.545 157.957 -22.854  1.00 76.80       A16S
ATOM  24670  O6   G   A1171      200.419 159.184 -22.825  1.00 76.80       A16S
ATOM  24671  C5   G   A1171      200.544 157.041 -21.770  1.00 76.80       A16S
ATOM  24672  N7   G   A1171      200.412 157.262 -20.406  1.00 76.80       A16S
ATOM  24673  C8   G   A1171      200.471 156.070 -19.881  1.00 76.80       A16S
ATOM  24674  C2*  G   A1171      202.139 153.132 -20.522  1.00 95.85       A16S
ATOM  24675  O2*  G   A1171      202.172 151.860 -21.133  1.00 95.85       A16S
ATOM  24676  C3*  G   A1171      202.390 153.090 -19.018  1.00 95.85       A16S
ATOM  24677  O3*  G   A1171      203.375 152.109 -18.685  1.00 95.85       A16S
ATOM  24678  P    C   A1172      204.929 152.403 -18.988  1.00 86.12       A16S
ATOM  24679  O1P  C   A1172      205.747 151.308 -18.392  1.00 83.47       A16S
ATOM  24680  O2P  C   A1172      205.213 153.815 -18.620  1.00 83.47       A16S
ATOM  24681  O5*  C   A1172      205.032 152.309 -20.572  1.00 86.12       A16S
ATOM  24682  C5*  C   A1172      204.932 151.047 -21.248  1.00 86.12       A16S
ATOM  24683  C4*  C   A1172      205.227 151.229 -22.715  1.00 86.12       A16S
ATOM  24684  O4*  C   A1172      204.208 152.074 -23.311  1.00 86.12       A16S
ATOM  24685  C1*  C   A1172      204.793 152.916 -24.290  1.00 86.12       A16S
ATOM  24686  N1   C   A1172      204.593 154.324 -23.894  1.00 83.47       A16S
ATOM  24687  C6   C   A1172      204.399 154.670 -22.583  1.00 83.47       A16S
ATOM  24688  C2   C   A1172      204.614 155.318 -24.894  1.00 83.47       A16S
ATOM  24689  O2   C   A1172      204.792 154.983 -26.079  1.00 83.47       A16S
ATOM  24690  N3   C   A1172      204.443 156.614 -24.540  1.00 83.47       A16S
ATOM  24691  C4   C   A1172      204.260 156.937 -23.256  1.00 83.47       A16S
ATOM  24692  N4   C   A1172      204.102 158.226 -22.955  1.00 83.47       A16S
ATOM  24693  C5   C   A1172      204.232 155.950 -22.223  1.00 83.47       A16S
ATOM  24694  C2*  C   A1172      206.272 152.554 -24.388  1.00 86.12       A16S
ATOM  24695  O2*  C   A1172      206.442 151.632 -25.442  1.00 86.12       A16S
ATOM  24696  C3*  C   A1172      206.531 151.949 -23.014  1.00 86.12       A16S
ATOM  24697  O3*  C   A1172      207.659 151.082 -22.974  1.00 86.12       A16S
ATOM  24698  P    G   A1173      209.109 151.691 -22.632  1.00114.69       A16S
ATOM  24699  O1P  G   A1173      210.044 150.544 -22.543  1.00115.58       A16S
ATOM  24700  O2P  G   A1173      208.998 152.637 -21.485  1.00115.58       A16S
ATOM  24701  O5*  G   A1173      209.459 152.542 -23.933  1.00114.69       A16S
ATOM  24702  C5*  G   A1173      209.533 151.905 -25.223  1.00114.69       A16S
ATOM  24703  C4*  G   A1173      209.852 152.915 -26.303  1.00114.69       A16S
ATOM  24704  O4*  G   A1173      208.676 153.691 -26.656  1.00114.69       A16S
ATOM  24705  C1*  G   A1173      209.065 155.008 -27.018  1.00114.69       A16S
ATOM  24706  N9   G   A1173      208.450 155.947 -26.081  1.00115.58       A16S
ATOM  24707  C4   G   A1173      208.385 157.317 -26.216  1.00115.58       A16S
ATOM  24708  N3   G   A1173      208.835 158.036 -27.267  1.00115.58       A16S
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ATOM  24709  C2  G  A1173     208.663 159.335 -27.085  1.00115.58      A16S
ATOM  24710  N2  G  A1173     209.054 160.200 -28.032  1.00115.58      A16S
ATOM  24711  N1  G  A1173     208.098 159.882 -25.962  1.00115.58      A16S
ATOM  24712  C6  G  A1173     207.632 159.160 -24.868  1.00115.58      A16S
ATOM  24713  O6  G  A1173     207.152 159.752 -23.898  1.00115.58      A16S
ATOM  24714  C5  G  A1173     207.800 157.769 -25.053  1.00115.58      A16S
ATOM  24715  N7  G  A1173     207.470 156.710 -24.221  1.00115.58      A16S
ATOM  24716  C8  G  A1173     207.865 155.651 -24.873  1.00115.58      A16S
ATOM  24717  C2* G  A1173     210.594 155.072 -26.941  1.00114.69      A16S
ATOM  24718  O2* G  A1173     211.162 154.849 -28.217  1.00114.69      A16S
ATOM  24719  C3* G  A1173     210.900 153.953 -25.953  1.00114.69      A16S
ATOM  24720  O3* G  A1173     212.221 153.453 -26.060  1.00114.69      A16S
ATOM  24721  P   G  A1174     213.355 154.014 -25.072  1.00 94.71      A16S
ATOM  24722  O1P G  A1174     214.579 153.234 -25.352  1.00106.40      A16S
ATOM  24723  O2P G  A1174     212.825 154.064 -23.685  1.00106.40      A16S
ATOM  24724  O5* G  A1174     213.574 155.510 -25.581  1.00 94.71      A16S
ATOM  24725  C5* G  A1174     213.930 155.767 -26.952  1.00 94.71      A16S
ATOM  24726  C4* G  A1174     213.893 157.248 -27.253  1.00 94.71      A16S
ATOM  24727  O4* G  A1174     212.531 157.746 -27.159  1.00 94.71      A16S
ATOM  24728  C1* G  A1174     212.557 159.124 -26.815  1.00 94.71      A16S
ATOM  24729  N9  G  A1174     211.759 159.365 -25.612  1.00106.40      A16S
ATOM  24730  C4  G  A1174     211.322 160.599 -25.191  1.00106.40      A16S
ATOM  24731  N3  G  A1174     211.514 161.766 -25.842  1.00106.40      A16S
ATOM  24732  C2  G  A1174     211.014 162.790 -25.180  1.00106.40      A16S
ATOM  24733  N2  G  A1174     211.118 164.023 -25.698  1.00106.40      A16S
ATOM  24734  N1  G  A1174     210.378 162.681 -23.966  1.00106.40      A16S
ATOM  24735  C6  G  A1174     210.170 161.491 -23.273  1.00106.40      A16S
ATOM  24736  O6  G  A1174     209.597 161.508 -22.175  1.00106.40      A16S
ATOM  24737  C5  G  A1174     210.695 160.377 -23.983  1.00106.40      A16S
ATOM  24738  N7  G  A1174     210.703 159.024 -23.665  1.00106.40      A16S
ATOM  24739  C8  G  A1174     211.336 158.461 -24.663  1.00106.40      A16S
ATOM  24740  C2* G  A1174     214.016 159.523 -26.580  1.00 94.71      A16S
ATOM  24741  O2* G  A1174     214.528 160.227 -27.697  1.00 94.71      A16S
ATOM  24742  C3* G  A1174     214.679 158.171 -26.335  1.00 94.71      A16S
ATOM  24743  O3* G  A1174     216.077 158.213 -26.601  1.00 94.71      A16S
ATOM  24744  P   G  A1175     217.092 158.670 -25.433  1.00108.89      A16S
ATOM  24745  O1P G  A1175     218.474 158.508 -25.959  1.00105.34      A16S
ATOM  24746  O2P G  A1175     216.704 157.972 -24.176  1.00105.34      A16S
ATOM  24747  O5* G  A1175     216.792 160.228 -25.246  1.00108.89      A16S
ATOM  24748  C5* G  A1175     217.013 161.157 -26.327  1.00108.89      A16S
ATOM  24749  C4* G  A1175     216.475 162.531 -25.983  1.00108.89      A16S
ATOM  24750  O4* G  A1175     215.036 162.467 -25.789  1.00108.89      A16S
ATOM  24751  C1* G  A1175     214.637 163.425 -24.813  1.00108.89      A16S
ATOM  24752  N9  G  A1175     214.069 162.724 -23.661  1.00105.34      A16S
ATOM  24753  C4  G  A1175     213.390 163.303 -22.611  1.00105.34      A16S
ATOM  24754  N3  G  A1175     213.126 164.619 -22.466  1.00105.34      A16S
ATOM  24755  C2  G  A1175     212.468 164.868 -21.348  1.00105.34      A16S
ATOM  24756  N2  G  A1175     212.138 166.125 -21.034  1.00105.34      A16S
ATOM  24757  N1  G  A1175     212.089 163.903 -20.451  1.00105.34      A16S
ATOM  24758  C6  G  A1175     212.344 162.543 -20.585  1.00105.34      A16S
ATOM  24759  O6  G  A1175     211.945 161.754 -19.725  1.00105.34      A16S
ATOM  24760  C5  G  A1175     213.063 162.262 -21.769  1.00105.34      A16S
ATOM  24761  N7  G  A1175     213.528 161.055 -22.272  1.00105.34      A16S
ATOM  24762  C8  G  A1175     214.113 161.375 -23.394  1.00105.34      A16S
ATOM  24763  C2* G  A1175     215.886 164.198 -24.399  1.00108.89      A16S
ATOM  24764  O2* G  A1175     215.990 165.392 -25.155  1.00108.89      A16S
ATOM  24765  C3* G  A1175     216.981 163.184 -24.705  1.00108.89      A16S
ATOM  24766  O3* G  A1175     218.251 163.798 -24.823  1.00108.89      A16S
ATOM  24767  P   A  A1176     219.131 164.038 -23.497  1.00129.69      A16S
ATOM  24768  O1P A  A1176     220.430 164.587 -23.949  1.00104.82      A16S
ATOM  24769  O2P A  A1176     219.104 162.800 -22.666  1.00104.82      A16S
ATOM  24770  O5* A  A1176     218.356 165.196 -22.719  1.00129.69      A16S
ATOM  24771  C5* A  A1176     218.225 166.511 -23.301  1.00129.69      A16S
ATOM  24772  C4* A  A1176     217.608 167.483 -22.315  1.00129.69      A16S
ATOM  24773  O4* A  A1176     216.223 167.135 -22.061  1.00129.69      A16S
ATOM  24774  C1* A  A1176     215.883 167.477 -20.727  1.00129.69      A16S
ATOM  24775  N9  A  A1176     215.410 166.270 -20.043  1.00104.82      A16S
ATOM  24776  C4  A  A1176     214.674 166.236 -18.883  1.00104.82      A16S
ATOM  24777  N3  A  A1176     214.251 167.283 -18.154  1.00104.82      A16S
ATOM  24778  C2  A  A1176     213.568 166.867 -17.094  1.00104.82      A16S
ATOM  24779  N1  A  A1176     213.279 165.621 -16.709  1.00104.82      A16S
ATOM  24780  C6  A  A1176     213.715 164.593 -17.464  1.00104.82      A16S
ATOM  24781  N6  A  A1176     213.422 163.351 -17.080  1.00104.82      A16S
ATOM  24782  C5  A  A1176     214.455 164.898 -18.614  1.00104.82      A16S
ATOM  24783  N7  A  A1176     215.042 164.098 -19.584  1.00104.82      A16S
ATOM  24784  C8  A  A1176     215.595 164.956 -20.405  1.00104.82      A16S
ATOM  24785  C2* A  A1176     217.114 168.113 -20.075  1.00129.69      A16S
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ATOM  24786  O2* A   A1176     216.999 169.523 -20.130  1.00129.69      A16S
ATOM  24787  C3* A   A1176     218.248 167.564 -20.939  1.00129.69      A16S
ATOM  24788  O3* A   A1176     219.387 168.417 -20.951  1.00129.69      A16S
ATOM  24789  P   G   A1177     220.663 168.057 -20.042  1.00 97.14      A16S
ATOM  24790  O1P G   A1177     221.773 168.931 -20.504  1.00 96.34      A16S
ATOM  24791  O2P G   A1177     220.848 166.585 -20.045  1.00 96.34      A16S
ATOM  24792  O5* G   A1177     220.233 168.509 -18.573  1.00 97.14      A16S
ATOM  24793  C5* G   A1177     219.838 169.871 -18.308  1.00 97.14      A16S
ATOM  24794  C4* G   A1177     218.933 169.937 -17.099  1.00 97.14      A16S
ATOM  24795  O4* G   A1177     217.722 169.180 -17.348  1.00 97.14      A16S
ATOM  24796  C1* G   A1177     217.275 168.580 -16.141  1.00 97.14      A16S
ATOM  24797  N9  G   A1177     217.225 167.133 -16.326  1.00 96.34      A16S
ATOM  24798  C4  G   A1177     216.547 166.234 -15.539  1.00 96.34      A16S
ATOM  24799  N3  G   A1177     215.793 166.533 -14.460  1.00 96.34      A16S
ATOM  24800  C2  G   A1177     215.290 165.449 -13.899  1.00 96.34      A16S
ATOM  24801  N2  G   A1177     214.520 165.555 -12.805  1.00 96.34      A16S
ATOM  24802  N1  G   A1177     215.507 164.180 -14.366  1.00 96.34      A16S
ATOM  24803  C6  G   A1177     216.282 163.855 -15.472  1.00 96.34      A16S
ATOM  24804  O6  G   A1177     216.426 162.680 -15.800  1.00 96.34      A16S
ATOM  24805  C5  G   A1177     216.822 164.998 -16.079  1.00 96.34      A16S
ATOM  24806  N7  G   A1177     217.641 165.115 -17.191  1.00 96.34      A16S
ATOM  24807  C8  G   A1177     217.853 166.397 -17.302  1.00 96.34      A16S
ATOM  24808  C2* G   A1177     218.244 168.981 -15.027  1.00 97.14      A16S
ATOM  24809  O2* G   A1177     217.706 170.057 -14.284  1.00 97.14      A16S
ATOM  24810  C3* G   A1177     219.493 169.346 -15.819  1.00 97.14      A16S
ATOM  24811  O3* G   A1177     220.289 170.283 -15.125  1.00 97.14      A16S
ATOM  24812  P   G   A1178     221.690 169.815 -14.516  1.00 93.58      A16S
ATOM  24813  O1P G   A1178     222.264 170.945 -13.752  1.00 91.68      A16S
ATOM  24814  O2P G   A1178     222.449 169.227 -15.648  1.00 91.68      A16S
ATOM  24815  O5* G   A1178     221.306 168.667 -13.477  1.00 93.58      A16S
ATOM  24816  C5* G   A1178     220.677 168.985 -12.215  1.00 93.58      A16S
ATOM  24817  C4* G   A1178     220.225 167.723 -11.506  1.00 93.58      A16S
ATOM  24818  O4* G   A1178     219.185 167.061 -12.276  1.00 93.58      A16S
ATOM  24819  C1* G   A1178     219.285 165.653 -12.103  1.00 93.58      A16S
ATOM  24820  N9  G   A1178     219.551 165.034 -13.399  1.00 91.68      A16S
ATOM  24821  C4  G   A1178     219.440 163.697 -13.701  1.00 91.68      A16S
ATOM  24822  N3  G   A1178     219.017 162.728 -12.864  1.00 91.68      A16S
ATOM  24823  C2  G   A1178     219.037 161.540 -13.435  1.00 91.68      A16S
ATOM  24824  N2  G   A1178     218.631 160.469 -12.750  1.00 91.68      A16S
ATOM  24825  N1  G   A1178     219.452 161.315 -14.723  1.00 91.68      A16S
ATOM  24826  C6  G   A1178     219.896 162.297 -15.604  1.00 91.68      A16S
ATOM  24827  O6  G   A1178     220.259 161.986 -16.749  1.00 91.68      A16S
ATOM  24828  C5  G   A1178     219.865 163.580 -15.007  1.00 91.68      A16S
ATOM  24829  N7  G   A1178     220.206 164.820 -15.527  1.00 91.68      A16S
ATOM  24830  C8  G   A1178     219.998 165.652 -14.543  1.00 91.68      A16S
ATOM  24831  C2* G   A1178     220.434 165.386 -11.128  1.00 93.58      A16S
ATOM  24832  O2* G   A1178     219.929 165.236  -9.816  1.00 93.58      A16S
ATOM  24833  C3* G   A1178     221.276 166.644 -11.290  1.00 93.58      A16S
ATOM  24834  O3* G   A1178     222.073 166.881 -10.139  1.00 93.58      A16S
ATOM  24835  P   A   A1179     223.638 166.512 -10.168  1.00 68.14      A16S
ATOM  24836  O1P A   A1179     224.222 166.935  -8.860  1.00 82.40      A16S
ATOM  24837  O2P A   A1179     224.210 167.038 -11.438  1.00 82.40      A16S
ATOM  24838  O5* A   A1179     223.688 164.916 -10.228  1.00 68.14      A16S
ATOM  24839  C5* A   A1179     224.956 164.226 -10.344  1.00 68.14      A16S
ATOM  24840  C4* A   A1179     224.881 162.842  -9.731  1.00 68.14      A16S
ATOM  24841  O4* A   A1179     224.661 162.932  -8.296  1.00 68.14      A16S
ATOM  24842  C1* A   A1179     223.837 161.860  -7.868  1.00 68.14      A16S
ATOM  24843  N9  A   A1179     222.579 162.433  -7.390  1.00 82.40      A16S
ATOM  24844  C4  A   A1179     221.635 161.805  -6.617  1.00 82.40      A16S
ATOM  24845  N3  A   A1179     221.698 160.567  -6.104  1.00 82.40      A16S
ATOM  24846  C2  A   A1179     220.594 160.291  -5.417  1.00 82.40      A16S
ATOM  24847  N1  A   A1179     219.516 161.049  -5.204  1.00 82.40      A16S
ATOM  24848  C6  A   A1179     219.483 162.286  -5.735  1.00 82.40      A16S
ATOM  24849  N6  A   A1179     218.401 163.039  -5.528  1.00 82.40      A16S
ATOM  24850  C5  A   A1179     220.598 162.705  -6.481  1.00 82.40      A16S
ATOM  24851  N7  A   A1179     220.890 163.891  -7.138  1.00 82.40      A16S
ATOM  24852  C8  A   A1179     222.075 163.682  -7.651  1.00 82.40      A16S
ATOM  24853  C2* A   A1179     223.591 160.965  -9.084  1.00 68.14      A16S
ATOM  24854  O2* A   A1179     224.535 159.914  -9.117  1.00 68.14      A16S
ATOM  24855  C3* A   A1179     223.755 161.959 -10.224  1.00 68.14      A16S
ATOM  24856  O3* A   A1179     224.050 161.368 -11.465  1.00 68.14      A16S
ATOM  24857  P   A   A1180     222.907 161.311 -12.587  1.00 75.47      A16S
ATOM  24858  O1P A   A1180     223.497 160.770 -13.830  1.00104.25      A16S
ATOM  24859  O2P A   A1180     222.218 162.622 -12.620  1.00104.25      A16S
ATOM  24860  O5* A   A1180     221.901 160.226 -12.009  1.00 75.47      A16S
ATOM  24861  C5* A   A1180     222.397 158.979 -11.498  1.00 75.47      A16S
ATOM  24862  C4* A   A1180     221.353 158.311 -10.641  1.00 75.47      A16S
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ATOM  24863  O4*  A   A1180     221.113 159.106  -9.451  1.00 75.47      A16S
ATOM  24864  C1*  A   A1180     219.734 159.074  -9.121  1.00 75.47      A16S
ATOM  24865  N9   A   A1180     219.218 160.444  -9.196  1.00104.25      A16S
ATOM  24866  C4   A   A1180     218.136 160.961  -8.525  1.00104.25      A16S
ATOM  24867  N3   A   A1180     217.335 160.326  -7.655  1.00104.25      A16S
ATOM  24868  C2   A   A1180     216.382 161.143  -7.212  1.00104.25      A16S
ATOM  24869  N1   A   A1180     216.154 162.423  -7.519  1.00104.25      A16S
ATOM  24870  C6   A   A1180     216.976 163.031  -8.397  1.00104.25      A16S
ATOM  24871  N6   A   A1180     216.741 164.307  -8.713  1.00104.25      A16S
ATOM  24872  C5   A   A1180     218.031 162.276  -8.934  1.00104.25      A16S
ATOM  24873  N7   A   A1180     219.032 162.589  -9.839  1.00104.25      A16S
ATOM  24874  C8   A   A1180     219.708 161.475  -9.958  1.00104.25      A16S
ATOM  24875  C2*  A   A1180     219.050 158.112 -10.100  1.00 75.47      A16S
ATOM  24876  O2*  A   A1180     219.003 156.820  -9.528  1.00 75.47      A16S
ATOM  24877  C3*  A   A1180     219.992 158.170 -11.298  1.00 75.47      A16S
ATOM  24878  O3*  A   A1180     219.938 157.018 -12.133  1.00 75.47      A16S
ATOM  24879  P    G   A1181     219.311 157.138 -13.612  1.00 65.98      A16S
ATOM  24880  O1P  G   A1181     219.427 155.802 -14.248  1.00 77.44      A16S
ATOM  24881  O2P  G   A1181     219.878 158.328 -14.305  1.00 77.44      A16S
ATOM  24882  O5*  G   A1181     217.773 157.430 -13.332  1.00 65.98      A16S
ATOM  24883  C5*  G   A1181     217.006 156.553 -12.491  1.00 65.98      A16S
ATOM  24884  C4*  G   A1181     215.619 156.402 -13.048  1.00 65.98      A16S
ATOM  24885  O4*  G   A1181     214.886 157.633 -12.837  1.00 65.98      A16S
ATOM  24886  C1*  G   A1181     214.366 158.062 -14.067  1.00 65.98      A16S
ATOM  24887  N9   G   A1181     214.105 159.490 -13.998  1.00 77.44      A16S
ATOM  24888  C4   G   A1181     213.063 160.047 -13.318  1.00 77.44      A16S
ATOM  24889  N3   G   A1181     212.136 159.369 -12.618  1.00 77.44      A16S
ATOM  24890  C2   G   A1181     211.248 160.171 -12.076  1.00 77.44      A16S
ATOM  24891  N2   G   A1181     210.246 159.653 -11.364  1.00 77.44      A16S
ATOM  24892  N1   G   A1181     211.277 161.538 -12.196  1.00 77.44      A16S
ATOM  24893  C6   G   A1181     212.236 162.257 -12.900  1.00 77.44      A16S
ATOM  24894  O6   G   A1181     212.189 163.489 -12.922  1.00 77.44      A16S
ATOM  24895  C5   G   A1181     213.183 161.401 -13.507  1.00 77.44      A16S
ATOM  24896  N7   G   A1181     214.281 161.690 -14.300  1.00 77.44      A16S
ATOM  24897  C8   G   A1181     214.800 160.523 -14.566  1.00 77.44      A16S
ATOM  24898  C2*  G   A1181     215.303 157.505 -15.132  1.00 65.98      A16S
ATOM  24899  O2*  G   A1181     214.664 157.488 -16.390  1.00 65.98      A16S
ATOM  24900  C3*  G   A1181     215.568 156.117 -14.550  1.00 65.98      A16S
ATOM  24901  O3*  G   A1181     214.423 155.297 -14.808  1.00 65.98      A16S
ATOM  24902  P    G   A1182     214.586 153.717 -15.047  1.00104.68      A16S
ATOM  24903  O1P  G   A1182     215.310 153.145 -13.886  1.00 88.98      A16S
ATOM  24904  O2P  G   A1182     215.117 153.508 -16.418  1.00 88.98      A16S
ATOM  24905  O5*  G   A1182     213.079 153.198 -15.012  1.00104.68      A16S
ATOM  24906  C5*  G   A1182     212.433 152.846 -13.768  1.00104.68      A16S
ATOM  24907  C4*  G   A1182     211.013 153.372 -13.742  1.00104.68      A16S
ATOM  24908  O4*  G   A1182     211.082 154.820 -13.757  1.00104.68      A16S
ATOM  24909  C1*  G   A1182     210.059 155.349 -14.578  1.00104.68      A16S
ATOM  24910  N9   G   A1182     210.694 156.163 -15.607  1.00 88.98      A16S
ATOM  24911  C4   G   A1182     210.634 157.533 -15.711  1.00 88.98      A16S
ATOM  24912  N3   G   A1182     209.953 158.364 -14.889  1.00 88.98      A16S
ATOM  24913  C2   G   A1182     210.094 159.635 -15.239  1.00 88.98      A16S
ATOM  24914  N2   G   A1182     209.476 160.595 -14.531  1.00 88.98      A16S
ATOM  24915  N1   G   A1182     210.850 160.056 -16.307  1.00 88.98      A16S
ATOM  24916  C6   G   A1182     211.563 159.219 -17.164  1.00 88.98      A16S
ATOM  24917  O6   G   A1182     212.229 159.704 -18.090  1.00 88.98      A16S
ATOM  24918  C5   G   A1182     211.409 157.850 -16.806  1.00 88.98      A16S
ATOM  24919  N7   G   A1182     211.932 156.703 -17.388  1.00 88.98      A16S
ATOM  24920  C8   G   A1182     211.480 155.729 -16.646  1.00 88.98      A16S
ATOM  24921  C2*  G   A1182     209.194 154.196 -15.096  1.00104.68      A16S
ATOM  24922  O2*  G   A1182     207.974 154.168 -14.388  1.00104.68      A16S
ATOM  24923  C3*  G   A1182     210.135 153.000 -14.933  1.00104.68      A16S
ATOM  24924  O3*  G   A1182     209.598 151.646 -14.902  1.00104.68      A16S
ATOM  24925  P    A   A1183     208.434 151.197 -13.859  1.00 82.03      A16S
ATOM  24926  O1P  A   A1183     208.087 149.808 -14.265  1.00 92.90      A16S
ATOM  24927  O2P  A   A1183     207.341 152.193 -13.708  1.00 92.90      A16S
ATOM  24928  O5*  A   A1183     209.198 151.051 -12.473  1.00 82.03      A16S
ATOM  24929  C5*  A   A1183     208.958 151.966 -11.414  1.00 82.03      A16S
ATOM  24930  C4*  A   A1183     209.565 151.446 -10.146  1.00 82.03      A16S
ATOM  24931  O4*  A   A1183     208.901 150.218  -9.775  1.00 82.03      A16S
ATOM  24932  C1*  A   A1183     209.797 149.408  -9.046  1.00 82.03      A16S
ATOM  24933  N9   A   A1183     209.629 148.015  -9.456  1.00 92.90      A16S
ATOM  24934  C4   A   A1183     209.353 146.983  -8.594  1.00 92.90      A16S
ATOM  24935  N3   A   A1183     209.203 147.056  -7.261  1.00 92.90      A16S
ATOM  24936  C2   A   A1183     208.935 145.858  -6.753  1.00 92.90      A16S
ATOM  24937  N1   A   A1183     208.809 144.687  -7.377  1.00 92.90      A16S
ATOM  24938  C6   A   A1183     208.965 144.649  -8.718  1.00 92.90      A16S
ATOM  24939  N6   A   A1183     208.833 143.478  -9.341  1.00 92.90      A16S
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ATOM  24940  C5  A  A1183     209.253 145.854  -9.377  1.00 92.90      A16S
ATOM  24941  N7  A  A1183     209.467 146.162 -10.714  1.00 92.90      A16S
ATOM  24942  C8  A  A1183     209.689 147.455 -10.706  1.00 92.90      A16S
ATOM  24943  C2* A  A1183     211.201 150.012  -9.124  1.00 82.03      A16S
ATOM  24944  O2* A  A1183     211.516 150.484  -7.829  1.00 82.03      A16S
ATOM  24945  C3* A  A1183     211.035 151.072 -10.227  1.00 82.03      A16S
ATOM  24946  O3* A  A1183     211.835 152.279 -10.225  1.00 82.03      A16S
ATOM  24947  P   G  A1184     212.692 152.729  -8.933  1.00 74.94      A16S
ATOM  24948  O1P G  A1184     213.444 151.592  -8.331  1.00 67.14      A16S
ATOM  24949  O2P G  A1184     211.797 153.546  -8.072  1.00 67.14      A16S
ATOM  24950  O5* G  A1184     213.791 153.701  -9.556  1.00 74.94      A16S
ATOM  24951  C5* G  A1184     214.432 153.395 -10.816  1.00 74.94      A16S
ATOM  24952  C4* G  A1184     215.879 152.997 -10.596  1.00 74.94      A16S
ATOM  24953  O4* G  A1184     216.533 154.016  -9.798  1.00 74.94      A16S
ATOM  24954  C1* G  A1184     217.499 153.416  -8.953  1.00 74.94      A16S
ATOM  24955  N9  G  A1184     217.178 153.733  -7.562  1.00 67.14      A16S
ATOM  24956  C4  G  A1184     217.978 153.486  -6.472  1.00 67.14      A16S
ATOM  24957  N3  G  A1184     219.197 152.914  -6.501  1.00 67.14      A16S
ATOM  24958  C2  G  A1184     219.725 152.821  -5.299  1.00 67.14      A16S
ATOM  24959  N2  G  A1184     220.938 152.284  -5.151  1.00 67.14      A16S
ATOM  24960  N1  G  A1184     219.105 153.247  -4.155  1.00 67.14      A16S
ATOM  24961  C6  G  A1184     217.849 153.832  -4.101  1.00 67.14      A16S
ATOM  24962  O6  G  A1184     217.378 154.172  -3.015  1.00 67.14      A16S
ATOM  24963  C5  G  A1184     217.273 153.948  -5.385  1.00 67.14      A16S
ATOM  24964  N7  G  A1184     216.053 154.479  -5.778  1.00 67.14      A16S
ATOM  24965  C8  G  A1184     216.039 154.329  -7.075  1.00 67.14      A16S
ATOM  24966  C2* G  A1184     217.505 151.913  -9.229  1.00 74.94      A16S
ATOM  24967  O2* G  A1184     218.559 151.578 -10.114  1.00 74.94      A16S
ATOM  24968  C3* G  A1184     216.119 151.704  -9.827  1.00 74.94      A16S
ATOM  24969  O3* G  A1184     216.092 150.558 -10.670  1.00 74.94      A16S
ATOM  24970  P   G  A1185     215.851 149.101 -10.028  1.00 61.96      A16S
ATOM  24971  O1P G  A1185     215.895 148.147 -11.162  1.00 77.89      A16S
ATOM  24972  O2P G  A1185     214.650 149.143  -9.149  1.00 77.89      A16S
ATOM  24973  O5* G  A1185     217.133 148.845  -9.116  1.00 61.96      A16S
ATOM  24974  C5* G  A1185     218.384 148.496  -9.713  1.00 61.96      A16S
ATOM  24975  C4* G  A1185     219.368 148.068  -8.660  1.00 61.96      A16S
ATOM  24976  O4* G  A1185     219.780 149.215  -7.881  1.00 61.96      A16S
ATOM  24977  C1* G  A1185     220.069 148.805  -6.550  1.00 61.96      A16S
ATOM  24978  N9  G  A1185     219.175 149.502  -5.630  1.00 77.89      A16S
ATOM  24979  C4  G  A1185     219.293 149.514  -4.266  1.00 77.89      A16S
ATOM  24980  N3  G  A1185     220.276 148.929  -3.557  1.00 77.89      A16S
ATOM  24981  C2  G  A1185     220.105 149.082  -2.264  1.00 77.89      A16S
ATOM  24982  N2  G  A1185     221.002 148.568  -1.413  1.00 77.89      A16S
ATOM  24983  N1  G  A1185     219.047 149.750  -1.707  1.00 77.89      A16S
ATOM  24984  C6  G  A1185     218.023 150.359  -2.421  1.00 77.89      A16S
ATOM  24985  O6  G  A1185     217.111 150.927  -1.821  1.00 77.89      A16S
ATOM  24986  C5  G  A1185     218.201 150.213  -3.810  1.00 77.89      A16S
ATOM  24987  N7  G  A1185     217.427 150.667  -4.869  1.00 77.89      A16S
ATOM  24988  C8  G  A1185     218.044 150.226  -5.929  1.00 77.89      A16S
ATOM  24989  C2* G  A1185     219.828 147.298  -6.461  1.00 61.96      A16S
ATOM  24990  O2* G  A1185     221.039 146.587  -6.589  1.00 61.96      A16S
ATOM  24991  C3* G  A1185     218.877 147.069  -7.625  1.00 61.96      A16S
ATOM  24992  O3* G  A1185     218.944 145.728  -8.062  1.00 61.96      A16S
ATOM  24993  P   G  A1186     218.039 144.622  -7.335  1.00 46.29      A16S
ATOM  24994  O1P G  A1186     218.271 143.321  -8.028  1.00 90.47      A16S
ATOM  24995  O2P G  A1186     216.662 145.173  -7.248  1.00 90.47      A16S
ATOM  24996  O5* G  A1186     218.644 144.522  -5.864  1.00 46.29      A16S
ATOM  24997  C5* G  A1186     219.845 143.773  -5.638  1.00 46.29      A16S
ATOM  24998  C4* G  A1186     220.119 143.622  -4.165  1.00 46.29      A16S
ATOM  24999  O4* G  A1186     220.313 144.933  -3.593  1.00 46.29      A16S
ATOM  25000  C1* G  A1186     219.861 144.938  -2.250  1.00 46.29      A16S
ATOM  25001  N9  G  A1186     218.761 145.891  -2.124  1.00 90.47      A16S
ATOM  25002  C4  G  A1186     218.205 146.306  -0.947  1.00 90.47      A16S
ATOM  25003  N3  G  A1186     218.599 145.927   0.281  1.00 90.47      A16S
ATOM  25004  C2  G  A1186     217.864 146.475   1.219  1.00 90.47      A16S
ATOM  25005  N2  G  A1186     218.129 146.204   2.499  1.00 90.47      A16S
ATOM  25006  N1  G  A1186     216.815 147.328   0.973  1.00 90.47      A16S
ATOM  25007  C6  G  A1186     216.389 147.726  -0.288  1.00 90.47      A16S
ATOM  25008  O6  G  A1186     215.423 148.485  -0.404  1.00 90.47      A16S
ATOM  25009  C5  G  A1186     217.178 147.152  -1.303  1.00 90.47      A16S
ATOM  25010  N7  G  A1186     217.104 147.285  -2.682  1.00 90.47      A16S
ATOM  25011  C8  G  A1186     218.063 146.522  -3.129  1.00 90.47      A16S
ATOM  25012  C2* G  A1186     219.394 143.526  -1.922  1.00 46.29      A16S
ATOM  25013  O2* G  A1186     220.454 142.808  -1.327  1.00 46.29      A16S
ATOM  25014  C3* G  A1186     219.037 143.006  -3.302  1.00 46.29      A16S
ATOM  25015  O3* G  A1186     219.043 141.603  -3.315  1.00 46.29      A16S
ATOM  25016  P   G  A1187     217.839 140.814  -2.609  1.00 57.64      A16S
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ATOM  25017  O1P G   A1187     217.975 139.367  -2.928  1.00 59.39      A16S
ATOM  25018  O2P G   A1187     216.581 141.533  -2.947  1.00 59.39      A16S
ATOM  25019  O5* G   A1187     218.124 140.997  -1.052  1.00 57.64      A16S
ATOM  25020  C5* G   A1187     217.149 140.602  -0.078  1.00 57.64      A16S
ATOM  25021  C4* G   A1187     217.415 141.280   1.245  1.00 57.64      A16S
ATOM  25022  O4* G   A1187     217.481 142.718   1.065  1.00 57.64      A16S
ATOM  25023  C1* G   A1187     216.848 143.368   2.151  1.00 57.64      A16S
ATOM  25024  N9  G   A1187     215.728 144.147   1.624  1.00 59.39      A16S
ATOM  25025  C4  G   A1187     214.807 144.863   2.354  1.00 59.39      A16S
ATOM  25026  N3  G   A1187     214.776 144.972   3.695  1.00 59.39      A16S
ATOM  25027  C2  G   A1187     213.776 145.729   4.100  1.00 59.39      A16S
ATOM  25028  N2  G   A1187     213.604 145.953   5.410  1.00 59.39      A16S
ATOM  25029  N1  G   A1187     212.870 146.326   3.254  1.00 59.39      A16S
ATOM  25030  C6  G   A1187     212.880 146.219   1.871  1.00 59.39      A16S
ATOM  25031  O6  G   A1187     212.013 146.787   1.203  1.00 59.39      A16S
ATOM  25032  C5  G   A1187     213.953 145.418   1.424  1.00 59.39      A16S
ATOM  25033  N7  G   A1187     214.326 145.063   0.139  1.00 59.39      A16S
ATOM  25034  C8  G   A1187     215.381 144.312   0.304  1.00 59.39      A16S
ATOM  25035  C2* G   A1187     216.421 142.293   3.153  1.00 57.64      A16S
ATOM  25036  O2* G   A1187     217.419 142.148   4.132  1.00 57.64      A16S
ATOM  25037  C3* G   A1187     216.313 141.066   2.263  1.00 57.64      A16S
ATOM  25038  O3* G   A1187     216.510 139.849   2.966  1.00 57.64      A16S
ATOM  25039  P   A   A1188     215.288 138.817   3.107  1.00 68.05      A16S
ATOM  25040  O1P A   A1188     215.834 137.518   3.602  1.00 48.75      A16S
ATOM  25041  O2P A   A1188     214.478 138.861   1.851  1.00 48.75      A16S
ATOM  25042  O5* A   A1188     214.408 139.442   4.275  1.00 68.05      A16S
ATOM  25043  C5* A   A1188     214.906 139.483   5.621  1.00 68.05      A16S
ATOM  25044  C4* A   A1188     214.005 140.331   6.478  1.00 68.05      A16S
ATOM  25045  O4* A   A1188     214.029 141.690   6.000  1.00 68.05      A16S
ATOM  25046  C1* A   A1188     212.750 142.259   6.122  1.00 68.05      A16S
ATOM  25047  N9  A   A1188     212.309 142.578   4.776  1.00 48.75      A16S
ATOM  25048  C4  A   A1188     211.284 143.407   4.408  1.00 48.75      A16S
ATOM  25049  N3  A   A1188     210.463 144.095   5.214  1.00 48.75      A16S
ATOM  25050  C2  A   A1188     209.605 144.818   4.494  1.00 48.75      A16S
ATOM  25051  N1  A   A1188     209.483 144.918   3.165  1.00 48.75      A16S
ATOM  25052  C6  A   A1188     210.324 144.202   2.390  1.00 48.75      A16S
ATOM  25053  N6  A   A1188     210.206 144.288   1.063  1.00 48.75      A16S
ATOM  25054  C5  A   A1188     211.279 143.406   3.027  1.00 48.75      A16S
ATOM  25055  N7  A   A1188     212.276 142.583   2.535  1.00 48.75      A16S
ATOM  25056  C8  A   A1188     212.853 142.114   3.611  1.00 48.75      A16S
ATOM  25057  C2* A   A1188     211.855 141.238   6.817  1.00 68.05      A16S
ATOM  25058  O2* A   A1188     211.913 141.460   8.213  1.00 68.05      A16S
ATOM  25059  C3* A   A1188     212.544 139.941   6.456  1.00 68.05      A16S
ATOM  25060  O3* A   A1188     212.313 138.956   7.435  1.00 68.05      A16S
ATOM  25061  P   C   A1189     211.536 137.622   7.034  1.00 44.65      A16S
ATOM  25062  O1P C   A1189     211.270 136.896   8.300  1.00 65.23      A16S
ATOM  25063  O2P C   A1189     212.302 136.959   5.961  1.00 65.23      A16S
ATOM  25064  O5* C   A1189     210.174 138.177   6.423  1.00 44.65      A16S
ATOM  25065  C5* C   A1189     209.264 138.899   7.256  1.00 44.65      A16S
ATOM  25066  C4* C   A1189     208.230 139.627   6.434  1.00 44.65      A16S
ATOM  25067  O4* C   A1189     208.875 140.552   5.531  1.00 44.65      A16S
ATOM  25068  C1* C   A1189     208.016 140.799   4.437  1.00 44.65      A16S
ATOM  25069  N1  C   A1189     208.721 140.491   3.191  1.00 65.23      A16S
ATOM  25070  C6  C   A1189     209.825 139.683   3.181  1.00 65.23      A16S
ATOM  25071  C2  C   A1189     208.225 141.032   1.996  1.00 65.23      A16S
ATOM  25072  O2  C   A1189     207.216 141.767   2.031  1.00 65.23      A16S
ATOM  25073  N3  C   A1189     208.844 140.737   0.838  1.00 65.23      A16S
ATOM  25074  C4  C   A1189     209.907 139.931   0.834  1.00 65.23      A16S
ATOM  25075  N4  C   A1189     210.463 139.648  -0.345  1.00 65.23      A16S
ATOM  25076  C5  C   A1189     210.441 139.377   2.037  1.00 65.23      A16S
ATOM  25077  C2* C   A1189     206.776 139.923   4.606  1.00 44.65      A16S
ATOM  25078  O2* C   A1189     205.764 140.711   5.208  1.00 44.65      A16S
ATOM  25079  C3* C   A1189     207.284 138.837   5.541  1.00 44.65      A16S
ATOM  25080  O3* C   A1189     206.193 138.323   6.276  1.00 44.65      A16S
ATOM  25081  P   G   A1190     206.013 136.743   6.431  1.00 68.87      A16S
ATOM  25082  O1P G   A1190     204.851 136.572   7.335  1.00 90.86      A16S
ATOM  25083  O2P G   A1190     207.307 136.111   6.772  1.00 90.86      A16S
ATOM  25084  O5* G   A1190     205.610 136.268   4.971  1.00 68.87      A16S
ATOM  25085  C5* G   A1190     204.313 136.561   4.439  1.00 68.87      A16S
ATOM  25086  C4* G   A1190     203.987 135.638   3.282  1.00 68.87      A16S
ATOM  25087  O4* G   A1190     205.030 135.774   2.289  1.00 68.87      A16S
ATOM  25088  C1* G   A1190     205.180 134.557   1.594  1.00 68.87      A16S
ATOM  25089  N9  G   A1190     206.560 134.106   1.728  1.00 90.86      A16S
ATOM  25090  C4  G   A1190     207.321 133.509   0.751  1.00 90.86      A16S
ATOM  25091  N3  G   A1190     206.917 133.221  -0.502  1.00 90.86      A16S
ATOM  25092  C2  G   A1190     207.877 132.658  -1.213  1.00 90.86      A16S
ATOM  25093  N2  G   A1190     207.653 132.314  -2.486  1.00 90.86      A16S
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ATOM  25094  N1  G  A1190     209.133 132.392  -0.732  1.00 90.86      A16S
ATOM  25095  C6  G  A1190     209.574 132.680   0.555  1.00 90.86      A16S
ATOM  25096  O6  G  A1190     210.742 132.400   0.889  1.00 90.86      A16S
ATOM  25097  C5  G  A1190     208.550 133.289   1.330  1.00 90.86      A16S
ATOM  25098  N7  G  A1190     208.562 133.730   2.644  1.00 90.86      A16S
ATOM  25099  C8  G  A1190     207.361 134.202   2.837  1.00 90.86      A16S
ATOM  25100  C2* G  A1190     204.130 133.583   2.124  1.00 68.87      A16S
ATOM  25101  O2* G  A1190     202.999 133.760   1.299  1.00 68.87      A16S
ATOM  25102  C3* G  A1190     203.859 134.130   3.515  1.00 68.87      A16S
ATOM  25103  O3* G  A1190     202.557 133.832   4.081  1.00 68.87      A16S
ATOM  25104  P   A  A1191     201.520 132.781   3.389  1.00 38.64      A16S
ATOM  25105  O1P A  A1191     202.180 131.805   2.492  1.00 72.89      A16S
ATOM  25106  O2P A  A1191     200.660 132.270   4.485  1.00 72.89      A16S
ATOM  25107  O5* A  A1191     200.579 133.714   2.504  1.00 38.64      A16S
ATOM  25108  C5* A  A1191     199.956 134.859   3.094  1.00 38.64      A16S
ATOM  25109  C4* A  A1191     198.561 135.049   2.548  1.00 38.64      A16S
ATOM  25110  O4* A  A1191     198.644 135.405   1.150  1.00 38.64      A16S
ATOM  25111  C1* A  A1191     197.575 134.826   0.446  1.00 38.64      A16S
ATOM  25112  N9  A  A1191     198.168 133.976  -0.586  1.00 72.89      A16S
ATOM  25113  C4  A  A1191     197.597 133.564  -1.766  1.00 72.89      A16S
ATOM  25114  N3  A  A1191     196.375 133.858  -2.229  1.00 72.89      A16S
ATOM  25115  C2  A  A1191     196.163 133.267  -3.391  1.00 72.89      A16S
ATOM  25116  N1  A  A1191     196.964 132.479  -4.093  1.00 72.89      A16S
ATOM  25117  C6  A  A1191     198.184 132.201  -3.604  1.00 72.89      A16S
ATOM  25118  N6  A  A1191     198.985 131.403  -4.308  1.00 72.89      A16S
ATOM  25119  C5  A  A1191     198.537 132.767  -2.379  1.00 72.89      A16S
ATOM  25120  N7  A  A1191     199.688 132.684  -1.612  1.00 72.89      A16S
ATOM  25121  C8  A  A1191     199.420 133.417  -0.564  1.00 72.89      A16S
ATOM  25122  C2* A  A1191     196.674 134.091   1.460  1.00 38.64      A16S
ATOM  25123  O2* A  A1191     195.528 134.861   1.778  1.00 38.64      A16S
ATOM  25124  C3* A  A1191     197.623 133.856   2.638  1.00 38.64      A16S
ATOM  25125  O3* A  A1191     196.948 133.882   3.903  1.00 38.64      A16S
ATOM  25126  P   C  A1192     196.319 132.534   4.527  1.00 33.70      A16S
ATOM  25127  O1P C  A1192     195.649 132.914   5.800  1.00 74.47      A16S
ATOM  25128  O2P C  A1192     197.344 131.461   4.544  1.00 74.47      A16S
ATOM  25129  O5* C  A1192     195.165 132.140   3.500  1.00 33.70      A16S
ATOM  25130  C5* C  A1192     193.804 132.593   3.686  1.00 33.70      A16S
ATOM  25131  C4* C  A1192     192.830 131.615   3.059  1.00 33.70      A16S
ATOM  25132  O4* C  A1192     192.896 131.706   1.613  1.00 33.70      A16S
ATOM  25133  C1* C  A1192     192.784 130.406   1.045  1.00 33.70      A16S
ATOM  25134  N1  C  A1192     194.041 130.111   0.306  1.00 74.47      A16S
ATOM  25135  C6  C  A1192     195.244 130.561   0.775  1.00 74.47      A16S
ATOM  25136  C2  C  A1192     193.989 129.363  -0.882  1.00 74.47      A16S
ATOM  25137  O2  C  A1192     192.888 128.975  -1.312  1.00 74.47      A16S
ATOM  25138  N3  C  A1192     195.141 129.086  -1.534  1.00 74.47      A16S
ATOM  25139  C4  C  A1192     196.305 129.524  -1.053  1.00 74.47      A16S
ATOM  25140  N4  C  A1192     197.418 129.210  -1.715  1.00 74.47      A16S
ATOM  25141  C5  C  A1192     196.383 130.295   0.132  1.00 74.47      A16S
ATOM  25142  C2* C  A1192     192.502 129.428   2.189  1.00 33.70      A16S
ATOM  25143  O2* C  A1192     191.121 129.273   2.394  1.00 33.70      A16S
ATOM  25144  C3* C  A1192     193.093 130.155   3.379  1.00 33.70      A16S
ATOM  25145  O3* C  A1192     192.417 129.759   4.543  1.00 33.70      A16S
ATOM  25146  P   G  A1193     192.774 128.356   5.216  1.00 43.06      A16S
ATOM  25147  O1P G  A1193     191.687 128.017   6.170  1.00 77.03      A16S
ATOM  25148  O2P G  A1193     194.188 128.413   5.692  1.00 77.03      A16S
ATOM  25149  O5* G  A1193     192.671 127.336   4.004  1.00 43.06      A16S
ATOM  25150  C5* G  A1193     193.555 126.202   3.914  1.00 43.06      A16S
ATOM  25151  C4* G  A1193     193.692 125.764   2.473  1.00 43.06      A16S
ATOM  25152  O4* G  A1193     194.208 126.857   1.661  1.00 43.06      A16S
ATOM  25153  C1* G  A1193     195.143 126.358   0.722  1.00 43.06      A16S
ATOM  25154  N9  G  A1193     196.455 126.903   1.074  1.00 77.03      A16S
ATOM  25155  C4  G  A1193     197.667 126.606   0.488  1.00 77.03      A16S
ATOM  25156  N3  G  A1193     197.863 125.764  -0.545  1.00 77.03      A16S
ATOM  25157  C2  G  A1193     199.141 125.653  -0.855  1.00 77.03      A16S
ATOM  25158  N2  G  A1193     199.509 124.840  -1.853  1.00 77.03      A16S
ATOM  25159  N1  G  A1193     200.148 126.324  -0.207  1.00 77.03      A16S
ATOM  25160  C6  G  A1193     199.968 127.196   0.857  1.00 77.03      A16S
ATOM  25161  O6  G  A1193     200.944 127.744   1.376  1.00 77.03      A16S
ATOM  25162  C5  G  A1193     198.603 127.320   1.201  1.00 77.03      A16S
ATOM  25163  N7  G  A1193     197.997 128.065   2.199  1.00 77.03      A16S
ATOM  25164  C8  G  A1193     196.728 127.794   2.082  1.00 77.03      A16S
ATOM  25165  C2* G  A1193     195.091 124.827   0.813  1.00 43.06      A16S
ATOM  25166  O2* G  A1193     194.146 124.335  -0.119  1.00 43.06      A16S
ATOM  25167  C3* G  A1193     194.658 124.618   2.259  1.00 43.06      A16S
ATOM  25168  O3* G  A1193     194.006 123.379   2.479  1.00 43.06      A16S
ATOM  25169  P   U  A1194     194.851 122.124   3.007  1.00 58.61      A16S
ATOM  25170  O1P U  A1194     193.962 120.954   3.210  1.00 59.45      A16S
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ATOM	25171	O2P	U	A1194	195.694	122.597	4.119	1.00	59.45	A16S
ATOM	25172	O5*	U	A1194	195.781	121.772	1.768	1.00	58.61	A16S
ATOM	25173	C5*	U	A1194	195.210	121.463	0.477	1.00	58.61	A16S
ATOM	25174	C4*	U	A1194	196.279	120.934	-0.446	1.00	58.61	A16S
ATOM	25175	O4*	U	A1194	197.159	122.011	-0.873	1.00	58.61	A16S
ATOM	25176	C1*	U	A1194	198.493	121.534	-0.945	1.00	58.61	A16S
ATOM	25177	N1	U	A1194	199.343	122.351	-0.056	1.00	59.45	A16S
ATOM	25178	C6	U	A1194	198.873	122.819	1.151	1.00	59.45	A16S
ATOM	25179	C2	U	A1194	200.646	122.628	-0.457	1.00	59.45	A16S
ATOM	25180	O2	U	A1194	201.117	122.254	-1.516	1.00	59.45	A16S
ATOM	25181	N3	U	A1194	201.381	123.365	0.434	1.00	59.45	A16S
ATOM	25182	C4	U	A1194	200.971	123.848	1.652	1.00	59.45	A16S
ATOM	25183	O4	U	A1194	201.761	124.487	2.345	1.00	59.45	A16S
ATOM	25184	C5	U	A1194	199.623	123.535	1.993	1.00	59.45	A16S
ATOM	25185	C2*	U	A1194	198.477	120.040	-0.582	1.00	58.61	A16S
ATOM	25186	O2*	U	A1194	198.447	119.233	-1.743	1.00	58.61	A16S
ATOM	25187	C3*	U	A1194	197.189	119.918	0.214	1.00	58.61	A16S
ATOM	25188	O3*	U	A1194	196.638	118.614	0.171	1.00	58.61	A16S
ATOM	25189	P	C	A1195	197.067	117.545	1.288	1.00	53.52	A16S
ATOM	25190	O1P	C	A1195	196.257	116.314	1.128	1.00	81.89	A16S
ATOM	25191	O2P	C	A1195	197.096	118.237	2.599	1.00	81.89	A16S
ATOM	25192	O5*	C	A1195	198.559	117.196	0.896	1.00	53.52	A16S
ATOM	25193	C5*	C	A1195	198.854	116.590	-0.366	1.00	53.52	A16S
ATOM	25194	C4*	C	A1195	200.294	116.214	-0.395	1.00	53.52	A16S
ATOM	25195	O4*	C	A1195	201.058	117.434	-0.376	1.00	53.52	A16S
ATOM	25196	C1*	C	A1195	202.124	117.309	0.537	1.00	53.52	A16S
ATOM	25197	N1	C	A1195	202.093	118.486	1.448	1.00	81.89	A16S
ATOM	25198	C6	C	A1195	200.932	119.183	1.653	1.00	81.89	A16S
ATOM	25199	C2	C	A1195	203.286	118.911	2.072	1.00	81.89	A16S
ATOM	25200	O2	C	A1195	204.326	118.244	1.917	1.00	81.89	A16S
ATOM	25201	N3	C	A1195	203.270	120.035	2.828	1.00	81.89	A16S
ATOM	25202	C4	C	A1195	202.138	120.717	2.989	1.00	81.89	A16S
ATOM	25203	N4	C	A1195	202.180	121.826	3.721	1.00	81.89	A16S
ATOM	25204	C5	C	A1195	200.913	120.294	2.403	1.00	81.89	A16S
ATOM	25205	C2*	C	A1195	202.118	115.878	1.108	1.00	53.52	A16S
ATOM	25206	O2*	C	A1195	203.052	115.096	0.392	1.00	53.52	A16S
ATOM	25207	C3*	C	A1195	200.687	115.425	0.842	1.00	53.52	A16S
ATOM	25208	O3*	C	A1195	200.522	114.051	0.475	1.00	53.52	A16S
ATOM	25209	P	U	A1196	200.959	112.861	1.463	1.00	62.51	A16S
ATOM	25210	O1P	U	A1196	202.279	113.172	2.044	1.00	131.75	A16S
ATOM	25211	O2P	U	A1196	200.790	111.615	0.684	1.00	131.75	A16S
ATOM	25212	O5*	U	A1196	199.860	112.828	2.619	1.00	62.51	A16S
ATOM	25213	C5*	U	A1196	199.385	114.042	3.222	1.00	62.51	A16S
ATOM	25214	C4*	U	A1196	199.116	113.850	4.702	1.00	62.51	A16S
ATOM	25215	O4*	U	A1196	197.817	113.249	4.953	1.00	62.51	A16S
ATOM	25216	C1*	U	A1196	197.919	112.432	6.092	1.00	62.51	A16S
ATOM	25217	N1	U	A1196	196.770	111.507	6.124	1.00	131.75	A16S
ATOM	25218	C6	U	A1196	196.855	110.201	5.686	1.00	131.75	A16S
ATOM	25219	C2	U	A1196	195.578	112.006	6.633	1.00	131.75	A16S
ATOM	25220	O2	U	A1196	195.444	113.162	7.002	1.00	131.75	A16S
ATOM	25221	N3	U	A1196	194.544	111.105	6.686	1.00	131.75	A16S
ATOM	25222	C4	U	A1196	194.567	109.785	6.281	1.00	131.75	A16S
ATOM	25223	O4	U	A1196	193.548	109.092	6.406	1.00	131.75	A16S
ATOM	25224	C5	U	A1196	195.823	109.347	5.745	1.00	131.75	A16S
ATOM	25225	C2*	U	A1196	199.345	111.874	6.043	1.00	62.51	A16S
ATOM	25226	O2*	U	A1196	199.756	111.437	7.326	1.00	62.51	A16S
ATOM	25227	C3*	U	A1196	200.134	113.097	5.556	1.00	62.51	A16S
ATOM	25228	O3*	U	A1196	200.482	113.926	6.656	1.00	62.51	A16S
ATOM	25229	P	G	A1197	201.997	114.442	6.810	1.00	31.02	A16S
ATOM	25230	O1P	G	A1197	202.876	113.280	7.056	1.00	62.23	A16S
ATOM	25231	O2P	G	A1197	201.972	115.575	7.780	1.00	62.23	A16S
ATOM	25232	O5*	G	A1197	202.350	115.049	5.384	1.00	31.02	A16S
ATOM	25233	C5*	G	A1197	203.074	114.278	4.416	1.00	31.02	A16S
ATOM	25234	C4*	G	A1197	204.460	114.850	4.222	1.00	31.02	A16S
ATOM	25235	O4*	G	A1197	204.367	116.212	3.743	1.00	31.02	A16S
ATOM	25236	C1*	G	A1197	205.359	116.994	4.360	1.00	31.02	A16S
ATOM	25237	N9	G	A1197	204.689	118.055	5.102	1.00	62.23	A16S
ATOM	25238	C4	G	A1197	205.282	119.160	5.657	1.00	62.23	A16S
ATOM	25239	N3	G	A1197	206.594	119.458	5.614	1.00	62.23	A16S
ATOM	25240	C2	G	A1197	206.860	120.576	6.249	1.00	62.23	A16S
ATOM	25241	N2	G	A1197	208.109	121.021	6.309	1.00	62.23	A16S
ATOM	25242	N1	G	A1197	205.919	121.345	6.874	1.00	62.23	A16S
ATOM	25243	C6	G	A1197	204.561	121.062	6.926	1.00	62.23	A16S
ATOM	25244	O6	G	A1197	203.794	121.833	7.507	1.00	62.23	A16S
ATOM	25245	C5	G	A1197	204.258	119.862	6.256	1.00	62.23	A16S
ATOM	25246	N7	G	A1197	203.045	119.212	6.080	1.00	62.23	A16S
ATOM	25247	C8	G	A1197	203.347	118.148	5.390	1.00	62.23	A16S

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ATOM  25248  C2* G   A1197     206.222 116.078   5.234  1.00 31.02      A16S
ATOM  25249  O2* G   A1197     207.345 115.675   4.497  1.00 31.02      A16S
ATOM  25250  C3* G   A1197     205.295 114.903   5.488  1.00 31.02      A16S
ATOM  25251  O3* G   A1197     206.039 113.696   5.583  1.00 31.02      A16S
ATOM  25252  P   G   A1198     206.557 113.191   7.008  1.00 38.23      A16S
ATOM  25253  O1P G   A1198     207.462 112.023   6.817  1.00 76.67      A16S
ATOM  25254  O2P G   A1198     205.358 113.042   7.860  1.00 76.67      A16S
ATOM  25255  O5* G   A1198     207.419 114.421   7.546  1.00 38.23      A16S
ATOM  25256  C5* G   A1198     208.754 114.657   7.060  1.00 38.23      A16S
ATOM  25257  C4* G   A1198     209.493 115.616   7.965  1.00 38.23      A16S
ATOM  25258  O4* G   A1198     209.108 116.992   7.719  1.00 38.23      A16S
ATOM  25259  C1* G   A1198     209.193 117.728   8.927  1.00 38.23      A16S
ATOM  25260  N9  G   A1198     207.882 118.301   9.221  1.00 76.67      A16S
ATOM  25261  C4  G   A1198     207.632 119.431   9.956  1.00 76.67      A16S
ATOM  25262  N3  G   A1198     208.559 120.235  10.506  1.00 76.67      A16S
ATOM  25263  C2  G   A1198     208.011 121.230  11.173  1.00 76.67      A16S
ATOM  25264  N2  G   A1198     208.788 122.143  11.765  1.00 76.67      A16S
ATOM  25265  N1  G   A1198     206.662 121.413  11.305  1.00 76.67      A16S
ATOM  25266  C6  G   A1198     205.688 120.591  10.754  1.00 76.67      A16S
ATOM  25267  O6  G   A1198     204.485 120.834  10.954  1.00 76.67      A16S
ATOM  25268  C5  G   A1198     206.263 119.532  10.017  1.00 76.67      A16S
ATOM  25269  N7  G   A1198     205.662 118.505   9.309  1.00 76.67      A16S
ATOM  25270  C8  G   A1198     206.659 117.804   8.850  1.00 76.67      A16S
ATOM  25271  C2* G   A1198     209.669 116.768  10.022  1.00 38.23      A16S
ATOM  25272  O2* G   A1198     211.063 116.902  10.171  1.00 38.23      A16S
ATOM  25273  C3* G   A1198     209.285 115.415   9.447  1.00 38.23      A16S
ATOM  25274  O3* G   A1198     210.121 114.386   9.906  1.00 38.23      A16S
ATOM  25275  P   U   A1199     209.656 113.490  11.141  1.00 39.03      A16S
ATOM  25276  O1P U   A1199     210.541 112.297  11.238  1.00 44.77      A16S
ATOM  25277  O2P U   A1199     208.188 113.313  10.991  1.00 44.77      A16S
ATOM  25278  O5* U   A1199     209.945 114.410  12.408  1.00 39.03      A16S
ATOM  25279  C5* U   A1199     211.294 114.798  12.739  1.00 39.03      A16S
ATOM  25280  C4* U   A1199     211.295 115.903  13.773  1.00 39.03      A16S
ATOM  25281  O4* U   A1199     210.603 117.057  13.243  1.00 39.03      A16S
ATOM  25282  C1* U   A1199     209.902 117.708  14.277  1.00 39.03      A16S
ATOM  25283  N1  U   A1199     208.489 117.807  13.885  1.00 44.77      A16S
ATOM  25284  C6  U   A1199     207.721 116.698  13.656  1.00 44.77      A16S
ATOM  25285  C2  U   A1199     207.958 119.070  13.749  1.00 44.77      A16S
ATOM  25286  O2  U   A1199     208.606 120.080  13.952  1.00 44.77      A16S
ATOM  25287  N3  U   A1199     206.640 119.112  13.372  1.00 44.77      A16S
ATOM  25288  C4  U   A1199     205.818 118.044  13.133  1.00 44.77      A16S
ATOM  25289  O4  U   A1199     204.639 118.241  12.845  1.00 44.77      A16S
ATOM  25290  C5  U   A1199     206.440 116.773  13.296  1.00 44.77      A16S
ATOM  25291  C2* U   A1199     210.155 116.947  15.580  1.00 39.03      A16S
ATOM  25292  O2* U   A1199     211.160 117.605  16.320  1.00 39.03      A16S
ATOM  25293  C3* U   A1199     210.582 115.580  15.068  1.00 39.03      A16S
ATOM  25294  O3* U   A1199     211.459 114.924  15.960  1.00 39.03      A16S
ATOM  25295  P   C   A1200     211.040 113.502  16.552  1.00 57.61      A16S
ATOM  25296  O1P C   A1200     212.141 112.911  17.342  1.00 57.39      A16S
ATOM  25297  O2P C   A1200     210.466 112.721  15.444  1.00 57.39      A16S
ATOM  25298  O5* C   A1200     209.857 113.869  17.539  1.00 57.61      A16S
ATOM  25299  C5* C   A1200     209.420 112.911  18.495  1.00 57.61      A16S
ATOM  25300  C4* C   A1200     209.086 113.586  19.796  1.00 57.61      A16S
ATOM  25301  O4* C   A1200     207.761 114.168  19.696  1.00 57.61      A16S
ATOM  25302  C1* C   A1200     206.899 113.562  20.637  1.00 57.61      A16S
ATOM  25303  N1  C   A1200     205.639 113.219  19.965  1.00 57.39      A16S
ATOM  25304  C6  C   A1200     205.626 112.823  18.662  1.00 57.39      A16S
ATOM  25305  C2  C   A1200     204.459 113.282  20.689  1.00 57.39      A16S
ATOM  25306  O2  C   A1200     204.493 113.660  21.873  1.00 57.39      A16S
ATOM  25307  N3  C   A1200     203.307 112.930  20.093  1.00 57.39      A16S
ATOM  25308  C4  C   A1200     203.307 112.533  18.829  1.00 57.39      A16S
ATOM  25309  N4  C   A1200     202.144 112.187  18.288  1.00 57.39      A16S
ATOM  25310  C5  C   A1200     204.493 112.472  18.064  1.00 57.39      A16S
ATOM  25311  C2* C   A1200     207.578 112.288  21.131  1.00 57.61      A16S
ATOM  25312  O2* C   A1200     207.223 112.025  22.475  1.00 57.61      A16S
ATOM  25313  C3* C   A1200     209.052 112.614  20.963  1.00 57.61      A16S
ATOM  25314  O3* C   A1200     209.587 113.232  22.110  1.00 57.61      A16S
ATOM  25315  P   A   A1201     210.994 112.722  22.691  1.00 48.79      A16S
ATOM  25316  O1P A   A1201     211.119 111.260  22.399  1.00 61.56      A16S
ATOM  25317  O2P A   A1201     211.060 113.192  24.102  1.00 61.56      A16S
ATOM  25318  O5* A   A1201     212.074 113.539  21.837  1.00 48.79      A16S
ATOM  25319  C5* A   A1201     212.161 114.975  21.972  1.00 48.79      A16S
ATOM  25320  C4* A   A1201     213.153 115.580  20.992  1.00 48.79      A16S
ATOM  25321  O4* A   A1201     214.490 115.120  21.287  1.00 48.79      A16S
ATOM  25322  C1* A   A1201     215.094 114.577  20.132  1.00 48.79      A16S
ATOM  25323  N9  A   A1201     215.602 113.253  20.489  1.00 61.56      A16S
ATOM  25324  C4  A   A1201     216.813 112.708  20.135  1.00 61.56      A16S
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ATOM 25325 N3 A A1201 217.786 113.285 19.409 1.00 61.56 A16S
ATOM 25326 C2 A A1201 218.807 112.446 19.250 1.00 61.56 A16S
ATOM 25327 N1 A A1201 218.954 111.191 19.705 1.00 61.56 A16S
ATOM 25328 C6 A A1201 217.961 110.649 20.439 1.00 61.56 A16S
ATOM 25329 N6 A A1201 218.111 109.410 20.899 1.00 61.56 A16S
ATOM 25330 C5 A A1201 216.825 111.431 20.676 1.00 61.56 A16S
ATOM 25331 N7 A A1201 215.651 111.179 21.369 1.00 61.56 A16S
ATOM 25332 C8 A A1201 214.963 112.286 21.233 1.00 61.56 A16S
ATOM 25333 C2* A A1201 214.027 114.427 19.055 1.00 48.79 A16S
ATOM 25334 O2* A A1201 214.574 114.673 17.773 1.00 48.79 A16S
ATOM 25335 C3* A A1201 212.931 115.400 19.496 1.00 48.79 A16S
ATOM 25336 O3* A A1201 212.802 116.651 18.799 1.00 48.79 A16S
ATOM 25337 P G A1202 214.035 117.667 18.715 1.00 50.07 A16S
ATOM 25338 O1P G A1202 213.643 118.796 17.837 1.00 61.47 A16S
ATOM 25339 O2P G A1202 215.289 116.917 18.422 1.00 61.47 A16S
ATOM 25340 O5* G A1202 214.094 118.247 20.194 1.00 50.07 A16S
ATOM 25341 C5* G A1202 215.343 118.384 20.886 1.00 50.07 A16S
ATOM 25342 C4* G A1202 215.277 119.541 21.842 1.00 50.07 A16S
ATOM 25343 O4* G A1202 215.131 120.779 21.096 1.00 50.07 A16S
ATOM 25344 C1* G A1202 214.327 121.682 21.829 1.00 50.07 A16S
ATOM 25345 N9 G A1202 213.162 122.031 21.023 1.00 61.47 A16S
ATOM 25346 C4 G A1202 212.380 123.163 21.141 1.00 61.47 A16S
ATOM 25347 N3 G A1202 212.542 124.153 22.041 1.00 61.47 A16S
ATOM 25348 C2 G A1202 211.650 125.121 21.882 1.00 61.47 A16S
ATOM 25349 N2 G A1202 211.676 126.196 22.676 1.00 61.47 A16S
ATOM 25350 N1 G A1202 210.668 125.114 20.929 1.00 61.47 A16S
ATOM 25351 C6 G A1202 210.470 124.108 19.997 1.00 61.47 A16S
ATOM 25352 O6 G A1202 209.542 124.207 19.179 1.00 61.47 A16S
ATOM 25353 C5 G A1202 211.433 123.059 20.148 1.00 61.47 A16S
ATOM 25354 N7 G A1202 211.601 121.882 19.434 1.00 61.47 A16S
ATOM 25355 C8 G A1202 212.632 121.305 19.992 1.00 61.47 A16S
ATOM 25356 C2* G A1202 213.953 121.001 23.147 1.00 50.07 A16S
ATOM 25357 O2* G A1202 214.871 121.379 24.157 1.00 50.07 A16S
ATOM 25358 C3* G A1202 214.092 119.528 22.792 1.00 50.07 A16S
ATOM 25359 O3* G A1202 214.312 118.712 23.944 1.00 50.07 A16S
ATOM 25360 P C A1203 213.049 118.156 24.775 1.00 54.01 A16S
ATOM 25361 O1P C A1203 213.523 117.743 26.125 1.00 82.65 A16S
ATOM 25362 O2P C A1203 212.312 117.189 23.941 1.00 82.65 A16S
ATOM 25363 O5* C A1203 212.130 119.444 24.937 1.00 54.01 A16S
ATOM 25364 C5* C A1203 212.575 120.544 25.743 1.00 54.01 A16S
ATOM 25365 C4* C A1203 211.540 121.640 25.780 1.00 54.01 A16S
ATOM 25366 O4* C A1203 211.447 122.307 24.493 1.00 54.01 A16S
ATOM 25367 C1* C A1203 210.103 122.698 24.258 1.00 54.01 A16S
ATOM 25368 N1 C A1203 209.616 121.952 23.080 1.00 82.65 A16S
ATOM 25369 C6 C A1203 210.142 120.728 22.770 1.00 82.65 A16S
ATOM 25370 C2 C A1203 208.594 122.503 22.287 1.00 82.65 A16S
ATOM 25371 O2 C A1203 208.130 123.614 22.582 1.00 82.65 A16S
ATOM 25372 N3 C A1203 208.138 121.806 21.225 1.00 82.65 A16S
ATOM 25373 C4 C A1203 208.657 120.609 20.940 1.00 82.65 A16S
ATOM 25374 N4 C A1203 208.177 119.950 19.883 1.00 82.65 A16S
ATOM 25375 C5 C A1203 209.694 120.029 21.725 1.00 82.65 A16S
ATOM 25376 C2* C A1203 209.300 122.346 25.518 1.00 54.01 A16S
ATOM 25377 O2* C A1203 209.234 123.462 26.391 1.00 54.01 A16S
ATOM 25378 C3* C A1203 210.123 121.198 26.086 1.00 54.01 A16S
ATOM 25379 O3* C A1203 209.925 120.955 27.467 1.00 54.01 A16S
ATOM 25380 P A A1204 209.047 119.689 27.923 1.00 70.37 A16S
ATOM 25381 O1P A A1204 209.202 119.563 29.390 1.00 78.89 A16S
ATOM 25382 O2P A A1204 209.365 118.515 27.063 1.00 78.89 A16S
ATOM 25383 O5* A A1204 207.570 120.192 27.600 1.00 70.37 A16S
ATOM 25384 C5* A A1204 207.148 121.506 28.018 1.00 70.37 A16S
ATOM 25385 C4* A A1204 205.898 121.931 27.284 1.00 70.37 A16S
ATOM 25386 O4* A A1204 206.197 122.167 25.882 1.00 70.37 A16S
ATOM 25387 C1* A A1204 205.095 121.758 25.082 1.00 70.37 A16S
ATOM 25388 N9 A A1204 205.545 120.670 24.200 1.00 78.89 A16S
ATOM 25389 C4 A A1204 204.782 119.995 23.274 1.00 78.89 A16S
ATOM 25390 N3 A A1204 203.494 120.216 22.964 1.00 78.89 A16S
ATOM 25391 C2 A A1204 203.076 119.341 22.059 1.00 78.89 A16S
ATOM 25392 N1 A A1204 203.747 118.346 21.466 1.00 78.89 A16S
ATOM 25393 C6 A A1204 205.041 118.150 21.795 1.00 78.89 A16S
ATOM 25394 N6 A A1204 205.708 117.149 21.208 1.00 78.89 A16S
ATOM 25395 C5 A A1204 205.606 119.016 22.746 1.00 78.89 A16S
ATOM 25396 N7 A A1204 206.876 119.089 23.301 1.00 78.89 A16S
ATOM 25397 C8 A A1204 206.792 120.086 24.147 1.00 78.89 A16S
ATOM 25398 C2* A A1204 203.971 121.326 26.037 1.00 70.37 A16S
ATOM 25399 O2* A A1204 203.085 122.410 26.238 1.00 70.37 A16S
ATOM 25400 C3* A A1204 204.753 120.934 27.290 1.00 70.37 A16S
ATOM 25401 O3* A A1204 203.990 121.031 28.489 1.00 70.37 A16S

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ATOM  25402  P    U    A1205     203.629 119.697  29.324  1.00 68.93      A16S
ATOM  25403  O1P  U    A1205     202.948 120.153  30.563  1.00 71.37      A16S
ATOM  25404  O2P  U    A1205     204.817 118.807  29.433  1.00 71.37      A16S
ATOM  25405  O5*  U    A1205     202.539 118.965  28.418  1.00 68.93      A16S
ATOM  25406  C5*  U    A1205     201.256 119.575  28.197  1.00 68.93      A16S
ATOM  25407  C4*  U    A1205     200.558 118.953  27.016  1.00 68.93      A16S
ATOM  25408  O4*  U    A1205     201.356 119.161  25.828  1.00 68.93      A16S
ATOM  25409  C1*  U    A1205     201.179 118.069  24.940  1.00 68.93      A16S
ATOM  25410  N1   U    A1205     202.475 117.398  24.720  1.00 71.37      A16S
ATOM  25411  C6   U    A1205     203.589 117.688  25.474  1.00 71.37      A16S
ATOM  25412  C2   U    A1205     202.532 116.439  23.726  1.00 71.37      A16S
ATOM  25413  O2   U    A1205     201.586 116.172  23.014  1.00 71.37      A16S
ATOM  25414  N3   U    A1205     203.738 115.805  23.594  1.00 71.37      A16S
ATOM  25415  C4   U    A1205     204.878 116.029  24.326  1.00 71.37      A16S
ATOM  25416  O4   U    A1205     205.876 115.331  24.122  1.00 71.37      A16S
ATOM  25417  C5   U    A1205     204.756 117.055  25.315  1.00 71.37      A16S
ATOM  25418  C2*  U    A1205     200.158 117.127  25.575  1.00 68.93      A16S
ATOM  25419  O2*  U    A1205     198.873 117.441  25.072  1.00 68.93      A16S
ATOM  25420  C3*  U    A1205     200.316 117.456  27.051  1.00 68.93      A16S
ATOM  25421  O3*  U    A1205     199.159 117.101  27.798  1.00 68.93      A16S
ATOM  25422  P    G    A1206     199.082 115.658  28.515  1.00 80.19      A16S
ATOM  25423  O1P  G    A1206     198.478 115.851  29.855  1.00 80.79      A16S
ATOM  25424  O2P  G    A1206     200.404 114.991  28.401  1.00 80.79      A16S
ATOM  25425  O5*  G    A1206     198.043 114.843  27.627  1.00 80.19      A16S
ATOM  25426  C5*  G    A1206     196.676 115.291  27.477  1.00 80.19      A16S
ATOM  25427  C4*  G    A1206     195.923 114.364  26.551  1.00 80.19      A16S
ATOM  25428  O4*  G    A1206     196.369 114.569  25.187  1.00 80.19      A16S
ATOM  25429  C1*  G    A1206     196.462 113.316  24.516  1.00 80.19      A16S
ATOM  25430  N9   G    A1206     197.866 113.098  24.157  1.00 80.79      A16S
ATOM  25431  C4   G    A1206     198.377 112.109  23.342  1.00 80.79      A16S
ATOM  25432  N3   G    A1206     197.666 111.164  22.690  1.00 80.79      A16S
ATOM  25433  C2   G    A1206     198.448 110.348  22.004  1.00 80.79      A16S
ATOM  25434  N2   G    A1206     197.914 109.353  21.286  1.00 80.79      A16S
ATOM  25435  N1   G    A1206     199.812 110.447  21.968  1.00 80.79      A16S
ATOM  25436  C6   G    A1206     200.560 111.411  22.632  1.00 80.79      A16S
ATOM  25437  O6   G    A1206     201.791 111.408  22.543  1.00 80.79      A16S
ATOM  25438  C5   G    A1206     199.741 112.293  23.360  1.00 80.79      A16S
ATOM  25439  N7   G    A1206     200.083 113.383  24.144  1.00 80.79      A16S
ATOM  25440  C8   G    A1206     198.945 113.831  24.591  1.00 80.79      A16S
ATOM  25441  C2*  G    A1206     195.919 112.243  25.467  1.00 80.19      A16S
ATOM  25442  O2*  G    A1206     194.549 111.987  25.213  1.00 80.19      A16S
ATOM  25443  C3*  G    A1206     196.159 112.889  26.823  1.00 80.19      A16S
ATOM  25444  O3*  G    A1206     195.307 112.386  27.832  1.00 80.19      A16S
ATOM  25445  P    G    A1207     195.861 111.269  28.839  1.00 76.69      A16S
ATOM  25446  O1P  G    A1207     194.790 110.988  29.822  1.00 92.87      A16S
ATOM  25447  O2P  G    A1207     197.198 111.707  29.316  1.00 92.87      A16S
ATOM  25448  O5*  G    A1207     196.037 109.977  27.922  1.00 76.69      A16S
ATOM  25449  C5*  G    A1207     194.926 109.448  27.170  1.00 76.69      A16S
ATOM  25450  C4*  G    A1207     195.393 108.362  26.226  1.00 76.69      A16S
ATOM  25451  O4*  G    A1207     196.147 108.934  25.124  1.00 76.69      A16S
ATOM  25452  C1*  G    A1207     197.149 108.015  24.708  1.00 76.69      A16S
ATOM  25453  N9   G    A1207     198.461 108.656  24.778  1.00 92.87      A16S
ATOM  25454  C4   G    A1207     199.612 108.208  24.173  1.00 92.87      A16S
ATOM  25455  N3   G    A1207     199.723 107.107  23.403  1.00 92.87      A16S
ATOM  25456  C2   G    A1207     200.956 106.931  22.968  1.00 92.87      A16S
ATOM  25457  N2   G    A1207     201.239 105.881  22.189  1.00 92.87      A16S
ATOM  25458  N1   G    A1207     202.001 107.768  23.263  1.00 92.87      A16S
ATOM  25459  C6   G    A1207     201.912 108.908  24.052  1.00 92.87      A16S
ATOM  25460  O6   G    A1207     202.918 109.601  24.250  1.00 92.87      A16S
ATOM  25461  C5   G    A1207     200.589 109.107  24.531  1.00 92.87      A16S
ATOM  25462  N7   G    A1207     200.066 110.106  25.341  1.00 92.87      A16S
ATOM  25463  C8   G    A1207     198.803 109.800  25.459  1.00 92.87      A16S
ATOM  25464  C2*  G    A1207     197.059 106.776  25.602  1.00 76.69      A16S
ATOM  25465  O2*  G    A1207     196.340 105.752  24.945  1.00 76.69      A16S
ATOM  25466  C3*  G    A1207     196.323 107.317  26.821  1.00 76.69      A16S
ATOM  25467  O3*  G    A1207     195.626 106.284  27.495  1.00 76.69      A16S
ATOM  25468  P    C    A1208     196.387 105.433  28.622  1.00 75.33      A16S
ATOM  25469  O1P  C    A1208     195.424 104.473  29.220  1.00 82.46      A16S
ATOM  25470  O2P  C    A1208     197.103 106.405  29.495  1.00 82.46      A16S
ATOM  25471  O5*  C    A1208     197.464 104.579  27.821  1.00 75.33      A16S
ATOM  25472  C5*  C    A1208     197.067 103.489  26.978  1.00 75.33      A16S
ATOM  25473  C4*  C    A1208     198.286 102.835  26.378  1.00 75.33      A16S
ATOM  25474  O4*  C    A1208     199.013 103.805  25.580  1.00 75.33      A16S
ATOM  25475  C1*  C    A1208     200.406 103.558  25.678  1.00 75.33      A16S
ATOM  25476  N1   C    A1208     201.082 104.783  26.158  1.00 82.46      A16S
ATOM  25477  C6   C    A1208     200.378 105.932  26.378  1.00 82.46      A16S
ATOM  25478  C2   C    A1208     202.469 104.758  26.371  1.00 82.46      A16S
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ATOM  25479  O2  C   A1208     203.087 103.702  26.200  1.00 82.46      A16S
ATOM  25480  N3  C   A1208     203.096 105.880  26.762  1.00 82.46      A16S
ATOM  25481  C4  C   A1208     202.401 106.997  26.955  1.00 82.46      A16S
ATOM  25482  N4  C   A1208     203.070 108.089  27.323  1.00 82.46      A16S
ATOM  25483  C5  C   A1208     200.992 107.047  26.775  1.00 82.46      A16S
ATOM  25484  C2* C   A1208     200.603 102.334  26.573  1.00 75.33      A16S
ATOM  25485  O2* C   A1208     200.750 101.195  25.752  1.00 75.33      A16S
ATOM  25486  C3* C   A1208     199.309 102.318  27.375  1.00 75.33      A16S
ATOM  25487  O3* C   A1208     198.980 101.009  27.801  1.00 75.33      A16S
ATOM  25488  P   C   A1209     199.456 100.500  29.246  1.00 87.41      A16S
ATOM  25489  O1P C   A1209     198.856  99.147  29.415  1.00 75.35      A16S
ATOM  25490  O2P C   A1209     199.173 101.568  30.245  1.00 75.35      A16S
ATOM  25491  O5* C   A1209     201.039 100.351  29.113  1.00 87.41      A16S
ATOM  25492  C5* C   A1209     201.613  99.310  28.297  1.00 87.41      A16S
ATOM  25493  C4* C   A1209     203.115  99.474  28.185  1.00 87.41      A16S
ATOM  25494  O4* C   A1209     203.430 100.720  27.515  1.00 87.41      A16S
ATOM  25495  C1* C   A1209     204.666 101.217  27.996  1.00 87.41      A16S
ATOM  25496  N1  C   A1209     204.467 102.560  28.561  1.00 75.35      A16S
ATOM  25497  C6  C   A1209     203.255 102.957  29.049  1.00 75.35      A16S
ATOM  25498  C2  C   A1209     205.558 103.425  28.604  1.00 75.35      A16S
ATOM  25499  O2  C   A1209     206.650 103.046  28.128  1.00 75.35      A16S
ATOM  25500  N3  C   A1209     205.406 104.651  29.158  1.00 75.35      A16S
ATOM  25501  C4  C   A1209     204.225 105.022  29.646  1.00 75.35      A16S
ATOM  25502  N4  C   A1209     204.129 106.235  30.198  1.00 75.35      A16S
ATOM  25503  C5  C   A1209     203.092 104.167  29.594  1.00 75.35      A16S
ATOM  25504  C2* C   A1209     205.193 100.240  29.042  1.00 87.41      A16S
ATOM  25505  O2* C   A1209     206.120  99.384  28.414  1.00 87.41      A16S
ATOM  25506  C3* C   A1209     203.914  99.534  29.477  1.00 87.41      A16S
ATOM  25507  O3* C   A1209     204.172  98.242  30.012  1.00 87.41      A16S
ATOM  25508  P   C   A1210     204.461  98.079  31.588  1.00 82.65      A16S
ATOM  25509  O1P C   A1210     204.477  96.612  31.874  1.00 82.67      A16S
ATOM  25510  O2P C   A1210     203.548  98.978  32.356  1.00 82.67      A16S
ATOM  25511  O5* C   A1210     205.927  98.662  31.771  1.00 82.65      A16S
ATOM  25512  C5* C   A1210     207.045  98.033  31.136  1.00 82.65      A16S
ATOM  25513  C4* C   A1210     208.313  98.671  31.606  1.00 82.65      A16S
ATOM  25514  O4* C   A1210     208.344 100.043  31.160  1.00 82.65      A16S
ATOM  25515  C1* C   A1210     208.951 100.849  32.146  1.00 82.65      A16S
ATOM  25516  N1  C   A1210     208.066 101.986  32.429  1.00 82.67      A16S
ATOM  25517  C6  C   A1210     206.725 101.916  32.181  1.00 82.67      A16S
ATOM  25518  C2  C   A1210     208.625 103.151  32.941  1.00 82.67      A16S
ATOM  25519  O2  C   A1210     209.839 103.176  33.180  1.00 82.67      A16S
ATOM  25520  N3  C   A1210     207.836 104.220  33.167  1.00 82.67      A16S
ATOM  25521  C4  C   A1210     206.532 104.149  32.911  1.00 82.67      A16S
ATOM  25522  N4  C   A1210     205.790 105.230  33.147  1.00 82.67      A16S
ATOM  25523  C5  C   A1210     205.929 102.966  32.402  1.00 82.67      A16S
ATOM  25524  C2* C   A1210     209.310  99.966  33.341  1.00 82.65      A16S
ATOM  25525  O2* C   A1210     210.693  99.686  33.282  1.00 82.65      A16S
ATOM  25526  C3* C   A1210     208.413  98.753  33.110  1.00 82.65      A16S
ATOM  25527  O3* C   A1210     208.931  97.531  33.607  1.00 82.65      A16S
ATOM  25528  P   U   A1211     208.651  97.122  35.128  1.00 87.20      A16S
ATOM  25529  O1P U   A1211     209.098  95.717  35.319  1.00 97.26      A16S
ATOM  25530  O2P U   A1211     207.244  97.500  35.432  1.00 97.26      A16S
ATOM  25531  O5* U   A1211     209.630  98.082  35.938  1.00 87.20      A16S
ATOM  25532  C5* U   A1211     209.398  98.396  37.310  1.00 87.20      A16S
ATOM  25533  C4* U   A1211     209.816  99.813  37.585  1.00 87.20      A16S
ATOM  25534  O4* U   A1211     209.017 100.721  36.797  1.00 87.20      A16S
ATOM  25535  C1* U   A1211     209.090 101.990  37.400  1.00 87.20      A16S
ATOM  25536  N1  U   A1211     207.898 102.798  37.084  1.00 97.26      A16S
ATOM  25537  C6  U   A1211     206.793 102.274  36.447  1.00 97.26      A16S
ATOM  25538  C2  U   A1211     207.938 104.147  37.437  1.00 97.26      A16S
ATOM  25539  O2  U   A1211     208.880 104.654  38.025  1.00 97.26      A16S
ATOM  25540  N3  U   A1211     206.835 104.882  37.077  1.00 97.26      A16S
ATOM  25541  C4  U   A1211     205.713 104.432  36.422  1.00 97.26      A16S
ATOM  25542  O4  U   A1211     204.819 105.239  36.131  1.00 97.26      A16S
ATOM  25543  C5  U   A1211     205.728 103.025  36.111  1.00 97.26      A16S
ATOM  25544  C2* U   A1211     209.437 101.800  38.881  1.00 87.20      A16S
ATOM  25545  O2* U   A1211     210.622 102.510  39.173  1.00 87.20      A16S
ATOM  25546  C3* U   A1211     209.589 100.278  39.012  1.00 87.20      A16S
ATOM  25547  O3* U   A1211     210.744  99.975  39.804  1.00 87.20      A16S
ATOM  25548  P   U   A1212     210.744  98.706  40.795  1.00116.76      A16S
ATOM  25549  O1P U   A1212     209.339  98.390  41.165  1.00186.27      A16S
ATOM  25550  O2P U   A1212     211.736  98.992  41.863  1.00186.27      A16S
ATOM  25551  O5* U   A1212     211.290  97.510  39.897  1.00116.76      A16S
ATOM  25552  C5* U   A1212     212.219  96.545  40.423  1.00116.76      A16S
ATOM  25553  C4* U   A1212     213.631  97.034  40.217  1.00116.76      A16S
ATOM  25554  O4* U   A1212     214.058  97.821  41.359  1.00116.76      A16S
ATOM  25555  C1* U   A1212     215.463  97.712  41.507  1.00116.76      A16S
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ATOM  25556  N1  U   A1212     215.803  97.478  42.923  1.00186.27      A16S
ATOM  25557  C6  U   A1212     216.450  96.329  43.336  1.00186.27      A16S
ATOM  25558  C2  U   A1212     215.469  98.468  43.840  1.00186.27      A16S
ATOM  25559  O2  U   A1212     214.884  99.495  43.532  1.00186.27      A16S
ATOM  25560  N3  U   A1212     215.848  98.211  45.134  1.00186.27      A16S
ATOM  25561  C4  U   A1212     216.508  97.097  45.602  1.00186.27      A16S
ATOM  25562  O4  U   A1212     216.812  97.034  46.792  1.00186.27      A16S
ATOM  25563  C5  U   A1212     216.804  96.114  44.606  1.00186.27      A16S
ATOM  25564  C2* U   A1212     215.979  96.692  40.488  1.00116.76      A16S
ATOM  25565  O2* U   A1212     216.599  97.402  39.437  1.00116.76      A16S
ATOM  25566  C3* U   A1212     214.696  95.960  40.083  1.00116.76      A16S
ATOM  25567  O3* U   A1212     214.674  95.490  38.733  1.00116.76      A16S
ATOM  25568  P   A   A1213     215.971  94.792  38.090  1.00178.18      A16S
ATOM  25569  O1P A   A1213     215.459  93.866  37.049  1.00 90.70      A16S
ATOM  25570  O2P A   A1213     216.835  94.266  39.180  1.00 90.70      A16S
ATOM  25571  O5* A   A1213     216.738  96.008  37.394  1.00178.18      A16S
ATOM  25572  C5* A   A1213     216.523  96.367  36.003  1.00178.18      A16S
ATOM  25573  C4* A   A1213     215.268  97.203  35.853  1.00178.18      A16S
ATOM  25574  O4* A   A1213     215.081  98.048  37.003  1.00178.18      A16S
ATOM  25575  C1* A   A1213     214.225  99.103  36.640  1.00178.18      A16S
ATOM  25576  N9  A   A1213     214.527 100.281  37.452  1.00 90.70      A16S
ATOM  25577  C4  A   A1213     213.888 101.497  37.399  1.00 90.70      A16S
ATOM  25578  N3  A   A1213     212.922 101.875  36.546  1.00 90.70      A16S
ATOM  25579  C2  A   A1213     212.522 103.112  36.812  1.00 90.70      A16S
ATOM  25580  N1  A   A1213     212.941 103.951  37.766  1.00 90.70      A16S
ATOM  25581  C6  A   A1213     213.912 103.539  38.607  1.00 90.70      A16S
ATOM  25582  N6  A   A1213     214.325 104.372  39.565  1.00 90.70      A16S
ATOM  25583  C5  A   A1213     214.426 102.250  38.425  1.00 90.70      A16S
ATOM  25584  N7  A   A1213     215.414 101.541  39.088  1.00 90.70      A16S
ATOM  25585  C8  A   A1213     215.445 100.389  38.466  1.00 90.70      A16S
ATOM  25586  C2* A   A1213     214.214  99.232  35.113  1.00178.18      A16S
ATOM  25587  O2* A   A1213     212.902  98.968  34.663  1.00178.18      A16S
ATOM  25588  C3* A   A1213     215.222  98.163  34.671  1.00178.18      A16S
ATOM  25589  O3* A   A1213     214.728  97.474  33.523  1.00178.18      A16S
ATOM  25590  P   C   A1214     215.327  97.789  32.064  1.00 81.36      A16S
ATOM  25591  O1P C   A1214     214.503  97.008  31.112  1.00 67.80      A16S
ATOM  25592  O2P C   A1214     216.800  97.589  32.103  1.00 67.80      A16S
ATOM  25593  O5* C   A1214     214.987  99.326  31.808  1.00 81.36      A16S
ATOM  25594  C5* C   A1214     215.830 100.161  30.982  1.00 81.36      A16S
ATOM  25595  C4* C   A1214     214.999 101.216  30.295  1.00 81.36      A16S
ATOM  25596  O4* C   A1214     214.200 100.588  29.278  1.00 81.36      A16S
ATOM  25597  C1* C   A1214     213.005 101.318  29.110  1.00 81.36      A16S
ATOM  25598  N1  C   A1214     211.896 100.374  28.895  1.00 67.80      A16S
ATOM  25599  C6  C   A1214     212.125  99.026  28.922  1.00 67.80      A16S
ATOM  25600  C2  C   A1214     210.599 100.870  28.625  1.00 67.80      A16S
ATOM  25601  O2  C   A1214     210.394 102.095  28.647  1.00 67.80      A16S
ATOM  25602  N3  C   A1214     209.605  99.991  28.353  1.00 67.80      A16S
ATOM  25603  C4  C   A1214     209.854  98.674  28.361  1.00 67.80      A16S
ATOM  25604  N4  C   A1214     208.848  97.841  28.075  1.00 67.80      A16S
ATOM  25605  C5  C   A1214     211.147  98.151  28.661  1.00 67.80      A16S
ATOM  25606  C2* C   A1214     212.874 102.333  30.252  1.00 81.36      A16S
ATOM  25607  O2* C   A1214     213.024 103.652  29.751  1.00 81.36      A16S
ATOM  25608  C3* C   A1214     213.998 101.922  31.202  1.00 81.36      A16S
ATOM  25609  O3* C   A1214     214.515 103.112  31.815  1.00 81.36      A16S
ATOM  25610  P   G   A1215     215.922 103.744  31.335  1.00 78.44      A16S
ATOM  25611  O1P G   A1215     215.736 104.253  29.952  1.00 70.26      A16S
ATOM  25612  O2P G   A1215     217.012 102.786  31.626  1.00 70.26      A16S
ATOM  25613  O5* G   A1215     216.103 105.025  32.267  1.00 78.44      A16S
ATOM  25614  C5* G   A1215     215.076 106.047  32.328  1.00 78.44      A16S
ATOM  25615  C4* G   A1215     214.875 106.518  33.758  1.00 78.44      A16S
ATOM  25616  O4* G   A1215     214.444 105.404  34.581  1.00 78.44      A16S
ATOM  25617  C1* G   A1215     215.025 105.502  35.869  1.00 78.44      A16S
ATOM  25618  N9  G   A1215     215.814 104.292  36.109  1.00 70.26      A16S
ATOM  25619  C4  G   A1215     216.730 104.092  37.116  1.00 70.26      A16S
ATOM  25620  N3  G   A1215     217.073 104.988  38.064  1.00 70.26      A16S
ATOM  25621  C2  G   A1215     217.960 104.493  38.911  1.00 70.26      A16S
ATOM  25622  N2  G   A1215     218.403 105.248  39.924  1.00 70.26      A16S
ATOM  25623  N1  G   A1215     218.477 103.222  38.827  1.00 70.26      A16S
ATOM  25624  C6  G   A1215     218.142 102.285  37.858  1.00 70.26      A16S
ATOM  25625  O6  G   A1215     218.667 101.167  37.873  1.00 70.26      A16S
ATOM  25626  C5  G   A1215     217.184 102.798  36.948  1.00 70.26      A16S
ATOM  25627  N7  G   A1215     216.572 102.197  35.856  1.00 70.26      A16S
ATOM  25628  C8  G   A1215     215.777 103.120  35.386  1.00 70.26      A16S
ATOM  25629  C2* G   A1215     215.807 106.816  35.927  1.00 78.44      A16S
ATOM  25630  O2* G   A1215     214.974 107.816  36.488  1.00 78.44      A16S
ATOM  25631  C3* G   A1215     216.114 107.053  34.453  1.00 78.44      A16S
ATOM  25632  O3* G   A1215     216.306 108.423  34.139  1.00 78.44      A16S
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ATOM  25633  P    G    A1216     217.769 108.941  33.731  1.00 72.77      A16S
ATOM  25634  O1P  G    A1216     217.662 110.405  33.474  1.00 80.01      A16S
ATOM  25635  O2P  G    A1216     218.313 108.046  32.681  1.00 80.01      A16S
ATOM  25636  O5*  G    A1216     218.620 108.722  35.057  1.00 72.77      A16S
ATOM  25637  C5*  G    A1216     218.343 109.507  36.228  1.00 72.77      A16S
ATOM  25638  C4*  G    A1216     219.335 109.207  37.319  1.00 72.77      A16S
ATOM  25639  O4*  G    A1216     219.054 107.919  37.918  1.00 72.77      A16S
ATOM  25640  C1*  G    A1216     220.267 107.327  38.340  1.00 72.77      A16S
ATOM  25641  N9   G    A1216     220.411 106.025  37.697  1.00 80.01      A16S
ATOM  25642  C4   G    A1216     221.301 105.043  38.061  1.00 80.01      A16S
ATOM  25643  N3   G    A1216     222.218 105.132  39.045  1.00 80.01      A16S
ATOM  25644  C2   G    A1216     222.913 104.023  39.169  1.00 80.01      A16S
ATOM  25645  N2   G    A1216     223.879 103.944  40.090  1.00 80.01      A16S
ATOM  25646  N1   G    A1216     222.717 102.910  38.397  1.00 80.01      A16S
ATOM  25647  C6   G    A1216     221.776 102.798  37.380  1.00 80.01      A16S
ATOM  25648  O6   G    A1216     221.671 101.743  36.752  1.00 80.01      A16S
ATOM  25649  C5   G    A1216     221.038 103.983  37.226  1.00 80.01      A16S
ATOM  25650  N7   G    A1216     220.025 104.300  36.331  1.00 80.01      A16S
ATOM  25651  C8   G    A1216     219.689 105.523  36.642  1.00 80.01      A16S
ATOM  25652  C2*  G    A1216     221.408 108.280  37.998  1.00 72.77      A16S
ATOM  25653  O2*  G    A1216     221.716 109.027  39.155  1.00 72.77      A16S
ATOM  25654  C3*  G    A1216     220.785 109.116  36.887  1.00 72.77      A16S
ATOM  25655  O3*  G    A1216     221.386 110.392  36.741  1.00 72.77      A16S
ATOM  25656  P    C    A1217     222.638 110.560  35.749  1.00 70.60      A16S
ATOM  25657  O1P  C    A1217     222.733 112.003  35.393  1.00 71.21      A16S
ATOM  25658  O2P  C    A1217     222.518 109.536  34.677  1.00 71.21      A16S
ATOM  25659  O5*  C    A1217     223.887 110.151  36.641  1.00 70.60      A16S
ATOM  25660  C5*  C    A1217     224.117 110.807  37.888  1.00 70.60      A16S
ATOM  25661  C4*  C    A1217     225.157 110.072  38.687  1.00 70.60      A16S
ATOM  25662  O4*  C    A1217     224.669 108.770  39.091  1.00 70.60      A16S
ATOM  25663  C1*  C    A1217     225.751 107.858  39.147  1.00 70.60      A16S
ATOM  25664  N1   C    A1217     225.473 106.718  38.257  1.00 71.21      A16S
ATOM  25665  C6   C    A1217     224.547 106.800  37.250  1.00 71.21      A16S
ATOM  25666  C2   C    A1217     226.188 105.539  38.461  1.00 71.21      A16S
ATOM  25667  O2   C    A1217     227.012 105.495  39.387  1.00 71.21      A16S
ATOM  25668  N3   C    A1217     225.966 104.480  37.651  1.00 71.21      A16S
ATOM  25669  C4   C    A1217     225.067 104.567  36.670  1.00 71.21      A16S
ATOM  25670  N4   C    A1217     224.886 103.496  35.896  1.00 71.21      A16S
ATOM  25671  C5   C    A1217     224.314 105.757  36.442  1.00 71.21      A16S
ATOM  25672  C2*  C    A1217     227.015 108.612  38.745  1.00 70.60      A16S
ATOM  25673  O2*  C    A1217     227.664 109.032  39.921  1.00 70.60      A16S
ATOM  25674  C3*  C    A1217     226.439 109.775  37.951  1.00 70.60      A16S
ATOM  25675  O3*  C    A1217     227.273 110.908  37.940  1.00 70.60      A16S
ATOM  25676  P    C    A1218     228.218 111.165  36.674  1.00 72.80      A16S
ATOM  25677  O1P  C    A1218     228.939 112.445  36.925  1.00 92.56      A16S
ATOM  25678  O2P  C    A1218     227.392 111.019  35.449  1.00 92.56      A16S
ATOM  25679  O5*  C    A1218     229.258 109.960  36.748  1.00 72.80      A16S
ATOM  25680  C5*  C    A1218     230.045 109.782  37.928  1.00 72.80      A16S
ATOM  25681  C4*  C    A1218     230.895 108.548  37.829  1.00 72.80      A16S
ATOM  25682  O4*  C    A1218     230.083 107.353  37.830  1.00 72.80      A16S
ATOM  25683  C1*  C    A1218     230.807 106.305  37.221  1.00 72.80      A16S
ATOM  25684  N1   C    A1218     229.940 105.600  36.263  1.00 92.56      A16S
ATOM  25685  C6   C    A1218     228.965 106.259  35.565  1.00 92.56      A16S
ATOM  25686  C2   C    A1218     230.139 104.227  36.072  1.00 92.56      A16S
ATOM  25687  O2   C    A1218     231.018 103.652  36.727  1.00 92.56      A16S
ATOM  25688  N3   C    A1218     229.370 103.562  35.183  1.00 92.56      A16S
ATOM  25689  C4   C    A1218     228.427 104.212  34.500  1.00 92.56      A16S
ATOM  25690  N4   C    A1218     227.695 103.513  33.628  1.00 92.56      A16S
ATOM  25691  C5   C    A1218     228.192 105.610  34.681  1.00 92.56      A16S
ATOM  25692  C2*  C    A1218     232.074 106.903  36.605  1.00 72.80      A16S
ATOM  25693  O2*  C    A1218     233.146 106.592  37.462  1.00 72.80      A16S
ATOM  25694  C3*  C    A1218     231.752 108.397  36.593  1.00 72.80      A16S
ATOM  25695  O3*  C    A1218     232.913 109.212  36.702  1.00 72.80      A16S
ATOM  25696  P    U    A1219     233.659 109.719  35.374  1.00 56.18      A16S
ATOM  25697  O1P  U    A1219     234.599 110.786  35.798  1.00 77.65      A16S
ATOM  25698  O2P  U    A1219     232.640 110.021  34.334  1.00 77.65      A16S
ATOM  25699  O5*  U    A1219     234.510 108.439  34.946  1.00 56.18      A16S
ATOM  25700  C5*  U    A1219     235.625 108.023  35.744  1.00 56.18      A16S
ATOM  25701  C4*  U    A1219     236.069 106.630  35.372  1.00 56.18      A16S
ATOM  25702  O4*  U    A1219     234.981 105.701  35.599  1.00 56.18      A16S
ATOM  25703  C1*  U    A1219     235.044 104.642  34.657  1.00 56.18      A16S
ATOM  25704  N1   U    A1219     233.832 104.695  33.824  1.00 77.65      A16S
ATOM  25705  C6   U    A1219     233.216 105.898  33.524  1.00 77.65      A16S
ATOM  25706  C2   U    A1219     233.328 103.501  33.340  1.00 77.65      A16S
ATOM  25707  O2   U    A1219     233.846 102.422  33.568  1.00 77.65      A16S
ATOM  25708  N3   U    A1219     232.195 103.620  32.573  1.00 77.65      A16S
ATOM  25709  C4   U    A1219     231.533 104.786  32.239  1.00 77.65      A16S
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ATOM	25710	O4	U	A1219	230.534	104.730	31.521	1.00	77.65	A16S
ATOM	25711	C5	U	A1219	232.119	105.980	32.768	1.00	77.65	A16S
ATOM	25712	C2*	U	A1219	236.291	104.866	33.806	1.00	56.18	A16S
ATOM	25713	O2*	U	A1219	237.379	104.120	34.326	1.00	56.18	A16S
ATOM	25714	C3*	U	A1219	236.462	106.375	33.928	1.00	56.18	A16S
ATOM	25715	O3*	U	A1219	237.765	106.814	33.586	1.00	56.18	A16S
ATOM	25716	P	G	A1220	238.017	107.431	32.124	1.00	78.85	A16S
ATOM	25717	O1P	G	A1220	239.456	107.812	32.041	1.00	55.06	A16S
ATOM	25718	O2P	G	A1220	236.967	108.460	31.858	1.00	55.06	A16S
ATOM	25719	O5*	G	A1220	237.783	106.184	31.163	1.00	78.85	A16S
ATOM	25720	C5*	G	A1220	238.711	105.098	31.183	1.00	78.85	A16S
ATOM	25721	C4*	G	A1220	238.252	103.981	30.285	1.00	78.85	A16S
ATOM	25722	O4*	G	A1220	237.063	103.355	30.830	1.00	78.85	A16S
ATOM	25723	C1*	G	A1220	236.291	102.808	29.773	1.00	78.85	A16S
ATOM	25724	N9	G	A1220	235.000	103.484	29.720	1.00	55.06	A16S
ATOM	25725	C4	G	A1220	233.898	103.025	29.048	1.00	55.06	A16S
ATOM	25726	N3	G	A1220	233.824	101.868	28.355	1.00	55.06	A16S
ATOM	25727	C2	G	A1220	232.651	101.715	27.778	1.00	55.06	A16S
ATOM	25728	N2	G	A1220	232.430	100.644	27.016	1.00	55.06	A16S
ATOM	25729	N1	G	A1220	231.618	102.608	27.898	1.00	55.06	A16S
ATOM	25730	C6	G	A1220	231.667	103.798	28.618	1.00	55.06	A16S
ATOM	25731	O6	G	A1220	230.672	104.520	28.677	1.00	55.06	A16S
ATOM	25732	C5	G	A1220	232.937	103.994	29.214	1.00	55.06	A16S
ATOM	25733	N7	G	A1220	233.423	105.046	29.979	1.00	55.06	A16S
ATOM	25734	C8	G	A1220	234.647	104.695	30.269	1.00	55.06	A16S
ATOM	25735	C2*	G	A1220	237.029	103.104	28.472	1.00	78.85	A16S
ATOM	25736	O2*	G	A1220	237.826	101.995	28.103	1.00	78.85	A16S
ATOM	25737	C3*	G	A1220	237.843	104.326	28.866	1.00	78.85	A16S
ATOM	25738	O3*	G	A1220	238.915	104.537	27.979	1.00	78.85	A16S
ATOM	25739	P	G	A1221	238.659	105.373	26.635	1.00	75.25	A16S
ATOM	25740	O1P	G	A1221	239.992	105.532	26.019	1.00	59.25	A16S
ATOM	25741	O2P	G	A1221	237.835	106.577	26.924	1.00	59.25	A16S
ATOM	25742	O5*	G	A1221	237.787	104.385	25.743	1.00	75.25	A16S
ATOM	25743	C5*	G	A1221	238.301	103.093	25.379	1.00	75.25	A16S
ATOM	25744	C4*	G	A1221	237.233	102.269	24.700	1.00	75.25	A16S
ATOM	25745	O4*	G	A1221	236.147	102.003	25.631	1.00	75.25	A16S
ATOM	25746	C1*	G	A1221	234.908	102.017	24.939	1.00	75.25	A16S
ATOM	25747	N9	G	A1221	234.177	103.209	25.359	1.00	59.25	A16S
ATOM	25748	C4	G	A1221	232.878	103.535	25.044	1.00	59.25	A16S
ATOM	25749	N3	G	A1221	232.024	102.783	24.321	1.00	59.25	A16S
ATOM	25750	C2	G	A1221	230.859	103.382	24.151	1.00	59.25	A16S
ATOM	25751	N2	G	A1221	229.895	102.774	23.447	1.00	59.25	A16S
ATOM	25752	N1	G	A1221	230.554	104.623	24.656	1.00	59.25	A16S
ATOM	25753	C6	G	A1221	231.416	105.416	25.405	1.00	59.25	A16S
ATOM	25754	O6	G	A1221	231.045	106.530	25.806	1.00	59.25	A16S
ATOM	25755	C5	G	A1221	232.670	104.781	25.595	1.00	59.25	A16S
ATOM	25756	N7	G	A1221	233.803	105.217	26.266	1.00	59.25	A16S
ATOM	25757	C8	G	A1221	234.666	104.252	26.105	1.00	59.25	A16S
ATOM	25758	C2*	G	A1221	235.233	102.142	23.449	1.00	75.25	A16S
ATOM	25759	O2*	G	A1221	235.356	100.865	22.842	1.00	75.25	A16S
ATOM	25760	C3*	G	A1221	236.548	102.903	23.500	1.00	75.25	A16S
ATOM	25761	O3*	G	A1221	237.288	102.801	22.296	1.00	75.25	A16S
ATOM	25762	P	G	A1222	237.082	103.907	21.150	1.00	61.82	A16S
ATOM	25763	O1P	G	A1222	237.820	103.424	19.958	1.00	71.33	A16S
ATOM	25764	O2P	G	A1222	237.388	105.242	21.706	1.00	71.33	A16S
ATOM	25765	O5*	G	A1222	235.520	103.851	20.837	1.00	61.82	A16S
ATOM	25766	C5*	G	A1222	234.909	102.631	20.371	1.00	61.82	A16S
ATOM	25767	C4*	G	A1222	233.458	102.857	20.012	1.00	61.82	A16S
ATOM	25768	O4*	G	A1222	232.687	103.166	21.204	1.00	61.82	A16S
ATOM	25769	C1*	G	A1222	231.570	103.975	20.853	1.00	61.82	A16S
ATOM	25770	N9	G	A1222	231.598	105.211	21.629	1.00	71.33	A16S
ATOM	25771	C4	G	A1222	230.580	106.130	21.713	1.00	71.33	A16S
ATOM	25772	N3	G	A1222	229.371	106.024	21.125	1.00	71.33	A16S
ATOM	25773	C2	G	A1222	228.614	107.078	21.362	1.00	71.33	A16S
ATOM	25774	N2	G	A1222	227.375	107.133	20.853	1.00	71.33	A16S
ATOM	25775	N1	G	A1222	229.012	108.157	22.117	1.00	71.33	A16S
ATOM	25776	C6	G	A1222	230.250	108.288	22.739	1.00	71.33	A16S
ATOM	25777	O6	G	A1222	230.507	109.308	23.413	1.00	71.33	A16S
ATOM	25778	C5	G	A1222	231.074	107.155	22.489	1.00	71.33	A16S
ATOM	25779	N7	G	A1222	232.368	106.875	22.906	1.00	71.33	A16S
ATOM	25780	C8	G	A1222	232.633	105.710	22.378	1.00	71.33	A16S
ATOM	25781	C2*	G	A1222	231.679	104.293	19.362	1.00	61.82	A16S
ATOM	25782	O2*	G	A1222	230.799	103.489	18.601	1.00	61.82	A16S
ATOM	25783	C3*	G	A1222	233.153	104.023	19.096	1.00	61.82	A16S
ATOM	25784	O3*	G	A1222	233.392	103.781	17.737	1.00	61.82	A16S
ATOM	25785	P	C	A1223	233.732	105.023	16.794	1.00	44.92	A16S
ATOM	25786	O1P	C	A1223	233.964	104.505	15.432	1.00	74.35	A16S

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ATOM  25787  O2P C   A1223     234.793 105.802  17.480  1.00 74.35      A16S
ATOM  25788  O5* C   A1223     232.397 105.897  16.786  1.00 44.92      A16S
ATOM  25789  C5* C   A1223     231.155 105.318  16.359  1.00 44.92      A16S
ATOM  25790  C4* C   A1223     230.041 106.341  16.371  1.00 44.92      A16S
ATOM  25791  O4* C   A1223     229.731 106.751  17.723  1.00 44.92      A16S
ATOM  25792  C1* C   A1223     229.207 108.072  17.702  1.00 44.92      A16S
ATOM  25793  N1   C   A1223     229.982 108.928  18.615  1.00 74.35      A16S
ATOM  25794  C6   C   A1223     231.281 108.640  18.927  1.00 74.35      A16S
ATOM  25795  C2   C   A1223     229.358 110.061  19.161  1.00 74.35      A16S
ATOM  25796  O2   C   A1223     228.176 110.313  18.857  1.00 74.35      A16S
ATOM  25797  N3   C   A1223     230.056 110.852  19.999  1.00 74.35      A16S
ATOM  25798  C4   C   A1223     231.320 110.559  20.297  1.00 74.35      A16S
ATOM  25799  N4   C   A1223     231.962 111.370  21.130  1.00 74.35      A16S
ATOM  25800  C5   C   A1223     231.980 109.422  19.754  1.00 74.35      A16S
ATOM  25801  C2* C   A1223     229.270 108.593  16.269  1.00 44.92      A16S
ATOM  25802  O2* C   A1223     227.997 108.562  15.660  1.00 44.92      A16S
ATOM  25803  C3* C   A1223     230.277 107.645  15.630  1.00 44.92      A16S
ATOM  25804  O3* C   A1223     230.027 107.546  14.241  1.00 44.92      A16S
ATOM  25805  P    G   A1224     230.478 108.741  13.280  1.00 48.63      A16S
ATOM  25806  O1P G   A1224     230.029 110.016  13.879  1.00 70.96      A16S
ATOM  25807  O2P G   A1224     230.049 108.391  11.914  1.00 70.96      A16S
ATOM  25808  O5* G   A1224     232.071 108.721  13.359  1.00 48.63      A16S
ATOM  25809  C5* G   A1224     232.817 107.495  13.582  1.00 48.63      A16S
ATOM  25810  C4* G   A1224     234.303 107.752  13.402  1.00 48.63      A16S
ATOM  25811  O4* G   A1224     234.707 108.791  14.316  1.00 48.63      A16S
ATOM  25812  C1* G   A1224     236.094 108.706  14.516  1.00 48.63      A16S
ATOM  25813  N9   G   A1224     236.443 109.377  15.767  1.00 70.96      A16S
ATOM  25814  C4   G   A1224     237.078 110.590  15.852  1.00 70.96      A16S
ATOM  25815  N3   G   A1224     237.490 111.333  14.810  1.00 70.96      A16S
ATOM  25816  C2   G   A1224     238.048 112.463  15.193  1.00 70.96      A16S
ATOM  25817  N2   G   A1224     238.478 113.330  14.272  1.00 70.96      A16S
ATOM  25818  N1   G   A1224     238.213 112.831  16.498  1.00 70.96      A16S
ATOM  25819  C6   G   A1224     237.802 112.087  17.594  1.00 70.96      A16S
ATOM  25820  O6   G   A1224     237.999 112.522  18.734  1.00 70.96      A16S
ATOM  25821  C5   G   A1224     237.176 110.865  17.194  1.00 70.96      A16S
ATOM  25822  N7   G   A1224     236.616 109.843  17.947  1.00 70.96      A16S
ATOM  25823  C8   G   A1224     236.199 108.978  17.058  1.00 70.96      A16S
ATOM  25824  C2* G   A1224     236.554 107.275  14.217  1.00 48.63      A16S
ATOM  25825  O2* G   A1224     237.629 107.328  13.293  1.00 48.63      A16S
ATOM  25826  C3* G   A1224     235.249 106.603  13.731  1.00 48.63      A16S
ATOM  25827  O3* G   A1224     235.305 105.606  12.663  1.00 48.63      A16S
ATOM  25828  P    A   A1225     235.976 105.930  11.210  1.00 58.61      A16S
ATOM  25829  O1P A   A1225     236.418 107.347  11.136  1.00 64.25      A16S
ATOM  25830  O2P A   A1225     235.052 105.423  10.167  1.00 64.25      A16S
ATOM  25831  O5* A   A1225     237.265 104.989  11.204  1.00 58.61      A16S
ATOM  25832  C5* A   A1225     237.223 103.666  10.628  1.00 58.61      A16S
ATOM  25833  C4* A   A1225     236.905 102.633  11.683  1.00 58.61      A16S
ATOM  25834  O4* A   A1225     235.609 102.900  12.252  1.00 58.61      A16S
ATOM  25835  C1* A   A1225     235.029 101.685  12.679  1.00 58.61      A16S
ATOM  25836  N9   A   A1225     233.591 101.725  12.411  1.00 64.25      A16S
ATOM  25837  C4   A   A1225     232.892 101.167  11.368  1.00 64.25      A16S
ATOM  25838  N3   A   A1225     233.374 100.414  10.369  1.00 64.25      A16S
ATOM  25839  C2   A   A1225     232.404 100.089   9.521  1.00 64.25      A16S
ATOM  25840  N1   A   A1225     231.110 100.414   9.550  1.00 64.25      A16S
ATOM  25841  C6   A   A1225     230.663 101.177  10.566  1.00 64.25      A16S
ATOM  25842  N6   A   A1225     229.377 101.530  10.587  1.00 64.25      A16S
ATOM  25843  C5   A   A1225     231.584 101.570  11.538  1.00 64.25      A16S
ATOM  25844  N7   A   A1225     231.450 102.329  12.685  1.00 64.25      A16S
ATOM  25845  C8   A   A1225     232.663 102.383  13.168  1.00 64.25      A16S
ATOM  25846  C2* A   A1225     235.812 100.521  12.068  1.00 58.61      A16S
ATOM  25847  O2* A   A1225     236.437  99.786  13.095  1.00 58.61      A16S
ATOM  25848  C3* A   A1225     236.811 101.215  11.141  1.00 58.61      A16S
ATOM  25849  O3* A   A1225     238.060 100.576  11.365  1.00 58.61      A16S
ATOM  25850  P    C   A1226     239.186 100.588  10.240  1.00 63.81      A16S
ATOM  25851  O1P C   A1226     240.096  99.479  10.552  1.00 31.32      A16S
ATOM  25852  O2P C   A1226     239.726 101.949  10.096  1.00 31.32      A16S
ATOM  25853  O5* C   A1226     238.401 100.179   8.930  1.00 63.81      A16S
ATOM  25854  C5* C   A1226     239.005 100.327   7.646  1.00 63.81      A16S
ATOM  25855  C4* C   A1226     238.199  99.579   6.633  1.00 63.81      A16S
ATOM  25856  O4* C   A1226     236.844  99.538   7.112  1.00 63.81      A16S
ATOM  25857  C1* C   A1226     235.965  99.721   6.038  1.00 63.81      A16S
ATOM  25858  N1   C   A1226     235.020 100.778   6.411  1.00 31.32      A16S
ATOM  25859  C6   C   A1226     235.445 101.970   6.925  1.00 31.32      A16S
ATOM  25860  C2   C   A1226     233.653 100.512   6.284  1.00 31.32      A16S
ATOM  25861  O2   C   A1226     233.300  99.431   5.747  1.00 31.32      A16S
ATOM  25862  N3   C   A1226     232.750 101.427   6.744  1.00 31.32      A16S
ATOM  25863  C4   C   A1226     233.178 102.561   7.292  1.00 31.32      A16S
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ATOM  25864  N4  C   A1226     232.269 103.400   7.767  1.00 31.32      A16S
ATOM  25865  C5  C   A1226     234.565 102.876   7.382  1.00 31.32      A16S
ATOM  25866  C2* C   A1226     236.763  99.844   4.736  1.00 63.81      A16S
ATOM  25867  O2* C   A1226     236.732  98.594   4.089  1.00 63.81      A16S
ATOM  25868  C3* C   A1226     238.154 100.197   5.242  1.00 63.81      A16S
ATOM  25869  O3* C   A1226     239.244  99.740   4.404  1.00 63.81      A16S
ATOM  25870  P   A   A1227     239.545  98.150   4.202  1.00 51.42      A16S
ATOM  25871  O1P A   A1227     238.995  97.357   5.335  1.00 65.00      A16S
ATOM  25872  O2P A   A1227     240.991  98.022   3.864  1.00 65.00      A16S
ATOM  25873  O5* A   A1227     238.748  97.733   2.888  1.00 51.42      A16S
ATOM  25874  C5* A   A1227     238.024  96.488   2.830  1.00 51.42      A16S
ATOM  25875  C4* A   A1227     237.791  96.065   1.396  1.00 51.42      A16S
ATOM  25876  O4* A   A1227     236.643  95.170   1.414  1.00 51.42      A16S
ATOM  25877  C1* A   A1227     235.738  95.514   0.381  1.00 51.42      A16S
ATOM  25878  N9  A   A1227     234.598  96.207   0.997  1.00 65.00      A16S
ATOM  25879  C4  A   A1227     233.369  95.676   1.253  1.00 65.00      A16S
ATOM  25880  N3  A   A1227     232.974  94.421   1.017  1.00 65.00      A16S
ATOM  25881  C2  A   A1227     231.702  94.262   1.379  1.00 65.00      A16S
ATOM  25882  N1  A   A1227     230.845  95.157   1.904  1.00 65.00      A16S
ATOM  25883  C6  A   A1227     231.280  96.418   2.118  1.00 65.00      A16S
ATOM  25884  N6  A   A1227     230.419  97.317   2.612  1.00 65.00      A16S
ATOM  25885  C5  A   A1227     232.613  96.705   1.793  1.00 65.00      A16S
ATOM  25886  N7  A   A1227     233.361  97.863   1.896  1.00 65.00      A16S
ATOM  25887  C8  A   A1227     234.527  97.520   1.419  1.00 65.00      A16S
ATOM  25888  C2* A   A1227     236.495  96.450  -0.559  1.00 51.42      A16S
ATOM  25889  O2* A   A1227     237.219  95.737  -1.543  1.00 51.42      A16S
ATOM  25890  C3* A   A1227     237.394  97.172   0.427  1.00 51.42      A16S
ATOM  25891  O3* A   A1227     238.483  97.799  -0.222  1.00 51.42      A16S
ATOM  25892  P   C   A1228     238.231  99.169  -1.023  1.00 39.84      A16S
ATOM  25893  O1P C   A1228     239.410  99.403  -1.900  1.00 59.00      A16S
ATOM  25894  O2P C   A1228     237.813 100.218  -0.059  1.00 59.00      A16S
ATOM  25895  O5* C   A1228     236.985  98.829  -1.952  1.00 39.84      A16S
ATOM  25896  C5* C   A1228     236.133  99.864  -2.446  1.00 39.84      A16S
ATOM  25897  C4* C   A1228     234.731  99.342  -2.628  1.00 39.84      A16S
ATOM  25898  O4* C   A1228     234.227  98.835  -1.366  1.00 39.84      A16S
ATOM  25899  C1* C   A1228     232.876  99.231  -1.186  1.00 39.84      A16S
ATOM  25900  N1  C   A1228     232.818 100.151  -0.021  1.00 59.00      A16S
ATOM  25901  C6  C   A1228     233.945 100.793   0.414  1.00 59.00      A16S
ATOM  25902  C2  C   A1228     231.591 100.374   0.627  1.00 59.00      A16S
ATOM  25903  O2  C   A1228     230.575  99.772   0.236  1.00 59.00      A16S
ATOM  25904  N3  C   A1228     231.544 101.243   1.666  1.00 59.00      A16S
ATOM  25905  C4  C   A1228     232.652 101.868   2.066  1.00 59.00      A16S
ATOM  25906  N4  C   A1228     232.559 102.715   3.084  1.00 59.00      A16S
ATOM  25907  C5  C   A1228     233.904 101.652   1.438  1.00 59.00      A16S
ATOM  25908  C2* C   A1228     232.432  99.907  -2.488  1.00 39.84      A16S
ATOM  25909  O2* C   A1228     231.813  98.980  -3.360  1.00 39.84      A16S
ATOM  25910  C3* C   A1228     233.754 100.419  -3.026  1.00 39.84      A16S
ATOM  25911  O3* C   A1228     233.745 100.584  -4.413  1.00 39.84      A16S
ATOM  25912  P   A   A1229     233.647 102.053  -5.012  1.00 36.76      A16S
ATOM  25913  O1P A   A1229     233.999 101.984  -6.461  1.00 43.64      A16S
ATOM  25914  O2P A   A1229     234.413 102.944  -4.116  1.00 43.64      A16S
ATOM  25915  O5* A   A1229     232.113 102.438  -4.809  1.00 36.76      A16S
ATOM  25916  C5* A   A1229     231.077 101.906  -5.663  1.00 36.76      A16S
ATOM  25917  C4* A   A1229     229.768 102.619  -5.403  1.00 36.76      A16S
ATOM  25918  O4* A   A1229     229.238 102.228  -4.111  1.00 36.76      A16S
ATOM  25919  C1* A   A1229     228.686 103.357  -3.447  1.00 36.76      A16S
ATOM  25920  N9  A   A1229     229.498 103.633  -2.255  1.00 43.64      A16S
ATOM  25921  C4  A   A1229     229.199 104.508  -1.237  1.00 43.64      A16S
ATOM  25922  N3  A   A1229     228.083 105.239  -1.090  1.00 43.64      A16S
ATOM  25923  C2  A   A1229     228.163 105.990   0.004  1.00 43.64      A16S
ATOM  25924  N1  A   A1229     229.165 106.101   0.890  1.00 43.64      A16S
ATOM  25925  C6  A   A1229     230.276 105.363   0.701  1.00 43.64      A16S
ATOM  25926  N6  A   A1229     231.288 105.498   1.554  1.00 43.64      A16S
ATOM  25927  C5  A   A1229     230.304 104.503  -0.400  1.00 43.64      A16S
ATOM  25928  N7  A   A1229     231.261 103.605  -0.850  1.00 43.64      A16S
ATOM  25929  C8  A   A1229     230.736 103.112  -1.945  1.00 43.64      A16S
ATOM  25930  C2* A   A1229     228.738 104.529  -4.425  1.00 36.76      A16S
ATOM  25931  O2* A   A1229     227.513 104.631  -5.103  1.00 36.76      A16S
ATOM  25932  C3* A   A1229     229.893 104.127  -5.331  1.00 36.76      A16S
ATOM  25933  O3* A   A1229     229.814 104.711  -6.612  1.00 36.76      A16S
ATOM  25934  P   C   A1230     230.358 106.195  -6.826  1.00 30.65      A16S
ATOM  25935  O1P C   A1230     230.470 106.481  -8.275  1.00 41.96      A16S
ATOM  25936  O2P C   A1230     231.559 106.299  -5.960  1.00 41.96      A16S
ATOM  25937  O5* C   A1230     229.203 107.125  -6.238  1.00 30.65      A16S
ATOM  25938  C5* C   A1230     227.904 107.204  -6.870  1.00 30.65      A16S
ATOM  25939  C4* C   A1230     226.959 108.056  -6.044  1.00 30.65      A16S
ATOM  25940  O4* C   A1230     226.801 107.462  -4.727  1.00 30.65      A16S
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ATOM  25941  C1* C   A1230     226.669 108.488  -3.747  1.00 30.65      A16S
ATOM  25942  N1  C   A1230     227.771 108.380  -2.760  1.00 41.96      A16S
ATOM  25943  C6  C   A1230     228.819 107.531  -2.951  1.00 41.96      A16S
ATOM  25944  C2  C   A1230     227.734 109.196  -1.633  1.00 41.96      A16S
ATOM  25945  O2  C   A1230     226.750 109.916  -1.455  1.00 41.96      A16S
ATOM  25946  N3  C   A1230     228.760 109.178  -0.762  1.00 41.96      A16S
ATOM  25947  C4  C   A1230     229.789 108.367  -0.970  1.00 41.96      A16S
ATOM  25948  N4  C   A1230     230.785 108.384  -0.087  1.00 41.96      A16S
ATOM  25949  C5  C   A1230     229.842 107.497  -2.091  1.00 41.96      A16S
ATOM  25950  C2* C   A1230     226.702 109.835  -4.475  1.00 30.65      A16S
ATOM  25951  O2* C   A1230     225.395 110.335  -4.671  1.00 30.65      A16S
ATOM  25952  C3* C   A1230     227.427 109.472  -5.761  1.00 30.65      A16S
ATOM  25953  O3* C   A1230     227.110 110.371  -6.795  1.00 30.65      A16S
ATOM  25954  P   G   A1231     227.898 111.763  -6.885  1.00 40.05      A16S
ATOM  25955  O1P G   A1231     227.568 112.386  -8.197  1.00 47.33      A16S
ATOM  25956  O2P G   A1231     229.320 111.543  -6.500  1.00 47.33      A16S
ATOM  25957  O5* G   A1231     227.245 112.643  -5.736  1.00 40.05      A16S
ATOM  25958  C5* G   A1231     225.876 113.040  -5.816  1.00 40.05      A16S
ATOM  25959  C4* G   A1231     225.504 113.878  -4.621  1.00 40.05      A16S
ATOM  25960  O4* G   A1231     225.655 113.088  -3.424  1.00 40.05      A16S
ATOM  25961  C1* G   A1231     226.108 113.915  -2.378  1.00 40.05      A16S
ATOM  25962  N9  G   A1231     227.405 113.412  -1.962  1.00 47.33      A16S
ATOM  25963  C4  G   A1231     228.139 113.834  -0.893  1.00 47.33      A16S
ATOM  25964  N3  G   A1231     227.790 114.799  -0.032  1.00 47.33      A16S
ATOM  25965  C2  G   A1231     228.697 114.960   0.901  1.00 47.33      A16S
ATOM  25966  N2  G   A1231     228.512 115.865   1.864  1.00 47.33      A16S
ATOM  25967  N1  G   A1231     229.856 114.243   0.970  1.00 47.33      A16S
ATOM  25968  C6  G   A1231     230.232 113.252   0.086  1.00 47.33      A16S
ATOM  25969  O6  G   A1231     231.301 112.663   0.235  1.00 47.33      A16S
ATOM  25970  C5  G   A1231     229.274 113.060  -0.902  1.00 47.33      A16S
ATOM  25971  N7  G   A1231     229.256 112.168  -1.961  1.00 47.33      A16S
ATOM  25972  C8  G   A1231     228.129 112.415  -2.563  1.00 47.33      A16S
ATOM  25973  C2* G   A1231     226.159 115.348  -2.901  1.00 40.05      A16S
ATOM  25974  O2* G   A1231     224.894 115.920  -2.672  1.00 40.05      A16S
ATOM  25975  C3* G   A1231     226.339 115.125  -4.387  1.00 40.05      A16S
ATOM  25976  O3* G   A1231     225.812 116.213  -5.129  1.00 40.05      A16S
ATOM  25977  P   U   A1232     226.808 117.292  -5.769  1.00 35.63      A16S
ATOM  25978  O1P U   A1232     226.071 118.167  -6.714  1.00 57.53      A16S
ATOM  25979  O2P U   A1232     228.001 116.547  -6.245  1.00 57.53      A16S
ATOM  25980  O5* U   A1232     227.220 118.171  -4.516  1.00 35.63      A16S
ATOM  25981  C5* U   A1232     226.216 118.822  -3.729  1.00 35.63      A16S
ATOM  25982  C4* U   A1232     226.829 119.383  -2.473  1.00 35.63      A16S
ATOM  25983  O4* U   A1232     227.230 118.318  -1.582  1.00 35.63      A16S
ATOM  25984  C1* U   A1232     228.405 118.688  -0.909  1.00 35.63      A16S
ATOM  25985  N1  U   A1232     229.408 117.649  -1.152  1.00 57.53      A16S
ATOM  25986  C6  U   A1232     229.293 116.773  -2.200  1.00 57.53      A16S
ATOM  25987  C2  U   A1232     230.470 117.587  -0.289  1.00 57.53      A16S
ATOM  25988  O2  U   A1232     230.597 118.351   0.645  1.00 57.53      A16S
ATOM  25989  N3  U   A1232     231.380 116.601  -0.561  1.00 57.53      A16S
ATOM  25990  C4  U   A1232     231.333 115.697  -1.591  1.00 57.53      A16S
ATOM  25991  O4  U   A1232     232.235 114.873  -1.714  1.00 57.53      A16S
ATOM  25992  C5  U   A1232     230.196 115.826  -2.444  1.00 57.53      A16S
ATOM  25993  C2* U   A1232     228.822 120.081  -1.387  1.00 35.63      A16S
ATOM  25994  O2* U   A1232     228.390 121.036  -0.452  1.00 35.63      A16S
ATOM  25995  C3* U   A1232     228.078 120.202  -2.708  1.00 35.63      A16S
ATOM  25996  O3* U   A1232     227.675 121.533  -2.983  1.00 35.63      A16S
ATOM  25997  P   G   A1233     228.702 122.541  -3.659  1.00 36.25      A16S
ATOM  25998  O1P G   A1233     228.014 123.840  -3.890  1.00 49.49      A16S
ATOM  25999  O2P G   A1233     229.327 121.830  -4.788  1.00 49.49      A16S
ATOM  26000  O5* G   A1233     229.792 122.697  -2.512  1.00 36.25      A16S
ATOM  26001  C5* G   A1233     231.199 122.765  -2.814  1.00 36.25      A16S
ATOM  26002  C4* G   A1233     232.014 122.599  -1.554  1.00 36.25      A16S
ATOM  26003  O4* G   A1233     231.907 121.236  -1.070  1.00 36.25      A16S
ATOM  26004  C1* G   A1233     233.163 120.796  -0.580  1.00 36.25      A16S
ATOM  26005  N9  G   A1233     233.555 119.610  -1.341  1.00 49.49      A16S
ATOM  26006  C4  G   A1233     234.673 118.824  -1.154  1.00 49.49      A16S
ATOM  26007  N3  G   A1233     235.632 119.009  -0.227  1.00 49.49      A16S
ATOM  26008  C2  G   A1233     236.581 118.094  -0.320  1.00 49.49      A16S
ATOM  26009  N2  G   A1233     237.629 118.123   0.507  1.00 49.49      A16S
ATOM  26010  N1  G   A1233     236.579 117.081  -1.236  1.00 49.49      A16S
ATOM  26011  C6  G   A1233     235.601 116.871  -2.194  1.00 49.49      A16S
ATOM  26012  O6  G   A1233     235.698 115.923  -2.982  1.00 49.49      A16S
ATOM  26013  C5  G   A1233     234.588 117.837  -2.115  1.00 49.49      A16S
ATOM  26014  N7  G   A1233     233.446 117.992  -2.883  1.00 49.49      A16S
ATOM  26015  C8  G   A1233     232.867 119.053  -2.392  1.00 49.49      A16S
ATOM  26016  C2* G   A1233     234.142 121.966  -0.687  1.00 36.25      A16S
ATOM  26017  O2* G   A1233     234.227 122.605   0.566  1.00 36.25      A16S
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ATOM  26018  C3* G   A1233     233.493 122.819  -1.772  1.00 36.25      A16S
ATOM  26019  O3* G   A1233     233.778 124.208  -1.670  1.00 36.25      A16S
ATOM  26020  P    C   A1234     235.009 124.831  -2.496  1.00 39.38      A16S
ATOM  26021  O1P C   A1234     235.004 126.300  -2.245  1.00 66.46      A16S
ATOM  26022  O2P C   A1234     234.956 124.338  -3.895  1.00 66.46      A16S
ATOM  26023  O5* C   A1234     236.272 124.171  -1.782  1.00 39.38      A16S
ATOM  26024  C5* C   A1234     236.573 124.483  -0.417  1.00 39.38      A16S
ATOM  26025  C4* C   A1234     237.875 123.846  -0.011  1.00 39.38      A16S
ATOM  26026  O4* C   A1234     237.718 122.411  -0.005  1.00 39.38      A16S
ATOM  26027  C1* C   A1234     238.899 121.795  -0.470  1.00 39.38      A16S
ATOM  26028  N1   C   A1234     238.545 120.948  -1.632  1.00 66.46      A16S
ATOM  26029  C6   C   A1234     237.507 121.285  -2.458  1.00 66.46      A16S
ATOM  26030  C2   C   A1234     239.269 119.778  -1.861  1.00 66.46      A16S
ATOM  26031  O2   C   A1234     240.224 119.515  -1.131  1.00 66.46      A16S
ATOM  26032  N3   C   A1234     238.910 118.965  -2.874  1.00 66.46      A16S
ATOM  26033  C4   C   A1234     237.877 119.284  -3.652  1.00 66.46      A16S
ATOM  26034  N4   C   A1234     237.534 118.429  -4.621  1.00 66.46      A16S
ATOM  26035  C5   C   A1234     237.143 120.487  -3.468  1.00 66.46      A16S
ATOM  26036  C2* C   A1234     239.929 122.897  -0.736  1.00 39.38      A16S
ATOM  26037  O2* C   A1234     240.779 123.022   0.383  1.00 39.38      A16S
ATOM  26038  C3* C   A1234     239.039 124.116  -0.939  1.00 39.38      A16S
ATOM  26039  O3* C   A1234     239.682 125.337  -0.601  1.00 39.38      A16S
ATOM  26040  P    U   A1235     240.513 126.126  -1.724  1.00 34.39      A16S
ATOM  26041  O1P U   A1235     241.113 127.310  -1.073  1.00 58.06      A16S
ATOM  26042  O2P U   A1235     239.665 126.317  -2.922  1.00 58.06      A16S
ATOM  26043  O5* U   A1235     241.656 125.080  -2.086  1.00 34.39      A16S
ATOM  26044  C5* U   A1235     242.680 124.780  -1.130  1.00 34.39      A16S
ATOM  26045  C4* U   A1235     243.678 123.810  -1.704  1.00 34.39      A16S
ATOM  26046  O4* U   A1235     243.114 122.475  -1.727  1.00 34.39      A16S
ATOM  26047  C1* U   A1235     243.668 121.751  -2.819  1.00 34.39      A16S
ATOM  26048  N1   U   A1235     242.579 121.328  -3.721  1.00 58.06      A16S
ATOM  26049  C6   U   A1235     241.374 121.992  -3.749  1.00 58.06      A16S
ATOM  26050  C2   U   A1235     242.812 120.250  -4.568  1.00 58.06      A16S
ATOM  26051  O2   U   A1235     243.849 119.604  -4.558  1.00 58.06      A16S
ATOM  26052  N3   U   A1235     241.786 119.958  -5.427  1.00 58.06      A16S
ATOM  26053  C4   U   A1235     240.578 120.604  -5.523  1.00 58.06      A16S
ATOM  26054  O4   U   A1235     239.808 120.306  -6.432  1.00 58.06      A16S
ATOM  26055  C5   U   A1235     240.397 121.673  -4.596  1.00 58.06      A16S
ATOM  26056  C2* U   A1235     244.658 122.680  -3.534  1.00 34.39      A16S
ATOM  26057  O2* U   A1235     245.975 122.521  -3.050  1.00 34.39      A16S
ATOM  26058  C3* U   A1235     244.144 124.048  -3.132  1.00 34.39      A16S
ATOM  26059  O3* U   A1235     245.185 124.992  -3.264  1.00 34.39      A16S
ATOM  26060  P    A   A1236     245.401 125.716  -4.679  1.00 44.36      A16S
ATOM  26061  O1P A   A1236     246.698 126.422  -4.559  1.00 42.37      A16S
ATOM  26062  O2P A   A1236     244.185 126.494  -5.026  1.00 42.37      A16S
ATOM  26063  O5* A   A1236     245.562 124.508  -5.720  1.00 44.36      A16S
ATOM  26064  C5* A   A1236     246.770 123.717  -5.710  1.00 44.36      A16S
ATOM  26065  C4* A   A1236     246.777 122.603  -6.762  1.00 44.36      A16S
ATOM  26066  O4* A   A1236     245.691 121.657  -6.592  1.00 44.36      A16S
ATOM  26067  C1* A   A1236     245.584 120.871  -7.765  1.00 44.36      A16S
ATOM  26068  N9   A   A1236     244.202 120.876  -8.244  1.00 42.37      A16S
ATOM  26069  C4   A   A1236     243.527 119.792  -8.743  1.00 42.37      A16S
ATOM  26070  N3   A   A1236     243.981 118.536  -8.864  1.00 42.37      A16S
ATOM  26071  C2   A   A1236     243.042 117.751  -9.378  1.00 42.37      A16S
ATOM  26072  N1   A   A1236     241.805 118.059  -9.766  1.00 42.37      A16S
ATOM  26073  C6   A   A1236     241.395 119.339  -9.652  1.00 42.37      A16S
ATOM  26074  N6   A   A1236     240.177 119.669 -10.082  1.00 42.37      A16S
ATOM  26075  C5   A   A1236     242.281 120.257  -9.099  1.00 42.37      A16S
ATOM  26076  N7   A   A1236     242.159 121.605  -8.820  1.00 42.37      A16S
ATOM  26077  C8   A   A1236     243.322 121.924  -8.314  1.00 42.37      A16S
ATOM  26078  C2* A   A1236     246.552 121.447  -8.792  1.00 44.36      A16S
ATOM  26079  O2* A   A1236     247.715 120.657  -8.709  1.00 44.36      A16S
ATOM  26080  C3* A   A1236     246.801 122.857  -8.261  1.00 44.36      A16S
ATOM  26081  O3* A   A1236     248.088 123.272  -8.703  1.00 44.36      A16S
ATOM  26082  P    C   A1237     248.273 123.900 -10.181  1.00 41.22      A16S
ATOM  26083  O1P C   A1237     249.599 124.574 -10.185  1.00 43.89      A16S
ATOM  26084  O2P C   A1237     247.062 124.670 -10.579  1.00 43.89      A16S
ATOM  26085  O5* C   A1237     248.375 122.639 -11.150  1.00 41.22      A16S
ATOM  26086  C5* C   A1237     249.514 121.769 -11.127  1.00 41.22      A16S
ATOM  26087  C4* C   A1237     249.188 120.482 -11.835  1.00 41.22      A16S
ATOM  26088  O4* C   A1237     248.005 119.922 -11.217  1.00 41.22      A16S
ATOM  26089  C1* C   A1237     247.185 119.307 -12.197  1.00 41.22      A16S
ATOM  26090  N1   C   A1237     245.860 119.974 -12.204  1.00 43.89      A16S
ATOM  26091  C6   C   A1237     245.744 121.286 -11.854  1.00 43.89      A16S
ATOM  26092  C2   C   A1237     244.719 119.248 -12.586  1.00 43.89      A16S
ATOM  26093  O2   C   A1237     244.827 118.049 -12.865  1.00 43.89      A16S
ATOM  26094  N3   C   A1237     243.526 119.873 -12.632  1.00 43.89      A16S
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ATOM  26095  C4  C  A1237     243.435 121.157 -12.301  1.00 43.89      A16S
ATOM  26096  N4  C  A1237     242.246 121.742 -12.379  1.00 43.89      A16S
ATOM  26097  C5  C  A1237     244.562 121.907 -11.882  1.00 43.89      A16S
ATOM  26098  C2* C  A1237     247.921 119.412 -13.532  1.00 41.22      A16S
ATOM  26099  O2* C  A1237     248.689 118.249 -13.763  1.00 41.22      A16S
ATOM  26100  C3* C  A1237     248.820 120.611 -13.299  1.00 41.22      A16S
ATOM  26101  O3* C  A1237     249.942 120.508 -14.150  1.00 41.22      A16S
ATOM  26102  P   A  A1238     249.758 120.765 -15.722  1.00 34.56      A16S
ATOM  26103  O1P A  A1238     248.317 120.952 -15.961  1.00 47.83      A16S
ATOM  26104  O2P A  A1238     250.494 119.722 -16.480  1.00 47.83      A16S
ATOM  26105  O5* A  A1238     250.468 122.172 -15.953  1.00 34.56      A16S
ATOM  26106  C5* A  A1238     249.733 123.322 -16.411  1.00 34.56      A16S
ATOM  26107  C4* A  A1238     249.694 124.389 -15.337  1.00 34.56      A16S
ATOM  26108  O4* A  A1238     250.239 123.882 -14.093  1.00 34.56      A16S
ATOM  26109  C1* A  A1238     250.854 124.939 -13.375  1.00 34.56      A16S
ATOM  26110  N9  A  A1238     252.282 124.655 -13.256  1.00 47.83      A16S
ATOM  26111  C4  A  A1238     253.231 125.527 -12.781  1.00 47.83      A16S
ATOM  26112  N3  A  A1238     253.032 126.759 -12.291  1.00 47.83      A16S
ATOM  26113  C2  A  A1238     254.184 127.323 -11.964  1.00 47.83      A16S
ATOM  26114  N1  A  A1238     255.417 126.839 -12.071  1.00 47.83      A16S
ATOM  26115  C6  A  A1238     255.581 125.597 -12.567  1.00 47.83      A16S
ATOM  26116  N6  A  A1238     256.814 125.116 -12.685  1.00 47.83      A16S
ATOM  26117  C5  A  A1238     254.439 124.887 -12.935  1.00 47.83      A16S
ATOM  26118  N7  A  A1238     254.257 123.616 -13.453  1.00 47.83      A16S
ATOM  26119  C8  A  A1238     252.963 123.524 -13.617  1.00 47.83      A16S
ATOM  26120  C2* A  A1238     250.639 126.213 -14.181  1.00 34.56      A16S
ATOM  26121  O2* A  A1238     249.447 126.816 -13.721  1.00 34.56      A16S
ATOM  26122  C3* A  A1238     250.487 125.660 -15.584  1.00 34.56      A16S
ATOM  26123  O3* A  A1238     249.784 126.559 -16.409  1.00 34.56      A16S
ATOM  26124  P   A  A1239     250.504 127.154 -17.705  1.00 47.05      A16S
ATOM  26125  O1P A  A1239     249.478 127.910 -18.449  1.00 35.73      A16S
ATOM  26126  O2P A  A1239     251.233 126.049 -18.375  1.00 35.73      A16S
ATOM  26127  O5* A  A1239     251.551 128.212 -17.136  1.00 47.05      A16S
ATOM  26128  C5* A  A1239     251.107 129.509 -16.699  1.00 47.05      A16S
ATOM  26129  C4* A  A1239     252.163 130.556 -16.960  1.00 47.05      A16S
ATOM  26130  O4* A  A1239     253.343 130.229 -16.185  1.00 47.05      A16S
ATOM  26131  C1* A  A1239     254.476 130.240 -17.022  1.00 47.05      A16S
ATOM  26132  N9  A  A1239     255.440 129.266 -16.510  1.00 35.73      A16S
ATOM  26133  C4  A  A1239     256.784 129.486 -16.339  1.00 35.73      A16S
ATOM  26134  N3  A  A1239     257.463 130.615 -16.589  1.00 35.73      A16S
ATOM  26135  C2  A  A1239     258.763 130.446 -16.342  1.00 35.73      A16S
ATOM  26136  N1  A  A1239     259.412 129.360 -15.911  1.00 35.73      A16S
ATOM  26137  C6  A  A1239     258.700 128.243 -15.667  1.00 35.73      A16S
ATOM  26138  N6  A  A1239     259.349 127.156 -15.245  1.00 35.73      A16S
ATOM  26139  C5  A  A1239     257.306 128.294 -15.881  1.00 35.73      A16S
ATOM  26140  N7  A  A1239     256.303 127.349 -15.735  1.00 35.73      A16S
ATOM  26141  C8  A  A1239     255.221 127.977 -16.119  1.00 35.73      A16S
ATOM  26142  C2* A  A1239     253.957 129.987 -18.439  1.00 47.05      A16S
ATOM  26143  O2* A  A1239     254.830 130.520 -19.413  1.00 47.05      A16S
ATOM  26144  C3* A  A1239     252.622 130.730 -18.407  1.00 47.05      A16S
ATOM  26145  O3* A  A1239     252.858 132.112 -18.682  1.00 47.05      A16S
ATOM  26146  P   U  A1240     251.702 133.004 -19.359  1.00 54.19      A16S
ATOM  26147  O1P U  A1240     250.957 132.134 -20.304  1.00 45.80      A16S
ATOM  26148  O2P U  A1240     252.296 134.281 -19.858  1.00 45.80      A16S
ATOM  26149  O5* U  A1240     250.728 133.330 -18.135  1.00 54.19      A16S
ATOM  26150  C5* U  A1240     250.998 134.429 -17.233  1.00 54.19      A16S
ATOM  26151  C4* U  A1240     249.716 134.913 -16.587  1.00 54.19      A16S
ATOM  26152  O4* U  A1240     248.798 135.378 -17.615  1.00 54.19      A16S
ATOM  26153  C1* U  A1240     247.555 134.740 -17.443  1.00 54.19      A16S
ATOM  26154  N1  U  A1240     246.848 134.693 -18.728  1.00 45.80      A16S
ATOM  26155  C6  U  A1240     247.102 133.739 -19.668  1.00 45.80      A16S
ATOM  26156  C2  U  A1240     245.906 135.671 -18.955  1.00 45.80      A16S
ATOM  26157  O2  U  A1240     245.621 136.521 -18.133  1.00 45.80      A16S
ATOM  26158  N3  U  A1240     245.294 135.619 -20.174  1.00 45.80      A16S
ATOM  26159  C4  U  A1240     245.505 134.700 -21.159  1.00 45.80      A16S
ATOM  26160  O4  U  A1240     244.866 134.787 -22.206  1.00 45.80      A16S
ATOM  26161  C5  U  A1240     246.477 133.705 -20.845  1.00 45.80      A16S
ATOM  26162  C2* U  A1240     247.871 133.420 -16.753  1.00 54.19      A16S
ATOM  26163  O2* U  A1240     246.717 132.913 -16.134  1.00 54.19      A16S
ATOM  26164  C3* U  A1240     248.954 133.866 -15.777  1.00 54.19      A16S
ATOM  26165  O3* U  A1240     248.301 134.508 -14.680  1.00 54.19      A16S
ATOM  26166  P   G  A1241     249.067 134.710 -13.278  1.00 44.43      A16S
ATOM  26167  O1P G  A1241     248.037 134.882 -12.232  1.00 58.86      A16S
ATOM  26168  O2P G  A1241     250.065 135.777 -13.495  1.00 58.86      A16S
ATOM  26169  O5* G  A1241     249.798 133.316 -12.999  1.00 44.43      A16S
ATOM  26170  C5* G  A1241     249.060 132.084 -13.056  1.00 44.43      A16S
ATOM  26171  C4* G  A1241     249.958 130.906 -12.783  1.00 44.43      A16S
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ATOM  26172  O4* G   A1241     250.920 130.747 -13.846  1.00 44.43      A16S
ATOM  26173  C1* G   A1241     252.146 130.262 -13.316  1.00 44.43      A16S
ATOM  26174  N9  G   A1241     253.212 131.214 -13.643  1.00 58.86      A16S
ATOM  26175  C4  G   A1241     254.556 131.040 -13.418  1.00 58.86      A16S
ATOM  26176  N3  G   A1241     255.124 129.981 -12.816  1.00 58.86      A16S
ATOM  26177  C2  G   A1241     256.432 130.089 -12.768  1.00 58.86      A16S
ATOM  26178  N2  G   A1241     257.150 129.127 -12.193  1.00 58.86      A16S
ATOM  26179  N1  G   A1241     257.132 131.150 -13.278  1.00 58.86      A16S
ATOM  26180  C6  G   A1241     256.566 132.254 -13.903  1.00 58.86      A16S
ATOM  26181  O6  G   A1241     257.286 133.157 -14.336  1.00 58.86      A16S
ATOM  26182  C5  G   A1241     255.164 132.157 -13.950  1.00 58.86      A16S
ATOM  26183  N7  G   A1241     254.223 133.032 -14.470  1.00 58.86      A16S
ATOM  26184  C8  G   A1241     253.081 132.439 -14.261  1.00 58.86      A16S
ATOM  26185  C2* G   A1241     251.948 130.049 -11.819  1.00 44.43      A16S
ATOM  26186  O2* G   A1241     251.577 128.711 -11.581  1.00 44.43      A16S
ATOM  26187  C3* G   A1241     250.797 130.996 -11.529  1.00 44.43      A16S
ATOM  26188  O3* G   A1241     250.066 130.582 -10.401  1.00 44.43      A16S
ATOM  26189  P   C   A1242     250.228 131.385  -9.039  1.00 36.39      A16S
ATOM  26190  O1P C   A1242     249.063 131.055  -8.197  1.00 42.84      A16S
ATOM  26191  O2P C   A1242     250.498 132.798  -9.404  1.00 42.84      A16S
ATOM  26192  O5* C   A1242     251.502 130.719  -8.379  1.00 36.39      A16S
ATOM  26193  C5* C   A1242     251.401 129.401  -7.868  1.00 36.39      A16S
ATOM  26194  C4* C   A1242     252.766 128.848  -7.581  1.00 36.39      A16S
ATOM  26195  O4* C   A1242     253.527 128.811  -8.814  1.00 36.39      A16S
ATOM  26196  C1* C   A1242     254.896 129.021  -8.529  1.00 36.39      A16S
ATOM  26197  N1  C   A1242     255.329 130.238  -9.224  1.00 42.84      A16S
ATOM  26198  C6  C   A1242     254.427 131.058  -9.839  1.00 42.84      A16S
ATOM  26199  C2  C   A1242     256.683 130.549  -9.232  1.00 42.84      A16S
ATOM  26200  O2  C   A1242     257.481 129.767  -8.682  1.00 42.84      A16S
ATOM  26201  N3  C   A1242     257.091 131.687  -9.831  1.00 42.84      A16S
ATOM  26202  C4  C   A1242     256.198 132.494 -10.404  1.00 42.84      A16S
ATOM  26203  N4  C   A1242     256.638 133.627 -10.948  1.00 42.84      A16S
ATOM  26204  C5  C   A1242     254.815 132.183 -10.434  1.00 42.84      A16S
ATOM  26205  C2* C   A1242     255.040 129.158  -7.013  1.00 36.39      A16S
ATOM  26206  O2* C   A1242     255.379 127.892  -6.464  1.00 36.39      A16S
ATOM  26207  C3* C   A1242     253.646 129.635  -6.622  1.00 36.39      A16S
ATOM  26208  O3* C   A1242     253.330 129.384  -5.256  1.00 36.39      A16S
ATOM  26209  P   C   A1243     253.496 130.563  -4.186  1.00 51.40      A16S
ATOM  26210  O1P C   A1243     252.931 130.083  -2.903  1.00 50.63      A16S
ATOM  26211  O2P C   A1243     252.993 131.822  -4.787  1.00 50.63      A16S
ATOM  26212  O5* C   A1243     255.077 130.683  -4.026  1.00 51.40      A16S
ATOM  26213  C5* C   A1243     255.873 129.533  -3.615  1.00 51.40      A16S
ATOM  26214  C4* C   A1243     257.367 129.850  -3.648  1.00 51.40      A16S
ATOM  26215  O4* C   A1243     257.823 130.006  -5.013  1.00 51.40      A16S
ATOM  26216  C1* C   A1243     258.820 131.003  -5.068  1.00 51.40      A16S
ATOM  26217  N1  C   A1243     258.331 132.084  -5.924  1.00 50.63      A16S
ATOM  26218  C6  C   A1243     256.999 132.360  -6.011  1.00 50.63      A16S
ATOM  26219  C2  C   A1243     259.252 132.823  -6.658  1.00 50.63      A16S
ATOM  26220  O2  C   A1243     260.465 132.562  -6.534  1.00 50.63      A16S
ATOM  26221  N3  C   A1243     258.808 133.805  -7.480  1.00 50.63      A16S
ATOM  26222  C4  C   A1243     257.503 134.058  -7.566  1.00 50.63      A16S
ATOM  26223  N4  C   A1243     257.102 135.024  -8.391  1.00 50.63      A16S
ATOM  26224  C5  C   A1243     256.545 133.329  -6.810  1.00 50.63      A16S
ATOM  26225  C2* C   A1243     259.113 131.467  -3.644  1.00 51.40      A16S
ATOM  26226  O2* C   A1243     260.227 130.745  -3.161  1.00 51.40      A16S
ATOM  26227  C3* C   A1243     257.811 131.118  -2.935  1.00 51.40      A16S
ATOM  26228  O3* C   A1243     258.000 130.879  -1.548  1.00 51.40      A16S
ATOM  26229  P   C   A1244     257.669 132.039  -0.491  1.00 76.14      A16S
ATOM  26230  O1P C   A1244     257.688 131.356   0.826  1.00 67.49      A16S
ATOM  26231  O2P C   A1244     256.462 132.797  -0.917  1.00 67.49      A16S
ATOM  26232  O5* C   A1244     258.919 133.017  -0.595  1.00 76.14      A16S
ATOM  26233  C5* C   A1244     260.240 132.553  -0.251  1.00 76.14      A16S
ATOM  26234  C4* C   A1244     261.278 133.584  -0.624  1.00 76.14      A16S
ATOM  26235  O4* C   A1244     261.406 133.674  -2.065  1.00 76.14      A16S
ATOM  26236  C1* C   A1244     261.693 135.011  -2.435  1.00 76.14      A16S
ATOM  26237  N1  C   A1244     260.606 135.497  -3.295  1.00 67.49      A16S
ATOM  26238  C6  C   A1244     259.345 134.976  -3.192  1.00 67.49      A16S
ATOM  26239  C2  C   A1244     260.878 136.518  -4.215  1.00 67.49      A16S
ATOM  26240  O2  C   A1244     262.039 136.961  -4.304  1.00 67.49      A16S
ATOM  26241  N3  C   A1244     259.874 136.994  -4.985  1.00 67.49      A16S
ATOM  26242  C4  C   A1244     258.646 136.482  -4.870  1.00 67.49      A16S
ATOM  26243  N4  C   A1244     257.686 136.979  -5.651  1.00 67.49      A16S
ATOM  26244  C5  C   A1244     258.346 135.435  -3.950  1.00 67.49      A16S
ATOM  26245  C2* C   A1244     261.803 135.835  -1.154  1.00 76.14      A16S
ATOM  26246  O2* C   A1244     263.157 135.910  -0.768  1.00 76.14      A16S
ATOM  26247  C3* C   A1244     260.975 135.004  -0.187  1.00 76.14      A16S
ATOM  26248  O3* C   A1244     261.326 135.223   1.161  1.00 76.14      A16S
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ATOM  26249  P    A   A1245     260.536 136.331   2.005  1.00 80.90      A16S
ATOM  26250  O1P  A   A1245     260.922 136.104   3.428  1.00 65.03      A16S
ATOM  26251  O2P  A   A1245     259.099 136.328   1.620  1.00 65.03      A16S
ATOM  26252  O5*  A   A1245     261.144 137.698   1.468  1.00 80.90      A16S
ATOM  26253  C5*  A   A1245     262.555 137.934   1.520  1.00 80.90      A16S
ATOM  26254  C4*  A   A1245     262.895 139.205   0.793  1.00 80.90      A16S
ATOM  26255  O4*  A   A1245     262.693 139.029  -0.630  1.00 80.90      A16S
ATOM  26256  C1*  A   A1245     262.253 140.245  -1.199  1.00 80.90      A16S
ATOM  26257  N9   A   A1245     260.971 140.005  -1.850  1.00 65.03      A16S
ATOM  26258  C4   A   A1245     260.470 140.742  -2.891  1.00 65.03      A16S
ATOM  26259  N3   A   A1245     261.059 141.781  -3.508  1.00 65.03      A16S
ATOM  26260  C2   A   A1245     260.268 142.271  -4.459  1.00 65.03      A16S
ATOM  26261  N1   A   A1245     259.049 141.874  -4.831  1.00 65.03      A16S
ATOM  26262  C6   A   A1245     258.484 140.828  -4.186  1.00 65.03      A16S
ATOM  26263  N6   A   A1245     257.260 140.444  -4.543  1.00 65.03      A16S
ATOM  26264  C5   A   A1245     259.224 140.212  -3.163  1.00 65.03      A16S
ATOM  26265  N7   A   A1245     258.950 139.140  -2.322  1.00 65.03      A16S
ATOM  26266  C8   A   A1245     260.017 139.056  -1.566  1.00 65.03      A16S
ATOM  26267  C2*  A   A1245     262.144 141.284  -0.081  1.00 80.90      A16S
ATOM  26268  O2*  A   A1245     263.284 142.116  -0.086  1.00 80.90      A16S
ATOM  26269  C3*  A   A1245     262.036 140.399   1.155  1.00 80.90      A16S
ATOM  26270  O3*  A   A1245     262.493 141.022   2.344  1.00 80.90      A16S
ATOM  26271  P    C   A1246     261.455 141.848   3.243  1.00 77.40      A16S
ATOM  26272  O1P  C   A1246     262.178 142.317   4.455  1.00 97.02      A16S
ATOM  26273  O2P  C   A1246     260.226 141.028   3.400  1.00 97.02      A16S
ATOM  26274  O5*  C   A1246     261.127 143.109   2.327  1.00 77.40      A16S
ATOM  26275  C5*  C   A1246     262.172 144.012   1.964  1.00 77.40      A16S
ATOM  26276  C4*  C   A1246     261.696 144.987   0.926  1.00 77.40      A16S
ATOM  26277  O4*  C   A1246     261.410 144.288  -0.308  1.00 77.40      A16S
ATOM  26278  C1*  C   A1246     260.368 144.960  -1.004  1.00 77.40      A16S
ATOM  26279  N1   C   A1246     259.240 144.030  -1.203  1.00 97.02      A16S
ATOM  26280  C6   C   A1246     258.995 143.024  -0.311  1.00 97.02      A16S
ATOM  26281  C2   C   A1246     258.412 144.198  -2.323  1.00 97.02      A16S
ATOM  26282  O2   C   A1246     258.649 145.117  -3.119  1.00 97.02      A16S
ATOM  26283  N3   C   A1246     257.377 143.359  -2.508  1.00 97.02      A16S
ATOM  26284  C4   C   A1246     257.149 142.382  -1.632  1.00 97.02      A16S
ATOM  26285  N4   C   A1246     256.115 141.571  -1.861  1.00 97.02      A16S
ATOM  26286  C5   C   A1246     257.969 142.187  -0.484  1.00 97.02      A16S
ATOM  26287  C2*  C   A1246     259.958 146.170  -0.166  1.00 77.40      A16S
ATOM  26288  O2*  C   A1246     260.618 147.330  -0.642  1.00 77.40      A16S
ATOM  26289  C3*  C   A1246     260.412 145.739   1.223  1.00 77.40      A16S
ATOM  26290  O3*  C   A1246     260.590 146.838   2.095  1.00 77.40      A16S
ATOM  26291  P    U   A1247     259.359 147.318   3.004  1.00 82.47      A16S
ATOM  26292  O1P  U   A1247     259.840 148.451   3.830  1.00 97.71      A16S
ATOM  26293  O2P  U   A1247     258.769 146.124   3.667  1.00 97.71      A16S
ATOM  26294  O5*  U   A1247     258.321 147.890   1.942  1.00 82.47      A16S
ATOM  26295  C5*  U   A1247     258.667 149.021   1.126  1.00 82.47      A16S
ATOM  26296  C4*  U   A1247     257.603 149.273   0.083  1.00 82.47      A16S
ATOM  26297  O4*  U   A1247     257.591 148.189  -0.886  1.00 82.47      A16S
ATOM  26298  C1*  U   A1247     256.259 147.955  -1.326  1.00 82.47      A16S
ATOM  26299  N1   U   A1247     255.846 146.619  -0.867  1.00 97.71      A16S
ATOM  26300  C6   U   A1247     256.455 146.019   0.213  1.00 97.71      A16S
ATOM  26301  C2   U   A1247     254.804 145.993  -1.531  1.00 97.71      A16S
ATOM  26302  O2   U   A1247     254.255 146.468  -2.511  1.00 97.71      A16S
ATOM  26303  N3   U   A1247     254.429 144.785  -1.000  1.00 97.71      A16S
ATOM  26304  C4   U   A1247     254.979 144.149   0.098  1.00 97.71      A16S
ATOM  26305  O4   U   A1247     254.471 143.107   0.514  1.00 97.71      A16S
ATOM  26306  C5   U   A1247     256.067 144.842   0.703  1.00 97.71      A16S
ATOM  26307  C2*  U   A1247     255.377 149.025  -0.683  1.00 82.47      A16S
ATOM  26308  O2*  U   A1247     255.251 150.151  -1.537  1.00 82.47      A16S
ATOM  26309  C3*  U   A1247     256.167 149.340   0.578  1.00 82.47      A16S
ATOM  26310  O3*  U   A1247     255.801 150.580   1.159  1.00 82.47      A16S
ATOM  26311  P    A   A1248     254.544 150.632   2.158  1.00 99.57      A16S
ATOM  26312  O1P  A   A1248     254.560 151.975   2.785  1.00 60.78      A16S
ATOM  26313  O2P  A   A1248     254.567 149.418   3.019  1.00 60.78      A16S
ATOM  26314  O5*  A   A1248     253.293 150.558   1.172  1.00 99.57      A16S
ATOM  26315  C5*  A   A1248     253.169 151.524   0.108  1.00 99.57      A16S
ATOM  26316  C4*  A   A1248     251.806 151.459  -0.551  1.00 99.57      A16S
ATOM  26317  O4*  A   A1248     251.723 150.375  -1.514  1.00 99.57      A16S
ATOM  26318  C1*  A   A1248     250.367 149.986  -1.667  1.00 99.57      A16S
ATOM  26319  N9   A   A1248     250.236 148.568  -1.332  1.00 60.78      A16S
ATOM  26320  C4   A   A1248     249.339 147.676  -1.880  1.00 60.78      A16S
ATOM  26321  N3   A   A1248     248.432 147.913  -2.846  1.00 60.78      A16S
ATOM  26322  C2   A   A1248     247.732 146.815  -3.113  1.00 60.78      A16S
ATOM  26323  N1   A   A1248     247.824 145.593  -2.565  1.00 60.78      A16S
ATOM  26324  C6   A   A1248     248.745 145.385  -1.596  1.00 60.78      A16S
ATOM  26325  N6   A   A1248     248.841 144.167  -1.045  1.00 60.78      A16S
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ATOM  26326  C5  A   A1248     249.554 146.473  -1.223  1.00 60.78       A16S
ATOM  26327  N7  A   A1248     250.573 146.598  -0.288  1.00 60.78       A16S
ATOM  26328  C8  A   A1248     250.946 147.854  -0.394  1.00 60.78       A16S
ATOM  26329  C2* A   A1248     249.533 150.849  -0.719  1.00 99.57       A16S
ATOM  26330  O2* A   A1248     248.990 151.943  -1.435  1.00 99.57       A16S
ATOM  26331  C3* A   A1248     250.571 151.283   0.312  1.00 99.57       A16S
ATOM  26332  O3* A   A1248     250.178 152.475   0.981  1.00 99.57       A16S
ATOM  26333  P   C   A1249     248.919 152.441   1.986  1.00 88.23       A16S
ATOM  26334  O1P C   A1249     248.887 153.691   2.786  1.00 55.50       A16S
ATOM  26335  O2P C   A1249     248.894 151.128   2.690  1.00 55.50       A16S
ATOM  26336  O5* C   A1249     247.679 152.528   0.997  1.00 88.23       A16S
ATOM  26337  C5* C   A1249     246.376 152.228   1.470  1.00 88.23       A16S
ATOM  26338  C4* C   A1249     245.393 152.204   0.337  1.00 88.23       A16S
ATOM  26339  O4* C   A1249     245.940 151.469  -0.789  1.00 88.23       A16S
ATOM  26340  C1* C   A1249     244.990 150.519  -1.246  1.00 88.23       A16S
ATOM  26341  N1  C   A1249     245.434 149.188  -0.776  1.00 55.50       A16S
ATOM  26342  C6  C   A1249     246.391 149.083   0.194  1.00 55.50       A16S
ATOM  26343  C2  C   A1249     244.855 148.033  -1.320  1.00 55.50       A16S
ATOM  26344  O2  C   A1249     243.992 148.143  -2.223  1.00 55.50       A16S
ATOM  26345  N3  C   A1249     245.249 146.824  -0.851  1.00 55.50       A16S
ATOM  26346  C4  C   A1249     246.177 146.745   0.102  1.00 55.50       A16S
ATOM  26347  N4  C   A1249     246.531 145.537   0.539  1.00 55.50       A16S
ATOM  26348  C5  C   A1249     246.786 147.898   0.654  1.00 55.50       A16S
ATOM  26349  C2* C   A1249     243.655 150.903  -0.603  1.00 88.23       A16S
ATOM  26350  O2* C   A1249     242.991 151.875  -1.384  1.00 88.23       A16S
ATOM  26351  C3* C   A1249     244.135 151.457   0.722  1.00 88.23       A16S
ATOM  26352  O3* C   A1249     243.237 152.286   1.413  1.00 88.23       A16S
ATOM  26353  P   A   A1250     242.920 151.971   2.956  1.00104.15       A16S
ATOM  26354  O1P A   A1250     242.289 153.217   3.452  1.00 54.73       A16S
ATOM  26355  O2P A   A1250     244.118 151.416   3.659  1.00 54.73       A16S
ATOM  26356  O5* A   A1250     241.847 150.790   2.906  1.00104.15       A16S
ATOM  26357  C5* A   A1250     240.981 150.643   1.775  1.00104.15       A16S
ATOM  26358  C4* A   A1250     239.875 149.653   2.053  1.00104.15       A16S
ATOM  26359  O4* A   A1250     240.369 148.292   2.059  1.00104.15       A16S
ATOM  26360  C1* A   A1250     239.400 147.466   2.678  1.00104.15       A16S
ATOM  26361  N9  A   A1250     240.039 146.527   3.599  1.00 54.73       A16S
ATOM  26362  C4  A   A1250     239.825 145.169   3.643  1.00 54.73       A16S
ATOM  26363  N3  A   A1250     239.046 144.439   2.832  1.00 54.73       A16S
ATOM  26364  C2  A   A1250     239.065 143.158   3.192  1.00 54.73       A16S
ATOM  26365  N1  A   A1250     239.714 142.564   4.201  1.00 54.73       A16S
ATOM  26366  C6  A   A1250     240.478 143.325   5.006  1.00 54.73       A16S
ATOM  26367  N6  A   A1250     241.099 142.738   6.038  1.00 54.73       A16S
ATOM  26368  C5  A   A1250     240.560 144.705   4.716  1.00 54.73       A16S
ATOM  26369  N7  A   A1250     241.253 145.744   5.316  1.00 54.73       A16S
ATOM  26370  C8  A   A1250     240.917 146.798   4.611  1.00 54.73       A16S
ATOM  26371  C2* A   A1250     238.404 148.382   3.388  1.00104.15       A16S
ATOM  26372  O2* A   A1250     237.227 148.393   2.612  1.00104.15       A16S
ATOM  26373  C3* A   A1250     239.121 149.731   3.365  1.00104.15       A16S
ATOM  26374  O3* A   A1250     238.188 150.803   3.405  1.00104.15       A16S
ATOM  26375  P   A   A1251     237.513 151.224   4.813  1.00 96.30       A16S
ATOM  26376  O1P A   A1251     236.803 152.517   4.605  1.00 57.46       A16S
ATOM  26377  O2P A   A1251     238.497 151.094   5.925  1.00 57.46       A16S
ATOM  26378  O5* A   A1251     236.413 150.101   5.063  1.00 96.30       A16S
ATOM  26379  C5* A   A1251     235.325 149.915   4.143  1.00 96.30       A16S
ATOM  26380  C4* A   A1251     234.611 148.627   4.443  1.00 96.30       A16S
ATOM  26381  O4* A   A1251     235.544 147.529   4.317  1.00 96.30       A16S
ATOM  26382  C1* A   A1251     235.233 146.533   5.263  1.00 96.30       A16S
ATOM  26383  N9  A   A1251     236.425 146.265   6.066  1.00 57.46       A16S
ATOM  26384  C4  A   A1251     236.857 145.024   6.479  1.00 57.46       A16S
ATOM  26385  N3  A   A1251     236.280 143.837   6.240  1.00 57.46       A16S
ATOM  26386  C2  A   A1251     236.982 142.847   6.793  1.00 57.46       A16S
ATOM  26387  N1  A   A1251     238.105 142.901   7.503  1.00 57.46       A16S
ATOM  26388  C6  A   A1251     238.662 144.105   7.731  1.00 57.46       A16S
ATOM  26389  N6  A   A1251     239.787 144.151   8.448  1.00 57.46       A16S
ATOM  26390  C5  A   A1251     238.014 145.244   7.195  1.00 57.46       A16S
ATOM  26391  N7  A   A1251     238.309 146.601   7.239  1.00 57.46       A16S
ATOM  26392  C8  A   A1251     237.336 147.160   6.557  1.00 57.46       A16S
ATOM  26393  C2* A   A1251     234.016 147.003   6.059  1.00 96.30       A16S
ATOM  26394  O2* A   A1251     232.862 146.463   5.460  1.00 96.30       A16S
ATOM  26395  C3* A   A1251     234.065 148.507   5.852  1.00 96.30       A16S
ATOM  26396  O3* A   A1251     232.769 149.084   5.920  1.00 96.30       A16S
ATOM  26397  P   A   A1252     232.138 149.469   7.349  1.00 78.52       A16S
ATOM  26398  O1P A   A1252     230.844 150.162   7.068  1.00 59.24       A16S
ATOM  26399  O2P A   A1252     233.165 150.154   8.172  1.00 59.24       A16S
ATOM  26400  O5* A   A1252     231.864 148.063   8.049  1.00 78.52       A16S
ATOM  26401  C5* A   A1252     230.867 147.166   7.536  1.00 78.52       A16S
ATOM  26402  C4* A   A1252     231.012 145.806   8.168  1.00 78.52       A16S
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ATOM  26403  O4* A   A1252      232.324 145.266   7.873  1.00 78.52      A16S
ATOM  26404  C1* A   A1252      232.787 144.499   8.966  1.00 78.52      A16S
ATOM  26405  N9  A   A1252      234.077 145.042   9.397  1.00 59.24      A16S
ATOM  26406  C4  A   A1252      235.087 144.341  10.012  1.00 59.24      A16S
ATOM  26407  N3  A   A1252      235.088 143.041  10.351  1.00 59.24      A16S
ATOM  26408  C2  A   A1252      236.247 142.704  10.907  1.00 59.24      A16S
ATOM  26409  N1  A   A1252      237.324 143.461  11.144  1.00 59.24      A16S
ATOM  26410  C6  A   A1252      237.290 144.762  10.788  1.00 59.24      A16S
ATOM  26411  N6  A   A1252      238.371 145.511  11.009  1.00 59.24      A16S
ATOM  26412  C5  A   A1252      236.115 145.245  10.195  1.00 59.24      A16S
ATOM  26413  N7  A   A1252      235.757 146.497   9.723  1.00 59.24      A16S
ATOM  26414  C8  A   A1252      234.542 146.326   9.264  1.00 59.24      A16S
ATOM  26415  C2* A   A1252      231.702 144.516  10.043  1.00 78.52      A16S
ATOM  26416  O2* A   A1252      230.951 143.324   9.937  1.00 78.52      A16S
ATOM  26417  C3* A   A1252      230.915 145.776   9.678  1.00 78.52      A16S
ATOM  26418  O3* A   A1252      229.549 145.744  10.075  1.00 78.52      A16S
ATOM  26419  P   G   A1253      229.169 145.845  11.634  1.00 56.99      A16S
ATOM  26420  O1P G   A1253      227.701 145.583  11.725  1.00 55.14      A16S
ATOM  26421  O2P G   A1253      229.734 147.112  12.190  1.00 55.14      A16S
ATOM  26422  O5* G   A1253      229.919 144.578  12.247  1.00 56.99      A16S
ATOM  26423  C5* G   A1253      230.525 144.592  13.542  1.00 56.99      A16S
ATOM  26424  C4* G   A1253      231.391 143.373  13.682  1.00 56.99      A16S
ATOM  26425  O4* G   A1253      232.550 143.516  12.828  1.00 56.99      A16S
ATOM  26426  C1* G   A1253      233.659 142.848  13.416  1.00 56.99      A16S
ATOM  26427  N9  G   A1253      234.749 143.805  13.616  1.00 55.14      A16S
ATOM  26428  C4  G   A1253      236.010 143.514  14.087  1.00 55.14      A16S
ATOM  26429  N3  G   A1253      236.463 142.293  14.442  1.00 55.14      A16S
ATOM  26430  C2  G   A1253      237.710 142.335  14.861  1.00 55.14      A16S
ATOM  26431  N2  G   A1253      238.315 141.218  15.264  1.00 55.14      A16S
ATOM  26432  N1  G   A1253      238.454 143.476  14.922  1.00 55.14      A16S
ATOM  26433  C6  G   A1253      238.009 144.744  14.565  1.00 55.14      A16S
ATOM  26434  O6  G   A1253      238.763 145.719  14.667  1.00 55.14      A16S
ATOM  26435  C5  G   A1253      236.676 144.718  14.116  1.00 55.14      A16S
ATOM  26436  N7  G   A1253      235.859 145.749  13.671  1.00 55.14      A16S
ATOM  26437  C8  G   A1253      234.728 145.163  13.384  1.00 55.14      A16S
ATOM  26438  C2* G   A1253      233.187 142.235  14.733  1.00 56.99      A16S
ATOM  26439  O2* G   A1253      232.868 140.870  14.546  1.00 56.99      A16S
ATOM  26440  C3* G   A1253      231.977 143.099  15.049  1.00 56.99      A16S
ATOM  26441  O3* G   A1253      231.056 142.422  15.865  1.00 56.99      A16S
ATOM  26442  P   C   A1254      230.717 143.011  17.309  1.00 68.73      A16S
ATOM  26443  O1P C   A1254      229.327 142.600  17.605  1.00 57.03      A16S
ATOM  26444  O2P C   A1254      231.064 144.453  17.294  1.00 57.03      A16S
ATOM  26445  O5* C   A1254      231.700 142.233  18.289  1.00 68.73      A16S
ATOM  26446  C5* C   A1254      231.631 140.809  18.392  1.00 68.73      A16S
ATOM  26447  C4* C   A1254      233.005 140.241  18.607  1.00 68.73      A16S
ATOM  26448  O4* C   A1254      233.883 140.696  17.549  1.00 68.73      A16S
ATOM  26449  C1* C   A1254      235.197 140.866  18.057  1.00 68.73      A16S
ATOM  26450  N1  C   A1254      235.597 142.264  17.867  1.00 57.03      A16S
ATOM  26451  C6  C   A1254      234.673 143.224  17.554  1.00 57.03      A16S
ATOM  26452  C2  C   A1254      236.940 142.597  18.005  1.00 57.03      A16S
ATOM  26453  O2  C   A1254      237.747 141.705  18.310  1.00 57.03      A16S
ATOM  26454  N3  C   A1254      237.324 143.882  17.808  1.00 57.03      A16S
ATOM  26455  C4  C   A1254      236.412 144.810  17.489  1.00 57.03      A16S
ATOM  26456  N4  C   A1254      236.824 146.063  17.291  1.00 57.03      A16S
ATOM  26457  C5  C   A1254      235.035 144.495  17.356  1.00 57.03      A16S
ATOM  26458  C2* C   A1254      235.179 140.482  19.531  1.00 68.73      A16S
ATOM  26459  O2* C   A1254      235.596 139.137  19.658  1.00 68.73      A16S
ATOM  26460  C3* C   A1254      233.711 140.684  19.871  1.00 68.73      A16S
ATOM  26461  O3* C   A1254      233.324 139.903  20.972  1.00 68.73      A16S
ATOM  26462  P   G   A1255      233.194 140.598  22.400  1.00 83.36      A16S
ATOM  26463  O1P G   A1255      232.610 139.593  23.339  1.00 62.87      A16S
ATOM  26464  O2P G   A1255      232.502 141.899  22.165  1.00 62.87      A16S
ATOM  26465  O5* G   A1255      234.707 140.879  22.815  1.00 83.36      A16S
ATOM  26466  C5* G   A1255      235.592 139.786  23.134  1.00 83.36      A16S
ATOM  26467  C4* G   A1255      236.921 140.304  23.630  1.00 83.36      A16S
ATOM  26468  O4* G   A1255      237.610 140.993  22.558  1.00 83.36      A16S
ATOM  26469  C1* G   A1255      238.386 142.047  23.091  1.00 83.36      A16S
ATOM  26470  N9  G   A1255      238.005 143.291  22.431  1.00 62.87      A16S
ATOM  26471  C4  G   A1255      238.809 144.388  22.241  1.00 62.87      A16S
ATOM  26472  N3  G   A1255      240.091 144.514  22.646  1.00 62.87      A16S
ATOM  26473  C2  G   A1255      240.603 145.694  22.313  1.00 62.87      A16S
ATOM  26474  N2  G   A1255      241.874 146.002  22.648  1.00 62.87      A16S
ATOM  26475  N1  G   A1255      239.912 146.661  21.631  1.00 62.87      A16S
ATOM  26476  C6  G   A1255      238.594 146.552  21.208  1.00 62.87      A16S
ATOM  26477  O6  G   A1255      238.066 147.489  20.606  1.00 62.87      A16S
ATOM  26478  C5  G   A1255      238.030 145.299  21.562  1.00 62.87      A16S
ATOM  26479  N7  G   A1255      236.760 144.791  21.339  1.00 62.87      A16S
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ATOM  26480  C8  G   A1255     236.790 143.600  21.872  1.00 62.87      A16S
ATOM  26481  C2* G   A1255     238.184 142.062  24.606  1.00 83.36      A16S
ATOM  26482  O2* G   A1255     239.262 141.375  25.204  1.00 83.36      A16S
ATOM  26483  C3* G   A1255     236.864 141.315  24.760  1.00 83.36      A16S
ATOM  26484  O3* G   A1255     236.748 140.682  26.030  1.00 83.36      A16S
ATOM  26485  P   A   A1256     236.035 141.465  27.239  1.00129.85      A16S
ATOM  26486  O1P A   A1256     234.583 141.528  26.931  1.00141.22      A16S
ATOM  26487  O2P A   A1256     236.789 142.724  27.464  1.00141.22      A16S
ATOM  26488  O5* A   A1256     236.238 140.522  28.511  1.00129.85      A16S
ATOM  26489  C5* A   A1256     237.333 139.588  28.572  1.00129.85      A16S
ATOM  26490  C4* A   A1256     238.159 139.795  29.832  1.00129.85      A16S
ATOM  26491  O4* A   A1256     238.610 141.166  29.911  1.00129.85      A16S
ATOM  26492  C1* A   A1256     238.931 141.460  31.250  1.00129.85      A16S
ATOM  26493  N9  A   A1256     238.607 142.856  31.529  1.00141.22      A16S
ATOM  26494  C4  A   A1256     239.297 143.927  31.014  1.00141.22      A16S
ATOM  26495  N3  A   A1256     240.335 143.892  30.160  1.00141.22      A16S
ATOM  26496  C2  A   A1256     240.769 145.122  29.894  1.00141.22      A16S
ATOM  26497  N1  A   A1256     240.323 146.295  30.353  1.00141.22      A16S
ATOM  26498  C6  A   A1256     239.280 146.297  31.214  1.00141.22      A16S
ATOM  26499  N6  A   A1256     238.847 147.468  31.687  1.00141.22      A16S
ATOM  26500  C5  A   A1256     238.718 145.051  31.567  1.00141.22      A16S
ATOM  26501  N7  A   A1256     237.661 144.700  32.398  1.00141.22      A16S
ATOM  26502  C8  A   A1256     237.633 143.390  32.337  1.00141.22      A16S
ATOM  26503  C2* A   A1256     238.315 140.390  32.157  1.00129.85      A16S
ATOM  26504  O2* A   A1256     239.363 139.685  32.775  1.00129.85      A16S
ATOM  26505  C3* A   A1256     237.489 139.545  31.176  1.00129.85      A16S
ATOM  26506  O3* A   A1256     237.571 138.140  31.459  1.00129.85      A16S
ATOM  26507  P   U   A1257     237.148 137.571  32.905  1.00201.26      A16S
ATOM  26508  O1P U   A1257     236.589 136.210  32.687  1.00201.26      A16S
ATOM  26509  O2P U   A1257     236.339 138.591  33.618  1.00201.26      A16S
ATOM  26510  O5* U   A1257     238.539 137.418  33.668  1.00201.26      A16S
ATOM  26511  C5* U   A1257     239.577 136.567  33.144  1.00201.26      A16S
ATOM  26512  C4* U   A1257     240.825 137.373  32.862  1.00201.26      A16S
ATOM  26513  O4* U   A1257     241.345 137.925  34.096  1.00201.26      A16S
ATOM  26514  C1* U   A1257     242.750 138.062  33.991  1.00201.26      A16S
ATOM  26515  N1  U   A1257     243.383 137.554  35.219  1.00201.26      A16S
ATOM  26516  C6  U   A1257     243.148 136.276  35.680  1.00201.26      A16S
ATOM  26517  C2  U   A1257     244.230 138.415  35.908  1.00201.26      A16S
ATOM  26518  O2  U   A1257     244.473 139.556  35.537  1.00201.26      A16S
ATOM  26519  N3  U   A1257     244.785 137.890  37.050  1.00201.26      A16S
ATOM  26520  C4  U   A1257     244.588 136.624  37.566  1.00201.26      A16S
ATOM  26521  O4  U   A1257     245.153 136.303  38.614  1.00201.26      A16S
ATOM  26522  C5  U   A1257     243.706 135.796  36.798  1.00201.26      A16S
ATOM  26523  C2* U   A1257     243.210 137.422  32.677  1.00201.26      A16S
ATOM  26524  O2* U   A1257     243.529 138.451  31.760  1.00201.26      A16S
ATOM  26525  C3* U   A1257     241.988 136.597  32.265  1.00201.26      A16S
ATOM  26526  O3* U   A1257     241.865 136.581  30.846  1.00201.26      A16S
ATOM  26527  P   G   A1258     241.175 135.332  30.105  1.00103.10      A16S
ATOM  26528  O1P G   A1258     239.775 135.207  30.606  1.00106.07      A16S
ATOM  26529  O2P G   A1258     242.100 134.167  30.196  1.00106.07      A16S
ATOM  26530  O5* G   A1258     241.122 135.814  28.586  1.00103.10      A16S
ATOM  26531  C5* G   A1258     239.886 135.835  27.851  1.00103.10      A16S
ATOM  26532  C4* G   A1258     239.858 137.009  26.899  1.00103.10      A16S
ATOM  26533  O4* G   A1258     239.626 138.243  27.624  1.00103.10      A16S
ATOM  26534  C1* G   A1258     240.306 139.312  26.987  1.00103.10      A16S
ATOM  26535  N9  G   A1258     241.242 139.907  27.941  1.00106.07      A16S
ATOM  26536  C4  G   A1258     241.731 141.198  27.932  1.00106.07      A16S
ATOM  26537  N3  G   A1258     241.411 142.168  27.047  1.00106.07      A16S
ATOM  26538  C2  G   A1258     242.054 143.299  27.298  1.00106.07      A16S
ATOM  26539  N2  G   A1258     241.845 144.375  26.528  1.00106.07      A16S
ATOM  26540  N1  G   A1258     242.949 143.460  28.323  1.00106.07      A16S
ATOM  26541  C6  G   A1258     243.301 142.476  29.239  1.00106.07      A16S
ATOM  26542  O6  G   A1258     244.138 142.722  30.119  1.00106.07      A16S
ATOM  26543  C5  G   A1258     242.606 141.264  28.996  1.00106.07      A16S
ATOM  26544  N7  G   A1258     242.653 140.053  29.671  1.00106.07      A16S
ATOM  26545  C8  G   A1258     241.829 139.282  29.017  1.00106.07      A16S
ATOM  26546  C2* G   A1258     241.002 138.741  25.749  1.00103.10      A16S
ATOM  26547  O2* G   A1258     240.184 138.941  24.615  1.00103.10      A16S
ATOM  26548  C3* G   A1258     241.131 137.267  26.115  1.00103.10      A16S
ATOM  26549  O3* G   A1258     241.241 136.424  24.980  1.00103.10      A16S
ATOM  26550  P   C   A1259     242.654 136.293  24.229  1.00 66.70      A16S
ATOM  26551  O1P C   A1259     242.543 135.180  23.254  1.00 92.85      A16S
ATOM  26552  O2P C   A1259     243.741 136.270  25.242  1.00 92.85      A16S
ATOM  26553  O5* C   A1259     242.746 137.654  23.417  1.00 66.70      A16S
ATOM  26554  C5* C   A1259     241.802 137.920  22.393  1.00 66.70      A16S
ATOM  26555  C4* C   A1259     242.099 139.234  21.752  1.00 66.70      A16S
ATOM  26556  O4* C   A1259     241.816 140.301  22.688  1.00 66.70      A16S
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ATOM  26557  C1* C   A1259     242.755 141.347  22.514  1.00 66.70      A16S
ATOM  26558  N1  C   A1259     243.510 141.494  23.776  1.00 92.85      A16S
ATOM  26559  C6  C   A1259     243.883 140.389  24.495  1.00 92.85      A16S
ATOM  26560  C2  C   A1259     243.845 142.782  24.232  1.00 92.85      A16S
ATOM  26561  O2  C   A1259     243.500 143.773  23.567  1.00 92.85      A16S
ATOM  26562  N3  C   A1259     244.538 142.907  25.387  1.00 92.85      A16S
ATOM  26563  C4  C   A1259     244.895 141.817  26.077  1.00 92.85      A16S
ATOM  26564  N4  C   A1259     245.576 141.987  27.211  1.00 92.85      A16S
ATOM  26565  C5  C   A1259     244.570 140.504  25.636  1.00 92.85      A16S
ATOM  26566  C2* C   A1259     243.648 140.966  21.327  1.00 66.70      A16S
ATOM  26567  O2* C   A1259     243.106 141.546  20.154  1.00 66.70      A16S
ATOM  26568  C3* C   A1259     243.544 139.444  21.344  1.00 66.70      A16S
ATOM  26569  O3* C   A1259     243.827 138.819  20.096  1.00 66.70      A16S
ATOM  26570  P   C   A1260     245.190 137.990  19.917  1.00110.23      A16S
ATOM  26571  O1P C   A1260     245.128 137.268  18.627  1.00 87.42      A16S
ATOM  26572  O2P C   A1260     245.459 137.229  21.166  1.00 87.42      A16S
ATOM  26573  O5* C   A1260     246.259 139.154  19.763  1.00110.23      A16S
ATOM  26574  C5* C   A1260     247.544 139.081  20.390  1.00110.23      A16S
ATOM  26575  C4* C   A1260     247.873 140.406  21.029  1.00110.23      A16S
ATOM  26576  O4* C   A1260     247.019 140.601  22.186  1.00110.23      A16S
ATOM  26577  C1* C   A1260     247.752 141.238  23.217  1.00110.23      A16S
ATOM  26578  N1  C   A1260     247.847 140.305  24.359  1.00 87.42      A16S
ATOM  26579  C6  C   A1260     247.637 138.964  24.186  1.00 87.42      A16S
ATOM  26580  C2  C   A1260     248.156 140.811  25.633  1.00 87.42      A16S
ATOM  26581  O2  C   A1260     248.357 142.032  25.769  1.00 87.42      A16S
ATOM  26582  N3  C   A1260     248.229 139.958  26.681  1.00 87.42      A16S
ATOM  26583  C4  C   A1260     248.009 138.655  26.499  1.00 87.42      A16S
ATOM  26584  N4  C   A1260     248.076 137.853  27.566  1.00 87.42      A16S
ATOM  26585  C5  C   A1260     247.707 138.113  25.217  1.00 87.42      A16S
ATOM  26586  C2* C   A1260     249.121 141.605  22.644  1.00110.23      A16S
ATOM  26587  O2* C   A1260     249.055 142.913  22.105  1.00110.23      A16S
ATOM  26588  C3* C   A1260     249.287 140.544  21.565  1.00110.23      A16S
ATOM  26589  O3* C   A1260     250.162 140.947  20.523  1.00110.23      A16S
ATOM  26590  P   A   A1261     251.723 141.161  20.825  1.00 93.89      A16S
ATOM  26591  O1P A   A1261     252.477 140.495  19.729  1.00109.38      A16S
ATOM  26592  O2P A   A1261     251.990 140.774  22.238  1.00109.38      A16S
ATOM  26593  O5* A   A1261     251.899 142.735  20.645  1.00 93.89      A16S
ATOM  26594  C5* A   A1261     251.197 143.424  19.590  1.00 93.89      A16S
ATOM  26595  C4* A   A1261     251.383 144.920  19.705  1.00 93.89      A16S
ATOM  26596  O4* A   A1261     250.832 145.387  20.963  1.00 93.89      A16S
ATOM  26597  C1* A   A1261     251.630 146.442  21.476  1.00 93.89      A16S
ATOM  26598  N9  A   A1261     252.233 145.987  22.730  1.00109.38      A16S
ATOM  26599  C4  A   A1261     253.092 146.702  23.527  1.00109.38      A16S
ATOM  26600  N3  A   A1261     253.541 147.952  23.324  1.00109.38      A16S
ATOM  26601  C2  A   A1261     254.359 148.314  24.304  1.00109.38      A16S
ATOM  26602  N1  A   A1261     254.746 147.620  25.383  1.00109.38      A16S
ATOM  26603  C6  A   A1261     254.270 146.368  25.552  1.00109.38      A16S
ATOM  26604  N6  A   A1261     254.643 145.675  26.630  1.00109.38      A16S
ATOM  26605  C5  A   A1261     253.404 145.869  24.583  1.00109.38      A16S
ATOM  26606  N7  A   A1261     252.759 144.652  24.457  1.00109.38      A16S
ATOM  26607  C8  A   A1261     252.077 144.772  23.348  1.00109.38      A16S
ATOM  26608  C2* A   A1261     252.701 146.754  20.431  1.00 93.89      A16S
ATOM  26609  O2* A   A1261     252.249 147.804  19.600  1.00 93.89      A16S
ATOM  26610  C3* A   A1261     252.817 145.416  19.713  1.00 93.89      A16S
ATOM  26611  O3* A   A1261     253.356 145.546  18.409  1.00 93.89      A16S
ATOM  26612  P   C   A1262     254.832 144.988  18.113  1.00104.98      A16S
ATOM  26613  O1P C   A1262     255.329 145.710  16.915  1.00 99.32      A16S
ATOM  26614  O2P C   A1262     254.801 143.502  18.121  1.00 99.32      A16S
ATOM  26615  O5* C   A1262     255.676 145.445  19.384  1.00104.98      A16S
ATOM  26616  C5* C   A1262     256.078 146.820  19.566  1.00104.98      A16S
ATOM  26617  C4* C   A1262     256.964 146.943  20.784  1.00104.98      A16S
ATOM  26618  O4* C   A1262     256.173 146.693  21.973  1.00104.98      A16S
ATOM  26619  C1* C   A1262     256.949 145.981  22.920  1.00104.98      A16S
ATOM  26620  N1  C   A1262     256.265 144.715  23.240  1.00 99.32      A16S
ATOM  26621  C6  C   A1262     255.404 144.132  22.349  1.00 99.32      A16S
ATOM  26622  C2  C   A1262     256.507 144.116  24.483  1.00 99.32      A16S
ATOM  26623  O2  C   A1262     257.313 144.649  25.264  1.00 99.32      A16S
ATOM  26624  N3  C   A1262     255.863 142.970  24.800  1.00 99.32      A16S
ATOM  26625  C4  C   A1262     255.020 142.415  23.927  1.00 99.32      A16S
ATOM  26626  N4  C   A1262     254.402 141.285  24.287  1.00 99.32      A16S
ATOM  26627  C5  C   A1262     254.770 142.993  22.647  1.00 99.32      A16S
ATOM  26628  C2* C   A1262     258.356 145.793  22.348  1.00104.98      A16S
ATOM  26629  O2* C   A1262     259.206 146.786  22.880  1.00104.98      A16S
ATOM  26630  C3* C   A1262     258.107 145.937  20.850  1.00104.98      A16S
ATOM  26631  O3* C   A1262     259.254 146.386  20.125  1.00104.98      A16S
ATOM  26632  P   C   A1263     260.325 145.316  19.579  1.00 91.27      A16S
ATOM  26633  O1P C   A1263     261.327 146.080  18.793  1.00115.96      A16S
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ATOM  26634  O2P C   A1263     259.618 144.179  18.946  1.00115.96      A16S
ATOM  26635  O5* C   A1263     261.022 144.778  20.905  1.00 91.27      A16S
ATOM  26636  C5* C   A1263     261.747 145.684  21.755  1.00 91.27      A16S
ATOM  26637  C4* C   A1263     262.254 144.973  22.982  1.00 91.27      A16S
ATOM  26638  O4* C   A1263     261.159 144.640  23.866  1.00 91.27      A16S
ATOM  26639  C1* C   A1263     261.447 143.425  24.533  1.00 91.27      A16S
ATOM  26640  N1   C   A1263     260.347 142.473  24.302  1.00115.96      A16S
ATOM  26641  C6   C   A1263     259.383 142.707  23.360  1.00115.96      A16S
ATOM  26642  C2   C   A1263     260.307 141.309  25.078  1.00115.96      A16S
ATOM  26643  O2   C   A1263     261.204 141.115  25.918  1.00115.96      A16S
ATOM  26644  N3   C   A1263     259.303 140.425  24.893  1.00115.96      A16S
ATOM  26645  C4   C   A1263     258.368 140.662  23.975  1.00115.96      A16S
ATOM  26646  N4   C   A1263     257.395 139.759  23.832  1.00115.96      A16S
ATOM  26647  C5   C   A1263     258.387 141.836  23.163  1.00115.96      A16S
ATOM  26648  C2* C   A1263     262.800 142.913  24.035  1.00 91.27      A16S
ATOM  26649  O2* C   A1263     263.797 143.228  24.983  1.00 91.27      A16S
ATOM  26650  C3* C   A1263     262.949 143.657  22.714  1.00 91.27      A16S
ATOM  26651  O3* C   A1263     264.296 143.874  22.348  1.00 91.27      A16S
ATOM  26652  P    C   A1264     265.000 142.871  21.316  1.00 69.53      A16S
ATOM  26653  O1P C   A1264     266.326 143.448  20.981  1.00124.85      A16S
ATOM  26654  O2P C   A1264     264.028 142.596  20.225  1.00124.85      A16S
ATOM  26655  O5* C   A1264     265.215 141.542  22.180  1.00 69.53      A16S
ATOM  26656  C5* C   A1264     266.010 141.583  23.373  1.00 69.53      A16S
ATOM  26657  C4* C   A1264     265.769 140.365  24.231  1.00 69.53      A16S
ATOM  26658  O4* C   A1264     264.414 140.352  24.743  1.00 69.53      A16S
ATOM  26659  C1* C   A1264     264.012 139.008  24.968  1.00 69.53      A16S
ATOM  26660  N1   C   A1264     262.758 138.746  24.234  1.00124.85      A16S
ATOM  26661  C6   C   A1264     262.411 139.495  23.144  1.00124.85      A16S
ATOM  26662  C2   C   A1264     261.926 137.697  24.665  1.00124.85      A16S
ATOM  26663  O2   C   A1264     262.249 137.037  25.667  1.00124.85      A16S
ATOM  26664  N3   C   A1264     260.793 137.431  23.977  1.00124.85      A16S
ATOM  26665  C4   C   A1264     260.475 138.160  22.907  1.00124.85      A16S
ATOM  26666  N4   C   A1264     259.358 137.849  22.249  1.00124.85      A16S
ATOM  26667  C5   C   A1264     261.291 139.239  22.458  1.00124.85      A16S
ATOM  26668  C2* C   A1264     265.156 138.089  24.526  1.00 69.53      A16S
ATOM  26669  O2* C   A1264     265.886 137.649  25.656  1.00 69.53      A16S
ATOM  26670  C3* C   A1264     265.952 139.000  23.594  1.00 69.53      A16S
ATOM  26671  O3* C   A1264     267.320 138.633  23.559  1.00 69.53      A16S
ATOM  26672  P    G   A1265     267.848 137.643  22.411  1.00 85.94      A16S
ATOM  26673  O1P G   A1265     269.330 137.632  22.499  1.00 99.84      A16S
ATOM  26674  O2P G   A1265     267.190 138.003  21.127  1.00 99.84      A16S
ATOM  26675  O5* G   A1265     267.333 136.214  22.876  1.00 85.94      A16S
ATOM  26676  C5* G   A1265     267.949 135.563  23.988  1.00 85.94      A16S
ATOM  26677  C4* G   A1265     267.250 134.269  24.289  1.00 85.94      A16S
ATOM  26678  O4* G   A1265     265.917 134.538  24.795  1.00 85.94      A16S
ATOM  26679  C1* G   A1265     265.036 133.499  24.390  1.00 85.94      A16S
ATOM  26680  N9   G   A1265     263.997 134.075  23.538  1.00 99.84      A16S
ATOM  26681  C4   G   A1265     262.817 133.469  23.170  1.00 99.84      A16S
ATOM  26682  N3   G   A1265     262.414 132.232  23.532  1.00 99.84      A16S
ATOM  26683  C2   G   A1265     261.236 131.932  23.023  1.00 99.84      A16S
ATOM  26684  N2   G   A1265     260.693 130.731  23.272  1.00 99.84      A16S
ATOM  26685  N1   G   A1265     260.505 132.785  22.228  1.00 99.84      A16S
ATOM  26686  C6   G   A1265     260.902 134.065  21.847  1.00 99.84      A16S
ATOM  26687  O6   G   A1265     260.165 134.759  21.135  1.00 99.84      A16S
ATOM  26688  C5   G   A1265     262.166 134.391  22.374  1.00 99.84      A16S
ATOM  26689  N7   G   A1265     262.924 135.544  22.234  1.00 99.84      A16S
ATOM  26690  C8   G   A1265     263.997 135.314  22.940  1.00 99.84      A16S
ATOM  26691  C2* G   A1265     265.867 132.475  23.621  1.00 85.94      A16S
ATOM  26692  O2* G   A1265     266.322 131.451  24.490  1.00 85.94      A16S
ATOM  26693  C3* G   A1265     267.005 133.344  23.112  1.00 85.94      A16S
ATOM  26694  O3* G   A1265     268.126 132.587  22.711  1.00 85.94      A16S
ATOM  26695  P    G   A1266     268.344 132.304  21.147  1.00110.22      A16S
ATOM  26696  O1P G   A1266     269.630 131.578  21.005  1.00 70.63      A16S
ATOM  26697  O2P G   A1266     268.131 133.592  20.417  1.00 70.63      A16S
ATOM  26698  O5* G   A1266     267.163 131.300  20.770  1.00110.22      A16S
ATOM  26699  C5* G   A1266     267.180 129.938  21.246  1.00110.22      A16S
ATOM  26700  C4* G   A1266     265.979 129.170  20.734  1.00110.22      A16S
ATOM  26701  O4* G   A1266     264.763 129.721  21.305  1.00110.22      A16S
ATOM  26702  C1* G   A1266     263.697 129.591  20.378  1.00110.22      A16S
ATOM  26703  N9   G   A1266     263.290 130.925  19.943  1.00 70.63      A16S
ATOM  26704  C4   G   A1266     262.041 131.293  19.502  1.00 70.63      A16S
ATOM  26705  N3   G   A1266     260.948 130.499  19.458  1.00 70.63      A16S
ATOM  26706  C2   G   A1266     259.899 131.129  18.945  1.00 70.63      A16S
ATOM  26707  N2   G   A1266     258.726 130.492  18.824  1.00 70.63      A16S
ATOM  26708  N1   G   A1266     259.921 132.429  18.509  1.00 70.63      A16S
ATOM  26709  C6   G   A1266     261.031 133.267  18.544  1.00 70.63      A16S
ATOM  26710  O6   G   A1266     260.941 134.428  18.110  1.00 70.63      A16S
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ATOM  26711  C5  G   A1266     262.167 132.608  19.101  1.00 70.63      A16S
ATOM  26712  N7  G   A1266     263.458 133.071  19.324  1.00 70.63      A16S
ATOM  26713  C8  G   A1266     264.084 132.044  19.833  1.00 70.63      A16S
ATOM  26714  C2* G   A1266     264.244 128.829  19.173  1.00110.22      A16S
ATOM  26715  O2* G   A1266     264.048 127.437  19.336  1.00110.22      A16S
ATOM  26716  C3* G   A1266     265.716 129.194  19.235  1.00110.22      A16S
ATOM  26717  O3* G   A1266     266.508 128.295  18.478  1.00110.22      A16S
ATOM  26718  P   C   A1267     267.262 128.835  17.162  1.00 95.44      A16S
ATOM  26719  O1P C   A1267     267.982 127.683  16.557  1.00 86.42      A16S
ATOM  26720  O2P C   A1267     268.013 130.070  17.520  1.00 86.42      A16S
ATOM  26721  O5* C   A1267     266.105 129.292  16.165  1.00 95.44      A16S
ATOM  26722  C5* C   A1267     266.398 130.198  15.076  1.00 95.44      A16S
ATOM  26723  C4* C   A1267     265.529 129.890  13.875  1.00 95.44      A16S
ATOM  26724  O4* C   A1267     265.774 128.535  13.422  1.00 95.44      A16S
ATOM  26725  C1* C   A1267     264.570 127.967  12.946  1.00 95.44      A16S
ATOM  26726  N1  C   A1267     264.295 126.747  13.726  1.00 86.42      A16S
ATOM  26727  C6  C   A1267     264.517 126.714  15.075  1.00 86.42      A16S
ATOM  26728  C2  C   A1267     263.811 125.612  13.064  1.00 86.42      A16S
ATOM  26729  O2  C   A1267     263.601 125.667  11.841  1.00 86.42      A16S
ATOM  26730  N3  C   A1267     263.583 124.483  13.772  1.00 86.42      A16S
ATOM  26731  C4  C   A1267     263.815 124.460  15.085  1.00 86.42      A16S
ATOM  26732  N4  C   A1267     263.587 123.320  15.741  1.00 86.42      A16S
ATOM  26733  C5  C   A1267     264.295 125.602  15.785  1.00 86.42      A16S
ATOM  26734  C2* C   A1267     263.475 129.032  13.039  1.00 95.44      A16S
ATOM  26735  O2* C   A1267     263.358 129.675  11.785  1.00 95.44      A16S
ATOM  26736  C3* C   A1267     264.030 129.963  14.110  1.00 95.44      A16S
ATOM  26737  O3* C   A1267     263.578 131.298  13.931  1.00 95.44      A16S
ATOM  26738  P   A   A1268     262.702 132.002  15.076  1.00 98.49      A16S
ATOM  26739  O1P A   A1268     262.526 133.426  14.675  1.00 64.08      A16S
ATOM  26740  O2P A   A1268     263.312 131.678  16.390  1.00 64.08      A16S
ATOM  26741  O5* A   A1268     261.298 131.250  15.005  1.00 98.49      A16S
ATOM  26742  C5* A   A1268     260.515 131.263  13.797  1.00 98.49      A16S
ATOM  26743  C4* A   A1268     259.509 130.136  13.807  1.00 98.49      A16S
ATOM  26744  O4* A   A1268     260.194 128.867  13.873  1.00 98.49      A16S
ATOM  26745  C1* A   A1268     259.418 127.947  14.609  1.00 98.49      A16S
ATOM  26746  N9  A   A1268     260.246 127.431  15.689  1.00 64.08      A16S
ATOM  26747  C4  A   A1268     260.285 126.132  16.127  1.00 64.08      A16S
ATOM  26748  N3  A   A1268     259.572 125.096  15.662  1.00 64.08      A16S
ATOM  26749  C2  A   A1268     259.884 123.976  16.317  1.00 64.08      A16S
ATOM  26750  N1  A   A1268     260.760 123.788  17.315  1.00 64.08      A16S
ATOM  26751  C6  A   A1268     261.460 124.854  17.762  1.00 64.08      A16S
ATOM  26752  N6  A   A1268     262.328 124.669  18.761  1.00 64.08      A16S
ATOM  26753  C5  A   A1268     261.223 126.103  17.140  1.00 64.08      A16S
ATOM  26754  N7  A   A1268     261.762 127.367  17.340  1.00 64.08      A16S
ATOM  26755  C8  A   A1268     261.148 128.116  16.459  1.00 64.08      A16S
ATOM  26756  C2* A   A1268     258.144 128.650  15.073  1.00 98.49      A16S
ATOM  26757  O2* A   A1268     257.091 128.313  14.194  1.00 98.49      A16S
ATOM  26758  C3* A   A1268     258.542 130.117  14.974  1.00 98.49      A16S
ATOM  26759  O3* A   A1268     257.427 130.925  14.656  1.00 98.49      A16S
ATOM  26760  P   A   A1269     256.623 131.660  15.824  1.00 56.42      A16S
ATOM  26761  O1P A   A1269     255.879 132.780  15.180  1.00 78.86      A16S
ATOM  26762  O2P A   A1269     257.587 131.945  16.918  1.00 78.86      A16S
ATOM  26763  O5* A   A1269     255.597 130.558  16.355  1.00 56.42      A16S
ATOM  26764  C5* A   A1269     254.505 130.099  15.535  1.00 56.42      A16S
ATOM  26765  C4* A   A1269     254.013 128.763  16.031  1.00 56.42      A16S
ATOM  26766  O4* A   A1269     255.110 127.826  16.013  1.00 56.42      A16S
ATOM  26767  C1* A   A1269     254.974 126.919  17.084  1.00 56.42      A16S
ATOM  26768  N9  A   A1269     256.209 126.924  17.852  1.00 78.86      A16S
ATOM  26769  C4  A   A1269     256.822 125.812  18.361  1.00 78.86      A16S
ATOM  26770  N3  A   A1269     256.418 124.535  18.240  1.00 78.86      A16S
ATOM  26771  C2  A   A1269     257.260 123.719  18.868  1.00 78.86      A16S
ATOM  26772  N1  A   A1269     258.374 124.014  19.551  1.00 78.86      A16S
ATOM  26773  C6  A   A1269     258.749 125.310  19.647  1.00 78.86      A16S
ATOM  26774  N6  A   A1269     259.863 125.608  20.319  1.00 78.86      A16S
ATOM  26775  C5  A   A1269     257.939 126.271  19.026  1.00 78.86      A16S
ATOM  26776  N7  A   A1269     258.033 127.651  18.931  1.00 78.86      A16S
ATOM  26777  C8  A   A1269     256.985 127.988  18.224  1.00 78.86      A16S
ATOM  26778  C2* A   A1269     253.755 127.313  17.916  1.00 56.42      A16S
ATOM  26779  O2* A   A1269     252.684 126.420  17.681  1.00 56.42      A16S
ATOM  26780  C3* A   A1269     253.504 128.747  17.463  1.00 56.42      A16S
ATOM  26781  O3* A   A1269     252.112 129.014  17.475  1.00 56.42      A16S
ATOM  26782  P   C   A1270     251.528 130.186  18.392  1.00 82.52      A16S
ATOM  26783  O1P C   A1270     250.079 129.896  18.530  1.00 68.95      A16S
ATOM  26784  O2P C   A1270     251.966 131.472  17.790  1.00 68.95      A16S
ATOM  26785  O5* C   A1270     252.237 129.975  19.809  1.00 82.52      A16S
ATOM  26786  C5* C   A1270     252.005 128.775  20.578  1.00 82.52      A16S
ATOM  26787  C4* C   A1270     253.192 128.458  21.473  1.00 82.52      A16S
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ATOM  26788  O4*  C   A1270     254.414 128.564  20.693  1.00 82.52      A16S
ATOM  26789  C1*  C   A1270     255.483 128.990  21.525  1.00 82.52      A16S
ATOM  26790  N1   C   A1270     255.921 130.335  21.092  1.00 68.95      A16S
ATOM  26791  C6   C   A1270     255.082 131.157  20.389  1.00 68.95      A16S
ATOM  26792  C2   C   A1270     257.218 130.772  21.431  1.00 68.95      A16S
ATOM  26793  O2   C   A1270     257.973 130.005  22.065  1.00 68.95      A16S
ATOM  26794  N3   C   A1270     257.611 132.018  21.059  1.00 68.95      A16S
ATOM  26795  C4   C   A1270     256.775 132.810  20.381  1.00 68.95      A16S
ATOM  26796  N4   C   A1270     257.200 134.032  20.044  1.00 68.95      A16S
ATOM  26797  C5   C   A1270     255.463 132.388  20.020  1.00 68.95      A16S
ATOM  26798  C2*  C   A1270     254.939 129.055  22.945  1.00 82.52      A16S
ATOM  26799  O2*  C   A1270     255.132 127.804  23.580  1.00 82.52      A16S
ATOM  26800  C3*  C   A1270     253.469 129.341  22.686  1.00 82.52      A16S
ATOM  26801  O3*  C   A1270     252.702 129.028  23.842  1.00 82.52      A16S
ATOM  26802  P    G   A1271     252.560 130.121  25.017  1.00105.12      A16S
ATOM  26803  O1P  G   A1271     251.603 129.580  26.010  1.00 69.99      A16S
ATOM  26804  O2P  G   A1271     252.300 131.448  24.397  1.00 69.99      A16S
ATOM  26805  O5*  G   A1271     254.006 130.165  25.693  1.00105.12      A16S
ATOM  26806  C5*  G   A1271     254.548 129.011  26.379  1.00105.12      A16S
ATOM  26807  C4*  G   A1271     255.922 129.318  26.952  1.00105.12      A16S
ATOM  26808  O4*  G   A1271     256.863 129.583  25.878  1.00105.12      A16S
ATOM  26809  C1*  G   A1271     257.797 130.571  26.284  1.00105.12      A16S
ATOM  26810  N9   G   A1271     257.602 131.756  25.455  1.00 69.99      A16S
ATOM  26811  C4   G   A1271     258.450 132.834  25.349  1.00 69.99      A16S
ATOM  26812  N3   G   A1271     259.621 132.993  26.002  1.00 69.99      A16S
ATOM  26813  C2   G   A1271     260.199 134.149  25.706  1.00 69.99      A16S
ATOM  26814  N2   G   A1271     261.360 134.493  26.296  1.00 69.99      A16S
ATOM  26815  N1   G   A1271     259.680 135.057  24.822  1.00 69.99      A16S
ATOM  26816  C6   G   A1271     258.481 134.910  24.136  1.00 69.99      A16S
ATOM  26817  O6   G   A1271     258.103 135.794  23.361  1.00 69.99      A16S
ATOM  26818  C5   G   A1271     257.840 133.691  24.460  1.00 69.99      A16S
ATOM  26819  N7   G   A1271     256.632 133.170  24.022  1.00 69.99      A16S
ATOM  26820  C8   G   A1271     256.534 132.024  24.636  1.00 69.99      A16S
ATOM  26821  C2*  G   A1271     257.510 130.892  27.744  1.00105.12      A16S
ATOM  26822  O2*  G   A1271     258.318 130.072  28.562  1.00105.12      A16S
ATOM  26823  C3*  G   A1271     256.032 130.544  27.843  1.00105.12      A16S
ATOM  26824  O3*  G   A1271     255.648 130.298  29.182  1.00105.12      A16S
ATOM  26825  P    G   A1272     255.238 131.537  30.119  1.00116.50      A16S
ATOM  26826  O1P  G   A1272     254.804 130.954  31.420  1.00 60.01      A16S
ATOM  26827  O2P  G   A1272     254.317 132.434  29.362  1.00 60.01      A16S
ATOM  26828  O5*  G   A1272     256.602 132.340  30.308  1.00116.50      A16S
ATOM  26829  C5*  G   A1272     257.600 131.930  31.268  1.00116.50      A16S
ATOM  26830  C4*  G   A1272     258.602 133.042  31.474  1.00116.50      A16S
ATOM  26831  O4*  G   A1272     259.305 133.269  30.224  1.00116.50      A16S
ATOM  26832  C1*  G   A1272     259.462 134.659  30.002  1.00116.50      A16S
ATOM  26833  N9   G   A1272     258.645 135.011  28.846  1.00 60.01      A16S
ATOM  26834  C4   G   A1272     258.738 136.150  28.079  1.00 60.01      A16S
ATOM  26835  N3   G   A1272     259.634 137.146  28.236  1.00 60.01      A16S
ATOM  26836  C2   G   A1272     259.445 138.126  27.361  1.00 60.01      A16S
ATOM  26837  N2   G   A1272     260.241 139.202  27.384  1.00 60.01      A16S
ATOM  26838  N1   G   A1272     258.459 138.126  26.404  1.00 60.01      A16S
ATOM  26839  C6   G   A1272     257.530 137.109  26.219  1.00 60.01      A16S
ATOM  26840  O6   G   A1272     256.678 137.206  25.323  1.00 60.01      A16S
ATOM  26841  C5   G   A1272     257.720 136.050  27.154  1.00 60.01      A16S
ATOM  26842  N7   G   A1272     257.023 134.863  27.318  1.00 60.01      A16S
ATOM  26843  C8   G   A1272     257.608 134.280  28.327  1.00 60.01      A16S
ATOM  26844  C2*  G   A1272     258.980 135.383  31.259  1.00116.50      A16S
ATOM  26845  O2*  G   A1272     260.068 135.618  32.126  1.00116.50      A16S
ATOM  26846  C3*  G   A1272     257.977 134.386  31.819  1.00116.50      A16S
ATOM  26847  O3*  G   A1272     257.749 134.538  33.217  1.00116.50      A16S
ATOM  26848  P    G   A1273     256.563 135.500  33.726  1.00 97.08      A16S
ATOM  26849  O1P  G   A1273     256.505 135.372  35.207  1.00100.71      A16S
ATOM  26850  O2P  G   A1273     255.342 135.242  32.920  1.00100.71      A16S
ATOM  26851  O5*  G   A1273     257.075 136.960  33.347  1.00 97.08      A16S
ATOM  26852  C5*  G   A1273     258.317 137.450  33.867  1.00 97.08      A16S
ATOM  26853  C4*  G   A1273     258.762 138.682  33.118  1.00 97.08      A16S
ATOM  26854  O4*  G   A1273     258.981 138.358  31.721  1.00 97.08      A16S
ATOM  26855  C1*  G   A1273     258.736 139.507  30.928  1.00 97.08      A16S
ATOM  26856  N9   G   A1273     257.680 139.220  29.963  1.00100.71      A16S
ATOM  26857  C4   G   A1273     257.378 139.990  28.868  1.00100.71      A16S
ATOM  26858  N3   G   A1273     258.023 141.113  28.492  1.00100.71      A16S
ATOM  26859  C2   G   A1273     257.496 141.644  27.407  1.00100.71      A16S
ATOM  26860  N2   G   A1273     258.013 142.768  26.900  1.00100.71      A16S
ATOM  26861  N1   G   A1273     256.423 141.114  26.742  1.00100.71      A16S
ATOM  26862  C6   G   A1273     255.742 139.960  27.111  1.00100.71      A16S
ATOM  26863  O6   G   A1273     254.780 139.573  26.441  1.00100.71      A16S
ATOM  26864  C5   G   A1273     256.298 139.379  28.277  1.00100.71      A16S
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ATOM  26865  N7  G   A1273     255.934 138.236  28.977  1.00100.71      A16S
ATOM  26866  C8  G   A1273     256.784 138.178  29.966  1.00100.71      A16S
ATOM  26867  C2* G   A1273     258.297 140.636  31.860  1.00 97.08      A16S
ATOM  26868  O2* G   A1273     259.396 141.480  32.138  1.00 97.08      A16S
ATOM  26869  C3* G   A1273     257.802 139.859  33.073  1.00 97.08      A16S
ATOM  26870  O3* G   A1273     257.830 140.659  34.245  1.00 97.08      A16S
ATOM  26871  P   G   A1274     256.499 141.436  34.702  1.00 92.87      A16S
ATOM  26872  O1P G   A1274     256.866 142.295  35.858  1.00141.34      A16S
ATOM  26873  O2P G   A1274     255.413 140.430  34.852  1.00141.34      A16S
ATOM  26874  O5* G   A1274     256.143 142.384  33.468  1.00 92.87      A16S
ATOM  26875  C5* G   A1274     256.958 143.530  33.162  1.00 92.87      A16S
ATOM  26876  C4* G   A1274     256.430 144.250  31.942  1.00 92.87      A16S
ATOM  26877  O4* G   A1274     256.514 143.373  30.789  1.00 92.87      A16S
ATOM  26878  C1* G   A1274     255.414 143.613  29.920  1.00 92.87      A16S
ATOM  26879  N9  G   A1274     254.609 142.393  29.847  1.00141.34      A16S
ATOM  26880  C4  G   A1274     253.570 142.135  28.974  1.00141.34      A16S
ATOM  26881  N3  G   A1274     253.127 142.954  27.997  1.00141.34      A16S
ATOM  26882  C2  G   A1274     252.102 142.432  27.343  1.00141.34      A16S
ATOM  26883  N2  G   A1274     251.539 143.104  26.340  1.00141.34      A16S
ATOM  26884  N1  G   A1274     251.551 141.212  27.624  1.00141.34      A16S
ATOM  26885  C6  G   A1274     251.983 140.353  28.624  1.00141.34      A16S
ATOM  26886  O6  G   A1274     251.400 139.276  28.803  1.00141.34      A16S
ATOM  26887  C5  G   A1274     253.092 140.892  29.332  1.00141.34      A16S
ATOM  26888  N7  G   A1274     253.826 140.367  30.388  1.00141.34      A16S
ATOM  26889  C8  G   A1274     254.713 141.286  30.657  1.00141.34      A16S
ATOM  26890  C2* G   A1274     254.615 144.782  30.505  1.00 92.87      A16S
ATOM  26891  O2* G   A1274     255.022 146.010  29.926  1.00 92.87      A16S
ATOM  26892  C3* G   A1274     254.973 144.690  31.983  1.00 92.87      A16S
ATOM  26893  O3* G   A1274     254.780 145.935  32.654  1.00 92.87      A16S
ATOM  26894  P   A   A1275     253.287 146.415  33.038  1.00 98.43      A16S
ATOM  26895  O1P A   A1275     253.386 147.198  34.300  1.00122.69      A16S
ATOM  26896  O2P A   A1275     252.356 145.255  32.969  1.00122.69      A16S
ATOM  26897  O5* A   A1275     252.912 147.433  31.874  1.00 98.43      A16S
ATOM  26898  C5* A   A1275     253.673 148.631  31.704  1.00 98.43      A16S
ATOM  26899  C4* A   A1275     253.306 149.320  30.419  1.00 98.43      A16S
ATOM  26900  O4* A   A1275     253.635 148.473  29.286  1.00 98.43      A16S
ATOM  26901  C1* A   A1275     252.762 148.773  28.206  1.00 98.43      A16S
ATOM  26902  N9  A   A1275     252.036 147.564  27.804  1.00122.69      A16S
ATOM  26903  C4  A   A1275     251.268 147.447  26.668  1.00122.69      A16S
ATOM  26904  N3  A   A1275     251.071 148.377  25.716  1.00122.69      A16S
ATOM  26905  C2  A   A1275     250.250 147.921  24.776  1.00122.69      A16S
ATOM  26906  N1  A   A1275     249.645 146.732  24.684  1.00122.69      A16S
ATOM  26907  C6  A   A1275     249.862 145.820  25.658  1.00122.69      A16S
ATOM  26908  N6  A   A1275     249.253 144.637  25.569  1.00122.69      A16S
ATOM  26909  C5  A   A1275     250.719 146.180  26.712  1.00122.69      A16S
ATOM  26910  N7  A   A1275     251.150 145.497  27.842  1.00122.69      A16S
ATOM  26911  C8  A   A1275     251.933 146.356  28.450  1.00122.69      A16S
ATOM  26912  C2* A   A1275     251.792 149.853  28.688  1.00 98.43      A16S
ATOM  26913  O2* A   A1275     252.257 151.123  28.271  1.00 98.43      A16S
ATOM  26914  C3* A   A1275     251.845 149.669  30.199  1.00 98.43      A16S
ATOM  26915  O3* A   A1275     251.443 150.849  30.872  1.00 98.43      A16S
ATOM  26916  P   G   A1276     249.899 151.038  31.279  1.00107.49      A16S
ATOM  26917  O1P G   A1276     249.760 152.339  31.973  1.00 99.77      A16S
ATOM  26918  O2P G   A1276     249.454 149.797  31.960  1.00 99.77      A16S
ATOM  26919  O5* G   A1276     249.136 151.164  29.885  1.00107.49      A16S
ATOM  26920  C5* G   A1276     249.285 152.339  29.057  1.00107.49      A16S
ATOM  26921  C4* G   A1276     248.407 152.236  27.824  1.00107.49      A16S
ATOM  26922  O4* G   A1276     248.864 151.133  26.990  1.00107.49      A16S
ATOM  26923  C1* G   A1276     247.748 150.423  26.472  1.00107.49      A16S
ATOM  26924  N9  G   A1276     247.682 149.139  27.170  1.00 99.77      A16S
ATOM  26925  C4  G   A1276     247.270 147.927  26.660  1.00 99.77      A16S
ATOM  26926  N3  G   A1276     246.851 147.694  25.399  1.00 99.77      A16S
ATOM  26927  C2  G   A1276     246.518 146.429  25.221  1.00 99.77      A16S
ATOM  26928  N2  G   A1276     246.075 146.021  24.031  1.00 99.77      A16S
ATOM  26929  N1  G   A1276     246.594 145.470  26.197  1.00 99.77      A16S
ATOM  26930  C6  G   A1276     247.027 145.687  27.500  1.00 99.77      A16S
ATOM  26931  O6  G   A1276     247.066 144.749  28.307  1.00 99.77      A16S
ATOM  26932  C5  G   A1276     247.381 147.034  27.708  1.00 99.77      A16S
ATOM  26933  N7  G   A1276     247.850 147.666  28.849  1.00 99.77      A16S
ATOM  26934  C8  G   A1276     248.014 148.906  28.486  1.00 99.77      A16S
ATOM  26935  C2* G   A1276     246.513 151.266  26.783  1.00107.49      A16S
ATOM  26936  O2* G   A1276     246.291 152.207  25.749  1.00107.49      A16S
ATOM  26937  C3* G   A1276     246.938 151.934  28.081  1.00107.49      A16S
ATOM  26938  O3* G   A1276     246.163 153.078  28.404  1.00107.49      A16S
ATOM  26939  P   C   A1277     245.013 152.954  29.523  1.00151.22      A16S
ATOM  26940  O1P C   A1277     244.697 154.322  29.995  1.00107.25      A16S
ATOM  26941  O2P C   A1277     245.423 151.909  30.507  1.00107.25      A16S
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ATOM  26942  O5* C   A1277     243.744 152.417  28.722  1.00151.22      A16S
ATOM  26943  C5* C   A1277     243.189 153.180  27.634  1.00151.22      A16S
ATOM  26944  C4* C   A1277     242.390 152.288  26.712  1.00151.22      A16S
ATOM  26945  O4* C   A1277     243.212 151.149  26.332  1.00151.22      A16S
ATOM  26946  C1* C   A1277     242.390 150.013  26.133  1.00151.22      A16S
ATOM  26947  N1  C   A1277     242.798 148.944  27.072  1.00107.25      A16S
ATOM  26948  C6  C   A1277     242.356 148.931  28.370  1.00107.25      A16S
ATOM  26949  C2  C   A1277     243.633 147.927  26.607  1.00107.25      A16S
ATOM  26950  O2  C   A1277     244.046 147.974  25.439  1.00107.25      A16S
ATOM  26951  N3  C   A1277     243.975 146.917  27.442  1.00107.25      A16S
ATOM  26952  C4  C   A1277     243.526 146.907  28.697  1.00107.25      A16S
ATOM  26953  N4  C   A1277     243.884 145.889  29.478  1.00107.25      A16S
ATOM  26954  C5  C   A1277     242.690 147.941  29.206  1.00107.25      A16S
ATOM  26955  C2* C   A1277     240.945 150.459  26.336  1.00151.22      A16S
ATOM  26956  O2* C   A1277     240.415 150.853  25.089  1.00151.22      A16S
ATOM  26957  C3* C   A1277     241.121 151.651  27.266  1.00151.22      A16S
ATOM  26958  O3* C   A1277     239.979 152.502  27.209  1.00151.22      A16S
ATOM  26959  P   U   A1278     239.019 152.648  28.501  1.00 98.12      A16S
ATOM  26960  O1P U   A1278     237.754 153.273  28.039  1.00201.26      A16S
ATOM  26961  O2P U   A1278     239.809 153.304  29.573  1.00201.26      A16S
ATOM  26962  O5* U   A1278     238.683 151.163  28.991  1.00 98.12      A16S
ATOM  26963  C5* U   A1278     238.480 150.085  28.057  1.00 98.12      A16S
ATOM  26964  C4* U   A1278     237.286 149.231  28.446  1.00 98.12      A16S
ATOM  26965  O4* U   A1278     237.454 148.703  29.783  1.00 98.12      A16S
ATOM  26966  C1* U   A1278     236.182 148.519  30.384  1.00 98.12      A16S
ATOM  26967  N1  U   A1278     236.168 149.202  31.687  1.00201.26      A16S
ATOM  26968  C6  U   A1278     236.524 150.529  31.811  1.00201.26      A16S
ATOM  26969  C2  U   A1278     235.788 148.461  32.797  1.00201.26      A16S
ATOM  26970  O2  U   A1278     235.456 147.286  32.735  1.00201.26      A16S
ATOM  26971  N3  U   A1278     235.810 149.147  33.987  1.00201.26      A16S
ATOM  26972  C4  U   A1278     236.161 150.469  34.179  1.00201.26      A16S
ATOM  26973  O4  U   A1278     236.145 150.940  35.320  1.00201.26      A16S
ATOM  26974  C5  U   A1278     236.532 151.169  32.985  1.00201.26      A16S
ATOM  26975  C2* U   A1278     235.111 148.997  29.399  1.00 98.12      A16S
ATOM  26976  O2* U   A1278     234.548 147.871  28.752  1.00 98.12      A16S
ATOM  26977  C3* U   A1278     235.919 149.895  28.464  1.00 98.12      A16S
ATOM  26978  O3* U   A1278     235.370 149.896  27.157  1.00 98.12      A16S
ATOM  26979  P   A   A1279     234.259 150.983  26.756  1.00 96.63      A16S
ATOM  26980  O1P A   A1279     232.999 150.226  26.522  1.00 94.21      A16S
ATOM  26981  O2P A   A1279     234.274 152.093  27.749  1.00 94.21      A16S
ATOM  26982  O5* A   A1279     234.781 151.549  25.360  1.00 96.63      A16S
ATOM  26983  C5* A   A1279     235.879 152.483  25.306  1.00 96.63      A16S
ATOM  26984  C4* A   A1279     236.951 151.986  24.366  1.00 96.63      A16S
ATOM  26985  O4* A   A1279     237.583 150.811  24.910  1.00 96.63      A16S
ATOM  26986  C1* A   A1279     238.101 150.034  23.854  1.00 96.63      A16S
ATOM  26987  N9  A   A1279     237.864 148.626  24.155  1.00 94.21      A16S
ATOM  26988  C4  A   A1279     236.653 148.001  24.268  1.00 94.21      A16S
ATOM  26989  N3  A   A1279     235.441 148.544  24.074  1.00 94.21      A16S
ATOM  26990  C2  A   A1279     234.489 147.646  24.306  1.00 94.21      A16S
ATOM  26991  N1  A   A1279     234.605 146.362  24.687  1.00 94.21      A16S
ATOM  26992  C6  A   A1279     235.845 145.852  24.873  1.00 94.21      A16S
ATOM  26993  N6  A   A1279     235.967 144.579  25.264  1.00 94.21      A16S
ATOM  26994  C5  A   A1279     236.936 146.701  24.650  1.00 94.21      A16S
ATOM  26995  N7  A   A1279     238.304 146.501  24.741  1.00 94.21      A16S
ATOM  26996  C8  A   A1279     238.809 147.667  24.430  1.00 94.21      A16S
ATOM  26997  C2* A   A1279     237.568 150.586  22.531  1.00 96.63      A16S
ATOM  26998  O2* A   A1279     238.632 151.251  21.887  1.00 96.63      A16S
ATOM  26999  C3* A   A1279     236.478 151.556  22.991  1.00 96.63      A16S
ATOM  27000  O3* A   A1279     236.478 152.693  22.150  1.00 96.63      A16S
ATOM  27001  P   A   A1280     235.130 153.534  21.933  1.00 80.73      A16S
ATOM  27002  O1P A   A1280     234.659 153.999  23.267  1.00 77.57      A16S
ATOM  27003  O2P A   A1280     234.216 152.729  21.078  1.00 77.57      A16S
ATOM  27004  O5* A   A1280     235.658 154.794  21.106  1.00 80.73      A16S
ATOM  27005  C5* A   A1280     234.996 155.261  19.909  1.00 80.73      A16S
ATOM  27006  C4* A   A1280     235.657 154.677  18.672  1.00 80.73      A16S
ATOM  27007  O4* A   A1280     235.067 155.298  17.500  1.00 80.73      A16S
ATOM  27008  C1* A   A1280     236.073 155.875  16.697  1.00 80.73      A16S
ATOM  27009  N9  A   A1280     235.547 157.123  16.150  1.00 77.57      A16S
ATOM  27010  C4  A   A1280     235.320 157.397  14.824  1.00 77.57      A16S
ATOM  27011  N3  A   A1280     235.545 156.591  13.773  1.00 77.57      A16S
ATOM  27012  C2  A   A1280     235.187 157.189  12.640  1.00 77.57      A16S
ATOM  27013  N1  A   A1280     234.670 158.410  12.453  1.00 77.57      A16S
ATOM  27014  C6  A   A1280     234.459 159.193  13.530  1.00 77.57      A16S
ATOM  27015  N6  A   A1280     233.943 160.407  13.344  1.00 77.57      A16S
ATOM  27016  C5  A   A1280     234.797 158.675  14.788  1.00 77.57      A16S
ATOM  27017  N7  A   A1280     234.706 159.203  16.066  1.00 77.57      A16S
ATOM  27018  C8  A   A1280     235.165 158.247  16.833  1.00 77.57      A16S
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ATOM  27019  C2* A   A1280     237.290 156.061  17.597  1.00 80.73      A16S
ATOM  27020  O2* A   A1280     238.471 156.032  16.827  1.00 80.73      A16S
ATOM  27021  C3* A   A1280     237.165 154.867  18.537  1.00 80.73      A16S
ATOM  27022  O3* A   A1280     237.708 153.721  17.892  1.00 80.73      A16S
ATOM  27023  P    U   A1281     239.000 152.996  18.503  1.00110.66      A16S
ATOM  27024  O1P U   A1281     239.697 152.288  17.399  1.00 87.67      A16S
ATOM  27025  O2P U   A1281     238.593 152.247  19.715  1.00 87.67      A16S
ATOM  27026  O5* U   A1281     239.932 154.202  18.941  1.00110.66      A16S
ATOM  27027  C5* U   A1281     240.800 154.073  20.066  1.00110.66      A16S
ATOM  27028  C4* U   A1281     241.713 155.258  20.147  1.00110.66      A16S
ATOM  27029  O4* U   A1281     240.919 156.470  20.185  1.00110.66      A16S
ATOM  27030  C1* U   A1281     241.407 157.339  21.190  1.00110.66      A16S
ATOM  27031  N1   U   A1281     240.355 157.422  22.222  1.00 87.67      A16S
ATOM  27032  C6   U   A1281     240.323 156.547  23.297  1.00 87.67      A16S
ATOM  27033  C2   U   A1281     239.358 158.387  22.058  1.00 87.67      A16S
ATOM  27034  O2   U   A1281     239.368 159.227  21.166  1.00 87.67      A16S
ATOM  27035  N3   U   A1281     238.349 158.330  22.988  1.00 87.67      A16S
ATOM  27036  C4   U   A1281     238.241 157.451  24.052  1.00 87.67      A16S
ATOM  27037  O4   U   A1281     237.217 157.461  24.737  1.00 87.67      A16S
ATOM  27038  C5   U   A1281     239.331 156.532  24.187  1.00 87.67      A16S
ATOM  27039  C2* U   A1281     242.760 156.778  21.649  1.00110.66      A16S
ATOM  27040  O2* U   A1281     243.782 157.364  20.865  1.00110.66      A16S
ATOM  27041  C3* U   A1281     242.565 155.286  21.399  1.00110.66      A16S
ATOM  27042  O3* U   A1281     243.719 154.441  21.276  1.00110.66      A16S
ATOM  27043  P    C   A1282     244.824 154.699  20.122  1.00 75.99      A16S
ATOM  27044  O1P C   A1282     245.716 155.808  20.553  1.00195.00      A16S
ATOM  27045  O2P C   A1282     244.172 154.762  18.788  1.00195.00      A16S
ATOM  27046  O5* C   A1282     245.683 153.361  20.175  1.00 75.99      A16S
ATOM  27047  C5* C   A1282     246.620 153.165  21.229  1.00 75.99      A16S
ATOM  27048  C4* C   A1282     246.352 151.875  21.956  1.00 75.99      A16S
ATOM  27049  O4* C   A1282     245.056 151.900  22.612  1.00 75.99      A16S
ATOM  27050  C1* C   A1282     244.560 150.569  22.726  1.00 75.99      A16S
ATOM  27051  N1   C   A1282     243.268 150.455  22.013  1.00195.00      A16S
ATOM  27052  C6   C   A1282     242.968 151.270  20.956  1.00195.00      A16S
ATOM  27053  C2   C   A1282     242.358 149.459  22.414  1.00195.00      A16S
ATOM  27054  O2   C   A1282     242.625 148.755  23.401  1.00195.00      A16S
ATOM  27055  N3   C   A1282     241.212 149.290  21.714  1.00195.00      A16S
ATOM  27056  C4   C   A1282     240.952 150.068  20.661  1.00195.00      A16S
ATOM  27057  N4   C   A1282     239.829 149.840  19.978  1.00195.00      A16S
ATOM  27058  C5   C   A1282     241.836 151.108  20.257  1.00195.00      A16S
ATOM  27059  C2* C   A1282     245.591 149.648  22.073  1.00 75.99      A16S
ATOM  27060  O2* C   A1282     246.445 149.110  23.066  1.00 75.99      A16S
ATOM  27061  C3* C   A1282     246.292 150.614  21.124  1.00 75.99      A16S
ATOM  27062  O3* C   A1282     247.563 150.172  20.695  1.00 75.99      A16S
ATOM  27063  P    G   A1283     247.721 149.564  19.215  1.00102.78      A16S
ATOM  27064  O1P G   A1283     249.172 149.525  18.882  1.00 73.57      A16S
ATOM  27065  O2P G   A1283     246.789 150.305  18.329  1.00 73.57      A16S
ATOM  27066  O5* G   A1283     247.208 148.067  19.392  1.00102.78      A16S
ATOM  27067  C5* G   A1283     247.860 147.193  20.331  1.00102.78      A16S
ATOM  27068  C4* G   A1283     247.154 145.863  20.408  1.00102.78      A16S
ATOM  27069  O4* G   A1283     245.882 146.001  21.097  1.00102.78      A16S
ATOM  27070  C1* G   A1283     244.942 145.082  20.558  1.00102.78      A16S
ATOM  27071  N9   G   A1283     243.884 145.836  19.883  1.00 73.57      A16S
ATOM  27072  C4   G   A1283     242.626 145.375  19.558  1.00 73.57      A16S
ATOM  27073  N3   G   A1283     242.135 144.149  19.831  1.00 73.57      A16S
ATOM  27074  C2   G   A1283     240.900 144.003  19.386  1.00 73.57      A16S
ATOM  27075  N2   G   A1283     240.263 142.847  19.581  1.00 73.57      A16S
ATOM  27076  N1   G   A1283     240.201 144.977  18.721  1.00 73.57      A16S
ATOM  27077  C6   G   A1283     240.684 146.245  18.426  1.00 73.57      A16S
ATOM  27078  O6   G   A1283     239.971 147.052  17.820  1.00 73.57      A16S
ATOM  27079  C5   G   A1283     242.010 146.421  18.901  1.00 73.57      A16S
ATOM  27080  N7   G   A1283     242.855 147.520  18.820  1.00 73.57      A16S
ATOM  27081  C8   G   A1283     243.951 147.131  19.418  1.00 73.57      A16S
ATOM  27082  C2* G   A1283     245.696 144.235  19.537  1.00102.78      A16S
ATOM  27083  O2* G   A1283     246.252 143.103  20.177  1.00102.78      A16S
ATOM  27084  C3* G   A1283     246.774 145.209  19.093  1.00102.78      A16S
ATOM  27085  O3* G   A1283     247.844 144.576  18.419  1.00102.78      A16S
ATOM  27086  P    C   A1284     247.750 144.368  16.826  1.00 80.61      A16S
ATOM  27087  O1P C   A1284     249.097 143.955  16.384  1.00 54.19      A16S
ATOM  27088  O2P C   A1284     247.116 145.571  16.215  1.00 54.19      A16S
ATOM  27089  O5* C   A1284     246.784 143.108  16.694  1.00 80.61      A16S
ATOM  27090  C5* C   A1284     247.006 141.942  17.521  1.00 80.61      A16S
ATOM  27091  C4* C   A1284     245.828 140.993  17.456  1.00 80.61      A16S
ATOM  27092  O4* C   A1284     244.637 141.628  17.982  1.00 80.61      A16S
ATOM  27093  C1* C   A1284     243.506 141.206  17.245  1.00 80.61      A16S
ATOM  27094  N1   C   A1284     242.961 142.374  16.551  1.00 54.19      A16S
ATOM  27095  C6   C   A1284     243.749 143.461  16.309  1.00 54.19      A16S
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ATOM  27096  C2  C   A1284      241.628 142.366  16.142  1.00 54.19       A16S
ATOM  27097  O2  C   A1284      240.938 141.348  16.342  1.00 54.19       A16S
ATOM  27098  N3  C   A1284      241.124 143.461  15.529  1.00 54.19       A16S
ATOM  27099  C4  C   A1284      241.905 144.522  15.309  1.00 54.19       A16S
ATOM  27100  N4  C   A1284      241.375 145.585  14.702  1.00 54.19       A16S
ATOM  27101  C5  C   A1284      243.267 144.543  15.697  1.00 54.19       A16S
ATOM  27102  C2* C   A1284      243.970 140.142  16.258  1.00 80.61       A16S
ATOM  27103  O2* C   A1284      243.801 138.878  16.867  1.00 80.61       A16S
ATOM  27104  C3* C   A1284      245.431 140.523  16.072  1.00 80.61       A16S
ATOM  27105  O3* C   A1284      246.223 139.425  15.668  1.00 80.61       A16S
ATOM  27106  P   A   A1285      246.785 139.377  14.170  1.00 74.34       A16S
ATOM  27107  O1P A   A1285      245.613 139.449  13.267  1.00 58.22       A16S
ATOM  27108  O2P A   A1285      247.746 138.236  14.061  1.00 58.22       A16S
ATOM  27109  O5* A   A1285      247.568 140.750  14.008  1.00 74.34       A16S
ATOM  27110  C5* A   A1285      248.466 140.941  12.922  1.00 74.34       A16S
ATOM  27111  C4* A   A1285      248.165 142.239  12.232  1.00 74.34       A16S
ATOM  27112  O4* A   A1285      246.795 142.193  11.746  1.00 74.34       A16S
ATOM  27113  C1* A   A1285      246.088 143.343  12.159  1.00 74.34       A16S
ATOM  27114  N9  A   A1285      244.709 142.940  12.467  1.00 58.22       A16S
ATOM  27115  C4  A   A1285      243.555 143.544  12.012  1.00 58.22       A16S
ATOM  27116  N3  A   A1285      243.452 144.616  11.209  1.00 58.22       A16S
ATOM  27117  C2  A   A1285      242.174 144.917  10.987  1.00 58.22       A16S
ATOM  27118  N1  A   A1285      241.074 144.316  11.437  1.00 58.22       A16S
ATOM  27119  C6  A   A1285      241.209 143.243  12.238  1.00 58.22       A16S
ATOM  27120  N6  A   A1285      240.110 142.644  12.685  1.00 58.22       A16S
ATOM  27121  C5  A   A1285      242.509 142.819  12.554  1.00 58.22       A16S
ATOM  27122  N7  A   A1285      242.985 141.777  13.336  1.00 58.22       A16S
ATOM  27123  C8  A   A1285      244.291 141.893  13.255  1.00 58.22       A16S
ATOM  27124  C2* A   A1285      246.846 143.922  13.354  1.00 74.34       A16S
ATOM  27125  O2* A   A1285      246.658 145.320  13.490  1.00 74.34       A16S
ATOM  27126  C3* A   A1285      248.293 143.505  13.070  1.00 74.34       A16S
ATOM  27127  O3* A   A1285      249.231 144.461  12.514  1.00 74.34       A16S
ATOM  27128  P   A   A1286      248.912 145.250  11.143  1.00142.45       A16S
ATOM  27129  O1P A   A1286      250.013 146.229  10.995  1.00 83.71       A16S
ATOM  27130  O2P A   A1286      247.496 145.724  11.077  1.00 83.71       A16S
ATOM  27131  O5* A   A1286      249.151 144.149  10.017  1.00142.45       A16S
ATOM  27132  C5* A   A1286      250.474 143.620   9.778  1.00142.45       A16S
ATOM  27133  C4* A   A1286      250.452 142.636   8.630  1.00142.45       A16S
ATOM  27134  O4* A   A1286      249.791 141.408   9.038  1.00142.45       A16S
ATOM  27135  C1* A   A1286      249.022 140.893   7.960  1.00142.45       A16S
ATOM  27136  N9  A   A1286      247.609 140.932   8.358  1.00 83.71       A16S
ATOM  27137  C4  A   A1286      246.905 139.942   9.001  1.00 83.71       A16S
ATOM  27138  N3  A   A1286      247.354 138.735   9.385  1.00 83.71       A16S
ATOM  27139  C2  A   A1286      246.392 138.053   9.996  1.00 83.71       A16S
ATOM  27140  N1  A   A1286      245.127 138.416  10.248  1.00 83.71       A16S
ATOM  27141  C6  A   A1286      244.713 139.639   9.848  1.00 83.71       A16S
ATOM  27142  N6  A   A1286      243.459 140.014  10.099  1.00 83.71       A16S
ATOM  27143  C5  A   A1286      245.630 140.452   9.190  1.00 83.71       A16S
ATOM  27144  N7  A   A1286      245.523 141.731   8.666  1.00 83.71       A16S
ATOM  27145  C8  A   A1286      246.715 141.970   8.183  1.00 83.71       A16S
ATOM  27146  C2* A   A1286      249.311 141.770   6.739  1.00142.45       A16S
ATOM  27147  O2* A   A1286      250.359 141.201   5.978  1.00142.45       A16S
ATOM  27148  C3* A   A1286      249.687 143.090   7.401  1.00142.45       A16S
ATOM  27149  O3* A   A1286      250.435 143.952   6.563  1.00142.45       A16S
ATOM  27150  P   A   A1287      249.669 145.094   5.729  1.00114.76       A16S
ATOM  27151  O1P A   A1287      250.663 145.687   4.785  1.00 68.76       A16S
ATOM  27152  O2P A   A1287      248.918 145.983   6.671  1.00 68.76       A16S
ATOM  27153  O5* A   A1287      248.609 144.272   4.868  1.00114.76       A16S
ATOM  27154  C5* A   A1287      247.194 144.458   5.050  1.00114.76       A16S
ATOM  27155  C4* A   A1287      246.489 143.122   5.066  1.00114.76       A16S
ATOM  27156  O4* A   A1287      245.065 143.357   5.090  1.00114.76       A16S
ATOM  27157  C1* A   A1287      244.410 142.449   4.230  1.00114.76       A16S
ATOM  27158  N9  A   A1287      243.691 143.235   3.223  1.00 68.76       A16S
ATOM  27159  C4  A   A1287      242.740 142.792   2.332  1.00 68.76       A16S
ATOM  27160  N3  A   A1287      242.320 141.531   2.144  1.00 68.76       A16S
ATOM  27161  C2  A   A1287      241.374 141.489   1.215  1.00 68.76       A16S
ATOM  27162  N1  A   A1287      240.832 142.487   0.508  1.00 68.76       A16S
ATOM  27163  C6  A   A1287      241.272 143.741   0.720  1.00 68.76       A16S
ATOM  27164  N6  A   A1287      240.724 144.734   0.017  1.00 68.76       A16S
ATOM  27165  C5  A   A1287      242.285 143.921   1.675  1.00 68.76       A16S
ATOM  27166  N7  A   A1287      242.963 145.049   2.112  1.00 68.76       A16S
ATOM  27167  C8  A   A1287      243.790 144.589   3.015  1.00 68.76       A16S
ATOM  27168  C2* A   A1287      245.452 141.458   3.710  1.00114.76       A16S
ATOM  27169  O2* A   A1287      245.460 140.326   4.556  1.00114.76       A16S
ATOM  27170  C3* A   A1287      246.735 142.264   3.838  1.00114.76       A16S
ATOM  27171  O3* A   A1287      247.843 141.418   4.092  1.00114.76       A16S
ATOM  27172  P   A   A1288      248.822 141.005   2.896  1.00 72.47       A16S
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ATOM  27173  O1P A   A1288     249.856 140.101   3.482  1.00 55.30      A16S
ATOM  27174  O2P A   A1288     249.232 142.230   2.159  1.00 55.30      A16S
ATOM  27175  O5* A   A1288     247.886 140.177   1.915  1.00 72.47      A16S
ATOM  27176  C5* A   A1288     247.874 138.741   1.925  1.00 72.47      A16S
ATOM  27177  C4* A   A1288     247.024 138.237   0.792  1.00 72.47      A16S
ATOM  27178  O4* A   A1288     245.703 138.820   0.941  1.00 72.47      A16S
ATOM  27179  C1* A   A1288     245.155 139.091  -0.334  1.00 72.47      A16S
ATOM  27180  N9  A   A1288     244.872 140.522  -0.430  1.00 55.30      A16S
ATOM  27181  C4  A   A1288     243.896 141.104  -1.198  1.00 55.30      A16S
ATOM  27182  N3  A   A1288     243.014 140.487  -1.993  1.00 55.30      A16S
ATOM  27183  C2  A   A1288     242.229 141.374  -2.600  1.00 55.30      A16S
ATOM  27184  N1  A   A1288     242.225 142.706  -2.506  1.00 55.30      A16S
ATOM  27185  C6  A   A1288     243.120 143.291  -1.695  1.00 55.30      A16S
ATOM  27186  N6  A   A1288     243.104 144.617  -1.598  1.00 55.30      A16S
ATOM  27187  C5  A   A1288     244.014 142.460  -0.999  1.00 55.30      A16S
ATOM  27188  N7  A   A1288     245.043 142.732  -0.118  1.00 55.30      A16S
ATOM  27189  C8  A   A1288     245.514 141.551   0.193  1.00 55.30      A16S
ATOM  27190  C2* A   A1288     246.162 138.624  -1.386  1.00 72.47      A16S
ATOM  27191  O2* A   A1288     245.826 137.319  -1.814  1.00 72.47      A16S
ATOM  27192  C3* A   A1288     247.469 138.654  -0.607  1.00 72.47      A16S
ATOM  27193  O3* A   A1288     248.445 137.771  -1.174  1.00 72.47      A16S
ATOM  27194  P   A   A1289     249.437 138.305  -2.334  1.00 72.17      A16S
ATOM  27195  O1P A   A1289     250.368 137.189  -2.647  1.00 72.28      A16S
ATOM  27196  O2P A   A1289     249.987 139.638  -1.945  1.00 72.28      A16S
ATOM  27197  O5* A   A1289     248.495 138.531  -3.601  1.00 72.17      A16S
ATOM  27198  C5* A   A1289     247.872 137.416  -4.262  1.00 72.17      A16S
ATOM  27199  C4* A   A1289     246.736 137.877  -5.156  1.00 72.17      A16S
ATOM  27200  O4* A   A1289     245.705 138.530  -4.370  1.00 72.17      A16S
ATOM  27201  C1* A   A1289     245.040 139.494  -5.164  1.00 72.17      A16S
ATOM  27202  N9  A   A1289     245.176 140.812  -4.547  1.00 72.28      A16S
ATOM  27203  C4  A   A1289     244.453 141.920  -4.917  1.00 72.28      A16S
ATOM  27204  N3  A   A1289     243.484 141.988  -5.845  1.00 72.28      A16S
ATOM  27205  C2  A   A1289     243.025 143.231  -5.961  1.00 72.28      A16S
ATOM  27206  N1  A   A1289     243.396 144.329  -5.309  1.00 72.28      A16S
ATOM  27207  C6  A   A1289     244.370 144.229  -4.381  1.00 72.28      A16S
ATOM  27208  N6  A   A1289     244.742 145.331  -3.735  1.00 72.28      A16S
ATOM  27209  C5  A   A1289     244.937 142.960  -4.154  1.00 72.28      A16S
ATOM  27210  N7  A   A1289     245.926 142.514  -3.286  1.00 72.28      A16S
ATOM  27211  C8  A   A1289     246.026 141.235  -3.555  1.00 72.28      A16S
ATOM  27212  C2* A   A1289     245.688 139.478  -6.547  1.00 72.17      A16S
ATOM  27213  O2* A   A1289     244.929 138.652  -7.406  1.00 72.17      A16S
ATOM  27214  C3* A   A1289     247.057 138.886  -6.245  1.00 72.17      A16S
ATOM  27215  O3* A   A1289     247.604 138.282  -7.407  1.00 72.17      A16S
ATOM  27216  P   G   A1290     248.899 138.931  -8.105  1.00 63.68      A16S
ATOM  27217  O1P G   A1290     248.906 138.506  -9.530  1.00 83.73      A16S
ATOM  27218  O2P G   A1290     250.063 138.607  -7.233  1.00 83.73      A16S
ATOM  27219  O5* G   A1290     248.653 140.506  -8.056  1.00 63.68      A16S
ATOM  27220  C5* G   A1290     247.629 141.128  -8.851  1.00 63.68      A16S
ATOM  27221  C4* G   A1290     247.558 142.608  -8.545  1.00 63.68      A16S
ATOM  27222  O4* G   A1290     247.349 142.772  -7.121  1.00 63.68      A16S
ATOM  27223  C1* G   A1290     248.077 143.887  -6.647  1.00 63.68      A16S
ATOM  27224  N9  G   A1290     249.030 143.408  -5.645  1.00 83.73      A16S
ATOM  27225  C4  G   A1290     249.971 144.155  -4.976  1.00 83.73      A16S
ATOM  27226  N3  G   A1290     250.195 145.474  -5.137  1.00 83.73      A16S
ATOM  27227  C2  G   A1290     251.163 145.908  -4.351  1.00 83.73      A16S
ATOM  27228  N2  G   A1290     251.514 147.201  -4.387  1.00 83.73      A16S
ATOM  27229  N1  G   A1290     251.857 145.107  -3.472  1.00 83.73      A16S
ATOM  27230  C6  G   A1290     251.639 143.745  -3.287  1.00 83.73      A16S
ATOM  27231  O6  G   A1290     252.314 143.114  -2.462  1.00 83.73      A16S
ATOM  27232  C5  G   A1290     250.606 143.268  -4.128  1.00 83.73      A16S
ATOM  27233  N7  G   A1290     250.080 141.993  -4.262  1.00 83.73      A16S
ATOM  27234  C8  G   A1290     249.154 142.121  -5.172  1.00 83.73      A16S
ATOM  27235  C2* G   A1290     248.705 144.575  -7.858  1.00 63.68      A16S
ATOM  27236  O2* G   A1290     247.822 145.596  -8.287  1.00 63.68      A16S
ATOM  27237  C3* G   A1290     248.808 143.423  -8.854  1.00 63.68      A16S
ATOM  27238  O3* G   A1290     248.789 143.878 -10.214  1.00 63.68      A16S
ATOM  27239  P   G   A1291     250.126 143.796 -11.121  1.00 92.93      A16S
ATOM  27240  O1P G   A1291     249.703 144.183 -12.498  1.00 67.08      A16S
ATOM  27241  O2P G   A1291     250.846 142.508 -10.906  1.00 67.08      A16S
ATOM  27242  O5* G   A1291     251.056 144.950 -10.540  1.00 92.93      A16S
ATOM  27243  C5* G   A1291     250.787 146.334 -10.820  1.00 92.93      A16S
ATOM  27244  C4* G   A1291     251.812 147.204 -10.142  1.00 92.93      A16S
ATOM  27245  O4* G   A1291     251.676 147.061  -8.707  1.00 92.93      A16S
ATOM  27246  C1* G   A1291     252.951 147.117  -8.099  1.00 92.93      A16S
ATOM  27247  N9  G   A1291     253.156 145.894  -7.329  1.00 67.08      A16S
ATOM  27248  C4  G   A1291     254.157 145.658  -6.414  1.00 67.08      A16S
ATOM  27249  N3  G   A1291     255.141 146.517  -6.074  1.00 67.08      A16S
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ATOM  27250  C2  G  A1291     255.946 146.007  -5.157  1.00 67.08       A16S
ATOM  27251  N2  G  A1291     256.977 146.730  -4.701  1.00 67.08       A16S
ATOM  27252  N1  G  A1291     255.797 144.750  -4.619  1.00 67.08       A16S
ATOM  27253  C6  G  A1291     254.793 143.850  -4.956  1.00 67.08       A16S
ATOM  27254  O6  G  A1291     254.750 142.744  -4.416  1.00 67.08       A16S
ATOM  27255  C5  G  A1291     253.923 144.385  -5.934  1.00 67.08       A16S
ATOM  27256  N7  G  A1291     252.806 143.830  -6.538  1.00 67.08       A16S
ATOM  27257  C8  G  A1291     252.387 144.756  -7.358  1.00 67.08       A16S
ATOM  27258  C2* G  A1291     253.990 147.346  -9.197  1.00 92.93       A16S
ATOM  27259  O2* G  A1291     254.271 148.728  -9.264  1.00 92.93       A16S
ATOM  27260  C3* G  A1291     253.258 146.841 -10.434  1.00 92.93       A16S
ATOM  27261  O3* G  A1291     253.714 147.478 -11.624  1.00 92.93       A16S
ATOM  27262  P   U  A1292     254.960 146.860 -12.436  1.00 80.66       A16S
ATOM  27263  O1P U  A1292     255.251 147.825 -13.532  1.00 87.82       A16S
ATOM  27264  O2P U  A1292     254.678 145.441 -12.767  1.00 87.82       A16S
ATOM  27265  O5* U  A1292     256.165 146.880 -11.390  1.00 80.66       A16S
ATOM  27266  C5* U  A1292     256.859 148.104 -11.098  1.00 80.66       A16S
ATOM  27267  C4* U  A1292     258.075 147.844 -10.241  1.00 80.66       A16S
ATOM  27268  O4* U  A1292     257.697 147.515  -8.878  1.00 80.66       A16S
ATOM  27269  C1* U  A1292     258.668 146.648  -8.312  1.00 80.66       A16S
ATOM  27270  N1  U  A1292     258.024 145.393  -7.897  1.00 87.82       A16S
ATOM  27271  C6  U  A1292     256.882 144.935  -8.507  1.00 87.82       A16S
ATOM  27272  C2  U  A1292     258.621 144.669  -6.875  1.00 87.82       A16S
ATOM  27273  O2  U  A1292     259.623 145.036  -6.293  1.00 87.82       A16S
ATOM  27274  N3  U  A1292     258.001 143.493  -6.560  1.00 87.82       A16S
ATOM  27275  C4  U  A1292     256.871 142.974  -7.137  1.00 87.82       A16S
ATOM  27276  O4  U  A1292     256.424 141.905  -6.726  1.00 87.82       A16S
ATOM  27277  C5  U  A1292     256.302 143.780  -8.173  1.00 87.82       A16S
ATOM  27278  C2* U  A1292     259.730 146.390  -9.377  1.00 80.66       A16S
ATOM  27279  O2* U  A1292     260.806 147.274  -9.163  1.00 80.66       A16S
ATOM  27280  C3* U  A1292     258.968 146.696 -10.659  1.00 80.66       A16S
ATOM  27281  O3* U  A1292     259.834 147.035 -11.724  1.00 80.66       A16S
ATOM  27282  P   G  A1293     260.452 145.863 -12.632  1.00 85.08       A16S
ATOM  27283  O1P G  A1293     261.234 146.508 -13.718  1.00 75.77       A16S
ATOM  27284  O2P G  A1293     259.354 144.922 -12.982  1.00 75.77       A16S
ATOM  27285  O5* G  A1293     261.455 145.119 -11.645  1.00 85.08       A16S
ATOM  27286  C5* G  A1293     262.560 145.829 -11.083  1.00 85.08       A16S
ATOM  27287  C4* G  A1293     263.318 144.962 -10.117  1.00 85.08       A16S
ATOM  27288  O4* G  A1293     262.530 144.712  -8.925  1.00 85.08       A16S
ATOM  27289  C1* G  A1293     262.875 143.445  -8.389  1.00 85.08       A16S
ATOM  27290  N9  G  A1293     261.689 142.595  -8.348  1.00 75.77       A16S
ATOM  27291  C4  G  A1293     261.529 141.483  -7.559  1.00 75.77       A16S
ATOM  27292  N3  G  A1293     262.424 141.011  -6.667  1.00 75.77       A16S
ATOM  27293  C2  G  A1293     261.995 139.915  -6.071  1.00 75.77       A16S
ATOM  27294  N2  G  A1293     262.758 139.311  -5.154  1.00 75.77       A16S
ATOM  27295  N1  G  A1293     260.789 139.328  -6.331  1.00 75.77       A16S
ATOM  27296  C6  G  A1293     259.856 139.792  -7.251  1.00 75.77       A16S
ATOM  27297  O6  G  A1293     258.801 139.171  -7.424  1.00 75.77       A16S
ATOM  27298  C5  G  A1293     260.298 140.972  -7.893  1.00 75.77       A16S
ATOM  27299  N7  G  A1293     259.683 141.755  -8.860  1.00 75.77       A16S
ATOM  27300  C8  G  A1293     260.540 142.709  -9.095  1.00 75.77       A16S
ATOM  27301  C2* G  A1293     263.931 142.828  -9.304  1.00 85.08       A16S
ATOM  27302  O2* G  A1293     265.214 143.046  -8.760  1.00 85.08       A16S
ATOM  27303  C3* G  A1293     263.690 143.580 -10.606  1.00 85.08       A16S
ATOM  27304  O3* G  A1293     264.821 143.577 -11.454  1.00 85.08       A16S
ATOM  27305  P   G  A1294     264.991 142.391 -12.522  1.00 86.42       A16S
ATOM  27306  O1P G  A1294     266.224 142.699 -13.298  1.00 73.30       A16S
ATOM  27307  O2P G  A1294     263.700 142.208 -13.245  1.00 73.30       A16S
ATOM  27308  O5* G  A1294     265.252 141.112 -11.605  1.00 86.42       A16S
ATOM  27309  C5* G  A1294     266.339 141.116 -10.665  1.00 86.42       A16S
ATOM  27310  C4* G  A1294     266.292 139.906  -9.759  1.00 86.42       A16S
ATOM  27311  O4* G  A1294     265.171 139.978  -8.838  1.00 86.42       A16S
ATOM  27312  C1* G  A1294     264.791 138.659  -8.455  1.00 86.42       A16S
ATOM  27313  N9  G  A1294     263.398 138.409  -8.822  1.00 73.30       A16S
ATOM  27314  C4  G  A1294     262.642 137.361  -8.367  1.00 73.30       A16S
ATOM  27315  N3  G  A1294     263.046 136.426  -7.482  1.00 73.30       A16S
ATOM  27316  C2  G  A1294     262.110 135.528  -7.255  1.00 73.30       A16S
ATOM  27317  N2  G  A1294     262.347 134.524  -6.400  1.00 73.30       A16S
ATOM  27318  N1  G  A1294     260.873 135.547  -7.848  1.00 73.30       A16S
ATOM  27319  C6  G  A1294     260.435 136.504  -8.759  1.00 73.30       A16S
ATOM  27320  O6  G  A1294     259.298 136.431  -9.233  1.00 73.30       A16S
ATOM  27321  C5  G  A1294     261.432 137.472  -9.014  1.00 73.30       A16S
ATOM  27322  N7  G  A1294     261.417 138.583  -9.848  1.00 73.30       A16S
ATOM  27323  C8  G  A1294     262.601 139.113  -9.696  1.00 73.30       A16S
ATOM  27324  C2* G  A1294     265.678 137.683  -9.223  1.00 86.42       A16S
ATOM  27325  O2* G  A1294     266.737 137.213  -8.410  1.00 86.42       A16S
ATOM  27326  C3* G  A1294     266.128 138.542 -10.397  1.00 86.42       A16S
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ATOM  27327  O3* G   A1294     267.292 138.019 -10.986  1.00 86.42       A16S
ATOM  27328  P   G   A1295     267.140 136.933 -12.155  1.00 75.39       A16S
ATOM  27329  O1P G   A1295     268.503 136.675 -12.697  1.00 67.65       A16S
ATOM  27330  O2P G   A1295     266.051 137.409 -13.064  1.00 67.65       A16S
ATOM  27331  O5* G   A1295     266.659 135.615 -11.401  1.00 75.39       A16S
ATOM  27332  C5* G   A1295     267.508 135.003 -10.428  1.00 75.39       A16S
ATOM  27333  C4* G   A1295     266.866 133.767  -9.867  1.00 75.39       A16S
ATOM  27334  O4* G   A1295     265.684 134.130  -9.111  1.00 75.39       A16S
ATOM  27335  C1* G   A1295     264.724 133.088  -9.195  1.00 75.39       A16S
ATOM  27336  N9  G   A1295     263.510 133.598  -9.835  1.00 67.65       A16S
ATOM  27337  C4  G   A1295     262.293 132.958  -9.890  1.00 67.65       A16S
ATOM  27338  N3  G   A1295     262.007 131.758  -9.352  1.00 67.65       A16S
ATOM  27339  C2  G   A1295     260.765 131.395  -9.592  1.00 67.65       A16S
ATOM  27340  N2  G   A1295     260.324 130.222  -9.130  1.00 67.65       A16S
ATOM  27341  N1  G   A1295     259.866 132.153 -10.300  1.00 67.65       A16S
ATOM  27342  C6  G   A1295     260.136 133.393 -10.859  1.00 67.65       A16S
ATOM  27343  O6  G   A1295     259.253 133.992 -11.476  1.00 67.65       A16S
ATOM  27344  C5  G   A1295     261.471 133.792 -10.614  1.00 67.65       A16S
ATOM  27345  N7  G   A1295     262.150 134.937 -11.000  1.00 67.65       A16S
ATOM  27346  C8  G   A1295     263.351 134.781 -10.514  1.00 67.65       A16S
ATOM  27347  C2* G   A1295     265.355 131.969 -10.018  1.00 75.39       A16S
ATOM  27348  O2* G   A1295     265.988 131.065  -9.133  1.00 75.39       A16S
ATOM  27349  C3* G   A1295     266.360 132.738 -10.861  1.00 75.39       A16S
ATOM  27350  O3* G   A1295     267.382 131.893 -11.365  1.00 75.39       A16S
ATOM  27351  P   C   A1296     267.175 131.161 -12.787  1.00 86.51       A16S
ATOM  27352  O1P C   A1296     268.346 130.277 -12.969  1.00 43.87       A16S
ATOM  27353  O2P C   A1296     266.820 132.149 -13.852  1.00 43.87       A16S
ATOM  27354  O5* C   A1296     265.916 130.215 -12.554  1.00 86.51       A16S
ATOM  27355  C5* C   A1296     265.977 129.138 -11.599  1.00 86.51       A16S
ATOM  27356  C4* C   A1296     264.739 128.281 -11.693  1.00 86.51       A16S
ATOM  27357  O4* C   A1296     263.588 129.025 -11.244  1.00 86.51       A16S
ATOM  27358  C1* C   A1296     262.460 128.650 -12.003  1.00 86.51       A16S
ATOM  27359  N1  C   A1296     261.903 129.858 -12.627  1.00 43.87       A16S
ATOM  27360  C6  C   A1296     262.717 130.877 -13.029  1.00 43.87       A16S
ATOM  27361  C2  C   A1296     260.520 129.951 -12.805  1.00 43.87       A16S
ATOM  27362  O2  C   A1296     259.800 129.003 -12.436  1.00 43.87       A16S
ATOM  27363  N3  C   A1296     260.002 131.063 -13.376  1.00 43.87       A16S
ATOM  27364  C4  C   A1296     260.810 132.048 -13.765  1.00 43.87       A16S
ATOM  27365  N4  C   A1296     260.265 133.124 -14.325  1.00 43.87       A16S
ATOM  27366  C5  C   A1296     262.216 131.977 -13.597  1.00 43.87       A16S
ATOM  27367  C2* C   A1296     262.888 127.567 -13.001  1.00 86.51       A16S
ATOM  27368  O2* C   A1296     262.563 126.293 -12.482  1.00 86.51       A16S
ATOM  27369  C3* C   A1296     264.392 127.783 -13.083  1.00 86.51       A16S
ATOM  27370  O3* C   A1296     265.070 126.556 -13.309  1.00 86.51       A16S
ATOM  27371  P   C   A1297     266.025 126.393 -14.584  1.00 50.78       A16S
ATOM  27372  O1P C   A1297     266.611 125.036 -14.473  1.00 66.50       A16S
ATOM  27373  O2P C   A1297     266.918 127.575 -14.684  1.00 66.50       A16S
ATOM  27374  O5* C   A1297     265.007 126.399 -15.808  1.00 50.78       A16S
ATOM  27375  C5* C   A1297     263.988 125.391 -15.898  1.00 50.78       A16S
ATOM  27376  C4* C   A1297     262.993 125.732 -16.975  1.00 50.78       A16S
ATOM  27377  O4* C   A1297     262.449 127.052 -16.710  1.00 50.78       A16S
ATOM  27378  C1* C   A1297     262.472 127.809 -17.892  1.00 50.78       A16S
ATOM  27379  N1  C   A1297     262.636 129.227 -17.548  1.00 66.50       A16S
ATOM  27380  C6  C   A1297     263.637 129.634 -16.718  1.00 66.50       A16S
ATOM  27381  C2  C   A1297     261.741 130.165 -18.094  1.00 66.50       A16S
ATOM  27382  O2  C   A1297     260.831 129.777 -18.839  1.00 66.50       A16S
ATOM  27383  N3  C   A1297     261.889 131.469 -17.796  1.00 66.50       A16S
ATOM  27384  C4  C   A1297     262.874 131.857 -16.988  1.00 66.50       A16S
ATOM  27385  N4  C   A1297     262.983 133.161 -16.721  1.00 66.50       A16S
ATOM  27386  C5  C   A1297     263.794 130.927 -16.415  1.00 66.50       A16S
ATOM  27387  C2* C   A1297     263.595 127.226 -18.742  1.00 50.78       A16S
ATOM  27388  O2* C   A1297     263.331 127.498 -20.100  1.00 50.78       A16S
ATOM  27389  C3* C   A1297     263.490 125.740 -18.417  1.00 50.78       A16S
ATOM  27390  O3* C   A1297     262.500 125.150 -19.256  1.00 50.78       A16S
ATOM  27391  P   C   A1298     262.870 123.867 -20.160  1.00 60.04       A16S
ATOM  27392  O1P C   A1298     263.785 122.997 -19.353  1.00 64.15       A16S
ATOM  27393  O2P C   A1298     263.283 124.316 -21.518  1.00 64.15       A16S
ATOM  27394  O5* C   A1298     261.480 123.107 -20.321  1.00 60.04       A16S
ATOM  27395  C5* C   A1298     261.114 122.061 -19.411  1.00 60.04       A16S
ATOM  27396  C4* C   A1298     259.617 121.950 -19.308  1.00 60.04       A16S
ATOM  27397  O4* C   A1298     259.070 123.134 -18.665  1.00 60.04       A16S
ATOM  27398  C1* C   A1298     257.983 123.611 -19.424  1.00 60.04       A16S
ATOM  27399  N1  C   A1298     257.864 125.071 -19.275  1.00 64.15       A16S
ATOM  27400  C6  C   A1298     258.960 125.854 -19.048  1.00 64.15       A16S
ATOM  27401  C2  C   A1298     256.590 125.654 -19.394  1.00 64.15       A16S
ATOM  27402  O2  C   A1298     255.600 124.923 -19.555  1.00 64.15       A16S
ATOM  27403  N3  C   A1298     256.470 126.997 -19.327  1.00 64.15       A16S
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ATOM  27404  C4  C  A1298     257.550 127.752 -19.141  1.00 64.15      A16S
ATOM  27405  N4  C  A1298     257.387 129.071 -19.126  1.00 64.15      A16S
ATOM  27406  C5  C  A1298     258.849 127.186 -18.975  1.00 64.15      A16S
ATOM  27407  C2* C  A1298     258.242 123.145 -20.852  1.00 60.04      A16S
ATOM  27408  O2* C  A1298     257.022 123.121 -21.564  1.00 60.04      A16S
ATOM  27409  C3* C  A1298     258.853 121.766 -20.612  1.00 60.04      A16S
ATOM  27410  O3* C  A1298     257.810 120.833 -20.372  1.00 60.04      A16S
ATOM  27411  P   A  A1299     257.721 119.481 -21.235  1.00 55.64      A16S
ATOM  27412  O1P A  A1299     256.280 119.287 -21.558  1.00 84.38      A16S
ATOM  27413  O2P A  A1299     258.724 119.501 -22.335  1.00 84.38      A16S
ATOM  27414  O5* A  A1299     258.125 118.348 -20.198  1.00 55.64      A16S
ATOM  27415  C5* A  A1299     259.485 117.984 -20.021  1.00 55.64      A16S
ATOM  27416  C4* A  A1299     259.840 118.028 -18.567  1.00 55.64      A16S
ATOM  27417  O4* A  A1299     259.835 119.386 -18.107  1.00 55.64      A16S
ATOM  27418  C1* A  A1299     259.741 119.372 -16.705  1.00 55.64      A16S
ATOM  27419  N9  A  A1299     259.212 120.662 -16.252  1.00 84.38      A16S
ATOM  27420  C4  A  A1299     257.999 121.250 -16.510  1.00 84.38      A16S
ATOM  27421  N3  A  A1299     256.954 120.716 -17.162  1.00 84.38      A16S
ATOM  27422  C2  A  A1299     255.971 121.612 -17.278  1.00 84.38      A16S
ATOM  27423  N1  A  A1299     255.927 122.888 -16.856  1.00 84.38      A16S
ATOM  27424  C6  A  A1299     257.001 123.389 -16.210  1.00 84.38      A16S
ATOM  27425  N6  A  A1299     256.977 124.660 -15.816  1.00 84.38      A16S
ATOM  27426  C5  A  A1299     258.092 122.538 -16.005  1.00 84.38      A16S
ATOM  27427  N7  A  A1299     259.309 122.734 -15.377  1.00 84.38      A16S
ATOM  27428  C8  A  A1299     259.926 121.591 -15.533  1.00 84.38      A16S
ATOM  27429  C2* A  A1299     259.169 118.016 -16.265  1.00 55.64      A16S
ATOM  27430  O2* A  A1299     260.177 117.369 -15.515  1.00 55.64      A16S
ATOM  27431  C3* A  A1299     258.895 117.318 -17.613  1.00 55.64      A16S
ATOM  27432  O3* A  A1299     259.257 115.933 -17.644  1.00 55.64      A16S
ATOM  27433  P   G  A1300     258.266 114.808 -17.070  1.00 71.25      A16S
ATOM  27434  O1P G  A1300     258.397 113.617 -17.933  1.00 46.20      A16S
ATOM  27435  O2P G  A1300     256.932 115.392 -16.844  1.00 46.20      A16S
ATOM  27436  O5* G  A1300     258.941 114.460 -15.669  1.00 71.25      A16S
ATOM  27437  C5* G  A1300     258.196 113.886 -14.570  1.00 71.25      A16S
ATOM  27438  C4* G  A1300     257.727 114.978 -13.640  1.00 71.25      A16S
ATOM  27439  O4* G  A1300     256.406 115.364 -14.064  1.00 71.25      A16S
ATOM  27440  C1* G  A1300     255.621 115.677 -12.942  1.00 71.25      A16S
ATOM  27441  N9  G  A1300     254.370 114.927 -13.026  1.00 46.20      A16S
ATOM  27442  C4  G  A1300     253.118 115.486 -13.106  1.00 46.20      A16S
ATOM  27443  N3  G  A1300     252.841 116.806 -13.053  1.00 46.20      A16S
ATOM  27444  C2  G  A1300     251.558 117.049 -13.196  1.00 46.20      A16S
ATOM  27445  N2  G  A1300     251.118 118.321 -13.166  1.00 46.20      A16S
ATOM  27446  N1  G  A1300     250.614 116.066 -13.383  1.00 46.20      A16S
ATOM  27447  C6  G  A1300     250.881 114.702 -13.450  1.00 46.20      A16S
ATOM  27448  O6  G  A1300     249.962 113.906 -13.656  1.00 46.20      A16S
ATOM  27449  C5  G  A1300     252.256 114.432 -13.279  1.00 46.20      A16S
ATOM  27450  N7  G  A1300     252.941 113.226 -13.259  1.00 46.20      A16S
ATOM  27451  C8  G  A1300     254.193 113.568 -13.096  1.00 46.20      A16S
ATOM  27452  C2* G  A1300     256.478 115.535 -11.685  1.00 71.25      A16S
ATOM  27453  O2* G  A1300     256.942 116.827 -11.359  1.00 71.25      A16S
ATOM  27454  C3* G  A1300     257.597 114.618 -12.164  1.00 71.25      A16S
ATOM  27455  O3* G  A1300     258.902 114.773 -11.541  1.00 71.25      A16S
ATOM  27456  P   U  A1301     259.137 115.729 -10.243  1.00 59.21      A16S
ATOM  27457  O1P U  A1301     260.446 115.275  -9.705  1.00 59.41      A16S
ATOM  27458  O2P U  A1301     257.959 115.768  -9.333  1.00 59.41      A16S
ATOM  27459  O5* U  A1301     259.391 117.176 -10.861  1.00 59.21      A16S
ATOM  27460  C5* U  A1301     260.520 117.379 -11.716  1.00 59.21      A16S
ATOM  27461  C4* U  A1301     260.713 118.837 -12.031  1.00 59.21      A16S
ATOM  27462  O4* U  A1301     259.644 119.281 -12.898  1.00 59.21      A16S
ATOM  27463  C1* U  A1301     259.058 120.441 -12.361  1.00 59.21      A16S
ATOM  27464  N1  U  A1301     257.617 120.426 -12.659  1.00 59.41      A16S
ATOM  27465  C6  U  A1301     256.872 119.284 -12.542  1.00 59.41      A16S
ATOM  27466  C2  U  A1301     257.038 121.605 -13.064  1.00 59.41      A16S
ATOM  27467  O2  U  A1301     257.655 122.643 -13.165  1.00 59.41      A16S
ATOM  27468  N3  U  A1301     255.703 121.526 -13.345  1.00 59.41      A16S
ATOM  27469  C4  U  A1301     254.899 120.413 -13.261  1.00 59.41      A16S
ATOM  27470  O4  U  A1301     253.721 120.482 -13.630  1.00 59.41      A16S
ATOM  27471  C5  U  A1301     255.568 119.237 -12.817  1.00 59.41      A16S
ATOM  27472  C2* U  A1301     259.395 120.450 -10.871  1.00 59.21      A16S
ATOM  27473  O2* U  A1301     259.387 121.783 -10.391  1.00 59.21      A16S
ATOM  27474  C3* U  A1301     260.783 119.811 -10.859  1.00 59.21      A16S
ATOM  27475  O3* U  A1301     261.785 120.797 -11.139  1.00 59.21      A16S
ATOM  27476  P   U  A1302     262.697 121.392  -9.950  1.00 56.08      A16S
ATOM  27477  O1P U  A1302     263.733 122.199 -10.627  1.00 77.41      A16S
ATOM  27478  O2P U  A1302     263.098 120.294  -9.036  1.00 77.41      A16S
ATOM  27479  O5* U  A1302     261.748 122.417  -9.174  1.00 56.08      A16S
ATOM  27480  C5* U  A1302     261.253 122.108  -7.848  1.00 56.08      A16S
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ATOM  27481  C4* U   A1302     260.624 123.328  -7.192  1.00 56.08       A16S
ATOM  27482  O4* U   A1302     261.623 124.357  -6.990  1.00 56.08       A16S
ATOM  27483  C1* U   A1302     261.152 125.581  -7.507  1.00 56.08       A16S
ATOM  27484  N1  U   A1302     262.312 126.367  -7.943  1.00 77.41       A16S
ATOM  27485  C6  U   A1302     263.281 125.828  -8.755  1.00 77.41       A16S
ATOM  27486  C2  U   A1302     262.421 127.667  -7.471  1.00 77.41       A16S
ATOM  27487  O2  U   A1302     261.570 128.203  -6.781  1.00 77.41       A16S
ATOM  27488  N3  U   A1302     263.568 128.320  -7.836  1.00 77.41       A16S
ATOM  27489  C4  U   A1302     264.593 127.824  -8.609  1.00 77.41       A16S
ATOM  27490  O4  U   A1302     265.609 128.498  -8.760  1.00 77.41       A16S
ATOM  27491  C5  U   A1302     264.388 126.492  -9.092  1.00 77.41       A16S
ATOM  27492  C2* U   A1302     260.094 125.224  -8.549  1.00 56.08       A16S
ATOM  27493  O2* U   A1302     259.204 126.310  -8.750  1.00 56.08       A16S
ATOM  27494  C3* U   A1302     259.443 124.004  -7.889  1.00 56.08       A16S
ATOM  27495  O3* U   A1302     258.538 124.465  -6.867  1.00 56.08       A16S
ATOM  27496  P   C   A1303     257.274 123.564  -6.419  1.00 54.65       A16S
ATOM  27497  O1P C   A1303     256.453 124.411  -5.506  1.00 33.72       A16S
ATOM  27498  O2P C   A1303     257.750 122.225  -5.952  1.00 33.72       A16S
ATOM  27499  O5* C   A1303     256.449 123.377  -7.771  1.00 54.65       A16S
ATOM  27500  C5* C   A1303     256.171 124.502  -8.639  1.00 54.65       A16S
ATOM  27501  C4* C   A1303     254.928 124.241  -9.461  1.00 54.65       A16S
ATOM  27502  O4* C   A1303     255.168 123.155 -10.390  1.00 54.65       A16S
ATOM  27503  C1* C   A1303     253.999 122.365 -10.518  1.00 54.65       A16S
ATOM  27504  N1  C   A1303     254.313 120.985 -10.089  1.00 33.72       A16S
ATOM  27505  C6  C   A1303     255.569 120.647  -9.696  1.00 33.72       A16S
ATOM  27506  C2  C   A1303     253.315 120.020 -10.109  1.00 33.72       A16S
ATOM  27507  O2  C   A1303     252.176 120.346 -10.416  1.00 33.72       A16S
ATOM  27508  N3  C   A1303     253.605 118.754  -9.787  1.00 33.72       A16S
ATOM  27509  C4  C   A1303     254.832 118.431  -9.430  1.00 33.72       A16S
ATOM  27510  N4  C   A1303     255.076 117.160  -9.131  1.00 33.72       A16S
ATOM  27511  C5  C   A1303     255.868 119.391  -9.361  1.00 33.72       A16S
ATOM  27512  C2* C   A1303     252.899 123.033  -9.697  1.00 54.65       A16S
ATOM  27513  O2* C   A1303     252.154 123.878 -10.545  1.00 54.65       A16S
ATOM  27514  C3* C   A1303     253.710 123.801  -8.665  1.00 54.65       A16S
ATOM  27515  O3* C   A1303     252.998 124.908  -8.124  1.00 54.65       A16S
ATOM  27516  P   G   A1304     252.497 124.864  -6.594  1.00 49.53       A16S
ATOM  27517  O1P G   A1304     251.409 125.880  -6.524  1.00 58.04       A16S
ATOM  27518  O2P G   A1304     253.677 124.981  -5.688  1.00 58.04       A16S
ATOM  27519  O5* G   A1304     251.860 123.406  -6.436  1.00 49.53       A16S
ATOM  27520  C5* G   A1304     250.591 123.088  -7.056  1.00 49.53       A16S
ATOM  27521  C4* G   A1304     250.093 121.737  -6.599  1.00 49.53       A16S
ATOM  27522  O4* G   A1304     250.739 120.671  -7.328  1.00 49.53       A16S
ATOM  27523  C1* G   A1304     250.969 119.568  -6.469  1.00 49.53       A16S
ATOM  27524  N9  G   A1304     252.416 119.387  -6.395  1.00 58.04       A16S
ATOM  27525  C4  G   A1304     253.128 118.209  -6.346  1.00 58.04       A16S
ATOM  27526  N3  G   A1304     252.615 116.963  -6.358  1.00 58.04       A16S
ATOM  27527  C2  G   A1304     253.565 116.039  -6.290  1.00 58.04       A16S
ATOM  27528  N2  G   A1304     253.244 114.732  -6.283  1.00 58.04       A16S
ATOM  27529  N1  G   A1304     254.903 116.322  -6.221  1.00 58.04       A16S
ATOM  27530  C6  G   A1304     255.450 117.600  -6.205  1.00 58.04       A16S
ATOM  27531  O6  G   A1304     256.685 117.754  -6.127  1.00 58.04       A16S
ATOM  27532  C5  G   A1304     254.451 118.590  -6.278  1.00 58.04       A16S
ATOM  27533  N7  G   A1304     254.571 119.970  -6.293  1.00 58.04       A16S
ATOM  27534  C8  G   A1304     253.345 120.400  -6.362  1.00 58.04       A16S
ATOM  27535  C2* G   A1304     250.313 119.895  -5.121  1.00 49.53       A16S
ATOM  27536  O2* G   A1304     249.001 119.376  -5.110  1.00 49.53       A16S
ATOM  27537  C3* G   A1304     250.309 121.420  -5.134  1.00 49.53       A16S
ATOM  27538  O3* G   A1304     249.232 121.965  -4.398  1.00 49.53       A16S
ATOM  27539  P   G   A1305     249.420 122.348  -2.855  1.00 36.31       A16S
ATOM  27540  O1P G   A1305     248.727 123.649  -2.655  1.00 62.05       A16S
ATOM  27541  O2P G   A1305     250.829 122.195  -2.468  1.00 62.05       A16S
ATOM  27542  O5* G   A1305     248.571 121.244  -2.098  1.00 36.31       A16S
ATOM  27543  C5* G   A1305     248.772 120.977  -0.720  1.00 36.31       A16S
ATOM  27544  C4* G   A1305     249.122 119.540  -0.560  1.00 36.31       A16S
ATOM  27545  O4* G   A1305     250.072 119.278  -1.592  1.00 36.31       A16S
ATOM  27546  C1* G   A1305     251.131 118.530  -1.071  1.00 36.31       A16S
ATOM  27547  N9  G   A1305     252.349 119.243  -1.417  1.00 62.05       A16S
ATOM  27548  C4  G   A1305     253.448 118.738  -2.067  1.00 62.05       A16S
ATOM  27549  N3  G   A1305     253.642 117.457  -2.418  1.00 62.05       A16S
ATOM  27550  C2  G   A1305     254.782 117.295  -3.058  1.00 62.05       A16S
ATOM  27551  N2  G   A1305     255.150 116.086  -3.478  1.00 62.05       A16S
ATOM  27552  N1  G   A1305     255.652 118.308  -3.335  1.00 62.05       A16S
ATOM  27553  C6  G   A1305     255.470 119.636  -2.984  1.00 62.05       A16S
ATOM  27554  O6  G   A1305     256.322 120.486  -3.294  1.00 62.05       A16S
ATOM  27555  C5  G   A1305     254.264 119.820  -2.291  1.00 62.05       A16S
ATOM  27556  N7  G   A1305     253.714 120.970  -1.753  1.00 62.05       A16S
ATOM  27557  C8  G   A1305     252.589 120.575  -1.230  1.00 62.05       A16S
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ATOM  27558  C2* G   A1305     250.832 118.169   0.394  1.00 36.31      A16S
ATOM  27559  O2* G   A1305     250.318 116.863   0.440  1.00 36.31      A16S
ATOM  27560  C3* G   A1305     249.738 119.159   0.781  1.00 36.31      A16S
ATOM  27561  O3* G   A1305     248.655 118.540   1.540  1.00 36.31      A16S
ATOM  27562  P    A   A1306     248.943 117.564   2.816  1.00 46.06      A16S
ATOM  27563  O1P A   A1306     247.910 117.922   3.830  1.00 52.36      A16S
ATOM  27564  O2P A   A1306     250.380 117.571   3.205  1.00 52.36      A16S
ATOM  27565  O5* A   A1306     248.601 116.091   2.301  1.00 46.06      A16S
ATOM  27566  C5* A   A1306     247.265 115.731   1.890  1.00 46.06      A16S
ATOM  27567  C4* A   A1306     247.263 114.366   1.241  1.00 46.06      A16S
ATOM  27568  O4* A   A1306     248.108 114.392   0.065  1.00 46.06      A16S
ATOM  27569  C1* A   A1306     248.771 113.146  -0.079  1.00 46.06      A16S
ATOM  27570  N9   A   A1306     250.216 113.377  -0.064  1.00 52.36      A16S
ATOM  27571  C4   A   A1306     251.206 112.436  -0.204  1.00 52.36      A16S
ATOM  27572  N3   A   A1306     251.060 111.123  -0.419  1.00 52.36      A16S
ATOM  27573  C2   A   A1306     252.240 110.529  -0.474  1.00 52.36      A16S
ATOM  27574  N1   A   A1306     253.456 111.055  -0.339  1.00 52.36      A16S
ATOM  27575  C6   A   A1306     253.561 112.378  -0.114  1.00 52.36      A16S
ATOM  27576  N6   A   A1306     254.766 112.907   0.062  1.00 52.36      A16S
ATOM  27577  C5   A   A1306     252.391 113.119  -0.057  1.00 52.36      A16S
ATOM  27578  N7   A   A1306     252.160 114.468   0.135  1.00 52.36      A16S
ATOM  27579  C8   A   A1306     250.860 114.563   0.118  1.00 52.36      A16S
ATOM  27580  C2* A   A1306     248.309 112.231   1.054  1.00 46.06      A16S
ATOM  27581  O2* A   A1306     247.297 111.397   0.549  1.00 46.06      A16S
ATOM  27582  C3* A   A1306     247.817 113.233   2.091  1.00 46.06      A16S
ATOM  27583  O3* A   A1306     246.795 112.677   2.902  1.00 46.06      A16S
ATOM  27584  P    U   A1307     247.047 112.476   4.472  1.00 47.55      A16S
ATOM  27585  O1P U   A1307     245.759 112.063   5.087  1.00 64.50      A16S
ATOM  27586  O2P U   A1307     247.741 113.693   4.967  1.00 64.50      A16S
ATOM  27587  O5* U   A1307     248.060 111.254   4.544  1.00 47.55      A16S
ATOM  27588  C5* U   A1307     247.735 110.030   3.912  1.00 47.55      A16S
ATOM  27589  C4* U   A1307     248.986 109.300   3.504  1.00 47.55      A16S
ATOM  27590  O4* U   A1307     249.736 110.056   2.520  1.00 47.55      A16S
ATOM  27591  C1* U   A1307     251.115 109.740   2.641  1.00 47.55      A16S
ATOM  27592  N1   U   A1307     251.877 110.982   2.833  1.00 64.50      A16S
ATOM  27593  C6   U   A1307     251.259 112.171   3.121  1.00 64.50      A16S
ATOM  27594  C2   U   A1307     253.250 110.910   2.712  1.00 64.50      A16S
ATOM  27595  O2   U   A1307     253.844 109.873   2.454  1.00 64.50      A16S
ATOM  27596  N3   U   A1307     253.908 112.098   2.901  1.00 64.50      A16S
ATOM  27597  C4   U   A1307     253.352 113.317   3.190  1.00 64.50      A16S
ATOM  27598  O4   U   A1307     254.087 114.289   3.365  1.00 64.50      A16S
ATOM  27599  C5   U   A1307     251.931 113.310   3.297  1.00 64.50      A16S
ATOM  27600  C2* U   A1307     251.275 108.767   3.812  1.00 47.55      A16S
ATOM  27601  O2* U   A1307     251.358 107.439   3.332  1.00 47.55      A16S
ATOM  27602  C3* U   A1307     249.995 109.018   4.595  1.00 47.55      A16S
ATOM  27603  O3* U   A1307     249.612 107.898   5.357  1.00 47.55      A16S
ATOM  27604  P    U   A1308     249.599 108.017   6.945  1.00 57.16      A16S
ATOM  27605  O1P U   A1308     248.819 106.872   7.468  1.00 50.45      A16S
ATOM  27606  O2P U   A1308     249.192 109.410   7.275  1.00 50.45      A16S
ATOM  27607  O5* U   A1308     251.120 107.788   7.334  1.00 57.16      A16S
ATOM  27608  C5* U   A1308     251.730 106.512   7.109  1.00 57.16      A16S
ATOM  27609  C4* U   A1308     253.234 106.644   7.036  1.00 57.16      A16S
ATOM  27610  O4* U   A1308     253.602 107.542   5.960  1.00 57.16      A16S
ATOM  27611  C1* U   A1308     254.820 108.186   6.279  1.00 57.16      A16S
ATOM  27612  N1   U   A1308     254.624 109.638   6.203  1.00 50.45      A16S
ATOM  27613  C6   U   A1308     253.373 110.188   6.094  1.00 50.45      A16S
ATOM  27614  C2   U   A1308     255.754 110.439   6.247  1.00 50.45      A16S
ATOM  27615  O2   U   A1308     256.895 109.992   6.308  1.00 50.45      A16S
ATOM  27616  N3   U   A1308     255.508 111.784   6.202  1.00 50.45      A16S
ATOM  27617  C4   U   A1308     254.286 112.397   6.094  1.00 50.45      A16S
ATOM  27618  O4   U   A1308     254.235 113.627   6.019  1.00 50.45      A16S
ATOM  27619  C5   U   A1308     253.170 111.501   6.033  1.00 50.45      A16S
ATOM  27620  C2* U   A1308     255.257 107.711   7.664  1.00 57.16      A16S
ATOM  27621  O2* U   A1308     256.193 106.666   7.506  1.00 57.16      A16S
ATOM  27622  C3* U   A1308     253.947 107.212   8.252  1.00 57.16      A16S
ATOM  27623  O3* U   A1308     254.177 106.209   9.222  1.00 57.16      A16S
ATOM  27624  P    G   A1309     254.464 106.631  10.738  1.00 68.05      A16S
ATOM  27625  O1P G   A1309     254.189 105.414  11.544  1.00 43.54      A16S
ATOM  27626  O2P G   A1309     253.759 107.909  11.048  1.00 43.54      A16S
ATOM  27627  O5* G   A1309     256.026 106.932  10.753  1.00 68.05      A16S
ATOM  27628  C5* G   A1309     256.982 105.869  10.609  1.00 68.05      A16S
ATOM  27629  C4* G   A1309     258.384 106.417  10.693  1.00 68.05      A16S
ATOM  27630  O4* G   A1309     258.638 107.277   9.555  1.00 68.05      A16S
ATOM  27631  C1* G   A1309     259.432 108.377   9.954  1.00 68.05      A16S
ATOM  27632  N9   G   A1309     258.622 109.577   9.818  1.00 43.54      A16S
ATOM  27633  C4   G   A1309     259.070 110.869   9.743  1.00 43.54      A16S
ATOM  27634  N3   G   A1309     260.350 111.263   9.793  1.00 43.54      A16S
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ATOM  27635  C2  G  A1309     260.463 112.575   9.683  1.00 43.54      A16S
ATOM  27636  N2  G  A1309     261.673 113.146   9.720  1.00 43.54      A16S
ATOM  27637  N1  G  A1309     259.406 113.427   9.528  1.00 43.54      A16S
ATOM  27638  C6  G  A1309     258.081 113.039   9.463  1.00 43.54      A16S
ATOM  27639  O6  G  A1309     257.199 113.889   9.279  1.00 43.54      A16S
ATOM  27640  C5  G  A1309     257.944 111.639   9.601  1.00 43.54      A16S
ATOM  27641  N7  G  A1309     256.808 110.850   9.611  1.00 43.54      A16S
ATOM  27642  C8  G  A1309     257.258 109.636   9.742  1.00 43.54      A16S
ATOM  27643  C2* G  A1309     259.812 108.164  11.415  1.00 68.05      A16S
ATOM  27644  O2* G  A1309     261.070 107.521  11.469  1.00 68.05      A16S
ATOM  27645  C3* G  A1309     258.661 107.294  11.901  1.00 68.05      A16S
ATOM  27646  O3* G  A1309     258.988 106.534  13.054  1.00 68.05      A16S
ATOM  27647  P   G  A1310     258.732 107.156  14.512  1.00 95.32      A16S
ATOM  27648  O1P G  A1310     259.210 106.134  15.491  1.00 56.97      A16S
ATOM  27649  O2P G  A1310     257.333 107.640  14.583  1.00 56.97      A16S
ATOM  27650  O5* G  A1310     259.676 108.443  14.554  1.00 95.32      A16S
ATOM  27651  C5* G  A1310     261.111 108.310  14.568  1.00 95.32      A16S
ATOM  27652  C4* G  A1310     261.778 109.668  14.646  1.00 95.32      A16S
ATOM  27653  O4* G  A1310     261.559 110.404  13.416  1.00 95.32      A16S
ATOM  27654  C1* G  A1310     261.544 111.794  13.693  1.00 95.32      A16S
ATOM  27655  N9  G  A1310     260.276 112.360  13.238  1.00 56.97      A16S
ATOM  27656  C4  G  A1310     260.006 113.691  13.042  1.00 56.97      A16S
ATOM  27657  N3  G  A1310     260.881 114.703  13.181  1.00 56.97      A16S
ATOM  27658  C2  G  A1310     260.313 115.877  12.971  1.00 56.97      A16S
ATOM  27659  N2  G  A1310     261.042 116.998  13.067  1.00 56.97      A16S
ATOM  27660  N1  G  A1310     258.990 116.039  12.656  1.00 56.97      A16S
ATOM  27661  C6  G  A1310     258.072 115.006  12.517  1.00 56.97      A16S
ATOM  27662  O6  G  A1310     256.890 115.260  12.262  1.00 56.97      A16S
ATOM  27663  C5  G  A1310     258.671 113.749  12.720  1.00 56.97      A16S
ATOM  27664  N7  G  A1310     258.122 112.480  12.662  1.00 56.97      A16S
ATOM  27665  C8  G  A1310     259.111 111.687  12.967  1.00 56.97      A16S
ATOM  27666  C2* G  A1310     261.747 111.975  15.201  1.00 95.32      A16S
ATOM  27667  O2* G  A1310     263.108 112.256  15.456  1.00 95.32      A16S
ATOM  27668  C3* G  A1310     261.325 110.616  15.747  1.00 95.32      A16S
ATOM  27669  O3* G  A1310     261.968 110.325  16.990  1.00 95.32      A16S
ATOM  27670  P   G  A1311     261.232 110.674  18.384  1.00 80.69      A16S
ATOM  27671  O1P G  A1311     262.014 109.984  19.443  1.00 75.92      A16S
ATOM  27672  O2P G  A1311     259.774 110.407  18.265  1.00 75.92      A16S
ATOM  27673  O5* G  A1311     261.436 112.248  18.541  1.00 80.69      A16S
ATOM  27674  C5* G  A1311     262.759 112.795  18.670  1.00 80.69      A16S
ATOM  27675  C4* G  A1311     262.758 114.282  18.402  1.00 80.69      A16S
ATOM  27676  O4* G  A1311     262.207 114.550  17.088  1.00 80.69      A16S
ATOM  27677  C1* G  A1311     261.607 115.837  17.081  1.00 80.69      A16S
ATOM  27678  N9  G  A1311     260.210 115.728  16.663  1.00 75.92      A16S
ATOM  27679  C4  G  A1311     259.415 116.783  16.284  1.00 75.92      A16S
ATOM  27680  N3  G  A1311     259.795 118.078  16.233  1.00 75.92      A16S
ATOM  27681  C2  G  A1311     258.814 118.868  15.841  1.00 75.92      A16S
ATOM  27682  N2  G  A1311     259.021 120.184  15.751  1.00 75.92      A16S
ATOM  27683  N1  G  A1311     257.561 118.428  15.514  1.00 75.92      A16S
ATOM  27684  C6  G  A1311     257.144 117.102  15.560  1.00 75.92      A16S
ATOM  27685  O6  G  A1311     255.988 116.818  15.251  1.00 75.92      A16S
ATOM  27686  C5  G  A1311     258.189 116.235  15.988  1.00 75.92      A16S
ATOM  27687  N7  G  A1311     258.207 114.856  16.174  1.00 75.92      A16S
ATOM  27688  C8  G  A1311     259.424 114.598  16.573  1.00 75.92      A16S
ATOM  27689  C2* G  A1311     261.720 116.412  18.490  1.00 80.69      A16S
ATOM  27690  O2* G  A1311     262.813 117.305  18.573  1.00 80.69      A16S
ATOM  27691  C3* G  A1311     261.918 115.152  19.315  1.00 80.69      A16S
ATOM  27692  O3* G  A1311     262.544 115.447  20.539  1.00 80.69      A16S
ATOM  27693  P   G  A1312     261.637 115.600  21.851  1.00 73.24      A16S
ATOM  27694  O1P G  A1312     262.585 115.901  22.952  1.00 60.63      A16S
ATOM  27695  O2P G  A1312     260.779 114.384  21.935  1.00 60.63      A16S
ATOM  27696  O5* G  A1312     260.731 116.893  21.563  1.00 73.24      A16S
ATOM  27697  C5* G  A1312     261.329 118.204  21.607  1.00 73.24      A16S
ATOM  27698  C4* G  A1312     260.397 119.293  21.100  1.00 73.24      A16S
ATOM  27699  O4* G  A1312     259.905 118.977  19.777  1.00 73.24      A16S
ATOM  27700  C1* G  A1312     258.722 119.722  19.531  1.00 73.24      A16S
ATOM  27701  N9  G  A1312     257.634 118.827  19.136  1.00 60.63      A16S
ATOM  27702  C4  G  A1312     256.434 119.229  18.598  1.00 60.63      A16S
ATOM  27703  N3  G  A1312     256.071 120.502  18.345  1.00 60.63      A16S
ATOM  27704  C2  G  A1312     254.855 120.578  17.838  1.00 60.63      A16S
ATOM  27705  N2  G  A1312     254.339 121.773  17.538  1.00 60.63      A16S
ATOM  27706  N1  G  A1312     254.057 119.490  17.590  1.00 60.63      A16S
ATOM  27707  C6  G  A1312     254.408 118.167  17.841  1.00 60.63      A16S
ATOM  27708  O6  G  A1312     253.611 117.257  17.578  1.00 60.63      A16S
ATOM  27709  C5  G  A1312     255.717 118.071  18.395  1.00 60.63      A16S
ATOM  27710  N7  G  A1312     256.451 116.960  18.791  1.00 60.63      A16S
ATOM  27711  C8  G  A1312     257.580 117.455  19.224  1.00 60.63      A16S
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ATOM  27712  C2* G   A1312     258.386 120.491  20.803  1.00 73.24      A16S
ATOM  27713  O2* G   A1312     258.884 121.803  20.651  1.00 73.24      A16S
ATOM  27714  C3* G   A1312     259.143 119.697  21.864  1.00 73.24      A16S
ATOM  27715  O3* G   A1312     259.403 120.543  22.985  1.00 73.24      A16S
ATOM  27716  P    U   A1313     258.274 120.729  24.125  1.00 64.24      A16S
ATOM  27717  O1P U   A1313     258.878 121.402  25.298  1.00 84.80      A16S
ATOM  27718  O2P U   A1313     257.597 119.417  24.302  1.00 84.80      A16S
ATOM  27719  O5* U   A1313     257.248 121.769  23.496  1.00 64.24      A16S
ATOM  27720  C5* U   A1313     257.682 123.090  23.179  1.00 64.24      A16S
ATOM  27721  C4* U   A1313     256.542 123.905  22.637  1.00 64.24      A16S
ATOM  27722  O4* U   A1313     256.091 123.338  21.386  1.00 64.24      A16S
ATOM  27723  C1* U   A1313     254.703 123.588  21.226  1.00 64.24      A16S
ATOM  27724  N1   U   A1313     253.993 122.308  21.054  1.00 84.80      A16S
ATOM  27725  C6   U   A1313     254.470 121.133  21.599  1.00 84.80      A16S
ATOM  27726  C2   U   A1313     252.816 122.321  20.314  1.00 84.80      A16S
ATOM  27727  O2   U   A1313     252.333 123.339  19.837  1.00 84.80      A16S
ATOM  27728  N3   U   A1313     252.222 121.098  20.158  1.00 84.80      A16S
ATOM  27729  C4   U   A1313     252.657 119.893  20.654  1.00 84.80      A16S
ATOM  27730  O4   U   A1313     252.071 118.871  20.323  1.00 84.80      A16S
ATOM  27731  C5   U   A1313     253.855 119.958  21.431  1.00 84.80      A16S
ATOM  27732  C2* U   A1313     254.224 124.352  22.455  1.00 64.24      A16S
ATOM  27733  O2* U   A1313     254.207 125.740  22.172  1.00 64.24      A16S
ATOM  27734  C3* U   A1313     255.281 123.966  23.479  1.00 64.24      A16S
ATOM  27735  O3* U   A1313     255.352 124.908  24.531  1.00 64.24      A16S
ATOM  27736  P    C   A1314     254.419 124.707  25.817  1.00117.06     A16S
ATOM  27737  O1P C   A1314     254.718 125.825  26.738  1.00 44.97      A16S
ATOM  27738  O2P C   A1314     254.554 123.297  26.287  1.00 44.97      A16S
ATOM  27739  O5* C   A1314     252.948 124.913  25.244  1.00117.06     A16S
ATOM  27740  C5* C   A1314     252.547 126.187  24.706  1.00117.06     A16S
ATOM  27741  C4* C   A1314     251.116 126.136  24.221  1.00117.06     A16S
ATOM  27742  O4* C   A1314     251.015 125.302  23.039  1.00117.06     A16S
ATOM  27743  C1* C   A1314     249.770 124.624  23.040  1.00117.06     A16S
ATOM  27744  N1   C   A1314     250.025 123.181  23.150  1.00 44.97      A16S
ATOM  27745  C6   C   A1314     251.265 122.706  23.466  1.00 44.97      A16S
ATOM  27746  C2   C   A1314     248.970 122.299  22.937  1.00 44.97      A16S
ATOM  27747  O2   C   A1314     247.850 122.761  22.664  1.00 44.97      A16S
ATOM  27748  N3   C   A1314     249.188 120.966  23.044  1.00 44.97      A16S
ATOM  27749  C4   C   A1314     250.401 120.513  23.359  1.00 44.97      A16S
ATOM  27750  N4   C   A1314     250.574 119.190  23.467  1.00 44.97      A16S
ATOM  27751  C5   C   A1314     251.494 121.393  23.581  1.00 44.97      A16S
ATOM  27752  C2* C   A1314     248.981 125.112  24.251  1.00117.06     A16S
ATOM  27753  O2* C   A1314     248.135 126.175  23.862  1.00117.06     A16S
ATOM  27754  C3* C   A1314     250.102 125.543  25.181  1.00117.06     A16S
ATOM  27755  O3* C   A1314     249.664 126.465  26.153  1.00117.06     A16S
ATOM  27756  P    U   A1315     249.163 125.921  27.574  1.00 78.42      A16S
ATOM  27757  O1P U   A1315     249.078 127.114  28.460  1.00 80.02      A16S
ATOM  27758  O2P U   A1315     249.993 124.759  27.975  1.00 80.02      A16S
ATOM  27759  O5* U   A1315     247.697 125.370  27.279  1.00 78.42      A16S
ATOM  27760  C5* U   A1315     246.648 126.254  26.820  1.00 78.42      A16S
ATOM  27761  C4* U   A1315     245.415 125.467  26.430  1.00 78.42      A16S
ATOM  27762  O4* U   A1315     245.699 124.650  25.267  1.00 78.42      A16S
ATOM  27763  C1* U   A1315     244.938 123.459  25.332  1.00 78.42      A16S
ATOM  27764  N1   U   A1315     245.842 122.300  25.269  1.00 80.02      A16S
ATOM  27765  C6   U   A1315     247.087 122.325  25.839  1.00 80.02      A16S
ATOM  27766  C2   U   A1315     245.386 121.166  24.618  1.00 80.02      A16S
ATOM  27767  O2   U   A1315     244.294 121.100  24.084  1.00 80.02      A16S
ATOM  27768  N3   U   A1315     246.256 120.110  24.609  1.00 80.02      A16S
ATOM  27769  C4   U   A1315     247.511 120.068  25.161  1.00 80.02      A16S
ATOM  27770  O4   U   A1315     248.198 119.051  25.025  1.00 80.02      A16S
ATOM  27771  C5   U   A1315     247.915 121.276  25.809  1.00 80.02      A16S
ATOM  27772  C2* U   A1315     244.102 123.499  26.611  1.00 78.42      A16S
ATOM  27773  O2* U   A1315     242.809 123.966  26.291  1.00 78.42      A16S
ATOM  27774  C3* U   A1315     244.875 124.493  27.466  1.00 78.42      A16S
ATOM  27775  O3* U   A1315     244.014 125.148  28.390  1.00 78.42      A16S
ATOM  27776  P    G   A1316     244.193 124.902  29.974  1.00 90.65      A16S
ATOM  27777  O1P G   A1316     243.369 125.951  30.625  1.00 89.57      A16S
ATOM  27778  O2P G   A1316     245.636 124.782  30.315  1.00 89.57      A16S
ATOM  27779  O5* G   A1316     243.530 123.483  30.261  1.00 90.65      A16S
ATOM  27780  C5* G   A1316     242.111 123.306  30.218  1.00 90.65      A16S
ATOM  27781  C4* G   A1316     241.795 121.881  29.871  1.00 90.65      A16S
ATOM  27782  O4* G   A1316     242.492 121.551  28.643  1.00 90.65      A16S
ATOM  27783  C1* G   A1316     242.930 120.207  28.687  1.00 90.65      A16S
ATOM  27784  N9   G   A1316     244.380 120.193  28.545  1.00 89.57      A16S
ATOM  27785  C4   G   A1316     245.159 119.094  28.273  1.00 89.57      A16S
ATOM  27786  N3   G   A1316     244.713 117.844  28.033  1.00 89.57      A16S
ATOM  27787  C2   G   A1316     245.705 116.992  27.850  1.00 89.57      A16S
ATOM  27788  N2   G   A1316     245.446 115.709  27.601  1.00 89.57      A16S
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ATOM  27789  N1  G  A1316     247.027 117.335  27.902  1.00 89.57      A16S
ATOM  27790  C6  G  A1316     247.510 118.614  28.150  1.00 89.57      A16S
ATOM  27791  O6  G  A1316     248.729 118.811  28.194  1.00 89.57      A16S
ATOM  27792  C5  G  A1316     246.456 119.544  28.336  1.00 89.57      A16S
ATOM  27793  N7  G  A1316     246.492 120.906  28.596  1.00 89.57      A16S
ATOM  27794  C8  G  A1316     245.240 121.249  28.701  1.00 89.57      A16S
ATOM  27795  C2* G  A1316     242.485 119.609  30.026  1.00 90.65      A16S
ATOM  27796  O2* G  A1316     241.301 118.852  29.872  1.00 90.65      A16S
ATOM  27797  C3* G  A1316     242.289 120.857  30.876  1.00 90.65      A16S
ATOM  27798  O3* G  A1316     241.332 120.649  31.905  1.00 90.65      A16S
ATOM  27799  P   C  A1317     241.800 120.660  33.442  1.00 70.51      A16S
ATOM  27800  O1P C  A1317     242.760 121.793  33.572  1.00 69.58      A16S
ATOM  27801  O2P C  A1317     240.590 120.619  34.310  1.00 69.58      A16S
ATOM  27802  O5* C  A1317     242.567 119.274  33.644  1.00 70.51      A16S
ATOM  27803  C5* C  A1317     243.342 119.057  34.833  1.00 70.51      A16S
ATOM  27804  C4* C  A1317     243.699 117.597  35.012  1.00 70.51      A16S
ATOM  27805  O4* C  A1317     242.544 116.808  35.382  1.00 70.51      A16S
ATOM  27806  C1* C  A1317     242.777 115.454  35.034  1.00 70.51      A16S
ATOM  27807  N1  C  A1317     241.621 114.937  34.280  1.00 69.58      A16S
ATOM  27808  C6  C  A1317     240.804 115.780  33.578  1.00 69.58      A16S
ATOM  27809  C2  C  A1317     241.363 113.550  34.294  1.00 69.58      A16S
ATOM  27810  O2  C  A1317     242.130 112.795  34.910  1.00 69.58      A16S
ATOM  27811  N3  C  A1317     240.292 113.072  33.631  1.00 69.58      A16S
ATOM  27812  C4  C  A1317     239.496 113.905  32.961  1.00 69.58      A16S
ATOM  27813  N4  C  A1317     238.440 113.385  32.330  1.00 69.58      A16S
ATOM  27814  C5  C  A1317     239.743 115.311  32.909  1.00 69.58      A16S
ATOM  27815  C2* C  A1317     244.092 115.391  34.251  1.00 70.51      A16S
ATOM  27816  O2* C  A1317     245.132 114.929  35.090  1.00 70.51      A16S
ATOM  27817  C3* C  A1317     244.288 116.844  33.837  1.00 70.51      A16S
ATOM  27818  O3* C  A1317     245.658 117.130  33.641  1.00 70.51      A16S
ATOM  27819  P   A  A1318     246.164 117.544  32.180  1.00 88.07      A16S
ATOM  27820  O1P A  A1318     247.612 117.839  32.264  1.00 55.35      A16S
ATOM  27821  O2P A  A1318     245.232 118.587  31.683  1.00 55.35      A16S
ATOM  27822  O5* A  A1318     246.001 116.208  31.328  1.00 88.07      A16S
ATOM  27823  C5* A  A1318     246.705 115.014  31.715  1.00 88.07      A16S
ATOM  27824  C4* A  A1318     245.978 113.779  31.232  1.00 88.07      A16S
ATOM  27825  O4* A  A1318     244.576 113.901  31.571  1.00 88.07      A16S
ATOM  27826  C1* A  A1318     243.780 113.322  30.556  1.00 88.07      A16S
ATOM  27827  N9  A  A1318     242.898 114.368  30.036  1.00 55.35      A16S
ATOM  27828  C4  A  A1318     241.728 114.192  29.339  1.00 55.35      A16S
ATOM  27829  N3  A  A1318     241.168 113.029  28.961  1.00 55.35      A16S
ATOM  27830  C2  A  A1318     240.026 113.251  28.314  1.00 55.35      A16S
ATOM  27831  N1  A  A1318     239.422 114.414  28.027  1.00 55.35      A16S
ATOM  27832  C6  A  A1318     240.012 115.562  28.426  1.00 55.35      A16S
ATOM  27833  N6  A  A1318     239.409 116.719  28.154  1.00 55.35      A16S
ATOM  27834  C5  A  A1318     241.231 115.465  29.112  1.00 55.35      A16S
ATOM  27835  N7  A  A1318     242.082 116.425  29.638  1.00 55.35      A16S
ATOM  27836  C8  A  A1318     243.053 115.728  30.167  1.00 55.35      A16S
ATOM  27837  C2* A  A1318     244.722 112.691  29.527  1.00 88.07      A16S
ATOM  27838  O2* A  A1318     244.874 111.317  29.846  1.00 88.07      A16S
ATOM  27839  C3* A  A1318     246.001 113.500  29.738  1.00 88.07      A16S
ATOM  27840  O3* A  A1318     247.160 112.743  29.408  1.00 88.07      A16S
ATOM  27841  P   A  A1319     247.985 113.087  28.077  1.00 99.17      A16S
ATOM  27842  O1P A  A1319     249.184 112.218  28.062  1.00 50.70      A16S
ATOM  27843  O2P A  A1319     248.138 114.561  27.984  1.00 50.70      A16S
ATOM  27844  O5* A  A1319     247.037 112.591  26.898  1.00 99.17      A16S
ATOM  27845  C5* A  A1319     247.549 112.414  25.560  1.00 99.17      A16S
ATOM  27846  C4* A  A1319     246.433 112.558  24.549  1.00 99.17      A16S
ATOM  27847  O4* A  A1319     245.817 113.845  24.700  1.00 99.17      A16S
ATOM  27848  C1* A  A1319     245.083 114.099  23.538  1.00 99.17      A16S
ATOM  27849  N9  A  A1319     244.813 115.532  23.433  1.00 50.70      A16S
ATOM  27850  C4  A  A1319     243.631 116.062  22.975  1.00 50.70      A16S
ATOM  27851  N3  A  A1319     242.564 115.387  22.516  1.00 50.70      A16S
ATOM  27852  C2  A  A1319     241.596 116.227  22.173  1.00 50.70      A16S
ATOM  27853  N1  A  A1319     241.571 117.559  22.233  1.00 50.70      A16S
ATOM  27854  C6  A  A1319     242.660 118.208  22.693  1.00 50.70      A16S
ATOM  27855  N6  A  A1319     242.633 119.542  22.735  1.00 50.70      A16S
ATOM  27856  C5  A  A1319     243.758 117.432  23.094  1.00 50.70      A16S
ATOM  27857  N7  A  A1319     245.005 117.766  23.603  1.00 50.70      A16S
ATOM  27858  C8  A  A1319     245.595 116.606  23.780  1.00 50.70      A16S
ATOM  27859  C2* A  A1319     245.771 113.379  22.374  1.00 99.17      A16S
ATOM  27860  O2* A  A1319     244.795 112.610  21.695  1.00 99.17      A16S
ATOM  27861  C3* A  A1319     246.846 112.532  23.082  1.00 99.17      A16S
ATOM  27862  O3* A  A1319     246.782 111.185  22.614  1.00 99.17      A16S
ATOM  27863  P   C  A1320     248.011 110.182  22.871  1.00 74.72      A16S
ATOM  27864  O1P C  A1320     248.176 109.984  24.335  1.00 80.02      A16S
ATOM  27865  O2P C  A1320     249.154 110.682  22.061  1.00 80.02      A16S
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ATOM  27866  O5* C   A1320     247.504 108.789  22.278  1.00 74.72      A16S
ATOM  27867  C5* C   A1320     248.423 107.868  21.652  1.00 74.72      A16S
ATOM  27868  C4* C   A1320     247.720 106.579  21.277  1.00 74.72      A16S
ATOM  27869  O4* C   A1320     247.450 105.795  22.464  1.00 74.72      A16S
ATOM  27870  C1* C   A1320     246.214 105.117  22.320  1.00 74.72      A16S
ATOM  27871  N1   C   A1320     245.295 105.625  23.358  1.00 80.02      A16S
ATOM  27872  C6   C   A1320     245.389 106.917  23.802  1.00 80.02      A16S
ATOM  27873  C2   C   A1320     244.324 104.768  23.887  1.00 80.02      A16S
ATOM  27874  O2   C   A1320     244.253 103.605  23.470  1.00 80.02      A16S
ATOM  27875  N3   C   A1320     243.488 105.230  24.840  1.00 80.02      A16S
ATOM  27876  C4   C   A1320     243.596 106.490  25.271  1.00 80.02      A16S
ATOM  27877  N4   C   A1320     242.755 106.901  26.224  1.00 80.02      A16S
ATOM  27878  C5   C   A1320     244.570 107.385  24.748  1.00 80.02      A16S
ATOM  27879  C2* C   A1320     245.700 105.386  20.903  1.00 74.72      A16S
ATOM  27880  O2* C   A1320     246.103 104.338  20.040  1.00 74.72      A16S
ATOM  27881  C3* C   A1320     246.371 106.715  20.587  1.00 74.72      A16S
ATOM  27882  O3* C   A1320     246.502 106.932  19.196  1.00 74.72      A16S
ATOM  27883  P    C   A1321     245.435 107.857  18.443  1.00 76.95      A16S
ATOM  27884  O1P C   A1321     245.902 107.937  17.042  1.00 76.34      A16S
ATOM  27885  O2P C   A1321     245.219 109.103  19.217  1.00 76.34      A16S
ATOM  27886  O5* C   A1321     244.104 106.990  18.483  1.00 76.95      A16S
ATOM  27887  C5* C   A1321     244.071 105.710  17.839  1.00 76.95      A16S
ATOM  27888  C4* C   A1321     242.904 104.891  18.331  1.00 76.95      A16S
ATOM  27889  O4* C   A1321     243.045 104.646  19.750  1.00 76.95      A16S
ATOM  27890  C1* C   A1321     241.765 104.594  20.349  1.00 76.95      A16S
ATOM  27891  N1   C   A1321     241.676 105.664  21.361  1.00 76.34      A16S
ATOM  27892  C6   C   A1321     242.000 106.955  21.047  1.00 76.34      A16S
ATOM  27893  C2   C   A1321     241.238 105.342  22.652  1.00 76.34      A16S
ATOM  27894  O2   C   A1321     240.975 104.158  22.928  1.00 76.34      A16S
ATOM  27895  N3   C   A1321     241.115 106.323  23.566  1.00 76.34      A16S
ATOM  27896  C4   C   A1321     241.421 107.577  23.246  1.00 76.34      A16S
ATOM  27897  N4   C   A1321     241.277 108.509  24.186  1.00 76.34      A16S
ATOM  27898  C5   C   A1321     241.887 107.931  21.950  1.00 76.34      A16S
ATOM  27899  C2* C   A1321     240.723 104.752  19.239  1.00 76.95      A16S
ATOM  27900  O2* C   A1321     240.305 103.469  18.816  1.00 76.95      A16S
ATOM  27901  C3* C   A1321     241.519 105.499  18.175  1.00 76.95      A16S
ATOM  27902  O3* C   A1321     241.002 105.276  16.871  1.00 76.95      A16S
ATOM  27903  P    C   A1322     240.291 106.477  16.072  1.00 68.87      A16S
ATOM  27904  O1P C   A1322     240.423 106.153  14.619  1.00 83.59      A16S
ATOM  27905  O2P C   A1322     238.947 106.716  16.643  1.00 83.59      A16S
ATOM  27906  O5* C   A1322     241.180 107.761  16.376  1.00 68.87      A16S
ATOM  27907  C5* C   A1322     241.062 108.919  15.538  1.00 68.87      A16S
ATOM  27908  C4* C   A1322     241.057 110.186  16.360  1.00 68.87      A16S
ATOM  27909  O4* C   A1322     240.024 110.110  17.375  1.00 68.87      A16S
ATOM  27910  C1* C   A1322     240.575 110.461  18.628  1.00 68.87      A16S
ATOM  27911  N1   C   A1322     239.907 109.694  19.689  1.00 83.59      A16S
ATOM  27912  C6   C   A1322     239.422 108.440  19.453  1.00 83.59      A16S
ATOM  27913  C2   C   A1322     239.773 110.275  20.953  1.00 83.59      A16S
ATOM  27914  O2   C   A1322     240.237 111.412  21.153  1.00 83.59      A16S
ATOM  27915  N3   C   A1322     239.151 109.585  21.926  1.00 83.59      A16S
ATOM  27916  C4   C   A1322     238.683 108.360  21.684  1.00 83.59      A16S
ATOM  27917  N4   C   A1322     238.085 107.709  22.684  1.00 83.59      A16S
ATOM  27918  C5   C   A1322     238.811 107.745  20.413  1.00 83.59      A16S
ATOM  27919  C2* C   A1322     242.075 110.201  18.529  1.00 68.87      A16S
ATOM  27920  O2* C   A1322     242.740 111.022  19.471  1.00 68.87      A16S
ATOM  27921  C3* C   A1322     242.347 110.586  17.076  1.00 68.87      A16S
ATOM  27922  O3* C   A1322     242.416 112.003  16.993  1.00 68.87      A16S
ATOM  27923  P    G   A1323     243.815 112.742  16.708  1.00 58.55      A16S
ATOM  27924  O1P G   A1323     244.041 112.836  15.241  1.00 70.98      A16S
ATOM  27925  O2P G   A1323     244.856 112.124  17.574  1.00 70.98      A16S
ATOM  27926  O5* G   A1323     243.502 114.222  17.199  1.00 58.55      A16S
ATOM  27927  C5* G   A1323     242.167 114.726  17.115  1.00 58.55      A16S
ATOM  27928  C4* G   A1323     242.119 116.164  17.528  1.00 58.55      A16S
ATOM  27929  O4* G   A1323     242.495 116.276  18.920  1.00 58.55      A16S
ATOM  27930  C1* G   A1323     243.112 117.532  19.140  1.00 58.55      A16S
ATOM  27931  N9   G   A1323     244.419 117.320  19.763  1.00 70.98      A16S
ATOM  27932  C4   G   A1323     245.246 118.305  20.244  1.00 70.98      A16S
ATOM  27933  N3   G   A1323     244.994 119.632  20.216  1.00 70.98      A16S
ATOM  27934  C2   G   A1323     245.974 120.331  20.749  1.00 70.98      A16S
ATOM  27935  N2   G   A1323     245.889 121.666  20.780  1.00 70.98      A16S
ATOM  27936  N1   G   A1323     247.107 119.774  21.282  1.00 70.98      A16S
ATOM  27937  C6   G   A1323     247.386 118.412  21.328  1.00 70.98      A16S
ATOM  27938  O6   G   A1323     248.437 118.016  21.840  1.00 70.98      A16S
ATOM  27939  C5   G   A1323     246.347 117.648  20.745  1.00 70.98      A16S
ATOM  27940  N7   G   A1323     246.221 116.275  20.579  1.00 70.98      A16S
ATOM  27941  C8   G   A1323     245.064 116.127  19.993  1.00 70.98      A16S
ATOM  27942  C2* G   A1323     243.170 118.274  17.800  1.00 58.55      A16S
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ATOM  27943  O2*  G   A1323     242.111 119.220  17.750  1.00 58.55       A16S
ATOM  27944  C3*  G   A1323     243.053 117.118  16.804  1.00 58.55       A16S
ATOM  27945  O3*  G   A1323     242.533 117.492  15.528  1.00 58.55       A16S
ATOM  27946  P    A   A1324     243.469 117.386  14.215  1.00 58.45       A16S
ATOM  27947  O1P  A   A1324     242.563 117.278  13.041  1.00 73.48       A16S
ATOM  27948  O2P  A   A1324     244.526 116.351  14.427  1.00 73.48       A16S
ATOM  27949  O5*  A   A1324     244.150 118.818  14.138  1.00 58.45       A16S
ATOM  27950  C5*  A   A1324     243.331 119.983  13.993  1.00 58.45       A16S
ATOM  27951  C4*  A   A1324     243.962 121.165  14.680  1.00 58.45       A16S
ATOM  27952  O4*  A   A1324     244.168 120.861  16.080  1.00 58.45       A16S
ATOM  27953  C1*  A   A1324     245.348 121.494  16.532  1.00 58.45       A16S
ATOM  27954  N9   A   A1324     246.283 120.456  16.957  1.00 73.48       A16S
ATOM  27955  C4   A   A1324     247.372 120.618  17.780  1.00 73.48       A16S
ATOM  27956  N3   A   A1324     247.807 121.755  18.348  1.00 73.48       A16S
ATOM  27957  C2   A   A1324     248.879 121.525  19.097  1.00 73.48       A16S
ATOM  27958  N1   A   A1324     249.518 120.375  19.327  1.00 73.48       A16S
ATOM  27959  C6   A   A1324     249.054 119.251  18.744  1.00 73.48       A16S
ATOM  27960  N6   A   A1324     249.683 118.099  18.984  1.00 73.48       A16S
ATOM  27961  C5   A   A1324     247.926 119.361  17.921  1.00 73.48       A16S
ATOM  27962  N7   A   A1324     247.212 118.426  17.189  1.00 73.48       A16S
ATOM  27963  C8   A   A1324     246.254 119.124  16.633  1.00 73.48       A16S
ATOM  27964  C2*  A   A1324     245.891 122.328  15.375  1.00 58.45       A16S
ATOM  27965  O2*  A   A1324     245.356 123.639  15.470  1.00 58.45       A16S
ATOM  27966  C3*  A   A1324     245.333 121.576  14.179  1.00 58.45       A16S
ATOM  27967  O3*  A   A1324     245.238 122.395  13.025  1.00 58.45       A16S
ATOM  27968  P    C   A1325     246.388 122.324  11.908  1.00 59.17       A16S
ATOM  27969  O1P  C   A1325     245.896 123.125  10.760  1.00 52.89       A16S
ATOM  27970  O2P  C   A1325     246.832 120.911  11.708  1.00 52.89       A16S
ATOM  27971  O5*  C   A1325     247.606 123.112  12.557  1.00 59.17       A16S
ATOM  27972  C5*  C   A1325     247.480 124.503  12.892  1.00 59.17       A16S
ATOM  27973  C4*  C   A1325     248.660 124.947  13.714  1.00 59.17       A16S
ATOM  27974  O4*  C   A1325     248.668 124.248  14.985  1.00 59.17       A16S
ATOM  27975  C1*  C   A1325     250.000 124.057  15.412  1.00 59.17       A16S
ATOM  27976  N1   C   A1325     250.252 122.624  15.590  1.00 52.89       A16S
ATOM  27977  C6   C   A1325     249.397 121.681  15.099  1.00 52.89       A16S
ATOM  27978  C2   C   A1325     251.408 122.238  16.271  1.00 52.89       A16S
ATOM  27979  O2   C   A1325     252.150 123.119  16.741  1.00 52.89       A16S
ATOM  27980  N3   C   A1325     251.695 120.922  16.407  1.00 52.89       A16S
ATOM  27981  C4   C   A1325     250.873 120.009  15.896  1.00 52.89       A16S
ATOM  27982  N4   C   A1325     251.223 118.721  16.012  1.00 52.89       A16S
ATOM  27983  C5   C   A1325     249.663 120.374  15.230  1.00 52.89       A16S
ATOM  27984  C2*  C   A1325     250.915 124.667  14.358  1.00 59.17       A16S
ATOM  27985  O2*  C   A1325     251.216 125.984  14.768  1.00 59.17       A16S
ATOM  27986  C3*  C   A1325     250.023 124.642  13.127  1.00 59.17       A16S
ATOM  27987  O3*  C   A1325     250.398 125.606  12.162  1.00 59.17       A16S
ATOM  27988  P    C   A1326     251.464 125.210  11.032  1.00 51.33       A16S
ATOM  27989  O1P  C   A1326     251.449 126.317  10.053  1.00 44.59       A16S
ATOM  27990  O2P  C   A1326     251.198 123.821  10.592  1.00 44.59       A16S
ATOM  27991  O5*  C   A1326     252.866 125.184  11.788  1.00 51.33       A16S
ATOM  27992  C5*  C   A1326     253.362 126.356  12.480  1.00 51.33       A16S
ATOM  27993  C4*  C   A1326     254.684 126.055  13.146  1.00 51.33       A16S
ATOM  27994  O4*  C   A1326     254.489 125.106  14.221  1.00 51.33       A16S
ATOM  27995  C1*  C   A1326     255.624 124.275  14.321  1.00 51.33       A16S
ATOM  27996  N1   C   A1326     255.200 122.872  14.294  1.00 44.59       A16S
ATOM  27997  C6   C   A1326     254.006 122.495  13.745  1.00 44.59       A16S
ATOM  27998  C2   C   A1326     256.053 121.914  14.849  1.00 44.59       A16S
ATOM  27999  O2   C   A1326     257.130 122.288  15.330  1.00 44.59       A16S
ATOM  28000  N3   C   A1326     255.688 120.606  14.850  1.00 44.59       A16S
ATOM  28001  C4   C   A1326     254.517 120.249  14.328  1.00 44.59       A16S
ATOM  28002  N4   C   A1326     254.182 118.962  14.378  1.00 44.59       A16S
ATOM  28003  C5   C   A1326     253.629 121.206  13.740  1.00 44.59       A16S
ATOM  28004  C2*  C   A1326     256.608 124.645  13.210  1.00 51.33       A16S
ATOM  28005  O2*  C   A1326     257.645 125.430  13.752  1.00 51.33       A16S
ATOM  28006  C3*  C   A1326     255.720 125.415  12.239  1.00 51.33       A16S
ATOM  28007  O3*  C   A1326     256.440 126.415  11.524  1.00 51.33       A16S
ATOM  28008  P    C   A1327     257.086 126.063  10.098  1.00 47.70       A16S
ATOM  28009  O1P  C   A1327     257.677 127.319   9.547  1.00 50.49       A16S
ATOM  28010  O2P  C   A1327     256.054 125.342   9.320  1.00 50.49       A16S
ATOM  28011  O5*  C   A1327     258.255 125.042  10.471  1.00 47.70       A16S
ATOM  28012  C5*  C   A1327     259.419 125.513  11.169  1.00 47.70       A16S
ATOM  28013  C4*  C   A1327     260.387 124.388  11.451  1.00 47.70       A16S
ATOM  28014  O4*  C   A1327     259.897 123.519  12.499  1.00 47.70       A16S
ATOM  28015  C1*  C   A1327     260.505 122.250  12.369  1.00 47.70       A16S
ATOM  28016  N1   C   A1327     259.476 121.208  12.385  1.00 50.49       A16S
ATOM  28017  C6   C   A1327     258.213 121.437  11.909  1.00 50.49       A16S
ATOM  28018  C2   C   A1327     259.825 119.948  12.886  1.00 50.49       A16S
ATOM  28019  O2   C   A1327     260.971 119.779  13.333  1.00 50.49       A16S
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ATOM  28020  N3   C   A1327     258.909 118.948  12.876  1.00 50.49      A16S
ATOM  28021  C4   C   A1327     257.685 119.174  12.399  1.00 50.49      A16S
ATOM  28022  N4   C   A1327     256.828 118.164  12.403  1.00 50.49      A16S
ATOM  28023  C5   C   A1327     257.293 120.453  11.894  1.00 50.49      A16S
ATOM  28024  C2*  C   A1327     261.289 122.232  11.061  1.00 47.70      A16S
ATOM  28025  O2*  C   A1327     262.664 122.354  11.353  1.00 47.70      A16S
ATOM  28026  C3*  C   A1327     260.698 123.429  10.324  1.00 47.70      A16S
ATOM  28027  O3*  C   A1327     261.602 123.972   9.388  1.00 47.70      A16S
ATOM  28028  P    C   A1328     261.630 123.378   7.901  1.00 52.32      A16S
ATOM  28029  O1P  C   A1328     262.548 124.234   7.113  1.00 65.85      A16S
ATOM  28030  O2P  C   A1328     260.222 123.216   7.453  1.00 65.85      A16S
ATOM  28031  O5*  C   A1328     262.297 121.940   8.094  1.00 52.32      A16S
ATOM  28032  C5*  C   A1328     263.636 121.839   8.586  1.00 52.32      A16S
ATOM  28033  C4*  C   A1328     264.102 120.404   8.623  1.00 52.32      A16S
ATOM  28034  O4*  C   A1328     263.543 119.696   9.759  1.00 52.32      A16S
ATOM  28035  C1*  C   A1328     263.453 118.313   9.450  1.00 52.32      A16S
ATOM  28036  N1   C   A1328     262.053 117.875   9.593  1.00 65.85      A16S
ATOM  28037  C6   C   A1328     261.025 118.777   9.567  1.00 65.85      A16S
ATOM  28038  C2   C   A1328     261.789 116.504   9.729  1.00 65.85      A16S
ATOM  28039  O2   C   A1328     262.740 115.715   9.770  1.00 65.85      A16S
ATOM  28040  N3   C   A1328     260.510 116.081   9.807  1.00 65.85      A16S
ATOM  28041  C4   C   A1328     259.512 116.968   9.753  1.00 65.85      A16S
ATOM  28042  N4   C   A1328     258.257 116.509   9.800  1.00 65.85      A16S
ATOM  28043  C5   C   A1328     259.752 118.372   9.640  1.00 65.85      A16S
ATOM  28044  C2*  C   A1328     263.941 118.116   8.011  1.00 52.32      A16S
ATOM  28045  O2*  C   A1328     265.262 117.620   8.023  1.00 52.32      A16S
ATOM  28046  C3*  C   A1328     263.795 119.523   7.428  1.00 52.32      A16S
ATOM  28047  O3*  C   A1328     264.688 119.752   6.348  1.00 52.32      A16S
ATOM  28048  P    A   A1329     264.239 119.369   4.855  1.00 69.44      A16S
ATOM  28049  O1P  A   A1329     265.395 119.650   3.958  1.00 58.08      A16S
ATOM  28050  O2P  A   A1329     262.936 120.037   4.588  1.00 58.08      A16S
ATOM  28051  O5*  A   A1329     264.037 117.787   4.938  1.00 69.44      A16S
ATOM  28052  C5*  A   A1329     265.176 116.923   5.112  1.00 69.44      A16S
ATOM  28053  C4*  A   A1329     264.756 115.472   5.217  1.00 69.44      A16S
ATOM  28054  O4*  A   A1329     263.987 115.270   6.433  1.00 69.44      A16S
ATOM  28055  C1*  A   A1329     263.030 114.241   6.223  1.00 69.44      A16S
ATOM  28056  N9   A   A1329     261.693 114.826   6.308  1.00 58.08      A16S
ATOM  28057  C4   A   A1329     260.525 114.119   6.445  1.00 58.08      A16S
ATOM  28058  N3   A   A1329     260.391 112.786   6.575  1.00 58.08      A16S
ATOM  28059  C2   A   A1329     259.110 112.453   6.632  1.00 58.08      A16S
ATOM  28060  N1   A   A1329     258.029 113.242   6.587  1.00 58.08      A16S
ATOM  28061  C6   A   A1329     258.204 114.578   6.467  1.00 58.08      A16S
ATOM  28062  N6   A   A1329     257.132 115.371   6.432  1.00 58.08      A16S
ATOM  28063  C5   A   A1329     259.511 115.056   6.386  1.00 58.08      A16S
ATOM  28064  N7   A   A1329     260.026 116.336   6.241  1.00 58.08      A16S
ATOM  28065  C8   A   A1329     261.322 116.148   6.213  1.00 58.08      A16S
ATOM  28066  C2*  A   A1329     263.224 113.707   4.804  1.00 69.44      A16S
ATOM  28067  O2*  A   A1329     264.021 112.541   4.796  1.00 69.44      A16S
ATOM  28068  C3*  A   A1329     263.869 114.901   4.118  1.00 69.44      A16S
ATOM  28069  O3*  A   A1329     264.528 114.536   2.912  1.00 69.44      A16S
ATOM  28070  P    U   A1330     263.723 114.666   1.529  1.00 71.68      A16S
ATOM  28071  O1P  U   A1330     264.579 114.325   0.360  1.00 57.14      A16S
ATOM  28072  O2P  U   A1330     263.043 115.988   1.557  1.00 57.14      A16S
ATOM  28073  O5*  U   A1330     262.586 113.562   1.683  1.00 71.68      A16S
ATOM  28074  C5*  U   A1330     262.894 112.229   2.125  1.00 71.68      A16S
ATOM  28075  C4*  U   A1330     261.627 111.408   2.232  1.00 71.68      A16S
ATOM  28076  O4*  U   A1330     260.773 111.950   3.270  1.00 71.68      A16S
ATOM  28077  C1*  U   A1330     259.411 111.836   2.884  1.00 71.68      A16S
ATOM  28078  N1   U   A1330     258.817 113.184   2.882  1.00 57.14      A16S
ATOM  28079  C6   U   A1330     259.497 114.266   2.389  1.00 57.14      A16S
ATOM  28080  C2   U   A1330     257.558 113.334   3.423  1.00 57.14      A16S
ATOM  28081  O2   U   A1330     256.895 112.404   3.820  1.00 57.14      A16S
ATOM  28082  N3   U   A1330     257.099 114.620   3.481  1.00 57.14      A16S
ATOM  28083  C4   U   A1330     257.746 115.749   3.053  1.00 57.14      A16S
ATOM  28084  O4   U   A1330     257.276 116.851   3.331  1.00 57.14      A16S
ATOM  28085  C5   U   A1330     259.017 115.509   2.453  1.00 57.14      A16S
ATOM  28086  C2*  U   A1330     259.366 111.114   1.541  1.00 71.68      A16S
ATOM  28087  O2*  U   A1330     259.163 109.738   1.777  1.00 71.68      A16S
ATOM  28088  C3*  U   A1330     260.754 111.412   0.992  1.00 71.68      A16S
ATOM  28089  O3*  U   A1330     261.187 110.456   0.054  1.00 71.68      A16S
ATOM  28090  P    G   A1331     261.342 110.891  -1.475  1.00 63.34      A16S
ATOM  28091  O1P  G   A1331     261.444 109.638  -2.263  1.00 70.85      A16S
ATOM  28092  O2P  G   A1331     262.392 111.923  -1.590  1.00 70.85      A16S
ATOM  28093  O5*  G   A1331     259.963 111.608  -1.797  1.00 63.34      A16S
ATOM  28094  C5*  G   A1331     258.739 110.867  -1.775  1.00 63.34      A16S
ATOM  28095  C4*  G   A1331     257.582 111.762  -2.117  1.00 63.34      A16S
ATOM  28096  O4*  G   A1331     257.471 112.778  -1.106  1.00 63.34      A16S
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ATOM  28097  C1* G   A1331     256.824 113.899  -1.652  1.00 63.34       A16S
ATOM  28098  N9  G   A1331     257.392 115.109  -1.070  1.00 70.85       A16S
ATOM  28099  C4  G   A1331     256.697 116.084  -0.381  1.00 70.85       A16S
ATOM  28100  N3  G   A1331     255.373 116.079  -0.110  1.00 70.85       A16S
ATOM  28101  C2  G   A1331     254.997 117.172   0.538  1.00 70.85       A16S
ATOM  28102  N2  G   A1331     253.713 117.338   0.899  1.00 70.85       A16S
ATOM  28103  N1  G   A1331     255.848 118.188   0.883  1.00 70.85       A16S
ATOM  28104  C6  G   A1331     257.209 118.217   0.608  1.00 70.85       A16S
ATOM  28105  O6  G   A1331     257.878 119.198   0.937  1.00 70.85       A16S
ATOM  28106  C5  G   A1331     257.631 117.043  -0.068  1.00 70.85       A16S
ATOM  28107  N7  G   A1331     258.890 116.666  -0.511  1.00 70.85       A16S
ATOM  28108  C8  G   A1331     258.700 115.514  -1.097  1.00 70.85       A16S
ATOM  28109  C2* G   A1331     256.772 113.750  -3.178  1.00 63.34       A16S
ATOM  28110  O2* G   A1331     255.420 113.525  -3.516  1.00 63.34       A16S
ATOM  28111  C3* G   A1331     257.678 112.538  -3.420  1.00 63.34       A16S
ATOM  28112  O3* G   A1331     257.359 111.604  -4.478  1.00 63.34       A16S
ATOM  28113  P   A   A1332     256.269 111.939  -5.625  1.00 48.54       A16S
ATOM  28114  O1P A   A1332     256.753 111.190  -6.823  1.00 46.25       A16S
ATOM  28115  O2P A   A1332     255.996 113.402  -5.747  1.00 46.25       A16S
ATOM  28116  O5* A   A1332     254.960 111.202  -5.085  1.00 48.54       A16S
ATOM  28117  C5* A   A1332     255.010 109.803  -4.692  1.00 48.54       A16S
ATOM  28118  C4* A   A1332     253.613 109.236  -4.548  1.00 48.54       A16S
ATOM  28119  O4* A   A1332     252.973 109.791  -3.380  1.00 48.54       A16S
ATOM  28120  C1* A   A1332     251.613 110.047  -3.654  1.00 48.54       A16S
ATOM  28121  N9  A   A1332     251.407 111.486  -3.530  1.00 46.25       A16S
ATOM  28122  C4  A   A1332     250.219 112.166  -3.601  1.00 46.25       A16S
ATOM  28123  N3  A   A1332     248.998 111.652  -3.806  1.00 46.25       A16S
ATOM  28124  C2  A   A1332     248.083 112.617  -3.811  1.00 46.25       A16S
ATOM  28125  N1  A   A1332     248.241 113.941  -3.647  1.00 46.25       A16S
ATOM  28126  C6  A   A1332     249.484 114.420  -3.443  1.00 46.25       A16S
ATOM  28127  N6  A   A1332     249.646 115.729  -3.274  1.00 46.25       A16S
ATOM  28128  C5  A   A1332     250.538 113.500  -3.420  1.00 46.25       A16S
ATOM  28129  N7  A   A1332     251.902 113.658  -3.243  1.00 46.25       A16S
ATOM  28130  C8  A   A1332     252.370 112.438  -3.318  1.00 46.25       A16S
ATOM  28131  C2* A   A1332     251.308 109.505  -5.050  1.00 48.54       A16S
ATOM  28132  O2* A   A1332     250.836 108.182  -4.935  1.00 48.54       A16S
ATOM  28133  C3* A   A1332     252.677 109.544  -5.701  1.00 48.54       A16S
ATOM  28134  O3* A   A1332     252.800 108.551  -6.695  1.00 48.54       A16S
ATOM  28135  P   A   A1333     252.542 108.929  -8.227  1.00 56.05       A16S
ATOM  28136  O1P A   A1333     252.781 107.663  -8.972  1.00 30.61       A16S
ATOM  28137  O2P A   A1333     253.328 110.149  -8.575  1.00 30.61       A16S
ATOM  28138  O5* A   A1333     250.991 109.302  -8.277  1.00 56.05       A16S
ATOM  28139  C5* A   A1333     249.981 108.273  -8.210  1.00 56.05       A16S
ATOM  28140  C4* A   A1333     248.594 108.879  -8.156  1.00 56.05       A16S
ATOM  28141  O4* A   A1333     248.466 109.695  -6.967  1.00 56.05       A16S
ATOM  28142  C1* A   A1333     247.612 110.788  -7.236  1.00 56.05       A16S
ATOM  28143  N9  A   A1333     248.352 112.024  -7.007  1.00 30.61       A16S
ATOM  28144  C4  A   A1333     247.821 113.285  -6.914  1.00 30.61       A16S
ATOM  28145  N3  A   A1333     246.532 113.637  -7.002  1.00 30.61       A16S
ATOM  28146  C2  A   A1333     246.394 114.944  -6.856  1.00 30.61       A16S
ATOM  28147  N1  A   A1333     247.326 115.868  -6.648  1.00 30.61       A16S
ATOM  28148  C6  A   A1333     248.610 115.475  -6.562  1.00 30.61       A16S
ATOM  28149  N6  A   A1333     249.548 116.392  -6.344  1.00 30.61       A16S
ATOM  28150  C5  A   A1333     248.887 114.123  -6.702  1.00 30.61       A16S
ATOM  28151  N7  A   A1333     250.070 113.412  -6.660  1.00 30.61       A16S
ATOM  28152  C8  A   A1333     249.699 112.174  -6.847  1.00 30.61       A16S
ATOM  28153  C2* A   A1333     247.126 110.666  -8.678  1.00 56.05       A16S
ATOM  28154  O2* A   A1333     245.878 110.016  -8.677  1.00 56.05       A16S
ATOM  28155  C3* A   A1333     248.201 109.796  -9.303  1.00 56.05       A16S
ATOM  28156  O3* A   A1333     247.642 109.057 -10.378  1.00 56.05       A16S
ATOM  28157  P   G   A1334     247.778 109.604 -11.885  1.00 43.99       A16S
ATOM  28158  O1P G   A1334     246.835 108.818 -12.733  1.00 39.22       A16S
ATOM  28159  O2P G   A1334     249.236 109.590 -12.207  1.00 39.22       A16S
ATOM  28160  O5* G   A1334     247.302 111.131 -11.827  1.00 43.99       A16S
ATOM  28161  C5* G   A1334     245.909 111.489 -11.723  1.00 43.99       A16S
ATOM  28162  C4* G   A1334     245.774 112.943 -11.340  1.00 43.99       A16S
ATOM  28163  O4* G   A1334     246.540 113.159 -10.132  1.00 43.99       A16S
ATOM  28164  C1* G   A1334     247.142 114.442 -10.163  1.00 43.99       A16S
ATOM  28165  N9  G   A1334     248.591 114.281 -10.066  1.00 39.22       A16S
ATOM  28166  C4  G   A1334     249.527 115.286  -9.999  1.00 39.22       A16S
ATOM  28167  N3  G   A1334     249.272 116.606  -9.960  1.00 39.22       A16S
ATOM  28168  C2  G   A1334     250.380 117.317  -9.926  1.00 39.22       A16S
ATOM  28169  N2  G   A1334     250.314 118.641  -9.850  1.00 39.22       A16S
ATOM  28170  N1  G   A1334     251.633 116.778  -9.956  1.00 39.22       A16S
ATOM  28171  C6  G   A1334     251.916 115.422 -10.007  1.00 39.22       A16S
ATOM  28172  O6  G   A1334     253.084 115.038 -10.055  1.00 39.22       A16S
ATOM  28173  C5  G   A1334     250.746 114.650 -10.010  1.00 39.22       A16S
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ATOM  28174  N7  G   A1334     250.585 113.275 -10.042  1.00 39.22      A16S
ATOM  28175  C8  G   A1334     249.293 113.103 -10.065  1.00 39.22      A16S
ATOM  28176  C2* G   A1334     246.708 115.131 -11.459  1.00 43.99      A16S
ATOM  28177  O2* G   A1334     245.622 115.989 -11.185  1.00 43.99      A16S
ATOM  28178  C3* G   A1334     246.331 113.945 -12.341  1.00 43.99      A16S
ATOM  28179  O3* G   A1334     245.352 114.313 -13.311  1.00 43.99      A16S
ATOM  28180  P   C   A1335     245.557 113.903 -14.847  1.00 58.15      A16S
ATOM  28181  O1P C   A1335     244.306 114.197 -15.568  1.00 45.94      A16S
ATOM  28182  O2P C   A1335     246.123 112.536 -14.882  1.00 45.94      A16S
ATOM  28183  O5* C   A1335     246.644 114.924 -15.382  1.00 58.15      A16S
ATOM  28184  C5* C   A1335     246.382 116.328 -15.361  1.00 58.15      A16S
ATOM  28185  C4* C   A1335     247.278 117.048 -16.338  1.00 58.15      A16S
ATOM  28186  O4* C   A1335     248.655 116.825 -15.993  1.00 58.15      A16S
ATOM  28187  C1* C   A1335     249.443 116.948 -17.153  1.00 58.15      A16S
ATOM  28188  N1  C   A1335     250.498 115.929 -17.101  1.00 45.94      A16S
ATOM  28189  C6  C   A1335     250.188 114.614 -16.914  1.00 45.94      A16S
ATOM  28190  C2  C   A1335     251.845 116.336 -17.200  1.00 45.94      A16S
ATOM  28191  O2  C   A1335     252.107 117.536 -17.424  1.00 45.94      A16S
ATOM  28192  N3  C   A1335     252.820 115.416 -17.051  1.00 45.94      A16S
ATOM  28193  C4  C   A1335     252.502 114.140 -16.825  1.00 45.94      A16S
ATOM  28194  N4  C   A1335     253.497 113.269 -16.640  1.00 45.94      A16S
ATOM  28195  C5  C   A1335     251.147 113.697 -16.768  1.00 45.94      A16S
ATOM  28196  C2* C   A1335     248.529 117.005 -18.384  1.00 58.15      A16S
ATOM  28197  O2* C   A1335     248.585 118.316 -18.924  1.00 58.15      A16S
ATOM  28198  C3* C   A1335     247.155 116.653 -17.801  1.00 58.15      A16S
ATOM  28199  O3* C   A1335     246.160 117.523 -18.329  1.00 58.15      A16S
ATOM  28200  P   C   A1336     245.366 117.148 -19.665  1.00 39.63      A16S
ATOM  28201  O1P C   A1336     245.448 115.667 -19.849  1.00 72.30      A16S
ATOM  28202  O2P C   A1336     245.840 118.055 -20.746  1.00 72.30      A16S
ATOM  28203  O5* C   A1336     243.872 117.561 -19.296  1.00 39.63      A16S
ATOM  28204  C5* C   A1336     243.085 116.740 -18.406  1.00 39.63      A16S
ATOM  28205  C4* C   A1336     241.994 117.550 -17.731  1.00 39.63      A16S
ATOM  28206  O4* C   A1336     242.542 118.341 -16.651  1.00 39.63      A16S
ATOM  28207  C1* C   A1336     242.146 119.685 -16.797  1.00 39.63      A16S
ATOM  28208  N1  C   A1336     243.239 120.550 -16.309  1.00 72.30      A16S
ATOM  28209  C6  C   A1336     244.539 120.150 -16.423  1.00 72.30      A16S
ATOM  28210  C2  C   A1336     242.931 121.787 -15.712  1.00 72.30      A16S
ATOM  28211  O2  C   A1336     241.746 122.147 -15.625  1.00 72.30      A16S
ATOM  28212  N3  C   A1336     243.937 122.559 -15.247  1.00 72.30      A16S
ATOM  28213  C4  C   A1336     245.201 122.146 -15.360  1.00 72.30      A16S
ATOM  28214  N4  C   A1336     246.168 122.935 -14.885  1.00 72.30      A16S
ATOM  28215  C5  C   A1336     245.536 120.906 -15.965  1.00 72.30      A16S
ATOM  28216  C2* C   A1336     241.785 119.857 -18.270  1.00 39.63      A16S
ATOM  28217  O2* C   A1336     240.867 120.914 -18.425  1.00 39.63      A16S
ATOM  28218  C3* C   A1336     241.182 118.496 -18.602  1.00 39.63      A16S
ATOM  28219  O3* C   A1336     239.825 118.443 -18.163  1.00 39.63      A16S
ATOM  28220  P   G   A1337     238.623 118.395 -19.237  1.00 40.80      A16S
ATOM  28221  O1P G   A1337     239.181 118.414 -20.618  1.00 47.66      A16S
ATOM  28222  O2P G   A1337     237.632 119.433 -18.846  1.00 47.66      A16S
ATOM  28223  O5* G   A1337     237.953 116.979 -18.972  1.00 40.80      A16S
ATOM  28224  C5* G   A1337     238.502 115.779 -19.535  1.00 40.80      A16S
ATOM  28225  C4* G   A1337     238.306 114.637 -18.577  1.00 40.80      A16S
ATOM  28226  O4* G   A1337     239.182 114.850 -17.454  1.00 40.80      A16S
ATOM  28227  C1* G   A1337     238.469 114.725 -16.251  1.00 40.80      A16S
ATOM  28228  N9  G   A1337     238.541 116.039 -15.614  1.00 47.66      A16S
ATOM  28229  C4  G   A1337     239.643 116.557 -14.969  1.00 47.66      A16S
ATOM  28230  N3  G   A1337     240.813 115.920 -14.760  1.00 47.66      A16S
ATOM  28231  C2  G   A1337     241.686 116.688 -14.138  1.00 47.66      A16S
ATOM  28232  N2  G   A1337     242.903 116.213 -13.840  1.00 47.66      A16S
ATOM  28233  N1  G   A1337     241.434 117.973 -13.759  1.00 47.66      A16S
ATOM  28234  C6  G   A1337     240.242 118.645 -13.966  1.00 47.66      A16S
ATOM  28235  O6  G   A1337     240.125 119.808 -13.593  1.00 47.66      A16S
ATOM  28236  C5  G   A1337     239.294 117.837 -14.621  1.00 47.66      A16S
ATOM  28237  N7  G   A1337     237.992 118.116 -15.005  1.00 47.66      A16S
ATOM  28238  C8  G   A1337     237.583 117.019 -15.582  1.00 47.66      A16S
ATOM  28239  C2* G   A1337     237.093 114.130 -16.590  1.00 40.80      A16S
ATOM  28240  O2* G   A1337     237.176 112.726 -16.517  1.00 40.80      A16S
ATOM  28241  C3* G   A1337     236.892 114.580 -18.032  1.00 40.80      A16S
ATOM  28242  O3* G   A1337     236.154 113.617 -18.787  1.00 40.80      A16S
ATOM  28243  P   G   A1338     235.303 114.070 -20.085  1.00 35.22      A16S
ATOM  28244  O1P G   A1338     234.372 115.156 -19.691  1.00 65.81      A16S
ATOM  28245  O2P G   A1338     236.219 114.279 -21.241  1.00 65.81      A16S
ATOM  28246  O5* G   A1338     234.426 112.777 -20.391  1.00 35.22      A16S
ATOM  28247  C5* G   A1338     234.969 111.693 -21.175  1.00 35.22      A16S
ATOM  28248  C4* G   A1338     234.068 110.475 -21.123  1.00 35.22      A16S
ATOM  28249  O4* G   A1338     234.328 109.676 -19.945  1.00 35.22      A16S
ATOM  28250  C1* G   A1338     233.136 109.051 -19.529  1.00 35.22      A16S
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ATOM  28251  N9  G   A1338     232.910 109.396 -18.130  1.00 65.81      A16S
ATOM  28252  C4  G   A1338     232.229 108.642 -17.207  1.00 65.81      A16S
ATOM  28253  N3  G   A1338     231.607 107.470 -17.446  1.00 65.81      A16S
ATOM  28254  C2  G   A1338     231.064 106.968 -16.353  1.00 65.81      A16S
ATOM  28255  N2  G   A1338     230.398 105.815 -16.408  1.00 65.81      A16S
ATOM  28256  N1  G   A1338     231.132 107.558 -15.123  1.00 65.81      A16S
ATOM  28257  C6  G   A1338     231.773 108.756 -14.845  1.00 65.81      A16S
ATOM  28258  O6  G   A1338     231.795 109.183 -13.683  1.00 65.81      A16S
ATOM  28259  C5  G   A1338     232.348 109.324 -16.017  1.00 65.81      A16S
ATOM  28260  N7  G   A1338     233.058 110.503 -16.195  1.00 65.81      A16S
ATOM  28261  C8  G   A1338     233.364 110.507 -17.462  1.00 65.81      A16S
ATOM  28262  C2* G   A1338     232.021 109.455 -20.498  1.00 35.22      A16S
ATOM  28263  O2* G   A1338     231.876 108.428 -21.457  1.00 35.22      A16S
ATOM  28264  C3* G   A1338     232.579 110.737 -21.105  1.00 35.22      A16S
ATOM  28265  O3* G   A1338     232.111 110.986 -22.418  1.00 35.22      A16S
ATOM  28266  P   A   A1339     230.992 112.108 -22.648  1.00 29.75      A16S
ATOM  28267  O1P A   A1339     230.915 112.376 -24.107  1.00 51.03      A16S
ATOM  28268  O2P A   A1339     231.241 113.235 -21.715  1.00 51.03      A16S
ATOM  28269  O5* A   A1339     229.659 111.371 -22.180  1.00 29.75      A16S
ATOM  28270  C5* A   A1339     229.146 110.249 -22.920  1.00 29.75      A16S
ATOM  28271  C4* A   A1339     228.143 109.489 -22.098  1.00 29.75      A16S
ATOM  28272  O4* A   A1339     228.818 108.923 -20.953  1.00 29.75      A16S
ATOM  28273  C1* A   A1339     227.942 108.912 -19.845  1.00 29.75      A16S
ATOM  28274  N9  A   A1339     228.553 109.690 -18.771  1.00 51.03      A16S
ATOM  28275  C4  A   A1339     228.443 109.457 -17.424  1.00 51.03      A16S
ATOM  28276  N3  A   A1339     227.791 108.456 -16.821  1.00 51.03      A16S
ATOM  28277  C2  A   A1339     227.895 108.556 -15.507  1.00 51.03      A16S
ATOM  28278  N1  A   A1339     228.520 109.474 -14.782  1.00 51.03      A16S
ATOM  28279  C6  A   A1339     229.159 110.471 -15.420  1.00 51.03      A16S
ATOM  28280  N6  A   A1339     229.772 111.407 -14.693  1.00 51.03      A16S
ATOM  28281  C5  A   A1339     229.137 110.471 -16.811  1.00 51.03      A16S
ATOM  28282  N7  A   A1339     229.696 111.320 -17.749  1.00 51.03      A16S
ATOM  28283  C8  A   A1339     229.325 110.811 -18.894  1.00 51.03      A16S
ATOM  28284  C2* A   A1339     226.604 109.515 -20.290  1.00 29.75      A16S
ATOM  28285  O2* A   A1339     225.653 108.501 -20.545  1.00 29.75      A16S
ATOM  28286  C3* A   A1339     227.010 110.317 -21.520  1.00 29.75      A16S
ATOM  28287  O3* A   A1339     225.933 110.480 -22.434  1.00 29.75      A16S
ATOM  28288  P   A   A1340     225.377 111.957 -22.756  1.00 39.10      A16S
ATOM  28289  O1P A   A1340     224.228 111.806 -23.679  1.00 62.93      A16S
ATOM  28290  O2P A   A1340     226.530 112.814 -23.159  1.00 62.93      A16S
ATOM  28291  O5* A   A1340     224.833 112.491 -21.351  1.00 39.10      A16S
ATOM  28292  C5* A   A1340     223.861 111.730 -20.605  1.00 39.10      A16S
ATOM  28293  C4* A   A1340     223.995 111.964 -19.104  1.00 39.10      A16S
ATOM  28294  O4* A   A1340     225.331 111.615 -18.654  1.00 39.10      A16S
ATOM  28295  C1* A   A1340     225.674 112.410 -17.531  1.00 39.10      A16S
ATOM  28296  N9  A   A1340     226.792 113.289 -17.892  1.00 62.93      A16S
ATOM  28297  C4  A   A1340     227.584 114.001 -17.019  1.00 62.93      A16S
ATOM  28298  N3  A   A1340     227.533 113.991 -15.679  1.00 62.93      A16S
ATOM  28299  C2  A   A1340     228.432 114.819 -15.175  1.00 62.93      A16S
ATOM  28300  N1  A   A1340     229.310 115.601 -15.807  1.00 62.93      A16S
ATOM  28301  C6  A   A1340     229.335 115.588 -17.150  1.00 62.93      A16S
ATOM  28302  N6  A   A1340     230.212 116.368 -17.778  1.00 62.93      A16S
ATOM  28303  C5  A   A1340     228.433 114.748 -17.806  1.00 62.93      A16S
ATOM  28304  N7  A   A1340     228.207 114.497 -19.149  1.00 62.93      A16S
ATOM  28305  C8  A   A1340     227.235 113.620 -19.147  1.00 62.93      A16S
ATOM  28306  C2* A   A1340     224.454 113.268 -17.189  1.00 39.10      A16S
ATOM  28307  O2* A   A1340     223.677 112.611 -16.209  1.00 39.10      A16S
ATOM  28308  C3* A   A1340     223.747 113.357 -18.533  1.00 39.10      A16S
ATOM  28309  O3* A   A1340     222.369 113.636 -18.320  1.00 39.10      A16S
ATOM  28310  P   U   A1341     221.868 115.159 -18.215  1.00 55.30      A16S
ATOM  28311  O1P U   A1341     220.424 115.130 -17.900  1.00 50.34      A16S
ATOM  28312  O2P U   A1341     222.344 115.919 -19.397  1.00 50.34      A16S
ATOM  28313  O5* U   A1341     222.640 115.739 -16.949  1.00 55.30      A16S
ATOM  28314  C5* U   A1341     222.292 115.348 -15.601  1.00 55.30      A16S
ATOM  28315  C4* U   A1341     223.085 116.164 -14.593  1.00 55.30      A16S
ATOM  28316  O4* U   A1341     224.504 115.954 -14.817  1.00 55.30      A16S
ATOM  28317  C1* U   A1341     225.209 117.166 -14.598  1.00 55.30      A16S
ATOM  28318  N1  U   A1341     225.888 117.548 -15.847  1.00 50.34      A16S
ATOM  28319  C6  U   A1341     225.391 117.155 -17.062  1.00 50.34      A16S
ATOM  28320  C2  U   A1341     227.038 118.316 -15.766  1.00 50.34      A16S
ATOM  28321  O2  U   A1341     227.531 118.680 -14.714  1.00 50.34      A16S
ATOM  28322  N3  U   A1341     227.592 118.639 -16.973  1.00 50.34      A16S
ATOM  28323  C4  U   A1341     227.133 118.279 -18.217  1.00 50.34      A16S
ATOM  28324  O4  U   A1341     227.729 118.664 -19.215  1.00 50.34      A16S
ATOM  28325  C5  U   A1341     225.960 117.484 -18.214  1.00 50.34      A16S
ATOM  28326  C2* U   A1341     224.204 118.216 -14.125  1.00 55.30      A16S
ATOM  28327  O2* U   A1341     224.195 118.265 -12.714  1.00 55.30      A16S
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ATOM  28328  C3* U   A1341     222.897 117.671 -14.673  1.00 55.30      A16S
ATOM  28329  O3* U   A1341     221.811 118.111 -13.874  1.00 55.30      A16S
ATOM  28330  P   C   A1342     221.324 119.635 -13.982  1.00 42.29      A16S
ATOM  28331  O1P C   A1342     219.949 119.734 -13.432  1.00 52.81      A16S
ATOM  28332  O2P C   A1342     221.590 120.092 -15.365  1.00 52.81      A16S
ATOM  28333  O5* C   A1342     222.316 120.439 -13.030  1.00 42.29      A16S
ATOM  28334  C5* C   A1342     222.298 120.268 -11.599  1.00 42.29      A16S
ATOM  28335  C4* C   A1342     223.216 121.273 -10.948  1.00 42.29      A16S
ATOM  28336  O4* C   A1342     224.576 121.036 -11.401  1.00 42.29      A16S
ATOM  28337  C1* C   A1342     225.268 122.272 -11.508  1.00 42.29      A16S
ATOM  28338  N1  C   A1342     225.725 122.484 -12.896  1.00 52.81      A16S
ATOM  28339  C6  C   A1342     225.161 121.827 -13.953  1.00 52.81      A16S
ATOM  28340  C2  C   A1342     226.732 123.413 -13.113  1.00 52.81      A16S
ATOM  28341  O2  C   A1342     227.260 123.951 -12.138  1.00 52.81      A16S
ATOM  28342  N3  C   A1342     227.109 123.708 -14.371  1.00 52.81      A16S
ATOM  28343  C4  C   A1342     226.522 123.106 -15.397  1.00 52.81      A16S
ATOM  28344  N4  C   A1342     226.883 123.481 -16.623  1.00 52.81      A16S
ATOM  28345  C5  C   A1342     225.526 122.107 -15.212  1.00 52.81      A16S
ATOM  28346  C2* C   A1342     224.308 123.386 -11.091  1.00 42.29      A16S
ATOM  28347  O2* C   A1342     224.583 123.775  -9.760  1.00 42.29      A16S
ATOM  28348  C3* C   A1342     222.951 122.726 -11.309  1.00 42.29      A16S
ATOM  28349  O3* C   A1342     221.924 123.316 -10.526  1.00 42.29      A16S
ATOM  28350  P   G   A1343     221.215 124.665 -11.038  1.00 34.10      A16S
ATOM  28351  O1P G   A1343     219.982 124.896 -10.250  1.00 57.93      A16S
ATOM  28352  O2P G   A1343     221.134 124.610 -12.518  1.00 57.93      A16S
ATOM  28353  O5* G   A1343     222.264 125.798 -10.662  1.00 34.10      A16S
ATOM  28354  C5* G   A1343     222.768 125.931  -9.317  1.00 34.10      A16S
ATOM  28355  C4* G   A1343     223.800 127.031  -9.259  1.00 34.10      A16S
ATOM  28356  O4* G   A1343     224.991 126.601  -9.968  1.00 34.10      A16S
ATOM  28357  C1* G   A1343     225.556 127.704 -10.662  1.00 34.10      A16S
ATOM  28358  N9  G   A1343     225.584 127.393 -12.085  1.00 57.93      A16S
ATOM  28359  C4  G   A1343     226.428 127.945 -13.014  1.00 57.93      A16S
ATOM  28360  N3  G   A1343     227.396 128.851 -12.766  1.00 57.93      A16S
ATOM  28361  C2  G   A1343     228.031 129.208 -13.868  1.00 57.93      A16S
ATOM  28362  N2  G   A1343     229.022 130.103 -13.803  1.00 57.93      A16S
ATOM  28363  N1  G   A1343     227.741 128.714 -15.112  1.00 57.93      A16S
ATOM  28364  C6  G   A1343     226.751 127.782 -15.389  1.00 57.93      A16S
ATOM  28365  O6  G   A1343     226.570 127.406 -16.551  1.00 57.93      A16S
ATOM  28366  C5  G   A1343     226.061 127.389 -14.215  1.00 57.93      A16S
ATOM  28367  N7  G   A1343     225.015 126.493 -14.043  1.00 57.93      A16S
ATOM  28368  C8  G   A1343     224.771 126.525 -12.764  1.00 57.93      A16S
ATOM  28369  C2* G   A1343     224.699 128.941 -10.380  1.00 34.10      A16S
ATOM  28370  O2* G   A1343     225.277 129.769  -9.390  1.00 34.10      A16S
ATOM  28371  C3* G   A1343     223.381 128.309  -9.965  1.00 34.10      A16S
ATOM  28372  O3* G   A1343     222.597 129.165  -9.168  1.00 34.10      A16S
ATOM  28373  P   C   A1344     221.389 129.957  -9.854  1.00 35.04      A16S
ATOM  28374  O1P C   A1344     220.459 130.353  -8.769  1.00 57.37      A16S
ATOM  28375  O2P C   A1344     220.900 129.119 -10.985  1.00 57.37      A16S
ATOM  28376  O5* C   A1344     222.058 131.268 -10.472  1.00 35.04      A16S
ATOM  28377  C5* C   A1344     222.595 132.305  -9.605  1.00 35.04      A16S
ATOM  28378  C4* C   A1344     223.587 133.177 -10.347  1.00 35.04      A16S
ATOM  28379  O4* C   A1344     224.640 132.339 -10.885  1.00 35.04      A16S
ATOM  28380  C1* C   A1344     225.051 132.841 -12.146  1.00 35.04      A16S
ATOM  28381  N1  C   A1344     224.816 131.813 -13.178  1.00 57.37      A16S
ATOM  28382  C6  C   A1344     223.977 130.757 -12.950  1.00 57.37      A16S
ATOM  28383  C2  C   A1344     225.458 131.949 -14.418  1.00 57.37      A16S
ATOM  28384  O2  C   A1344     226.237 132.898 -14.597  1.00 57.37      A16S
ATOM  28385  N3  C   A1344     225.212 131.049 -15.387  1.00 57.37      A16S
ATOM  28386  C4  C   A1344     224.371 130.044 -15.163  1.00 57.37      A16S
ATOM  28387  N4  C   A1344     224.132 129.207 -16.166  1.00 57.37      A16S
ATOM  28388  C5  C   A1344     223.730 129.860 -13.904  1.00 57.37      A16S
ATOM  28389  C2* C   A1344     224.256 134.115 -12.435  1.00 35.04      A16S
ATOM  28390  O2* C   A1344     225.046 135.243 -12.142  1.00 35.04      A16S
ATOM  28391  C3* C   A1344     223.035 133.935 -11.543  1.00 35.04      A16S
ATOM  28392  O3* C   A1344     222.488 135.178 -11.158  1.00 35.04      A16S
ATOM  28393  P   U   A1345     221.482 135.942 -12.145  1.00 34.65      A16S
ATOM  28394  O1P U   A1345     221.071 137.188 -11.480  1.00 56.29      A16S
ATOM  28395  O2P U   A1345     220.447 135.004 -12.617  1.00 56.29      A16S
ATOM  28396  O5* U   A1345     222.384 136.356 -13.377  1.00 34.65      A16S
ATOM  28397  C5* U   A1345     223.283 137.440 -13.266  1.00 34.65      A16S
ATOM  28398  C4* U   A1345     222.900 138.502 -14.242  1.00 34.65      A16S
ATOM  28399  O4* U   A1345     223.121 137.991 -15.581  1.00 34.65      A16S
ATOM  28400  C1* U   A1345     221.952 138.155 -16.337  1.00 34.65      A16S
ATOM  28401  N1  U   A1345     221.901 137.108 -17.368  1.00 56.29      A16S
ATOM  28402  C6  U   A1345     221.092 136.007 -17.255  1.00 56.29      A16S
ATOM  28403  C2  U   A1345     222.689 137.292 -18.479  1.00 56.29      A16S
ATOM  28404  O2  U   A1345     223.446 138.235 -18.602  1.00 56.29      A16S
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ATOM  28405  N3  U   A1345     222.559 136.333 -19.446  1.00 56.29      A16S
ATOM  28406  C4  U   A1345     221.746 135.230 -19.409  1.00 56.29      A16S
ATOM  28407  O4  U   A1345     221.634 134.537 -20.415  1.00 56.29      A16S
ATOM  28408  C5  U   A1345     220.990 135.091 -18.211  1.00 56.29      A16S
ATOM  28409  C2* U   A1345     220.804 138.201 -15.331  1.00 34.65      A16S
ATOM  28410  O2* U   A1345     219.704 138.878 -15.917  1.00 34.65      A16S
ATOM  28411  C3* U   A1345     221.448 138.960 -14.173  1.00 34.65      A16S
ATOM  28412  O3* U   A1345     221.383 140.357 -14.469  1.00 34.65      A16S
ATOM  28413  P   A   A1346     221.444 141.438 -13.283  1.00 55.72      A16S
ATOM  28414  O1P A   A1346     220.755 140.875 -12.095  1.00 48.29      A16S
ATOM  28415  O2P A   A1346     220.977 142.723 -13.861  1.00 48.29      A16S
ATOM  28416  O5* A   A1346     223.010 141.558 -12.995  1.00 55.72      A16S
ATOM  28417  C5* A   A1346     223.526 141.770 -11.666  1.00 55.72      A16S
ATOM  28418  C4* A   A1346     224.577 142.859 -11.679  1.00 55.72      A16S
ATOM  28419  O4* A   A1346     225.804 142.379 -12.298  1.00 55.72      A16S
ATOM  28420  C1* A   A1346     226.270 143.342 -13.234  1.00 55.72      A16S
ATOM  28421  N9  A   A1346     226.921 142.650 -14.344  1.00 48.29      A16S
ATOM  28422  C4  A   A1346     228.019 143.099 -15.030  1.00 48.29      A16S
ATOM  28423  N3  A   A1346     228.699 144.230 -14.816  1.00 48.29      A16S
ATOM  28424  C2  A   A1346     229.710 144.338 -15.678  1.00 48.29      A16S
ATOM  28425  N1  A   A1346     230.085 143.508 -16.655  1.00 48.29      A16S
ATOM  28426  C6  A   A1346     229.378 142.379 -16.842  1.00 48.29      A16S
ATOM  28427  N6  A   A1346     229.752 141.556 -17.821  1.00 48.29      A16S
ATOM  28428  C5  A   A1346     228.284 142.144 -15.990  1.00 48.29      A16S
ATOM  28429  N7  A   A1346     227.371 141.107 -15.910  1.00 48.29      A16S
ATOM  28430  C8  A   A1346     226.585 141.456 -14.922  1.00 48.29      A16S
ATOM  28431  C2* A   A1346     225.050 144.143 -13.688  1.00 55.72      A16S
ATOM  28432  O2* A   A1346     225.375 145.418 -14.207  1.00 55.72      A16S
ATOM  28433  C3* A   A1346     224.189 144.134 -12.429  1.00 55.72      A16S
ATOM  28434  O3* A   A1346     223.757 145.312 -11.691  1.00 55.72      A16S
ATOM  28435  P   G   A1347     224.790 146.204 -10.824  1.00 47.14      A16S
ATOM  28436  O1P G   A1347     224.055 147.481 -10.665  1.00 58.58      A16S
ATOM  28437  O2P G   A1347     226.152 146.213 -11.421  1.00 58.58      A16S
ATOM  28438  O5* G   A1347     224.832 145.452  -9.410  1.00 47.14      A16S
ATOM  28439  C5* G   A1347     225.896 145.669  -8.421  1.00 47.14      A16S
ATOM  28440  C4* G   A1347     227.092 144.797  -8.741  1.00 47.14      A16S
ATOM  28441  O4* G   A1347     227.938 145.546  -9.643  1.00 47.14      A16S
ATOM  28442  C1* G   A1347     229.224 144.976  -9.621  1.00 47.14      A16S
ATOM  28443  N9  G   A1347     230.241 146.011  -9.732  1.00 58.58      A16S
ATOM  28444  C4  G   A1347     231.215 146.063 -10.692  1.00 58.58      A16S
ATOM  28445  N3  G   A1347     231.422 145.144 -11.654  1.00 58.58      A16S
ATOM  28446  C2  G   A1347     232.390 145.499 -12.476  1.00 58.58      A16S
ATOM  28447  N2  G   A1347     232.727 144.706 -13.510  1.00 58.58      A16S
ATOM  28448  N1  G   A1347     233.098 146.659 -12.355  1.00 58.58      A16S
ATOM  28449  C6  G   A1347     232.900 147.617 -11.372  1.00 58.58      A16S
ATOM  28450  O6  G   A1347     233.576 148.650 -11.379  1.00 58.58      A16S
ATOM  28451  C5  G   A1347     231.874 147.243 -10.480  1.00 58.58      A16S
ATOM  28452  N7  G   A1347     231.364 147.898  -9.373  1.00 58.58      A16S
ATOM  28453  C8  G   A1347     230.401 147.123  -8.956  1.00 58.58      A16S
ATOM  28454  C2* G   A1347     229.324 144.032  -8.428  1.00 47.14      A16S
ATOM  28455  O2* G   A1347     229.233 142.723  -8.953  1.00 47.14      A16S
ATOM  28456  C3* G   A1347     228.065 144.357  -7.638  1.00 47.14      A16S
ATOM  28457  O3* G   A1347     227.564 143.194  -6.937  1.00 47.14      A16S
ATOM  28458  P   U   A1348     228.505 141.881  -6.655  1.00 36.43      A16S
ATOM  28459  O1P U   A1348     228.157 141.383  -5.293  1.00 48.65      A16S
ATOM  28460  O2P U   A1348     229.927 142.067  -6.988  1.00 48.65      A16S
ATOM  28461  O5* U   A1348     227.917 140.802  -7.669  1.00 36.43      A16S
ATOM  28462  C5* U   A1348     226.537 140.369  -7.544  1.00 36.43      A16S
ATOM  28463  C4* U   A1348     226.158 139.456  -8.678  1.00 36.43      A16S
ATOM  28464  O4* U   A1348     226.096 140.193  -9.921  1.00 36.43      A16S
ATOM  28465  C1* U   A1348     226.578 139.381 -10.969  1.00 36.43      A16S
ATOM  28466  N1  U   A1348     227.648 140.107 -11.669  1.00 48.65      A16S
ATOM  28467  C6  U   A1348     228.226 141.215 -11.120  1.00 48.65      A16S
ATOM  28468  C2  U   A1348     228.055 139.634 -12.896  1.00 48.65      A16S
ATOM  28469  O2  U   A1348     227.568 138.660 -13.428  1.00 48.65      A16S
ATOM  28470  N3  U   A1348     229.064 140.346 -13.482  1.00 48.65      A16S
ATOM  28471  C4  U   A1348     229.698 141.453 -12.978  1.00 48.65      A16S
ATOM  28472  O4  U   A1348     230.623 141.967 -13.612  1.00 48.65      A16S
ATOM  28473  C5  U   A1348     229.210 141.883 -11.714  1.00 48.65      A16S
ATOM  28474  C2* U   A1348     226.990 138.021 -10.379  1.00 36.43      A16S
ATOM  28475  O2* U   A1348     225.959 137.090 -10.571  1.00 36.43      A16S
ATOM  28476  C3* U   A1348     227.138 138.326  -8.902  1.00 36.43      A16S
ATOM  28477  O3* U   A1348     226.670 137.232  -8.147  1.00 36.43      A16S
ATOM  28478  P   A   A1349     227.708 136.243  -7.454  1.00 39.66      A16S
ATOM  28479  O1P A   A1349     226.946 135.220  -6.698  1.00 59.03      A16S
ATOM  28480  O2P A   A1349     228.701 137.080  -6.745  1.00 59.03      A16S
ATOM  28481  O5* A   A1349     228.394 135.508  -8.687  1.00 39.66      A16S
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ATOM  28482  C5* A   A1349      227.742 134.377  -9.303  1.00 39.66       A16S
ATOM  28483  C4* A   A1349      228.466 133.946 -10.558  1.00 39.66       A16S
ATOM  28484  O4* A   A1349      228.470 135.022 -11.521  1.00 39.66       A16S
ATOM  28485  C1* A   A1349      229.657 134.964 -12.280  1.00 39.66       A16S
ATOM  28486  N9  A   A1349      230.341 136.253 -12.174  1.00 59.03       A16S
ATOM  28487  C4  A   A1349      231.586 136.537 -12.686  1.00 59.03       A16S
ATOM  28488  N3  A   A1349      232.392 135.709 -13.371  1.00 59.03       A16S
ATOM  28489  C2  A   A1349      233.514 136.323 -13.697  1.00 59.03       A16S
ATOM  28490  N1  A   A1349      233.902 137.567 -13.433  1.00 59.03       A16S
ATOM  28491  C6  A   A1349      233.076 138.366 -12.737  1.00 59.03       A16S
ATOM  28492  N6  A   A1349      233.477 139.599 -12.453  1.00 59.03       A16S
ATOM  28493  C5  A   A1349      231.844 137.846 -12.343  1.00 59.03       A16S
ATOM  28494  N7  A   A1349      230.774 138.394 -11.645  1.00 59.03       A16S
ATOM  28495  C8  A   A1349      229.913 137.410 -11.568  1.00 59.03       A16S
ATOM  28496  C2* A   A1349      230.487 133.777 -11.781  1.00 39.66       A16S
ATOM  28497  O2* A   A1349      230.263 132.683 -12.635  1.00 39.66       A16S
ATOM  28498  C3* A   A1349      229.915 133.544 -10.393  1.00 39.66       A16S
ATOM  28499  O3* A   A1349      229.971 132.173 -10.069  1.00 39.66       A16S
ATOM  28500  P   A   A1350      231.065 131.648  -9.029  1.00 35.82       A16S
ATOM  28501  O1P A   A1350      230.964 130.167  -8.963  1.00 58.44       A16S
ATOM  28502  O2P A   A1350      230.932 132.445  -7.797  1.00 58.44       A16S
ATOM  28503  O5* A   A1350      232.454 132.025  -9.703  1.00 35.82       A16S
ATOM  28504  C5* A   A1350      232.910 131.366 -10.898  1.00 35.82       A16S
ATOM  28505  C4* A   A1350      234.143 132.060 -11.443  1.00 35.82       A16S
ATOM  28506  O4* A   A1350      233.788 133.367 -11.971  1.00 35.82       A16S
ATOM  28507  C1* A   A1350      234.802 134.303 -11.644  1.00 35.82       A16S
ATOM  28508  N9  A   A1350      234.225 135.275 -10.709  1.00 58.44       A16S
ATOM  28509  C4  A   A1350      234.828 136.387 -10.172  1.00 58.44       A16S
ATOM  28510  N3  A   A1350      236.080 136.819 -10.378  1.00 58.44       A16S
ATOM  28511  C2  A   A1350      236.307 137.936  -9.701  1.00 58.44       A16S
ATOM  28512  N1  A   A1350      235.494 138.619  -8.900  1.00 58.44       A16S
ATOM  28513  C6  A   A1350      234.244 138.156  -8.706  1.00 58.44       A16S
ATOM  28514  N6  A   A1350      233.426 138.837  -7.898  1.00 58.44       A16S
ATOM  28515  C5  A   A1350      233.876 136.980  -9.369  1.00 58.44       A16S
ATOM  28516  N7  A   A1350      232.698 136.252  -9.385  1.00 58.44       A16S
ATOM  28517  C8  A   A1350      232.956 135.256 -10.188  1.00 58.44       A16S
ATOM  28518  C2* A   A1350      235.970 133.512 -11.052  1.00 35.82       A16S
ATOM  28519  O2* A   A1350      236.801 133.107 -12.122  1.00 35.82       A16S
ATOM  28520  C3* A   A1350      235.254 132.322 -10.437  1.00 35.82       A16S
ATOM  28521  O3* A   A1350      236.110 131.200 -10.336  1.00 35.82       A16S
ATOM  28522  P   U   A1351      236.590 130.691  -8.892  1.00 34.65       A16S
ATOM  28523  O1P U   A1351      237.197 129.336  -9.046  1.00 65.94       A16S
ATOM  28524  O2P U   A1351      235.457 130.880  -7.955  1.00 65.94       A16S
ATOM  28525  O5* U   A1351      237.727 131.722  -8.474  1.00 34.65       A16S
ATOM  28526  C5* U   A1351      238.895 131.912  -9.297  1.00 34.65       A16S
ATOM  28527  C4* U   A1351      239.620 133.186  -8.910  1.00 34.65       A16S
ATOM  28528  O4* U   A1351      238.799 134.334  -9.253  1.00 34.65       A16S
ATOM  28529  C1* U   A1351      238.948 135.332  -8.262  1.00 34.65       A16S
ATOM  28530  N1  U   A1351      237.634 135.575  -7.638  1.00 65.94       A16S
ATOM  28531  C6  U   A1351      236.611 134.658  -7.702  1.00 65.94       A16S
ATOM  28532  C2  U   A1351      237.464 136.767  -6.976  1.00 65.94       A16S
ATOM  28533  O2  U   A1351      238.338 137.607  -6.894  1.00 65.94       A16S
ATOM  28534  N3  U   A1351      236.235 136.946  -6.410  1.00 65.94       A16S
ATOM  28535  C4  U   A1351      235.183 136.081  -6.431  1.00 65.94       A16S
ATOM  28536  O4  U   A1351      234.143 136.395  -5.855  1.00 65.94       A16S
ATOM  28537  C5  U   A1351      235.425 134.865  -7.136  1.00 65.94       A16S
ATOM  28538  C2* U   A1351      240.016 134.855  -7.271  1.00 34.65       A16S
ATOM  28539  O2* U   A1351      241.288 135.338  -7.653  1.00 34.65       A16S
ATOM  28540  C3* U   A1351      239.932 133.349  -7.430  1.00 34.65       A16S
ATOM  28541  O3* U   A1351      241.146 132.721  -7.062  1.00 34.65       A16S
ATOM  28542  P   C   A1352      241.359 132.255  -5.543  1.00 42.74       A16S
ATOM  28543  O1P C   A1352      242.604 131.439  -5.482  1.00 78.58       A16S
ATOM  28544  O2P C   A1352      240.090 131.677  -5.041  1.00 78.58       A16S
ATOM  28545  O5* C   A1352      241.571 133.639  -4.783  1.00 42.74       A16S
ATOM  28546  C5* C   A1352      242.630 134.539  -5.172  1.00 42.74       A16S
ATOM  28547  C4* C   A1352      242.670 135.755  -4.267  1.00 42.74       A16S
ATOM  28548  O4* C   A1352      241.666 136.734  -4.646  1.00 42.74       A16S
ATOM  28549  C1* C   A1352      241.238 137.437  -3.492  1.00 42.74       A16S
ATOM  28550  N1  C   A1352      239.784 137.245  -3.331  1.00 78.58       A16S
ATOM  28551  C6  C   A1352      239.244 135.985  -3.294  1.00 78.58       A16S
ATOM  28552  C2  C   A1352      238.961 138.369  -3.202  1.00 78.58       A16S
ATOM  28553  O2  C   A1352      239.465 139.501  -3.263  1.00 78.58       A16S
ATOM  28554  N3  C   A1352      237.633 138.191  -3.019  1.00 78.58       A16S
ATOM  28555  C4  C   A1352      237.118 136.954  -2.976  1.00 78.58       A16S
ATOM  28556  N4  C   A1352      235.793 136.825  -2.794  1.00 78.58       A16S
ATOM  28557  C5  C   A1352      237.931 135.796  -3.119  1.00 78.58       A16S
ATOM  28558  C2* C   A1352      242.031 136.898  -2.296  1.00 42.74       A16S
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ATOM  28559  O2* C   A1352     243.153 137.718  -2.073  1.00 42.74      A16S
ATOM  28560  C3* C   A1352     242.443 135.519  -2.783  1.00 42.74      A16S
ATOM  28561  O3* C   A1352     243.618 135.072  -2.138  1.00 42.74      A16S
ATOM  28562  P    G   A1353     243.529 133.872  -1.084  1.00 43.70      A16S
ATOM  28563  O1P G   A1353     244.877 133.249  -1.002  1.00 80.80      A16S
ATOM  28564  O2P G   A1353     242.352 133.033  -1.422  1.00 80.80      A16S
ATOM  28565  O5* G   A1353     243.241 134.600   0.296  1.00 43.70      A16S
ATOM  28566  C5* G   A1353     244.289 135.320   0.942  1.00 43.70      A16S
ATOM  28567  C4* G   A1353     243.773 136.615   1.506  1.00 43.70      A16S
ATOM  28568  O4* G   A1353     242.850 137.202   0.563  1.00 43.70      A16S
ATOM  28569  C1* G   A1353     241.858 137.930   1.262  1.00 43.70      A16S
ATOM  28570  N9   G   A1353     240.547 137.398   0.896  1.00 80.80      A16S
ATOM  28571  C4   G   A1353     239.337 137.933   1.247  1.00 80.80      A16S
ATOM  28572  N3   G   A1353     239.151 139.039   1.991  1.00 80.80      A16S
ATOM  28573  C2   G   A1353     237.875 139.291   2.189  1.00 80.80      A16S
ATOM  28574  N2   G   A1353     237.514 140.340   2.927  1.00 80.80      A16S
ATOM  28575  N1   G   A1353     236.859 138.528   1.684  1.00 80.80      A16S
ATOM  28576  C6   G   A1353     237.025 137.384   0.913  1.00 80.80      A16S
ATOM  28577  O6   G   A1353     236.034 136.760   0.513  1.00 80.80      A16S
ATOM  28578  C5   G   A1353     238.394 137.096   0.701  1.00 80.80      A16S
ATOM  28579  N7   G   A1353     238.999 136.056   0.010  1.00 80.80      A16S
ATOM  28580  C8   G   A1353     240.275 136.276   0.152  1.00 80.80      A16S
ATOM  28581  C2* G   A1353     242.168 137.817   2.756  1.00 43.70      A16S
ATOM  28582  O2* G   A1353     242.930 138.938   3.159  1.00 43.70      A16S
ATOM  28583  C3* G   A1353     242.994 136.543   2.803  1.00 43.70      A16S
ATOM  28584  O3* G   A1353     243.887 136.584   3.891  1.00 43.70      A16S
ATOM  28585  P    C   A1354     243.444 135.967   5.295  1.00 45.85      A16S
ATOM  28586  O1P C   A1354     244.649 135.983   6.173  1.00 91.06      A16S
ATOM  28587  O2P C   A1354     242.756 134.680   5.022  1.00 91.06      A16S
ATOM  28588  O5* C   A1354     242.373 137.020   5.844  1.00 45.85      A16S
ATOM  28589  C5* C   A1354     242.785 138.359   6.185  1.00 45.85      A16S
ATOM  28590  C4* C   A1354     241.648 139.147   6.800  1.00 45.85      A16S
ATOM  28591  O4* C   A1354     240.732 139.617   5.785  1.00 45.85      A16S
ATOM  28592  C1* C   A1354     239.427 139.680   6.329  1.00 45.85      A16S
ATOM  28593  N1   C   A1354     238.569 138.727   5.605  1.00 91.06      A16S
ATOM  28594  C6   C   A1354     239.115 137.680   4.915  1.00 91.06      A16S
ATOM  28595  C2   C   A1354     237.182 138.891   5.650  1.00 91.06      A16S
ATOM  28596  O2   C   A1354     236.708 139.848   6.275  1.00 91.06      A16S
ATOM  28597  N3   C   A1354     236.394 137.999   5.018  1.00 91.06      A16S
ATOM  28598  C4   C   A1354     236.939 136.973   4.364  1.00 91.06      A16S
ATOM  28599  N4   C   A1354     236.124 136.106   3.769  1.00 91.06      A16S
ATOM  28600  C5   C   A1354     238.344 136.788   4.291  1.00 91.06      A16S
ATOM  28601  C2* C   A1354     239.523 139.294   7.806  1.00 45.85      A16S
ATOM  28602  O2* C   A1354     239.683 140.456   8.590  1.00 45.85      A16S
ATOM  28603  C3* C   A1354     240.782 138.451   7.831  1.00 45.85      A16S
ATOM  28604  O3* C   A1354     241.360 138.525   9.117  1.00 45.85      A16S
ATOM  28605  P    G   A1355     240.806 137.584  10.297  1.00 52.13      A16S
ATOM  28606  O1P G   A1355     241.645 137.779  11.516  1.00 85.32      A16S
ATOM  28607  O2P G   A1355     240.648 136.218   9.738  1.00 85.32      A16S
ATOM  28608  O5* G   A1355     239.358 138.172  10.603  1.00 52.13      A16S
ATOM  28609  C5* G   A1355     239.195 139.400  11.328  1.00 52.13      A16S
ATOM  28610  C4* G   A1355     237.733 139.626  11.648  1.00 52.13      A16S
ATOM  28611  O4* G   A1355     236.988 139.697  10.402  1.00 52.13      A16S
ATOM  28612  C1* G   A1355     235.707 139.116  10.574  1.00 52.13      A16S
ATOM  28613  N9   G   A1355     235.601 137.948   9.698  1.00 85.32      A16S
ATOM  28614  C4   G   A1355     234.458 137.218   9.445  1.00 85.32      A16S
ATOM  28615  N3   G   A1355     233.229 137.477   9.931  1.00 85.32      A16S
ATOM  28616  C2   G   A1355     232.345 136.580   9.539  1.00 85.32      A16S
ATOM  28617  N2   G   A1355     231.076 136.681   9.936  1.00 85.32      A16S
ATOM  28618  N1   G   A1355     232.637 135.516   8.733  1.00 85.32      A16S
ATOM  28619  C6   G   A1355     233.890 135.227   8.218  1.00 85.32      A16S
ATOM  28620  O6   G   A1355     234.042 134.234   7.507  1.00 85.32      A16S
ATOM  28621  C5   G   A1355     234.857 136.184   8.628  1.00 85.32      A16S
ATOM  28622  N7   G   A1355     236.215 136.272   8.347  1.00 85.32      A16S
ATOM  28623  C8   G   A1355     236.612 137.335   8.993  1.00 85.32      A16S
ATOM  28624  C2* G   A1355     235.579 138.729  12.049  1.00 52.13      A16S
ATOM  28625  O2* G   A1355     234.966 139.783  12.761  1.00 52.13      A16S
ATOM  28626  C3* G   A1355     237.033 138.540  12.452  1.00 52.13      A16S
ATOM  28627  O3* G   A1355     237.204 138.683  13.862  1.00 52.13      A16S
ATOM  28628  P    G   A1356     237.154 137.378  14.809  1.00 61.92      A16S
ATOM  28629  O1P G   A1356     237.716 137.735  16.125  1.00 77.04      A16S
ATOM  28630  O2P G   A1356     237.738 136.248  14.055  1.00 77.04      A16S
ATOM  28631  O5* G   A1356     235.601 137.088  15.021  1.00 61.92      A16S
ATOM  28632  C5* G   A1356     234.696 138.154  15.380  1.00 61.92      A16S
ATOM  28633  C4* G   A1356     233.258 137.715  15.217  1.00 61.92      A16S
ATOM  28634  O4* G   A1356     232.974 137.470  13.818  1.00 61.92      A16S
ATOM  28635  C1* G   A1356     232.068 136.389  13.698  1.00 61.92      A16S
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ATOM  28636  N9  G   A1356     232.695 135.340  12.896  1.00 77.04      A16S
ATOM  28637  C4  G   A1356     232.045 134.330  12.217  1.00 77.04      A16S
ATOM  28638  N3  G   A1356     230.708 134.153  12.141  1.00 77.04      A16S
ATOM  28639  C2  G   A1356     230.393 133.076  11.445  1.00 77.04      A16S
ATOM  28640  N2  G   A1356     229.112 132.744  11.269  1.00 77.04      A16S
ATOM  28641  N1  G   A1356     231.308 132.240  10.873  1.00 77.04      A16S
ATOM  28642  C6  G   A1356     232.687 132.392  10.945  1.00 77.04      A16S
ATOM  28643  O6  G   A1356     233.427 131.553  10.415  1.00 77.04      A16S
ATOM  28644  C5  G   A1356     233.045 133.554  11.678  1.00 77.04      A16S
ATOM  28645  N7  G   A1356     234.295 134.078  11.981  1.00 77.04      A16S
ATOM  28646  C8  G   A1356     234.039 135.136  12.696  1.00 77.04      A16S
ATOM  28647  C2* G   A1356     231.706 135.916  15.111  1.00 61.92      A16S
ATOM  28648  O2* G   A1356     230.457 136.455  15.490  1.00 61.92      A16S
ATOM  28649  C3* G   A1356     232.877 136.435  15.938  1.00 61.92      A16S
ATOM  28650  O3* G   A1356     232.494 136.731  17.277  1.00 61.92      A16S
ATOM  28651  P   A   A1357     232.564 135.593  18.406  1.00 68.66      A16S
ATOM  28652  O1P A   A1357     232.332 136.299  19.686  1.00 73.99      A16S
ATOM  28653  O2P A   A1357     233.785 134.766  18.233  1.00 73.99      A16S
ATOM  28654  O5* A   A1357     231.297 134.679  18.108  1.00 68.66      A16S
ATOM  28655  C5* A   A1357     229.958 135.173  18.339  1.00 68.66      A16S
ATOM  28656  C4* A   A1357     228.936 134.227  17.750  1.00 68.66      A16S
ATOM  28657  O4* A   A1357     229.136 134.157  16.319  1.00 68.66      A16S
ATOM  28658  C1* A   A1357     228.888 132.839  15.873  1.00 68.66      A16S
ATOM  28659  N9  A   A1357     230.097 132.342  15.217  1.00 73.99      A16S
ATOM  28660  C4  A   A1357     230.177 131.248  14.394  1.00 73.99      A16S
ATOM  28661  N3  A   A1357     229.180 130.424  14.037  1.00 73.99      A16S
ATOM  28662  C2  A   A1357     229.633 129.463  13.241  1.00 73.99      A16S
ATOM  28663  N1  A   A1357     230.873 129.251  12.792  1.00 73.99      A16S
ATOM  28664  C6  A   A1357     231.846 130.103  13.162  1.00 73.99      A16S
ATOM  28665  N6  A   A1357     233.076 129.900  12.701  1.00 73.99      A16S
ATOM  28666  C5  A   A1357     231.499 131.160  14.010  1.00 73.99      A16S
ATOM  28667  N7  A   A1357     232.244 132.181  14.580  1.00 73.99      A16S
ATOM  28668  C8  A   A1357     231.368 132.852  15.284  1.00 73.99      A16S
ATOM  28669  C2* A   A1357     228.447 131.998  17.078  1.00 68.66      A16S
ATOM  28670  O2* A   A1357     227.034 131.933  17.148  1.00 68.66      A16S
ATOM  28671  C3* A   A1357     229.018 132.790  18.241  1.00 68.66      A16S
ATOM  28672  O3* A   A1357     228.202 132.607  19.383  1.00 68.66      A16S
ATOM  28673  P   U   A1358     228.866 132.562  20.840  1.00 47.51      A16S
ATOM  28674  O1P U   A1358     227.820 133.090  21.754  1.00 63.03      A16S
ATOM  28675  O2P U   A1358     230.199 133.217  20.791  1.00 63.03      A16S
ATOM  28676  O5* U   A1358     229.099 131.011  21.152  1.00 47.51      A16S
ATOM  28677  C5* U   A1358     228.005 130.070  21.138  1.00 47.51      A16S
ATOM  28678  C4* U   A1358     228.429 128.777  20.478  1.00 47.51      A16S
ATOM  28679  O4* U   A1358     228.885 129.044  19.138  1.00 47.51      A16S
ATOM  28680  C1* U   A1358     229.768 128.015  18.748  1.00 47.51      A16S
ATOM  28681  N1  U   A1358     230.837 128.560  17.896  1.00 63.03      A16S
ATOM  28682  C6  U   A1358     231.175 129.880  17.935  1.00 63.03      A16S
ATOM  28683  C2  U   A1358     231.495 127.684  17.042  1.00 63.03      A16S
ATOM  28684  O2  U   A1358     231.223 126.503  16.956  1.00 63.03      A16S
ATOM  28685  N3  U   A1358     232.482 128.245  16.288  1.00 63.03      A16S
ATOM  28686  C4  U   A1358     232.867 129.552  16.293  1.00 63.03      A16S
ATOM  28687  O4  U   A1358     233.783 129.908  15.566  1.00 63.03      A16S
ATOM  28688  C5  U   A1358     232.139 130.392  17.183  1.00 63.03      A16S
ATOM  28689  C2* U   A1358     230.233 127.266  19.998  1.00 47.51      A16S
ATOM  28690  O2* U   A1358     229.803 125.923  19.932  1.00 47.51      A16S
ATOM  28691  C3* U   A1358     229.590 128.054  21.138  1.00 47.51      A16S
ATOM  28692  O3* U   A1358     229.040 127.110  22.039  1.00 47.51      A16S
ATOM  28693  P   C   A1359     229.261 127.272  23.611  1.00 63.93      A16S
ATOM  28694  O1P C   A1359     228.589 126.110  24.281  1.00 40.05      A16S
ATOM  28695  O2P C   A1359     228.860 128.675  23.946  1.00 40.05      A16S
ATOM  28696  O5* C   A1359     230.828 127.085  23.792  1.00 63.93      A16S
ATOM  28697  C5* C   A1359     231.450 125.825  23.492  1.00 63.93      A16S
ATOM  28698  C4* C   A1359     232.822 126.041  22.892  1.00 63.93      A16S
ATOM  28699  O4* C   A1359     232.700 126.902  21.737  1.00 63.93      A16S
ATOM  28700  C1* C   A1359     233.914 127.592  21.541  1.00 63.93      A16S
ATOM  28701  N1  C   A1359     233.645 129.012  21.261  1.00 40.05      A16S
ATOM  28702  C6  C   A1359     232.428 129.582  21.519  1.00 40.05      A16S
ATOM  28703  C2  C   A1359     234.667 129.769  20.687  1.00 40.05      A16S
ATOM  28704  O2  C   A1359     235.783 129.231  20.504  1.00 40.05      A16S
ATOM  28705  N3  C   A1359     234.428 131.064  20.344  1.00 40.05      A16S
ATOM  28706  C4  C   A1359     233.227 131.605  20.566  1.00 40.05      A16S
ATOM  28707  N4  C   A1359     233.031 132.879  20.176  1.00 40.05      A16S
ATOM  28708  C5  C   A1359     232.175 130.864  21.189  1.00 40.05      A16S
ATOM  28709  C2* C   A1359     234.839 127.291  22.712  1.00 63.93      A16S
ATOM  28710  O2* C   A1359     235.769 126.327  22.262  1.00 63.93      A16S
ATOM  28711  C3* C   A1359     233.857 126.752  23.748  1.00 63.93      A16S
ATOM  28712  O3* C   A1359     234.469 125.863  24.680  1.00 63.93      A16S
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ATOM  28713  P    A    A1360      234.979 126.429  26.103  1.00 68.95      A16S
ATOM  28714  O1P  A    A1360      234.138 127.609  26.467  1.00 62.54      A16S
ATOM  28715  O2P  A    A1360      235.100 125.279  27.054  1.00 62.54      A16S
ATOM  28716  O5*  A    A1360      236.434 126.985  25.777  1.00 68.95      A16S
ATOM  28717  C5*  A    A1360      237.251 127.575  26.798  1.00 68.95      A16S
ATOM  28718  C4*  A    A1360      238.627 126.964  26.771  1.00 68.95      A16S
ATOM  28719  O4*  A    A1360      238.609 125.650  27.369  1.00 68.95      A16S
ATOM  28720  C1*  A    A1360      239.552 124.826  26.715  1.00 68.95      A16S
ATOM  28721  N9   A    A1360      238.919 123.541  26.416  1.00 62.54      A16S
ATOM  28722  C4   A    A1360      239.543 122.375  26.045  1.00 62.54      A16S
ATOM  28723  N3   A    A1360      240.846 122.193  25.798  1.00 62.54      A16S
ATOM  28724  C2   A    A1360      241.097 120.915  25.527  1.00 62.54      A16S
ATOM  28725  N1   A    A1360      240.257 119.871  25.483  1.00 62.54      A16S
ATOM  28726  C6   A    A1360      238.950 120.086  25.737  1.00 62.54      A16S
ATOM  28727  N6   A    A1360      238.110 119.040  25.715  1.00 62.54      A16S
ATOM  28728  C5   A    A1360      238.552 121.408  26.023  1.00 62.54      A16S
ATOM  28729  N7   A    A1360      237.316 121.966  26.313  1.00 62.54      A16S
ATOM  28730  C8   A    A1360      237.585 123.231  26.522  1.00 62.54      A16S
ATOM  28731  C2*  A    A1360      240.175 125.614  25.561  1.00 68.95      A16S
ATOM  28732  O2*  A    A1360      241.438 126.074  25.977  1.00 68.95      A16S
ATOM  28733  C3*  A    A1360      239.188 126.761  25.380  1.00 68.95      A16S
ATOM  28734  O3*  A    A1360      239.828 127.956  24.969  1.00 68.95      A16S
ATOM  28735  P    G    A1361      239.899 128.316  23.414  1.00 55.99      A16S
ATOM  28736  O1P  G    A1361      240.896 129.406  23.230  1.00 64.88      A16S
ATOM  28737  O2P  G    A1361      238.510 128.514  22.928  1.00 64.88      A16S
ATOM  28738  O5*  G    A1361      240.502 126.982  22.786  1.00 55.99      A16S
ATOM  28739  C5*  G    A1361      241.867 126.632  23.039  1.00 55.99      A16S
ATOM  28740  C4*  G    A1361      242.174 125.255  22.517  1.00 55.99      A16S
ATOM  28741  O4*  G    A1361      241.531 124.258  23.337  1.00 55.99      A16S
ATOM  28742  C1*  G    A1361      241.165 123.154  22.533  1.00 55.99      A16S
ATOM  28743  N9   G    A1361      239.718 122.976  22.625  1.00 64.88      A16S
ATOM  28744  C4   G    A1361      239.054 121.781  22.548  1.00 64.88      A16S
ATOM  28745  N3   G    A1361      239.629 120.572  22.397  1.00 64.88      A16S
ATOM  28746  C2   G    A1361      238.737 119.602  22.366  1.00 64.88      A16S
ATOM  28747  N2   G    A1361      239.137 118.331  22.252  1.00 64.88      A16S
ATOM  28748  N1   G    A1361      237.382 119.800  22.453  1.00 64.88      A16S
ATOM  28749  C6   G    A1361      236.760 121.032  22.599  1.00 64.88      A16S
ATOM  28750  O6   G    A1361      235.522 121.089  22.662  1.00 64.88      A16S
ATOM  28751  C5   G    A1361      237.717 122.094  22.656  1.00 64.88      A16S
ATOM  28752  N7   G    A1361      237.543 123.465  22.809  1.00 64.88      A16S
ATOM  28753  C8   G    A1361      238.754 123.948  22.788  1.00 64.88      A16S
ATOM  28754  C2*  G    A1361      241.632 123.438  21.102  1.00 55.99      A16S
ATOM  28755  O2*  G    A1361      242.880 122.816  20.850  1.00 55.99      A16S
ATOM  28756  C3*  G    A1361      241.713 124.956  21.107  1.00 55.99      A16S
ATOM  28757  O3*  G    A1361      242.622 125.452  20.151  1.00 55.99      A16S
ATOM  28758  P    C    A1361A     242.058 126.157  18.831  1.00 65.76      A16S
ATOM  28759  O1P  C    A1361A     243.208 126.741  18.100  1.00 76.95      A16S
ATOM  28760  O2P  C    A1361A     240.919 127.024  19.209  1.00 76.95      A16S
ATOM  28761  O5*  C    A1361A     241.497 124.920  18.006  1.00 65.76      A16S
ATOM  28762  C5*  C    A1361A     242.370 123.829  17.662  1.00 65.76      A16S
ATOM  28763  C4*  C    A1361A     241.587 122.676  17.080  1.00 65.76      A16S
ATOM  28764  O4*  C    A1361A     240.870 121.965  18.124  1.00 65.76      A16S
ATOM  28765  C1*  C    A1361A     239.655 121.460  17.601  1.00 65.76      A16S
ATOM  28766  N1   C    A1361A     238.523 122.086  18.315  1.00 76.95      A16S
ATOM  28767  C6   C    A1361A     238.610 123.366  18.784  1.00 76.95      A16S
ATOM  28768  C2   C    A1361A     237.331 121.353  18.484  1.00 76.95      A16S
ATOM  28769  O2   C    A1361A     237.270 120.180  18.069  1.00 76.95      A16S
ATOM  28770  N3   C    A1361A     236.276 121.940  19.092  1.00 76.95      A16S
ATOM  28771  C4   C    A1361A     236.370 123.196  19.525  1.00 76.95      A16S
ATOM  28772  N4   C    A1361A     235.292 123.736  20.101  1.00 76.95      A16S
ATOM  28773  C5   C    A1361A     237.568 123.955  19.385  1.00 76.95      A16S
ATOM  28774  C2*  C    A1361A     239.620 121.806  16.112  1.00 65.76      A16S
ATOM  28775  O2*  C    A1361A     240.152 120.730  15.372  1.00 65.76      A16S
ATOM  28776  C3*  C    A1361A     240.525 123.028  16.054  1.00 65.76      A16S
ATOM  28777  O3*  C    A1361A     241.066 123.253  14.755  1.00 65.76      A16S
ATOM  28778  P    C    A1362      240.077 123.561  13.518  1.00 55.54      A16S
ATOM  28779  O1P  C    A1362      240.790 124.427  12.545  1.00 59.00      A16S
ATOM  28780  O2P  C    A1362      238.761 124.002  14.040  1.00 59.00      A16S
ATOM  28781  O5*  C    A1362      239.947 122.133  12.830  1.00 55.54      A16S
ATOM  28782  C5*  C    A1362      238.694 121.447  12.742  1.00 55.54      A16S
ATOM  28783  C4*  C    A1362      238.935 120.017  12.338  1.00 55.54      A16S
ATOM  28784  O4*  C    A1362      239.626 119.328  13.404  1.00 55.54      A16S
ATOM  28785  C1*  C    A1362      239.352 117.953  13.307  1.00 55.54      A16S
ATOM  28786  N1   C    A1362      239.043 117.401  14.630  1.00 59.00      A16S
ATOM  28787  C6   C    A1362      238.404 118.130  15.592  1.00 59.00      A16S
ATOM  28788  C2   C    A1362      239.406 116.088  14.874  1.00 59.00      A16S
ATOM  28789  O2   C    A1362      240.021 115.464  13.986  1.00 59.00      A16S
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ATOM  28790  N3  C   A1362     239.095 115.520  16.061  1.00 59.00      A16S
ATOM  28791  C4  C   A1362     238.459 116.227  16.991  1.00 59.00      A16S
ATOM  28792  N4  C   A1362     238.167 115.613  18.143  1.00 59.00      A16S
ATOM  28793  C5  C   A1362     238.097 117.587  16.781  1.00 59.00      A16S
ATOM  28794  C2* C   A1362     238.248 117.747  12.270  1.00 55.54      A16S
ATOM  28795  O2* C   A1362     238.831 117.232  11.082  1.00 55.54      A16S
ATOM  28796  C3* C   A1362     237.707 119.161  12.089  1.00 55.54      A16S
ATOM  28797  O3* C   A1362     237.247 119.332  10.756  1.00 55.54      A16S
ATOM  28798  P   A   A1363     236.232 120.520  10.412  1.00 62.11      A16S
ATOM  28799  O1P A   A1363     235.440 120.844  11.621  1.00 91.76      A16S
ATOM  28800  O2P A   A1363     235.536 120.152   9.163  1.00 91.76      A16S
ATOM  28801  O5* A   A1363     237.190 121.744  10.099  1.00 62.11      A16S
ATOM  28802  C5* A   A1363     237.495 122.090   8.747  1.00 62.11      A16S
ATOM  28803  C4* A   A1363     237.181 123.538   8.515  1.00 62.11      A16S
ATOM  28804  O4* A   A1363     235.817 123.782   8.942  1.00 62.11      A16S
ATOM  28805  C1* A   A1363     235.788 124.793   9.930  1.00 62.11      A16S
ATOM  28806  N9  A   A1363     234.728 124.467  10.891  1.00 91.76      A16S
ATOM  28807  C4  A   A1363     234.348 125.201  11.988  1.00 91.76      A16S
ATOM  28808  N3  A   A1363     234.862 126.369  12.410  1.00 91.76      A16S
ATOM  28809  C2  A   A1363     234.254 126.776  13.521  1.00 91.76      A16S
ATOM  28810  N1  A   A1363     233.271 126.191  14.211  1.00 91.76      A16S
ATOM  28811  C6  A   A1363     232.782 125.014  13.763  1.00 91.76      A16S
ATOM  28812  N6  A   A1363     231.816 124.414  14.460  1.00 91.76      A16S
ATOM  28813  C5  A   A1363     233.330 124.484  12.587  1.00 91.76      A16S
ATOM  28814  N7  A   A1363     233.056 123.329  11.873  1.00 91.76      A16S
ATOM  28815  C8  A   A1363     233.908 123.364  10.882  1.00 91.76      A16S
ATOM  28816  C2* A   A1363     237.202 124.864  10.509  1.00 62.11      A16S
ATOM  28817  O2* A   A1363     237.487 126.160  10.994  1.00 62.11      A16S
ATOM  28818  C3* A   A1363     238.054 124.514   9.291  1.00 62.11      A16S
ATOM  28819  O3* A   A1363     238.254 125.667   8.478  1.00 62.11      A16S
ATOM  28820  P   U   A1364     239.451 125.684   7.403  1.00 43.99      A16S
ATOM  28821  O1P U   A1364     239.859 127.110   7.196  1.00 67.59      A16S
ATOM  28822  O2P U   A1364     240.458 124.673   7.848  1.00 67.59      A16S
ATOM  28823  O5* U   A1364     238.786 125.165   6.057  1.00 43.99      A16S
ATOM  28824  C5* U   A1364     238.535 126.073   4.967  1.00 43.99      A16S
ATOM  28825  C4* U   A1364     237.866 125.344   3.826  1.00 43.99      A16S
ATOM  28826  O4* U   A1364     238.706 124.229   3.448  1.00 43.99      A16S
ATOM  28827  C1* U   A1364     237.979 123.036   3.529  1.00 43.99      A16S
ATOM  28828  N1  U   A1364     238.895 122.005   4.015  1.00 67.59      A16S
ATOM  28829  C6  U   A1364     239.691 122.216   5.105  1.00 67.59      A16S
ATOM  28830  C2  U   A1364     238.930 120.824   3.322  1.00 67.59      A16S
ATOM  28831  O2  U   A1364     238.232 120.612   2.346  1.00 67.59      A16S
ATOM  28832  N3  U   A1364     239.812 119.895   3.810  1.00 67.59      A16S
ATOM  28833  C4  U   A1364     240.640 120.038   4.899  1.00 67.59      A16S
ATOM  28834  O4  U   A1364     241.371 119.105   5.233  1.00 67.59      A16S
ATOM  28835  C5  U   A1364     240.540 121.301   5.559  1.00 67.59      A16S
ATOM  28836  C2* U   A1364     236.768 123.310   4.416  1.00 43.99      A16S
ATOM  28837  O2* U   A1364     235.700 122.480   4.025  1.00 43.99      A16S
ATOM  28838  C3* U   A1364     236.482 124.769   4.095  1.00 43.99      A16S
ATOM  28839  O3* U   A1364     235.783 124.829   2.865  1.00 43.99      A16S
ATOM  28840  P   G   A1365     234.407 125.636   2.760  1.00 35.08      A16S
ATOM  28841  O1P G   A1365     233.801 125.242   1.464  1.00 71.76      A16S
ATOM  28842  O2P G   A1365     234.668 127.078   3.026  1.00 71.76      A16S
ATOM  28843  O5* G   A1365     233.550 125.025   3.963  1.00 35.08      A16S
ATOM  28844  C5* G   A1365     232.931 123.721   3.858  1.00 35.08      A16S
ATOM  28845  C4* G   A1365     231.683 123.658   4.711  1.00 35.08      A16S
ATOM  28846  O4* G   A1365     232.041 123.406   6.087  1.00 35.08      A16S
ATOM  28847  C1* G   A1365     231.168 124.123   6.947  1.00 35.08      A16S
ATOM  28848  N9  G   A1365     231.964 125.048   7.755  1.00 71.76      A16S
ATOM  28849  C4  G   A1365     231.538 125.768   8.850  1.00 71.76      A16S
ATOM  28850  N3  G   A1365     230.299 125.755   9.378  1.00 71.76      A16S
ATOM  28851  C2  G   A1365     230.199 126.569  10.411  1.00 71.76      A16S
ATOM  28852  N2  G   A1365     229.035 126.691  11.057  1.00 71.76      A16S
ATOM  28853  N1  G   A1365     231.231 127.325  10.886  1.00 71.76      A16S
ATOM  28854  C6  G   A1365     232.512 127.350  10.356  1.00 71.76      A16S
ATOM  28855  O6  G   A1365     233.370 128.074  10.855  1.00 71.76      A16S
ATOM  28856  C5  G   A1365     232.633 126.494   9.257  1.00 71.76      A16S
ATOM  28857  N7  G   A1365     233.724 126.240   8.444  1.00 71.76      A16S
ATOM  28858  C8  G   A1365     233.283 125.379   7.570  1.00 71.76      A16S
ATOM  28859  C2* G   A1365     230.130 124.835   6.075  1.00 35.08      A16S
ATOM  28860  O2* G   A1365     228.957 124.059   5.981  1.00 35.08      A16S
ATOM  28861  C3* G   A1365     230.850 124.930   4.742  1.00 35.08      A16S
ATOM  28862  O3* G   A1365     229.914 124.971   3.684  1.00 35.08      A16S
ATOM  28863  P   C   A1366     229.307 126.378   3.220  1.00 36.02      A16S
ATOM  28864  O1P C   A1366     228.247 126.113   2.210  1.00 63.53      A16S
ATOM  28865  O2P C   A1366     230.434 127.281   2.889  1.00 63.53      A16S
ATOM  28866  O5* C   A1366     228.591 126.947   4.520  1.00 36.02      A16S
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ATOM  28867  C5* C   A1366     227.346 126.384   4.987  1.00 36.02      A16S
ATOM  28868  C4* C   A1366     226.849 127.134   6.206  1.00 36.02      A16S
ATOM  28869  O4* C   A1366     227.786 126.973   7.296  1.00 36.02      A16S
ATOM  28870  C1* C   A1366     227.859 128.178   8.040  1.00 36.02      A16S
ATOM  28871  N1   C   A1366     229.266 128.647   8.044  1.00 63.53      A16S
ATOM  28872  C6   C   A1366     230.150 128.213   7.098  1.00 63.53      A16S
ATOM  28873  C2   C   A1366     229.686 129.544   9.035  1.00 63.53      A16S
ATOM  28874  O2   C   A1366     228.870 129.954   9.875  1.00 63.53      A16S
ATOM  28875  N3   C   A1366     230.965 129.951   9.048  1.00 63.53      A16S
ATOM  28876  C4   C   A1366     231.812 129.518   8.123  1.00 63.53      A16S
ATOM  28877  N4   C   A1366     233.064 129.950   8.182  1.00 63.53      A16S
ATOM  28878  C5   C   A1366     231.415 128.622   7.101  1.00 63.53      A16S
ATOM  28879  C2* C   A1366     226.849 129.163   7.443  1.00 36.02      A16S
ATOM  28880  O2* C   A1366     225.633 129.078   8.153  1.00 36.02      A16S
ATOM  28881  C3* C   A1366     226.694 128.631   6.033  1.00 36.02      A16S
ATOM  28882  O3* C   A1366     225.408 128.911   5.567  1.00 36.02      A16S
ATOM  28883  P    C   A1367     225.172 130.215   4.691  1.00 30.24      A16S
ATOM  28884  O1P C   A1367     223.782 130.169   4.159  1.00 63.26      A16S
ATOM  28885  O2P C   A1367     226.328 130.293   3.756  1.00 63.26      A16S
ATOM  28886  O5* C   A1367     225.282 131.413   5.735  1.00 30.24      A16S
ATOM  28887  C5* C   A1367     224.260 131.647   6.744  1.00 30.24      A16S
ATOM  28888  C4* C   A1367     224.627 132.843   7.602  1.00 30.24      A16S
ATOM  28889  O4* C   A1367     225.778 132.541   8.439  1.00 30.24      A16S
ATOM  28890  C1* C   A1367     226.609 133.690   8.536  1.00 30.24      A16S
ATOM  28891  N1   C   A1367     227.984 133.355   8.090  1.00 63.26      A16S
ATOM  28892  C6   C   A1367     228.286 132.120   7.588  1.00 63.26      A16S
ATOM  28893  C2   C   A1367     228.989 134.342   8.181  1.00 63.26      A16S
ATOM  28894  O2   C   A1367     228.698 135.469   8.629  1.00 63.26      A16S
ATOM  28895  N3   C   A1367     230.245 134.047   7.769  1.00 63.26      A16S
ATOM  28896  C4   C   A1367     230.517 132.842   7.271  1.00 63.26      A16S
ATOM  28897  N4   C   A1367     231.762 132.600   6.862  1.00 63.26      A16S
ATOM  28898  C5   C   A1367     229.523 131.829   7.165  1.00 63.26      A16S
ATOM  28899  C2* C   A1367     225.970 134.811   7.709  1.00 30.24      A16S
ATOM  28900  O2* C   A1367     225.285 135.708   8.540  1.00 30.24      A16S
ATOM  28901  C3* C   A1367     225.034 134.052   6.791  1.00 30.24      A16S
ATOM  28902  O3* C   A1367     223.926 134.840   6.464  1.00 30.24      A16S
ATOM  28903  P    G   A1368     224.012 135.793   5.191  1.00 49.91      A16S
ATOM  28904  O1P G   A1368     222.776 136.631   5.130  1.00 61.51      A16S
ATOM  28905  O2P G   A1368     224.350 134.910   4.059  1.00 61.51      A16S
ATOM  28906  O5* G   A1368     225.276 136.733   5.480  1.00 49.91      A16S
ATOM  28907  C5* G   A1368     225.096 138.001   6.157  1.00 49.91      A16S
ATOM  28908  C4* G   A1368     226.419 138.680   6.501  1.00 49.91      A16S
ATOM  28909  O4* G   A1368     227.359 137.754   7.121  1.00 49.91      A16S
ATOM  28910  C1* G   A1368     228.672 138.277   6.991  1.00 49.91      A16S
ATOM  28911  N9   G   A1368     229.558 137.288   6.384  1.00 61.51      A16S
ATOM  28912  C4   G   A1368     230.924 137.420   6.237  1.00 61.51      A16S
ATOM  28913  N3   G   A1368     231.673 138.466   6.659  1.00 61.51      A16S
ATOM  28914  C2   G   A1368     232.945 138.325   6.338  1.00 61.51      A16S
ATOM  28915  N2   G   A1368     233.829 139.273   6.675  1.00 61.51      A16S
ATOM  28916  N1   G   A1368     233.442 137.248   5.660  1.00 61.51      A16S
ATOM  28917  C6   G   A1368     232.693 136.167   5.214  1.00 61.51      A16S
ATOM  28918  O6   G   A1368     233.240 135.262   4.589  1.00 61.51      A16S
ATOM  28919  C5   G   A1368     231.328 136.297   5.560  1.00 61.51      A16S
ATOM  28920  N7   G   A1368     230.253 135.454   5.318  1.00 61.51      A16S
ATOM  28921  C8   G   A1368     229.226 136.083   5.822  1.00 61.51      A16S
ATOM  28922  C2* G   A1368     228.588 139.535   6.124  1.00 49.91      A16S
ATOM  28923  O2* G   A1368     228.588 140.661   6.974  1.00 49.91      A16S
ATOM  28924  C3* G   A1368     227.247 139.364   5.421  1.00 49.91      A16S
ATOM  28925  O3* G   A1368     226.741 140.650   5.068  1.00 49.91      A16S
ATOM  28926  P    C   A1369     227.374 141.443   3.809  1.00 41.16      A16S
ATOM  28927  O1P C   A1369     226.752 142.794   3.764  1.00 71.62      A16S
ATOM  28928  O2P C   A1369     227.338 140.587   2.592  1.00 71.62      A16S
ATOM  28929  O5* C   A1369     228.907 141.640   4.205  1.00 41.16      A16S
ATOM  28930  C5* C   A1369     229.284 142.505   5.298  1.00 41.16      A16S
ATOM  28931  C4* C   A1369     230.734 142.917   5.183  1.00 41.16      A16S
ATOM  28932  O4* C   A1369     231.628 141.811   5.461  1.00 41.16      A16S
ATOM  28933  C1* C   A1369     232.784 141.930   4.648  1.00 41.16      A16S
ATOM  28934  N1   C   A1369     232.915 140.718   3.809  1.00 71.62      A16S
ATOM  28935  C6   C   A1369     231.816 139.998   3.428  1.00 71.62      A16S
ATOM  28936  C2   C   A1369     234.193 140.315   3.401  1.00 71.62      A16S
ATOM  28937  O2   C   A1369     235.174 140.985   3.744  1.00 71.62      A16S
ATOM  28938  N3   C   A1369     234.324 139.210   2.639  1.00 71.62      A16S
ATOM  28939  C4   C   A1369     233.247 138.515   2.279  1.00 71.62      A16S
ATOM  28940  N4   C   A1369     233.429 137.430   1.533  1.00 71.62      A16S
ATOM  28941  C5   C   A1369     231.936 138.902   2.670  1.00 71.62      A16S
ATOM  28942  C2* C   A1369     232.652 143.215   3.825  1.00 41.16      A16S
ATOM  28943  O2* C   A1369     233.347 144.242   4.484  1.00 41.16      A16S
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ATOM  28944  C3* C   A1369     231.152 143.451   3.829  1.00 41.16      A16S
ATOM  28945  O3* C   A1369     230.864 144.825   3.785  1.00 41.16      A16S
ATOM  28946  P    G   A1370     230.403 145.490   2.415  1.00 44.07      A16S
ATOM  28947  O1P G   A1370     229.934 146.867   2.734  1.00 96.89      A16S
ATOM  28948  O2P G   A1370     229.480 144.548   1.729  1.00 96.89      A16S
ATOM  28949  O5* G   A1370     231.764 145.596   1.589  1.00 44.07      A16S
ATOM  28950  C5* G   A1370     232.748 146.592   1.942  1.00 44.07      A16S
ATOM  28951  C4* G   A1370     234.145 146.182   1.511  1.00 44.07      A16S
ATOM  28952  O4* G   A1370     234.472 144.879   2.056  1.00 44.07      A16S
ATOM  28953  C1* G   A1370     235.400 144.236   1.212  1.00 44.07      A16S
ATOM  28954  N9   G   A1370     234.807 142.991   0.737  1.00 96.89      A16S
ATOM  28955  C4   G   A1370     235.479 141.929   0.184  1.00 96.89      A16S
ATOM  28956  N3   G   A1370     236.816 141.839   0.012  1.00 96.89      A16S
ATOM  28957  C2   G   A1370     237.163 140.710  -0.575  1.00 96.89      A16S
ATOM  28958  N2   G   A1370     238.456 140.461  -0.824  1.00 96.89      A16S
ATOM  28959  N1   G   A1370     236.267 139.742  -0.964  1.00 96.89      A16S
ATOM  28960  C6   G   A1370     234.885 139.812  -0.797  1.00 96.89      A16S
ATOM  28961  O6   G   A1370     234.160 138.881  -1.193  1.00 96.89      A16S
ATOM  28962  C5   G   A1370     234.502 141.020  -0.163  1.00 96.89      A16S
ATOM  28963  N7   G   A1370     233.246 141.488   0.189  1.00 96.89      A16S
ATOM  28964  C8   G   A1370     233.476 142.656   0.723  1.00 96.89      A16S
ATOM  28965  C2* G   A1370     235.719 145.196   0.063  1.00 44.07      A16S
ATOM  28966  O2* G   A1370     236.849 145.958   0.421  1.00 44.07      A16S
ATOM  28967  C3* G   A1370     234.484 146.079   0.031  1.00 44.07      A16S
ATOM  28968  O3* G   A1370     234.824 147.354  -0.510  1.00 44.07      A16S
ATOM  28969  P    G   A1371     235.027 147.529  -2.098  1.00 39.85      A16S
ATOM  28970  O1P G   A1371     235.366 148.945  -2.370  1.00 70.47      A16S
ATOM  28971  O2P G   A1371     233.891 146.910  -2.816  1.00 70.47      A16S
ATOM  28972  O5* G   A1371     236.342 146.685  -2.382  1.00 39.85      A16S
ATOM  28973  C5* G   A1371     237.626 147.167  -1.936  1.00 39.85      A16S
ATOM  28974  C4* G   A1371     238.748 146.373  -2.567  1.00 39.85      A16S
ATOM  28975  O4* G   A1371     238.755 145.016  -2.062  1.00 39.85      A16S
ATOM  28976  C1* G   A1371     239.162 144.132  -3.087  1.00 39.85      A16S
ATOM  28977  N9   G   A1371     238.103 143.150  -3.300  1.00 70.47      A16S
ATOM  28978  C4   G   A1371     238.112 142.128  -4.215  1.00 70.47      A16S
ATOM  28979  N3   G   A1371     239.113 141.843  -5.070  1.00 70.47      A16S
ATOM  28980  C2   G   A1371     238.819 140.825  -5.850  1.00 70.47      A16S
ATOM  28981  N2   G   A1371     239.708 140.405  -6.757  1.00 70.47      A16S
ATOM  28982  N1   G   A1371     237.632 140.143  -5.803  1.00 70.47      A16S
ATOM  28983  C6   G   A1371     236.584 140.417  -4.929  1.00 70.47      A16S
ATOM  28984  O6   G   A1371     235.542 139.737  -4.974  1.00 70.47      A16S
ATOM  28985  C5   G   A1371     236.893 141.504  -4.078  1.00 70.47      A16S
ATOM  28986  N7   G   A1371     236.142 142.103  -3.079  1.00 70.47      A16S
ATOM  28987  C8   G   A1371     236.899 143.071  -2.645  1.00 70.47      A16S
ATOM  28988  C2* G   A1371     239.480 144.970  -4.332  1.00 39.85      A16S
ATOM  28989  O2* G   A1371     240.868 145.215  -4.367  1.00 39.85      A16S
ATOM  28990  C3* G   A1371     238.691 146.243  -4.076  1.00 39.85      A16S
ATOM  28991  O3* G   A1371     239.331 147.356  -4.661  1.00 39.85      A16S
ATOM  28992  P    U   A1372     238.820 147.915  -6.068  1.00 45.06      A16S
ATOM  28993  O1P U   A1372     239.670 149.080  -6.429  1.00 76.69      A16S
ATOM  28994  O2P U   A1372     237.348 148.087  -5.975  1.00 76.69      A16S
ATOM  28995  O5* U   A1372     239.151 146.731  -7.081  1.00 45.06      A16S
ATOM  28996  C5* U   A1372     240.516 146.385  -7.363  1.00 45.06      A16S
ATOM  28997  C4* U   A1372     240.610 145.282  -8.395  1.00 45.06      A16S
ATOM  28998  O4* U   A1372     240.323 143.992  -7.800  1.00 45.06      A16S
ATOM  28999  C1* U   A1372     239.701 143.159  -8.767  1.00 45.06      A16S
ATOM  29000  N1   U   A1372     238.338 142.828  -8.308  1.00 76.69      A16S
ATOM  29001  C6   U   A1372     237.718 143.542  -7.310  1.00 76.69      A16S
ATOM  29002  C2   U   A1372     237.685 141.781  -8.931  1.00 76.69      A16S
ATOM  29003  O2   U   A1372     238.207 141.101  -9.801  1.00 76.69      A16S
ATOM  29004  N3   U   A1372     236.400 141.559  -8.498  1.00 76.69      A16S
ATOM  29005  C4   U   A1372     235.719 142.252  -7.522  1.00 76.69      A16S
ATOM  29006  O4   U   A1372     234.542 141.973  -7.283  1.00 76.69      A16S
ATOM  29007  C5   U   A1372     236.469 143.295  -6.910  1.00 76.69      A16S
ATOM  29008  C2* U   A1372     239.667 143.938 -10.087  1.00 45.06      A16S
ATOM  29009  O2* U   A1372     240.800 143.633 -10.876  1.00 45.06      A16S
ATOM  29010  C3* U   A1372     239.702 145.378  -9.607  1.00 45.06      A16S
ATOM  29011  O3* U   A1372     240.238 146.214 -10.613  1.00 45.06      A16S
ATOM  29012  P    G   A1373     239.266 146.841 -11.726  1.00 41.13      A16S
ATOM  29013  O1P G   A1373     240.090 147.198 -12.908  1.00 88.40      A16S
ATOM  29014  O2P G   A1373     238.396 147.870 -11.108  1.00 88.40      A16S
ATOM  29015  O5* G   A1373     238.337 145.619 -12.139  1.00 41.13      A16S
ATOM  29016  C5* G   A1373     238.836 144.541 -12.953  1.00 41.13      A16S
ATOM  29017  C4* G   A1373     237.744 143.524 -13.192  1.00 41.13      A16S
ATOM  29018  O4* G   A1373     237.340 142.934 -11.928  1.00 41.13      A16S
ATOM  29019  C1* G   A1373     235.953 142.664 -11.951  1.00 41.13      A16S
ATOM  29020  N9   G   A1373     235.310 143.488 -10.931  1.00 88.40      A16S
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ATOM  29021  C4  G  A1373     234.211 143.146 -10.185  1.00 88.40      A16S
ATOM  29022  N3  G  A1373     233.568 141.964 -10.224  1.00 88.40      A16S
ATOM  29023  C2  G  A1373     232.539 141.938  -9.407  1.00 88.40      A16S
ATOM  29024  N2  G  A1373     231.792 140.833  -9.315  1.00 88.40      A16S
ATOM  29025  N1  G  A1373     232.163 142.993  -8.617  1.00 88.40      A16S
ATOM  29026  C6  G  A1373     232.802 144.222  -8.565  1.00 88.40      A16S
ATOM  29027  O6  G  A1373     232.363 145.111  -7.830  1.00 88.40      A16S
ATOM  29028  C5  G  A1373     233.920 144.259  -9.429  1.00 88.40      A16S
ATOM  29029  N7  G  A1373     234.838 145.270  -9.670  1.00 88.40      A16S
ATOM  29030  C8  G  A1373     235.648 144.766 -10.559  1.00 88.40      A16S
ATOM  29031  C2* G  A1373     235.440 143.031 -13.341  1.00 41.13      A16S
ATOM  29032  O2* G  A1373     235.502 141.915 -14.197  1.00 41.13      A16S
ATOM  29033  C3* G  A1373     236.451 144.071 -13.766  1.00 41.13      A16S
ATOM  29034  O3* G  A1373     236.490 144.190 -15.163  1.00 41.13      A16S
ATOM  29035  P   A  A1374     235.287 144.931 -15.911  1.00 35.57      A16S
ATOM  29036  O1P A  A1374     235.664 145.138 -17.340  1.00 79.26      A16S
ATOM  29037  O2P A  A1374     234.897 146.093 -15.088  1.00 79.26      A16S
ATOM  29038  O5* A  A1374     234.111 143.868 -15.805  1.00 35.57      A16S
ATOM  29039  C5* A  A1374     233.371 143.471 -16.970  1.00 35.57      A16S
ATOM  29040  C4* A  A1374     233.949 142.198 -17.541  1.00 35.57      A16S
ATOM  29041  O4* A  A1374     233.994 141.170 -16.523  1.00 35.57      A16S
ATOM  29042  C1* A  A1374     233.727 139.911 -17.107  1.00 35.57      A16S
ATOM  29043  N9  A  A1374     232.555 139.338 -16.438  1.00 79.26      A16S
ATOM  29044  C4  A  A1374     231.934 138.144 -16.721  1.00 79.26      A16S
ATOM  29045  N3  A  A1374     232.265 137.257 -17.672  1.00 79.26      A16S
ATOM  29046  C2  A  A1374     231.433 136.221 -17.658  1.00 79.26      A16S
ATOM  29047  N1  A  A1374     230.383 135.986 -16.866  1.00 79.26      A16S
ATOM  29048  C6  A  A1374     230.073 136.895 -15.924  1.00 79.26      A16S
ATOM  29049  N6  A  A1374     229.019 136.657 -15.140  1.00 79.26      A16S
ATOM  29050  C5  A  A1374     230.886 138.043 -15.831  1.00 79.26      A16S
ATOM  29051  N7  A  A1374     230.848 139.148 -14.998  1.00 79.26      A16S
ATOM  29052  C8  A  A1374     231.853 139.882 -15.398  1.00 79.26      A16S
ATOM  29053  C2* A  A1374     233.564 140.130 -18.614  1.00 35.57      A16S
ATOM  29054  O2* A  A1374     234.813 139.960 -19.247  1.00 35.57      A16S
ATOM  29055  C3* A  A1374     233.156 141.585 -18.671  1.00 35.57      A16S
ATOM  29056  O3* A  A1374     233.533 142.157 -19.894  1.00 35.57      A16S
ATOM  29057  P   A  A1375     232.474 142.202 -21.086  1.00 37.64      A16S
ATOM  29058  O1P A  A1375     233.127 142.777 -22.299  1.00 51.46      A16S
ATOM  29059  O2P A  A1375     231.263 142.857 -20.528  1.00 51.46      A16S
ATOM  29060  O5* A  A1375     232.155 140.660 -21.344  1.00 37.64      A16S
ATOM  29061  C5* A  A1375     233.138 139.800 -21.941  1.00 37.64      A16S
ATOM  29062  C4* A  A1375     232.561 138.431 -22.197  1.00 37.64      A16S
ATOM  29063  O4* A  A1375     232.259 137.787 -20.938  1.00 37.64      A16S
ATOM  29064  C1* A  A1375     231.093 136.998 -21.077  1.00 37.64      A16S
ATOM  29065  N9  A  A1375     230.089 137.497 -20.132  1.00 51.46      A16S
ATOM  29066  C4  A  A1375     228.910 136.878 -19.785  1.00 51.46      A16S
ATOM  29067  N3  A  A1375     228.429 135.713 -20.251  1.00 51.46      A16S
ATOM  29068  C2  A  A1375     227.261 135.428 -19.685  1.00 51.46      A16S
ATOM  29069  N1  A  A1375     226.572 136.120 -18.774  1.00 51.46      A16S
ATOM  29070  C6  A  A1375     227.082 137.287 -18.329  1.00 51.46      A16S
ATOM  29071  N6  A  A1375     226.394 137.975 -17.420  1.00 51.46      A16S
ATOM  29072  C5  A  A1375     228.312 137.704 -18.854  1.00 51.46      A16S
ATOM  29073  N7  A  A1375     229.086 138.828 -18.630  1.00 51.46      A16S
ATOM  29074  C8  A  A1375     230.123 138.660 -19.410  1.00 51.46      A16S
ATOM  29075  C2* A  A1375     230.647 137.076 -22.540  1.00 37.64      A16S
ATOM  29076  O2* A  A1375     231.185 136.003 -23.284  1.00 37.64      A16S
ATOM  29077  C3* A  A1375     231.258 138.395 -22.976  1.00 37.64      A16S
ATOM  29078  O3* A  A1375     231.480 138.413 -24.375  1.00 37.64      A16S
ATOM  29079  P   U  A1376     230.475 139.231 -25.331  1.00 36.04      A16S
ATOM  29080  O1P U  A1376     230.984 139.080 -26.729  1.00 58.14      A16S
ATOM  29081  O2P U  A1376     230.251 140.600 -24.765  1.00 58.14      A16S
ATOM  29082  O5* U  A1376     229.120 138.410 -25.211  1.00 36.04      A16S
ATOM  29083  C5* U  A1376     229.104 136.983 -25.422  1.00 36.04      A16S
ATOM  29084  C4* U  A1376     227.771 136.401 -25.013  1.00 36.04      A16S
ATOM  29085  O4* U  A1376     227.697 136.244 -23.573  1.00 36.04      A16S
ATOM  29086  C1* U  A1376     226.365 136.462 -23.153  1.00 36.04      A16S
ATOM  29087  N1  U  A1376     226.341 137.581 -22.197  1.00 58.14      A16S
ATOM  29088  C6  U  A1376     227.340 138.515 -22.162  1.00 58.14      A16S
ATOM  29089  C2  U  A1376     225.265 137.670 -21.333  1.00 58.14      A16S
ATOM  29090  O2  U  A1376     224.351 136.866 -21.315  1.00 58.14      A16S
ATOM  29091  N3  U  A1376     225.294 138.741 -20.484  1.00 58.14      A16S
ATOM  29092  C4  U  A1376     226.261 139.705 -20.402  1.00 58.14      A16S
ATOM  29093  O4  U  A1376     226.166 140.580 -19.543  1.00 58.14      A16S
ATOM  29094  C5  U  A1376     227.337 139.545 -21.320  1.00 58.14      A16S
ATOM  29095  C2* U  A1376     225.513 136.736 -24.397  1.00 36.04      A16S
ATOM  29096  O2* U  A1376     224.892 135.547 -24.851  1.00 36.04      A16S
ATOM  29097  C3* U  A1376     226.553 137.228 -25.386  1.00 36.04      A16S
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ATOM  29098  O3* U   A1376     226.143 137.028 -26.732  1.00 36.04       A16S
ATOM  29099  P    A   A1377     225.054 138.016 -27.377  1.00 41.07       A16S
ATOM  29100  O1P A   A1377     224.930 137.711 -28.834  1.00 49.48       A16S
ATOM  29101  O2P A   A1377     225.368 139.406 -26.939  1.00 49.48       A16S
ATOM  29102  O5* A   A1377     223.692 137.582 -26.672  1.00 41.07       A16S
ATOM  29103  C5* A   A1377     222.959 136.432 -27.120  1.00 41.07       A16S
ATOM  29104  C4* A   A1377     221.687 136.268 -26.318  1.00 41.07       A16S
ATOM  29105  O4* A   A1377     222.015 136.081 -24.915  1.00 41.07       A16S
ATOM  29106  C1* A   A1377     220.953 136.566 -24.104  1.00 41.07       A16S
ATOM  29107  N9   A   A1377     221.441 137.652 -23.258  1.00 49.48       A16S
ATOM  29108  C4   A   A1377     221.083 137.897 -21.957  1.00 49.48       A16S
ATOM  29109  N3   A   A1377     220.274 137.163 -21.184  1.00 49.48       A16S
ATOM  29110  C2   A   A1377     220.118 137.742 -20.000  1.00 49.48       A16S
ATOM  29111  N1   A   A1377     220.649 138.870 -19.535  1.00 49.48       A16S
ATOM  29112  C6   A   A1377     221.470 139.567 -20.339  1.00 49.48       A16S
ATOM  29113  N6   A   A1377     222.025 140.681 -19.876  1.00 49.48       A16S
ATOM  29114  C5   A   A1377     221.701 139.077 -21.613  1.00 49.48       A16S
ATOM  29115  N7   A   A1377     222.467 139.552 -22.659  1.00 49.48       A16S
ATOM  29116  C8   A   A1377     222.291 138.667 -23.605  1.00 49.48       A16S
ATOM  29117  C2* A   A1377     219.893 137.130 -25.040  1.00 41.07       A16S
ATOM  29118  O2* A   A1377     218.892 136.161 -25.260  1.00 41.07       A16S
ATOM  29119  C3* A   A1377     220.709 137.427 -26.287  1.00 41.07       A16S
ATOM  29120  O3* A   A1377     219.854 137.503 -27.394  1.00 41.07       A16S
ATOM  29121  P    C   A1378     218.819 138.720 -27.477  1.00 42.43       A16S
ATOM  29122  O1P C   A1378     219.651 139.941 -27.363  1.00 48.30       A16S
ATOM  29123  O2P C   A1378     217.705 138.493 -26.511  1.00 48.30       A16S
ATOM  29124  O5* C   A1378     218.245 138.658 -28.954  1.00 42.43       A16S
ATOM  29125  C5* C   A1378     219.012 139.172 -30.042  1.00 42.43       A16S
ATOM  29126  C4* C   A1378     218.959 138.222 -31.202  1.00 42.43       A16S
ATOM  29127  O4* C   A1378     219.699 137.012 -30.905  1.00 42.43       A16S
ATOM  29128  C1* C   A1378     219.081 135.914 -31.544  1.00 42.43       A16S
ATOM  29129  N1   C   A1378     218.903 134.814 -30.571  1.00 48.30       A16S
ATOM  29130  C6   C   A1378     219.055 135.029 -29.228  1.00 48.30       A16S
ATOM  29131  C2   C   A1378     218.596 133.526 -31.046  1.00 48.30       A16S
ATOM  29132  O2   C   A1378     218.416 133.356 -32.267  1.00 48.30       A16S
ATOM  29133  N3   C   A1378     218.494 132.499 -30.161  1.00 48.30       A16S
ATOM  29134  C4   C   A1378     218.664 132.722 -28.854  1.00 48.30       A16S
ATOM  29135  N4   C   A1378     218.562 131.681 -28.019  1.00 48.30       A16S
ATOM  29136  C5   C   A1378     218.946 134.022 -28.344  1.00 48.30       A16S
ATOM  29137  C2* C   A1378     217.817 136.424 -32.243  1.00 42.43       A16S
ATOM  29138  O2* C   A1378     218.126 136.646 -33.600  1.00 42.43       A16S
ATOM  29139  C3* C   A1378     217.564 137.746 -31.532  1.00 42.43       A16S
ATOM  29140  O3* C   A1378     216.904 138.701 -32.353  1.00 42.43       A16S
ATOM  29141  P    G   A1379     215.337 138.966 -32.143  1.00 78.10       A16S
ATOM  29142  O1P G   A1379     214.771 139.609 -33.353  1.00 35.76       A16S
ATOM  29143  O2P G   A1379     215.131 139.589 -30.810  1.00 35.76       A16S
ATOM  29144  O5* G   A1379     214.760 137.491 -32.114  1.00 78.10       A16S
ATOM  29145  C5* G   A1379     213.947 137.032 -31.040  1.00 78.10       A16S
ATOM  29146  C4* G   A1379     213.914 135.536 -31.059  1.00 78.10       A16S
ATOM  29147  O4* G   A1379     215.179 135.023 -30.573  1.00 78.10       A16S
ATOM  29148  C1* G   A1379     214.954 133.853 -29.808  1.00 78.10       A16S
ATOM  29149  N9   G   A1379     215.412 134.110 -28.444  1.00 35.76       A16S
ATOM  29150  C4   G   A1379     215.544 133.204 -27.417  1.00 35.76       A16S
ATOM  29151  N3   G   A1379     215.268 131.889 -27.475  1.00 35.76       A16S
ATOM  29152  C2   G   A1379     215.497 131.291 -26.315  1.00 35.76       A16S
ATOM  29153  N2   G   A1379     215.275 129.989 -26.182  1.00 35.76       A16S
ATOM  29154  N1   G   A1379     215.957 131.930 -25.198  1.00 35.76       A16S
ATOM  29155  C6   G   A1379     216.231 133.284 -25.119  1.00 35.76       A16S
ATOM  29156  O6   G   A1379     216.612 133.773 -24.053  1.00 35.76       A16S
ATOM  29157  C5   G   A1379     216.002 133.933 -26.345  1.00 35.76       A16S
ATOM  29158  N7   G   A1379     216.157 135.261 -26.685  1.00 35.76       A16S
ATOM  29159  C8   G   A1379     215.796 135.320 -27.936  1.00 35.76       A16S
ATOM  29160  C2* G   A1379     213.459 133.532 -29.903  1.00 78.10       A16S
ATOM  29161  O2* G   A1379     213.277 132.649 -30.994  1.00 78.10       A16S
ATOM  29162  C3* G   A1379     212.862 134.909 -30.176  1.00 78.10       A16S
ATOM  29163  O3* G   A1379     211.625 134.873 -30.886  1.00 78.10       A16S
ATOM  29164  P    U   A1380     210.231 134.853 -30.075  1.00 81.77       A16S
ATOM  29165  O1P U   A1380     209.143 134.900 -31.098  1.00 52.19       A16S
ATOM  29166  O2P U   A1380     210.239 135.856 -28.973  1.00 52.19       A16S
ATOM  29167  O5* U   A1380     210.222 133.408 -29.414  1.00 81.77       A16S
ATOM  29168  C5* U   A1380     210.293 132.238 -30.236  1.00 81.77       A16S
ATOM  29169  C4* U   A1380     210.116 131.022 -29.391  1.00 81.77       A16S
ATOM  29170  O4* U   A1380     211.261 130.907 -28.530  1.00 81.77       A16S
ATOM  29171  C1* U   A1380     210.855 130.474 -27.256  1.00 81.77       A16S
ATOM  29172  N1   U   A1380     211.542 131.304 -26.255  1.00 52.19       A16S
ATOM  29173  C6   U   A1380     211.940 132.583 -26.551  1.00 52.19       A16S
ATOM  29174  C2   U   A1380     211.820 130.744 -25.018  1.00 52.19       A16S
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ATOM  29175  O2  U   A1380     211.445 129.637 -24.682  1.00 52.19      A16S
ATOM  29176  N3  U   A1380     212.553 131.534 -24.178  1.00 52.19      A16S
ATOM  29177  C4  U   A1380     213.004 132.800 -24.422  1.00 52.19      A16S
ATOM  29178  O4  U   A1380     213.668 133.371 -23.564  1.00 52.19      A16S
ATOM  29179  C5  U   A1380     212.645 133.330 -25.701  1.00 52.19      A16S
ATOM  29180  C2* U   A1380     209.328 130.323 -27.233  1.00 81.77      A16S
ATOM  29181  O2* U   A1380     209.036 128.945 -27.280  1.00 81.77      A16S
ATOM  29182  C3* U   A1380     208.915 131.115 -28.476  1.00 81.77      A16S
ATOM  29183  O3* U   A1380     207.728 130.804 -29.252  1.00 81.77      A16S
ATOM  29184  P   U   A1381     207.063 129.323 -29.278  1.00 63.28      A16S
ATOM  29185  O1P U   A1381     205.947 129.476 -30.249  1.00100.81      A16S
ATOM  29186  O2P U   A1381     206.770 128.822 -27.915  1.00100.81      A16S
ATOM  29187  O5* U   A1381     208.131 128.350 -29.951  1.00 63.28      A16S
ATOM  29188  C5* U   A1381     207.715 127.466 -31.007  1.00 63.28      A16S
ATOM  29189  C4* U   A1381     208.552 126.203 -31.046  1.00 63.28      A16S
ATOM  29190  O4* U   A1381     209.897 126.489 -31.508  1.00 63.28      A16S
ATOM  29191  C1* U   A1381     210.786 125.518 -30.985  1.00 63.28      A16S
ATOM  29192  N1  U   A1381     211.896 126.190 -30.290  1.00100.81      A16S
ATOM  29193  C6  U   A1381     211.818 127.509 -29.906  1.00100.81      A16S
ATOM  29194  C2  U   A1381     213.036 125.444 -30.038  1.00100.81      A16S
ATOM  29195  O2  U   A1381     213.144 124.263 -30.341  1.00100.81      A16S
ATOM  29196  N3  U   A1381     214.045 126.130 -29.410  1.00100.81      A16S
ATOM  29197  C4  U   A1381     214.034 127.452 -29.013  1.00100.81      A16S
ATOM  29198  O4  U   A1381     215.052 127.948 -28.524  1.00100.81      A16S
ATOM  29199  C5  U   A1381     212.818 128.145 -29.292  1.00100.81      A16S
ATOM  29200  C2* U   A1381     209.980 124.570 -30.095  1.00 63.28      A16S
ATOM  29201  O2* U   A1381     209.649 123.421 -30.846  1.00 63.28      A16S
ATOM  29202  C3* U   A1381     208.743 125.401 -29.770  1.00 63.28      A16S
ATOM  29203  O3* U   A1381     207.641 124.542 -29.499  1.00 63.28      A16S
ATOM  29204  P   C   A1382     207.429 123.962 -28.009  1.00 48.69      A16S
ATOM  29205  O1P C   A1382     206.285 123.014 -28.048  1.00 77.38      A16S
ATOM  29206  O2P C   A1382     207.387 125.130 -27.082  1.00 77.38      A16S
ATOM  29207  O5* C   A1382     208.740 123.108 -27.703  1.00 48.69      A16S
ATOM  29208  C5* C   A1382     209.074 121.969 -28.503  1.00 48.69      A16S
ATOM  29209  C4* C   A1382     210.436 121.442 -28.130  1.00 48.69      A16S
ATOM  29210  O4* C   A1382     211.478 122.395 -28.465  1.00 48.69      A16S
ATOM  29211  C1* C   A1382     212.531 122.300 -27.513  1.00 48.69      A16S
ATOM  29212  N1  C   A1382     212.765 123.629 -26.904  1.00 77.38      A16S
ATOM  29213  C6  C   A1382     211.981 124.702 -27.224  1.00 77.38      A16S
ATOM  29214  C2  C   A1382     213.814 123.775 -25.980  1.00 77.38      A16S
ATOM  29215  O2  C   A1382     214.524 122.789 -25.700  1.00 77.38      A16S
ATOM  29216  N3  C   A1382     214.028 124.981 -25.415  1.00 77.38      A16S
ATOM  29217  C4  C   A1382     213.250 126.014 -25.732  1.00 77.38      A16S
ATOM  29218  N4  C   A1382     213.495 127.179 -25.133  1.00 77.38      A16S
ATOM  29219  C5  C   A1382     212.188 125.899 -26.670  1.00 77.38      A16S
ATOM  29220  C2* C   A1382     212.136 121.233 -26.487  1.00 48.69      A16S
ATOM  29221  O2* C   A1382     212.730 120.000 -26.816  1.00 48.69      A16S
ATOM  29222  C3* C   A1382     210.630 121.187 -26.655  1.00 48.69      A16S
ATOM  29223  O3* C   A1382     210.100 119.944 -26.299  1.00 48.69      A16S
ATOM  29224  P   C   A1383     209.071 119.865 -25.078  1.00 48.39      A16S
ATOM  29225  O1P C   A1383     208.228 118.662 -25.315  1.00 40.29      A16S
ATOM  29226  O2P C   A1383     208.421 121.213 -24.937  1.00 40.29      A16S
ATOM  29227  O5* C   A1383     210.000 119.583 -23.819  1.00 48.39      A16S
ATOM  29228  C5* C   A1383     210.791 118.397 -23.767  1.00 48.39      A16S
ATOM  29229  C4* C   A1383     211.837 118.523 -22.706  1.00 48.39      A16S
ATOM  29230  O4* C   A1383     212.758 119.578 -23.059  1.00 48.39      A16S
ATOM  29231  C1* C   A1383     213.188 120.242 -21.881  1.00 48.39      A16S
ATOM  29232  N1  C   A1383     212.864 121.677 -21.979  1.00 40.29      A16S
ATOM  29233  C6  C   A1383     212.024 122.161 -22.944  1.00 40.29      A16S
ATOM  29234  C2  C   A1383     213.446 122.540 -21.064  1.00 40.29      A16S
ATOM  29235  O2  C   A1383     214.186 122.062 -20.186  1.00 40.29      A16S
ATOM  29236  N3  C   A1383     213.194 123.866 -21.148  1.00 40.29      A16S
ATOM  29237  C4  C   A1383     212.391 124.333 -22.099  1.00 40.29      A16S
ATOM  29238  N4  C   A1383     212.189 125.648 -22.156  1.00 40.29      A16S
ATOM  29239  C5  C   A1383     211.764 123.471 -23.039  1.00 40.29      A16S
ATOM  29240  C2* C   A1383     212.493 119.590 -20.692  1.00 48.39      A16S
ATOM  29241  O2* C   A1383     213.320 118.634 -20.069  1.00 48.39      A16S
ATOM  29242  C3* C   A1383     211.299 118.955 -21.365  1.00 48.39      A16S
ATOM  29243  O3* C   A1383     210.804 117.904 -20.602  1.00 48.39      A16S
ATOM  29244  P   C   A1384     209.605 118.206 -19.610  1.00 56.00      A16S
ATOM  29245  O1P C   A1384     209.251 116.957 -18.903  1.00 30.54      A16S
ATOM  29246  O2P C   A1384     208.583 118.933 -20.414  1.00 30.54      A16S
ATOM  29247  O5* C   A1384     210.237 119.201 -18.545  1.00 56.00      A16S
ATOM  29248  C5* C   A1384     210.999 118.697 -17.442  1.00 56.00      A16S
ATOM  29249  C4* C   A1384     211.179 119.768 -16.403  1.00 56.00      A16S
ATOM  29250  O4* C   A1384     211.944 120.854 -16.979  1.00 56.00      A16S
ATOM  29251  C1* C   A1384     211.515 122.090 -16.432  1.00 56.00      A16S
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ATOM  29252  N1   C   A1384     210.974 122.938 -17.511  1.00 30.54      A16S
ATOM  29253  C6   C   A1384     210.681 122.415 -18.740  1.00 30.54      A16S
ATOM  29254  C2   C   A1384     210.761 124.314 -17.253  1.00 30.54      A16S
ATOM  29255  O2   C   A1384     211.027 124.766 -16.122  1.00 30.54      A16S
ATOM  29256  N3   C   A1384     210.271 125.103 -18.242  1.00 30.54      A16S
ATOM  29257  C4   C   A1384     210.005 124.577 -19.444  1.00 30.54      A16S
ATOM  29258  N4   C   A1384     209.551 125.392 -20.401  1.00 30.54      A16S
ATOM  29259  C5   C   A1384     210.201 123.188 -19.724  1.00 30.54      A16S
ATOM  29260  C2*  C   A1384     210.455 121.773 -15.391  1.00 56.00      A16S
ATOM  29261  O2*  C   A1384     211.105 121.651 -14.141  1.00 56.00      A16S
ATOM  29262  C3*  C   A1384     209.918 120.451 -15.916  1.00 56.00      A16S
ATOM  29263  O3*  C   A1384     209.212 119.716 -14.937  1.00 56.00      A16S
ATOM  29264  P    G   A1385     207.615 119.911 -14.810  1.00 62.57      A16S
ATOM  29265  O1P  G   A1385     207.146 118.761 -13.980  1.00 30.03      A16S
ATOM  29266  O2P  G   A1385     207.015 120.162 -16.165  1.00 30.03      A16S
ATOM  29267  O5*  G   A1385     207.435 121.262 -13.990  1.00 62.57      A16S
ATOM  29268  C5*  G   A1385     207.756 121.320 -12.606  1.00 62.57      A16S
ATOM  29269  C4*  G   A1385     207.623 122.731 -12.109  1.00 62.57      A16S
ATOM  29270  O4*  G   A1385     208.602 123.573 -12.768  1.00 62.57      A16S
ATOM  29271  C1*  G   A1385     208.055 124.858 -13.008  1.00 62.57      A16S
ATOM  29272  N9   G   A1385     207.885 124.994 -14.445  1.00 30.03      A16S
ATOM  29273  C4   G   A1385     207.756 126.153 -15.163  1.00 30.03      A16S
ATOM  29274  N3   G   A1385     207.807 127.402 -14.671  1.00 30.03      A16S
ATOM  29275  C2   G   A1385     207.633 128.309 -15.627  1.00 30.03      A16S
ATOM  29276  N2   G   A1385     207.691 129.616 -15.341  1.00 30.03      A16S
ATOM  29277  N1   G   A1385     207.399 128.001 -16.940  1.00 30.03      A16S
ATOM  29278  C6   G   A1385     207.320 126.716 -17.448  1.00 30.03      A16S
ATOM  29279  O6   G   A1385     207.057 126.541 -18.629  1.00 30.03      A16S
ATOM  29280  C5   G   A1385     207.541 125.752 -16.461  1.00 30.03      A16S
ATOM  29281  N7   G   A1385     207.558 124.375 -16.561  1.00 30.03      A16S
ATOM  29282  C8   G   A1385     207.773 123.967 -15.344  1.00 30.03      A16S
ATOM  29283  C2*  G   A1385     206.678 124.879 -12.357  1.00 62.57      A16S
ATOM  29284  O2*  G   A1385     206.794 125.377 -11.042  1.00 62.57      A16S
ATOM  29285  C3*  G   A1385     206.306 123.405 -12.421  1.00 62.57      A16S
ATOM  29286  O3*  G   A1385     205.258 123.020 -11.553  1.00 62.57      A16S
ATOM  29287  P    G   A1386     203.767 122.908 -12.140  1.00 65.73      A16S
ATOM  29288  O1P  G   A1386     202.973 122.247 -11.076  1.00 50.18      A16S
ATOM  29289  O2P  G   A1386     203.791 122.319 -13.514  1.00 50.18      A16S
ATOM  29290  O5*  G   A1386     203.325 124.434 -12.266  1.00 65.73      A16S
ATOM  29291  C5*  G   A1386     203.473 125.316 -11.141  1.00 65.73      A16S
ATOM  29292  C4*  G   A1386     203.421 126.759 -11.573  1.00 65.73      A16S
ATOM  29293  O4*  G   A1386     204.507 127.047 -12.484  1.00 65.73      A16S
ATOM  29294  C1*  G   A1386     204.127 128.102 -13.347  1.00 65.73      A16S
ATOM  29295  N9   G   A1386     204.230 127.658 -14.727  1.00 50.18      A16S
ATOM  29296  C4   G   A1386     204.066 128.452 -15.828  1.00 50.18      A16S
ATOM  29297  N3   G   A1386     203.810 129.772 -15.812  1.00 50.18      A16S
ATOM  29298  C2   G   A1386     203.680 130.265 -17.025  1.00 50.18      A16S
ATOM  29299  N2   G   A1386     203.424 131.566 -17.185  1.00 50.18      A16S
ATOM  29300  N1   G   A1386     203.791 129.518 -18.168  1.00 50.18      A16S
ATOM  29301  C6   G   A1386     204.055 128.152 -18.206  1.00 50.18      A16S
ATOM  29302  O6   G   A1386     204.128 127.564 -19.295  1.00 50.18      A16S
ATOM  29303  C5   G   A1386     204.201 127.616 -16.907  1.00 50.18      A16S
ATOM  29304  N7   G   A1386     204.465 126.319 -16.493  1.00 50.18      A16S
ATOM  29305  C8   G   A1386     204.477 126.393 -15.191  1.00 50.18      A16S
ATOM  29306  C2*  G   A1386     202.680 128.466 -13.037  1.00 65.73      A16S
ATOM  29307  O2*  G   A1386     202.639 129.626 -12.234  1.00 65.73      A16S
ATOM  29308  C3*  G   A1386     202.191 127.211 -12.333  1.00 65.73      A16S
ATOM  29309  O3*  G   A1386     201.092 127.500 -11.495  1.00 65.73      A16S
ATOM  29310  P    G   A1387     199.615 127.505 -12.122  1.00 37.29      A16S
ATOM  29311  O1P  G   A1387     198.668 127.389 -10.989  1.00 41.09      A16S
ATOM  29312  O2P  G   A1387     199.596 126.485 -13.209  1.00 41.09      A16S
ATOM  29313  O5*  G   A1387     199.457 128.957 -12.756  1.00 37.29      A16S
ATOM  29314  C5*  G   A1387     199.536 130.111 -11.925  1.00 37.29      A16S
ATOM  29315  C4*  G   A1387     199.304 131.342 -12.736  1.00 37.29      A16S
ATOM  29316  C4* G   A1387     200.390 131.490 -13.669  1.00 37.29      A16S
ATOM  29317  C1* G   A1387     199.906 132.049 -14.882  1.00 37.29      A16S
ATOM  29318  N9   G   A1387     200.140 131.096 -15.964  1.00 41.09      A16S
ATOM  29319  C4   G   A1387     200.018 131.353 -17.302  1.00 41.09      A16S
ATOM  29320  N3   G   A1387     199.673 132.530 -17.846  1.00 41.09      A16S
ATOM  29321  C2   G   A1387     199.615 132.463 -19.157  1.00 41.09      A16S
ATOM  29322  N2   G   A1387     199.278 133.540 -19.861  1.00 41.09      A16S
ATOM  29323  N1   G   A1387     199.883 131.336 -19.877  1.00 41.09      A16S
ATOM  29324  C6   G   A1387     200.256 130.116 -19.335  1.00 41.09      A16S
ATOM  29325  O6   G   A1387     200.501 129.163 -20.077  1.00 41.09      A16S
ATOM  29326  C5   G   A1387     200.306 130.167 -17.930  1.00 41.09      A16S
ATOM  29327  N7   G   A1387     200.609 129.179 -17.007  1.00 41.09      A16S
ATOM  29328  C8   G   A1387     200.501 129.775 -15.854  1.00 41.09      A16S
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ATOM  29329  C2* G   A1387     198.410 132.311 -14.708  1.00 37.29      A16S
ATOM  29330  O2* G   A1387     198.160 133.670 -14.379  1.00 37.29      A16S
ATOM  29331  C3* G   A1387     198.065 131.319 -13.609  1.00 37.29      A16S
ATOM  29332  O3* G   A1387     196.880 131.664 -12.916  1.00 37.29      A16S
ATOM  29333  P    C   A1388     195.513 130.905 -13.274  1.00 38.33      A16S
ATOM  29334  O1P C   A1388     194.571 131.118 -12.140  1.00 55.71      A16S
ATOM  29335  O2P C   A1388     195.906 129.510 -13.631  1.00 55.71      A16S
ATOM  29336  O5* C   A1388     194.994 131.705 -14.552  1.00 38.33      A16S
ATOM  29337  C5* C   A1388     194.766 133.110 -14.457  1.00 38.33      A16S
ATOM  29338  C4* C   A1388     194.353 133.677 -15.787  1.00 38.33      A16S
ATOM  29339  O4* C   A1388     195.493 133.764 -16.677  1.00 38.33      A16S
ATOM  29340  C1* C   A1388     195.077 133.509 -18.014  1.00 38.33      A16S
ATOM  29341  N1   C   A1388     195.726 132.261 -18.455  1.00 55.71      A16S
ATOM  29342  C6   C   A1388     196.123 131.320 -17.544  1.00 55.71      A16S
ATOM  29343  C2   C   A1388     195.923 132.049 -19.810  1.00 55.71      A16S
ATOM  29344  O2   C   A1388     195.549 132.912 -20.605  1.00 55.71      A16S
ATOM  29345  N3   C   A1388     196.516 130.905 -20.220  1.00 55.71      A16S
ATOM  29346  C4   C   A1388     196.900 129.992 -19.322  1.00 55.71      A16S
ATOM  29347  N4   C   A1388     197.482 128.871 -19.764  1.00 55.71      A16S
ATOM  29348  C5   C   A1388     196.707 130.184 -17.931  1.00 55.71      A16S
ATOM  29349  C2* C   A1388     193.554 133.354 -18.005  1.00 38.33      A16S
ATOM  29350  O2* C   A1388     192.902 134.572 -18.347  1.00 38.33      A16S
ATOM  29351  C3* C   A1388     193.318 132.889 -16.570  1.00 38.33      A16S
ATOM  29352  O3* C   A1388     191.992 133.095 -16.123  1.00 38.33      A16S
ATOM  29353  P    C   A1389     190.941 131.894 -16.237  1.00 43.60      A16S
ATOM  29354  O1P C   A1389     189.771 132.263 -15.408  1.00 51.95      A16S
ATOM  29355  O2P C   A1389     191.667 130.627 -15.948  1.00 51.95      A16S
ATOM  29356  O5* C   A1389     190.527 131.940 -17.773  1.00 43.60      A16S
ATOM  29357  C5* C   A1389     189.864 133.096 -18.278  1.00 43.60      A16S
ATOM  29358  C4* C   A1389     189.775 133.048 -19.774  1.00 43.60      A16S
ATOM  29359  O4* C   A1389     191.111 133.080 -20.319  1.00 43.60      A16S
ATOM  29360  C1* C   A1389     191.158 132.304 -21.508  1.00 43.60      A16S
ATOM  29361  N1   C   A1389     192.012 131.132 -21.260  1.00 51.95      A16S
ATOM  29362  C6   C   A1389     192.249 130.692 -19.991  1.00 51.95      A16S
ATOM  29363  C2   C   A1389     192.553 130.458 -22.350  1.00 51.95      A16S
ATOM  29364  O2   C   A1389     192.344 130.904 -23.491  1.00 51.95      A16S
ATOM  29365  N3   C   A1389     193.283 129.344 -22.139  1.00 51.95      A16S
ATOM  29366  C4   C   A1389     193.483 128.908 -20.898  1.00 51.95      A16S
ATOM  29367  N4   C   A1389     194.182 127.786 -20.729  1.00 51.95      A16S
ATOM  29368  C5   C   A1389     192.970 129.597 -19.769  1.00 51.95      A16S
ATOM  29369  C2* C   A1389     189.740 131.827 -21.794  1.00 43.60      A16S
ATOM  29370  O2* C   A1389     189.084 132.736 -22.653  1.00 43.60      A16S
ATOM  29371  C3* C   A1389     189.158 131.806 -20.392  1.00 43.60      A16S
ATOM  29372  O3* C   A1389     187.747 131.797 -20.401  1.00 43.60      A16S
ATOM  29373  P    U   A1390     186.982 130.408 -20.167  1.00 50.14      A16S
ATOM  29374  O1P U   A1390     185.537 130.730 -20.163  1.00 39.40      A16S
ATOM  29375  O2P U   A1390     187.600 129.730 -18.993  1.00 39.40      A16S
ATOM  29376  O5* U   A1390     187.311 129.549 -21.469  1.00 50.14      A16S
ATOM  29377  C5* U   A1390     187.046 130.090 -22.778  1.00 50.14      A16S
ATOM  29378  C4* U   A1390     187.639 129.218 -23.865  1.00 50.14      A16S
ATOM  29379  O4* U   A1390     189.083 129.153 -23.726  1.00 50.14      A16S
ATOM  29380  C1* U   A1390     189.552 127.894 -24.178  1.00 50.14      A16S
ATOM  29381  N1   U   A1390     190.236 127.201 -23.072  1.00 39.40      A16S
ATOM  29382  C6   U   A1390     189.894 127.395 -21.764  1.00 39.40      A16S
ATOM  29383  C2   U   A1390     191.236 126.328 -23.405  1.00 39.40      A16S
ATOM  29384  O2   U   A1390     191.577 126.138 -24.544  1.00 39.40      A16S
ATOM  29385  N3   U   A1390     191.829 125.679 -22.356  1.00 39.40      A16S
ATOM  29386  C4   U   A1390     191.537 125.812 -21.029  1.00 39.40      A16S
ATOM  29387  O4   U   A1390     192.144 125.125 -20.198  1.00 39.40      A16S
ATOM  29388  C5   U   A1390     190.493 126.748 -20.755  1.00 39.40      A16S
ATOM  29389  C2* U   A1390     188.341 127.117 -24.686  1.00 50.14      A16S
ATOM  29390  O2* U   A1390     188.213 127.337 -26.076  1.00 50.14      A16S
ATOM  29391  C3* U   A1390     187.215 127.764 -23.894  1.00 50.14      A16S
ATOM  29392  O3* U   A1390     185.953 127.572 -24.495  1.00 50.14      A16S
ATOM  29393  P    U   A1391     185.008 126.387 -23.959  1.00 44.94      A16S
ATOM  29394  O1P U   A1391     183.651 126.607 -24.529  1.00 41.68      A16S
ATOM  29395  O2P U   A1391     185.178 126.273 -22.479  1.00 41.68      A16S
ATOM  29396  O5* U   A1391     185.641 125.070 -24.605  1.00 44.94      A16S
ATOM  29397  C5* U   A1391     185.764 124.915 -26.040  1.00 44.94      A16S
ATOM  29398  C4* U   A1391     186.532 123.657 -26.368  1.00 44.94      A16S
ATOM  29399  O4* U   A1391     187.906 123.817 -25.965  1.00 44.94      A16S
ATOM  29400  C1* U   A1391     188.413 122.587 -25.488  1.00 44.94      A16S
ATOM  29401  N1   U   A1391     188.913 122.790 -24.122  1.00 41.68      A16S
ATOM  29402  C6   U   A1391     188.612 123.924 -23.426  1.00 41.68      A16S
ATOM  29403  C2   U   A1391     189.688 121.800 -23.556  1.00 41.68      A16S
ATOM  29404  O2   U   A1391     190.013 120.790 -24.156  1.00 41.68      A16S
ATOM  29405  N3   U   A1391     190.073 122.039 -22.262  1.00 41.68      A16S
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ATOM  29406  C4   U   A1391     189.779 123.149 -21.506  1.00 41.68      A16S
ATOM  29407  O4   U   A1391     190.131 123.201 -20.329  1.00 41.68      A16S
ATOM  29408  C5   U   A1391     189.010 124.132 -22.178  1.00 41.68      A16S
ATOM  29409  C2*  U   A1391     187.305 121.540 -25.594  1.00 44.94      A16S
ATOM  29410  O2*  U   A1391     187.523 120.748 -26.741  1.00 44.94      A16S
ATOM  29411  C3*  U   A1391     186.052 122.404 -25.663  1.00 44.94      A16S
ATOM  29412  O3*  U   A1391     185.019 121.792 -26.422  1.00 44.94      A16S
ATOM  29413  P    G   A1392     183.947 120.839 -25.698  1.00 39.13      A16S
ATOM  29414  O1P  G   A1392     182.839 120.619 -26.668  1.00 47.31      A16S
ATOM  29415  O2P  G   A1392     183.647 121.362 -24.338  1.00 47.31      A16S
ATOM  29416  O5*  G   A1392     184.726 119.468 -25.522  1.00 39.13      A16S
ATOM  29417  C5*  G   A1392     185.059 118.680 -26.662  1.00 39.13      A16S
ATOM  29418  C4*  G   A1392     185.872 117.490 -26.244  1.00 39.13      A16S
ATOM  29419  O4*  G   A1392     187.209 117.905 -25.893  1.00 39.13      A16S
ATOM  29420  C1*  G   A1392     187.676 117.137 -24.800  1.00 39.13      A16S
ATOM  29421  N9   G   A1392     187.874 118.056 -23.690  1.00 47.31      A16S
ATOM  29422  C4   G   A1392     188.758 117.930 -22.654  1.00 47.31      A16S
ATOM  29423  N3   G   A1392     189.603 116.906 -22.454  1.00 47.31      A16S
ATOM  29424  C2   G   A1392     190.331 117.082 -21.370  1.00 47.31      A16S
ATOM  29425  N2   G   A1392     191.221 116.167 -21.012  1.00 47.31      A16S
ATOM  29426  N1   G   A1392     190.240 118.172 -20.552  1.00 47.31      A16S
ATOM  29427  C6   G   A1392     189.374 119.238 -20.741  1.00 47.31      A16S
ATOM  29428  O6   G   A1392     189.364 120.179 -19.940  1.00 47.31      A16S
ATOM  29429  C5   G   A1392     188.588 119.064 -21.893  1.00 47.31      A16S
ATOM  29430  N7   G   A1392     187.607 119.879 -22.434  1.00 47.31      A16S
ATOM  29431  C8   G   A1392     187.208 119.239 -23.493  1.00 47.31      A16S
ATOM  29432  C2*  G   A1392     186.613 116.088 -24.495  1.00 39.13      A16S
ATOM  29433  O2*  G   A1392     186.888 114.934 -25.255  1.00 39.13      A16S
ATOM  29434  C3*  G   A1392     185.363 116.768 -25.016  1.00 39.13      A16S
ATOM  29435  O3*  G   A1392     184.377 115.831 -25.359  1.00 39.13      A16S
ATOM  29436  P    U   A1393     183.421 115.255 -24.217  1.00 30.87      A16S
ATOM  29437  O1P  U   A1393     182.546 114.250 -24.871  1.00 39.58      A16S
ATOM  29438  O2P  U   A1393     182.814 116.401 -23.496  1.00 39.58      A16S
ATOM  29439  O5*  U   A1393     184.412 114.496 -23.232  1.00 30.87      A16S
ATOM  29440  C5*  U   A1393     185.027 113.291 -23.646  1.00 30.87      A16S
ATOM  29441  C4*  U   A1393     185.809 112.698 -22.524  1.00 30.87      A16S
ATOM  29442  O4*  U   A1393     186.965 113.514 -22.239  1.00 30.87      A16S
ATOM  29443  C1*  U   A1393     187.264 113.451 -20.857  1.00 30.87      A16S
ATOM  29444  N1   U   A1393     187.221 114.816 -20.309  1.00 39.58      A16S
ATOM  29445  C6   U   A1393     186.603 115.829 -20.985  1.00 39.58      A16S
ATOM  29446  C2   U   A1393     187.808 115.041 -19.084  1.00 39.58      A16S
ATOM  29447  O2   U   A1393     188.403 114.185 -18.469  1.00 39.58      A16S
ATOM  29448  N3   U   A1393     187.678 116.313 -18.608  1.00 39.58      A16S
ATOM  29449  C4   U   A1393     187.049 117.363 -19.224  1.00 39.58      A16S
ATOM  29450  O4   U   A1393     186.961 118.446 -18.641  1.00 39.58      A16S
ATOM  29451  C5   U   A1393     186.501 117.058 -20.498  1.00 39.58      A16S
ATOM  29452  C2*  U   A1393     186.244 112.510 -20.214  1.00 30.87      A16S
ATOM  29453  O2*  U   A1393     186.826 111.223 -20.162  1.00 30.87      A16S
ATOM  29454  C3*  U   A1393     185.084 112.590 -21.204  1.00 30.87      A16S
ATOM  29455  O3*  U   A1393     184.246 111.447 -21.206  1.00 30.87      A16S
ATOM  29456  P    A   A1394     183.122 111.283 -20.077  1.00 28.76      A16S
ATOM  29457  O1P  A   A1394     181.931 110.609 -20.652  1.00 50.17      A16S
ATOM  29458  O2P  A   A1394     182.969 112.587 -19.380  1.00 50.17      A16S
ATOM  29459  O5*  A   A1394     183.798 110.267 -19.079  1.00 28.76      A16S
ATOM  29460  C5*  A   A1394     183.111 109.819 -17.939  1.00 28.76      A16S
ATOM  29461  C4*  A   A1394     183.617 108.473 -17.586  1.00 28.76      A16S
ATOM  29462  O4*  A   A1394     183.353 107.621 -18.720  1.00 28.76      A16S
ATOM  29463  C1*  A   A1394     184.562 107.156 -19.264  1.00 28.76      A16S
ATOM  29464  N9   A   A1394     184.442 107.238 -20.705  1.00 50.17      A16S
ATOM  29465  C4   A   A1394     184.805 106.270 -21.597  1.00 50.17      A16S
ATOM  29466  N3   A   A1394     185.368 105.085 -21.323  1.00 50.17      A16S
ATOM  29467  C2   A   A1394     185.558 104.397 -22.437  1.00 50.17      A16S
ATOM  29468  N1   A   A1394     185.275 104.737 -23.699  1.00 50.17      A16S
ATOM  29469  C6   A   A1394     184.720 105.942 -23.931  1.00 50.17      A16S
ATOM  29470  N6   A   A1394     184.457 106.299 -25.184  1.00 50.17      A16S
ATOM  29471  C5   A   A1394     184.460 106.757 -22.838  1.00 50.17      A16S
ATOM  29472  N7   A   A1394     183.905 108.021 -22.732  1.00 50.17      A16S
ATOM  29473  C8   A   A1394     183.926 108.263 -21.447  1.00 50.17      A16S
ATOM  29474  C2*  A   A1394     185.672 108.049 -18.734  1.00 28.76      A16S
ATOM  29475  O2*  A   A1394     186.898 107.336 -18.715  1.00 28.76      A16S
ATOM  29476  C3*  A   A1394     185.118 108.452 -17.367  1.00 28.76      A16S
ATOM  29477  O3*  A   A1394     185.371 107.483 -16.369  1.00 28.76      A16S
ATOM  29478  P    C   A1395     185.556 107.960 -14.859  1.00 25.19      A16S
ATOM  29479  O1P  C   A1395     185.586 106.750 -13.974  1.00 30.14      A16S
ATOM  29480  O2P  C   A1395     184.537 109.013 -14.634  1.00 30.14      A16S
ATOM  29481  O5*  C   A1395     186.965 108.693 -14.889  1.00 25.19      A16S
ATOM  29482  C5*  C   A1395     188.204 107.966 -14.770  1.00 25.19      A16S
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ATOM  29483  C4* C   A1395     189.245 108.877 -14.191  1.00 25.19      A16S
ATOM  29484  O4* C   A1395     189.374 110.018 -15.068  1.00 25.19      A16S
ATOM  29485  C1* C   A1395     189.478 111.199 -14.316  1.00 25.19      A16S
ATOM  29486  N1  C   A1395     188.487 112.156 -14.809  1.00 30.14      A16S
ATOM  29487  C6  C   A1395     187.401 111.743 -15.523  1.00 30.14      A16S
ATOM  29488  C2  C   A1395     188.689 113.512 -14.558  1.00 30.14      A16S
ATOM  29489  O2  C   A1395     189.669 113.859 -13.892  1.00 30.14      A16S
ATOM  29490  N3  C   A1395     187.824 114.412 -15.050  1.00 30.14      A16S
ATOM  29491  C4  C   A1395     186.794 114.006 -15.782  1.00 30.14      A16S
ATOM  29492  N4  C   A1395     186.000 114.943 -16.302  1.00 30.14      A16S
ATOM  29493  C5  C   A1395     186.540 112.625 -16.028  1.00 30.14      A16S
ATOM  29494  C2* C   A1395     189.408 110.846 -12.837  1.00 25.19      A16S
ATOM  29495  O2* C   A1395     190.724 110.891 -12.350  1.00 25.19      A16S
ATOM  29496  C3* C   A1395     188.779 109.454 -12.875  1.00 25.19      A16S
ATOM  29497  O3* C   A1395     189.177 108.572 -11.833  1.00 25.19      A16S
ATOM  29498  P   A   A1396     188.310 108.491 -10.484  1.00 33.63      A16S
ATOM  29499  O1P A   A1396     189.067 107.625  -9.529  1.00 30.19      A16S
ATOM  29500  O2P A   A1396     186.895 108.152 -10.831  1.00 30.19      A16S
ATOM  29501  O5* A   A1396     188.361 109.990  -9.941  1.00 33.63      A16S
ATOM  29502  C5* A   A1396     189.567 110.510  -9.376  1.00 33.63      A16S
ATOM  29503  C4* A   A1396     189.259 111.643  -8.440  1.00 33.63      A16S
ATOM  29504  O4* A   A1396     188.792 112.760  -9.237  1.00 33.63      A16S
ATOM  29505  C1* A   A1396     187.528 113.167  -8.789  1.00 33.63      A16S
ATOM  29506  N9  A   A1396     186.789 113.644  -9.944  1.00 30.19      A16S
ATOM  29507  C4  A   A1396     186.368 114.928 -10.157  1.00 30.19      A16S
ATOM  29508  N3  A   A1396     186.502 115.973  -9.332  1.00 30.19      A16S
ATOM  29509  C2  A   A1396     186.017 117.082  -9.899  1.00 30.19      A16S
ATOM  29510  N1  A   A1396     185.459 117.245 -11.105  1.00 30.19      A16S
ATOM  29511  C6  A   A1396     185.335 116.163 -11.904  1.00 30.19      A16S
ATOM  29512  N6  A   A1396     184.793 116.313 -13.111  1.00 30.19      A16S
ATOM  29513  C5  A   A1396     185.800 114.935 -11.416  1.00 30.19      A16S
ATOM  29514  N7  A   A1396     185.818 113.668 -11.966  1.00 30.19      A16S
ATOM  29515  C8  A   A1396     186.410 112.940 -11.049  1.00 30.19      A16S
ATOM  29516  C2* A   A1396     186.946 111.947  -8.083  1.00 33.63      A16S
ATOM  29517  O2* A   A1396     185.870 112.270  -7.230  1.00 33.63      A16S
ATOM  29518  C3* A   A1396     188.184 111.373  -7.393  1.00 33.63      A16S
ATOM  29519  O3* A   A1396     188.450 112.275  -6.292  1.00 33.63      A16S
ATOM  29520  O5* C   A1397     189.145 111.498  -4.485  1.00 54.54      A16S
ATOM  29521  C5* C   A1397     190.276 110.990  -5.228  1.00 54.54      A16S
ATOM  29522  C4* C   A1397     191.613 110.892  -4.512  1.00 54.54      A16S
ATOM  29523  O4* C   A1397     191.395 110.317  -3.204  1.00 54.54      A16S
ATOM  29524  C1* C   A1397     192.460 109.453  -2.865  1.00 54.54      A16S
ATOM  29525  N1  C   A1397     191.885 108.123  -2.596  1.00173.67      A16S
ATOM  29526  C6  C   A1397     191.388 107.355  -3.615  1.00173.67      A16S
ATOM  29527  C2  C   A1397     191.832 107.661  -1.269  1.00173.67      A16S
ATOM  29528  O2  C   A1397     192.309 108.366  -0.358  1.00173.67      A16S
ATOM  29529  N3  C   A1397     191.263 106.459  -1.016  1.00173.67      A16S
ATOM  29530  C4  C   A1397     190.764 105.729  -2.020  1.00173.67      A16S
ATOM  29531  N4  C   A1397     190.194 104.557  -1.723  1.00173.67      A16S
ATOM  29532  C5  C   A1397     190.824 106.167  -3.375  1.00173.67      A16S
ATOM  29533  C2* C   A1397     193.492 109.515  -3.989  1.00 54.54      A16S
ATOM  29534  O2* C   A1397     194.473 110.472  -3.659  1.00 54.54      A16S
ATOM  29535  C3* C   A1397     192.653 109.987  -5.163  1.00 54.54      A16S
ATOM  29536  O3* C   A1397     193.474 110.705  -6.071  1.00 54.54      A16S
ATOM  29537  P   A   A1398     194.527 109.909  -7.004  1.00 57.03      A16S
ATOM  29538  O1P A   A1398     194.371 108.434  -6.802  1.00 41.52      A16S
ATOM  29539  O2P A   A1398     195.871 110.551  -6.795  1.00 41.52      A16S
ATOM  29540  O5* A   A1398     194.040 110.250  -8.483  1.00 57.03      A16S
ATOM  29541  C5* A   A1398     194.530 111.414  -9.152  1.00 57.03      A16S
ATOM  29542  C4* A   A1398     193.474 111.991 -10.044  1.00 57.03      A16S
ATOM  29543  O4* A   A1398     192.351 112.442  -9.254  1.00 57.03      A16S
ATOM  29544  C1* A   A1398     191.853 113.667  -9.775  1.00 57.03      A16S
ATOM  29545  N9  A   A1398     192.032 114.706  -8.755  1.00 41.52      A16S
ATOM  29546  C4  A   A1398     191.492 115.969  -8.771  1.00 41.52      A16S
ATOM  29547  N3  A   A1398     190.683 116.497  -9.701  1.00 41.52      A16S
ATOM  29548  C2  A   A1398     190.362 117.745  -9.388  1.00 41.52      A16S
ATOM  29549  N1  A   A1398     190.734 118.474  -8.333  1.00 41.52      A16S
ATOM  29550  C6  A   A1398     191.554 117.912  -7.417  1.00 41.52      A16S
ATOM  29551  N6  A   A1398     191.938 118.639  -6.365  1.00 41.52      A16S
ATOM  29552  C5  A   A1398     191.958 116.593  -7.630  1.00 41.52      A16S
ATOM  29553  N7  A   A1398     192.767 115.742  -6.897  1.00 41.52      A16S
ATOM  29554  C8  A   A1398     192.778 114.637  -7.603  1.00 41.52      A16S
ATOM  29555  C2* A   A1398     192.659 113.987 -11.029  1.00 57.03      A16S
ATOM  29556  O2* A   A1398     192.016 113.517 -12.194  1.00 57.03      A16S
ATOM  29557  C3* A   A1398     193.943 113.245 -10.736  1.00 57.03      A16S
ATOM  29558  O3* A   A1398     194.691 112.946 -11.872  1.00 57.03      A16S
ATOM  29559  P   C   A1399     196.033 113.758 -12.147  1.00 35.77      A16S
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ATOM  29560  O1P C   A1399     196.770 113.945 -10.869  1.00 47.27      A16S
ATOM  29561  O2P C   A1399     195.634 114.937 -12.941  1.00 47.27      A16S
ATOM  29562  O5* C   A1399     196.858 112.767 -13.080  1.00 35.77      A16S
ATOM  29563  C5* C   A1399     197.385 111.502 -12.599  1.00 35.77      A16S
ATOM  29564  C4* C   A1399     198.080 110.785 -13.742  1.00 35.77      A16S
ATOM  29565  O4* C   A1399     197.077 110.207 -14.610  1.00 35.77      A16S
ATOM  29566  C1* C   A1399     197.182 110.770 -15.897  1.00 35.77      A16S
ATOM  29567  N1  C   A1399     195.822 110.836 -16.454  1.00 47.27      A16S
ATOM  29568  C6  C   A1399     194.944 111.795 -16.053  1.00 47.27      A16S
ATOM  29569  C2  C   A1399     195.433 109.877 -17.392  1.00 47.27      A16S
ATOM  29570  O2  C   A1399     196.253 109.038 -17.771  1.00 47.27      A16S
ATOM  29571  N3  C   A1399     194.181 109.888 -17.871  1.00 47.27      A16S
ATOM  29572  C4  C   A1399     193.331 110.824 -17.473  1.00 47.27      A16S
ATOM  29573  N4  C   A1399     192.101 110.813 -17.989  1.00 47.27      A16S
ATOM  29574  C5  C   A1399     193.700 111.826 -16.531  1.00 47.27      A16S
ATOM  29575  C2* C   A1399     197.938 112.089 -15.724  1.00 35.77      A16S
ATOM  29576  O2* C   A1399     198.603 112.526 -16.883  1.00 35.77      A16S
ATOM  29577  C3* C   A1399     198.914 111.723 -14.616  1.00 35.77      A16S
ATOM  29578  O3* C   A1399     200.029 111.047 -15.203  1.00 35.77      A16S
ATOM  29579  P   C   A1400     201.391 110.854 -14.373  1.00 32.62      A16S
ATOM  29580  O1P C   A1400     201.746 112.118 -13.693  1.00 58.46      A16S
ATOM  29581  O2P C   A1400     202.338 110.248 -15.323  1.00 58.46      A16S
ATOM  29582  O5* C   A1400     201.031 109.760 -13.283  1.00 32.62      A16S
ATOM  29583  C5* C   A1400     200.629 108.455 -13.699  1.00 32.62      A16S
ATOM  29584  C4* C   A1400     200.779 107.484 -12.569  1.00 32.62      A16S
ATOM  29585  O4* C   A1400     202.073 107.731 -11.964  1.00 32.62      A16S
ATOM  29586  C1* C   A1400     201.919 107.946 -10.582  1.00 32.62      A16S
ATOM  29587  N1  C   A1400     202.936 108.909 -10.141  1.00 58.46      A16S
ATOM  29588  C6  C   A1400     203.209 110.025 -10.880  1.00 58.46      A16S
ATOM  29589  C2  C   A1400     203.635 108.657  -8.951  1.00 58.46      A16S
ATOM  29590  O2  C   A1400     203.357 107.647  -8.283  1.00 58.46      A16S
ATOM  29591  N3  C   A1400     204.592 109.518  -8.559  1.00 58.46      A16S
ATOM  29592  C4  C   A1400     204.864 110.596  -9.299  1.00 58.46      A16S
ATOM  29593  N4  C   A1400     205.838 111.413  -8.883  1.00 58.46      A16S
ATOM  29594  C5  C   A1400     204.156 110.885 -10.502  1.00 58.46      A16S
ATOM  29595  C2* C   A1400     200.469 108.379 -10.373  1.00 32.62      A16S
ATOM  29596  O2* C   A1400     200.048 108.027  -9.065  1.00 32.62      A16S
ATOM  29597  C3* C   A1400     199.747 107.570 -11.447  1.00 32.62      A16S
ATOM  29598  O3* C   A1400     199.503 106.261 -10.923  1.00 32.62      A16S
ATOM  29599  P   G   A1401     198.212 105.432 -11.392  1.00 41.45      A16S
ATOM  29600  O1P G   A1401     197.792 104.568 -10.253  1.00 54.86      A16S
ATOM  29601  O2P G   A1401     198.527 104.809 -12.709  1.00 54.86      A16S
ATOM  29602  O5* G   A1401     197.094 106.541 -11.657  1.00 41.45      A16S
ATOM  29603  C5* G   A1401     196.440 107.234 -10.581  1.00 41.45      A16S
ATOM  29604  C4* G   A1401     195.076 107.746 -11.021  1.00 41.45      A16S
ATOM  29605  O4* G   A1401     195.199 108.727 -12.092  1.00 41.45      A16S
ATOM  29606  C1* G   A1401     194.092 108.617 -12.971  1.00 41.45      A16S
ATOM  29607  N9  G   A1401     194.584 108.073 -14.232  1.00 54.86      A16S
ATOM  29608  C4  G   A1401     193.870 107.853 -15.387  1.00 54.86      A16S
ATOM  29609  N3  G   A1401     192.584 108.176 -15.601  1.00 54.86      A16S
ATOM  29610  C2  G   A1401     192.171 107.773 -16.784  1.00 54.86      A16S
ATOM  29611  N2  G   A1401     190.912 107.980 -17.159  1.00 54.86      A16S
ATOM  29612  N1  G   A1401     192.959 107.127 -17.688  1.00 54.86      A16S
ATOM  29613  C6  G   A1401     194.288 106.790 -17.489  1.00 54.86      A16S
ATOM  29614  O6  G   A1401     194.917 106.195 -18.371  1.00 54.86      A16S
ATOM  29615  C5  G   A1401     194.739 107.201 -16.230  1.00 54.86      A16S
ATOM  29616  N7  G   A1401     195.985 107.064 -15.646  1.00 54.86      A16S
ATOM  29617  C8  G   A1401     195.851 107.607 -14.471  1.00 54.86      A16S
ATOM  29618  C2* G   A1401     193.131 107.608 -12.340  1.00 41.45      A16S
ATOM  29619  O2* G   A1401     192.246 108.275 -11.465  1.00 41.45      A16S
ATOM  29620  C3* G   A1401     194.079 106.727 -11.549  1.00 41.45      A16S
ATOM  29621  O3* G   A1401     193.372 106.103 -10.494  1.00 41.45      A16S
ATOM  29622  P   C   A1402     192.984 104.550 -10.607  1.00 40.39      A16S
ATOM  29623  O1P C   A1402     192.093 104.219  -9.465  1.00 46.94      A16S
ATOM  29624  O2P C   A1402     194.266 103.814 -10.759  1.00 46.94      A16S
ATOM  29625  O5* C   A1402     192.119 104.459 -11.949  1.00 40.39      A16S
ATOM  29626  C5* C   A1402     190.879 105.197 -12.068  1.00 40.39      A16S
ATOM  29627  C4* C   A1402     190.246 105.021 -13.438  1.00 40.39      A16S
ATOM  29628  O4* C   A1402     191.095 105.587 -14.468  1.00 40.39      A16S
ATOM  29629  C1* C   A1402     190.924 104.862 -15.674  1.00 40.39      A16S
ATOM  29630  N1  C   A1402     192.227 104.305 -16.105  1.00 46.94      A16S
ATOM  29631  C6  C   A1402     193.257 104.145 -15.226  1.00 46.94      A16S
ATOM  29632  C2  C   A1402     192.379 103.919 -17.437  1.00 46.94      A16S
ATOM  29633  O2  C   A1402     191.456 104.110 -18.223  1.00 46.94      A16S
ATOM  29634  N3  C   A1402     193.526 103.353 -17.836  1.00 46.94      A16S
ATOM  29635  C4  C   A1402     194.516 103.180 -16.971  1.00 46.94      A16S
ATOM  29636  N4  C   A1402     195.633 102.601 -17.415  1.00 46.94      A16S
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ATOM  29637  C5  C   A1402     194.408 103.590 -15.614  1.00 46.94      A16S
ATOM  29638  C2* C   A1402     189.877 103.772 -15.423  1.00 40.39      A16S
ATOM  29639  O2* C   A1402     188.627 104.231 -15.886  1.00 40.39      A16S
ATOM  29640  C3* C   A1402     189.943 103.606 -13.908  1.00 40.39      A16S
ATOM  29641  O3* C   A1402     188.706 103.133 -13.381  1.00 40.39      A16S
ATOM  29642  P   C   A1403     188.475 101.556 -13.171  1.00 49.66      A16S
ATOM  29643  O1P C   A1403     187.087 101.375 -12.694  1.00 62.73      A16S
ATOM  29644  O2P C   A1403     189.594 100.977 -12.389  1.00 62.73      A16S
ATOM  29645  O5* C   A1403     188.543 100.983 -14.649  1.00 49.66      A16S
ATOM  29646  C5* C   A1403     187.582 101.394 -15.629  1.00 49.66      A16S
ATOM  29647  C4* C   A1403     188.008 100.945 -17.009  1.00 49.66      A16S
ATOM  29648  O4* C   A1403     189.248 101.599 -17.377  1.00 49.66      A16S
ATOM  29649  C1* C   A1403     190.046 100.717 -18.139  1.00 49.66      A16S
ATOM  29650  N1  C   A1403     191.300 100.498 -17.400  1.00 62.73      A16S
ATOM  29651  C6  C   A1403     191.498 101.058 -16.169  1.00 62.73      A16S
ATOM  29652  C2  C   A1403     192.278  99.705 -17.968  1.00 62.73      A16S
ATOM  29653  O2  C   A1403     192.075  99.231 -19.091  1.00 62.73      A16S
ATOM  29654  N3  C   A1403     193.422  99.471 -17.285  1.00 62.73      A16S
ATOM  29655  C4  C   A1403     193.598 100.007 -16.079  1.00 62.73      A16S
ATOM  29656  N4  C   A1403     194.726  99.732 -15.427  1.00 62.73      A16S
ATOM  29657  C5  C   A1403     192.622 100.842 -15.483  1.00 62.73      A16S
ATOM  29658  C2* C   A1403     189.237  99.433 -18.357  1.00 49.66      A16S
ATOM  29659  O2* C   A1403     188.549  99.512 -19.589  1.00 49.66      A16S
ATOM  29660  C3* C   A1403     188.283  99.463 -17.174  1.00 49.66      A16S
ATOM  29661  O3* C   A1403     187.080  98.751 -17.423  1.00 49.66      A16S
ATOM  29662  P   C   A1404     187.054  97.158 -17.232  1.00 32.88      A16S
ATOM  29663  O1P C   A1404     185.634  96.718 -17.092  1.00 47.34      A16S
ATOM  29664  O2P C   A1404     188.041  96.788 -16.174  1.00 47.34      A16S
ATOM  29665  O5* C   A1404     187.599  96.638 -18.631  1.00 32.88      A16S
ATOM  29666  C5* C   A1404     186.950  97.022 -19.848  1.00 32.88      A16S
ATOM  29667  C4* C   A1404     187.603  96.343 -21.022  1.00 32.88      A16S
ATOM  29668  O4* C   A1404     188.906  96.934 -21.255  1.00 32.88      A16S
ATOM  29669  C1* C   A1404     189.818  95.933 -21.671  1.00 32.88      A16S
ATOM  29670  N1  C   A1404     190.856  95.812 -20.636  1.00 47.34      A16S
ATOM  29671  C6  C   A1404     190.604  96.175 -19.341  1.00 47.34      A16S
ATOM  29672  C2  C   A1404     192.092  95.308 -20.992  1.00 47.34      A16S
ATOM  29673  O2  C   A1404     192.291  94.989 -22.173  1.00 47.34      A16S
ATOM  29674  N3  C   A1404     193.042  95.174 -20.047  1.00 47.34      A16S
ATOM  29675  C4  C   A1404     192.783  95.521 -18.788  1.00 47.34      A16S
ATOM  29676  N4  C   A1404     193.750  95.362 -17.887  1.00 47.34      A16S
ATOM  29677  C5  C   A1404     191.528  96.045 -18.396  1.00 47.34      A16S
ATOM  29678  C2* C   A1404     189.030  94.631 -21.816  1.00 32.88      A16S
ATOM  29679  O2* C   A1404     188.551  94.463 -23.137  1.00 32.88      A16S
ATOM  29680  C3* C   A1404     187.889  94.863 -20.846  1.00 32.88      A16S
ATOM  29681  O3* C   A1404     186.793  94.037 -21.143  1.00 32.88      A16S
ATOM  29682  P   G   A1405     186.670  92.626 -20.405  1.00 50.95      A16S
ATOM  29683  O1P G   A1405     185.304  92.102 -20.666  1.00 60.51      A16S
ATOM  29684  O2P G   A1405     187.135  92.799 -19.008  1.00 60.51      A16S
ATOM  29685  O5* G   A1405     187.733  91.711 -21.158  1.00 50.95      A16S
ATOM  29686  C5* G   A1405     187.542  91.351 -22.534  1.00 50.95      A16S
ATOM  29687  C4* G   A1405     188.793  90.726 -23.103  1.00 50.95      A16S
ATOM  29688  O4* G   A1405     189.873  91.693 -23.058  1.00 50.95      A16S
ATOM  29689  C1* G   A1405     191.105  91.024 -22.896  1.00 50.95      A16S
ATOM  29690  N9  G   A1405     191.703  91.426 -21.629  1.00 60.51      A16S
ATOM  29691  C4  G   A1405     193.034  91.347 -21.304  1.00 60.51      A16S
ATOM  29692  N3  G   A1405     194.026  90.942 -22.126  1.00 60.51      A16S
ATOM  29693  C2  G   A1405     195.196  90.918 -21.512  1.00 60.51      A16S
ATOM  29694  N2  G   A1405     196.286  90.534 -22.189  1.00 60.51      A16S
ATOM  29695  N1  G   A1405     195.380  91.267 -20.189  1.00 60.51      A16S
ATOM  29696  C6  G   A1405     194.372  91.683 -19.325  1.00 60.51      A16S
ATOM  29697  O6  G   A1405     194.638  91.944 -18.149  1.00 60.51      A16S
ATOM  29698  C5  G   A1405     193.111  91.723 -19.979  1.00 60.51      A16S
ATOM  29699  N7  G   A1405     191.863  92.080 -19.498  1.00 60.51      A16S
ATOM  29700  C8  G   A1405     191.062  91.897 -20.513  1.00 60.51      A16S
ATOM  29701  C2* G   A1405     190.807  89.526 -22.879  1.00 50.95      A16S
ATOM  29702  O2* G   A1405     190.930  89.015 -24.195  1.00 50.95      A16S
ATOM  29703  C3* G   A1405     189.363  89.503 -22.402  1.00 50.95      A16S
ATOM  29704  O3* G   A1405     188.717  88.284 -22.772  1.00 50.95      A16S
ATOM  29705  P   U   A1406     188.833  86.991 -21.808  1.00 64.21      A16S
ATOM  29706  O1P U   A1406     187.746  86.074 -22.209  1.00 43.25      A16S
ATOM  29707  O2P U   A1406     188.965  87.404 -20.386  1.00 43.25      A16S
ATOM  29708  O5* U   A1406     190.230  86.329 -22.179  1.00 64.21      A16S
ATOM  29709  C5* U   A1406     190.557  85.986 -23.533  1.00 64.21      A16S
ATOM  29710  C4* U   A1406     191.977  85.482 -23.607  1.00 64.21      A16S
ATOM  29711  O4* U   A1406     192.908  86.556 -23.311  1.00 64.21      A16S
ATOM  29712  C1* U   A1406     194.044  86.028 -22.655  1.00 64.21      A16S
ATOM  29713  N1  U   A1406     194.279  86.779 -21.414  1.00 43.25      A16S
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ATOM  29714  C6  U   A1406     193.286  87.502 -20.803  1.00 43.25      A16S
ATOM  29715  C2  U   A1406     195.544  86.718 -20.868  1.00 43.25      A16S
ATOM  29716  O2  U   A1406     196.456  86.121 -21.397  1.00 43.25      A16S
ATOM  29717  N3  U   A1406     195.707  87.390 -19.683  1.00 43.25      A16S
ATOM  29718  C4  U   A1406     194.758  88.122 -19.013  1.00 43.25      A16S
ATOM  29719  O4  U   A1406     195.053  88.666 -17.945  1.00 43.25      A16S
ATOM  29720  C5  U   A1406     193.476  88.160 -19.655  1.00 43.25      A16S
ATOM  29721  C2* U   A1406     193.828  84.523 -22.451  1.00 64.21      A16S
ATOM  29722  O2* U   A1406     194.550  83.811 -23.433  1.00 64.21      A16S
ATOM  29723  C3* U   A1406     192.317  84.387 -22.612  1.00 64.21      A16S
ATOM  29724  O3* U   A1406     191.929  83.117 -23.128  1.00 64.21      A16S
ATOM  29725  P   C   A1407     191.454  81.959 -22.120  1.00 56.11      A16S
ATOM  29726  O1P C   A1407     191.216  80.746 -22.948  1.00 66.43      A16S
ATOM  29727  O2P C   A1407     190.361  82.483 -21.266  1.00 66.43      A16S
ATOM  29728  O5* C   A1407     192.742  81.706 -21.219  1.00 56.11      A16S
ATOM  29729  C5* C   A1407     193.926  81.158 -21.814  1.00 56.11      A16S
ATOM  29730  C4* C   A1407     195.066  81.138 -20.831  1.00 56.11      A16S
ATOM  29731  O4* C   A1407     195.502  82.485 -20.539  1.00 56.11      A16S
ATOM  29732  C1* C   A1407     195.983  82.541 -19.207  1.00 56.11      A16S
ATOM  29733  N1  C   A1407     195.249  83.590 -18.476  1.00 66.43      A16S
ATOM  29734  C6  C   A1407     194.005  84.001 -18.876  1.00 66.43      A16S
ATOM  29735  C2  C   A1407     195.857  84.170 -17.353  1.00 66.43      A16S
ATOM  29736  O2  C   A1407     196.971  83.756 -16.990  1.00 66.43      A16S
ATOM  29737  N3  C   A1407     195.215  85.156 -16.692  1.00 66.43      A16S
ATOM  29738  C4  C   A1407     194.014  85.559 -17.101  1.00 66.43      A16S
ATOM  29739  N4  C   A1407     193.435  86.550 -16.430  1.00 66.43      A16S
ATOM  29740  C5  C   A1407     193.357  84.969 -18.222  1.00 66.43      A16S
ATOM  29741  C2* C   A1407     195.831  81.151 -18.584  1.00 56.11      A16S
ATOM  29742  O2* C   A1407     197.059  80.461 -18.653  1.00 56.11      A16S
ATOM  29743  C3* C   A1407     194.771  80.525 -19.477  1.00 56.11      A16S
ATOM  29744  O3* C   A1407     194.889  79.121 -19.511  1.00 56.11      A16S
ATOM  29745  P   A   A1408     194.129  78.248 -18.406  1.00 57.12      A16S
ATOM  29746  O1P A   A1408     194.539  76.835 -18.601  1.00 86.85      A16S
ATOM  29747  O2P A   A1408     192.684  78.600 -18.428  1.00 86.85      A16S
ATOM  29748  O5* A   A1408     194.776  78.758 -17.044  1.00 57.12      A16S
ATOM  29749  C5* A   A1408     196.147  78.459 -16.744  1.00 57.12      A16S
ATOM  29750  C4* A   A1408     196.498  78.915 -15.353  1.00 57.12      A16S
ATOM  29751  O4* A   A1408     196.578  80.356 -15.303  1.00 57.12      A16S
ATOM  29752  C1* A   A1408     196.155  80.807 -14.030  1.00 57.12      A16S
ATOM  29753  N9  A   A1408     195.037  81.724 -14.221  1.00 86.85      A16S
ATOM  29754  C4  A   A1408     194.582  82.643 -13.311  1.00 86.85      A16S
ATOM  29755  N3  A   A1408     195.087  82.901 -12.095  1.00 86.85      A16S
ATOM  29756  C2  A   A1408     194.374  83.841 -11.484  1.00 86.85      A16S
ATOM  29757  N1  A   A1408     193.289  84.497 -11.916  1.00 86.85      A16S
ATOM  29758  C6  A   A1408     192.804  84.203 -13.141  1.00 86.85      A16S
ATOM  29759  N6  A   A1408     191.706  84.832 -13.564  1.00 86.85      A16S
ATOM  29760  C5  A   A1408     193.483  83.238 -13.895  1.00 86.85      A16S
ATOM  29761  N7  A   A1408     193.266  82.727 -15.165  1.00 86.85      A16S
ATOM  29762  C8  A   A1408     194.214  81.837 -15.311  1.00 86.85      A16S
ATOM  29763  C2* A   A1408     195.773  79.581 -13.198  1.00 57.12      A16S
ATOM  29764  O2* A   A1408     196.845  79.211 -12.360  1.00 57.12      A16S
ATOM  29765  C3* A   A1408     195.502  78.548 -14.278  1.00 57.12      A16S
ATOM  29766  O3* A   A1408     195.713  77.233 -13.825  1.00 57.12      A16S
ATOM  29767  P   C   A1409     194.493  76.427 -13.177  1.00 52.22      A16S
ATOM  29768  O1P C   A1409     195.002  75.062 -12.892  1.00 79.50      A16S
ATOM  29769  O2P C   A1409     193.283  76.597 -14.021  1.00 79.50      A16S
ATOM  29770  O5* C   A1409     194.254  77.177 -11.797  1.00 52.22      A16S
ATOM  29771  C5* C   A1409     195.213  77.068 -10.739  1.00 52.22      A16S
ATOM  29772  C4* C   A1409     194.708  77.754  -9.499  1.00 52.22      A16S
ATOM  29773  O4* C   A1409     194.703  79.192  -9.696  1.00 52.22      A16S
ATOM  29774  C1* C   A1409     193.634  79.769  -8.955  1.00 52.22      A16S
ATOM  29775  N1  C   A1409     192.731  80.489  -9.873  1.00 79.50      A16S
ATOM  29776  C6  C   A1409     192.624  80.132 -11.187  1.00 79.50      A16S
ATOM  29777  C2  C   A1409     191.966  81.543  -9.366  1.00 79.50      A16S
ATOM  29778  O2  C   A1409     192.093  81.862  -8.171  1.00 79.50      A16S
ATOM  29779  N3  C   A1409     191.109  82.189 -10.185  1.00 79.50      A16S
ATOM  29780  C4  C   A1409     191.009  81.827 -11.462  1.00 79.50      A16S
ATOM  29781  N4  C   A1409     190.154  82.496 -12.235  1.00 79.50      A16S
ATOM  29782  C5  C   A1409     191.782  80.766 -12.006  1.00 79.50      A16S
ATOM  29783  C2* C   A1409     192.898  78.637  -8.238  1.00 52.22      A16S
ATOM  29784  O2* C   A1409     193.340  78.546  -6.896  1.00 52.22      A16S
ATOM  29785  C3* C   A1409     193.279  77.439  -9.098  1.00 52.22      A16S
ATOM  29786  O3* C   A1409     193.130  76.218  -8.420  1.00 52.22      A16S
ATOM  29787  P   G   A1410     191.716  75.470  -8.479  1.00 69.66      A16S
ATOM  29788  O1P G   A1410     191.902  74.190  -7.758  1.00 64.94      A16S
ATOM  29789  O2P G   A1410     191.213  75.459  -9.879  1.00 64.94      A16S
ATOM  29790  O5* G   A1410     190.755  76.409  -7.624  1.00 69.66      A16S
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ATOM	29791	C5*	G	A1410	190.958	76.568	-6.208	1.00	69.66	A16S
ATOM	29792	C4*	G	A1410	189.884	77.449	-5.609	1.00	69.66	A16S
ATOM	29793	O4*	G	A1410	190.004	78.797	-6.132	1.00	69.66	A16S
ATOM	29794	C1*	G	A1410	188.721	79.392	-6.208	1.00	69.66	A16S
ATOM	29795	N9	G	A1410	188.453	79.757	-7.596	1.00	64.94	A16S
ATOM	29796	C4	G	A1410	187.562	80.710	-8.027	1.00	64.94	A16S
ATOM	29797	N3	G	A1410	186.767	81.456	-7.244	1.00	64.94	A16S
ATOM	29798	C2	G	A1410	186.049	82.307	-7.947	1.00	64.94	A16S
ATOM	29799	N2	G	A1410	185.220	83.142	-7.328	1.00	64.94	A16S
ATOM	29800	N1	G	A1410	186.096	82.414	-9.307	1.00	64.94	A16S
ATOM	29801	C6	G	A1410	186.903	81.658	-10.133	1.00	64.94	A16S
ATOM	29802	O6	G	A1410	186.876	81.845	-11.347	1.00	64.94	A16S
ATOM	29803	C5	G	A1410	187.686	80.736	-9.396	1.00	64.94	A16S
ATOM	29804	N7	G	A1410	188.614	79.798	-9.824	1.00	64.94	A16S
ATOM	29805	C8	G	A1410	189.039	79.239	-8.724	1.00	64.94	A16S
ATOM	29806	C2*	G	A1410	187.712	78.385	-5.663	1.00	69.66	A16S
ATOM	29807	O2*	G	A1410	187.499	78.651	-4.290	1.00	69.66	A16S
ATOM	29808	C3*	G	A1410	188.439	77.067	-5.885	1.00	69.66	A16S
ATOM	29809	O3*	G	A1410	187.955	76.062	-5.007	1.00	69.66	A16S
ATOM	29810	P	C	A1411	186.696	75.166	-5.452	1.00	76.23	A16S
ATOM	29811	O1P	C	A1411	186.438	74.165	-4.381	1.00	79.33	A16S
ATOM	29812	O2P	C	A1411	186.938	74.704	-6.845	1.00	79.33	A16S
ATOM	29813	O5*	C	A1411	185.474	76.191	-5.460	1.00	76.23	A16S
ATOM	29814	C5*	C	A1411	184.988	76.754	-4.225	1.00	76.23	A16S
ATOM	29815	C4*	C	A1411	183.784	77.638	-4.465	1.00	76.23	A16S
ATOM	29816	O4*	C	A1411	184.175	78.836	-5.180	1.00	76.23	A16S
ATOM	29817	C1*	C	A1411	183.099	79.275	-5.988	1.00	76.23	A16S
ATOM	29818	N1	C	A1411	183.538	79.365	-7.393	1.00	79.33	A16S
ATOM	29819	C6	C	A1411	184.646	78.700	-7.837	1.00	79.33	A16S
ATOM	29820	C2	C	A1411	182.788	80.146	-8.280	1.00	79.33	A16S
ATOM	29821	O2	C	A1411	181.797	80.749	-7.855	1.00	79.33	A16S
ATOM	29822	N3	C	A1411	183.158	80.224	-9.572	1.00	79.33	A16S
ATOM	29823	C4	C	A1411	184.233	79.569	-9.995	1.00	79.33	A16S
ATOM	29824	N4	C	A1411	184.555	79.675	-11.282	1.00	79.33	A16S
ATOM	29825	C5	C	A1411	185.025	78.774	-9.118	1.00	79.33	A16S
ATOM	29826	C2*	C	A1411	181.939	78.299	-5.794	1.00	76.23	A16S
ATOM	29827	O2*	C	A1411	181.050	78.818	-4.828	1.00	76.23	A16S
ATOM	29828	C3*	C	A1411	182.654	77.055	-5.293	1.00	76.23	A16S
ATOM	29829	O3*	C	A1411	181.779	76.246	-4.521	1.00	76.23	A16S
ATOM	29830	P	C	A1412	180.761	75.247	-5.269	1.00	80.44	A16S
ATOM	29831	O1P	C	A1412	180.039	74.488	-4.203	1.00	62.41	A16S
ATOM	29832	O2P	C	A1412	181.494	74.502	-6.340	1.00	62.41	A16S
ATOM	29833	O5*	C	A1412	179.728	76.220	-5.996	1.00	80.44	A16S
ATOM	29834	C5*	C	A1412	178.815	77.024	-5.233	1.00	80.44	A16S
ATOM	29835	C4*	C	A1412	177.997	77.906	-6.143	1.00	80.44	A16S
ATOM	29836	O4*	C	A1412	178.865	78.838	-6.831	1.00	80.44	A16S
ATOM	29837	C1*	C	A1412	178.335	79.120	-8.117	1.00	80.44	A16S
ATOM	29838	N1	C	A1412	179.334	78.749	-9.137	1.00	62.41	A16S
ATOM	29839	C6	C	A1412	180.243	77.754	-8.905	1.00	62.41	A16S
ATOM	29840	C2	C	A1412	179.344	79.439	-10.354	1.00	62.41	A16S
ATOM	29841	O2	C	A1412	178.490	80.313	-10.558	1.00	62.41	A16S
ATOM	29842	N3	C	A1412	180.278	79.132	-11.278	1.00	62.41	A16S
ATOM	29843	C4	C	A1412	181.169	78.172	-11.031	1.00	62.41	A16S
ATOM	29844	N4	C	A1412	182.081	77.918	-11.961	1.00	62.41	A16S
ATOM	29845	C5	C	A1412	181.166	77.436	-9.817	1.00	62.41	A16S
ATOM	29846	C2*	C	A1412	177.031	78.340	-8.260	1.00	80.44	A16S
ATOM	29847	O2*	C	A1412	175.946	79.163	-7.882	1.00	80.44	A16S
ATOM	29848	C3*	C	A1412	177.240	77.216	-7.263	1.00	80.44	A16S
ATOM	29849	O3*	C	A1412	176.006	76.687	-6.838	1.00	80.44	A16S
ATOM	29850	P	A	A1413	175.424	75.379	-7.563	1.00	57.05	A16S
ATOM	29851	O1P	A	A1413	174.356	74.860	-6.666	1.00	77.88	A16S
ATOM	29852	O2P	A	A1413	176.546	74.483	-7.965	1.00	77.88	A16S
ATOM	29853	O5*	A	A1413	174.748	75.928	-8.898	1.00	57.05	A16S
ATOM	29854	C5*	A	A1413	173.444	76.524	-8.863	1.00	57.05	A16S
ATOM	29855	C4*	A	A1413	173.189	77.285	-10.129	1.00	57.05	A16S
ATOM	29856	O4*	A	A1413	174.305	78.172	-10.362	1.00	57.05	A16S
ATOM	29857	C1*	A	A1413	174.529	78.304	-11.749	1.00	57.05	A16S
ATOM	29858	N9	A	A1413	175.857	77.795	-12.058	1.00	77.88	A16S
ATOM	29859	C4	A	A1413	176.510	78.011	-13.238	1.00	77.88	A16S
ATOM	29860	N3	A	A1413	176.064	78.715	-14.287	1.00	77.88	A16S
ATOM	29861	C2	A	A1413	176.953	78.701	-15.266	1.00	77.88	A16S
ATOM	29862	N1	A	A1413	178.151	78.112	-15.312	1.00	77.88	A16S
ATOM	29863	C6	A	A1413	178.569	77.415	-14.235	1.00	77.88	A16S
ATOM	29864	N6	A	A1413	179.771	76.835	-14.276	1.00	77.88	A16S
ATOM	29865	C5	A	A1413	177.709	77.348	-13.131	1.00	77.88	A16S
ATOM	29866	N7	A	A1413	177.815	76.722	-11.899	1.00	77.88	A16S
ATOM	29867	C8	A	A1413	176.693	77.020	-11.301	1.00	77.88	A16S

ATOM	29868	C2*	A	A1413	173.464	77.487	-12.464	1.00 57.05	A16S
ATOM	29869	O2*	A	A1413	172.401	78.361	-12.772	1.00 57.05	A16S
ATOM	29870	C3*	A	A1413	173.101	76.466	-11.399	1.00 57.05	A16S
ATOM	29871	O3*	A	A1413	171.793	75.975	-11.585	1.00 57.05	A16S
ATOM	29872	P	U	A1414	171.558	74.676	-12.491	1.00 44.19	A16S
ATOM	29873	O1P	U	A1414	170.093	74.424	-12.472	1.00 74.62	A16S
ATOM	29874	O2P	U	A1414	172.496	73.616	-12.039	1.00 74.62	A16S
ATOM	29875	O5*	U	A1414	171.952	75.136	-13.959	1.00 44.19	A16S
ATOM	29876	C5*	U	A1414	171.161	76.110	-14.627	1.00 44.19	A16S
ATOM	29877	C4*	U	A1414	171.826	76.545	-15.894	1.00 44.19	A16S
ATOM	29878	O4*	U	A1414	173.162	77.021	-15.601	1.00 44.19	A16S
ATOM	29879	C1*	U	A1414	174.008	76.767	-16.707	1.00 44.19	A16S
ATOM	29880	N1	U	A1414	175.161	75.960	-16.272	1.00 74.62	A16S
ATOM	29881	C6	U	A1414	175.115	75.189	-15.141	1.00 74.62	A16S
ATOM	29882	C2	U	A1414	176.300	75.986	-17.065	1.00 74.62	A16S
ATOM	29883	O2	U	A1414	176.406	76.680	-18.059	1.00 74.62	A16S
ATOM	29884	N3	U	A1414	177.314	75.167	-16.651	1.00 74.62	A16S
ATOM	29885	C4	U	A1414	177.319	74.349	-15.548	1.00 74.62	A16S
ATOM	29886	O4	U	A1414	178.278	73.594	-15.359	1.00 74.62	A16S
ATOM	29887	C5	U	A1414	176.126	74.405	-14.761	1.00 74.62	A16S
ATOM	29888	C2*	U	A1414	173.170	76.049	-17.768	1.00 44.19	A16S
ATOM	29889	O2*	U	A1414	172.710	76.983	-18.734	1.00 44.19	A16S
ATOM	29890	C3*	U	A1414	172.043	75.465	-16.929	1.00 44.19	A16S
ATOM	29891	O3*	U	A1414	170.878	75.207	-17.693	1.00 44.19	A16S
ATOM	29892	P	G	A1415	170.689	73.765	-18.384	1.00 44.14	A16S
ATOM	29893	O1P	G	A1415	169.228	73.536	-18.529	1.00 81.00	A16S
ATOM	29894	O2P	G	A1415	171.524	72.755	-17.666	1.00 81.00	A16S
ATOM	29895	O5*	G	A1415	171.296	73.969	-19.841	1.00 44.14	A16S
ATOM	29896	C5*	G	A1415	170.818	75.028	-20.680	1.00 44.14	A16S
ATOM	29897	C4*	G	A1415	171.688	75.174	-21.907	1.00 44.14	A16S
ATOM	29898	O4*	G	A1415	172.997	75.699	-21.558	1.00 44.14	A16S
ATOM	29899	C1*	G	A1415	173.977	75.145	-22.421	1.00 44.14	A16S
ATOM	29900	N9	G	A1415	174.878	74.336	-21.607	1.00 81.00	A16S
ATOM	29901	C4	G	A1415	175.994	73.659	-22.040	1.00 81.00	A16S
ATOM	29902	N3	G	A1415	176.488	73.661	-23.296	1.00 81.00	A16S
ATOM	29903	C2	G	A1415	177.554	72.887	-23.407	1.00 81.00	A16S
ATOM	29904	N2	G	A1415	178.173	72.765	-24.587	1.00 81.00	A16S
ATOM	29905	N1	G	A1415	178.094	72.172	-22.368	1.00 81.00	A16S
ATOM	29906	C6	G	A1415	177.605	72.157	-21.067	1.00 81.00	A16S
ATOM	29907	O6	G	A1415	178.171	71.477	-20.204	1.00 81.00	A16S
ATOM	29908	C5	G	A1415	176.462	72.982	-20.932	1.00 81.00	A16S
ATOM	29909	N7	G	A1415	175.679	73.254	-19.820	1.00 81.00	A16S
ATOM	29910	C8	G	A1415	174.759	74.065	-20.264	1.00 81.00	A16S
ATOM	29911	C2*	G	A1415	173.236	74.283	-23.446	1.00 44.14	A16S
ATOM	29912	O2*	G	A1415	172.920	75.045	-24.593	1.00 44.14	A16S
ATOM	29913	C3*	G	A1415	171.986	73.904	-22.673	1.00 44.14	A16S
ATOM	29914	O3*	G	A1415	170.923	73.538	-23.515	1.00 44.14	A16S
ATOM	29915	P	G	A1416	170.521	71.995	-23.633	1.00 60.67	A16S
ATOM	29916	O1P	G	A1416	169.192	71.930	-24.294	1.00 62.16	A16S
ATOM	29917	O2P	G	A1416	170.714	71.361	-22.302	1.00 62.16	A16S
ATOM	29918	O5*	G	A1416	171.611	71.410	-24.632	1.00 60.67	A16S
ATOM	29919	C5*	G	A1416	171.778	71.981	-25.936	1.00 60.67	A16S
ATOM	29920	C4*	G	A1416	172.989	71.395	-26.613	1.00 60.67	A16S
ATOM	29921	O4*	G	A1416	174.175	71.767	-25.873	1.00 60.67	A16S
ATOM	29922	C1*	G	A1416	175.130	70.727	-25.952	1.00 60.67	A16S
ATOM	29923	N9	G	A1416	175.443	70.258	-24.607	1.00 62.16	A16S
ATOM	29924	C4	G	A1416	176.402	69.343	-24.300	1.00 62.16	A16S
ATOM	29925	N3	G	A1416	177.206	68.729	-25.183	1.00 62.16	A16S
ATOM	29926	C2	G	A1416	178.033	67.896	-24.594	1.00 62.16	A16S
ATOM	29927	N2	G	A1416	178.910	67.203	-25.331	1.00 62.16	A16S
ATOM	29928	N1	G	A1416	178.062	67.680	-23.242	1.00 62.16	A16S
ATOM	29929	C6	G	A1416	177.238	68.305	-22.316	1.00 62.16	A16S
ATOM	29930	O6	G	A1416	177.345	68.037	-21.118	1.00 62.16	A16S
ATOM	29931	C5	G	A1416	176.353	69.202	-22.934	1.00 62.16	A16S
ATOM	29932	N7	G	A1416	175.377	70.019	-22.389	1.00 62.16	A16S
ATOM	29933	C8	G	A1416	174.860	70.625	-23.419	1.00 62.16	A16S
ATOM	29934	C2*	G	A1416	174.548	69.621	-26.826	1.00 60.67	A16S
ATOM	29935	O2*	G	A1416	175.033	69.808	-28.140	1.00 60.67	A16S
ATOM	29936	C3*	G	A1416	173.051	69.878	-26.697	1.00 60.67	A16S
ATOM	29937	O3*	G	A1416	172.328	69.378	-27.819	1.00 60.67	A16S
ATOM	29938	P	G	A1417	171.523	67.993	-27.694	1.00 82.17	A16S
ATOM	29939	O1P	G	A1417	171.091	67.633	-29.070	1.00 75.71	A16S
ATOM	29940	O2P	G	A1417	170.511	68.119	-26.617	1.00 75.71	A16S
ATOM	29941	O5*	G	A1417	172.619	66.951	-27.187	1.00 82.17	A16S
ATOM	29942	C5*	G	A1417	173.717	66.533	-28.032	1.00 82.17	A16S
ATOM	29943	C4*	G	A1417	174.638	65.604	-27.269	1.00 82.17	A16S
ATOM	29944	O4*	G	A1417	175.284	66.344	-26.202	1.00 82.17	A16S

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ATOM  29945  C1* G   A1417     175.369  65.535 -25.042  1.00 82.17      A16S
ATOM  29946  N9  G   A1417     174.599  66.185 -23.986  1.00 75.71      A16S
ATOM  29947  C4  G   A1417     174.833  66.119 -22.634  1.00 75.71      A16S
ATOM  29948  N3  G   A1417     175.806  65.407 -22.033  1.00 75.71      A16S
ATOM  29949  C2  G   A1417     175.785  65.555 -20.721  1.00 75.71      A16S
ATOM  29950  N2  G   A1417     176.666  64.896 -19.965  1.00 75.71      A16S
ATOM  29951  N1  G   A1417     174.895  66.355 -20.051  1.00 75.71      A16S
ATOM  29952  C6  G   A1417     173.883  67.103 -20.648  1.00 75.71      A16S
ATOM  29953  O6  G   A1417     173.128  67.807 -19.947  1.00 75.71      A16S
ATOM  29954  C5  G   A1417     173.880  66.933 -22.058  1.00 75.71      A16S
ATOM  29955  N7  G   A1417     173.044  67.471 -23.024  1.00 75.71      A16S
ATOM  29956  C8  G   A1417     173.506  67.001 -24.149  1.00 75.71      A16S
ATOM  29957  C2* G   A1417     174.850  64.141 -25.398  1.00 82.17      A16S
ATOM  29958  O2* G   A1417     175.944  63.321 -25.751  1.00 82.17      A16S
ATOM  29959  C3* G   A1417     173.937  64.438 -26.582  1.00 82.17      A16S
ATOM  29960  O3* G   A1417     173.810  63.316 -27.459  1.00 82.17      A16S
ATOM  29961  P   A   A1418     172.514  62.364 -27.368  1.00141.80      A16S
ATOM  29962  O1P A   A1418     171.637  62.682 -28.526  1.00 86.87      A16S
ATOM  29963  O2P A   A1418     171.954  62.398 -25.990  1.00 86.87      A16S
ATOM  29964  O5* A   A1418     173.113  60.911 -27.612  1.00141.80      A16S
ATOM  29965  C5* A   A1418     173.787  60.586 -28.843  1.00141.80      A16S
ATOM  29966  C4* A   A1418     174.819  59.509 -28.605  1.00141.80      A16S
ATOM  29967  O4* A   A1418     175.899  60.042 -27.791  1.00141.80      A16S
ATOM  29968  C1* A   A1418     176.377  59.038 -26.913  1.00141.80      A16S
ATOM  29969  N9  A   A1418     176.107  59.456 -25.540  1.00 86.87      A16S
ATOM  29970  C4  A   A1418     176.776  59.039 -24.417  1.00 86.87      A16S
ATOM  29971  N3  A   A1418     177.839  58.224 -24.358  1.00 86.87      A16S
ATOM  29972  C2  A   A1418     178.199  58.017 -23.097  1.00 86.87      A16S
ATOM  29973  N1  A   A1418     177.655  58.491 -21.973  1.00 86.87      A16S
ATOM  29974  C6  A   A1418     176.584  59.304 -22.070  1.00 86.87      A16S
ATOM  29975  N6  A   A1418     176.026  59.766 -20.951  1.00 86.87      A16S
ATOM  29976  C5  A   A1418     176.114  59.611 -23.351  1.00 86.87      A16S
ATOM  29977  N7  A   A1418     175.069  60.407 -23.791  1.00 86.87      A16S
ATOM  29978  C8  A   A1418     175.114  60.289 -25.094  1.00 86.87      A16S
ATOM  29979  C2* A   A1418     175.609  57.751 -27.219  1.00141.80      A16S
ATOM  29980  O2* A   A1418     176.353  56.946 -28.106  1.00141.80      A16S
ATOM  29981  C3* A   A1418     174.326  58.294 -27.836  1.00141.80      A16S
ATOM  29982  O3* A   A1418     173.666  57.341 -28.664  1.00141.80      A16S
ATOM  29983  P   G   A1419     172.445  56.475 -28.065  1.00184.77      A16S
ATOM  29984  O1P G   A1419     172.237  55.325 -28.978  1.00121.78      A16S
ATOM  29985  O2P G   A1419     171.304  57.376 -27.749  1.00121.78      A16S
ATOM  29986  O5* G   A1419     173.015  55.909 -26.690  1.00184.77      A16S
ATOM  29987  C5* G   A1419     174.100  54.963 -26.675  1.00184.77      A16S
ATOM  29988  C4* G   A1419     174.471  54.619 -25.254  1.00184.77      A16S
ATOM  29989  O4* G   A1419     175.012  55.794 -24.596  1.00184.77      A16S
ATOM  29990  C1* G   A1419     174.602  55.814 -23.238  1.00184.77      A16S
ATOM  29991  N9  G   A1419     173.801  57.015 -23.021  1.00121.78      A16S
ATOM  29992  C4  G   A1419     173.544  57.622 -21.815  1.00121.78      A16S
ATOM  29993  N3  G   A1419     174.011  57.227 -20.613  1.00121.78      A16S
ATOM  29994  C2  G   A1419     173.570  57.999 -19.632  1.00121.78      A16S
ATOM  29995  N2  G   A1419     173.937  57.750 -18.364  1.00121.78      A16S
ATOM  29996  N1  G   A1419     172.735  59.074 -19.818  1.00121.78      A16S
ATOM  29997  C6  G   A1419     172.239  59.499 -21.047  1.00121.78      A16S
ATOM  29998  O6  G   A1419     171.478  60.481 -21.102  1.00121.78      A16S
ATOM  29999  C5  G   A1419     172.710  58.680 -22.110  1.00121.78      A16S
ATOM  30000  N7  G   A1419     172.462  58.747 -23.474  1.00121.78      A16S
ATOM  30001  C8  G   A1419     173.132  57.746 -23.974  1.00121.78      A16S
ATOM  30002  C2* G   A1419     173.795  54.539 -22.976  1.00184.77      A16S
ATOM  30003  O2* G   A1419     174.627  53.545 -22.412  1.00184.77      A16S
ATOM  30004  C3* G   A1419     173.308  54.189 -24.377  1.00184.77      A16S
ATOM  30005  O3* G   A1419     173.005  52.809 -24.538  1.00184.77      A16S
ATOM  30006  P   C   A1420     171.470  52.333 -24.559  1.00142.94      A16S
ATOM  30007  O1P C   A1420     171.447  50.932 -25.048  1.00196.21      A16S
ATOM  30008  O2P C   A1420     170.656  53.367 -25.253  1.00196.21      A16S
ATOM  30009  O5* C   A1420     171.058  52.324 -23.022  1.00142.94      A16S
ATOM  30010  C5* C   A1420     171.719  51.455 -22.092  1.00142.94      A16S
ATOM  30011  C4* C   A1420     171.510  51.946 -20.683  1.00142.94      A16S
ATOM  30012  O4* C   A1420     172.108  53.264 -20.546  1.00142.94      A16S
ATOM  30013  C1* C   A1420     171.333  54.054 -19.653  1.00142.94      A16S
ATOM  30014  N1  C   A1420     170.810  55.237 -20.376  1.00196.21      A16S
ATOM  30015  C6  C   A1420     170.660  55.223 -21.737  1.00196.21      A16S
ATOM  30016  C2  C   A1420     170.444  56.381 -19.637  1.00196.21      A16S
ATOM  30017  O2  C   A1420     170.609  56.388 -18.404  1.00196.21      A16S
ATOM  30018  N3  C   A1420     169.922  57.447 -20.288  1.00196.21      A16S
ATOM  30019  C4  C   A1420     169.767  57.412 -21.614  1.00196.21      A16S
ATOM  30020  N4  C   A1420     169.239  58.485 -22.211  1.00196.21      A16S
ATOM  30021  C5  C   A1420     170.147  56.276 -22.389  1.00196.21      A16S
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ATOM  30022  C2* C   A1420     170.198  53.172 -19.131  1.00142.94      A16S
ATOM  30023  O2* C   A1420     170.571  52.596 -17.891  1.00142.94      A16S
ATOM  30024  C3* C   A1420     170.065  52.150 -20.255  1.00142.94      A16S
ATOM  30025  O3* C   A1420     169.413  50.953 -19.844  1.00142.94      A16S
ATOM  30026  P   G   A1421     167.800  50.879 -19.870  1.00169.71      A16S
ATOM  30027  O1P G   A1421     167.410  49.470 -19.599  1.00173.06      A16S
ATOM  30028  O2P G   A1421     167.300  51.554 -21.100  1.00173.06      A16S
ATOM  30029  O5* G   A1421     167.360  51.759 -18.618  1.00169.71      A16S
ATOM  30030  C5* G   A1421     167.653  51.328 -17.276  1.00169.71      A16S
ATOM  30031  C4* G   A1421     166.985  52.237 -16.277  1.00169.71      A16S
ATOM  30032  O4* G   A1421     167.619  53.542 -16.305  1.00169.71      A16S
ATOM  30033  C1* G   A1421     166.645  54.554 -16.100  1.00169.71      A16S
ATOM  30034  N9  G   A1421     166.570  55.380 -17.305  1.00173.06      A16S
ATOM  30035  C4  G   A1421     166.022  56.639 -17.400  1.00173.06      A16S
ATOM  30036  N3  G   A1421     165.483  57.348 -16.385  1.00173.06      A16S
ATOM  30037  C2  G   A1421     165.026  58.520 -16.788  1.00173.06      A16S
ATOM  30038  N2  G   A1421     164.470  59.359 -15.903  1.00173.06      A16S
ATOM  30039  N1  G   A1421     165.084  58.957 -18.088  1.00173.06      A16S
ATOM  30040  C6  G   A1421     165.630  58.242 -19.149  1.00173.06      A16S
ATOM  30041  O6  G   A1421     165.624  58.727 -20.285  1.00173.06      A16S
ATOM  30042  C5  G   A1421     166.134  56.988 -18.728  1.00173.06      A16S
ATOM  30043  N7  G   A1421     166.757  55.981 -19.453  1.00173.06      A16S
ATOM  30044  C8  G   A1421     167.001  55.051 -18.570  1.00173.06      A16S
ATOM  30045  C2* G   A1421     165.312  53.856 -15.834  1.00169.71      A16S
ATOM  30046  O2* G   A1421     165.115  53.714 -14.441  1.00169.71      A16S
ATOM  30047  C3* G   A1421     165.521  52.528 -16.548  1.00169.71      A16S
ATOM  30048  O3* G   A1421     164.654  51.500 -16.099  1.00169.71      A16S
ATOM  30049  P   G   A1422     163.241  51.286 -16.837  1.00161.21      A16S
ATOM  30050  O1P G   A1422     162.563  50.142 -16.170  1.00121.27      A16S
ATOM  30051  O2P G   A1422     163.463  51.256 -18.312  1.00121.27      A16S
ATOM  30052  O5* G   A1422     162.435  52.611 -16.479  1.00161.21      A16S
ATOM  30053  C5* G   A1422     162.146  52.936 -15.109  1.00161.21      A16S
ATOM  30054  C4* G   A1422     161.359  54.218 -15.026  1.00161.21      A16S
ATOM  30055  O4* G   A1422     162.204  55.349 -15.370  1.00161.21      A16S
ATOM  30056  C1* G   A1422     161.438  56.327 -16.060  1.00161.21      A16S
ATOM  30057  N9  G   A1422     161.925  56.415 -17.434  1.00121.27      A16S
ATOM  30058  C4  G   A1422     161.696  57.445 -18.320  1.00121.27      A16S
ATOM  30059  N3  G   A1422     161.008  58.579 -18.061  1.00121.27      A16S
ATOM  30060  C2  G   A1422     160.942  59.369 -19.119  1.00121.27      A16S
ATOM  30061  N2  G   A1422     160.296  60.537 -19.037  1.00121.27      A16S
ATOM  30062  N1  G   A1422     161.505  59.071 -20.336  1.00121.27      A16S
ATOM  30063  C6  G   A1422     162.219  57.912 -20.626  1.00121.27      A16S
ATOM  30064  O6  G   A1422     162.689  57.741 -21.758  1.00121.27      A16S
ATOM  30065  C5  G   A1422     162.298  57.054 -19.499  1.00121.27      A16S
ATOM  30066  N7  G   A1422     162.907  55.814 -19.354  1.00121.27      A16S
ATOM  30067  C8  G   A1422     162.667  55.477 -18.115  1.00121.27      A16S
ATOM  30068  C2* G   A1422     159.993  55.835 -16.076  1.00161.21      A16S
ATOM  30069  O2* G   A1422     159.283  56.352 -14.968  1.00161.21      A16S
ATOM  30070  C3* G   A1422     160.194  54.333 -15.989  1.00161.21      A16S
ATOM  30071  O3* G   A1422     159.032  53.646 -15.581  1.00161.21      A16S
ATOM  30072  P   G   A1423     157.957  53.216 -16.693  1.00163.52      A16S
ATOM  30073  O1P G   A1423     157.013  52.278 -16.042  1.00120.78      A16S
ATOM  30074  O2P G   A1423     158.683  52.797 -17.925  1.00120.78      A16S
ATOM  30075  O5* G   A1423     157.191  54.576 -17.009  1.00163.52      A16S
ATOM  30076  C5* G   A1423     156.626  55.355 -15.942  1.00163.52      A16S
ATOM  30077  C4* G   A1423     156.113  56.678 -16.459  1.00163.52      A16S
ATOM  30078  O4* G   A1423     157.218  57.508 -16.911  1.00163.52      A16S
ATOM  30079  C1* G   A1423     156.784  58.336 -17.982  1.00163.52      A16S
ATOM  30080  N9  G   A1423     157.579  58.045 -19.175  1.00120.78      A16S
ATOM  30081  C4  G   A1423     157.622  58.809 -20.317  1.00120.78      A16S
ATOM  30082  N3  G   A1423     156.964  59.969 -20.516  1.00120.78      A16S
ATOM  30083  C2  G   A1423     157.185  60.461 -21.720  1.00120.78      A16S
ATOM  30084  N2  G   A1423     156.613  61.618 -22.078  1.00120.78      A16S
ATOM  30085  N1  G   A1423     157.984  59.856 -22.659  1.00120.78      A16S
ATOM  30086  C6  G   A1423     158.669  58.659 -22.476  1.00120.78      A16S
ATOM  30087  O6  G   A1423     159.357  58.195 -23.393  1.00120.78      A16S
ATOM  30088  C5  G   A1423     158.448  58.126 -21.185  1.00120.78      A16S
ATOM  30089  N7  G   A1423     158.934  56.967 -20.595  1.00120.78      A16S
ATOM  30090  C8  G   A1423     158.397  56.962 -19.404  1.00120.78      A16S
ATOM  30091  C2* G   A1423     155.306  58.036 -18.227  1.00163.52      A16S
ATOM  30092  O2* G   A1423     154.516  58.991 -17.545  1.00163.52      A16S
ATOM  30093  C3* G   A1423     155.182  56.627 -17.657  1.00163.52      A16S
ATOM  30094  O3* G   A1423     153.850  56.285 -17.311  1.00163.52      A16S
ATOM  30095  P   C   A1424     152.862  55.724 -18.448  1.00134.00      A16S
ATOM  30096  O1P C   A1424     151.642  55.218 -17.766  1.00146.33      A16S
ATOM  30097  O2P C   A1424     153.629  54.816 -19.344  1.00146.33      A16S
ATOM  30098  O5* C   A1424     152.477  57.033 -19.273  1.00134.00      A16S
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ATOM  30099  C5* C   A1424     152.007  58.214 -18.593  1.00134.00      A16S
ATOM  30100  C4* C   A1424     151.966  59.392 -19.537  1.00134.00      A16S
ATOM  30101  O4* C   A1424     153.307  59.735 -19.977  1.00134.00      A16S
ATOM  30102  C1* C   A1424     153.260  60.225 -21.308  1.00134.00      A16S
ATOM  30103  N1   C   A1424     154.103  59.373 -22.172  1.00146.33      A16S
ATOM  30104  C6   C   A1424     154.605  58.185 -21.716  1.00146.33      A16S
ATOM  30105  C2   C   A1424     154.381  59.799 -23.485  1.00146.33      A16S
ATOM  30106  O2   C   A1424     153.916  60.879 -23.882  1.00146.33      A16S
ATOM  30107  N3   C   A1424     155.145  59.020 -24.284  1.00146.33      A16S
ATOM  30108  C4   C   A1424     155.624  57.860 -23.828  1.00146.33      A16S
ATOM  30109  N4   C   A1424     156.367  57.118 -24.655  1.00146.33      A16S
ATOM  30110  C5   C   A1424     155.360  57.405 -22.503  1.00146.33      A16S
ATOM  30111  C2* C   A1424     151.796  60.228 -21.751  1.00134.00      A16S
ATOM  30112  O2* C   A1424     151.265  61.523 -21.563  1.00134.00      A16S
ATOM  30113  C3* C   A1424     151.186  59.182 -20.822  1.00134.00      A16S
ATOM  30114  O3* C   A1424     149.784  59.351 -20.630  1.00134.00      A16S
ATOM  30115  P    U   A1425     148.748  58.566 -21.583  1.00116.24      A16S
ATOM  30116  O1P U   A1425     147.375  58.979 -21.191  1.00148.89      A16S
ATOM  30117  O2P U   A1425     149.102  57.123 -21.610  1.00148.89      A16S
ATOM  30118  O5* U   A1425     149.045  59.170 -23.023  1.00116.24      A16S
ATOM  30119  C5* U   A1425     148.900  60.578 -23.266  1.00116.24      A16S
ATOM  30120  C4* U   A1425     149.283  60.898 -24.682  1.00116.24      A16S
ATOM  30121  O4* U   A1425     150.711  60.722 -24.859  1.00116.24      A16S
ATOM  30122  C1* U   A1425     150.969  60.224 -26.159  1.00116.24      A16S
ATOM  30123  N1   U   A1425     151.694  58.948 -26.044  1.00148.89      A16S
ATOM  30124  C6   U   A1425     151.319  57.978 -25.140  1.00148.89      A16S
ATOM  30125  C2   U   A1425     152.771  58.748 -26.887  1.00148.89      A16S
ATOM  30126  O2   U   A1425     153.142  59.582 -27.691  1.00148.89      A16S
ATOM  30127  N3   U   A1425     153.400  57.534 -26.754  1.00148.89      A16S
ATOM  30128  C4   U   A1425     153.075  56.520 -25.881  1.00148.89      A16S
ATOM  30129  O4   U   A1425     153.733  55.477 -25.891  1.00148.89      A16S
ATOM  30130  C5   U   A1425     151.955  56.803 -25.033  1.00148.89      A16S
ATOM  30131  C2* U   A1425     149.630  60.094 -26.889  1.00116.24      A16S
ATOM  30132  O2* U   A1425     149.415  61.243 -27.682  1.00116.24      A16S
ATOM  30133  C3* U   A1425     148.655  59.990 -25.722  1.00116.24      A16S
ATOM  30134  O3* U   A1425     147.330  60.388 -26.037  1.00116.24      A16S
ATOM  30135  P    C   A1426     146.288  59.298 -26.592  1.00 81.65      A16S
ATOM  30136  O1P C   A1426     144.922  59.874 -26.476  1.00122.81      A16S
ATOM  30137  O2P C   A1426     146.584  57.977 -25.981  1.00122.81      A16S
ATOM  30138  O5* C   A1426     146.642  59.227 -28.135  1.00 81.65      A16S
ATOM  30139  C5* C   A1426     146.674  60.422 -28.914  1.00 81.65      A16S
ATOM  30140  C4* C   A1426     147.396  60.173 -30.202  1.00 81.65      A16S
ATOM  30141  O4* C   A1426     148.790  59.879 -29.937  1.00 81.65      A16S
ATOM  30142  C1* C   A1426     149.272  58.960 -30.901  1.00 81.65      A16S
ATOM  30143  N1   C   A1426     149.840  57.787 -30.208  1.00122.81      A16S
ATOM  30144  C6   C   A1426     149.365  57.386 -28.991  1.00122.81      A16S
ATOM  30145  C2   C   A1426     150.883  57.079 -30.827  1.00122.81      A16S
ATOM  30146  O2   C   A1426     151.304  57.463 -31.928  1.00122.81      A16S
ATOM  30147  N3   C   A1426     151.404  55.996 -30.210  1.00122.81      A16S
ATOM  30148  C4   C   A1426     150.929  55.611 -29.024  1.00122.81      A16S
ATOM  30149  N4   C   A1426     151.474  54.531 -28.452  1.00122.81      A16S
ATOM  30150  C5   C   A1426     149.874  56.315 -28.370  1.00122.81      A16S
ATOM  30151  C2* C   A1426     148.111  58.608 -31.836  1.00 81.65      A16S
ATOM  30152  O2* C   A1426     148.202  59.368 -33.027  1.00 81.65      A16S
ATOM  30153  C3* C   A1426     146.903  58.972 -30.981  1.00 81.65      A16S
ATOM  30154  O3* C   A1426     145.747  59.284 -31.742  1.00 81.65      A16S
ATOM  30155  P    U   A1427     144.663  58.137 -32.040  1.00125.62      A16S
ATOM  30156  O1P U   A1427     143.429  58.832 -32.499  1.00 94.90      A16S
ATOM  30157  O2P U   A1427     144.599  57.222 -30.866  1.00 94.90      A16S
ATOM  30158  O5* U   A1427     145.293  57.341 -33.268  1.00125.62      A16S
ATOM  30159  C5* U   A1427     145.477  57.992 -34.535  1.00125.62      A16S
ATOM  30160  C4* U   A1427     146.288  57.126 -35.463  1.00125.62      A16S
ATOM  30161  O4* U   A1427     147.669  57.069 -35.022  1.00125.62      A16S
ATOM  30162  C1* U   A1427     148.225  55.810 -35.368  1.00125.62      A16S
ATOM  30163  N1   U   A1427     148.738  55.152 -34.155  1.00 94.90      A16S
ATOM  30164  C6   U   A1427     148.322  55.521 -32.895  1.00 94.90      A16S
ATOM  30165  C2   U   A1427     149.658  54.127 -34.323  1.00 94.90      A16S
ATOM  30166  O2   U   A1427     150.053  53.762 -35.420  1.00 94.90      A16S
ATOM  30167  N3   U   A1427     150.093  53.537 -33.160  1.00 94.90      A16S
ATOM  30168  C4   U   A1427     149.713  53.853 -31.874  1.00 94.90      A16S
ATOM  30169  O4   U   A1427     150.178  53.212 -30.928  1.00 94.90      A16S
ATOM  30170  C5   U   A1427     148.765  54.922 -31.781  1.00 94.90      A16S
ATOM  30171  C2* U   A1427     147.135  54.988 -36.059  1.00125.62      A16S
ATOM  30172  O2* U   A1427     147.298  55.061 -37.462  1.00125.62      A16S
ATOM  30173  C3* U   A1427     145.867  55.671 -35.560  1.00125.62      A16S
ATOM  30174  O3* U   A1427     144.767  55.477 -36.433  1.00125.62      A16S
ATOM  30175  P    A   A1428     143.828  54.186 -36.240  1.00110.67      A16S
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ATOM  30176  O1P A   A1428     142.703  54.280 -37.203  1.00143.92      A16S
ATOM  30177  O2P A   A1428     143.540  54.044 -34.787  1.00143.92      A16S
ATOM  30178  O5* A   A1428     144.762  52.975 -36.684  1.00110.67      A16S
ATOM  30179  C5* A   A1428     145.229  52.862 -38.039  1.00110.67      A16S
ATOM  30180  C4* A   A1428     146.107  51.646 -38.182  1.00110.67      A16S
ATOM  30181  O4* A   A1428     147.358  51.855 -37.482  1.00110.67      A16S
ATOM  30182  C1* A   A1428     147.804  50.628 -36.932  1.00110.67      A16S
ATOM  30183  N9  A   A1428     147.972  50.796 -35.490  1.00143.92      A16S
ATOM  30184  C4  A   A1428     148.704  49.982 -34.660  1.00143.92      A16S
ATOM  30185  N3  A   A1428     149.393  48.879 -34.997  1.00143.92      A16S
ATOM  30186  C2  A   A1428     149.983  48.350 -33.929  1.00143.92      A16S
ATOM  30187  N1  A   A1428     149.966  48.767 -32.660  1.00143.92      A16S
ATOM  30188  C6  A   A1428     149.266  49.881 -32.357  1.00143.92      A16S
ATOM  30189  N6  A   A1428     149.253  50.305 -31.094  1.00143.92      A16S
ATOM  30190  C5  A   A1428     148.591  50.532 -33.398  1.00143.92      A16S
ATOM  30191  N7  A   A1428     147.795  51.667 -33.426  1.00143.92      A16S
ATOM  30192  C8  A   A1428     147.452  51.779 -34.686  1.00143.92      A16S
ATOM  30193  C2* A   A1428     146.787  49.545 -37.298  1.00110.67      A16S
ATOM  30194  O2* A   A1428     147.258  48.834 -38.425  1.00110.67      A16S
ATOM  30195  C3* A   A1428     145.538  50.371 -37.585  1.00110.67      A16S
ATOM  30196  O3* A   A1428     144.641  49.732 -38.485  1.00110.67      A16S
ATOM  30197  P   C   A1429     143.288  49.071 -37.922  1.00104.51      A16S
ATOM  30198  O1P C   A1429     142.348  48.945 -39.064  1.00108.60      A16S
ATOM  30199  O2P C   A1429     142.870  49.820 -36.708  1.00108.60      A16S
ATOM  30200  O5* C   A1429     143.732  47.605 -37.492  1.00104.51      A16S
ATOM  30201  C5* C   A1429     144.209  46.684 -38.476  1.00104.51      A16S
ATOM  30202  C4* C   A1429     145.114  45.661 -37.845  1.00104.51      A16S
ATOM  30203  O4* C   A1429     146.230  46.326 -37.203  1.00104.51      A16S
ATOM  30204  C1* C   A1429     146.629  45.585 -36.061  1.00104.51      A16S
ATOM  30205  N1  C   A1429     146.576  46.457 -34.872  1.00108.60      A16S
ATOM  30206  C6  C   A1429     145.722  47.523 -34.813  1.00108.60      A16S
ATOM  30207  C2  C   A1429     147.422  46.170 -33.790  1.00108.60      A16S
ATOM  30208  O2  C   A1429     148.189  45.199 -33.863  1.00108.60      A16S
ATOM  30209  N3  C   A1429     147.383  46.955 -32.694  1.00108.60      A16S
ATOM  30210  C4  C   A1429     146.545  47.989 -32.645  1.00108.60      A16S
ATOM  30211  N4  C   A1429     146.538  48.732 -31.536  1.00108.60      A16S
ATOM  30212  C5  C   A1429     145.675  48.308 -33.730  1.00108.60      A16S
ATOM  30213  C2* C   A1429     145.714  44.367 -35.947  1.00104.51      A16S
ATOM  30214  O2* C   A1429     146.354  43.245 -36.526  1.00104.51      A16S
ATOM  30215  C3* C   A1429     144.498  44.819 -36.744  1.00104.51      A16S
ATOM  30216  O3* C   A1429     143.780  43.715 -37.270  1.00104.51      A16S
ATOM  30217  P   C   A1430     142.644  43.023 -36.377  1.00102.03      A16S
ATOM  30218  O1P C   A1430     142.026  41.936 -37.181  1.00 92.05      A16S
ATOM  30219  O2P C   A1430     141.793  44.114 -35.831  1.00 92.05      A16S
ATOM  30220  O5* C   A1430     143.460  42.353 -35.186  1.00102.03      A16S
ATOM  30221  C5* C   A1430     144.307  41.227 -35.437  1.00102.03      A16S
ATOM  30222  C4* C   A1430     144.895  40.717 -34.150  1.00102.03      A16S
ATOM  30223  O4* C   A1430     145.835  41.684 -33.624  1.00102.03      A16S
ATOM  30224  C1* C   A1430     145.815  41.643 -32.206  1.00102.03      A16S
ATOM  30225  N1  C   A1430     145.446  42.972 -31.688  1.00 92.05      A16S
ATOM  30226  C6  C   A1430     144.778  43.877 -32.464  1.00 92.05      A16S
ATOM  30227  C2  C   A1430     145.790  43.291 -30.371  1.00 92.05      A16S
ATOM  30228  O2  C   A1430     146.395  42.448 -29.688  1.00 92.05      A16S
ATOM  30229  N3  C   A1430     145.458  44.501 -29.875  1.00 92.05      A16S
ATOM  30230  C4  C   A1430     144.807  45.377 -30.639  1.00 92.05      A16S
ATOM  30231  N4  C   A1430     144.498  46.560 -30.107  1.00 92.05      A16S
ATOM  30232  C5  C   A1430     144.443  45.079 -31.984  1.00 92.05      A16S
ATOM  30233  C2* C   A1430     144.813  40.574 -31.783  1.00102.03      A16S
ATOM  30234  O2* C   A1430     145.504  39.372 -31.507  1.00102.03      A16S
ATOM  30235  C3* C   A1430     143.918  40.501 -33.011  1.00102.03      A16S
ATOM  30236  O3* C   A1430     143.214  39.278 -33.106  1.00102.03      A16S
ATOM  30237  P   C   A1431     141.763  39.162 -32.435  1.00 91.21      A16S
ATOM  30238  O1P C   A1431     141.116  37.910 -32.919  1.00 66.01      A16S
ATOM  30239  O2P C   A1431     141.077  40.476 -32.635  1.00 66.01      A16S
ATOM  30240  O5* C   A1431     142.098  38.961 -30.894  1.00 91.21      A16S
ATOM  30241  C5* C   A1431     142.781  37.780 -30.460  1.00 91.21      A16S
ATOM  30242  C4* C   A1431     143.098  37.866 -28.993  1.00 91.21      A16S
ATOM  30243  O4* C   A1431     144.011  38.970 -28.759  1.00 91.21      A16S
ATOM  30244  C1* C   A1431     143.736  39.556 -27.498  1.00 91.21      A16S
ATOM  30245  N1  C   A1431     143.280  40.941 -27.711  1.00 66.01      A16S
ATOM  30246  C6  C   A1431     142.706  41.317 -28.893  1.00 66.01      A16S
ATOM  30247  C2  C   A1431     143.429  41.870 -26.674  1.00 66.01      A16S
ATOM  30248  O2  C   A1431     143.961  41.505 -25.613  1.00 66.01      A16S
ATOM  30249  N3  C   A1431     142.992  43.142 -26.853  1.00 66.01      A16S
ATOM  30250  C4  C   A1431     142.432  43.496 -28.012  1.00 66.01      A16S
ATOM  30251  N4  C   A1431     142.021  44.760 -28.155  1.00 66.01      A16S
ATOM  30252  C5  C   A1431     142.271  42.570 -29.083  1.00 66.01      A16S
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ATOM  30253  C2* C   A1431     142.631  38.728 -26.848  1.00 91.21      A16S
ATOM  30254  O2* C   A1431     143.196  37.712 -26.042  1.00 91.21      A16S
ATOM  30255  C3* C   A1431     141.930  38.158 -28.068  1.00 91.21      A16S
ATOM  30256  O3* C   A1431     141.157  37.019 -27.748  1.00 91.21      A16S
ATOM  30257  P   G   A1432     139.574  37.184 -27.535  1.00 83.21      A16S
ATOM  30258  O1P G   A1432     139.092  35.877 -27.013  1.00 70.91      A16S
ATOM  30259  O2P G   A1432     138.961  37.760 -28.764  1.00 70.91      A16S
ATOM  30260  O5* G   A1432     139.444  38.289 -26.392  1.00 83.21      A16S
ATOM  30261  C5* G   A1432     140.079  38.102 -25.116  1.00 83.21      A16S
ATOM  30262  C4* G   A1432     139.884  39.315 -24.234  1.00 83.21      A16S
ATOM  30263  O4* G   A1432     140.558  40.472 -24.789  1.00 83.21      A16S
ATOM  30264  C1* G   A1432     139.843  41.645 -24.455  1.00 83.21      A16S
ATOM  30265  N9  G   A1432     139.431  42.297 -25.691  1.00 70.91      A16S
ATOM  30266  C4  G   A1432     139.191  43.634 -25.863  1.00 70.91      A16S
ATOM  30267  N3  G   A1432     139.299  44.587 -24.910  1.00 70.91      A16S
ATOM  30268  C2  G   A1432     138.994  45.790 -25.377  1.00 70.91      A16S
ATOM  30269  N2  G   A1432     139.047  46.855 -24.565  1.00 70.91      A16S
ATOM  30270  N1  G   A1432     138.615  46.035 -26.679  1.00 70.91      A16S
ATOM  30271  C6  G   A1432     138.497  45.066 -27.677  1.00 70.91      A16S
ATOM  30272  O6  G   A1432     138.143  45.392 -28.827  1.00 70.91      A16S
ATOM  30273  C5  G   A1432     138.820  43.773 -27.185  1.00 70.91      A16S
ATOM  30274  N7  G   A1432     138.825  42.545 -27.830  1.00 70.91      A16S
ATOM  30275  C8  G   A1432     139.196  41.702 -26.907  1.00 70.91      A16S
ATOM  30276  C2* G   A1432     138.648  41.226 -23.601  1.00 83.21      A16S
ATOM  30277  O2* G   A1432     139.007  41.314 -22.238  1.00 83.21      A16S
ATOM  30278  C3* G   A1432     138.459  39.776 -24.024  1.00 83.21      A16S
ATOM  30279  O3* G   A1432     137.846  39.012 -23.008  1.00 83.21      A16S
ATOM  30280  P   A   A1433     136.290  39.230 -22.678  1.00 49.65      A16S
ATOM  30281  O1P A   A1433     135.590  37.941 -22.901  1.00 52.56      A16S
ATOM  30282  O2P A   A1433     135.794  40.456 -23.360  1.00 52.56      A16S
ATOM  30283  O5* A   A1433     136.312  39.479 -21.113  1.00 49.65      A16S
ATOM  30284  C5* A   A1433     136.962  38.543 -20.246  1.00 49.65      A16S
ATOM  30285  C4* A   A1433     136.844  39.005 -18.831  1.00 49.65      A16S
ATOM  30286  O4* A   A1433     137.628  40.212 -18.666  1.00 49.65      A16S
ATOM  30287  C1* A   A1433     136.934  41.125 -17.832  1.00 49.65      A16S
ATOM  30288  N9  A   A1433     136.709  42.364 -18.589  1.00 52.56      A16S
ATOM  30289  C4  A   A1433     136.390  43.605 -18.081  1.00 52.56      A16S
ATOM  30290  N3  A   A1433     136.227  43.947 -16.793  1.00 52.56      A16S
ATOM  30291  C2  A   A1433     135.907  45.227 -16.688  1.00 52.56      A16S
ATOM  30292  N1  A   A1433     135.743  46.139 -17.651  1.00 52.56      A16S
ATOM  30293  C6  A   A1433     135.915  45.760 -18.932  1.00 52.56      A16S
ATOM  30294  N6  A   A1433     135.746  46.662 -19.898  1.00 52.56      A16S
ATOM  30295  C5  A   A1433     136.258  44.434 -19.175  1.00 52.56      A16S
ATOM  30296  N7  A   A1433     136.501  43.742 -20.348  1.00 52.56      A16S
ATOM  30297  C8  A   A1433     136.763  42.525 -19.949  1.00 52.56      A16S
ATOM  30298  C2* A   A1433     135.644  40.441 -17.370  1.00 49.65      A16S
ATOM  30299  O2* A   A1433     135.839  39.868 -16.091  1.00 49.65      A16S
ATOM  30300  C3* A   A1433     135.433  39.407 -18.468  1.00 49.65      A16S
ATOM  30301  O3* A   A1433     134.652  38.292 -18.082  1.00 49.65      A16S
ATOM  30302  P   A   A1434     133.054  38.376 -18.207  1.00 49.58      A16S
ATOM  30303  O1P A   A1434     132.490  37.158 -17.590  1.00 51.28      A16S
ATOM  30304  O2P A   A1434     132.668  38.744 -19.593  1.00 51.28      A16S
ATOM  30305  O5* A   A1434     132.671  39.594 -17.256  1.00 49.58      A16S
ATOM  30306  C5* A   A1434     132.802  39.487 -15.819  1.00 49.58      A16S
ATOM  30307  C4* A   A1434     132.322  40.756 -15.157  1.00 49.58      A16S
ATOM  30308  O4* A   A1434     133.184  41.847 -15.558  1.00 49.58      A16S
ATOM  30309  C1* A   A1434     132.416  43.019 -15.732  1.00 49.58      A16S
ATOM  30310  N9  A   A1434     132.551  43.466 -17.118  1.00 51.28      A16S
ATOM  30311  C4  A   A1434     132.561  44.772 -17.537  1.00 51.28      A16S
ATOM  30312  N3  A   A1434     132.513  45.872 -16.768  1.00 51.28      A16S
ATOM  30313  C2  A   A1434     132.498  46.967 -17.519  1.00 51.28      A16S
ATOM  30314  N1  A   A1434     132.515  47.081 -18.854  1.00 51.28      A16S
ATOM  30315  C6  A   A1434     132.564  45.958 -19.598  1.00 51.28      A16S
ATOM  30316  N6  A   A1434     132.564  46.079 -20.926  1.00 51.28      A16S
ATOM  30317  C5  A   A1434     132.602  44.726 -18.917  1.00 51.28      A16S
ATOM  30318  N7  A   A1434     132.669  43.413 -19.360  1.00 51.28      A16S
ATOM  30319  C8  A   A1434     132.644  42.707 -18.258  1.00 51.28      A16S
ATOM  30320  C2* A   A1434     130.962  42.693 -15.381  1.00 49.58      A16S
ATOM  30321  O2* A   A1434     130.672  43.093 -14.060  1.00 49.58      A16S
ATOM  30322  C3* A   A1434     130.924  41.186 -15.566  1.00 49.58      A16S
ATOM  30323  O3* A   A1434     129.928  40.568 -14.765  1.00 49.58      A16S
ATOM  30324  P   G   A1435     128.510  40.186 -15.418  1.00 38.48      A16S
ATOM  30325  O1P G   A1435     127.629  39.692 -14.329  1.00 59.90      A16S
ATOM  30326  O2P G   A1435     128.737  39.343 -16.615  1.00 59.90      A16S
ATOM  30327  O5* G   A1435     127.924  41.583 -15.904  1.00 38.48      A16S
ATOM  30328  C5* G   A1435     127.572  42.600 -14.942  1.00 38.48      A16S
ATOM  30329  C4* G   A1435     127.268  43.900 -15.640  1.00 38.48      A16S
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ATOM  30330  O4*  G   A1435     128.461  44.337 -16.335  1.00 38.48      A16S
ATOM  30331  C1*  G   A1435     128.102  44.913 -17.575  1.00 38.48      A16S
ATOM  30332  N9   G   A1435     128.683  44.086 -18.631  1.00 59.90      A16S
ATOM  30333  C4   G   A1435     129.069  44.492 -19.888  1.00 59.90      A16S
ATOM  30334  N3   G   A1435     129.000  45.745 -20.372  1.00 59.90      A16S
ATOM  30335  C2   G   A1435     129.420  45.814 -21.617  1.00 59.90      A16S
ATOM  30336  N2   G   A1435     129.400  46.986 -22.254  1.00 59.90      A16S
ATOM  30337  N1   G   A1435     129.882  44.738 -22.330  1.00 59.90      A16S
ATOM  30338  C6   G   A1435     129.961  43.437 -21.852  1.00 59.90      A16S
ATOM  30339  O6   G   A1435     130.387  42.529 -22.581  1.00 59.90      A16S
ATOM  30340  C5   G   A1435     129.508  43.350 -20.522  1.00 59.90      A16S
ATOM  30341  N7   G   A1435     129.415  42.254 -19.682  1.00 59.90      A16S
ATOM  30342  C8   G   A1435     128.930  42.739 -18.572  1.00 59.90      A16S
ATOM  30343  C2*  G   A1435     126.567  44.954 -17.640  1.00 38.48      A16S
ATOM  30344  O2*  G   A1435     126.052  46.190 -17.180  1.00 38.48      A16S
ATOM  30345  C3*  G   A1435     126.188  43.820 -16.708  1.00 38.48      A16S
ATOM  30346  O3*  G   A1435     124.878  43.994 -16.175  1.00 38.48      A16S
ATOM  30347  P    U   A1436     123.637  43.176 -16.810  1.00 39.72      A16S
ATOM  30348  O1P  U   A1436     122.626  42.989 -15.733  1.00 63.53      A16S
ATOM  30349  O2P  U   A1436     124.145  41.996 -17.541  1.00 63.53      A16S
ATOM  30350  O5*  U   A1436     123.031  44.178 -17.886  1.00 39.72      A16S
ATOM  30351  C5*  U   A1436     122.554  45.465 -17.482  1.00 39.72      A16S
ATOM  30352  C4*  U   A1436     122.597  46.423 -18.638  1.00 39.72      A16S
ATOM  30353  O4*  U   A1436     123.968  46.591 -19.083  1.00 39.72      A16S
ATOM  30354  C1*  U   A1436     123.977  46.879 -20.468  1.00 39.72      A16S
ATOM  30355  N1   U   A1436     124.867  45.932 -21.162  1.00 63.53      A16S
ATOM  30356  C6   U   A1436     125.397  44.839 -20.531  1.00 63.53      A16S
ATOM  30357  C2   U   A1436     125.157  46.182 -22.492  1.00 63.53      A16S
ATOM  30358  O2   U   A1436     124.710  47.132 -23.102  1.00 63.53      A16S
ATOM  30359  N3   U   A1436     125.989  45.277 -23.086  1.00 63.53      A16S
ATOM  30360  C4   U   A1436     126.546  44.174 -22.515  1.00 63.53      A16S
ATOM  30361  O4   U   A1436     127.276  43.455 -23.192  1.00 63.53      A16S
ATOM  30362  C5   U   A1436     126.203  43.974 -21.145  1.00 63.53      A16S
ATOM  30363  C2*  U   A1436     122.525  46.853 -20.958  1.00 39.72      A16S
ATOM  30364  O2*  U   A1436     122.009  48.168 -20.939  1.00 39.72      A16S
ATOM  30365  C3*  U   A1436     121.839  46.019 -19.889  1.00 39.72      A16S
ATOM  30366  O3*  U   A1436     120.465  46.372 -19.807  1.00 39.72      A16S
ATOM  30367  P    C   A1437     119.385  45.579 -20.695  1.00 33.63      A16S
ATOM  30368  O1P  C   A1437     118.071  46.252 -20.566  1.00 54.04      A16S
ATOM  30369  O2P  C   A1437     119.505  44.137 -20.373  1.00 54.04      A16S
ATOM  30370  O5*  C   A1437     119.865  45.810 -22.189  1.00 33.63      A16S
ATOM  30371  C5*  C   A1437     119.651  47.071 -22.844  1.00 33.63      A16S
ATOM  30372  C4*  C   A1437     120.175  47.011 -24.255  1.00 33.63      A16S
ATOM  30373  O4*  C   A1437     121.604  46.777 -24.218  1.00 33.63      A16S
ATOM  30374  C1*  C   A1437     121.982  45.983 -25.326  1.00 33.63      A16S
ATOM  30375  N1   C   A1437     122.696  44.792 -24.852  1.00 54.04      A16S
ATOM  30376  C6   C   A1437     122.346  44.171 -23.691  1.00 54.04      A16S
ATOM  30377  C2   C   A1437     123.738  44.299 -25.625  1.00 54.04      A16S
ATOM  30378  O2   C   A1437     124.042  44.897 -26.678  1.00 54.04      A16S
ATOM  30379  N3   C   A1437     124.393  43.193 -25.217  1.00 54.04      A16S
ATOM  30380  C4   C   A1437     124.044  42.596 -24.084  1.00 54.04      A16S
ATOM  30381  N4   C   A1437     124.723  41.519 -23.714  1.00 54.04      A16S
ATOM  30382  C5   C   A1437     122.988  43.078 -23.276  1.00 54.04      A16S
ATOM  30383  C2*  C   A1437     120.723  45.617 -26.109  1.00 33.63      A16S
ATOM  30384  O2*  C   A1437     120.589  46.443 -27.243  1.00 33.63      A16S
ATOM  30385  C3*  C   A1437     119.634  45.858 -25.081  1.00 33.63      A16S
ATOM  30386  O3*  C   A1437     118.428  46.176 -25.730  1.00 33.63      A16S
ATOM  30387  P    G   A1438     117.509  44.991 -26.262  1.00 49.34      A16S
ATOM  30388  O1P  G   A1438     116.250  45.579 -26.797  1.00 47.43      A16S
ATOM  30389  O2P  G   A1438     117.461  44.002 -25.158  1.00 47.43      A16S
ATOM  30390  O5*  G   A1438     118.335  44.345 -27.460  1.00 49.34      A16S
ATOM  30391  C5*  G   A1438     118.406  44.991 -28.735  1.00 49.34      A16S
ATOM  30392  C4*  G   A1438     119.178  44.144 -29.713  1.00 49.34      A16S
ATOM  30393  O4*  G   A1438     120.548  43.999 -29.267  1.00 49.34      A16S
ATOM  30394  C1*  G   A1438     121.047  42.729 -29.656  1.00 49.34      A16S
ATOM  30395  N9   G   A1438     121.498  42.014 -28.465  1.00 47.43      A16S
ATOM  30396  C4   G   A1438     122.274  40.883 -28.437  1.00 47.43      A16S
ATOM  30397  N3   G   A1438     122.761  40.229 -29.506  1.00 47.43      A16S
ATOM  30398  C2   G   A1438     123.475  39.172 -29.149  1.00 47.43      A16S
ATOM  30399  N2   G   A1438     124.035  38.400 -30.077  1.00 47.43      A16S
ATOM  30400  N1   G   A1438     123.695  38.790 -27.856  1.00 47.43      A16S
ATOM  30401  C6   G   A1438     123.203  39.448 -26.742  1.00 47.43      A16S
ATOM  30402  O6   G   A1438     123.452  39.018 -25.621  1.00 47.43      A16S
ATOM  30403  C5   G   A1438     122.438  40.584 -27.101  1.00 47.43      A16S
ATOM  30404  N7   G   A1438     121.784  41.510 -26.303  1.00 47.43      A16S
ATOM  30405  C8   G   A1438     121.240  42.337 -27.153  1.00 47.43      A16S
ATOM  30406  C2*  G   A1438     119.937  42.006 -30.417  1.00 49.34      A16S
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ATOM  30407  O2* G   A1438     120.147  42.198 -31.803  1.00 49.34       A16S
ATOM  30408  C3* G   A1438     118.690  42.719 -29.900  1.00 49.34       A16S
ATOM  30409  O3* G   A1438     117.605  42.662 -30.820  1.00 49.34       A16S
ATOM  30410  P    C   A1439     116.518  41.487 -30.693  1.00 52.55       A16S
ATOM  30411  O1P C   A1439     115.413  41.809 -31.630  1.00 61.40       A16S
ATOM  30412  O2P C   A1439     116.232  41.291 -29.255  1.00 61.40       A16S
ATOM  30413  O5* C   A1439     117.279  40.198 -31.228  1.00 52.55       A16S
ATOM  30414  C5* C   A1439     117.577  40.049 -32.629  1.00 52.55       A16S
ATOM  30415  C4* C   A1439     118.404  38.810 -32.858  1.00 52.55       A16S
ATOM  30416  O4* C   A1439     119.677  38.956 -32.178  1.00 52.55       A16S
ATOM  30417  C1* C   A1439     120.071  37.713 -31.621  1.00 52.55       A16S
ATOM  30418  N1   C   A1439     120.166  37.856 -30.152  1.00 61.40       A16S
ATOM  30419  C6   C   A1439     119.520  38.867 -29.494  1.00 61.40       A16S
ATOM  30420  C2   C   A1439     120.935  36.933 -29.438  1.00 61.40       A16S
ATOM  30421  O2   C   A1439     121.503  36.023 -30.056  1.00 61.40       A16S
ATOM  30422  N3   C   A1439     121.041  37.055 -28.096  1.00 61.40       A16S
ATOM  30423  C4   C   A1439     120.417  38.049 -27.468  1.00 61.40       A16S
ATOM  30424  N4   C   A1439     120.565  38.140 -26.145  1.00 61.40       A16S
ATOM  30425  C5   C   A1439     119.618  38.999 -28.167  1.00 61.40       A16S
ATOM  30426  C2* C   A1439     119.034  36.672 -32.035  1.00 52.55       A16S
ATOM  30427  O2* C   A1439     119.457  36.012 -33.210  1.00 52.55       A16S
ATOM  30428  C3* C   A1439     117.814  37.544 -32.270  1.00 52.55       A16S
ATOM  30429  O3* C   A1439     116.862  36.929 -33.108  1.00 52.55       A16S
ATOM  30430  P    C   A1440     115.715  36.034 -32.439  1.00 68.63       A16S
ATOM  30431  O1P C   A1440     114.639  35.843 -33.441  1.00 48.27       A16S
ATOM  30432  O2P C   A1440     115.391  36.625 -31.119  1.00 48.27       A16S
ATOM  30433  O5* C   A1440     116.436  34.647 -32.162  1.00 68.63       A16S
ATOM  30434  C5* C   A1440     117.015  33.902 -33.232  1.00 68.63       A16S
ATOM  30435  C4* C   A1440     117.783  32.734 -32.686  1.00 68.63       A16S
ATOM  30436  O4* C   A1440     118.902  33.218 -31.902  1.00 68.63       A16S
ATOM  30437  C1* C   A1440     119.137  32.340 -30.812  1.00 68.63       A16S
ATOM  30438  N1   C   A1440     118.927  33.070 -29.553  1.00 48.27       A16S
ATOM  30439  C6   C   A1440     118.325  34.296 -29.535  1.00 48.27       A16S
ATOM  30440  C2   C   A1440     119.327  32.468 -28.364  1.00 48.27       A16S
ATOM  30441  O2   C   A1440     119.926  31.383 -28.414  1.00 48.27       A16S
ATOM  30442  N3   C   A1440     119.062  33.080 -27.195  1.00 48.27       A16S
ATOM  30443  C4   C   A1440     118.446  34.257 -27.186  1.00 48.27       A16S
ATOM  30444  N4   C   A1440     118.174  34.804 -26.011  1.00 48.27       A16S
ATOM  30445  C5   C   A1440     118.070  34.918 -28.384  1.00 48.27       A16S
ATOM  30446  C2* C   A1440     118.133  31.195 -30.921  1.00 68.63       A16S
ATOM  30447  O2* C   A1440     118.738  30.109 -31.591  1.00 68.63       A16S
ATOM  30448  C3* C   A1440     117.017  31.844 -31.725  1.00 68.63       A16S
ATOM  30449  O3* C   A1440     116.209  30.891 -32.391  1.00 68.63       A16S
ATOM  30450  P    G   A1441     114.799  30.469 -31.748  1.00 52.77       A16S
ATOM  30451  O1P G   A1441     114.270  29.334 -32.544  1.00 64.00       A16S
ATOM  30452  O2P G   A1441     113.983  31.703 -31.605  1.00 64.00       A16S
ATOM  30453  O5* G   A1441     115.193  29.922 -30.303  1.00 52.77       A16S
ATOM  30454  C5* G   A1441     116.064  28.788 -30.161  1.00 52.77       A16S
ATOM  30455  C4* G   A1441     116.458  28.612 -28.717  1.00 52.77       A16S
ATOM  30456  O4* G   A1441     117.194  29.776 -28.266  1.00 52.77       A16S
ATOM  30457  C1* G   A1441     116.848  30.080 -26.925  1.00 52.77       A16S
ATOM  30458  N9   G   A1441     116.206  31.394 -26.921  1.00 64.00       A16S
ATOM  30459  C4   G   A1441     116.088  32.271 -25.863  1.00 64.00       A16S
ATOM  30460  N3   G   A1441     116.557  32.081 -24.618  1.00 64.00       A16S
ATOM  30461  C2   G   A1441     116.276  33.098 -23.826  1.00 64.00       A16S
ATOM  30462  N2   G   A1441     116.658  33.070 -22.552  1.00 64.00       A16S
ATOM  30463  N1   G   A1441     115.594  34.221 -24.221  1.00 64.00       A16S
ATOM  30464  C6   G   A1441     115.092  34.442 -25.497  1.00 64.00       A16S
ATOM  30465  O6   G   A1441     114.463  35.498 -25.754  1.00 64.00       A16S
ATOM  30466  C5   G   A1441     115.389  33.351 -26.362  1.00 64.00       A16S
ATOM  30467  N7   G   A1441     115.081  33.162 -27.701  1.00 64.00       A16S
ATOM  30468  C8   G   A1441     115.584  31.995 -27.989  1.00 64.00       A16S
ATOM  30469  C2* G   A1441     115.923  28.966 -26.435  1.00 52.77       A16S
ATOM  30470  O2* G   A1441     116.718  27.981 -25.813  1.00 52.77       A16S
ATOM  30471  C3* G   A1441     115.303  28.476 -27.742  1.00 52.77       A16S
ATOM  30472  O3* G   A1441     114.885  27.117 -27.677  1.00 52.77       A16S
ATOM  30473  P    G   A1442     113.334  26.736 -27.838  1.00123.20       A16S
ATOM  30474  O1P G   A1442     112.679  27.676 -28.790  1.00 81.00       A16S
ATOM  30475  O2P G   A1442     112.784  26.574 -26.466  1.00 81.00       A16S
ATOM  30476  O5* G   A1442     113.410  25.286 -28.492  1.00123.20       A16S
ATOM  30477  C5* G   A1442     113.074  25.051 -29.880  1.00123.20       A16S
ATOM  30478  C4* G   A1442     114.120  24.167 -30.542  1.00123.20       A16S
ATOM  30479  O4* G   A1442     115.161  24.974 -31.140  1.00123.20       A16S
ATOM  30480  C1* G   A1442     116.376  24.251 -31.131  1.00123.20       A16S
ATOM  30481  N9   G   A1442     117.435  25.133 -30.648  1.00 81.00       A16S
ATOM  30482  C4   G   A1442     117.838  25.366 -29.347  1.00 81.00       A16S
ATOM  30483  N3   G   A1442     117.357  24.767 -28.237  1.00 81.00       A16S
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ATOM  30484  C2  G   A1442     117.933  25.236 -27.136  1.00 81.00      A16S
ATOM  30485  N2  G   A1442     117.599  24.744 -25.937  1.00 81.00      A16S
ATOM  30486  N1  G   A1442     118.886  26.220 -27.127  1.00 81.00      A16S
ATOM  30487  C6  G   A1442     119.395  26.848 -28.256  1.00 81.00      A16S
ATOM  30488  O6  G   A1442     120.255  27.729 -28.140  1.00 81.00      A16S
ATOM  30489  C5  G   A1442     118.806  26.347 -29.440  1.00 81.00      A16S
ATOM  30490  N7  G   A1442     119.038  26.687 -30.763  1.00 81.00      A16S
ATOM  30491  C8  G   A1442     118.211  25.941 -31.440  1.00 81.00      A16S
ATOM  30492  C2* G   A1442     116.156  22.917 -30.415  1.00123.20      A16S
ATOM  30493  O2* G   A1442     116.023  21.915 -31.400  1.00123.20      A16S
ATOM  30494  C3* G   A1442     114.854  23.169 -29.654  1.00123.20      A16S
ATOM  30495  O3* G   A1442     114.108  21.965 -29.497  1.00123.20      A16S
ATOM  30496  P   G   A1443     114.129  21.190 -28.090  1.00129.96      A16S
ATOM  30497  O1P G   A1443     112.970  21.693 -27.312  1.00112.81      A16S
ATOM  30498  O2P G   A1443     115.498  21.269 -27.506  1.00112.81      A16S
ATOM  30499  O5* G   A1443     113.821  19.681 -28.500  1.00129.96      A16S
ATOM  30500  C5* G   A1443     114.588  18.584 -27.956  1.00129.96      A16S
ATOM  30501  C4* G   A1443     114.531  17.396 -28.889  1.00129.96      A16S
ATOM  30502  O4* G   A1443     113.150  16.988 -28.971  1.00129.96      A16S
ATOM  30503  C1* G   A1443     112.828  16.647 -30.295  1.00129.96      A16S
ATOM  30504  N9  G   A1443     111.666  17.440 -30.673  1.00112.81      A16S
ATOM  30505  C4  G   A1443     110.464  16.945 -31.094  1.00112.81      A16S
ATOM  30506  N3  G   A1443     110.170  15.643 -31.278  1.00112.81      A16S
ATOM  30507  C2  G   A1443     108.923  15.472 -31.668  1.00112.81      A16S
ATOM  30508  N2  G   A1443     108.465  14.237 -31.907  1.00112.81      A16S
ATOM  30509  N1  G   A1443     108.029  16.499 -31.856  1.00112.81      A16S
ATOM  30510  C6  G   A1443     108.308  17.849 -31.668  1.00112.81      A16S
ATOM  30511  O6  G   A1443     107.424  18.697 -31.855  1.00112.81      A16S
ATOM  30512  C5  G   A1443     109.650  18.047 -31.259  1.00112.81      A16S
ATOM  30513  N7  G   A1443     110.340  19.217 -30.971  1.00112.81      A16S
ATOM  30514  C8  G   A1443     111.534  18.810 -30.637  1.00112.81      A16S
ATOM  30515  C2* G   A1443     114.084  16.774 -31.162  1.00129.96      A16S
ATOM  30516  O2* G   A1443     114.616  15.480 -31.363  1.00129.96      A16S
ATOM  30517  C3* G   A1443     114.981  17.684 -30.317  1.00129.96      A16S
ATOM  30518  O3* G   A1443     116.353  17.290 -30.478  1.00129.96      A16S
ATOM  30519  P   A   A1446     117.530  18.391 -30.484  1.00129.08      A16S
ATOM  30520  O1P A   A1446     116.916  19.734 -30.598  1.00130.76      A16S
ATOM  30521  O2P A   A1446     118.551  17.970 -31.474  1.00130.76      A16S
ATOM  30522  O5* A   A1446     118.174  18.266 -29.033  1.00129.08      A16S
ATOM  30523  C5* A   A1446     117.467  18.753 -27.885  1.00129.08      A16S
ATOM  30524  C4* A   A1446     118.322  18.665 -26.655  1.00129.08      A16S
ATOM  30525  O4* A   A1446     119.595  19.284 -26.930  1.00129.08      A16S
ATOM  30526  C1* A   A1446     120.039  19.980 -25.783  1.00129.08      A16S
ATOM  30527  N9  A   A1446     120.421  21.339 -26.177  1.00130.76      A16S
ATOM  30528  C4  A   A1446     120.254  21.915 -27.417  1.00130.76      A16S
ATOM  30529  N3  A   A1446     119.636  21.385 -28.488  1.00130.76      A16S
ATOM  30530  C2  A   A1446     119.718  22.207 -29.531  1.00130.76      A16S
ATOM  30531  N1  A   A1446     120.312  23.402 -29.625  1.00130.76      A16S
ATOM  30532  C6  A   A1446     120.933  23.901 -28.533  1.00130.76      A16S
ATOM  30533  N6  A   A1446     121.562  25.075 -28.636  1.00130.76      A16S
ATOM  30534  C5  A   A1446     120.895  23.139 -27.352  1.00130.76      A16S
ATOM  30535  N7  A   A1446     121.401  23.362 -26.077  1.00130.76      A16S
ATOM  30536  C8  A   A1446     121.083  22.276 -25.417  1.00130.76      A16S
ATOM  30537  C2* A   A1446     118.996  19.823 -24.673  1.00129.08      A16S
ATOM  30538  O2* A   A1446     119.425  18.824 -23.766  1.00129.08      A16S
ATOM  30539  C3* A   A1446     117.756  19.415 -25.461  1.00129.08      A16S
ATOM  30540  O3* A   A1446     116.908  18.561 -24.702  1.00129.08      A16S
ATOM  30541  P   G   A1447     115.680  19.186 -23.873  1.00 86.31      A16S
ATOM  30542  O1P G   A1447     114.750  18.074 -23.518  1.00 67.74      A16S
ATOM  30543  O2P G   A1447     115.164  20.371 -24.632  1.00 67.74      A16S
ATOM  30544  O5* G   A1447     116.337  19.718 -22.521  1.00 86.31      A16S
ATOM  30545  C5* G   A1447     116.925  18.819 -21.569  1.00 86.31      A16S
ATOM  30546  C4* G   A1447     117.243  19.561 -20.296  1.00 86.31      A16S
ATOM  30547  O4* G   A1447     118.111  20.676 -20.618  1.00 86.31      A16S
ATOM  30548  C1* G   A1447     117.760  21.803 -19.834  1.00 86.31      A16S
ATOM  30549  N9  G   A1447     117.266  22.842 -20.732  1.00 67.74      A16S
ATOM  30550  C4  G   A1447     116.928  24.121 -20.382  1.00 67.74      A16S
ATOM  30551  N3  G   A1447     117.009  24.641 -19.149  1.00 67.74      A16S
ATOM  30552  C2  G   A1447     116.588  25.882 -19.117  1.00 67.74      A16S
ATOM  30553  N2  G   A1447     116.592  26.545 -17.959  1.00 67.74      A16S
ATOM  30554  N1  G   A1447     116.129  26.565 -20.215  1.00 67.74      A16S
ATOM  30555  C6  G   A1447     116.039  26.047 -21.498  1.00 67.74      A16S
ATOM  30556  O6  G   A1447     115.607  26.747 -22.421  1.00 67.74      A16S
ATOM  30557  C5  G   A1447     116.483  24.714 -21.542  1.00 67.74      A16S
ATOM  30558  N7  G   A1447     116.553  23.830 -22.605  1.00 67.74      A16S
ATOM  30559  C8  G   A1447     117.027  22.734 -22.080  1.00 67.74      A16S
ATOM  30560  C2* G   A1447     116.673  21.363 -18.857  1.00 86.31      A16S
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ATOM  30561  O2* G   A1447     117.256  20.980 -17.629  1.00 86.31      A16S
ATOM  30562  C3* G   A1447     116.049  20.201 -19.610  1.00 86.31      A16S
ATOM  30563  O3* G   A1447     115.382  19.305 -18.747  1.00 86.31      A16S
ATOM  30564  P    C   A1448     113.798  19.439 -18.554  1.00 66.48      A16S
ATOM  30565  O1P C   A1448     113.316  18.202 -17.899  1.00 66.87      A16S
ATOM  30566  O2P C   A1448     113.216  19.855 -19.854  1.00 66.87      A16S
ATOM  30567  O5* C   A1448     113.637  20.652 -17.538  1.00 66.48      A16S
ATOM  30568  C5* C   A1448     114.193  20.581 -16.219  1.00 66.48      A16S
ATOM  30569  C4* C   A1448     113.965  21.878 -15.481  1.00 66.48      A16S
ATOM  30570  O4* C   A1448     114.728  22.945 -16.103  1.00 66.48      A16S
ATOM  30571  C1* C   A1448     113.996  24.160 -16.038  1.00 66.48      A16S
ATOM  30572  N1   C   A1448     113.692  24.601 -17.412  1.00 66.87      A16S
ATOM  30573  C6   C   A1448     113.825  23.747 -18.469  1.00 66.87      A16S
ATOM  30574  C2   C   A1448     113.260  25.911 -17.619  1.00 66.87      A16S
ATOM  30575  O2   C   A1448     113.126  26.665 -16.641  1.00 66.87      A16S
ATOM  30576  N3   C   A1448     112.992  26.324 -18.877  1.00 66.87      A16S
ATOM  30577  C4   C   A1448     113.132  25.481 -19.900  1.00 66.87      A16S
ATOM  30578  N4   C   A1448     112.858  25.931 -21.125  1.00 66.87      A16S
ATOM  30579  C5   C   A1448     113.558  24.142 -19.715  1.00 66.87      A16S
ATOM  30580  C2* C   A1448     112.719  23.883 -15.251  1.00 66.48      A16S
ATOM  30581  O2* C   A1448     112.922  24.208 -13.889  1.00 66.48      A16S
ATOM  30582  C3* C   A1448     112.541  22.394 -15.494  1.00 66.48      A16S
ATOM  30583  O3* C   A1448     111.724  21.781 -14.530  1.00 66.48      A16S
ATOM  30584  P    C   A1449     110.198  21.465 -14.903  1.00 46.04      A16S
ATOM  30585  O1P C   A1449     109.635  20.665 -13.787  1.00 87.14      A16S
ATOM  30586  O2P C   A1449     110.145  20.933 -16.295  1.00 87.14      A16S
ATOM  30587  O5* C   A1449     109.489  22.892 -14.908  1.00 46.04      A16S
ATOM  30588  C5* C   A1449     109.437  23.701 -13.717  1.00 46.04      A16S
ATOM  30589  C4* C   A1449     108.700  24.997 -13.987  1.00 46.04      A16S
ATOM  30590  O4* C   A1449     109.504  25.888 -14.802  1.00 46.04      A16S
ATOM  30591  C1* C   A1449     108.657  26.665 -15.635  1.00 46.04      A16S
ATOM  30592  N1   C   A1449     108.986  26.387 -17.039  1.00 87.14      A16S
ATOM  30593  C6   C   A1449     109.977  25.510 -17.369  1.00 87.14      A16S
ATOM  30594  C2   C   A1449     108.244  27.017 -18.036  1.00 87.14      A16S
ATOM  30595  O2   C   A1449     107.376  27.835 -17.710  1.00 87.14      A16S
ATOM  30596  N3   C   A1449     108.488  26.720 -19.329  1.00 87.14      A16S
ATOM  30597  C4   C   A1449     109.437  25.835 -19.640  1.00 87.14      A16S
ATOM  30598  N4   C   A1449     109.627  25.544 -20.929  1.00 87.14      A16S
ATOM  30599  C5   C   A1449     110.229  25.204 -18.643  1.00 87.14      A16S
ATOM  30600  C2* C   A1449     107.216  26.270 -15.318  1.00 46.04      A16S
ATOM  30601  O2* C   A1449     106.689  27.159 -14.361  1.00 46.04      A16S
ATOM  30602  C3* C   A1449     107.397  24.875 -14.750  1.00 46.04      A16S
ATOM  30603  O3* C   A1449     106.318  24.494 -13.928  1.00 46.04      A16S
ATOM  30604  P    U   A1450     105.170  23.559 -14.540  1.00 38.74      A16S
ATOM  30605  O1P U   A1450     104.216  23.230 -13.452  1.00 63.09      A16S
ATOM  30606  O2P U   A1450     105.834  22.464 -15.296  1.00 63.09      A16S
ATOM  30607  O5* U   A1450     104.425  24.503 -15.587  1.00 38.74      A16S
ATOM  30608  C5* U   A1450     103.737  25.694 -15.149  1.00 38.74      A16S
ATOM  30609  C4* U   A1450     103.354  26.563 -16.331  1.00 38.74      A16S
ATOM  30610  O4* U   A1450     104.545  26.928 -17.083  1.00 38.74      A16S
ATOM  30611  C1* U   A1450     104.204  27.132 -18.441  1.00 38.74      A16S
ATOM  30612  N1   U   A1450     104.968  26.205 -19.292  1.00 63.09      A16S
ATOM  30613  C6   U   A1450     105.706  25.171 -18.769  1.00 63.09      A16S
ATOM  30614  C2   U   A1450     104.897  26.396 -20.657  1.00 63.09      A16S
ATOM  30615  O2   U   A1450     104.294  27.318 -21.161  1.00 63.09      A16S
ATOM  30616  N3   U   A1450     105.561  25.469 -21.413  1.00 63.09      A16S
ATOM  30617  C4   U   A1450     106.288  24.395 -20.959  1.00 63.09      A16S
ATOM  30618  O4   U   A1450     106.735  23.583 -21.771  1.00 63.09      A16S
ATOM  30619  C5   U   A1450     106.353  24.283 -19.535  1.00 63.09      A16S
ATOM  30620  C2* U   A1450     102.700  26.905 -18.571  1.00 38.74      A16S
ATOM  30621  O2* U   A1450     102.106  28.173 -18.425  1.00 38.74      A16S
ATOM  30622  C3* U   A1450     102.405  25.995 -17.383  1.00 38.74      A16S
ATOM  30623  O3* U   A1450     101.029  26.064 -16.962  1.00 38.74      A16S
ATOM  30624  P    A   A1451      99.919  25.084 -17.621  1.00 51.57      A16S
ATOM  30625  O1P A   A1451      98.878  24.830 -16.595  1.00 85.65      A16S
ATOM  30626  O2P A   A1451     100.588  23.943 -18.280  1.00 85.65      A16S
ATOM  30627  O5* A   A1451      99.263  25.982 -18.752  1.00 51.57      A16S
ATOM  30628  C5* A   A1451      97.938  25.723 -19.266  1.00 51.57      A16S
ATOM  30629  C4* A   A1451      97.232  27.036 -19.526  1.00 51.57      A16S
ATOM  30630  O4* A   A1451      96.800  27.574 -18.261  1.00 51.57      A16S
ATOM  30631  C1* A   A1451      97.130  28.944 -18.180  1.00 51.57      A16S
ATOM  30632  N9   A   A1451      98.017  29.102 -17.038  1.00 85.65      A16S
ATOM  30633  C4   A   A1451      97.870  30.010 -16.025  1.00 85.65      A16S
ATOM  30634  N3   A   A1451      96.922  30.955 -15.913  1.00 85.65      A16S
ATOM  30635  C2   A   A1451      97.078  31.639 -14.784  1.00 85.65      A16S
ATOM  30636  N1   A   A1451      98.001  31.491 -13.821  1.00 85.65      A16S
ATOM  30637  C6   A   A1451      98.936  30.524 -13.966  1.00 85.65      A16S
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ATOM  30638  N6  A  A1451      99.848  30.362 -13.000  1.00 85.65      A16S
ATOM  30639  C5  A  A1451      98.886  29.740 -15.129  1.00 85.65      A16S
ATOM  30640  N7  A  A1451      99.678  28.697 -15.588  1.00 85.65      A16S
ATOM  30641  C8  A  A1451      99.125  28.363 -16.725  1.00 85.65      A16S
ATOM  30642  C2* A  A1451      97.707  29.404 -19.519  1.00 51.57      A16S
ATOM  30643  O2* A  A1451      96.744  30.112 -20.259  1.00 51.57      A16S
ATOM  30644  C3* A  A1451      98.143  28.090 -20.140  1.00 51.57      A16S
ATOM  30645  O3* A  A1451      98.152  28.057 -21.568  1.00 51.57      A16S
ATOM  30646  P   C  A1452      96.769  28.010 -22.421  1.00 53.30      A16S
ATOM  30647  O1P C  A1452      95.830  29.094 -22.064  1.00 51.75      A16S
ATOM  30648  O2P C  A1452      96.288  26.607 -22.407  1.00 51.75      A16S
ATOM  30649  O5* C  A1452      97.291  28.288 -23.903  1.00 53.30      A16S
ATOM  30650  C5* C  A1452      98.041  29.490 -24.212  1.00 53.30      A16S
ATOM  30651  C4* C  A1452      99.359  29.163 -24.898  1.00 53.30      A16S
ATOM  30652  O4* C  A1452     100.329  28.643 -23.952  1.00 53.30      A16S
ATOM  30653  C1* C  A1452     100.925  27.492 -24.493  1.00 53.30      A16S
ATOM  30654  N1  C  A1452     101.286  26.574 -23.414  1.00 51.75      A16S
ATOM  30655  C6  C  A1452     100.516  26.462 -22.291  1.00 51.75      A16S
ATOM  30656  C2  C  A1452     102.438  25.799 -23.559  1.00 51.75      A16S
ATOM  30657  O2  C  A1452     103.115  25.911 -24.599  1.00 51.75      A16S
ATOM  30658  N3  C  A1452     102.780  24.940 -22.572  1.00 51.75      A16S
ATOM  30659  C4  C  A1452     102.015  24.835 -21.483  1.00 51.75      A16S
ATOM  30660  N4  C  A1452     102.386  23.974 -20.538  1.00 51.75      A16S
ATOM  30661  C5  C  A1452     100.838  25.608 -21.314  1.00 51.75      A16S
ATOM  30662  C2* C  A1452      99.900  26.911 -25.457  1.00 53.30      A16S
ATOM  30663  O2* C  A1452     100.552  26.077 -26.393  1.00 53.30      A16S
ATOM  30664  C3* C  A1452      99.316  28.180 -26.066  1.00 53.30      A16S
ATOM  30665  O3* C  A1452     100.206  28.616 -27.091  1.00 53.30      A16S
ATOM  30666  P   G  A1453      99.665  29.542 -28.286  1.00 56.90      A16S
ATOM  30667  O1P G  A1453      98.186  29.417 -28.444  1.00 50.32      A16S
ATOM  30668  O2P G  A1453     100.553  29.303 -29.447  1.00 50.32      A16S
ATOM  30669  O5* G  A1453      99.976  30.998 -27.748  1.00 56.90      A16S
ATOM  30670  C5* G  A1453     101.324  31.388 -27.456  1.00 56.90      A16S
ATOM  30671  C4* G  A1453     101.334  32.758 -26.846  1.00 56.90      A16S
ATOM  30672  O4* G  A1453     100.446  32.737 -25.713  1.00 56.90      A16S
ATOM  30673  C1* G  A1453     100.960  33.572 -24.706  1.00 56.90      A16S
ATOM  30674  N9  G  A1453     100.959  32.811 -23.461  1.00 50.32      A16S
ATOM  30675  C4  G  A1453     101.690  31.686 -23.174  1.00 50.32      A16S
ATOM  30676  N3  G  A1453     102.581  31.088 -23.990  1.00 50.32      A16S
ATOM  30677  C2  G  A1453     103.099  30.004 -23.439  1.00 50.32      A16S
ATOM  30678  N2  G  A1453     104.002  29.281 -24.106  1.00 50.32      A16S
ATOM  30679  N1  G  A1453     102.768  29.543 -22.195  1.00 50.32      A16S
ATOM  30680  C6  G  A1453     101.849  30.139 -21.344  1.00 50.32      A16S
ATOM  30681  O6  G  A1453     101.598  29.625 -20.253  1.00 50.32      A16S
ATOM  30682  C5  G  A1453     101.296  31.310 -21.912  1.00 50.32      A16S
ATOM  30683  N7  G  A1453     100.356  32.195 -21.404  1.00 50.32      A16S
ATOM  30684  C8  G  A1453     100.191  33.068 -22.354  1.00 50.32      A16S
ATOM  30685  C2* G  A1453     102.297  34.165 -25.185  1.00 56.90      A16S
ATOM  30686  O2* G  A1453     102.122  35.496 -25.628  1.00 56.90      A16S
ATOM  30687  C3* G  A1453     102.680  33.230 -26.325  1.00 56.90      A16S
ATOM  30688  O3* G  A1453     103.356  33.952 -27.351  1.00 56.90      A16S
ATOM  30689  P   G  A1454     104.829  33.506 -27.809  1.00 45.61      A16S
ATOM  30690  O1P G  A1454     105.168  34.322 -28.995  1.00 49.85      A16S
ATOM  30691  O2P G  A1454     104.865  32.035 -27.917  1.00 49.85      A16S
ATOM  30692  O5* G  A1454     105.777  33.915 -26.591  1.00 45.61      A16S
ATOM  30693  C5* G  A1454     105.700  35.221 -26.001  1.00 45.61      A16S
ATOM  30694  C4* G  A1454     105.829  35.133 -24.500  1.00 45.61      A16S
ATOM  30695  O4* G  A1454     105.014  34.026 -24.030  1.00 45.61      A16S
ATOM  30696  C1* G  A1454     105.622  33.418 -22.894  1.00 45.61      A16S
ATOM  30697  N9  G  A1454     106.066  32.072 -23.246  1.00 49.85      A16S
ATOM  30698  C4  G  A1454     106.546  31.117 -22.376  1.00 49.85      A16S
ATOM  30699  N3  G  A1454     106.616  31.229 -21.034  1.00 49.85      A16S
ATOM  30700  C2  G  A1454     107.164  30.161 -20.477  1.00 49.85      A16S
ATOM  30701  N2  G  A1454     107.314  30.105 -19.154  1.00 49.85      A16S
ATOM  30702  N1  G  A1454     107.608  29.071 -21.180  1.00 49.85      A16S
ATOM  30703  C6  G  A1454     107.546  28.934 -22.562  1.00 49.85      A16S
ATOM  30704  O6  G  A1454     107.982  27.907 -23.104  1.00 49.85      A16S
ATOM  30705  C5  G  A1454     106.956  30.072 -23.172  1.00 49.85      A16S
ATOM  30706  N7  G  A1454     106.700  30.342 -24.509  1.00 49.85      A16S
ATOM  30707  C8  G  A1454     106.158  31.529 -24.503  1.00 49.85      A16S
ATOM  30708  C2* G  A1454     106.863  34.237 -22.569  1.00 45.61      A16S
ATOM  30709  O2* G  A1454     106.528  35.207 -21.600  1.00 45.61      A16S
ATOM  30710  C3* G  A1454     107.201  34.814 -23.936  1.00 45.61      A16S
ATOM  30711  O3* G  A1454     108.045  35.936 -23.819  1.00 45.61      A16S
ATOM  30712  P   G  A1455     109.623  35.709 -23.608  1.00 31.51      A16S
ATOM  30713  O1P G  A1455     110.309  37.012 -23.808  1.00 55.60      A16S
ATOM  30714  O2P G  A1455     110.045  34.523 -24.408  1.00 55.60      A16S
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ATOM  30715  O5*  G   A1455      109.762  35.364 -22.064  1.00 31.51       A16S
ATOM  30716  C5*  G   A1455      109.442  36.344 -21.074  1.00 31.51       A16S
ATOM  30717  C4*  G   A1455      109.623  35.760 -19.708  1.00 31.51       A16S
ATOM  30718  O4*  G   A1455      108.808  34.560 -19.617  1.00 31.51       A16S
ATOM  30719  C1*  G   A1455      109.515  33.551 -18.907  1.00 31.51       A16S
ATOM  30720  N9   G   A1455      109.764  32.433 -19.816  1.00 55.60       A16S
ATOM  30721  C4   G   A1455      110.345  31.221 -19.500  1.00 55.60       A16S
ATOM  30722  N3   G   A1455      110.754  30.831 -18.280  1.00 55.60       A16S
ATOM  30723  C2   G   A1455      111.292  29.631 -18.302  1.00 55.60       A16S
ATOM  30724  N2   G   A1455      111.739  29.082 -17.171  1.00 55.60       A16S
ATOM  30725  N1   G   A1455      111.429  28.879 -19.431  1.00 55.60       A16S
ATOM  30726  C6   G   A1455      111.018  29.260 -20.698  1.00 55.60       A16S
ATOM  30727  O6   G   A1455      111.202  28.506 -21.662  1.00 55.60       A16S
ATOM  30728  C5   G   A1455      110.425  30.536 -20.686  1.00 55.60       A16S
ATOM  30729  N7   G   A1455      109.883  31.280 -21.723  1.00 55.60       A16S
ATOM  30730  C8   G   A1455      109.500  32.392 -21.161  1.00 55.60       A16S
ATOM  30731  C2*  G   A1455      110.832  34.166 -18.428  1.00 31.51       A16S
ATOM  30732  O2*  G   A1455      110.727  34.618 -17.091  1.00 31.51       A16S
ATOM  30733  C3*  G   A1455      111.032  35.275 -19.446  1.00 31.51       A16S
ATOM  30734  O3*  G   A1455      111.910  36.281 -19.002  1.00 31.51       A16S
ATOM  30735  P    C   A1459      113.466  36.142 -19.341  1.00 46.55       A16S
ATOM  30736  O1P  C   A1459      114.189  37.343 -18.863  1.00 42.69       A16S
ATOM  30737  O2P  C   A1459      113.607  35.710 -20.759  1.00 42.69       A16S
ATOM  30738  O5*  C   A1459      113.923  34.918 -18.445  1.00 46.55       A16S
ATOM  30739  C5*  C   A1459      113.779  34.964 -17.027  1.00 46.55       A16S
ATOM  30740  C4*  C   A1459      114.346  33.714 -16.421  1.00 46.55       A16S
ATOM  30741  O4*  C   A1459      113.561  32.582 -16.860  1.00 46.55       A16S
ATOM  30742  C1*  C   A1459      114.398  31.454 -17.028  1.00 46.55       A16S
ATOM  30743  N1   C   A1459      114.312  30.980 -18.425  1.00 42.69       A16S
ATOM  30744  C6   C   A1459      113.598  31.660 -19.364  1.00 42.69       A16S
ATOM  30745  C2   C   A1459      114.983  29.812 -18.772  1.00 42.69       A16S
ATOM  30746  O2   C   A1459      115.626  29.210 -17.900  1.00 42.69       A16S
ATOM  30747  N3   C   A1459      114.921  29.362 -20.044  1.00 42.69       A16S
ATOM  30748  C4   C   A1459      114.223  30.032 -20.950  1.00 42.69       A16S
ATOM  30749  N4   C   A1459      114.190  29.551 -22.194  1.00 42.69       A16S
ATOM  30750  C5   C   A1459      113.527  31.225 -20.625  1.00 42.69       A16S
ATOM  30751  C2*  C   A1459      115.808  31.875 -16.629  1.00 46.55       A16S
ATOM  30752  O2*  C   A1459      116.003  31.560 -15.265  1.00 46.55       A16S
ATOM  30753  C3*  C   A1459      115.754  33.372 -16.860  1.00 46.55       A16S
ATOM  30754  O3*  C   A1459      116.731  34.057 -16.107  1.00 46.55       A16S
ATOM  30755  P    A   A1460      118.179  34.306 -16.749  1.00 55.63       A16S
ATOM  30756  O1P  A   A1460      118.962  35.079 -15.746  1.00 58.97       A16S
ATOM  30757  O2P  A   A1460      117.971  34.862 -18.109  1.00 58.97       A16S
ATOM  30758  O5*  A   A1460      118.805  32.841 -16.887  1.00 55.63       A16S
ATOM  30759  C5*  A   A1460      118.999  32.008 -15.713  1.00 55.63       A16S
ATOM  30760  C4*  A   A1460      119.463  30.609 -16.087  1.00 55.63       A16S
ATOM  30761  O4*  A   A1460      118.431  29.897 -16.813  1.00 55.63       A16S
ATOM  30762  C1*  A   A1460      119.028  28.987 -17.715  1.00 55.63       A16S
ATOM  30763  N9   A   A1460      118.607  29.330 -19.064  1.00 58.97       A16S
ATOM  30764  C4   A   A1460      118.738  28.540 -20.177  1.00 58.97       A16S
ATOM  30765  N3   A   A1460      119.276  27.311 -20.250  1.00 58.97       A16S
ATOM  30766  C2   A   A1460      119.225  26.849 -21.497  1.00 58.97       A16S
ATOM  30767  N1   A   A1460      118.733  27.431 -22.593  1.00 58.97       A16S
ATOM  30768  C6   A   A1460      118.198  28.665 -22.481  1.00 58.97       A16S
ATOM  30769  N6   A   A1460      117.700  29.251 -23.571  1.00 58.97       A16S
ATOM  30770  C5   A   A1460      118.194  29.263 -21.216  1.00 58.97       A16S
ATOM  30771  N7   A   A1460      117.733  30.489 -20.768  1.00 58.97       A16S
ATOM  30772  C8   A   A1460      118.007  30.479 -19.489  1.00 58.97       A16S
ATOM  30773  C2*  A   A1460      120.540  29.096 -17.563  1.00 55.63       A16S
ATOM  30774  O2*  A   A1460      120.966  28.058 -16.707  1.00 55.63       A16S
ATOM  30775  C3*  A   A1460      120.695  30.489 -16.964  1.00 55.63       A16S
ATOM  30776  O3*  A   A1460      121.897  30.613 -16.214  1.00 55.63       A16S
ATOM  30777  P    G   A1461      123.154  31.380 -16.858  1.00 54.62       A16S
ATOM  30778  O1P  G   A1461      124.334  31.141 -15.987  1.00 66.66       A16S
ATOM  30779  O2P  G   A1461      122.723  32.775 -17.155  1.00 66.66       A16S
ATOM  30780  O5*  G   A1461      123.409  30.616 -18.232  1.00 54.62       A16S
ATOM  30781  C5*  G   A1461      123.858  29.259 -18.227  1.00 54.62       A16S
ATOM  30782  C4*  G   A1461      123.749  28.663 -19.603  1.00 54.62       A16S
ATOM  30783  O4*  G   A1461      122.370  28.701 -20.044  1.00 54.62       A16S
ATOM  30784  C1*  G   A1461      122.326  28.844 -21.449  1.00 54.62       A16S
ATOM  30785  N9   G   A1461      121.617  30.074 -21.758  1.00 66.66       A16S
ATOM  30786  C4   G   A1461      121.224  30.485 -23.002  1.00 66.66       A16S
ATOM  30787  N3   G   A1461      121.404  29.808 -24.151  1.00 66.66       A16S
ATOM  30788  C2   G   A1461      120.928  30.469 -25.189  1.00 66.66       A16S
ATOM  30789  N2   G   A1461      121.026  29.947 -26.417  1.00 66.66       A16S
ATOM  30790  N1   G   A1461      120.324  31.691 -25.102  1.00 66.66       A16S
ATOM  30791  C6   G   A1461      120.135  32.404 -23.927  1.00 66.66       A16S
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ATOM  30792  O6  G   A1461     119.585  33.504 -23.958  1.00 66.66      A16S
ATOM  30793  C5  G   A1461     120.638  31.712 -22.812  1.00 66.66      A16S
ATOM  30794  N7  G   A1461     120.653  32.062 -21.471  1.00 66.66      A16S
ATOM  30795  C8  G   A1461     121.237  31.058 -20.883  1.00 66.66      A16S
ATOM  30796  C2* G   A1461     123.764  28.919 -21.959  1.00 54.62      A16S
ATOM  30797  O2* G   A1461     124.160  27.647 -22.421  1.00 54.62      A16S
ATOM  30798  C3* G   A1461     124.514  29.363 -20.711  1.00 54.62      A16S
ATOM  30799  O3* G   A1461     125.884  28.973 -20.738  1.00 54.62      A16S
ATOM  30800  P   G   A1462     126.974  29.953 -21.398  1.00 66.80      A16S
ATOM  30801  O1P G   A1462     128.288  29.268 -21.283  1.00 52.23      A16S
ATOM  30802  O2P G   A1462     126.813  31.342 -20.869  1.00 52.23      A16S
ATOM  30803  O5* G   A1462     126.555  29.966 -22.928  1.00 66.80      A16S
ATOM  30804  C5* G   A1462     126.604  28.765 -23.700  1.00 66.80      A16S
ATOM  30805  C4* G   A1462     126.324  29.073 -25.142  1.00 66.80      A16S
ATOM  30806  O4* G   A1462     124.925  29.403 -25.314  1.00 66.80      A16S
ATOM  30807  C1* G   A1462     124.793  30.372 -26.335  1.00 66.80      A16S
ATOM  30808  N9  G   A1462     124.111  31.540 -25.788  1.00 52.23      A16S
ATOM  30809  C4  G   A1462     123.429  32.480 -26.517  1.00 52.23      A16S
ATOM  30810  N3  G   A1462     123.251  32.458 -27.848  1.00 52.23      A16S
ATOM  30811  C2  G   A1462     122.561  33.493 -28.267  1.00 52.23      A16S
ATOM  30812  N2  G   A1462     122.286  33.609 -29.574  1.00 52.23      A16S
ATOM  30813  N1  G   A1462     122.088  34.484 -27.441  1.00 52.23      A16S
ATOM  30814  C6  G   A1462     122.260  34.526 -26.067  1.00 52.23      A16S
ATOM  30815  O6  G   A1462     121.796  35.463 -25.420  1.00 52.23      A16S
ATOM  30816  C5  G   A1462     122.993  33.411 -25.604  1.00 52.23      A16S
ATOM  30817  N7  G   A1462     123.376  33.055 -24.318  1.00 52.23      A16S
ATOM  30818  C8  G   A1462     124.034  31.937 -24.474  1.00 52.23      A16S
ATOM  30819  C2* G   A1462     126.193  30.708 -26.854  1.00 66.80      A16S
ATOM  30820  O2* G   A1462     126.462  29.970 -28.024  1.00 66.80      A16S
ATOM  30821  C3* G   A1462     127.064  30.277 -25.687  1.00 66.80      A16S
ATOM  30822  O3* G   A1462     128.373  29.944 -26.084  1.00 66.80      A16S
ATOM  30823  P   C   A1463     129.456  31.107 -26.250  1.00 55.85      A16S
ATOM  30824  O1P C   A1463     130.714  30.454 -26.694  1.00 66.87      A16S
ATOM  30825  O2P C   A1463     129.461  31.964 -25.031  1.00 66.87      A16S
ATOM  30826  O5* C   A1463     128.901  31.941 -27.483  1.00 55.85      A16S
ATOM  30827  C5* C   A1463     128.946  31.376 -28.790  1.00 55.85      A16S
ATOM  30828  C4* C   A1463     128.330  32.306 -29.795  1.00 55.85      A16S
ATOM  30829  O4* C   A1463     126.920  32.469 -29.517  1.00 55.85      A16S
ATOM  30830  C1* C   A1463     126.508  33.758 -29.930  1.00 55.85      A16S
ATOM  30831  N1  C   A1463     126.027  34.500 -28.759  1.00 66.87      A16S
ATOM  30832  C6  C   A1463     126.484  34.211 -27.504  1.00 66.87      A16S
ATOM  30833  C2  C   A1463     125.104  35.529 -28.953  1.00 66.87      A16S
ATOM  30834  O2  C   A1463     124.687  35.756 -30.103  1.00 66.87      A16S
ATOM  30835  N3  C   A1463     124.688  36.247 -27.891  1.00 66.87      A16S
ATOM  30836  C4  C   A1463     125.152  35.963 -26.674  1.00 66.87      A16S
ATOM  30837  N4  C   A1463     124.724  36.700 -25.657  1.00 66.87      A16S
ATOM  30838  C5  C   A1463     126.078  34.911 -26.446  1.00 66.87      A16S
ATOM  30839  C2* C   A1463     127.720  34.459 -30.533  1.00 55.85      A16S
ATOM  30840  O2* C   A1463     127.702  34.269 -31.934  1.00 55.85      A16S
ATOM  30841  C3* C   A1463     128.863  33.724 -29.851  1.00 55.85      A16S
ATOM  30842  O3* C   A1463     130.063  33.820 -30.594  1.00 55.85      A16S
ATOM  30843  P   G   A1464     131.114  34.990 -30.253  1.00 63.47      A16S
ATOM  30844  O1P G   A1464     132.254  34.790 -31.187  1.00 59.44      A16S
ATOM  30845  O2P G   A1464     131.367  35.007 -28.782  1.00 59.44      A16S
ATOM  30846  O5* G   A1464     130.346  36.328 -30.663  1.00 63.47      A16S
ATOM  30847  C5* G   A1464     129.946  36.530 -32.023  1.00 63.47      A16S
ATOM  30848  C4* G   A1464     129.133  37.795 -32.177  1.00 63.47      A16S
ATOM  30849  O4* G   A1464     127.882  37.694 -31.455  1.00 63.47      A16S
ATOM  30850  C1* G   A1464     127.476  38.982 -31.028  1.00 63.47      A16S
ATOM  30851  N9  G   A1464     127.424  38.976 -29.572  1.00 59.44      A16S
ATOM  30852  C4  G   A1464     126.796  39.895 -28.772  1.00 59.44      A16S
ATOM  30853  N3  G   A1464     126.106  40.962 -29.195  1.00 59.44      A16S
ATOM  30854  C2  G   A1464     125.635  41.664 -28.194  1.00 59.44      A16S
ATOM  30855  N2  G   A1464     124.932  42.763 -28.442  1.00 59.44      A16S
ATOM  30856  N1  G   A1464     125.820  41.346 -26.879  1.00 59.44      A16S
ATOM  30857  C6  G   A1464     126.529  40.252 -26.419  1.00 59.44      A16S
ATOM  30858  O6  G   A1464     126.645  40.059 -25.209  1.00 59.44      A16S
ATOM  30859  C5  G   A1464     127.042  39.489 -27.483  1.00 59.44      A16S
ATOM  30860  N7  G   A1464     127.806  38.332 -27.469  1.00 59.44      A16S
ATOM  30861  C8  G   A1464     128.006  38.063 -28.729  1.00 59.44      A16S
ATOM  30862  C2* G   A1464     128.513  39.981 -31.537  1.00 63.47      A16S
ATOM  30863  O2* G   A1464     128.106  40.506 -32.786  1.00 63.47      A16S
ATOM  30864  C3* G   A1464     129.738  39.095 -31.687  1.00 63.47      A16S
ATOM  30865  O3* G   A1464     130.642  39.651 -32.611  1.00 63.47      A16S
ATOM  30866  P   C   A1465     131.784  40.634 -32.079  1.00 53.01      A16S
ATOM  30867  O1P C   A1465     132.738  40.777 -33.205  1.00 55.86      A16S
ATOM  30868  O2P C   A1465     132.274  40.147 -30.753  1.00 55.86      A16S
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ATOM  30869  O5* C   A1465     131.016  42.017 -31.876  1.00 53.01      A16S
ATOM  30870  C5* C   A1465     130.495  42.733 -33.011  1.00 53.01      A16S
ATOM  30871  C4* C   A1465     129.888  44.049 -32.588  1.00 53.01      A16S
ATOM  30872  O4* C   A1465     128.696  43.802 -31.805  1.00 53.01      A16S
ATOM  30873  C1* C   A1465     128.551  44.819 -30.824  1.00 53.01      A16S
ATOM  30874  N1  C   A1465     128.533  44.198 -29.480  1.00 55.86      A16S
ATOM  30875  C6  C   A1465     129.181  43.020 -29.245  1.00 55.86      A16S
ATOM  30876  C2  C   A1465     127.840  44.847 -28.431  1.00 55.86      A16S
ATOM  30877  O2  C   A1465     127.246  45.920 -28.655  1.00 55.86      A16S
ATOM  30878  N3  C   A1465     127.836  44.287 -27.203  1.00 55.86      A16S
ATOM  30879  C4  C   A1465     128.476  43.138 -26.992  1.00 55.86      A16S
ATOM  30880  N4  C   A1465     128.443  42.624 -25.761  1.00 55.86      A16S
ATOM  30881  C5  C   A1465     129.178  42.461 -28.030  1.00 55.86      A16S
ATOM  30882  C2* C   A1465     129.711  45.804 -30.999  1.00 53.01      A16S
ATOM  30883  O2* C   A1465     129.318  46.923 -31.771  1.00 53.01      A16S
ATOM  30884  C3* C   A1465     130.745  44.943 -31.708  1.00 53.01      A16S
ATOM  30885  O3* C   A1465     131.646  45.753 -32.441  1.00 53.01      A16S
ATOM  30886  P   C   A1466     133.007  46.253 -31.743  1.00 57.91      A16S
ATOM  30887  O1P C   A1466     133.663  47.192 -32.686  1.00 78.45      A16S
ATOM  30888  O2P C   A1466     133.752  45.059 -31.246  1.00 78.45      A16S
ATOM  30889  O5* C   A1466     132.518  47.109 -30.500  1.00 57.91      A16S
ATOM  30890  C5* C   A1466     131.722  48.265 -30.708  1.00 57.91      A16S
ATOM  30891  C4* C   A1466     131.235  48.800 -29.397  1.00 57.91      A16S
ATOM  30892  O4* C   A1466     130.394  47.816 -28.752  1.00 57.91      A16S
ATOM  30893  C1* C   A1466     130.522  47.939 -27.345  1.00 57.91      A16S
ATOM  30894  N1  C   A1466     130.857  46.627 -26.767  1.00 78.45      A16S
ATOM  30895  C6  C   A1466     131.651  45.738 -27.435  1.00 78.45      A16S
ATOM  30896  C2  C   A1466     130.344  46.305 -25.507  1.00 78.45      A16S
ATOM  30897  O2  C   A1466     129.617  47.129 -24.922  1.00 78.45      A16S
ATOM  30898  N3  C   A1466     130.650  45.109 -24.957  1.00 78.45      A16S
ATOM  30899  C4  C   A1466     131.428  44.250 -25.617  1.00 78.45      A16S
ATOM  30900  N4  C   A1466     131.704  43.082 -25.034  1.00 78.45      A16S
ATOM  30901  C5  C   A1466     131.958  44.550 -26.902  1.00 78.45      A16S
ATOM  30902  C2* C   A1466     131.561  49.022 -27.056  1.00 57.91      A16S
ATOM  30903  O2* C   A1466     130.894  50.229 -26.757  1.00 57.91      A16S
ATOM  30904  C3* C   A1466     132.315  49.091 -28.376  1.00 57.91      A16S
ATOM  30905  O3* C   A1466     132.901  50.358 -28.594  1.00 57.91      A16S
ATOM  30906  P   G   A1467     134.489  50.522 -28.434  1.00 60.41      A16S
ATOM  30907  O1P G   A1467     134.797  51.959 -28.658  1.00 66.75      A16S
ATOM  30908  O2P G   A1467     135.157  49.486 -29.277  1.00 66.75      A16S
ATOM  30909  O5* G   A1467     134.748  50.156 -26.901  1.00 60.41      A16S
ATOM  30910  C5* G   A1467     134.042  50.849 -25.854  1.00 60.41      A16S
ATOM  30911  C4* G   A1467     134.156  50.104 -24.549  1.00 60.41      A16S
ATOM  30912  O4* G   A1467     133.460  48.841 -24.648  1.00 60.41      A16S
ATOM  30913  C1* G   A1467     134.141  47.862 -23.884  1.00 60.41      A16S
ATOM  30914  N9  G   A1467     134.575  46.797 -24.782  1.00 66.75      A16S
ATOM  30915  C4  G   A1467     134.669  45.458 -24.488  1.00 66.75      A16S
ATOM  30916  N3  G   A1467     134.372  44.884 -23.309  1.00 66.75      A16S
ATOM  30917  C2  G   A1467     134.558  43.577 -23.337  1.00 66.75      A16S
ATOM  30918  N2  G   A1467     134.296  42.844 -22.252  1.00 66.75      A16S
ATOM  30919  N1  G   A1467     135.008  42.886 -24.431  1.00 66.75      A16S
ATOM  30920  C6  G   A1467     135.318  43.452 -25.658  1.00 66.75      A16S
ATOM  30921  O6  G   A1467     135.705  42.731 -26.589  1.00 66.75      A16S
ATOM  30922  C5  G   A1467     135.120  44.860 -25.643  1.00 66.75      A16S
ATOM  30923  N7  G   A1467     135.309  45.803 -26.643  1.00 66.75      A16S
ATOM  30924  C8  G   A1467     134.974  46.935 -26.088  1.00 66.75      A16S
ATOM  30925  C2* G   A1467     135.318  48.547 -23.195  1.00 60.41      A16S
ATOM  30926  O2* G   A1467     134.911  48.936 -21.903  1.00 60.41      A16S
ATOM  30927  C3* G   A1467     135.562  49.736 -24.115  1.00 60.41      A16S
ATOM  30928  O3* G   A1467     136.214  50.814 -23.456  1.00 60.41      A16S
ATOM  30929  P   A   A1468     137.822  50.922 -23.499  1.00 56.83      A16S
ATOM  30930  O1P A   A1468     138.135  52.339 -23.811  1.00 50.32      A16S
ATOM  30931  O2P A   A1468     138.382  49.850 -24.358  1.00 50.32      A16S
ATOM  30932  O5* A   A1468     138.266  50.614 -21.998  1.00 56.83      A16S
ATOM  30933  C5* A   A1468     137.822  51.450 -20.909  1.00 56.83      A16S
ATOM  30934  C4* A   A1468     138.272  50.885 -19.581  1.00 56.83      A16S
ATOM  30935  O4* A   A1468     137.652  49.596 -19.356  1.00 56.83      A16S
ATOM  30936  C1* A   A1468     138.530  48.762 -18.622  1.00 56.83      A16S
ATOM  30937  N9  A   A1468     138.811  47.562 -19.403  1.00 50.32      A16S
ATOM  30938  C4  A   A1468     139.146  46.337 -18.887  1.00 50.32      A16S
ATOM  30939  N3  A   A1468     139.270  46.009 -17.592  1.00 50.32      A16S
ATOM  30940  C2  A   A1468     139.616  44.735 -17.467  1.00 50.32      A16S
ATOM  30941  N1  A   A1468     139.832  43.821 -18.417  1.00 50.32      A16S
ATOM  30942  C6  A   A1468     139.688  44.186 -19.709  1.00 50.32      A16S
ATOM  30943  N6  A   A1468     139.885  43.274 -20.661  1.00 50.32      A16S
ATOM  30944  C5  A   A1468     139.332  45.508 -19.974  1.00 50.32      A16S
ATOM  30945  N7  A   A1468     139.113  46.192 -21.159  1.00 50.32      A16S
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ATOM  30946  C8  A  A1468     138.807  47.404 -20.768  1.00 50.32      A16S
ATOM  30947  C2* A  A1468     139.794  49.558 -18.327  1.00 56.83      A16S
ATOM  30948  O2* A  A1468     139.669  50.062 -17.017  1.00 56.83      A16S
ATOM  30949  C3* A  A1468     139.758  50.622 -19.422  1.00 56.83      A16S
ATOM  30950  O3* A  A1468     140.446  51.807 -19.045  1.00 56.83      A16S
ATOM  30951  P   G  A1469     141.907  52.110 -19.647  1.00 62.16      A16S
ATOM  30952  O1P G  A1469     142.532  53.077 -18.701  1.00 59.58      A16S
ATOM  30953  O2P G  A1469     141.766  52.469 -21.077  1.00 59.58      A16S
ATOM  30954  O5* G  A1469     142.687  50.723 -19.530  1.00 62.16      A16S
ATOM  30955  C5* G  A1469     143.075  50.224 -18.237  1.00 62.16      A16S
ATOM  30956  C4* G  A1469     143.371  48.745 -18.293  1.00 62.16      A16S
ATOM  30957  O4* G  A1469     142.233  48.050 -18.858  1.00 62.16      A16S
ATOM  30958  C1* G  A1469     142.678  46.942 -19.622  1.00 62.16      A16S
ATOM  30959  N9  G  A1469     142.393  47.218 -21.023  1.00 59.58      A16S
ATOM  30960  C4  G  A1469     142.523  46.338 -22.069  1.00 59.58      A16S
ATOM  30961  N3  G  A1469     142.898  45.047 -21.976  1.00 59.58      A16S
ATOM  30962  C2  G  A1469     142.945  44.462 -23.158  1.00 59.58      A16S
ATOM  30963  N2  G  A1469     143.287  43.170 -23.246  1.00 59.58      A16S
ATOM  30964  N1  G  A1469     142.657  45.101 -24.339  1.00 59.58      A16S
ATOM  30965  C6  G  A1469     142.278  46.434 -24.454  1.00 59.58      A16S
ATOM  30966  O6  G  A1469     142.060  46.920 -25.562  1.00 59.58      A16S
ATOM  30967  C5  G  A1469     142.209  47.064 -23.197  1.00 59.58      A16S
ATOM  30968  N7  G  A1469     141.867  48.368 -22.867  1.00 59.58      A16S
ATOM  30969  C8  G  A1469     141.985  48.412 -21.567  1.00 59.58      A16S
ATOM  30970  C2* G  A1469     144.189  46.856 -19.447  1.00 62.16      A16S
ATOM  30971  O2* G  A1469     144.512  46.007 -18.361  1.00 62.16      A16S
ATOM  30972  C3* G  A1469     144.531  48.306 -19.167  1.00 62.16      A16S
ATOM  30973  O3* G  A1469     145.781  48.411 -18.530  1.00 62.16      A16S
ATOM  30974  P   G  A1470     147.089  48.669 -19.417  1.00 78.93      A16S
ATOM  30975  O1P G  A1470     148.122  49.043 -18.434  1.00 54.78      A16S
ATOM  30976  O2P G  A1470     146.766  49.597 -20.528  1.00 54.78      A16S
ATOM  30977  O5* G  A1470     147.420  47.247 -20.058  1.00 78.93      A16S
ATOM  30978  C5* G  A1470     147.769  46.118 -19.229  1.00 78.93      A16S
ATOM  30979  C4* G  A1470     148.072  44.898 -20.080  1.00 78.93      A16S
ATOM  30980  O4* G  A1470     146.851  44.388 -20.689  1.00 78.93      A16S
ATOM  30981  C1* G  A1470     147.110  43.973 -22.023  1.00 78.93      A16S
ATOM  30982  N9  G  A1470     146.521  44.972 -22.904  1.00 54.78      A16S
ATOM  30983  C4  G  A1470     146.218  44.838 -24.237  1.00 54.78      A16S
ATOM  30984  N3  G  A1470     146.396  43.734 -24.991  1.00 54.78      A16S
ATOM  30985  C2  G  A1470     146.003  43.927 -26.245  1.00 54.78      A16S
ATOM  30986  N2  G  A1470     146.103  42.944 -27.135  1.00 54.78      A16S
ATOM  30987  N1  G  A1470     145.480  45.100 -26.719  1.00 54.78      A16S
ATOM  30988  C6  G  A1470     145.286  46.248 -25.960  1.00 54.78      A16S
ATOM  30989  O6  G  A1470     144.794  47.263 -26.480  1.00 54.78      A16S
ATOM  30990  C5  G  A1470     145.706  46.062 -24.617  1.00 54.78      A16S
ATOM  30991  N7  G  A1470     145.693  46.944 -23.548  1.00 54.78      A16S
ATOM  30992  C8  G  A1470     146.180  46.256 -22.557  1.00 54.78      A16S
ATOM  30993  C2* G  A1470     148.623  44.003 -22.204  1.00 78.93      A16S
ATOM  30994  O2* G  A1470     149.189  42.754 -21.850  1.00 78.93      A16S
ATOM  30995  C3* G  A1470     149.012  45.123 -21.250  1.00 78.93      A16S
ATOM  30996  O3* G  A1470     150.382  45.089 -20.904  1.00 78.93      A16S
ATOM  30997  P   G  A1471     151.439  45.832 -21.854  1.00 81.49      A16S
ATOM  30998  O1P G  A1471     152.758  45.714 -21.197  1.00 79.22      A16S
ATOM  30999  O2P G  A1471     150.902  47.176 -22.183  1.00 79.22      A16S
ATOM  31000  O5* G  A1471     151.444  44.965 -23.194  1.00 81.49      A16S
ATOM  31001  C5* G  A1471     151.674  43.538 -23.145  1.00 81.49      A16S
ATOM  31002  C4* G  A1471     151.484  42.908 -24.512  1.00 81.49      A16S
ATOM  31003  O4* G  A1471     150.124  43.102 -24.965  1.00 81.49      A16S
ATOM  31004  C1* G  A1471     150.108  43.245 -26.370  1.00 81.49      A16S
ATOM  31005  N9  G  A1471     149.484  44.522 -26.702  1.00 79.22      A16S
ATOM  31006  C4  G  A1471     149.061  44.907 -27.945  1.00 79.22      A16S
ATOM  31007  N3  G  A1471     149.189  44.187 -29.077  1.00 79.22      A16S
ATOM  31008  C2  G  A1471     148.667  44.808 -30.116  1.00 79.22      A16S
ATOM  31009  N2  G  A1471     148.720  44.237 -31.321  1.00 79.22      A16S
ATOM  31010  N1  G  A1471     148.057  46.038 -30.051  1.00 79.22      A16S
ATOM  31011  C6  G  A1471     147.913  46.800 -28.895  1.00 79.22      A16S
ATOM  31012  O6  G  A1471     147.337  47.897 -28.944  1.00 79.22      A16S
ATOM  31013  C5  G  A1471     148.483  46.147 -27.770  1.00 79.22      A16S
ATOM  31014  N7  G  A1471     148.571  46.548 -26.444  1.00 79.22      A16S
ATOM  31015  C8  G  A1471     149.177  45.556 -25.849  1.00 79.22      A16S
ATOM  31016  C2* G  A1471     151.539  43.101 -26.883  1.00 81.49      A16S
ATOM  31017  O2* G  A1471     151.726  41.771 -27.319  1.00 81.49      A16S
ATOM  31018  C3* G  A1471     152.350  43.447 -25.638  1.00 81.49      A16S
ATOM  31019  O3* G  A1471     153.629  42.822 -25.634  1.00 81.49      A16S
ATOM  31020  P   U  A1472     154.933  43.675 -26.023  1.00111.02      A16S
ATOM  31021  O1P U  A1472     156.099  42.888 -25.540  1.00 72.14      A16S
ATOM  31022  O2P U  A1472     154.762  45.080 -25.574  1.00 72.14      A16S
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ATOM  31023  O5* U   A1472     154.913  43.667 -27.615  1.00111.02      A16S
ATOM  31024  C5* U   A1472     155.332  42.502 -28.343  1.00111.02      A16S
ATOM  31025  C4* U   A1472     155.298  42.766 -29.828  1.00111.02      A16S
ATOM  31026  O4* U   A1472     153.923  42.847 -30.279  1.00111.02      A16S
ATOM  31027  C1* U   A1472     153.832  43.761 -31.358  1.00111.02      A16S
ATOM  31028  N1  U   A1472     152.912  44.843 -30.984  1.00 72.14      A16S
ATOM  31029  C6  U   A1472     152.927  45.391 -29.719  1.00 72.14      A16S
ATOM  31030  C2  U   A1472     152.046  45.314 -31.954  1.00 72.14      A16S
ATOM  31031  O2  U   A1472     151.976  44.829 -33.074  1.00 72.14      A16S
ATOM  31032  N3  U   A1472     151.261  46.373 -31.563  1.00 72.14      A16S
ATOM  31033  C4  U   A1472     151.250  46.986 -30.323  1.00 72.14      A16S
ATOM  31034  O4  U   A1472     150.542  47.975 -30.143  1.00 72.14      A16S
ATOM  31035  C5  U   A1472     152.148  46.416 -29.367  1.00 72.14      A16S
ATOM  31036  C2* U   A1472     155.237  44.301 -31.640  1.00111.02      A16S
ATOM  31037  O2* U   A1472     155.825  43.592 -32.712  1.00111.02      A16S
ATOM  31038  C3* U   A1472     155.934  44.064 -30.306  1.00111.02      A16S
ATOM  31039  O3* U   A1472     157.350  43.979 -30.438  1.00111.02      A16S
ATOM  31040  P   A   A1473     158.232  45.328 -30.443  1.00143.46      A16S
ATOM  31041  O1P A   A1473     159.644  44.894 -30.602  1.00107.39      A16S
ATOM  31042  O2P A   A1473     157.859  46.181 -29.283  1.00107.39      A16S
ATOM  31043  O5* A   A1473     157.772  46.069 -31.779  1.00143.46      A16S
ATOM  31044  C5* A   A1473     157.964  45.441 -33.059  1.00143.46      A16S
ATOM  31045  C4* A   A1473     157.259  46.210 -34.151  1.00143.46      A16S
ATOM  31046  O4* A   A1473     155.828  46.217 -33.920  1.00143.46      A16S
ATOM  31047  C1* A   A1473     155.271  47.414 -34.439  1.00143.46      A16S
ATOM  31048  N9  A   A1473     154.622  48.152 -33.356  1.00107.39      A16S
ATOM  31049  C4  A   A1473     153.723  49.177 -33.533  1.00107.39      A16S
ATOM  31050  N3  A   A1473     153.273  49.672 -34.699  1.00107.39      A16S
ATOM  31051  C2  A   A1473     152.422  50.667 -34.486  1.00107.39      A16S
ATOM  31052  N1  A   A1473     151.998  51.186 -33.330  1.00107.39      A16S
ATOM  31053  C6  A   A1473     152.467  50.667 -32.178  1.00107.39      A16S
ATOM  31054  N6  A   A1473     152.039  51.187 -31.029  1.00107.39      A16S
ATOM  31055  C5  A   A1473     153.382  49.604 -32.265  1.00107.39      A16S
ATOM  31056  N7  A   A1473     154.049  48.860 -31.301  1.00107.39      A16S
ATOM  31057  C8  A   A1473     154.768  48.013 -31.996  1.00107.39      A16S
ATOM  31058  C2* A   A1473     156.408  48.234 -35.043  1.00143.46      A16S
ATOM  31059  O2* A   A1473     156.468  48.004 -36.436  1.00143.46      A16S
ATOM  31060  C3* A   A1473     157.613  47.679 -34.298  1.00143.46      A16S
ATOM  31061  O3* A   A1473     158.809  47.884 -35.023  1.00143.46      A16S
ATOM  31062  P   G   A1474     159.690  49.192 -34.728  1.00136.83      A16S
ATOM  31063  O1P G   A1474     160.910  49.079 -35.568  1.00121.86      A16S
ATOM  31064  O2P G   A1474     159.819  49.357 -33.255  1.00121.86      A16S
ATOM  31065  O5* G   A1474     158.798  50.392 -35.277  1.00136.83      A16S
ATOM  31066  C5* G   A1474     158.725  50.665 -36.684  1.00136.83      A16S
ATOM  31067  C4* G   A1474     157.851  51.866 -36.943  1.00136.83      A16S
ATOM  31068  O4* G   A1474     156.504  51.580 -36.482  1.00136.83      A16S
ATOM  31069  C1* G   A1474     155.900  52.773 -36.006  1.00136.83      A16S
ATOM  31070  N9  G   A1474     155.610  52.625 -34.581  1.00121.86      A16S
ATOM  31071  C4  G   A1474     154.692  53.354 -33.865  1.00121.86      A16S
ATOM  31072  N3  G   A1474     153.871  54.301 -34.366  1.00121.86      A16S
ATOM  31073  C2  G   A1474     153.121  54.850 -33.429  1.00121.86      A16S
ATOM  31074  N2  G   A1474     152.250  55.812 -33.756  1.00121.86      A16S
ATOM  31075  N1  G   A1474     153.173  54.496 -32.102  1.00121.86      A16S
ATOM  31076  C6  G   A1474     154.013  53.525 -31.564  1.00121.86      A16S
ATOM  31077  O6  G   A1474     153.989  53.292 -30.350  1.00121.86      A16S
ATOM  31078  C5  G   A1474     154.820  52.926 -32.561  1.00121.86      A16S
ATOM  31079  N7  G   A1474     155.780  51.930 -32.461  1.00121.86      A16S
ATOM  31080  C8  G   A1474     156.216  51.777 -33.682  1.00121.86      A16S
ATOM  31081  C2* G   A1474     156.901  53.909 -36.215  1.00136.83      A16S
ATOM  31082  O2* G   A1474     156.651  54.572 -37.441  1.00136.83      A16S
ATOM  31083  C3* G   A1474     158.220  53.153 -36.220  1.00136.83      A16S
ATOM  31084  O3* G   A1474     159.241  53.905 -36.856  1.00136.83      A16S
ATOM  31085  P   G   A1475     160.028  55.032 -36.019  1.00174.42      A16S
ATOM  31086  O1P G   A1475     161.015  55.636 -36.946  1.00148.12      A16S
ATOM  31087  O2P G   A1475     160.491  54.445 -34.736  1.00148.12      A16S
ATOM  31088  O5* G   A1475     158.913  56.123 -35.689  1.00174.42      A16S
ATOM  31089  C5* G   A1475     158.310  56.901 -36.742  1.00174.42      A16S
ATOM  31090  C4* G   A1475     157.340  57.914 -36.174  1.00174.42      A16S
ATOM  31091  O4* G   A1475     156.207  57.239 -35.568  1.00174.42      A16S
ATOM  31092  C1* G   A1475     155.726  58.004 -34.470  1.00174.42      A16S
ATOM  31093  N9  G   A1475     155.782  57.192 -33.254  1.00148.12      A16S
ATOM  31094  C4  G   A1475     155.090  57.430 -32.087  1.00148.12      A16S
ATOM  31095  N3  G   A1475     154.227  58.445 -31.873  1.00148.12      A16S
ATOM  31096  C2  G   A1475     153.725  58.417 -30.653  1.00148.12      A16S
ATOM  31097  N2  G   A1475     152.845  59.353 -30.282  1.00148.12      A16S
ATOM  31098  N1  G   A1475     154.046  57.468 -29.710  1.00148.12      A16S
ATOM  31099  C6  G   A1475     154.934  56.413 -29.904  1.00148.12      A16S
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ATOM 31100 O6 G A1475 155.156 55.612 -28.983 1.00148.12 A16S
ATOM 31101 C5 G A1475 155.479 56.431 -31.218 1.00148.12 A16S
ATOM 31102 N7 G A1475 156.388 55.575 -31.827 1.00148.12 A16S
ATOM 31103 C8 G A1475 156.536 56.062 -33.031 1.00148.12 A16S
ATOM 31104 C2* G A1475 156.591 59.260 -34.362 1.00174.42 A16S
ATOM 31105 O2* G A1475 155.942 60.349 -34.993 1.00174.42 A16S
ATOM 31106 C3* G A1475 157.867 58.820 -35.073 1.00174.42 A16S
ATOM 31107 O3* G A1475 158.607 59.921 -35.574 1.00174.42 A16S
ATOM 31108 P G A1476 159.679 60.649 -34.624 1.00133.41 A16S
ATOM 31109 O1P G A1476 160.498 61.521 -35.504 1.00157.15 A16S
ATOM 31110 O2P G A1476 160.351 59.623 -33.778 1.00157.15 A16S
ATOM 31111 O5* G A1476 158.788 61.568 -33.672 1.00133.41 A16S
ATOM 31112 C5* G A1476 158.116 62.734 -34.190 1.00133.41 A16S
ATOM 31113 C4* G A1476 157.335 63.425 -33.098 1.00133.41 A16S
ATOM 31114 O4* G A1476 156.239 62.575 -32.672 1.00133.41 A16S
ATOM 31115 C1* G A1476 156.023 62.735 -31.280 1.00133.41 A16S
ATOM 31116 N9 G A1476 156.246 61.449 -30.625 1.00157.15 A16S
ATOM 31117 C4 G A1476 155.987 61.146 -29.308 1.00157.15 A16S
ATOM 31118 N3 G A1476 155.463 61.984 -28.389 1.00157.15 A16S
ATOM 31119 C2 G A1476 155.338 61.404 -27.207 1.00157.15 A16S
ATOM 31120 N2 G A1476 154.823 62.090 -26.179 1.00157.15 A16S
ATOM 31121 N1 G A1476 155.705 60.106 -26.947 1.00157.15 A16S
ATOM 31122 C6 G A1476 156.246 59.226 -27.877 1.00157.15 A16S
ATOM 31123 O6 G A1476 156.540 58.071 -27.539 1.00157.15 A16S
ATOM 31124 C5 G A1476 156.382 59.834 -29.150 1.00157.15 A16S
ATOM 31125 N7 G A1476 156.870 59.320 -30.343 1.00157.15 A16S
ATOM 31126 C8 G A1476 156.768 60.309 -31.188 1.00157.15 A16S
ATOM 31127 C2* G A1476 156.999 63.798 -30.776 1.00133.41 A16S
ATOM 31128 O2* G A1476 156.361 65.058 -30.745 1.00133.41 A16S
ATOM 31129 C3* G A1476 158.104 63.723 -31.821 1.00133.41 A16S
ATOM 31130 O3* G A1476 158.852 64.928 -31.898 1.00133.41 A16S
ATOM 31131 P C A1477 160.109 65.145 -30.913 1.00124.88 A16S
ATOM 31132 O1P C A1477 160.789 66.395 -31.346 1.00126.55 A16S
ATOM 31133 O2P C A1477 160.883 63.874 -30.840 1.00126.55 A16S
ATOM 31134 O5* C A1477 159.443 65.408 -29.486 1.00124.88 A16S
ATOM 31135 C5* C A1477 158.621 66.572 -29.261 1.00124.88 A16S
ATOM 31136 C4* C A1477 157.978 66.519 -27.892 1.00124.88 A16S
ATOM 31137 O4* C A1477 157.168 65.319 -27.787 1.00124.88 A16S
ATOM 31138 C1* C A1477 157.210 64.828 -26.457 1.00124.88 A16S
ATOM 31139 N1 C A1477 157.837 63.494 -26.463 1.00126.55 A16S
ATOM 31140 C6 C A1477 158.575 63.067 -27.532 1.00126.55 A16S
ATOM 31141 C2 C A1477 157.682 62.670 -25.338 1.00126.55 A16S
ATOM 31142 O2 C A1477 156.988 63.069 -24.387 1.00126.55 A16S
ATOM 31143 N3 C A1477 158.290 61.462 -25.317 1.00126.55 A16S
ATOM 31144 C4 C A1477 159.022 61.064 -26.360 1.00126.55 A16S
ATOM 31145 N4 C A1477 159.619 59.871 -26.289 1.00126.55 A16S
ATOM 31146 C5 C A1477 159.180 61.873 -27.522 1.00126.55 A16S
ATOM 31147 C2* C A1477 158.038 65.809 -25.628 1.00124.88 A16S
ATOM 31148 O2* C A1477 157.183 66.736 -24.987 1.00124.88 A16S
ATOM 31149 C3* C A1477 158.916 66.441 -26.697 1.00124.88 A16S
ATOM 31150 O3* C A1477 159.407 67.709 -26.291 1.00124.88 A16S
ATOM 31151 P C A1478 160.717 67.786 -25.361 1.00126.43 A16S
ATOM 31152 O1P C A1478 161.084 69.217 -25.226 1.00140.34 A16S
ATOM 31153 O2P C A1478 161.717 66.819 -25.881 1.00140.34 A16S
ATOM 31154 O5* C A1478 160.217 67.264 -23.940 1.00126.43 A16S
ATOM 31155 C5* C A1478 159.220 67.992 -23.195 1.00126.43 A16S
ATOM 31156 C4* C A1478 158.895 67.272 -21.908 1.00126.43 A16S
ATOM 31157 O4* C A1478 158.359 65.960 -22.212 1.00126.43 A16S
ATOM 31158 C1* C A1478 158.790 65.029 -21.233 1.00126.43 A16S
ATOM 31159 N1 C A1478 159.568 63.971 -21.898 1.00140.34 A16S
ATOM 31160 C6 C A1478 160.255 64.221 -23.055 1.00140.34 A16S
ATOM 31161 C2 C A1478 159.599 62.696 -21.322 1.00140.34 A16S
ATOM 31162 O2 C A1478 158.966 62.495 -20.272 1.00140.34 A16S
ATOM 31163 N3 C A1478 160.317 61.718 -21.921 1.00140.34 A16S
ATOM 31164 C4 C A1478 160.984 61.974 -23.050 1.00140.34 A16S
ATOM 31165 N4 C A1478 161.679 60.980 -23.608 1.00140.34 A16S
ATOM 31166 C5 C A1478 160.968 63.262 -23.657 1.00140.34 A16S
ATOM 31167 C2* C A1478 159.616 65.786 -20.195 1.00126.43 A16S
ATOM 31168 O2* C A1478 158.803 66.132 -19.094 1.00126.43 A16S
ATOM 31169 C3* C A1478 160.076 66.996 -20.994 1.00126.43 A16S
ATOM 31170 O3* C A1478 160.365 68.099 -20.156 1.00126.43 A16S
ATOM 31171 P C A1479 161.827 68.233 -19.511 1.00162.84 A16S
ATOM 31172 O1P C A1479 161.897 69.568 -18.872 1.00117.93 A16S
ATOM 31173 O2P C A1479 162.835 67.853 -20.537 1.00117.93 A16S
ATOM 31174 O5* C A1479 161.843 67.127 -18.365 1.00162.84 A16S
ATOM 31175 C5* C A1479 161.145 67.343 -17.126 1.00162.84 A16S
ATOM 31176 C4* C A1479 161.453 66.235 -16.146 1.00162.84 A16S

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ATOM  31177  O4*  C   A1479     160.923  64.980 -16.647  1.00162.84      A16S
ATOM  31178  C1*  C   A1479     161.770  63.913 -16.253  1.00162.84      A16S
ATOM  31179  N1   C   A1479     162.289  63.244 -17.461  1.00117.93      A16S
ATOM  31180  C6   C   A1479     162.442  63.929 -18.635  1.00117.93      A16S
ATOM  31181  C2   C   A1479     162.641  61.891 -17.385  1.00117.93      A16S
ATOM  31182  O2   C   A1479     162.470  61.282 -16.320  1.00117.93      A16S
ATOM  31183  N3   C   A1479     163.156  61.280 -18.474  1.00117.93      A16S
ATOM  31184  C4   C   A1479     163.312  61.962 -19.610  1.00117.93      A16S
ATOM  31185  N4   C   A1479     163.834  61.319 -20.658  1.00117.93      A16S
ATOM  31186  C5   C   A1479     162.944  63.333 -19.722  1.00117.93      A16S
ATOM  31187  C2*  C   A1479     162.894  64.503 -15.403  1.00162.84      A16S
ATOM  31188  O2*  C   A1479     162.547  64.404 -14.036  1.00162.84      A16S
ATOM  31189  C3*  C   A1479     162.924  65.945 -15.891  1.00162.84      A16S
ATOM  31190  O3*  C   A1479     163.499  66.819 -14.932  1.00162.84      A16S
ATOM  31191  P    G   A1480     165.095  67.021 -14.903  1.00112.66      A16S
ATOM  31192  O1P  G   A1480     165.382  68.034 -13.860  1.00125.05      A16S
ATOM  31193  O2P  G   A1480     165.571  67.247 -16.295  1.00125.05      A16S
ATOM  31194  O5*  G   A1480     165.654  65.613 -14.408  1.00112.66      A16S
ATOM  31195  C5*  G   A1480     165.312  65.099 -13.105  1.00112.66      A16S
ATOM  31196  C4*  G   A1480     165.924  63.731 -12.895  1.00112.66      A16S
ATOM  31197  O4*  G   A1480     165.344  62.774 -13.817  1.00112.66      A16S
ATOM  31198  C1*  G   A1480     166.326  61.835 -14.218  1.00112.66      A16S
ATOM  31199  N9   G   A1480     166.486  61.938 -15.665  1.00125.05      A16S
ATOM  31200  C4   G   A1480     167.137  61.048 -16.484  1.00125.05      A16S
ATOM  31201  N3   G   A1480     167.739  59.904 -16.094  1.00125.05      A16S
ATOM  31202  C2   G   A1480     168.285  59.260 -17.115  1.00125.05      A16S
ATOM  31203  N2   G   A1480     168.918  58.094 -16.910  1.00125.05      A16S
ATOM  31204  N1   G   A1480     168.251  59.711 -18.414  1.00125.05      A16S
ATOM  31205  C6   G   A1480     167.643  60.892 -18.837  1.00125.05      A16S
ATOM  31206  O6   G   A1480     167.684  61.217 -20.035  1.00125.05      A16S
ATOM  31207  C5   G   A1480     167.042  61.583 -17.753  1.00125.05      A16S
ATOM  31208  N7   G   A1480     166.339  62.779 -17.732  1.00125.05      A16S
ATOM  31209  C8   G   A1480     166.028  62.948 -16.478  1.00125.05      A16S
ATOM  31210  C2*  G   A1480     167.614  62.157 -13.459  1.00112.66      A16S
ATOM  31211  O2*  G   A1480     167.687  61.334 -12.312  1.00112.66      A16S
ATOM  31212  C3*  G   A1480     167.420  63.634 -13.128  1.00112.66      A16S
ATOM  31213  O3*  G   A1480     168.133  64.046 -11.968  1.00112.66      A16S
ATOM  31214  P    U   A1481     169.544  64.799 -12.125  1.00109.04      A16S
ATOM  31215  O1P  U   A1481     169.897  65.356 -10.792  1.00153.90      A16S
ATOM  31216  O2P  U   A1481     169.482  65.705 -13.305  1.00153.90      A16S
ATOM  31217  O5*  U   A1481     170.557  63.616 -12.463  1.00109.04      A16S
ATOM  31218  C5*  U   A1481     170.809  62.564 -11.513  1.00109.04      A16S
ATOM  31219  C4*  U   A1481     171.495  61.410 -12.193  1.00109.04      A16S
ATOM  31220  O4*  U   A1481     170.600  60.853 -13.188  1.00109.04      A16S
ATOM  31221  C1*  U   A1481     171.342  60.447 -14.325  1.00109.04      A16S
ATOM  31222  N1   U   A1481     170.875  61.209 -15.493  1.00153.90      A16S
ATOM  31223  C6   U   A1481     170.205  62.406 -15.351  1.00153.90      A16S
ATOM  31224  C2   U   A1481     171.142  60.689 -16.752  1.00153.90      A16S
ATOM  31225  O2   U   A1481     171.726  59.630 -16.928  1.00153.90      A16S
ATOM  31226  N3   U   A1481     170.701  61.457 -17.801  1.00153.90      A16S
ATOM  31227  C4   U   A1481     170.033  62.663 -17.727  1.00153.90      A16S
ATOM  31228  O4   U   A1481     169.671  63.220 -18.768  1.00153.90      A16S
ATOM  31229  C5   U   A1481     169.788  63.129 -16.394  1.00153.90      A16S
ATOM  31230  C2*  U   A1481     172.821  60.701 -14.033  1.00109.04      A16S
ATOM  31231  O2*  U   A1481     173.438  59.512 -13.580  1.00109.04      A16S
ATOM  31232  C3*  U   A1481     172.742  61.788 -12.971  1.00109.04      A16S
ATOM  31233  O3*  U   A1481     173.900  61.840 -12.150  1.00109.04      A16S
ATOM  31234  P    G   A1482     175.105  62.836 -12.538  1.00102.33      A16S
ATOM  31235  O1P  G   A1482     176.228  62.573 -11.601  1.00132.26      A16S
ATOM  31236  O2P  G   A1482     174.556  64.216 -12.652  1.00132.26      A16S
ATOM  31237  O5*  G   A1482     175.549  62.346 -13.990  1.00102.33      A16S
ATOM  31238  C5*  G   A1482     176.012  60.999 -14.202  1.00102.33      A16S
ATOM  31239  C4*  G   A1482     176.235  60.737 -15.672  1.00102.33      A16S
ATOM  31240  O4*  G   A1482     174.973  60.761 -16.385  1.00102.33      A16S
ATOM  31241  C1*  G   A1482     175.176  61.277 -17.692  1.00102.33      A16S
ATOM  31242  N9   G   A1482     174.330  62.456 -17.865  1.00132.26      A16S
ATOM  31243  C4   G   A1482     173.760  62.890 -19.042  1.00132.26      A16S
ATOM  31244  N3   G   A1482     173.917  62.325 -20.260  1.00132.26      A16S
ATOM  31245  C2   G   A1482     173.222  62.957 -21.191  1.00132.26      A16S
ATOM  31246  N2   G   A1482     173.273  62.541 -22.463  1.00132.26      A16S
ATOM  31247  N1   G   A1482     172.427  64.046 -20.947  1.00132.26      A16S
ATOM  31248  C6   G   A1482     172.248  64.644 -19.705  1.00132.26      A16S
ATOM  31249  O6   G   A1482     171.497  65.623 -19.595  1.00132.26      A16S
ATOM  31250  C5   G   A1482     173.002  63.988 -18.697  1.00132.26      A16S
ATOM  31251  N7   G   A1482     173.121  64.263 -17.341  1.00132.26      A16S
ATOM  31252  C8   G   A1482     173.920  63.335 -16.891  1.00132.26      A16S
ATOM  31253  C2*  G   A1482     176.666  61.567 -17.851  1.00102.33      A16S
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ATOM  31254  O2* G   A1482     177.291  60.444 -18.440  1.00102.33      A16S
ATOM  31255  C3* G   A1482     177.097  61.748 -16.404  1.00102.33      A16S
ATOM  31256  O3* G   A1482     178.472  61.471 -16.245  1.00102.33      A16S
ATOM  31257  P    A   A1483     179.516  62.686 -16.154  1.00104.86      A16S
ATOM  31258  O1P A   A1483     179.852  62.853 -14.711  1.00 99.98      A16S
ATOM  31259  O2P A   A1483     178.982  63.846 -16.922  1.00 99.98      A16S
ATOM  31260  O5* A   A1483     180.793  62.125 -16.924  1.00104.86      A16S
ATOM  31261  C5* A   A1483     181.388  60.871 -16.547  1.00104.86      A16S
ATOM  31262  C4* A   A1483     181.905  60.145 -17.765  1.00104.86      A16S
ATOM  31263  O4* A   A1483     180.806  59.670 -18.582  1.00104.86      A16S
ATOM  31264  C1* A   A1483     181.213  59.635 -19.942  1.00104.86      A16S
ATOM  31265  N9   A   A1483     180.265  60.397 -20.755  1.00 99.98      A16S
ATOM  31266  C4   A   A1483     180.227  60.394 -22.129  1.00 99.98      A16S
ATOM  31267  N3   A   A1483     181.028  59.711 -22.962  1.00 99.98      A16S
ATOM  31268  C2   A   A1483     180.698  59.949 -24.226  1.00 99.98      A16S
ATOM  31269  N1   A   A1483     179.733  60.733 -24.716  1.00 99.98      A16S
ATOM  31270  C6   A   A1483     178.950  61.407 -23.852  1.00 99.98      A16S
ATOM  31271  N6   A   A1483     177.994  62.190 -24.345  1.00 99.98      A16S
ATOM  31272  C5   A   A1483     179.196  61.240 -22.481  1.00 99.98      A16S
ATOM  31273  N7   A   A1483     178.591  61.770 -21.351  1.00 99.98      A16S
ATOM  31274  C8   A   A1483     179.260  61.240 -20.356  1.00 99.98      A16S
ATOM  31275  C2* A   A1483     182.634  60.193 -20.030  1.00104.86      A16S
ATOM  31276  O2* A   A1483     183.565  59.133 -20.139  1.00104.86      A16S
ATOM  31277  C3* A   A1483     182.747  60.966 -18.723  1.00104.86      A16S
ATOM  31278  O3* A   A1483     184.088  61.071 -18.298  1.00104.86      A16S
ATOM  31279  P    C   A1484     184.844  62.476 -18.432  1.00101.95      A16S
ATOM  31280  O1P C   A1484     186.298  62.188 -18.397  1.00105.73      A16S
ATOM  31281  O2P C   A1484     184.252  63.413 -17.436  1.00105.73      A16S
ATOM  31282  O5* C   A1484     184.484  62.980 -19.901  1.00101.95      A16S
ATOM  31283  C5* C   A1484     185.048  62.339 -21.062  1.00101.95      A16S
ATOM  31284  C4* C   A1484     184.505  62.969 -22.319  1.00101.95      A16S
ATOM  31285  O4* C   A1484     183.078  62.717 -22.404  1.00101.95      A16S
ATOM  31286  C1* C   A1484     182.420  63.856 -22.943  1.00101.95      A16S
ATOM  31287  N1   C   A1484     181.545  64.432 -21.901  1.00105.73      A16S
ATOM  31288  C6   C   A1484     181.731  64.129 -20.579  1.00105.73      A16S
ATOM  31289  C2   C   A1484     180.531  65.319 -22.284  1.00105.73      A16S
ATOM  31290  O2   C   A1484     180.357  65.552 -23.491  1.00105.73      A16S
ATOM  31291  N3   C   A1484     179.768  65.897 -21.328  1.00105.73      A16S
ATOM  31292  C4   C   A1484     179.976  65.609 -20.040  1.00105.73      A16S
ATOM  31293  N4   C   A1484     179.214  66.218 -19.129  1.00105.73      A16S
ATOM  31294  C5   C   A1484     180.978  64.689 -19.627  1.00105.73      A16S
ATOM  31295  C2* C   A1484     183.500  64.864 -23.332  1.00101.95      A16S
ATOM  31296  O2* C   A1484     183.864  64.708 -24.689  1.00101.95      A16S
ATOM  31297  C3* C   A1484     184.620  64.482 -22.382  1.00101.95      A16S
ATOM  31298  O3* C   A1484     185.873  64.932 -22.845  1.00101.95      A16S
ATOM  31299  P    U   A1485     186.394  66.380 -22.394  1.00121.51      A16S
ATOM  31300  O1P U   A1485     187.707  66.590 -23.060  1.00110.18      A16S
ATOM  31301  O2P U   A1485     186.297  66.466 -20.911  1.00110.18      A16S
ATOM  31302  O5* U   A1485     185.328  67.390 -23.023  1.00121.51      A16S
ATOM  31303  C5* U   A1485     185.185  67.522 -24.455  1.00121.51      A16S
ATOM  31304  C4* U   A1485     184.069  68.491 -24.809  1.00121.51      A16S
ATOM  31305  O4* U   A1485     182.817  68.030 -24.239  1.00121.51      A16S
ATOM  31306  C1* U   A1485     181.967  69.140 -24.008  1.00121.51      A16S
ATOM  31307  N1   U   A1485     181.555  69.165 -22.598  1.00110.18      A16S
ATOM  31308  C6   U   A1485     182.380  68.734 -21.588  1.00110.18      A16S
ATOM  31309  C2   U   A1485     180.295  69.661 -22.320  1.00110.18      A16S
ATOM  31310  O2   U   A1485     179.527  70.046 -23.187  1.00110.18      A16S
ATOM  31311  N3   U   A1485     179.964  69.691 -20.992  1.00110.18      A16S
ATOM  31312  C4   U   A1485     180.739  69.284 -19.936  1.00110.18      A16S
ATOM  31313  O4   U   A1485     180.289  69.365 -18.793  1.00110.18      A16S
ATOM  31314  C5   U   A1485     182.026  68.777 -20.301  1.00110.18      A16S
ATOM  31315  C2* U   A1485     182.726  70.408 -24.392  1.00121.51      A16S
ATOM  31316  O2* U   A1485     182.328  70.825 -25.682  1.00121.51      A16S
ATOM  31317  C3* U   A1485     184.173  69.936 -24.335  1.00121.51      A16S
ATOM  31318  O3* U   A1485     184.986  70.749 -25.174  1.00121.51      A16S
ATOM  31319  P    G   A1486     185.520  72.170 -24.631  1.00 77.32      A16S
ATOM  31320  O1P G   A1486     186.476  72.674 -25.658  1.00 85.66      A16S
ATOM  31321  O2P G   A1486     185.971  72.019 -23.216  1.00 85.66      A16S
ATOM  31322  O5* G   A1486     184.229  73.108 -24.639  1.00 77.32      A16S
ATOM  31323  C5* G   A1486     183.697  73.591 -25.881  1.00 77.32      A16S
ATOM  31324  C4* G   A1486     182.643  74.651 -25.650  1.00 77.32      A16S
ATOM  31325  O4* G   A1486     181.465  74.070 -25.037  1.00 77.32      A16S
ATOM  31326  C1* G   A1486     180.793  75.056 -24.275  1.00 77.32      A16S
ATOM  31327  N9   G   A1486     180.641  74.580 -22.901  1.00 85.66      A16S
ATOM  31328  C4   G   A1486     179.740  75.048 -21.975  1.00 85.66      A16S
ATOM  31329  N3   G   A1486     178.826  76.017 -22.179  1.00 85.66      A16S
ATOM  31330  C2   G   A1486     178.107  76.253 -21.096  1.00 85.66      A16S
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ATOM	31331	N2	G	A1486	177.140	77.183	-21.126	1.00 85.66	A16S
ATOM	31332	N1	G	A1486	178.277	75.593	-19.903	1.00 85.66	A16S
ATOM	31333	C6	G	A1486	179.209	74.589	-19.671	1.00 85.66	A16S
ATOM	31334	O6	G	A1486	179.275	74.054	-18.556	1.00 85.66	A16S
ATOM	31335	C5	G	A1486	179.984	74.323	-20.828	1.00 85.66	A16S
ATOM	31336	N7	G	A1486	181.008	73.409	-21.031	1.00 85.66	A16S
ATOM	31337	C8	G	A1486	181.366	73.597	-22.272	1.00 85.66	A16S
ATOM	31338	C2*	G	A1486	181.601	76.349	-24.381	1.00 77.32	A16S
ATOM	31339	O2*	G	A1486	181.032	77.145	-25.403	1.00 77.32	A16S
ATOM	31340	C3*	G	A1486	182.985	75.829	-24.760	1.00 77.32	A16S
ATOM	31341	O3*	G	A1486	183.745	76.814	-25.452	1.00 77.32	A16S
ATOM	31342	P	G	A1487	184.909	77.618	-24.675	1.00 82.86	A16S
ATOM	31343	O1P	G	A1487	185.744	78.237	-25.740	1.00 62.48	A16S
ATOM	31344	O2P	G	A1487	185.541	76.724	-23.667	1.00 62.48	A16S
ATOM	31345	O5*	G	A1487	184.154	78.773	-23.869	1.00 82.86	A16S
ATOM	31346	C5*	G	A1487	183.566	79.891	-24.561	1.00 82.86	A16S
ATOM	31347	C4*	G	A1487	182.264	80.312	-23.908	1.00 82.86	A16S
ATOM	31348	O4*	G	A1487	181.508	79.132	-23.511	1.00 82.86	A16S
ATOM	31349	C1*	G	A1487	180.712	79.431	-22.376	1.00 82.86	A16S
ATOM	31350	N9	G	A1487	181.116	78.580	-21.257	1.00 62.48	A16S
ATOM	31351	C4	G	A1487	180.431	78.406	-20.069	1.00 62.48	A16S
ATOM	31352	N3	G	A1487	179.244	78.956	-19.749	1.00 62.48	A16S
ATOM	31353	C2	G	A1487	178.867	78.632	-18.530	1.00 62.48	A16S
ATOM	31354	N2	G	A1487	177.709	79.089	-18.060	1.00 62.48	A16S
ATOM	31355	N1	G	A1487	179.595	77.838	-17.686	1.00 62.48	A16S
ATOM	31356	C6	G	A1487	180.819	77.262	-17.993	1.00 62.48	A16S
ATOM	31357	O6	G	A1487	181.402	76.565	-17.157	1.00 62.48	A16S
ATOM	31358	C5	G	A1487	181.233	77.593	-19.301	1.00 62.48	A16S
ATOM	31359	N7	G	A1487	182.378	77.235	-19.994	1.00 62.48	A16S
ATOM	31360	C8	G	A1487	182.262	77.835	-21.149	1.00 62.48	A16S
ATOM	31361	C2*	G	A1487	180.956	80.898	-22.034	1.00 82.86	A16S
ATOM	31362	O2*	G	A1487	179.977	81.694	-22.671	1.00 82.86	A16S
ATOM	31363	C3*	G	A1487	182.334	81.131	-22.631	1.00 82.86	A16S
ATOM	31364	O3*	G	A1487	182.535	82.520	-22.860	1.00 82.86	A16S
ATOM	31365	P	G	A1488	182.946	83.473	-21.625	1.00 49.61	A16S
ATOM	31366	O1P	G	A1488	183.140	84.853	-22.157	1.00 55.71	A16S
ATOM	31367	O2P	G	A1488	184.041	82.818	-20.863	1.00 55.71	A16S
ATOM	31368	O5*	G	A1488	181.671	83.454	-20.668	1.00 49.61	A16S
ATOM	31369	C5*	G	A1488	180.439	84.074	-21.068	1.00 49.61	A16S
ATOM	31370	C4*	G	A1488	179.460	84.088	-19.923	1.00 49.61	A16S
ATOM	31371	O4*	G	A1488	179.131	82.733	-19.544	1.00 49.61	A16S
ATOM	31372	C1*	G	A1488	178.866	82.679	-18.156	1.00 49.61	A16S
ATOM	31373	N9	G	A1488	179.787	81.733	-17.542	1.00 55.71	A16S
ATOM	31374	C4	G	A1488	179.715	81.241	-16.259	1.00 55.71	A16S
ATOM	31375	N3	G	A1488	178.757	81.527	-15.348	1.00 55.71	A16S
ATOM	31376	C2	G	A1488	178.970	80.912	-14.198	1.00 55.71	A16S
ATOM	31377	N2	G	A1488	178.102	81.060	-13.194	1.00 55.71	A16S
ATOM	31378	N1	G	A1488	180.048	80.103	-13.955	1.00 55.71	A16S
ATOM	31379	C6	G	A1488	181.052	79.808	-14.873	1.00 55.71	A16S
ATOM	31380	O6	G	A1488	181.999	79.093	-14.540	1.00 55.71	A16S
ATOM	31381	C5	G	A1488	180.818	80.434	-16.117	1.00 55.71	A16S
ATOM	31382	N7	G	A1488	181.551	80.392	-17.292	1.00 55.71	A16S
ATOM	31383	C8	G	A1488	180.903	81.177	-18.107	1.00 55.71	A16S
ATOM	31384	C2*	G	A1488	179.031	84.089	-17.595	1.00 49.61	A16S
ATOM	31385	O2*	G	A1488	177.752	84.692	-17.516	1.00 49.61	A16S
ATOM	31386	C3*	G	A1488	179.940	84.726	-18.635	1.00 49.61	A16S
ATOM	31387	O3*	G	A1488	179.809	86.135	-18.690	1.00 49.61	A16S
ATOM	31388	P	G	A1489	180.730	87.055	-17.751	1.00 49.27	A16S
ATOM	31389	O1P	G	A1489	180.541	88.446	-18.236	1.00 60.38	A16S
ATOM	31390	O2P	G	A1489	182.099	86.493	-17.668	1.00 60.38	A16S
ATOM	31391	O5*	G	A1489	180.055	86.892	-16.318	1.00 49.27	A16S
ATOM	31392	C5*	G	A1489	178.713	87.371	-16.080	1.00 49.27	A16S
ATOM	31393	C4*	G	A1489	178.313	87.109	-14.652	1.00 49.27	A16S
ATOM	31394	O4*	G	A1489	178.171	85.683	-14.461	1.00 49.27	A16S
ATOM	31395	C1*	G	A1489	178.661	85.326	-13.185	1.00 49.27	A16S
ATOM	31396	N9	G	A1489	179.803	84.438	-13.369	1.00 60.38	A16S
ATOM	31397	C4	G	A1489	180.342	83.621	-12.411	1.00 60.38	A16S
ATOM	31398	N3	G	A1489	179.913	83.515	-11.137	1.00 60.38	A16S
ATOM	31399	C2	G	A1489	180.619	82.646	-10.450	1.00 60.38	A16S
ATOM	31400	N2	G	A1489	180.328	82.436	-9.168	1.00 60.38	A16S
ATOM	31401	N1	G	A1489	181.662	81.923	-10.972	1.00 60.38	A16S
ATOM	31402	C6	G	A1489	182.119	82.007	-12.286	1.00 60.38	A16S
ATOM	31403	O6	G	A1489	183.058	81.287	-12.666	1.00 60.38	A16S
ATOM	31404	C5	G	A1489	181.375	82.959	-13.032	1.00 60.38	A16S
ATOM	31405	N7	G	A1489	181.498	83.368	-14.353	1.00 60.38	A16S
ATOM	31406	C8	G	A1489	180.546	84.246	-14.508	1.00 60.38	A16S
ATOM	31407	C2*	G	A1489	179.063	86.604	-12.453	1.00 49.27	A16S

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ATOM  31408  O2* G   A1489     178.006  87.035 -11.623  1.00 49.27      A16S
ATOM  31409  C3* G   A1489     179.340  87.539 -13.617  1.00 49.27      A16S
ATOM  31410  O3* G   A1489     179.219  88.903 -13.262  1.00 49.27      A16S
ATOM  31411  P   C   A1490     180.505  89.687 -12.716  1.00 51.27      A16S
ATOM  31412  O1P C   A1490     180.070  91.078 -12.477  1.00 65.53      A16S
ATOM  31413  O2P C   A1490     181.660  89.423 -13.602  1.00 65.53      A16S
ATOM  31414  O5* C   A1490     180.780  88.994 -11.313  1.00 51.27      A16S
ATOM  31415  C5* C   A1490     179.785  89.064 -10.282  1.00 51.27      A16S
ATOM  31416  C4* C   A1490     180.200  88.258  -9.080  1.00 51.27      A16S
ATOM  31417  O4* C   A1490     180.189  86.848  -9.408  1.00 51.27      A16S
ATOM  31418  C1* C   A1490     181.223  86.187  -8.694  1.00 51.27      A16S
ATOM  31419  N1  C   A1490     182.169  85.610  -9.667  1.00 65.53      A16S
ATOM  31420  C6  C   A1490     182.221  86.065 -10.952  1.00 65.53      A16S
ATOM  31421  C2  C   A1490     183.024  84.594  -9.247  1.00 65.53      A16S
ATOM  31422  O2  C   A1490     182.939  84.183  -8.086  1.00 65.53      A16S
ATOM  31423  N3  C   A1490     183.914  84.082 -10.114  1.00 65.53      A16S
ATOM  31424  C4  C   A1490     183.961  84.539 -11.363  1.00 65.53      A16S
ATOM  31425  N4  C   A1490     184.860  84.007 -12.190  1.00 65.53      A16S
ATOM  31426  C5  C   A1490     183.091  85.561 -11.824  1.00 65.53      A16S
ATOM  31427  C2* C   A1490     181.902  87.222  -7.798  1.00 51.27      A16S
ATOM  31428  O2* C   A1490     181.337  87.177  -6.499  1.00 51.27      A16S
ATOM  31429  C3* C   A1490     181.598  88.510  -8.549  1.00 51.27      A16S
ATOM  31430  O3* C   A1490     181.678  89.653  -7.730  1.00 51.27      A16S
ATOM  31431  P   G   A1491     183.088  90.381  -7.559  1.00 68.17      A16S
ATOM  31432  O1P G   A1491     182.876  91.532  -6.658  1.00 54.85      A16S
ATOM  31433  O2P G   A1491     183.683  90.598  -8.895  1.00 54.85      A16S
ATOM  31434  O5* G   A1491     183.963  89.293  -6.801  1.00 68.17      A16S
ATOM  31435  C5* G   A1491     183.516  88.740  -5.551  1.00 68.17      A16S
ATOM  31436  C4* G   A1491     184.558  87.808  -4.987  1.00 68.17      A16S
ATOM  31437  O4* G   A1491     184.657  86.612  -5.800  1.00 68.17      A16S
ATOM  31438  C1* G   A1491     186.011  86.194  -5.868  1.00 68.17      A16S
ATOM  31439  N9  G   A1491     186.411  86.175  -7.273  1.00 54.85      A16S
ATOM  31440  C4  G   A1491     187.333  85.336  -7.847  1.00 54.85      A16S
ATOM  31441  N3  G   A1491     188.053  84.393  -7.208  1.00 54.85      A16S
ATOM  31442  C2  G   A1491     188.850  83.735  -8.035  1.00 54.85      A16S
ATOM  31443  N2  G   A1491     189.641  82.766  -7.567  1.00 54.85      A16S
ATOM  31444  N1  G   A1491     188.930  83.979  -9.377  1.00 54.85      A16S
ATOM  31445  C6  G   A1491     188.205  84.944 -10.053  1.00 54.85      A16S
ATOM  31446  O6  G   A1491     188.359  85.081 -11.262  1.00 54.85      A16S
ATOM  31447  C5  G   A1491     187.347  85.665  -9.181  1.00 54.85      A16S
ATOM  31448  N7  G   A1491     186.464  86.704  -9.441  1.00 54.85      A16S
ATOM  31449  C8  G   A1491     185.935  86.976  -8.283  1.00 54.85      A16S
ATOM  31450  C2* G   A1491     186.845  87.142  -4.997  1.00 68.17      A16S
ATOM  31451  O2* G   A1491     187.044  86.584  -3.712  1.00 68.17      A16S
ATOM  31452  C3* G   A1491     185.963  88.382  -4.956  1.00 68.17      A16S
ATOM  31453  O3* G   A1491     186.160  89.148  -3.784  1.00 68.17      A16S
ATOM  31454  P   A   A1492     186.951  90.529  -3.878  1.00 76.53      A16S
ATOM  31455  O1P A   A1492     186.411  91.439  -2.843  1.00 62.49      A16S
ATOM  31456  O2P A   A1492     186.939  90.951  -5.294  1.00 62.49      A16S
ATOM  31457  O5* A   A1492     188.437  90.127  -3.480  1.00 76.53      A16S
ATOM  31458  C5* A   A1492     188.953  90.422  -2.171  1.00 76.53      A16S
ATOM  31459  C4* A   A1492     190.155  91.325  -2.283  1.00 76.53      A16S
ATOM  31460  O4* A   A1492     190.293  92.102  -1.076  1.00 76.53      A16S
ATOM  31461  C1* A   A1492     191.655  92.390  -0.857  1.00 76.53      A16S
ATOM  31462  N9  A   A1492     191.974  92.004   0.513  1.00 62.49      A16S
ATOM  31463  C4  A   A1492     192.353  92.858   1.517  1.00 62.49      A16S
ATOM  31464  N3  A   A1492     192.507  94.190   1.436  1.00 62.49      A16S
ATOM  31465  C2  A   A1492     192.884  94.683   2.606  1.00 62.49      A16S
ATOM  31466  N1  A   A1492     193.104  94.043   3.760  1.00 62.49      A16S
ATOM  31467  C6  A   A1492     192.934  92.703   3.801  1.00 62.49      A16S
ATOM  31468  N6  A   A1492     193.145  92.056   4.951  1.00 62.49      A16S
ATOM  31469  C5  A   A1492     192.543  92.065   2.631  1.00 62.49      A16S
ATOM  31470  N7  A   A1492     192.289  90.734   2.340  1.00 62.49      A16S
ATOM  31471  C8  A   A1492     191.955  90.750   1.074  1.00 62.49      A16S
ATOM  31472  C2* A   A1492     192.481  91.717  -1.961  1.00 76.53      A16S
ATOM  31473  O2* A   A1492     192.833  92.694  -2.922  1.00 76.53      A16S
ATOM  31474  C3* A   A1492     191.508  90.666  -2.497  1.00 76.53      A16S
ATOM  31475  O3* A   A1492     191.706  90.397  -3.885  1.00 76.53      A16S
ATOM  31476  P   A   A1493     192.761  89.277  -4.347  1.00 56.60      A16S
ATOM  31477  O1P A   A1493     192.392  88.885  -5.727  1.00 42.55      A16S
ATOM  31478  O2P A   A1493     192.882  88.226  -3.295  1.00 42.55      A16S
ATOM  31479  O5* A   A1493     194.131  90.081  -4.422  1.00 56.60      A16S
ATOM  31480  C5* A   A1493     194.312  91.156  -5.367  1.00 56.60      A16S
ATOM  31481  C4* A   A1493     195.552  91.940  -5.018  1.00 56.60      A16S
ATOM  31482  O4* A   A1493     195.366  92.471  -3.689  1.00 56.60      A16S
ATOM  31483  C1* A   A1493     196.575  92.414  -2.975  1.00 56.60      A16S
ATOM  31484  N9  A   A1493     196.327  91.667  -1.746  1.00 42.55      A16S
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ATOM  31485  C4   A   A1493     196.190  92.227  -0.498  1.00 42.55      A16S
ATOM  31486  N3   A   A1493     196.281  93.532  -0.176  1.00 42.55      A16S
ATOM  31487  C2   A   A1493     196.062  93.710   1.126  1.00 42.55      A16S
ATOM  31488  N1   A   A1493     195.784  92.799   2.078  1.00 42.55      A16S
ATOM  31489  C6   A   A1493     195.709  91.494   1.726  1.00 42.55      A16S
ATOM  31490  N6   A   A1493     195.443  90.590   2.676  1.00 42.55      A16S
ATOM  31491  C5   A   A1493     195.919  91.172   0.363  1.00 42.55      A16S
ATOM  31492  N7   A   A1493     195.902  89.967  -0.329  1.00 42.55      A16S
ATOM  31493  C8   A   A1493     196.154  90.315  -1.572  1.00 42.55      A16S
ATOM  31494  C2*  A   A1493     197.655  91.867  -3.907  1.00 56.60      A16S
ATOM  31495  O2*  A   A1493     198.331  92.986  -4.445  1.00 56.60      A16S
ATOM  31496  C3*  A   A1493     196.833  91.118  -4.956  1.00 56.60      A16S
ATOM  31497  O3*  A   A1493     197.521  91.132  -6.221  1.00 56.60      A16S
ATOM  31498  P    G   A1494     196.964  90.273  -7.475  1.00 82.85      A16S
ATOM  31499  O1P  G   A1494     196.368  91.234  -8.441  1.00 81.76      A16S
ATOM  31500  O2P  G   A1494     196.158  89.117  -6.997  1.00 81.76      A16S
ATOM  31501  O5*  G   A1494     198.274  89.694  -8.172  1.00 82.85      A16S
ATOM  31502  C5*  G   A1494     199.223  88.905  -7.425  1.00 82.85      A16S
ATOM  31503  C4*  G   A1494     199.663  87.705  -8.232  1.00 82.85      A16S
ATOM  31504  O4*  G   A1494     198.536  86.808  -8.416  1.00 82.85      A16S
ATOM  31505  C1*  G   A1494     198.627  86.180  -9.684  1.00 82.85      A16S
ATOM  31506  N9   G   A1494     197.470  86.557 -10.495  1.00 81.76      A16S
ATOM  31507  C4   G   A1494     197.110  85.981 -11.689  1.00 81.76      A16S
ATOM  31508  N3   G   A1494     197.732  84.942 -12.284  1.00 81.76      A16S
ATOM  31509  C2   G   A1494     197.181  84.634 -13.441  1.00 81.76      A16S
ATOM  31510  N2   G   A1494     197.672  83.622 -14.163  1.00 81.76      A16S
ATOM  31511  N1   G   A1494     196.110  85.292 -13.978  1.00 81.76      A16S
ATOM  31512  C6   G   A1494     195.458  86.366 -13.390  1.00 81.76      A16S
ATOM  31513  O6   G   A1494     194.516  86.903 -13.976  1.00 81.76      A16S
ATOM  31514  C5   G   A1494     196.029  86.703 -12.134  1.00 81.76      A16S
ATOM  31515  N7   G   A1494     195.688  87.693 -11.223  1.00 81.76      A16S
ATOM  31516  C8   G   A1494     196.563  87.565 -10.264  1.00 81.76      A16S
ATOM  31517  C2*  G   A1494     199.915  86.664 -10.347  1.00 82.85      A16S
ATOM  31518  O2*  G   A1494     200.963  85.745 -10.126  1.00 82.85      A16S
ATOM  31519  C3*  G   A1494     200.143  87.990  -9.644  1.00 82.85      A16S
ATOM  31520  O3*  G   A1494     201.499  88.383  -9.719  1.00 82.85      A16S
ATOM  31521  P    U   A1495     201.974  89.323 -10.932  1.00 70.20      A16S
ATOM  31522  O1P  U   A1495     203.437  89.536 -10.801  1.00 86.44      A16S
ATOM  31523  O2P  U   A1495     201.063  90.496 -10.962  1.00 86.44      A16S
ATOM  31524  O5*  U   A1495     201.708  88.451 -12.241  1.00 70.20      A16S
ATOM  31525  C5*  U   A1495     202.474  87.260 -12.509  1.00 70.20      A16S
ATOM  31526  C4*  U   A1495     202.240  86.790 -13.924  1.00 70.20      A16S
ATOM  31527  O4*  U   A1495     200.886  86.285 -14.055  1.00 70.20      A16S
ATOM  31528  C1*  U   A1495     200.374  86.604 -15.344  1.00 70.20      A16S
ATOM  31529  N1   U   A1495     199.130  87.390 -15.192  1.00 86.44      A16S
ATOM  31530  C6   U   A1495     198.870  88.115 -14.048  1.00 86.44      A16S
ATOM  31531  C2   U   A1495     198.218  87.386 -16.245  1.00 86.44      A16S
ATOM  31532  O2   U   A1495     198.393  86.762 -17.285  1.00 86.44      A16S
ATOM  31533  N3   U   A1495     197.092  88.148 -16.038  1.00 86.44      A16S
ATOM  31534  C4   U   A1495     196.784  88.900 -14.924  1.00 86.44      A16S
ATOM  31535  O4   U   A1495     195.743  89.564 -14.906  1.00 86.44      A16S
ATOM  31536  C5   U   A1495     197.762  88.848 -13.886  1.00 86.44      A16S
ATOM  31537  C2*  U   A1495     201.484  87.324 -16.117  1.00 70.20      A16S
ATOM  31538  O2*  U   A1495     202.179  86.401 -16.925  1.00 70.20      A16S
ATOM  31539  C3*  U   A1495     202.354  87.864 -14.990  1.00 70.20      A16S
ATOM  31540  O3*  U   A1495     203.695  88.078 -15.399  1.00 70.20      A16S
ATOM  31541  P    C   A1496     204.155  89.549 -15.863  1.00 64.55      A16S
ATOM  31542  O1P  C   A1496     205.639  89.545 -15.890  1.00 86.50      A16S
ATOM  31543  O2P  C   A1496     203.444  90.553 -15.022  1.00 86.50      A16S
ATOM  31544  O5*  C   A1496     203.648  89.649 -17.370  1.00 64.55      A16S
ATOM  31545  C5*  C   A1496     204.254  88.828 -18.371  1.00 64.55      A16S
ATOM  31546  C4*  C   A1496     203.489  88.899 -19.665  1.00 64.55      A16S
ATOM  31547  O4*  C   A1496     202.178  88.321 -19.498  1.00 64.55      A16S
ATOM  31548  C1*  C   A1496     201.267  88.967 -20.369  1.00 64.55      A16S
ATOM  31549  N1   C   A1496     200.181  89.554 -19.562  1.00 86.50      A16S
ATOM  31550  C6   C   A1496     200.289  89.644 -18.202  1.00 86.50      A16S
ATOM  31551  C2   C   A1496     199.033  90.027 -20.210  1.00 86.50      A16S
ATOM  31552  O2   C   A1496     198.959  89.942 -21.443  1.00 86.50      A16S
ATOM  31553  N3   C   A1496     198.039  90.567 -19.476  1.00 86.50      A16S
ATOM  31554  C4   C   A1496     198.154  90.646 -18.148  1.00 86.50      A16S
ATOM  31555  N4   C   A1496     197.141  91.181 -17.460  1.00 86.50      A16S
ATOM  31556  C5   C   A1496     199.311  90.178 -17.465  1.00 86.50      A16S
ATOM  31557  C2*  C   A1496     202.047  90.019 -21.166  1.00 64.55      A16S
ATOM  31558  O2*  C   A1496     202.461  89.482 -22.408  1.00 64.55      A16S
ATOM  31559  C3*  C   A1496     203.238  90.273 -20.261  1.00 64.55      A16S
ATOM  31560  O3*  C   A1496     204.341  90.706 -21.037  1.00 64.55      A16S
ATOM  31561  P    G   A1497     204.863  92.215 -20.893  1.00 51.82      A16S
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ATOM  31562  O1P G   A1497     206.216  92.275 -21.504  1.00 70.69      A16S
ATOM  31563  O2P G   A1497     204.671  92.604 -19.471  1.00 70.69      A16S
ATOM  31564  O5* G   A1497     203.868  93.060 -21.801  1.00 51.82      A16S
ATOM  31565  C5* G   A1497     203.746  92.754 -23.195  1.00 51.82      A16S
ATOM  31566  C4* G   A1497     202.354  93.063 -23.706  1.00 51.82      A16S
ATOM  31567  O4* G   A1497     201.340  92.362 -22.936  1.00 51.82      A16S
ATOM  31568  C1* G   A1497     200.109  93.037 -23.080  1.00 51.82      A16S
ATOM  31569  N9  G   A1497     199.506  93.254 -21.770  1.00 70.69      A16S
ATOM  31570  C4  G   A1497     198.212  93.668 -21.532  1.00 70.69      A16S
ATOM  31571  N3  G   A1497     197.272  93.919 -22.469  1.00 70.69      A16S
ATOM  31572  C2  G   A1497     196.128  94.303 -21.930  1.00 70.69      A16S
ATOM  31573  N2  G   A1497     195.080  94.575 -22.715  1.00 70.69      A16S
ATOM  31574  N1  G   A1497     195.929  94.444 -20.581  1.00 70.69      A16S
ATOM  31575  C6  G   A1497     196.884  94.200 -19.604  1.00 70.69      A16S
ATOM  31576  O6  G   A1497     196.605  94.373 -18.419  1.00 70.69      A16S
ATOM  31577  C5  G   A1497     198.108  93.771 -20.165  1.00 70.69      A16S
ATOM  31578  N7  G   A1497     199.299  93.417 -19.554  1.00 70.69      A16S
ATOM  31579  C8  G   A1497     200.096  93.114 -20.542  1.00 70.69      A16S
ATOM  31580  C2* G   A1497     200.380  94.333 -23.845  1.00 51.82      A16S
ATOM  31581  O2* G   A1497     200.062  94.088 -25.193  1.00 51.82      A16S
ATOM  31582  C3* G   A1497     201.884  94.504 -23.698  1.00 51.82      A16S
ATOM  31583  O3* G   A1497     202.404  95.193 -24.825  1.00 51.82      A16S
ATOM  31584  P   U   A1498     202.371  96.797 -24.862  1.00 41.20      A16S
ATOM  31585  O1P U   A1498     202.810  97.287 -26.194  1.00 46.06      A16S
ATOM  31586  O2P U   A1498     203.047  97.310 -23.641  1.00 46.06      A16S
ATOM  31587  O5* U   A1498     200.820  97.123 -24.735  1.00 41.20      A16S
ATOM  31588  C5* U   A1498     199.878  96.690 -25.745  1.00 41.20      A16S
ATOM  31589  C4* U   A1498     198.613  97.505 -25.660  1.00 41.20      A16S
ATOM  31590  O4* U   A1498     197.920  97.211 -24.422  1.00 41.20      A16S
ATOM  31591  C1* U   A1498     197.738  98.389 -23.663  1.00 41.20      A16S
ATOM  31592  N1  U   A1498     198.007  98.052 -22.253  1.00 46.06      A16S
ATOM  31593  C6  U   A1498     199.110  97.327 -21.890  1.00 46.06      A16S
ATOM  31594  C2  U   A1498     197.095  98.468 -21.295  1.00 46.06      A16S
ATOM  31595  O2  U   A1498     196.114  99.144 -21.558  1.00 46.06      A16S
ATOM  31596  N3  U   A1498     197.371  98.066 -20.012  1.00 46.06      A16S
ATOM  31597  C4  U   A1498     198.437  97.319 -19.592  1.00 46.06      A16S
ATOM  31598  O4  U   A1498     198.485  96.945 -18.422  1.00 46.06      A16S
ATOM  31599  C5  U   A1498     199.351  96.956 -20.627  1.00 46.06      A16S
ATOM  31600  C2* U   A1498     198.662  99.465 -24.229  1.00 41.20      A16S
ATOM  31601  O2* U   A1498     198.101 100.756 -24.095  1.00 41.20      A16S
ATOM  31602  C3* U   A1498     198.875  98.993 -25.667  1.00 41.20      A16S
ATOM  31603  O3* U   A1498     198.511  99.678 -26.871  1.00 41.20      A16S
ATOM  31604  P   A   A1499     197.010 100.189 -27.119  1.00 34.74      A16S
ATOM  31605  O1P A   A1499     197.121 101.027 -28.362  1.00 33.39      A16S
ATOM  31606  O2P A   A1499     196.419 100.786 -25.871  1.00 33.39      A16S
ATOM  31607  O5* A   A1499     196.199  98.857 -27.444  1.00 34.74      A16S
ATOM  31608  C5* A   A1499     195.547  98.691 -28.714  1.00 34.74      A16S
ATOM  31609  C4* A   A1499     194.034  98.712 -28.562  1.00 34.74      A16S
ATOM  31610  O4* A   A1499     193.607  97.603 -27.730  1.00 34.74      A16S
ATOM  31611  C1* A   A1499     192.499  97.991 -26.950  1.00 34.74      A16S
ATOM  31612  N9  A   A1499     192.922  97.944 -25.549  1.00 33.39      A16S
ATOM  31613  C4  A   A1499     192.181  98.256 -24.436  1.00 33.39      A16S
ATOM  31614  N3  A   A1499     190.899  98.641 -24.389  1.00 33.39      A16S
ATOM  31615  C2  A   A1499     190.536  98.886 -23.136  1.00 33.39      A16S
ATOM  31616  N1  A   A1499     191.251  98.794 -22.016  1.00 33.39      A16S
ATOM  31617  C6  A   A1499     192.533  98.399 -22.108  1.00 33.39      A16S
ATOM  31618  N6  A   A1499     193.259  98.299 -21.001  1.00 33.39      A16S
ATOM  31619  C5  A   A1499     193.036  98.113 -23.367  1.00 33.39      A16S
ATOM  31620  N7  A   A1499     194.285  97.696 -23.785  1.00 33.39      A16S
ATOM  31621  C8  A   A1499     194.165  97.602 -25.081  1.00 33.39      A16S
ATOM  31622  C2* A   A1499     192.093  99.395 -27.409  1.00 34.74      A16S
ATOM  31623  O2* A   A1499     191.177  99.278 -28.469  1.00 34.74      A16S
ATOM  31624  C3* A   A1499     193.404  99.946 -27.937  1.00 34.74      A16S
ATOM  31625  O3* A   A1499     193.165 100.948 -28.917  1.00 34.74      A16S
ATOM  31626  P   A   A1500     193.237 102.504 -28.508  1.00 18.57      A16S
ATOM  31627  O1P A   A1500     193.145 103.278 -29.765  1.00 46.91      A16S
ATOM  31628  O2P A   A1500     194.371 102.731 -27.594  1.00 46.91      A16S
ATOM  31629  O5* A   A1500     191.901 102.726 -27.678  1.00 18.57      A16S
ATOM  31630  C5* A   A1500     190.622 102.375 -28.250  1.00 18.57      A16S
ATOM  31631  C4* A   A1500     189.500 102.559 -27.246  1.00 18.57      A16S
ATOM  31632  O4* A   A1500     189.582 101.567 -26.201  1.00 18.57      A16S
ATOM  31633  C1* A   A1500     189.231 102.147 -24.965  1.00 18.57      A16S
ATOM  31634  N9  A   A1500     190.426 102.131 -24.123  1.00 46.91      A16S
ATOM  31635  C4  A   A1500     190.526 102.461 -22.795  1.00 46.91      A16S
ATOM  31636  N3  A   A1500     189.556 102.913 -21.992  1.00 46.91      A16S
ATOM  31637  C2  A   A1500     190.018 103.086 -20.761  1.00 46.91      A16S
ATOM  31638  N1  A   A1500     191.244 102.878 -20.279  1.00 46.91      A16S
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ATOM  31639  C6  A  A1500     192.196 102.433 -21.113  1.00 46.91      A16S
ATOM  31640  N6  A  A1500     193.421 102.229 -20.634  1.00 46.91      A16S
ATOM  31641  C5  A  A1500     191.839 102.209 -22.443  1.00 46.91      A16S
ATOM  31642  N7  A  A1500     192.564 101.759 -23.536  1.00 46.91      A16S
ATOM  31643  C8  A  A1500     191.687 101.740 -24.505  1.00 46.91      A16S
ATOM  31644  C2* A  A1500     188.694 103.538 -25.268  1.00 18.57      A16S
ATOM  31645  O2* A  A1500     187.327 103.373 -25.580  1.00 18.57      A16S
ATOM  31646  C3* A  A1500     189.458 103.886 -26.527  1.00 18.57      A16S
ATOM  31647  O3* A  A1500     188.756 104.820 -27.309  1.00 18.57      A16S
ATOM  31648  P   C  A1501     189.224 106.344 -27.305  1.00 20.11      A16S
ATOM  31649  O1P C  A1501     188.318 107.110 -28.217  1.00 38.85      A16S
ATOM  31650  O2P C  A1501     190.699 106.404 -27.513  1.00 38.85      A16S
ATOM  31651  O5* C  A1501     188.943 106.779 -25.805  1.00 20.11      A16S
ATOM  31652  C5* C  A1501     187.612 106.814 -25.296  1.00 20.11      A16S
ATOM  31653  C4* C  A1501     187.613 107.335 -23.884  1.00 20.11      A16S
ATOM  31654  O4* C  A1501     188.248 106.383 -23.001  1.00 20.11      A16S
ATOM  31655  C1* C  A1501     188.766 107.066 -21.882  1.00 20.11      A16S
ATOM  31656  N1  C  A1501     190.139 106.615 -21.651  1.00 38.85      A16S
ATOM  31657  C6  C  A1501     190.837 105.971 -22.627  1.00 38.85      A16S
ATOM  31658  C2  C  A1501     190.721 106.852 -20.409  1.00 38.85      A16S
ATOM  31659  O2  C  A1501     190.059 107.440 -19.530  1.00 38.85      A16S
ATOM  31660  N3  C  A1501     191.989 106.442 -20.191  1.00 38.85      A16S
ATOM  31661  C4  C  A1501     192.663 105.822 -21.157  1.00 38.85      A16S
ATOM  31662  N4  C  A1501     193.914 105.451 -20.908  1.00 38.85      A16S
ATOM  31663  C5  C  A1501     192.087 105.561 -22.424  1.00 38.85      A16S
ATOM  31664  C2* C  A1501     188.602 108.571 -22.122  1.00 20.11      A16S
ATOM  31665  O2* C  A1501     187.483 109.054 -21.395  1.00 20.11      A16S
ATOM  31666  C3* C  A1501     188.358 108.626 -23.621  1.00 20.11      A16S
ATOM  31667  O3* C  A1501     187.551 109.723 -23.947  1.00 20.11      A16S
ATOM  31668  P   A  A1502     187.908 110.589 -25.227  1.00 23.80      A16S
ATOM  31669  O1P A  A1502     186.744 111.432 -25.569  1.00 49.43      A16S
ATOM  31670  O2P A  A1502     188.491 109.708 -26.255  1.00 49.43      A16S
ATOM  31671  O5* A  A1502     189.062 111.543 -24.731  1.00 23.80      A16S
ATOM  31672  C5* A  A1502     188.868 112.936 -24.832  1.00 23.80      A16S
ATOM  31673  C4* A  A1502     190.173 113.669 -24.841  1.00 23.80      A16S
ATOM  31674  O4* A  A1502     190.807 113.593 -23.552  1.00 23.80      A16S
ATOM  31675  C1* A  A1502     192.185 113.623 -23.749  1.00 23.80      A16S
ATOM  31676  N9  A  A1502     192.836 113.227 -22.503  1.00 49.43      A16S
ATOM  31677  C4  A  A1502     194.081 112.707 -22.315  1.00 49.43      A16S
ATOM  31678  N3  A  A1502     194.949 112.348 -23.256  1.00 49.43      A16S
ATOM  31679  C2  A  A1502     196.061 111.933 -22.699  1.00 49.43      A16S
ATOM  31680  N1  A  A1502     196.387 111.851 -21.398  1.00 49.43      A16S
ATOM  31681  C6  A  A1502     195.483 112.229 -20.484  1.00 49.43      A16S
ATOM  31682  N6  A  A1502     195.803 112.174 -19.196  1.00 49.43      A16S
ATOM  31683  C5  A  A1502     194.267 112.667 -20.943  1.00 49.43      A16S
ATOM  31684  N7  A  A1502     193.138 113.094 -20.277  1.00 49.43      A16S
ATOM  31685  C8  A  A1502     192.310 113.397 -21.242  1.00 49.43      A16S
ATOM  31686  C2* A  A1502     192.410 112.853 -25.047  1.00 23.80      A16S
ATOM  31687  O2* A  A1502     193.623 113.302 -25.611  1.00 23.80      A16S
ATOM  31688  C3* A  A1502     191.227 113.340 -25.890  1.00 23.80      A16S
ATOM  31689  O3* A  A1502     191.554 114.579 -26.483  1.00 23.80      A16S
ATOM  31690  P   A  A1503     190.565 115.220 -27.567  1.00 24.29      A16S
ATOM  31691  O1P A  A1503     190.718 116.683 -27.530  1.00 54.50      A16S
ATOM  31692  O2P A  A1503     189.215 114.624 -27.417  1.00 54.50      A16S
ATOM  31693  O5* A  A1503     191.175 114.741 -28.951  1.00 24.29      A16S
ATOM  31694  C5* A  A1503     190.682 113.553 -29.624  1.00 24.29      A16S
ATOM  31695  C4* A  A1503     191.766 112.940 -30.504  1.00 24.29      A16S
ATOM  31696  O4* A  A1503     192.432 113.994 -31.261  1.00 24.29      A16S
ATOM  31697  C1* A  A1503     193.811 113.987 -30.983  1.00 24.29      A16S
ATOM  31698  N9  A  A1503     194.242 115.382 -30.961  1.00 54.50      A16S
ATOM  31699  C4  A  A1503     194.952 116.023 -31.944  1.00 54.50      A16S
ATOM  31700  N3  A  A1503     195.429 115.495 -33.082  1.00 54.50      A16S
ATOM  31701  C2  A  A1503     196.037 116.429 -33.813  1.00 54.50      A16S
ATOM  31702  N1  A  A1503     196.206 117.731 -33.555  1.00 54.50      A16S
ATOM  31703  C6  A  A1503     195.711 118.227 -32.403  1.00 54.50      A16S
ATOM  31704  N6  A  A1503     195.862 119.529 -32.151  1.00 54.50      A16S
ATOM  31705  C5  A  A1503     195.054 117.338 -31.537  1.00 54.50      A16S
ATOM  31706  N7  A  A1503     194.449 117.516 -30.306  1.00 54.50      A16S
ATOM  31707  C8  A  A1503     193.992 116.327 -30.006  1.00 54.50      A16S
ATOM  31708  C2* A  A1503     193.982 113.196 -29.680  1.00 24.29      A16S
ATOM  31709  O2* A  A1503     195.256 112.600 -29.604  1.00 24.29      A16S
ATOM  31710  C3* A  A1503     192.863 112.166 -29.789  1.00 24.29      A16S
ATOM  31711  O3* A  A1503     193.248 111.130 -30.681  1.00 24.29      A16S
ATOM  31712  P   G  A1504     193.372 109.619 -30.161  1.00 22.20      A16S
ATOM  31713  O1P G  A1504     193.777 108.758 -31.298  1.00 50.02      A16S
ATOM  31714  O2P G  A1504     192.179 109.250 -29.370  1.00 50.02      A16S
ATOM  31715  O5* G  A1504     194.637 109.668 -29.216  1.00 22.20      A16S
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ATOM  31716  C5* G   A1504     194.486 109.836 -27.843  1.00 22.20      A16S
ATOM  31717  C4* G   A1504     195.176 108.728 -27.140  1.00 22.20      A16S
ATOM  31718  O4* G   A1504     194.959 108.946 -25.739  1.00 22.20      A16S
ATOM  31719  C1* G   A1504     194.329 107.825 -25.175  1.00 22.20      A16S
ATOM  31720  N9  G   A1504     193.380 108.327 -24.196  1.00 50.02      A16S
ATOM  31721  C4  G   A1504     193.648 108.563 -22.886  1.00 50.02      A16S
ATOM  31722  N3  G   A1504     194.822 108.359 -22.281  1.00 50.02      A16S
ATOM  31723  C2  G   A1504     194.776 108.678 -21.014  1.00 50.02      A16S
ATOM  31724  N2  G   A1504     195.857 108.545 -20.256  1.00 50.02      A16S
ATOM  31725  N1  G   A1504     193.671 109.153 -20.392  1.00 50.02      A16S
ATOM  31726  C6  G   A1504     192.447 109.369 -21.001  1.00 50.02      A16S
ATOM  31727  O6  G   A1504     191.493 109.799 -20.339  1.00 50.02      A16S
ATOM  31728  C5  G   A1504     192.484 109.038 -22.356  1.00 50.02      A16S
ATOM  31729  N7  G   A1504     191.493 109.104 -23.319  1.00 50.02      A16S
ATOM  31730  C8  G   A1504     192.071 108.670 -24.397  1.00 50.02      A16S
ATOM  31731  C2* G   A1504     193.720 107.018 -26.322  1.00 22.20      A16S
ATOM  31732  O2* G   A1504     193.748 105.640 -25.996  1.00 22.20      A16S
ATOM  31733  C3* G   A1504     194.685 107.319 -27.460  1.00 22.20      A16S
ATOM  31734  O3* G   A1504     195.771 106.411 -27.322  1.00 22.20      A16S
ATOM  31735  P   G   A1505     195.994 105.244 -28.393  1.00 38.65      A16S
ATOM  31736  O1P G   A1505     194.812 105.235 -29.284  1.00 29.78      A16S
ATOM  31737  O2P G   A1505     196.367 104.005 -27.672  1.00 29.78      A16S
ATOM  31738  O5* G   A1505     197.289 105.741 -29.188  1.00 38.65      A16S
ATOM  31739  C5* G   A1505     197.190 106.619 -30.339  1.00 38.65      A16S
ATOM  31740  C4* G   A1505     198.350 107.594 -30.362  1.00 38.65      A16S
ATOM  31741  O4* G   A1505     198.169 108.524 -29.282  1.00 38.65      A16S
ATOM  31742  C1* G   A1505     199.398 108.775 -28.651  1.00 38.65      A16S
ATOM  31743  N9  G   A1505     199.246 108.433 -27.245  1.00 29.78      A16S
ATOM  31744  C4  G   A1505     198.777 109.288 -26.291  1.00 29.78      A16S
ATOM  31745  N3  G   A1505     198.437 110.569 -26.497  1.00 29.78      A16S
ATOM  31746  C2  G   A1505     197.967 111.130 -25.412  1.00 29.78      A16S
ATOM  31747  N2  G   A1505     197.549 112.408 -25.459  1.00 29.78      A16S
ATOM  31748  N1  G   A1505     197.865 110.488 -24.208  1.00 29.78      A16S
ATOM  31749  C6  G   A1505     198.225 109.176 -23.967  1.00 29.78      A16S
ATOM  31750  O6  G   A1505     198.108 108.709 -22.835  1.00 29.78      A16S
ATOM  31751  C5  G   A1505     198.707 108.551 -25.134  1.00 29.78      A16S
ATOM  31752  N7  G   A1505     199.152 107.253 -25.349  1.00 29.78      A16S
ATOM  31753  C8  G   A1505     199.474 107.232 -26.616  1.00 29.78      A16S
ATOM  31754  C2* G   A1505     200.498 108.079 -29.436  1.00 38.65      A16S
ATOM  31755  O2* G   A1505     200.998 109.080 -30.291  1.00 38.65      A16S
ATOM  31756  C3* G   A1505     199.733 106.985 -30.180  1.00 38.65      A16S
ATOM  31757  O3* G   A1505     200.359 106.847 -31.460  1.00 38.65      A16S
ATOM  31758  P   U   A1506     200.193 105.500 -32.325  1.00 39.29      A16S
ATOM  31759  O1P U   A1506     199.815 104.359 -31.417  1.00 37.19      A16S
ATOM  31760  O2P U   A1506     201.414 105.390 -33.180  1.00 37.19      A16S
ATOM  31761  O5* U   A1506     199.001 105.859 -33.313  1.00 39.29      A16S
ATOM  31762  C5* U   A1506     199.121 106.967 -34.218  1.00 39.29      A16S
ATOM  31763  C4* U   A1506     198.069 106.864 -35.287  1.00 39.29      A16S
ATOM  31764  O4* U   A1506     198.179 105.547 -35.884  1.00 39.29      A16S
ATOM  31765  C1* U   A1506     196.967 104.856 -35.735  1.00 39.29      A16S
ATOM  31766  N1  U   A1506     197.276 103.428 -35.578  1.00 37.19      A16S
ATOM  31767  C6  U   A1506     197.898 102.951 -34.461  1.00 37.19      A16S
ATOM  31768  C2  U   A1506     196.907 102.579 -36.600  1.00 37.19      A16S
ATOM  31769  O2  U   A1506     196.404 102.971 -37.639  1.00 37.19      A16S
ATOM  31770  N3  U   A1506     197.162 101.254 -36.372  1.00 37.19      A16S
ATOM  31771  C4  U   A1506     197.759 100.707 -35.262  1.00 37.19      A16S
ATOM  31772  O4  U   A1506     197.829  99.482 -35.148  1.00 37.19      A16S
ATOM  31773  C5  U   A1506     198.151 101.655 -34.275  1.00 37.19      A16S
ATOM  31774  C2* U   A1506     196.237 105.541 -34.574  1.00 39.29      A16S
ATOM  31775  O2* U   A1506     194.837 105.354 -34.612  1.00 39.29      A16S
ATOM  31776  C3* U   A1506     196.636 106.993 -34.792  1.00 39.29      A16S
ATOM  31777  O3* U   A1506     195.841 107.512 -35.859  1.00 39.29      A16S
ATOM  31778  P   A   A1507     195.491 109.080 -35.931  1.00 33.20      A16S
ATOM  31779  O1P A   A1507     195.024 109.392 -37.318  1.00 40.51      A16S
ATOM  31780  O2P A   A1507     196.599 109.873 -35.328  1.00 40.51      A16S
ATOM  31781  O5* A   A1507     194.224 109.246 -34.986  1.00 33.20      A16S
ATOM  31782  C5* A   A1507     193.141 108.309 -35.040  1.00 33.20      A16S
ATOM  31783  C4* A   A1507     192.110 108.655 -34.005  1.00 33.20      A16S
ATOM  31784  O4* A   A1507     191.375 109.828 -34.421  1.00 33.20      A16S
ATOM  31785  C1* A   A1507     190.009 109.673 -34.097  1.00 33.20      A16S
ATOM  31786  N9  A   A1507     189.256 109.630 -35.350  1.00 40.51      A16S
ATOM  31787  C4  A   A1507     187.892 109.609 -35.500  1.00 40.51      A16S
ATOM  31788  N3  A   A1507     186.964 109.623 -34.532  1.00 40.51      A16S
ATOM  31789  C2  A   A1507     185.743 109.586 -35.057  1.00 40.51      A16S
ATOM  31790  N1  A   A1507     185.373 109.534 -36.340  1.00 40.51      A16S
ATOM  31791  C6  A   A1507     186.334 109.513 -37.284  1.00 40.51      A16S
ATOM  31792  N6  A   A1507     185.974 109.451 -38.562  1.00 40.51      A16S
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ATOM  31793  C5  A  A1507     187.664 109.555 -36.860  1.00 40.51      A16S
ATOM  31794  N7  A  A1507     188.858 109.543 -37.558  1.00 40.51      A16S
ATOM  31795  C8  A  A1507     189.769 109.591 -36.620  1.00 40.51      A16S
ATOM  31796  C2* A  A1507     189.879 108.376 -33.306  1.00 33.20      A16S
ATOM  31797  O2* A  A1507     190.021 108.659 -31.931  1.00 33.20      A16S
ATOM  31798  C3* A  A1507     191.062 107.590 -33.827  1.00 33.20      A16S
ATOM  31799  O3* A  A1507     191.526 106.645 -32.904  1.00 33.20      A16S
ATOM  31800  P   G  A1508     191.190 105.103 -33.131  1.00 22.35      A16S
ATOM  31801  O1P G  A1508     192.105 104.304 -32.274  1.00 28.51      A16S
ATOM  31802  O2P G  A1508     191.143 104.853 -34.580  1.00 28.51      A16S
ATOM  31803  O5* G  A1508     189.716 104.941 -32.564  1.00 22.35      A16S
ATOM  31804  C5* G  A1508     189.425 105.164 -31.170  1.00 22.35      A16S
ATOM  31805  C4* G  A1508     187.941 105.362 -30.977  1.00 22.35      A16S
ATOM  31806  O4* G  A1508     187.506 106.493 -31.774  1.00 22.35      A16S
ATOM  31807  C1* G  A1508     186.207 106.259 -32.264  1.00 22.35      A16S
ATOM  31808  N9  G  A1508     186.248 106.301 -33.714  1.00 28.51      A16S
ATOM  31809  C4  G  A1508     185.186 106.541 -34.542  1.00 28.51      A16S
ATOM  31810  N3  G  A1508     183.920 106.814 -34.153  1.00 28.51      A16S
ATOM  31811  C2  G  A1508     183.116 106.996 -35.187  1.00 28.51      A16S
ATOM  31812  N2  G  A1508     181.836 107.295 -34.990  1.00 28.51      A16S
ATOM  31813  N1  G  A1508     183.516 106.907 -36.488  1.00 28.51      A16S
ATOM  31814  C6  G  A1508     184.806 106.633 -36.907  1.00 28.51      A16S
ATOM  31815  O6  G  A1508     185.055 106.593 -38.103  1.00 28.51      A16S
ATOM  31816  C5  G  A1508     185.684 106.439 -35.814  1.00 28.51      A16S
ATOM  31817  N7  G  A1508     187.039 106.150 -35.787  1.00 28.51      A16S
ATOM  31818  C8  G  A1508     187.328 106.084 -34.520  1.00 28.51      A16S
ATOM  31819  C2* G  A1508     185.751 104.898 -31.749  1.00 22.35      A16S
ATOM  31820  O2* G  A1508     185.024 105.099 -30.566  1.00 22.35      A16S
ATOM  31821  C3* G  A1508     187.069 104.216 -31.450  1.00 22.35      A16S
ATOM  31822  O3* G  A1508     186.915 103.249 -30.432  1.00 22.35      A16S
ATOM  31823  P   C  A1509     186.520 101.749 -30.832  1.00 15.72      A16S
ATOM  31824  O1P C  A1509     186.523 100.894 -29.604  1.00 32.87      A16S
ATOM  31825  O2P C  A1509     187.375 101.372 -31.980  1.00 32.87      A16S
ATOM  31826  O5* C  A1509     185.029 101.888 -31.371  1.00 15.72      A16S
ATOM  31827  C5* C  A1509     183.979 102.164 -30.457  1.00 15.72      A16S
ATOM  31828  C4* C  A1509     182.709 102.530 -31.181  1.00 15.72      A16S
ATOM  31829  O4* C  A1509     182.917 103.647 -32.079  1.00 15.72      A16S
ATOM  31830  C1* C  A1509     182.036 103.540 -33.176  1.00 15.72      A16S
ATOM  31831  N1  C  A1509     182.841 103.440 -34.398  1.00 32.87      A16S
ATOM  31832  C6  C  A1509     184.155 103.080 -34.341  1.00 32.87      A16S
ATOM  31833  C2  C  A1509     182.250 103.739 -35.619  1.00 32.87      A16S
ATOM  31834  O2  C  A1509     181.043 103.982 -35.655  1.00 32.87      A16S
ATOM  31835  N3  C  A1509     183.000 103.738 -36.732  1.00 32.87      A16S
ATOM  31836  C4  C  A1509     184.284 103.417 -36.665  1.00 32.87      A16S
ATOM  31837  N4  C  A1509     184.992 103.447 -37.790  1.00 32.87      A16S
ATOM  31838  C5  C  A1509     184.904 103.053 -35.440  1.00 32.87      A16S
ATOM  31839  C2* C  A1509     181.173 102.308 -32.941  1.00 15.72      A16S
ATOM  31840  O2* C  A1509     180.036 102.744 -32.236  1.00 15.72      A16S
ATOM  31841  C3* C  A1509     182.080 101.474 -32.054  1.00 15.72      A16S
ATOM  31842  O3* C  A1509     181.369 100.555 -31.264  1.00 15.72      A16S
ATOM  31843  P   U  A1510     181.368  99.011 -31.678  1.00 27.51      A16S
ATOM  31844  O1P U  A1510     180.600  98.262 -30.639  1.00 39.17      A16S
ATOM  31845  O2P U  A1510     182.764  98.618 -31.978  1.00 39.17      A16S
ATOM  31846  O5* U  A1510     180.531  99.035 -33.027  1.00 27.51      A16S
ATOM  31847  C5* U  A1510     179.235  99.616 -33.019  1.00 27.51      A16S
ATOM  31848  C4* U  A1510     178.699  99.742 -34.409  1.00 27.51      A16S
ATOM  31849  O4* U  A1510     179.426 100.737 -35.153  1.00 27.51      A16S
ATOM  31850  C1* U  A1510     179.367 100.419 -36.526  1.00 27.51      A16S
ATOM  31851  N1  U  A1510     180.735 100.387 -37.055  1.00 39.17      A16S
ATOM  31852  C6  U  A1510     181.816 100.161 -36.237  1.00 39.17      A16S
ATOM  31853  C2  U  A1510     180.893 100.585 -38.410  1.00 39.17      A16S
ATOM  31854  O2  U  A1510     179.959 100.802 -39.157  1.00 39.17      A16S
ATOM  31855  N3  U  A1510     182.183 100.520 -38.856  1.00 39.17      A16S
ATOM  31856  C4  U  A1510     183.311 100.288 -38.093  1.00 39.17      A16S
ATOM  31857  O4  U  A1510     184.416 100.244 -38.642  1.00 39.17      A16S
ATOM  31858  C5  U  A1510     183.063 100.107 -36.695  1.00 39.17      A16S
ATOM  31859  C2* U  A1510     178.617  99.093 -36.666  1.00 27.51      A16S
ATOM  31860  O2* U  A1510     177.259  99.364 -36.937  1.00 27.51      A16S
ATOM  31861  C3* U  A1510     178.762  98.511 -35.274  1.00 27.51      A16S
ATOM  31862  O3* U  A1510     177.688  97.675 -34.959  1.00 27.51      A16S
ATOM  31863  P   G  A1511     177.893  96.097 -35.002  1.00 20.12      A16S
ATOM  31864  O1P G  A1511     176.806  95.500 -34.174  1.00 37.20      A16S
ATOM  31865  O2P G  A1511     179.309  95.790 -34.671  1.00 37.20      A16S
ATOM  31866  O5* G  A1511     177.598  95.767 -36.534  1.00 20.12      A16S
ATOM  31867  C5* G  A1511     176.232  95.743 -37.018  1.00 20.12      A16S
ATOM  31868  C4* G  A1511     176.182  95.425 -38.496  1.00 20.12      A16S
ATOM  31869  O4* G  A1511     176.712  96.544 -39.240  1.00 20.12      A16S
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ATOM  31870  C1* G   A1511     177.429  96.079 -40.359  1.00 20.12      A16S
ATOM  31871  N9  G   A1511     178.823  96.467 -40.171  1.00 37.20      A16S
ATOM  31872  C4  G   A1511     179.794  96.585 -41.141  1.00 37.20      A16S
ATOM  31873  N3  G   A1511     179.637  96.337 -42.459  1.00 37.20      A16S
ATOM  31874  C2  G   A1511     180.750  96.538 -43.131  1.00 37.20      A16S
ATOM  31875  N2  G   A1511     180.779  96.319 -44.442  1.00 37.20      A16S
ATOM  31876  N1  G   A1511     181.921  96.963 -42.561  1.00 37.20      A16S
ATOM  31877  C6  G   A1511     182.104  97.224 -41.209  1.00 37.20      A16S
ATOM  31878  O6  G   A1511     183.204  97.597 -40.797  1.00 37.20      A16S
ATOM  31879  C5  G   A1511     180.924  97.001 -40.476  1.00 37.20      A16S
ATOM  31880  N7  G   A1511     180.679  97.128 -39.118  1.00 37.20      A16S
ATOM  31881  C8  G   A1511     179.425  96.799 -38.982  1.00 37.20      A16S
ATOM  31882  C2* G   A1511     177.243  94.565 -40.420  1.00 20.12      A16S
ATOM  31883  O2* G   A1511     176.142  94.266 -41.251  1.00 20.12      A16S
ATOM  31884  C3* G   A1511     176.981  94.226 -38.966  1.00 20.12      A16S
ATOM  31885  O3* G   A1511     176.277  93.001 -38.824  1.00 20.12      A16S
ATOM  31886  P   U   A1512     177.099  91.663 -38.469  1.00 24.11      A16S
ATOM  31887  O1P U   A1512     176.187  90.498 -38.288  1.00 30.31      A16S
ATOM  31888  O2P U   A1512     178.057  92.013 -37.379  1.00 30.31      A16S
ATOM  31889  O5* U   A1512     177.930  91.400 -39.799  1.00 24.11      A16S
ATOM  31890  C5* U   A1512     177.281  91.327 -41.081  1.00 24.11      A16S
ATOM  31891  C4* U   A1512     178.304  91.453 -42.178  1.00 24.11      A16S
ATOM  31892  O4* U   A1512     178.878  92.778 -42.163  1.00 24.11      A16S
ATOM  31893  C1* U   A1512     180.213  92.727 -42.612  1.00 24.11      A16S
ATOM  31894  N1  U   A1512     181.078  93.349 -41.601  1.00 30.31      A16S
ATOM  31895  C6  U   A1512     180.653  93.539 -40.322  1.00 30.31      A16S
ATOM  31896  C2  U   A1512     182.355  93.721 -41.986  1.00 30.31      A16S
ATOM  31897  O2  U   A1512     182.762  93.616 -43.135  1.00 30.31      A16S
ATOM  31898  N3  U   A1512     183.139  94.231 -40.983  1.00 30.31      A16S
ATOM  31899  C4  U   A1512     182.778  94.421 -39.673  1.00 30.31      A16S
ATOM  31900  O4  U   A1512     183.606  94.860 -38.870  1.00 30.31      A16S
ATOM  31901  C5  U   A1512     181.433  94.050 -39.372  1.00 30.31      A16S
ATOM  31902  C2* U   A1512     180.550  91.264 -42.904  1.00 24.11      A16S
ATOM  31903  O2* U   A1512     180.403  91.047 -44.290  1.00 24.11      A16S
ATOM  31904  C3* U   A1512     179.498  90.526 -42.089  1.00 24.11      A16S
ATOM  31905  O3* U   A1512     179.155  89.303 -42.698  1.00 24.11      A16S
ATOM  31906  P   A   A1513     179.847  87.941 -42.221  1.00 23.87      A16S
ATOM  31907  O1P A   A1513     179.059  86.873 -42.880  1.00 31.30      A16S
ATOM  31908  O2P A   A1513     180.068  87.897 -40.758  1.00 31.30      A16S
ATOM  31909  O5* A   A1513     181.277  88.008 -42.890  1.00 23.87      A16S
ATOM  31910  C5* A   A1513     181.432  87.869 -44.299  1.00 23.87      A16S
ATOM  31911  C4* A   A1513     182.867  88.100 -44.663  1.00 23.87      A16S
ATOM  31912  O4* A   A1513     183.180  89.504 -44.482  1.00 23.87      A16S
ATOM  31913  C1* A   A1513     184.538  89.628 -44.126  1.00 23.87      A16S
ATOM  31914  N9  A   A1513     184.636  90.428 -42.914  1.00 31.30      A16S
ATOM  31915  C4  A   A1513     185.678  91.263 -42.611  1.00 31.30      A16S
ATOM  31916  N3  A   A1513     186.754  91.519 -43.366  1.00 31.30      A16S
ATOM  31917  C2  A   A1513     187.582  92.347 -42.737  1.00 31.30      A16S
ATOM  31918  N1  A   A1513     187.466  92.903 -41.536  1.00 31.30      A16S
ATOM  31919  C6  A   A1513     186.373  92.628 -40.803  1.00 31.30      A16S
ATOM  31920  N6  A   A1513     186.273  93.180 -39.594  1.00 31.30      A16S
ATOM  31921  C5  A   A1513     185.409  91.766 -41.364  1.00 31.30      A16S
ATOM  31922  N7  A   A1513     184.197  91.283 -40.899  1.00 31.30      A16S
ATOM  31923  C8  A   A1513     183.781  90.498 -41.858  1.00 31.30      A16S
ATOM  31924  C2* A   A1513     185.131  88.221 -43.965  1.00 23.87      A16S
ATOM  31925  O2* A   A1513     185.867  87.854 -45.113  1.00 23.87      A16S
ATOM  31926  C3* A   A1513     183.887  87.367 -43.799  1.00 23.87      A16S
ATOM  31927  O3* A   A1513     184.103  86.033 -44.245  1.00 23.87      A16S
ATOM  31928  P   C   A1514     184.741  84.939 -43.247  1.00 27.44      A16S
ATOM  31929  O1P C   A1514     184.577  83.622 -43.912  1.00 49.14      A16S
ATOM  31930  O2P C   A1514     184.208  85.120 -41.880  1.00 49.14      A16S
ATOM  31931  O5* C   A1514     186.291  85.306 -43.231  1.00 27.44      A16S
ATOM  31932  C5* C   A1514     187.090  85.060 -44.390  1.00 27.44      A16S
ATOM  31933  C4* C   A1514     188.445  85.718 -44.273  1.00 27.44      A16S
ATOM  31934  O4* C   A1514     188.313  87.158 -44.162  1.00 27.44      A16S
ATOM  31935  C1* C   A1514     189.393  87.673 -43.409  1.00 27.44      A16S
ATOM  31936  N1  C   A1514     188.849  88.333 -42.207  1.00 49.14      A16S
ATOM  31937  C6  C   A1514     187.588  88.055 -41.770  1.00 49.14      A16S
ATOM  31938  C2  C   A1514     189.640  89.249 -41.517  1.00 49.14      A16S
ATOM  31939  O2  C   A1514     190.781  89.479 -41.915  1.00 49.14      A16S
ATOM  31940  N3  C   A1514     189.141  89.859 -40.430  1.00 49.14      A16S
ATOM  31941  C4  C   A1514     187.909  89.583 -40.020  1.00 49.14      A16S
ATOM  31942  N4  C   A1514     187.459  90.213 -38.944  1.00 49.14      A16S
ATOM  31943  C5  C   A1514     187.086  88.652 -40.692  1.00 49.14      A16S
ATOM  31944  C2* C   A1514     190.308  86.493 -43.077  1.00 27.44      A16S
ATOM  31945  O2* C   A1514     191.251  86.329 -44.124  1.00 27.44      A16S
ATOM  31946  C3* C   A1514     189.334  85.332 -43.108  1.00 27.44      A16S
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ATOM  31947  O3* C   A1514     190.031  84.132 -43.354  1.00 27.44      A16S
ATOM  31948  P    C   A1515     190.453  83.205 -42.118  1.00 29.19      A16S
ATOM  31949  O1P C   A1515     190.993  81.966 -42.735  1.00 43.56      A16S
ATOM  31950  O2P C   A1515     189.334  83.112 -41.149  1.00 43.56      A16S
ATOM  31951  O5* C   A1515     191.625  84.016 -41.403  1.00 29.19      A16S
ATOM  31952  C5* C   A1515     192.917  84.127 -42.023  1.00 29.19      A16S
ATOM  31953  C4* C   A1515     193.826  85.029 -41.224  1.00 29.19      A16S
ATOM  31954  O4* C   A1515     193.281  86.366 -41.216  1.00 29.19      A16S
ATOM  31955  C1* C   A1515     193.579  86.993 -39.983  1.00 29.19      A16S
ATOM  31956  N1   C   A1515     192.311  87.295 -39.287  1.00 43.56      A16S
ATOM  31957  C6   C   A1515     191.155  86.676 -39.656  1.00 43.56      A16S
ATOM  31958  C2   C   A1515     192.310  88.206 -38.229  1.00 43.56      A16S
ATOM  31959  O2   C   A1515     193.364  88.777 -37.921  1.00 43.56      A16S
ATOM  31960  N3   C   A1515     191.163  88.440 -37.566  1.00 43.56      A16S
ATOM  31961  C4   C   A1515     190.050  87.802 -37.916  1.00 43.56      A16S
ATOM  31962  N4   C   A1515     188.947  88.028 -37.211  1.00 43.56      A16S
ATOM  31963  C5   C   A1515     190.016  86.896 -39.000  1.00 43.56      A16S
ATOM  31964  C2* C   A1515     194.459  86.033 -39.186  1.00 29.19      A16S
ATOM  31965  O2* C   A1515     195.794  86.350 -39.500  1.00 29.19      A16S
ATOM  31966  C3* C   A1515     194.047  84.685 -39.759  1.00 29.19      A16S
ATOM  31967  O3* C   A1515     195.075  83.710 -39.610  1.00 29.19      A16S
ATOM  31968  P    G   A1516     195.182  82.844 -38.257  1.00 49.41      A16S
ATOM  31969  O1P G   A1516     196.336  81.923 -38.402  1.00 67.42      A16S
ATOM  31970  O2P G   A1516     193.845  82.288 -37.946  1.00 67.42      A16S
ATOM  31971  O5* G   A1516     195.608  83.926 -37.170  1.00 49.41      A16S
ATOM  31972  C5* G   A1516     196.878  84.607 -37.288  1.00 49.41      A16S
ATOM  31973  C4* G   A1516     197.112  85.520 -36.109  1.00 49.41      A16S
ATOM  31974  O4* G   A1516     196.223  86.663 -36.175  1.00 49.41      A16S
ATOM  31975  C1* G   A1516     195.794  87.007 -34.866  1.00 49.41      A16S
ATOM  31976  N9   G   A1516     194.345  86.822 -34.778  1.00 67.42      A16S
ATOM  31977  C4   G   A1516     193.492  87.477 -33.919  1.00 67.42      A16S
ATOM  31978  N3   G   A1516     193.842  88.431 -33.027  1.00 67.42      A16S
ATOM  31979  C2   G   A1516     192.802  88.862 -32.329  1.00 67.42      A16S
ATOM  31980  N2   G   A1516     192.978  89.816 -31.390  1.00 67.42      A16S
ATOM  31981  N1   G   A1516     191.517  88.389 -32.495  1.00 67.42      A16S
ATOM  31982  C6   G   A1516     191.135  87.401 -33.399  1.00 67.42      A16S
ATOM  31983  O6   G   A1516     189.954  87.032 -33.449  1.00 67.42      A16S
ATOM  31984  C5   G   A1516     192.243  86.938 -34.160  1.00 67.42      A16S
ATOM  31985  N7   G   A1516     192.306  85.982 -35.165  1.00 67.42      A16S
ATOM  31986  C8   G   A1516     193.568  85.950 -35.503  1.00 67.42      A16S
ATOM  31987  C2* G   A1516     196.527  86.094 -33.881  1.00 49.41      A16S
ATOM  31988  O2* G   A1516     197.677  86.746 -33.371  1.00 49.41      A16S
ATOM  31989  C3* G   A1516     196.838  84.890 -34.758  1.00 49.41      A16S
ATOM  31990  O3* G   A1516     197.937  84.132 -34.291  1.00 49.41      A16S
ATOM  31991  P    G   A1517     197.673  82.905 -33.298  1.00 71.16      A16S
ATOM  31992  O1P G   A1517     196.403  82.220 -33.704  1.00 76.66      A16S
ATOM  31993  O2P G   A1517     198.931  82.124 -33.180  1.00 76.66      A16S
ATOM  31994  O5* G   A1517     197.392  83.632 -31.914  1.00 71.16      A16S
ATOM  31995  C5* G   A1517     198.465  84.071 -31.054  1.00 71.16      A16S
ATOM  31996  C4* G   A1517     198.023  83.981 -29.613  1.00 71.16      A16S
ATOM  31997  O4* G   A1517     199.131  84.240 -28.723  1.00 71.16      A16S
ATOM  31998  C1* G   A1517     198.659  84.891 -27.559  1.00 71.16      A16S
ATOM  31999  N9   G   A1517     199.268  86.216 -27.485  1.00 76.66      A16S
ATOM  32000  C4   G   A1517     199.219  87.067 -26.405  1.00 76.66      A16S
ATOM  32001  N3   G   A1517     198.592  86.822 -25.232  1.00 76.66      A16S
ATOM  32002  C2   G   A1517     198.731  87.816 -24.378  1.00 76.66      A16S
ATOM  32003  N2   G   A1517     198.181  87.723 -23.158  1.00 76.66      A16S
ATOM  32004  N1   G   A1517     199.423  88.971 -24.654  1.00 76.66      A16S
ATOM  32005  C6   G   A1517     200.078  89.248 -25.853  1.00 76.66      A16S
ATOM  32006  O6   G   A1517     200.687  90.325 -25.994  1.00 76.66      A16S
ATOM  32007  C5   G   A1517     199.937  88.177 -26.782  1.00 76.66      A16S
ATOM  32008  N7   G   A1517     200.420  88.035 -28.076  1.00 76.66      A16S
ATOM  32009  C8   G   A1517     199.996  86.860 -28.452  1.00 76.66      A16S
ATOM  32010  C2* G   A1517     197.143  84.990 -27.676  1.00 71.16      A16S
ATOM  32011  O2* G   A1517     196.539  83.856 -27.085  1.00 71.16      A16S
ATOM  32012  C3* G   A1517     196.977  84.986 -29.178  1.00 71.16      A16S
ATOM  32013  O3* G   A1517     195.672  84.639 -29.566  1.00 71.16      A16S
ATOM  32014  P    A   A1518     194.738  85.767 -30.227  1.00 51.74      A16S
ATOM  32015  O1P A   A1518     193.570  85.069 -30.842  1.00 64.39      A16S
ATOM  32016  O2P A   A1518     195.588  86.677 -31.063  1.00 64.39      A16S
ATOM  32017  O5* A   A1518     194.251  86.630 -28.985  1.00 51.74      A16S
ATOM  32018  C5* A   A1518     193.584  86.039 -27.867  1.00 51.74      A16S
ATOM  32019  C4* A   A1518     193.590  87.021 -26.746  1.00 51.74      A16S
ATOM  32020  O4* A   A1518     194.978  87.265 -26.424  1.00 51.74      A16S
ATOM  32021  C1* A   A1518     195.189  88.645 -26.206  1.00 51.74      A16S
ATOM  32022  N9   A   A1518     196.185  89.113 -27.173  1.00 64.39      A16S
ATOM  32023  C4   A   A1518     197.002  90.208 -27.024  1.00 64.39      A16S
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ATOM  32024  N3  A  A1518     197.067  91.038 -25.965  1.00 64.39      A16S
ATOM  32025  C2  A  A1518     197.972  91.989 -26.172  1.00 64.39      A16S
ATOM  32026  N1  A  A1518     198.763  92.197 -27.246  1.00 64.39      A16S
ATOM  32027  C6  A  A1518     198.665  91.350 -28.300  1.00 64.39      A16S
ATOM  32028  N6  A  A1518     199.433  91.569 -29.376  1.00 64.39      A16S
ATOM  32029  C5  A  A1518     197.744  90.286 -28.196  1.00 64.39      A16S
ATOM  32030  N7  A  A1518     197.413  89.250 -29.060  1.00 64.39      A16S
ATOM  32031  C8  A  A1518     196.492  88.582 -28.408  1.00 64.39      A16S
ATOM  32032  C2* A  A1518     193.833  89.353 -26.316  1.00 51.74      A16S
ATOM  32033  O2* A  A1518     193.281  89.543 -25.033  1.00 51.74      A16S
ATOM  32034  C3* A  A1518     193.037  88.374 -27.168  1.00 51.74      A16S
ATOM  32035  O3* A  A1518     191.624  88.444 -26.963  1.00 51.74      A16S
ATOM  32036  P   A  A1519     190.654  88.893 -28.174  1.00 40.88      A16S
ATOM  32037  O1P A  A1519     189.260  88.497 -27.799  1.00 68.62      A16S
ATOM  32038  O2P A  A1519     191.212  88.444 -29.469  1.00 68.62      A16S
ATOM  32039  O5* A  A1519     190.756  90.477 -28.154  1.00 40.88      A16S
ATOM  32040  C5* A  A1519     189.845  91.226 -27.361  1.00 40.88      A16S
ATOM  32041  C4* A  A1519     190.594  92.116 -26.428  1.00 40.88      A16S
ATOM  32042  O4* A  A1519     191.915  91.559 -26.204  1.00 40.88      A16S
ATOM  32043  C1* A  A1519     192.847  92.610 -26.024  1.00 40.88      A16S
ATOM  32044  N9  A  A1519     193.823  92.594 -27.118  1.00 68.62      A16S
ATOM  32045  C4  A  A1519     194.907  93.437 -27.182  1.00 68.62      A16S
ATOM  32046  N3  A  A1519     195.296  94.324 -26.249  1.00 68.62      A16S
ATOM  32047  C2  A  A1519     196.349  95.011 -26.666  1.00 68.62      A16S
ATOM  32048  N1  A  A1519     197.009  94.930 -27.830  1.00 68.62      A16S
ATOM  32049  C6  A  A1519     196.592  94.032 -28.754  1.00 68.62      A16S
ATOM  32050  N6  A  A1519     197.240  93.978 -29.924  1.00 68.62      A16S
ATOM  32051  C5  A  A1519     195.485  93.219 -28.419  1.00 68.62      A16S
ATOM  32052  N7  A  A1519     194.818  92.206 -29.101  1.00 68.62      A16S
ATOM  32053  C8  A  A1519     193.850  91.859 -28.284  1.00 68.62      A16S
ATOM  32054  C2* A  A1519     192.060  93.917 -26.099  1.00 40.88      A16S
ATOM  32055  O2* A  A1519     191.674  94.287 -24.794  1.00 40.88      A16S
ATOM  32056  C3* A  A1519     190.878  93.501 -26.958  1.00 40.88      A16S
ATOM  32057  O3* A  A1519     189.763  94.356 -26.810  1.00 40.88      A16S
ATOM  32058  P   G  A1520     189.068  95.004 -28.115  1.00 24.77      A16S
ATOM  32059  O1P G  A1520     188.803  96.442 -27.828  1.00 51.70      A16S
ATOM  32060  O2P G  A1520     187.955  94.126 -28.538  1.00 51.70      A16S
ATOM  32061  O5* G  A1520     190.168  94.960 -29.262  1.00 24.77      A16S
ATOM  32062  C5* G  A1520     191.364  95.734 -29.156  1.00 24.77      A16S
ATOM  32063  C4* G  A1520     192.394  95.224 -30.126  1.00 24.77      A16S
ATOM  32064  O4* G  A1520     192.291  93.783 -30.197  1.00 24.77      A16S
ATOM  32065  C1* G  A1520     192.626  93.349 -31.492  1.00 24.77      A16S
ATOM  32066  N9  G  A1520     191.487  92.613 -32.025  1.00 51.70      A16S
ATOM  32067  C4  G  A1520     191.446  91.895 -33.193  1.00 51.70      A16S
ATOM  32068  N3  G  A1520     192.457  91.749 -34.066  1.00 51.70      A16S
ATOM  32069  C2  G  A1520     192.118  90.996 -35.089  1.00 51.70      A16S
ATOM  32070  N2  G  A1520     193.017  90.747 -36.050  1.00 51.70      A16S
ATOM  32071  N1  G  A1520     190.880  90.431 -35.247  1.00 51.70      A16S
ATOM  32072  C6  G  A1520     189.824  90.564 -34.358  1.00 51.70      A16S
ATOM  32073  O6  G  A1520     188.740  89.998 -34.587  1.00 51.70      A16S
ATOM  32074  C5  G  A1520     190.179  91.374 -33.256  1.00 51.70      A16S
ATOM  32075  N7  G  A1520     189.435  91.763 -32.155  1.00 51.70      A16S
ATOM  32076  C8  G  A1520     190.251  92.495 -31.455  1.00 51.70      A16S
ATOM  32077  C2* G  A1520     193.017  94.585 -32.304  1.00 24.77      A16S
ATOM  32078  O2* G  A1520     194.413  94.747 -32.188  1.00 24.77      A16S
ATOM  32079  C3* G  A1520     192.289  95.690 -31.564  1.00 24.77      A16S
ATOM  32080  O3* G  A1520     193.012  96.892 -31.680  1.00 24.77      A16S
ATOM  32081  P   G  A1521     192.798  97.839 -32.944  1.00 29.95      A16S
ATOM  32082  O1P G  A1521     193.645  99.042 -32.714  1.00 41.61      A16S
ATOM  32083  O2P G  A1521     191.351  97.991 -33.211  1.00 41.61      A16S
ATOM  32084  O5* G  A1521     193.434  97.030 -34.151  1.00 29.95      A16S
ATOM  32085  C5* G  A1521     194.862  96.943 -34.299  1.00 29.95      A16S
ATOM  32086  C4* G  A1521     195.209  96.292 -35.611  1.00 29.95      A16S
ATOM  32087  O4* G  A1521     194.749  94.915 -35.611  1.00 29.95      A16S
ATOM  32088  C1* G  A1521     194.311  94.571 -36.908  1.00 29.95      A16S
ATOM  32089  N9  G  A1521     192.922  94.124 -36.846  1.00 41.61      A16S
ATOM  32090  C4  G  A1521     192.313  93.244 -37.716  1.00 41.61      A16S
ATOM  32091  N3  G  A1521     192.896  92.636 -38.772  1.00 41.61      A16S
ATOM  32092  C2  G  A1521     192.065  91.822 -39.395  1.00 41.61      A16S
ATOM  32093  N2  G  A1521     192.484  91.127 -40.449  1.00 41.61      A16S
ATOM  32094  N1  G  A1521     190.761  91.627 -39.027  1.00 41.61      A16S
ATOM  32095  C6  G  A1521     190.132  92.250 -37.960  1.00 41.61      A16S
ATOM  32096  O6  G  A1521     188.945  92.016 -37.732  1.00 41.61      A16S
ATOM  32097  C5  G  A1521     191.019  93.120 -37.264  1.00 41.61      A16S
ATOM  32098  N7  G  A1521     190.814  93.908 -36.140  1.00 41.61      A16S
ATOM  32099  C8  G  A1521     191.967  94.486 -35.932  1.00 41.61      A16S
ATOM  32100  C2* G  A1521     194.497  95.795 -37.806  1.00 29.95      A16S
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ATOM  32101  O2* G   A1521     195.733  95.728 -38.469  1.00 29.95       A16S
ATOM  32102  C3* G   A1521     194.527  96.923 -36.803  1.00 29.95       A16S
ATOM  32103  O3* G   A1521     195.249  98.014 -37.325  1.00 29.95       A16S
ATOM  32104  P   U   A1522     194.497  99.047 -38.292  1.00 24.03       A16S
ATOM  32105  O1P U   A1522     195.403 100.158 -38.674  1.00 50.96       A16S
ATOM  32106  O2P U   A1522     193.207  99.357 -37.632  1.00 50.96       A16S
ATOM  32107  O5* U   A1522     194.174  98.188 -39.586  1.00 24.03       A16S
ATOM  32108  C5* U   A1522     195.218  97.801 -40.457  1.00 24.03       A16S
ATOM  32109  C4* U   A1522     194.695  96.899 -41.532  1.00 24.03       A16S
ATOM  32110  O4* U   A1522     194.210  95.654 -40.953  1.00 24.03       A16S
ATOM  32111  C1* U   A1522     193.113  95.172 -41.713  1.00 24.03       A16S
ATOM  32112  N1  U   A1522     191.914  95.159 -40.863  1.00 50.96       A16S
ATOM  32113  C6  U   A1522     191.784  95.996 -39.789  1.00 50.96       A16S
ATOM  32114  C2  U   A1522     190.905  94.300 -41.208  1.00 50.96       A16S
ATOM  32115  O2  U   A1522     190.994  93.505 -42.116  1.00 50.96       A16S
ATOM  32116  N3  U   A1522     189.778  94.400 -40.450  1.00 50.96       A16S
ATOM  32117  C4  U   A1522     189.564  95.239 -39.401  1.00 50.96       A16S
ATOM  32118  O4  U   A1522     188.437  95.310 -38.918  1.00 50.96       A16S
ATOM  32119  C5  U   A1522     190.675  96.064 -39.067  1.00 50.96       A16S
ATOM  32120  C2* U   A1522     192.907  96.144 -42.876  1.00 24.03       A16S
ATOM  32121  O2* U   A1522     193.600  95.675 -44.020  1.00 24.03       A16S
ATOM  32122  C3* U   A1522     193.510  97.420 -42.311  1.00 24.03       A16S
ATOM  32123  O3* U   A1522     193.860  98.336 -43.315  1.00 24.03       A16S
ATOM  32124  P   G   A1523     192.736  99.333 -43.854  1.00 27.55       A16S
ATOM  32125  O1P G   A1523     193.321 100.374 -44.747  1.00 41.06       A16S
ATOM  32126  O2P G   A1523     191.974  99.749 -42.656  1.00 41.06       A16S
ATOM  32127  O5* G   A1523     191.818  98.374 -44.735  1.00 27.55       A16S
ATOM  32128  C5* G   A1523     192.392  97.630 -45.814  1.00 27.55       A16S
ATOM  32129  C4* G   A1523     191.331  96.872 -46.563  1.00 27.55       A16S
ATOM  32130  O4* G   A1523     190.848  95.763 -45.774  1.00 27.55       A16S
ATOM  32131  C1* G   A1523     189.488  95.532 -46.064  1.00 27.55       A16S
ATOM  32132  N9  G   A1523     188.728  95.674 -44.825  1.00 41.06       A16S
ATOM  32133  C4  G   A1523     187.486  95.149 -44.559  1.00 41.06       A16S
ATOM  32134  N3  G   A1523     186.755  94.399 -45.393  1.00 41.06       A16S
ATOM  32135  C2  G   A1523     185.616  94.031 -44.850  1.00 41.06       A16S
ATOM  32136  N2  G   A1523     184.776  93.245 -45.531  1.00 41.06       A16S
ATOM  32137  N1  G   A1523     185.215  94.392 -43.601  1.00 41.06       A16S
ATOM  32138  C6  G   A1523     185.942  95.173 -42.728  1.00 41.06       A16S
ATOM  32139  O6  G   A1523     185.475  95.448 -41.621  1.00 41.06       A16S
ATOM  32140  C5  G   A1523     187.182  95.555 -43.286  1.00 41.06       A16S
ATOM  32141  N7  G   A1523     188.211  96.314 -42.751  1.00 41.06       A16S
ATOM  32142  C8  G   A1523     189.105  96.360 -43.699  1.00 41.06       A16S
ATOM  32143  C2* G   A1523     189.072  96.539 -47.139  1.00 27.55       A16S
ATOM  32144  O2* G   A1523     189.203  95.944 -48.415  1.00 27.55       A16S
ATOM  32145  C3* G   A1523     190.091  97.645 -46.945  1.00 27.55       A16S
ATOM  32146  O3* G   A1523     190.286  98.369 -48.141  1.00 27.55       A16S
ATOM  32147  P   C   A1524     189.662  99.839 -48.278  1.00 28.12       A16S
ATOM  32148  O1P C   A1524     190.112 100.423 -49.562  1.00 50.04       A16S
ATOM  32149  O2P C   A1524     189.918 100.574 -47.007  1.00 50.04       A16S
ATOM  32150  O5* C   A1524     188.110  99.553 -48.419  1.00 28.12       A16S
ATOM  32151  C5* C   A1524     187.662  98.777 -49.512  1.00 28.12       A16S
ATOM  32152  C4* C   A1524     186.189  98.529 -49.425  1.00 28.12       A16S
ATOM  32153  O4* C   A1524     185.898  97.506 -48.452  1.00 28.12       A16S
ATOM  32154  C1* C   A1524     184.625  97.747 -47.897  1.00 28.12       A16S
ATOM  32155  N1  C   A1524     184.792  97.904 -46.445  1.00 50.04       A16S
ATOM  32156  C6  C   A1524     186.030  98.089 -45.910  1.00 50.04       A16S
ATOM  32157  C2  C   A1524     183.669  97.859 -45.617  1.00 50.04       A16S
ATOM  32158  O2  C   A1524     182.552  97.713 -46.119  1.00 50.04       A16S
ATOM  32159  N3  C   A1524     183.829  97.984 -44.290  1.00 50.04       A16S
ATOM  32160  C4  C   A1524     185.042  98.161 -43.782  1.00 50.04       A16S
ATOM  32161  N4  C   A1524     185.152  98.281 -42.462  1.00 50.04       A16S
ATOM  32162  C5  C   A1524     186.196  98.223 -44.599  1.00 50.04       A16S
ATOM  32163  C2* C   A1524     184.051  98.990 -48.587  1.00 28.12       A16S
ATOM  32164  O2* C   A1524     183.303  98.619 -49.729  1.00 28.12       A16S
ATOM  32165  C3* C   A1524     185.310  99.699 -49.041  1.00 28.12       A16S
ATOM  32166  O3* C   A1524     185.045 100.550 -50.146  1.00 28.12       A16S
ATOM  32167  P   G   A1525     185.021 102.145 -49.928  1.00 26.95       A16S
ATOM  32168  O1P G   A1525     184.818 102.784 -51.258  1.00 28.24       A16S
ATOM  32169  O2P G   A1525     186.207 102.533 -49.096  1.00 28.24       A16S
ATOM  32170  O5* G   A1525     183.662 102.368 -49.132  1.00 26.95       A16S
ATOM  32171  C5* G   A1525     182.423 102.221 -49.833  1.00 26.95       A16S
ATOM  32172  C4* G   A1525     181.271 102.089 -48.881  1.00 26.95       A16S
ATOM  32173  O4* G   A1525     181.453 100.937 -48.035  1.00 26.95       A16S
ATOM  32174  C1* G   A1525     180.745 101.131 -46.839  1.00 26.95       A16S
ATOM  32175  N9  G   A1525     181.662 101.054 -45.721  1.00 28.24       A16S
ATOM  32176  C4  G   A1525     181.312 100.664 -44.473  1.00 28.24       A16S
ATOM  32177  N3  G   A1525     180.102 100.221 -44.114  1.00 28.24       A16S
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ATOM  32178  C2  G  A1525     180.047  99.937 -42.848  1.00 28.24      A16S
ATOM  32179  N2  G  A1525     178.927  99.436 -42.343  1.00 28.24      A16S
ATOM  32180  N1  G  A1525     181.092 100.113 -41.978  1.00 28.24      A16S
ATOM  32181  C6  G  A1525     182.345 100.592 -42.323  1.00 28.24      A16S
ATOM  32182  O6  G  A1525     183.207 100.750 -41.454  1.00 28.24      A16S
ATOM  32183  C5  G  A1525     182.428 100.856 -43.699  1.00 28.24      A16S
ATOM  32184  N7  G  A1525     183.487 101.310 -44.469  1.00 28.24      A16S
ATOM  32185  C8  G  A1525     182.984 101.406 -45.669  1.00 28.24      A16S
ATOM  32186  C2* G  A1525     180.153 102.533 -46.866  1.00 26.95      A16S
ATOM  32187  O2* G  A1525     178.800 102.445 -47.257  1.00 26.95      A16S
ATOM  32188  C3* G  A1525     181.031 103.210 -47.899  1.00 26.95      A16S
ATOM  32189  O3* G  A1525     180.364 104.293 -48.495  1.00 26.95      A16S
ATOM  32190  P   G  A1526     180.468 105.736 -47.817  1.00 36.13      A16S
ATOM  32191  O1P G  A1526     179.757 106.629 -48.754  1.00 40.13      A16S
ATOM  32192  O2P G  A1526     181.881 106.020 -47.471  1.00 40.13      A16S
ATOM  32193  O5* G  A1526     179.645 105.573 -46.460  1.00 36.13      A16S
ATOM  32194  C5* G  A1526     178.239 105.301 -46.509  1.00 36.13      A16S
ATOM  32195  C4* G  A1526     177.668 105.088 -45.126  1.00 36.13      A16S
ATOM  32196  O4* G  A1526     178.279 103.936 -44.502  1.00 36.13      A16S
ATOM  32197  C1* G  A1526     178.291 104.106 -43.097  1.00 36.13      A16S
ATOM  32198  N9  G  A1526     179.675 104.090 -42.650  1.00 40.13      A16S
ATOM  32199  C4  G  A1526     180.131 103.992 -41.358  1.00 40.13      A16S
ATOM  32200  N3  G  A1526     179.374 103.937 -40.246  1.00 40.13      A16S
ATOM  32201  C2  G  A1526     180.112 103.839 -39.155  1.00 40.13      A16S
ATOM  32202  N2  G  A1526     179.536 103.793 -37.955  1.00 40.13      A16S
ATOM  32203  N1  G  A1526     181.470 103.786 -39.163  1.00 40.13      A16S
ATOM  32204  C6  G  A1526     182.262 103.844 -40.298  1.00 40.13      A16S
ATOM  32205  O6  G  A1526     183.483 103.797 -40.198  1.00 40.13      A16S
ATOM  32206  C5  G  A1526     181.497 103.961 -41.459  1.00 40.13      A16S
ATOM  32207  N7  G  A1526     181.897 104.067 -42.777  1.00 40.13      A16S
ATOM  32208  C8  G  A1526     180.784 104.148 -43.445  1.00 40.13      A16S
ATOM  32209  C2* G  A1526     177.601 105.430 -42.799  1.00 36.13      A16S
ATOM  32210  O2* G  A1526     176.221 105.171 -42.618  1.00 36.13      A16S
ATOM  32211  C3* G  A1526     177.826 106.189 -44.094  1.00 36.13      A16S
ATOM  32212  O3* G  A1526     176.865 107.226 -44.230  1.00 36.13      A16S
ATOM  32213  P   C  A1527     177.176 108.670 -43.599  1.00 22.43      A16S
ATOM  32214  O1P C  A1527     176.072 109.538 -44.082  1.00 23.94      A16S
ATOM  32215  O2P C  A1527     178.582 109.064 -43.864  1.00 23.94      A16S
ATOM  32216  O5* C  A1527     177.124 108.425 -42.024  1.00 22.43      A16S
ATOM  32217  C5* C  A1527     175.884 108.157 -41.354  1.00 22.43      A16S
ATOM  32218  C4* C  A1527     176.065 108.264 -39.864  1.00 22.43      A16S
ATOM  32219  O4* C  A1527     176.852 107.144 -39.406  1.00 22.43      A16S
ATOM  32220  C1* C  A1527     177.756 107.576 -38.403  1.00 22.43      A16S
ATOM  32221  N1  C  A1527     179.129 107.398 -38.919  1.00 23.94      A16S
ATOM  32222  C6  C  A1527     179.391 107.456 -40.262  1.00 23.94      A16S
ATOM  32223  C2  C  A1527     180.161 107.161 -38.011  1.00 23.94      A16S
ATOM  32224  O2  C  A1527     179.904 107.138 -36.800  1.00 23.94      A16S
ATOM  32225  N3  C  A1527     181.410 106.970 -38.474  1.00 23.94      A16S
ATOM  32226  C4  C  A1527     181.650 107.015 -39.778  1.00 23.94      A16S
ATOM  32227  N4  C  A1527     182.886 106.810 -40.176  1.00 23.94      A16S
ATOM  32228  C5  C  A1527     180.626 107.272 -40.727  1.00 23.94      A16S
ATOM  32229  C2* C  A1527     177.429 109.032 -38.075  1.00 22.43      A16S
ATOM  32230  O2* C  A1527     176.511 109.036 -37.008  1.00 22.43      A16S
ATOM  32231  C3* C  A1527     176.809 109.502 -39.382  1.00 22.43      A16S
ATOM  32232  O3* C  A1527     175.910 110.578 -39.188  1.00 22.43      A16S
ATOM  32233  P   U  A1528     176.461 112.081 -39.144  1.00 30.54      A16S
ATOM  32234  O1P U  A1528     175.263 112.947 -39.178  1.00 50.34      A16S
ATOM  32235  O2P U  A1528     177.504 112.244 -40.185  1.00 50.34      A16S
ATOM  32236  O5* U  A1528     177.137 112.196 -37.707  1.00 30.54      A16S
ATOM  32237  C5* U  A1528     176.418 111.851 -36.506  1.00 30.54      A16S
ATOM  32238  C4* U  A1528     177.308 112.047 -35.302  1.00 30.54      A16S
ATOM  32239  O4* U  A1528     178.449 111.160 -35.407  1.00 30.54      A16S
ATOM  32240  C1* U  A1528     179.649 111.905 -35.406  1.00 30.54      A16S
ATOM  32241  N1  U  A1528     180.571 111.281 -36.365  1.00 50.34      A16S
ATOM  32242  C6  U  A1528     180.257 111.213 -37.702  1.00 50.34      A16S
ATOM  32243  C2  U  A1528     181.757 110.755 -35.885  1.00 50.34      A16S
ATOM  32244  O2  U  A1528     182.082 110.788 -34.705  1.00 50.34      A16S
ATOM  32245  N3  U  A1528     182.549 110.176 -36.840  1.00 50.34      A16S
ATOM  32246  C4  U  A1528     182.279 110.066 -38.190  1.00 50.34      A16S
ATOM  32247  O4  U  A1528     183.061 109.454 -38.916  1.00 50.34      A16S
ATOM  32248  C5  U  A1528     181.045 110.641 -38.599  1.00 50.34      A16S
ATOM  32249  C2* U  A1528     179.259 113.327 -35.789  1.00 30.54      A16S
ATOM  32250  O2* U  A1528     180.206 114.248 -35.300  1.00 30.54      A16S
ATOM  32251  C3* U  A1528     177.881 113.448 -35.153  1.00 30.54      A16S
ATOM  32252  O3* U  A1528     178.044 113.697 -33.768  1.00 30.54      A16S
ATOM  32253  P   G  A1529     177.210 114.862 -33.053  1.00 35.24      A16S
ATOM  32254  O1P G  A1529     175.784 114.702 -33.419  1.00 22.69      A16S
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ATOM  32255  O2P G   A1529     177.885 116.168 -33.280  1.00 22.69      A16S
ATOM  32256  O5* G   A1529     177.345 114.429 -31.537  1.00 35.24      A16S
ATOM  32257  C5* G   A1529     176.877 113.142 -31.131  1.00 35.24      A16S
ATOM  32258  C4* G   A1529     177.979 112.373 -30.471  1.00 35.24      A16S
ATOM  32259  O4* G   A1529     177.435 111.105 -30.030  1.00 35.24      A16S
ATOM  32260  C1* G   A1529     178.198 110.059 -30.570  1.00 35.24      A16S
ATOM  32261  N9  G   A1529     177.347 108.886 -30.763  1.00 22.69      A16S
ATOM  32262  C4  G   A1529     176.282 108.753 -31.622  1.00 22.69      A16S
ATOM  32263  N3  G   A1529     175.804 109.705 -32.435  1.00 22.69      A16S
ATOM  32264  C2  G   A1529     174.795 109.268 -33.158  1.00 22.69      A16S
ATOM  32265  N2  G   A1529     174.196 110.103 -34.001  1.00 22.69      A16S
ATOM  32266  N1  G   A1529     174.299 107.991 -33.105  1.00 22.69      A16S
ATOM  32267  C6  G   A1529     174.781 106.989 -32.283  1.00 22.69      A16S
ATOM  32268  O6  G   A1529     174.285 105.862 -32.330  1.00 22.69      A16S
ATOM  32269  C5  G   A1529     175.853 107.450 -31.478  1.00 22.69      A16S
ATOM  32270  N7  G   A1529     176.609 106.787 -30.523  1.00 22.69      A16S
ATOM  32271  C8  G   A1529     177.477 107.677 -30.125  1.00 22.69      A16S
ATOM  32272  C2* G   A1529     178.855 110.632 -31.826  1.00 35.24      A16S
ATOM  32273  O2* G   A1529     180.012 109.883 -32.156  1.00 35.24      A16S
ATOM  32274  C3* G   A1529     179.165 112.062 -31.377  1.00 35.24      A16S
ATOM  32275  O3* G   A1529     180.392 112.005 -30.616  1.00 35.24      A16S
ATOM  32276  P   G   A1530     181.131 113.348 -30.120  1.00 58.38      A16S
ATOM  32277  O1P G   A1530     182.448 112.928 -29.565  1.00 77.33      A16S
ATOM  32278  O2P G   A1530     180.198 114.119 -29.266  1.00 77.33      A16S
ATOM  32279  O5* G   A1530     181.373 114.195 -31.441  1.00 58.38      A16S
ATOM  32280  C5* G   A1530     182.079 113.635 -32.533  1.00 58.38      A16S
ATOM  32281  C4* G   A1530     183.570 113.723 -32.303  1.00 58.38      A16S
ATOM  32282  O4* G   A1530     184.170 112.775 -33.203  1.00 58.38      A16S
ATOM  32283  C1* G   A1530     185.386 113.287 -33.691  1.00 58.38      A16S
ATOM  32284  N9  G   A1530     185.324 113.306 -35.145  1.00 77.33      A16S
ATOM  32285  C4  G   A1530     186.395 113.162 -35.972  1.00 77.33      A16S
ATOM  32286  N3  G   A1530     187.673 113.027 -35.575  1.00 77.33      A16S
ATOM  32287  C2  G   A1530     188.490 112.902 -36.589  1.00 77.33      A16S
ATOM  32288  N2  G   A1530     189.800 112.777 -36.358  1.00 77.33      A16S
ATOM  32289  N1  G   A1530     188.084 112.893 -37.903  1.00 77.33      A16S
ATOM  32290  C6  G   A1530     186.766 113.022 -38.337  1.00 77.33      A16S
ATOM  32291  O6  G   A1530     186.503 112.988 -39.547  1.00 77.33      A16S
ATOM  32292  C5  G   A1530     185.879 113.175 -37.248  1.00 77.33      A16S
ATOM  32293  N7  G   A1530     184.501 113.350 -37.221  1.00 77.33      A16S
ATOM  32294  C8  G   A1530     184.216 113.431 -35.952  1.00 77.33      A16S
ATOM  32295  C2* G   A1530     185.665 114.627 -33.022  1.00 58.38      A16S
ATOM  32296  O2* G   A1530     186.516 114.380 -31.923  1.00 58.38      A16S
ATOM  32297  C3* G   A1530     184.271 115.056 -32.584  1.00 58.38      A16S
ATOM  32298  O3* G   A1530     184.376 115.891 -31.421  1.00 58.38      A16S
ATOM  32299  P   A   A1531     184.865 117.422 -31.576  1.00 57.97      A16S
ATOM  32300  O1P A   A1531     184.113 118.216 -30.571  1.00 91.50      A16S
ATOM  32301  O2P A   A1531     184.795 117.805 -33.016  1.00 91.50      A16S
ATOM  32302  O5* A   A1531     186.411 117.393 -31.169  1.00 57.97      A16S
ATOM  32303  C5* A   A1531     186.836 117.466 -29.784  1.00 57.97      A16S
ATOM  32304  C4* A   A1531     188.344 117.650 -29.687  1.00 57.97      A16S
ATOM  32305  O4* A   A1531     189.008 116.498 -30.268  1.00 57.97      A16S
ATOM  32306  C1* A   A1531     190.157 116.913 -30.985  1.00 57.97      A16S
ATOM  32307  N9  A   A1531     189.881 116.761 -32.416  1.00 91.50      A16S
ATOM  32308  C4  A   A1531     190.805 116.696 -33.431  1.00 91.50      A16S
ATOM  32309  N3  A   A1531     192.143 116.731 -33.322  1.00 91.50      A16S
ATOM  32310  C2  A   A1531     192.712 116.657 -34.520  1.00 91.50      A16S
ATOM  32311  N1  A   A1531     192.138 116.558 -35.723  1.00 91.50      A16S
ATOM  32312  C6  A   A1531     190.789 116.524 -35.796  1.00 91.50      A16S
ATOM  32313  N6  A   A1531     190.208 116.421 -36.995  1.00 91.50      A16S
ATOM  32314  C5  A   A1531     190.073 116.598 -34.599  1.00 91.50      A16S
ATOM  32315  N7  A   A1531     188.714 116.589 -34.331  1.00 91.50      A16S
ATOM  32316  C8  A   A1531     188.652 116.684 -33.028  1.00 91.50      A16S
ATOM  32317  C2* A   A1531     190.373 118.387 -30.666  1.00 57.97      A16S
ATOM  32318  O2* A   A1531     191.188 118.495 -29.521  1.00 57.97      A16S
ATOM  32319  C3* A   A1531     188.949 118.852 -30.406  1.00 57.97      A16S
ATOM  32320  O3* A   A1531     188.937 120.048 -29.628  1.00 57.97      A16S
ATOM  32321  P   U   A1532     189.132 121.470 -30.357  1.00 47.60      A16S
ATOM  32322  O1P U   A1532     189.471 122.474 -29.317  1.00 70.12      A16S
ATOM  32323  O2P U   A1532     187.958 121.697 -31.230  1.00 70.12      A16S
ATOM  32324  O5* U   A1532     190.406 121.251 -31.290  1.00 47.60      A16S
ATOM  32325  C5* U   A1532     191.745 121.427 -30.773  1.00 47.60      A16S
ATOM  32326  C4* U   A1532     192.692 121.835 -31.882  1.00 47.60      A16S
ATOM  32327  O4* U   A1532     192.802 120.733 -32.812  1.00 47.60      A16S
ATOM  32328  C1* U   A1532     192.916 121.241 -34.124  1.00 47.60      A16S
ATOM  32329  N1  U   A1532     191.815 120.711 -34.933  1.00 70.12      A16S
ATOM  32330  C6  U   A1532     190.504 120.797 -34.524  1.00 70.12      A16S
ATOM  32331  C2  U   A1532     192.148 120.141 -36.140  1.00 70.12      A16S
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ATOM  32332  O2  U   A1532     193.306 120.023 -36.521  1.00 70.12      A16S
ATOM  32333  N3  U   A1532     191.084 119.715 -36.889  1.00 70.12      A16S
ATOM  32334  C4  U   A1532     189.756 119.793 -36.556  1.00 70.12      A16S
ATOM  32335  O4  U   A1532     188.916 119.424 -37.369  1.00 70.12      A16S
ATOM  32336  C5  U   A1532     189.491 120.371 -35.275  1.00 70.12      A16S
ATOM  32337  C2* U   A1532     192.904 122.770 -34.076  1.00 47.60      A16S
ATOM  32338  O2* U   A1532     194.212 123.274 -34.191  1.00 47.60      A16S
ATOM  32339  C3* U   A1532     192.261 123.040 -32.723  1.00 47.60      A16S
ATOM  32340  O3* U   A1532     192.706 124.293 -32.192  1.00 47.60      A16S
ATOM  32341  P   C   A1533     191.904 125.634 -32.550  1.00100.00      A16S
ATOM  32342  O1P C   A1533     190.459 125.293 -32.509  1.00201.26      A16S
ATOM  32343  O2P C   A1533     192.412 126.744 -31.715  1.00201.26      A16S
ATOM  32344  O5* C   A1533     192.293 125.947 -34.061  1.00100.00      A16S
ATOM  32345  C5* C   A1533     191.321 126.554 -34.937  1.00100.00      A16S
ATOM  32346  C4* C   A1533     191.973 127.168 -36.161  1.00100.00      A16S
ATOM  32347  O4* C   A1533     192.630 128.423 -35.846  1.00100.00      A16S
ATOM  32348  C1* C   A1533     193.742 128.599 -36.705  1.00100.00      A16S
ATOM  32349  N1  C   A1533     194.964 128.690 -35.880  1.00201.26      A16S
ATOM  32350  C6  C   A1533     195.221 127.768 -34.900  1.00201.26      A16S
ATOM  32351  C2  C   A1533     195.869 129.737 -36.120  1.00201.26      A16S
ATOM  32352  O2  C   A1533     195.616 130.567 -37.011  1.00201.26      A16S
ATOM  32353  N3  C   A1533     196.996 129.816 -35.376  1.00201.26      A16S
ATOM  32354  C4  C   A1533     197.237 128.907 -34.428  1.00201.26      A16S
ATOM  32355  N4  C   A1533     198.365 129.023 -33.726  1.00201.26      A16S
ATOM  32356  C5  C   A1533     196.333 127.838 -34.160  1.00201.26      A16S
ATOM  32357  C2* C   A1533     193.771 127.420 -37.683  1.00100.00      A16S
ATOM  32358  O2* C   A1533     193.114 127.830 -38.870  1.00100.00      A16S
ATOM  32359  C3* C   A1533     193.014 126.345 -36.902  1.00100.00      A16S
ATOM  32360  O3* C   A1533     192.379 125.385 -37.742  1.00100.00      A16S
ATOM  32361  P   A   A1534     193.160 124.047 -38.160  1.00201.26      A16S
ATOM  32362  O1P A   A1534     192.143 123.120 -38.724  1.00201.26      A16S
ATOM  32363  O2P A   A1534     193.993 123.609 -37.010  1.00201.26      A16S
ATOM  32364  O5* A   A1534     194.126 124.528 -39.334  1.00201.26      A16S
ATOM  32365  C5* A   A1534     193.647 125.424 -40.363  1.00201.26      A16S
ATOM  32366  C4* A   A1534     194.802 126.147 -41.026  1.00201.26      A16S
ATOM  32367  O4* A   A1534     195.619 126.800 -40.018  1.00201.26      A16S
ATOM  32368  C1* A   A1534     196.976 126.814 -40.440  1.00201.26      A16S
ATOM  32369  N9  A   A1534     197.790 126.124 -39.435  1.00201.26      A16S
ATOM  32370  C4  A   A1534     199.159 126.201 -39.310  1.00201.26      A16S
ATOM  32371  N3  A   A1534     200.010 126.918 -40.068  1.00201.26      A16S
ATOM  32372  C2  A   A1534     201.265 126.746 -39.656  1.00201.26      A16S
ATOM  32373  N1  A   A1534     201.732 125.997 -38.647  1.00201.26      A16S
ATOM  32374  C6  A   A1534     200.851 125.290 -37.904  1.00201.26      A16S
ATOM  32375  N6  A   A1534     201.315 124.546 -36.897  1.00201.26      A16S
ATOM  32376  C5  A   A1534     199.487 125.385 -38.241  1.00201.26      A16S
ATOM  32377  N7  A   A1534     198.349 124.803 -37.698  1.00201.26      A16S
ATOM  32378  C8  A   A1534     197.372 125.272 -38.437  1.00201.26      A16S
ATOM  32379  C2* A   A1534     197.047 126.147 -41.817  1.00201.26      A16S
ATOM  32380  O2* A   A1534     197.014 127.153 -42.811  1.00201.26      A16S
ATOM  32381  C3* A   A1534     195.789 125.288 -41.800  1.00201.26      A16S
ATOM  32382  O3* A   A1534     195.342 124.676 -43.018  1.00201.26      A16S
TER   32382       A   A1534                                              A16S
ATOM  32383  O5* UNK X    1     208.522 111.150 -34.312  1.00201.26      XMES
ATOM  32384  C5* UNK X    1     207.527 111.101 -35.342  1.00201.26      XMES
ATOM  32385  C4* UNK X    1     207.317 109.714 -35.912  1.00201.26      XMES
ATOM  32386  O4* UNK X    1     208.566 109.219 -36.459  1.00201.26      XMES
ATOM  32387  C1* UNK X    1     208.653 107.817 -36.261  1.00201.26      XMES
ATOM  32388  N1  UNK X    1     209.895 107.514 -35.519  1.00148.01      XMES
ATOM  32389  C6  UNK X    1     210.524 108.476 -34.774  1.00148.01      XMES
ATOM  32390  C2  UNK X    1     210.426 106.214 -35.586  1.00148.01      XMES
ATOM  32391  O2  UNK X    1     209.843 105.355 -36.270  1.00148.01      XMES
ATOM  32392  N3  UNK X    1     211.557 105.928 -34.901  1.00148.01      XMES
ATOM  32393  C4  UNK X    1     212.156 106.875 -34.172  1.00148.01      XMES
ATOM  32394  N4  UNK X    1     213.264 106.543 -33.505  1.00148.01      XMES
ATOM  32395  C5  UNK X    1     211.644 108.203 -34.093  1.00148.01      XMES
ATOM  32396  C2* UNK X    1     207.372 107.352 -35.558  1.00201.26      XMES
ATOM  32397  O2* UNK X    1     206.482 106.805 -36.513  1.00201.26      XMES
ATOM  32398  C3* UNK X    1     206.867 108.647 -34.922  1.00201.26      XMES
ATOM  32399  O3* UNK X    1     205.446 108.654 -34.768  1.00201.26      XMES
ATOM  32400  P   UNK X    2     204.788 108.290 -33.343  1.00201.26      XMES
ATOM  32401  O1P UNK X    2     203.314 108.372 -33.516  1.00201.26      XMES
ATOM  32402  O2P UNK X    2     205.446 109.117 -32.299  1.00201.26      XMES
ATOM  32403  O5* UNK X    2     205.176 106.759 -33.117  1.00201.26      XMES
ATOM  32404  C5* UNK X    2     204.537 105.711 -33.884  1.00201.26      XMES
ATOM  32405  C4* UNK X    2     204.981 104.344 -33.404  1.00201.26      XMES
ATOM  32406  O4* UNK X    2     206.376 104.125 -33.745  1.00201.26      XMES
ATOM  32407  C1* UNK X    2     207.003 103.352 -32.729  1.00201.26      XMES
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ATOM  32408  N1  UNK X   2     208.104 104.140 -32.142  1.00201.26      XMES
ATOM  32409  C6  UNK X   2     208.372 105.428 -32.563  1.00201.26      XMES
ATOM  32410  C2  UNK X   2     208.869 103.549 -31.137  1.00201.26      XMES
ATOM  32411  O2  UNK X   2     208.674 102.413 -30.728  1.00201.26      XMES
ATOM  32412  N3  UNK X   2     209.869 104.343 -30.628  1.00201.26      XMES
ATOM  32413  C4  UNK X   2     210.182 105.634 -31.004  1.00201.26      XMES
ATOM  32414  O4  UNK X   2     211.111 106.220 -30.442  1.00201.26      XMES
ATOM  32415  C5  UNK X   2     209.355 106.172 -32.042  1.00201.26      XMES
ATOM  32416  C2* UNK X   2     205.933 102.990 -31.696  1.00201.26      XMES
ATOM  32417  O2* UNK X   2     205.421 101.694 -31.953  1.00201.26      XMES
ATOM  32418  C3* UNK X   2     204.915 104.105 -31.904  1.00201.26      XMES
ATOM  32419  O3* UNK X   2     203.621 103.745 -31.444  1.00201.26      XMES
ATOM  32420  P   UNK X   3     202.988 104.526 -30.189  1.00201.26      XMES
ATOM  32421  O1P UNK X   3     201.955 103.638 -29.587  1.00153.87      XMES
ATOM  32422  O2P UNK X   3     202.609 105.879 -30.659  1.00153.87      XMES
ATOM  32423  O5* UNK X   3     204.207 104.712 -29.170  1.00201.26      XMES
ATOM  32424  C5* UNK X   3     204.874 103.576 -28.568  1.00201.26      XMES
ATOM  32425  C4* UNK X   3     206.002 104.032 -27.654  1.00201.26      XMES
ATOM  32426  O4* UNK X   3     207.095 104.592 -28.423  1.00201.26      XMES
ATOM  32427  C1* UNK X   3     207.756 105.582 -27.653  1.00201.26      XMES
ATOM  32428  N1  UNK X   3     207.890 106.805 -28.461  1.00153.87      XMES
ATOM  32429  C6  UNK X   3     206.883 107.221 -29.305  1.00153.87      XMES
ATOM  32430  C2  UNK X   3     209.078 107.523 -28.361  1.00153.87      XMES
ATOM  32431  O2  UNK X   3     209.986 107.216 -27.601  1.00153.87      XMES
ATOM  32432  N3  UNK X   3     209.161 108.618 -29.185  1.00153.87      XMES
ATOM  32433  C4  UNK X   3     208.201 109.070 -30.070  1.00153.87      XMES
ATOM  32434  O4  UNK X   3     208.454 110.030 -30.801  1.00153.87      XMES
ATOM  32435  C5  UNK X   3     206.996 108.297 -30.087  1.00153.87      XMES
ATOM  32436  C2* UNK X   3     207.015 105.742 -26.323  1.00201.26      XMES
ATOM  32437  O2* UNK X   3     207.738 105.068 -25.313  1.00201.26      XMES
ATOM  32438  C3* UNK X   3     205.661 105.100 -26.625  1.00201.26      XMES
ATOM  32439  O3* UNK X   3     205.113 104.491 -25.463  1.00201.26      XMES
ATOM  32440  P   U   X   4     203.641 104.894 -24.966  1.00 67.86      XMES
ATOM  32441  O1P U   X   4     202.748 104.848 -26.136  1.00 49.52      XMES
ATOM  32442  O2P U   X   4     203.753 106.141 -24.192  1.00 49.52      XMES
ATOM  32443  O5* U   X   4     203.247 103.704 -23.981  1.00 67.86      XMES
ATOM  32444  C5* U   X   4     202.981 102.389 -24.502  1.00 67.86      XMES
ATOM  32445  C4* U   X   4     203.215 101.324 -23.452  1.00 67.86      XMES
ATOM  32446  O4* U   X   4     204.632 101.153 -23.181  1.00 67.86      XMES
ATOM  32447  C1* U   X   4     204.797 100.624 -21.872  1.00 67.86      XMES
ATOM  32448  N1  U   X   4     205.748 101.447 -21.099  1.00 49.52      XMES
ATOM  32449  C6  U   X   4     206.113 102.711 -21.501  1.00 49.52      XMES
ATOM  32450  C2  U   X   4     206.271 100.896 -19.913  1.00 49.52      XMES
ATOM  32451  O2  U   X   4     205.983  99.776 -19.496  1.00 49.52      XMES
ATOM  32452  N3  U   X   4     207.136 101.709 -19.229  1.00 49.52      XMES
ATOM  32453  C4  U   X   4     207.526 102.975 -19.575  1.00 49.52      XMES
ATOM  32454  O4  U   X   4     208.263 103.595 -18.815  1.00 49.52      XMES
ATOM  32455  C5  U   X   4     206.959 103.472 -20.798  1.00 49.52      XMES
ATOM  32456  C2* U   X   4     203.412 100.542 -21.227  1.00 67.86      XMES
ATOM  32457  O2* U   X   4     202.954  99.204 -21.327  1.00 67.86      XMES
ATOM  32458  C3* U   X   4     202.608 101.525 -22.074  1.00 67.86      XMES
ATOM  32459  O3* U   X   4     201.213 101.243 -22.034  1.00 67.86      XMES
ATOM  32460  P   C   X   5     200.287 101.970 -20.934  1.00 59.88      XMES
ATOM  32461  O1P C   X   5     198.890 101.481 -21.135  1.00 58.88      XMES
ATOM  32462  O2P C   X   5     200.574 103.439 -20.984  1.00 58.88      XMES
ATOM  32463  O5* C   X   5     200.813 101.373 -19.550  1.00 59.88      XMES
ATOM  32464  C5* C   X   5     200.727  99.954 -19.289  1.00 59.88      XMES
ATOM  32465  C4* C   X   5     201.470  99.589 -18.022  1.00 59.88      XMES
ATOM  32466  O4* C   X   5     202.872  99.933 -18.150  1.00 59.88      XMES
ATOM  32467  C1* C   X   5     203.389 100.285 -16.879  1.00 59.88      XMES
ATOM  32468  N1  C   X   5     204.002 101.634 -16.943  1.00 58.88      XMES
ATOM  32469  C6  C   X   5     203.753 102.485 -17.986  1.00 58.88      XMES
ATOM  32470  C2  C   X   5     204.889 102.021 -15.914  1.00 58.88      XMES
ATOM  32471  O2  C   X   5     205.038 101.273 -14.928  1.00 58.88      XMES
ATOM  32472  N3  C   X   5     205.546 103.201 -16.011  1.00 58.88      XMES
ATOM  32473  C4  C   X   5     205.329 103.998 -17.057  1.00 58.88      XMES
ATOM  32474  N4  C   X   5     206.033 105.131 -17.129  1.00 58.88      XMES
ATOM  32475  C5  C   X   5     204.387 103.665 -18.082  1.00 58.88      XMES
ATOM  32476  C2* C   X   5     202.264 100.136 -15.859  1.00 59.88      XMES
ATOM  32477  O2* C   X   5     202.369  98.845 -15.287  1.00 59.88      XMES
ATOM  32478  C3* C   X   5     201.028 100.270 -16.738  1.00 59.88      XMES
ATOM  32479  O3* C   X   5     199.913  99.612 -16.160  1.00 59.88      XMES
ATOM  32480  P   U   X   6     198.933 100.420 -15.180  1.00 75.25      XMES
ATOM  32481  O1P U   X   6     197.891  99.457 -14.758  1.00 67.65      XMES
ATOM  32482  O2P U   X   6     198.544 101.704 -15.814  1.00 67.65      XMES
ATOM  32483  O5* U   X   6     199.827 100.747 -13.906  1.00 75.25      XMES
ATOM  32484  C5* U   X   6     199.915  99.822 -12.805  1.00 75.25      XMES
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ATOM  32485  C4* U   X   6     200.587 100.478 -11.622  1.00 75.25       XMES
ATOM  32486  O4* U   X   6     201.884 100.975 -12.032  1.00 75.25       XMES
ATOM  32487  C1* U   X   6     202.222 102.106 -11.249  1.00 75.25       XMES
ATOM  32488  N1  U   X   6     202.648 103.199 -12.142  1.00 67.65       XMES
ATOM  32489  C6  U   X   6     202.005 103.464 -13.329  1.00 67.65       XMES
ATOM  32490  C2  U   X   6     203.742 103.971 -11.740  1.00 67.65       XMES
ATOM  32491  O2  U   X   6     204.359 103.774 -10.696  1.00 67.65       XMES
ATOM  32492  N3  U   X   6     204.088 104.981 -12.600  1.00 67.65       XMES
ATOM  32493  C4  U   X   6     203.482 105.298 -13.782  1.00 67.65       XMES
ATOM  32494  O4  U   X   6     203.883 106.273 -14.408  1.00 67.65       XMES
ATOM  32495  C5  U   X   6     202.375 104.459 -14.140  1.00 67.65       XMES
ATOM  32496  C2* U   X   6     201.038 102.426 -10.324  1.00 75.25       XMES
ATOM  32497  O2* U   X   6     201.266 101.882  -9.035  1.00 75.25       XMES
ATOM  32498  C3* U   X   6     199.901 101.701 -11.024  1.00 75.25       XMES
ATOM  32499  O3* U   X   6     198.693 101.533 -10.259  1.00 75.25       XMES
TER   32499       U   X   6                                              XMES
ATOM  32500  CB  VAL B   7     151.303 171.767 -21.576  1.00170.01       BS2
ATOM  32501  CG1 VAL B   7     152.284 172.794 -21.023  1.00170.01       BS2
ATOM  32502  CG2 VAL B   7     149.969 171.872 -20.842  1.00170.01       BS2
ATOM  32503  C   VAL B   7     150.375 170.782 -23.693  1.00152.47       BS2
ATOM  32504  O   VAL B   7     149.680 170.058 -22.978  1.00152.47       BS2
ATOM  32505  N   VAL B   7     150.354 173.262 -23.358  1.00152.47       BS2
ATOM  32506  CA  VAL B   7     151.098 171.994 -23.102  1.00152.47       BS2
ATOM  32507  N   LYS B   8     150.530 170.566 -25.000  1.00101.44       BS2
ATOM  32508  CA  LYS B   8     149.883 169.432 -25.667  1.00101.44       BS2
ATOM  32509  CB  LYS B   8     148.347 169.542 -25.560  1.00201.26       BS2
ATOM  32510  CG  LYS B   8     147.793 170.877 -25.052  1.00201.26       BS2
ATOM  32511  CD  LYS B   8     148.287 172.062 -25.864  1.00201.26       BS2
ATOM  32512  CE  LYS B   8     147.938 173.372 -25.178  1.00201.26       BS2
ATOM  32513  NZ  LYS B   8     148.609 174.529 -25.829  1.00201.26       BS2
ATOM  32514  C   LYS B   8     150.249 169.183 -27.138  1.00101.44       BS2
ATOM  32515  O   LYS B   8     151.113 168.356 -27.446  1.00101.44       BS2
ATOM  32516  N   GLU B   9     149.568 169.900 -28.032  1.00 98.89       BS2
ATOM  32517  CA  GLU B   9     149.731 169.778 -29.485  1.00 98.89       BS2
ATOM  32518  CB  GLU B   9     151.192 169.887 -29.933  1.00 99.81       BS2
ATOM  32519  CG  GLU B   9     151.349 169.770 -31.459  1.00 99.81       BS2
ATOM  32520  CD  GLU B   9     152.748 169.359 -31.893  1.00 99.81       BS2
ATOM  32521  OE1 GLU B   9     153.011 169.320 -33.114  1.00 99.81       BS2
ATOM  32522  OE2 GLU B   9     153.585 169.068 -31.013  1.00 99.81       BS2
ATOM  32523  C   GLU B   9     149.201 168.438 -29.947  1.00 98.89       BS2
ATOM  32524  O   GLU B   9     149.113 167.491 -29.167  1.00 98.89       BS2
ATOM  32525  N   LEU B  10     148.850 168.368 -31.224  1.00 91.58       BS2
ATOM  32526  CA  LEU B  10     148.338 167.141 -31.815  1.00 91.58       BS2
ATOM  32527  CB  LEU B  10     146.815 167.214 -31.976  1.00201.26       BS2
ATOM  32528  CG  LEU B  10     146.075 165.925 -32.362  1.00201.26       BS2
ATOM  32529  CD1 LEU B  10     144.579 166.141 -32.214  1.00201.26       BS2
ATOM  32530  CD2 LEU B  10     146.416 165.517 -33.785  1.00201.26       BS2
ATOM  32531  C   LEU B  10     149.005 167.008 -33.168  1.00 91.58       BS2
ATOM  32532  O   LEU B  10     149.356 165.912 -33.596  1.00 91.58       BS2
ATOM  32533  N   LEU B  11     149.166 168.139 -33.844  1.00 84.92       BS2
ATOM  32534  CA  LEU B  11     149.821 168.137 -35.135  1.00 84.92       BS2
ATOM  32535  CB  LEU B  11     149.612 169.467 -35.853  1.00154.93       BS2
ATOM  32536  CG  LEU B  11     148.162 169.763 -36.231  1.00154.93       BS2
ATOM  32537  CD1 LEU B  11     148.112 171.046 -37.043  1.00154.93       BS2
ATOM  32538  CD2 LEU B  11     147.586 168.602 -37.031  1.00154.93       BS2
ATOM  32539  C   LEU B  11     151.286 167.935 -34.824  1.00 84.92       BS2
ATOM  32540  O   LEU B  11     152.132 168.775 -35.143  1.00 84.92       BS2
ATOM  32541  N   GLU B  12     151.574 166.809 -34.179  1.00112.65       BS2
ATOM  32542  CA  GLU B  12     152.934 166.490 -33.812  1.00112.65       BS2
ATOM  32543  CB  GLU B  12     152.993 165.677 -32.521  1.00 73.97       BS2
ATOM  32544  CG  GLU B  12     154.380 165.763 -31.931  1.00 73.97       BS2
ATOM  32545  CD  GLU B  12     155.296 166.680 -32.775  1.00 73.97       BS2
ATOM  32546  OE1 GLU B  12     156.096 166.149 -33.578  1.00 73.97       BS2
ATOM  32547  OE2 GLU B  12     155.192 167.928 -32.659  1.00 73.97       BS2
ATOM  32548  C   GLU B  12     153.718 165.759 -34.890  1.00112.65       BS2
ATOM  32549  O   GLU B  12     154.451 164.811 -34.606  1.00112.65       BS2
ATOM  32550  N   ALA B  13     153.562 166.194 -36.131  1.00 86.10       BS2
ATOM  32551  CA  ALA B  13     154.314 165.591 -37.212  1.00 86.10       BS2
ATOM  32552  CB  ALA B  13     153.627 165.839 -38.540  1.00 75.06       BS2
ATOM  32553  C   ALA B  13     155.628 166.346 -37.131  1.00 86.10       BS2
ATOM  32554  O   ALA B  13     156.523 166.179 -37.961  1.00 86.10       BS2
ATOM  32555  N   GLY B  14     155.717 167.189 -36.105  1.00112.70       BS2
ATOM  32556  CA  GLY B  14     156.908 167.978 -35.876  1.00112.70       BS2
ATOM  32557  C   GLY B  14     158.136 167.102 -35.757  1.00112.70       BS2
ATOM  32558  O   GLY B  14     159.197 167.474 -36.252  1.00112.70       BS2
ATOM  32559  N   VAL B  15     158.011 165.947 -35.101  1.00 92.74       BS2
ATOM  32560  CA  VAL B  15     159.154 165.042 -34.950  1.00 92.74       BS2
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ATOM  32561  CB  VAL B  15     160.003 165.397 -33.712  1.00112.49      BS2
ATOM  32562  CG1 VAL B  15     161.464 165.083 -33.998  1.00112.49      BS2
ATOM  32563  CG2 VAL B  15     159.812 166.854 -33.330  1.00112.49      BS2
ATOM  32564  C   VAL B  15     158.837 163.541 -34.865  1.00 92.74      BS2
ATOM  32565  O   VAL B  15     159.085 162.802 -35.814  1.00 92.74      BS2
ATOM  32566  N   HIS B  16     158.309 163.106 -33.720  1.00113.91      BS2
ATOM  32567  CA  HIS B  16     157.970 161.702 -33.446  1.00113.91      BS2
ATOM  32568  CB  HIS B  16     157.005 161.628 -32.262  1.00201.22      BS2
ATOM  32569  CG  HIS B  16     157.407 162.493 -31.112  1.00201.22      BS2
ATOM  32570  CD2 HIS B  16     157.933 162.184 -29.904  1.00201.22      BS2
ATOM  32571  ND1 HIS B  16     157.340 163.869 -31.160  1.00201.22      BS2
ATOM  32572  CE1 HIS B  16     157.811 164.370 -30.033  1.00201.22      BS2
ATOM  32573  NE2 HIS B  16     158.179 163.370 -29.254  1.00201.22      BS2
ATOM  32574  C   HIS B  16     157.384 160.910 -34.605  1.00113.91      BS2
ATOM  32575  O   HIS B  16     157.900 160.944 -35.714  1.00113.91      BS2
ATOM  32576  N   PHE B  17     156.314 160.178 -34.323  1.00 65.14      BS2
ATOM  32577  CA  PHE B  17     155.616 159.347 -35.308  1.00 65.14      BS2
ATOM  32578  CB  PHE B  17     154.464 160.142 -35.953  1.00 85.53      BS2
ATOM  32579  CG  PHE B  17     154.807 160.804 -37.265  1.00 85.53      BS2
ATOM  32580  CD1 PHE B  17     154.062 160.520 -38.406  1.00 85.53      BS2
ATOM  32581  CD2 PHE B  17     155.851 161.720 -37.361  1.00 85.53      BS2
ATOM  32582  CE1 PHE B  17     154.349 161.133 -39.621  1.00 85.53      BS2
ATOM  32583  CE2 PHE B  17     156.147 162.337 -38.573  1.00 85.53      BS2
ATOM  32584  CZ  PHE B  17     155.393 162.041 -39.704  1.00 85.53      BS2
ATOM  32585  C   PHE B  17     156.463 158.672 -36.395  1.00 65.14      BS2
ATOM  32586  O   PHE B  17     157.155 159.325 -37.177  1.00 65.14      BS2
ATOM  32587  N   GLY B  18     156.396 157.346 -36.439  1.00137.55      BS2
ATOM  32588  CA  GLY B  18     157.150 156.603 -37.433  1.00137.55      BS2
ATOM  32589  C   GLY B  18     158.631 156.523 -37.128  1.00137.55      BS2
ATOM  32590  O   GLY B  18     159.326 157.540 -37.109  1.00137.55      BS2
ATOM  32591  N   HIS B  19     159.116 155.307 -36.895  1.00 88.45      BS2
ATOM  32592  CA  HIS B  19     160.523 155.096 -36.587  1.00 88.45      BS2
ATOM  32593  CB  HIS B  19     160.802 155.530 -35.146  1.00201.26      BS2
ATOM  32594  CG  HIS B  19     162.247 155.796 -34.861  1.00201.26      BS2
ATOM  32595  CD2 HIS B  19     163.084 155.278 -33.932  1.00201.26      BS2
ATOM  32596  ND1 HIS B  19     162.988 156.714 -35.575  1.00201.26      BS2
ATOM  32597  CE1 HIS B  19     164.220 156.749 -35.097  1.00201.26      BS2
ATOM  32598  NE2 HIS B  19     164.304 155.887 -34.100  1.00201.26      BS2
ATOM  32599  C   HIS B  19     160.887 153.621 -36.777  1.00 88.45      BS2
ATOM  32600  O   HIS B  19     160.007 152.780 -36.971  1.00 88.45      BS2
ATOM  32601  N   GLU B  20     162.185 153.324 -36.739  1.00 58.59      BS2
ATOM  32602  CA  GLU B  20     162.697 151.964 -36.892  1.00 58.59      BS2
ATOM  32603  CB  GLU B  20     162.263 151.100 -35.707  1.00 51.34      BS2
ATOM  32604  CG  GLU B  20     162.583 151.684 -34.330  1.00 51.34      BS2
ATOM  32605  CD  GLU B  20     164.042 152.067 -34.162  1.00 51.34      BS2
ATOM  32606  OE1 GLU B  20     164.846 151.710 -35.051  1.00 51.34      BS2
ATOM  32607  OE2 GLU B  20     164.380 152.717 -33.141  1.00 51.34      BS2
ATOM  32608  C   GLU B  20     162.282 151.278 -38.193  1.00 58.59      BS2
ATOM  32609  O   GLU B  20     161.106 151.255 -38.559  1.00 58.59      BS2
ATOM  32610  N   ARG B  21     163.274 150.708 -38.871  1.00 69.70      BS2
ATOM  32611  CA  ARG B  21     163.104 150.006 -40.144  1.00 69.70      BS2
ATOM  32612  CB  ARG B  21     164.406 149.272 -40.482  1.00181.75      BS2
ATOM  32613  CG  ARG B  21     165.579 149.673 -39.587  1.00181.75      BS2
ATOM  32614  CD  ARG B  21     166.665 148.607 -39.562  1.00181.75      BS2
ATOM  32615  NE  ARG B  21     167.723 148.899 -38.593  1.00181.75      BS2
ATOM  32616  CZ  ARG B  21     167.525 149.088 -37.290  1.00181.75      BS2
ATOM  32617  NH1 ARG B  21     166.304 149.021 -36.780  1.00181.75      BS2
ATOM  32618  NH2 ARG B  21     168.554 149.333 -36.490  1.00181.75      BS2
ATOM  32619  C   ARG B  21     161.950 149.002 -40.112  1.00 69.70      BS2
ATOM  32620  O   ARG B  21     160.779 149.381 -40.112  1.00 69.70      BS2
ATOM  32621  N   LYS B  22     162.315 147.718 -40.107  1.00 62.72      BS2
ATOM  32622  CA  LYS B  22     161.391 146.581 -40.056  1.00 62.72      BS2
ATOM  32623  CB  LYS B  22     160.970 146.130 -41.460  1.00110.94      BS2
ATOM  32624  CG  LYS B  22     159.939 147.030 -42.119  1.00110.94      BS2
ATOM  32625  CD  LYS B  22     159.484 146.493 -43.473  1.00110.94      BS2
ATOM  32626  CE  LYS B  22     158.753 145.158 -43.347  1.00110.94      BS2
ATOM  32627  NZ  LYS B  22     158.175 144.692 -44.650  1.00110.94      BS2
ATOM  32628  C   LYS B  22     162.131 145.452 -39.353  1.00 62.72      BS2
ATOM  32629  O   LYS B  22     162.533 144.462 -39.958  1.00 62.72      BS2
ATOM  32630  N   ARG B  23     162.341 145.653 -38.063  1.00118.97      BS2
ATOM  32631  CA  ARG B  23     163.012 144.701 -37.197  1.00118.97      BS2
ATOM  32632  CB  ARG B  23     164.482 145.090 -37.040  1.00150.19      BS2
ATOM  32633  CG  ARG B  23     164.723 146.591 -36.957  1.00150.19      BS2
ATOM  32634  CD  ARG B  23     164.122 147.177 -35.697  1.00150.19      BS2
ATOM  32635  NE  ARG B  23     164.798 146.694 -34.496  1.00150.19      BS2
ATOM  32636  CZ  ARG B  23     164.177 146.392 -33.360  1.00150.19      BS2
ATOM  32637  NH1 ARG B  23     162.860 146.517 -33.270  1.00150.19      BS2
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ATOM  32638  NH2 ARG B  23     164.873 145.968 -32.311  1.00150.19      BS2
ATOM  32639  C   ARG B  23     162.240 144.862 -35.895  1.00118.97      BS2
ATOM  32640  O   ARG B  23     162.692 144.508 -34.810  1.00118.97      BS2
ATOM  32641  N   TRP B  24     161.051 145.426 -36.065  1.00 91.17      BS2
ATOM  32642  CA  TRP B  24     160.078 145.715 -35.023  1.00 91.17      BS2
ATOM  32643  CB  TRP B  24     158.730 145.983 -35.687  1.00 74.49      BS2
ATOM  32644  CG  TRP B  24     158.097 144.713 -36.201  1.00 74.49      BS2
ATOM  32645  CD2 TRP B  24     156.699 144.444 -36.357  1.00 74.49      BS2
ATOM  32646  CE2 TRP B  24     156.581 143.132 -36.868  1.00 74.49      BS2
ATOM  32647  CE3 TRP B  24     155.537 145.182 -36.113  1.00 74.49      BS2
ATOM  32648  CD1 TRP B  24     158.747 143.587 -36.615  1.00 74.49      BS2
ATOM  32649  NE1 TRP B  24     157.846 142.633 -37.015  1.00 74.49      BS2
ATOM  32650  CZ2 TRP B  24     155.348 142.543 -37.143  1.00 74.49      BS2
ATOM  32651  CZ3 TRP B  24     154.309 144.596 -36.387  1.00 74.49      BS2
ATOM  32652  CH2 TRP B  24     154.226 143.285 -36.896  1.00 74.49      BS2
ATOM  32653  C   TRP B  24     159.869 144.606 -34.003  1.00 91.17      BS2
ATOM  32654  O   TRP B  24     160.629 143.644 -33.912  1.00 91.17      BS2
ATOM  32655  N   ASN B  25     158.790 144.774 -33.249  1.00 66.10      BS2
ATOM  32656  CA  ASN B  25     158.349 143.828 -32.241  1.00 66.10      BS2
ATOM  32657  CB  ASN B  25     158.657 144.337 -30.838  1.00 67.75      BS2
ATOM  32658  CG  ASN B  25     158.120 143.417 -29.765  1.00 67.75      BS2
ATOM  32659  OD1 ASN B  25     158.644 143.377 -28.648  1.00 67.75      BS2
ATOM  32660  ND2 ASN B  25     157.066 142.670 -30.094  1.00 67.75      BS2
ATOM  32661  C   ASN B  25     156.850 143.773 -32.463  1.00 66.10      BS2
ATOM  32662  O   ASN B  25     156.145 144.737 -32.206  1.00 66.10      BS2
ATOM  32663  N   PRO B  26     156.344 142.641 -32.948  1.00 50.54      BS2
ATOM  32664  CD  PRO B  26     157.017 141.357 -33.180  1.00 70.13      BS2
ATOM  32665  CA  PRO B  26     154.915 142.517 -33.200  1.00 50.54      BS2
ATOM  32666  CB  PRO B  26     154.748 141.031 -33.471  1.00 70.13      BS2
ATOM  32667  CG  PRO B  26     156.048 140.667 -34.094  1.00 70.13      BS2
ATOM  32668  C   PRO B  26     154.023 143.007 -32.069  1.00 50.54      BS2
ATOM  32669  O   PRO B  26     152.920 143.484 -32.328  1.00 50.54      BS2
ATOM  32670  N   LYS B  27     154.487 142.906 -30.822  1.00 41.58      BS2
ATOM  32671  CA  LYS B  27     153.662 143.343 -29.690  1.00 41.58      BS2
ATOM  32672  CB  LYS B  27     154.344 143.009 -28.353  1.00 51.97      BS2
ATOM  32673  CG  LYS B  27     154.292 141.521 -28.003  1.00 51.97      BS2
ATOM  32674  CD  LYS B  27     154.657 141.241 -26.547  1.00 51.97      BS2
ATOM  32675  CE  LYS B  27     154.607 139.732 -26.261  1.00 51.97      BS2
ATOM  32676  NZ  LYS B  27     154.922 139.328 -24.848  1.00 51.97      BS2
ATOM  32677  C   LYS B  27     153.319 144.827 -29.757  1.00 41.58      BS2
ATOM  32678  O   LYS B  27     152.299 145.275 -29.243  1.00 41.58      BS2
ATOM  32679  N   PHE B  28     154.178 145.575 -30.425  1.00 62.77      BS2
ATOM  32680  CA  PHE B  28     154.007 147.005 -30.591  1.00 62.77      BS2
ATOM  32681  CB  PHE B  28     155.385 147.627 -30.815  1.00 78.01      BS2
ATOM  32682  CG  PHE B  28     155.371 149.109 -30.913  1.00 78.01      BS2
ATOM  32683  CD1 PHE B  28     155.463 149.887 -29.773  1.00 78.01      BS2
ATOM  32684  CD2 PHE B  28     155.238 149.729 -32.148  1.00 78.01      BS2
ATOM  32685  CE1 PHE B  28     155.421 151.265 -29.859  1.00 78.01      BS2
ATOM  32686  CE2 PHE B  28     155.194 151.103 -32.247  1.00 78.01      BS2
ATOM  32687  CZ  PHE B  28     155.286 151.878 -31.098  1.00 78.01      BS2
ATOM  32688  C   PHE B  28     153.101 147.263 -31.802  1.00 62.77      BS2
ATOM  32689  O   PHE B  28     152.754 148.407 -32.109  1.00 62.77      BS2
ATOM  32690  N   ALA B  29     152.715 146.186 -32.476  1.00 78.53      BS2
ATOM  32691  CA  ALA B  29     151.884 146.277 -33.669  1.00 78.53      BS2
ATOM  32692  CB  ALA B  29     151.433 144.886 -34.091  1.00114.92      BS2
ATOM  32693  C   ALA B  29     150.671 147.191 -33.563  1.00 78.53      BS2
ATOM  32694  O   ALA B  29     150.245 147.773 -34.566  1.00 78.53      BS2
ATOM  32695  N   ARG B  30     150.113 147.321 -32.362  1.00 63.41      BS2
ATOM  32696  CA  ARG B  30     148.925 148.149 -32.170  1.00 63.41      BS2
ATOM  32697  CB  ARG B  30     148.352 147.930 -30.765  1.00 99.80      BS2
ATOM  32698  CG  ARG B  30     149.200 148.480 -29.645  1.00 99.80      BS2
ATOM  32699  CD  ARG B  30     148.780 147.924 -28.297  1.00 99.80      BS2
ATOM  32700  NE  ARG B  30     149.206 146.535 -28.143  1.00 99.80      BS2
ATOM  32701  CZ  ARG B  30     149.765 146.040 -27.041  1.00 99.80      BS2
ATOM  32702  NH1 ARG B  30     149.967 146.822 -25.985  1.00 99.80      BS2
ATOM  32703  NH2 ARG B  30     150.139 144.764 -26.998  1.00 99.80      BS2
ATOM  32704  C   ARG B  30     149.165 149.636 -32.412  1.00 63.41      BS2
ATOM  32705  O   ARG B  30     148.405 150.275 -33.135  1.00 63.41      BS2
ATOM  32706  N   TYR B  31     150.228 150.176 -31.823  1.00 45.93      BS2
ATOM  32707  CA  TYR B  31     150.556 151.591 -31.963  1.00 45.93      BS2
ATOM  32708  CB  TYR B  31     151.546 152.001 -30.882  1.00 69.56      BS2
ATOM  32709  CG  TYR B  31     151.071 151.706 -29.492  1.00 69.56      BS2
ATOM  32710  CD1 TYR B  31     151.975 151.558 -28.452  1.00 69.56      BS2
ATOM  32711  CE1 TYR B  31     151.548 151.270 -27.168  1.00 69.56      BS2
ATOM  32712  CD2 TYR B  31     149.717 151.562 -29.216  1.00 69.56      BS2
ATOM  32713  CE2 TYR B  31     149.274 151.273 -27.935  1.00 69.56      BS2
ATOM  32714  CZ  TYR B  31     150.196 151.124 -26.914  1.00 69.56      BS2
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ATOM  32715  OH  TYR B  31     149.770 150.804 -25.642  1.00 69.56      BS2
ATOM  32716  C   TYR B  31     151.138 151.961 -33.316  1.00 45.93      BS2
ATOM  32717  O   TYR B  31     151.609 153.079 -33.494  1.00 45.93      BS2
ATOM  32718  N   ILE B  32     151.121 151.034 -34.267  1.00 67.69      BS2
ATOM  32719  CA  ILE B  32     151.667 151.324 -35.589  1.00 67.69      BS2
ATOM  32720  CB  ILE B  32     152.502 150.144 -36.128  1.00 53.85      BS2
ATOM  32721  CG2 ILE B  32     152.792 150.345 -37.620  1.00 53.85      BS2
ATOM  32722  CG1 ILE B  32     153.782 150.013 -35.288  1.00 53.85      BS2
ATOM  32723  CD1 ILE B  32     154.832 149.090 -35.860  1.00 53.85      BS2
ATOM  32724  C   ILE B  32     150.587 151.664 -36.596  1.00 67.69      BS2
ATOM  32725  O   ILE B  32     149.537 151.029 -36.632  1.00 67.69      BS2
ATOM  32726  N   TYR B  33     150.845 152.676 -37.414  1.00 64.61      BS2
ATOM  32727  CA  TYR B  33     149.872 153.084 -38.411  1.00 64.61      BS2
ATOM  32728  CB  TYR B  33     149.978 154.587 -38.686  1.00148.44      BS2
ATOM  32729  CG  TYR B  33     148.842 155.156 -39.513  1.00148.44      BS2
ATOM  32730  CD1 TYR B  33     148.527 154.625 -40.761  1.00148.44      BS2
ATOM  32731  CE1 TYR B  33     147.495 155.148 -41.525  1.00148.44      BS2
ATOM  32732  CD2 TYR B  33     148.090 156.234 -39.048  1.00148.44      BS2
ATOM  32733  CE2 TYR B  33     147.055 156.766 -39.805  1.00148.44      BS2
ATOM  32734  CZ  TYR B  33     146.763 156.217 -41.043  1.00148.44      BS2
ATOM  32735  OH  TYR B  33     145.742 156.733 -41.804  1.00148.44      BS2
ATOM  32736  C   TYR B  33     150.117 152.308 -39.692  1.00 64.61      BS2
ATOM  32737  O   TYR B  33     149.194 151.720 -40.263  1.00 64.61      BS2
ATOM  32738  N   ALA B  34     151.366 152.305 -40.142  1.00 88.87      BS2
ATOM  32739  CA  ALA B  34     151.702 151.596 -41.363  1.00 88.87      BS2
ATOM  32740  CB  ALA B  34     150.804 152.068 -42.477  1.00  2.92      BS2
ATOM  32741  C   ALA B  34     153.166 151.746 -41.765  1.00 88.87      BS2
ATOM  32742  O   ALA B  34     153.907 152.542 -41.188  1.00 88.87      BS2
ATOM  32743  N   GLU B  35     153.572 150.966 -42.761  1.00 88.74      BS2
ATOM  32744  CA  GLU B  35     154.941 150.994 -43.248  1.00 88.74      BS2
ATOM  32745  CB  GLU B  35     155.423 149.579 -43.556  1.00200.69      BS2
ATOM  32746  CG  GLU B  35     155.054 148.544 -42.521  1.00200.69      BS2
ATOM  32747  CD  GLU B  35     155.316 147.137 -43.013  1.00200.69      BS2
ATOM  32748  OE1 GLU B  35     156.486 146.826 -43.313  1.00200.69      BS2
ATOM  32749  OE2 GLU B  35     154.353 146.346 -43.106  1.00200.69      BS2
ATOM  32750  C   GLU B  35     154.990 151.802 -44.531  1.00 88.74      BS2
ATOM  32751  O   GLU B  35     154.230 151.535 -45.465  1.00 88.74      BS2
ATOM  32752  N   ARG B  36     155.877 152.790 -44.573  1.00131.84      BS2
ATOM  32753  CA  ARG B  36     156.055 153.624 -45.757  1.00131.84      BS2
ATOM  32754  CB  ARG B  36     155.703 155.083 -45.462  1.00184.01      BS2
ATOM  32755  CG  ARG B  36     154.217 155.410 -45.541  1.00184.01      BS2
ATOM  32756  CD  ARG B  36     153.986 156.910 -45.386  1.00184.01      BS2
ATOM  32757  NE  ARG B  36     152.592 157.297 -45.589  1.00184.01      BS2
ATOM  32758  CZ  ARG B  36     152.141 158.543 -45.478  1.00184.01      BS2
ATOM  32759  NH1 ARG B  36     152.974 159.528 -45.166  1.00184.01      BS2
ATOM  32760  NH2 ARG B  36     150.858 158.806 -45.680  1.00184.01      BS2
ATOM  32761  C   ARG B  36     157.515 153.523 -46.164  1.00131.84      BS2
ATOM  32762  O   ARG B  36     158.398 153.948 -45.418  1.00131.84      BS2
ATOM  32763  N   ASN B  37     157.766 152.955 -47.340  1.00171.03      BS2
ATOM  32764  CA  ASN B  37     159.129 152.786 -47.833  1.00171.03      BS2
ATOM  32765  CB  ASN B  37     159.684 154.121 -48.340  1.00201.26      BS2
ATOM  32766  CG  ASN B  37     158.905 154.668 -49.522  1.00201.26      BS2
ATOM  32767  OD1 ASN B  37     158.812 154.027 -50.570  1.00201.26      BS2
ATOM  32768  ND2 ASN B  37     158.342 155.859 -49.360  1.00201.26      BS2
ATOM  32769  C   ASN B  37     159.996 152.260 -46.696  1.00171.03      BS2
ATOM  32770  O   ASN B  37     161.030 152.841 -46.360  1.00171.03      BS2
ATOM  32771  N   GLY B  38     159.559 151.154 -46.105  1.00117.18      BS2
ATOM  32772  CA  GLY B  38     160.293 150.570 -45.001  1.00117.18      BS2
ATOM  32773  C   GLY B  38     159.612 150.930 -43.699  1.00117.18      BS2
ATOM  32774  O   GLY B  38     158.448 150.592 -43.492  1.00117.18      BS2
ATOM  32775  N   ILE B  39     160.336 151.626 -42.831  1.00 52.58      BS2
ATOM  32776  CA  ILE B  39     159.830 152.053 -41.528  1.00 52.58      BS2
ATOM  32777  CB  ILE B  39     160.443 153.407 -41.138  1.00134.46      BS2
ATOM  32778  CG2 ILE B  39     159.963 153.816 -39.762  1.00134.46      BS2
ATOM  32779  CG1 ILE B  39     161.967 153.308 -41.153  1.00134.46      BS2
ATOM  32780  CD1 ILE B  39     162.668 154.603 -40.778  1.00134.46      BS2
ATOM  32781  C   ILE B  39     158.300 152.172 -41.381  1.00 52.58      BS2
ATOM  32782  O   ILE B  39     157.593 152.560 -42.320  1.00 52.58      BS2
ATOM  32783  N   HIS B  40     157.804 151.824 -40.191  1.00 58.12      BS2
ATOM  32784  CA  HIS B  40     156.377 151.916 -39.885  1.00 58.12      BS2
ATOM  32785  CB  HIS B  40     155.962 150.982 -38.740  1.00 83.08      BS2
ATOM  32786  CG  HIS B  40     156.333 149.545 -38.934  1.00 83.08      BS2
ATOM  32787  CD2 HIS B  40     155.568 148.457 -39.189  1.00 83.08      BS2
ATOM  32788  ND1 HIS B  40     157.625 149.084 -38.805  1.00 83.08      BS2
ATOM  32789  CE1 HIS B  40     157.640 147.773 -38.970  1.00 83.08      BS2
ATOM  32790  NE2 HIS B  40     156.405 147.369 -39.204  1.00 83.08      BS2
ATOM  32791  C   HIS B  40     156.180 153.337 -39.389  1.00 58.12      BS2
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ATOM  32792  O   HIS B  40     157.149 154.025 -39.076  1.00 58.12      BS2
ATOM  32793  N   ILE B  41     154.932 153.771 -39.284  1.00 80.97      BS2
ATOM  32794  CA  ILE B  41     154.661 155.117 -38.803  1.00 80.97      BS2
ATOM  32795  CB  ILE B  41     154.152 156.012 -39.946  1.00165.51      BS2
ATOM  32796  CG2 ILE B  41     153.762 157.377 -39.404  1.00165.51      BS2
ATOM  32797  CG1 ILE B  41     155.248 156.148 -41.010  1.00165.51      BS2
ATOM  32798  CD1 ILE B  41     154.898 157.064 -42.163  1.00165.51      BS2
ATOM  32799  C   ILE B  41     153.677 155.139 -37.633  1.00 80.97      BS2
ATOM  32800  O   ILE B  41     152.468 155.008 -37.813  1.00 80.97      BS2
ATOM  32801  N   ILE B  42     154.226 155.306 -36.434  1.00 57.53      BS2
ATOM  32802  CA  ILE B  42     153.455 155.347 -35.196  1.00 57.53      BS2
ATOM  32803  CB  ILE B  42     154.340 155.834 -34.032  1.00 52.45      BS2
ATOM  32804  CG2 ILE B  42     153.570 155.780 -32.710  1.00 52.45      BS2
ATOM  32805  CG1 ILE B  42     155.603 154.985 -33.959  1.00 52.45      BS2
ATOM  32806  CD1 ILE B  42     156.567 155.459 -32.902  1.00 52.45      BS2
ATOM  32807  C   ILE B  42     152.208 156.237 -35.231  1.00 57.53      BS2
ATOM  32808  O   ILE B  42     152.311 157.462 -35.265  1.00 57.53      BS2
ATOM  32809  N   ASP B  43     151.034 155.610 -35.204  1.00 66.19      BS2
ATOM  32810  CA  ASP B  43     149.753 156.318 -35.198  1.00 66.19      BS2
ATOM  32811  CB  ASP B  43     148.620 155.295 -35.072  1.00 80.62      BS2
ATOM  32812  CG  ASP B  43     147.251 155.933 -34.990  1.00 80.62      BS2
ATOM  32813  OD1 ASP B  43     147.069 156.863 -34.179  1.00 80.62      BS2
ATOM  32814  OD2 ASP B  43     146.348 155.492 -35.730  1.00 80.62      BS2
ATOM  32815  C   ASP B  43     149.740 157.267 -33.996  1.00 66.19      BS2
ATOM  32816  O   ASP B  43     149.540 156.837 -32.859  1.00 66.19      BS2
ATOM  32817  N   LEU B  44     149.944 158.555 -34.245  1.00 43.03      BS2
ATOM  32818  CA  LEU B  44     149.979 159.542 -33.163  1.00 43.03      BS2
ATOM  32819  CB  LEU B  44     150.382 160.888 -33.715  1.00 41.81      BS2
ATOM  32820  CG  LEU B  44     151.786 160.824 -34.258  1.00 41.81      BS2
ATOM  32821  CD1 LEU B  44     152.069 162.102 -35.004  1.00 41.81      BS2
ATOM  32822  CD2 LEU B  44     152.754 160.602 -33.115  1.00 41.81      BS2
ATOM  32823  C   LEU B  44     148.687 159.707 -32.384  1.00 43.03      BS2
ATOM  32824  O   LEU B  44     148.704 159.981 -31.176  1.00 43.03      BS2
ATOM  32825  N   GLN B  45     147.568 159.581 -33.086  1.00 80.33      BS2
ATOM  32826  CA  GLN B  45     146.282 159.703 -32.434  1.00 80.33      BS2
ATOM  32827  CB  GLN B  45     145.181 159.122 -33.328  1.00183.28      BS2
ATOM  32828  CG  GLN B  45     145.049 159.807 -34.692  1.00183.28      BS2
ATOM  32829  CD  GLN B  45     146.244 159.566 -35.607  1.00183.28      BS2
ATOM  32830  OE1 GLN B  45     146.503 158.439 -36.022  1.00183.28      BS2
ATOM  32831  NE2 GLN B  45     146.973 160.629 -35.925  1.00183.28      BS2
ATOM  32832  C   GLN B  45     146.431 158.891 -31.154  1.00 80.33      BS2
ATOM  32833  O   GLN B  45     146.111 159.355 -30.058  1.00 80.33      BS2
ATOM  32834  N   LYS B  46     146.968 157.684 -31.307  1.00 59.94      BS2
ATOM  32835  CA  LYS B  46     147.177 156.801 -30.181  1.00 59.94      BS2
ATOM  32836  CB  LYS B  46     147.624 155.420 -30.663  1.00133.27      BS2
ATOM  32837  CG  LYS B  46     146.560 154.708 -31.484  1.00133.27      BS2
ATOM  32838  CD  LYS B  46     146.896 153.248 -31.725  1.00133.27      BS2
ATOM  32839  CE  LYS B  46     145.792 152.569 -32.526  1.00133.27      BS2
ATOM  32840  NZ  LYS B  46     146.041 151.115 -32.754  1.00133.27      BS2
ATOM  32841  C   LYS B  46     148.209 157.415 -29.262  1.00 59.94      BS2
ATOM  32842  O   LYS B  46     148.052 157.395 -28.038  1.00 59.94      BS2
ATOM  32843  N   THR B  47     149.260 157.976 -29.849  1.00 70.37      BS2
ATOM  32844  CA  THR B  47     150.301 158.616 -29.054  1.00 70.37      BS2
ATOM  32845  CB  THR B  47     151.279 159.396 -29.944  1.00 40.44      BS2
ATOM  32846  OG1 THR B  47     151.618 158.599 -31.083  1.00 40.44      BS2
ATOM  32847  CG2 THR B  47     152.558 159.716 -29.172  1.00 40.44      BS2
ATOM  32848  C   THR B  47     149.603 159.586 -28.102  1.00 70.37      BS2
ATOM  32849  O   THR B  47     149.931 159.670 -26.915  1.00 70.37      BS2
ATOM  32850  N   MET B  48     148.621 160.304 -28.638  1.00115.25      BS2
ATOM  32851  CA  MET B  48     147.844 161.255 -27.856  1.00115.25      BS2
ATOM  32852  CB  MET B  48     146.765 161.892 -28.731  1.00131.68      BS2
ATOM  32853  CG  MET B  48     147.291 162.841 -29.781  1.00131.68      BS2
ATOM  32854  SD  MET B  48     147.976 164.327 -29.033  1.00131.68      BS2
ATOM  32855  CE  MET B  48     146.533 165.393 -29.013  1.00131.68      BS2
ATOM  32856  C   MET B  48     147.176 160.535 -26.693  1.00115.25      BS2
ATOM  32857  O   MET B  48     147.396 160.869 -25.525  1.00115.25      BS2
ATOM  32858  N   GLU B  49     146.361 159.539 -27.033  1.00 72.21      BS2
ATOM  32859  CA  GLU B  49     145.628 158.762 -26.045  1.00 72.21      BS2
ATOM  32860  CB  GLU B  49     144.955 157.565 -26.727  1.00201.26      BS2
ATOM  32861  CG  GLU B  49     143.866 157.976 -27.716  1.00201.26      BS2
ATOM  32862  CD  GLU B  49     143.191 156.796 -28.393  1.00201.26      BS2
ATOM  32863  OE1 GLU B  49     142.687 155.904 -27.680  1.00201.26      BS2
ATOM  32864  OE2 GLU B  49     143.158 156.767 -29.642  1.00201.26      BS2
ATOM  32865  C   GLU B  49     146.480 158.299 -24.866  1.00 72.21      BS2
ATOM  32866  O   GLU B  49     146.077 158.440 -23.710  1.00 72.21      BS2
ATOM  32867  N   GLU B  50     147.659 157.757 -25.146  1.00 76.10      BS2
ATOM  32868  CA  GLU B  50     148.517 157.292 -24.066  1.00 76.10      BS2
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ATOM  32869  CB  GLU B  50     149.592 156.342 -24.595  1.00114.22      BS2
ATOM  32870  CG  GLU B  50     149.045 155.014 -25.107  1.00114.22      BS2
ATOM  32871  CD  GLU B  50     148.139 154.321 -24.101  1.00114.22      BS2
ATOM  32872  OE1 GLU B  50     148.498 154.283 -22.904  1.00114.22      BS2
ATOM  32873  OE2 GLU B  50     147.074 153.809 -24.511  1.00114.22      BS2
ATOM  32874  C   GLU B  50     149.158 158.473 -23.372  1.00 76.10      BS2
ATOM  32875  O   GLU B  50     149.347 158.457 -22.159  1.00 76.10      BS2
ATOM  32876  N   LEU B  51     149.491 159.499 -24.146  1.00 53.63      BS2
ATOM  32877  CA  LEU B  51     150.094 160.696 -23.581  1.00 53.63      BS2
ATOM  32878  CB  LEU B  51     150.172 161.795 -24.638  1.00 56.89      BS2
ATOM  32879  CG  LEU B  51     151.469 161.813 -25.446  1.00 56.89      BS2
ATOM  32880  CD1 LEU B  51     151.342 162.733 -26.645  1.00 56.89      BS2
ATOM  32881  CD2 LEU B  51     152.608 162.253 -24.538  1.00 56.89      BS2
ATOM  32882  C   LEU B  51     149.217 161.150 -22.430  1.00 53.63      BS2
ATOM  32883  O   LEU B  51     149.692 161.375 -21.310  1.00 53.63      BS2
ATOM  32884  N   GLU B  52     147.925 161.268 -22.730  1.00 93.98      BS2
ATOM  32885  CA  GLU B  52     146.913 161.685 -21.765  1.00 93.98      BS2
ATOM  32886  CB  GLU B  52     145.520 161.397 -22.336  1.00201.26      BS2
ATOM  32887  CG  GLU B  52     144.356 161.767 -21.430  1.00201.26      BS2
ATOM  32888  CD  GLU B  52     143.008 161.426 -22.047  1.00201.26      BS2
ATOM  32889  OE1 GLU B  52     141.971 161.646 -21.384  1.00201.26      BS2
ATOM  32890  OE2 GLU B  52     142.985 160.937 -23.197  1.00201.26      BS2
ATOM  32891  C   GLU B  52     147.108 160.943 -20.444  1.00 93.98      BS2
ATOM  32892  O   GLU B  52     147.628 161.506 -19.475  1.00 93.98      BS2
ATOM  32893  N   ARG B  53     146.691 159.677 -20.426  1.00115.35      BS2
ATOM  32894  CA  ARG B  53     146.809 158.824 -19.247  1.00115.35      BS2
ATOM  32895  CB  ARG B  53     146.710 157.348 -19.640  1.00 88.65      BS2
ATOM  32896  CG  ARG B  53     145.320 156.885 -20.039  1.00 88.65      BS2
ATOM  32897  CD  ARG B  53     145.256 155.374 -20.281  1.00 88.65      BS2
ATOM  32898  NE  ARG B  53     145.724 154.594 -19.134  1.00 88.65      BS2
ATOM  32899  CZ  ARG B  53     147.000 154.308 -18.883  1.00 88.65      BS2
ATOM  32900  NH1 ARG B  53     147.953 154.733 -19.701  1.00 88.65      BS2
ATOM  32901  NH2 ARG B  53     147.329 153.605 -17.809  1.00 88.65      BS2
ATOM  32902  C   ARG B  53     148.144 159.055 -18.572  1.00115.35      BS2
ATOM  32903  O   ARG B  53     148.220 159.374 -17.387  1.00115.35      BS2
ATOM  32904  N   THR B  54     149.198 158.886 -19.356  1.00 79.22      BS2
ATOM  32905  CA  THR B  54     150.556 159.056 -18.878  1.00 79.22      BS2
ATOM  32906  CB  THR B  54     151.532 159.083 -20.052  1.00 58.74      BS2
ATOM  32907  OG1 THR B  54     151.364 157.897 -20.835  1.00 58.74      BS2
ATOM  32908  CG2 THR B  54     152.957 159.150 -19.546  1.00 58.74      BS2
ATOM  32909  C   THR B  54     150.713 160.337 -18.076  1.00 79.22      BS2
ATOM  32910  O   THR B  54     150.697 160.318 -16.846  1.00 79.22      BS2
ATOM  32911  N   PHE B  55     150.874 161.448 -18.785  1.00 92.42      BS2
ATOM  32912  CA  PHE B  55     151.032 162.738 -18.137  1.00 92.42      BS2
ATOM  32913  CB  PHE B  55     150.834 163.859 -19.160  1.00 94.47      BS2
ATOM  32914  CG  PHE B  55     152.007 164.040 -20.087  1.00 94.47      BS2
ATOM  32915  CD1 PHE B  55     152.501 162.970 -20.824  1.00 94.47      BS2
ATOM  32916  CD2 PHE B  55     152.645 165.271 -20.188  1.00 94.47      BS2
ATOM  32917  CE1 PHE B  55     153.615 163.124 -21.642  1.00 94.47      BS2
ATOM  32918  CE2 PHE B  55     153.760 165.434 -21.005  1.00 94.47      BS2
ATOM  32919  CZ  PHE B  55     154.246 164.359 -21.731  1.00 94.47      BS2
ATOM  32920  C   PHE B  55     150.020 162.831 -17.010  1.00 92.42      BS2
ATOM  32921  O   PHE B  55     150.359 163.226 -15.889  1.00 92.42      BS2
ATOM  32922  N   ARG B  56     148.783 162.439 -17.318  1.00 74.36      BS2
ATOM  32923  CA  ARG B  56     147.705 162.442 -16.336  1.00 74.36      BS2
ATOM  32924  CB  ARG B  56     146.565 161.526 -16.799  1.00183.67      BS2
ATOM  32925  CG  ARG B  56     145.475 161.302 -15.763  1.00183.67      BS2
ATOM  32926  CD  ARG B  56     144.707 160.000 -16.004  1.00183.67      BS2
ATOM  32927  NE  ARG B  56     143.842 160.038 -17.182  1.00183.67      BS2
ATOM  32928  CZ  ARG B  56     143.059 159.032 -17.565  1.00183.67      BS2
ATOM  32929  NH1 ARG B  56     143.030 157.905 -16.865  1.00183.67      BS2
ATOM  32930  NH2 ARG B  56     142.298 159.151 -18.645  1.00183.67      BS2
ATOM  32931  C   ARG B  56     148.320 161.894 -15.063  1.00 74.36      BS2
ATOM  32932  O   ARG B  56     148.297 162.522 -14.005  1.00 74.36      BS2
ATOM  32933  N   PHE B  57     148.905 160.714 -15.205  1.00 67.39      BS2
ATOM  32934  CA  PHE B  57     149.553 160.020 -14.110  1.00 67.39      BS2
ATOM  32935  CB  PHE B  57     150.012 158.641 -14.590  1.00 56.69      BS2
ATOM  32936  CG  PHE B  57     151.016 157.997 -13.696  1.00 56.69      BS2
ATOM  32937  CD1 PHE B  57     150.670 157.602 -12.417  1.00 56.69      BS2
ATOM  32938  CD2 PHE B  57     152.319 157.819 -14.121  1.00 56.69      BS2
ATOM  32939  CE1 PHE B  57     151.613 157.038 -11.570  1.00 56.69      BS2
ATOM  32940  CE2 PHE B  57     153.264 157.258 -13.282  1.00 56.69      BS2
ATOM  32941  CZ  PHE B  57     152.910 156.867 -12.002  1.00 56.69      BS2
ATOM  32942  C   PHE B  57     150.742 160.794 -13.553  1.00 67.39      BS2
ATOM  32943  O   PHE B  57     150.952 160.838 -12.340  1.00 67.39      BS2
ATOM  32944  N   ILE B  58     151.523 161.404 -14.433  1.00 54.74      BS2
ATOM  32945  CA  ILE B  58     152.684 162.136 -13.968  1.00 54.74      BS2
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ATOM  32946  CB  ILE B  58     153.484 162.713 -15.136  1.00 68.52       BS2
ATOM  32947  CG2 ILE B  58     154.888 163.079 -14.666  1.00 68.52       BS2
ATOM  32948  CG1 ILE B  58     153.611 161.661 -16.233  1.00 68.52       BS2
ATOM  32949  CD1 ILE B  58     154.375 162.129 -17.448  1.00 68.52       BS2
ATOM  32950  C   ILE B  58     152.224 163.248 -13.041  1.00 54.74       BS2
ATOM  32951  O   ILE B  58     152.804 163.451 -11.968  1.00 54.74       BS2
ATOM  32952  N   GLU B  59     151.173 163.955 -13.453  1.00 68.69       BS2
ATOM  32953  CA  GLU B  59     150.613 165.032 -12.638  1.00 68.69       BS2
ATOM  32954  CB  GLU B  59     149.248 165.470 -13.176  1.00184.27       BS2
ATOM  32955  CG  GLU B  59     149.292 166.401 -14.369  1.00184.27       BS2
ATOM  32956  CD  GLU B  59     147.926 166.988 -14.684  1.00184.27       BS2
ATOM  32957  OE1 GLU B  59     147.308 167.577 -13.772  1.00184.27       BS2
ATOM  32958  OE2 GLU B  59     147.472 166.863 -15.841  1.00184.27       BS2
ATOM  32959  C   GLU B  59     150.435 164.565 -11.195  1.00 68.69       BS2
ATOM  32960  O   GLU B  59     151.114 165.040 -10.286  1.00 68.69       BS2
ATOM  32961  N   ASP B  60     149.509 163.633 -10.995  1.00 59.46       BS2
ATOM  32962  CA  ASP B  60     149.245 163.109  -9.668  1.00 59.46       BS2
ATOM  32963  CB  ASP B  60     148.461 161.799  -9.762  1.00163.26       BS2
ATOM  32964  CG  ASP B  60     148.383 161.071  -8.433  1.00163.26       BS2
ATOM  32965  OD1 ASP B  60     149.398 160.469  -8.022  1.00163.26       BS2
ATOM  32966  OD2 ASP B  60     147.311 161.109  -7.794  1.00163.26       BS2
ATOM  32967  C   ASP B  60     150.536 162.883  -8.886  1.00 59.46       BS2
ATOM  32968  O   ASP B  60     150.699 163.389  -7.771  1.00 59.46       BS2
ATOM  32969  N   LEU B  61     151.453 162.120  -9.472  1.00 58.35       BS2
ATOM  32970  CA  LEU B  61     152.717 161.827  -8.815  1.00 58.35       BS2
ATOM  32971  CB  LEU B  61     153.569 160.907  -9.701  1.00129.99       BS2
ATOM  32972  CG  LEU B  61     154.789 160.176  -9.115  1.00129.99       BS2
ATOM  32973  CD1 LEU B  61     155.911 161.152  -8.802  1.00129.99       BS2
ATOM  32974  CD2 LEU B  61     154.370 159.414  -7.869  1.00129.99       BS2
ATOM  32975  C   LEU B  61     153.438 163.143  -8.563  1.00 58.35       BS2
ATOM  32976  O   LEU B  61     154.126 163.309  -7.552  1.00 58.35       BS2
ATOM  32977  N   ALA B  62     153.265 164.083  -9.485  1.00 75.31       BS2
ATOM  32978  CA  ALA B  62     153.903 165.387  -9.368  1.00 75.31       BS2
ATOM  32979  CB  ALA B  62     153.685 166.190 -10.645  1.00140.93       BS2
ATOM  32980  C   ALA B  62     153.377 166.162  -8.163  1.00 75.31       BS2
ATOM  32981  O   ALA B  62     154.124 166.440  -7.218  1.00 75.31       BS2
ATOM  32982  N   MET B  63     152.089 166.502  -8.195  1.00 74.14       BS2
ATOM  32983  CA  MET B  63     151.485 167.254  -7.103  1.00 74.14       BS2
ATOM  32984  CB  MET B  63     150.078 167.729  -7.478  1.00134.25       BS2
ATOM  32985  CG  MET B  63     149.007 166.665  -7.428  1.00134.25       BS2
ATOM  32986  SD  MET B  63     147.391 167.395  -7.719  1.00134.25       BS2
ATOM  32987  CE  MET B  63     147.087 168.201  -6.131  1.00134.25       BS2
ATOM  32988  C   MET B  63     151.436 166.434  -5.821  1.00 74.14       BS2
ATOM  32989  O   MET B  63     150.951 166.898  -4.794  1.00 74.14       BS2
ATOM  32990  N   ARG B  64     151.930 165.206  -5.889  1.00 59.45       BS2
ATOM  32991  CA  ARG B  64     151.983 164.339  -4.720  1.00 59.45       BS2
ATOM  32992  CB  ARG B  64     151.776 162.878  -5.126  1.00201.26       BS2
ATOM  32993  CG  ARG B  64     152.018 161.880  -4.006  1.00201.26       BS2
ATOM  32994  CD  ARG B  64     151.598 160.487  -4.421  1.00201.26       BS2
ATOM  32995  NE  ARG B  64     150.165 160.428  -4.689  1.00201.26       BS2
ATOM  32996  CZ  ARG B  64     149.526 159.340  -5.105  1.00201.26       BS2
ATOM  32997  NH1 ARG B  64     150.194 158.212  -5.305  1.00201.26       BS2
ATOM  32998  NH2 ARG B  64     148.217 159.380  -5.318  1.00201.26       BS2
ATOM  32999  C   ARG B  64     153.377 164.529  -4.127  1.00 59.45       BS2
ATOM  33000  O   ARG B  64     153.675 164.043  -3.028  1.00 59.45       BS2
ATOM  33001  N   GLY B  65     154.216 165.246  -4.880  1.00 59.05       BS2
ATOM  33002  CA  GLY B  65     155.583 165.519  -4.468  1.00 59.05       BS2
ATOM  33003  C   GLY B  65     156.510 164.323  -4.606  1.00 59.05       BS2
ATOM  33004  O   GLY B  65     157.502 164.206  -3.883  1.00 59.05       BS2
ATOM  33005  N   GLY B  66     156.189 163.439  -5.547  1.00 92.92       BS2
ATOM  33006  CA  GLY B  66     156.992 162.248  -5.758  1.00 92.92       BS2
ATOM  33007  C   GLY B  66     158.180 162.418  -6.686  1.00 92.92       BS2
ATOM  33008  O   GLY B  66     158.269 163.389  -7.440  1.00 92.92       BS2
ATOM  33009  N   THR B  67     159.090 161.451  -6.630  1.00 89.01       BS2
ATOM  33010  CA  THR B  67     160.301 161.455  -7.444  1.00 89.01       BS2
ATOM  33011  CB  THR B  67     161.507 160.961  -6.607  1.00 76.34       BS2
ATOM  33012  OG1 THR B  67     161.202 159.691  -6.015  1.00 76.34       BS2
ATOM  33013  CG2 THR B  67     161.814 161.943  -5.493  1.00 76.34       BS2
ATOM  33014  C   THR B  67     160.163 160.588  -8.700  1.00 89.01       BS2
ATOM  33015  O   THR B  67     159.569 159.511  -8.661  1.00 89.01       BS2
ATOM  33016  N   ILE B  68     160.708 161.060  -9.815  1.00 54.64       BS2
ATOM  33017  CA  ILE B  68     160.635 160.306 -11.061  1.00 54.64       BS2
ATOM  33018  CB  ILE B  68     159.747 160.977 -12.098  1.00 36.02       BS2
ATOM  33019  CG2 ILE B  68     159.589 160.067 -13.293  1.00 36.02       BS2
ATOM  33020  CG1 ILE B  68     158.374 161.257 -11.518  1.00 36.02       BS2
ATOM  33021  CD1 ILE B  68     157.449 161.949 -12.515  1.00 36.02       BS2
ATOM  33022  C   ILE B  68     162.000 160.171 -11.702  1.00 54.64       BS2
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ATOM  33023  O   ILE B  68     162.396 160.999 -12.519  1.00 54.64       BS2
ATOM  33024  N   LEU B  69     162.717 159.115 -11.352  1.00 69.68       BS2
ATOM  33025  CA  LEU B  69     164.037 158.894 -11.910  1.00 69.68       BS2
ATOM  33026  CB  LEU B  69     164.603 157.592 -11.349  1.00 42.15       BS2
ATOM  33027  CG  LEU B  69     166.114 157.434 -11.455  1.00 42.15       BS2
ATOM  33028  CD1 LEU B  69     166.585 156.126 -10.812  1.00 42.15       BS2
ATOM  33029  CD2 LEU B  69     166.483 157.486 -12.921  1.00 42.15       BS2
ATOM  33030  C   LEU B  69     163.971 158.831 -13.439  1.00 69.68       BS2
ATOM  33031  O   LEU B  69     163.400 157.896 -13.997  1.00 69.68       BS2
ATOM  33032  N   PHE B  70     164.539 159.836 -14.107  1.00 78.32       BS2
ATOM  33033  CA  PHE B  70     164.568 159.870 -15.572  1.00 78.32       BS2
ATOM  33034  CB  PHE B  70     164.755 161.293 -16.092  1.00 64.73       BS2
ATOM  33035  CG  PHE B  70     163.491 162.098 -16.148  1.00 64.73       BS2
ATOM  33036  CD1 PHE B  70     162.886 162.558 -14.983  1.00 64.73       BS2
ATOM  33037  CD2 PHE B  70     162.898 162.395 -17.374  1.00 64.73       BS2
ATOM  33038  CE1 PHE B  70     161.706 163.305 -15.037  1.00 64.73       BS2
ATOM  33039  CE2 PHE B  70     161.722 163.138 -17.437  1.00 64.73       BS2
ATOM  33040  CZ  PHE B  70     161.125 163.593 -16.266  1.00 64.73       BS2
ATOM  33041  C   PHE B  70     165.748 159.033 -16.041  1.00 78.32       BS2
ATOM  33042  O   PHE B  70     166.831 159.111 -15.456  1.00 78.32       BS2
ATOM  33043  N   VAL B  71     165.559 158.238 -17.093  1.00 51.74       BS2
ATOM  33044  CA  VAL B  71     166.660 157.410 -17.575  1.00 51.74       BS2
ATOM  33045  CB  VAL B  71     166.542 155.947 -17.106  1.00 70.72       BS2
ATOM  33046  CG1 VAL B  71     167.824 155.209 -17.429  1.00 70.72       BS2
ATOM  33047  CG2 VAL B  71     166.282 155.884 -15.617  1.00 70.72       BS2
ATOM  33048  C   VAL B  71     166.839 157.385 -19.079  1.00 51.74       BS2
ATOM  33049  O   VAL B  71     165.968 156.928 -19.824  1.00 51.74       BS2
ATOM  33050  N   GLY B  72     167.998 157.879 -19.499  1.00 66.45       BS2
ATOM  33051  CA  GLY B  72     168.360 157.912 -20.900  1.00 66.45       BS2
ATOM  33052  C   GLY B  72     169.866 157.734 -20.975  1.00 66.45       BS2
ATOM  33053  O   GLY B  72     170.615 158.627 -20.571  1.00 66.45       BS2
ATOM  33054  N   THR B  73     170.316 156.577 -21.457  1.00 54.14       BS2
ATOM  33055  CA  THR B  73     171.744 156.309 -21.574  1.00 54.14       BS2
ATOM  33056  CB  THR B  73     172.107 154.882 -21.106  1.00118.77       BS2
ATOM  33057  OG1 THR B  73     171.880 154.766 -19.697  1.00118.77       BS2
ATOM  33058  CG2 THR B  73     173.573 154.579 -21.391  1.00118.77       BS2
ATOM  33059  C   THR B  73     172.138 156.464 -23.031  1.00 54.14       BS2
ATOM  33060  O   THR B  73     173.288 156.770 -23.343  1.00 54.14       BS2
ATOM  33061  N   LYS B  74     171.176 156.247 -23.918  1.00 68.03       BS2
ATOM  33062  CA  LYS B  74     171.412 156.377 -25.347  1.00 68.03       BS2
ATOM  33063  CB  LYS B  74     170.080 156.350 -26.088  1.00 91.11       BS2
ATOM  33064  CG  LYS B  74     170.186 156.730 -27.546  1.00 91.11       BS2
ATOM  33065  CD  LYS B  74     168.812 156.851 -28.178  1.00 91.11       BS2
ATOM  33066  CE  LYS B  74     168.067 155.529 -28.168  1.00 91.11       BS2
ATOM  33067  NZ  LYS B  74     166.809 155.622 -28.957  1.00 91.11       BS2
ATOM  33068  C   LYS B  74     172.125 157.698 -25.626  1.00 68.03       BS2
ATOM  33069  O   LYS B  74     171.609 158.761 -25.284  1.00 68.03       BS2
ATOM  33070  N   LYS B  75     173.308 157.630 -26.238  1.00 96.26       BS2
ATOM  33071  CA  LYS B  75     174.086 158.833 -26.553  1.00 96.26       BS2
ATOM  33072  CB  LYS B  75     175.378 158.465 -27.292  1.00117.00       BS2
ATOM  33073  CG  LYS B  75     176.564 158.142 -26.390  1.00117.00       BS2
ATOM  33074  CD  LYS B  75     177.003 159.368 -25.593  1.00117.00       BS2
ATOM  33075  CE  LYS B  75     178.232 159.088 -24.723  1.00117.00       BS2
ATOM  33076  NZ  LYS B  75     179.475 158.848 -25.514  1.00117.00       BS2
ATOM  33077  C   LYS B  75     173.269 159.775 -27.413  1.00 96.26       BS2
ATOM  33078  O   LYS B  75     173.412 160.995 -27.338  1.00 96.26       BS2
ATOM  33079  N   GLN B  76     172.405 159.187 -28.227  1.00 82.97       BS2
ATOM  33080  CA  GLN B  76     171.546 159.937 -29.126  1.00 82.97       BS2
ATOM  33081  CB  GLN B  76     170.692 158.949 -29.924  1.00 79.61       BS2
ATOM  33082  CG  GLN B  76     170.440 159.311 -31.376  1.00 79.61       BS2
ATOM  33083  CD  GLN B  76     169.675 160.602 -31.535  1.00 79.61       BS2
ATOM  33084  OE1 GLN B  76     170.260 161.686 -31.540  1.00 79.61       BS2
ATOM  33085  NE2 GLN B  76     168.355 160.496 -31.656  1.00 79.61       BS2
ATOM  33086  C   GLN B  76     170.655 160.888 -28.322  1.00 82.97       BS2
ATOM  33087  O   GLN B  76     169.922 161.696 -28.887  1.00 82.97       BS2
ATOM  33088  N   ALA B  77     170.726 160.794 -26.999  1.00 69.23       BS2
ATOM  33089  CA  ALA B  77     169.905 161.639 -26.139  1.00 69.23       BS2
ATOM  33090  CB  ALA B  77     168.457 161.174 -26.206  1.00 24.60       BS2
ATOM  33091  C   ALA B  77     170.374 161.668 -24.681  1.00 69.23       BS2
ATOM  33092  O   ALA B  77     169.554 161.693 -23.764  1.00 69.23       BS2
ATOM  33093  N   GLN B  78     171.686 161.661 -24.467  1.00 68.78       BS2
ATOM  33094  CA  GLN B  78     172.229 161.707 -23.114  1.00 68.78       BS2
ATOM  33095  CB  GLN B  78     173.735 161.433 -23.112  1.00105.62       BS2
ATOM  33096  CG  GLN B  78     174.135 160.003 -23.390  1.00105.62       BS2
ATOM  33097  CD  GLN B  78     175.410 159.612 -22.657  1.00105.62       BS2
ATOM  33098  OE1 GLN B  78     176.404 160.342 -22.679  1.00105.62       BS2
ATOM  33099  NE2 GLN B  78     175.387 158.453 -22.005  1.00105.62       BS2
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ATOM  33100  C   GLN B  78     171.990 163.074 -22.476  1.00 68.78       BS2
ATOM  33101  O   GLN B  78     171.484 163.179 -21.364  1.00 68.78       BS2
ATOM  33102  N   ASP B  79     172.368 164.122 -23.195  1.00 81.13       BS2
ATOM  33103  CA  ASP B  79     172.220 165.481 -22.708  1.00 81.13       BS2
ATOM  33104  CB  ASP B  79     172.882 166.441 -23.691  1.00167.34       BS2
ATOM  33105  CG  ASP B  79     174.302 166.025 -24.032  1.00167.34       BS2
ATOM  33106  OD1 ASP B  79     175.133 165.928 -23.103  1.00167.34       BS2
ATOM  33107  OD2 ASP B  79     174.585 165.787 -25.226  1.00167.34       BS2
ATOM  33108  C   ASP B  79     170.758 165.841 -22.507  1.00 81.13       BS2
ATOM  33109  O   ASP B  79     170.361 166.213 -21.403  1.00 81.13       BS2
ATOM  33110  N   ILE B  80     169.965 165.717 -23.571  1.00 74.18       BS2
ATOM  33111  CA  ILE B  80     168.529 166.021 -23.540  1.00 74.18       BS2
ATOM  33112  CB  ILE B  80     167.785 165.238 -24.626  1.00101.37       BS2
ATOM  33113  CG2 ILE B  80     166.358 165.747 -24.749  1.00101.37       BS2
ATOM  33114  CG1 ILE B  80     168.527 165.387 -25.954  1.00101.37       BS2
ATOM  33115  CD1 ILE B  80     168.085 164.410 -27.023  1.00101.37       BS2
ATOM  33116  C   ILE B  80     167.907 165.673 -22.190  1.00 74.18       BS2
ATOM  33117  O   ILE B  80     166.977 166.334 -21.724  1.00 74.18       BS2
ATOM  33118  N   VAL B  81     168.427 164.619 -21.575  1.00 62.99       BS2
ATOM  33119  CA  VAL B  81     167.960 164.182 -20.274  1.00 62.99       BS2
ATOM  33120  CB  VAL B  81     168.442 162.756 -19.975  1.00 52.30       BS2
ATOM  33121  CG1 VAL B  81     168.295 162.437 -18.480  1.00 52.30       BS2
ATOM  33122  CG2 VAL B  81     167.652 161.778 -20.824  1.00 52.30       BS2
ATOM  33123  C   VAL B  81     168.473 165.126 -19.196  1.00 62.99       BS2
ATOM  33124  O   VAL B  81     167.691 165.834 -18.575  1.00 62.99       BS2
ATOM  33125  N   ARG B  82     169.783 165.136 -18.979  1.00 56.11       BS2
ATOM  33126  CA  ARG B  82     170.386 166.000 -17.972  1.00 56.11       BS2
ATOM  33127  CB  ARG B  82     171.869 166.212 -18.284  1.00120.98       BS2
ATOM  33128  CG  ARG B  82     172.311 167.667 -18.294  1.00120.98       BS2
ATOM  33129  CD  ARG B  82     173.787 167.774 -17.991  1.00120.98       BS2
ATOM  33130  NE  ARG B  82     174.085 167.218 -16.675  1.00120.98       BS2
ATOM  33131  CZ  ARG B  82     175.301 167.160 -16.142  1.00120.98       BS2
ATOM  33132  NH1 ARG B  82     176.348 167.626 -16.811  1.00120.98       BS2
ATOM  33133  NH2 ARG B  82     175.471 166.637 -14.937  1.00120.98       BS2
ATOM  33134  C   ARG B  82     169.669 167.347 -17.884  1.00 56.11       BS2
ATOM  33135  O   ARG B  82     169.466 167.882 -16.793  1.00 56.11       BS2
ATOM  33136  N   MET B  83     169.293 167.898 -19.034  1.00 76.39       BS2
ATOM  33137  CA  MET B  83     168.583 169.171 -19.064  1.00 76.39       BS2
ATOM  33138  CB  MET B  83     168.263 169.574 -20.505  1.00139.90       BS2
ATOM  33139  CG  MET B  83     169.446 170.096 -21.279  1.00139.90       BS2
ATOM  33140  SD  MET B  83     170.137 171.560 -20.507  1.00139.90       BS2
ATOM  33141  CE  MET B  83     169.068 172.842 -21.170  1.00139.90       BS2
ATOM  33142  C   MET B  83     167.284 169.026 -18.286  1.00 76.39       BS2
ATOM  33143  O   MET B  83     167.227 169.300 -17.086  1.00 76.39       BS2
ATOM  33144  N   GLU B  84     166.243 168.589 -18.988  1.00 38.15       BS2
ATOM  33145  CA  GLU B  84     164.931 168.387 -18.395  1.00 38.15       BS2
ATOM  33146  CB  GLU B  84     164.090 167.513 -19.321  1.00 89.63       BS2
ATOM  33147  CG  GLU B  84     164.123 167.955 -20.756  1.00 89.63       BS2
ATOM  33148  CD  GLU B  84     163.925 169.439 -20.885  1.00 89.63       BS2
ATOM  33149  OE1 GLU B  84     162.890 169.948 -20.408  1.00 89.63       BS2
ATOM  33150  OE2 GLU B  84     164.810 170.100 -21.457  1.00 89.63       BS2
ATOM  33151  C   GLU B  84     165.031 167.722 -17.022  1.00 38.15       BS2
ATOM  33152  O   GLU B  84     164.299 168.070 -16.103  1.00 38.15       BS2
ATOM  33153  N   ALA B  85     165.933 166.755 -16.897  1.00 81.38       BS2
ATOM  33154  CA  ALA B  85     166.126 166.047 -15.639  1.00 81.38       BS2
ATOM  33155  CB  ALA B  85     167.201 164.979 -15.800  1.00121.77       BS2
ATOM  33156  C   ALA B  85     166.515 167.026 -14.535  1.00 81.38       BS2
ATOM  33157  O   ALA B  85     166.096 166.879 -13.386  1.00 81.38       BS2
ATOM  33158  N   GLU B  86     167.327 168.018 -14.884  1.00 63.62       BS2
ATOM  33159  CA  GLU B  86     167.749 169.021 -13.917  1.00 63.62       BS2
ATOM  33160  CB  GLU B  86     169.042 169.703 -14.368  1.00150.38       BS2
ATOM  33161  CG  GLU B  86     170.292 168.853 -14.254  1.00150.38       BS2
ATOM  33162  CD  GLU B  86     171.517 169.561 -14.805  1.00150.38       BS2
ATOM  33163  OE1 GLU B  86     171.538 169.866 -16.018  1.00150.38       BS2
ATOM  33164  OE2 GLU B  86     172.457 169.816 -14.025  1.00150.38       BS2
ATOM  33165  C   GLU B  86     166.649 170.063 -13.810  1.00 63.62       BS2
ATOM  33166  O   GLU B  86     166.346 170.549 -12.719  1.00 63.62       BS2
ATOM  33167  N   ARG B  87     166.059 170.397 -14.957  1.00 81.50       BS2
ATOM  33168  CA  ARG B  87     164.987 171.385 -15.044  1.00 81.50       BS2
ATOM  33169  CB  ARG B  87     164.293 171.272 -16.402  1.00 80.03       BS2
ATOM  33170  CG  ARG B  87     164.441 172.502 -17.280  1.00 80.03       BS2
ATOM  33171  CD  ARG B  87     163.478 173.596 -16.856  1.00 80.03       BS2
ATOM  33172  NE  ARG B  87     162.088 173.221 -17.109  1.00 80.03       BS2
ATOM  33173  CZ  ARG B  87     161.602 172.933 -18.313  1.00 80.03       BS2
ATOM  33174  NH1 ARG B  87     162.395 172.978 -19.376  1.00 80.03       BS2
ATOM  33175  NH2 ARG B  87     160.326 172.602 -18.459  1.00 80.03       BS2
ATOM  33176  C   ARG B  87     163.974 171.215 -13.917  1.00 81.50       BS2
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ATOM  33177  O   ARG B  87     163.374 172.184 -13.457  1.00 81.50      BS2
ATOM  33178  N   ALA B  88     163.785 169.974 -13.483  1.00 54.42      BS2
ATOM  33179  CA  ALA B  88     162.873 169.664 -12.391  1.00 54.42      BS2
ATOM  33180  CB  ALA B  88     161.800 168.705 -12.863  1.00 26.11      BS2
ATOM  33181  C   ALA B  88     163.728 169.027 -11.301  1.00 54.42      BS2
ATOM  33182  O   ALA B  88     164.865 168.634 -11.559  1.00 54.42      BS2
ATOM  33183  N   GLY B  89     163.203 168.925 -10.087  1.00 53.60      BS2
ATOM  33184  CA  GLY B  89     163.997 168.343  -9.018  1.00 53.60      BS2
ATOM  33185  C   GLY B  89     164.454 166.923  -9.310  1.00 53.60      BS2
ATOM  33186  O   GLY B  89     165.470 166.460  -8.792  1.00 53.60      BS2
ATOM  33187  N   MET B  90     163.697 166.238 -10.156  1.00 69.95      BS2
ATOM  33188  CA  MET B  90     163.964 164.855 -10.529  1.00 69.95      BS2
ATOM  33189  CB  MET B  90     163.171 164.515 -11.793  1.00156.78      BS2
ATOM  33190  CG  MET B  90     161.860 165.273 -11.916  1.00156.78      BS2
ATOM  33191  SD  MET B  90     161.018 165.440 -10.335  1.00156.78      BS2
ATOM  33192  CE  MET B  90     160.195 163.884 -10.226  1.00156.78      BS2
ATOM  33193  C   MET B  90     165.435 164.470 -10.740  1.00 69.95      BS2
ATOM  33194  O   MET B  90     166.239 165.260 -11.243  1.00 69.95      BS2
ATOM  33195  N   PRO B  91     165.800 163.238 -10.333  1.00 94.02      BS2
ATOM  33196  CD  PRO B  91     165.012 162.387  -9.429  1.00104.32      BS2
ATOM  33197  CA  PRO B  91     167.157 162.702 -10.466  1.00 94.02      BS2
ATOM  33198  CB  PRO B  91     167.195 161.565  -9.442  1.00104.32      BS2
ATOM  33199  CG  PRO B  91     166.079 161.875  -8.504  1.00104.32      BS2
ATOM  33200  C   PRO B  91     167.291 162.163 -11.878  1.00 94.02      BS2
ATOM  33201  O   PRO B  91     166.404 162.370 -12.711  1.00 94.02      BS2
ATOM  33202  N   TYR B  92     168.387 161.458 -12.141  1.00 76.09      BS2
ATOM  33203  CA  TYR B  92     168.610 160.882 -13.460  1.00 76.09      BS2
ATOM  33204  CB  TYR B  92     168.709 161.996 -14.519  1.00 94.85      BS2
ATOM  33205  CG  TYR B  92     169.936 162.874 -14.382  1.00 94.85      BS2
ATOM  33206  CD1 TYR B  92     171.203 162.386 -14.677  1.00 94.85      BS2
ATOM  33207  CE1 TYR B  92     172.339 163.165 -14.500  1.00 94.85      BS2
ATOM  33208  CD2 TYR B  92     169.833 164.176 -13.911  1.00 94.85      BS2
ATOM  33209  CE2 TYR B  92     170.965 164.967 -13.729  1.00 94.85      BS2
ATOM  33210  CZ  TYR B  92     172.214 164.452 -14.023  1.00 94.85      BS2
ATOM  33211  OH  TYR B  92     173.340 165.211 -13.811  1.00 94.85      BS2
ATOM  33212  C   TYR B  92     169.859 160.020 -13.540  1.00 76.09      BS2
ATOM  33213  O   TYR B  92     170.817 160.213 -12.785  1.00 76.09      BS2
ATOM  33214  N   VAL B  93     169.815 159.049 -14.448  1.00 44.35      BS2
ATOM  33215  CA  VAL B  93     170.957 158.184 -14.737  1.00 44.35      BS2
ATOM  33216  CB  VAL B  93     170.723 156.715 -14.338  1.00 66.01      BS2
ATOM  33217  CG1 VAL B  93     171.845 155.849 -14.901  1.00 66.01      BS2
ATOM  33218  CG2 VAL B  93     170.694 156.590 -12.815  1.00 66.01      BS2
ATOM  33219  C   VAL B  93     171.081 158.324 -16.253  1.00 44.35      BS2
ATOM  33220  O   VAL B  93     170.200 157.880 -17.013  1.00 44.35      BS2
ATOM  33221  N   ASN B  94     172.168 158.981 -16.669  1.00 63.17      BS2
ATOM  33222  CA  ASN B  94     172.428 159.284 -18.072  1.00 63.17      BS2
ATOM  33223  CB  ASN B  94     172.443 160.796 -18.253  1.00111.11      BS2
ATOM  33224  CG  ASN B  94     172.768 161.194 -19.657  1.00111.11      BS2
ATOM  33225  OD1 ASN B  94     172.183 160.673 -20.602  1.00111.11      BS2
ATOM  33226  ND2 ASN B  94     173.702 162.122 -19.812  1.00111.11      BS2
ATOM  33227  C   ASN B  94     173.688 158.698 -18.701  1.00 63.17      BS2
ATOM  33228  O   ASN B  94     173.681 158.335 -19.877  1.00 63.17      BS2
ATOM  33229  N   GLN B  95     174.773 158.620 -17.940  1.00 78.51      BS2
ATOM  33230  CA  GLN B  95     176.002 158.060 -18.485  1.00 78.51      BS2
ATOM  33231  CB  GLN B  95     177.178 158.314 -17.543  1.00188.19      BS2
ATOM  33232  CG  GLN B  95     178.533 158.026 -18.176  1.00188.19      BS2
ATOM  33233  CD  GLN B  95     178.735 158.762 -19.491  1.00188.19      BS2
ATOM  33234  OE1 GLN B  95     178.636 159.987 -19.551  1.00188.19      BS2
ATOM  33235  NE2 GLN B  95     179.023 158.014 -20.551  1.00188.19      BS2
ATOM  33236  C   GLN B  95     175.796 156.562 -18.694  1.00 78.51      BS2
ATOM  33237  O   GLN B  95     175.666 156.106 -19.832  1.00 78.51      BS2
ATOM  33238  N   ARG B  96     175.764 155.796 -17.602  1.00 63.77      BS2
ATOM  33239  CA  ARG B  96     175.541 154.353 -17.702  1.00 63.77      BS2
ATOM  33240  CB  ARG B  96     176.858 153.591 -17.876  1.00201.26      BS2
ATOM  33241  CG  ARG B  96     176.645 152.102 -18.153  1.00201.26      BS2
ATOM  33242  CD  ARG B  96     175.511 151.910 -19.164  1.00201.26      BS2
ATOM  33243  NE  ARG B  96     175.261 150.512 -19.505  1.00201.26      BS2
ATOM  33244  CZ  ARG B  96     174.201 150.093 -20.192  1.00201.26      BS2
ATOM  33245  NH1 ARG B  96     173.291 150.966 -20.606  1.00201.26      BS2
ATOM  33246  NH2 ARG B  96     174.054 148.805 -20.475  1.00201.26      BS2
ATOM  33247  C   ARG B  96     174.789 153.794 -16.507  1.00 63.77      BS2
ATOM  33248  O   ARG B  96     175.140 154.056 -15.363  1.00 63.77      BS2
ATOM  33249  N   TRP B  97     173.759 153.005 -16.791  1.00 30.12      BS2
ATOM  33250  CA  TRP B  97     172.924 152.422 -15.751  1.00 30.12      BS2
ATOM  33251  CB  TRP B  97     171.615 151.902 -16.361  1.00 69.99      BS2
ATOM  33252  CG  TRP B  97     170.498 151.914 -15.379  1.00 69.99      BS2
ATOM  33253  CD2 TRP B  97     170.214 150.910 -14.419  1.00 69.99      BS2
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ATOM  33254  CE2 TRP B  97     169.156 151.390 -13.609  1.00 69.99       BS2
ATOM  33255  CE3 TRP B  97     170.753 149.650 -14.155  1.00 69.99       BS2
ATOM  33256  CD1 TRP B  97     169.618 152.941 -15.133  1.00 69.99       BS2
ATOM  33257  NE1 TRP B  97     168.810 152.633 -14.066  1.00 69.99       BS2
ATOM  33258  CZ2 TRP B  97     168.633 150.649 -12.560  1.00 69.99       BS2
ATOM  33259  CZ3 TRP B  97     170.235 148.916 -13.115  1.00 69.99       BS2
ATOM  33260  CH2 TRP B  97     169.183 149.417 -12.327  1.00 69.99       BS2
ATOM  33261  C   TRP B  97     173.603 151.300 -14.981  1.00 30.12       BS2
ATOM  33262  O   TRP B  97     173.549 150.147 -15.395  1.00 30.12       BS2
ATOM  33263  N   LEU B  98     174.224 151.626 -13.852  1.00 40.11       BS2
ATOM  33264  CA  LEU B  98     174.907 150.603 -13.056  1.00 40.11       BS2
ATOM  33265  CB  LEU B  98     175.568 151.217 -11.812  1.00 39.65       BS2
ATOM  33266  CG  LEU B  98     176.241 152.587 -11.938  1.00 39.65       BS2
ATOM  33267  CD1 LEU B  98     177.362 152.689 -10.926  1.00 39.65       BS2
ATOM  33268  CD2 LEU B  98     176.791 152.777 -13.318  1.00 39.65       BS2
ATOM  33269  C   LEU B  98     173.970 149.471 -12.626  1.00 40.11       BS2
ATOM  33270  O   LEU B  98     172.919 149.694 -12.025  1.00 40.11       BS2
ATOM  33271  N   GLY B  99     174.360 148.244 -12.930  1.00 40.10       BS2
ATOM  33272  CA  GLY B  99     173.520 147.127 -12.565  1.00 40.10       BS2
ATOM  33273  C   GLY B  99     173.158 147.061 -11.094  1.00 40.10       BS2
ATOM  33274  O   GLY B  99     174.028 146.892 -10.225  1.00 40.10       BS2
ATOM  33275  N   GLY B 100     171.866 147.193 -10.810  1.00 73.78       BS2
ATOM  33276  CA  GLY B 100     171.406 147.111  -9.435  1.00 73.78       BS2
ATOM  33277  C   GLY B 100     171.070 148.415  -8.740  1.00 73.78       BS2
ATOM  33278  O   GLY B 100     170.772 148.415  -7.547  1.00 73.78       BS2
ATOM  33279  N   MET B 101     171.117 149.527  -9.465  1.00 51.67       BS2
ATOM  33280  CA  MET B 101     170.803 150.805  -8.854  1.00 51.67       BS2
ATOM  33281  CB  MET B 101     170.578 151.856  -9.939  1.00 44.72       BS2
ATOM  33282  CG  MET B 101     171.798 152.019 -10.846  1.00 44.72       BS2
ATOM  33283  SD  MET B 101     171.860 153.487 -11.929  1.00 44.72       BS2
ATOM  33284  CE  MET B 101     173.197 154.395 -11.137  1.00 44.72       BS2
ATOM  33285  C   MET B 101     169.568 150.622  -7.976  1.00 51.67       BS2
ATOM  33286  O   MET B 101     169.682 150.504  -6.758  1.00 51.67       BS2
ATOM  33287  N   LEU B 102     168.394 150.557  -8.589  1.00 45.38       BS2
ATOM  33288  CA  LEU B 102     167.161 150.372  -7.831  1.00 45.38       BS2
ATOM  33289  CB  LEU B 102     165.967 150.271  -8.773  1.00 37.78       BS2
ATOM  33290  CG  LEU B 102     165.517 151.540  -9.472  1.00 37.78       BS2
ATOM  33291  CD1 LEU B 102     166.675 152.141 -10.225  1.00 37.78       BS2
ATOM  33292  CD2 LEU B 102     164.390 151.205 -10.414  1.00 37.78       BS2
ATOM  33293  C   LEU B 102     167.179 149.118  -6.966  1.00 45.38       BS2
ATOM  33294  O   LEU B 102     167.024 149.172  -5.748  1.00 45.38       BS2
ATOM  33295  N   THR B 103     167.358 147.983  -7.619  1.00 20.98       BS2
ATOM  33296  CA  THR B 103     167.359 146.700  -6.944  1.00 20.98       BS2
ATOM  33297  CB  THR B 103     167.382 145.568  -7.973  1.00 40.25       BS2
ATOM  33298  OG1 THR B 103     166.171 145.619  -8.740  1.00 40.25       BS2
ATOM  33299  CG2 THR B 103     167.485 144.222  -7.293  1.00 40.25       BS2
ATOM  33300  C   THR B 103     168.494 146.526  -5.961  1.00 20.98       BS2
ATOM  33301  O   THR B 103     168.591 145.509  -5.290  1.00 20.98       BS2
ATOM  33302  N   ASN B 104     169.368 147.514  -5.874  1.00 88.52       BS2
ATOM  33303  CA  ASN B 104     170.457 147.424  -4.926  1.00 88.52       BS2
ATOM  33304  CB  ASN B 104     171.678 146.759  -5.547  1.00 58.26       BS2
ATOM  33305  CG  ASN B 104     172.588 146.157  -4.504  1.00 58.26       BS2
ATOM  33306  OD1 ASN B 104     172.372 146.339  -3.308  1.00 58.26       BS2
ATOM  33307  ND2 ASN B 104     173.613 145.435  -4.945  1.00 58.26       BS2
ATOM  33308  C   ASN B 104     170.800 148.821  -4.464  1.00 88.52       BS2
ATOM  33309  O   ASN B 104     171.965 149.219  -4.449  1.00 88.52       BS2
ATOM  33310  N   PHE B 105     169.757 149.564  -4.099  1.00 34.55       BS2
ATOM  33311  CA  PHE B 105     169.896 150.923  -3.612  1.00 34.55       BS2
ATOM  33312  CB  PHE B 105     168.534 151.484  -3.246  1.00 47.53       BS2
ATOM  33313  CG  PHE B 105     168.425 152.956  -3.443  1.00 47.53       BS2
ATOM  33314  CD1 PHE B 105     168.082 153.478  -4.686  1.00 47.53       BS2
ATOM  33315  CD2 PHE B 105     168.666 153.829  -2.394  1.00 47.53       BS2
ATOM  33316  CE1 PHE B 105     167.973 154.857  -4.888  1.00 47.53       BS2
ATOM  33317  CE2 PHE B 105     168.562 155.207  -2.582  1.00 47.53       BS2
ATOM  33318  CZ  PHE B 105     168.211 155.720  -3.839  1.00 47.53       BS2
ATOM  33319  C   PHE B 105     170.780 150.909  -2.373  1.00 34.55       BS2
ATOM  33320  O   PHE B 105     171.788 151.609  -2.307  1.00 34.55       BS2
ATOM  33321  N   LYS B 106     170.404 150.097  -1.393  1.00 53.62       BS2
ATOM  33322  CA  LYS B 106     171.180 150.011  -0.170  1.00 53.62       BS2
ATOM  33323  CB  LYS B 106     170.827 148.740   0.606  1.00201.26       BS2
ATOM  33324  CG  LYS B 106     171.615 148.581   1.903  1.00201.26       BS2
ATOM  33325  CD  LYS B 106     171.224 147.319   2.654  1.00201.26       BS2
ATOM  33326  CE  LYS B 106     172.003 147.188   3.955  1.00201.26       BS2
ATOM  33327  NZ  LYS B 106     171.590 145.987   4.735  1.00201.26       BS2
ATOM  33328  C   LYS B 106     172.679 150.024  -0.460  1.00 53.62       BS2
ATOM  33329  O   LYS B 106     173.465 150.463   0.374  1.00 53.62       BS2
ATOM  33330  N   THR B 107     173.077 149.557  -1.642  1.00 42.77       BS2
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ATOM  33331  CA  THR B 107     174.493 149.506  -2.004  1.00 42.77       BS2
ATOM  33332  CB  THR B 107     174.867 148.113  -2.580  1.00 40.43       BS2
ATOM  33333  OG1 THR B 107     174.797 147.127  -1.538  1.00 40.43       BS2
ATOM  33334  CG2 THR B 107     176.278 148.131  -3.161  1.00 40.43       BS2
ATOM  33335  C   THR B 107     174.941 150.601  -2.975  1.00 42.77       BS2
ATOM  33336  O   THR B 107     175.915 151.305  -2.704  1.00 42.77       BS2
ATOM  33337  N   ILE B 108     174.256 150.749  -4.103  1.00 27.95       BS2
ATOM  33338  CA  ILE B 108     174.637 151.795  -5.045  1.00 27.95       BS2
ATOM  33339  CB  ILE B 108     173.692 151.850  -6.267  1.00 60.03       BS2
ATOM  33340  CG2 ILE B 108     174.214 152.821  -7.315  1.00 60.03       BS2
ATOM  33341  CG1 ILE B 108     173.617 150.471  -6.896  1.00 60.03       BS2
ATOM  33342  CD1 ILE B 108     174.974 149.831  -7.037  1.00 60.03       BS2
ATOM  33343  C   ILE B 108     174.572 153.123  -4.303  1.00 27.95       BS2
ATOM  33344  O   ILE B 108     175.156 154.117  -4.727  1.00 27.95       BS2
ATOM  33345  N   SER B 109     173.846 153.139  -3.191  1.00 77.58       BS2
ATOM  33346  CA  SER B 109     173.742 154.346  -2.385  1.00 77.58       BS2
ATOM  33347  CB  SER B 109     172.681 154.176  -1.298  1.00201.26       BS2
ATOM  33348  OG  SER B 109     173.016 153.106  -0.431  1.00201.26       BS2
ATOM  33349  C   SER B 109     175.106 154.570  -1.742  1.00 77.58       BS2
ATOM  33350  O   SER B 109     175.656 155.665  -1.812  1.00 77.58       BS2
ATOM  33351  N   GLN B 110     175.644 153.519  -1.123  1.00 55.47       BS2
ATOM  33352  CA  GLN B 110     176.946 153.586  -0.478  1.00 55.47       BS2
ATOM  33353  CB  GLN B 110     177.464 152.187  -0.169  1.00178.77       BS2
ATOM  33354  CG  GLN B 110     176.630 151.444   0.844  1.00178.77       BS2
ATOM  33355  CD  GLN B 110     177.248 150.122   1.233  1.00178.77       BS2
ATOM  33356  OE1 GLN B 110     177.428 149.238   0.395  1.00178.77       BS2
ATOM  33357  NE2 GLN B 110     177.584 149.979   2.511  1.00178.77       BS2
ATOM  33358  C   GLN B 110     177.919 154.296  -1.401  1.00 55.47       BS2
ATOM  33359  O   GLN B 110     178.813 155.004  -0.941  1.00 55.47       BS2
ATOM  33360  N   ARG B 111     177.743 154.106  -2.706  1.00 74.53       BS2
ATOM  33361  CA  ARG B 111     178.602 154.746  -3.697  1.00 74.53       BS2
ATOM  33362  CB  ARG B 111     178.340 154.163  -5.077  1.00 82.94       BS2
ATOM  33363  CG  ARG B 111     179.038 152.857  -5.327  1.00 82.94       BS2
ATOM  33364  CD  ARG B 111     180.519 153.039  -5.169  1.00 82.94       BS2
ATOM  33365  NE  ARG B 111     180.928 152.897  -3.781  1.00 82.94       BS2
ATOM  33366  CZ  ARG B 111     182.169 153.097  -3.357  1.00 82.94       BS2
ATOM  33367  NH1 ARG B 111     183.112 153.457  -4.223  1.00 82.94       BS2
ATOM  33368  NH2 ARG B 111     182.471 152.911  -2.076  1.00 82.94       BS2
ATOM  33369  C   ARG B 111     178.395 156.255  -3.742  1.00 74.53       BS2
ATOM  33370  O   ARG B 111     179.362 157.019  -3.770  1.00 74.53       BS2
ATOM  33371  N   VAL B 112     177.134 156.682  -3.775  1.00 52.25       BS2
ATOM  33372  CA  VAL B 112     176.819 158.108  -3.776  1.00 52.25       BS2
ATOM  33373  CB  VAL B 112     175.298 158.354  -3.977  1.00 67.82       BS2
ATOM  33374  CG1 VAL B 112     175.002 159.852  -4.059  1.00 67.82       BS2
ATOM  33375  CG2 VAL B 112     174.831 157.656  -5.250  1.00 67.82       BS2
ATOM  33376  C   VAL B 112     177.263 158.616  -2.402  1.00 52.25       BS2
ATOM  33377  O   VAL B 112     177.734 159.736  -2.261  1.00 52.25       BS2
ATOM  33378  N   HIS B 113     177.128 157.765  -1.393  1.00 57.37       BS2
ATOM  33379  CA  HIS B 113     177.541 158.109  -0.042  1.00 57.37       BS2
ATOM  33380  CB  HIS B 113     177.378 156.902   0.882  1.00161.67       BS2
ATOM  33381  CG  HIS B 113     176.406 157.121   1.996  1.00161.67       BS2
ATOM  33382  CD2 HIS B 113     175.256 156.482   2.313  1.00161.67       BS2
ATOM  33383  ND1 HIS B 113     176.574 158.104   2.946  1.00161.67       BS2
ATOM  33384  CE1 HIS B 113     175.569 158.061   3.801  1.00161.67       BS2
ATOM  33385  NE2 HIS B 113     174.755 157.086   3.440  1.00161.67       BS2
ATOM  33386  C   HIS B 113     179.006 158.520  -0.075  1.00 57.37       BS2
ATOM  33387  O   HIS B 113     179.338 159.694   0.086  1.00 57.37       BS2
ATOM  33388  N   ARG B 114     179.878 157.541  -0.288  1.00 93.62       BS2
ATOM  33389  CA  ARG B 114     181.316 157.774  -0.352  1.00 93.62       BS2
ATOM  33390  CB  ARG B 114     181.996 156.566  -0.991  1.00 91.93       BS2
ATOM  33391  CG  ARG B 114     183.137 155.970  -0.186  1.00 91.93       BS2
ATOM  33392  CD  ARG B 114     184.402 156.801  -0.275  1.00 91.93       BS2
ATOM  33393  NE  ARG B 114     185.573 156.014   0.107  1.00 91.93       BS2
ATOM  33394  CZ  ARG B 114     186.822 156.471   0.099  1.00 91.93       BS2
ATOM  33395  NH1 ARG B 114     187.067 157.721  -0.270  1.00 91.93       BS2
ATOM  33396  NH2 ARG B 114     187.829 155.676   0.449  1.00 91.93       BS2
ATOM  33397  C   ARG B 114     181.663 159.041  -1.139  1.00 93.62       BS2
ATOM  33398  O   ARG B 114     182.505 159.828  -0.708  1.00 93.62       BS2
ATOM  33399  N   LEU B 115     181.011 159.232  -2.285  1.00 68.23       BS2
ATOM  33400  CA  LEU B 115     181.249 160.403  -3.125  1.00 68.23       BS2
ATOM  33401  CB  LEU B 115     180.097 160.618  -4.101  1.00 31.30       BS2
ATOM  33402  CG  LEU B 115     180.136 161.988  -4.796  1.00 31.30       BS2
ATOM  33403  CD1 LEU B 115     181.510 162.183  -5.388  1.00 31.30       BS2
ATOM  33404  CD2 LEU B 115     179.093 162.090  -5.892  1.00 31.30       BS2
ATOM  33405  C   LEU B 115     181.425 161.683  -2.330  1.00 68.23       BS2
ATOM  33406  O   LEU B 115     182.498 162.294  -2.339  1.00 68.23       BS2
ATOM  33407  N   GLU B 116     180.350 162.103  -1.672  1.00 64.47       BS2
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ATOM  33408  CA  GLU B 116     180.378 163.312  -0.870  1.00 64.47       BS2
ATOM  33409  CB  GLU B 116     179.044 163.476  -0.144  1.00135.26       BS2
ATOM  33410  CG  GLU B 116     177.864 163.470  -1.107  1.00135.26       BS2
ATOM  33411  CD  GLU B 116     176.523 163.619  -0.419  1.00135.26       BS2
ATOM  33412  OE1 GLU B 116     176.224 162.823   0.499  1.00135.26       BS2
ATOM  33413  OE2 GLU B 116     175.761 164.530  -0.808  1.00135.26       BS2
ATOM  33414  C   GLU B 116     181.536 163.219   0.114  1.00 64.47       BS2
ATOM  33415  O   GLU B 116     182.283 164.184   0.298  1.00 64.47       BS2
ATOM  33416  N   GLU B 117     181.708 162.044   0.715  1.00 70.80       BS2
ATOM  33417  CA  GLU B 117     182.792 161.847   1.666  1.00 70.80       BS2
ATOM  33418  CB  GLU B 117     182.799 160.416   2.206  1.00177.13       BS2
ATOM  33419  CG  GLU B 117     183.878 160.193   3.255  1.00177.13       BS2
ATOM  33420  CD  GLU B 117     183.857 158.802   3.844  1.00177.13       BS2
ATOM  33421  OE1 GLU B 117     183.922 157.828   3.066  1.00177.13       BS2
ATOM  33422  OE2 GLU B 117     183.782 158.686   5.086  1.00177.13       BS2
ATOM  33423  C   GLU B 117     184.152 162.168   1.047  1.00 70.80       BS2
ATOM  33424  O   GLU B 117     185.160 162.231   1.748  1.00 70.80       BS2
ATOM  33425  N   LEU B 118     184.188 162.358  -0.267  1.00101.62       BS2
ATOM  33426  CA  LEU B 118     185.438 162.705  -0.930  1.00101.62       BS2
ATOM  33427  CB  LEU B 118     185.667 161.873  -2.191  1.00 59.87       BS2
ATOM  33428  CG  LEU B 118     186.175 160.443  -1.984  1.00 59.87       BS2
ATOM  33429  CD1 LEU B 118     186.569 159.857  -3.323  1.00 59.87       BS2
ATOM  33430  CD2 LEU B 118     187.370 160.443  -1.053  1.00 59.87       BS2
ATOM  33431  C   LEU B 118     185.376 164.164  -1.304  1.00101.62       BS2
ATOM  33432  O   LEU B 118     186.374 164.879  -1.229  1.00101.62       BS2
ATOM  33433  N   GLU B 119     184.194 164.608  -1.707  1.00 62.56       BS2
ATOM  33434  CA  GLU B 119     184.016 166.000  -2.079  1.00 62.56       BS2
ATOM  33435  CB  GLU B 119     182.556 166.265  -2.426  1.00147.24       BS2
ATOM  33436  CG  GLU B 119     182.078 165.500  -3.637  1.00147.24       BS2
ATOM  33437  CD  GLU B 119     180.607 165.708  -3.897  1.00147.24       BS2
ATOM  33438  OE1 GLU B 119     179.790 165.274  -3.057  1.00147.24       BS2
ATOM  33439  OE2 GLU B 119     180.268 166.311  -4.937  1.00147.24       BS2
ATOM  33440  C   GLU B 119     184.442 166.873  -0.907  1.00 62.56       BS2
ATOM  33441  O   GLU B 119     184.893 168.002  -1.095  1.00 62.56       BS2
ATOM  33442  N   ALA B 120     184.298 166.328   0.299  1.00124.62       BS2
ATOM  33443  CA  ALA B 120     184.661 167.028   1.526  1.00124.62       BS2
ATOM  33444  CB  ALA B 120     184.162 166.260   2.729  1.00 49.13       BS2
ATOM  33445  C   ALA B 120     186.166 167.200   1.623  1.00124.62       BS2
ATOM  33446  O   ALA B 120     186.671 168.321   1.632  1.00124.62       BS2
ATOM  33447  N   LEU B 121     186.882 166.083   1.705  1.00 89.09       BS2
ATOM  33448  CA  LEU B 121     188.334 166.122   1.796  1.00 89.09       BS2
ATOM  33449  CB  LEU B 121     188.912 164.706   1.747  1.00177.88       BS2
ATOM  33450  CG  LEU B 121     188.546 163.768   2.899  1.00177.88       BS2
ATOM  33451  CD1 LEU B 121     189.252 162.433   2.710  1.00177.88       BS2
ATOM  33452  CD2 LEU B 121     188.946 164.398   4.224  1.00177.88       BS2
ATOM  33453  C   LEU B 121     188.929 166.955   0.665  1.00 89.09       BS2
ATOM  33454  O   LEU B 121     190.064 167.418   0.764  1.00 89.09       BS2
ATOM  33455  N   PHE B 122     188.164 167.146  -0.408  1.00110.94       BS2
ATOM  33456  CA  PHE B 122     188.635 167.932  -1.545  1.00110.94       BS2
ATOM  33457  CB  PHE B 122     188.373 167.184  -2.855  1.00157.13       BS2
ATOM  33458  CG  PHE B 122     189.365 166.088  -3.129  1.00157.13       BS2
ATOM  33459  CD1 PHE B 122     189.482 165.003  -2.262  1.00157.13       BS2
ATOM  33460  CD2 PHE B 122     190.197 166.149  -4.243  1.00157.13       BS2
ATOM  33461  CE1 PHE B 122     190.415 163.996  -2.502  1.00157.13       BS2
ATOM  33462  CE2 PHE B 122     191.133 165.148  -4.491  1.00157.13       BS2
ATOM  33463  CZ  PHE B 122     191.242 164.068  -3.618  1.00157.13       BS2
ATOM  33464  C   PHE B 122     188.028 169.330  -1.605  1.00110.94       BS2
ATOM  33465  O   PHE B 122     187.283 169.672  -2.526  1.00110.94       BS2
ATOM  33466  N   ALA B 123     188.379 170.128  -0.604  1.00161.73       BS2
ATOM  33467  CA  ALA B 123     187.930 171.507  -0.450  1.00161.73       BS2
ATOM  33468  CB  ALA B 123     186.416 171.613  -0.663  1.00 57.29       BS2
ATOM  33469  C   ALA B 123     188.294 171.871   0.983  1.00161.73       BS2
ATOM  33470  O   ALA B 123     188.087 172.999   1.433  1.00161.73       BS2
ATOM  33471  N   SER B 124     188.851 170.887   1.685  1.00 86.41       BS2
ATOM  33472  CA  SER B 124     189.262 171.034   3.077  1.00 86.41       BS2
ATOM  33473  CB  SER B 124     188.887 169.774   3.864  1.00 87.04       BS2
ATOM  33474  OG  SER B 124     189.823 168.733   3.636  1.00 87.04       BS2
ATOM  33475  C   SER B 124     190.773 171.258   3.173  1.00 86.41       BS2
ATOM  33476  O   SER B 124     191.450 171.424   2.158  1.00 86.41       BS2
ATOM  33477  N   PRO B 125     191.317 171.288   4.403  1.00201.26       BS2
ATOM  33478  CD  PRO B 125     190.634 171.395   5.707  1.00201.26       BS2
ATOM  33479  CA  PRO B 125     192.759 171.491   4.564  1.00201.26       BS2
ATOM  33480  CB  PRO B 125     192.863 172.052   5.975  1.00201.26       BS2
ATOM  33481  CG  PRO B 125     191.785 171.303   6.689  1.00201.26       BS2
ATOM  33482  C   PRO B 125     193.503 170.167   4.414  1.00201.26       BS2
ATOM  33483  O   PRO B 125     194.731 170.135   4.321  1.00201.26       BS2
ATOM  33484  N   GLU B 126     192.743 169.077   4.394  1.00128.86       BS2
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ATOM  33485  CA  GLU B 126     193.313 167.743   4.262  1.00128.86       BS2
ATOM  33486  CB  GLU B 126     192.389 166.714   4.916  1.00201.26       BS2
ATOM  33487  CG  GLU B 126     192.179 166.935   6.406  1.00201.26       BS2
ATOM  33488  CD  GLU B 126     191.230 165.922   7.018  1.00201.26       BS2
ATOM  33489  OE1 GLU B 126     190.038 165.920   6.643  1.00201.26       BS2
ATOM  33490  OE2 GLU B 126     191.678 165.127   7.872  1.00201.26       BS2
ATOM  33491  C   GLU B 126     193.544 167.377   2.800  1.00128.86       BS2
ATOM  33492  O   GLU B 126     193.994 166.271   2.492  1.00128.86       BS2
ATOM  33493  N   ILE B 127     193.231 168.306   1.900  1.00201.26       BS2
ATOM  33494  CA  ILE B 127     193.421 168.071   0.472  1.00201.26       BS2
ATOM  33495  CB  ILE B 127     193.067 169.319  -0.369  1.00170.97       BS2
ATOM  33496  CG2 ILE B 127     193.189 168.993  -1.851  1.00170.97       BS2
ATOM  33497  CG1 ILE B 127     191.642 169.780  -0.066  1.00170.97       BS2
ATOM  33498  CD1 ILE B 127     191.264 171.071  -0.765  1.00170.97       BS2
ATOM  33499  C   ILE B 127     194.890 167.747   0.235  1.00201.26       BS2
ATOM  33500  O   ILE B 127     195.240 166.622  -0.126  1.00201.26       BS2
ATOM  33501  N   GLU B 128     195.742 168.746   0.447  1.00201.26       BS2
ATOM  33502  CA  GLU B 128     197.179 168.589   0.268  1.00201.26       BS2
ATOM  33503  CB  GLU B 128     197.865 169.959   0.208  1.00124.99       BS2
ATOM  33504  CG  GLU B 128     197.484 170.819  -1.000  1.00124.99       BS2
ATOM  33505  CD  GLU B 128     196.089 171.420  -0.900  1.00124.99       BS2
ATOM  33506  OE1 GLU B 128     195.822 172.170   0.063  1.00124.99       BS2
ATOM  33507  OE2 GLU B 128     195.258 171.148  -1.790  1.00124.99       BS2
ATOM  33508  C   GLU B 128     197.774 167.764   1.406  1.00201.26       BS2
ATOM  33509  O   GLU B 128     198.972 167.832   1.678  1.00201.26       BS2
ATOM  33510  N   GLU B 129     196.921 166.990   2.071  1.00173.11       BS2
ATOM  33511  CA  GLU B 129     197.342 166.135   3.173  1.00173.11       BS2
ATOM  33512  CB  GLU B 129     196.231 166.058   4.223  1.00201.26       BS2
ATOM  33513  CG  GLU B 129     196.534 165.173   5.417  1.00201.26       BS2
ATOM  33514  CD  GLU B 129     195.382 165.124   6.405  1.00201.26       BS2
ATOM  33515  OE1 GLU B 129     195.019 166.188   6.951  1.00201.26       BS2
ATOM  33516  OE2 GLU B 129     194.838 164.022   6.633  1.00201.26       BS2
ATOM  33517  C   GLU B 129     197.640 164.744   2.613  1.00173.11       BS2
ATOM  33518  O   GLU B 129     196.840 164.192   1.854  1.00173.11       BS2
ATOM  33519  N   ARG B 130     198.795 164.193   2.987  1.00167.77       BS2
ATOM  33520  CA  ARG B 130     199.233 162.873   2.528  1.00167.77       BS2
ATOM  33521  CB  ARG B 130     198.086 161.861   2.647  1.00201.26       BS2
ATOM  33522  CG  ARG B 130     197.939 161.273   4.050  1.00201.26       BS2
ATOM  33523  CD  ARG B 130     199.200 160.510   4.450  1.00201.26       BS2
ATOM  33524  NE  ARG B 130     199.109 159.911   5.779  1.00201.26       BS2
ATOM  33525  CZ  ARG B 130     200.059 159.153   6.323  1.00201.26       BS2
ATOM  33526  NH1 ARG B 130     201.174 158.898   5.650  1.00201.26       BS2
ATOM  33527  NH2 ARG B 130     199.897 158.650   7.540  1.00201.26       BS2
ATOM  33528  C   ARG B 130     199.799 162.910   1.099  1.00167.77       BS2
ATOM  33529  O   ARG B 130     199.577 163.871   0.362  1.00167.77       BS2
ATOM  33530  N   PRO B 131     200.527 161.852   0.687  1.00107.94       BS2
ATOM  33531  CD  PRO B 131     200.522 160.528   1.333  1.00107.88       BS2
ATOM  33532  CA  PRO B 131     201.142 161.753  -0.644  1.00107.94       BS2
ATOM  33533  CB  PRO B 131     201.502 160.270  -0.753  1.00107.88       BS2
ATOM  33534  CG  PRO B 131     200.513 159.610   0.143  1.00107.88       BS2
ATOM  33535  C   PRO B 131     200.337 162.229  -1.841  1.00107.94       BS2
ATOM  33536  O   PRO B 131     199.115 162.344  -1.784  1.00107.94       BS2
ATOM  33537  N   LYS B 132     201.051 162.514  -2.927  1.00201.26       BS2
ATOM  33538  CA  LYS B 132     200.428 162.960  -4.163  1.00201.26       BS2
ATOM  33539  CB  LYS B 132     201.473 163.547  -5.116  1.00201.26       BS2
ATOM  33540  CG  LYS B 132     202.149 164.815  -4.616  1.00201.26       BS2
ATOM  33541  CD  LYS B 132     201.165 165.971  -4.515  1.00201.26       BS2
ATOM  33542  CE  LYS B 132     201.847 167.237  -4.008  1.00201.26       BS2
ATOM  33543  NZ  LYS B 132     200.899 168.380  -3.864  1.00201.26       BS2
ATOM  33544  C   LYS B 132     199.784 161.742  -4.800  1.00201.26       BS2
ATOM  33545  O   LYS B 132     198.704 161.832  -5.380  1.00201.26       BS2
ATOM  33546  N   LYS B 133     200.456 160.599  -4.682  1.00201.26       BS2
ATOM  33547  CA  LYS B 133     199.943 159.356  -5.241  1.00201.26       BS2
ATOM  33548  CB  LYS B 133     200.846 158.178  -4.852  1.00201.26       BS2
ATOM  33549  CG  LYS B 133     202.227 158.225  -5.506  1.00201.26       BS2
ATOM  33550  CD  LYS B 133     202.977 156.904  -5.363  1.00201.26       BS2
ATOM  33551  CE  LYS B 133     204.271 156.916  -6.172  1.00201.26       BS2
ATOM  33552  NZ  LYS B 133     204.990 155.609  -6.136  1.00201.26       BS2
ATOM  33553  C   LYS B 133     198.519 159.129  -4.746  1.00201.26       BS2
ATOM  33554  O   LYS B 133     197.641 158.731  -5.513  1.00201.26       BS2
ATOM  33555  N   GLU B 134     198.294 159.391  -3.461  1.00145.01       BS2
ATOM  33556  CA  GLU B 134     196.965 159.243  -2.882  1.00145.01       BS2
ATOM  33557  CB  GLU B 134     197.052 159.082  -1.363  1.00155.90       BS2
ATOM  33558  CG  GLU B 134     197.592 157.734  -0.914  1.00155.90       BS2
ATOM  33559  CD  GLU B 134     197.543 157.557   0.592  1.00155.90       BS2
ATOM  33560  OE1 GLU B 134     198.272 158.277   1.305  1.00155.90       BS2
ATOM  33561  OE2 GLU B 134     196.769 156.700   1.065  1.00155.90       BS2
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ATOM  33562  C   GLU B 134     196.153 160.485  -3.233  1.00145.01      BS2
ATOM  33563  O   GLU B 134     194.936 160.421  -3.403  1.00145.01      BS2
ATOM  33564  N   GLN B 135     196.841 161.616  -3.346  1.00106.80      BS2
ATOM  33565  CA  GLN B 135     196.198 162.874  -3.700  1.00106.80      BS2
ATOM  33566  CB  GLN B 135     197.141 164.052  -3.436  1.00198.97      BS2
ATOM  33567  CG  GLN B 135     196.479 165.416  -3.560  1.00198.97      BS2
ATOM  33568  CD  GLN B 135     197.477 166.557  -3.554  1.00198.97      BS2
ATOM  33569  OE1 GLN B 135     198.309 166.671  -4.453  1.00198.97      BS2
ATOM  33570  NE2 GLN B 135     197.398 167.409  -2.539  1.00198.97      BS2
ATOM  33571  C   GLN B 135     195.868 162.802  -5.187  1.00106.80      BS2
ATOM  33572  O   GLN B 135     195.747 163.823  -5.866  1.00106.80      BS2
ATOM  33573  N   VAL B 136     195.740 161.576  -5.684  1.00140.88      BS2
ATOM  33574  CA  VAL B 136     195.419 161.337  -7.082  1.00140.88      BS2
ATOM  33575  CB  VAL B 136     196.685 161.009  -7.897  1.00201.26      BS2
ATOM  33576  CG1 VAL B 136     196.304 160.635  -9.317  1.00201.26      BS2
ATOM  33577  CG2 VAL B 136     197.616 162.210  -7.912  1.00201.26      BS2
ATOM  33578  C   VAL B 136     194.428 160.185  -7.204  1.00140.88      BS2
ATOM  33579  O   VAL B 136     193.396 160.319  -7.860  1.00140.88      BS2
ATOM  33580  N   ARG B 137     194.741 159.054  -6.574  1.00146.46      BS2
ATOM  33581  CA  ARG B 137     193.845 157.902  -6.619  1.00146.46      BS2
ATOM  33582  CB  ARG B 137     194.309 156.801  -5.667  1.00188.45      BS2
ATOM  33583  CG  ARG B 137     195.718 156.301  -5.889  1.00188.45      BS2
ATOM  33584  CD  ARG B 137     195.986 155.031  -5.082  1.00188.45      BS2
ATOM  33585  NE  ARG B 137     195.563 155.136  -3.685  1.00188.45      BS2
ATOM  33586  CZ  ARG B 137     194.324 154.915  -3.251  1.00188.45      BS2
ATOM  33587  NH1 ARG B 137     193.365 154.571  -4.100  1.00188.45      BS2
ATOM  33588  NH2 ARG B 137     194.042 155.037  -1.962  1.00188.45      BS2
ATOM  33589  C   ARG B 137     192.474 158.380  -6.174  1.00146.46      BS2
ATOM  33590  O   ARG B 137     191.470 158.150  -6.844  1.00146.46      BS2
ATOM  33591  N   LEU B 138     192.449 159.047  -5.027  1.00 83.68      BS2
ATOM  33592  CA  LEU B 138     191.215 159.576  -4.481  1.00 83.68      BS2
ATOM  33593  CB  LEU B 138     191.486 160.324  -3.178  1.00 92.40      BS2
ATOM  33594  CG  LEU B 138     192.088 159.465  -2.065  1.00 92.40      BS2
ATOM  33595  CD1 LEU B 138     192.276 160.312  -0.826  1.00 92.40      BS2
ATOM  33596  CD2 LEU B 138     191.179 158.288  -1.763  1.00 92.40      BS2
ATOM  33597  C   LEU B 138     190.602 160.516  -5.493  1.00 83.68      BS2
ATOM  33598  O   LEU B 138     189.431 160.378  -5.838  1.00 83.68      BS2
ATOM  33599  N   LYS B 139     191.391 161.466  -5.980  1.00 78.75      BS2
ATOM  33600  CA  LYS B 139     190.879 162.411  -6.965  1.00 78.75      BS2
ATOM  33601  CB  LYS B 139     192.004 163.280  -7.530  1.00113.66      BS2
ATOM  33602  CG  LYS B 139     191.558 164.697  -7.871  1.00113.66      BS2
ATOM  33603  CD  LYS B 139     190.287 164.704  -8.710  1.00113.66      BS2
ATOM  33604  CE  LYS B 139     189.711 166.105  -8.833  1.00113.66      BS2
ATOM  33605  NZ  LYS B 139     189.388 166.689  -7.500  1.00113.66      BS2
ATOM  33606  C   LYS B 139     190.200 161.644  -8.101  1.00 78.75      BS2
ATOM  33607  O   LYS B 139     189.137 162.041  -8.582  1.00 78.75      BS2
ATOM  33608  N   HIS B 140     190.823 160.546  -8.525  1.00108.50      BS2
ATOM  33609  CA  HIS B 140     190.261 159.719  -9.587  1.00108.50      BS2
ATOM  33610  CB  HIS B 140     191.103 158.457  -9.813  1.00177.33      BS2
ATOM  33611  CG  HIS B 140     192.481 158.720 -10.335  1.00177.33      BS2
ATOM  33612  CD2 HIS B 140     193.685 158.234  -9.952  1.00177.33      BS2
ATOM  33613  ND1 HIS B 140     192.724 159.534 -11.421  1.00177.33      BS2
ATOM  33614  CE1 HIS B 140     194.019 159.537 -11.684  1.00177.33      BS2
ATOM  33615  NE2 HIS B 140     194.624 158.756 -10.808  1.00177.33      BS2
ATOM  33616  C   HIS B 140     188.867 159.298  -9.151  1.00108.50      BS2
ATOM  33617  O   HIS B 140     187.881 159.580  -9.824  1.00108.50      BS2
ATOM  33618  N   GLU B 141     188.803 158.617  -8.010  1.00 83.07      BS2
ATOM  33619  CA  GLU B 141     187.544 158.143  -7.456  1.00 83.07      BS2
ATOM  33620  CB  GLU B 141     187.690 157.916  -5.954  1.00142.80      BS2
ATOM  33621  CG  GLU B 141     186.532 157.174  -5.335  1.00142.80      BS2
ATOM  33622  CD  GLU B 141     186.818 156.759  -3.910  1.00142.80      BS2
ATOM  33623  OE1 GLU B 141     187.834 156.067  -3.688  1.00142.80      BS2
ATOM  33624  OE2 GLU B 141     186.028 157.122  -3.012  1.00142.80      BS2
ATOM  33625  C   GLU B 141     186.444 159.156  -7.736  1.00 83.07      BS2
ATOM  33626  O   GLU B 141     185.510 158.866  -8.479  1.00 83.07      BS2
ATOM  33627  N   LEU B 142     186.557 160.346  -7.155  1.00 64.55      BS2
ATOM  33628  CA  LEU B 142     185.555 161.378  -7.394  1.00 64.55      BS2
ATOM  33629  CB  LEU B 142     186.086 162.768  -7.019  1.00108.56      BS2
ATOM  33630  CG  LEU B 142     186.095 163.233  -5.560  1.00108.56      BS2
ATOM  33631  CD1 LEU B 142     186.694 164.624  -5.500  1.00108.56      BS2
ATOM  33632  CD2 LEU B 142     184.686 163.255  -4.991  1.00108.56      BS2
ATOM  33633  C   LEU B 142     185.206 161.369  -8.875  1.00 64.55      BS2
ATOM  33634  O   LEU B 142     184.069 161.096  -9.254  1.00 64.55      BS2
ATOM  33635  N   GLU B 143     186.205 161.655  -9.702  1.00103.99      BS2
ATOM  33636  CA  GLU B 143     186.036 161.691 -11.148  1.00103.99      BS2
ATOM  33637  CB  GLU B 143     187.332 161.267 -11.850  1.00198.17      BS2
ATOM  33638  CG  GLU B 143     188.564 162.047 -11.437  1.00198.17      BS2
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ATOM  33639  CD  GLU B 143     188.513 163.488 -11.886  1.00198.17      BS2
ATOM  33640  OE1 GLU B 143     188.548 163.727 -13.110  1.00198.17      BS2
ATOM  33641  OE2 GLU B 143     188.433 164.378 -11.015  1.00198.17      BS2
ATOM  33642  C   GLU B 143     184.911 160.778 -11.608  1.00103.99      BS2
ATOM  33643  O   GLU B 143     183.848 161.249 -12.014  1.00103.99      BS2
ATOM  33644  N   ARG B 144     185.144 159.470 -11.521  1.00 80.56      BS2
ATOM  33645  CA  ARG B 144     184.160 158.495 -11.967  1.00 80.56      BS2
ATOM  33646  CB  ARG B 144     184.663 157.062 -11.715  1.00185.15      BS2
ATOM  33647  CG  ARG B 144     184.377 156.494 -10.333  1.00185.15      BS2
ATOM  33648  CD  ARG B 144     183.193 155.523 -10.351  1.00185.15      BS2
ATOM  33649  NE  ARG B 144     183.504 154.255 -11.011  1.00185.15      BS2
ATOM  33650  CZ  ARG B 144     182.661 153.229 -11.099  1.00185.15      BS2
ATOM  33651  NH1 ARG B 144     181.446 153.314 -10.571  1.00185.15      BS2
ATOM  33652  NH2 ARG B 144     183.033 152.114 -11.711  1.00185.15      BS2
ATOM  33653  C   ARG B 144     182.802 158.715 -11.315  1.00 80.56      BS2
ATOM  33654  O   ARG B 144     181.775 158.689 -11.995  1.00 80.56      BS2
ATOM  33655  N   LEU B 145     182.789 158.946 -10.006  1.00 48.55      BS2
ATOM  33656  CA  LEU B 145     181.530 159.167  -9.314  1.00 48.55      BS2
ATOM  33657  CB  LEU B 145     181.772 159.439  -7.839  1.00 23.87      BS2
ATOM  33658  CG  LEU B 145     182.712 158.399  -7.234  1.00 23.87      BS2
ATOM  33659  CD1 LEU B 145     182.877 158.616  -5.730  1.00 23.87      BS2
ATOM  33660  CD2 LEU B 145     182.165 157.030  -7.518  1.00 23.87      BS2
ATOM  33661  C   LEU B 145     180.819 160.338  -9.958  1.00 48.55      BS2
ATOM  33662  O   LEU B 145     179.697 160.194 -10.434  1.00 48.55      BS2
ATOM  33663  N   GLN B 146     181.471 161.493  -9.993  1.00 60.70      BS2
ATOM  33664  CA  GLN B 146     180.861 162.662 -10.609  1.00 60.70      BS2
ATOM  33665  CB  GLN B 146     181.873 163.813 -10.709  1.00 94.65      BS2
ATOM  33666  CG  GLN B 146     181.947 164.729  -9.486  1.00 94.65      BS2
ATOM  33667  CD  GLN B 146     183.286 164.653  -8.767  1.00 94.65      BS2
ATOM  33668  OE1 GLN B 146     184.341 164.585  -9.400  1.00 94.65      BS2
ATOM  33669  NE2 GLN B 146     183.249 164.682  -7.438  1.00 94.65      BS2
ATOM  33670  C   GLN B 146     180.324 162.326 -12.005  1.00 60.70      BS2
ATOM  33671  O   GLN B 146     179.428 163.007 -12.516  1.00 60.70      BS2
ATOM  33672  N   LYS B 147     180.862 161.268 -12.613  1.00 67.76      BS2
ATOM  33673  CA  LYS B 147     180.447 160.851 -13.955  1.00 67.76      BS2
ATOM  33674  CB  LYS B 147     181.549 160.031 -14.634  1.00 96.98      BS2
ATOM  33675  CG  LYS B 147     182.838 160.763 -14.902  1.00 96.98      BS2
ATOM  33676  CD  LYS B 147     183.878 159.807 -15.474  1.00 96.98      BS2
ATOM  33677  CE  LYS B 147     185.257 160.463 -15.551  1.00 96.98      BS2
ATOM  33678  NZ  LYS B 147     186.339 159.489 -15.876  1.00 96.98      BS2
ATOM  33679  C   LYS B 147     179.172 160.018 -13.999  1.00 67.76      BS2
ATOM  33680  O   LYS B 147     178.304 160.245 -14.841  1.00 67.76      BS2
ATOM  33681  N   TYR B 148     179.074 159.048 -13.095  1.00100.30      BS2
ATOM  33682  CA  TYR B 148     177.941 158.128 -13.065  1.00100.30      BS2
ATOM  33683  CB  TYR B 148     178.479 156.706 -12.840  1.00106.29      BS2
ATOM  33684  CG  TYR B 148     179.562 156.311 -13.833  1.00106.29      BS2
ATOM  33685  CD1 TYR B 148     180.422 155.244 -13.583  1.00106.29      BS2
ATOM  33686  CE1 TYR B 148     181.427 154.905 -14.497  1.00106.29      BS2
ATOM  33687  CD2 TYR B 148     179.732 157.023 -15.021  1.00106.29      BS2
ATOM  33688  CE2 TYR B 148     180.728 156.695 -15.931  1.00106.29      BS2
ATOM  33689  CZ  TYR B 148     181.571 155.643 -15.669  1.00106.29      BS2
ATOM  33690  OH  TYR B 148     182.562 155.362 -16.582  1.00106.29      BS2
ATOM  33691  C   TYR B 148     176.867 158.455 -12.035  1.00100.30      BS2
ATOM  33692  O   TYR B 148     175.675 158.266 -12.287  1.00100.30      BS2
ATOM  33693  N   LEU B 149     177.294 158.955 -10.882  1.00 62.08      BS2
ATOM  33694  CA  LEU B 149     176.381 159.298  -9.801  1.00 62.08      BS2
ATOM  33695  CB  LEU B 149     177.015 158.887  -8.481  1.00 32.74      BS2
ATOM  33696  CG  LEU B 149     177.531 157.452  -8.502  1.00 32.74      BS2
ATOM  33697  CD1 LEU B 149     178.022 157.042  -7.108  1.00 32.74      BS2
ATOM  33698  CD2 LEU B 149     176.408 156.546  -8.969  1.00 32.74      BS2
ATOM  33699  C   LEU B 149     175.985 160.779  -9.742  1.00 62.08      BS2
ATOM  33700  O   LEU B 149     175.515 161.263  -8.710  1.00 62.08      BS2
ATOM  33701  N   SER B 150     176.163 161.487 -10.853  1.00 56.01      BS2
ATOM  33702  CA  SER B 150     175.839 162.907 -10.928  1.00 56.01      BS2
ATOM  33703  CB  SER B 150     176.307 163.461 -12.267  1.00 76.26      BS2
ATOM  33704  OG  SER B 150     175.729 162.720 -13.322  1.00 76.26      BS2
ATOM  33705  C   SER B 150     174.350 163.216 -10.739  1.00 56.01      BS2
ATOM  33706  O   SER B 150     173.991 164.128  -9.992  1.00 56.01      BS2
ATOM  33707  N   GLY B 151     173.490 162.466 -11.423  1.00 80.97      BS2
ATOM  33708  CA  GLY B 151     172.054 162.680 -11.306  1.00 80.97      BS2
ATOM  33709  C   GLY B 151     171.395 161.648 -10.413  1.00 80.97      BS2
ATOM  33710  O   GLY B 151     170.176 161.585 -10.286  1.00 80.97      BS2
ATOM  33711  N   PHE B 152     172.226 160.838  -9.781  1.00 47.07      BS2
ATOM  33712  CA  PHE B 152     171.759 159.794  -8.901  1.00 47.07      BS2
ATOM  33713  CB  PHE B 152     172.539 158.518  -9.189  1.00 43.64      BS2
ATOM  33714  CG  PHE B 152     171.920 157.287  -8.618  1.00 43.64      BS2
ATOM  33715  CD1 PHE B 152     170.774 156.752  -9.184  1.00 43.64      BS2
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ATOM  33716  CD2 PHE B 152     172.501 156.645  -7.531  1.00 43.64       BS2
ATOM  33717  CE1 PHE B 152     170.214 155.589  -8.678  1.00 43.64       BS2
ATOM  33718  CE2 PHE B 152     171.949 155.478  -7.016  1.00 43.64       BS2
ATOM  33719  CZ  PHE B 152     170.803 154.946  -7.591  1.00 43.64       BS2
ATOM  33720  C   PHE B 152     171.977 160.222  -7.456  1.00 47.07       BS2
ATOM  33721  O   PHE B 152     171.687 159.470  -6.527  1.00 47.07       BS2
ATOM  33722  N   ARG B 153     172.510 161.425  -7.274  1.00 68.84       BS2
ATOM  33723  CA  ARG B 153     172.756 161.953  -5.937  1.00 68.84       BS2
ATOM  33724  CB  ARG B 153     173.474 163.300  -6.009  1.00131.86       BS2
ATOM  33725  CG  ARG B 153     174.887 163.296  -6.538  1.00131.86       BS2
ATOM  33726  CD  ARG B 153     175.318 164.741  -6.784  1.00131.86       BS2
ATOM  33727  NE  ARG B 153     176.725 164.867  -7.148  1.00131.86       BS2
ATOM  33728  CZ  ARG B 153     177.730 164.792  -6.284  1.00131.86       BS2
ATOM  33729  NH1 ARG B 153     177.487 164.596  -4.994  1.00131.86       BS2
ATOM  33730  NH2 ARG B 153     178.981 164.908  -6.712  1.00131.86       BS2
ATOM  33731  C   ARG B 153     171.420 162.184  -5.240  1.00 68.84       BS2
ATOM  33732  O   ARG B 153     171.218 161.790  -4.094  1.00 68.84       BS2
ATOM  33733  N   LEU B 154     170.517 162.846  -5.953  1.00 98.21       BS2
ATOM  33734  CA  LEU B 154     169.198 163.183  -5.438  1.00 98.21       BS2
ATOM  33735  CB  LEU B 154     168.342 163.713  -6.585  1.00114.38       BS2
ATOM  33736  CG  LEU B 154     169.120 164.681  -7.483  1.00114.38       BS2
ATOM  33737  CD1 LEU B 154     168.190 165.271  -8.530  1.00114.38       BS2
ATOM  33738  CD2 LEU B 154     169.746 165.782  -6.640  1.00114.38       BS2
ATOM  33739  C   LEU B 154     168.478 162.042  -4.714  1.00 98.21       BS2
ATOM  33740  O   LEU B 154     168.266 162.112  -3.500  1.00 98.21       BS2
ATOM  33741  N   LEU B 155     168.098 161.002  -5.452  1.00 56.60       BS2
ATOM  33742  CA  LEU B 155     167.413 159.852  -4.865  1.00 56.60       BS2
ATOM  33743  CB  LEU B 155     167.598 158.612  -5.738  1.00 51.19       BS2
ATOM  33744  CG  LEU B 155     166.799 158.536  -7.034  1.00 51.19       BS2
ATOM  33745  CD1 LEU B 155     167.100 157.220  -7.713  1.00 51.19       BS2
ATOM  33746  CD2 LEU B 155     165.315 158.637  -6.741  1.00 51.19       BS2
ATOM  33747  C   LEU B 155     167.892 159.512  -3.460  1.00 56.60       BS2
ATOM  33748  O   LEU B 155     169.059 159.183  -3.259  1.00 56.60       BS2
ATOM  33749  N   LYS B 156     166.993 159.590  -2.487  1.00 61.96       BS2
ATOM  33750  CA  LYS B 156     167.348 159.251  -1.117  1.00 61.96       BS2
ATOM  33751  CB  LYS B 156     166.859 160.345  -0.158  1.00201.26       BS2
ATOM  33752  CG  LYS B 156     167.465 160.293   1.245  1.00201.26       BS2
ATOM  33753  CD  LYS B 156     166.767 159.269   2.133  1.00201.26       BS2
ATOM  33754  CE  LYS B 156     167.391 159.199   3.521  1.00201.26       BS2
ATOM  33755  NZ  LYS B 156     168.789 158.687   3.486  1.00201.26       BS2
ATOM  33756  C   LYS B 156     166.679 157.901  -0.818  1.00 61.96       BS2
ATOM  33757  O   LYS B 156     166.986 157.242   0.180  1.00 61.96       BS2
ATOM  33758  N   ARG B 157     165.780 157.492  -1.715  1.00 53.07       BS2
ATOM  33759  CA  ARG B 157     165.045 156.228  -1.609  1.00 53.07       BS2
ATOM  33760  CB  ARG B 157     163.791 156.420  -0.771  1.00 90.38       BS2
ATOM  33761  CG  ARG B 157     162.811 157.399  -1.409  1.00 90.38       BS2
ATOM  33762  CD  ARG B 157     161.549 157.511  -0.596  1.00 90.38       BS2
ATOM  33763  NE  ARG B 157     161.860 157.681   0.816  1.00 90.38       BS2
ATOM  33764  CZ  ARG B 157     160.953 157.902   1.758  1.00 90.38       BS2
ATOM  33765  NH1 ARG B 157     159.671 157.983   1.434  1.00 90.38       BS2
ATOM  33766  NH2 ARG B 157     161.329 158.036   3.022  1.00 90.38       BS2
ATOM  33767  C   ARG B 157     164.617 155.819  -3.012  1.00 53.07       BS2
ATOM  33768  O   ARG B 157     164.780 156.584  -3.958  1.00 53.07       BS2
ATOM  33769  N   LEU B 158     164.056 154.625  -3.152  1.00 37.30       BS2
ATOM  33770  CA  LEU B 158     163.593 154.181  -4.463  1.00 37.30       BS2
ATOM  33771  CB  LEU B 158     163.006 152.779  -4.361  1.00 48.23       BS2
ATOM  33772  CG  LEU B 158     163.983 151.758  -3.781  1.00 48.23       BS2
ATOM  33773  CD1 LEU B 158     163.269 150.456  -3.507  1.00 48.23       BS2
ATOM  33774  CD2 LEU B 158     165.124 151.539  -4.753  1.00 48.23       BS2
ATOM  33775  C   LEU B 158     162.531 155.154  -4.980  1.00 37.30       BS2
ATOM  33776  O   LEU B 158     161.647 155.565  -4.238  1.00 37.30       BS2
ATOM  33777  N   PRO B 159     162.612 155.540  -6.259  1.00 17.36       BS2
ATOM  33778  CD  PRO B 159     163.590 155.078  -7.256  1.00 43.64       BS2
ATOM  33779  CA  PRO B 159     161.653 156.471  -6.868  1.00 17.36       BS2
ATOM  33780  CB  PRO B 159     162.217 156.677  -8.273  1.00 43.64       BS2
ATOM  33781  CG  PRO B 159     162.879 155.376  -8.555  1.00 43.64       BS2
ATOM  33782  C   PRO B 159     160.197 155.994  -6.897  1.00 17.36       BS2
ATOM  33783  O   PRO B 159     159.910 154.796  -6.835  1.00 17.36       BS2
ATOM  33784  N   ASP B 160     159.275 156.942  -6.990  1.00 69.92       BS2
ATOM  33785  CA  ASP B 160     157.861 156.605  -7.020  1.00 69.92       BS2
ATOM  33786  CB  ASP B 160     157.033 157.776  -6.507  1.00135.19       BS2
ATOM  33787  CG  ASP B 160     157.468 158.222  -5.131  1.00135.19       BS2
ATOM  33788  OD1 ASP B 160     157.493 157.372  -4.217  1.00135.19       BS2
ATOM  33789  OD2 ASP B 160     157.790 159.416  -4.963  1.00135.19       BS2
ATOM  33790  C   ASP B 160     157.478 156.268  -8.440  1.00 69.92       BS2
ATOM  33791  O   ASP B 160     156.376 155.803  -8.709  1.00 69.92       BS2
ATOM  33792  N   ALA B 161     158.410 156.507  -9.349  1.00 34.10       BS2
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ATOM  33793  CA  ALA B 161     158.200 156.219 -10.755  1.00 34.10       BS2
ATOM  33794  CB  ALA B 161     157.309 157.265 -11.387  1.00 74.96       BS2
ATOM  33795  C   ALA B 161     159.566 156.231 -11.409  1.00 34.10       BS2
ATOM  33796  O   ALA B 161     160.579 156.395 -10.721  1.00 34.10       BS2
ATOM  33797  N   ILE B 162     159.588 156.068 -12.732  1.00 52.05       BS2
ATOM  33798  CA  ILE B 162     160.833 156.038 -13.487  1.00 52.05       BS2
ATOM  33799  CB  ILE B 162     161.566 154.677 -13.242  1.00 54.89       BS2
ATOM  33800  CG2 ILE B 162     161.509 153.768 -14.461  1.00 54.89       BS2
ATOM  33801  CG1 ILE B 162     163.015 154.950 -12.851  1.00 54.89       BS2
ATOM  33802  CD1 ILE B 162     163.708 153.759 -12.247  1.00 54.89       BS2
ATOM  33803  C   ILE B 162     160.540 156.272 -14.965  1.00 52.05       BS2
ATOM  33804  O   ILE B 162     159.891 155.456 -15.625  1.00 52.05       BS2
ATOM  33805  N   PHE B 163     160.992 157.415 -15.473  1.00107.57      BS2
ATOM  33806  CA  PHE B 163     160.765 157.776 -16.869  1.00107.57      BS2
ATOM  33807  CB  PHE B 163     160.621 159.287 -17.019  1.00 56.66       BS2
ATOM  33808  CG  PHE B 163     159.941 159.700 -18.278  1.00 56.66       BS2
ATOM  33809  CD1 PHE B 163     158.599 160.047 -18.272  1.00 56.66       BS2
ATOM  33810  CD2 PHE B 163     160.632 159.722 -19.479  1.00 56.66       BS2
ATOM  33811  CE1 PHE B 163     157.945 160.415 -19.454  1.00 56.66       BS2
ATOM  33812  CE2 PHE B 163     159.993 160.086 -20.668  1.00 56.66       BS2
ATOM  33813  CZ  PHE B 163     158.647 160.434 -20.655  1.00 56.66       BS2
ATOM  33814  C   PHE B 163     161.927 157.306 -17.719  1.00107.57      BS2
ATOM  33815  O   PHE B 163     163.068 157.714 -17.509  1.00107.57      BS2
ATOM  33816  N   VAL B 164     161.625 156.465 -18.697  1.00 65.67       BS2
ATOM  33817  CA  VAL B 164     162.657 155.915 -19.558  1.00 65.67       BS2
ATOM  33818  CB  VAL B 164     162.667 154.370 -19.435  1.00 27.66       BS2
ATOM  33819  CG1 VAL B 164     162.981 153.725 -20.759  1.00 27.66       BS2
ATOM  33820  CG2 VAL B 164     163.691 153.955 -18.398  1.00 27.66       BS2
ATOM  33821  C   VAL B 164     162.547 156.325 -21.019  1.00 65.67       BS2
ATOM  33822  O   VAL B 164     161.449 156.423 -21.576  1.00 65.67       BS2
ATOM  33823  N   VAL B 165     163.705 156.570 -21.627  1.00 87.29       BS2
ATOM  33824  CA  VAL B 165     163.781 156.955 -23.027  1.00 87.29       BS2
ATOM  33825  CB  VAL B 165     165.146 157.522 -23.355  1.00 84.53       BS2
ATOM  33826  CG1 VAL B 165     165.135 158.078 -24.761  1.00 84.53       BS2
ATOM  33827  CG2 VAL B 165     165.505 158.594 -22.349  1.00 84.53       BS2
ATOM  33828  C   VAL B 165     163.540 155.707 -23.862  1.00 87.29       BS2
ATOM  33829  O   VAL B 165     162.391 155.363 -24.121  1.00 87.29       BS2
ATOM  33830  N   ASP B 166     164.601 155.027 -24.295  1.00 63.79       BS2
ATOM  33831  CA  ASP B 166     164.396 153.791 -25.053  1.00 63.79       BS2
ATOM  33832  CB  ASP B 166     165.453 153.582 -26.136  1.00 98.62       BS2
ATOM  33833  CG  ASP B 166     165.194 152.322 -26.950  1.00 98.62       BS2
ATOM  33834  OD1 ASP B 166     164.044 152.145 -27.408  1.00 98.62       BS2
ATOM  33835  OD2 ASP B 166     166.124 151.509 -27.135  1.00 98.62       BS2
ATOM  33836  C   ASP B 166     164.436 152.618 -24.077  1.00 63.79       BS2
ATOM  33837  O   ASP B 166     165.499 152.221 -23.593  1.00 63.79       BS2
ATOM  33838  N   PRO B 167     163.264 152.039 -23.790  1.00 67.36       BS2
ATOM  33839  CD  PRO B 167     162.066 152.171 -24.634  1.00 39.88       BS2
ATOM  33840  CA  PRO B 167     163.117 150.914 -22.870  1.00 67.36       BS2
ATOM  33841  CB  PRO B 167     161.656 150.542 -23.029  1.00 39.88       BS2
ATOM  33842  CG  PRO B 167     161.428 150.819 -24.483  1.00 39.88       BS2
ATOM  33843  C   PRO B 167     164.039 149.765 -23.212  1.00 67.36       BS2
ATOM  33844  O   PRO B 167     164.821 149.326 -22.376  1.00 67.36       BS2
ATOM  33845  N   THR B 168     163.942 149.272 -24.441  1.00 75.05       BS2
ATOM  33846  CA  THR B 168     164.786 148.169 -24.862  1.00 75.05       BS2
ATOM  33847  CB  THR B 168     164.748 147.979 -26.368  1.00 63.27       BS2
ATOM  33848  OG1 THR B 168     163.394 147.775 -26.778  1.00 63.27       BS2
ATOM  33849  CG2 THR B 168     165.582 146.774 -26.770  1.00 63.27       BS2
ATOM  33850  C   THR B 168     166.211 148.472 -24.465  1.00 75.05       BS2
ATOM  33851  O   THR B 168     166.818 147.738 -23.689  1.00 75.05       BS2
ATOM  33852  N   LYS B 169     166.736 149.572 -24.995  1.00 50.42       BS2
ATOM  33853  CA  LYS B 169     168.100 149.983 -24.698  1.00 50.42       BS2
ATOM  33854  CB  LYS B 169     168.365 151.372 -25.296  1.00 94.48       BS2
ATOM  33855  CG  LYS B 169     169.836 151.763 -25.398  1.00 94.48       BS2
ATOM  33856  CD  LYS B 169     170.401 152.177 -24.049  1.00 94.48       BS2
ATOM  33857  CE  LYS B 169     171.893 152.475 -24.119  1.00 94.48       BS2
ATOM  33858  NZ  LYS B 169     172.704 151.244 -24.337  1.00 94.48       BS2
ATOM  33859  C   LYS B 169     168.292 150.001 -23.186  1.00 50.42       BS2
ATOM  33860  O   LYS B 169     169.286 149.485 -22.662  1.00 50.42       BS2
ATOM  33861  N   GLU B 170     167.313 150.570 -22.489  1.00 39.76       BS2
ATOM  33862  CA  GLU B 170     167.369 150.677 -21.038  1.00 39.76       BS2
ATOM  33863  CB  GLU B 170     166.771 152.015 -20.614  1.00 73.44       BS2
ATOM  33864  CG  GLU B 170     167.772 152.922 -19.919  1.00 73.44       BS2
ATOM  33865  CD  GLU B 170     169.011 153.191 -20.753  1.00 73.44       BS2
ATOM  33866  OE1 GLU B 170     168.915 153.965 -21.737  1.00 73.44       BS2
ATOM  33867  OE2 GLU B 170     170.078 152.620 -20.417  1.00 73.44       BS2
ATOM  33868  C   GLU B 170     166.667 149.530 -20.317  1.00 39.76       BS2
ATOM  33869  O   GLU B 170     166.193 149.685 -19.188  1.00 39.76       BS2
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ATOM  33870  N   ALA B 171     166.639 148.372 -20.971  1.00 66.76      BS2
ATOM  33871  CA  ALA B 171     165.980 147.177 -20.454  1.00 66.76      BS2
ATOM  33872  CB  ALA B 171     166.211 146.018 -21.407  1.00148.84      BS2
ATOM  33873  C   ALA B 171     166.347 146.753 -19.036  1.00 66.76      BS2
ATOM  33874  O   ALA B 171     165.465 146.540 -18.207  1.00 66.76      BS2
ATOM  33875  N   ILE B 172     167.638 146.626 -18.750  1.00 39.92      BS2
ATOM  33876  CA  ILE B 172     168.068 146.190 -17.421  1.00 39.92      BS2
ATOM  33877  CB  ILE B 172     169.602 146.057 -17.328  1.00 72.97      BS2
ATOM  33878  CG2 ILE B 172     169.999 145.558 -15.950  1.00 72.97      BS2
ATOM  33879  CG1 ILE B 172     170.091 145.062 -18.385  1.00 72.97      BS2
ATOM  33880  CD1 ILE B 172     171.582 144.777 -18.350  1.00 72.97      BS2
ATOM  33881  C   ILE B 172     167.588 147.116 -16.325  1.00 39.92      BS2
ATOM  33882  O   ILE B 172     167.603 146.754 -15.152  1.00 39.92      BS2
ATOM  33883  N   ALA B 173     167.167 148.318 -16.705  1.00 54.18      BS2
ATOM  33884  CA  ALA B 173     166.669 149.285 -15.736  1.00 54.18      BS2
ATOM  33885  CB  ALA B 173     166.811 150.698 -16.276  1.00 53.09      BS2
ATOM  33886  C   ALA B 173     165.210 148.946 -15.529  1.00 54.18      BS2
ATOM  33887  O   ALA B 173     164.763 148.690 -14.414  1.00 54.18      BS2
ATOM  33888  N   VAL B 174     164.475 148.934 -16.627  1.00 30.97      BS2
ATOM  33889  CA  VAL B 174     163.067 148.606 -16.581  1.00 30.97      BS2
ATOM  33890  CB  VAL B 174     162.511 148.390 -17.980  1.00  2.84      BS2
ATOM  33891  CG1 VAL B 174     161.033 148.038 -17.888  1.00  2.84      BS2
ATOM  33892  CG2 VAL B 174     162.741 149.621 -18.829  1.00  2.84      BS2
ATOM  33893  C   VAL B 174     162.831 147.325 -15.786  1.00 30.97      BS2
ATOM  33894  O   VAL B 174     161.987 147.281 -14.893  1.00 30.97      BS2
ATOM  33895  N   ARG B 175     163.566 146.275 -16.126  1.00 58.36      BS2
ATOM  33896  CA  ARG B 175     163.414 145.015 -15.425  1.00 58.36      BS2
ATOM  33897  CB  ARG B 175     164.578 144.083 -15.754  1.00128.44      BS2
ATOM  33898  CG  ARG B 175     164.416 142.666 -15.233  1.00128.44      BS2
ATOM  33899  CD  ARG B 175     165.725 141.905 -15.355  1.00128.44      BS2
ATOM  33900  NE  ARG B 175     166.240 141.914 -16.724  1.00128.44      BS2
ATOM  33901  CZ  ARG B 175     167.448 141.477 -17.067  1.00128.44      BS2
ATOM  33902  NH1 ARG B 175     168.265 140.995 -16.138  1.00128.44      BS2
ATOM  33903  NH2 ARG B 175     167.839 141.520 -18.336  1.00128.44      BS2
ATOM  33904  C   ARG B 175     163.389 145.313 -13.930  1.00 58.36      BS2
ATOM  33905  O   ARG B 175     162.389 145.070 -13.255  1.00 58.36      BS2
ATOM  33906  N   GLU B 176     164.484 145.860 -13.418  1.00 37.14      BS2
ATOM  33907  CA  GLU B 176     164.566 146.183 -12.003  1.00 37.14      BS2
ATOM  33908  CB  GLU B 176     165.805 147.024 -11.717  1.00 96.35      BS2
ATOM  33909  CG  GLU B 176     167.050 146.192 -11.563  1.00 96.35      BS2
ATOM  33910  CD  GLU B 176     168.181 146.968 -10.945  1.00 96.35      BS2
ATOM  33911  OE1 GLU B 176     167.920 147.745 -10.005  1.00 96.35      BS2
ATOM  33912  OE2 GLU B 176     169.333 146.795 -11.390  1.00 96.35      BS2
ATOM  33913  C   GLU B 176     163.333 146.917 -11.522  1.00 37.14      BS2
ATOM  33914  O   GLU B 176     162.751 146.557 -10.498  1.00 37.14      BS2
ATOM  33915  N   ALA B 177     162.943 147.951 -12.262  1.00 40.78      BS2
ATOM  33916  CA  ALA B 177     161.761 148.734 -11.923  1.00 40.78      BS2
ATOM  33917  CB  ALA B 177     161.276 149.494 -13.147  1.00 35.39      BS2
ATOM  33918  C   ALA B 177     160.702 147.748 -11.467  1.00 40.78      BS2
ATOM  33919  O   ALA B 177     160.318 147.724 -10.293  1.00 40.78      BS2
ATOM  33920  N   ARG B 178     160.253 146.928 -12.415  1.00 18.72      BS2
ATOM  33921  CA  ARG B 178     159.260 145.901 -12.163  1.00 18.72      BS2
ATOM  33922  CB  ARG B 178     159.285 144.853 -13.263  1.00 41.82      BS2
ATOM  33923  CG  ARG B 178     158.236 145.006 -14.323  1.00 41.82      BS2
ATOM  33924  CD  ARG B 178     158.550 146.148 -15.237  1.00 41.82      BS2
ATOM  33925  NE  ARG B 178     157.661 146.142 -16.386  1.00 41.82      BS2
ATOM  33926  CZ  ARG B 178     156.348 145.989 -16.298  1.00 41.82      BS2
ATOM  33927  NH1 ARG B 178     155.775 145.822 -15.115  1.00 41.82      BS2
ATOM  33928  NH2 ARG B 178     155.605 146.017 -17.392  1.00 41.82      BS2
ATOM  33929  C   ARG B 178     159.507 145.194 -10.847  1.00 18.72      BS2
ATOM  33930  O   ARG B 178     158.849 145.483  -9.870  1.00 18.72      BS2
ATOM  33931  N   LYS B 179     160.461 144.269 -10.814  1.00 43.22      BS2
ATOM  33932  CA  LYS B 179     160.719 143.520  -9.586  1.00 43.22      BS2
ATOM  33933  CB  LYS B 179     162.112 142.881  -9.620  1.00102.08      BS2
ATOM  33934  CG  LYS B 179     162.419 142.057  -8.369  1.00102.08      BS2
ATOM  33935  CD  LYS B 179     163.677 141.218  -8.507  1.00102.08      BS2
ATOM  33936  CE  LYS B 179     163.496 140.121  -9.538  1.00102.08      BS2
ATOM  33937  NZ  LYS B 179     164.677 139.220  -9.582  1.00102.08      BS2
ATOM  33938  C   LYS B 179     160.557 144.340  -8.302  1.00 43.22      BS2
ATOM  33939  O   LYS B 179     160.254 143.798  -7.239  1.00 43.22      BS2
ATOM  33940  N   LEU B 180     160.753 145.646  -8.401  1.00 60.60      BS2
ATOM  33941  CA  LEU B 180     160.611 146.495  -7.237  1.00 60.60      BS2
ATOM  33942  CB  LEU B 180     161.683 147.575  -7.258  1.00 36.10      BS2
ATOM  33943  CG  LEU B 180     163.057 147.049  -6.852  1.00 36.10      BS2
ATOM  33944  CD1 LEU B 180     164.067 148.187  -6.796  1.00 36.10      BS2
ATOM  33945  CD2 LEU B 180     162.942 146.390  -5.492  1.00 36.10      BS2
ATOM  33946  C   LEU B 180     159.221 147.113  -7.129  1.00 60.60      BS2
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ATOM  33947  O   LEU B 180     158.874 147.711  -6.111  1.00 60.60      BS2
ATOM  33948  N   PHE B 181     158.429 146.954  -8.183  1.00 92.29      BS2
ATOM  33949  CA  PHE B 181     157.060 147.457  -8.230  1.00 92.29      BS2
ATOM  33950  CB  PHE B 181     156.324 147.108  -6.935  1.00 53.50      BS2
ATOM  33951  CG  PHE B 181     155.931 145.662  -6.836  1.00 53.50      BS2
ATOM  33952  CD1 PHE B 181     156.288 144.906  -5.724  1.00 53.50      BS2
ATOM  33953  CD2 PHE B 181     155.189 145.060  -7.851  1.00 53.50      BS2
ATOM  33954  CE1 PHE B 181     155.912 143.566  -5.623  1.00 53.50      BS2
ATOM  33955  CE2 PHE B 181     154.807 143.728  -7.765  1.00 53.50      BS2
ATOM  33956  CZ  PHE B 181     155.168 142.976  -6.649  1.00 53.50      BS2
ATOM  33957  C   PHE B 181     156.956 148.944  -8.491  1.00 92.29      BS2
ATOM  33958  O   PHE B 181     155.995 149.589  -8.085  1.00 92.29      BS2
ATOM  33959  N   ILE B 182     157.946 149.481  -9.186  1.00 28.97      BS2
ATOM  33960  CA  ILE B 182     157.969 150.899  -9.516  1.00 28.97      BS2
ATOM  33961  CB  ILE B 182     159.415 151.421  -9.435  1.00 15.73      BS2
ATOM  33962  CG2 ILE B 182     159.489 152.865  -9.956  1.00 15.73      BS2
ATOM  33963  CG1 ILE B 182     159.920 151.259  -7.993  1.00 15.73      BS2
ATOM  33964  CD1 ILE B 182     161.391 151.611  -7.786  1.00 15.73      BS2
ATOM  33965  C   ILE B 182     157.390 151.205 -10.907  1.00 28.97      BS2
ATOM  33966  O   ILE B 182     157.954 150.801 -11.917  1.00 28.97      BS2
ATOM  33967  N   PRO B 183     156.261 151.933 -10.975  1.00 53.28      BS2
ATOM  33968  CD  PRO B 183     155.593 152.659  -9.884  1.00 85.27      BS2
ATOM  33969  CA  PRO B 183     155.649 152.266 -12.268  1.00 53.28      BS2
ATOM  33970  CB  PRO B 183     154.763 153.453 -11.930  1.00 85.27      BS2
ATOM  33971  CG  PRO B 183     154.325 153.138 -10.551  1.00 85.27      BS2
ATOM  33972  C   PRO B 183     156.696 152.624 -13.316  1.00 53.28      BS2
ATOM  33973  O   PRO B 183     157.699 153.274 -13.014  1.00 53.28      BS2
ATOM  33974  N   VAL B 184     156.471 152.203 -14.549  1.00 35.00      BS2
ATOM  33975  CA  VAL B 184     157.429 152.499 -15.593  1.00 35.00      BS2
ATOM  33976  CB  VAL B 184     157.998 151.207 -16.223  1.00 38.75      BS2
ATOM  33977  CG1 VAL B 184     159.124 151.546 -17.172  1.00 38.75      BS2
ATOM  33978  CG2 VAL B 184     158.512 150.285 -15.141  1.00 38.75      BS2
ATOM  33979  C   VAL B 184     156.790 153.345 -16.677  1.00 35.00      BS2
ATOM  33980  O   VAL B 184     155.751 152.985 -17.244  1.00 35.00      BS2
ATOM  33981  N   ILE B 185     157.427 154.480 -16.949  1.00 56.00      BS2
ATOM  33982  CA  ILE B 185     156.973 155.414 -17.970  1.00 56.00      BS2
ATOM  33983  CB  ILE B 185     156.944 156.863 -17.448  1.00 54.19      BS2
ATOM  33984  CG2 ILE B 185     156.042 157.708 -18.332  1.00 54.19      BS2
ATOM  33985  CG1 ILE B 185     156.441 156.905 -16.003  1.00 54.19      BS2
ATOM  33986  CD1 ILE B 185     157.428 156.384 -14.960  1.00 54.19      BS2
ATOM  33987  C   ILE B 185     158.035 155.347 -19.044  1.00 56.00      BS2
ATOM  33988  O   ILE B 185     159.222 155.269 -18.724  1.00 56.00      BS2
ATOM  33989  N   ALA B 186     157.636 155.382 -20.310  1.00 41.65      BS2
ATOM  33990  CA  ALA B 186     158.645 155.328 -21.355  1.00 41.65      BS2
ATOM  33991  CB  ALA B 186     159.140 153.924 -21.489  1.00 43.39      BS2
ATOM  33992  C   ALA B 186     158.251 155.852 -22.721  1.00 41.65      BS2
ATOM  33993  O   ALA B 186     157.172 155.545 -23.236  1.00 41.65      BS2
ATOM  33994  N   LEU B 187     159.141 156.649 -23.305  1.00 48.45      BS2
ATOM  33995  CA  LEU B 187     158.927 157.191 -24.642  1.00 48.45      BS2
ATOM  33996  CB  LEU B 187     159.801 158.427 -24.860  1.00 37.28      BS2
ATOM  33997  CG  LEU B 187     159.650 159.227 -26.158  1.00 37.28      BS2
ATOM  33998  CD1 LEU B 187     160.169 158.443 -27.326  1.00 37.28      BS2
ATOM  33999  CD2 LEU B 187     158.195 159.593 -26.370  1.00 37.28      BS2
ATOM  34000  C   LEU B 187     159.435 156.063 -25.506  1.00 48.45      BS2
ATOM  34001  O   LEU B 187     160.627 155.991 -25.762  1.00 48.45      BS2
ATOM  34002  N   ALA B 188     158.556 155.174 -25.952  1.00 63.51      BS2
ATOM  34003  CA  ALA B 188     159.013 154.035 -26.746  1.00 63.51      BS2
ATOM  34004  CB  ALA B 188     158.760 152.754 -25.983  1.00 39.17      BS2
ATOM  34005  C   ALA B 188     158.410 153.918 -28.126  1.00 63.51      BS2
ATOM  34006  O   ALA B 188     157.577 154.725 -28.522  1.00 63.51      BS2
ATOM  34007  N   ASP B 189     158.845 152.900 -28.862  1.00 78.36      BS2
ATOM  34008  CA  ASP B 189     158.326 152.664 -30.199  1.00 78.36      BS2
ATOM  34009  CB  ASP B 189     158.727 153.798 -31.141  1.00105.84      BS2
ATOM  34010  CG  ASP B 189     160.137 153.659 -31.642  1.00105.84      BS2
ATOM  34011  OD1 ASP B 189     161.050 153.541 -30.799  1.00105.84      BS2
ATOM  34012  OD2 ASP B 189     160.328 153.670 -32.876  1.00105.84      BS2
ATOM  34013  C   ASP B 189     158.767 151.332 -30.793  1.00 78.36      BS2
ATOM  34014  O   ASP B 189     159.447 150.536 -30.149  1.00 78.36      BS2
ATOM  34015  N   THR B 190     158.354 151.127 -32.038  1.00 51.54      BS2
ATOM  34016  CA  THR B 190     158.612 149.938 -32.840  1.00 51.54      BS2
ATOM  34017  CB  THR B 190     159.085 150.367 -34.229  1.00 57.18      BS2
ATOM  34018  OG1 THR B 190     158.321 151.505 -34.641  1.00 57.18      BS2
ATOM  34019  CG2 THR B 190     158.883 149.248 -35.242  1.00 57.18      BS2
ATOM  34020  C   THR B 190     159.569 148.875 -32.299  1.00 51.54      BS2
ATOM  34021  O   THR B 190     159.215 147.695 -32.218  1.00 51.54      BS2
ATOM  34022  N   ASP B 191     160.776 149.291 -31.928  1.00 65.62      BS2
ATOM  34023  CA  ASP B 191     161.795 148.366 -31.436  1.00 65.62      BS2
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ATOM  34024  CB  ASP B 191     163.185 149.005 -31.600  1.00118.54       BS2
ATOM  34025  CG  ASP B 191     163.466 150.101 -30.566  1.00118.54       BS2
ATOM  34026  OD1 ASP B 191     162.570 150.933 -30.306  1.00118.54       BS2
ATOM  34027  OD2 ASP B 191     164.594 150.139 -30.021  1.00118.54       BS2
ATOM  34028  C   ASP B 191     161.660 147.856 -30.001  1.00 65.62       BS2
ATOM  34029  O   ASP B 191     162.633 147.352 -29.456  1.00 65.62       BS2
ATOM  34030  N   SER B 192     160.486 147.953 -29.383  1.00 65.30       BS2
ATOM  34031  CA  SER B 192     160.365 147.505 -27.993  1.00 65.30       BS2
ATOM  34032  CB  SER B 192     160.511 148.704 -27.053  1.00117.97       BS2
ATOM  34033  OG  SER B 192     159.706 149.785 -27.484  1.00117.97       BS2
ATOM  34034  C   SER B 192     159.117 146.716 -27.612  1.00 65.30       BS2
ATOM  34035  O   SER B 192     158.248 146.465 -28.445  1.00 65.30       BS2
ATOM  34036  N   ASP B 193     159.040 146.334 -26.335  1.00 46.11       BS2
ATOM  34037  CA  ASP B 193     157.919 145.544 -25.822  1.00 46.11       BS2
ATOM  34038  CB  ASP B 193     158.439 144.378 -24.973  1.00109.13       BS2
ATOM  34039  CG  ASP B 193     157.334 143.426 -24.542  1.00109.13       BS2
ATOM  34040  OD1 ASP B 193     156.344 143.894 -23.946  1.00109.13       BS2
ATOM  34041  OD2 ASP B 193     157.455 142.208 -24.793  1.00109.13       BS2
ATOM  34042  C   ASP B 193     156.975 146.377 -24.983  1.00 46.11       BS2
ATOM  34043  O   ASP B 193     157.223 146.606 -23.802  1.00 46.11       BS2
ATOM  34044  N   PRO B 194     155.859 146.817 -25.577  1.00 37.46       BS2
ATOM  34045  CD  PRO B 194     155.356 146.369 -26.885  1.00 29.16       BS2
ATOM  34046  CA  PRO B 194     154.858 147.637 -24.885  1.00 37.46       BS2
ATOM  34047  CB  PRO B 194     153.706 147.699 -25.890  1.00 29.16       BS2
ATOM  34048  CG  PRO B 194     153.869 146.441 -26.687  1.00 29.16       BS2
ATOM  34049  C   PRO B 194     154.424 147.091 -23.524  1.00 37.46       BS2
ATOM  34050  O   PRO B 194     154.531 147.784 -22.512  1.00 37.46       BS2
ATOM  34051  N   ASP B 195     153.942 145.851 -23.519  1.00 46.43       BS2
ATOM  34052  CA  ASP B 195     153.475 145.165 -22.317  1.00 46.43       BS2
ATOM  34053  CB  ASP B 195     153.426 143.655 -22.576  1.00187.04       BS2
ATOM  34054  CG  ASP B 195     152.653 143.301 -23.837  1.00187.04       BS2
ATOM  34055  OD1 ASP B 195     153.063 143.745 -24.929  1.00187.04       BS2
ATOM  34056  OD2 ASP B 195     151.638 142.579 -23.737  1.00187.04       BS2
ATOM  34057  C   ASP B 195     154.321 145.437 -21.063  1.00 46.43       BS2
ATOM  34058  O   ASP B 195     153.803 145.453 -19.940  1.00 46.43       BS2
ATOM  34059  N   LEU B 196     155.617 145.653 -21.251  1.00 35.83       BS2
ATOM  34060  CA  LEU B 196     156.511 145.910 -20.133  1.00 35.83       BS2
ATOM  34061  CB  LEU B 196     157.926 145.572 -20.536  1.00 45.09       BS2
ATOM  34062  CG  LEU B 196     158.052 144.075 -20.614  1.00 45.09       BS2
ATOM  34063  CD1 LEU B 196     159.364 143.712 -21.256  1.00 45.09       BS2
ATOM  34064  CD2 LEU B 196     157.941 143.522 -19.213  1.00 45.09       BS2
ATOM  34065  C   LEU B 196     156.480 147.335 -19.603  1.00 35.83       BS2
ATOM  34066  O   LEU B 196     157.156 147.659 -18.623  1.00 35.83       BS2
ATOM  34067  N   VAL B 197     155.703 148.190 -20.248  1.00 51.58       BS2
ATOM  34068  CA  VAL B 197     155.632 149.564 -19.811  1.00 51.58       BS2
ATOM  34069  CB  VAL B 197     156.024 150.511 -20.926  1.00 47.75       BS2
ATOM  34070  CG1 VAL B 197     156.759 151.703 -20.338  1.00 47.75       BS2
ATOM  34071  CG2 VAL B 197     156.869 149.784 -21.951  1.00 47.75       BS2
ATOM  34072  C   VAL B 197     154.242 149.923 -19.329  1.00 51.58       BS2
ATOM  34073  O   VAL B 197     153.245 149.801 -20.058  1.00 51.58       BS2
ATOM  34074  N   ASP B 198     154.206 150.374 -18.081  1.00 61.80       BS2
ATOM  34075  CA  ASP B 198     152.989 150.768 -17.395  1.00 61.80       BS2
ATOM  34076  CB  ASP B 198     153.370 151.164 -15.971  1.00 63.92       BS2
ATOM  34077  CG  ASP B 198     154.209 150.085 -15.274  1.00 63.92       BS2
ATOM  34078  OD1 ASP B 198     153.626 149.087 -14.803  1.00 63.92       BS2
ATOM  34079  OD2 ASP B 198     155.451 150.219 -15.214  1.00 63.92       BS2
ATOM  34080  C   ASP B 198     152.266 151.897 -18.138  1.00 61.80       BS2
ATOM  34081  O   ASP B 198     151.077 151.781 -18.434  1.00 61.80       BS2
ATOM  34082  N   TYR B 199     152.982 152.984 -18.432  1.00 85.96       BS2
ATOM  34083  CA  TYR B 199     152.430 154.118 -19.186  1.00 85.96       BS2
ATOM  34084  CB  TYR B 199     152.165 155.339 -18.293  1.00 66.61       BS2
ATOM  34085  CG  TYR B 199     151.476 155.059 -16.973  1.00 66.61       BS2
ATOM  34086  CD1 TYR B 199     152.214 154.908 -15.799  1.00 66.61       BS2
ATOM  34087  CE1 TYR B 199     151.584 154.656 -14.573  1.00 66.61       BS2
ATOM  34088  CD2 TYR B 199     150.084 154.951 -16.895  1.00 66.61       BS2
ATOM  34089  CE2 TYR B 199     149.440 154.697 -15.674  1.00 66.61       BS2
ATOM  34090  CZ  TYR B 199     150.196 154.548 -14.516  1.00 66.61       BS2
ATOM  34091  OH  TYR B 199     149.576 154.269 -13.311  1.00 66.61       BS2
ATOM  34092  C   TYR B 199     153.486 154.496 -20.227  1.00 85.96       BS2
ATOM  34093  O   TYR B 199     154.595 154.917 -19.877  1.00 85.96       BS2
ATOM  34094  N   ILE B 200     153.149 154.342 -21.503  1.00 35.53       BS2
ATOM  34095  CA  ILE B 200     154.094 154.655 -22.578  1.00 35.53       BS2
ATOM  34096  CB  ILE B 200     154.251 153.493 -23.601  1.00 44.01       BS2
ATOM  34097  CG2 ILE B 200     155.199 152.458 -23.085  1.00 44.01       BS2
ATOM  34098  CG1 ILE B 200     152.881 152.907 -23.956  1.00 44.01       BS2
ATOM  34099  CD1 ILE B 200     152.031 153.798 -24.826  1.00 44.01       BS2
ATOM  34100  C   ILE B 200     153.766 155.854 -23.427  1.00 35.53       BS2
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ATOM  34101  O   ILE B 200     152.627 156.302 -23.498  1.00 35.53       BS2
ATOM  34102  N   ILE B 201     154.797 156.345 -24.094  1.00 46.75       BS2
ATOM  34103  CA  ILE B 201     154.658 157.446 -25.021  1.00 46.75       BS2
ATOM  34104  CB  ILE B 201     155.401 158.702 -24.561  1.00 65.30       BS2
ATOM  34105  CG2 ILE B 201     155.059 159.862 -25.482  1.00 65.30       BS2
ATOM  34106  CG1 ILE B 201     154.988 159.052 -23.134  1.00 65.30       BS2
ATOM  34107  CD1 ILE B 201     155.825 160.147 -22.507  1.00 65.30       BS2
ATOM  34108  C   ILE B 201     155.331 156.878 -26.254  1.00 46.75       BS2
ATOM  34109  O   ILE B 201     156.558 156.869 -26.360  1.00 46.75       BS2
ATOM  34110  N   PRO B 202     154.529 156.340 -27.179  1.00 35.37       BS2
ATOM  34111  CD  PRO B 202     153.083 156.131 -27.011  1.00 23.28       BS2
ATOM  34112  CA  PRO B 202     154.992 155.744 -28.430  1.00 35.37       BS2
ATOM  34113  CB  PRO B 202     153.785 154.928 -28.877  1.00 23.28       BS2
ATOM  34114  CG  PRO B 202     152.647 155.749 -28.397  1.00 23.28       BS2
ATOM  34115  C   PRO B 202     155.421 156.782 -29.467  1.00 35.37       BS2
ATOM  34116  O   PRO B 202     154.622 157.613 -29.891  1.00 35.37       BS2
ATOM  34117  N   GLY B 203     156.689 156.725 -29.863  1.00 68.62       BS2
ATOM  34118  CA  GLY B 203     157.210 157.664 -30.838  1.00 68.62       BS2
ATOM  34119  C   GLY B 203     158.726 157.665 -30.854  1.00 68.62       BS2
ATOM  34120  O   GLY B 203     159.350 157.408 -29.825  1.00 68.62       BS2
ATOM  34121  N   ASN B 204     159.310 157.960 -32.018  1.00 49.72       BS2
ATOM  34122  CA  ASN B 204     160.763 157.993 -32.208  1.00 49.72       BS2
ATOM  34123  CB  ASN B 204     161.133 159.147 -33.135  1.00156.63       BS2
ATOM  34124  CG  ASN B 204     160.444 159.047 -34.473  1.00156.63       BS2
ATOM  34125  OD1 ASN B 204     159.217 158.976 -34.545  1.00156.63       BS2
ATOM  34126  ND2 ASN B 204     161.227 159.035 -35.544  1.00156.63       BS2
ATOM  34127  C   ASN B 204     161.563 158.096 -30.919  1.00 49.72       BS2
ATOM  34128  O   ASN B 204     161.785 159.183 -30.401  1.00 49.72       BS2
ATOM  34129  N   ASP B 205     161.987 156.948 -30.402  1.00 55.81       BS2
ATOM  34130  CA  ASP B 205     162.768 156.894 -29.175  1.00 55.81       BS2
ATOM  34131  CB  ASP B 205     162.805 155.459 -28.634  1.00165.15       BS2
ATOM  34132  CG  ASP B 205     163.554 154.507 -29.551  1.00165.15       BS2
ATOM  34133  OD1 ASP B 205     163.224 154.444 -30.752  1.00165.15       BS2
ATOM  34134  OD2 ASP B 205     164.474 153.816 -29.072  1.00165.15       BS2
ATOM  34135  C   ASP B 205     164.182 157.365 -29.477  1.00 55.81       BS2
ATOM  34136  O   ASP B 205     164.938 157.717 -28.574  1.00 55.81       BS2
ATOM  34137  N   ASP B 206     164.526 157.372 -30.760  1.00 89.87       BS2
ATOM  34138  CA  ASP B 206     165.848 157.781 -31.213  1.00 89.87       BS2
ATOM  34139  CB  ASP B 206     166.525 156.606 -31.924  1.00201.26       BS2
ATOM  34140  CG  ASP B 206     167.986 156.860 -32.211  1.00201.26       BS2
ATOM  34141  OD1 ASP B 206     168.762 157.004 -31.245  1.00201.26       BS2
ATOM  34142  OD2 ASP B 206     168.359 156.911 -33.402  1.00201.26       BS2
ATOM  34143  C   ASP B 206     165.696 158.956 -32.173  1.00 89.87       BS2
ATOM  34144  O   ASP B 206     165.579 158.762 -33.384  1.00 89.87       BS2
ATOM  34145  N   ALA B 207     165.687 160.170 -31.622  1.00 88.10       BS2
ATOM  34146  CA  ALA B 207     165.541 161.401 -32.409  1.00 88.10       BS2
ATOM  34147  CB  ALA B 207     164.305 161.316 -33.303  1.00143.93       BS2
ATOM  34148  C   ALA B 207     165.423 162.605 -31.481  1.00 88.10       BS2
ATOM  34149  O   ALA B 207     164.347 162.890 -30.961  1.00 88.10       BS2
ATOM  34150  N   ILE B 208     166.532 163.312 -31.288  1.00 70.93       BS2
ATOM  34151  CA  ILE B 208     166.571 164.476 -30.410  1.00 70.93       BS2
ATOM  34152  CB  ILE B 208     167.807 165.354 -30.697  1.00 97.42       BS2
ATOM  34153  CG2 ILE B 208     167.680 166.695 -29.984  1.00 97.42       BS2
ATOM  34154  CG1 ILE B 208     169.068 164.632 -30.224  1.00 97.42       BS2
ATOM  34155  CD1 ILE B 208     170.323 165.480 -30.282  1.00 97.42       BS2
ATOM  34156  C   ILE B 208     165.333 165.367 -30.444  1.00 70.93       BS2
ATOM  34157  O   ILE B 208     164.601 165.454 -29.457  1.00 70.93       BS2
ATOM  34158  N   ARG B 209     165.104 166.041 -31.566  1.00 90.94       BS2
ATOM  34159  CA  ARG B 209     163.951 166.927 -31.676  1.00 90.94       BS2
ATOM  34160  CB  ARG B 209     163.693 167.264 -33.152  1.00170.01       BS2
ATOM  34161  CG  ARG B 209     162.586 168.284 -33.391  1.00170.01       BS2
ATOM  34162  CD  ARG B 209     162.818 169.585 -32.633  1.00170.01       BS2
ATOM  34163  NE  ARG B 209     163.936 170.363 -33.162  1.00170.01       BS2
ATOM  34164  CZ  ARG B 209     163.961 170.912 -34.372  1.00170.01       BS2
ATOM  34165  NH1 ARG B 209     162.928 170.767 -35.191  1.00170.01       BS2
ATOM  34166  NH2 ARG B 209     165.015 171.615 -34.761  1.00170.01       BS2
ATOM  34167  C   ARG B 209     162.727 166.262 -31.037  1.00 90.94       BS2
ATOM  34168  O   ARG B 209     161.976 166.893 -30.285  1.00 90.94       BS2
ATOM  34169  N   SER B 210     162.561 164.972 -31.319  1.00 71.50       BS2
ATOM  34170  CA  SER B 210     161.457 164.170 -30.794  1.00 71.50       BS2
ATOM  34171  CB  SER B 210     161.462 162.805 -31.482  1.00 75.86       BS2
ATOM  34172  OG  SER B 210     160.588 161.904 -30.835  1.00 75.86       BS2
ATOM  34173  C   SER B 210     161.538 163.983 -29.275  1.00 71.50       BS2
ATOM  34174  O   SER B 210     160.601 164.299 -28.539  1.00 71.50       BS2
ATOM  34175  N   ILE B 211     162.668 163.454 -28.823  1.00 61.97       BS2
ATOM  34176  CA  ILE B 211     162.917 163.217 -27.410  1.00 61.97       BS2
ATOM  34177  CB  ILE B 211     164.359 162.767 -27.187  1.00 68.48       BS2
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ATOM  34178  CG2 ILE B 211     164.537 162.289 -25.765  1.00 68.48       BS2
ATOM  34179  CG1 ILE B 211     164.714 161.664 -28.180  1.00 68.48       BS2
ATOM  34180  CD1 ILE B 211     166.207 161.492 -28.391  1.00 68.48       BS2
ATOM  34181  C   ILE B 211     162.711 164.507 -26.635  1.00 61.97       BS2
ATOM  34182  O   ILE B 211     161.783 164.623 -25.839  1.00 61.97       BS2
ATOM  34183  N   GLN B 212     163.595 165.470 -26.881  1.00 99.27       BS2
ATOM  34184  CA  GLN B 212     163.556 166.774 -26.228  1.00 99.27       BS2
ATOM  34185  CB  GLN B 212     164.370 167.785 -27.043  1.00113.56       BS2
ATOM  34186  CG  GLN B 212     164.479 169.186 -26.440  1.00113.56       BS2
ATOM  34187  CD  GLN B 212     163.197 169.991 -26.556  1.00113.56       BS2
ATOM  34188  OE1 GLN B 212     162.638 170.145 -27.645  1.00113.56       BS2
ATOM  34189  NE2 GLN B 212     162.730 170.516 -25.431  1.00113.56       BS2
ATOM  34190  C   GLN B 212     162.129 167.271 -26.063  1.00 99.27       BS2
ATOM  34191  O   GLN B 212     161.750 167.739 -24.991  1.00 99.27       BS2
ATOM  34192  N   LEU B 213     161.336 167.166 -27.122  1.00 49.26       BS2
ATOM  34193  CA  LEU B 213     159.953 167.616 -27.060  1.00 49.26       BS2
ATOM  34194  CB  LEU B 213     159.241 167.331 -28.388  1.00 43.99       BS2
ATOM  34195  CG  LEU B 213     157.872 167.991 -28.597  1.00 43.99       BS2
ATOM  34196  CD1 LEU B 213     157.449 167.802 -30.041  1.00 43.99       BS2
ATOM  34197  CD2 LEU B 213     156.836 167.415 -27.643  1.00 43.99       BS2
ATOM  34198  C   LEU B 213     159.231 166.913 -25.918  1.00 49.26       BS2
ATOM  34199  O   LEU B 213     158.931 167.522 -24.898  1.00 49.26       BS2
ATOM  34200  N   ILE B 214     158.959 165.626 -26.100  1.00 66.40       BS2
ATOM  34201  CA  ILE B 214     158.269 164.827 -25.095  1.00 66.40       BS2
ATOM  34202  CB  ILE B 214     158.405 163.332 -25.408  1.00 52.67       BS2
ATOM  34203  CG2 ILE B 214     157.870 162.501 -24.267  1.00 52.67       BS2
ATOM  34204  CG1 ILE B 214     157.646 163.014 -26.684  1.00 52.67       BS2
ATOM  34205  CD1 ILE B 214     156.246 163.538 -26.680  1.00 52.67       BS2
ATOM  34206  C   ILE B 214     158.755 165.066 -23.671  1.00 66.40       BS2
ATOM  34207  O   ILE B 214     157.995 165.539 -22.824  1.00 66.40       BS2
ATOM  34208  N   LEU B 215     160.012 164.718 -23.407  1.00 54.86       BS2
ATOM  34209  CA  LEU B 215     160.580 164.907 -22.082  1.00 54.86       BS2
ATOM  34210  CB  LEU B 215     162.096 164.763 -22.111  1.00 56.56       BS2
ATOM  34211  CG  LEU B 215     162.655 163.355 -21.967  1.00 56.56       BS2
ATOM  34212  CD1 LEU B 215     164.159 163.443 -21.741  1.00 56.56       BS2
ATOM  34213  CD2 LEU B 215     161.996 162.662 -20.787  1.00 56.56       BS2
ATOM  34214  C   LEU B 215     160.230 166.274 -21.527  1.00 54.86       BS2
ATOM  34215  O   LEU B 215     159.364 166.389 -20.667  1.00 54.86       BS2
ATOM  34216  N   SER B 216     160.910 167.304 -22.023  1.00 53.93       BS2
ATOM  34217  CA  SER B 216     160.681 168.678 -21.584  1.00 53.93       BS2
ATOM  34218  CB  SER B 216     160.962 169.644 -22.729  1.00 66.69       BS2
ATOM  34219  OG  SER B 216     160.095 169.381 -23.817  1.00 66.69       BS2
ATOM  34220  C   SER B 216     159.251 168.863 -21.102  1.00 53.93       BS2
ATOM  34221  O   SER B 216     159.028 169.216 -19.945  1.00 53.93       BS2
ATOM  34222  N   ARG B 217     158.293 168.613 -21.997  1.00 64.65       BS2
ATOM  34223  CA  ARG B 217     156.870 168.730 -21.683  1.00 64.65       BS2
ATOM  34224  CB  ARG B 217     156.036 168.029 -22.755  1.00113.28       BS2
ATOM  34225  CG  ARG B 217     156.149 168.639 -24.139  1.00113.28       BS2
ATOM  34226  CD  ARG B 217     155.358 169.938 -24.267  1.00113.28       BS2
ATOM  34227  NE  ARG B 217     155.365 170.422 -25.648  1.00113.28       BS2
ATOM  34228  CZ  ARG B 217     154.602 171.410 -26.110  1.00113.28       BS2
ATOM  34229  NH1 ARG B 217     153.758 172.032 -25.298  1.00113.28       BS2
ATOM  34230  NH2 ARG B 217     154.679 171.771 -27.386  1.00113.28       BS2
ATOM  34231  C   ARG B 217     156.583 168.097 -20.324  1.00 64.65       BS2
ATOM  34232  O   ARG B 217     156.052 168.745 -19.416  1.00 64.65       BS2
ATOM  34233  N   ALA B 218     156.935 166.824 -20.189  1.00 47.11       BS2
ATOM  34234  CA  ALA B 218     156.727 166.117 -18.933  1.00 47.11       BS2
ATOM  34235  CB  ALA B 218     157.290 164.701 -19.035  1.00120.49       BS2
ATOM  34236  C   ALA B 218     157.388 166.875 -17.774  1.00 47.11       BS2
ATOM  34237  O   ALA B 218     156.938 166.808 -16.634  1.00 47.11       BS2
ATOM  34238  N   VAL B 219     158.464 167.589 -18.070  1.00 69.25       BS2
ATOM  34239  CA  VAL B 219     159.142 168.344 -17.036  1.00 69.25       BS2
ATOM  34240  CB  VAL B 219     160.557 168.765 -17.468  1.00 53.86       BS2
ATOM  34241  CG1 VAL B 219     161.339 169.276 -16.262  1.00 53.86       BS2
ATOM  34242  CG2 VAL B 219     161.263 167.597 -18.102  1.00 53.86       BS2
ATOM  34243  C   VAL B 219     158.303 169.584 -16.785  1.00 69.25       BS2
ATOM  34244  O   VAL B 219     158.192 170.060 -15.650  1.00 69.25       BS2
ATOM  34245  N   ASP B 220     157.713 170.116 -17.849  1.00 63.36       BS2
ATOM  34246  CA  ASP B 220     156.870 171.283 -17.690  1.00 63.36       BS2
ATOM  34247  CB  ASP B 220     156.166 171.658 -19.003  1.00145.51       BS2
ATOM  34248  CG  ASP B 220     157.140 172.020 -20.115  1.00145.51       BS2
ATOM  34249  OD1 ASP B 220     158.123 172.745 -19.849  1.00145.51       BS2
ATOM  34250  OD2 ASP B 220     156.910 171.590 -21.265  1.00145.51       BS2
ATOM  34251  C   ASP B 220     155.842 170.826 -16.675  1.00 63.36       BS2
ATOM  34252  O   ASP B 220     155.845 171.275 -15.529  1.00 63.36       BS2
ATOM  34253  N   LEU B 221     154.999 169.891 -17.106  1.00 55.91       BS2
ATOM  34254  CA  LEU B 221     153.936 169.329 -16.280  1.00 55.91       BS2
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ATOM  34255  CB  LEU B 221     153.367 168.084 -16.951  1.00 72.20       BS2
ATOM  34256  CG  LEU B 221     152.290 168.362 -18.001  1.00 72.20       BS2
ATOM  34257  CD1 LEU B 221     150.944 168.463 -17.304  1.00 72.20       BS2
ATOM  34258  CD2 LEU B 221     152.616 169.641 -18.799  1.00 72.20       BS2
ATOM  34259  C   LEU B 221     154.339 169.001 -14.854  1.00 55.91       BS2
ATOM  34260  O   LEU B 221     153.526 169.113 -13.941  1.00 55.91       BS2
ATOM  34261  N   ILE B 222     155.584 168.581 -14.657  1.00 58.70       BS2
ATOM  34262  CA  ILE B 222     156.040 168.264 -13.314  1.00 58.70       BS2
ATOM  34263  CB  ILE B 222     157.466 167.694 -13.311  1.00 44.11       BS2
ATOM  34264  CG2 ILE B 222     158.067 167.805 -11.918  1.00 44.11       BS2
ATOM  34265  CG1 ILE B 222     157.443 166.240 -13.786  1.00 44.11       BS2
ATOM  34266  CD1 ILE B 222     158.755 165.509 -13.570  1.00 44.11       BS2
ATOM  34267  C   ILE B 222     156.029 169.550 -12.519  1.00 58.70       BS2
ATOM  34268  O   ILE B 222     155.425 169.628 -11.445  1.00 58.70       BS2
ATOM  34269  N   ILE B 223     156.702 170.558 -13.068  1.00 57.53       BS2
ATOM  34270  CA  ILE B 223     156.793 171.875 -12.442  1.00 57.53       BS2
ATOM  34271  CB  ILE B 223     157.852 172.738 -13.163  1.00 78.19       BS2
ATOM  34272  CG2 ILE B 223     157.541 174.210 -12.996  1.00 78.19       BS2
ATOM  34273  CG1 ILE B 223     159.239 172.387 -12.613  1.00 78.19       BS2
ATOM  34274  CD1 ILE B 223     160.384 173.075 -13.308  1.00 78.19       BS2
ATOM  34275  C   ILE B 223     155.434 172.563 -12.460  1.00 57.53       BS2
ATOM  34276  O   ILE B 223     154.967 173.051 -11.430  1.00 57.53       BS2
ATOM  34277  N   GLN B 224     154.814 172.589 -13.640  1.00 79.46       BS2
ATOM  34278  CA  GLN B 224     153.488 173.172 -13.842  1.00 79.46       BS2
ATOM  34279  CB  GLN B 224     153.102 173.066 -15.325  1.00154.07       BS2
ATOM  34280  CG  GLN B 224     151.681 173.499 -15.671  1.00154.07       BS2
ATOM  34281  CD  GLN B 224     151.332 173.253 -17.132  1.00154.07       BS2
ATOM  34282  OE1 GLN B 224     151.500 172.147 -17.646  1.00154.07       BS2
ATOM  34283  NE2 GLN B 224     150.839 174.287 -17.804  1.00154.07       BS2
ATOM  34284  C   GLN B 224     152.515 172.367 -12.977  1.00 79.46       BS2
ATOM  34285  O   GLN B 224     151.425 171.992 -13.411  1.00 79.46       BS2
ATOM  34286  N   ALA B 225     152.933 172.106 -11.744  1.00107.28       BS2
ATOM  34287  CA  ALA B 225     152.150 171.338 -10.796  1.00107.28       BS2
ATOM  34288  CB  ALA B 225     152.171 169.877 -11.187  1.00 20.86       BS2
ATOM  34289  C   ALA B 225     152.750 171.513  -9.409  1.00107.28       BS2
ATOM  34290  O   ALA B 225     152.379 170.815  -8.465  1.00107.28       BS2
ATOM  34291  N   ARG B 226     153.686 172.446  -9.292  1.00160.93       BS2
ATOM  34292  CA  ARG B 226     154.331 172.704  -8.015  1.00160.93       BS2
ATOM  34293  CB  ARG B 226     155.607 171.872  -7.900  1.00126.71       BS2
ATOM  34294  CG  ARG B 226     155.380 170.373  -8.023  1.00126.71       BS2
ATOM  34295  CD  ARG B 226     156.692 169.618  -7.912  1.00126.71       BS2
ATOM  34296  NE  ARG B 226     157.676 170.112  -8.871  1.00126.71       BS2
ATOM  34297  CZ  ARG B 226     158.940 169.706  -8.923  1.00126.71       BS2
ATOM  34298  NH1 ARG B 226     159.381 168.792  -8.067  1.00126.71       BS2
ATOM  34299  NH2 ARG B 226     159.765 170.218  -9.826  1.00126.71       BS2
ATOM  34300  C   ARG B 226     154.648 174.188  -7.836  1.00160.93       BS2
ATOM  34301  O   ARG B 226     155.763 174.556  -7.461  1.00160.93       BS2
ATOM  34302  N   GLY B 227     153.652 175.029  -8.110  1.00201.26       BS2
ATOM  34303  CA  GLY B 227     153.799 176.470  -7.971  1.00201.26       BS2
ATOM  34304  C   GLY B 227     155.158 177.033  -8.336  1.00201.26       BS2
ATOM  34305  O   GLY B 227     155.747 177.800  -7.573  1.00201.26       BS2
ATOM  34306  N   GLY B 228     155.657 176.657  -9.508  1.00148.32       BS2
ATOM  34307  CA  GLY B 228     156.953 177.141  -9.942  1.00148.32       BS2
ATOM  34308  C   GLY B 228     156.901 177.778 -11.315  1.00148.32       BS2
ATOM  34309  O   GLY B 228     157.891 178.360 -11.760  1.00148.32       BS2
ATOM  34310  N   VAL B 229     155.748 177.665 -11.975  1.00194.64       BS2
ATOM  34311  CA  VAL B 229     155.529 178.220 -13.312  1.00194.64       BS2
ATOM  34312  CB  VAL B 229     154.510 179.381 -13.271  1.00125.04       BS2
ATOM  34313  CG1 VAL B 229     154.182 179.841 -14.685  1.00125.04       BS2
ATOM  34314  CG2 VAL B 229     153.250 178.939 -12.543  1.00125.04       BS2
ATOM  34315  C   VAL B 229     156.833 178.723 -13.921  1.00194.64       BS2
ATOM  34316  O   VAL B 229     157.076 179.928 -14.004  1.00194.64       BS2
ATOM  34317  N   VAL B 230     157.673 177.783 -14.339  1.00183.51       BS2
ATOM  34318  CA  VAL B 230     158.969 178.107 -14.916  1.00183.51       BS2
ATOM  34319  CB  VAL B 230     159.968 176.946 -14.678  1.00184.46       BS2
ATOM  34320  CG1 VAL B 230     161.354 177.323 -15.172  1.00184.46       BS2
ATOM  34321  CG2 VAL B 230     160.019 176.609 -13.194  1.00184.46       BS2
ATOM  34322  C   VAL B 230     158.905 178.430 -16.409  1.00183.51       BS2
ATOM  34323  O   VAL B 230     157.943 178.086 -17.099  1.00183.51       BS2
ATOM  34324  N   GLU B 231     159.943 179.106 -16.889  1.00180.79       BS2
ATOM  34325  CA  GLU B 231     160.056 179.502 -18.285  1.00180.79       BS2
ATOM  34326  CB  GLU B 231     161.208 180.501 -18.440  1.00201.26       BS2
ATOM  34327  CG  GLU B 231     162.461 180.174 -17.618  1.00201.26       BS2
ATOM  34328  CD  GLU B 231     163.082 178.828 -17.963  1.00201.26       BS2
ATOM  34329  OE1 GLU B 231     163.321 178.567 -19.160  1.00201.26       BS2
ATOM  34330  OE2 GLU B 231     163.345 178.032 -17.036  1.00201.26       BS2
ATOM  34331  C   GLU B 231     160.275 178.315 -19.220  1.00180.79       BS2
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ATOM  34332  O   GLU B 231     160.802 177.281 -18.811  1.00180.79       BS2
ATOM  34333  N   PRO B 232     159.869 178.454 -20.495  1.00201.26       BS2
ATOM  34334  CD  PRO B 232     159.191 179.630 -21.073  1.00137.63       BS2
ATOM  34335  CA  PRO B 232     160.017 177.401 -21.503  1.00201.26       BS2
ATOM  34336  CB  PRO B 232     159.785 178.156 -22.806  1.00137.63       BS2
ATOM  34337  CG  PRO B 232     158.700 179.106 -22.415  1.00137.63       BS2
ATOM  34338  C   PRO B 232     161.368 176.680 -21.460  1.00201.26       BS2
ATOM  34339  O   PRO B 232     162.396 177.274 -21.133  1.00201.26       BS2
ATOM  34340  N   SER B 233     161.346 175.395 -21.799  1.00201.26       BS2
ATOM  34341  CA  SER B 233     162.534 174.545 -21.799  1.00201.26       BS2
ATOM  34342  CB  SER B 233     162.175 173.178 -22.391  1.00118.13       BS2
ATOM  34343  OG  SER B 233     163.269 172.282 -22.332  1.00118.13       BS2
ATOM  34344  C   SER B 233     163.743 175.126 -22.539  1.00201.26       BS2
ATOM  34345  O   SER B 233     163.638 175.539 -23.695  1.00201.26       BS2
ATOM  34346  N   PRO B 234     164.913 175.161 -21.872  1.00134.37       BS2
ATOM  34347  CD  PRO B 234     165.073 174.928 -20.422  1.00101.27       BS2
ATOM  34348  CA  PRO B 234     166.159 175.685 -22.446  1.00134.37       BS2
ATOM  34349  CB  PRO B 234     166.982 176.029 -21.208  1.00101.27       BS2
ATOM  34350  CG  PRO B 234     166.581 174.963 -20.248  1.00101.27       BS2
ATOM  34351  C   PRO B 234     166.898 174.714 -23.374  1.00134.37       BS2
ATOM  34352  O   PRO B 234     167.629 175.139 -24.269  1.00134.37       BS2
ATOM  34353  N   SER B 235     166.699 173.416 -23.154  1.00105.74       BS2
ATOM  34354  CA  SER B 235     167.346 172.363 -23.941  1.00105.74       BS2
ATOM  34355  CB  SER B 235     166.901 170.995 -23.430  1.00101.56       BS2
ATOM  34356  OG  SER B 235     165.537 170.769 -23.743  1.00101.56       BS2
ATOM  34357  C   SER B 235     167.093 172.427 -25.450  1.00105.74       BS2
ATOM  34358  O   SER B 235     167.742 171.721 -26.227  1.00105.74       BS2
ATOM  34359  N   TYR B 236     166.147 173.265 -25.860  1.00103.63       BS2
ATOM  34360  CA  TYR B 236     165.808 173.424 -27.272  1.00103.63       BS2
ATOM  34361  CB  TYR B 236     164.682 174.458 -27.408  1.00133.51       BS2
ATOM  34362  CG  TYR B 236     163.903 174.414 -28.707  1.00133.51       BS2
ATOM  34363  CD1 TYR B 236     162.778 175.218 -28.884  1.00133.51       BS2
ATOM  34364  CE1 TYR B 236     162.042 175.180 -30.064  1.00133.51       BS2
ATOM  34365  CD2 TYR B 236     164.276 173.568 -29.751  1.00133.51       BS2
ATOM  34366  CE2 TYR B 236     163.548 173.522 -30.936  1.00133.51       BS2
ATOM  34367  CZ  TYR B 236     162.430 174.329 -31.086  1.00133.51       BS2
ATOM  34368  OH  TYR B 236     161.696 174.281 -32.251  1.00133.51       BS2
ATOM  34369  C   TYR B 236     167.038 173.876 -28.064  1.00103.63       BS2
ATOM  34370  O   TYR B 236     167.004 173.970 -29.289  1.00103.63       BS2
ATOM  34371  N   ALA B 237     168.124 174.153 -27.350  1.00132.69       BS2
ATOM  34372  CA  ALA B 237     169.365 174.596 -27.972  1.00132.69       BS2
ATOM  34373  CB  ALA B 237     170.094 175.562 -27.044  1.00163.70       BS2
ATOM  34374  C   ALA B 237     170.271 173.416 -28.313  1.00132.69       BS2
ATOM  34375  O   ALA B 237     170.910 173.400 -29.366  1.00132.69       BS2
ATOM  34376  N   LEU B 238     170.324 172.435 -27.414  1.00167.05       BS2
ATOM  34377  CA  LEU B 238     171.151 171.245 -27.609  1.00167.05       BS2
ATOM  34378  CB  LEU B 238     170.992 170.292 -26.427  1.00125.49       BS2
ATOM  34379  CG  LEU B 238     171.431 170.847 -25.073  1.00125.49       BS2
ATOM  34380  CD1 LEU B 238     171.182 169.804 -24.006  1.00125.49       BS2
ATOM  34381  CD2 LEU B 238     172.905 171.225 -25.113  1.00125.49       BS2
ATOM  34382  C   LEU B 238     170.750 170.533 -28.887  1.00167.05       BS2
ATOM  34383  O   LEU B 238     171.518 169.757 -29.455  1.00167.05       BS2
ATOM  34384  N   VAL B 239     169.529 170.805 -29.323  1.00176.96       BS2
ATOM  34385  CA  VAL B 239     168.986 170.223 -30.536  1.00176.96       BS2
ATOM  34386  CB  VAL B 239     167.539 170.708 -30.731  1.00 56.72       BS2
ATOM  34387  CG1 VAL B 239     167.035 170.375 -32.120  1.00 56.72       BS2
ATOM  34388  CG2 VAL B 239     166.658 170.062 -29.681  1.00 56.72       BS2
ATOM  34389  C   VAL B 239     169.845 170.599 -31.742  1.00176.96       BS2
ATOM  34390  O   VAL B 239     169.882 169.881 -32.742  1.00176.96       BS2
ATOM  34391  N   GLN B 240     170.546 171.723 -31.634  1.00201.26       BS2
ATOM  34392  CA  GLN B 240     171.410 172.194 -32.710  1.00201.26       BS2
ATOM  34393  CB  GLN B 240     171.366 173.723 -32.787  1.00130.78       BS2
ATOM  34394  CG  GLN B 240     170.048 174.283 -33.307  1.00130.78       BS2
ATOM  34395  CD  GLN B 240     168.856 173.871 -32.467  1.00130.78       BS2
ATOM  34396  OE1 GLN B 240     168.807 174.142 -31.267  1.00130.78       BS2
ATOM  34397  NE2 GLN B 240     167.886 173.215 -33.094  1.00130.78       BS2
ATOM  34398  C   GLN B 240     172.849 171.727 -32.507  1.00201.26       BS2
ATOM  34399  O   GLN B 240     173.380 171.051 -33.415  1.00201.26       BS2
ATOM  34400  OXT GLN B 240     173.427 172.041 -31.445  1.00130.78       BS2
TER   34400       GLN B 240                                              BS2
ATOM  34401  C   GLY C   2     205.191 128.412   7.516  1.00 60.68       CS3
ATOM  34402  O   GLY C   2     206.407 128.481   7.602  1.00 60.68       CS3
ATOM  34403  N   GLY C   2     203.366 126.862   6.768  1.00 60.68       CS3
ATOM  34404  CA  GLY C   2     204.456 127.116   7.776  1.00 60.68       CS3
ATOM  34405  N   ASN C   3     204.425 129.442   7.204  1.00 62.76       CS3
ATOM  34406  CA  ASN C   3     204.947 130.762   6.900  1.00 62.76       CS3
ATOM  34407  CB  ASN C   3     204.434 131.172   5.511  1.00 80.47       CS3
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ATOM  34408  CG  ASN C   3     203.055 130.572   5.196  1.00 80.47      CS3
ATOM  34409  OD1 ASN C   3     202.764 130.189   4.064  1.00 80.47      CS3
ATOM  34410  ND2 ASN C   3     202.205 130.492   6.208  1.00 80.47      CS3
ATOM  34411  C   ASN C   3     204.501 131.769   7.969  1.00 62.76      CS3
ATOM  34412  O   ASN C   3     204.067 131.382   9.060  1.00 62.76      CS3
ATOM  34413  N   LYS C   4     204.631 133.058   7.658  1.00 79.80      CS3
ATOM  34414  CA  LYS C   4     204.222 134.147   8.554  1.00 79.80      CS3
ATOM  34415  CB  LYS C   4     202.714 134.053   8.793  1.00 49.98      CS3
ATOM  34416  CG  LYS C   4     201.920 134.608   7.617  1.00 49.98      CS3
ATOM  34417  CD  LYS C   4     200.465 134.165   7.591  1.00 49.98      CS3
ATOM  34418  CE  LYS C   4     200.344 132.668   7.384  1.00 49.98      CS3
ATOM  34419  NZ  LYS C   4     199.004 132.319   6.852  1.00 49.98      CS3
ATOM  34420  C   LYS C   4     204.960 134.332   9.882  1.00 79.80      CS3
ATOM  34421  O   LYS C   4     205.180 133.380  10.633  1.00 79.80      CS3
ATOM  34422  N   ILE C   5     205.337 135.580  10.158  1.00 81.82      CS3
ATOM  34423  CA  ILE C   5     206.051 135.924  11.385  1.00 81.82      CS3
ATOM  34424  CB  ILE C   5     207.194 136.929  11.148  1.00 47.53      CS3
ATOM  34425  CG2 ILE C   5     208.470 136.198  10.831  1.00 47.53      CS3
ATOM  34426  CG1 ILE C   5     206.788 137.942  10.083  1.00 47.53      CS3
ATOM  34427  CD1 ILE C   5     205.557 138.720  10.440  1.00 47.53      CS3
ATOM  34428  C   ILE C   5     205.191 136.559  12.454  1.00 81.82      CS3
ATOM  34429  O   ILE C   5     204.075 137.019  12.200  1.00 81.82      CS3
ATOM  34430  N   HIS C   6     205.755 136.602  13.654  1.00 52.18      CS3
ATOM  34431  CA  HIS C   6     205.106 137.194  14.804  1.00 52.18      CS3
ATOM  34432  CB  HIS C   6     206.057 137.156  15.974  1.00 90.57      CS3
ATOM  34433  CG  HIS C   6     205.404 137.455  17.271  1.00 90.57      CS3
ATOM  34434  CD2 HIS C   6     205.514 138.518  18.098  1.00 90.57      CS3
ATOM  34435  ND1 HIS C   6     204.495 136.602  17.852  1.00 90.57      CS3
ATOM  34436  CE1 HIS C   6     204.073 137.127  18.988  1.00 90.57      CS3
ATOM  34437  NE2 HIS C   6     204.676 138.290  19.160  1.00 90.57      CS3
ATOM  34438  C   HIS C   6     204.813 138.634  14.423  1.00 52.18      CS3
ATOM  34439  O   HIS C   6     205.723 139.443  14.293  1.00 52.18      CS3
ATOM  34440  N   PRO C   7     203.533 138.975  14.244  1.00 44.15      CS3
ATOM  34441  CD  PRO C   7     202.370 138.207  14.720  1.00 30.80      CS3
ATOM  34442  CA  PRO C   7     203.143 140.335  13.862  1.00 44.15      CS3
ATOM  34443  CB  PRO C   7     201.624 140.292  13.943  1.00 30.80      CS3
ATOM  34444  CG  PRO C   7     201.376 139.288  15.017  1.00 30.80      CS3
ATOM  34445  C   PRO C   7     203.751 141.391  14.760  1.00 44.15      CS3
ATOM  34446  O   PRO C   7     203.938 142.540  14.350  1.00 44.15      CS3
ATOM  34447  N   ILE C   8     204.060 140.994  15.990  1.00 38.31      CS3
ATOM  34448  CA  ILE C   8     204.673 141.910  16.937  1.00 38.31      CS3
ATOM  34449  CB  ILE C   8     204.496 141.420  18.373  1.00 77.12      CS3
ATOM  34450  CG2 ILE C   8     205.108 142.408  19.337  1.00 77.12      CS3
ATOM  34451  CG1 ILE C   8     203.012 141.250  18.676  1.00 77.12      CS3
ATOM  34452  CD1 ILE C   8     202.741 140.633  20.023  1.00 77.12      CS3
ATOM  34453  C   ILE C   8     206.160 141.977  16.601  1.00 38.31      CS3
ATOM  34454  O   ILE C   8     206.663 143.023  16.186  1.00 38.31      CS3
ATOM  34455  N   GLY C   9     206.851 140.852  16.765  1.00 63.71      CS3
ATOM  34456  CA  GLY C   9     208.267 140.804  16.454  1.00 63.71      CS3
ATOM  34457  C   GLY C   9     208.548 141.449  15.107  1.00 63.71      CS3
ATOM  34458  O   GLY C   9     209.591 142.080  14.896  1.00 63.71      CS3
ATOM  34459  N   PHE C  10     207.609 141.291  14.184  1.00 44.71      CS3
ATOM  34460  CA  PHE C  10     207.760 141.873  12.866  1.00 44.71      CS3
ATOM  34461  CB  PHE C  10     206.674 141.359  11.915  1.00 38.40      CS3
ATOM  34462  CG  PHE C  10     206.711 142.002  10.547  1.00 38.40      CS3
ATOM  34463  CD1 PHE C  10     207.870 141.987   9.785  1.00 38.40      CS3
ATOM  34464  CD2 PHE C  10     205.589 142.625  10.027  1.00 38.40      CS3
ATOM  34465  CE1 PHE C  10     207.908 142.583   8.532  1.00 38.40      CS3
ATOM  34466  CE2 PHE C  10     205.620 143.223   8.769  1.00 38.40      CS3
ATOM  34467  CZ  PHE C  10     206.780 143.202   8.024  1.00 38.40      CS3
ATOM  34468  C   PHE C  10     207.664 143.384  12.973  1.00 44.71      CS3
ATOM  34469  O   PHE C  10     208.442 144.107  12.352  1.00 44.71      CS3
ATOM  34470  N   ARG C  11     206.709 143.859  13.764  1.00 57.40      CS3
ATOM  34471  CA  ARG C  11     206.526 145.289  13.922  1.00 57.40      CS3
ATOM  34472  CB  ARG C  11     205.027 145.615  13.949  1.00 44.18      CS3
ATOM  34473  CG  ARG C  11     204.477 146.141  12.605  1.00 44.18      CS3
ATOM  34474  CD  ARG C  11     202.953 146.100  12.554  1.00 44.18      CS3
ATOM  34475  NE  ARG C  11     202.476 144.720  12.605  1.00 44.18      CS3
ATOM  34476  CZ  ARG C  11     202.025 144.035  11.557  1.00 44.18      CS3
ATOM  34477  NH1 ARG C  11     201.973 144.605  10.358  1.00 44.18      CS3
ATOM  34478  NH2 ARG C  11     201.652 142.767  11.703  1.00 44.18      CS3
ATOM  34479  C   ARG C  11     207.237 145.878  15.145  1.00 57.40      CS3
ATOM  34480  O   ARG C  11     207.127 147.074  15.407  1.00 57.40      CS3
ATOM  34481  N   LEU C  12     207.993 145.050  15.866  1.00 53.67      CS3
ATOM  34482  CA  LEU C  12     208.716 145.491  17.063  1.00 53.67      CS3
ATOM  34483  CB  LEU C  12     209.732 144.432  17.495  1.00 24.04      CS3
ATOM  34484  CG  LEU C  12     209.503 143.811  18.877  1.00 24.04      CS3
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ATOM  34485  CD1 LEU C  12     210.631 142.853  19.237  1.00 24.04      CS3
ATOM  34486  CD2 LEU C  12     209.429 144.910  19.894  1.00 24.04      CS3
ATOM  34487  C   LEU C  12     209.440 146.823  16.907  1.00 53.67      CS3
ATOM  34488  O   LEU C  12     209.505 147.619  17.845  1.00 53.67      CS3
ATOM  34489  N   GLY C  13     209.996 147.066  15.728  1.00 77.82      CS3
ATOM  34490  CA  GLY C  13     210.695 148.318  15.517  1.00 77.82      CS3
ATOM  34491  C   GLY C  13     209.763 149.510  15.622  1.00 77.82      CS3
ATOM  34492  O   GLY C  13     210.149 150.594  16.061  1.00 77.82      CS3
ATOM  34493  N   ILE C  14     208.522 149.306  15.209  1.00 66.62      CS3
ATOM  34494  CA  ILE C  14     207.533 150.364  15.254  1.00 66.62      CS3
ATOM  34495  CB  ILE C  14     207.216 150.863  13.823  1.00 84.95      CS3
ATOM  34496  CG2 ILE C  14     206.269 152.054  13.861  1.00 84.95      CS3
ATOM  34497  CG1 ILE C  14     208.518 151.294  13.140  1.00 84.95      CS3
ATOM  34498  CD1 ILE C  14     209.287 152.390  13.889  1.00 84.95      CS3
ATOM  34499  C   ILE C  14     206.285 149.820  15.933  1.00 66.62      CS3
ATOM  34500  O   ILE C  14     206.378 148.890  16.726  1.00 66.62      CS3
ATOM  34501  N   THR C  15     205.138 150.418  15.628  1.00 74.52      CS3
ATOM  34502  CA  THR C  15     203.832 150.044  16.168  1.00 74.52      CS3
ATOM  34503  CB  THR C  15     202.911 149.599  15.017  1.00128.12      CS3
ATOM  34504  OG1 THR C  15     203.454 148.429  14.392  1.00128.12      CS3
ATOM  34505  CG2 THR C  15     202.805 150.704  13.974  1.00128.12      CS3
ATOM  34506  C   THR C  15     203.792 148.971  17.266  1.00 74.52      CS3
ATOM  34507  O   THR C  15     202.887 148.133  17.274  1.00 74.52      CS3
ATOM  34508  N   ARG C  16     204.744 149.017  18.199  1.00 52.27      CS3
ATOM  34509  CA  ARG C  16     204.829 148.038  19.287  1.00 52.27      CS3
ATOM  34510  CB  ARG C  16     204.583 146.633  18.745  1.00 93.29      CS3
ATOM  34511  CG  ARG C  16     204.480 145.569  19.803  1.00 93.29      CS3
ATOM  34512  CD  ARG C  16     203.076 145.455  20.345  1.00 93.29      CS3
ATOM  34513  NE  ARG C  16     203.003 144.401  21.351  1.00 93.29      CS3
ATOM  34514  CZ  ARG C  16     201.873 143.941  21.880  1.00 93.29      CS3
ATOM  34515  NH1 ARG C  16     200.705 144.445  21.496  1.00 93.29      CS3
ATOM  34516  NH2 ARG C  16     201.912 142.977  22.795  1.00 93.29      CS3
ATOM  34517  C   ARG C  16     206.219 148.086  19.931  1.00 52.27      CS3
ATOM  34518  O   ARG C  16     207.228 147.905  19.248  1.00 52.27      CS3
ATOM  34519  N   ASP C  17     206.266 148.319  21.245  1.00 59.77      CS3
ATOM  34520  CA  ASP C  17     207.530 148.399  21.985  1.00 59.77      CS3
ATOM  34521  CB  ASP C  17     207.530 149.612  22.918  1.00131.51      CS3
ATOM  34522  CG  ASP C  17     207.270 150.913  22.181  1.00131.51      CS3
ATOM  34523  OD1 ASP C  17     208.033 151.237  21.247  1.00131.51      CS3
ATOM  34524  OD2 ASP C  17     206.299 151.614  22.536  1.00131.51      CS3
ATOM  34525  C   ASP C  17     207.781 147.135  22.791  1.00 59.77      CS3
ATOM  34526  O   ASP C  17     206.868 146.356  23.048  1.00 59.77      CS3
ATOM  34527  N   TRP C  18     209.029 146.949  23.197  1.00 57.95      CS3
ATOM  34528  CA  TRP C  18     209.446 145.768  23.947  1.00 57.95      CS3
ATOM  34529  CB  TRP C  18     210.959 145.823  24.185  1.00 75.79      CS3
ATOM  34530  CG  TRP C  18     211.797 145.661  22.951  1.00 75.79      CS3
ATOM  34531  CD2 TRP C  18     211.915 146.584  21.865  1.00 75.79      CS3
ATOM  34532  CE2 TRP C  18     212.821 146.027  20.942  1.00 75.79      CS3
ATOM  34533  CE3 TRP C  18     211.342 147.829  21.582  1.00 75.79      CS3
ATOM  34534  CD1 TRP C  18     212.612 144.611  22.651  1.00 75.79      CS3
ATOM  34535  NE1 TRP C  18     213.232 144.823  21.447  1.00 75.79      CS3
ATOM  34536  CZ2 TRP C  18     213.171 146.672  19.752  1.00 75.79      CS3
ATOM  34537  CZ3 TRP C  18     211.690 148.473  20.395  1.00 75.79      CS3
ATOM  34538  CH2 TRP C  18     212.597 147.890  19.496  1.00 75.79      CS3
ATOM  34539  C   TRP C  18     208.751 145.548  25.288  1.00 57.95      CS3
ATOM  34540  O   TRP C  18     208.065 146.426  25.791  1.00 57.95      CS3
ATOM  34541  N   GLU C  19     208.938 144.357  25.851  1.00 58.75      CS3
ATOM  34542  CA  GLU C  19     208.382 144.000  27.155  1.00 58.75      CS3
ATOM  34543  CB  GLU C  19     207.881 142.552  27.171  1.00140.19      CS3
ATOM  34544  CG  GLU C  19     206.535 142.311  26.513  1.00140.19      CS3
ATOM  34545  CD  GLU C  19     205.984 140.927  26.832  1.00140.19      CS3
ATOM  34546  OE1 GLU C  19     205.746 140.637  28.026  1.00140.19      CS3
ATOM  34547  OE2 GLU C  19     205.792 140.127  25.892  1.00140.19      CS3
ATOM  34548  C   GLU C  19     209.494 144.136  28.196  1.00 58.75      CS3
ATOM  34549  O   GLU C  19     209.424 143.545  29.270  1.00 58.75      CS3
ATOM  34550  N   SER C  20     210.529 144.894  27.850  1.00 73.64      CS3
ATOM  34551  CA  SER C  20     211.680 145.141  28.718  1.00 73.64      CS3
ATOM  34552  CB  SER C  20     212.572 143.910  28.841  1.00 31.67      CS3
ATOM  34553  OG  SER C  20     211.997 142.941  29.696  1.00 31.67      CS3
ATOM  34554  C   SER C  20     212.465 146.239  28.051  1.00 73.64      CS3
ATOM  34555  O   SER C  20     213.208 145.989  27.098  1.00 73.64      CS3
ATOM  34556  N   ARG C  21     212.300 147.455  28.555  1.00118.87      CS3
ATOM  34557  CA  ARG C  21     212.963 148.619  27.990  1.00118.87      CS3
ATOM  34558  CB  ARG C  21     211.992 149.803  28.018  1.00163.62      CS3
ATOM  34559  CG  ARG C  21     210.634 149.470  27.406  1.00163.62      CS3
ATOM  34560  CD  ARG C  21     209.510 150.284  28.031  1.00163.62      CS3
ATOM  34561  NE  ARG C  21     208.195 149.747  27.681  1.00163.62      CS3
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ATOM  34562  CZ  ARG C  21     207.046 150.176  28.195  1.00163.62      CS3
ATOM  34563  NH1 ARG C  21     207.038 151.156  29.089  1.00163.62      CS3
ATOM  34564  NH2 ARG C  21     205.901 149.622  27.817  1.00163.62      CS3
ATOM  34565  C   ARG C  21     214.261 148.979  28.704  1.00118.87      CS3
ATOM  34566  O   ARG C  21     214.715 150.118  28.624  1.00118.87      CS3
ATOM  34567  N   TRP C  22     214.864 148.013  29.392  1.00 68.54      CS3
ATOM  34568  CA  TRP C  22     216.115 148.270  30.098  1.00 68.54      CS3
ATOM  34569  CB  TRP C  22     216.178 147.472  31.385  1.00 49.54      CS3
ATOM  34570  CG  TRP C  22     215.875 146.062  31.200  1.00 49.54      CS3
ATOM  34571  CD2 TRP C  22     216.803 145.026  30.890  1.00 49.54      CS3
ATOM  34572  CE2 TRP C  22     216.076 143.815  30.849  1.00 49.54      CS3
ATOM  34573  CE3 TRP C  22     218.181 144.996  30.648  1.00 49.54      CS3
ATOM  34574  CD1 TRP C  22     214.655 145.469  31.319  1.00 49.54      CS3
ATOM  34575  NE1 TRP C  22     214.765 144.118  31.115  1.00 49.54      CS3
ATOM  34576  CZ2 TRP C  22     216.686 142.575  30.571  1.00 49.54      CS3
ATOM  34577  CZ3 TRP C  22     218.787 143.759  30.371  1.00 49.54      CS3
ATOM  34578  CH2 TRP C  22     218.036 142.570  30.339  1.00 49.54      CS3
ATOM  34579  C   TRP C  22     217.376 147.985  29.289  1.00 68.54      CS3
ATOM  34580  O   TRP C  22     217.312 147.644  28.110  1.00 68.54      CS3
ATOM  34581  N   TYR C  23     218.523 148.134  29.943  1.00 97.73      CS3
ATOM  34582  CA  TYR C  23     219.814 147.921  29.303  1.00 97.73      CS3
ATOM  34583  CB  TYR C  23     220.383 149.281  28.845  1.00 66.27      CS3
ATOM  34584  CG  TYR C  23     221.836 149.311  28.374  1.00 66.27      CS3
ATOM  34585  CD1 TYR C  23     222.259 150.259  27.437  1.00 66.27      CS3
ATOM  34586  CE1 TYR C  23     223.610 150.356  27.053  1.00 66.27      CS3
ATOM  34587  CD2 TYR C  23     222.800 148.456  28.912  1.00 66.27      CS3
ATOM  34588  CE2 TYR C  23     224.141 148.537  28.542  1.00 66.27      CS3
ATOM  34589  CZ  TYR C  23     224.548 149.491  27.615  1.00 66.27      CS3
ATOM  34590  OH  TYR C  23     225.888 149.589  27.281  1.00 66.27      CS3
ATOM  34591  C   TYR C  23     220.793 147.193  30.221  1.00 97.73      CS3
ATOM  34592  O   TYR C  23     220.817 147.400  31.434  1.00 97.73      CS3
ATOM  34593  N   ALA C  24     221.595 146.328  29.608  1.00 75.76      CS3
ATOM  34594  CA  ALA C  24     222.611 145.549  30.294  1.00 75.76      CS3
ATOM  34595  CB  ALA C  24     222.074 144.183  30.660  1.00114.90      CS3
ATOM  34596  C   ALA C  24     223.790 145.407  29.344  1.00 75.76      CS3
ATOM  34597  O   ALA C  24     223.649 145.589  28.132  1.00 75.76      CS3
ATOM  34598  N   GLY C  25     224.951 145.084  29.904  1.00 99.94      CS3
ATOM  34599  CA  GLY C  25     226.148 144.933  29.101  1.00 99.94      CS3
ATOM  34600  C   GLY C  25     226.502 143.484  28.870  1.00 99.94      CS3
ATOM  34601  O   GLY C  25     225.866 142.587  29.416  1.00 99.94      CS3
ATOM  34602  N   LYS C  26     227.531 143.267  28.061  1.00 80.29      CS3
ATOM  34603  CA  LYS C  26     228.005 141.932  27.712  1.00 80.29      CS3
ATOM  34604  CB  LYS C  26     229.460 142.013  27.239  1.00201.26      CS3
ATOM  34605  CG  LYS C  26     229.741 143.177  26.297  1.00201.26      CS3
ATOM  34606  CD  LYS C  26     228.796 143.177  25.107  1.00201.26      CS3
ATOM  34607  CE  LYS C  26     228.994 144.414  24.247  1.00201.26      CS3
ATOM  34608  NZ  LYS C  26     228.049 144.448  23.095  1.00201.26      CS3
ATOM  34609  C   LYS C  26     227.889 140.895  28.830  1.00 80.29      CS3
ATOM  34610  O   LYS C  26     227.255 139.861  28.653  1.00 80.29      CS3
ATOM  34611  N   LYS C  27     228.500 141.165  29.978  1.00 97.15      CS3
ATOM  34612  CA  LYS C  27     228.463 140.225  31.097  1.00 97.15      CS3
ATOM  34613  CB  LYS C  27     229.752 140.346  31.914  1.00201.04      CS3
ATOM  34614  CG  LYS C  27     230.210 141.778  32.129  1.00201.04      CS3
ATOM  34615  CD  LYS C  27     231.651 141.828  32.602  1.00201.04      CS3
ATOM  34616  CE  LYS C  27     232.174 143.254  32.607  1.00201.04      CS3
ATOM  34617  NZ  LYS C  27     233.620 143.315  32.959  1.00201.04      CS3
ATOM  34618  C   LYS C  27     227.250 140.431  31.991  1.00 97.15      CS3
ATOM  34619  O   LYS C  27     227.026 139.680  32.943  1.00 97.15      CS3
ATOM  34620  N   GLN C  28     226.467 141.454  31.670  1.00 59.57      CS3
ATOM  34621  CA  GLN C  28     225.263 141.780  32.422  1.00 59.57      CS3
ATOM  34622  CB  GLN C  28     224.981 143.283  32.326  1.00111.54      CS3
ATOM  34623  CG  GLN C  28     225.744 144.143  33.315  1.00111.54      CS3
ATOM  34624  CD  GLN C  28     225.252 143.951  34.736  1.00111.54      CS3
ATOM  34625  OE1 GLN C  28     225.396 142.873  35.317  1.00111.54      CS3
ATOM  34626  NE2 GLN C  28     224.656 144.997  35.302  1.00111.54      CS3
ATOM  34627  C   GLN C  28     224.061 141.012  31.883  1.00 59.57      CS3
ATOM  34628  O   GLN C  28     223.589 140.051  32.491  1.00 59.57      CS3
ATOM  34629  N   TYR C  29     223.589 141.466  30.725  1.00 68.04      CS3
ATOM  34630  CA  TYR C  29     222.437 140.912  30.015  1.00 68.04      CS3
ATOM  34631  CB  TYR C  29     222.744 140.851  28.521  1.00 44.35      CS3
ATOM  34632  CG  TYR C  29     221.568 141.219  27.667  1.00 44.35      CS3
ATOM  34633  CD1 TYR C  29     221.507 142.456  27.017  1.00 44.35      CS3
ATOM  34634  CE1 TYR C  29     220.409 142.800  26.225  1.00 44.35      CS3
ATOM  34635  CD2 TYR C  29     220.506 140.333  27.512  1.00 44.35      CS3
ATOM  34636  CE2 TYR C  29     219.404 140.657  26.732  1.00 44.35      CS3
ATOM  34637  CZ  TYR C  29     219.356 141.889  26.088  1.00 44.35      CS3
ATOM  34638  OH  TYR C  29     218.246 142.183  25.319  1.00 44.35      CS3
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ATOM  34639  C   TYR C  29     221.906 139.558  30.476  1.00 68.04      CS3
ATOM  34640  O   TYR C  29     220.786 139.477  30.972  1.00 68.04      CS3
ATOM  34641  N   ARG C  30     222.700 138.502  30.306  1.00 91.24      CS3
ATOM  34642  CA  ARG C  30     222.284 137.153  30.698  1.00 91.24      CS3
ATOM  34643  CB  ARG C  30     223.496 136.246  30.889  1.00159.41      CS3
ATOM  34644  CG  ARG C  30     224.380 136.106  29.675  1.00159.41      CS3
ATOM  34645  CD  ARG C  30     225.431 135.040  29.926  1.00159.41      CS3
ATOM  34646  NE  ARG C  30     226.140 135.251  31.187  1.00159.41      CS3
ATOM  34647  CZ  ARG C  30     226.971 136.263  31.428  1.00159.41      CS3
ATOM  34648  NH1 ARG C  30     227.211 137.169  30.490  1.00159.41      CS3
ATOM  34649  NH2 ARG C  30     227.560 136.372  32.611  1.00159.41      CS3
ATOM  34650  C   ARG C  30     221.446 137.109  31.973  1.00 91.24      CS3
ATOM  34651  O   ARG C  30     220.285 136.697  31.949  1.00 91.24      CS3
ATOM  34652  N   HIS C  31     222.043 137.530  33.084  1.00 59.00      CS3
ATOM  34653  CA  HIS C  31     221.364 137.529  34.375  1.00 59.00      CS3
ATOM  34654  CB  HIS C  31     222.373 137.845  35.473  1.00150.65      CS3
ATOM  34655  CG  HIS C  31     223.629 137.039  35.377  1.00150.65      CS3
ATOM  34656  CD2 HIS C  31     224.923 137.415  35.247  1.00150.65      CS3
ATOM  34657  ND1 HIS C  31     223.631 135.661  35.397  1.00150.65      CS3
ATOM  34658  CE1 HIS C  31     224.872 135.223  35.284  1.00150.65      CS3
ATOM  34659  NE2 HIS C  31     225.676 136.268  35.192  1.00150.65      CS3
ATOM  34660  C   HIS C  31     220.203 138.520  34.425  1.00 59.00      CS3
ATOM  34661  O   HIS C  31     219.097 138.176  34.848  1.00 59.00      CS3
ATOM  34662  N   LEU C  32     220.457 139.744  33.975  1.00 88.38      CS3
ATOM  34663  CA  LEU C  32     219.444 140.793  33.965  1.00 88.38      CS3
ATOM  34664  CB  LEU C  32     220.060 142.083  33.420  1.00 91.63      CS3
ATOM  34665  CG  LEU C  32     219.607 143.401  34.058  1.00 91.63      CS3
ATOM  34666  CD1 LEU C  32     220.476 144.540  33.537  1.00 91.63      CS3
ATOM  34667  CD2 LEU C  32     218.136 143.660  33.762  1.00 91.63      CS3
ATOM  34668  C   LEU C  32     218.219 140.391  33.129  1.00 88.38      CS3
ATOM  34669  O   LEU C  32     217.222 141.112  33.066  1.00 88.38      CS3
ATOM  34670  N   LEU C  33     218.294 139.233  32.488  1.00 90.98      CS3
ATOM  34671  CA  LEU C  33     217.188 138.756  31.675  1.00 90.98      CS3
ATOM  34672  CB  LEU C  33     217.653 138.453  30.250  1.00 83.50      CS3
ATOM  34673  CG  LEU C  33     216.617 138.117  29.168  1.00 83.50      CS3
ATOM  34674  CD1 LEU C  33     217.361 137.860  27.876  1.00 83.50      CS3
ATOM  34675  CD2 LEU C  33     215.788 136.905  29.537  1.00 83.50      CS3
ATOM  34676  C   LEU C  33     216.626 137.495  32.286  1.00 90.98      CS3
ATOM  34677  O   LEU C  33     215.426 137.408  32.533  1.00 90.98      CS3
ATOM  34678  N   LEU C  34     217.492 136.513  32.520  1.00 37.22      CS3
ATOM  34679  CA  LEU C  34     217.043 135.249  33.087  1.00 37.22      CS3
ATOM  34680  CB  LEU C  34     218.202 134.448  33.651  1.00 41.11      CS3
ATOM  34681  CG  LEU C  34     217.887 132.961  33.860  1.00 41.11      CS3
ATOM  34682  CD1 LEU C  34     219.014 132.347  34.671  1.00 41.11      CS3
ATOM  34683  CD2 LEU C  34     216.564 132.750  34.571  1.00 41.11      CS3
ATOM  34684  C   LEU C  34     216.075 135.531  34.206  1.00 37.22      CS3
ATOM  34685  O   LEU C  34     214.970 134.990  34.234  1.00 37.22      CS3
ATOM  34686  N   GLU C  35     216.518 136.371  35.138  1.00 70.11      CS3
ATOM  34687  CA  GLU C  35     215.721 136.789  36.290  1.00 70.11      CS3
ATOM  34688  CB  GLU C  35     216.513 137.830  37.089  1.00102.37      CS3
ATOM  34689  CG  GLU C  35     215.737 138.558  38.169  1.00102.37      CS3
ATOM  34690  CD  GLU C  35     216.524 139.715  38.755  1.00102.37      CS3
ATOM  34691  OE1 GLU C  35     217.617 139.470  39.309  1.00102.37      CS3
ATOM  34692  OE2 GLU C  35     216.050 140.867  38.659  1.00102.37      CS3
ATOM  34693  C   GLU C  35     214.427 137.403  35.768  1.00 70.11      CS3
ATOM  34694  O   GLU C  35     213.322 136.979  36.120  1.00 70.11      CS3
ATOM  34695  N   ASP C  36     214.601 138.410  34.918  1.00 29.34      CS3
ATOM  34696  CA  ASP C  36     213.506 139.124  34.290  1.00 29.34      CS3
ATOM  34697  CB  ASP C  36     214.063 139.931  33.108  1.00 88.11      CS3
ATOM  34698  CG  ASP C  36     213.068 140.927  32.552  1.00 88.11      CS3
ATOM  34699  OD1 ASP C  36     211.978 140.510  32.111  1.00 88.11      CS3
ATOM  34700  OD2 ASP C  36     213.381 142.134  32.549  1.00 88.11      CS3
ATOM  34701  C   ASP C  36     212.458 138.111  33.810  1.00 29.34      CS3
ATOM  34702  O   ASP C  36     211.247 138.370  33.839  1.00 29.34      CS3
ATOM  34703  N   GLN C  37     212.937 136.951  33.377  1.00 84.24      CS3
ATOM  34704  CA  GLN C  37     212.063 135.897  32.884  1.00 84.24      CS3
ATOM  34705  CB  GLN C  37     212.886 134.873  32.094  1.00107.24      CS3
ATOM  34706  CG  GLN C  37     212.117 134.127  31.009  1.00107.24      CS3
ATOM  34707  CD  GLN C  37     211.470 135.063  29.999  1.00107.24      CS3
ATOM  34708  OE1 GLN C  37     212.092 136.023  29.532  1.00107.24      CS3
ATOM  34709  NE2 GLN C  37     210.217 134.780  29.648  1.00107.24      CS3
ATOM  34710  C   GLN C  37     211.329 135.220  34.046  1.00 84.24      CS3
ATOM  34711  O   GLN C  37     210.105 135.075  34.012  1.00 84.24      CS3
ATOM  34712  N   ARG C  38     212.076 134.809  35.070  1.00 72.83      CS3
ATOM  34713  CA  ARG C  38     211.474 134.167  36.230  1.00 72.83      CS3
ATOM  34714  CB  ARG C  38     212.504 133.953  37.330  1.00 96.26      CS3
ATOM  34715  CG  ARG C  38     213.650 133.067  36.959  1.00 96.26      CS3
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ATOM  34716  CD  ARG C  38     214.230 132.452  38.214  1.00 96.26      CS3
ATOM  34717  NE  ARG C  38     215.416 131.654  37.931  1.00 96.26      CS3
ATOM  34718  CZ  ARG C  38     216.619 132.163  37.687  1.00 96.26      CS3
ATOM  34719  NH1 ARG C  38     216.806 133.481  37.695  1.00 96.26      CS3
ATOM  34720  NH2 ARG C  38     217.635 131.348  37.431  1.00 96.26      CS3
ATOM  34721  C   ARG C  38     210.383 135.079  36.768  1.00 72.83      CS3
ATOM  34722  O   ARG C  38     209.360 134.614  37.284  1.00 72.83      CS3
ATOM  34723  N   ILE C  39     210.631 136.385  36.661  1.00 77.59      CS3
ATOM  34724  CA  ILE C  39     209.685 137.396  37.116  1.00 77.59      CS3
ATOM  34725  CB  ILE C  39     210.098 138.808  36.638  1.00124.39      CS3
ATOM  34726  CG2 ILE C  39     208.956 139.789  36.847  1.00124.39      CS3
ATOM  34727  CG1 ILE C  39     211.350 139.267  37.391  1.00124.39      CS3
ATOM  34728  CD1 ILE C  39     211.819 140.659  37.012  1.00124.39      CS3
ATOM  34729  C   ILE C  39     208.333 137.042  36.528  1.00 77.59      CS3
ATOM  34730  O   ILE C  39     207.425 136.622  37.241  1.00 77.59      CS3
ATOM  34731  N   ARG C  40     208.210 137.200  35.218  1.00 59.93      CS3
ATOM  34732  CA  ARG C  40     206.968 136.868  34.539  1.00 59.93      CS3
ATOM  34733  CB  ARG C  40     207.173 136.877  33.023  1.00 58.28      CS3
ATOM  34734  CG  ARG C  40     207.569 138.225  32.458  1.00 58.28      CS3
ATOM  34735  CD  ARG C  40     207.353 138.264  30.963  1.00 58.28      CS3
ATOM  34736  NE  ARG C  40     207.686 139.560  30.380  1.00 58.28      CS3
ATOM  34737  CZ  ARG C  40     208.887 140.126  30.457  1.00 58.28      CS3
ATOM  34738  NH1 ARG C  40     209.872 139.510  31.103  1.00 58.28      CS3
ATOM  34739  NH2 ARG C  40     209.111 141.295  29.869  1.00 58.28      CS3
ATOM  34740  C   ARG C  40     206.540 135.478  34.984  1.00 59.93      CS3
ATOM  34741  O   ARG C  40     205.349 135.176  35.064  1.00 59.93      CS3
ATOM  34742  N   GLY C  41     207.531 134.640  35.274  1.00 70.23      CS3
ATOM  34743  CA  GLY C  41     207.262 133.284  35.710  1.00 70.23      CS3
ATOM  34744  C   GLY C  41     206.095 133.203  36.668  1.00 70.23      CS3
ATOM  34745  O   GLY C  41     205.039 132.672  36.322  1.00 70.23      CS3
ATOM  34746  N   LEU C  42     206.283 133.740  37.871  1.00105.11      CS3
ATOM  34747  CA  LEU C  42     205.242 133.728  38.893  1.00105.11      CS3
ATOM  34748  CB  LEU C  42     205.828 134.117  40.251  1.00142.48      CS3
ATOM  34749  CG  LEU C  42     206.772 133.085  40.874  1.00142.48      CS3
ATOM  34750  CD1 LEU C  42     207.317 133.616  42.185  1.00142.48      CS3
ATOM  34751  CD2 LEU C  42     206.025 131.775  41.095  1.00142.48      CS3
ATOM  34752  C   LEU C  42     204.087 134.653  38.549  1.00105.11      CS3
ATOM  34753  O   LEU C  42     202.938 134.362  38.871  1.00105.11      CS3
ATOM  34754  N   LEU C  43     204.392 135.768  37.899  1.00 69.44      CS3
ATOM  34755  CA  LEU C  43     203.362 136.721  37.509  1.00 69.44      CS3
ATOM  34756  CB  LEU C  43     203.990 137.870  36.725  1.00 58.18      CS3
ATOM  34757  CG  LEU C  43     204.562 138.973  37.618  1.00 58.18      CS3
ATOM  34758  CD1 LEU C  43     203.412 139.800  38.181  1.00 58.18      CS3
ATOM  34759  CD2 LEU C  43     205.412 138.366  38.742  1.00 58.18      CS3
ATOM  34760  C   LEU C  43     202.271 136.056  36.680  1.00 69.44      CS3
ATOM  34761  O   LEU C  43     201.078 136.280  36.902  1.00 69.44      CS3
ATOM  34762  N   GLU C  44     202.683 135.238  35.719  1.00 78.86      CS3
ATOM  34763  CA  GLU C  44     201.735 134.528  34.877  1.00 78.86      CS3
ATOM  34764  CB  GLU C  44     202.428 134.060  33.599  1.00153.14      CS3
ATOM  34765  CG  GLU C  44     202.551 135.161  32.560  1.00153.14      CS3
ATOM  34766  CD  GLU C  44     203.723 134.965  31.625  1.00153.14      CS3
ATOM  34767  OE1 GLU C  44     203.912 133.834  31.129  1.00153.14      CS3
ATOM  34768  OE2 GLU C  44     204.452 135.950  31.382  1.00153.14      CS3
ATOM  34769  C   GLU C  44     201.178 133.348  35.657  1.00 78.86      CS3
ATOM  34770  O   GLU C  44     200.008 133.009  35.530  1.00 78.86      CS3
ATOM  34771  N   LYS C  45     202.025 132.738  36.480  1.00122.60      CS3
ATOM  34772  CA  LYS C  45     201.630 131.597  37.303  1.00122.60      CS3
ATOM  34773  CB  LYS C  45     202.850 131.039  38.048  1.00169.30      CS3
ATOM  34774  CG  LYS C  45     203.673 130.009  37.282  1.00169.30      CS3
ATOM  34775  CD  LYS C  45     202.990 128.643  37.276  1.00169.30      CS3
ATOM  34776  CE  LYS C  45     203.893 127.565  36.687  1.00169.30      CS3
ATOM  34777  NZ  LYS C  45     203.293 126.202  36.788  1.00169.30      CS3
ATOM  34778  C   LYS C  45     200.558 131.973  38.323  1.00122.60      CS3
ATOM  34779  O   LYS C  45     199.701 131.155  38.659  1.00122.60      CS3
ATOM  34780  N   GLU C  46     200.611 133.212  38.807  1.00 66.16      CS3
ATOM  34781  CA  GLU C  46     199.666 133.700  39.815  1.00 66.16      CS3
ATOM  34782  CB  GLU C  46     200.411 134.507  40.883  1.00177.89      CS3
ATOM  34783  CG  GLU C  46     201.386 133.706  41.734  1.00177.89      CS3
ATOM  34784  CD  GLU C  46     200.690 132.720  42.652  1.00177.89      CS3
ATOM  34785  OE1 GLU C  46     199.806 133.146  43.425  1.00177.89      CS3
ATOM  34786  OE2 GLU C  46     201.030 131.519  42.605  1.00177.89      CS3
ATOM  34787  C   GLU C  46     198.543 134.562  39.257  1.00 66.16      CS3
ATOM  34788  O   GLU C  46     197.386 134.145  39.206  1.00 66.16      CS3
ATOM  34789  N   LEU C  47     198.910 135.771  38.853  1.00 90.29      CS3
ATOM  34790  CA  LEU C  47     197.980 136.753  38.317  1.00 90.29      CS3
ATOM  34791  CB  LEU C  47     198.741 137.997  37.860  1.00 51.89      CS3
ATOM  34792  CG  LEU C  47     199.489 138.804  38.918  1.00 51.89      CS3
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ATOM  34793  CD1 LEU C  47     200.425 137.883  39.700  1.00 51.89      CS3
ATOM  34794  CD2 LEU C  47     200.253 139.949  38.238  1.00 51.89      CS3
ATOM  34795  C   LEU C  47     197.093 136.301  37.168  1.00 90.29      CS3
ATOM  34796  O   LEU C  47     196.770 137.118  36.299  1.00 90.29      CS3
ATOM  34797  N   TYR C  48     196.685 135.034  37.139  1.00 72.89      CS3
ATOM  34798  CA  TYR C  48     195.827 134.606  36.044  1.00 72.89      CS3
ATOM  34799  CB  TYR C  48     195.906 133.096  35.803  1.00132.51      CS3
ATOM  34800  CG  TYR C  48     195.047 132.691  34.622  1.00132.51      CS3
ATOM  34801  CD1 TYR C  48     194.962 133.513  33.494  1.00132.51      CS3
ATOM  34802  CE1 TYR C  48     194.145 133.188  32.425  1.00132.51      CS3
ATOM  34803  CD2 TYR C  48     194.291 131.522  34.642  1.00132.51      CS3
ATOM  34804  CE2 TYR C  48     193.468 131.185  33.569  1.00132.51      CS3
ATOM  34805  CZ  TYR C  48     193.401 132.026  32.466  1.00132.51      CS3
ATOM  34806  OH  TYR C  48     192.592 131.713  31.401  1.00132.51      CS3
ATOM  34807  C   TYR C  48     194.373 135.009  36.252  1.00 72.89      CS3
ATOM  34808  O   TYR C  48     193.740 135.554  35.341  1.00 72.89      CS3
ATOM  34809  N   SER C  49     193.849 134.739  37.445  1.00 78.80      CS3
ATOM  34810  CA  SER C  49     192.468 135.082  37.765  1.00 78.80      CS3
ATOM  34811  CB  SER C  49     192.194 134.838  39.249  1.00168.27      CS3
ATOM  34812  OG  SER C  49     193.146 135.508  40.054  1.00168.27      CS3
ATOM  34813  C   SER C  49     192.227 136.546  37.420  1.00 78.80      CS3
ATOM  34814  O   SER C  49     191.125 136.939  37.036  1.00 78.80      CS3
ATOM  34815  N   ALA C  50     193.275 137.347  37.550  1.00 44.72      CS3
ATOM  34816  CA  ALA C  50     193.194 138.768  37.239  1.00 44.72      CS3
ATOM  34817  CB  ALA C  50     194.382 139.499  37.852  1.00140.35      CS3
ATOM  34818  C   ALA C  50     193.183 138.965  35.729  1.00 44.72      CS3
ATOM  34819  O   ALA C  50     192.756 140.013  35.227  1.00 44.72      CS3
ATOM  34820  N   GLY C  51     193.657 137.941  35.020  1.00100.40      CS3
ATOM  34821  CA  GLY C  51     193.724 137.991  33.575  1.00100.40      CS3
ATOM  34822  C   GLY C  51     194.573 139.177  33.179  1.00100.40      CS3
ATOM  34823  O   GLY C  51     194.066 140.296  33.061  1.00100.40      CS3
ATOM  34824  N   LEU C  52     195.865 138.938  32.978  1.00 75.56      CS3
ATOM  34825  CA  LEU C  52     196.783 140.016  32.617  1.00 75.56      CS3
ATOM  34826  CB  LEU C  52     198.044 139.946  33.471  1.00 61.47      CS3
ATOM  34827  CG  LEU C  52     198.997 138.801  33.118  1.00 61.47      CS3
ATOM  34828  CD1 LEU C  52     200.145 138.773  34.133  1.00 61.47      CS3
ATOM  34829  CD2 LEU C  52     198.236 137.462  33.100  1.00 61.47      CS3
ATOM  34830  C   LEU C  52     197.197 140.005  31.158  1.00 75.56      CS3
ATOM  34831  O   LEU C  52     197.634 138.986  30.629  1.00 75.56      CS3
ATOM  34832  N   ALA C  53     197.060 141.154  30.514  1.00 70.60      CS3
ATOM  34833  CA  ALA C  53     197.449 141.293  29.123  1.00 70.60      CS3
ATOM  34834  CB  ALA C  53     196.857 142.582  28.544  1.00 40.46      CS3
ATOM  34835  C   ALA C  53     198.980 141.339  29.071  1.00 70.60      CS3
ATOM  34836  O   ALA C  53     199.646 140.308  28.933  1.00 70.60      CS3
ATOM  34837  N   ARG C  54     199.517 142.549  29.210  1.00 88.21      CS3
ATOM  34838  CA  ARG C  54     200.955 142.812  29.186  1.00 88.21      CS3
ATOM  34839  CB  ARG C  54     201.186 144.216  28.618  1.00120.37      CS3
ATOM  34840  CG  ARG C  54     202.614 144.551  28.251  1.00120.37      CS3
ATOM  34841  CD  ARG C  54     202.940 144.056  26.858  1.00120.37      CS3
ATOM  34842  NE  ARG C  54     204.202 144.602  26.369  1.00120.37      CS3
ATOM  34843  CZ  ARG C  54     204.451 145.901  26.229  1.00120.37      CS3
ATOM  34844  NH1 ARG C  54     203.529 146.800  26.542  1.00120.37      CS3
ATOM  34845  NH2 ARG C  54     205.625 146.301  25.766  1.00120.37      CS3
ATOM  34846  C   ARG C  54     201.577 142.714  30.591  1.00 88.21      CS3
ATOM  34847  O   ARG C  54     200.869 142.609  31.592  1.00 88.21      CS3
ATOM  34848  N   VAL C  55     202.905 142.753  30.648  1.00 46.89      CS3
ATOM  34849  CA  VAL C  55     203.660 142.688  31.901  1.00 46.89      CS3
ATOM  34850  CB  VAL C  55     203.767 141.235  32.456  1.00 67.20      CS3
ATOM  34851  CG1 VAL C  55     204.759 141.177  33.627  1.00 67.20      CS3
ATOM  34852  CG2 VAL C  55     202.403 140.748  32.911  1.00 67.20      CS3
ATOM  34853  C   VAL C  55     205.062 143.156  31.568  1.00 46.89      CS3
ATOM  34854  O   VAL C  55     206.009 142.367  31.628  1.00 46.89      CS3
ATOM  34855  N   ASP C  56     205.203 144.432  31.213  1.00 60.06      CS3
ATOM  34856  CA  ASP C  56     206.518 144.951  30.846  1.00 60.06      CS3
ATOM  34857  CB  ASP C  56     206.383 146.307  30.148  1.00108.47      CS3
ATOM  34858  CG  ASP C  56     205.945 147.400  31.082  1.00108.47      CS3
ATOM  34859  OD1 ASP C  56     206.769 147.824  31.915  1.00108.47      CS3
ATOM  34860  OD2 ASP C  56     204.778 147.833  30.989  1.00108.47      CS3
ATOM  34861  C   ASP C  56     207.486 145.052  32.021  1.00 60.06      CS3
ATOM  34862  O   ASP C  56     207.207 144.567  33.118  1.00 60.06      CS3
ATOM  34863  N   ILE C  57     208.637 145.667  31.780  1.00 84.39      CS3
ATOM  34864  CA  ILE C  57     209.644 145.819  32.818  1.00 84.39      CS3
ATOM  34865  CB  ILE C  57     210.490 144.515  32.974  1.00 26.61      CS3
ATOM  34866  CG2 ILE C  57     211.785 144.802  33.748  1.00 26.61      CS3
ATOM  34867  CG1 ILE C  57     209.641 143.427  33.660  1.00 26.61      CS3
ATOM  34868  CD1 ILE C  57     210.393 142.136  34.014  1.00 26.61      CS3
ATOM  34869  C   ILE C  57     210.565 146.996  32.515  1.00 84.39      CS3
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ATOM  34870  O   ILE C  57     210.624 147.474  31.381  1.00 84.39      CS3
ATOM  34871  N   GLU C  58     211.258 147.467  33.549  1.00 76.34      CS3
ATOM  34872  CA  GLU C  58     212.200 148.575  33.445  1.00 76.34      CS3
ATOM  34873  CB  GLU C  58     211.473 149.910  33.593  1.00141.71      CS3
ATOM  34874  CG  GLU C  58     210.423 150.165  32.538  1.00141.71      CS3
ATOM  34875  CD  GLU C  58     209.549 151.352  32.875  1.00141.71      CS3
ATOM  34876  OE1 GLU C  58     208.909 151.329  33.949  1.00141.71      CS3
ATOM  34877  OE2 GLU C  58     209.499 152.306  32.069  1.00141.71      CS3
ATOM  34878  C   GLU C  58     213.228 148.430  34.563  1.00 76.34      CS3
ATOM  34879  O   GLU C  58     212.923 147.901  35.636  1.00 76.34      CS3
ATOM  34880  N   ARG C  59     214.450 148.880  34.305  1.00 74.85      CS3
ATOM  34881  CA  ARG C  59     215.505 148.819  35.308  1.00 74.85      CS3
ATOM  34882  CB  ARG C  59     216.221 147.467  35.301  1.00 51.26      CS3
ATOM  34883  CG  ARG C  59     215.333 146.265  35.556  1.00 51.26      CS3
ATOM  34884  CD  ARG C  59     216.178 145.067  35.942  1.00 51.26      CS3
ATOM  34885  NE  ARG C  59     215.434 143.815  35.873  1.00 51.26      CS3
ATOM  34886  CZ  ARG C  59     215.823 142.685  36.455  1.00 51.26      CS3
ATOM  34887  NH1 ARG C  59     216.947 142.652  37.157  1.00 51.26      CS3
ATOM  34888  NH2 ARG C  59     215.097 141.584  36.329  1.00 51.26      CS3
ATOM  34889  C   ARG C  59     216.527 149.916  35.073  1.00 74.85      CS3
ATOM  34890  O   ARG C  59     216.601 150.499  33.988  1.00 74.85      CS3
ATOM  34891  N   ALA C  60     217.307 150.191  36.109  1.00131.25      CS3
ATOM  34892  CA  ALA C  60     218.340 151.213  36.063  1.00131.25      CS3
ATOM  34893  CB  ALA C  60     217.712 152.603  36.048  1.00184.80      CS3
ATOM  34894  C   ALA C  60     219.194 151.026  37.305  1.00131.25      CS3
ATOM  34895  O   ALA C  60     219.344 151.940  38.116  1.00131.25      CS3
ATOM  34896  N   ALA C  61     219.739 149.821  37.438  1.00129.49      CS3
ATOM  34897  CA  ALA C  61     220.580 149.451  38.569  1.00129.49      CS3
ATOM  34898  CB  ALA C  61     221.625 150.534  38.837  1.00136.35      CS3
ATOM  34899  C   ALA C  61     219.725 149.224  39.806  1.00129.49      CS3
ATOM  34900  O   ALA C  61     218.877 150.050  40.146  1.00129.49      CS3
ATOM  34901  N   ASP C  62     219.955 148.092  40.463  1.00163.21      CS3
ATOM  34902  CA  ASP C  62     219.227 147.720  41.667  1.00163.21      CS3
ATOM  34903  CB  ASP C  62     220.047 148.089  42.906  1.00180.35      CS3
ATOM  34904  CG  ASP C  62     221.375 147.354  42.961  1.00180.35      CS3
ATOM  34905  OD1 ASP C  62     221.359 146.106  42.954  1.00180.35      CS3
ATOM  34906  OD2 ASP C  62     222.432 148.018  43.008  1.00180.35      CS3
ATOM  34907  C   ASP C  62     217.839 148.350  41.738  1.00163.21      CS3
ATOM  34908  O   ASP C  62     217.451 148.919  42.758  1.00163.21      CS3
ATOM  34909  N   ASN C  63     217.101 148.243  40.637  1.00177.41      CS3
ATOM  34910  CA  ASN C  63     215.748 148.779  40.542  1.00177.41      CS3
ATOM  34911  CB  ASN C  63     215.788 150.271  40.209  1.00195.82      CS3
ATOM  34912  CG  ASN C  63     216.206 151.119  41.396  1.00195.82      CS3
ATOM  34913  OD1 ASN C  63     215.508 151.171  42.412  1.00195.82      CS3
ATOM  34914  ND2 ASN C  63     217.350 151.783  41.279  1.00195.82      CS3
ATOM  34915  C   ASN C  63     214.962 148.015  39.483  1.00177.41      CS3
ATOM  34916  O   ASN C  63     215.427 147.834  38.356  1.00177.41      CS3
ATOM  34917  N   VAL C  64     213.766 147.570  39.854  1.00 76.36      CS3
ATOM  34918  CA  VAL C  64     212.921 146.796  38.956  1.00 76.36      CS3
ATOM  34919  CB  VAL C  64     212.878 145.328  39.407  1.00 85.27      CS3
ATOM  34920  CG1 VAL C  64     212.250 144.479  38.326  1.00 85.27      CS3
ATOM  34921  CG2 VAL C  64     214.280 144.838  39.744  1.00 85.27      CS3
ATOM  34922  C   VAL C  64     211.487 147.323  38.910  1.00 76.36      CS3
ATOM  34923  O   VAL C  64     210.817 147.390  39.938  1.00 76.36      CS3
ATOM  34924  N   ALA C  65     211.014 147.676  37.716  1.00121.29      CS3
ATOM  34925  CA  ALA C  65     209.656 148.198  37.542  1.00121.29      CS3
ATOM  34926  CB  ALA C  65     209.488 148.769  36.125  1.00 71.90      CS3
ATOM  34927  C   ALA C  65     208.568 147.152  37.817  1.00121.29      CS3
ATOM  34928  O   ALA C  65     207.963 147.146  38.890  1.00121.29      CS3
ATOM  34929  N   VAL C  66     208.322 146.279  36.840  1.00 66.16      CS3
ATOM  34930  CA  VAL C  66     207.311 145.226  36.956  1.00 66.16      CS3
ATOM  34931  CB  VAL C  66     207.500 144.408  38.257  1.00 54.02      CS3
ATOM  34932  CG1 VAL C  66     206.601 143.183  38.241  1.00 54.02      CS3
ATOM  34933  CG2 VAL C  66     208.949 143.988  38.398  1.00 54.02      CS3
ATOM  34934  C   VAL C  66     205.912 145.845  36.933  1.00 66.16      CS3
ATOM  34935  O   VAL C  66     205.048 145.522  37.751  1.00 66.16      CS3
ATOM  34936  N   THR C  67     205.709 146.725  35.960  1.00 54.11      CS3
ATOM  34937  CA  THR C  67     204.460 147.459  35.767  1.00 54.11      CS3
ATOM  34938  CB  THR C  67     204.719 148.622  34.778  1.00 66.66      CS3
ATOM  34939  OG1 THR C  67     205.974 149.245  35.098  1.00 66.66      CS3
ATOM  34940  CG2 THR C  67     203.598 149.658  34.845  1.00 66.66      CS3
ATOM  34941  C   THR C  67     203.238 146.642  35.282  1.00 54.11      CS3
ATOM  34942  O   THR C  67     202.425 147.146  34.505  1.00 54.11      CS3
ATOM  34943  N   VAL C  68     203.106 145.403  35.754  1.00 61.02      CS3
ATOM  34944  CA  VAL C  68     202.002 144.497  35.383  1.00 61.02      CS3
ATOM  34945  CB  VAL C  68     201.728 143.509  36.534  1.00 42.38      CS3
ATOM  34946  CG1 VAL C  68     200.550 142.602  36.196  1.00 42.38      CS3
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ATOM  34947  CG2 VAL C  68     202.980 142.697  36.814  1.00 42.38       CS3
ATOM  34948  C   VAL C  68     200.651 145.118  34.978  1.00 61.02       CS3
ATOM  34949  O   VAL C  68     200.092 145.927  35.721  1.00 61.02       CS3
ATOM  34950  N   HIS C  69     200.125 144.703  33.817  1.00 60.69       CS3
ATOM  34951  CA  HIS C  69     198.837 145.188  33.283  1.00 60.69       CS3
ATOM  34952  CB  HIS C  69     198.988 145.538  31.814  1.00 75.72       CS3
ATOM  34953  CG  HIS C  69     200.026 146.578  31.563  1.00 75.72       CS3
ATOM  34954  CD2 HIS C  69     201.374 146.486  31.474  1.00 75.72       CS3
ATOM  34955  ND1 HIS C  69     199.723 147.917  31.449  1.00 75.72       CS3
ATOM  34956  CE1 HIS C  69     200.841 148.606  31.301  1.00 75.72       CS3
ATOM  34957  NE2 HIS C  69     201.857 147.761  31.313  1.00 75.72       CS3
ATOM  34958  C   HIS C  69     197.731 144.152  33.435  1.00 60.69       CS3
ATOM  34959  O   HIS C  69     197.910 142.996  33.059  1.00 60.69       CS3
ATOM  34960  N   VAL C  70     196.580 144.564  33.967  1.00 69.86       CS3
ATOM  34961  CA  VAL C  70     195.482 143.623  34.191  1.00 69.86       CS3
ATOM  34962  CB  VAL C  70     195.454 143.182  35.675  1.00 78.83       CS3
ATOM  34963  CG1 VAL C  70     194.627 141.920  35.826  1.00 78.83       CS3
ATOM  34964  CG2 VAL C  70     196.871 142.966  36.191  1.00 78.83       CS3
ATOM  34965  C   VAL C  70     194.070 144.098  33.816  1.00 69.86       CS3
ATOM  34966  O   VAL C  70     193.835 145.279  33.573  1.00 69.86       CS3
ATOM  34967  N   ALA C  71     193.135 143.153  33.774  1.00 77.84       CS3
ATOM  34968  CA  ALA C  71     191.743 143.449  33.459  1.00 77.84       CS3
ATOM  34969  CB  ALA C  71     191.145 142.327  32.630  1.00 79.90       CS3
ATOM  34970  C   ALA C  71     190.979 143.595  34.772  1.00 77.84       CS3
ATOM  34971  O   ALA C  71     190.056 144.407  34.881  1.00 77.84       CS3
ATOM  34972  N   LYS C  72     191.366 142.790  35.762  1.00 92.81       CS3
ATOM  34973  CA  LYS C  72     190.754 142.824  37.090  1.00 92.81       CS3
ATOM  34974  CB  LYS C  72     190.164 141.461  37.460  1.00146.42       CS3
ATOM  34975  CG  LYS C  72     188.951 141.060  36.642  1.00146.42       CS3
ATOM  34976  CD  LYS C  72     187.999 140.199  37.462  1.00146.42       CS3
ATOM  34977  CE  LYS C  72     187.442 140.983  38.649  1.00146.42       CS3
ATOM  34978  NZ  LYS C  72     186.474 140.201  39.468  1.00146.42       CS3
ATOM  34979  C   LYS C  72     191.809 143.214  38.120  1.00 92.81       CS3
ATOM  34980  O   LYS C  72     192.259 142.384  38.914  1.00 92.81       CS3
ATOM  34981  N   PRO C  73     192.210 144.496  38.121  1.00 85.94       CS3
ATOM  34982  CD  PRO C  73     191.550 145.601  37.402  1.00 38.05       CS3
ATOM  34983  CA  PRO C  73     193.222 145.007  39.054  1.00 85.94       CS3
ATOM  34984  CB  PRO C  73     193.144 146.524  38.862  1.00 38.05       CS3
ATOM  34985  CG  PRO C  73     191.743 146.741  38.349  1.00 38.05       CS3
ATOM  34986  C   PRO C  73     192.969 144.575  40.488  1.00 85.94       CS3
ATOM  34987  O   PRO C  73     193.903 144.270  41.232  1.00 85.94       CS3
ATOM  34988  N   GLY C  74     191.696 144.543  40.865  1.00 84.60       CS3
ATOM  34989  CA  GLY C  74     191.347 144.132  42.207  1.00 84.60       CS3
ATOM  34990  C   GLY C  74     192.070 142.852  42.563  1.00 84.60       CS3
ATOM  34991  O   GLY C  74     192.768 142.780  43.571  1.00 84.60       CS3
ATOM  34992  N   VAL C  75     191.917 141.841  41.719  1.00 52.67       CS3
ATOM  34993  CA  VAL C  75     192.549 140.553  41.950  1.00 52.67       CS3
ATOM  34994  CB  VAL C  75     192.453 139.669  40.697  1.00201.26       CS3
ATOM  34995  CG1 VAL C  75     192.987 138.281  41.003  1.00201.26       CS3
ATOM  34996  CG2 VAL C  75     191.010 139.601  40.223  1.00201.26       CS3
ATOM  34997  C   VAL C  75     194.020 140.686  42.346  1.00 52.67       CS3
ATOM  34998  O   VAL C  75     194.495 140.008  43.265  1.00 52.67       CS3
ATOM  34999  N   VAL C  76     194.747 141.552  41.648  1.00114.34       CS3
ATOM  35000  CA  VAL C  76     196.154 141.747  41.966  1.00114.34       CS3
ATOM  35001  CB  VAL C  76     196.789 142.870  41.112  1.00121.17       CS3
ATOM  35002  CG1 VAL C  76     198.294 142.897  41.327  1.00121.17       CS3
ATOM  35003  CG2 VAL C  76     196.468 142.659  39.647  1.00121.17       CS3
ATOM  35004  C   VAL C  76     196.204 142.165  43.425  1.00114.34       CS3
ATOM  35005  O   VAL C  76     196.700 141.435  44.285  1.00114.34       CS3
ATOM  35006  N   ILE C  77     195.653 143.346  43.682  1.00142.27       CS3
ATOM  35007  CA  ILE C  77     195.597 143.934  45.011  1.00142.27       CS3
ATOM  35008  CB  ILE C  77     194.484 144.987  45.088  1.00 59.30       CS3
ATOM  35009  CG2 ILE C  77     194.515 145.657  46.455  1.00 59.30       CS3
ATOM  35010  CG1 ILE C  77     194.628 145.997  43.937  1.00 59.30       CS3
ATOM  35011  CD1 ILE C  77     195.866 146.874  43.997  1.00 59.30       CS3
ATOM  35012  C   ILE C  77     195.354 142.919  46.124  1.00142.27       CS3
ATOM  35013  O   ILE C  77     196.161 142.796  47.041  1.00142.27       CS3
ATOM  35014  N   GLY C  78     194.234 142.207  46.045  1.00201.26       CS3
ATOM  35015  CA  GLY C  78     193.905 141.221  47.061  1.00201.26       CS3
ATOM  35016  C   GLY C  78     192.688 141.626  47.873  1.00201.26       CS3
ATOM  35017  O   GLY C  78     191.651 140.962  47.829  1.00201.26       CS3
ATOM  35018  N   ARG C  79     192.823 142.719  48.621  1.00160.91       CS3
ATOM  35019  CA  ARG C  79     191.746 143.255  49.452  1.00160.91       CS3
ATOM  35020  CB  ARG C  79     191.147 142.160  50.339  1.00201.25       CS3
ATOM  35021  CG  ARG C  79     192.146 141.437  51.215  1.00201.25       CS3
ATOM  35022  CD  ARG C  79     191.448 140.372  52.033  1.00201.25       CS3
ATOM  35023  NE  ARG C  79     192.368 139.657  52.908  1.00201.25       CS3
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ATOM  35024  CZ  ARG C  79     192.009 138.657  53.707  1.00201.25      CS3
ATOM  35025  NH1 ARG C  79     190.745 138.252  53.740  1.00201.25      CS3
ATOM  35026  NH2 ARG C  79     192.912 138.061  54.474  1.00201.25      CS3
ATOM  35027  C   ARG C  79     192.266 144.402  50.315  1.00160.91      CS3
ATOM  35028  O   ARG C  79     192.740 144.192  51.432  1.00160.91      CS3
ATOM  35029  N   GLY C  80     192.172 145.616  49.780  1.00135.01      CS3
ATOM  35030  CA  GLY C  80     192.645 146.785  50.497  1.00135.01      CS3
ATOM  35031  C   GLY C  80     194.135 146.977  50.294  1.00135.01      CS3
ATOM  35032  O   GLY C  80     194.675 148.053  50.550  1.00135.01      CS3
ATOM  35033  N   GLY C  81     194.796 145.926  49.820  1.00162.01      CS3
ATOM  35034  CA  GLY C  81     196.228 145.973  49.590  1.00162.01      CS3
ATOM  35035  C   GLY C  81     196.910 144.848  50.345  1.00162.01      CS3
ATOM  35036  O   GLY C  81     198.101 144.919  50.648  1.00162.01      CS3
ATOM  35037  N   GLU C  82     196.142 143.804  50.644  1.00 96.62      CS3
ATOM  35038  CA  GLU C  82     196.637 142.645  51.379  1.00 96.62      CS3
ATOM  35039  CB  GLU C  82     195.461 141.915  52.041  1.00183.08      CS3
ATOM  35040  CG  GLU C  82     195.862 140.709  52.875  1.00183.08      CS3
ATOM  35041  CD  GLU C  82     196.794 141.073  54.015  1.00183.08      CS3
ATOM  35042  OE1 GLU C  82     196.371 141.840  54.904  1.00183.08      CS3
ATOM  35043  OE2 GLU C  82     197.949 140.595  54.020  1.00183.08      CS3
ATOM  35044  C   GLU C  82     197.437 141.659  50.522  1.00 96.62      CS3
ATOM  35045  O   GLU C  82     198.082 140.756  51.057  1.00 96.62      CS3
ATOM  35046  N   ARG C  83     197.394 141.824  49.200  1.00 92.97      CS3
ATOM  35047  CA  ARG C  83     198.130 140.940  48.295  1.00 92.97      CS3
ATOM  35048  CB  ARG C  83     197.175 140.188  47.366  1.00135.16      CS3
ATOM  35049  CG  ARG C  83     197.885 139.209  46.447  1.00135.16      CS3
ATOM  35050  CD  ARG C  83     196.947 138.595  45.420  1.00135.16      CS3
ATOM  35051  NE  ARG C  83     197.619 137.566  44.630  1.00135.16      CS3
ATOM  35052  CZ  ARG C  83     197.044 136.880  43.647  1.00135.16      CS3
ATOM  35053  NH1 ARG C  83     195.779 137.113  43.326  1.00135.16      CS3
ATOM  35054  NH2 ARG C  83     197.735 135.961  42.988  1.00135.16      CS3
ATOM  35055  C   ARG C  83     199.149 141.703  47.451  1.00 92.97      CS3
ATOM  35056  O   ARG C  83     200.288 141.265  47.303  1.00 92.97      CS3
ATOM  35057  N   ILE C  84     198.737 142.838  46.892  1.00 83.01      CS3
ATOM  35058  CA  ILE C  84     199.631 143.652  46.077  1.00 83.01      CS3
ATOM  35059  CB  ILE C  84     198.964 144.987  45.676  1.00136.40      CS3
ATOM  35060  CG2 ILE C  84     198.437 145.699  46.914  1.00136.40      CS3
ATOM  35061  CG1 ILE C  84     199.965 145.859  44.910  1.00136.40      CS3
ATOM  35062  CD1 ILE C  84     199.423 147.209  44.494  1.00136.40      CS3
ATOM  35063  C   ILE C  84     200.898 143.937  46.881  1.00 83.01      CS3
ATOM  35064  O   ILE C  84     201.895 144.433  46.351  1.00 83.01      CS3
ATOM  35065  N   ARG C  85     200.838 143.617  48.170  1.00133.60      CS3
ATOM  35066  CA  ARG C  85     201.957 143.798  49.082  1.00133.60      CS3
ATOM  35067  CB  ARG C  85     201.448 144.267  50.449  1.00201.26      CS3
ATOM  35068  CG  ARG C  85     202.449 144.109  51.587  1.00201.26      CS3
ATOM  35069  CD  ARG C  85     203.766 144.802  51.282  1.00201.26      CS3
ATOM  35070  NE  ARG C  85     204.750 144.584  52.338  1.00201.26      CS3
ATOM  35071  CZ  ARG C  85     206.022 144.966  52.266  1.00201.26      CS3
ATOM  35072  NH1 ARG C  85     206.470 145.588  51.183  1.00201.26      CS3
ATOM  35073  NH2 ARG C  85     206.847 144.727  53.278  1.00201.26      CS3
ATOM  35074  C   ARG C  85     202.701 142.473  49.228  1.00133.60      CS3
ATOM  35075  O   ARG C  85     203.915 142.444  49.435  1.00133.60      CS3
ATOM  35076  N   VAL C  86     201.964 141.375  49.118  1.00117.26      CS3
ATOM  35077  CA  VAL C  86     202.553 140.050  49.234  1.00117.26      CS3
ATOM  35078  CB  VAL C  86     201.465 138.976  49.350  1.00 92.23      CS3
ATOM  35079  CG1 VAL C  86     202.098 137.617  49.592  1.00 92.23      CS3
ATOM  35080  CG2 VAL C  86     200.524 139.329  50.480  1.00 92.23      CS3
ATOM  35081  C   VAL C  86     203.426 139.747  48.022  1.00117.26      CS3
ATOM  35082  O   VAL C  86     204.570 139.311  48.168  1.00117.26      CS3
ATOM  35083  N   LEU C  87     202.883 139.971  46.827  1.00 95.38      CS3
ATOM  35084  CA  LEU C  87     203.632 139.735  45.597  1.00 95.38      CS3
ATOM  35085  CB  LEU C  87     202.801 140.102  44.369  1.00100.34      CS3
ATOM  35086  CG  LEU C  87     201.433 139.447  44.203  1.00100.34      CS3
ATOM  35087  CD1 LEU C  87     200.749 140.045  42.980  1.00100.34      CS3
ATOM  35088  CD2 LEU C  87     201.583 137.936  44.076  1.00100.34      CS3
ATOM  35089  C   LEU C  87     204.851 140.635  45.645  1.00 95.38      CS3
ATOM  35090  O   LEU C  87     205.957 140.221  45.302  1.00 95.38      CS3
ATOM  35091  N   ARG C  88     204.628 141.874  46.075  1.00 74.68      CS3
ATOM  35092  CA  ARG C  88     205.692 142.863  46.186  1.00 74.68      CS3
ATOM  35093  CB  ARG C  88     205.135 144.160  46.779  1.00154.67      CS3
ATOM  35094  CG  ARG C  88     205.664 145.429  46.133  1.00154.67      CS3
ATOM  35095  CD  ARG C  88     204.563 146.481  46.075  1.00154.67      CS3
ATOM  35096  NE  ARG C  88     204.939 147.656  45.292  1.00154.67      CS3
ATOM  35097  CZ  ARG C  88     204.088 148.609  44.919  1.00154.67      CS3
ATOM  35098  NH1 ARG C  88     202.807 148.527  45.256  1.00154.67      CS3
ATOM  35099  NH2 ARG C  88     204.516 149.644  44.207  1.00154.67      CS3
ATOM  35100  C   ARG C  88     206.782 142.298  47.088  1.00 74.68      CS3
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ATOM  35101  O   ARG C  88     207.968 142.388  46.784  1.00 74.68       CS3
ATOM  35102  N   GLU C  89     206.366 141.694  48.193  1.00132.36       CS3
ATOM  35103  CA  GLU C  89     207.310 141.121  49.137  1.00132.36       CS3
ATOM  35104  CB  GLU C  89     206.668 141.025  50.525  1.00201.26       CS3
ATOM  35105  CG  GLU C  89     207.651 140.755  51.655  1.00201.26       CS3
ATOM  35106  CD  GLU C  89     206.978 140.705  53.014  1.00201.26       CS3
ATOM  35107  OE1 GLU C  89     206.278 141.676  53.371  1.00201.26       CS3
ATOM  35108  OE2 GLU C  89     207.152 139.696  53.729  1.00201.26       CS3
ATOM  35109  C   GLU C  89     207.769 139.741  48.684  1.00132.36       CS3
ATOM  35110  O   GLU C  89     208.565 139.095  49.362  1.00132.36       CS3
ATOM  35111  N   GLU C  90     207.274 139.292  47.534  1.00103.52       CS3
ATOM  35112  CA  GLU C  90     207.645 137.977  47.021  1.00103.52       CS3
ATOM  35113  CB  GLU C  90     206.404 137.223  46.537  1.00143.18       CS3
ATOM  35114  CG  GLU C  90     206.485 135.703  46.684  1.00143.18       CS3
ATOM  35115  CD  GLU C  90     207.791 135.111  46.170  1.00143.18       CS3
ATOM  35116  OE1 GLU C  90     208.838 135.297  46.825  1.00143.18       CS3
ATOM  35117  OE2 GLU C  90     207.772 134.456  45.109  1.00143.18       CS3
ATOM  35118  C   GLU C  90     208.654 138.084  45.878  1.00103.52       CS3
ATOM  35119  O   GLU C  90     209.704 137.437  45.897  1.00103.52       CS3
ATOM  35120  N   LEU C  91     208.335 138.903  44.882  1.00 85.96       CS3
ATOM  35121  CA  LEU C  91     209.229 139.076  43.746  1.00 85.96       CS3
ATOM  35122  CB  LEU C  91     208.545 139.915  42.651  1.00 93.06       CS3
ATOM  35123  CG  LEU C  91     208.531 141.448  42.642  1.00 93.06       CS3
ATOM  35124  CD1 LEU C  91     207.565 141.916  41.559  1.00 93.06       CS3
ATOM  35125  CD2 LEU C  91     208.112 141.991  43.985  1.00 93.06       CS3
ATOM  35126  C   LEU C  91     210.517 139.737  44.230  1.00 85.96       CS3
ATOM  35127  O   LEU C  91     211.413 140.050  43.445  1.00 85.96       CS3
ATOM  35128  N   ALA C  92     210.594 139.934  45.543  1.00 76.41       CS3
ATOM  35129  CA  ALA C  92     211.761 140.530  46.181  1.00 76.41       CS3
ATOM  35130  CB  ALA C  92     211.335 141.387  47.365  1.00146.98       CS3
ATOM  35131  C   ALA C  92     212.677 139.402  46.645  1.00 76.41       CS3
ATOM  35132  O   ALA C  92     213.805 139.641  47.075  1.00 76.41       CS3
ATOM  35133  N   LYS C  93     212.172 138.174  46.569  1.00135.62       CS3
ATOM  35134  CA  LYS C  93     212.949 136.998  46.937  1.00135.62       CS3
ATOM  35135  CB  LYS C  93     212.030 135.846  47.345  1.00147.25       CS3
ATOM  35136  CG  LYS C  93     211.426 135.987  48.724  1.00147.25       CS3
ATOM  35137  CD  LYS C  93     212.503 135.920  49.793  1.00147.25       CS3
ATOM  35138  CE  LYS C  93     211.908 136.074  51.184  1.00147.25       CS3
ATOM  35139  NZ  LYS C  93     212.947 136.009  52.252  1.00147.25       CS3
ATOM  35140  C   LYS C  93     213.708 136.618  45.677  1.00135.62       CS3
ATOM  35141  O   LYS C  93     214.786 136.022  45.727  1.00135.62       CS3
ATOM  35142  N   LEU C  94     213.122 136.987  44.542  1.00 93.59       CS3
ATOM  35143  CA  LEU C  94     213.702 136.707  43.239  1.00 93.59       CS3
ATOM  35144  CB  LEU C  94     212.610 136.708  42.168  1.00100.96       CS3
ATOM  35145  CG  LEU C  94     211.242 136.119  42.524  1.00100.96       CS3
ATOM  35146  CD1 LEU C  94     210.361 136.192  41.285  1.00100.96       CS3
ATOM  35147  CD2 LEU C  94     211.372 134.677  43.021  1.00100.96       CS3
ATOM  35148  C   LEU C  94     214.733 137.771  42.900  1.00 93.59       CS3
ATOM  35149  O   LEU C  94     215.936 137.546  43.007  1.00 93.59       CS3
ATOM  35150  N   THR C  95     214.243 138.936  42.495  1.00113.94       CS3
ATOM  35151  CA  THR C  95     215.112 140.041  42.127  1.00113.94       CS3
ATOM  35152  CB  THR C  95     214.297 141.299  41.755  1.00148.89       CS3
ATOM  35153  OG1 THR C  95     213.414 141.634  42.832  1.00148.89       CS3
ATOM  35154  CG2 THR C  95     213.487 141.056  40.494  1.00148.89       CS3
ATOM  35155  C   THR C  95     216.098 140.421  43.223  1.00113.94       CS3
ATOM  35156  O   THR C  95     217.283 140.625  42.947  1.00113.94       CS3
ATOM  35157  N   GLY C  96     215.615 140.509  44.461  1.00160.77       CS3
ATOM  35158  CA  GLY C  96     216.488 140.899  45.552  1.00160.77       CS3
ATOM  35159  C   GLY C  96     217.282 142.063  45.003  1.00160.77       CS3
ATOM  35160  O   GLY C  96     218.484 142.189  45.225  1.00160.77       CS3
ATOM  35161  N   LYS C  97     216.581 142.906  44.253  1.00166.47       CS3
ATOM  35162  CA  LYS C  97     217.175 144.063  43.604  1.00166.47       CS3
ATOM  35163  CB  LYS C  97     217.343 143.752  42.107  1.00133.95       CS3
ATOM  35164  CG  LYS C  97     218.082 144.808  41.293  1.00133.95       CS3
ATOM  35165  CD  LYS C  97     218.088 144.482  39.795  1.00133.95       CS3
ATOM  35166  CE  LYS C  97     218.760 145.589  38.981  1.00133.95       CS3
ATOM  35167  NZ  LYS C  97     218.698 145.355  37.511  1.00133.95       CS3
ATOM  35168  C   LYS C  97     216.271 145.284  43.801  1.00166.47       CS3
ATOM  35169  O   LYS C  97     216.056 146.062  42.872  1.00166.47       CS3
ATOM  35170  N   ASN C  98     215.747 145.448  45.014  1.00119.07       CS3
ATOM  35171  CA  ASN C  98     214.854 146.564  45.324  1.00119.07       CS3
ATOM  35172  CB  ASN C  98     215.643 147.877  45.389  1.00201.26       CS3
ATOM  35173  CG  ASN C  98     214.787 149.054  45.828  1.00201.26       CS3
ATOM  35174  OD1 ASN C  98     213.941 149.542  45.078  1.00201.26       CS3
ATOM  35175  ND2 ASN C  98     215.002 149.512  47.056  1.00201.26       CS3
ATOM  35176  C   ASN C  98     213.766 146.651  44.253  1.00119.07       CS3
ATOM  35177  O   ASN C  98     213.615 147.666  43.573  1.00119.07       CS3
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ATOM	35178	N	VAL	C	99	213.008	145.570	44.114	1.00131.74	CS3
ATOM	35179	CA	VAL	C	99	211.951	145.492	43.117	1.00131.74	CS3
ATOM	35180	CB	VAL	C	99	211.648	144.020	42.755	1.00112.05	CS3
ATOM	35181	CG1	VAL	C	99	211.191	143.261	43.992	1.00112.05	CS3
ATOM	35182	CG2	VAL	C	99	210.591	143.958	41.669	1.00112.05	CS3
ATOM	35183	C	VAL	C	99	210.647	146.157	43.539	1.00131.74	CS3
ATOM	35184	O	VAL	C	99	210.189	146.000	44.671	1.00131.74	CS3
ATOM	35185	N	ALA	C	100	210.056	146.903	42.611	1.00129.27	CS3
ATOM	35186	CA	ALA	C	100	208.787	147.577	42.856	1.00129.27	CS3
ATOM	35187	CB	ALA	C	100	208.683	148.839	41.990	1.00 40.58	CS3
ATOM	35188	C	ALA	C	100	207.676	146.589	42.498	1.00129.27	CS3
ATOM	35189	O	ALA	C	100	207.786	145.396	42.788	1.00129.27	CS3
ATOM	35190	N	LEU	C	101	206.615	147.094	41.870	1.00 47.78	CS3
ATOM	35191	CA	LEU	C	101	205.480	146.280	41.442	1.00 47.78	CS3
ATOM	35192	CB	LEU	C	101	205.140	145.185	42.464	1.00 49.73	CS3
ATOM	35193	CG	LEU	C	101	204.305	143.981	41.989	1.00 49.73	CS3
ATOM	35194	CD1	LEU	C	101	203.930	143.155	43.203	1.00 49.73	CS3
ATOM	35195	CD2	LEU	C	101	203.040	144.408	41.248	1.00 49.73	CS3
ATOM	35196	C	LEU	C	101	204.270	147.175	41.277	1.00 47.78	CS3
ATOM	35197	O	LEU	C	101	203.334	147.102	42.067	1.00 47.78	CS3
ATOM	35198	N	ASN	C	102	204.290	148.022	40.256	1.00 83.42	CS3
ATOM	35199	CA	ASN	C	102	203.169	148.917	39.996	1.00 83.42	CS3
ATOM	35200	CB	ASN	C	102	203.656	150.117	39.189	1.00148.57	CS3
ATOM	35201	CG	ASN	C	102	204.782	150.855	39.885	1.00148.57	CS3
ATOM	35202	OD1	ASN	C	102	204.586	151.454	40.944	1.00148.57	CS3
ATOM	35203	ND2	ASN	C	102	205.975	150.803	39.304	1.00148.57	CS3
ATOM	35204	C	ASN	C	102	202.063	148.160	39.251	1.00 83.42	CS3
ATOM	35205	O	ASN	C	102	202.253	147.008	38.856	1.00 83.42	CS3
ATOM	35206	N	VAL	C	103	200.905	148.789	39.075	1.00 99.43	CS3
ATOM	35207	CA	VAL	C	103	199.801	148.129	38.382	1.00 99.43	CS3
ATOM	35208	CB	VAL	C	103	198.825	147.447	39.388	1.00 56.47	CS3
ATOM	35209	CG1	VAL	C	103	197.608	146.880	38.656	1.00 56.47	CS3
ATOM	35210	CG2	VAL	C	103	199.547	146.336	40.136	1.00 56.47	CS3
ATOM	35211	C	VAL	C	103	199.003	149.064	37.480	1.00 99.43	CS3
ATOM	35212	O	VAL	C	103	198.857	150.257	37.756	1.00 99.43	CS3
ATOM	35213	N	GLN	C	104	198.502	148.496	36.389	1.00 86.25	CS3
ATOM	35214	CA	GLN	C	104	197.704	149.225	35.418	1.00 86.25	CS3
ATOM	35215	CB	GLN	C	104	198.520	149.512	34.158	1.00131.84	CS3
ATOM	35216	CG	GLN	C	104	198.908	150.964	34.025	1.00131.84	CS3
ATOM	35217	CD	GLN	C	104	197.700	151.875	34.087	1.00131.84	CS3
ATOM	35218	OE1	GLN	C	104	196.819	151.816	33.228	1.00131.84	CS3
ATOM	35219	NE2	GLN	C	104	197.647	152.718	35.112	1.00131.84	CS3
ATOM	35220	C	GLN	C	104	196.486	148.388	35.066	1.00 86.25	CS3
ATOM	35221	O	GLN	C	104	196.514	147.159	35.173	1.00 86.25	CS3
ATOM	35222	N	GLU	C	105	195.414	149.059	34.658	1.00108.44	CS3
ATOM	35223	CA	GLU	C	105	194.179	148.377	34.300	1.00108.44	CS3
ATOM	35224	CB	GLU	C	105	192.978	149.024	34.999	1.00201.26	CS3
ATOM	35225	CG	GLU	C	105	191.640	148.366	34.667	1.00201.26	CS3
ATOM	35226	CD	GLU	C	105	190.452	149.084	35.286	1.00201.26	CS3
ATOM	35227	OE1	GLU	C	105	190.242	150.274	34.967	1.00201.26	CS3
ATOM	35228	OE2	GLU	C	105	189.727	148.458	36.089	1.00201.26	CS3
ATOM	35229	C	GLU	C	105	193.958	148.410	32.802	1.00108.44	CS3
ATOM	35230	O	GLU	C	105	194.108	149.449	32.159	1.00108.44	CS3
ATOM	35231	N	VAL	C	106	193.605	147.257	32.253	1.00 84.17	CS3
ATOM	35232	CA	VAL	C	106	193.344	147.151	30.833	1.00 84.17	CS3
ATOM	35233	CB	VAL	C	106	193.342	145.677	30.371	1.00 80.20	CS3
ATOM	35234	CG1	VAL	C	106	193.200	145.612	28.860	1.00 80.20	CS3
ATOM	35235	CG2	VAL	C	106	194.626	144.981	30.815	1.00 80.20	CS3
ATOM	35236	C	VAL	C	106	191.964	147.756	30.614	1.00 84.17	CS3
ATOM	35237	O	VAL	C	106	190.947	147.159	30.972	1.00 84.17	CS3
ATOM	35238	N	GLN	C	107	191.936	148.957	30.051	1.00101.91	CS3
ATOM	35239	CA	GLN	C	107	190.680	149.644	29.788	1.00101.91	CS3
ATOM	35240	CB	GLN	C	107	190.937	151.127	29.513	1.00196.12	CS3
ATOM	35241	CG	GLN	C	107	192.398	151.538	29.630	1.00196.12	CS3
ATOM	35242	CD	GLN	C	107	193.287	150.808	28.642	1.00196.12	CS3
ATOM	35243	OE1	GLN	C	107	193.097	150.904	27.430	1.00196.12	CS3
ATOM	35244	NE2	GLN	C	107	194.262	150.069	29.159	1.00196.12	CS3
ATOM	35245	C	GLN	C	107	190.005	149.000	28.584	1.00101.91	CS3
ATOM	35246	O	GLN	C	107	190.281	149.372	27.439	1.00101.91	CS3
ATOM	35247	N	ASN	C	108	189.126	148.035	28.860	1.00 96.42	CS3
ATOM	35248	CA	ASN	C	108	188.391	147.286	27.833	1.00 96.42	CS3
ATOM	35249	CB	ASN	C	108	187.975	148.203	26.680	1.00100.70	CS3
ATOM	35250	CG	ASN	C	108	187.502	147.433	25.473	1.00100.70	CS3
ATOM	35251	OD1	ASN	C	108	186.691	146.507	25.583	1.00100.70	CS3
ATOM	35252	ND2	ASN	C	108	188.005	147.811	24.305	1.00100.70	CS3
ATOM	35253	C	ASN	C	108	189.210	146.112	27.296	1.00 96.42	CS3
ATOM	35254	O	ASN	C	108	189.832	146.196	26.240	1.00 96.42	CS3

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ATOM  35255  N   PRO C 109     189.202 144.989  28.021  1.00 76.40      CS3
ATOM  35256  CD  PRO C 109     188.276 144.668  29.118  1.00 77.03      CS3
ATOM  35257  CA  PRO C 109     189.948 143.801  27.620  1.00 76.40      CS3
ATOM  35258  CB  PRO C 109     189.621 142.810  28.732  1.00 77.03      CS3
ATOM  35259  CG  PRO C 109     188.222 143.158  29.064  1.00 77.03      CS3
ATOM  35260  C   PRO C 109     189.522 143.297  26.248  1.00 76.40      CS3
ATOM  35261  O   PRO C 109     190.302 142.664  25.534  1.00 76.40      CS3
ATOM  35262  N   ASN C 110     188.282 143.592  25.880  1.00 97.58      CS3
ATOM  35263  CA  ASN C 110     187.752 143.148  24.603  1.00 97.58      CS3
ATOM  35264  CB  ASN C 110     186.316 143.636  24.448  1.00151.84      CS3
ATOM  35265  CG  ASN C 110     185.353 142.501  24.207  1.00151.84      CS3
ATOM  35266  OD1 ASN C 110     185.437 141.458  24.857  1.00151.84      CS3
ATOM  35267  ND2 ASN C 110     184.427 142.694  23.274  1.00151.84      CS3
ATOM  35268  C   ASN C 110     188.587 143.566  23.394  1.00 97.58      CS3
ATOM  35269  O   ASN C 110     188.272 143.189  22.269  1.00 97.58      CS3
ATOM  35270  N   LEU C 111     189.649 144.336  23.622  1.00 62.02      CS3
ATOM  35271  CA  LEU C 111     190.523 144.771  22.535  1.00 62.02      CS3
ATOM  35272  CB  LEU C 111     190.424 146.273  22.307  1.00 26.98      CS3
ATOM  35273  CG  LEU C 111     189.124 146.786  21.722  1.00 26.98      CS3
ATOM  35274  CD1 LEU C 111     189.402 148.062  20.926  1.00 26.98      CS3
ATOM  35275  CD2 LEU C 111     188.524 145.725  20.831  1.00 26.98      CS3
ATOM  35276  C   LEU C 111     191.990 144.423  22.725  1.00 62.02      CS3
ATOM  35277  O   LEU C 111     192.832 144.830  21.928  1.00 62.02      CS3
ATOM  35278  N   SER C 112     192.310 143.706  23.792  1.00 45.53      CS3
ATOM  35279  CA  SER C 112     193.687 143.312  23.993  1.00 45.53      CS3
ATOM  35280  CB  SER C 112     194.109 143.472  25.454  1.00 84.06      CS3
ATOM  35281  OG  SER C 112     193.584 142.435  26.258  1.00 84.06      CS3
ATOM  35282  C   SER C 112     193.703 141.850  23.594  1.00 45.53      CS3
ATOM  35283  O   SER C 112     193.135 141.002  24.287  1.00 45.53      CS3
ATOM  35284  N   ALA C 113     194.326 141.565  22.455  1.00 49.37      CS3
ATOM  35285  CA  ALA C 113     194.415 140.202  21.943  1.00 49.37      CS3
ATOM  35286  CB  ALA C 113     195.430 140.144  20.798  1.00103.12      CS3
ATOM  35287  C   ALA C 113     194.777 139.170  23.022  1.00 49.37      CS3
ATOM  35288  O   ALA C 113     194.137 138.117  23.128  1.00 49.37      CS3
ATOM  35289  N   PRO C 114     195.802 139.465  23.840  1.00 48.67      CS3
ATOM  35290  CD  PRO C 114     196.588 140.712  23.903  1.00123.95      CS3
ATOM  35291  CA  PRO C 114     196.221 138.540  24.893  1.00 48.67      CS3
ATOM  35292  CB  PRO C 114     197.092 139.413  25.784  1.00123.95      CS3
ATOM  35293  CG  PRO C 114     197.744 140.325  24.797  1.00123.95      CS3
ATOM  35294  C   PRO C 114     195.039 137.953  25.638  1.00 48.67      CS3
ATOM  35295  O   PRO C 114     195.025 136.769  25.986  1.00 48.67      CS3
ATOM  35296  N   LEU C 115     194.034 138.788  25.867  1.00 46.83      CS3
ATOM  35297  CA  LEU C 115     192.855 138.355  26.586  1.00 46.83      CS3
ATOM  35298  CB  LEU C 115     192.175 139.565  27.217  1.00 91.30      CS3
ATOM  35299  CG  LEU C 115     193.122 140.282  28.182  1.00 91.30      CS3
ATOM  35300  CD1 LEU C 115     192.454 141.517  28.732  1.00 91.30      CS3
ATOM  35301  CD2 LEU C 115     193.522 139.342  29.309  1.00 91.30      CS3
ATOM  35302  C   LEU C 115     191.890 137.598  25.695  1.00 46.83      CS3
ATOM  35303  O   LEU C 115     191.509 136.467  26.015  1.00 46.83      CS3
ATOM  35304  N   VAL C 116     191.507 138.205  24.574  1.00 42.20      CS3
ATOM  35305  CA  VAL C 116     190.568 137.560  23.649  1.00 42.20      CS3
ATOM  35306  CB  VAL C 116     190.491 138.316  22.300  1.00 45.46      CS3
ATOM  35307  CG1 VAL C 116     189.151 138.020  21.629  1.00 45.46      CS3
ATOM  35308  CG2 VAL C 116     190.681 139.818  22.516  1.00 45.46      CS3
ATOM  35309  C   VAL C 116     190.988 136.106  23.386  1.00 42.20      CS3
ATOM  35310  O   VAL C 116     190.156 135.226  23.142  1.00 42.20      CS3
ATOM  35311  N   ALA C 117     192.294 135.876  23.442  1.00 58.74      CS3
ATOM  35312  CA  ALA C 117     192.851 134.550  23.250  1.00 58.74      CS3
ATOM  35313  CB  ALA C 117     194.367 134.633  23.158  1.00 45.06      CS3
ATOM  35314  C   ALA C 117     192.451 133.710  24.453  1.00 58.74      CS3
ATOM  35315  O   ALA C 117     191.741 132.706  24.320  1.00 58.74      CS3
ATOM  35316  N   GLN C 118     192.918 134.144  25.625  1.00 68.53      CS3
ATOM  35317  CA  GLN C 118     192.645 133.473  26.894  1.00 68.53      CS3
ATOM  35318  CB  GLN C 118     193.101 134.349  28.065  1.00132.41      CS3
ATOM  35319  CG  GLN C 118     194.604 134.553  28.160  1.00132.41      CS3
ATOM  35320  CD  GLN C 118     194.993 135.518  29.268  1.00132.41      CS3
ATOM  35321  OE1 GLN C 118     194.637 136.695  29.230  1.00132.41      CS3
ATOM  35322  NE2 GLN C 118     195.723 135.022  30.261  1.00132.41      CS3
ATOM  35323  C   GLN C 118     191.164 133.148  27.054  1.00 68.53      CS3
ATOM  35324  O   GLN C 118     190.812 132.069  27.536  1.00 68.53      CS3
ATOM  35325  N   ARG C 119     190.306 134.088  26.655  1.00 72.72      CS3
ATOM  35326  CA  ARG C 119     188.857 133.910  26.745  1.00 72.72      CS3
ATOM  35327  CB  ARG C 119     188.133 135.149  26.204  1.00183.12      CS3
ATOM  35328  CG  ARG C 119     186.620 134.990  26.058  1.00183.12      CS3
ATOM  35329  CD  ARG C 119     185.955 134.579  27.368  1.00183.12      CS3
ATOM  35330  NE  ARG C 119     184.502 134.485  27.243  1.00183.12      CS3
ATOM  35331  CZ  ARG C 119     183.691 134.071  28.212  1.00183.12      CS3
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ATOM  35332  NH1 ARG C 119     184.184 133.706  29.388  1.00183.12      CS3
ATOM  35333  NH2 ARG C 119     182.383 134.021  28.004  1.00183.12      CS3
ATOM  35334  C   ARG C 119     188.434 132.685  25.950  1.00 72.72      CS3
ATOM  35335  O   ARG C 119     187.830 131.754  26.493  1.00 72.72      CS3
ATOM  35336  N   VAL C 120     188.758 132.695  24.659  1.00 41.80      CS3
ATOM  35337  CA  VAL C 120     188.425 131.586  23.781  1.00 41.80      CS3
ATOM  35338  CB  VAL C 120     188.862 131.851  22.346  1.00 24.96      CS3
ATOM  35339  CG1 VAL C 120     188.475 130.678  21.501  1.00 24.96      CS3
ATOM  35340  CG2 VAL C 120     188.204 133.111  21.808  1.00 24.96      CS3
ATOM  35341  C   VAL C 120     189.152 130.361  24.288  1.00 41.80      CS3
ATOM  35342  O   VAL C 120     188.637 129.245  24.239  1.00 41.80      CS3
ATOM  35343  N   ALA C 121     190.367 130.581  24.771  1.00 58.44      CS3
ATOM  35344  CA  ALA C 121     191.154 129.493  25.318  1.00 58.44      CS3
ATOM  35345  CB  ALA C 121     192.432 130.030  25.935  1.00113.71      CS3
ATOM  35346  C   ALA C 121     190.289 128.846  26.387  1.00 58.44      CS3
ATOM  35347  O   ALA C 121     189.977 127.654  26.317  1.00 58.44      CS3
ATOM  35348  N   GLU C 122     189.892 129.662  27.361  1.00107.84      CS3
ATOM  35349  CA  GLU C 122     189.058 129.221  28.471  1.00107.84      CS3
ATOM  35350  CB  GLU C 122     188.622 130.419  29.323  1.00201.26      CS3
ATOM  35351  CG  GLU C 122     189.752 131.080  30.104  1.00201.26      CS3
ATOM  35352  CD  GLU C 122     189.267 132.205  31.005  1.00201.26      CS3
ATOM  35353  OE1 GLU C 122     188.405 131.944  31.870  1.00201.26      CS3
ATOM  35354  OE2 GLU C 122     189.752 133.348  30.852  1.00201.26      CS3
ATOM  35355  C   GLU C 122     187.831 128.471  27.982  1.00107.84      CS3
ATOM  35356  O   GLU C 122     187.669 127.285  28.277  1.00107.84      CS3
ATOM  35357  N   GLN C 123     186.972 129.159  27.235  1.00 51.65      CS3
ATOM  35358  CA  GLN C 123     185.760 128.530  26.721  1.00 51.65      CS3
ATOM  35359  CB  GLN C 123     185.134 129.389  25.614  1.00 57.42      CS3
ATOM  35360  CG  GLN C 123     184.714 130.787  26.051  1.00 57.42      CS3
ATOM  35361  CD  GLN C 123     183.838 131.499  25.015  1.00 57.42      CS3
ATOM  35362  OE1 GLN C 123     182.713 131.086  24.757  1.00 57.42      CS3
ATOM  35363  NE2 GLN C 123     184.356 132.568  24.423  1.00 57.42      CS3
ATOM  35364  C   GLN C 123     186.047 127.114  26.194  1.00 51.65      CS3
ATOM  35365  O   GLN C 123     185.498 126.128  26.697  1.00 51.65      CS3
ATOM  35366  N   ILE C 124     186.927 127.023  25.201  1.00 89.23      CS3
ATOM  35367  CA  ILE C 124     187.292 125.747  24.588  1.00 89.23      CS3
ATOM  35368  CB  ILE C 124     188.487 125.919  23.632  1.00 52.24      CS3
ATOM  35369  CG2 ILE C 124     188.868 124.570  23.023  1.00 52.24      CS3
ATOM  35370  CG1 ILE C 124     188.132 126.935  22.548  1.00 52.24      CS3
ATOM  35371  CD1 ILE C 124     189.259 127.243  21.584  1.00 52.24      CS3
ATOM  35372  C   ILE C 124     187.653 124.655  25.590  1.00 89.23      CS3
ATOM  35373  O   ILE C 124     187.258 123.496  25.435  1.00 89.23      CS3
ATOM  35374  N   GLU C 125     188.421 125.026  26.606  1.00100.00      CS3
ATOM  35375  CA  GLU C 125     188.846 124.073  27.617  1.00100.00      CS3
ATOM  35376  CB  GLU C 125     189.894 124.714  28.527  1.00173.93      CS3
ATOM  35377  CG  GLU C 125     191.138 125.174  27.784  1.00173.93      CS3
ATOM  35378  CD  GLU C 125     192.165 125.808  28.697  1.00173.93      CS3
ATOM  35379  OE1 GLU C 125     191.846 126.838  29.327  1.00173.93      CS3
ATOM  35380  OE2 GLU C 125     193.290 125.275  28.785  1.00173.93      CS3
ATOM  35381  C   GLU C 125     187.659 123.599  28.436  1.00100.00      CS3
ATOM  35382  O   GLU C 125     187.653 122.478  28.951  1.00100.00      CS3
ATOM  35383  N   ARG C 126     186.650 124.458  28.537  1.00 93.27      CS3
ATOM  35384  CA  ARG C 126     185.446 124.146  29.297  1.00 93.27      CS3
ATOM  35385  CB  ARG C 126     184.764 125.439  29.751  1.00174.47      CS3
ATOM  35386  CG  ARG C 126     185.630 126.338  30.623  1.00174.47      CS3
ATOM  35387  CD  ARG C 126     184.881 127.604  31.021  1.00174.47      CS3
ATOM  35388  NE  ARG C 126     185.699 128.497  31.837  1.00174.47      CS3
ATOM  35389  CZ  ARG C 126     185.295 129.683  32.280  1.00174.47      CS3
ATOM  35390  NH1 ARG C 126     184.079 130.124  31.987  1.00174.47      CS3
ATOM  35391  NH2 ARG C 126     186.108 130.430  33.017  1.00174.47      CS3
ATOM  35392  C   ARG C 126     184.455 123.317  28.490  1.00 93.27      CS3
ATOM  35393  O   ARG C 126     183.359 123.031  28.965  1.00 93.27      CS3
ATOM  35394  N   ARG C 127     184.851 122.928  27.279  1.00 51.32      CS3
ATOM  35395  CA  ARG C 127     184.001 122.150  26.378  1.00 51.32      CS3
ATOM  35396  CB  ARG C 127     183.353 120.981  27.128  1.00107.71      CS3
ATOM  35397  CG  ARG C 127     183.955 119.623  26.809  1.00107.71      CS3
ATOM  35398  CD  ARG C 127     184.012 118.740  28.045  1.00107.71      CS3
ATOM  35399  NE  ARG C 127     184.869 119.331  29.070  1.00107.71      CS3
ATOM  35400  CZ  ARG C 127     185.268 118.703  30.171  1.00107.71      CS3
ATOM  35401  NH1 ARG C 127     184.886 117.454  30.400  1.00107.71      CS3
ATOM  35402  NH2 ARG C 127     186.060 119.323  31.038  1.00107.71      CS3
ATOM  35403  C   ARG C 127     182.924 123.039  25.759  1.00 51.32      CS3
ATOM  35404  O   ARG C 127     181.756 122.682  25.734  1.00 51.32      CS3
ATOM  35405  N   PHE C 128     183.328 124.197  25.252  1.00 66.27      CS3
ATOM  35406  CA  PHE C 128     182.387 125.128  24.649  1.00 66.27      CS3
ATOM  35407  CB  PHE C 128     182.703 126.550  25.113  1.00164.85      CS3
ATOM  35408  CG  PHE C 128     181.495 127.427  25.234  1.00164.85      CS3
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ATOM  35409  CD1 PHE C 128     180.541 127.180  26.213  1.00164.85       CS3
ATOM  35410  CD2 PHE C 128     181.308 128.501  24.371  1.00164.85       CS3
ATOM  35411  CE1 PHE C 128     179.417 127.990  26.333  1.00164.85       CS3
ATOM  35412  CE2 PHE C 128     180.187 129.318  24.481  1.00164.85       CS3
ATOM  35413  CZ  PHE C 128     179.239 129.062  25.465  1.00164.85       CS3
ATOM  35414  C   PHE C 128     182.421 125.061  23.116  1.00 66.27       CS3
ATOM  35415  O   PHE C 128     183.378 124.549  22.523  1.00 66.27       CS3
ATOM  35416  N   ALA C 129     181.369 125.582  22.486  1.00 83.63       CS3
ATOM  35417  CA  ALA C 129     181.246 125.590  21.027  1.00 83.63       CS3
ATOM  35418  CB  ALA C 129     179.869 126.106  20.628  1.00175.73       CS3
ATOM  35419  C   ALA C 129     182.330 126.445  20.379  1.00 83.63       CS3
ATOM  35420  O   ALA C 129     182.228 127.674  20.342  1.00 83.63       CS3
ATOM  35421  N   VAL C 130     183.357 125.789  19.849  1.00 52.70       CS3
ATOM  35422  CA  VAL C 130     184.467 126.509  19.234  1.00 52.70       CS3
ATOM  35423  CB  VAL C 130     185.557 125.558  18.720  1.00 36.57       CS3
ATOM  35424  CG1 VAL C 130     186.707 126.364  18.147  1.00 36.57       CS3
ATOM  35425  CG2 VAL C 130     186.039 124.664  19.854  1.00 36.57       CS3
ATOM  35426  C   VAL C 130     184.067 127.414  18.093  1.00 52.70       CS3
ATOM  35427  O   VAL C 130     184.197 128.627  18.199  1.00 52.70       CS3
ATOM  35428  N   ARG C 131     183.587 126.830  17.002  1.00 58.35       CS3
ATOM  35429  CA  ARG C 131     183.200 127.642  15.863  1.00 58.35       CS3
ATOM  35430  CB  ARG C 131     182.408 126.829  14.832  1.00154.78       CS3
ATOM  35431  CG  ARG C 131     182.282 127.544  13.484  1.00154.78       CS3
ATOM  35432  CD  ARG C 131     181.741 126.640  12.382  1.00154.78       CS3
ATOM  35433  NE  ARG C 131     181.634 127.344  11.104  1.00154.78       CS3
ATOM  35434  CZ  ARG C 131     181.149 126.809   9.985  1.00154.78       CS3
ATOM  35435  NH1 ARG C 131     180.723 125.553   9.976  1.00154.78       CS3
ATOM  35436  NH2 ARG C 131     181.085 127.531   8.874  1.00154.78       CS3
ATOM  35437  C   ARG C 131     182.384 128.830  16.345  1.00 58.35       CS3
ATOM  35438  O   ARG C 131     182.392 129.888  15.720  1.00 58.35       CS3
ATOM  35439  N   ARG C 132     181.694 128.659  17.470  1.00 77.67       CS3
ATOM  35440  CA  ARG C 132     180.893 129.737  18.048  1.00 77.67       CS3
ATOM  35441  CB  ARG C 132     179.847 129.170  19.008  1.00201.00       CS3
ATOM  35442  CG  ARG C 132     178.866 130.203  19.544  1.00201.00       CS3
ATOM  35443  CD  ARG C 132     178.113 129.663  20.748  1.00201.00       CS3
ATOM  35444  NE  ARG C 132     177.535 128.348  20.484  1.00201.00       CS3
ATOM  35445  CZ  ARG C 132     176.933 127.598  21.402  1.00201.00       CS3
ATOM  35446  NH1 ARG C 132     176.826 128.031  22.651  1.00201.00       CS3
ATOM  35447  NH2 ARG C 132     176.443 126.410  21.074  1.00201.00       CS3
ATOM  35448  C   ARG C 132     181.848 130.645  18.817  1.00 77.67       CS3
ATOM  35449  O   ARG C 132     182.066 131.806  18.445  1.00 77.67       CS3
ATOM  35450  N   ALA C 133     182.408 130.089  19.891  1.00 71.80       CS3
ATOM  35451  CA  ALA C 133     183.363 130.785  20.749  1.00 71.80       CS3
ATOM  35452  CB  ALA C 133     184.421 129.792  21.255  1.00  2.97       CS3
ATOM  35453  C   ALA C 133     184.040 131.881  19.949  1.00 71.80       CS3
ATOM  35454  O   ALA C 133     184.067 133.051  20.331  1.00 71.80       CS3
ATOM  35455  N   ILE C 134     184.571 131.457  18.814  1.00 48.50       CS3
ATOM  35456  CA  ILE C 134     185.287 132.312  17.902  1.00 48.50       CS3
ATOM  35457  CB  ILE C 134     185.953 131.467  16.826  1.00 71.17       CS3
ATOM  35458  CG2 ILE C 134     187.026 132.267  16.140  1.00 71.17       CS3
ATOM  35459  CG1 ILE C 134     186.581 130.235  17.473  1.00 71.17       CS3
ATOM  35460  CD1 ILE C 134     187.267 129.323  16.506  1.00 71.17       CS3
ATOM  35461  C   ILE C 134     184.395 133.344  17.246  1.00 48.50       CS3
ATOM  35462  O   ILE C 134     184.596 134.548  17.424  1.00 48.50       CS3
ATOM  35463  N   LYS C 135     183.419 132.880  16.476  1.00 74.04       CS3
ATOM  35464  CA  LYS C 135     182.520 133.801  15.806  1.00 74.04       CS3
ATOM  35465  CB  LYS C 135     181.260 133.081  15.332  1.00145.14       CS3
ATOM  35466  CG  LYS C 135     181.485 132.120  14.184  1.00145.14       CS3
ATOM  35467  CD  LYS C 135     180.186 131.436  13.784  1.00145.14       CS3
ATOM  35468  CE  LYS C 135     180.407 130.435  12.661  1.00145.14       CS3
ATOM  35469  NZ  LYS C 135     179.136 129.785  12.231  1.00145.14       CS3
ATOM  35470  C   LYS C 135     182.148 134.891  16.794  1.00 74.04       CS3
ATOM  35471  O   LYS C 135     182.026 136.064  16.420  1.00 74.04       CS3
ATOM  35472  N   GLN C 136     181.992 134.491  18.060  1.00 47.12       CS3
ATOM  35473  CA  GLN C 136     181.625 135.416  19.139  1.00 47.12       CS3
ATOM  35474  CB  GLN C 136     181.284 134.646  20.426  1.00131.21       CS3
ATOM  35475  CG  GLN C 136     180.151 133.630  20.305  1.00131.21       CS3
ATOM  35476  CD  GLN C 136     179.783 132.993  21.642  1.00131.21       CS3
ATOM  35477  OE1 GLN C 136     180.652 132.558  22.398  1.00131.21       CS3
ATOM  35478  NE2 GLN C 136     178.488 132.928  21.931  1.00131.21       CS3
ATOM  35479  C   GLN C 136     182.760 136.383  19.438  1.00 47.12       CS3
ATOM  35480  O   GLN C 136     182.667 137.579  19.159  1.00 47.12       CS3
ATOM  35481  N   ALA C 137     183.824 135.833  20.017  1.00 53.29       CS3
ATOM  35482  CA  ALA C 137     185.015 136.582  20.390  1.00 53.29       CS3
ATOM  35483  CB  ALA C 137     186.193 135.625  20.553  1.00 40.31       CS3
ATOM  35484  C   ALA C 137     185.353 137.652  19.367  1.00 53.29       CS3
ATOM  35485  O   ALA C 137     185.769 138.762  19.719  1.00 53.29       CS3
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ATOM	35486	N	VAL	C	138	185.170	137.314	18.096	1.00	54.26	CS3
ATOM	35487	CA	VAL	C	138	185.464	138.250	17.025	1.00	54.26	CS3
ATOM	35488	CB	VAL	C	138	185.435	137.558	15.688	1.00	40.66	CS3
ATOM	35489	CG1	VAL	C	138	185.823	138.540	14.598	1.00	40.66	CS3
ATOM	35490	CG2	VAL	C	138	186.375	136.374	15.732	1.00	40.66	CS3
ATOM	35491	C	VAL	C	138	184.467	139.389	17.018	1.00	54.26	CS3
ATOM	35492	O	VAL	C	138	184.845	140.563	16.912	1.00	54.26	CS3
ATOM	35493	N	GLN	C	139	183.189	139.033	17.113	1.00	63.09	CS3
ATOM	35494	CA	GLN	C	139	182.151	140.040	17.162	1.00	63.09	CS3
ATOM	35495	CB	GLN	C	139	180.786	139.399	17.400	1.00	112.94	CS3
ATOM	35496	CG	GLN	C	139	179.967	139.230	16.135	1.00	112.94	CS3
ATOM	35497	CD	GLN	C	139	179.618	140.560	15.477	1.00	112.94	CS3
ATOM	35498	OE1	GLN	C	139	178.922	140.597	14.461	1.00	112.94	CS3
ATOM	35499	NE2	GLN	C	139	180.100	141.657	16.055	1.00	112.94	CS3
ATOM	35500	C	GLN	C	139	182.535	140.921	18.337	1.00	63.09	CS3
ATOM	35501	O	GLN	C	139	182.678	142.134	18.194	1.00	63.09	CS3
ATOM	35502	N	ARG	C	140	182.733	140.292	19.494	1.00	73.69	CS3
ATOM	35503	CA	ARG	C	140	183.118	141.015	20.696	1.00	73.69	CS3
ATOM	35504	CB	ARG	C	140	183.746	140.070	21.722	1.00	96.86	CS3
ATOM	35505	CG	ARG	C	140	182.848	138.954	22.210	1.00	96.86	CS3
ATOM	35506	CD	ARG	C	140	183.441	138.331	23.460	1.00	96.86	CS3
ATOM	35507	NE	ARG	C	140	182.634	137.234	23.989	1.00	96.86	CS3
ATOM	35508	CZ	ARG	C	140	182.749	135.961	23.614	1.00	96.86	CS3
ATOM	35509	NH1	ARG	C	140	183.646	135.613	22.700	1.00	96.86	CS3
ATOM	35510	NH2	ARG	C	140	181.973	135.028	24.161	1.00	96.86	CS3
ATOM	35511	C	ARG	C	140	184.135	142.080	20.319	1.00	73.69	CS3
ATOM	35512	O	ARG	C	140	183.859	143.279	20.404	1.00	73.69	CS3
ATOM	35513	N	VAL	C	141	185.306	141.630	19.885	1.00	42.39	CS3
ATOM	35514	CA	VAL	C	141	186.377	142.540	19.505	1.00	42.39	CS3
ATOM	35515	CB	VAL	C	141	187.591	141.771	18.942	1.00	39.91	CS3
ATOM	35516	CG1	VAL	C	141	188.691	142.750	18.527	1.00	39.91	CS3
ATOM	35517	CG2	VAL	C	141	188.111	140.793	19.991	1.00	39.91	CS3
ATOM	35518	C	VAL	C	141	185.912	143.550	18.470	1.00	42.39	CS3
ATOM	35519	O	VAL	C	141	186.386	144.685	18.430	1.00	42.39	CS3
ATOM	35520	N	MET	C	142	184.978	143.142	17.629	1.00	75.32	CS3
ATOM	35521	CA	MET	C	142	184.493	144.051	16.614	1.00	75.32	CS3
ATOM	35522	CB	MET	C	142	183.884	143.260	15.454	1.00	85.26	CS3
ATOM	35523	CG	MET	C	142	184.297	143.770	14.081	1.00	85.26	CS3
ATOM	35524	SD	MET	C	142	186.083	143.993	13.972	1.00	85.26	CS3
ATOM	35525	CE	MET	C	142	186.175	145.754	13.814	1.00	85.26	CS3
ATOM	35526	C	MET	C	142	183.468	145.001	17.224	1.00	75.32	CS3
ATOM	35527	O	MET	C	142	183.293	146.128	16.756	1.00	75.32	CS3
ATOM	35528	N	GLU	C	143	182.799	144.543	18.278	1.00	114.19	CS3
ATOM	35529	CA	GLU	C	143	181.796	145.357	18.951	1.00	114.19	CS3
ATOM	35530	CB	GLU	C	143	181.061	144.546	20.022	1.00	201.26	CS3
ATOM	35531	CG	GLU	C	143	180.191	143.424	19.479	1.00	201.26	CS3
ATOM	35532	CD	GLU	C	143	179.325	142.787	20.552	1.00	201.26	CS3
ATOM	35533	OE1	GLU	C	143	178.486	143.503	21.139	1.00	201.26	CS3
ATOM	35534	OE2	GLU	C	143	179.480	141.574	20.808	1.00	201.26	CS3
ATOM	35535	C	GLU	C	143	182.472	146.547	19.599	1.00	114.19	CS3
ATOM	35536	O	GLU	C	143	182.109	147.693	19.343	1.00	114.19	CS3
ATOM	35537	N	SER	C	144	183.467	146.268	20.434	1.00	53.76	CS3
ATOM	35538	CA	SER	C	144	184.193	147.327	21.123	1.00	53.76	CS3
ATOM	35539	CB	SER	C	144	184.878	146.767	22.376	1.00	46.84	CS3
ATOM	35540	OG	SER	C	144	185.516	145.533	22.113	1.00	46.84	CS3
ATOM	35541	C	SER	C	144	185.211	148.047	20.239	1.00	53.76	CS3
ATOM	35542	O	SER	C	144	186.415	147.980	20.477	1.00	53.76	CS3
ATOM	35543	N	GLY	C	145	184.712	148.746	19.222	1.00	153.05	CS3
ATOM	35544	CA	GLY	C	145	185.584	149.481	18.322	1.00	153.05	CS3
ATOM	35545	C	GLY	C	145	186.371	148.585	17.389	1.00	153.05	CS3
ATOM	35546	O	GLY	C	145	185.828	147.640	16.819	1.00	153.05	CS3
ATOM	35547	N	ALA	C	146	187.656	148.888	17.234	1.00	108.61	CS3
ATOM	35548	CA	ALA	C	146	188.551	148.117	16.370	1.00	108.61	CS3
ATOM	35549	CB	ALA	C	146	188.518	146.634	16.748	1.00	2.26	CS3
ATOM	35550	C	ALA	C	146	188.210	148.279	14.896	1.00	108.61	CS3
ATOM	35551	O	ALA	C	146	187.082	148.631	14.541	1.00	108.61	CS3
ATOM	35552	N	LYS	C	147	189.195	148.023	14.039	1.00	68.42	CS3
ATOM	35553	CA	LYS	C	147	188.986	148.131	12.603	1.00	68.42	CS3
ATOM	35554	CB	LYS	C	147	189.987	149.113	11.985	1.00	106.14	CS3
ATOM	35555	CG	LYS	C	147	189.521	149.709	10.658	1.00	106.14	CS3
ATOM	35556	CD	LYS	C	147	190.609	150.528	9.966	1.00	106.14	CS3
ATOM	35557	CE	LYS	C	147	191.126	151.668	10.838	1.00	106.14	CS3
ATOM	35558	NZ	LYS	C	147	192.224	152.433	10.164	1.00	106.14	CS3
ATOM	35559	C	LYS	C	147	189.130	146.749	11.966	1.00	68.42	CS3
ATOM	35560	O	LYS	C	147	188.920	146.589	10.764	1.00	68.42	CS3
ATOM	35561	N	GLY	C	148	189.480	145.757	12.788	1.00	43.54	CS3
ATOM	35562	CA	GLY	C	148	189.631	144.392	12.310	1.00	43.54	CS3

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ATOM  35563  C   GLY C 148     190.106 143.436  13.387  1.00 43.54       CS3
ATOM  35564  O   GLY C 148     190.841 143.825  14.287  1.00 43.54       CS3
ATOM  35565  N   ALA C 149     189.688 142.180  13.304  1.00 33.78       CS3
ATOM  35566  CA  ALA C 149     190.098 141.176  14.284  1.00 33.78       CS3
ATOM  35567  CB  ALA C 149     189.262 141.302  15.538  1.00 61.51       CS3
ATOM  35568  C   ALA C 149     189.973 139.766  13.701  1.00 33.78       CS3
ATOM  35569  O   ALA C 149     189.199 139.540  12.775  1.00 33.78       CS3
ATOM  35570  N   LYS C 150     190.725 138.819  14.254  1.00 43.93       CS3
ATOM  35571  CA  LYS C 150     190.718 137.446  13.758  1.00 43.93       CS3
ATOM  35572  CB  LYS C 150     191.623 137.383  12.526  1.00 88.30       CS3
ATOM  35573  CG  LYS C 150     192.019 136.000  12.043  1.00 88.30       CS3
ATOM  35574  CD  LYS C 150     193.034 136.132  10.908  1.00 88.30       CS3
ATOM  35575  CE  LYS C 150     193.635 134.793  10.511  1.00 88.30       CS3
ATOM  35576  NZ  LYS C 150     194.649 134.927   9.418  1.00 88.30       CS3
ATOM  35577  C   LYS C 150     191.196 136.452  14.823  1.00 43.93       CS3
ATOM  35578  O   LYS C 150     192.193 136.692  15.512  1.00 43.93       CS3
ATOM  35579  N   VAL C 151     190.482 135.341  14.973  1.00 49.01       CS3
ATOM  35580  CA  VAL C 151     190.880 134.332  15.954  1.00 49.01       CS3
ATOM  35581  CB  VAL C 151     189.784 134.052  16.989  1.00 30.39       CS3
ATOM  35582  CG1 VAL C 151     190.405 133.407  18.218  1.00 30.39       CS3
ATOM  35583  CG2 VAL C 151     189.039 135.328  17.338  1.00 30.39       CS3
ATOM  35584  C   VAL C 151     191.161 133.032  15.224  1.00 49.01       CS3
ATOM  35585  O   VAL C 151     190.608 132.788  14.152  1.00 49.01       CS3
ATOM  35586  N   ILE C 152     192.001 132.187  15.808  1.00 28.07       CS3
ATOM  35587  CA  ILE C 152     192.357 130.924  15.170  1.00 28.07       CS3
ATOM  35588  CB  ILE C 152     193.690 131.040  14.388  1.00 26.85       CS3
ATOM  35589  CG2 ILE C 152     194.041 129.694  13.758  1.00 26.85       CS3
ATOM  35590  CG1 ILE C 152     193.593 132.131  13.326  1.00 26.85       CS3
ATOM  35591  CD1 ILE C 152     194.917 132.505  12.749  1.00 26.85       CS3
ATOM  35592  C   ILE C 152     192.548 129.794  16.162  1.00 28.07       CS3
ATOM  35593  O   ILE C 152     193.481 129.827  16.984  1.00 28.07       CS3
ATOM  35594  N   VAL C 153     191.697 128.778  16.081  1.00 35.29       CS3
ATOM  35595  CA  VAL C 153     191.861 127.658  16.993  1.00 35.29       CS3
ATOM  35596  CB  VAL C 153     190.507 127.014  17.361  1.00 56.29       CS3
ATOM  35597  CG1 VAL C 153     190.731 125.755  18.201  1.00 56.29       CS3
ATOM  35598  CG2 VAL C 153     189.674 128.014  18.155  1.00 56.29       CS3
ATOM  35599  C   VAL C 153     192.813 126.620  16.400  1.00 35.29       CS3
ATOM  35600  O   VAL C 153     192.512 125.959  15.404  1.00 35.29       CS3
ATOM  35601  N   SER C 154     193.981 126.525  17.029  1.00110.67       CS3
ATOM  35602  CA  SER C 154     195.042 125.603  16.645  1.00110.67       CS3
ATOM  35603  CB  SER C 154     195.694 125.017  17.889  1.00113.95       CS3
ATOM  35604  OG  SER C 154     194.756 124.250  18.625  1.00113.95       CS3
ATOM  35605  C   SER C 154     194.497 124.468  15.823  1.00110.67       CS3
ATOM  35606  O   SER C 154     194.622 124.449  14.601  1.00110.67       CS3
ATOM  35607  N   GLY C 155     193.890 123.518  16.521  1.00 38.67       CS3
ATOM  35608  CA  GLY C 155     193.312 122.367  15.860  1.00 38.67       CS3
ATOM  35609  C   GLY C 155     193.264 121.140  16.745  1.00 38.67       CS3
ATOM  35610  O   GLY C 155     194.125 120.963  17.615  1.00 38.67       CS3
ATOM  35611  N   ARG C 156     192.254 120.306  16.483  1.00 29.38       CS3
ATOM  35612  CA  ARG C 156     191.937 119.044  17.178  1.00 29.38       CS3
ATOM  35613  CB  ARG C 156     192.959 118.651  18.244  1.00 46.27       CS3
ATOM  35614  CG  ARG C 156     193.068 117.146  18.433  1.00 46.27       CS3
ATOM  35615  CD  ARG C 156     191.715 116.506  18.636  1.00 46.27       CS3
ATOM  35616  NE  ARG C 156     191.745 115.041  18.726  1.00 46.27       CS3
ATOM  35617  CZ  ARG C 156     192.471 114.336  19.596  1.00 46.27       CS3
ATOM  35618  NH1 ARG C 156     193.258 114.957  20.467  1.00 46.27       CS3
ATOM  35619  NH2 ARG C 156     192.382 113.007  19.622  1.00 46.27       CS3
ATOM  35620  C   ARG C 156     190.609 119.320  17.841  1.00 29.38       CS3
ATOM  35621  O   ARG C 156     190.193 118.636  18.772  1.00 29.38       CS3
ATOM  35622  N   ILE C 157     189.975 120.369  17.335  1.00 32.18       CS3
ATOM  35623  CA  ILE C 157     188.670 120.832  17.764  1.00 32.18       CS3
ATOM  35624  CB  ILE C 157     187.981 121.562  16.597  1.00 49.14       CS3
ATOM  35625  CG2 ILE C 157     186.525 121.825  16.923  1.00 49.14       CS3
ATOM  35626  CG1 ILE C 157     188.745 122.846  16.273  1.00 49.14       CS3
ATOM  35627  CD1 ILE C 157     188.208 123.596  15.062  1.00 49.14       CS3
ATOM  35628  C   ILE C 157     187.732 119.723  18.241  1.00 32.18       CS3
ATOM  35629  O   ILE C 157     187.557 118.704  17.571  1.00 32.18       CS3
ATOM  35630  N   GLY C 158     187.121 119.940  19.400  1.00 56.97       CS3
ATOM  35631  CA  GLY C 158     186.171 118.980  19.933  1.00 56.97       CS3
ATOM  35632  C   GLY C 158     186.622 117.545  20.129  1.00 56.97       CS3
ATOM  35633  O   GLY C 158     185.789 116.661  20.340  1.00 56.97       CS3
ATOM  35634  N   GLY C 159     187.928 117.304  20.072  1.00 60.95       CS3
ATOM  35635  CA  GLY C 159     188.429 115.954  20.271  1.00 60.95       CS3
ATOM  35636  C   GLY C 159     188.379 115.106  19.017  1.00 60.95       CS3
ATOM  35637  O   GLY C 159     188.685 113.908  19.051  1.00 60.95       CS3
ATOM  35638  N   ALA C 160     187.977 115.735  17.914  1.00 88.58       CS3
ATOM  35639  CA  ALA C 160     187.896 115.065  16.626  1.00 88.58       CS3
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ATOM  35640  CB  ALA C 160     187.779 116.090  15.516  1.00 47.09      CS3
ATOM  35641  C   ALA C 160     189.183 114.283  16.474  1.00 88.58      CS3
ATOM  35642  O   ALA C 160     190.257 114.871  16.374  1.00 88.58      CS3
ATOM  35643  N   GLU C 161     189.075 112.960  16.469  1.00 53.87      CS3
ATOM  35644  CA  GLU C 161     190.242 112.101  16.353  1.00 53.87      CS3
ATOM  35645  CB  GLU C 161     189.814 110.695  15.927  1.00201.26      CS3
ATOM  35646  CG  GLU C 161     190.935 109.669  15.960  1.00201.26      CS3
ATOM  35647  CD  GLU C 161     190.432 108.246  15.779  1.00201.26      CS3
ATOM  35648  OE1 GLU C 161     191.270 107.322  15.740  1.00201.26      CS3
ATOM  35649  OE2 GLU C 161     189.201 108.050  15.682  1.00201.26      CS3
ATOM  35650  C   GLU C 161     191.268 112.659  15.375  1.00 53.87      CS3
ATOM  35651  O   GLU C 161     192.456 112.361  15.493  1.00 53.87      CS3
ATOM  35652  N   GLN C 162     190.808 113.481  14.428  1.00 57.33      CS3
ATOM  35653  CA  GLN C 162     191.673 114.090  13.407  1.00 57.33      CS3
ATOM  35654  CB  GLN C 162     191.153 113.729  12.009  1.00201.26      CS3
ATOM  35655  CG  GLN C 162     192.227 113.581  10.931  1.00201.26      CS3
ATOM  35656  CD  GLN C 162     192.889 114.892  10.555  1.00201.26      CS3
ATOM  35657  OE1 GLN C 162     192.227 115.829  10.110  1.00201.26      CS3
ATOM  35658  NE2 GLN C 162     194.204 114.961  10.724  1.00201.26      CS3
ATOM  35659  C   GLN C 162     191.760 115.615  13.549  1.00 57.33      CS3
ATOM  35660  O   GLN C 162     190.751 116.320  13.475  1.00 57.33      CS3
ATOM  35661  N   ALA C 163     192.983 116.104  13.743  1.00 40.96      CS3
ATOM  35662  CA  ALA C 163     193.267 117.530  13.913  1.00 40.96      CS3
ATOM  35663  CB  ALA C 163     194.757 117.747  13.886  1.00 44.88      CS3
ATOM  35664  C   ALA C 163     192.603 118.441  12.884  1.00 40.96      CS3
ATOM  35665  O   ALA C 163     192.276 118.021  11.782  1.00 40.96      CS3
ATOM  35666  N   ARG C 164     192.421 119.706  13.234  1.00 53.88      CS3
ATOM  35667  CA  ARG C 164     191.781 120.621  12.306  1.00 53.88      CS3
ATOM  35668  CB  ARG C 164     190.263 120.575  12.506  1.00 81.53      CS3
ATOM  35669  CG  ARG C 164     189.445 120.598  11.218  1.00 81.53      CS3
ATOM  35670  CD  ARG C 164     187.986 120.932  11.498  1.00 81.53      CS3
ATOM  35671  NE  ARG C 164     187.467 120.186  12.639  1.00 81.53      CS3
ATOM  35672  CZ  ARG C 164     186.422 120.570  13.364  1.00 81.53      CS3
ATOM  35673  NH1 ARG C 164     185.782 121.694  13.062  1.00 81.53      CS3
ATOM  35674  NH2 ARG C 164     186.031 119.842  14.404  1.00 81.53      CS3
ATOM  35675  C   ARG C 164     192.279 122.050  12.488  1.00 53.88      CS3
ATOM  35676  O   ARG C 164     193.412 122.276  12.899  1.00 53.88      CS3
ATOM  35677  N   THR C 165     191.415 123.009  12.170  1.00 55.07      CS3
ATOM  35678  CA  THR C 165     191.742 124.418  12.288  1.00 55.07      CS3
ATOM  35679  CB  THR C 165     192.857 124.798  11.288  1.00 31.13      CS3
ATOM  35680  OG1 THR C 165     194.022 125.184  12.017  1.00 31.13      CS3
ATOM  35681  CG2 THR C 165     192.441 125.944  10.388  1.00 31.13      CS3
ATOM  35682  C   THR C 165     190.496 125.266  12.042  1.00 55.07      CS3
ATOM  35683  O   THR C 165     189.847 125.147  10.988  1.00 55.07      CS3
ATOM  35684  N   GLU C 166     190.162 126.105  13.028  1.00 47.64      CS3
ATOM  35685  CA  GLU C 166     189.000 126.984  12.934  1.00 47.64      CS3
ATOM  35686  CB  GLU C 166     188.046 126.734  14.097  1.00133.93      CS3
ATOM  35687  CG  GLU C 166     186.599 126.652  13.640  1.00133.93      CS3
ATOM  35688  CD  GLU C 166     186.417 125.723  12.447  1.00133.93      CS3
ATOM  35689  OE1 GLU C 166     186.643 124.503  12.596  1.00133.93      CS3
ATOM  35690  OE2 GLU C 166     186.054 126.215  11.357  1.00133.93      CS3
ATOM  35691  C   GLU C 166     189.369 128.467  12.841  1.00 47.64      CS3
ATOM  35692  O   GLU C 166     190.174 128.993  13.618  1.00 47.64      CS3
ATOM  35693  N   TRP C 167     188.727 129.114  11.875  1.00 65.61      CS3
ATOM  35694  CA  TRP C 167     188.938 130.505  11.507  1.00 65.61      CS3
ATOM  35695  CB  TRP C 167     188.596 130.641  10.040  1.00 72.12      CS3
ATOM  35696  CG  TRP C 167     189.748 130.973   9.237  1.00 72.12      CS3
ATOM  35697  CD2 TRP C 167     189.969 132.201   8.565  1.00 72.12      CS3
ATOM  35698  CE2 TRP C 167     191.224 132.114   7.949  1.00 72.12      CS3
ATOM  35699  CE3 TRP C 167     189.225 133.376   8.426  1.00 72.12      CS3
ATOM  35700  CD1 TRP C 167     190.838 130.200   9.014  1.00 72.12      CS3
ATOM  35701  NE1 TRP C 167     191.734 130.877   8.240  1.00 72.12      CS3
ATOM  35702  CZ2 TRP C 167     191.761 133.160   7.199  1.00 72.12      CS3
ATOM  35703  CZ3 TRP C 167     189.755 134.416   7.684  1.00 72.12      CS3
ATOM  35704  CH2 TRP C 167     191.013 134.302   7.078  1.00 72.12      CS3
ATOM  35705  C   TRP C 167     188.257 131.644  12.249  1.00 65.61      CS3
ATOM  35706  O   TRP C 167     188.427 131.808  13.450  1.00 65.61      CS3
ATOM  35707  N   ALA C 168     187.518 132.453  11.485  1.00 44.49      CS3
ATOM  35708  CA  ALA C 168     186.773 133.622  11.975  1.00 44.49      CS3
ATOM  35709  CB  ALA C 168     186.262 133.383  13.379  1.00 64.10      CS3
ATOM  35710  C   ALA C 168     187.580 134.912  11.935  1.00 44.49      CS3
ATOM  35711  O   ALA C 168     188.599 135.054  12.623  1.00 44.49      CS3
ATOM  35712  N   ALA C 169     187.104 135.860  11.136  1.00 24.50      CS3
ATOM  35713  CA  ALA C 169     187.791 137.128  10.999  1.00 24.50      CS3
ATOM  35714  CB  ALA C 169     189.093 136.912  10.281  1.00 13.09      CS3
ATOM  35715  C   ALA C 169     186.961 138.158  10.249  1.00 24.50      CS3
ATOM  35716  O   ALA C 169     186.329 137.837   9.243  1.00 24.50      CS3
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ATOM  35717  N   GLN C 170     186.972 139.398  10.741  1.00 57.57      CS3
ATOM  35718  CA  GLN C 170     186.233 140.498  10.121  1.00 57.57      CS3
ATOM  35719  CB  GLN C 170     184.928 140.757  10.880  1.00114.18      CS3
ATOM  35720  CG  GLN C 170     183.967 139.579  10.911  1.00114.18      CS3
ATOM  35721  CD  GLN C 170     182.760 139.837  11.796  1.00114.18      CS3
ATOM  35722  OE1 GLN C 170     182.019 140.799  11.588  1.00114.18      CS3
ATOM  35723  NE2 GLN C 170     182.556 138.976  12.789  1.00114.18      CS3
ATOM  35724  C   GLN C 170     187.085 141.769  10.125  1.00 57.57      CS3
ATOM  35725  O   GLN C 170     188.009 141.901  10.933  1.00 57.57      CS3
ATOM  35726  N   GLY C 171     186.778 142.697   9.219  1.00 39.96      CS3
ATOM  35727  CA  GLY C 171     187.518 143.946   9.147  1.00 39.96      CS3
ATOM  35728  C   GLY C 171     189.009 143.803   8.879  1.00 39.96      CS3
ATOM  35729  O   GLY C 171     189.647 142.858   9.359  1.00 39.96      CS3
ATOM  35730  N   ARG C 172     189.568 144.759   8.130  1.00 42.05      CS3
ATOM  35731  CA  ARG C 172     190.983 144.753   7.765  1.00 42.05      CS3
ATOM  35732  CB  ARG C 172     191.413 146.137   7.287  1.00112.63      CS3
ATOM  35733  CG  ARG C 172     190.720 146.568   6.014  1.00112.63      CS3
ATOM  35734  CD  ARG C 172     191.458 147.698   5.315  1.00112.63      CS3
ATOM  35735  NE  ARG C 172     191.665 148.854   6.179  1.00112.63      CS3
ATOM  35736  CZ  ARG C 172     192.684 148.985   7.022  1.00112.63      CS3
ATOM  35737  NH1 ARG C 172     193.602 148.030   7.117  1.00112.63      CS3
ATOM  35738  NH2 ARG C 172     192.780 150.072   7.774  1.00112.63      CS3
ATOM  35739  C   ARG C 172     191.929 144.272   8.856  1.00 42.05      CS3
ATOM  35740  O   ARG C 172     191.796 144.648  10.018  1.00 42.05      CS3
ATOM  35741  N   VAL C 173     192.877 143.422   8.464  1.00 42.59      CS3
ATOM  35742  CA  VAL C 173     193.881 142.864   9.372  1.00 42.59      CS3
ATOM  35743  CB  VAL C 173     193.426 141.506   9.912  1.00 21.30      CS3
ATOM  35744  CG1 VAL C 173     194.328 141.070  11.073  1.00 21.30      CS3
ATOM  35745  CG2 VAL C 173     191.955 141.581  10.322  1.00 21.30      CS3
ATOM  35746  C   VAL C 173     195.192 142.654   8.607  1.00 42.59      CS3
ATOM  35747  O   VAL C 173     195.773 141.571   8.650  1.00 42.59      CS3
ATOM  35748  N   PRO C 174     195.680 143.697   7.912  1.00 62.92      CS3
ATOM  35749  CD  PRO C 174     195.130 145.063   7.983  1.00 68.57      CS3
ATOM  35750  CA  PRO C 174     196.910 143.685   7.109  1.00 62.92      CS3
ATOM  35751  CB  PRO C 174     196.939 145.090   6.519  1.00 68.57      CS3
ATOM  35752  CG  PRO C 174     196.307 145.907   7.594  1.00 68.57      CS3
ATOM  35753  C   PRO C 174     198.210 143.338   7.824  1.00 62.92      CS3
ATOM  35754  O   PRO C 174     198.882 144.215   8.359  1.00 62.92      CS3
ATOM  35755  N   LEU C 175     198.585 142.064   7.811  1.00 44.84      CS3
ATOM  35756  CA  LEU C 175     199.812 141.660   8.480  1.00 44.84      CS3
ATOM  35757  CB  LEU C 175     199.796 140.163   8.769  1.00 28.39      CS3
ATOM  35758  CG  LEU C 175     198.604 139.611   9.537  1.00 28.39      CS3
ATOM  35759  CD1 LEU C 175     198.900 138.178   9.895  1.00 28.39      CS3
ATOM  35760  CD2 LEU C 175     198.364 140.403  10.803  1.00 28.39      CS3
ATOM  35761  C   LEU C 175     201.030 141.998   7.639  1.00 44.84      CS3
ATOM  35762  O   LEU C 175     202.168 141.874   8.092  1.00 44.84      CS3
ATOM  35763  N   HIS C 176     200.797 142.408   6.401  1.00 68.49      CS3
ATOM  35764  CA  HIS C 176     201.911 142.749   5.544  1.00 68.49      CS3
ATOM  35765  CB  HIS C 176     201.602 142.440   4.082  1.00 71.82      CS3
ATOM  35766  CG  HIS C 176     202.035 141.076   3.650  1.00 71.82      CS3
ATOM  35767  CD2 HIS C 176     203.071 140.674   2.877  1.00 71.82      CS3
ATOM  35768  ND1 HIS C 176     201.373 139.929   4.027  1.00 71.82      CS3
ATOM  35769  CE1 HIS C 176     201.978 138.878   3.504  1.00 71.82      CS3
ATOM  35770  NE2 HIS C 176     203.011 139.303   2.800  1.00 71.82      CS3
ATOM  35771  C   HIS C 176     202.226 144.214   5.699  1.00 68.49      CS3
ATOM  35772  O   HIS C 176     203.374 144.623   5.544  1.00 68.49      CS3
ATOM  35773  N   THR C 177     201.206 145.009   6.003  1.00 64.24      CS3
ATOM  35774  CA  THR C 177     201.424 146.435   6.179  1.00 64.24      CS3
ATOM  35775  CB  THR C 177     200.092 147.223   6.173  1.00 62.53      CS3
ATOM  35776  OG1 THR C 177     200.370 148.617   6.020  1.00 62.53      CS3
ATOM  35777  CG2 THR C 177     199.333 147.015   7.453  1.00 62.53      CS3
ATOM  35778  C   THR C 177     202.188 146.648   7.486  1.00 64.24      CS3
ATOM  35779  O   THR C 177     201.685 146.435   8.584  1.00 64.24      CS3
ATOM  35780  N   LEU C 178     203.439 147.036   7.330  1.00 70.25      CS3
ATOM  35781  CA  LEU C 178     204.334 147.265   8.439  1.00 70.25      CS3
ATOM  35782  CB  LEU C 178     205.757 147.340   7.891  1.00 49.04      CS3
ATOM  35783  CG  LEU C 178     206.944 147.142   8.821  1.00 49.04      CS3
ATOM  35784  CD1 LEU C 178     206.734 145.956   9.753  1.00 49.04      CS3
ATOM  35785  CD2 LEU C 178     208.166 146.941   7.959  1.00 49.04      CS3
ATOM  35786  C   LEU C 178     203.935 148.571   9.093  1.00 70.25      CS3
ATOM  35787  O   LEU C 178     204.597 149.582   8.903  1.00 70.25      CS3
ATOM  35788  N   ARG C 179     202.849 148.541   9.860  1.00 63.10      CS3
ATOM  35789  CA  ARG C 179     202.320 149.731  10.536  1.00 63.10      CS3
ATOM  35790  CB  ARG C 179     202.347 150.933   9.588  1.00 49.43      CS3
ATOM  35791  CG  ARG C 179     201.103 151.760   9.620  1.00 49.43      CS3
ATOM  35792  CD  ARG C 179     200.382 151.751   8.306  1.00 49.43      CS3
ATOM  35793  NE  ARG C 179     200.939 152.746   7.397  1.00 49.43      CS3
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ATOM	35794	CZ	ARG	C	179	200.256	153.345	6.418	1.00	49.43	CS3
ATOM	35795	NH1	ARG	C	179	198.973	153.054	6.209	1.00	49.43	CS3
ATOM	35796	NH2	ARG	C	179	200.857	154.249	5.646	1.00	49.43	CS3
ATOM	35797	C	ARG	C	179	200.879	149.459	10.965	1.00	63.10	CS3
ATOM	35798	O	ARG	C	179	200.203	150.312	11.532	1.00	63.10	CS3
ATOM	35799	N	ALA	C	180	200.415	148.253	10.677	1.00	91.67	CS3
ATOM	35800	CA	ALA	C	180	199.061	147.862	11.011	1.00	91.67	CS3
ATOM	35801	CB	ALA	C	180	198.849	146.405	10.673	1.00	111.81	CS3
ATOM	35802	C	ALA	C	180	198.773	148.091	12.475	1.00	91.67	CS3
ATOM	35803	O	ALA	C	180	197.694	148.555	12.835	1.00	91.67	CS3
ATOM	35804	N	ASN	C	181	199.746	147.783	13.321	1.00	62.40	CS3
ATOM	35805	CA	ASN	C	181	199.550	147.930	14.757	1.00	62.40	CS3
ATOM	35806	CB	ASN	C	181	199.077	149.336	15.121	1.00	75.35	CS3
ATOM	35807	CG	ASN	C	181	198.549	149.415	16.535	1.00	75.35	CS3
ATOM	35808	OD1	ASN	C	181	199.086	148.789	17.452	1.00	75.35	CS3
ATOM	35809	ND2	ASN	C	181	197.493	150.190	16.721	1.00	75.35	CS3
ATOM	35810	C	ASN	C	181	198.469	146.936	15.088	1.00	62.40	CS3
ATOM	35811	O	ASN	C	181	197.315	147.286	15.336	1.00	62.40	CS3
ATOM	35812	N	ILE	C	182	198.858	145.678	15.077	1.00	44.31	CS3
ATOM	35813	CA	ILE	C	182	197.915	144.623	15.329	1.00	44.31	CS3
ATOM	35814	CB	ILE	C	182	197.895	143.661	14.130	1.00	63.52	CS3
ATOM	35815	CG2	ILE	C	182	196.903	142.548	14.370	1.00	63.52	CS3
ATOM	35816	CG1	ILE	C	182	197.535	144.436	12.861	1.00	63.52	CS3
ATOM	35817	CD1	ILE	C	182	197.489	143.588	11.623	1.00	63.52	CS3
ATOM	35818	C	ILE	C	182	198.249	143.871	16.604	1.00	44.31	CS3
ATOM	35819	O	ILE	C	182	199.219	143.117	16.661	1.00	44.31	CS3
ATOM	35820	N	ASP	C	183	197.450	144.071	17.640	1.00	57.11	CS3
ATOM	35821	CA	ASP	C	183	197.741	143.359	18.859	1.00	57.11	CS3
ATOM	35822	CB	ASP	C	183	196.802	143.773	19.992	1.00	125.36	CS3
ATOM	35823	CG	ASP	C	183	197.296	143.306	21.352	1.00	125.36	CS3
ATOM	35824	OD1	ASP	C	183	196.665	143.654	22.372	1.00	125.36	CS3
ATOM	35825	OD2	ASP	C	183	198.321	142.592	21.401	1.00	125.36	CS3
ATOM	35826	C	ASP	C	183	197.583	141.882	18.549	1.00	57.11	CS3
ATOM	35827	O	ASP	C	183	196.576	141.448	17.973	1.00	57.11	CS3
ATOM	35828	N	TYR	C	184	198.611	141.124	18.901	1.00	36.95	CS3
ATOM	35829	CA	TYR	C	184	198.611	139.691	18.688	1.00	36.95	CS3
ATOM	35830	CB	TYR	C	184	199.824	139.277	17.857	1.00	54.81	CS3
ATOM	35831	CG	TYR	C	184	200.135	137.792	17.910	1.00	54.81	CS3
ATOM	35832	CD1	TYR	C	184	199.707	136.930	16.904	1.00	54.81	CS3
ATOM	35833	CE1	TYR	C	184	199.971	135.574	16.969	1.00	54.81	CS3
ATOM	35834	CD2	TYR	C	184	200.838	137.253	18.984	1.00	54.81	CS3
ATOM	35835	CE2	TYR	C	184	201.104	135.905	19.060	1.00	54.81	CS3
ATOM	35836	CZ	TYR	C	184	200.671	135.068	18.053	1.00	54.81	CS3
ATOM	35837	OH	TYR	C	184	200.946	133.721	18.140	1.00	54.81	CS3
ATOM	35838	C	TYR	C	184	198.687	138.998	20.028	1.00	36.95	CS3
ATOM	35839	O	TYR	C	184	199.352	139.471	20.945	1.00	36.95	CS3
ATOM	35840	N	GLY	C	185	198.022	137.863	20.137	1.00	29.37	CS3
ATOM	35841	CA	GLY	C	185	198.078	137.133	21.381	1.00	29.37	CS3
ATOM	35842	C	GLY	C	185	197.819	135.664	21.155	1.00	29.37	CS3
ATOM	35843	O	GLY	C	185	196.950	135.294	20.365	1.00	29.37	CS3
ATOM	35844	N	PHE	C	186	198.572	134.822	21.846	1.00	54.74	CS3
ATOM	35845	CA	PHE	C	186	198.396	133.392	21.712	1.00	54.74	CS3
ATOM	35846	CB	PHE	C	186	199.674	132.742	21.210	1.00	49.18	CS3
ATOM	35847	CG	PHE	C	186	199.708	131.258	21.413	1.00	49.18	CS3
ATOM	35848	CD1	PHE	C	186	198.825	130.433	20.737	1.00	49.18	CS3
ATOM	35849	CD2	PHE	C	186	200.615	130.686	22.295	1.00	49.18	CS3
ATOM	35850	CE1	PHE	C	186	198.846	129.057	20.939	1.00	49.18	CS3
ATOM	35851	CE2	PHE	C	186	200.643	129.310	22.503	1.00	49.18	CS3
ATOM	35852	CZ	PHE	C	186	199.757	128.495	21.823	1.00	49.18	CS3
ATOM	35853	C	PHE	C	186	198.029	132.786	23.046	1.00	54.74	CS3
ATOM	35854	O	PHE	C	186	198.575	133.160	24.078	1.00	54.74	CS3
ATOM	35855	N	ALA	C	187	197.109	131.834	23.021	1.00	41.81	CS3
ATOM	35856	CA	ALA	C	187	196.676	131.171	24.236	1.00	41.81	CS3
ATOM	35857	CB	ALA	C	187	195.291	131.657	24.614	1.00	35.95	CS3
ATOM	35858	C	ALA	C	187	196.665	129.665	24.019	1.00	41.81	CS3
ATOM	35859	O	ALA	C	187	196.144	129.174	23.014	1.00	41.81	CS3
ATOM	35860	N	LEU	C	188	197.247	128.942	24.969	1.00	41.74	CS3
ATOM	35861	CA	LEU	C	188	197.314	127.486	24.925	1.00	41.74	CS3
ATOM	35862	CB	LEU	C	188	198.208	126.998	26.067	1.00	60.52	CS3
ATOM	35863	CG	LEU	C	188	198.988	125.691	25.932	1.00	60.52	CS3
ATOM	35864	CD1	LEU	C	188	198.142	124.517	26.364	1.00	60.52	CS3
ATOM	35865	CD2	LEU	C	188	199.463	125.543	24.508	1.00	60.52	CS3
ATOM	35866	C	LEU	C	188	195.880	126.996	25.103	1.00	41.74	CS3
ATOM	35867	O	LEU	C	188	194.950	127.672	24.674	1.00	41.74	CS3
ATOM	35868	N	ALA	C	189	195.691	125.833	25.724	1.00	41.97	CS3
ATOM	35869	CA	ALA	C	189	194.347	125.291	25.964	1.00	41.97	CS3
ATOM	35870	CB	ALA	C	189	193.414	125.580	24.758	1.00	7.87	CS3

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ATOM  35871  C   ALA C 189     194.361 123.797  26.256  1.00 41.97      CS3
ATOM  35872  O   ALA C 189     193.626 123.042  25.629  1.00 41.97      CS3
ATOM  35873  N   ARG C 190     195.188 123.372  27.210  1.00 58.90      CS3
ATOM  35874  CA  ARG C 190     195.281 121.954  27.571  1.00 58.90      CS3
ATOM  35875  CB  ARG C 190     196.017 121.792  28.907  1.00130.94      CS3
ATOM  35876  CG  ARG C 190     197.412 122.411  28.952  1.00130.94      CS3
ATOM  35877  CD  ARG C 190     198.080 122.265  30.331  1.00130.94      CS3
ATOM  35878  NE  ARG C 190     198.501 120.897  30.651  1.00130.94      CS3
ATOM  35879  CZ  ARG C 190     197.697 119.926  31.083  1.00130.94      CS3
ATOM  35880  NH1 ARG C 190     196.402 120.151  31.260  1.00130.94      CS3
ATOM  35881  NH2 ARG C 190     198.192 118.721  31.344  1.00130.94      CS3
ATOM  35882  C   ARG C 190     193.883 121.334  27.680  1.00 58.90      CS3
ATOM  35883  O   ARG C 190     193.002 121.887  28.337  1.00 58.90      CS3
ATOM  35884  N   THR C 191     193.678 120.185  27.045  1.00 53.40      CS3
ATOM  35885  CA  THR C 191     192.369 119.535  27.083  1.00 53.40      CS3
ATOM  35886  CB  THR C 191     191.707 119.553  25.685  1.00 28.65      CS3
ATOM  35887  OG1 THR C 191     191.326 120.896  25.356  1.00 28.65      CS3
ATOM  35888  CG2 THR C 191     190.481 118.681  25.656  1.00 28.65      CS3
ATOM  35889  C   THR C 191     192.422 118.099  27.582  1.00 53.40      CS3
ATOM  35890  O   THR C 191     193.496 117.556  27.817  1.00 53.40      CS3
ATOM  35891  N   THR C 192     191.250 117.499  27.761  1.00 60.54      CS3
ATOM  35892  CA  THR C 192     191.141 116.122  28.209  1.00 60.54      CS3
ATOM  35893  CB  THR C 192     189.674 115.725  28.446  1.00131.16      CS3
ATOM  35894  OG1 THR C 192     189.594 114.315  28.698  1.00131.16      CS3
ATOM  35895  CG2 THR C 192     188.826 116.073  27.227  1.00131.16      CS3
ATOM  35896  C   THR C 192     191.707 115.227  27.121  1.00 60.54      CS3
ATOM  35897  O   THR C 192     191.989 114.048  27.350  1.00 60.54      CS3
ATOM  35898  N   TYR C 193     191.875 115.802  25.934  1.00 71.57      CS3
ATOM  35899  CA  TYR C 193     192.401 115.059  24.801  1.00 71.57      CS3
ATOM  35900  CB  TYR C 193     191.317 114.919  23.739  1.00 62.06      CS3
ATOM  35901  CG  TYR C 193     190.641 116.218  23.386  1.00 62.06      CS3
ATOM  35902  CD1 TYR C 193     191.335 117.240  22.747  1.00 62.06      CS3
ATOM  35903  CE1 TYR C 193     190.707 118.433  22.410  1.00 62.06      CS3
ATOM  35904  CD2 TYR C 193     189.300 116.422  23.685  1.00 62.06      CS3
ATOM  35905  CE2 TYR C 193     188.664 117.611  23.355  1.00 62.06      CS3
ATOM  35906  CZ  TYR C 193     189.372 118.609  22.718  1.00 62.06      CS3
ATOM  35907  OH  TYR C 193     188.734 119.776  22.386  1.00 62.06      CS3
ATOM  35908  C   TYR C 193     193.671 115.638  24.176  1.00 71.57      CS3
ATOM  35909  O   TYR C 193     194.345 114.953  23.418  1.00 71.57      CS3
ATOM  35910  N   GLY C 194     194.004 116.887  24.478  1.00 66.83      CS3
ATOM  35911  CA  GLY C 194     195.213 117.451  23.907  1.00 66.83      CS3
ATOM  35912  C   GLY C 194     195.318 118.963  23.795  1.00 66.83      CS3
ATOM  35913  O   GLY C 194     194.327 119.684  23.688  1.00 66.83      CS3
ATOM  35914  N   VAL C 195     196.554 119.441  23.808  1.00 50.50      CS3
ATOM  35915  CA  VAL C 195     196.825 120.857  23.708  1.00 50.50      CS3
ATOM  35916  CB  VAL C 195     198.332 121.112  23.785  1.00126.10      CS3
ATOM  35917  CG1 VAL C 195     198.622 122.584  23.610  1.00126.10      CS3
ATOM  35918  CG2 VAL C 195     198.863 120.623  25.105  1.00126.10      CS3
ATOM  35919  C   VAL C 195     196.313 121.409  22.392  1.00 50.50      CS3
ATOM  35920  O   VAL C 195     196.481 120.779  21.356  1.00 50.50      CS3
ATOM  35921  N   LEU C 196     195.678 122.577  22.439  1.00 23.97      CS3
ATOM  35922  CA  LEU C 196     195.177 123.241  21.233  1.00 23.97      CS3
ATOM  35923  CB  LEU C 196     193.694 122.942  20.999  1.00 45.77      CS3
ATOM  35924  CG  LEU C 196     193.038 121.685  21.575  1.00 45.77      CS3
ATOM  35925  CD1 LEU C 196     191.579 121.694  21.124  1.00 45.77      CS3
ATOM  35926  CD2 LEU C 196     193.743 120.408  21.119  1.00 45.77      CS3
ATOM  35927  C   LEU C 196     195.355 124.749  21.421  1.00 23.97      CS3
ATOM  35928  O   LEU C 196     194.639 125.375  22.192  1.00 23.97      CS3
ATOM  35929  N   GLY C 197     196.305 125.338  20.715  1.00 23.10      CS3
ATOM  35930  CA  GLY C 197     196.539 126.759  20.868  1.00 23.10      CS3
ATOM  35931  C   GLY C 197     195.475 127.657  20.276  1.00 23.10      CS3
ATOM  35932  O   GLY C 197     194.653 127.206  19.484  1.00 23.10      CS3
ATOM  35933  N   VAL C 198     195.483 128.932  20.655  1.00 21.09      CS3
ATOM  35934  CA  VAL C 198     194.507 129.859  20.120  1.00 21.09      CS3
ATOM  35935  CB  VAL C 198     193.372 130.100  21.114  1.00 50.75      CS3
ATOM  35936  CG1 VAL C 198     192.444 131.182  20.587  1.00 50.75      CS3
ATOM  35937  CG2 VAL C 198     192.600 128.812  21.324  1.00 50.75      CS3
ATOM  35938  C   VAL C 198     195.123 131.186  19.755  1.00 21.09      CS3
ATOM  35939  O   VAL C 198     195.623 131.892  20.615  1.00 21.09      CS3
ATOM  35940  N   LYS C 199     195.075 131.529  18.476  1.00 31.35      CS3
ATOM  35941  CA  LYS C 199     195.639 132.788  18.027  1.00 31.35      CS3
ATOM  35942  CB  LYS C 199     196.374 132.604  16.700  1.00 98.40      CS3
ATOM  35943  CG  LYS C 199     197.631 131.765  16.788  1.00 98.40      CS3
ATOM  35944  CD  LYS C 199     198.418 131.847  15.497  1.00 98.40      CS3
ATOM  35945  CE  LYS C 199     199.634 130.956  15.555  1.00 98.40      CS3
ATOM  35946  NZ  LYS C 199     200.494 131.144  14.361  1.00 98.40      CS3
ATOM  35947  C   LYS C 199     194.585 133.866  17.859  1.00 31.35      CS3
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ATOM  35948  O   LYS C 199     193.549 133.635  17.229  1.00 31.35      CS3
ATOM  35949  N   ALA C 200     194.867 135.049  18.408  1.00 41.78      CS3
ATOM  35950  CA  ALA C 200     193.955 136.190  18.326  1.00 41.78      CS3
ATOM  35951  CB  ALA C 200     193.447 136.554  19.711  1.00 77.27      CS3
ATOM  35952  C   ALA C 200     194.667 137.382  17.709  1.00 41.78      CS3
ATOM  35953  O   ALA C 200     195.801 137.691  18.077  1.00 41.78      CS3
ATOM  35954  N   TYR C 201     193.991 138.053  16.780  1.00 54.26      CS3
ATOM  35955  CA  TYR C 201     194.557 139.212  16.091  1.00 54.26      CS3
ATOM  35956  CB  TYR C 201     194.824 138.905  14.612  1.00 70.93      CS3
ATOM  35957  CG  TYR C 201     195.897 137.883  14.321  1.00 70.93      CS3
ATOM  35958  CD1 TYR C 201     195.730 136.548  14.678  1.00 70.93      CS3
ATOM  35959  CE1 TYR C 201     196.684 135.599  14.357  1.00 70.93      CS3
ATOM  35960  CD2 TYR C 201     197.058 138.244  13.638  1.00 70.93      CS3
ATOM  35961  CE2 TYR C 201     198.019 137.303  13.314  1.00 70.93      CS3
ATOM  35962  CZ  TYR C 201     197.824 135.979  13.674  1.00 70.93      CS3
ATOM  35963  OH  TYR C 201     198.754 135.024  13.328  1.00 70.93      CS3
ATOM  35964  C   TYR C 201     193.605 140.389  16.120  1.00 54.26      CS3
ATOM  35965  O   TYR C 201     192.486 140.286  15.618  1.00 54.26      CS3
ATOM  35966  N   ILE C 202     194.041 141.515  16.676  1.00 41.36      CS3
ATOM  35967  CA  ILE C 202     193.170 142.687  16.698  1.00 41.36      CS3
ATOM  35968  CB  ILE C 202     192.721 143.054  18.123  1.00 66.91      CS3
ATOM  35969  CG2 ILE C 202     191.592 144.069  18.043  1.00 66.91      CS3
ATOM  35970  CG1 ILE C 202     192.227 141.802  18.860  1.00 66.91      CS3
ATOM  35971  CD1 ILE C 202     191.905 142.016  20.326  1.00 66.91      CS3
ATOM  35972  C   ILE C 202     193.854 143.888  16.067  1.00 41.36      CS3
ATOM  35973  O   ILE C 202     194.889 144.355  16.532  1.00 41.36      CS3
ATOM  35974  N   PHE C 203     193.251 144.371  14.993  1.00 44.25      CS3
ATOM  35975  CA  PHE C 203     193.757 145.502  14.237  1.00 44.25      CS3
ATOM  35976  CB  PHE C 203     193.373 145.321  12.779  1.00 28.26      CS3
ATOM  35977  CG  PHE C 203     193.634 146.517  11.937  1.00 28.26      CS3
ATOM  35978  CD1 PHE C 203     194.894 147.089  11.896  1.00 28.26      CS3
ATOM  35979  CD2 PHE C 203     192.630 147.054  11.153  1.00 28.26      CS3
ATOM  35980  CE1 PHE C 203     195.148 148.186  11.075  1.00 28.26      CS3
ATOM  35981  CE2 PHE C 203     192.875 148.146  10.332  1.00 28.26      CS3
ATOM  35982  CZ  PHE C 203     194.134 148.715  10.291  1.00 28.26      CS3
ATOM  35983  C   PHE C 203     193.186 146.812  14.742  1.00 44.25      CS3
ATOM  35984  O   PHE C 203     191.975 146.918  14.943  1.00 44.25      CS3
ATOM  35985  N   LEU C 204     194.049 147.814  14.918  1.00 73.52      CS3
ATOM  35986  CA  LEU C 204     193.615 149.125  15.412  1.00 73.52      CS3
ATOM  35987  CB  LEU C 204     193.840 149.218  16.922  1.00 33.88      CS3
ATOM  35988  CG  LEU C 204     194.083 147.900  17.665  1.00 33.88      CS3
ATOM  35989  CD1 LEU C 204     194.802 148.172  18.985  1.00 33.88      CS3
ATOM  35990  CD2 LEU C 204     192.761 147.177  17.891  1.00 33.88      CS3
ATOM  35991  C   LEU C 204     194.342 150.298  14.754  1.00 73.52      CS3
ATOM  35992  O   LEU C 204     195.434 150.668  15.180  1.00 73.52      CS3
ATOM  35993  N   GLY C 205     193.739 150.888  13.727  1.00 89.66      CS3
ATOM  35994  CA  GLY C 205     194.355 152.024  13.055  1.00 89.66      CS3
ATOM  35995  C   GLY C 205     195.789 151.858  12.562  1.00 89.66      CS3
ATOM  35996  O   GLY C 205     196.532 150.977  13.005  1.00 89.66      CS3
ATOM  35997  N   GLU C 206     196.183 152.735  11.643  1.00104.24      CS3
ATOM  35998  CA  GLU C 206     197.520 152.696  11.064  1.00104.24      CS3
ATOM  35999  CB  GLU C 206     197.418 152.703   9.538  1.00125.06      CS3
ATOM  36000  CG  GLU C 206     196.363 151.761   8.979  1.00125.06      CS3
ATOM  36001  CD  GLU C 206     196.221 151.875   7.472  1.00125.06      CS3
ATOM  36002  OE1 GLU C 206     197.098 151.365   6.743  1.00125.06      CS3
ATOM  36003  OE2 GLU C 206     195.233 152.485   7.015  1.00125.06      CS3
ATOM  36004  C   GLU C 206     198.380 153.878  11.528  1.00104.24      CS3
ATOM  36005  O   GLU C 206     198.712 153.987  12.711  1.00104.24      CS3
ATOM  36006  N   VAL C 207     198.738 154.746  10.581  1.00118.16      CS3
ATOM  36007  CA  VAL C 207     199.562 155.937  10.826  1.00118.16      CS3
ATOM  36008  CB  VAL C 207     198.703 157.126  11.321  1.00114.32      CS3
ATOM  36009  CG1 VAL C 207     199.558 158.387  11.400  1.00114.32      CS3
ATOM  36010  CG2 VAL C 207     197.523 157.344  10.384  1.00114.32      CS3
ATOM  36011  C   VAL C 207     200.728 155.734  11.801  1.00118.16      CS3
ATOM  36012  O   VAL C 207     200.491 155.705  13.030  1.00118.16      CS3
ATOM  36013  OXT VAL C 207     201.874 155.604  11.316  1.00114.32      CS3
TER   36013       VAL C 207                                             CS3
ATOM  36014  C   GLY D   2     150.195  96.814  32.842  1.00 87.51      DS4
ATOM  36015  O   GLY D   2     150.897  97.017  33.829  1.00 87.51      DS4
ATOM  36016  N   GLY D   2     148.860  94.680  32.559  1.00 87.51      DS4
ATOM  36017  CA  GLY D   2     150.114  95.422  32.236  1.00 87.51      DS4
ATOM  36018  N   ARG D   3     149.478  97.768  32.248  1.00 99.14      DS4
ATOM  36019  CA  ARG D   3     149.452  99.161  32.701  1.00 99.14      DS4
ATOM  36020  CB  ARG D   3     148.359  99.375  33.761  1.00201.26      DS4
ATOM  36021  CG  ARG D   3     148.179  98.239  34.750  1.00201.26      DS4
ATOM  36022  CD  ARG D   3     147.055  97.291  34.330  1.00201.26      DS4
ATOM  36023  NE  ARG D   3     147.228  96.727  32.990  1.00201.26      DS4
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ATOM  36024  CZ  ARG D   3     146.886  97.338  31.856  1.00201.26      DS4
ATOM  36025  NH1 ARG D   3     146.342  98.548  31.880  1.00201.26      DS4
ATOM  36026  NH2 ARG D   3     147.092  96.735  30.693  1.00201.26      DS4
ATOM  36027  C   ARG D   3     150.783  99.692  33.231  1.00 99.14      DS4
ATOM  36028  O   ARG D   3     150.823 100.462  34.196  1.00 99.14      DS4
ATOM  36029  N   TYR D   4     151.871  99.291  32.586  1.00158.85      DS4
ATOM  36030  CA  TYR D   4     153.198  99.730  32.990  1.00158.85      DS4
ATOM  36031  CB  TYR D   4     153.284 101.256  32.949  1.00 72.72      DS4
ATOM  36032  CG  TYR D   4     154.588 101.793  33.481  1.00 72.72      DS4
ATOM  36033  CD1 TYR D   4     155.801 101.321  32.994  1.00 72.72      DS4
ATOM  36034  CE1 TYR D   4     157.000 101.794  33.482  1.00 72.72      DS4
ATOM  36035  CD2 TYR D   4     154.612 102.761  34.475  1.00 72.72      DS4
ATOM  36036  CE2 TYR D   4     155.810 103.242  34.970  1.00 72.72      DS4
ATOM  36037  CZ  TYR D   4     156.999 102.752  34.468  1.00 72.72      DS4
ATOM  36038  OH  TYR D   4     158.196 103.214  34.952  1.00 72.72      DS4
ATOM  36039  C   TYR D   4     153.549  99.244  34.388  1.00158.85      DS4
ATOM  36040  O   TYR D   4     154.291  98.274  34.554  1.00158.85      DS4
ATOM  36041  N   ILE D   5     153.012  99.927  35.393  1.00 82.61      DS4
ATOM  36042  CA  ILE D   5     153.279  99.565  36.776  1.00 82.61      DS4
ATOM  36043  CB  ILE D   5     152.687  98.189  37.107  1.00115.99      DS4
ATOM  36044  CG2 ILE D   5     153.148  97.737  38.478  1.00115.99      DS4
ATOM  36045  CG1 ILE D   5     151.159  98.280  37.047  1.00115.99      DS4
ATOM  36046  CD1 ILE D   5     150.437  96.981  37.315  1.00115.99      DS4
ATOM  36047  C   ILE D   5     154.780  99.575  37.044  1.00 82.61      DS4
ATOM  36048  O   ILE D   5     155.446  98.538  37.037  1.00 82.61      DS4
ATOM  36049  N   GLY D   6     155.286 100.784  37.262  1.00 51.48      DS4
ATOM  36050  CA  GLY D   6     156.688 101.023  37.535  1.00 51.48      DS4
ATOM  36051  C   GLY D   6     156.767 102.480  37.953  1.00 51.48      DS4
ATOM  36052  O   GLY D   6     155.727 103.111  38.159  1.00 51.48      DS4
ATOM  36053  N   PRO D   7     157.969 103.059  38.068  1.00 35.46      DS4
ATOM  36054  CD  PRO D   7     159.299 102.545  37.705  1.00 21.29      DS4
ATOM  36055  CA  PRO D   7     158.062 104.458  38.474  1.00 35.46      DS4
ATOM  36056  CB  PRO D   7     159.567 104.692  38.557  1.00 21.29      DS4
ATOM  36057  CG  PRO D   7     160.084 103.822  37.487  1.00 21.29      DS4
ATOM  36058  C   PRO D   7     157.383 105.421  37.517  1.00 35.46      DS4
ATOM  36059  O   PRO D   7     157.819 105.598  36.385  1.00 35.46      DS4
ATOM  36060  N   VAL D   8     156.306 106.040  37.976  1.00 33.47      DS4
ATOM  36061  CA  VAL D   8     155.612 107.003  37.152  1.00 33.47      DS4
ATOM  36062  CB  VAL D   8     154.201 107.263  37.680  1.00 62.18      DS4
ATOM  36063  CG1 VAL D   8     153.184 106.567  36.794  1.00 62.18      DS4
ATOM  36064  CG2 VAL D   8     154.089 106.745  39.104  1.00 62.18      DS4
ATOM  36065  C   VAL D   8     156.430 108.292  37.152  1.00 33.47      DS4
ATOM  36066  O   VAL D   8     156.765 108.806  36.092  1.00 33.47      DS4
ATOM  36067  N   CYS D   9     156.760 108.819  38.331  1.00143.93      DS4
ATOM  36068  CA  CYS D   9     157.565 110.037  38.381  1.00143.93      DS4
ATOM  36069  CB  CYS D   9     157.753 110.523  39.830  1.00 39.61      DS4
ATOM  36070  SG  CYS D   9     156.786 112.008  40.261  1.00 39.61      DS4
ATOM  36071  C   CYS D   9     158.914 109.724  37.729  1.00143.93      DS4
ATOM  36072  O   CYS D   9     159.901 109.422  38.404  1.00143.93      DS4
ATOM  36073  N   ARG D  10     158.911 109.772  36.398  1.00 52.83      DS4
ATOM  36074  CA  ARG D  10     160.075 109.515  35.545  1.00 52.83      DS4
ATOM  36075  CB  ARG D  10     160.574 108.059  35.676  1.00 33.94      DS4
ATOM  36076  CG  ARG D  10     160.055 107.109  34.600  1.00 33.94      DS4
ATOM  36077  CD  ARG D  10     160.394 105.653  34.880  1.00 33.94      DS4
ATOM  36078  NE  ARG D  10     161.822 105.346  34.869  1.00 33.94      DS4
ATOM  36079  CZ  ARG D  10     162.655 105.647  33.874  1.00 33.94      DS4
ATOM  36080  NH1 ARG D  10     162.209 106.289  32.802  1.00 33.94      DS4
ATOM  36081  NH2 ARG D  10     163.924 105.251  33.916  1.00 33.94      DS4
ATOM  36082  C   ARG D  10     159.570 109.765  34.126  1.00 52.83      DS4
ATOM  36083  O   ARG D  10     160.337 110.055  33.213  1.00 52.83      DS4
ATOM  36084  N   LEU D  11     158.261 109.618  33.959  1.00 64.74      DS4
ATOM  36085  CA  LEU D  11     157.603 109.862  32.687  1.00 64.74      DS4
ATOM  36086  CB  LEU D  11     156.408 108.932  32.513  1.00 20.61      DS4
ATOM  36087  CG  LEU D  11     156.670 107.515  33.045  1.00 20.61      DS4
ATOM  36088  CD1 LEU D  11     155.384 106.707  33.082  1.00 20.61      DS4
ATOM  36089  CD2 LEU D  11     157.712 106.838  32.188  1.00 20.61      DS4
ATOM  36090  C   LEU D  11     157.135 111.288  32.891  1.00 64.74      DS4
ATOM  36091  O   LEU D  11     157.069 112.074  31.947  1.00 64.74      DS4
ATOM  36092  N   CYS D  12     156.810 111.607  34.146  1.00 71.80      DS4
ATOM  36093  CA  CYS D  12     156.404 112.960  34.524  1.00 71.80      DS4
ATOM  36094  CB  CYS D  12     156.371 113.118  36.078  1.00 28.19      DS4
ATOM  36095  SG  CYS D  12     154.764 113.260  37.012  1.00 28.19      DS4
ATOM  36096  C   CYS D  12     157.602 113.734  33.945  1.00 71.80      DS4
ATOM  36097  O   CYS D  12     157.448 114.751  33.269  1.00 71.80      DS4
ATOM  36098  N   ARG D  13     158.793 113.185  34.188  1.00 35.98      DS4
ATOM  36099  CA  ARG D  13     160.051 113.768  33.739  1.00 35.98      DS4
ATOM  36100  CB  ARG D  13     161.223 113.150  34.507  1.00 63.72      DS4
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ATOM  36101  CG  ARG D  13     161.563 113.851  35.807  1.00 63.72      DS4
ATOM  36102  CD  ARG D  13     163.041 113.696  36.128  1.00 63.72      DS4
ATOM  36103  NE  ARG D  13     163.363 112.444  36.801  1.00 63.72      DS4
ATOM  36104  CZ  ARG D  13     164.588 111.928  36.856  1.00 63.72      DS4
ATOM  36105  NH1 ARG D  13     165.604 112.550  36.266  1.00 63.72      DS4
ATOM  36106  NH2 ARG D  13     164.806 110.806  37.526  1.00 63.72      DS4
ATOM  36107  C   ARG D  13     160.347 113.664  32.245  1.00 35.98      DS4
ATOM  36108  O   ARG D  13     160.536 114.679  31.581  1.00 35.98      DS4
ATOM  36109  N   ARG D  14     160.425 112.441  31.730  1.00 54.12      DS4
ATOM  36110  CA  ARG D  14     160.702 112.224  30.311  1.00 54.12      DS4
ATOM  36111  CB  ARG D  14     160.545 110.741  29.955  1.00 63.51      DS4
ATOM  36112  CG  ARG D  14     160.346 110.466  28.461  1.00 63.51      DS4
ATOM  36113  CD  ARG D  14     161.477 111.040  27.623  1.00 63.51      DS4
ATOM  36114  NE  ARG D  14     162.748 110.377  27.891  1.00 63.51      DS4
ATOM  36115  CZ  ARG D  14     163.915 110.804  27.431  1.00 63.51      DS4
ATOM  36116  NH1 ARG D  14     163.970 111.898  26.681  1.00 63.51      DS4
ATOM  36117  NH2 ARG D  14     165.023 110.136  27.714  1.00 63.51      DS4
ATOM  36118  C   ARG D  14     159.788 113.058  29.420  1.00 54.12      DS4
ATOM  36119  O   ARG D  14     160.234 113.638  28.428  1.00 54.12      DS4
ATOM  36120  N   GLU D  15     158.507 113.113  29.759  1.00 52.45      DS4
ATOM  36121  CA  GLU D  15     157.597 113.902  28.956  1.00 52.45      DS4
ATOM  36122  CB  GLU D  15     156.148 113.620  29.343  1.00 84.11      DS4
ATOM  36123  CG  GLU D  15     155.238 113.432  28.141  1.00 84.11      DS4
ATOM  36124  CD  GLU D  15     155.660 112.255  27.273  1.00 84.11      DS4
ATOM  36125  OE1 GLU D  15     155.605 111.103  27.750  1.00 84.11      DS4
ATOM  36126  OE2 GLU D  15     156.054 112.482  26.112  1.00 84.11      DS4
ATOM  36127  C   GLU D  15     157.949 115.360  29.209  1.00 52.45      DS4
ATOM  36128  O   GLU D  15     157.828 116.202  28.321  1.00 52.45      DS4
ATOM  36129  N   GLY D  16     158.401 115.648  30.426  1.00 93.90      DS4
ATOM  36130  CA  GLY D  16     158.789 117.005  30.771  1.00 93.90      DS4
ATOM  36131  C   GLY D  16     157.674 117.873  31.320  1.00 93.90      DS4
ATOM  36132  O   GLY D  16     157.931 118.883  31.970  1.00 93.90      DS4
ATOM  36133  N   VAL D  17     156.433 117.495  31.052  1.00 45.26      DS4
ATOM  36134  CA  VAL D  17     155.298 118.258  31.538  1.00 45.26      DS4
ATOM  36135  CB  VAL D  17     154.128 118.206  30.543  1.00 65.97      DS4
ATOM  36136  CG1 VAL D  17     152.912 118.879  31.136  1.00 65.97      DS4
ATOM  36137  CG2 VAL D  17     154.518 118.901  29.254  1.00 65.97      DS4
ATOM  36138  C   VAL D  17     154.839 117.708  32.878  1.00 45.26      DS4
ATOM  36139  O   VAL D  17     154.883 116.498  33.117  1.00 45.26      DS4
ATOM  36140  N   LYS D  18     154.404 118.604  33.760  1.00 81.09      DS4
ATOM  36141  CA  LYS D  18     153.932 118.181  35.068  1.00 81.09      DS4
ATOM  36142  CB  LYS D  18     153.440 119.377  35.892  1.00130.15      DS4
ATOM  36143  CG  LYS D  18     153.162 119.028  37.358  1.00130.15      DS4
ATOM  36144  CD  LYS D  18     152.693 120.232  38.166  1.00130.15      DS4
ATOM  36145  CE  LYS D  18     152.505 119.877  39.638  1.00130.15      DS4
ATOM  36146  NZ  LYS D  18     152.006 121.031  40.444  1.00130.15      DS4
ATOM  36147  C   LYS D  18     152.791 117.204  34.848  1.00 81.09      DS4
ATOM  36148  O   LYS D  18     151.709 117.580  34.397  1.00 81.09      DS4
ATOM  36149  N   LEU D  19     153.039 115.939  35.150  1.00121.08      DS4
ATOM  36150  CA  LEU D  19     152.007 114.945  34.972  1.00121.08      DS4
ATOM  36151  CB  LEU D  19     152.533 113.793  34.128  1.00 65.95      DS4
ATOM  36152  CG  LEU D  19     151.551 113.352  33.049  1.00 65.95      DS4
ATOM  36153  CD1 LEU D  19     152.114 112.118  32.361  1.00 65.95      DS4
ATOM  36154  CD2 LEU D  19     150.174 113.078  33.670  1.00 65.95      DS4
ATOM  36155  C   LEU D  19     151.514 114.447  36.325  1.00121.08      DS4
ATOM  36156  O   LEU D  19     152.298 114.230  37.259  1.00121.08      DS4
ATOM  36157  N   TYR D  20     150.201 114.279  36.421  1.00111.62      DS4
ATOM  36158  CA  TYR D  20     149.577 113.836  37.656  1.00111.62      DS4
ATOM  36159  CB  TYR D  20     148.279 114.617  37.872  1.00 71.22      DS4
ATOM  36160  CG  TYR D  20     148.462 116.125  37.915  1.00 71.22      DS4
ATOM  36161  CD1 TYR D  20     147.511 116.979  37.350  1.00 71.22      DS4
ATOM  36162  CE1 TYR D  20     147.682 118.365  37.366  1.00 71.22      DS4
ATOM  36163  CD2 TYR D  20     149.587 116.697  38.507  1.00 71.22      DS4
ATOM  36164  CE2 TYR D  20     149.768 118.078  38.533  1.00 71.22      DS4
ATOM  36165  CZ  TYR D  20     148.816 118.906  37.958  1.00 71.22      DS4
ATOM  36166  OH  TYR D  20     149.015 120.270  37.947  1.00 71.22      DS4
ATOM  36167  C   TYR D  20     149.298 112.339  37.632  1.00111.62      DS4
ATOM  36168  O   TYR D  20     148.479 111.863  36.851  1.00111.62      DS4
ATOM  36169  N   LEU D  21     149.988 111.607  38.501  1.00 70.35      DS4
ATOM  36170  CA  LEU D  21     149.845 110.156  38.597  1.00 70.35      DS4
ATOM  36171  CB  LEU D  21     150.891 109.479  37.706  1.00 68.04      DS4
ATOM  36172  CG  LEU D  21     151.013 109.978  36.261  1.00 68.04      DS4
ATOM  36173  CD1 LEU D  21     152.176 109.286  35.587  1.00 68.04      DS4
ATOM  36174  CD2 LEU D  21     149.737 109.706  35.492  1.00 68.04      DS4
ATOM  36175  C   LEU D  21     150.047 109.709  40.050  1.00 70.35      DS4
ATOM  36176  O   LEU D  21     150.479 108.582  40.310  1.00 70.35      DS4
ATOM  36177  N   LYS D  22     149.731 110.600  40.990  1.00 71.82      DS4
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ATOM  36178  CA  LYS D  22     149.898 110.322  42.413  1.00 71.82       DS4
ATOM  36179  CB  LYS D  22     151.351 110.567  42.825  1.00 58.24       DS4
ATOM  36180  CG  LYS D  22     152.385 109.617  42.249  1.00 58.24       DS4
ATOM  36181  CD  LYS D  22     153.769 110.283  42.236  1.00 58.24       DS4
ATOM  36182  CE  LYS D  22     154.910 109.264  42.306  1.00 58.24       DS4
ATOM  36183  NZ  LYS D  22     154.904 108.472  43.582  1.00 58.24       DS4
ATOM  36184  C   LYS D  22     149.004 111.184  43.306  1.00 71.82       DS4
ATOM  36185  O   LYS D  22     149.057 111.062  44.531  1.00 71.82       DS4
ATOM  36186  N   GLY D  23     148.195 112.054  42.712  1.00150.16       DS4
ATOM  36187  CA  GLY D  23     147.348 112.911  43.526  1.00150.16       DS4
ATOM  36188  C   GLY D  23     148.235 113.749  44.431  1.00150.16       DS4
ATOM  36189  O   GLY D  23     148.997 114.583  43.942  1.00150.16       DS4
ATOM  36190  N   GLU D  24     148.156 113.536  45.744  1.00 75.48       DS4
ATOM  36191  CA  GLU D  24     148.999 114.284  46.671  1.00 75.48       DS4
ATOM  36192  CB  GLU D  24     148.870 113.717  48.087  1.00201.25       DS4
ATOM  36193  CG  GLU D  24     149.669 114.481  49.136  1.00201.25       DS4
ATOM  36194  CD  GLU D  24     149.641 113.815  50.502  1.00201.25       DS4
ATOM  36195  OE1 GLU D  24     148.533 113.551  51.013  1.00201.25       DS4
ATOM  36196  OE2 GLU D  24     150.729 113.561  51.067  1.00201.25       DS4
ATOM  36197  C   GLU D  24     150.422 114.085  46.164  1.00 75.48       DS4
ATOM  36198  O   GLU D  24     150.651 113.223  45.327  1.00 75.48       DS4
ATOM  36199  N   ARG D  25     151.375 114.862  46.662  1.00113.40       DS4
ATOM  36200  CA  ARG D  25     152.770 114.741  46.228  1.00113.40       DS4
ATOM  36201  CB  ARG D  25     153.237 113.272  46.239  1.00 60.13       DS4
ATOM  36202  CG  ARG D  25     154.741 113.080  45.975  1.00 60.13       DS4
ATOM  36203  CD  ARG D  25     155.231 111.683  46.392  1.00 60.13       DS4
ATOM  36204  NE  ARG D  25     156.427 111.761  47.234  1.00 60.13       DS4
ATOM  36205  CZ  ARG D  25     157.681 111.638  46.804  1.00 60.13       DS4
ATOM  36206  NH1 ARG D  25     157.939 111.416  45.523  1.00 60.13       DS4
ATOM  36207  NH2 ARG D  25     158.683 111.758  47.661  1.00 60.13       DS4
ATOM  36208  C   ARG D  25     152.942 115.338  44.837  1.00113.40       DS4
ATOM  36209  O   ARG D  25     153.669 116.316  44.677  1.00113.40       DS4
ATOM  36210  N   CYS D  26     152.288 114.767  43.826  1.00113.01       DS4
ATOM  36211  CA  CYS D  26     152.395 115.337  42.485  1.00113.01       DS4
ATOM  36212  CB  CYS D  26     151.637 114.487  41.436  1.00 21.11       DS4
ATOM  36213  SG  CYS D  26     152.684 113.468  40.317  1.00 21.11       DS4
ATOM  36214  C   CYS D  26     151.774 116.731  42.629  1.00113.01       DS4
ATOM  36215  O   CYS D  26     151.610 117.462  41.654  1.00113.01       DS4
ATOM  36216  N   TYR D  27     151.438 117.075  43.874  1.00 81.75       DS4
ATOM  36217  CA  TYR D  27     150.863 118.371  44.236  1.00 81.75       DS4
ATOM  36218  CB  TYR D  27     149.492 118.193  44.897  1.00 67.94       DS4
ATOM  36219  CG  TYR D  27     148.384 118.177  43.887  1.00 67.94       DS4
ATOM  36220  CD1 TYR D  27     148.050 117.009  43.210  1.00 67.94       DS4
ATOM  36221  CE1 TYR D  27     147.127 117.018  42.173  1.00 67.94       DS4
ATOM  36222  CD2 TYR D  27     147.757 119.360  43.511  1.00 67.94       DS4
ATOM  36223  CE2 TYR D  27     146.836 119.387  42.474  1.00 67.94       DS4
ATOM  36224  CZ  TYR D  27     146.527 118.212  41.806  1.00 67.94       DS4
ATOM  36225  OH  TYR D  27     145.641 118.243  40.753  1.00 67.94       DS4
ATOM  36226  C   TYR D  27     151.774 119.149  45.179  1.00 81.75       DS4
ATOM  36227  O   TYR D  27     151.824 120.377  45.136  1.00 81.75       DS4
ATOM  36228  N   SER D  28     152.489 118.417  46.028  1.00 73.46       DS4
ATOM  36229  CA  SER D  28     153.406 119.003  46.999  1.00 73.46       DS4
ATOM  36230  CB  SER D  28     153.060 118.510  48.406  1.00180.12       DS4
ATOM  36231  OG  SER D  28     153.173 117.098  48.496  1.00180.12       DS4
ATOM  36232  C   SER D  28     154.859 118.651  46.677  1.00 73.46       DS4
ATOM  36233  O   SER D  28     155.228 117.478  46.637  1.00 73.46       DS4
ATOM  36234  N   PRO D  29     155.707 119.675  46.490  1.00 83.40       DS4
ATOM  36235  CD  PRO D  29     155.418 120.986  47.098  1.00 48.18       DS4
ATOM  36236  CA  PRO D  29     157.134 119.590  46.168  1.00 83.40       DS4
ATOM  36237  CB  PRO D  29     157.755 120.467  47.238  1.00 48.18       DS4
ATOM  36238  CG  PRO D  29     156.809 121.618  47.226  1.00 48.18       DS4
ATOM  36239  C   PRO D  29     157.776 118.206  46.088  1.00 83.40       DS4
ATOM  36240  O   PRO D  29     158.648 117.867  46.895  1.00 83.40       DS4
ATOM  36241  N   LYS D  30     157.356 117.433  45.085  1.00201.26       DS4
ATOM  36242  CA  LYS D  30     157.878 116.090  44.865  1.00201.26       DS4
ATOM  36243  CB  LYS D  30     157.501 115.176  46.044  1.00 83.96       DS4
ATOM  36244  CG  LYS D  30     158.316 115.383  47.324  1.00 83.96       DS4
ATOM  36245  CD  LYS D  30     157.791 114.527  48.476  1.00 83.96       DS4
ATOM  36246  CE  LYS D  30     158.485 114.843  49.803  1.00 83.96       DS4
ATOM  36247  NZ  LYS D  30     157.919 114.056  50.946  1.00 83.96       DS4
ATOM  36248  C   LYS D  30     157.479 115.405  43.541  1.00201.26       DS4
ATOM  36249  O   LYS D  30     157.957 114.302  43.278  1.00201.26       DS4
ATOM  36250  N   CYS D  31     156.632 116.019  42.703  1.00 59.66       DS4
ATOM  36251  CA  CYS D  31     156.260 115.364  41.426  1.00 59.66       DS4
ATOM  36252  CB  CYS D  31     155.226 116.159  40.619  1.00 17.62       DS4
ATOM  36253  SG  CYS D  31     154.491 115.267  39.184  1.00 17.62       DS4
ATOM  36254  C   CYS D  31     157.549 115.353  40.659  1.00 59.66       DS4
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ATOM  36255  O   CYS D  31     157.601 114.890  39.515  1.00 59.66      DS4
ATOM  36256  N   ALA D  32     158.562 115.889  41.357  1.00 91.97      DS4
ATOM  36257  CA  ALA D  32     159.961 116.056  40.960  1.00 91.97      DS4
ATOM  36258  CB  ALA D  32     160.590 114.732  40.536  1.00  9.67      DS4
ATOM  36259  C   ALA D  32     160.166 117.091  39.885  1.00 91.97      DS4
ATOM  36260  O   ALA D  32     161.296 117.504  39.628  1.00 91.97      DS4
ATOM  36261  N   MET D  33     159.087 117.519  39.246  1.00135.86      DS4
ATOM  36262  CA  MET D  33     159.248 118.538  38.234  1.00135.86      DS4
ATOM  36263  CB  MET D  33     157.945 118.774  37.479  1.00 85.80      DS4
ATOM  36264  CG  MET D  33     157.663 117.677  36.461  1.00 85.80      DS4
ATOM  36265  SD  MET D  33     159.159 117.182  35.549  1.00 85.80      DS4
ATOM  36266  CE  MET D  33     159.229 118.438  34.293  1.00 85.80      DS4
ATOM  36267  C   MET D  33     159.707 119.772  38.987  1.00135.86      DS4
ATOM  36268  O   MET D  33     159.755 120.883  38.454  1.00135.86      DS4
ATOM  36269  N   GLU D  34     160.029 119.538  40.256  1.00 78.69      DS4
ATOM  36270  CA  GLU D  34     160.560 120.546  41.152  1.00 78.69      DS4
ATOM  36271  CB  GLU D  34     159.924 120.433  42.538  1.00100.16      DS4
ATOM  36272  CG  GLU D  34     158.922 121.527  42.841  1.00100.16      DS4
ATOM  36273  CD  GLU D  34     157.800 121.564  41.836  1.00100.16      DS4
ATOM  36274  OE1 GLU D  34     157.102 120.540  41.704  1.00100.16      DS4
ATOM  36275  OE2 GLU D  34     157.616 122.609  41.178  1.00100.16      DS4
ATOM  36276  C   GLU D  34     162.047 120.208  41.226  1.00 78.69      DS4
ATOM  36277  O   GLU D  34     162.434 119.134  41.709  1.00 78.69      DS4
ATOM  36278  N   ARG D  35     162.873 121.120  40.724  1.00141.62      DS4
ATOM  36279  CA  ARG D  35     164.314 120.918  40.707  1.00141.62      DS4
ATOM  36280  CB  ARG D  35     164.916 121.231  42.081  1.00201.26      DS4
ATOM  36281  CG  ARG D  35     165.175 122.720  42.334  1.00201.26      DS4
ATOM  36282  CD  ARG D  35     164.093 123.382  43.181  1.00201.26      DS4
ATOM  36283  NE  ARG D  35     162.819 123.532  42.482  1.00201.26      DS4
ATOM  36284  CZ  ARG D  35     161.733 124.070  43.028  1.00201.26      DS4
ATOM  36285  NH1 ARG D  35     161.766 124.510  44.280  1.00201.26      DS4
ATOM  36286  NH2 ARG D  35     160.613 124.172  42.324  1.00201.26      DS4
ATOM  36287  C   ARG D  35     164.682 119.497  40.272  1.00141.62      DS4
ATOM  36288  O   ARG D  35     165.081 118.657  41.085  1.00141.62      DS4
ATOM  36289  N   ARG D  36     164.525 119.262  38.971  1.00 82.77      DS4
ATOM  36290  CA  ARG D  36     164.817 118.000  38.300  1.00 82.77      DS4
ATOM  36291  CB  ARG D  36     164.651 116.832  39.270  1.00 63.80      DS4
ATOM  36292  CG  ARG D  36     165.524 115.664  38.933  1.00 63.80      DS4
ATOM  36293  CD  ARG D  36     165.632 114.689  40.078  1.00 63.80      DS4
ATOM  36294  NE  ARG D  36     166.926 114.022  40.014  1.00 63.80      DS4
ATOM  36295  CZ  ARG D  36     167.118 112.727  40.228  1.00 63.80      DS4
ATOM  36296  NH1 ARG D  36     166.091 111.942  40.529  1.00 63.80      DS4
ATOM  36297  NH2 ARG D  36     168.336 112.216  40.116  1.00 63.80      DS4
ATOM  36298  C   ARG D  36     163.897 117.801  37.086  1.00 82.77      DS4
ATOM  36299  O   ARG D  36     163.743 116.686  36.594  1.00 82.77      DS4
ATOM  36300  N   PRO D  37     163.296 118.890  36.572  1.00 63.97      DS4
ATOM  36301  CD  PRO D  37     163.511 120.295  36.947  1.00 88.08      DS4
ATOM  36302  CA  PRO D  37     162.390 118.826  35.423  1.00 63.97      DS4
ATOM  36303  CB  PRO D  37     162.030 120.291  35.181  1.00 88.08      DS4
ATOM  36304  CG  PRO D  37     162.234 120.925  36.507  1.00 88.08      DS4
ATOM  36305  C   PRO D  37     162.984 118.197  34.172  1.00 63.97      DS4
ATOM  36306  O   PRO D  37     162.334 118.146  33.125  1.00 63.97      DS4
ATOM  36307  N   TYR D  38     164.222 117.741  34.262  1.00 87.16      DS4
ATOM  36308  CA  TYR D  38     164.846 117.133  33.106  1.00 87.16      DS4
ATOM  36309  CB  TYR D  38     166.350 117.345  33.148  1.00 73.54      DS4
ATOM  36310  CG  TYR D  38     166.975 117.086  34.493  1.00 73.54      DS4
ATOM  36311  CD1 TYR D  38     167.059 115.799  35.009  1.00 73.54      DS4
ATOM  36312  CE1 TYR D  38     167.680 115.558  36.225  1.00 73.54      DS4
ATOM  36313  CD2 TYR D  38     167.521 118.126  35.233  1.00 73.54      DS4
ATOM  36314  CE2 TYR D  38     168.139 117.894  36.445  1.00 73.54      DS4
ATOM  36315  CZ  TYR D  38     168.219 116.610  36.934  1.00 73.54      DS4
ATOM  36316  OH  TYR D  38     168.856 116.380  38.126  1.00 73.54      DS4
ATOM  36317  C   TYR D  38     164.529 115.658  33.056  1.00 87.16      DS4
ATOM  36318  O   TYR D  38     164.185 115.053  34.067  1.00 87.16      DS4
ATOM  36319  N   PRO D  39     164.630 115.058  31.867  1.00 65.58      DS4
ATOM  36320  CD  PRO D  39     165.065 115.652  30.594  1.00 83.09      DS4
ATOM  36321  CA  PRO D  39     164.345 113.633  31.711  1.00 65.58      DS4
ATOM  36322  CB  PRO D  39     164.520 113.413  30.213  1.00 83.09      DS4
ATOM  36323  CG  PRO D  39     165.540 114.447  29.841  1.00 83.09      DS4
ATOM  36324  C   PRO D  39     165.275 112.759  32.549  1.00 65.58      DS4
ATOM  36325  O   PRO D  39     166.313 113.212  33.038  1.00 65.58      DS4
ATOM  36326  N   PRO D  40     164.902 111.487  32.727  1.00 52.71      DS4
ATOM  36327  CD  PRO D  40     163.637 110.884  32.268  1.00 47.40      DS4
ATOM  36328  CA  PRO D  40     165.688 110.532  33.509  1.00 52.71      DS4
ATOM  36329  CB  PRO D  40     164.663 109.458  33.853  1.00 47.40      DS4
ATOM  36330  CG  PRO D  40     163.819 109.418  32.622  1.00 47.40      DS4
ATOM  36331  C   PRO D  40     166.865 109.973  32.727  1.00 52.71      DS4
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ATOM  36332  O   PRO D  40     167.000 110.229  31.530  1.00 52.71      DS4
ATOM  36333  N   GLY D  41     167.720 109.217  33.408  1.00 50.22      DS4
ATOM  36334  CA  GLY D  41     168.861 108.623  32.739  1.00 50.22      DS4
ATOM  36335  C   GLY D  41     170.190 109.347  32.861  1.00 50.22      DS4
ATOM  36336  O   GLY D  41     170.267 110.532  33.185  1.00 50.22      DS4
ATOM  36337  N   GLN D  42     171.246 108.598  32.576  1.00 41.42      DS4
ATOM  36338  CA  GLN D  42     172.609 109.086  32.633  1.00 41.42      DS4
ATOM  36339  CB  GLN D  42     173.551 108.025  32.081  1.00 77.73      DS4
ATOM  36340  CG  GLN D  42     175.017 108.353  32.220  1.00 77.73      DS4
ATOM  36341  CD  GLN D  42     175.890 107.374  31.463  1.00 77.73      DS4
ATOM  36342  OE1 GLN D  42     175.927 107.391  30.237  1.00 77.73      DS4
ATOM  36343  NE2 GLN D  42     176.588 106.505  32.189  1.00 77.73      DS4
ATOM  36344  C   GLN D  42     172.802 110.358  31.843  1.00 41.42      DS4
ATOM  36345  O   GLN D  42     173.818 111.022  31.997  1.00 41.42      DS4
ATOM  36346  N   HIS D  43     171.827 110.703  31.006  1.00 63.94      DS4
ATOM  36347  CA  HIS D  43     171.933 111.886  30.156  1.00 63.94      DS4
ATOM  36348  CB  HIS D  43     171.827 111.464  28.697  1.00 79.46      DS4
ATOM  36349  CG  HIS D  43     172.919 110.549  28.251  1.00 79.46      DS4
ATOM  36350  CD2 HIS D  43     172.906 109.232  27.939  1.00 79.46      DS4
ATOM  36351  ND1 HIS D  43     174.217 110.974  28.072  1.00 79.46      DS4
ATOM  36352  CE1 HIS D  43     174.958 109.958  27.667  1.00 79.46      DS4
ATOM  36353  NE2 HIS D  43     174.186 108.889  27.578  1.00 79.46      DS4
ATOM  36354  C   HIS D  43     170.928 113.005  30.395  1.00 63.94      DS4
ATOM  36355  O   HIS D  43     170.972 114.026  29.716  1.00 63.94      DS4
ATOM  36356  N   GLY D  44     170.020 112.823  31.341  1.00 57.72      DS4
ATOM  36357  CA  GLY D  44     169.023 113.849  31.600  1.00 57.72      DS4
ATOM  36358  C   GLY D  44     169.477 115.301  31.522  1.00 57.72      DS4
ATOM  36359  O   GLY D  44     168.809 116.133  30.904  1.00 57.72      DS4
ATOM  36360  N   GLN D  45     170.617 115.610  32.135  1.00 68.49      DS4
ATOM  36361  CA  GLN D  45     171.131 116.976  32.167  1.00 68.49      DS4
ATOM  36362  CB  GLN D  45     171.824 117.240  33.506  1.00 97.99      DS4
ATOM  36363  CG  GLN D  45     170.909 117.141  34.719  1.00 97.99      DS4
ATOM  36364  CD  GLN D  45     171.675 116.913  36.011  1.00 97.99      DS4
ATOM  36365  OE1 GLN D  45     172.543 117.704  36.382  1.00 97.99      DS4
ATOM  36366  NE2 GLN D  45     171.356 115.824  36.700  1.00 97.99      DS4
ATOM  36367  C   GLN D  45     172.081 117.337  31.038  1.00 68.49      DS4
ATOM  36368  O   GLN D  45     173.029 118.089  31.246  1.00 68.49      DS4
ATOM  36369  N   LYS D  46     171.838 116.793  29.851  1.00 72.29      DS4
ATOM  36370  CA  LYS D  46     172.663 117.100  28.685  1.00 72.29      DS4
ATOM  36371  CB  LYS D  46     173.244 115.828  28.060  1.00150.05      DS4
ATOM  36372  CG  LYS D  46     174.491 115.294  28.755  1.00150.05      DS4
ATOM  36373  CD  LYS D  46     175.142 114.177  27.943  1.00150.05      DS4
ATOM  36374  CE  LYS D  46     176.434 113.693  28.592  1.00150.05      DS4
ATOM  36375  NZ  LYS D  46     177.088 112.601  27.815  1.00150.05      DS4
ATOM  36376  C   LYS D  46     171.767 117.806  27.683  1.00 72.29      DS4
ATOM  36377  O   LYS D  46     170.564 117.557  27.651  1.00 72.29      DS4
ATOM  36378  N   ARG D  47     172.350 118.691  26.879  1.00 89.30      DS4
ATOM  36379  CA  ARG D  47     171.603 119.454  25.877  1.00 89.30      DS4
ATOM  36380  CB  ARG D  47     172.570 120.234  24.987  1.00190.47      DS4
ATOM  36381  CG  ARG D  47     171.909 120.865  23.777  1.00190.47      DS4
ATOM  36382  CD  ARG D  47     172.941 121.412  22.817  1.00190.47      DS4
ATOM  36383  NE  ARG D  47     172.339 121.782  21.543  1.00190.47      DS4
ATOM  36384  CZ  ARG D  47     173.024 122.235  20.502  1.00190.47      DS4
ATOM  36385  NH1 ARG D  47     174.340 122.375  20.585  1.00190.47      DS4
ATOM  36386  NH2 ARG D  47     172.394 122.543  19.377  1.00190.47      DS4
ATOM  36387  C   ARG D  47     170.712 118.586  24.999  1.00 89.30      DS4
ATOM  36388  O   ARG D  47     171.102 117.495  24.594  1.00 89.30      DS4
ATOM  36389  N   ALA D  48     169.516 119.079  24.696  1.00 94.13      DS4
ATOM  36390  CA  ALA D  48     168.583 118.330  23.860  1.00 94.13      DS4
ATOM  36391  CB  ALA D  48     167.157 118.523  24.360  1.00158.69      DS4
ATOM  36392  C   ALA D  48     168.698 118.793  22.417  1.00 94.13      DS4
ATOM  36393  O   ALA D  48     168.852 119.987  22.153  1.00 94.13      DS4
ATOM  36394  N   ARG D  49     168.626 117.848  21.484  1.00 58.35      DS4
ATOM  36395  CA  ARG D  49     168.726 118.189  20.070  1.00 58.35      DS4
ATOM  36396  CB  ARG D  49     169.632 117.192  19.339  1.00201.26      DS4
ATOM  36397  CG  ARG D  49     171.121 117.394  19.602  1.00201.26      DS4
ATOM  36398  CD  ARG D  49     171.969 116.589  18.622  1.00201.26      DS4
ATOM  36399  NE  ARG D  49     173.395 116.899  18.725  1.00201.26      DS4
ATOM  36400  CZ  ARG D  49     174.331 116.408  17.915  1.00201.26      DS4
ATOM  36401  NH1 ARG D  49     173.999 115.579  16.933  1.00201.26      DS4
ATOM  36402  NH2 ARG D  49     175.603 116.746  18.082  1.00201.26      DS4
ATOM  36403  C   ARG D  49     167.368 118.266  19.375  1.00 58.35      DS4
ATOM  36404  O   ARG D  49     166.438 117.519  19.705  1.00 58.35      DS4
ATOM  36405  N   ARG D  50     167.279 119.187  18.417  1.00 73.43      DS4
ATOM  36406  CA  ARG D  50     166.071 119.421  17.634  1.00 73.43      DS4
ATOM  36407  CB  ARG D  50     166.427 120.105  16.310  1.00152.96      DS4
ATOM  36408  CG  ARG D  50     165.242 120.298  15.375  1.00152.96      DS4
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ATOM  36409  CD  ARG D  50     165.677 120.702  13.971  1.00152.96       DS4
ATOM  36410  NE  ARG D  50     164.528 120.859  13.080  1.00152.96       DS4
ATOM  36411  CZ  ARG D  50     164.610 121.136  11.781  1.00152.96       DS4
ATOM  36412  NH1 ARG D  50     165.794 121.289  11.204  1.00152.96       DS4
ATOM  36413  NH2 ARG D  50     163.503 121.262  11.058  1.00152.96       DS4
ATOM  36414  C   ARG D  50     165.359 118.110  17.346  1.00 73.43       DS4
ATOM  36415  O   ARG D  50     165.769 117.357  16.469  1.00 73.43       DS4
ATOM  36416  N   PRO D  51     164.282 117.817  18.085  1.00 47.77       DS4
ATOM  36417  CD  PRO D  51     163.753 118.515  19.267  1.00 75.64       DS4
ATOM  36418  CA  PRO D  51     163.553 116.572  17.858  1.00 47.77       DS4
ATOM  36419  CB  PRO D  51     162.431 116.648  18.888  1.00 75.64       DS4
ATOM  36420  CG  PRO D  51     163.076 117.392  20.012  1.00 75.64       DS4
ATOM  36421  C   PRO D  51     163.029 116.447  16.431  1.00 47.77       DS4
ATOM  36422  O   PRO D  51     162.767 117.452  15.767  1.00 47.77       DS4
ATOM  36423  N   SER D  52     162.888 115.207  15.965  1.00 45.41       DS4
ATOM  36424  CA  SER D  52     162.380 114.928  14.624  1.00 45.41       DS4
ATOM  36425  CB  SER D  52     162.831 113.538  14.175  1.00 65.62       DS4
ATOM  36426  OG  SER D  52     162.389 112.539  15.079  1.00 65.62       DS4
ATOM  36427  C   SER D  52     160.851 114.991  14.596  1.00 45.41       DS4
ATOM  36428  O   SER D  52     160.186 114.627  15.574  1.00 45.41       DS4
ATOM  36429  N   ASP D  53     160.297 115.460  13.482  1.00 47.57       DS4
ATOM  36430  CA  ASP D  53     158.847 115.545  13.342  1.00 47.57       DS4
ATOM  36431  CB  ASP D  53     158.454 115.563  11.864  1.00 74.57       DS4
ATOM  36432  CG  ASP D  53     158.413 116.956  11.284  1.00 74.57       DS4
ATOM  36433  OD1 ASP D  53     159.295 117.770  11.630  1.00 74.57       DS4
ATOM  36434  OD2 ASP D  53     157.503 117.230  10.470  1.00 74.57       DS4
ATOM  36435  C   ASP D  53     158.235 114.320  14.007  1.00 47.57       DS4
ATOM  36436  O   ASP D  53     157.160 114.385  14.600  1.00 47.57       DS4
ATOM  36437  N   TYR D  54     158.934 113.196  13.900  1.00 40.40       DS4
ATOM  36438  CA  TYR D  54     158.450 111.967  14.489  1.00 40.40       DS4
ATOM  36439  CB  TYR D  54     159.309 110.791  14.042  1.00 30.19       DS4
ATOM  36440  CG  TYR D  54     158.786 109.464  14.529  1.00 30.19       DS4
ATOM  36441  CD1 TYR D  54     157.510 109.060  14.202  1.00 30.19       DS4
ATOM  36442  CE1 TYR D  54     156.994 107.864  14.669  1.00 30.19       DS4
ATOM  36443  CD2 TYR D  54     159.556 108.629  15.341  1.00 30.19       DS4
ATOM  36444  CE2 TYR D  54     159.050 107.421  15.818  1.00 30.19       DS4
ATOM  36445  CZ  TYR D  54     157.755 107.043  15.477  1.00 30.19       DS4
ATOM  36446  OH  TYR D  54     157.176 105.869  15.940  1.00 30.19       DS4
ATOM  36447  C   TYR D  54     158.490 112.097  16.002  1.00 40.40       DS4
ATOM  36448  O   TYR D  54     157.449 112.027  16.655  1.00 40.40       DS4
ATOM  36449  N   ALA D  55     159.697 112.289  16.544  1.00 22.95       DS4
ATOM  36450  CA  ALA D  55     159.911 112.437  17.985  1.00 22.95       DS4
ATOM  36451  CB  ALA D  55     161.191 113.200  18.240  1.00 92.69       DS4
ATOM  36452  C   ALA D  55     158.734 113.193  18.563  1.00 22.95       DS4
ATOM  36453  O   ALA D  55     158.082 112.745  19.513  1.00 22.95       DS4
ATOM  36454  N   VAL D  56     158.460 114.346  17.967  1.00 33.58       DS4
ATOM  36455  CA  VAL D  56     157.339 115.152  18.399  1.00 33.58       DS4
ATOM  36456  CB  VAL D  56     157.141 116.342  17.468  1.00 48.59       DS4
ATOM  36457  CG1 VAL D  56     155.818 117.004  17.747  1.00 48.59       DS4
ATOM  36458  CG2 VAL D  56     158.270 117.324  17.668  1.00 48.59       DS4
ATOM  36459  C   VAL D  56     156.082 114.289  18.410  1.00 33.58       DS4
ATOM  36460  O   VAL D  56     155.590 113.933  19.476  1.00 33.58       DS4
ATOM  36461  N   ARG D  57     155.570 113.946  17.232  1.00 23.08       DS4
ATOM  36462  CA  ARG D  57     154.375 113.107  17.140  1.00 23.08       DS4
ATOM  36463  CB  ARG D  57     154.263 112.470  15.749  1.00 76.16       DS4
ATOM  36464  CG  ARG D  57     153.465 113.258  14.727  1.00 76.16       DS4
ATOM  36465  CD  ARG D  57     154.114 114.580  14.421  1.00 76.16       DS4
ATOM  36466  NE  ARG D  57     153.461 115.259  13.310  1.00 76.16       DS4
ATOM  36467  CZ  ARG D  57     153.761 116.492  12.913  1.00 76.16       DS4
ATOM  36468  NH1 ARG D  57     154.706 117.189  13.541  1.00 76.16       DS4
ATOM  36469  NH2 ARG D  57     153.122 117.028  11.882  1.00 76.16       DS4
ATOM  36470  C   ARG D  57     154.435 111.990  18.183  1.00 23.08       DS4
ATOM  36471  O   ARG D  57     153.487 111.758  18.939  1.00 23.08       DS4
ATOM  36472  N   LEU D  58     155.564 111.301  18.223  1.00 39.64       DS4
ATOM  36473  CA  LEU D  58     155.720 110.214  19.158  1.00 39.64       DS4
ATOM  36474  CB  LEU D  58     157.120 109.611  19.032  1.00 38.39       DS4
ATOM  36475  CG  LEU D  58     157.321 108.250  19.706  1.00 38.39       DS4
ATOM  36476  CD1 LEU D  58     157.486 108.427  21.201  1.00 38.39       DS4
ATOM  36477  CD2 LEU D  58     156.125 107.346  19.391  1.00 38.39       DS4
ATOM  36478  C   LEU D  58     155.459 110.686  20.584  1.00 39.64       DS4
ATOM  36479  O   LEU D  58     154.493 110.255  21.215  1.00 39.64       DS4
ATOM  36480  N   ARG D  59     156.302 111.581  21.088  1.00 27.19       DS4
ATOM  36481  CA  ARG D  59     156.131 112.070  22.451  1.00 27.19       DS4
ATOM  36482  CB  ARG D  59     157.102 113.215  22.731  1.00 43.84       DS4
ATOM  36483  CG  ARG D  59     158.556 112.907  22.449  1.00 43.84       DS4
ATOM  36484  CD  ARG D  59     158.989 111.566  22.995  1.00 43.84       DS4
ATOM  36485  NE  ARG D  59     158.505 111.317  24.344  1.00 43.84       DS4
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ATOM  36486  CZ  ARG D  59     158.692 110.171  24.992  1.00 43.84       DS4
ATOM  36487  NH1 ARG D  59     159.355 109.175  24.416  1.00 43.84       DS4
ATOM  36488  NH2 ARG D  59     158.202 110.012  26.213  1.00 43.84       DS4
ATOM  36489  C   ARG D  59     154.701 112.528  22.766  1.00 27.19       DS4
ATOM  36490  O   ARG D  59     154.102 112.075  23.738  1.00 27.19       DS4
ATOM  36491  N   GLU D  60     154.155 113.423  21.949  1.00 26.47       DS4
ATOM  36492  CA  GLU D  60     152.809 113.915  22.189  1.00 26.47       DS4
ATOM  36493  CB  GLU D  60     152.271 114.652  20.967  1.00 70.06       DS4
ATOM  36494  CG  GLU D  60     151.103 115.559  21.309  1.00 70.06       DS4
ATOM  36495  CD  GLU D  60     151.512 116.699  22.233  1.00 70.06       DS4
ATOM  36496  OE1 GLU D  60     150.617 117.374  22.781  1.00 70.06       DS4
ATOM  36497  OE2 GLU D  60     152.731 116.928  22.406  1.00 70.06       DS4
ATOM  36498  C   GLU D  60     151.860 112.779  22.551  1.00 26.47       DS4
ATOM  36499  O   GLU D  60     151.212 112.821  23.596  1.00 26.47       DS4
ATOM  36500  N   LYS D  61     151.777 111.763  21.694  1.00 37.66       DS4
ATOM  36501  CA  LYS D  61     150.901 110.627  21.961  1.00 37.66       DS4
ATOM  36502  CB  LYS D  61     151.013 109.585  20.856  1.00 41.41       DS4
ATOM  36503  CG  LYS D  61     149.917 108.530  20.913  1.00 41.41       DS4
ATOM  36504  CD  LYS D  61     150.458 107.143  20.617  1.00 41.41       DS4
ATOM  36505  CE  LYS D  61     151.514 106.729  21.640  1.00 41.41       DS4
ATOM  36506  NZ  LYS D  61     151.961 105.315  21.459  1.00 41.41       DS4
ATOM  36507  C   LYS D  61     151.282 109.986  23.293  1.00 37.66       DS4
ATOM  36508  O   LYS D  61     150.460 109.917  24.207  1.00 37.66       DS4
ATOM  36509  N   GLN D  62     152.523 109.511  23.392  1.00 49.45       DS4
ATOM  36510  CA  GLN D  62     153.024 108.895  24.621  1.00 49.45       DS4
ATOM  36511  CB  GLN D  62     154.551 108.992  24.684  1.00 59.18       DS4
ATOM  36512  CG  GLN D  62     155.259 108.061  23.731  1.00 59.18       DS4
ATOM  36513  CD  GLN D  62     155.002 106.603  24.057  1.00 59.18       DS4
ATOM  36514  OE1 GLN D  62     155.503 106.077  25.051  1.00 59.18       DS4
ATOM  36515  NE2 GLN D  62     154.210 105.944  23.223  1.00 59.18       DS4
ATOM  36516  C   GLN D  62     152.430 109.617  25.821  1.00 49.45       DS4
ATOM  36517  O   GLN D  62     151.827 109.009  26.697  1.00 49.45       DS4
ATOM  36518  N   LYS D  63     152.618 110.928  25.848  1.00 32.36       DS4
ATOM  36519  CA  LYS D  63     152.088 111.763  26.911  1.00 32.36       DS4
ATOM  36520  CB  LYS D  63     152.249 113.223  26.505  1.00 50.72       DS4
ATOM  36521  CG  LYS D  63     151.731 114.229  27.494  1.00 50.72       DS4
ATOM  36522  CD  LYS D  63     151.693 115.598  26.847  1.00 50.72       DS4
ATOM  36523  CE  LYS D  63     153.038 115.932  26.214  1.00 50.72       DS4
ATOM  36524  NZ  LYS D  63     153.011 117.219  25.451  1.00 50.72       DS4
ATOM  36525  C   LYS D  63     150.605 111.433  27.136  1.00 32.36       DS4
ATOM  36526  O   LYS D  63     150.258 110.685  28.053  1.00 32.36       DS4
ATOM  36527  N   LEU D  64     149.744 111.980  26.278  1.00 19.37       DS4
ATOM  36528  CA  LEU D  64     148.300 111.775  26.366  1.00 19.37       DS4
ATOM  36529  CB  LEU D  64     147.638 112.020  25.003  1.00 15.01       DS4
ATOM  36530  CG  LEU D  64     146.111 111.924  24.897  1.00 15.01       DS4
ATOM  36531  CD1 LEU D  64     145.718 110.513  24.612  1.00 15.01       DS4
ATOM  36532  CD2 LEU D  64     145.447 112.391  26.176  1.00 15.01       DS4
ATOM  36533  C   LEU D  64     147.991 110.384  26.872  1.00 19.37       DS4
ATOM  36534  O   LEU D  64     147.262 110.233  27.842  1.00 19.37       DS4
ATOM  36535  N   ARG D  65     148.545 109.365  26.229  1.00 25.59       DS4
ATOM  36536  CA  ARG D  65     148.310 108.004  26.693  1.00 25.59       DS4
ATOM  36537  CB  ARG D  65     148.833 106.976  25.685  1.00 37.52       DS4
ATOM  36538  CG  ARG D  65     149.278 105.674  26.354  1.00 37.52       DS4
ATOM  36539  CD  ARG D  65     149.278 104.487  25.403  1.00 37.52       DS4
ATOM  36540  NE  ARG D  65     150.221 103.450  25.819  1.00 37.52       DS4
ATOM  36541  CZ  ARG D  65     151.530 103.507  25.591  1.00 37.52       DS4
ATOM  36542  NH1 ARG D  65     152.050 104.547  24.950  1.00 37.52       DS4
ATOM  36543  NH2 ARG D  65     152.322 102.525  25.997  1.00 37.52       DS4
ATOM  36544  C   ARG D  65     148.964 107.752  28.059  1.00 25.59       DS4
ATOM  36545  O   ARG D  65     148.316 107.254  28.979  1.00 25.59       DS4
ATOM  36546  N   ARG D  66     150.245 108.093  28.191  1.00 39.45       DS4
ATOM  36547  CA  ARG D  66     150.950 107.881  29.448  1.00 39.45       DS4
ATOM  36548  CB  ARG D  66     152.372 108.442  29.384  1.00 63.46       DS4
ATOM  36549  CG  ARG D  66     153.440 107.394  29.082  1.00 63.46       DS4
ATOM  36550  CD  ARG D  66     154.812 108.049  28.934  1.00 63.46       DS4
ATOM  36551  NE  ARG D  66     155.923 107.105  28.756  1.00 63.46       DS4
ATOM  36552  CZ  ARG D  66     157.183 107.473  28.499  1.00 63.46       DS4
ATOM  36553  NH1 ARG D  66     157.496 108.759  28.381  1.00 63.46       DS4
ATOM  36554  NH2 ARG D  66     158.142 106.563  28.374  1.00 63.46       DS4
ATOM  36555  C   ARG D  66     150.185 108.495  30.610  1.00 39.45       DS4
ATOM  36556  O   ARG D  66     150.381 108.108  31.758  1.00 39.45       DS4
ATOM  36557  N   ILE D  67     149.302 109.443  30.320  1.00 41.67       DS4
ATOM  36558  CA  ILE D  67     148.519 110.052  31.385  1.00 41.67       DS4
ATOM  36559  CB  ILE D  67     147.706 111.253  30.893  1.00 41.57       DS4
ATOM  36560  CG2 ILE D  67     146.610 111.576  31.898  1.00 41.57       DS4
ATOM  36561  CG1 ILE D  67     148.631 112.445  30.666  1.00 41.57       DS4
ATOM  36562  CD1 ILE D  67     147.926 113.646  30.114  1.00 41.57       DS4
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ATOM  36563  C    ILE D  67     147.546 109.014  31.898  1.00 41.67      DS4
ATOM  36564  O    ILE D  67     147.735 108.461  32.978  1.00 41.67      DS4
ATOM  36565  N    TYR D  68     146.513 108.759  31.100  1.00 29.00      DS4
ATOM  36566  CA   TYR D  68     145.470 107.794  31.415  1.00 29.00      DS4
ATOM  36567  CB   TYR D  68     144.487 107.704  30.258  1.00 35.91      DS4
ATOM  36568  CG   TYR D  68     143.735 108.964  29.967  1.00 35.91      DS4
ATOM  36569  CD1  TYR D  68     144.397 110.124  29.595  1.00 35.91      DS4
ATOM  36570  CE1  TYR D  68     143.693 111.291  29.351  1.00 35.91      DS4
ATOM  36571  CD2  TYR D  68     142.352 108.999  30.080  1.00 35.91      DS4
ATOM  36572  CE2  TYR D  68     141.639 110.151  29.841  1.00 35.91      DS4
ATOM  36573  CZ   TYR D  68     142.307 111.297  29.480  1.00 35.91      DS4
ATOM  36574  OH   TYR D  68     141.587 112.454  29.279  1.00 35.91      DS4
ATOM  36575  C    TYR D  68     146.007 106.387  31.691  1.00 29.00      DS4
ATOM  36576  O    TYR D  68     145.233 105.435  31.779  1.00 29.00      DS4
ATOM  36577  N    GLY D  69     147.324 106.253  31.795  1.00 50.59      DS4
ATOM  36578  CA   GLY D  69     147.929 104.960  32.072  1.00 50.59      DS4
ATOM  36579  C    GLY D  69     147.287 103.740  31.433  1.00 50.59      DS4
ATOM  36580  O    GLY D  69     147.257 102.660  32.028  1.00 50.59      DS4
ATOM  36581  N    ILE D  70     146.784 103.900  30.217  1.00 42.62      DS4
ATOM  36582  CA   ILE D  70     146.147 102.804  29.506  1.00 42.62      DS4
ATOM  36583  CB   ILE D  70     144.904 103.341  28.772  1.00 41.99      DS4
ATOM  36584  CG2  ILE D  70     145.308 104.130  27.545  1.00 41.99      DS4
ATOM  36585  CG1  ILE D  70     143.998 102.194  28.368  1.00 41.99      DS4
ATOM  36586  CD1  ILE D  70     142.766 102.663  27.620  1.00 41.99      DS4
ATOM  36587  C    ILE D  70     147.146 102.127  28.531  1.00 42.62      DS4
ATOM  36588  O    ILE D  70     148.157 102.724  28.142  1.00 42.62      DS4
ATOM  36589  N    SER D  71     146.876 100.880  28.147  1.00 53.75      DS4
ATOM  36590  CA   SER D  71     147.767 100.132  27.245  1.00 53.75      DS4
ATOM  36591  CB   SER D  71     147.474  98.639  27.365  1.00114.69      DS4
ATOM  36592  OG   SER D  71     146.130  98.370  27.007  1.00114.69      DS4
ATOM  36593  C    SER D  71     147.685 100.524  25.770  1.00 53.75      DS4
ATOM  36594  O    SER D  71     146.597 100.667  25.224  1.00 53.75      DS4
ATOM  36595  N    GLU D  72     148.842 100.666  25.126  1.00 49.81      DS4
ATOM  36596  CA   GLU D  72     148.919 101.038  23.707  1.00 49.81      DS4
ATOM  36597  CB   GLU D  72     150.311 100.748  23.146  1.00 72.99      DS4
ATOM  36598  CG   GLU D  72     150.422 100.893  21.626  1.00 72.99      DS4
ATOM  36599  CD   GLU D  72     150.500 102.337  21.146  1.00 72.99      DS4
ATOM  36600  OE1  GLU D  72     150.583 102.552  19.916  1.00 72.99      DS4
ATOM  36601  OE2  GLU D  72     150.488 103.255  21.989  1.00 72.99      DS4
ATOM  36602  C    GLU D  72     147.894 100.305  22.860  1.00 49.81      DS4
ATOM  36603  O    GLU D  72     147.359 100.853  21.895  1.00 49.81      DS4
ATOM  36604  N    ARG D  73     147.639  99.052  23.207  1.00 48.99      DS4
ATOM  36605  CA   ARG D  73     146.657  98.266  22.480  1.00 48.99      DS4
ATOM  36606  CB   ARG D  73     146.551  96.873  23.093  1.00118.65      DS4
ATOM  36607  CG   ARG D  73     145.730  95.892  22.292  1.00118.65      DS4
ATOM  36608  CD   ARG D  73     146.450  95.496  21.027  1.00118.65      DS4
ATOM  36609  NE   ARG D  73     145.882  94.280  20.457  1.00118.65      DS4
ATOM  36610  CZ   ARG D  73     146.362  93.662  19.384  1.00118.65      DS4
ATOM  36611  NH1  ARG D  73     147.425  94.149  18.756  1.00118.65      DS4
ATOM  36612  NH2  ARG D  73     145.784  92.552  18.945  1.00118.65      DS4
ATOM  36613  C    ARG D  73     145.350  99.013  22.668  1.00 48.99      DS4
ATOM  36614  O    ARG D  73     144.856  99.664  21.749  1.00 48.99      DS4
ATOM  36615  N    GLN D  74     144.821  98.936  23.889  1.00 44.04      DS4
ATOM  36616  CA   GLN D  74     143.569  99.585  24.253  1.00 44.04      DS4
ATOM  36617  CB   GLN D  74     143.440  99.674  25.769  1.00 63.33      DS4
ATOM  36618  CG   GLN D  74     143.067  98.379  26.441  1.00 63.33      DS4
ATOM  36619  CD   GLN D  74     142.548  98.600  27.845  1.00 63.33      DS4
ATOM  36620  OE1  GLN D  74     143.286  99.035  28.732  1.00 63.33      DS4
ATOM  36621  NE2  GLN D  74     141.265  98.312  28.052  1.00 63.33      DS4
ATOM  36622  C    GLN D  74     143.446 100.979  23.677  1.00 44.04      DS4
ATOM  36623  O    GLN D  74     142.404 101.342  23.134  1.00 44.04      DS4
ATOM  36624  N    PHE D  75     144.523 101.748  23.811  1.00 34.60      DS4
ATOM  36625  CA   PHE D  75     144.602 103.129  23.339  1.00 34.60      DS4
ATOM  36626  CB   PHE D  75     145.957 103.704  23.711  1.00 44.93      DS4
ATOM  36627  CG   PHE D  75     146.084 105.168  23.466  1.00 44.93      DS4
ATOM  36628  CD1  PHE D  75     145.908 106.071  24.500  1.00 44.93      DS4
ATOM  36629  CD2  PHE D  75     146.432 105.646  22.215  1.00 44.93      DS4
ATOM  36630  CE1  PHE D  75     146.085 107.428  24.295  1.00 44.93      DS4
ATOM  36631  CE2  PHE D  75     146.610 107.007  22.004  1.00 44.93      DS4
ATOM  36632  CZ   PHE D  75     146.437 107.896  23.051  1.00 44.93      DS4
ATOM  36633  C    PHE D  75     144.417 103.215  21.834  1.00 34.60      DS4
ATOM  36634  O    PHE D  75     143.547 103.936  21.347  1.00 34.60      DS4
ATOM  36635  N    ARG D  76     145.248 102.478  21.104  1.00 25.01      DS4
ATOM  36636  CA   ARG D  76     145.184 102.453  19.641  1.00 25.01      DS4
ATOM  36637  CB   ARG D  76     146.214 101.467  19.087  1.00109.73      DS4
ATOM  36638  CG   ARG D  76     146.240 101.392  17.573  1.00109.73      DS4
ATOM  36639  CD   ARG D  76     146.748 102.683  16.971  1.00109.73      DS4
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ATOM  36640  NE  ARG D  76     146.502 102.751  15.534  1.00109.73       DS4
ATOM  36641  CZ  ARG D  76     146.928 101.853  14.651  1.00109.73       DS4
ATOM  36642  NH1 ARG D  76     147.632 100.797  15.049  1.00109.73       DS4
ATOM  36643  NH2 ARG D  76     146.649 102.015  13.363  1.00109.73       DS4
ATOM  36644  C   ARG D  76     143.784 102.063  19.156  1.00 25.01       DS4
ATOM  36645  O   ARG D  76     143.221 102.699  18.265  1.00 25.01       DS4
ATOM  36646  N   ASN D  77     143.228 101.012  19.744  1.00 43.63       DS4
ATOM  36647  CA  ASN D  77     141.901 100.577  19.365  1.00 43.63       DS4
ATOM  36648  CB  ASN D  77     141.472  99.367  20.190  1.00 69.69       DS4
ATOM  36649  CG  ASN D  77     142.334  98.163  19.942  1.00 69.69       DS4
ATOM  36650  OD1 ASN D  77     142.729  97.894  18.811  1.00 69.69       DS4
ATOM  36651  ND2 ASN D  77     142.618  97.414  20.996  1.00 69.69       DS4
ATOM  36652  C   ASN D  77     140.901 101.707  19.596  1.00 43.63       DS4
ATOM  36653  O   ASN D  77     139.931 101.869  18.847  1.00 43.63       DS4
ATOM  36654  N   LEU D  78     141.132 102.489  20.643  1.00 26.34       DS4
ATOM  36655  CA  LEU D  78     140.221 103.570  20.950  1.00 26.34       DS4
ATOM  36656  CB  LEU D  78     140.527 104.147  22.316  1.00 16.54       DS4
ATOM  36657  CG  LEU D  78     139.325 104.012  23.240  1.00 16.54       DS4
ATOM  36658  CD1 LEU D  78     139.624 104.675  24.565  1.00 16.54       DS4
ATOM  36659  CD2 LEU D  78     138.115 104.649  22.588  1.00 16.54       DS4
ATOM  36660  C   LEU D  78     140.342 104.640  19.906  1.00 26.34       DS4
ATOM  36661  O   LEU D  78     139.343 105.214  19.464  1.00 26.34       DS4
ATOM  36662  N   PHE D  79     141.579 104.901  19.504  1.00 29.77       DS4
ATOM  36663  CA  PHE D  79     141.810 105.907  18.493  1.00 29.77       DS4
ATOM  36664  CB  PHE D  79     143.286 106.085  18.189  1.00 27.17       DS4
ATOM  36665  CG  PHE D  79     143.522 107.058  17.103  1.00 27.17       DS4
ATOM  36666  CD1 PHE D  79     143.402 108.417  17.344  1.00 27.17       DS4
ATOM  36667  CD2 PHE D  79     143.722 106.624  15.809  1.00 27.17       DS4
ATOM  36668  CE1 PHE D  79     143.467 109.335  16.307  1.00 27.17       DS4
ATOM  36669  CE2 PHE D  79     143.788 107.527  14.762  1.00 27.17       DS4
ATOM  36670  CZ  PHE D  79     143.657 108.887  15.010  1.00 27.17       DS4
ATOM  36671  C   PHE D  79     141.109 105.503  17.216  1.00 29.77       DS4
ATOM  36672  O   PHE D  79     140.565 106.338  16.506  1.00 29.77       DS4
ATOM  36673  N   GLU D  80     141.128 104.217  16.914  1.00 22.64       DS4
ATOM  36674  CA  GLU D  80     140.465 103.773  15.708  1.00 22.64       DS4
ATOM  36675  CB  GLU D  80     140.813 102.317  15.394  1.00101.88       DS4
ATOM  36676  CG  GLU D  80     142.238 102.148  14.897  1.00101.88       DS4
ATOM  36677  CD  GLU D  80     142.527 102.983  13.659  1.00101.88       DS4
ATOM  36678  OE1 GLU D  80     143.721 103.196  13.344  1.00101.88       DS4
ATOM  36679  OE2 GLU D  80     141.560 103.421  12.997  1.00101.88       DS4
ATOM  36680  C   GLU D  80     138.963 103.949  15.824  1.00 22.64       DS4
ATOM  36681  O   GLU D  80     138.322 104.391  14.880  1.00 22.64       DS4
ATOM  36682  N   GLU D  81     138.385 103.623  16.971  1.00 49.87       DS4
ATOM  36683  CA  GLU D  81     136.948 103.790  17.079  1.00 49.87       DS4
ATOM  36684  CB  GLU D  81     136.421 103.344  18.439  1.00115.05       DS4
ATOM  36685  CG  GLU D  81     134.905 103.466  18.519  1.00115.05       DS4
ATOM  36686  CD  GLU D  81     134.331 102.946  19.816  1.00115.05       DS4
ATOM  36687  OE1 GLU D  81     133.085 102.929  19.945  1.00115.05       DS4
ATOM  36688  OE2 GLU D  81     135.122 102.557  20.702  1.00115.05       DS4
ATOM  36689  C   GLU D  81     136.635 105.257  16.878  1.00 49.87       DS4
ATOM  36690  O   GLU D  81     135.752 105.622  16.104  1.00 49.87       DS4
ATOM  36691  N   ALA D  82     137.373 106.105  17.574  1.00 35.28       DS4
ATOM  36692  CA  ALA D  82     137.141 107.523  17.440  1.00 35.28       DS4
ATOM  36693  CB  ALA D  82     138.163 108.296  18.250  1.00 96.96       DS4
ATOM  36694  C   ALA D  82     137.250 107.881  15.966  1.00 35.28       DS4
ATOM  36695  O   ALA D  82     136.447 108.647  15.439  1.00 35.28       DS4
ATOM  36696  N   SER D  83     138.238 107.302  15.295  1.00 28.45       DS4
ATOM  36697  CA  SER D  83     138.456 107.587  13.885  1.00 28.45       DS4
ATOM  36698  CB  SER D  83     139.654 106.789  13.354  1.00 60.75       DS4
ATOM  36699  OG  SER D  83     140.858 107.166  14.001  1.00 60.75       DS4
ATOM  36700  C   SER D  83     137.236 107.282  13.042  1.00 28.45       DS4
ATOM  36701  O   SER D  83     136.954 107.980  12.066  1.00 28.45       DS4
ATOM  36702  N   LYS D  84     136.510 106.239  13.424  1.00 46.27       DS4
ATOM  36703  CA  LYS D  84     135.330 105.825  12.686  1.00 46.27       DS4
ATOM  36704  CB  LYS D  84     135.036 104.351  12.987  1.00177.41       DS4
ATOM  36705  CG  LYS D  84     136.216 103.435  12.663  1.00177.41       DS4
ATOM  36706  CD  LYS D  84     136.013 102.003  13.151  1.00177.41       DS4
ATOM  36707  CE  LYS D  84     137.265 101.157  12.902  1.00177.41       DS4
ATOM  36708  NZ  LYS D  84     137.144  99.750  13.390  1.00177.41       DS4
ATOM  36709  C   LYS D  84     134.117 106.700  12.999  1.00 46.27       DS4
ATOM  36710  O   LYS D  84     133.434 107.179  12.086  1.00 46.27       DS4
ATOM  36711  N   LYS D  85     133.854 106.927  14.282  1.00 76.82       DS4
ATOM  36712  CA  LYS D  85     132.711 107.747  14.668  1.00 76.82       DS4
ATOM  36713  CB  LYS D  85     132.751 108.067  16.162  1.00 78.44       DS4
ATOM  36714  CG  LYS D  85     132.435 106.880  17.043  1.00 78.44       DS4
ATOM  36715  CD  LYS D  85     132.089 107.309  18.453  1.00 78.44       DS4
ATOM  36716  CE  LYS D  85     131.602 106.128  19.263  1.00 78.44       DS4
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ATOM  36717  NZ  LYS D  85     130.466 105.442  18.581  1.00 78.44       DS4
ATOM  36718  C   LYS D  85     132.664 109.041  13.878  1.00 76.82       DS4
ATOM  36719  O   LYS D  85     133.681 109.492  13.354  1.00 76.82       DS4
ATOM  36720  N   LYS D  86     131.475 109.629  13.784  1.00 78.31       DS4
ATOM  36721  CA  LYS D  86     131.305 110.888  13.066  1.00 78.31       DS4
ATOM  36722  CB  LYS D  86     129.819 111.234  12.918  1.00150.21       DS4
ATOM  36723  CG  LYS D  86     129.033 110.303  12.012  1.00150.21       DS4
ATOM  36724  CD  LYS D  86     127.618 110.817  11.796  1.00150.21       DS4
ATOM  36725  CE  LYS D  86     126.835 109.916  10.850  1.00150.21       DS4
ATOM  36726  NZ  LYS D  86     125.446 110.413  10.619  1.00150.21       DS4
ATOM  36727  C   LYS D  86     132.005 112.005  13.829  1.00 78.31       DS4
ATOM  36728  O   LYS D  86     132.649 111.769  14.850  1.00 78.31       DS4
ATOM  36729  N   GLY D  87     131.886 113.225  13.324  1.00 91.25       DS4
ATOM  36730  CA  GLY D  87     132.501 114.353  13.994  1.00 91.25       DS4
ATOM  36731  C   GLY D  87     134.014 114.352  14.026  1.00 91.25       DS4
ATOM  36732  O   GLY D  87     134.675 113.467  13.478  1.00 91.25       DS4
ATOM  36733  N   VAL D  88     134.561 115.366  14.683  1.00 38.59       DS4
ATOM  36734  CA  VAL D  88     135.997 115.516  14.795  1.00 38.59       DS4
ATOM  36735  CB  VAL D  88     136.359 116.731  15.659  1.00 32.55       DS4
ATOM  36736  CG1 VAL D  88     137.886 116.830  15.824  1.00 32.55       DS4
ATOM  36737  CG2 VAL D  88     135.787 117.983  15.040  1.00 32.55       DS4
ATOM  36738  C   VAL D  88     136.635 114.289  15.413  1.00 38.59       DS4
ATOM  36739  O   VAL D  88     136.308 113.905  16.533  1.00 38.59       DS4
ATOM  36740  N   THR D  89     137.556 113.676  14.687  1.00 40.30       DS4
ATOM  36741  CA  THR D  89     138.235 112.499  15.206  1.00 40.30       DS4
ATOM  36742  CB  THR D  89     139.337 112.043  14.253  1.00 58.53       DS4
ATOM  36743  OG1 THR D  89     138.877 112.154  12.900  1.00 58.53       DS4
ATOM  36744  CG2 THR D  89     139.703 110.610  14.540  1.00 58.53       DS4
ATOM  36745  C   THR D  89     138.875 112.819  16.558  1.00 40.30       DS4
ATOM  36746  O   THR D  89     138.836 112.021  17.483  1.00 40.30       DS4
ATOM  36747  N   GLY D  90     139.445 114.008  16.667  1.00 38.53       DS4
ATOM  36748  CA  GLY D  90     140.106 114.390  17.896  1.00 38.53       DS4
ATOM  36749  C   GLY D  90     139.272 114.393  19.159  1.00 38.53       DS4
ATOM  36750  O   GLY D  90     139.532 113.626  20.088  1.00 38.53       DS4
ATOM  36751  N   SER D  91     138.288 115.282  19.211  1.00 59.56       DS4
ATOM  36752  CA  SER D  91     137.428 115.385  20.379  1.00 59.56       DS4
ATOM  36753  CB  SER D  91     136.231 116.284  20.073  1.00124.02       DS4
ATOM  36754  OG  SER D  91     135.411 115.708  19.073  1.00124.02       DS4
ATOM  36755  C   SER D  91     136.942 113.996  20.765  1.00 59.56       DS4
ATOM  36756  O   SER D  91     137.199 113.511  21.873  1.00 59.56       DS4
ATOM  36757  N   VAL D  92     136.241 113.364  19.832  1.00 38.74       DS4
ATOM  36758  CA  VAL D  92     135.713 112.028  20.038  1.00 38.74       DS4
ATOM  36759  CB  VAL D  92     135.521 111.317  18.696  1.00 47.76       DS4
ATOM  36760  CG1 VAL D  92     135.131 109.879  18.921  1.00 47.76       DS4
ATOM  36761  CG2 VAL D  92     134.464 112.028  17.892  1.00 47.76       DS4
ATOM  36762  C   VAL D  92     136.655 111.197  20.895  1.00 38.74       DS4
ATOM  36763  O   VAL D  92     136.248 110.618  21.898  1.00 38.74       DS4
ATOM  36764  N   PHE D  93     137.919 111.156  20.487  1.00 24.46       DS4
ATOM  36765  CA  PHE D  93     138.944 110.398  21.187  1.00 24.46       DS4
ATOM  36766  CB  PHE D  93     140.318 110.693  20.587  1.00 39.03       DS4
ATOM  36767  CG  PHE D  93     141.362 109.678  20.937  1.00 39.03       DS4
ATOM  36768  CD1 PHE D  93     142.697 110.041  21.022  1.00 39.03       DS4
ATOM  36769  CD2 PHE D  93     141.014 108.352  21.165  1.00 39.03       DS4
ATOM  36770  CE1 PHE D  93     143.676 109.095  21.335  1.00 39.03       DS4
ATOM  36771  CE2 PHE D  93     141.980 107.400  21.477  1.00 39.03       DS4
ATOM  36772  CZ  PHE D  93     143.317 107.772  21.562  1.00 39.03       DS4
ATOM  36773  C   PHE D  93     138.961 110.745  22.666  1.00 24.46       DS4
ATOM  36774  O   PHE D  93     138.706 109.899  23.530  1.00 24.46       DS4
ATOM  36775  N   LEU D  94     139.270 111.998  22.959  1.00 31.30       DS4
ATOM  36776  CA  LEU D  94     139.312 112.424  24.340  1.00 31.30       DS4
ATOM  36777  CB  LEU D  94     139.489 113.929  24.409  1.00 24.12       DS4
ATOM  36778  CG  LEU D  94     140.887 114.323  23.943  1.00 24.12       DS4
ATOM  36779  CD1 LEU D  94     140.975 115.834  23.892  1.00 24.12       DS4
ATOM  36780  CD2 LEU D  94     141.947 113.715  24.888  1.00 24.12       DS4
ATOM  36781  C   LEU D  94     138.030 112.005  25.023  1.00 31.30       DS4
ATOM  36782  O   LEU D  94     138.046 111.515  26.150  1.00 31.30       DS4
ATOM  36783  N   GLY D  95     136.915 112.185  24.326  1.00 33.39       DS4
ATOM  36784  CA  GLY D  95     135.638 111.803  24.895  1.00 33.39       DS4
ATOM  36785  C   GLY D  95     135.683 110.373  25.381  1.00 33.39       DS4
ATOM  36786  O   GLY D  95     135.510 110.093  26.561  1.00 33.39       DS4
ATOM  36787  N   LEU D  96     135.937 109.464  24.456  1.00 39.16       DS4
ATOM  36788  CA  LEU D  96     136.006 108.054  24.775  1.00 39.16       DS4
ATOM  36789  CB  LEU D  96     136.302 107.265  23.508  1.00 29.00       DS4
ATOM  36790  CG  LEU D  96     135.062 106.998  22.656  1.00 29.00       DS4
ATOM  36791  CD1 LEU D  96     134.112 108.197  22.662  1.00 29.00       DS4
ATOM  36792  CD2 LEU D  96     135.521 106.662  21.264  1.00 29.00       DS4
ATOM  36793  C   LEU D  96     137.037 107.760  25.848  1.00 39.16       DS4
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ATOM  36794  O   LEU D  96     136.802 106.944  26.739  1.00 39.16      DS4
ATOM  36795  N   LEU D  97     138.184 108.415  25.764  1.00 36.59      DS4
ATOM  36796  CA  LEU D  97     139.212 108.219  26.771  1.00 36.59      DS4
ATOM  36797  CB  LEU D  97     140.434 109.060  26.431  1.00 43.00      DS4
ATOM  36798  CG  LEU D  97     141.460 108.401  25.528  1.00 43.00      DS4
ATOM  36799  CD1 LEU D  97     142.238 109.442  24.745  1.00 43.00      DS4
ATOM  36800  CD2 LEU D  97     142.371 107.567  26.407  1.00 43.00      DS4
ATOM  36801  C   LEU D  97     138.656 108.659  28.124  1.00 36.59      DS4
ATOM  36802  O   LEU D  97     138.784 107.960  29.121  1.00 36.59      DS4
ATOM  36803  N   GLU D  98     138.015 109.821  28.135  1.00 48.71      DS4
ATOM  36804  CA  GLU D  98     137.450 110.398  29.347  1.00 48.71      DS4
ATOM  36805  CB  GLU D  98     137.038 111.844  29.078  1.00 56.81      DS4
ATOM  36806  CG  GLU D  98     137.070 112.718  30.300  1.00 56.81      DS4
ATOM  36807  CD  GLU D  98     138.479 112.911  30.798  1.00 56.81      DS4
ATOM  36808  OE1 GLU D  98     139.324 113.361  30.001  1.00 56.81      DS4
ATOM  36809  OE2 GLU D  98     138.748 112.611  31.978  1.00 56.81      DS4
ATOM  36810  C   GLU D  98     136.248 109.639  29.887  1.00 48.71      DS4
ATOM  36811  O   GLU D  98     135.720 109.979  30.943  1.00 48.71      DS4
ATOM  36812  N   SER D  99     135.808 108.623  29.161  1.00 14.57      DS4
ATOM  36813  CA  SER D  99     134.658 107.851  29.585  1.00 14.57      DS4
ATOM  36814  CB  SER D  99     133.758 107.568  28.387  1.00 24.82      DS4
ATOM  36815  OG  SER D  99     133.110 108.752  27.962  1.00 24.82      DS4
ATOM  36816  C   SER D  99     135.000 106.539  30.305  1.00 14.57      DS4
ATOM  36817  O   SER D  99     134.099 105.790  30.730  1.00 14.57      DS4
ATOM  36818  N   ARG D 100     136.293 106.256  30.450  1.00 42.37      DS4
ATOM  36819  CA  ARG D 100     136.699 105.043  31.142  1.00 42.37      DS4
ATOM  36820  CB  ARG D 100     138.215 104.848  31.081  1.00 64.44      DS4
ATOM  36821  CG  ARG D 100     138.732 104.334  29.746  1.00 64.44      DS4
ATOM  36822  CD  ARG D 100     140.253 104.191  29.757  1.00 64.44      DS4
ATOM  36823  NE  ARG D 100     140.734 103.069  30.569  1.00 64.44      DS4
ATOM  36824  CZ  ARG D 100     140.661 101.791  30.201  1.00 64.44      DS4
ATOM  36825  NH1 ARG D 100     140.124 101.473  29.031  1.00 64.44      DS4
ATOM  36826  NH2 ARG D 100     141.125 100.829  30.995  1.00 64.44      DS4
ATOM  36827  C   ARG D 100     136.259 105.192  32.584  1.00 42.37      DS4
ATOM  36828  O   ARG D 100     136.590 106.171  33.245  1.00 42.37      DS4
ATOM  36829  N   LEU D 101     135.484 104.226  33.056  1.00 31.59      DS4
ATOM  36830  CA  LEU D 101     135.002 104.236  34.428  1.00 31.59      DS4
ATOM  36831  CB  LEU D 101     134.274 102.926  34.740  1.00 20.06      DS4
ATOM  36832  CG  LEU D 101     133.786 102.712  36.171  1.00 20.06      DS4
ATOM  36833  CD1 LEU D 101     132.746 101.614  36.185  1.00 20.06      DS4
ATOM  36834  CD2 LEU D 101     134.952 102.353  37.072  1.00 20.06      DS4
ATOM  36835  C   LEU D 101     136.155 104.442  35.400  1.00 31.59      DS4
ATOM  36836  O   LEU D 101     136.013 105.166  36.378  1.00 31.59      DS4
ATOM  36837  N   ASP D 102     137.291 103.803  35.146  1.00 41.27      DS4
ATOM  36838  CA  ASP D 102     138.417 103.991  36.042  1.00 41.27      DS4
ATOM  36839  CB  ASP D 102     139.636 103.156  35.613  1.00 70.32      DS4
ATOM  36840  CG  ASP D 102     140.023 103.365  34.163  1.00 70.32      DS4
ATOM  36841  OD1 ASP D 102     140.406 104.493  33.785  1.00 70.32      DS4
ATOM  36842  OD2 ASP D 102     139.953 102.383  33.398  1.00 70.32      DS4
ATOM  36843  C   ASP D 102     138.748 105.479  36.063  1.00 41.27      DS4
ATOM  36844  O   ASP D 102     139.135 106.031  37.095  1.00 41.27      DS4
ATOM  36845  N   ASN D 103     138.572 106.138  34.924  1.00 29.71      DS4
ATOM  36846  CA  ASN D 103     138.831 107.564  34.844  1.00 29.71      DS4
ATOM  36847  CB  ASN D 103     138.785 108.014  33.392  1.00 57.70      DS4
ATOM  36848  CG  ASN D 103     138.933 109.505  33.247  1.00 57.70      DS4
ATOM  36849  OD1 ASN D 103     139.978 110.072  33.570  1.00 57.70      DS4
ATOM  36850  ND2 ASN D 103     137.883 110.156  32.760  1.00 57.70      DS4
ATOM  36851  C   ASN D 103     137.758 108.302  35.652  1.00 29.71      DS4
ATOM  36852  O   ASN D 103     138.062 109.019  36.599  1.00 29.71      DS4
ATOM  36853  N   VAL D 104     136.497 108.116  35.280  1.00 20.17      DS4
ATOM  36854  CA  VAL D 104     135.403 108.763  35.986  1.00 20.17      DS4
ATOM  36855  CB  VAL D 104     134.061 108.143  35.620  1.00 16.91      DS4
ATOM  36856  CG1 VAL D 104     132.937 108.928  36.283  1.00 16.91      DS4
ATOM  36857  CG2 VAL D 104     133.907 108.105  34.120  1.00 16.91      DS4
ATOM  36858  C   VAL D 104     135.563 108.649  37.494  1.00 20.17      DS4
ATOM  36859  O   VAL D 104     135.433 109.626  38.209  1.00 20.17      DS4
ATOM  36860  N   VAL D 105     135.826 107.455  37.992  1.00 45.45      DS4
ATOM  36861  CA  VAL D 105     135.995 107.321  39.422  1.00 45.45      DS4
ATOM  36862  CB  VAL D 105     136.304 105.861  39.783  1.00 36.42      DS4
ATOM  36863  CG1 VAL D 105     137.112 105.762  41.073  1.00 36.42      DS4
ATOM  36864  CG2 VAL D 105     134.991 105.126  39.939  1.00 36.42      DS4
ATOM  36865  C   VAL D 105     137.086 108.286  39.905  1.00 45.45      DS4
ATOM  36866  O   VAL D 105     136.943 108.927  40.952  1.00 45.45      DS4
ATOM  36867  N   TYR D 106     138.168 108.404  39.142  1.00 36.74      DS4
ATOM  36868  CA  TYR D 106     139.231 109.330  39.508  1.00 36.74      DS4
ATOM  36869  CB  TYR D 106     140.385 109.243  38.534  1.00 61.94      DS4
ATOM  36870  CG  TYR D 106     141.280 110.454  38.585  1.00 61.94      DS4
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ATOM  36871  CD1 TYR D 106     142.248 110.584  39.580  1.00 61.94      DS4
ATOM  36872  CE1 TYR D 106     143.079 111.691  39.633  1.00 61.94      DS4
ATOM  36873  CD2 TYR D 106     141.158 111.469  37.639  1.00 61.94      DS4
ATOM  36874  CE2 TYR D 106     141.978 112.582  37.678  1.00 61.94      DS4
ATOM  36875  CZ  TYR D 106     142.942 112.693  38.679  1.00 61.94      DS4
ATOM  36876  OH  TYR D 106     143.768 113.802  38.730  1.00 61.94      DS4
ATOM  36877  C   TYR D 106     138.659 110.730  39.424  1.00 36.74      DS4
ATOM  36878  O   TYR D 106     138.742 111.500  40.367  1.00 36.74      DS4
ATOM  36879  N   ARG D 107     138.102 111.058  38.266  1.00 41.64      DS4
ATOM  36880  CA  ARG D 107     137.488 112.357  38.063  1.00 41.64      DS4
ATOM  36881  CB  ARG D 107     136.652 112.363  36.777  1.00 71.35      DS4
ATOM  36882  CG  ARG D 107     137.433 112.493  35.483  1.00 71.35      DS4
ATOM  36883  CD  ARG D 107     138.200 113.805  35.432  1.00 71.35      DS4
ATOM  36884  NE  ARG D 107     138.795 114.050  34.121  1.00 71.35      DS4
ATOM  36885  CZ  ARG D 107     139.879 114.793  33.925  1.00 71.35      DS4
ATOM  36886  NH1 ARG D 107     140.487 115.359  34.957  1.00 71.35      DS4
ATOM  36887  NH2 ARG D 107     140.353 114.974  32.700  1.00 71.35      DS4
ATOM  36888  C   ARG D 107     136.579 112.715  39.243  1.00 41.64      DS4
ATOM  36889  O   ARG D 107     136.821 113.696  39.939  1.00 41.64      DS4
ATOM  36890  N   LEU D 108     135.541 111.914  39.472  1.00 57.01      DS4
ATOM  36891  CA  LEU D 108     134.598 112.183  40.549  1.00 57.01      DS4
ATOM  36892  CB  LEU D 108     133.484 111.148  40.569  1.00 46.57      DS4
ATOM  36893  CG  LEU D 108     132.456 111.376  39.465  1.00 46.57      DS4
ATOM  36894  CD1 LEU D 108     131.191 110.591  39.786  1.00 46.57      DS4
ATOM  36895  CD2 LEU D 108     132.123 112.852  39.360  1.00 46.57      DS4
ATOM  36896  C   LEU D 108     135.172 112.301  41.938  1.00 57.01      DS4
ATOM  36897  O   LEU D 108     134.435 112.578  42.874  1.00 57.01      DS4
ATOM  36898  N   GLY D 109     136.470 112.072  42.090  1.00 53.20      DS4
ATOM  36899  CA  GLY D 109     137.078 112.216  43.400  1.00 53.20      DS4
ATOM  36900  C   GLY D 109     137.251 111.008  44.299  1.00 53.20      DS4
ATOM  36901  O   GLY D 109     138.126 111.024  45.158  1.00 53.20      DS4
ATOM  36902  N   PHE D 110     136.449 109.964  44.137  1.00 63.84      DS4
ATOM  36903  CA  PHE D 110     136.594 108.799  45.006  1.00 63.84      DS4
ATOM  36904  CB  PHE D 110     135.720 107.647  44.510  1.00 49.24      DS4
ATOM  36905  CG  PHE D 110     134.342 108.063  44.105  1.00 49.24      DS4
ATOM  36906  CD1 PHE D 110     133.694 109.105  44.756  1.00 49.24      DS4
ATOM  36907  CD2 PHE D 110     133.680 107.403  43.082  1.00 49.24      DS4
ATOM  36908  CE1 PHE D 110     132.404 109.480  44.385  1.00 49.24      DS4
ATOM  36909  CE2 PHE D 110     132.396 107.773  42.711  1.00 49.24      DS4
ATOM  36910  CZ  PHE D 110     131.759 108.809  43.361  1.00 49.24      DS4
ATOM  36911  C   PHE D 110     138.053 108.325  45.101  1.00 63.84      DS4
ATOM  36912  O   PHE D 110     138.509 107.887  46.165  1.00 63.84      DS4
ATOM  36913  N   ALA D 111     138.781 108.414  43.989  1.00 58.60      DS4
ATOM  36914  CA  ALA D 111     140.175 107.992  43.967  1.00 58.60      DS4
ATOM  36915  CB  ALA D 111     140.421 107.084  42.794  1.00138.43      DS4
ATOM  36916  C   ALA D 111     141.082 109.203  43.882  1.00 58.60      DS4
ATOM  36917  O   ALA D 111     140.710 110.224  43.304  1.00 58.60      DS4
ATOM  36918  N   VAL D 112     142.276 109.080  44.451  1.00 59.69      DS4
ATOM  36919  CA  VAL D 112     143.244 110.171  44.460  1.00 59.69      DS4
ATOM  36920  CB  VAL D 112     144.239 110.008  45.607  1.00 65.86      DS4
ATOM  36921  CG1 VAL D 112     145.117 111.229  45.694  1.00 65.86      DS4
ATOM  36922  CG2 VAL D 112     143.505 109.787  46.906  1.00 65.86      DS4
ATOM  36923  C   VAL D 112     144.047 110.263  43.171  1.00 59.69      DS4
ATOM  36924  O   VAL D 112     144.542 111.331  42.805  1.00 59.69      DS4
ATOM  36925  N   SER D 113     144.183 109.132  42.490  1.00 51.21      DS4
ATOM  36926  CA  SER D 113     144.938 109.072  41.250  1.00 51.21      DS4
ATOM  36927  CB  SER D 113     146.353 108.555  41.517  1.00 58.64      DS4
ATOM  36928  OG  SER D 113     146.324 107.211  41.977  1.00 58.64      DS4
ATOM  36929  C   SER D 113     144.239 108.123  40.300  1.00 51.21      DS4
ATOM  36930  O   SER D 113     143.452 107.279  40.726  1.00 51.21      DS4
ATOM  36931  N   ARG D 114     144.536 108.256  39.013  1.00 44.28      DS4
ATOM  36932  CA  ARG D 114     143.934 107.394  38.012  1.00 44.28      DS4
ATOM  36933  CB  ARG D 114     144.461 107.764  36.619  1.00 39.03      DS4
ATOM  36934  CG  ARG D 114     144.515 109.277  36.369  1.00 39.03      DS4
ATOM  36935  CD  ARG D 114     144.743 109.626  34.905  1.00 39.03      DS4
ATOM  36936  NE  ARG D 114     143.499 109.946  34.208  1.00 39.03      DS4
ATOM  36937  CZ  ARG D 114     142.950 111.157  34.185  1.00 39.03      DS4
ATOM  36938  NH1 ARG D 114     143.540 112.161  34.823  1.00 39.03      DS4
ATOM  36939  NH2 ARG D 114     141.826 111.369  33.512  1.00 39.03      DS4
ATOM  36940  C   ARG D 114     144.301 105.959  38.388  1.00 44.28      DS4
ATOM  36941  O   ARG D 114     143.451 105.073  38.390  1.00 44.28      DS4
ATOM  36942  N   ARG D 115     145.568 105.746  38.735  1.00 43.46      DS4
ATOM  36943  CA  ARG D 115     146.035 104.424  39.131  1.00 43.46      DS4
ATOM  36944  CB  ARG D 115     147.497 104.476  39.570  1.00100.53      DS4
ATOM  36945  CG  ARG D 115     148.488 104.302  38.445  1.00100.53      DS4
ATOM  36946  CD  ARG D 115     149.828 103.839  38.980  1.00100.53      DS4
ATOM  36947  NE  ARG D 115     150.708 103.402  37.904  1.00100.53      DS4
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ATOM  36948  CZ  ARG D 115     151.921 102.890  38.086  1.00100.53      DS4
ATOM  36949  NH1 ARG D 115     152.410 102.746  39.310  1.00100.53      DS4
ATOM  36950  NH2 ARG D 115     152.648 102.524  37.038  1.00100.53      DS4
ATOM  36951  C   ARG D 115     145.195 103.875  40.269  1.00 43.46      DS4
ATOM  36952  O   ARG D 115     144.595 102.811  40.142  1.00 43.46      DS4
ATOM  36953  N   GLN D 116     145.150 104.607  41.380  1.00 67.46      DS4
ATOM  36954  CA  GLN D 116     144.380 104.184  42.547  1.00 67.46      DS4
ATOM  36955  CB  GLN D 116     144.425 105.253  43.635  1.00 69.88      DS4
ATOM  36956  CG  GLN D 116     143.701 104.845  44.910  1.00 69.88      DS4
ATOM  36957  CD  GLN D 116     143.511 105.995  45.876  1.00 69.88      DS4
ATOM  36958  OE1 GLN D 116     142.675 106.874  45.657  1.00 69.88      DS4
ATOM  36959  NE2 GLN D 116     144.295 106.001  46.951  1.00 69.88      DS4
ATOM  36960  C   GLN D 116     142.919 103.876  42.217  1.00 67.46      DS4
ATOM  36961  O   GLN D 116     142.342 102.934  42.753  1.00 67.46      DS4
ATOM  36962  N   ALA D 117     142.314 104.673  41.347  1.00 47.45      DS4
ATOM  36963  CA  ALA D 117     140.927 104.437  40.983  1.00 47.45      DS4
ATOM  36964  CB  ALA D 117     140.423 105.527  40.052  1.00 55.75      DS4
ATOM  36965  C   ALA D 117     140.812 103.090  40.303  1.00 47.45      DS4
ATOM  36966  O   ALA D 117     139.862 102.347  40.543  1.00 47.45      DS4
ATOM  36967  N   ARG D 118     141.784 102.774  39.454  1.00 70.78      DS4
ATOM  36968  CA  ARG D 118     141.755 101.511  38.737  1.00 70.78      DS4
ATOM  36969  CB  ARG D 118     143.062 101.289  37.959  1.00 55.63      DS4
ATOM  36970  CG  ARG D 118     142.947 100.247  36.838  1.00 55.63      DS4
ATOM  36971  CD  ARG D 118     144.280  99.941  36.137  1.00 55.63      DS4
ATOM  36972  NE  ARG D 118     144.141  98.843  35.176  1.00 55.63      DS4
ATOM  36973  CZ  ARG D 118     143.709  98.978  33.922  1.00 55.63      DS4
ATOM  36974  NH1 ARG D 118     143.605  97.913  33.135  1.00 55.63      DS4
ATOM  36975  NH2 ARG D 118     143.408 100.179  33.443  1.00 55.63      DS4
ATOM  36976  C   ARG D 118     141.532 100.378  39.730  1.00 70.78      DS4
ATOM  36977  O   ARG D 118     140.689  99.509  39.510  1.00 70.78      DS4
ATOM  36978  N   GLN D 119     142.264 100.402  40.839  1.00 65.44      DS4
ATOM  36979  CA  GLN D 119     142.123  99.351  41.841  1.00 65.44      DS4
ATOM  36980  CB  GLN D 119     143.178  99.516  42.938  1.00 56.12      DS4
ATOM  36981  CG  GLN D 119     143.467  98.241  43.703  1.00 56.12      DS4
ATOM  36982  CD  GLN D 119     144.457  98.440  44.838  1.00 56.12      DS4
ATOM  36983  OE1 GLN D 119     144.195  99.177  45.787  1.00 56.12      DS4
ATOM  36984  NE2 GLN D 119     145.601  97.782  44.744  1.00 56.12      DS4
ATOM  36985  C   GLN D 119     140.722  99.353  42.456  1.00 65.44      DS4
ATOM  36986  O   GLN D 119     140.064  98.313  42.539  1.00 65.44      DS4
ATOM  36987  N   LEU D 120     140.260 100.523  42.877  1.00 68.91      DS4
ATOM  36988  CA  LEU D 120     138.938 100.625  43.477  1.00 68.91      DS4
ATOM  36989  CB  LEU D 120     138.579 102.088  43.738  1.00 37.83      DS4
ATOM  36990  CG  LEU D 120     139.556 102.834  44.640  1.00 37.83      DS4
ATOM  36991  CD1 LEU D 120     139.013 104.212  44.926  1.00 37.83      DS4
ATOM  36992  CD2 LEU D 120     139.756 102.062  45.926  1.00 37.83      DS4
ATOM  36993  C   LEU D 120     137.892 100.000  42.574  1.00 68.91      DS4
ATOM  36994  O   LEU D 120     136.844  99.566  43.037  1.00 68.91      DS4
ATOM  36995  N   VAL D 121     138.181  99.958  41.282  1.00 42.91      DS4
ATOM  36996  CA  VAL D 121     137.249  99.380  40.327  1.00 42.91      DS4
ATOM  36997  CB  VAL D 121     137.474  99.970  38.923  1.00 52.52      DS4
ATOM  36998  CG1 VAL D 121     136.458  99.388  37.924  1.00 52.52      DS4
ATOM  36999  CG2 VAL D 121     137.369 101.479  38.994  1.00 52.52      DS4
ATOM  37000  C   VAL D 121     137.426  97.866  40.281  1.00 42.91      DS4
ATOM  37001  O   VAL D 121     136.453  97.106  40.349  1.00 42.91      DS4
ATOM  37002  N   ARG D 122     138.672  97.431  40.155  1.00 49.81      DS4
ATOM  37003  CA  ARG D 122     138.950  96.016  40.124  1.00 49.81      DS4
ATOM  37004  CB  ARG D 122     140.446  95.770  40.021  1.00 58.30      DS4
ATOM  37005  CG  ARG D 122     140.947  95.588  38.611  1.00 58.30      DS4
ATOM  37006  CD  ARG D 122     140.838  94.136  38.158  1.00 58.30      DS4
ATOM  37007  NE  ARG D 122     139.489  93.732  37.789  1.00 58.30      DS4
ATOM  37008  CZ  ARG D 122     139.162  92.482  37.484  1.00 58.30      DS4
ATOM  37009  NH1 ARG D 122     140.090  91.537  37.514  1.00 58.30      DS4
ATOM  37010  NH2 ARG D 122     137.918  92.172  37.140  1.00 58.30      DS4
ATOM  37011  C   ARG D 122     138.428  95.417  41.408  1.00 49.81      DS4
ATOM  37012  O   ARG D 122     137.691  94.438  41.381  1.00 49.81      DS4
ATOM  37013  N   HIS D 123     138.791  96.015  42.538  1.00 55.77      DS4
ATOM  37014  CA  HIS D 123     138.346  95.502  43.826  1.00 55.77      DS4
ATOM  37015  CB  HIS D 123     139.244  96.041  44.934  1.00 44.76      DS4
ATOM  37016  CG  HIS D 123     140.681  95.650  44.784  1.00 44.76      DS4
ATOM  37017  CD2 HIS D 123     141.813  96.192  45.292  1.00 44.76      DS4
ATOM  37018  ND1 HIS D 123     141.076  94.533  44.080  1.00 44.76      DS4
ATOM  37019  CE1 HIS D 123     142.389  94.402  44.166  1.00 44.76      DS4
ATOM  37020  NE2 HIS D 123     142.860  95.397  44.896  1.00 44.76      DS4
ATOM  37021  C   HIS D 123     136.870  95.768  44.155  1.00 55.77      DS4
ATOM  37022  O   HIS D 123     136.495  95.890  45.317  1.00 55.77      DS4
ATOM  37023  N   GLY D 124     136.039  95.854  43.120  1.00 76.90      DS4
ATOM  37024  CA  GLY D 124     134.610  96.066  43.304  1.00 76.90      DS4
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ATOM  37025  C   GLY D 124     134.107  97.262  44.096  1.00 76.90      DS4
ATOM  37026  O   GLY D 124     132.918  97.576  44.030  1.00 76.90      DS4
ATOM  37027  N   HIS D 125     134.992  97.926  44.837  1.00 52.28      DS4
ATOM  37028  CA  HIS D 125     134.626  99.088  45.651  1.00 52.28      DS4
ATOM  37029  CB  HIS D 125     135.888  99.746  46.215  1.00 54.54      DS4
ATOM  37030  CG  HIS D 125     136.738  98.820  47.028  1.00 54.54      DS4
ATOM  37031  CD2 HIS D 125     138.083  98.683  47.113  1.00 54.54      DS4
ATOM  37032  ND1 HIS D 125     136.203  97.910  47.915  1.00 54.54      DS4
ATOM  37033  CE1 HIS D 125     137.181  97.252  48.511  1.00 54.54      DS4
ATOM  37034  NE2 HIS D 125     138.332  97.702  48.044  1.00 54.54      DS4
ATOM  37035  C   HIS D 125     133.781 100.154  44.937  1.00 52.28      DS4
ATOM  37036  O   HIS D 125     133.288 101.084  45.571  1.00 52.28      DS4
ATOM  37037  N   ILE D 126     133.611 100.015  43.626  1.00 44.31      DS4
ATOM  37038  CA  ILE D 126     132.828 100.969  42.850  1.00 44.31      DS4
ATOM  37039  CB  ILE D 126     133.629 101.453  41.648  1.00 42.51      DS4
ATOM  37040  CG2 ILE D 126     132.831 102.485  40.855  1.00 42.51      DS4
ATOM  37041  CG1 ILE D 126     134.949 102.038  42.135  1.00 42.51      DS4
ATOM  37042  CD1 ILE D 126     134.773 103.202  43.078  1.00 42.51      DS4
ATOM  37043  C   ILE D 126     131.536 100.342  42.346  1.00 44.31      DS4
ATOM  37044  O   ILE D 126     131.325  99.140  42.488  1.00 44.31      DS4
ATOM  37045  N   THR D 127     130.671 101.160  41.758  1.00 41.35      DS4
ATOM  37046  CA  THR D 127     129.414 100.667  41.232  1.00 41.35      DS4
ATOM  37047  CB  THR D 127     128.429 100.353  42.341  1.00 47.83      DS4
ATOM  37048  OG1 THR D 127     127.202  99.891  41.765  1.00 47.83      DS4
ATOM  37049  CG2 THR D 127     128.151 101.595  43.153  1.00 47.83      DS4
ATOM  37050  C   THR D 127     128.734 101.650  40.291  1.00 41.35      DS4
ATOM  37051  O   THR D 127     128.697 102.861  40.538  1.00 41.35      DS4
ATOM  37052  N   VAL D 128     128.177 101.101  39.217  1.00 36.35      DS4
ATOM  37053  CA  VAL D 128     127.478 101.878  38.212  1.00 36.35      DS4
ATOM  37054  CB  VAL D 128     128.003 101.560  36.816  1.00 24.70      DS4
ATOM  37055  CG1 VAL D 128     127.444 102.548  35.821  1.00 24.70      DS4
ATOM  37056  CG2 VAL D 128     129.517 101.583  36.819  1.00 24.70      DS4
ATOM  37057  C   VAL D 128     126.010 101.504  38.258  1.00 36.35      DS4
ATOM  37058  O   VAL D 128     125.627 100.441  37.791  1.00 36.35      DS4
ATOM  37059  N   ASN D 129     125.198 102.383  38.832  1.00 66.24      DS4
ATOM  37060  CA  ASN D 129     123.763 102.158  38.944  1.00 66.24      DS4
ATOM  37061  CB  ASN D 129     123.152 101.853  37.579  1.00 44.94      DS4
ATOM  37062  CG  ASN D 129     123.772 102.670  36.475  1.00 44.94      DS4
ATOM  37063  OD1 ASN D 129     123.532 103.876  36.353  1.00 44.94      DS4
ATOM  37064  ND2 ASN D 129     124.596 102.018  35.663  1.00 44.94      DS4
ATOM  37065  C   ASN D 129     123.475 100.998  39.872  1.00 66.24      DS4
ATOM  37066  O   ASN D 129     122.528 100.244  39.646  1.00 66.24      DS4
ATOM  37067  N   GLY D 130     124.290 100.851  40.911  1.00 74.48      DS4
ATOM  37068  CA  GLY D 130     124.076  99.770  41.854  1.00 74.48      DS4
ATOM  37069  C   GLY D 130     124.671  98.470  41.364  1.00 74.48      DS4
ATOM  37070  O   GLY D 130     125.102  97.635  42.158  1.00 74.48      DS4
ATOM  37071  N   ARG D 131     124.679  98.291  40.049  1.00 44.46      DS4
ATOM  37072  CA  ARG D 131     125.246  97.098  39.446  1.00 44.46      DS4
ATOM  37073  CB  ARG D 131     125.062  97.148  37.928  1.00200.79      DS4
ATOM  37074  CG  ARG D 131     124.758  95.821  37.267  1.00200.79      DS4
ATOM  37075  CD  ARG D 131     123.270  95.531  37.310  1.00200.79      DS4
ATOM  37076  NE  ARG D 131     122.907  94.403  36.457  1.00200.79      DS4
ATOM  37077  CZ  ARG D 131     121.656  94.052  36.171  1.00200.79      DS4
ATOM  37078  NH1 ARG D 131     120.640  94.744  36.669  1.00200.79      DS4
ATOM  37079  NH2 ARG D 131     121.419  93.011  35.382  1.00200.79      DS4
ATOM  37080  C   ARG D 131     126.737  97.200  39.772  1.00 44.46      DS4
ATOM  37081  O   ARG D 131     127.342  98.253  39.559  1.00 44.46      DS4
ATOM  37082  N   ARG D 132     127.332  96.141  40.314  1.00 52.27      DS4
ATOM  37083  CA  ARG D 132     128.753  96.196  40.604  1.00 52.27      DS4
ATOM  37084  CB  ARG D 132     129.194  94.997  41.438  1.00107.81      DS4
ATOM  37085  CG  ARG D 132     130.696  94.960  41.701  1.00107.81      DS4
ATOM  37086  CD  ARG D 132     131.037  93.978  42.810  1.00107.81      DS4
ATOM  37087  NE  ARG D 132     130.594  92.622  42.499  1.00107.81      DS4
ATOM  37088  CZ  ARG D 132     130.173  91.747  43.407  1.00107.81      DS4
ATOM  37089  NH1 ARG D 132     130.134  92.083  44.689  1.00107.81      DS4
ATOM  37090  NH2 ARG D 132     129.784  90.537  43.031  1.00107.81      DS4
ATOM  37091  C   ARG D 132     129.453  96.178  39.255  1.00 52.27      DS4
ATOM  37092  O   ARG D 132     128.857  95.784  38.247  1.00 52.27      DS4
ATOM  37093  N   VAL D 133     130.707  96.616  39.231  1.00 45.37      DS4
ATOM  37094  CA  VAL D 133     131.499  96.653  38.003  1.00 45.37      DS4
ATOM  37095  CB  VAL D 133     131.101  97.867  37.124  1.00 10.22      DS4
ATOM  37096  CG1 VAL D 133     132.221  98.222  36.169  1.00 10.22      DS4
ATOM  37097  CG2 VAL D 133     129.838  97.545  36.341  1.00 10.22      DS4
ATOM  37098  C   VAL D 133     132.981  96.729  38.367  1.00 45.37      DS4
ATOM  37099  O   VAL D 133     133.404  97.610  39.117  1.00 45.37      DS4
ATOM  37100  N   ASP D 134     133.768  95.795  37.849  1.00 30.56      DS4
ATOM  37101  CA  ASP D 134     135.187  95.774  38.155  1.00 30.56      DS4
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ATOM  37102  CB  ASP D 134     135.532  94.529  38.967  1.00 86.00      DS4
ATOM  37103  CG  ASP D 134     135.079  93.251  38.293  1.00 86.00      DS4
ATOM  37104  OD1 ASP D 134     135.413  93.061  37.104  1.00 86.00      DS4
ATOM  37105  OD2 ASP D 134     134.395  92.436  38.952  1.00 86.00      DS4
ATOM  37106  C   ASP D 134     135.996  95.797  36.880  1.00 30.56      DS4
ATOM  37107  O   ASP D 134     137.069  95.202  36.797  1.00 30.56      DS4
ATOM  37108  N   LEU D 135     135.470  96.494  35.883  1.00 46.42      DS4
ATOM  37109  CA  LEU D 135     136.128  96.608  34.589  1.00 46.42      DS4
ATOM  37110  CB  LEU D 135     135.176  96.176  33.478  1.00 34.20      DS4
ATOM  37111  CG  LEU D 135     134.609  94.782  33.720  1.00 34.20      DS4
ATOM  37112  CD1 LEU D 135     133.444  94.544  32.811  1.00 34.20      DS4
ATOM  37113  CD2 LEU D 135     135.704  93.749  33.519  1.00 34.20      DS4
ATOM  37114  C   LEU D 135     136.548  98.042  34.373  1.00 46.42      DS4
ATOM  37115  O   LEU D 135     135.770  98.875  33.925  1.00 46.42      DS4
ATOM  37116  N   PRO D 136     137.792  98.351  34.704  1.00 24.01      DS4
ATOM  37117  CD  PRO D 136     138.878  97.413  34.998  1.00 23.54      DS4
ATOM  37118  CA  PRO D 136     138.306  99.704  34.534  1.00 24.01      DS4
ATOM  37119  CB  PRO D 136     139.812  99.517  34.630  1.00 23.54      DS4
ATOM  37120  CG  PRO D 136     139.948  98.336  35.499  1.00 23.54      DS4
ATOM  37121  C   PRO D 136     137.902 100.169  33.155  1.00 24.01      DS4
ATOM  37122  O   PRO D 136     137.300 101.222  32.992  1.00 24.01      DS4
ATOM  37123  N   SER D 137     138.236  99.349  32.165  1.00 31.16      DS4
ATOM  37124  CA  SER D 137     137.937  99.624  30.768  1.00 31.16      DS4
ATOM  37125  CB  SER D 137     138.326  98.416  29.918  1.00 78.56      DS4
ATOM  37126  OG  SER D 137     137.763  97.228  30.446  1.00 78.56      DS4
ATOM  37127  C   SER D 137     136.481  99.986  30.504  1.00 31.16      DS4
ATOM  37128  O   SER D 137     136.187 100.603  29.492  1.00 31.16      DS4
ATOM  37129  N   TYR D 138     135.585  99.607  31.414  1.00 29.70      DS4
ATOM  37130  CA  TYR D 138     134.150  99.879  31.287  1.00 29.70      DS4
ATOM  37131  CB  TYR D 138     133.460  99.680  32.632  1.00 39.78      DS4
ATOM  37132  CG  TYR D 138     131.961  99.738  32.530  1.00 39.78      DS4
ATOM  37133  CD1 TYR D 138     131.203  98.582  32.620  1.00 39.78      DS4
ATOM  37134  CE1 TYR D 138     129.839  98.606  32.447  1.00 39.78      DS4
ATOM  37135  CD2 TYR D 138     131.304 100.935  32.267  1.00 39.78      DS4
ATOM  37136  CE2 TYR D 138     129.939 100.969  32.089  1.00 39.78      DS4
ATOM  37137  CZ  TYR D 138     129.214  99.795  32.178  1.00 39.78      DS4
ATOM  37138  OH  TYR D 138     127.859  99.794  31.969  1.00 39.78      DS4
ATOM  37139  C   TYR D 138     133.831 101.292  30.791  1.00 29.70      DS4
ATOM  37140  O   TYR D 138     134.333 102.275  31.341  1.00 29.70      DS4
ATOM  37141  N   ARG D 139     132.962 101.405  29.787  1.00 47.15      DS4
ATOM  37142  CA  ARG D 139     132.635 102.724  29.251  1.00 47.15      DS4
ATOM  37143  CB  ARG D 139     132.494 102.672  27.743  1.00 52.71      DS4
ATOM  37144  CG  ARG D 139     131.936 103.961  27.180  1.00 52.71      DS4
ATOM  37145  CD  ARG D 139     131.771 103.882  25.682  1.00 52.71      DS4
ATOM  37146  NE  ARG D 139     133.048 103.662  25.018  1.00 52.71      DS4
ATOM  37147  CZ  ARG D 139     133.183 103.569  23.705  1.00 52.71      DS4
ATOM  37148  NH1 ARG D 139     132.114 103.679  22.926  1.00 52.71      DS4
ATOM  37149  NH2 ARG D 139     134.381 103.371  23.177  1.00 52.71      DS4
ATOM  37150  C   ARG D 139     131.386 103.382  29.797  1.00 47.15      DS4
ATOM  37151  O   ARG D 139     130.279 103.019  29.410  1.00 47.15      DS4
ATOM  37152  N   VAL D 140     131.567 104.385  30.653  1.00 34.27      DS4
ATOM  37153  CA  VAL D 140     130.442 105.095  31.247  1.00 34.27      DS4
ATOM  37154  CB  VAL D 140     130.910 106.086  32.317  1.00 70.71      DS4
ATOM  37155  CG1 VAL D 140     129.721 106.585  33.109  1.00 70.71      DS4
ATOM  37156  CG2 VAL D 140     131.930 105.430  33.222  1.00 70.71      DS4
ATOM  37157  C   VAL D 140     129.685 105.887  30.196  1.00 34.27      DS4
ATOM  37158  O   VAL D 140     130.287 106.647  29.434  1.00 34.27      DS4
ATOM  37159  N   ARG D 141     128.368 105.698  30.148  1.00 35.91      DS4
ATOM  37160  CA  ARG D 141     127.534 106.433  29.208  1.00 35.91      DS4
ATOM  37161  CB  ARG D 141     126.409 105.553  28.670  1.00108.13      DS4
ATOM  37162  CG  ARG D 141     126.896 104.494  27.718  1.00108.13      DS4
ATOM  37163  CD  ARG D 141     125.767 103.982  26.863  1.00108.13      DS4
ATOM  37164  NE  ARG D 141     124.666 103.470  27.672  1.00108.13      DS4
ATOM  37165  CZ  ARG D 141     123.559 102.932  27.168  1.00108.13      DS4
ATOM  37166  NH1 ARG D 141     123.404 102.835  25.854  1.00108.13      DS4
ATOM  37167  NH2 ARG D 141     122.605 102.491  27.977  1.00108.13      DS4
ATOM  37168  C   ARG D 141     126.956 107.640  29.933  1.00 35.91      DS4
ATOM  37169  O   ARG D 141     127.155 107.801  31.126  1.00 35.91      DS4
ATOM  37170  N   PRO D 142     126.249 108.519  29.219  1.00 60.97      DS4
ATOM  37171  CD  PRO D 142     126.223 108.720  27.767  1.00 54.63      DS4
ATOM  37172  CA  PRO D 142     125.684 109.685  29.899  1.00 60.97      DS4
ATOM  37173  CB  PRO D 142     125.428 110.660  28.756  1.00 54.63      DS4
ATOM  37174  CG  PRO D 142     126.355 110.198  27.686  1.00 54.63      DS4
ATOM  37175  C   PRO D 142     124.394 109.333  30.631  1.00 60.97      DS4
ATOM  37176  O   PRO D 142     123.463 108.790  30.038  1.00 60.97      DS4
ATOM  37177  N   GLY D 143     124.340 109.645  31.917  1.00 64.40      DS4
ATOM  37178  CA  GLY D 143     123.141 109.360  32.672  1.00 64.40      DS4
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ATOM  37179  C   GLY D 143     123.352 108.338  33.763  1.00 64.40      DS4
ATOM  37180  O   GLY D 143     122.514 108.189  34.653  1.00 64.40      DS4
ATOM  37181  N   ASP D 144     124.467 107.625  33.706  1.00 54.64      DS4
ATOM  37182  CA  ASP D 144     124.730 106.620  34.721  1.00 54.64      DS4
ATOM  37183  CB  ASP D 144     125.809 105.642  34.252  1.00 75.52      DS4
ATOM  37184  CG  ASP D 144     125.517 105.059  32.890  1.00 75.52      DS4
ATOM  37185  OD1 ASP D 144     124.342 104.725  32.617  1.00 75.52      DS4
ATOM  37186  OD2 ASP D 144     126.472 104.925  32.097  1.00 75.52      DS4
ATOM  37187  C   ASP D 144     125.193 107.277  36.009  1.00 54.64      DS4
ATOM  37188  O   ASP D 144     125.902 108.285  35.975  1.00 54.64      DS4
ATOM  37189  N   GLU D 145     124.766 106.719  37.140  1.00 29.36      DS4
ATOM  37190  CA  GLU D 145     125.193 107.222  38.440  1.00 29.36      DS4
ATOM  37191  CB  GLU D 145     124.035 107.204  39.448  1.00201.26      DS4
ATOM  37192  CG  GLU D 145     123.252 105.898  39.515  1.00201.26      DS4
ATOM  37193  CD  GLU D 145     122.204 105.894  40.624  1.00201.26      DS4
ATOM  37194  OE1 GLU D 145     122.587 105.850  41.812  1.00201.26      DS4
ATOM  37195  OE2 GLU D 145     120.995 105.940  40.310  1.00201.26      DS4
ATOM  37196  C   GLU D 145     126.305 106.278  38.876  1.00 29.36      DS4
ATOM  37197  O   GLU D 145     126.171 105.062  38.766  1.00 29.36      DS4
ATOM  37198  N   ILE D 146     127.416 106.824  39.340  1.00 27.19      DS4
ATOM  37199  CA  ILE D 146     128.528 105.979  39.759  1.00 27.19      DS4
ATOM  37200  CB  ILE D 146     129.837 106.411  39.102  1.00 30.92      DS4
ATOM  37201  CG2 ILE D 146     130.968 105.516  39.583  1.00 30.92      DS4
ATOM  37202  CG1 ILE D 146     129.704 106.344  37.582  1.00 30.92      DS4
ATOM  37203  CD1 ILE D 146     128.638 107.253  37.004  1.00 30.92      DS4
ATOM  37204  C   ILE D 146     128.709 106.054  41.263  1.00 27.19      DS4
ATOM  37205  O   ILE D 146     129.383 106.950  41.770  1.00 27.19      DS4
ATOM  37206  N   ALA D 147     128.117 105.106  41.978  1.00 50.93      DS4
ATOM  37207  CA  ALA D 147     128.202 105.113  43.428  1.00 50.93      DS4
ATOM  37208  CB  ALA D 147     126.944 104.487  44.023  1.00201.26      DS4
ATOM  37209  C   ALA D 147     129.434 104.411  43.963  1.00 50.93      DS4
ATOM  37210  O   ALA D 147     130.299 103.979  43.205  1.00 50.93      DS4
ATOM  37211  N   VAL D 148     129.503 104.315  45.286  1.00 68.37      DS4
ATOM  37212  CA  VAL D 148     130.604 103.650  45.960  1.00 68.37      DS4
ATOM  37213  CB  VAL D 148     131.237 104.571  47.020  1.00 70.75      DS4
ATOM  37214  CG1 VAL D 148     132.222 103.798  47.874  1.00 70.75      DS4
ATOM  37215  CG2 VAL D 148     131.952 105.719  46.325  1.00 70.75      DS4
ATOM  37216  C   VAL D 148     130.065 102.380  46.608  1.00 68.37      DS4
ATOM  37217  O   VAL D 148     128.924 102.336  47.061  1.00 68.37      DS4
ATOM  37218  N   ALA D 149     130.888 101.341  46.624  1.00 71.85      DS4
ATOM  37219  CA  ALA D 149     130.490 100.067  47.192  1.00 71.85      DS4
ATOM  37220  CB  ALA D 149     131.668  99.113  47.186  1.00117.44      DS4
ATOM  37221  C   ALA D 149     129.958 100.222  48.605  1.00 71.85      DS4
ATOM  37222  O   ALA D 149     130.700 100.583  49.513  1.00 71.85      DS4
ATOM  37223  N   GLU D 150     128.667  99.949  48.784  1.00 43.21      DS4
ATOM  37224  CA  GLU D 150     128.042 100.043  50.095  1.00 43.21      DS4
ATOM  37225  CB  GLU D 150     126.704  99.299  50.112  1.00153.30      DS4
ATOM  37226  CG  GLU D 150     125.700  99.808  49.092  1.00153.30      DS4
ATOM  37227  CD  GLU D 150     126.149  99.559  47.666  1.00153.30      DS4
ATOM  37228  OE1 GLU D 150     126.209  98.379  47.259  1.00153.30      DS4
ATOM  37229  OE2 GLU D 150     126.452 100.542  46.953  1.00153.30      DS4
ATOM  37230  C   GLU D 150     128.992  99.413  51.092  1.00 43.21      DS4
ATOM  37231  O   GLU D 150     129.606 100.100  51.901  1.00 43.21      DS4
ATOM  37232  N   LYS D 151     129.141  98.101  51.006  1.00 60.46      DS4
ATOM  37233  CA  LYS D 151     130.022  97.401  51.917  1.00 60.46      DS4
ATOM  37234  CB  LYS D 151     130.239  95.970  51.433  1.00140.97      DS4
ATOM  37235  CG  LYS D 151     128.953  95.192  51.205  1.00140.97      DS4
ATOM  37236  CD  LYS D 151     128.199  95.684  49.974  1.00140.97      DS4
ATOM  37237  CE  LYS D 151     126.949  94.849  49.720  1.00140.97      DS4
ATOM  37238  NZ  LYS D 151     126.208  95.291  48.506  1.00140.97      DS4
ATOM  37239  C   LYS D 151     131.367  98.119  52.047  1.00 60.46      DS4
ATOM  37240  O   LYS D 151     132.049  97.991  53.061  1.00 60.46      DS4
ATOM  37241  N   SER D 152     131.740  98.892  51.032  1.00 44.37      DS4
ATOM  37242  CA  SER D 152     133.018  99.595  51.054  1.00 44.37      DS4
ATOM  37243  CB  SER D 152     133.641  99.624  49.659  1.00 84.52      DS4
ATOM  37244  OG  SER D 152     133.939  98.324  49.192  1.00 84.52      DS4
ATOM  37245  C   SER D 152     132.923 101.017  51.552  1.00 44.37      DS4
ATOM  37246  O   SER D 152     133.918 101.567  52.013  1.00 44.37      DS4
ATOM  37247  N   ARG D 153     131.735 101.610  51.452  1.00 69.62      DS4
ATOM  37248  CA  ARG D 153     131.503 102.996  51.870  1.00 69.62      DS4
ATOM  37249  CB  ARG D 153     130.001 103.294  51.908  1.00173.67      DS4
ATOM  37250  CG  ARG D 153     129.363 103.395  50.535  1.00173.67      DS4
ATOM  37251  CD  ARG D 153     127.860 103.584  50.628  1.00173.67      DS4
ATOM  37252  NE  ARG D 153     127.234 102.502  51.381  1.00173.67      DS4
ATOM  37253  CZ  ARG D 153     125.931 102.237  51.375  1.00173.67      DS4
ATOM  37254  NH1 ARG D 153     125.104 102.979  50.649  1.00173.67      DS4
ATOM  37255  NH2 ARG D 153     125.456 101.229  52.097  1.00173.67      DS4
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ATOM  37256  C   ARG D 153     132.123 103.363  53.208  1.00 69.62       DS4
ATOM  37257  O   ARG D 153     132.313 104.541  53.503  1.00 69.62       DS4
ATOM  37258  N   ASN D 154     132.449 102.352  54.006  1.00 82.16       DS4
ATOM  37259  CA  ASN D 154     133.039 102.566  55.317  1.00 82.16       DS4
ATOM  37260  CB  ASN D 154     132.423 101.594  56.322  1.00201.23       DS4
ATOM  37261  CG  ASN D 154     130.921 101.760  56.441  1.00201.23       DS4
ATOM  37262  OD1 ASN D 154     130.435 102.792  56.907  1.00201.23       DS4
ATOM  37263  ND2 ASN D 154     130.177 100.746  56.011  1.00201.23       DS4
ATOM  37264  C   ASN D 154     134.551 102.401  55.309  1.00 82.16       DS4
ATOM  37265  O   ASN D 154     135.197 102.539  56.343  1.00 82.16       DS4
ATOM  37266  N   LEU D 155     135.117 102.109  54.143  1.00 61.48       DS4
ATOM  37267  CA  LEU D 155     136.563 101.927  54.021  1.00 61.48       DS4
ATOM  37268  CB  LEU D 155     136.916 101.411  52.624  1.00 94.86       DS4
ATOM  37269  CG  LEU D 155     136.586  99.941  52.360  1.00 94.86       DS4
ATOM  37270  CD1 LEU D 155     136.857  99.607  50.913  1.00 94.86       DS4
ATOM  37271  CD2 LEU D 155     137.426  99.060  53.269  1.00 94.86       DS4
ATOM  37272  C   LEU D 155     137.366 103.194  54.320  1.00 61.48       DS4
ATOM  37273  O   LEU D 155     137.039 104.279  53.839  1.00 61.48       DS4
ATOM  37274  N   GLU D 156     138.426 103.038  55.108  1.00 63.51       DS4
ATOM  37275  CA  GLU D 156     139.275 104.158  55.491  1.00 63.51       DS4
ATOM  37276  CB  GLU D 156     140.542 103.661  56.178  1.00165.62       DS4
ATOM  37277  CG  GLU D 156     141.371 104.780  56.779  1.00165.62       DS4
ATOM  37278  CD  GLU D 156     142.797 104.363  57.054  1.00165.62       DS4
ATOM  37279  OE1 GLU D 156     143.576 104.239  56.084  1.00165.62       DS4
ATOM  37280  OE2 GLU D 156     143.139 104.151  58.237  1.00165.62       DS4
ATOM  37281  C   GLU D 156     139.673 105.005  54.296  1.00 63.51       DS4
ATOM  37282  O   GLU D 156     139.622 106.239  54.353  1.00 63.51       DS4
ATOM  37283  N   LEU D 157     140.078 104.342  53.215  1.00 57.63       DS4
ATOM  37284  CA  LEU D 157     140.492 105.051  52.012  1.00 57.63       DS4
ATOM  37285  CB  LEU D 157     140.958 104.064  50.943  1.00 84.46       DS4
ATOM  37286  CG  LEU D 157     142.071 104.584  50.025  1.00 84.46       DS4
ATOM  37287  CD1 LEU D 157     142.303 103.600  48.883  1.00 84.46       DS4
ATOM  37288  CD2 LEU D 157     141.702 105.955  49.478  1.00 84.46       DS4
ATOM  37289  C   LEU D 157     139.334 105.888  51.473  1.00 57.63       DS4
ATOM  37290  O   LEU D 157     139.470 107.094  51.258  1.00 57.63       DS4
ATOM  37291  N   ILE D 158     138.195 105.241  51.253  1.00 49.82       DS4
ATOM  37292  CA  ILE D 158     137.023 105.938  50.753  1.00 49.82       DS4
ATOM  37293  CB  ILE D 158     135.804 105.006  50.657  1.00110.06       DS4
ATOM  37294  CG2 ILE D 158     134.626 105.753  50.062  1.00110.06       DS4
ATOM  37295  CG1 ILE D 158     136.132 103.808  49.773  1.00110.06       DS4
ATOM  37296  CD1 ILE D 158     134.969 102.866  49.590  1.00110.06       DS4
ATOM  37297  C   ILE D 158     136.698 107.059  51.722  1.00 49.82       DS4
ATOM  37298  O   ILE D 158     136.207 108.117  51.324  1.00 49.82       DS4
ATOM  37299  N   ARG D 159     136.976 106.819  53.000  1.00 62.90       DS4
ATOM  37300  CA  ARG D 159     136.726 107.812  54.035  1.00 62.90       DS4
ATOM  37301  CB  ARG D 159     137.200 107.298  55.398  1.00201.26       DS4
ATOM  37302  CG  ARG D 159     136.320 106.224  56.015  1.00201.26       DS4
ATOM  37303  CD  ARG D 159     134.980 106.794  56.458  1.00201.26       DS4
ATOM  37304  NE  ARG D 159     134.143 105.786  57.105  1.00201.26       DS4
ATOM  37305  CZ  ARG D 159     132.951 106.035  57.642  1.00201.26       DS4
ATOM  37306  NH1 ARG D 159     132.451 107.263  57.611  1.00201.26       DS4
ATOM  37307  NH2 ARG D 159     132.259 105.054  58.208  1.00201.26       DS4
ATOM  37308  C   ARG D 159     137.451 109.109  53.705  1.00 62.90       DS4
ATOM  37309  O   ARG D 159     136.841 110.060  53.210  1.00 62.90       DS4
ATOM  37310  N   GLN D 160     138.754 109.136  53.976  1.00 55.76       DS4
ATOM  37311  CA  GLN D 160     139.572 110.317  53.721  1.00 55.76       DS4
ATOM  37312  CB  GLN D 160     141.049 109.946  53.689  1.00118.90       DS4
ATOM  37313  CG  GLN D 160     141.548 109.210  54.902  1.00118.90       DS4
ATOM  37314  CD  GLN D 160     143.004 108.832  54.753  1.00118.90       DS4
ATOM  37315  OE1 GLN D 160     143.853 109.692  54.524  1.00118.90       DS4
ATOM  37316  NE2 GLN D 160     143.302 107.540  54.876  1.00118.90       DS4
ATOM  37317  C   GLN D 160     139.221 110.962  52.390  1.00 55.76       DS4
ATOM  37318  O   GLN D 160     138.903 112.155  52.317  1.00 55.76       DS4
ATOM  37319  N   ASN D 161     139.292 110.154  51.339  1.00 64.11       DS4
ATOM  37320  CA  ASN D 161     139.023 110.599  49.982  1.00 64.11       DS4
ATOM  37321  CB  ASN D 161     139.082 109.406  49.035  1.00 91.28       DS4
ATOM  37322  CG  ASN D 161     140.497 108.986  48.729  1.00 91.28       DS4
ATOM  37323  OD1 ASN D 161     141.360 108.981  49.608  1.00 91.28       DS4
ATOM  37324  ND2 ASN D 161     140.746 108.624  47.477  1.00 91.28       DS4
ATOM  37325  C   ASN D 161     137.728 111.361  49.763  1.00 64.11       DS4
ATOM  37326  O   ASN D 161     137.751 112.563  49.494  1.00 64.11       DS4
ATOM  37327  N   LEU D 162     136.596 110.677  49.872  1.00 71.08       DS4
ATOM  37328  CA  LEU D 162     135.336 111.358  49.639  1.00 71.08       DS4
ATOM  37329  CB  LEU D 162     134.173 110.368  49.659  1.00107.20       DS4
ATOM  37330  CG  LEU D 162     133.011 110.849  48.782  1.00107.20       DS4
ATOM  37331  CD1 LEU D 162     132.294 109.664  48.179  1.00107.20       DS4
ATOM  37332  CD2 LEU D 162     132.065 111.707  49.593  1.00107.20       DS4
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ATOM  37333  C   LEU D 162     135.133 112.467  50.658  1.00 71.08      DS4
ATOM  37334  O   LEU D 162     134.289 113.343  50.468  1.00 71.08      DS4
ATOM  37335  N   GLU D 163     135.915 112.431  51.736  1.00 78.67      DS4
ATOM  37336  CA  GLU D 163     135.833 113.467  52.760  1.00 78.67      DS4
ATOM  37337  CB  GLU D 163     136.613 113.069  54.015  1.00201.26      DS4
ATOM  37338  CG  GLU D 163     136.900 114.239  54.961  1.00201.26      DS4
ATOM  37339  CD  GLU D 163     135.640 114.917  55.482  1.00201.26      DS4
ATOM  37340  OE1 GLU D 163     135.759 115.978  56.133  1.00201.26      DS4
ATOM  37341  OE2 GLU D 163     134.531 114.390  55.249  1.00201.26      DS4
ATOM  37342  C   GLU D 163     136.435 114.733  52.176  1.00 78.67      DS4
ATOM  37343  O   GLU D 163     135.739 115.729  51.979  1.00 78.67      DS4
ATOM  37344  N   ALA D 164     137.732 114.684  51.888  1.00 73.16      DS4
ATOM  37345  CA  ALA D 164     138.433 115.826  51.312  1.00 73.16      DS4
ATOM  37346  CB  ALA D 164     139.830 115.404  50.891  1.00 76.02      DS4
ATOM  37347  C   ALA D 164     137.671 116.412  50.113  1.00 73.16      DS4
ATOM  37348  O   ALA D 164     137.980 117.506  49.636  1.00 73.16      DS4
ATOM  37349  N   MET D 165     136.670 115.676  49.640  1.00 61.07      DS4
ATOM  37350  CA  MET D 165     135.853 116.090  48.509  1.00 61.07      DS4
ATOM  37351  CB  MET D 165     135.153 114.875  47.899  1.00 96.26      DS4
ATOM  37352  CG  MET D 165     135.980 114.162  46.857  1.00 96.26      DS4
ATOM  37353  SD  MET D 165     136.498 115.325  45.588  1.00 96.26      DS4
ATOM  37354  CE  MET D 165     134.934 115.718  44.841  1.00 96.26      DS4
ATOM  37355  C   MET D 165     134.813 117.156  48.832  1.00 61.07      DS4
ATOM  37356  O   MET D 165     134.007 117.524  47.975  1.00 61.07      DS4
ATOM  37357  N   LYS D 166     134.805 117.641  50.066  1.00 68.13      DS4
ATOM  37358  CA  LYS D 166     133.860 118.687  50.429  1.00 68.13      DS4
ATOM  37359  CB  LYS D 166     133.573 118.664  51.932  1.00126.52      DS4
ATOM  37360  CG  LYS D 166     132.785 117.452  52.399  1.00126.52      DS4
ATOM  37361  CD  LYS D 166     132.680 117.410  53.916  1.00126.52      DS4
ATOM  37362  CE  LYS D 166     131.960 116.153  54.390  1.00126.52      DS4
ATOM  37363  NZ  LYS D 166     131.987 116.019  55.877  1.00126.52      DS4
ATOM  37364  C   LYS D 166     134.518 120.003  50.037  1.00 68.13      DS4
ATOM  37365  O   LYS D 166     135.681 120.236  50.364  1.00 68.13      DS4
ATOM  37366  N   GLY D 167     133.787 120.848  49.316  1.00171.26      DS4
ATOM  37367  CA  GLY D 167     134.336 122.129  48.901  1.00171.26      DS4
ATOM  37368  C   GLY D 167     134.877 122.120  47.485  1.00171.26      DS4
ATOM  37369  O   GLY D 167     134.777 123.116  46.766  1.00171.26      DS4
ATOM  37370  N   ARG D 168     135.459 120.993  47.089  1.00 86.46      DS4
ATOM  37371  CA  ARG D 168     136.015 120.841  45.750  1.00 86.46      DS4
ATOM  37372  CB  ARG D 168     136.994 119.661  45.729  1.00148.65      DS4
ATOM  37373  CG  ARG D 168     138.206 119.842  46.640  1.00148.65      DS4
ATOM  37374  CD  ARG D 168     139.102 118.605  46.662  1.00148.65      DS4
ATOM  37375  NE  ARG D 168     139.478 118.162  45.320  1.00148.65      DS4
ATOM  37376  CZ  ARG D 168     140.286 117.137  45.063  1.00148.65      DS4
ATOM  37377  NH1 ARG D 168     140.817 116.437  46.058  1.00148.65      DS4
ATOM  37378  NH2 ARG D 168     140.557 116.801  43.808  1.00148.65      DS4
ATOM  37379  C   ARG D 168     134.892 120.609  44.736  1.00 86.46      DS4
ATOM  37380  O   ARG D 168     134.017 119.771  44.957  1.00 86.46      DS4
ATOM  37381  N   LYS D 169     134.903 121.358  43.635  1.00 70.28      DS4
ATOM  37382  CA  LYS D 169     133.876 121.192  42.614  1.00 70.28      DS4
ATOM  37383  CB  LYS D 169     133.553 122.524  41.944  1.00107.41      DS4
ATOM  37384  CG  LYS D 169     132.699 123.424  42.803  1.00107.41      DS4
ATOM  37385  CD  LYS D 169     132.071 124.543  41.994  1.00107.41      DS4
ATOM  37386  CE  LYS D 169     131.081 125.325  42.843  1.00107.41      DS4
ATOM  37387  NZ  LYS D 169     130.410 126.402  42.072  1.00107.41      DS4
ATOM  37388  C   LYS D 169     134.314 120.181  41.566  1.00 70.28      DS4
ATOM  37389  O   LYS D 169     135.468 119.741  41.555  1.00 70.28      DS4
ATOM  37390  N   VAL D 170     133.391 119.813  40.683  1.00 88.21      DS4
ATOM  37391  CA  VAL D 170     133.698 118.840  39.647  1.00 88.21      DS4
ATOM  37392  CB  VAL D 170     132.799 117.592  39.782  1.00 65.61      DS4
ATOM  37393  CG1 VAL D 170     131.437 117.850  39.155  1.00 65.61      DS4
ATOM  37394  CG2 VAL D 170     133.474 116.408  39.139  1.00 65.61      DS4
ATOM  37395  C   VAL D 170     133.534 119.418  38.243  1.00 88.21      DS4
ATOM  37396  O   VAL D 170     132.961 120.495  38.065  1.00 88.21      DS4
ATOM  37397  N   GLY D 171     134.047 118.693  37.254  1.00 37.01      DS4
ATOM  37398  CA  GLY D 171     133.948 119.132  35.876  1.00 37.01      DS4
ATOM  37399  C   GLY D 171     132.506 119.349  35.472  1.00 37.01      DS4
ATOM  37400  O   GLY D 171     131.613 118.681  35.989  1.00 37.01      DS4
ATOM  37401  N   PRO D 172     132.248 120.273  34.537  1.00 48.22      DS4
ATOM  37402  CD  PRO D 172     133.256 121.050  33.796  1.00 61.28      DS4
ATOM  37403  CA  PRO D 172     130.901 120.587  34.058  1.00 48.22      DS4
ATOM  37404  CB  PRO D 172     131.142 121.740  33.085  1.00 61.28      DS4
ATOM  37405  CG  PRO D 172     132.496 121.449  32.553  1.00 61.28      DS4
ATOM  37406  C   PRO D 172     130.132 119.438  33.415  1.00 48.22      DS4
ATOM  37407  O   PRO D 172     128.934 119.563  33.159  1.00 48.22      DS4
ATOM  37408  N   TRP D 173     130.801 118.319  33.149  1.00 44.53      DS4
ATOM  37409  CA  TRP D 173     130.116 117.185  32.527  1.00 44.53      DS4
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ATOM  37410  CB  TRP D 173     130.989 116.544  31.430  1.00 50.50      DS4
ATOM  37411  CG  TRP D 173     132.154 115.720  31.904  1.00 50.50      DS4
ATOM  37412  CD2 TRP D 173     133.459 116.193  32.244  1.00 50.50      DS4
ATOM  37413  CE2 TRP D 173     134.228 115.069  32.614  1.00 50.50      DS4
ATOM  37414  CE3 TRP D 173     134.055 117.456  32.270  1.00 50.50      DS4
ATOM  37415  CD1 TRP D 173     132.181 114.371  32.079  1.00 50.50      DS4
ATOM  37416  NE1 TRP D 173     133.424 113.968  32.506  1.00 50.50      DS4
ATOM  37417  CZ2 TRP D 173     135.563 115.171  33.008  1.00 50.50      DS4
ATOM  37418  CZ3 TRP D 173     135.382 117.561  32.661  1.00 50.50      DS4
ATOM  37419  CH2 TRP D 173     136.123 116.424  33.023  1.00 50.50      DS4
ATOM  37420  C   TRP D 173     129.789 116.181  33.597  1.00 44.53      DS4
ATOM  37421  O   TRP D 173     129.080 115.208  33.358  1.00 44.53      DS4
ATOM  37422  N   LEU D 174     130.307 116.451  34.788  1.00 41.26      DS4
ATOM  37423  CA  LEU D 174     130.102 115.593  35.930  1.00 41.26      DS4
ATOM  37424  CB  LEU D 174     131.419 115.397  36.662  1.00 32.26      DS4
ATOM  37425  CG  LEU D 174     132.365 114.533  35.844  1.00 32.26      DS4
ATOM  37426  CD1 LEU D 174     133.587 114.181  36.655  1.00 32.26      DS4
ATOM  37427  CD2 LEU D 174     131.635 113.271  35.442  1.00 32.26      DS4
ATOM  37428  C   LEU D 174     129.056 116.109  36.893  1.00 41.26      DS4
ATOM  37429  O   LEU D 174     128.281 117.005  36.571  1.00 41.26      DS4
ATOM  37430  N   SER D 175     129.057 115.529  38.089  1.00 62.72      DS4
ATOM  37431  CA  SER D 175     128.116 115.870  39.149  1.00 62.72      DS4
ATOM  37432  CB  SER D 175     126.687 115.848  38.609  1.00 46.78      DS4
ATOM  37433  OG  SER D 175     125.777 115.395  39.593  1.00 46.78      DS4
ATOM  37434  C   SER D 175     128.260 114.810  40.220  1.00 62.72      DS4
ATOM  37435  O   SER D 175     128.212 113.621  39.917  1.00 62.72      DS4
ATOM  37436  N   LEU D 176     128.453 115.217  41.466  1.00 87.85      DS4
ATOM  37437  CA  LEU D 176     128.574 114.223  42.518  1.00 87.85      DS4
ATOM  37438  CB  LEU D 176     130.038 113.847  42.764  1.00 62.36      DS4
ATOM  37439  CG  LEU D 176     130.784 114.575  43.884  1.00 62.36      DS4
ATOM  37440  CD1 LEU D 176     131.870 113.677  44.462  1.00 62.36      DS4
ATOM  37441  CD2 LEU D 176     131.360 115.862  43.343  1.00 62.36      DS4
ATOM  37442  C   LEU D 176     127.955 114.664  43.826  1.00 87.85      DS4
ATOM  37443  O   LEU D 176     128.150 115.795  44.268  1.00 87.85      DS4
ATOM  37444  N   ASP D 177     127.199 113.756  44.433  1.00 73.90      DS4
ATOM  37445  CA  ASP D 177     126.555 114.010  45.712  1.00 73.90      DS4
ATOM  37446  CB  ASP D 177     125.211 113.277  45.778  1.00147.81      DS4
ATOM  37447  CG  ASP D 177     124.718 113.080  47.201  1.00147.81      DS4
ATOM  37448  OD1 ASP D 177     125.294 112.239  47.917  1.00147.81      DS4
ATOM  37449  OD2 ASP D 177     123.758 113.767  47.605  1.00147.81      DS4
ATOM  37450  C   ASP D 177     127.499 113.487  46.782  1.00 73.90      DS4
ATOM  37451  O   ASP D 177     127.499 112.296  47.088  1.00 73.90      DS4
ATOM  37452  N   VAL D 178     128.308 114.379  47.343  1.00 39.56      DS4
ATOM  37453  CA  VAL D 178     129.270 113.978  48.360  1.00 39.56      DS4
ATOM  37454  CB  VAL D 178     130.030 115.189  48.897  1.00 61.87      DS4
ATOM  37455  CG1 VAL D 178     131.207 114.730  49.737  1.00 61.87      DS4
ATOM  37456  CG2 VAL D 178     130.508 116.046  47.737  1.00 61.87      DS4
ATOM  37457  C   VAL D 178     128.593 113.249  49.518  1.00 39.56      DS4
ATOM  37458  O   VAL D 178     129.251 112.572  50.314  1.00 39.56      DS4
ATOM  37459  N   GLU D 179     127.272 113.383  49.590  1.00123.34      DS4
ATOM  37460  CA  GLU D 179     126.482 112.743  50.634  1.00123.34      DS4
ATOM  37461  CB  GLU D 179     125.034 113.244  50.585  1.00201.26      DS4
ATOM  37462  CG  GLU D 179     124.878 114.759  50.612  1.00201.26      DS4
ATOM  37463  CD  GLU D 179     125.325 115.379  51.921  1.00201.26      DS4
ATOM  37464  OE1 GLU D 179     126.520 115.254  52.267  1.00201.26      DS4
ATOM  37465  OE2 GLU D 179     124.479 115.995  52.605  1.00201.26      DS4
ATOM  37466  C   GLU D 179     126.499 111.227  50.451  1.00123.34      DS4
ATOM  37467  O   GLU D 179     127.399 110.544  50.940  1.00123.34      DS4
ATOM  37468  N   GLY D 180     125.497 110.713  49.741  1.00161.32      DS4
ATOM  37469  CA  GLY D 180     125.397 109.285  49.498  1.00161.32      DS4
ATOM  37470  C   GLY D 180     126.564 108.728  48.709  1.00161.32      DS4
ATOM  37471  O   GLY D 180     126.614 107.531  48.420  1.00161.32      DS4
ATOM  37472  N   MET D 181     127.504 109.600  48.358  1.00 94.54      DS4
ATOM  37473  CA  MET D 181     128.687 109.211  47.604  1.00 94.54      DS4
ATOM  37474  CB  MET D 181     129.402 108.063  48.320  1.00 68.31      DS4
ATOM  37475  CG  MET D 181     129.701 108.383  49.781  1.00 68.31      DS4
ATOM  37476  SD  MET D 181     130.571 107.095  50.728  1.00 68.31      DS4
ATOM  37477  CE  MET D 181     132.202 107.827  50.961  1.00 68.31      DS4
ATOM  37478  C   MET D 181     128.342 108.819  46.169  1.00 94.54      DS4
ATOM  37479  O   MET D 181     129.053 108.034  45.547  1.00 94.54      DS4
ATOM  37480  N   LYS D 182     127.243 109.370  45.657  1.00 56.99      DS4
ATOM  37481  CA  LYS D 182     126.798 109.117  44.289  1.00 56.99      DS4
ATOM  37482  CB  LYS D 182     125.320 109.470  44.121  1.00128.77      DS4
ATOM  37483  CG  LYS D 182     124.347 108.528  44.782  1.00128.77      DS4
ATOM  37484  CD  LYS D 182     122.924 108.989  44.510  1.00128.77      DS4
ATOM  37485  CE  LYS D 182     121.898 107.983  45.008  1.00128.77      DS4
ATOM  37486  NZ  LYS D 182     121.971 106.677  44.282  1.00128.77      DS4
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ATOM  37487  C   LYS D 182     127.607 110.008  43.355  1.00 56.99      DS4
ATOM  37488  O   LYS D 182     128.642 110.552  43.739  1.00 56.99      DS4
ATOM  37489  N   GLY D 183     127.110 110.173  42.133  1.00 78.99      DS4
ATOM  37490  CA  GLY D 183     127.788 110.996  41.151  1.00 78.99      DS4
ATOM  37491  C   GLY D 183     127.343 110.625  39.754  1.00 78.99      DS4
ATOM  37492  O   GLY D 183     127.548 109.497  39.314  1.00 78.99      DS4
ATOM  37493  N   LYS D 184     126.718 111.563  39.056  1.00 50.06      DS4
ATOM  37494  CA  LYS D 184     126.257 111.297  37.703  1.00 50.06      DS4
ATOM  37495  CB  LYS D 184     124.907 111.963  37.451  1.00102.87      DS4
ATOM  37496  CG  LYS D 184     123.729 111.240  38.053  1.00102.87      DS4
ATOM  37497  CD  LYS D 184     122.451 111.671  37.352  1.00102.87      DS4
ATOM  37498  CE  LYS D 184     121.241 110.909  37.869  1.00102.87      DS4
ATOM  37499  NZ  LYS D 184     120.011 111.184  37.061  1.00102.87      DS4
ATOM  37500  C   LYS D 184     127.233 111.726  36.608  1.00 50.06      DS4
ATOM  37501  O   LYS D 184     128.147 112.525  36.829  1.00 50.06      DS4
ATOM  37502  N   PHE D 185     127.011 111.168  35.420  1.00 45.49      DS4
ATOM  37503  CA  PHE D 185     127.811 111.425  34.228  1.00 45.49      DS4
ATOM  37504  CB  PHE D 185     128.290 110.094  33.651  1.00 35.50      DS4
ATOM  37505  CG  PHE D 185     129.301 110.235  32.560  1.00 35.50      DS4
ATOM  37506  CD1 PHE D 185     130.649 110.391  32.865  1.00 35.50      DS4
ATOM  37507  CD2 PHE D 185     128.898 110.261  31.222  1.00 35.50      DS4
ATOM  37508  CE1 PHE D 185     131.585 110.577  31.857  1.00 35.50      DS4
ATOM  37509  CE2 PHE D 185     129.822 110.448  30.211  1.00 35.50      DS4
ATOM  37510  CZ  PHE D 185     131.173 110.609  30.528  1.00 35.50      DS4
ATOM  37511  C   PHE D 185     126.827 112.091  33.273  1.00 45.49      DS4
ATOM  37512  O   PHE D 185     126.114 111.421  32.527  1.00 45.49      DS4
ATOM  37513  N   LEU D 186     126.798 113.416  33.303  1.00 40.43      DS4
ATOM  37514  CA  LEU D 186     125.858 114.196  32.501  1.00 40.43      DS4
ATOM  37515  CB  LEU D 186     125.770 115.622  33.068  1.00 71.13      DS4
ATOM  37516  CG  LEU D 186     126.368 115.932  34.451  1.00 71.13      DS4
ATOM  37517  CD1 LEU D 186     126.253 117.423  34.699  1.00 71.13      DS4
ATOM  37518  CD2 LEU D 186     125.667 115.156  35.553  1.00 71.13      DS4
ATOM  37519  C   LEU D 186     126.086 114.275  30.990  1.00 40.43      DS4
ATOM  37520  O   LEU D 186     125.129 114.219  30.207  1.00 40.43      DS4
ATOM  37521  N   ARG D 187     127.342 114.415  30.580  1.00 65.96      DS4
ATOM  37522  CA  ARG D 187     127.655 114.526  29.162  1.00 65.96      DS4
ATOM  37523  CB  ARG D 187     127.362 115.957  28.701  1.00187.30      DS4
ATOM  37524  CG  ARG D 187     127.807 116.286  27.287  1.00187.30      DS4
ATOM  37525  CD  ARG D 187     126.869 115.703  26.245  1.00187.30      DS4
ATOM  37526  NE  ARG D 187     126.795 114.248  26.298  1.00187.30      DS4
ATOM  37527  CZ  ARG D 187     126.071 113.514  25.460  1.00187.30      DS4
ATOM  37528  NH1 ARG D 187     125.360 114.102  24.507  1.00187.30      DS4
ATOM  37529  NH2 ARG D 187     126.056 112.195  25.570  1.00187.30      DS4
ATOM  37530  C   ARG D 187     129.110 114.189  28.866  1.00 65.96      DS4
ATOM  37531  O   ARG D 187     129.963 114.224  29.756  1.00 65.96      DS4
ATOM  37532  N   LEU D 188     129.390 113.847  27.612  1.00 27.29      DS4
ATOM  37533  CA  LEU D 188     130.764 113.554  27.206  1.00 27.29      DS4
ATOM  37534  CB  LEU D 188     130.793 112.862  25.838  1.00 52.31      DS4
ATOM  37535  CG  LEU D 188     130.311 111.412  25.744  1.00 52.31      DS4
ATOM  37536  CD1 LEU D 188     129.944 111.095  24.310  1.00 52.31      DS4
ATOM  37537  CD2 LEU D 188     131.390 110.462  26.253  1.00 52.31      DS4
ATOM  37538  C   LEU D 188     131.478 114.900  27.114  1.00 27.29      DS4
ATOM  37539  O   LEU D 188     131.082 115.766  26.336  1.00 27.29      DS4
ATOM  37540  N   PRO D 189     132.533 115.094  27.908  1.00 34.78      DS4
ATOM  37541  CD  PRO D 189     133.262 114.055  28.642  1.00 36.76      DS4
ATOM  37542  CA  PRO D 189     133.293 116.343  27.914  1.00 34.78      DS4
ATOM  37543  CB  PRO D 189     134.446 116.025  28.854  1.00 36.76      DS4
ATOM  37544  CG  PRO D 189     134.673 114.581  28.591  1.00 36.76      DS4
ATOM  37545  C   PRO D 189     133.783 116.785  26.532  1.00 34.78      DS4
ATOM  37546  O   PRO D 189     134.219 115.958  25.736  1.00 34.78      DS4
ATOM  37547  N   ASP D 190     133.702 118.087  26.251  1.00 44.96      DS4
ATOM  37548  CA  ASP D 190     134.160 118.634  24.977  1.00 44.96      DS4
ATOM  37549  CB  ASP D 190     133.466 119.964  24.668  1.00201.26      DS4
ATOM  37550  CG  ASP D 190     132.001 119.797  24.330  1.00201.26      DS4
ATOM  37551  OD1 ASP D 190     131.697 119.095  23.342  1.00201.26      DS4
ATOM  37552  OD2 ASP D 190     131.155 120.371  25.047  1.00201.26      DS4
ATOM  37553  C   ASP D 190     135.641 118.881  25.159  1.00 44.96      DS4
ATOM  37554  O   ASP D 190     136.112 118.997  26.292  1.00 44.96      DS4
ATOM  37555  N   ARG D 191     136.380 118.954  24.057  1.00 49.87      DS4
ATOM  37556  CA  ARG D 191     137.812 119.198  24.141  1.00 49.87      DS4
ATOM  37557  CB  ARG D 191     138.409 119.463  22.762  1.00 80.47      DS4
ATOM  37558  CG  ARG D 191     139.752 120.186  22.793  1.00 80.47      DS4
ATOM  37559  CD  ARG D 191     140.745 119.535  23.751  1.00 80.47      DS4
ATOM  37560  NE  ARG D 191     142.074 120.129  23.627  1.00 80.47      DS4
ATOM  37561  CZ  ARG D 191     143.084 119.899  24.461  1.00 80.47      DS4
ATOM  37562  NH1 ARG D 191     142.929 119.086  25.499  1.00 80.47      DS4
ATOM  37563  NH2 ARG D 191     144.255 120.483  24.251  1.00 80.47      DS4
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ATOM  37564  C   ARG D 191     138.035 120.400  25.017  1.00 49.87       DS4
ATOM  37565  O   ARG D 191     138.955 120.411  25.830  1.00 49.87       DS4
ATOM  37566  N   GLU D 192     137.176 121.404  24.848  1.00 64.75       DS4
ATOM  37567  CA  GLU D 192     137.249 122.641  25.616  1.00 64.75       DS4
ATOM  37568  CB  GLU D 192     136.066 123.548  25.266  1.00200.10       DS4
ATOM  37569  CG  GLU D 192     136.124 124.170  23.872  1.00200.10       DS4
ATOM  37570  CD  GLU D 192     136.118 123.145  22.750  1.00200.10       DS4
ATOM  37571  OE1 GLU D 192     137.106 122.393  22.621  1.00200.10       DS4
ATOM  37572  OE2 GLU D 192     135.124 123.092  21.993  1.00200.10       DS4
ATOM  37573  C   GLU D 192     137.259 122.354  27.117  1.00 64.75       DS4
ATOM  37574  O   GLU D 192     138.042 122.950  27.861  1.00 64.75       DS4
ATOM  37575  N   ASP D 193     136.397 121.431  27.549  1.00 68.24       DS4
ATOM  37576  CA  ASP D 193     136.283 121.043  28.959  1.00 68.24       DS4
ATOM  37577  CB  ASP D 193     135.239 119.936  29.124  1.00 85.67       DS4
ATOM  37578  CG  ASP D 193     133.824 120.443  28.966  1.00 85.67       DS4
ATOM  37579  OD1 ASP D 193     133.423 121.327  29.752  1.00 85.67       DS4
ATOM  37580  OD2 ASP D 193     133.112 119.962  28.059  1.00 85.67       DS4
ATOM  37581  C   ASP D 193     137.595 120.563  29.561  1.00 68.24       DS4
ATOM  37582  O   ASP D 193     137.923 120.902  30.698  1.00 68.24       DS4
ATOM  37583  N   LEU D 194     138.337 119.770  28.790  1.00 34.32       DS4
ATOM  37584  CA  LEU D 194     139.609 119.212  29.236  1.00 34.32       DS4
ATOM  37585  CB  LEU D 194     139.986 118.004  28.374  1.00 45.27       DS4
ATOM  37586  CG  LEU D 194     139.130 116.740  28.509  1.00 45.27       DS4
ATOM  37587  CD1 LEU D 194     139.032 116.383  29.993  1.00 45.27       DS4
ATOM  37588  CD2 LEU D 194     137.744 116.947  27.901  1.00 45.27       DS4
ATOM  37589  C   LEU D 194     140.749 120.211  29.224  1.00 34.32       DS4
ATOM  37590  O   LEU D 194     140.847 121.054  28.339  1.00 34.32       DS4
ATOM  37591  N   ALA D 195     141.617 120.113  30.217  1.00 57.11       DS4
ATOM  37592  CA  ALA D 195     142.748 121.013  30.290  1.00 57.11       DS4
ATOM  37593  CB  ALA D 195     142.764 121.723  31.625  1.00141.52       DS4
ATOM  37594  C   ALA D 195     143.995 120.173  30.130  1.00 57.11       DS4
ATOM  37595  O   ALA D 195     144.946 120.303  30.900  1.00 57.11       DS4
ATOM  37596  N   LEU D 196     143.985 119.301  29.127  1.00 48.70       DS4
ATOM  37597  CA  LEU D 196     145.120 118.428  28.875  1.00 48.70       DS4
ATOM  37598  CB  LEU D 196     144.666 117.184  28.128  1.00 65.02       DS4
ATOM  37599  CG  LEU D 196     143.785 116.304  29.008  1.00 65.02       DS4
ATOM  37600  CD1 LEU D 196     143.054 115.281  28.167  1.00 65.02       DS4
ATOM  37601  CD2 LEU D 196     144.653 115.639  30.066  1.00 65.02       DS4
ATOM  37602  C   LEU D 196     146.197 119.130  28.088  1.00 48.70       DS4
ATOM  37603  O   LEU D 196     145.917 119.796  27.095  1.00 48.70       DS4
ATOM  37604  N   PRO D 197     147.450 118.991  28.531  1.00 45.97       DS4
ATOM  37605  CD  PRO D 197     147.780 118.092  29.648  1.00 30.29       DS4
ATOM  37606  CA  PRO D 197     148.670 119.566  27.948  1.00 45.97       DS4
ATOM  37607  CB  PRO D 197     149.696 119.332  29.039  1.00 30.29       DS4
ATOM  37608  CG  PRO D 197     149.289 117.973  29.540  1.00 30.29       DS4
ATOM  37609  C   PRO D 197     148.995 118.759  26.698  1.00 45.97       DS4
ATOM  37610  O   PRO D 197     150.138 118.358  26.464  1.00 45.97       DS4
ATOM  37611  N   VAL D 198     147.965 118.537  25.898  1.00 37.73       DS4
ATOM  37612  CA  VAL D 198     148.074 117.720  24.716  1.00 37.73       DS4
ATOM  37613  CB  VAL D 198     147.260 116.431  24.935  1.00 26.08       DS4
ATOM  37614  CG1 VAL D 198     146.870 115.783  23.589  1.00 26.08       DS4
ATOM  37615  CG2 VAL D 198     148.063 115.483  25.831  1.00 26.08       DS4
ATOM  37616  C   VAL D 198     147.622 118.382  23.438  1.00 37.73       DS4
ATOM  37617  O   VAL D 198     146.654 119.135  23.415  1.00 37.73       DS4
ATOM  37618  N   GLN D 199     148.342 118.077  22.370  1.00 28.39       DS4
ATOM  37619  CA  GLN D 199     148.036 118.590  21.057  1.00 28.39       DS4
ATOM  37620  CB  GLN D 199     149.297 119.157  20.417  1.00 88.46       DS4
ATOM  37621  CG  GLN D 199     149.047 120.371  19.559  1.00 88.46       DS4
ATOM  37622  CD  GLN D 199     148.094 120.093  18.422  1.00 88.46       DS4
ATOM  37623  OE1 GLN D 199     148.478 120.166  17.252  1.00 88.46       DS4
ATOM  37624  NE2 GLN D 199     146.843 119.773  18.753  1.00 88.46       DS4
ATOM  37625  C   GLN D 199     147.563 117.358  20.301  1.00 28.39       DS4
ATOM  37626  O   GLN D 199     148.334 116.718  19.596  1.00 28.39       DS4
ATOM  37627  N   GLU D 200     146.299 116.999  20.482  1.00 44.44       DS4
ATOM  37628  CA  GLU D 200     145.755 115.832  19.811  1.00 44.44       DS4
ATOM  37629  CB  GLU D 200     144.235 115.749  20.004  1.00109.62       DS4
ATOM  37630  CG  GLU D 200     143.475 117.025  19.693  1.00109.62       DS4
ATOM  37631  CD  GLU D 200     143.455 118.001  20.859  1.00109.62       DS4
ATOM  37632  OE1 GLU D 200     144.535 118.449  21.298  1.00109.62       DS4
ATOM  37633  OE2 GLU D 200     142.350 118.322  21.340  1.00109.62       DS4
ATOM  37634  C   GLU D 200     146.087 115.859  18.331  1.00 44.44       DS4
ATOM  37635  O   GLU D 200     146.492 114.843  17.768  1.00 44.44       DS4
ATOM  37636  N   ASN D 201     145.927 117.027  17.708  1.00 48.63       DS4
ATOM  37637  CA  ASN D 201     146.201 117.184  16.280  1.00 48.63       DS4
ATOM  37638  CB  ASN D 201     146.375 118.663  15.928  1.00131.28       DS4
ATOM  37639  CG  ASN D 201     146.135 118.946  14.456  1.00131.28       DS4
ATOM  37640  OD1 ASN D 201     145.050 118.690  13.930  1.00131.28       DS4
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ATOM  37641  ND2 ASN D 201     147.147 119.482  13.784  1.00131.28       DS4
ATOM  37642  C   ASN D 201     147.448 116.390  15.902  1.00 48.63       DS4
ATOM  37643  O   ASN D 201     147.468 115.723  14.877  1.00 48.63       DS4
ATOM  37644  N   LEU D 202     148.485 116.455  16.729  1.00 31.09       DS4
ATOM  37645  CA  LEU D 202     149.682 115.678  16.458  1.00 31.09       DS4
ATOM  37646  CB  LEU D 202     150.775 115.974  17.468  1.00 34.61       DS4
ATOM  37647  CG  LEU D 202     151.183 117.437  17.478  1.00 34.61       DS4
ATOM  37648  CD1 LEU D 202     152.326 117.657  18.449  1.00 34.61       DS4
ATOM  37649  CD2 LEU D 202     151.586 117.845  16.085  1.00 34.61       DS4
ATOM  37650  C   LEU D 202     149.275 114.228  16.597  1.00 31.09       DS4
ATOM  37651  O   LEU D 202     149.435 113.434  15.672  1.00 31.09       DS4
ATOM  37652  N   VAL D 203     148.736 113.880  17.759  1.00 44.03       DS4
ATOM  37653  CA  VAL D 203     148.300 112.512  17.990  1.00 44.03       DS4
ATOM  37654  CB  VAL D 203     147.370 112.422  19.222  1.00 35.73       DS4
ATOM  37655  CG1 VAL D 203     146.382 111.273  19.057  1.00 35.73       DS4
ATOM  37656  CG2 VAL D 203     148.208 112.206  20.475  1.00 35.73       DS4
ATOM  37657  C   VAL D 203     147.590 111.944  16.764  1.00 44.03       DS4
ATOM  37658  O   VAL D 203     147.845 110.802  16.375  1.00 44.03       DS4
ATOM  37659  N   ILE D 204     146.712 112.736  16.149  1.00 21.29       DS4
ATOM  37660  CA  ILE D 204     146.003 112.256  14.978  1.00 21.29       DS4
ATOM  37661  CB  ILE D 204     144.971 113.256  14.483  1.00 79.25       DS4
ATOM  37662  CG2 ILE D 204     144.282 112.706  13.245  1.00 79.25       DS4
ATOM  37663  CG1 ILE D 204     143.937 113.509  15.574  1.00 79.25       DS4
ATOM  37664  CD1 ILE D 204     142.874 114.525  15.186  1.00 79.25       DS4
ATOM  37665  C   ILE D 204     147.013 112.018  13.876  1.00 21.29       DS4
ATOM  37666  O   ILE D 204     147.035 110.951  13.253  1.00 21.29       DS4
ATOM  37667  N   GLU D 205     147.861 113.017  13.652  1.00 38.03       DS4
ATOM  37668  CA  GLU D 205     148.888 112.938  12.625  1.00 38.03       DS4
ATOM  37669  CB  GLU D 205     149.695 114.232  12.583  1.00 86.02       DS4
ATOM  37670  CG  GLU D 205     148.921 115.408  12.027  1.00 86.02       DS4
ATOM  37671  CD  GLU D 205     149.748 116.671  11.995  1.00 86.02       DS4
ATOM  37672  OE1 GLU D 205     149.267 117.691  11.454  1.00 86.02       DS4
ATOM  37673  OE2 GLU D 205     150.880 116.636  12.517  1.00 86.02       DS4
ATOM  37674  C   GLU D 205     149.833 111.761  12.810  1.00 38.03       DS4
ATOM  37675  O   GLU D 205     150.310 111.199  11.836  1.00 38.03       DS4
ATOM  37676  N   PHE D 206     150.093 111.383  14.056  1.00 31.11       DS4
ATOM  37677  CA  PHE D 206     151.003 110.277  14.350  1.00 31.11       DS4
ATOM  37678  CB  PHE D 206     151.333 110.240  15.838  1.00 33.98       DS4
ATOM  37679  CG  PHE D 206     152.002 108.965  16.283  1.00 33.98       DS4
ATOM  37680  CD1 PHE D 206     153.386 108.870  16.329  1.00 33.98       DS4
ATOM  37681  CD2 PHE D 206     151.244 107.872  16.688  1.00 33.98       DS4
ATOM  37682  CE1 PHE D 206     154.005 107.712  16.779  1.00 33.98       DS4
ATOM  37683  CE2 PHE D 206     151.852 106.719  17.135  1.00 33.98       DS4
ATOM  37684  CZ  PHE D 206     153.237 106.639  17.183  1.00 33.98       DS4
ATOM  37685  C   PHE D 206     150.462 108.923  13.958  1.00 31.11       DS4
ATOM  37686  O   PHE D 206     151.224 108.025  13.640  1.00 31.11       DS4
ATOM  37687  N   TYR D 207     149.155 108.749  14.024  1.00 48.41       DS4
ATOM  37688  CA  TYR D 207     148.612 107.467  13.658  1.00 48.41       DS4
ATOM  37689  CB  TYR D 207     147.332 107.186  14.436  1.00 43.33       DS4
ATOM  37690  CG  TYR D 207     147.637 106.627  15.800  1.00 43.33       DS4
ATOM  37691  CD1 TYR D 207     146.995 107.112  16.937  1.00 43.33       DS4
ATOM  37692  CE1 TYR D 207     147.321 106.624  18.213  1.00 43.33       DS4
ATOM  37693  CD2 TYR D 207     148.607 105.635  15.960  1.00 43.33       DS4
ATOM  37694  CE2 TYR D 207     148.937 105.137  17.221  1.00 43.33       DS4
ATOM  37695  CZ  TYR D 207     148.293 105.635  18.345  1.00 43.33       DS4
ATOM  37696  OH  TYR D 207     148.611 105.147  19.596  1.00 43.33       DS4
ATOM  37697  C   TYR D 207     148.381 107.445  12.171  1.00 48.41       DS4
ATOM  37698  O   TYR D 207     147.887 106.461  11.617  1.00 48.41       DS4
ATOM  37699  N   SER D 208     148.757 108.543  11.523  1.00 48.98       DS4
ATOM  37700  CA  SER D 208     148.625 108.658  10.078  1.00 48.98       DS4
ATOM  37701  CB  SER D 208     148.342 110.109   9.678  1.00122.19       DS4
ATOM  37702  OG  SER D 208     147.108 110.554  10.212  1.00122.19       DS4
ATOM  37703  C   SER D 208     149.941 108.203   9.472  1.00 48.98       DS4
ATOM  37704  O   SER D 208     150.359 108.704   8.436  1.00 48.98       DS4
ATOM  37705  N   ARG D 209     150.596 107.254  10.132  1.00201.26       DS4
ATOM  37706  CA  ARG D 209     151.877 106.743   9.661  1.00201.26       DS4
ATOM  37707  CB  ARG D 209     153.014 107.380  10.469  1.00132.39       DS4
ATOM  37708  CG  ARG D 209     154.407 107.148   9.910  1.00132.39       DS4
ATOM  37709  CD  ARG D 209     155.464 107.843  10.760  1.00132.39       DS4
ATOM  37710  NE  ARG D 209     156.791 107.806  10.145  1.00132.39       DS4
ATOM  37711  CZ  ARG D 209     157.469 106.692   9.880  1.00132.39       DS4
ATOM  37712  NH1 ARG D 209     156.948 105.511  10.177  1.00132.39       DS4
ATOM  37713  NH2 ARG D 209     158.666 106.758   9.313  1.00132.39       DS4
ATOM  37714  C   ARG D 209     151.928 105.222   9.792  1.00201.26       DS4
ATOM  37715  O   ARG D 209     152.070 104.547   8.750  1.00201.26       DS4
ATOM  37716  OXT ARG D 209     151.818 104.721  10.932  1.00132.39       DS4
TER   37716       ARG D 209                                               DS4
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ATOM  37717  CB  ASP E   5     154.594 138.051  13.737  1.00172.86      ES5
ATOM  37718  CG  ASP E   5     156.064 138.288  14.065  1.00172.86      ES5
ATOM  37719  OD1 ASP E   5     156.435 138.208  15.256  1.00172.86      ES5
ATOM  37720  OD2 ASP E   5     156.847 138.565  13.130  1.00172.86      ES5
ATOM  37721  C   ASP E   5     154.647 135.550  13.401  1.00171.70      ES5
ATOM  37722  O   ASP E   5     154.302 134.383  13.605  1.00171.70      ES5
ATOM  37723  N   ASP E   5     154.398 136.534  15.691  1.00171.70      ES5
ATOM  37724  CA  ASP E   5     154.075 136.692  14.244  1.00171.70      ES5
ATOM  37725  N   PHE E   6     155.515 135.893  12.453  1.00 58.41      ES5
ATOM  37726  CA  PHE E   6     156.142 134.911  11.574  1.00 58.41      ES5
ATOM  37727  CB  PHE E   6     157.032 135.594  10.522  1.00 53.54      ES5
ATOM  37728  CG  PHE E   6     156.280 136.360   9.474  1.00 53.54      ES5
ATOM  37729  CD1 PHE E   6     156.962 137.205   8.607  1.00 53.54      ES5
ATOM  37730  CD2 PHE E   6     154.898 136.257   9.360  1.00 53.54      ES5
ATOM  37731  CE1 PHE E   6     156.285 137.944   7.642  1.00 53.54      ES5
ATOM  37732  CE2 PHE E   6     154.204 136.992   8.397  1.00 53.54      ES5
ATOM  37733  CZ  PHE E   6     154.900 137.838   7.537  1.00 53.54      ES5
ATOM  37734  C   PHE E   6     157.008 133.898  12.305  1.00 58.41      ES5
ATOM  37735  O   PHE E   6     158.026 134.255  12.911  1.00 58.41      ES5
ATOM  37736  N   GLU E   7     156.596 132.636  12.250  1.00 62.06      ES5
ATOM  37737  CA  GLU E   7     157.387 131.574  12.838  1.00 62.06      ES5
ATOM  37738  CB  GLU E   7     156.513 130.458  13.418  1.00166.58      ES5
ATOM  37739  CG  GLU E   7     157.334 129.339  14.068  1.00166.58      ES5
ATOM  37740  CD  GLU E   7     156.483 128.206  14.618  1.00166.58      ES5
ATOM  37741  OE1 GLU E   7     157.059 127.236  15.160  1.00166.58      ES5
ATOM  37742  OE2 GLU E   7     155.240 128.281  14.509  1.00166.58      ES5
ATOM  37743  C   GLU E   7     158.166 131.051  11.639  1.00 62.06      ES5
ATOM  37744  O   GLU E   7     157.780 131.282  10.485  1.00 62.06      ES5
ATOM  37745  N   GLU E   8     159.266 130.363  11.897  1.00 73.39      ES5
ATOM  37746  CA  GLU E   8     160.052 129.843  10.802  1.00 73.39      ES5
ATOM  37747  CB  GLU E   8     161.268 130.738  10.560  1.00108.31      ES5
ATOM  37748  CG  GLU E   8     162.136 130.979  11.777  1.00108.31      ES5
ATOM  37749  CD  GLU E   8     163.396 131.751  11.434  1.00108.31      ES5
ATOM  37750  OE1 GLU E   8     163.282 132.895  10.946  1.00108.31      ES5
ATOM  37751  OE2 GLU E   8     164.503 131.210  11.647  1.00108.31      ES5
ATOM  37752  C   GLU E   8     160.489 128.403  11.010  1.00 73.39      ES5
ATOM  37753  O   GLU E   8     161.341 128.103  11.848  1.00 73.39      ES5
ATOM  37754  N   LYS E   9     159.872 127.511  10.246  1.00 63.44      ES5
ATOM  37755  CA  LYS E   9     160.204 126.105  10.297  1.00 63.44      ES5
ATOM  37756  CB  LYS E   9     158.968 125.264   9.973  1.00121.70      ES5
ATOM  37757  CG  LYS E   9     159.057 123.811  10.411  1.00121.70      ES5
ATOM  37758  CD  LYS E   9     157.697 123.119  10.310  1.00121.70      ES5
ATOM  37759  CE  LYS E   9     157.781 121.648  10.704  1.00121.70      ES5
ATOM  37760  NZ  LYS E   9     156.451 120.979  10.672  1.00121.70      ES5
ATOM  37761  C   LYS E   9     161.267 125.973   9.208  1.00 63.44      ES5
ATOM  37762  O   LYS E   9     161.076 126.452   8.081  1.00 63.44      ES5
ATOM  37763  N   MET E  10     162.398 125.363   9.560  1.00 72.26      ES5
ATOM  37764  CA  MET E  10     163.511 125.178   8.630  1.00 72.26      ES5
ATOM  37765  CB  MET E  10     164.830 125.412   9.373  1.00100.96      ES5
ATOM  37766  CG  MET E  10     166.082 125.167   8.554  1.00100.96      ES5
ATOM  37767  SD  MET E  10     166.756 123.519   8.827  1.00100.96      ES5
ATOM  37768  CE  MET E  10     167.883 123.835  10.184  1.00100.96      ES5
ATOM  37769  C   MET E  10     163.500 123.799   7.969  1.00 72.26      ES5
ATOM  37770  O   MET E  10     163.832 122.794   8.595  1.00 72.26      ES5
ATOM  37771  N   ILE E  11     163.113 123.774   6.695  1.00 75.60      ES5
ATOM  37772  CA  ILE E  11     163.026 122.550   5.901  1.00 75.60      ES5
ATOM  37773  CB  ILE E  11     162.669 122.872   4.454  1.00 39.72      ES5
ATOM  37774  CG2 ILE E  11     162.763 121.626   3.610  1.00 39.72      ES5
ATOM  37775  CG1 ILE E  11     161.268 123.470   4.405  1.00 39.72      ES5
ATOM  37776  CD1 ILE E  11     160.289 122.715   5.255  1.00 39.72      ES5
ATOM  37777  C   ILE E  11     164.271 121.676   5.891  1.00 75.60      ES5
ATOM  37778  O   ILE E  11     164.303 120.637   6.553  1.00 75.60      ES5
ATOM  37779  N   LEU E  12     165.277 122.065   5.109  1.00 44.81      ES5
ATOM  37780  CA  LEU E  12     166.517 121.294   5.073  1.00 44.81      ES5
ATOM  37781  CB  LEU E  12     166.491 120.239   3.954  1.00 51.20      ES5
ATOM  37782  CG  LEU E  12     166.830 120.553   2.484  1.00 51.20      ES5
ATOM  37783  CD1 LEU E  12     165.973 121.699   2.022  1.00 51.20      ES5
ATOM  37784  CD2 LEU E  12     168.304 120.883   2.298  1.00 51.20      ES5
ATOM  37785  C   LEU E  12     167.745 122.160   4.898  1.00 44.81      ES5
ATOM  37786  O   LEU E  12     167.671 123.274   4.370  1.00 44.81      ES5
ATOM  37787  N   ILE E  13     168.872 121.647   5.378  1.00 34.79      ES5
ATOM  37788  CA  ILE E  13     170.153 122.325   5.226  1.00 34.79      ES5
ATOM  37789  CB  ILE E  13     170.725 122.883   6.537  1.00 48.70      ES5
ATOM  37790  CG2 ILE E  13     170.217 124.286   6.765  1.00 48.70      ES5
ATOM  37791  CG1 ILE E  13     170.389 121.952   7.691  1.00 48.70      ES5
ATOM  37792  CD1 ILE E  13     170.885 122.459   9.034  1.00 48.70      ES5
ATOM  37793  C   ILE E  13     171.060 121.236   4.731  1.00 34.79      ES5
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ATOM  37794  O   ILE E  13     171.202 120.202   5.391  1.00 34.79      ES5
ATOM  37795  N   ARG E  14     171.642 121.467   3.554  1.00 19.60      ES5
ATOM  37796  CA  ARG E  14     172.526 120.503   2.922  1.00 19.60      ES5
ATOM  37797  CB  ARG E  14     171.981 120.131   1.556  1.00 32.42      ES5
ATOM  37798  CG  ARG E  14     171.814 121.306   0.653  1.00 32.42      ES5
ATOM  37799  CD  ARG E  14     171.307 120.835  -0.663  1.00 32.42      ES5
ATOM  37800  NE  ARG E  14     171.376 121.878  -1.676  1.00 32.42      ES5
ATOM  37801  CZ  ARG E  14     170.954 121.704  -2.924  1.00 32.42      ES5
ATOM  37802  NH1 ARG E  14     170.440 120.526  -3.279  1.00 32.42      ES5
ATOM  37803  NH2 ARG E  14     171.055 122.691  -3.816  1.00 32.42      ES5
ATOM  37804  C   ARG E  14     173.898 121.102   2.775  1.00 19.60      ES5
ATOM  37805  O   ARG E  14     174.030 122.332   2.737  1.00 19.60      ES5
ATOM  37806  N   ARG E  15     174.906 120.227   2.679  1.00 41.66      ES5
ATOM  37807  CA  ARG E  15     176.302 120.639   2.556  1.00 41.66      ES5
ATOM  37808  CB  ARG E  15     177.257 119.478   2.828  1.00 65.94      ES5
ATOM  37809  CG  ARG E  15     178.683 119.946   3.067  1.00 65.94      ES5
ATOM  37810  CD  ARG E  15     179.679 119.234   2.160  1.00 65.94      ES5
ATOM  37811  NE  ARG E  15     180.348 118.093   2.791  1.00 65.94      ES5
ATOM  37812  CZ  ARG E  15     181.084 118.163   3.901  1.00 65.94      ES5
ATOM  37813  NH1 ARG E  15     181.250 119.322   4.527  1.00 65.94      ES5
ATOM  37814  NH2 ARG E  15     181.673 117.072   4.382  1.00 65.94      ES5
ATOM  37815  C   ARG E  15     176.642 121.232   1.212  1.00 41.66      ES5
ATOM  37816  O   ARG E  15     176.552 122.433   1.046  1.00 41.66      ES5
ATOM  37817  N   THR E  16     177.031 120.402   0.256  1.00 36.44      ES5
ATOM  37818  CA  THR E  16     177.406 120.885  -1.078  1.00 36.44      ES5
ATOM  37819  CB  THR E  16     176.655 122.191  -1.505  1.00 53.05      ES5
ATOM  37820  OG1 THR E  16     176.350 122.127  -2.901  1.00 53.05      ES5
ATOM  37821  CG2 THR E  16     177.530 123.431  -1.294  1.00 53.05      ES5
ATOM  37822  C   THR E  16     178.904 121.174  -1.170  1.00 36.44      ES5
ATOM  37823  O   THR E  16     179.512 121.726  -0.244  1.00 36.44      ES5
ATOM  37824  N   ALA E  17     179.491 120.804  -2.302  1.00101.79      ES5
ATOM  37825  CA  ALA E  17     180.910 121.013  -2.515  1.00101.79      ES5
ATOM  37826  CB  ALA E  17     181.634 119.701  -2.550  1.00 11.47      ES5
ATOM  37827  C   ALA E  17     181.188 121.762  -3.787  1.00101.79      ES5
ATOM  37828  O   ALA E  17     180.285 122.093  -4.548  1.00101.79      ES5
ATOM  37829  N   ARG E  18     182.471 121.990  -4.010  1.00 55.88      ES5
ATOM  37830  CA  ARG E  18     182.967 122.717  -5.161  1.00 55.88      ES5
ATOM  37831  CB  ARG E  18     182.878 124.206  -4.872  1.00 67.79      ES5
ATOM  37832  CG  ARG E  18     183.521 125.087  -5.894  1.00 67.79      ES5
ATOM  37833  CD  ARG E  18     184.378 126.122  -5.201  1.00 67.79      ES5
ATOM  37834  NE  ARG E  18     183.755 126.599  -3.973  1.00 67.79      ES5
ATOM  37835  CZ  ARG E  18     184.312 127.491  -3.164  1.00 67.79      ES5
ATOM  37836  NH1 ARG E  18     185.502 127.998  -3.460  1.00 67.79      ES5
ATOM  37837  NH2 ARG E  18     183.681 127.873  -2.062  1.00 67.79      ES5
ATOM  37838  C   ARG E  18     184.411 122.273  -5.192  1.00 55.88      ES5
ATOM  37839  O   ARG E  18     184.948 121.902  -4.149  1.00 55.88      ES5
ATOM  37840  N   MET E  19     185.050 122.285  -6.355  1.00 34.25      ES5
ATOM  37841  CA  MET E  19     186.440 121.851  -6.399  1.00 34.25      ES5
ATOM  37842  CB  MET E  19     186.643 120.752  -7.427  1.00 39.93      ES5
ATOM  37843  CG  MET E  19     186.123 119.426  -6.977  1.00 39.93      ES5
ATOM  37844  SD  MET E  19     187.012 118.852  -5.550  1.00 39.93      ES5
ATOM  37845  CE  MET E  19     187.698 117.294  -6.178  1.00 39.93      ES5
ATOM  37846  C   MET E  19     187.418 122.946  -6.693  1.00 34.25      ES5
ATOM  37847  O   MET E  19     187.121 123.896  -7.423  1.00 34.25      ES5
ATOM  37848  N   GLN E  20     188.592 122.809  -6.101  1.00 53.86      ES5
ATOM  37849  CA  GLN E  20     189.674 123.749  -6.308  1.00 53.86      ES5
ATOM  37850  CB  GLN E  20     189.733 124.809  -5.212  1.00101.18      ES5
ATOM  37851  CG  GLN E  20     188.785 125.958  -5.433  1.00101.18      ES5
ATOM  37852  CD  GLN E  20     188.945 126.570  -6.808  1.00101.18      ES5
ATOM  37853  OE1 GLN E  20     190.038 127.000  -7.182  1.00101.18      ES5
ATOM  37854  NE2 GLN E  20     187.853 126.610  -7.574  1.00101.18      ES5
ATOM  37855  C   GLN E  20     190.900 122.897  -6.232  1.00 53.86      ES5
ATOM  37856  O   GLN E  20     190.920 121.912  -5.490  1.00 53.86      ES5
ATOM  37857  N   ALA E  21     191.912 123.243  -7.018  1.00 46.37      ES5
ATOM  37858  CA  ALA E  21     193.143 122.492  -6.965  1.00 46.37      ES5
ATOM  37859  CB  ALA E  21     194.228 123.259  -7.620  1.00 33.97      ES5
ATOM  37860  C   ALA E  21     193.353 122.453  -5.471  1.00 46.37      ES5
ATOM  37861  O   ALA E  21     192.904 123.352  -4.763  1.00 46.37      ES5
ATOM  37862  N   GLY E  22     193.997 121.425  -4.960  1.00 29.83      ES5
ATOM  37863  CA  GLY E  22     194.161 121.406  -3.527  1.00 29.83      ES5
ATOM  37864  C   GLY E  22     192.979 120.759  -2.834  1.00 29.83      ES5
ATOM  37865  O   GLY E  22     193.187 119.910  -1.977  1.00 29.83      ES5
ATOM  37866  N   GLY E  23     191.743 121.118  -3.165  1.00 57.10      ES5
ATOM  37867  CA  GLY E  23     190.656 120.439  -2.477  1.00 57.10      ES5
ATOM  37868  C   GLY E  23     189.201 120.756  -2.769  1.00 57.10      ES5
ATOM  37869  O   GLY E  23     188.870 121.439  -3.746  1.00 57.10      ES5
ATOM  37870  N   ARG E  24     188.333 120.217  -1.907  1.00 35.19      ES5
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ATOM  37871  CA  ARG E  24     186.891 120.416  -1.988  1.00 35.19       ES5
ATOM  37872  CB  ARG E  24     186.157 119.234  -1.345  1.00 81.76       ES5
ATOM  37873  CG  ARG E  24     186.669 117.895  -1.819  1.00 81.76       ES5
ATOM  37874  CD  ARG E  24     185.879 116.704  -1.299  1.00 81.76       ES5
ATOM  37875  NE  ARG E  24     186.560 115.455  -1.660  1.00 81.76       ES5
ATOM  37876  CZ  ARG E  24     186.822 115.063  -2.911  1.00 81.76       ES5
ATOM  37877  NH1 ARG E  24     186.449 115.817  -3.938  1.00 81.76       ES5
ATOM  37878  NH2 ARG E  24     187.485 113.930  -3.144  1.00 81.76       ES5
ATOM  37879  C   ARG E  24     186.621 121.686  -1.202  1.00 35.19       ES5
ATOM  37880  O   ARG E  24     187.205 121.894  -0.146  1.00 35.19       ES5
ATOM  37881  N   ARG E  25     185.757 122.546  -1.721  1.00 38.77       ES5
ATOM  37882  CA  ARG E  25     185.442 123.784  -1.033  1.00 38.77       ES5
ATOM  37883  CB  ARG E  25     185.889 124.979  -1.877  1.00 65.31       ES5
ATOM  37884  CG  ARG E  25     187.405 125.080  -2.030  1.00 65.31       ES5
ATOM  37885  CD  ARG E  25     188.112 125.027  -0.664  1.00 65.31       ES5
ATOM  37886  NE  ARG E  25     189.569 125.161  -0.738  1.00 65.31       ES5
ATOM  37887  CZ  ARG E  25     190.213 126.272  -1.096  1.00 65.31       ES5
ATOM  37888  NH1 ARG E  25     189.546 127.379  -1.422  1.00 65.31       ES5
ATOM  37889  NH2 ARG E  25     191.539 126.275  -1.130  1.00 65.31       ES5
ATOM  37890  C   ARG E  25     183.951 123.848  -0.741  1.00 38.77       ES5
ATOM  37891  O   ARG E  25     183.153 124.270  -1.584  1.00 38.77       ES5
ATOM  37892  N   PHE E  26     183.597 123.431   0.475  1.00 27.74       ES5
ATOM  37893  CA  PHE E  26     182.217 123.377   0.948  1.00 27.74       ES5
ATOM  37894  CB  PHE E  26     182.187 122.654   2.279  1.00 62.87       ES5
ATOM  37895  CG  PHE E  26     182.890 121.335   2.256  1.00 62.87       ES5
ATOM  37896  CD1 PHE E  26     183.520 120.849   3.394  1.00 62.87       ES5
ATOM  37897  CD2 PHE E  26     182.916 120.570   1.106  1.00 62.87       ES5
ATOM  37898  CE1 PHE E  26     184.170 119.615   3.387  1.00 62.87       ES5
ATOM  37899  CE2 PHE E  26     183.562 119.333   1.088  1.00 62.87       ES5
ATOM  37900  CZ  PHE E  26     184.190 118.857   2.232  1.00 62.87       ES5
ATOM  37901  C   PHE E  26     181.508 124.712   1.094  1.00 27.74       ES5
ATOM  37902  O   PHE E  26     182.133 125.757   1.271  1.00 27.74       ES5
ATOM  37903  N   ARG E  27     180.182 124.644   1.019  1.00 44.71       ES5
ATOM  37904  CA  ARG E  27     179.290 125.796   1.144  1.00 44.71       ES5
ATOM  37905  CB  ARG E  27     179.038 126.405  -0.232  1.00 61.79       ES5
ATOM  37906  CG  ARG E  27     178.044 127.526  -0.221  1.00 61.79       ES5
ATOM  37907  CD  ARG E  27     178.001 128.209  -1.557  1.00 61.79       ES5
ATOM  37908  NE  ARG E  27     179.337 128.614  -1.978  1.00 61.79       ES5
ATOM  37909  CZ  ARG E  27     179.589 129.367  -3.046  1.00 61.79       ES5
ATOM  37910  NH1 ARG E  27     178.587 129.802  -3.805  1.00 61.79       ES5
ATOM  37911  NH2 ARG E  27     180.841 129.680  -3.361  1.00 61.79       ES5
ATOM  37912  C   ARG E  27     177.999 125.215   1.726  1.00 44.71       ES5
ATOM  37913  O   ARG E  27     177.902 124.002   1.843  1.00 44.71       ES5
ATOM  37914  N   PHE E  28     177.027 126.040   2.117  1.00 32.24       ES5
ATOM  37915  CA  PHE E  28     175.776 125.493   2.667  1.00 32.24       ES5
ATOM  37916  CB  PHE E  28     175.693 125.668   4.177  1.00 18.49       ES5
ATOM  37917  CG  PHE E  28     176.724 124.918   4.917  1.00 18.49       ES5
ATOM  37918  CD1 PHE E  28     178.013 125.429   5.042  1.00 18.49       ES5
ATOM  37919  CD2 PHE E  28     176.427 123.680   5.467  1.00 18.49       ES5
ATOM  37920  CE1 PHE E  28     179.005 124.709   5.710  1.00 18.49       ES5
ATOM  37921  CE2 PHE E  28     177.399 122.947   6.134  1.00 18.49       ES5
ATOM  37922  CZ  PHE E  28     178.697 123.462   6.259  1.00 18.49       ES5
ATOM  37923  C   PHE E  28     174.507 126.065   2.094  1.00 32.24       ES5
ATOM  37924  O   PHE E  28     174.454 127.223   1.674  1.00 32.24       ES5
ATOM  37925  N   GLY E  29     173.468 125.242   2.117  1.00 39.31       ES5
ATOM  37926  CA  GLY E  29     172.181 125.672   1.610  1.00 39.31       ES5
ATOM  37927  C   GLY E  29     171.086 125.319   2.595  1.00 39.31       ES5
ATOM  37928  O   GLY E  29     171.101 124.230   3.191  1.00 39.31       ES5
ATOM  37929  N   ALA E  30     170.136 126.238   2.765  1.00 33.13       ES5
ATOM  37930  CA  ALA E  30     169.036 126.020   3.696  1.00 33.13       ES5
ATOM  37931  CB  ALA E  30     169.290 126.786   4.988  1.00 20.22       ES5
ATOM  37932  C   ALA E  30     167.682 126.413   3.136  1.00 33.13       ES5
ATOM  37933  O   ALA E  30     167.530 127.456   2.480  1.00 33.13       ES5
ATOM  37934  N   LEU E  31     166.699 125.559   3.396  1.00 34.96       ES5
ATOM  37935  CA  LEU E  31     165.345 125.831   2.967  1.00 34.96       ES5
ATOM  37936  CB  LEU E  31     164.685 124.608   2.364  1.00 21.00       ES5
ATOM  37937  CG  LEU E  31     164.382 124.846   0.887  1.00 21.00       ES5
ATOM  37938  CD1 LEU E  31     163.187 123.990   0.480  1.00 21.00       ES5
ATOM  37939  CD2 LEU E  31     164.094 126.333   0.635  1.00 21.00       ES5
ATOM  37940  C   LEU E  31     164.576 126.251   4.191  1.00 34.96       ES5
ATOM  37941  O   LEU E  31     164.604 125.566   5.217  1.00 34.96       ES5
ATOM  37942  N   VAL E  32     163.891 127.383   4.086  1.00 52.79       ES5
ATOM  37943  CA  VAL E  32     163.132 127.895   5.207  1.00 52.79       ES5
ATOM  37944  CB  VAL E  32     163.838 129.070   5.851  1.00 44.37       ES5
ATOM  37945  CG1 VAL E  32     163.065 129.489   7.070  1.00 44.37       ES5
ATOM  37946  CG2 VAL E  32     165.258 128.693   6.213  1.00 44.37       ES5
ATOM  37947  C   VAL E  32     161.725 128.348   4.871  1.00 52.79       ES5
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ATOM  37948  O   VAL E  32     161.488 129.047   3.876  1.00 52.79      ES5
ATOM  37949  N   VAL E  33     160.792 127.948   5.726  1.00 42.35      ES5
ATOM  37950  CA  VAL E  33     159.404 128.322   5.544  1.00 42.35      ES5
ATOM  37951  CB  VAL E  33     158.463 127.112   5.593  1.00 45.92      ES5
ATOM  37952  CG1 VAL E  33     157.211 127.405   4.798  1.00 45.92      ES5
ATOM  37953  CG2 VAL E  33     159.159 125.892   5.059  1.00 45.92      ES5
ATOM  37954  C   VAL E  33     159.061 129.228   6.698  1.00 42.35      ES5
ATOM  37955  O   VAL E  33     159.338 128.919   7.850  1.00 42.35      ES5
ATOM  37956  N   VAL E  34     158.479 130.366   6.384  1.00 43.40      ES5
ATOM  37957  CA  VAL E  34     158.109 131.283   7.423  1.00 43.40      ES5
ATOM  37958  CB  VAL E  34     158.948 132.538   7.380  1.00 58.17      ES5
ATOM  37959  CG1 VAL E  34     158.580 133.422   8.541  1.00 58.17      ES5
ATOM  37960  CG2 VAL E  34     160.404 132.176   7.436  1.00 58.17      ES5
ATOM  37961  C   VAL E  34     156.671 131.650   7.185  1.00 43.40      ES5
ATOM  37962  O   VAL E  34     156.288 132.035   6.071  1.00 43.40      ES5
ATOM  37963  N   GLY E  35     155.873 131.507   8.234  1.00 58.71      ES5
ATOM  37964  CA  GLY E  35     154.469 131.826   8.135  1.00 58.71      ES5
ATOM  37965  C   GLY E  35     153.993 132.307   9.478  1.00 58.71      ES5
ATOM  37966  O   GLY E  35     154.714 132.185  10.470  1.00 58.71      ES5
ATOM  37967  N   ASP E  36     152.782 132.853   9.507  1.00 55.47      ES5
ATOM  37968  CA  ASP E  36     152.182 133.362  10.736  1.00 55.47      ES5
ATOM  37969  CB  ASP E  36     151.588 134.736  10.479  1.00 40.38      ES5
ATOM  37970  CG  ASP E  36     150.565 134.720   9.369  1.00 40.38      ES5
ATOM  37971  OD1 ASP E  36     150.238 133.626   8.869  1.00 40.38      ES5
ATOM  37972  OD2 ASP E  36     150.084 135.807   8.998  1.00 40.38      ES5
ATOM  37973  C   ASP E  36     151.074 132.433  11.221  1.00 55.47      ES5
ATOM  37974  O   ASP E  36     150.601 132.539  12.346  1.00 55.47      ES5
ATOM  37975  N   ARG E  37     150.675 131.523  10.347  1.00 29.44      ES5
ATOM  37976  CA  ARG E  37     149.619 130.567  10.608  1.00 29.44      ES5
ATOM  37977  CB  ARG E  37     149.742 129.978  12.008  1.00 62.08      ES5
ATOM  37978  CG  ARG E  37     150.819 128.907  12.081  1.00 62.08      ES5
ATOM  37979  CD  ARG E  37     151.257 128.689  13.504  1.00 62.08      ES5
ATOM  37980  NE  ARG E  37     152.280 127.660  13.665  1.00 62.08      ES5
ATOM  37981  CZ  ARG E  37     152.087 126.363  13.436  1.00 62.08      ES5
ATOM  37982  NH1 ARG E  37     150.904 125.923  13.019  1.00 62.08      ES5
ATOM  37983  NH2 ARG E  37     153.066 125.495  13.660  1.00 62.08      ES5
ATOM  37984  C   ARG E  37     148.278 131.233  10.373  1.00 29.44      ES5
ATOM  37985  O   ARG E  37     147.240 130.726  10.769  1.00 29.44      ES5
ATOM  37986  N   GLN E  38     148.310 132.387   9.718  1.00 44.34      ES5
ATOM  37987  CA  GLN E  38     147.088 133.076   9.352  1.00 44.34      ES5
ATOM  37988  CB  GLN E  38     147.230 134.584   9.510  1.00 99.93      ES5
ATOM  37989  CG  GLN E  38     146.369 135.134  10.626  1.00 99.93      ES5
ATOM  37990  CD  GLN E  38     146.566 134.376  11.927  1.00 99.93      ES5
ATOM  37991  OE1 GLN E  38     147.656 134.378  12.502  1.00 99.93      ES5
ATOM  37992  NE2 GLN E  38     145.508 133.718  12.394  1.00 99.93      ES5
ATOM  37993  C   GLN E  38     146.952 132.702   7.889  1.00 44.34      ES5
ATOM  37994  O   GLN E  38     146.526 131.600   7.571  1.00 44.34      ES5
ATOM  37995  N   GLY E  39     147.340 133.591   6.990  1.00 76.12      ES5
ATOM  37996  CA  GLY E  39     147.247 133.254   5.584  1.00 76.12      ES5
ATOM  37997  C   GLY E  39     148.553 133.582   4.900  1.00 76.12      ES5
ATOM  37998  O   GLY E  39     148.645 133.565   3.675  1.00 76.12      ES5
ATOM  37999  N   ARG E  40     149.575 133.866   5.699  1.00 36.75      ES5
ATOM  38000  CA  ARG E  40     150.871 134.239   5.160  1.00 36.75      ES5
ATOM  38001  CB  ARG E  40     151.287 135.579   5.755  1.00 97.82      ES5
ATOM  38002  CG  ARG E  40     150.141 136.555   5.885  1.00 97.82      ES5
ATOM  38003  CD  ARG E  40     150.640 137.922   6.292  1.00 97.82      ES5
ATOM  38004  NE  ARG E  40     151.631 138.423   5.344  1.00 97.82      ES5
ATOM  38005  CZ  ARG E  40     151.435 138.523   4.030  1.00 97.82      ES5
ATOM  38006  NH1 ARG E  40     150.279 138.155   3.491  1.00 97.82      ES5
ATOM  38007  NH2 ARG E  40     152.400 138.996   3.250  1.00 97.82      ES5
ATOM  38008  C   ARG E  40     151.982 133.212   5.392  1.00 36.75      ES5
ATOM  38009  O   ARG E  40     152.317 132.878   6.535  1.00 36.75      ES5
ATOM  38010  N   VAL E  41     152.548 132.722   4.289  1.00 47.71      ES5
ATOM  38011  CA  VAL E  41     153.643 131.756   4.323  1.00 47.71      ES5
ATOM  38012  CB  VAL E  41     153.232 130.351   3.911  1.00 53.12      ES5
ATOM  38013  CG1 VAL E  41     154.016 129.341   4.715  1.00 53.12      ES5
ATOM  38014  CG2 VAL E  41     151.747 130.176   4.047  1.00 53.12      ES5
ATOM  38015  C   VAL E  41     154.616 132.185   3.268  1.00 47.71      ES5
ATOM  38016  O   VAL E  41     154.219 132.718   2.228  1.00 47.71      ES5
ATOM  38017  N   GLY E  42     155.888 131.925   3.527  1.00 58.74      ES5
ATOM  38018  CA  GLY E  42     156.916 132.286   2.579  1.00 58.74      ES5
ATOM  38019  C   GLY E  42     157.983 131.224   2.612  1.00 58.74      ES5
ATOM  38020  O   GLY E  42     158.206 130.594   3.651  1.00 58.74      ES5
ATOM  38021  N   LEU E  43     158.642 131.024   1.477  1.00 47.38      ES5
ATOM  38022  CA  LEU E  43     159.690 130.016   1.379  1.00 47.38      ES5
ATOM  38023  CB  LEU E  43     159.343 128.998   0.301  1.00 30.51      ES5
ATOM  38024  CG  LEU E  43     159.769 127.566   0.593  1.00 30.51      ES5
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ATOM  38025  CD1 LEU E  43     159.931 126.832  -0.719  1.00 30.51       ES5
ATOM  38026  CD2 LEU E  43     161.065 127.558   1.383  1.00 30.51       ES5
ATOM  38027  C   LEU E  43     161.003 130.659   1.013  1.00 47.38       ES5
ATOM  38028  O   LEU E  43     161.066 131.451   0.081  1.00 47.38       ES5
ATOM  38029  N   GLY E  44     162.059 130.306   1.728  1.00 38.84       ES5
ATOM  38030  CA  GLY E  44     163.349 130.886   1.418  1.00 38.84       ES5
ATOM  38031  C   GLY E  44     164.464 129.869   1.313  1.00 38.84       ES5
ATOM  38032  O   GLY E  44     164.534 128.909   2.089  1.00 38.84       ES5
ATOM  38033  N   PHE E  45     165.344 130.072   0.342  1.00 57.86       ES5
ATOM  38034  CA  PHE E  45     166.473 129.175   0.151  1.00 57.86       ES5
ATOM  38035  CB  PHE E  45     166.289 128.353  -1.112  1.00 44.44       ES5
ATOM  38036  CG  PHE E  45     167.320 127.287  -1.287  1.00 44.44       ES5
ATOM  38037  CD1 PHE E  45     167.475 126.294  -0.331  1.00 44.44       ES5
ATOM  38038  CD2 PHE E  45     168.117 127.255  -2.416  1.00 44.44       ES5
ATOM  38039  CE1 PHE E  45     168.410 125.282  -0.501  1.00 44.44       ES5
ATOM  38040  CE2 PHE E  45     169.050 126.248  -2.588  1.00 44.44       ES5
ATOM  38041  CZ  PHE E  45     169.196 125.258  -1.628  1.00 44.44       ES5
ATOM  38042  C   PHE E  45     167.720 130.020   0.021  1.00 57.86       ES5
ATOM  38043  O   PHE E  45     167.901 130.713  -0.980  1.00 57.86       ES5
ATOM  38044  N   GLY E  46     168.574 129.964   1.034  1.00 40.95       ES5
ATOM  38045  CA  GLY E  46     169.787 130.758   1.006  1.00 40.95       ES5
ATOM  38046  C   GLY E  46     171.053 129.954   1.209  1.00 40.95       ES5
ATOM  38047  O   GLY E  46     171.108 129.043   2.056  1.00 40.95       ES5
ATOM  38048  N   LYS E  47     172.075 130.293   0.422  1.00 31.64       ES5
ATOM  38049  CA  LYS E  47     173.351 129.599   0.506  1.00 31.64       ES5
ATOM  38050  CB  LYS E  47     173.822 129.133  -0.874  1.00 50.88       ES5
ATOM  38051  CG  LYS E  47     172.766 128.499  -1.752  1.00 50.88       ES5
ATOM  38052  CD  LYS E  47     172.003 129.562  -2.504  1.00 50.88       ES5
ATOM  38053  CE  LYS E  47     171.040 128.954  -3.502  1.00 50.88       ES5
ATOM  38054  NZ  LYS E  47     170.300 130.009  -4.259  1.00 50.88       ES5
ATOM  38055  C   LYS E  47     174.385 130.541   1.085  1.00 31.64       ES5
ATOM  38056  O   LYS E  47     174.321 131.748   0.853  1.00 31.64       ES5
ATOM  38057  N   ALA E  48     175.327 129.979   1.840  1.00 32.31       ES5
ATOM  38058  CA  ALA E  48     176.402 130.752   2.460  1.00 32.31       ES5
ATOM  38059  CB  ALA E  48     175.833 131.789   3.431  1.00 38.89       ES5
ATOM  38060  C   ALA E  48     177.395 129.838   3.184  1.00 32.31       ES5
ATOM  38061  O   ALA E  48     177.037 128.755   3.659  1.00 32.31       ES5
ATOM  38062  N   PRO E  49     178.664 130.272   3.263  1.00 33.17       ES5
ATOM  38063  CD  PRO E  49     179.092 131.565   2.711  1.00 31.39       ES5
ATOM  38064  CA  PRO E  49     179.800 129.595   3.888  1.00 33.17       ES5
ATOM  38065  CB  PRO E  49     180.823 130.706   4.052  1.00 31.39       ES5
ATOM  38066  CG  PRO E  49     180.051 131.998   3.744  1.00 31.39       ES5
ATOM  38067  C   PRO E  49     179.564 128.845   5.175  1.00 33.17       ES5
ATOM  38068  O   PRO E  49     180.053 127.732   5.324  1.00 33.17       ES5
ATOM  38069  N   GLU E  50     178.834 129.437   6.110  1.00 71.01       ES5
ATOM  38070  CA  GLU E  50     178.563 128.776   7.388  1.00 71.01       ES5
ATOM  38071  CB  GLU E  50     179.016 129.679   8.535  1.00201.26       ES5
ATOM  38072  CG  GLU E  50     178.635 131.137   8.337  1.00201.26       ES5
ATOM  38073  CD  GLU E  50     179.159 132.042   9.434  1.00201.26       ES5
ATOM  38074  OE1 GLU E  50     178.706 131.899  10.587  1.00201.26       ES5
ATOM  38075  OE2 GLU E  50     180.026 132.895   9.141  1.00201.26       ES5
ATOM  38076  C   GLU E  50     177.071 128.487   7.505  1.00 71.01       ES5
ATOM  38077  O   GLU E  50     176.252 129.333   7.137  1.00 71.01       ES5
ATOM  38078  N   VAL E  51     176.715 127.305   8.013  1.00 24.67       ES5
ATOM  38079  CA  VAL E  51     175.298 126.945   8.151  1.00 24.67       ES5
ATOM  38080  CB  VAL E  51     175.070 125.764   9.124  1.00 22.37       ES5
ATOM  38081  CG1 VAL E  51     173.586 125.564   9.341  1.00 22.37       ES5
ATOM  38082  CG2 VAL E  51     175.686 124.501   8.582  1.00 22.37       ES5
ATOM  38083  C   VAL E  51     174.463 128.114   8.665  1.00 24.67       ES5
ATOM  38084  O   VAL E  51     173.607 128.653   7.944  1.00 24.67       ES5
ATOM  38085  N   PRO E  52     174.704 128.523   9.921  1.00 44.94       ES5
ATOM  38086  CD  PRO E  52     175.787 128.070  10.812  1.00 53.16       ES5
ATOM  38087  CA  PRO E  52     173.982 129.628  10.542  1.00 44.94       ES5
ATOM  38088  CB  PRO E  52     174.930 130.062  11.639  1.00 53.16       ES5
ATOM  38089  CG  PRO E  52     175.446 128.757  12.110  1.00 53.16       ES5
ATOM  38090  C   PRO E  52     173.689 130.743   9.573  1.00 44.94       ES5
ATOM  38091  O   PRO E  52     172.537 131.019   9.239  1.00 44.94       ES5
ATOM  38092  N   LEU E  53     174.743 131.381   9.107  1.00 28.45       ES5
ATOM  38093  CA  LEU E  53     174.562 132.485   8.188  1.00 28.45       ES5
ATOM  38094  CB  LEU E  53     175.922 132.890   7.627  1.00 51.68       ES5
ATOM  38095  CG  LEU E  53     176.100 134.388   7.413  1.00 51.68       ES5
ATOM  38096  CD1 LEU E  53     177.571 134.685   7.181  1.00 51.68       ES5
ATOM  38097  CD2 LEU E  53     175.239 134.852   6.243  1.00 51.68       ES5
ATOM  38098  C   LEU E  53     173.573 132.172   7.049  1.00 28.45       ES5
ATOM  38099  O   LEU E  53     172.693 132.986   6.720  1.00 28.45       ES5
ATOM  38100  N   ALA E  54     173.719 130.989   6.459  1.00 51.89       ES5
ATOM  38101  CA  ALA E  54     172.874 130.577   5.348  1.00 51.89       ES5
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ATOM  38102  CB  ALA E  54     173.308 129.232   4.852  1.00 56.14       ES5
ATOM  38103  C   ALA E  54     171.420 130.527   5.750  1.00 51.89       ES5
ATOM  38104  O   ALA E  54     170.544 131.028   5.036  1.00 51.89       ES5
ATOM  38105  N   VAL E  55     171.166 129.898   6.892  1.00 15.40       ES5
ATOM  38106  CA  VAL E  55     169.811 129.789   7.408  1.00 15.40       ES5
ATOM  38107  CB  VAL E  55     169.806 129.129   8.764  1.00 25.66       ES5
ATOM  38108  CG1 VAL E  55     168.396 128.782   9.144  1.00 25.66       ES5
ATOM  38109  CG2 VAL E  55     170.707 127.903   8.741  1.00 25.66       ES5
ATOM  38110  C   VAL E  55     169.259 131.187   7.570  1.00 15.40       ES5
ATOM  38111  O   VAL E  55     168.108 131.455   7.263  1.00 15.40       ES5
ATOM  38112  N   GLN E  56     170.104 132.083   8.057  1.00 27.03       ES5
ATOM  38113  CA  GLN E  56     169.696 133.459   8.252  1.00 27.03       ES5
ATOM  38114  CB  GLN E  56     170.840 134.269   8.862  1.00151.97       ES5
ATOM  38115  CG  GLN E  56     170.363 135.342   9.814  1.00151.97       ES5
ATOM  38116  CD  GLN E  56     169.559 134.756  10.959  1.00151.97       ES5
ATOM  38117  OE1 GLN E  56     170.081 133.984  11.763  1.00151.97       ES5
ATOM  38118  NE2 GLN E  56     168.278 135.110  11.032  1.00151.97       ES5
ATOM  38119  C   GLN E  56     169.304 134.049   6.906  1.00 27.03       ES5
ATOM  38120  O   GLN E  56     168.163 134.472   6.696  1.00 27.03       ES5
ATOM  38121  N   LYS E  57     170.261 134.070   5.989  1.00 43.95       ES5
ATOM  38122  CA  LYS E  57     170.016 134.609   4.660  1.00 43.95       ES5
ATOM  38123  CB  LYS E  57     171.225 134.316   3.760  1.00 47.84       ES5
ATOM  38124  CG  LYS E  57     171.321 135.190   2.516  1.00 47.84       ES5
ATOM  38125  CD  LYS E  57     172.647 134.967   1.808  1.00 47.84       ES5
ATOM  38126  CE  LYS E  57     173.831 135.245   2.750  1.00 47.84       ES5
ATOM  38127  NZ  LYS E  57     175.182 135.006   2.144  1.00 47.84       ES5
ATOM  38128  C   LYS E  57     168.744 133.972   4.093  1.00 43.95       ES5
ATOM  38129  O   LYS E  57     167.973 134.617   3.384  1.00 43.95       ES5
ATOM  38130  N   ALA E  58     168.532 132.705   4.435  1.00 17.93       ES5
ATOM  38131  CA  ALA E  58     167.374 131.963   3.969  1.00 17.93       ES5
ATOM  38132  CB  ALA E  58     167.481 130.511   4.423  1.00 88.47       ES5
ATOM  38133  C   ALA E  58     166.069 132.587   4.474  1.00 17.93       ES5
ATOM  38134  O   ALA E  58     165.253 133.078   3.676  1.00 17.93       ES5
ATOM  38135  N   GLY E  59     165.880 132.558   5.798  1.00 45.27       ES5
ATOM  38136  CA  GLY E  59     164.691 133.133   6.406  1.00 45.27       ES5
ATOM  38137  C   GLY E  59     164.445 134.499   5.800  1.00 45.27       ES5
ATOM  38138  O   GLY E  59     163.328 134.860   5.442  1.00 45.27       ES5
ATOM  38139  N   TYR E  60     165.514 135.269   5.678  1.00 40.40       ES5
ATOM  38140  CA  TYR E  60     165.415 136.583   5.089  1.00 40.40       ES5
ATOM  38141  CB  TYR E  60     166.816 137.134   4.823  1.00 91.21       ES5
ATOM  38142  CG  TYR E  60     166.842 138.451   4.077  1.00 91.21       ES5
ATOM  38143  CD1 TYR E  60     166.547 139.647   4.720  1.00 91.21       ES5
ATOM  38144  CE1 TYR E  60     166.596 140.852   4.038  1.00 91.21       ES5
ATOM  38145  CD2 TYR E  60     167.180 138.496   2.726  1.00 91.21       ES5
ATOM  38146  CE2 TYR E  60     167.228 139.693   2.033  1.00 91.21       ES5
ATOM  38147  CZ  TYR E  60     166.938 140.868   2.693  1.00 91.21       ES5
ATOM  38148  OH  TYR E  60     166.997 142.062   2.005  1.00 91.21       ES5
ATOM  38149  C   TYR E  60     164.654 136.464   3.776  1.00 40.40       ES5
ATOM  38150  O   TYR E  60     163.499 136.864   3.679  1.00 40.40       ES5
ATOM  38151  N   TYR E  61     165.320 135.894   2.774  1.00 44.52       ES5
ATOM  38152  CA  TYR E  61     164.748 135.731   1.444  1.00 44.52       ES5
ATOM  38153  CB  TYR E  61     165.577 134.753   0.602  1.00 65.62       ES5
ATOM  38154  CG  TYR E  61     166.943 135.237   0.141  1.00 65.62       ES5
ATOM  38155  CD1 TYR E  61     167.092 136.451  -0.528  1.00 65.62       ES5
ATOM  38156  CE1 TYR E  61     168.334 136.862  -1.003  1.00 65.62       ES5
ATOM  38157  CD2 TYR E  61     168.074 134.448   0.323  1.00 65.62       ES5
ATOM  38158  CE2 TYR E  61     169.315 134.847  -0.148  1.00 65.62       ES5
ATOM  38159  CZ  TYR E  61     169.440 136.054  -0.808  1.00 65.62       ES5
ATOM  38160  OH  TYR E  61     170.677 136.452  -1.258  1.00 65.62       ES5
ATOM  38161  C   TYR E  61     163.333 135.215   1.527  1.00 44.52       ES5
ATOM  38162  O   TYR E  61     162.487 135.581   0.710  1.00 44.52       ES5
ATOM  38163  N   ALA E  62     163.079 134.361   2.516  1.00 21.61       ES5
ATOM  38164  CA  ALA E  62     161.750 133.776   2.689  1.00 21.61       ES5
ATOM  38165  CB  ALA E  62     161.797 132.658   3.722  1.00 46.28       ES5
ATOM  38166  C   ALA E  62     160.731 134.826   3.102  1.00 21.61       ES5
ATOM  38167  O   ALA E  62     159.716 135.019   2.441  1.00 21.61       ES5
ATOM  38168  N   ARG E  63     161.024 135.509   4.200  1.00 53.95       ES5
ATOM  38169  CA  ARG E  63     160.166 136.552   4.741  1.00 53.95       ES5
ATOM  38170  CB  ARG E  63     160.860 137.178   5.946  1.00 57.81       ES5
ATOM  38171  CG  ARG E  63     159.950 137.899   6.892  1.00 57.81       ES5
ATOM  38172  CD  ARG E  63     160.609 137.984   8.263  1.00 57.81       ES5
ATOM  38173  NE  ARG E  63     160.970 136.667   8.784  1.00 57.81       ES5
ATOM  38174  CZ  ARG E  63     162.191 136.332   9.187  1.00 57.81       ES5
ATOM  38175  NH1 ARG E  63     163.185 137.214   9.136  1.00 57.81       ES5
ATOM  38176  NH2 ARG E  63     162.420 135.109   9.638  1.00 57.81       ES5
ATOM  38177  C   ARG E  63     159.882 137.617   3.687  1.00 53.95       ES5
ATOM  38178  O   ARG E  63     159.072 138.514   3.907  1.00 53.95       ES5
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ATOM  38179  N   ARG E  64     160.551 137.506   2.544  1.00 50.25       ES5
ATOM  38180  CA  ARG E  64     160.386 138.457   1.454  1.00 50.25       ES5
ATOM  38181  CB  ARG E  64     161.745 139.037   1.072  1.00141.33       ES5
ATOM  38182  CG  ARG E  64     162.403 139.774   2.210  1.00141.33       ES5
ATOM  38183  CD  ARG E  64     163.667 140.467   1.773  1.00141.33       ES5
ATOM  38184  NE  ARG E  64     164.114 141.406   2.793  1.00141.33       ES5
ATOM  38185  CZ  ARG E  64     163.451 142.504   3.143  1.00141.33       ES5
ATOM  38186  NH1 ARG E  64     162.306 142.810   2.550  1.00141.33       ES5
ATOM  38187  NH2 ARG E  64     163.932 143.296   4.092  1.00141.33       ES5
ATOM  38188  C   ARG E  64     159.730 137.816   0.235  1.00 50.25       ES5
ATOM  38189  O   ARG E  64     159.722 138.378  -0.871  1.00 50.25       ES5
ATOM  38190  N   ASN E  65     159.168 136.637   0.455  1.00109.59       ES5
ATOM  38191  CA  ASN E  65     158.499 135.881  -0.589  1.00109.59       ES5
ATOM  38192  CB  ASN E  65     159.441 134.794  -1.101  1.00 87.18       ES5
ATOM  38193  CG  ASN E  65     158.729 133.748  -1.906  1.00 87.18       ES5
ATOM  38194  OD1 ASN E  65     158.060 134.056  -2.892  1.00 87.18       ES5
ATOM  38195  ND2 ASN E  65     158.861 132.494  -1.489  1.00 87.18       ES5
ATOM  38196  C   ASN E  65     157.248 135.264   0.023  1.00109.59       ES5
ATOM  38197  O   ASN E  65     157.143 134.044   0.163  1.00109.59       ES5
ATOM  38198  N   MET E  66     156.296 136.117   0.391  1.00 55.30       ES5
ATOM  38199  CA  MET E  66     155.077 135.637   1.020  1.00 55.30       ES5
ATOM  38200  CB  MET E  66     154.588 136.644   2.063  1.00 49.17       ES5
ATOM  38201  CG  MET E  66     155.621 137.085   3.087  1.00 49.17       ES5
ATOM  38202  SD  MET E  66     156.141 135.835   4.273  1.00 49.17       ES5
ATOM  38203  CE  MET E  66     154.654 135.625   5.178  1.00 49.17       ES5
ATOM  38204  C   MET E  66     153.942 135.340   0.044  1.00 55.30       ES5
ATOM  38205  O   MET E  66     153.798 135.984  -1.002  1.00 55.30       ES5
ATOM  38206  N   VAL E  67     153.135 134.354   0.413  1.00 52.73       ES5
ATOM  38207  CA  VAL E  67     151.996 133.946  -0.381  1.00 52.73       ES5
ATOM  38208  CB  VAL E  67     152.173 132.513  -0.900  1.00 55.99       ES5
ATOM  38209  CG1 VAL E  67     150.940 132.067  -1.659  1.00 55.99       ES5
ATOM  38210  CG2 VAL E  67     153.386 132.444  -1.795  1.00 55.99       ES5
ATOM  38211  C   VAL E  67     150.792 133.983   0.542  1.00 52.73       ES5
ATOM  38212  O   VAL E  67     150.879 133.532   1.692  1.00 52.73       ES5
ATOM  38213  N   GLU E  68     149.681 134.528   0.045  1.00 60.17       ES5
ATOM  38214  CA  GLU E  68     148.444 134.616   0.818  1.00 60.17       ES5
ATOM  38215  CB  GLU E  68     147.667 135.872   0.427  1.00200.92       ES5
ATOM  38216  CG  GLU E  68     146.423 136.096   1.261  1.00200.92       ES5
ATOM  38217  CD  GLU E  68     146.728 136.119   2.745  1.00200.92       ES5
ATOM  38218  OE1 GLU E  68     147.560 136.951   3.165  1.00200.92       ES5
ATOM  38219  OE2 GLU E  68     146.139 135.306   3.489  1.00200.92       ES5
ATOM  38220  C   GLU E  68     147.579 133.376   0.572  1.00 60.17       ES5
ATOM  38221  O   GLU E  68     147.001 133.216  -0.502  1.00 60.17       ES5
ATOM  38222  N   VAL E  69     147.492 132.509   1.575  1.00 58.79       ES5
ATOM  38223  CA  VAL E  69     146.721 131.275   1.464  1.00 58.79       ES5
ATOM  38224  CB  VAL E  69     147.265 130.182   2.393  1.00 55.21       ES5
ATOM  38225  CG1 VAL E  69     146.642 128.848   2.016  1.00 55.21       ES5
ATOM  38226  CG2 VAL E  69     148.780 130.128   2.323  1.00 55.21       ES5
ATOM  38227  C   VAL E  69     145.258 131.452   1.821  1.00 58.79       ES5
ATOM  38228  O   VAL E  69     144.926 131.673   2.981  1.00 58.79       ES5
ATOM  38229  N   PRO E  70     144.362 131.340   0.833  1.00 27.71       ES5
ATOM  38230  CD  PRO E  70     144.650 131.335  -0.607  1.00 65.81       ES5
ATOM  38231  CA  PRO E  70     142.922 131.489   1.063  1.00 27.71       ES5
ATOM  38232  CB  PRO E  70     142.344 131.475  -0.347  1.00 65.81       ES5
ATOM  38233  CG  PRO E  70     143.444 132.049  -1.155  1.00 65.81       ES5
ATOM  38234  C   PRO E  70     142.350 130.366   1.917  1.00 27.71       ES5
ATOM  38235  O   PRO E  70     141.644 129.496   1.413  1.00 27.71       ES5
ATOM  38236  N   LEU E  71     142.656 130.382   3.206  1.00 45.92       ES5
ATOM  38237  CA  LEU E  71     142.142 129.359   4.098  1.00 45.92       ES5
ATOM  38238  CB  LEU E  71     142.797 129.470   5.476  1.00 57.10       ES5
ATOM  38239  CG  LEU E  71     144.294 129.174   5.621  1.00 57.10       ES5
ATOM  38240  CD1 LEU E  71     144.758 129.559   7.009  1.00 57.10       ES5
ATOM  38241  CD2 LEU E  71     144.562 127.709   5.367  1.00 57.10       ES5
ATOM  38242  C   LEU E  71     140.633 129.522   4.246  1.00 45.92       ES5
ATOM  38243  O   LEU E  71     140.150 130.602   4.578  1.00 45.92       ES5
ATOM  38244  N   GLN E  72     139.888 128.459   3.966  1.00 46.45       ES5
ATOM  38245  CA  GLN E  72     138.444 128.480   4.114  1.00 46.45       ES5
ATOM  38246  CB  GLN E  72     137.726 128.006   2.855  1.00 76.45       ES5
ATOM  38247  CG  GLN E  72     137.828 128.928   1.674  1.00 76.45       ES5
ATOM  38248  CD  GLN E  72     136.769 128.618   0.625  1.00 76.45       ES5
ATOM  38249  OE1 GLN E  72     136.478 127.452   0.351  1.00 76.45       ES5
ATOM  38250  NE2 GLN E  72     136.191 129.663   0.028  1.00 76.45       ES5
ATOM  38251  C   GLN E  72     138.148 127.506   5.229  1.00 46.45       ES5
ATOM  38252  O   GLN E  72     137.622 126.427   4.991  1.00 46.45       ES5
ATOM  38253  N   ASN E  73     138.512 127.880   6.446  1.00 49.76       ES5
ATOM  38254  CA  ASN E  73     138.269 127.032   7.598  1.00 49.76       ES5
ATOM  38255  CB  ASN E  73     136.869 126.415   7.514  1.00 87.58       ES5
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ATOM  38256  CG  ASN E  73     136.570 125.493   8.673  1.00 87.58      ES5
ATOM  38257  OD1 ASN E  73     135.596 124.742   8.646  1.00 87.58      ES5
ATOM  38258  ND2 ASN E  73     137.404 125.548   9.707  1.00 87.58      ES5
ATOM  38259  C   ASN E  73     139.311 125.928   7.698  1.00 49.76      ES5
ATOM  38260  O   ASN E  73     139.020 124.767   7.427  1.00 49.76      ES5
ATOM  38261  N   GLY E  74     140.528 126.302   8.082  1.00 69.03      ES5
ATOM  38262  CA  GLY E  74     141.607 125.335   8.233  1.00 69.03      ES5
ATOM  38263  C   GLY E  74     141.985 124.540   6.999  1.00 69.03      ES5
ATOM  38264  O   GLY E  74     143.040 123.906   6.970  1.00 69.03      ES5
ATOM  38265  N   THR E  75     141.134 124.572   5.978  1.00 21.16      ES5
ATOM  38266  CA  THR E  75     141.410 123.835   4.760  1.00 21.16      ES5
ATOM  38267  CB  THR E  75     140.371 122.764   4.522  1.00 47.38      ES5
ATOM  38268  OG1 THR E  75     140.977 121.663   3.833  1.00 47.38      ES5
ATOM  38269  CG2 THR E  75     139.233 123.330   3.682  1.00 47.38      ES5
ATOM  38270  C   THR E  75     141.492 124.708   3.510  1.00 21.16      ES5
ATOM  38271  O   THR E  75     141.481 125.923   3.583  1.00 21.16      ES5
ATOM  38272  N   ILE E  76     141.560 124.064   2.357  1.00 46.46      ES5
ATOM  38273  CA  ILE E  76     141.700 124.760   1.094  1.00 46.46      ES5
ATOM  38274  CB  ILE E  76     142.847 124.107   0.291  1.00 64.06      ES5
ATOM  38275  CG2 ILE E  76     142.833 124.545  -1.146  1.00 64.06      ES5
ATOM  38276  CG1 ILE E  76     144.174 124.466   0.937  1.00 64.06      ES5
ATOM  38277  CD1 ILE E  76     145.332 123.755   0.324  1.00 64.06      ES5
ATOM  38278  C   ILE E  76     140.434 124.806   0.244  1.00 46.46      ES5
ATOM  38279  O   ILE E  76     139.578 123.921   0.299  1.00 46.46      ES5
ATOM  38280  N   PRO E  77     140.304 125.857  -0.558  1.00 30.81      ES5
ATOM  38281  CD  PRO E  77     141.122 127.074  -0.513  1.00 17.36      ES5
ATOM  38282  CA  PRO E  77     139.155 126.046  -1.436  1.00 30.81      ES5
ATOM  38283  CB  PRO E  77     139.300 127.493  -1.890  1.00 17.36      ES5
ATOM  38284  CG  PRO E  77     140.764 127.716  -1.829  1.00 17.36      ES5
ATOM  38285  C   PRO E  77     139.033 125.119  -2.626  1.00 30.81      ES5
ATOM  38286  O   PRO E  77     138.285 125.452  -3.539  1.00 30.81      ES5
ATOM  38287  N   HIS E  78     139.758 123.997  -2.648  1.00 43.31      ES5
ATOM  38288  CA  HIS E  78     139.688 123.017  -3.754  1.00 43.31      ES5
ATOM  38289  CB  HIS E  78     139.147 123.619  -5.058  1.00 43.07      ES5
ATOM  38290  CG  HIS E  78     140.080 124.583  -5.706  1.00 43.07      ES5
ATOM  38291  CD2 HIS E  78     139.901 125.861  -6.115  1.00 43.07      ES5
ATOM  38292  ND1 HIS E  78     141.391 124.271  -5.985  1.00 43.07      ES5
ATOM  38293  CE1 HIS E  78     141.980 125.317  -6.537  1.00 43.07      ES5
ATOM  38294  NE2 HIS E  78     141.098 126.296  -6.628  1.00 43.07      ES5
ATOM  38295  C   HIS E  78     141.014 122.370  -4.087  1.00 43.31      ES5
ATOM  38296  O   HIS E  78     142.064 122.820  -3.625  1.00 43.31      ES5
ATOM  38297  N   GLU E  79     140.956 121.333  -4.929  1.00 31.42      ES5
ATOM  38298  CA  GLU E  79     142.147 120.585  -5.315  1.00 31.42      ES5
ATOM  38299  CB  GLU E  79     141.785 119.189  -5.816  1.00126.64      ES5
ATOM  38300  CG  GLU E  79     140.455 118.665  -5.336  1.00126.64      ES5
ATOM  38301  CD  GLU E  79     139.309 119.148  -6.198  1.00126.64      ES5
ATOM  38302  OE1 GLU E  79     139.384 118.965  -7.431  1.00126.64      ES5
ATOM  38303  OE2 GLU E  79     138.334 119.702  -5.649  1.00126.64      ES5
ATOM  38304  C   GLU E  79     142.952 121.287  -6.381  1.00 31.42      ES5
ATOM  38305  O   GLU E  79     142.434 122.095  -7.131  1.00 31.42      ES5
ATOM  38306  N   ILE E  80     144.239 120.971  -6.406  1.00 29.41      ES5
ATOM  38307  CA  ILE E  80     145.192 121.508  -7.367  1.00 29.41      ES5
ATOM  38308  CB  ILE E  80     145.884 122.830  -6.898  1.00 19.41      ES5
ATOM  38309  CG2 ILE E  80     145.522 124.009  -7.795  1.00 19.41      ES5
ATOM  38310  CG1 ILE E  80     145.564 123.071  -5.436  1.00 19.41      ES5
ATOM  38311  CD1 ILE E  80     146.156 122.034  -4.576  1.00 19.41      ES5
ATOM  38312  C   ILE E  80     146.289 120.464  -7.444  1.00 29.41      ES5
ATOM  38313  O   ILE E  80     146.654 119.846  -6.443  1.00 29.41      ES5
ATOM  38314  N   GLU E  81     146.790 120.257  -8.649  1.00 55.91      ES5
ATOM  38315  CA  GLU E  81     147.875 119.336  -8.880  1.00 55.91      ES5
ATOM  38316  CB  GLU E  81     147.424 118.181  -9.774  1.00147.39      ES5
ATOM  38317  CG  GLU E  81     146.514 117.199  -9.055  1.00147.39      ES5
ATOM  38318  CD  GLU E  81     146.041 116.064  -9.942  1.00147.39      ES5
ATOM  38319  OE1 GLU E  81     146.894 115.425 -10.594  1.00147.39      ES5
ATOM  38320  OE2 GLU E  81     144.816 115.806  -9.976  1.00147.39      ES5
ATOM  38321  C   GLU E  81     148.840 120.249  -9.597  1.00 55.91      ES5
ATOM  38322  O   GLU E  81     148.489 120.850 -10.613  1.00 55.91      ES5
ATOM  38323  N   VAL E  82     150.039 120.398  -9.049  1.00 61.40      ES5
ATOM  38324  CA  VAL E  82     151.016 121.273  -9.666  1.00 61.40      ES5
ATOM  38325  CB  VAL E  82     151.382 122.407  -8.745  1.00 22.20      ES5
ATOM  38326  CG1 VAL E  82     152.656 122.067  -7.985  1.00 22.20      ES5
ATOM  38327  CG2 VAL E  82     151.524 123.673  -9.546  1.00 22.20      ES5
ATOM  38328  C   VAL E  82     152.289 120.553 -10.059  1.00 61.40      ES5
ATOM  38329  O   VAL E  82     152.730 119.612  -9.395  1.00 61.40      ES5
ATOM  38330  N   GLU E  83     152.889 121.029 -11.137  1.00 29.35      ES5
ATOM  38331  CA  GLU E  83     154.104 120.430 -11.653  1.00 29.35      ES5
ATOM  38332  CB  GLU E  83     153.891 120.060 -13.123  1.00149.26      ES5
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CRYSTAL STRUCTURE VI

Field of the Invention

The present invention relates to the provision of high resolution crystal structures of the prokaryotic 30S ribosome subunit in complex with tRNA and a cognate mRNA, both in the presence and absence of the antibiotic paromomycin. The invention also provides for the use of these structures in drug discovery.

Background of the Invention

During protein synthesis, the ribosome catalyzes the sequential addition of amino acids to a growing polypeptide chain using messenger RNA (mRNA) as a template and aminoacylated transfer RNAs (aa-tRNAs) as substrates. Correct base pairing between the three bases of the codon on mRNA and those of the anticodon of the cognate aa-tRNA dictates the sequence of the polypeptide chain. Discrimination against non-cognate tRNA, which generally has two or three mismatches in the base pairing, can be accounted for by the difference in the free energy of base pairing to the codon compared to cognate tRNA. For near-cognate tRNA, which usually involves a single mismatch, the free energy difference in base pairing compared to cognate tRNA would predict an error rate that is 1-2 orders of magnitude higher than the actual error rate of protein synthesis (reviewed in (1)), and it has long been recognized that the ribosome must improve the accuracy of protein synthesis by discriminating against near-cognate tRNAs (2). This discrimination involves the 30S subunit, which binds mRNA and the anticodon stem-loop (ASL) of tRNA.

At the beginning of the elongation cycle, which involves the addition of a new amino acid to a growing polypeptide chain, the aa-tRNA is presented to the ribosome as a ternary complex with elongation factor Tu (EF-Tu) and guanosine triphosphate

(GTP). The selection of cognate tRNA is believed to occur in two stages, an initial recognition step and a proofreading step, that are separated by the irreversible hydrolysis of GTP by EF-Tu (3-6). In this scheme, the discrimination energy inherent in codon-anticodon base pairing is exploited twice to achieve the necessary accuracy. Recent experiments suggest that the binding of cognate rather than near-cognate tRNA results in higher rates of both GTP hydrolysis by EF-Tu, and accommodation, a process in which the acceptor arm of the aa-tRNA swings into the peptidyl transferase site after its release from EF-Tu (7, 8). In both steps, the higher rate is proposed to be the result of structural changes in the ribosome induced by cognate tRNA. In the context of proofreading mechanisms alone, it is unclear whether additional structural discrimination by the ribosome, over that inherent in the energetics of codon-anticodon base pairing, is actually required in decoding. In an alternative view, it was proposed that the ribosome contributes to the specificity of decoding by recognizing the geometry of codon-anticodon base pairing (9, 10), probably by direct recognition of the sugar phosphate backbone (11). This is consistent with evidence that the ribosome can discriminate between cognate and near-cognate tRNA with very high accuracy in a single step under near-equilibrium conditions (12), so that the recognition and proofreading steps may be needed not just for accuracy as proposed earlier, but for the combination of high speed and accuracy required in protein synthesis.

The heart of decoding involves recognition of Watson-Crick base-pairing between the codon on mRNA and the anticodon found in positions 34-36 of the ASL of tRNA. This base pairing results in a short double helix that we refer to as the codon-anticodon helix. Data from chemical protection (13), cross-linking (14) and genetic analysis (15) suggest that the decoding site is a region around the ribosomal A site that

includes helix 44, the 530 loop and helix 34 of 16S RNA, which are now known from the high resolution structure of the 30S subunit to be close to one another (16, 17).

Recent work on decoding has focused on an internal loop of helix 44 containing two universally conserved bases, A1492 and A1493. These bases are chemically protected at their N1 positions when tRNA is bound in the A site of the 30S subunit (13), and were shown to be essential for viability in *E. coli* and for A-site tRNA binding (18). This loop is also the binding site of the antibiotic paromomycin that reduces the fidelity of decoding (19-21). NMR structures of a fragment of RNA containing this internal loop showed that these bases were displaced into the minor groove of helix 44 in the presence of paromomycin (20, 22). A direct interaction of the N1 of these bases with the 2' OH of mRNA was inferred on the basis of biochemical experiments (18). Based on these data, it was suggested that the changes induced by the antibiotic mimic those induced by cognate tRNA, that the bases would interact via their minor groove side with the minor groove of the codon-anticodon helix, and that they would sense the shape of the codon-anticodon helix during decoding (18, 20, 22). However, in the absence of a structure in the context of the whole 30S subunit, it was also possible to use existing data to propose an alternative and quite different model of the decoding site that involved interaction of the codon-anticodon helix with the major rather than minor groove of helix 44 (23).

A 7.8 Å resolution structure of the 70S ribosome in complex with mRNA and tRNA (24) showed that at that resolution, the conformation of the internal loop in helix 44 was similar to that in the paromomycin-bound NMR structure of the isolated fragment (20). However, A1492 and A1493 in this internal loop appeared too far from the codon-anticodon helix to interact

with it directly (24), so their role and the general structural basis of decoding by the ribosome remained unclear.

More recently, the crystal structure of the 30S subunit complexed with paromomycin, streptomycin and spectinomycin (21) showed that A1492 and A1493 are in fact completely flipped out from their stacked position inside the internal loop rather than just displaced into the minor groove as previously proposed (20). The displaced bases point into the A site in a position that would indeed allow direct monitoring of the minor groove of the codon-anticodon helix. On the basis of this structure, we suggested that during decoding, these bases would flip out even in the absence of paromomycin, in a way that would allow discrimination of cognate from near-cognate tRNA (21). However, this conformation would place the N1 of the adenines pointing towards tRNA, and hence unable to make the interactions with mRNA previously reported (18).

Summary of the Invention

We have examined the interactions of the 30S subunit with mRNA and an anticodon stem-loop of cognate tRNA bound in the A site by x-ray crystallography. The x-ray crystal structure of this complex is provided by Table 1 below.

We have also formed a 30S complex which in addition to tRNA and mRNA includes the antibiotic, paromomycin. The x-ray crystal structure of this complex is provided by Table 2 below.

By way of comparison, we have also determined the x-ray crystal structure of paromomycin bound to the 30S ribosome. This is provided by Table 3 below.

In a first aspect, the present invention provides a crystal of the *Thermus thermophilus* 30S subunit bound to a tRNA molecule

and a cognate mRNA, having a tetragonal space group $P4_12_12$ with unit cell dimensions of a = 401.6 Å, b = 401.6 Å and c = 176.1 Å.

In a second aspect, the present invention provides a crystal of the *Thermus thermophilus* 30S subunit bound to a tRNA molecule, a cognate mRNA and paromomycin having a tetragonal space group $P4_12_12$ with unit cell dimensions of a = 400.8 Å, b = 400.8 Å and c = 175.9 Å.

In a third aspect, the present invention provides a crystal of the *Thermus thermophilus* 30S subunit bound to paromomycin having a tetragonal space group $P4_12_12$ with unit cell dimensions of a = 401.2 Å, b = 401.2 Å and c = 176.4 Å.

An advantageous feature of these structures are that they diffract at about a 3Å resolution. Another feature of the structures are that it was obtained in a method which did not involve soaking crystals in heavy atom (e.g. tungsten or tantalum) clusters or heat activation. Furthermore, it is specifically of the 885-888/910-912 base pairing confirmation of 16S RNA. These features, both singly and in combination all contribute to features of the invention which are advantageous.

In a related aspect, the invention also provides a crystal of 30S bound to a tRNA molecule and a cognate mRNA having the three dimensional atomic coordinates of Table N, where N is selected from 1, 2 or 3. Reference herein to Table N is hereafter a reference to any one of these tables.

We have also observed that 30S crystals do not contain the S1 subunit protein. In our studies, we have found that by selectively removing this protein prior to crystallization, we have been able to obtain the improved resolution described

herein. Although the atomic co-ordinates provided in Table N below allows those of skill in the art to bypass the need to undertake the crystallization of the 30S, this crystallization method nonetheless forms a further aspect of the invention.

Accordingly, there is provided a method for crystallizing a the 30S subunit to obtain a high resolution structure of a 30S subunit, which method comprises providing a 30S subunit, selectively removing the S1 subunit therefrom, crystallizing the 30S and soaking into the crystals either (i) tRNA and a cognate mRNA, and/or (ii) an antibiotic, particularly one which acts at the site of tRNA recognition or mRNA synthesis such as paromomycin. This aspect of the invention may be performed with any tRNA molecule and any mRNA with a cognate codon, not only the specific tRNA and mRNA of the accompanying example.

In a further aspect, the present invention provides a method for identifying a potential inhibitor of the 30S comprising the steps of:

employing a three-dimensional structure of 30S, or at least one sub-domain thereof, to characterize at least one site bound by tRNA or mRNA, the three-dimensional structure being defined by atomic coordinate data according to Table N; and

identifying the potential inhibitor by designing or selecting a compound for interaction with the site.

In a further aspect, the present invention provides computer readable media with either (a) atomic coordinate data according to Table N recorded thereon, said data defining the three-dimensional structure of 30S or at least one sub-domain thereof, or (b) structure factor data for 30S recorded thereon, the structure factor data being derivable from the atomic coordinate data of Table N.

Detailed Description of the Invention.

Definitions.

The term "sub-domain" includes the following:

(a) and element selected from the following:

at least one complete element of secondary structure, i.e. an alpha helix or a beta sheet, or RNA helix, as described in the detailed description below;

a group of two or more such elements which interact with each other;

at least one subunit protein;

a subgroup of subunit proteins, for example a group which includes two or more proteins which are found to interact with each other;

any of the above, when being protein or element thereof being used in conjunction with all or part of the 16S RNA structure associated with said elements or proteins;

(b) a space of volume defining a region around any one particular atom of interest (e.g. an atom involved in binding to an antibiotic), the volume being less than the total volume of the tetragonal space of the complete crystal. For example, the coordinates of atoms in a volume of from about 500 to about 15,000 $Å^3$ may be selected and used for the present invention. Such a space may be a sphere having a diameter of from about 10 Å to about 30 Å, centred around a point of interest; and

(c) a collection of at least 10, e.g. at least 25 such as at least 50, more preferably at least 100, even more preferably at least 500 atoms and most preferably at least 1000 atoms defined by the coordinates of Table N, wherein at least 2 of said atoms, and preferably at least 50% of said atoms of the collection are located within 50 Å of each other.

A "site" or "binding site" of the 30S is any part of this structure involved in binding to tRNA, mRNA or paromomycin, or regions whose conformation is altered by the binding of these molecules. Particular regions of the 30S include those identified herein as tRNA, mRNA or antibiotic binding regions based on the data provided in Table N. Depending on the particular molecule in the cavity, sites may exhibit attractive or repulsive binding interactions, brought about by charge, steric considerations and the like.

By "fitting", is meant determining by automatic, or semi-automatic means, interactions between one or more atoms of an potential inhibitor molecule and one or more atoms or binding sites of the 30S, and calculating the extent to which such interactions are stable. Various computer-based methods for fitting are described further herein.

By "root mean square deviation" we mean the square root of the arithmetic mean of the squares of the deviations from the mean.

"Computer readable media" refers to any media which can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media such as floppy discs, hard disc storage medium and magnetic tape; optical storage media such as optical discs or CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media.

A "computer system" refers to the hardware means, software means and data storage means used to analyse the atomic coordinate data of the present invention. The minimum hardware means of the computer-based systems of the present invention comprises a central processing unit (CPU), input

means, output means and data storage means. Desirably a monitor is provided to visualise structure data. The data storage means may be RAM or means for accessing computer readable media of the invention. Examples of such systems are microcomputer workstations available from Silicon Graphics Incorporated and Sun Microsystems running Unix based, Windows NT or IBM OS/2 operating systems.

A "cognate" mRNA is an mRNA molecule which includes a triplet of nucleotides which are capable of base-pairing with the anti-codon loop of tRNA. Likewise, the term may be applied to tRNA which has an anticodon loop defining a sequence which base pairs to a triplet found in an mRNA.

Table N.

The coordinates of Table N provides a measure of atomic location in Angstroms, to a third decimal place. In order to use the information in these Tables for the purposes described herein as being aspects of the present invention, these coordinates may be varied by up to $\pm$ 1.0, such as by up to $\pm$ 0.7, preferably no more than up to $\pm$0.5 Angstroms, without departing from the scope of the invention.

Furthermore, varying the relative atomic positions of the atoms of the structure so that the root mean square deviation of the 16S RNA or S2-S20 protein backbone atoms is less than 1.5Å (preferably less than 1.0Å and more preferably less than 0.5Å) when superimposed on the coordinates provided in a Table N for the 30S structures, will generally result in a structure which is substantially the same as the structure of that Table N in terms of both its structural characteristics and potency for structure-based drug design of 30S inhibitors.

Thus for the purposes described herein as being aspects of the present invention, it is within the scope of the invention if:

the coordinates of a Table are transposed to a different origin and/or axes; the relative atomic positions of the atoms of the structure are varied so that the root mean square deviation of conserved residue backbone atoms is less than 1.5Å (preferably less than 1.0Å and more preferably less than 0.5Å) when superimposed on the coordinates provided in Tables 1 for the conserved residue backbone atoms; and/or the number and/or positions of water molecules is varied. Reference herein to the use of the coordinates of a Table N thus includes the use of coordinates in which one or more individual values of the Table is varied in this way.

Table N includes coordinates of metal ions which are selected from zinc and magnesium. Some or all of these ions may optionally be discarded from the Table when using the data. The Tables also list the coordinates of a 26 amino acid peptide, Thx. The coordinates of Thx may likewise optionally be discarded, i.e. so that the coordinates of the 16S mRNA and the proteins S2 to S20 alone are modelled and used in applications of the invention.

There are a few N- or C-terminal sequences of the S2 to S20 proteins which were not resolved in the structure of Table N, together with a some of the 5' and 3' residues of the 16S RNA. These are not essential for the purposes of the present invention.

This invention provides those of skill in the art a means to provide 30S crystals of *T.thermophilus* bound to tRNA and mRNA, and/or the antibiotic paromomycin. The conservation of ribosome structure, particularly regions of structure essential for function, between prokaryotes, for example prokaryotes which are human pathogens, such as Staphylococcus spp, and the like, allows the structure herein to be useful in the provision of anti-bacterial agents in general.

The 30S crystal structure.

The high resolution structure provided herein provides a crystal with unit cell dimensions which are provided in the accompanying table to 3 decimal places, as set out above. However, those of skill in the art wishing to reproduce the crystallization described herein and obtain such crystals will appreciate that a degree of experimental error will mean that crystals of the invention will be obtained with a unit cell dimension within, but not exactly corresponding to, this size. Thus crystals of the invention may generally be defined as having unit cell dimensions a, b, and c as defined above in which a and b vary by no more than $\pm$ x Å, and c varies by no more than $\pm$ 2x, where x is no more than 1.0 Å such as no more than 0.7 Å such as no more than 0.5 Å, such as no more than 0.2 Å. These unit cell sizes are believed to define novel and more highly resolved unit cell sizes than has previously been possible in the art.

Production of crystals.

To obtain crystals according to the present invention, we have found that selective removal of the S1 subunit protein is advantageous. This may be achieved by the use of hydrophobic interaction chromatography, poly(U) sepharose or by gel electrophoresis. Examples of this are illustrated in the accompanying examples:

Example 1

A suitable method for the selective removal of the S1 subunit protein is by the use of a hydrophobic interaction chromatography column (poros-ET). 30S ribosomal subunits lacking the S1 subunit may suitably be separated from those containing the S1 subunit by running a column using a reverse ammonium sulfate gradient from 1.5M to 0.5M, with 20mM Hepes, pH 7.5, and 10mM acetate. The 30S subunits lacking S1 are

eluted first, giving the first major peak. During elution of the 30S peak the ammonium sulfate concentration is maintained at a constant level. Once the 30S peak has eluted the ammonium sulfate concentration is then further reduced to elute the 30S + S1 fraction.

Example 2

An alternative method for the selective removal of the S1 subunit protein is by preparative gel electrophoresis. Gel electrophoresis may suitably be carried out by first preparing and mixing a 3% acrylamide, 0.5% agarose cylindrical gel, and pouring this gel into a BioRad Prep Cell. 30S ribosomal subunits are then loaded onto the gel and continuously eluted as they emerge form the other end of the gel. The 30S fraction lacking the S1 subunit comes off first, giving the first major peak. The 30S + S1 fraction gives the trailing peak (or shoulder) and can be discarded.

Once the S1 is removed, the crystals may be formed, using suitable conditions. These include the use of 13-17% v/v methyl-2,4-pentanediol in the presence of 200-300 (e.g. about 250) mM KCl, 50-100 (e.g. about 75) mM ammonium chloride, 15-30 (e.g. about 15 or about 25) mM $MgCl_2$ at a pH of 6.0 - 7.0 (e.g. about pH 6.3 - 6.7 such as pH 6.5) in 50 - 150 (e.g. about 100) mM sodium or potassium cacodylate or MES (2-(N-morpholino)ethane sulphonic acid).

In a particular aspect, the conditions may comprise the use of 250 mM KCl, 75 mM NH_4Cl, 25 mM $MgCl_2$, 6 mM 2-mercaptoethanol in 0.1 M potassium cacodylate or 0.1 M MES (2-N-morpholino-ethanesulfonic acid) at pH 6.5 with 13-17% MPD as the precipitant.

The crystals may be grown by any suitable method known as such to those of skill in the art. Suitably, the crystals may be

grown over a period of 4-8 weeks at about 4°C. Once crystals are obtained, the tRNA and mRNA, if required, may be soaked into the crystals. A concentration of from 100 to 300 μM is suitable for this purpose. An antibiotic, such as paromomycin, may be soaked in, in addition or in the alternative. The antibiotic may be used in any convenient soluble form at a concentration range of from 10 to 500 μM, preferably from 50 to 100 μM, such as about 80 μM. The structure of the crystals so obtained may be resolved to a resolution of at least 3Å. Crystals obtainable by such a method are also a further aspect of the invention.

Use of structure of Table N.

The determination of the three-dimensional structure of 30S provides a basis for the design of new and specific inhibitors for 30S. For example, knowing the three-dimensional structure of 30S, computer modelling programs may be used to design different molecules expected to interact with possible or confirmed sites, such as binding sites or other structural or functional features of 30S. Specific uses of Tables 1 to 3 include:

Table 1.

The data presented in Table 1 may be used to model the binding of tRNA and mRNA to the 30S ribosome. In addition, the data provide an indication of the various steric changes which the 30S ribosome undergoes when tRNA and mRNA bind to it. The shape of the 30S ribosome when bound may be used to model potential inhibitors of bacterial protein synthesis, e.g. by fitting potential inhibitors into the structure of 30S provided by table 1 or a sub-domain thereof involved in binding to mRNA and/or tRNA. Such inhibitors will bind to the 30S ribosome in competition with tRNA or mRNA, and thus inhibit the progress of translation. Such inhibition may either slow down the rate of translation or provide for

premature termination of the translation process.

Table 2.

The structure of the 30S which additionally to that of Table 1 includes the binding of paromomycin may additionally be used to examine potential inhibitor compounds which act at a similar site to paromomycin and exert a similar effect on the structure of the 30S.

Table 3.

This structure may also be used to examine potential inhibitor compounds which act at a similar site to paromomycin.

Inhibitor Fitting.

The high resolution models of the 30S provided by Table N can be used to examine the binding of tRNA, mRNA and or to the ribosome. By using this information, the skilled person in the art can design potential in which may be useful as antibiotics.

More specifically, a potential inhibitor capable of modulating 30S activity can be examined through the use of computer modelling using a docking program such as GRAM, DOCK, or AUTODOCK (see Walters et al., *Drug Discovery Today*, Vol.3, No.4, (1998), 160-178, and Dunbrack et al., *Folding and Design*, 2, (1997), 27-42) to identify potential inhibitors of 30S. This procedure can include computer fitting of potential inhibitors to 30S to ascertain how well the shape and the chemical structure of the potential inhibitor will bind to the structure.

Also computer-assisted, manual examination of the tRNA, mRNA and paromomycin binding sites of the 30S may be performed. The use of programs such as GRID (Goodford, *J. Med. Chem.*, 28,

(1985), 849-857) - a program that determines probable interaction sites between molecules with various functional groups and the enzyme surface - may also be used to analyse the active site to predict partial structures of potential inhibitors for the site.

Computer programs can be employed to estimate the attraction, repulsion, and steric hindrance of the two binding partners (e.g. the 30S and a potential inhibitor). Generally the tighter the fit, the fewer the steric hindrances, and the greater the attractive forces, the more potent the potential inhibitor since these properties are consistent with a tighter binding constant. Furthermore, the more specificity in the design of a potential inhibitor, the more likely it is that it will not interact with other proteins as well. This will tend to minimise potential side-effects due to unwanted interactions with other proteins.

In one embodiment a plurality of candidate inhibitor compounds are screened or interrogated for interaction with the binding sites. In one example, identification of a potential inhibitor involves providing the structures of the candidate agent compounds, each of which is then fitted in step (c) to computationally screen a database of compounds (such as the Cambridge Structural Database) for interaction with the binding sites.

In one aspect, the above described methods may be used to perform a computer-based method of rational drug design which comprises:

providing the structure of the 30S ribosome defined by the coordinates of Table N;

providing the structure of a candidate inhibitor molecule; and

fitting the candidate to the structure of the 30S.

It will be understood that the phrase "the structure of the 30S ribosome defined by the coordinates of Table N" as used above and elsewhere herein is reference to the coordinates defined by atoms 1-51527 of Table 1, 1-51536 of Table 2, or 1-51514 of Table 3, optionally also including the Thx and/or any or all of the metal ions defined by Table N.

In an alternative aspect, the method of the invention may utilise the coordinates of atoms of interest of the 30S which are in the vicinity of the tRNA, mRNA and/or paromomycin binding region in order to model the pocket in which these molecules bind. These coordinates may be used to define a space which is then screened *"in silico"* against a candidate inhibitor molecule. Thus the invention provides a computer-based method of rational drug design which comprises:

providing the coordinates of at least one atom of Table N of the 30S ribosome;

providing the structure of a potential inhibitor molecule; and

fitting the structure of potential inhibitor to the coordinates of the 30S ribosome.

In this embodiment, the at least one atom of the 30S ribosome provided will preferably be an atom of a base of the 16S RNA selected from C518, G530, C1054, A1492 and A1193, or an atom of the S12 amino acids Ser59 or Pro48.

In practice, it will be desirable to model a sufficient number of atoms of the 30S ribosome as defined by the coordinates of Table N which represent a binding region for tRNA and/or mRNA. Such binding regions and other features are described in the accompanying example. Thus, in this embodiment of the invention, there will preferably be provided the coordinates of at least 5, preferably at least 10, more preferably at

least 50 and even more preferably at least 100 atoms such as at least 500 and more preferably at least 1000 atoms of the 30S ribosome. Of these atoms provided, at least one will preferably be from the 16S RNA or S12 polypeptide as defined above.

Having designed or selected potential inhibitors, these can then be screened for activity. Consequently, the method preferably further comprises the further steps of:

obtaining or synthesising the potential inhibitor; and

contacting the potential inhibitor with 30S to determine the ability of the potential inhibitor to interact with 30S.

More preferably, in the contacting step the potential inhibitor is contacted with 30S under conditions to determine its function, for example in a cell free translation system.

Instead of, or in addition to, performing such an assay, the method may comprise the further steps of:

obtaining or synthesising said potential inhibitor;

forming a complex of 30S and said potential inhibitor; and

analysing said complex by X-ray crystallography to determine the ability of said potential inhibitor to interact with 30S. Detailed structural information can then be obtained about the binding of the potential inhibitor to 30S, and in the light of this information adjustments can be made to the structure or functionality of the potential inhibitor, e.g. to improve binding to the active site. The above steps may be repeated and re-repeated as necessary.

Another aspect of the invention includes a compound which is identified as an inhibitor of 30S by the method of the above aspects of the invention.

Following identification of an inhibitor compound, it may be manufactured and/or used in the preparation, i.e. manufacture or formulation, of a composition such as a medicament, pharmaceutical composition or drug. These may be administered to individuals.

Thus, the present invention extends in various aspects not only to an inhibitor as provided by the invention, but also a pharmaceutical composition, medicament, drug or other composition comprising such an inhibitor e.g. for treatment (which may include preventative treatment) of disease such as microbial infection; a method comprising administration of such a composition to a patient, e.g. for treatment of disease such as microbial infection; use of such an inhibitor in the manufacture of a composition for administration, e.g. for treatment of disease such as microbial infection; and a method of making a pharmaceutical composition comprising admixing such an inhibitor with a pharmaceutically acceptable excipient, vehicle or carrier, and optionally other ingredients.

In another aspect, the invention provides a method of analysing a 30S-ligand complex wherein the ligand is an inhibitor which has been obtained by the methods of the invention described above, comprising the steps of (i) cocrystallising the 30S with the ligand or soaking the ligand into crystals of the 30S; (ii) collecting X-ray crystallographic diffraction data from the crystals of the 30S-ligand complex and (iii) using the three-dimensional structure of 30S of Table N, or at least one sub-domain thereof, to generate a difference Fourier electron density map of the 30S-ligand; and (iv) modelling the ligand in the difference Fourier electron density.

Therefore, 30S-ligand complexes can be crystallised and

analysed using X-ray diffraction methods, e.g. according to the approach described by Greer et al., *J. of Medicinal Chemistry*, Vol. 37, (1994), 1035-1054, and difference Fourier electron density maps can be calculated based on X-ray diffraction patterns of soaked or co-crystallised 30S and the solved structure of uncomplexed 30S. These maps can then be used to determine the structure of the ligand bound to the 30S and/or changes the conformation of 30S.

Electron density maps can be calculated using programs such as those from the CCP4 computing package (Collaborative Computational Project 4. The CCP4 Suite: Programs for Protein Crystallography, *Acta Crystallographica*, D50, (1994), 760-763.). For map visualisation and model building programs such as "O" (Jones et al., *Acta Crystallograhy*, A47, (1991), 110-119) can be used.

By providing such computer readable media, the atomic coordinate data can be routinely accessed to model 30S or a sub-domain thereof. For example, RASMOL is a publicly available computer software package which allows access and analysis of atomic coordinate data for structure determination and/or rational drug design.

On the other hand, structure factor data, which are derivable from atomic coordinate data (see e.g. Blundell et al., in *Protein Crystallography*, Academic Press, New York, London and San Francisco, (1976)), are particularly useful for calculating e.g. difference Fourier electron density maps.

In another aspect, the present invention provides systems, particularly a computer systems, intended to generate structures and/or perform rational drug design for 30S ligand complexes, the systems containing either (a) atomic coordinate

data according to Table N, said data defining the three-dimensional structure of 30S or at least one sub-domain thereof, or (b) structure factor data for 30S, said structure factor data being derivable from the atomic coordinate data of Table N.

The invention is illustrated below by the following examples, their accompanying Figures and Tables. In Tables N (1 to 3) there is shown in each row Atom number, element type, residue (amino acid, nucleotide, etc), number in molecule (for proteins N to C terminal direction, for nucleic acid 5' to 3' direction), X, Y and Z co-ordinates, occupancy, B factor ($Å^2$) and an identifier for the member of the 30S (e.g. for the subunits in the format "ASn" where A is an arbitrary letter, different for each member, S is the subunit and n is the subunit number; and for the 16S as "A16S").

Crystal structures of the 30S ribosomal subunit have been solved in complex with mRNA and cognate tRNA in the A site, both in the presence and absence of the antibiotic paromomycin. Cognate tRNA binding induces global domain movements of the 30S subunit and changes in the conformation of the universally conserved and essential bases A1492, A1493 and G530 of 16S RNA. These bases interact intimately with the minor groove of the first two base pairs between the codon and anticodon, thus sensing Watson-Crick base pairing geometry and discriminating against near-cognate tRNA. The third, or "wobble" position of the codon is free to accommodate certain non-canonical base pairs. By partially inducing these structural changes, paromomycin facilitates binding of near-cognate tRNAs.

Structure Determination

Recently, we showed that the A site in our crystal form is accessible by diffusion to macromolecules as large as

initiation factor IF1 (25). Based on this experience, a 17 nucleotide fragment corresponding to the ASL of $tRNA^{phe}$ with a GAA anticodon, along with a U_6 hexanucleotide that would place a codon for phenylalanine in the A-site were soaked into crystals of the 30S subunit (26). Diffraction data to 3.1 - 3.3 Å resolution were collected from such crystals both in the absence and presence of paromomycin, as well as from crystals of the 30S subunit soaked in paromomycin alone (see table in Examples below). Initial refinement was done using the native 30S subunit structure (PDB entry 1FJF) (17) as a starting model, with the occupancies of the atoms for parts of the structure in the vicinity of A-site tRNA initially set to zero to avoid possible bias (26). Clear density for the A-site codon and tRNA ASL, and elements of the 30S subunit that had changed conformation such as A1492, A1493 and G530 were visible in difference Fourier electron density maps for the complexes both in the absence and presence of paromomycin. These elements were subsequently built into the maps for each of the individual structures, and a final refinement was done with all atoms visible in the electron density, including metal ions. Statistics for the refinement are shown in the table below. A σ_A-weighted $2mF_o - DF_c$ map after refinement was also calculated.

Overview of mRNA and tRNA in the A site

The structure reveals details of mRNA and tRNA binding to the 30S subunit. In our native 30S subunit structure, the 3' end of 16S RNA is folded back into the message binding cleft of the 30S subunit, and thus mimics mRNA in the P and E sites (21). The P site is also occupied by a stem-loop that mimics tRNA and comes from helix 6 of a neighboring molecule in the crystal. These features are also seen in all the complexes described below. Additionally, in the structures with the ASL and U_6 hexanucleotide, we can clearly see the three nucleotides from the A-site codon, and slightly less well-defined density

for a fourth nucleotide 3′ of the A site. The electron density for the mRNA between the P and A sites appears continuous despite the fact that there is a covalent break in the chain between the P- and A-site codons. As reported earlier at lower resolution (24), there is a distinct kink in the path of the mRNA between the A- and P-site codons. In addition, we can now see in detail how the ASL of cognate tRNA interacts with the A-site codon and the 30S subunit. The structure of the ASL, which does not contain any modified nucleosides, is very similar to that of isolated yeast phenylalanine tRNA (27, 28) or of *Thermus* phenylalanine tRNA complexed with aminoacyl synthetase (29). The contacts of the ASL to the 530 loop, helix 34 and helix 44 of the ribosome arise solely from the anticodon loop.

Recognition of cognate tRNA in the ribosome by an induced fit

The binding of mRNA and cognate tRNA in the A site induces A1492 and A1493 to flip out of the internal loop of helix 44. This binding also causes the universally conserved base G530, which has been foot-printed by A-site tRNA (13), to switch from the *syn* conformation present in the native structure to an *anti* conformation. In their new conformations, A1493 and A1492 interact with the first and second base pairs of the codon-anticodon helix, while G530 interacts with both the second position of the anticodon and the third position of the codon. The result of these induced changes is that the first two base-pairs of the codon-anticodon helix are closely monitored by the ribosome in a way that would be able to discriminate between Watson-Crick base pairing and mismatches, while the environment of the third, or "wobble," position appears to be suited for accommodating other base-pairing geometries (30, 31).

A1493 packs tightly in the minor groove of the first base-pair

of the codon-anticodon helix, so that there are hydrogen bonds between the 2' OH of the A1493 and the 2' OH of the first nucleotide of the codon, as well as between N1 of A1493 and the 2' OH of position 36 of the anticodon (Figure 1A). Additionally, a hydrogen bond is evident from the 2' OH of A1493 to the O2 of the uracil in the codon. Although this bond involves the base, it is not sequence specific because the O2 of pyrimidines and the N3 of purines are hydrogen bond acceptors that occupy equivalent positions in the minor groove of Watson-Crick base pairs (32). In the case of a GC or CG base pair at the first codon position, it would be possible to form an additional bond from the N3 of the A1493 to the N2 of the guanine.

A1492 and G530 together bind in and span the minor groove of the second base-pair of the codon-anticodon helix (Figure 1B), and their orientation relative to one another is stabilized in part by a hydrogen bond between their N1 positions. They make equivalent interactions with each strand of the codon-anticodon helix in that the 2' OH of the codon hydrogen bonds to the N3 and the 2' OH of A1492, while the 2' OH of tRNA hydrogen bonds to the N3 and 2' OH of G530. In addition, the N6 of A1492 is involved in hydrogen bonding to the 2' OH of the universally conserved C518, as well as to the highly conserved Ser50 (*E. coli* Ser46) of the nearby protein S12. The loop of S12 containing this serine (Thr44 to Ala51; *E. coli* residues 40-47) is the site of mutations that affect the fidelity of translation (reviewed in 33). As with the first base pair, the close fit of van der Waals surfaces and various interactions in the minor groove would be sensitive to whether the second base-pair had Watson-Crick geometry or not.

Unlike the first two base-pairs, the geometry of the third base-pair between the codon and anticodon, which in our structure is a GU base pair, is not as closely monitored by

the ribosome (Figure 1C). The 2' OH of the codon makes a hydrogen bond with the O6 of G530 as well as an indirect metal-mediated interaction with the O2 of C518 and the main chain carbonyl of Pro48 (*E. coli* Pro44) of protein S12. In addition, the pyrimidine O2 of the anticodon and the O6 of G530 are in close contact. The ribose of the anticodon packs against C1054 from helix 34 in the head of the ribosome. These interactions leave the minor groove of this base pair, especially on the anticodon side, relatively open as compared to the first two positions. Since non-canonical base pairs alter the shape and possible interactions in the minor groove, the structure shows why some of these are allowed in the wobble position. Also, the mRNA nucleotide in this position makes more interactions with the ribosome than does the tRNA, confirming predictions that its conformation should be the more restricted of the two (31).

The geometry of the first two base pairs of the codon-anticodon helix is very similar in the presence and absence of paromomycin, with a slightly less planar base pair in the first position in the presence of paromomycin. In the absence of paromomycin, the geometry for the third position deviates from that expected for a wobble pair (Figure 1C), but the expected wobble geometry is seen in the higher resolution structure in the presence of paromomycin (Figure 1D). Since we see occasional departures from ideality in other parts of the 30S subunit structure, it is clear that higher resolution will be needed to make definitive statements about deviations from standard geometry.

The structure is consistent with most chemical protection (13) and genetic data (15) on A-site tRNA binding. The finding that A1492 and A1493 are required for viability (18) is rationalized by the observation that the smaller pyrimidines could not reach far enough to make interactions with tRNA or

G530, and that guanine would not only have a steric clash at its N2 position, but would also not be able to hydrogen-bond through its N1 in the same way. The requirement for guanine at position 530 (34) can be similarly rationalized, since its N1 is required to hydrogen bond with the N1 of A1492, and its O6 is required to hydrogen bond with the 2' OH of the uridine at the third position of the codon. While A1492 and A1493 flip out of helix 44 and monitor the minor groove of the codon-anticodon helix roughly as we had proposed, the details of the interactions are different from those in the two motifs found in the structure of 16S RNA that we had suggested as possible ways for adenines to recognize the codon-anticodon helix (21). Also, the N1 of these adenines interact with the 2' OH of tRNA or with the N1 of G530, rather than with the 2' OH groups of mRNA as proposed previously (18). Finally the structure does not support a model in which the N6 of these adenines forms a hydrogen bond with the O2 of pyrimidines or N3 of purines on mRNA (23).

Both the structural interactions and the general strategy in decoding have similarities with other systems. The interactions that A1493 and A1492 make with the minor groove of the first two base pairs of the codon-anticodon helix are identical to tertiary interactions that occur in both the group I intron (35) and the structure of 23S RNA (36), and classified as consecutive "Type I" and "Type II" A-minor motif interactions (37). These interactions always involve conserved adenines, and a major part of the stabilization energy arises from the complementarity of the adenines with the surface of the minor groove (38). Similar tertiary interactions involving tight packing of conserved adenines in minor grooves of adjacent helices have also been reported previously in the 16S RNA structure (17, 21).

The strategy adopted by the ribosome to recognize correct base

pairing has similarities and differences with other template-directed enzymes that have high fidelity such as DNA and RNA polymerases. These enzymes also make close interactions with the minor groove of the base pair to be formed. In DNA polymerases, conserved arginines or glutamines form hydrogen bonds to the O2 of pyrimidines or N3 of purines (39, 40). In our structures, A1493 does make a similar hydrogen bond with the O2 of uracil in monitoring the first codon base. However, the ribosome mainly forms bonds with the ribose 2' OH groups on both strands of the codon-anticodon helix, which are not available to DNA polymerases. Interestingly, T7 RNA polymerase also forms hydrogen bonds to 2' OH moieties of the incoming ribonucleotide and the RNA transcript (41). It is clear that the ribosome, like polymerases, senses the shape and available interactions at the minor groove to ensure fidelity.

Effect of paromomycin

The effects of tRNA and paromomycin on the 30S subunit are shown schematically in Figure 2. In the native structure (17), A1492 and A1493 are stacked in the interior of helix 44 (Figure 2A), and G530 is stacked in the 530 loop in the *syn* conformation. The binding of paromomycin flips out A1492 and A1493 (Figure 2B). The structure of the decoding site in the presence of paromomycin alone is essentially identical to that determined previously in the presence of paromomycin, streptomycin and spectinomycin (21), showing that the changes induced in this region are solely due to the binding of paromomycin. However, in the absence of tRNA, paromomycin does not have an effect on G530, which remains in the *syn* conformation. The binding of A-site tRNA flips out G530 into the *anti* conformation (Figure 2C); it also flips out A1492 and A1493, but they are not in exactly the same conformation as with paromomycin alone (compare Figure 2B and C). In the presence of cognate A-site tRNA, the additional presence of

paromomycin (Figure 2D) does not result in further changes in the conformation of these bases (compare Figure 2C and D).

The structures provide firm evidence that the changes induced in the 30S subunit by cognate tRNA are energetically favorable because various compensating interactions can be made by the ribosome with the codon-anticodon helix, but only when the first two base-pairs are canonical Watson-Crick base pairs. In the case of near-cognate tRNA, fewer of these interactions would be possible, so the induced changes would normally be less favorable. By paying part of the energetic cost of these induced changes, especially in displacing A1492 and A1493 from their internal loop in helix 44, paromomycin facilitates the binding of near-cognate tRNAs, along with the full changes induced as a result. This model is consistent with the finding that paromomycin accelerates precisely those steps (GTP hydrolysis and accommodation) for near-cognate tRNA that are normally slower as compared to cognate tRNA (8) and agrees with earlier proposals that paromomycin works by inducing structural changes in the decoding site (21, 22) rather than by making direct interactions with mRNA or tRNA (23). The structure also explains the classical result that single stranded DNA is not normally a good template for protein synthesis, but becomes so in the presence of the antibiotics neomycin and kanamycin that are closely related to paromomycin (42). Since the 2' OH groups are not present on DNA, the induced structural changes on cognate tRNA binding are not normally favorable because fewer interactions are possible. However, just as with normal translation, aminoglycosides can pay for part of the energetic cost of the induced changes and stabilize tRNA binding.

Other conformational changes during decoding

During accommodation, the A-site tRNA has to rotate

significantly from its initial orientation as part of the ternary complex with EF-Tu to its final position in the A site where its acceptor end is accessible to peptidyl transferase (43, 44). From an examination of the A-site tRNA in 70S ribosome structures (24, 45, 46), it appears that the position of the ASL in our structure is close to the tRNA orientation after accommodation. Since most of the selectivity of cognate over near-cognate tRNA appears to come from the accommodation step (7), the structure we see is likely to be relevant for understanding the specificity of the ribosome for cognate tRNA. A high resolution structure of the EF-Tu ternary complex bound to the ribosome will be required to understand details of the initial recognition step. However, it is likely that many of the changes induced by cognate tRNA are initiated during the binding of the ternary complex, and that the resulting interactions of the ribosome with the codon-anticodon helix persist during the subsequent movement of the tRNA.

A key question that remains to be answered is how the changes around the decoding site induced by cognate tRNA are transmitted to EF-Tu to trigger GTP hydrolysis. The binding of cognate tRNA results in a movement of the head and shoulder of the 30S subunit towards each other in a way that closes around the A-site tRNA. These changes are even greater when paromomycin is bound in addition to cognate tRNA, with as much as a 4 Å relative movement between the head and shoulder. As with the binding of IF1 (25), it is likely that we do not see the full extent of conformational changes because of the constraints of the crystal lattice. It is possible that these changes reflect the types of changes in the 30S subunit that occur on the binding of the EF-Tu ternary complex, which may be transmitted to the 50S subunit and be part of the trigger for GTP hydrolysis by EF-Tu. Another possibility, suggested on the basis of experiments in which the acceptor arm and the

anticodon stem-loop of cognate tRNA were present as two separate fragments, is that the signal to EF-Tu is transmitted through tRNA itself (47).

Conclusions

This work shows that the ribosome recognizes the geometry of codon-anticodon base pairing in a way that would discriminate against near-cognate tRNAs. The minor groove of the first and second base-pairs between the codon and anticodon are closely monitored by a set of interactions that are induced by the binding of cognate tRNA. These interactions would be disrupted by mismatches, so that the induced structural changes would no longer be energetically favorable. The third or "wobble" position has less stringent constraints, and therefore can allow a broader range of base-pairing geometries, consistent with the requirements of the genetic code. The binding of paromomycin partially induces the changes that normally are induced by cognate tRNA. By paying part of the energetic cost of these induced changes, paromomycin facilitates the increased incorporation of amino acids from near-cognate tRNAs.

Figure 1. Interactions of the ribosome with the codon-anticodon base pairs. The tightness of the interactions is shown by the semitransparent van der Waals surface. (A) In the first position, A1493 binds in the minor groove of the A36-U1 base pair. (B) In the second position, G530 and A1492 act in concert to monitor the A35-U2 base pair. (C) The third (wobble) position, showing the G34-U3 base pair. C1054 stacks against G36 of the ASL. U3 interacts with G530, and indirectly through a Mg ion with C518 and residue Pro48 (*E. coli* Pro44) from protein S12. The base pair seems closer to Watson-Crick geometry. (D) The third position in the presence of paromomycin, with the expected G•U wobble pair. The interactions with the ribosome are similar to (C).

Figure 2. Discrete states of the A site of the 30S subunit, as deduced from four different crystal structures. In all panels, the tRNA ASL, A-site codon, P-site mRNA, protein S12 , and important bases involved in conformational changes are shown. A few elements of the 16S RNA such as helix 44 (lower right), 530 loop (mid and lower left), and helix 34 (upper left) are also shown. (A) The native 30S subunit (17). A1492/3 (right) are stacked in the interior of H44, and G530 is in the *syn* conformation. C1054 is shown in the upper left corner. (B) In the presence of paromomycin, the bases of A1492 and A1493 have been displaced into the A site by the binding of the antibiotic inside helix 44 (lower right). (C) When the codon and cognate tRNA-ASL bind in the A site, A1492/3 flip out to monitor the codon-anticodon interaction and G530 has switched to the *anti* conformation to interact with A1492, the anticodon in the second position and the codon in the third. Two Mg ions are visible near the region vacated by A1492/3 in the interior of helix 44 and one is located close to the ribose of the codon in the wobble position (see Figure 1C/D). (D) When paromomycin is present in addition to tRNA-ASL and codon, the structure is very similar to (C).

Summary of crystallographic data

(a) Data collection

Data set	U6 / ASL	U6 / ASL / Paromomycin	Paromomycin
Beamline	SBC 19ID	SBC 19ID	SBC 19ID
Resolution limit (Å)	3.31	3.11	3.31
Unit cell			
a,b (Å)	401.57	400.80	401.16
c (Å)	176.11	175.88	176.36
No. of observations	968646	1170885	1079968
No. of unique reflections	206478	240896	207340
R_{sym}[1] (%)	12.2 (65.4)	11.7 (57.8)	16.0 (66.4)
Completeness[1] (%)	97.5 (93.6)	95.1 (92.7)	97.8 (98.0)
$\langle I \rangle / \langle \sigma_I \rangle$[1]	10.9 (2.6)	11.9 (2.8)	10.8 (2.7)

[1] Values for the outermost resolution shell are given in parentheses

(b) Refinement

Data set	U6 / ASL	U6 / ASL / Paromomycin	Paromomycin
Resolution range	500 - 3.31	500 - 3.11	500 - 3.31
Reflections excluded for cross-validation	5%	5%	5%
Number of non-hydrogen atoms	52109	52250	51880
Proteins	19178	19178	19237
RNA	32809	32904	32486
Metals	122	126	115
R-factor[2] (%)	23.1 (28.6)	23.2 (27.5)	22.9 (28.2)

σ_A coordinate error[3]	0.56 (0.64)	0.48 (0.51)	0.53 (0.61)
Deviations from ideality			
R.m.s. deviations in bond lengths (Å)	0.007	0.007	0.007
R.m.s deviations in bond angles (°)	1.23	1.21	1.23

[2] Values in parentheses represent the free R-factor

[3] Values in parentheses represent the cross -validated σ_A coordinate error

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26. Crystals of the 30S subunit from *Thermus thermophilus* were grown as previously described (17). A $tRNA^{Phe}$ anticodon stem-loop (ASL) corresponding to the sequence GGGGAUUGAAAAUCCCC, and the U_6 hexanucleotide were synthesized chemically. The ASL was purified by gel-electrophoresis and the U_6 by reverse phase chromatography. Crystals were transferred to a stabilizing buffer containing 26% 2-methyl-2,4-pentanediol (MPD) as described (17). Soaks of equimolar ASL and U_6 were done at a concentration of 100 or 300 μM in the same stabilizing buffer, while paromomycin, if present, was at a concentration of 80 μM. Initial screening of crystals was done at beamlines 14.1 and 14.2 at the Synchrotron Radiation Source at Daresbury Laboratory, where a 3.8 Å resolution data set on one of the soaks was also collected. All data to high resolution were collected at beamline SBC-19ID at the Advanced Photon Source at Argonne National Laboratory, integrated and scaled using HKL-2000 (48). The atomic structure of the 30S subunit (17), omitting various parts near the A site, was used as a starting point for refinement against the three data sets using CNS (49). Initially, rigid body refinement was done using the domains of 16S RNA and the individual proteins as separate rigid objects. This was followed by positional refinement, simulated annealing using torsion angle dynamics, followed by two rounds of grouped B-factor refinement and refinement of the occupancies of metal ions. The ASL (15 and 11 residues in the presence and absence of paromomycin,

respectively), mRNA, and any changes in the 30S subunit, were built into the density in difference Fourier maps using the program O (50) before a final round of refinement.

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ATOM  38422  O   ALA E  95     138.937 117.525   7.942  1.00 44.43       ES5
ATOM  38423  N   PRO E  96     137.335 118.650   9.049  1.00 38.44       ES5
ATOM  38424  CD  PRO E  96     136.248 119.639   9.010  1.00 26.09       ES5
ATOM  38425  CA  PRO E  96     138.078 118.762  10.306  1.00 38.44       ES5
ATOM  38426  CB  PRO E  96     137.216 119.712  11.113  1.00 26.09       ES5
ATOM  38427  CG  PRO E  96     136.707 120.626  10.043  1.00 26.09       ES5
ATOM  38428  C   PRO E  96     138.349 117.452  11.030  1.00 38.44       ES5
ATOM  38429  O   PRO E  96     137.545 116.529  10.994  1.00 38.44       ES5
ATOM  38430  N   GLY E  97     139.496 117.385  11.692  1.00 76.60       ES5
ATOM  38431  CA  GLY E  97     139.864 116.182  12.409  1.00 76.60       ES5
ATOM  38432  C   GLY E  97     140.729 115.326  11.515  1.00 76.60       ES5
ATOM  38433  O   GLY E  97     141.316 114.338  11.960  1.00 76.60       ES5
ATOM  38434  N   THR E  98     140.807 115.717  10.246  1.00 44.00       ES5
ATOM  38435  CA  THR E  98     141.600 114.986   9.261  1.00 44.00       ES5
ATOM  38436  CB  THR E  98     141.266 115.442   7.804  1.00 34.75       ES5
ATOM  38437  OG1 THR E  98     139.922 115.069   7.463  1.00 34.75       ES5
ATOM  38438  CG2 THR E  98     142.207 114.789   6.821  1.00 34.75       ES5
ATOM  38439  C   THR E  98     143.091 115.190   9.528  1.00 44.00       ES5
ATOM  38440  O   THR E  98     143.873 114.236   9.553  1.00 44.00       ES5
ATOM  38441  N   GLY E  99     143.471 116.444   9.736  1.00 55.32       ES5
ATOM  38442  CA  GLY E  99     144.857 116.766  10.000  1.00 55.32       ES5
ATOM  38443  C   GLY E  99     145.603 117.204   8.756  1.00 55.32       ES5
ATOM  38444  O   GLY E  99     145.034 117.320   7.662  1.00 55.32       ES5
ATOM  38445  N   VAL E 100     146.893 117.464   8.930  1.00 49.89       ES5
ATOM  38446  CA  VAL E 100     147.716 117.875   7.811  1.00 49.89       ES5
ATOM  38447  CB  VAL E 100     148.780 118.913   8.205  1.00 53.65       ES5
ATOM  38448  CG1 VAL E 100     149.312 119.589   6.952  1.00 53.65       ES5
ATOM  38449  CG2 VAL E 100     148.196 119.940   9.172  1.00 53.65       ES5
ATOM  38450  C   VAL E 100     148.428 116.631   7.368  1.00 49.89       ES5
ATOM  38451  O   VAL E 100     149.490 116.298   7.894  1.00 49.89       ES5
ATOM  38452  N   ILE E 101     147.824 115.931   6.416  1.00 27.11       ES5
ATOM  38453  CA  ILE E 101     148.410 114.710   5.882  1.00 27.11       ES5
ATOM  38454  CB  ILE E 101     147.319 113.759   5.460  1.00 32.15       ES5
ATOM  38455  CG2 ILE E 101     147.911 112.456   4.960  1.00 32.15       ES5
ATOM  38456  CG1 ILE E 101     146.435 113.509   6.670  1.00 32.15       ES5
ATOM  38457  CD1 ILE E 101     145.170 112.785   6.348  1.00 32.15       ES5
ATOM  38458  C   ILE E 101     149.329 115.013   4.701  1.00 27.11       ES5
ATOM  38459  O   ILE E 101     148.878 115.291   3.580  1.00 27.11       ES5
ATOM  38460  N   ALA E 102     150.628 114.962   4.971  1.00 28.27       ES5
ATOM  38461  CA  ALA E 102     151.614 115.253   3.955  1.00 28.27       ES5
ATOM  38462  CB  ALA E 102     151.531 116.719   3.569  1.00 39.00       ES5
ATOM  38463  C   ALA E 102     153.013 114.937   4.443  1.00 28.27       ES5
ATOM  38464  O   ALA E 102     153.220 114.563   5.599  1.00 28.27       ES5
ATOM  38465  N   GLY E 103     153.974 115.088   3.542  1.00 37.16       ES5
ATOM  38466  CA  GLY E 103     155.352 114.845   3.903  1.00 37.16       ES5
ATOM  38467  C   GLY E 103     155.903 116.098   4.548  1.00 37.16       ES5
ATOM  38468  O   GLY E 103     155.341 117.185   4.389  1.00 37.16       ES5
ATOM  38469  N   ALA E 104     157.004 115.946   5.269  1.00 47.66       ES5
ATOM  38470  CA  ALA E 104     157.626 117.066   5.950  1.00 47.66       ES5
ATOM  38471  CB  ALA E 104     159.077 116.750   6.243  1.00128.90       ES5
ATOM  38472  C   ALA E 104     157.532 118.367   5.162  1.00 47.66       ES5
ATOM  38473  O   ALA E 104     156.957 119.346   5.633  1.00 47.66       ES5
ATOM  38474  N   VAL E 105     158.070 118.376   3.952  1.00 20.63       ES5
ATOM  38475  CA  VAL E 105     158.067 119.594   3.165  1.00 20.63       ES5
ATOM  38476  CB  VAL E 105     158.853 119.397   1.858  1.00 25.99       ES5
ATOM  38477  CG1 VAL E 105     158.738 120.635   0.958  1.00 25.99       ES5
ATOM  38478  CG2 VAL E 105     160.306 119.136   2.197  1.00 25.99       ES5
ATOM  38479  C   VAL E 105     156.694 120.170   2.865  1.00 20.63       ES5
ATOM  38480  O   VAL E 105     156.426 121.334   3.165  1.00 20.63       ES5
ATOM  38481  N   PRO E 106     155.802 119.378   2.270  1.00 32.86       ES5
ATOM  38482  CD  PRO E 106     155.904 117.993   1.792  1.00 58.35       ES5
ATOM  38483  CA  PRO E 106     154.482 119.937   1.982  1.00 32.86       ES5
ATOM  38484  CB  PRO E 106     153.734 118.758   1.380  1.00 58.35       ES5
ATOM  38485  CG  PRO E 106     154.816 117.955   0.757  1.00 58.35       ES5
ATOM  38486  C   PRO E 106     153.854 120.401   3.286  1.00 32.86       ES5
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ATOM  38487  O   PRO E 106     153.213 121.459   3.359  1.00 32.86       ES5
ATOM  38488  N   ARG E 107     154.053 119.595   4.324  1.00 36.37       ES5
ATOM  38489  CA  ARG E 107     153.505 119.906   5.633  1.00 36.37       ES5
ATOM  38490  CB  ARG E 107     153.854 118.814   6.638  1.00 59.32       ES5
ATOM  38491  CG  ARG E 107     153.584 119.210   8.070  1.00 59.32       ES5
ATOM  38492  CD  ARG E 107     153.910 118.082   8.998  1.00 59.32       ES5
ATOM  38493  NE  ARG E 107     152.956 116.991   8.863  1.00 59.32       ES5
ATOM  38494  CZ  ARG E 107     153.303 115.710   8.843  1.00 59.32       ES5
ATOM  38495  NH1 ARG E 107     154.585 115.370   8.943  1.00 59.32       ES5
ATOM  38496  NH2 ARG E 107     152.371 114.770   8.734  1.00 59.32       ES5
ATOM  38497  C   ARG E 107     154.030 121.230   6.132  1.00 36.37       ES5
ATOM  38498  O   ARG E 107     153.329 122.238   6.067  1.00 36.37       ES5
ATOM  38499  N   ALA E 108     155.263 121.208   6.631  1.00 35.56       ES5
ATOM  38500  CA  ALA E 108     155.919 122.397   7.157  1.00 35.56       ES5
ATOM  38501  CB  ALA E 108     157.397 122.326   6.878  1.00 74.24       ES5
ATOM  38502  C   ALA E 108     155.333 123.664   6.548  1.00 35.56       ES5
ATOM  38503  O   ALA E 108     154.978 124.600   7.264  1.00 35.56       ES5
ATOM  38504  N   ILE E 109     155.223 123.680   5.224  1.00 27.41       ES5
ATOM  38505  CA  ILE E 109     154.666 124.817   4.509  1.00 27.41       ES5
ATOM  38506  CB  ILE E 109     154.862 124.658   3.039  1.00 19.31       ES5
ATOM  38507  CG2 ILE E 109     154.100 125.739   2.307  1.00 19.31       ES5
ATOM  38508  CG1 ILE E 109     156.347 124.662   2.738  1.00 19.31       ES5
ATOM  38509  CD1 ILE E 109     156.658 124.520   1.274  1.00 19.31       ES5
ATOM  38510  C   ILE E 109     153.176 124.980   4.734  1.00 27.41       ES5
ATOM  38511  O   ILE E 109     152.692 126.056   5.064  1.00 27.41       ES5
ATOM  38512  N   LEU E 110     152.444 123.903   4.518  1.00 31.50       ES5
ATOM  38513  CA  LEU E 110     151.009 123.928   4.707  1.00 31.50       ES5
ATOM  38514  CB  LEU E 110     150.439 122.556   4.387  1.00  4.36       ES5
ATOM  38515  CG  LEU E 110     150.398 122.322   2.894  1.00  4.36       ES5
ATOM  38516  CD1 LEU E 110     149.916 120.917   2.651  1.00  4.36       ES5
ATOM  38517  CD2 LEU E 110     149.482 123.370   2.240  1.00  4.36       ES5
ATOM  38518  C   LEU E 110     150.610 124.334   6.119  1.00 31.50       ES5
ATOM  38519  O   LEU E 110     149.556 124.942   6.307  1.00 31.50       ES5
ATOM  38520  N   GLU E 111     151.453 123.990   7.098  1.00 58.15       ES5
ATOM  38521  CA  GLU E 111     151.195 124.303   8.502  1.00 58.15       ES5
ATOM  38522  CB  GLU E 111     152.120 123.501   9.416  1.00110.32       ES5
ATOM  38523  CG  GLU E 111     151.833 122.014   9.441  1.00110.32       ES5
ATOM  38524  CD  GLU E 111     152.550 121.297  10.577  1.00110.32       ES5
ATOM  38525  OE1 GLU E 111     153.796 121.390  10.660  1.00110.32       ES5
ATOM  38526  OE2 GLU E 111     151.867 120.636  11.390  1.00110.32       ES5
ATOM  38527  C   GLU E 111     151.334 125.784   8.826  1.00 58.15       ES5
ATOM  38528  O   GLU E 111     150.362 126.421   9.235  1.00 58.15       ES5
ATOM  38529  N   LEU E 112     152.528 126.345   8.656  1.00 26.82       ES5
ATOM  38530  CA  LEU E 112     152.691 127.763   8.946  1.00 26.82       ES5
ATOM  38531  CB  LEU E 112     154.144 128.218   8.842  1.00  7.85       ES5
ATOM  38532  CG  LEU E 112     155.250 127.294   9.348  1.00  7.85       ES5
ATOM  38533  CD1 LEU E 112     156.443 128.159   9.626  1.00  7.85       ES5
ATOM  38534  CD2 LEU E 112     154.868 126.538  10.603  1.00  7.85       ES5
ATOM  38535  C   LEU E 112     151.872 128.485   7.905  1.00 26.82       ES5
ATOM  38536  O   LEU E 112     151.816 129.710   7.870  1.00 26.82       ES5
ATOM  38537  N   ALA E 113     151.246 127.718   7.031  1.00 42.00       ES5
ATOM  38538  CA  ALA E 113     150.421 128.328   6.022  1.00 42.00       ES5
ATOM  38539  CB  ALA E 113     150.066 127.311   4.952  1.00 70.08       ES5
ATOM  38540  C   ALA E 113     149.177 128.802   6.755  1.00 42.00       ES5
ATOM  38541  O   ALA E 113     148.487 129.734   6.329  1.00 42.00       ES5
ATOM  38542  N   GLY E 114     148.919 128.170   7.891  1.00 52.46       ES5
ATOM  38543  CA  GLY E 114     147.747 128.511   8.657  1.00 52.46       ES5
ATOM  38544  C   GLY E 114     146.695 127.474   8.339  1.00 52.46       ES5
ATOM  38545  O   GLY E 114     145.542 127.599   8.745  1.00 52.46       ES5
ATOM  38546  N   VAL E 115     147.102 126.450   7.591  1.00 56.13       ES5
ATOM  38547  CA  VAL E 115     146.222 125.346   7.209  1.00 56.13       ES5
ATOM  38548  CB  VAL E 115     146.751 124.631   5.933  1.00 15.55       ES5
ATOM  38549  CG1 VAL E 115     146.420 123.179   5.987  1.00 15.55       ES5
ATOM  38550  CG2 VAL E 115     146.117 125.231   4.677  1.00 15.55       ES5
ATOM  38551  C   VAL E 115     146.175 124.354   8.372  1.00 56.13       ES5
ATOM  38552  O   VAL E 115     146.987 124.436   9.296  1.00 56.13       ES5
ATOM  38553  N   THR E 116     145.232 123.420   8.340  1.00 67.04       ES5
ATOM  38554  CA  THR E 116     145.142 122.450   9.422  1.00 67.04       ES5
ATOM  38555  CB  THR E 116     144.454 123.083  10.623  1.00 49.00       ES5
ATOM  38556  OG1 THR E 116     144.691 122.274  11.777  1.00 49.00       ES5
ATOM  38557  CG2 THR E 116     142.959 123.199  10.372  1.00 49.00       ES5
ATOM  38558  C   THR E 116     144.421 121.136   9.069  1.00 67.04       ES5
ATOM  38559  O   THR E 116     144.227 120.272   9.927  1.00 67.04       ES5
ATOM  38560  N   ASP E 117     144.037 120.995   7.805  1.00 44.03       ES5
ATOM  38561  CA  ASP E 117     143.350 119.806   7.325  1.00 44.03       ES5
ATOM  38562  CB  ASP E 117     141.878 119.851   7.731  1.00103.20       ES5
ATOM  38563  CG  ASP E 117     141.642 119.324   9.126  1.00103.20       ES5
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ATOM  38564  OD1 ASP E 117     141.592 118.089   9.290  1.00103.20       ES5
ATOM  38565  OD2 ASP E 117     141.513 120.144  10.059  1.00103.20       ES5
ATOM  38566  C   ASP E 117     143.435 119.673   5.807  1.00 44.03       ES5
ATOM  38567  O   ASP E 117     142.718 120.371   5.080  1.00 44.03       ES5
ATOM  38568  N   ILE E 118     144.325 118.803   5.328  1.00 50.45       ES5
ATOM  38569  CA  ILE E 118     144.434 118.556   3.892  1.00 50.45       ES5
ATOM  38570  CB  ILE E 118     145.446 119.443   3.154  1.00 26.70       ES5
ATOM  38571  CG2 ILE E 118     144.918 119.780   1.763  1.00 26.70       ES5
ATOM  38572  CG1 ILE E 118     145.726 120.720   3.907  1.00 26.70       ES5
ATOM  38573  CD1 ILE E 118     146.733 121.571   3.169  1.00 26.70       ES5
ATOM  38574  C   ILE E 118     144.942 117.161   3.635  1.00 50.45       ES5
ATOM  38575  O   ILE E 118     145.495 116.505   4.522  1.00 50.45       ES5
ATOM  38576  N   LEU E 119     144.759 116.738   2.388  1.00 48.79       ES5
ATOM  38577  CA  LEU E 119     145.220 115.448   1.897  1.00 48.79       ES5
ATOM  38578  CB  LEU E 119     144.041 114.622   1.379  1.00 32.34       ES5
ATOM  38579  CG  LEU E 119     142.984 114.282   2.434  1.00 32.34       ES5
ATOM  38580  CD1 LEU E 119     141.766 113.663   1.766  1.00 32.34       ES5
ATOM  38581  CD2 LEU E 119     143.584 113.348   3.481  1.00 32.34       ES5
ATOM  38582  C   LEU E 119     146.156 115.829   0.752  1.00 48.79       ES5
ATOM  38583  O   LEU E 119     145.754 116.528  -0.185  1.00 48.79       ES5
ATOM  38584  N   THR E 120     147.405 115.387   0.837  1.00 49.68       ES5
ATOM  38585  CA  THR E 120     148.402 115.720  -0.172  1.00 49.68       ES5
ATOM  38586  CB  THR E 120     149.508 116.539   0.425  1.00 38.68       ES5
ATOM  38587  OG1 THR E 120     150.086 115.790   1.496  1.00 38.68       ES5
ATOM  38588  CG2 THR E 120     148.993 117.836   0.959  1.00 38.68       ES5
ATOM  38589  C   THR E 120     149.097 114.498  -0.711  1.00 49.68       ES5
ATOM  38590  O   THR E 120     149.074 113.436  -0.093  1.00 49.68       ES5
ATOM  38591  N   LYS E 121     149.755 114.662  -1.850  1.00 25.64       ES5
ATOM  38592  CA  LYS E 121     150.502 113.564  -2.428  1.00 25.64       ES5
ATOM  38593  CB  LYS E 121     149.592 112.711  -3.294  1.00 56.27       ES5
ATOM  38594  CG  LYS E 121     150.289 111.511  -3.894  1.00 56.27       ES5
ATOM  38595  CD  LYS E 121     151.077 110.740  -2.858  1.00 56.27       ES5
ATOM  38596  CE  LYS E 121     151.595 109.447  -3.452  1.00 56.27       ES5
ATOM  38597  NZ  LYS E 121     152.472 108.695  -2.514  1.00 56.27       ES5
ATOM  38598  C   LYS E 121     151.685 114.059  -3.240  1.00 25.64       ES5
ATOM  38599  O   LYS E 121     151.546 114.930  -4.096  1.00 25.64       ES5
ATOM  38600  N   GLU E 122     152.861 113.520  -2.952  1.00 37.24       ES5
ATOM  38601  CA  GLU E 122     154.047 113.912  -3.696  1.00 37.24       ES5
ATOM  38602  CB  GLU E 122     155.285 113.886  -2.799  1.00 71.22       ES5
ATOM  38603  CG  GLU E 122     155.248 114.854  -1.641  1.00 71.22       ES5
ATOM  38604  CD  GLU E 122     156.634 115.146  -1.087  1.00 71.22       ES5
ATOM  38605  OE1 GLU E 122     157.468 115.716  -1.820  1.00 71.22       ES5
ATOM  38606  OE2 GLU E 122     156.902 114.809   0.081  1.00 71.22       ES5
ATOM  38607  C   GLU E 122     154.243 112.964  -4.886  1.00 37.24       ES5
ATOM  38608  O   GLU E 122     154.472 111.761  -4.735  1.00 37.24       ES5
ATOM  38609  N   LEU E 123     154.147 113.502  -6.085  1.00 31.06       ES5
ATOM  38610  CA  LEU E 123     154.322 112.665  -7.242  1.00 31.06       ES5
ATOM  38611  CB  LEU E 123     153.057 112.719  -8.091  1.00 13.02       ES5
ATOM  38612  CG  LEU E 123     151.812 112.092  -7.457  1.00 13.02       ES5
ATOM  38613  CD1 LEU E 123     150.862 111.657  -8.557  1.00 13.02       ES5
ATOM  38614  CD2 LEU E 123     152.186 110.889  -6.626  1.00 13.02       ES5
ATOM  38615  C   LEU E 123     155.541 113.074  -8.059  1.00 31.06       ES5
ATOM  38616  O   LEU E 123     155.927 114.240  -8.062  1.00 31.06       ES5
ATOM  38617  N   GLY E 124     156.150 112.111  -8.745  1.00 40.23       ES5
ATOM  38618  CA  GLY E 124     157.317 112.401  -9.564  1.00 40.23       ES5
ATOM  38619  C   GLY E 124     158.556 112.652  -8.733  1.00 40.23       ES5
ATOM  38620  O   GLY E 124     158.702 112.087  -7.652  1.00 40.23       ES5
ATOM  38621  N   SER E 125     159.459 113.484  -9.235  1.00 29.62       ES5
ATOM  38622  CA  SER E 125     160.674 113.817  -8.498  1.00 29.62       ES5
ATOM  38623  CB  SER E 125     161.355 115.027  -9.126  1.00 48.23       ES5
ATOM  38624  OG  SER E 125     162.157 115.696  -8.169  1.00 48.23       ES5
ATOM  38625  C   SER E 125     160.327 114.160  -7.063  1.00 29.62       ES5
ATOM  38626  O   SER E 125     159.354 114.857  -6.809  1.00 29.62       ES5
ATOM  38627  N   ARG E 126     161.114 113.689  -6.114  1.00 34.18       ES5
ATOM  38628  CA  ARG E 126     160.821 114.009  -4.726  1.00 34.18       ES5
ATOM  38629  CB  ARG E 126     160.825 112.739  -3.886  1.00 42.16       ES5
ATOM  38630  CG  ARG E 126     159.757 111.752  -4.264  1.00 42.16       ES5
ATOM  38631  CD  ARG E 126     158.395 112.186  -3.800  1.00 42.16       ES5
ATOM  38632  NE  ARG E 126     157.432 111.105  -3.981  1.00 42.16       ES5
ATOM  38633  CZ  ARG E 126     157.464 109.943  -3.329  1.00 42.16       ES5
ATOM  38634  NH1 ARG E 126     158.417 109.690  -2.427  1.00 42.16       ES5
ATOM  38635  NH2 ARG E 126     156.536 109.029  -3.591  1.00 42.16       ES5
ATOM  38636  C   ARG E 126     161.827 114.996  -4.148  1.00 34.18       ES5
ATOM  38637  O   ARG E 126     161.961 115.116  -2.932  1.00 34.18       ES5
ATOM  38638  N   ASN E 127     162.533 115.714  -5.007  1.00 38.18       ES5
ATOM  38639  CA  ASN E 127     163.512 116.650  -4.499  1.00 38.18       ES5
ATOM  38640  CB  ASN E 127     164.303 117.293  -5.623  1.00 67.25       ES5
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ATOM  38641  CG  ASN E 127     165.420 118.150  -5.096  1.00 67.25       ES5
ATOM  38642  OD1 ASN E 127     165.186 119.133  -4.382  1.00 67.25       ES5
ATOM  38643  ND2 ASN E 127     166.649 117.772  -5.418  1.00 67.25       ES5
ATOM  38644  C   ASN E 127     162.869 117.745  -3.676  1.00 38.18       ES5
ATOM  38645  O   ASN E 127     162.230 118.639  -4.223  1.00 38.18       ES5
ATOM  38646  N   PRO E 128     163.048 117.701  -2.348  1.00 17.25       ES5
ATOM  38647  CD  PRO E 128     164.029 116.947  -1.564  1.00 19.31       ES5
ATOM  38648  CA  PRO E 128     162.451 118.728  -1.513  1.00 17.25       ES5
ATOM  38649  CB  PRO E 128     163.261 118.641  -0.220  1.00 19.31       ES5
ATOM  38650  CG  PRO E 128     164.503 118.009  -0.621  1.00 19.31       ES5
ATOM  38651  C   PRO E 128     162.489 120.104  -2.135  1.00 17.25       ES5
ATOM  38652  O   PRO E 128     161.443 120.721  -2.327  1.00 17.25       ES5
ATOM  38653  N   ILE E 129     163.667 120.596  -2.485  1.00 12.17       ES5
ATOM  38654  CA  ILE E 129     163.683 121.935  -3.044  1.00 12.17       ES5
ATOM  38655  CB  ILE E 129     165.052 122.323  -3.519  1.00 21.41       ES5
ATOM  38656  CG2 ILE E 129     165.027 123.759  -4.019  1.00 21.41       ES5
ATOM  38657  CG1 ILE E 129     166.028 122.151  -2.356  1.00 21.41       ES5
ATOM  38658  CD1 ILE E 129     167.431 122.582  -2.659  1.00 21.41       ES5
ATOM  38659  C   ILE E 129     162.684 122.125  -4.167  1.00 12.17       ES5
ATOM  38660  O   ILE E 129     162.059 123.169  -4.259  1.00 12.17       ES5
ATOM  38661  N   ASN E 130     162.501 121.127  -5.013  1.00 28.92       ES5
ATOM  38662  CA  ASN E 130     161.535 121.293  -6.087  1.00 28.92       ES5
ATOM  38663  CB  ASN E 130     161.867 120.385  -7.258  1.00 50.61       ES5
ATOM  38664  CG  ASN E 130     163.167 120.748  -7.896  1.00 50.61       ES5
ATOM  38665  OD1 ASN E 130     163.384 121.895  -8.291  1.00 50.61       ES5
ATOM  38666  ND2 ASN E 130     164.054 119.774  -8.000  1.00 50.61       ES5
ATOM  38667  C   ASN E 130     160.111 121.046  -5.623  1.00 28.92       ES5
ATOM  38668  O   ASN E 130     159.164 121.593  -6.186  1.00 28.92       ES5
ATOM  38669  N   ILE E 131     159.955 120.208  -4.610  1.00 39.79       ES5
ATOM  38670  CA  ILE E 131     158.634 119.949  -4.070  1.00 39.79       ES5
ATOM  38671  CB  ILE E 131     158.680 118.772  -3.085  1.00 33.35       ES5
ATOM  38672  CG2 ILE E 131     157.690 118.978  -1.955  1.00 33.35       ES5
ATOM  38673  CG1 ILE E 131     158.388 117.481  -3.837  1.00 33.35       ES5
ATOM  38674  CD1 ILE E 131     156.977 117.427  -4.418  1.00 33.35       ES5
ATOM  38675  C   ILE E 131     158.174 121.228  -3.356  1.00 39.79       ES5
ATOM  38676  O   ILE E 131     157.017 121.644  -3.465  1.00 39.79       ES5
ATOM  38677  N   ALA E 132     159.099 121.854  -2.634  1.00 26.04       ES5
ATOM  38678  CA  ALA E 132     158.795 123.075  -1.923  1.00 26.04       ES5
ATOM  38679  CB  ALA E 132     160.046 123.626  -1.287  1.00 52.03       ES5
ATOM  38680  C   ALA E 132     158.225 124.060  -2.927  1.00 26.04       ES5
ATOM  38681  O   ALA E 132     157.067 124.454  -2.816  1.00 26.04       ES5
ATOM  38682  N   TYR E 133     159.026 124.440  -3.919  1.00 31.11       ES5
ATOM  38683  CA  TYR E 133     158.562 125.392  -4.927  1.00 31.11       ES5
ATOM  38684  CB  TYR E 133     159.577 125.540  -6.054  1.00 88.47       ES5
ATOM  38685  CG  TYR E 133     160.849 126.253  -5.681  1.00 88.47       ES5
ATOM  38686  CD1 TYR E 133     161.989 126.105  -6.464  1.00 88.47       ES5
ATOM  38687  CE1 TYR E 133     163.173 126.732  -6.142  1.00 88.47       ES5
ATOM  38688  CD2 TYR E 133     160.924 127.064  -4.554  1.00 88.47       ES5
ATOM  38689  CE2 TYR E 133     162.109 127.704  -4.218  1.00 88.47       ES5
ATOM  38690  CZ  TYR E 133     163.234 127.528  -5.021  1.00 88.47       ES5
ATOM  38691  OH  TYR E 133     164.436 128.124  -4.711  1.00 88.47       ES5
ATOM  38692  C   TYR E 133     157.237 124.952  -5.524  1.00 31.11       ES5
ATOM  38693  O   TYR E 133     156.422 125.778  -5.936  1.00 31.11       ES5
ATOM  38694  N   ALA E 134     157.029 123.644  -5.585  1.00 27.40       ES5
ATOM  38695  CA  ALA E 134     155.792 123.116  -6.127  1.00 27.40       ES5
ATOM  38696  CB  ALA E 134     155.874 121.608  -6.251  1.00179.29       ES5
ATOM  38697  C   ALA E 134     154.671 123.507  -5.182  1.00 27.40       ES5
ATOM  38698  O   ALA E 134     153.751 124.210  -5.584  1.00 27.40       ES5
ATOM  38699  N   THR E 135     154.755 123.054  -3.929  1.00 27.71       ES5
ATOM  38700  CA  THR E 135     153.741 123.380  -2.938  1.00 27.71       ES5
ATOM  38701  CB  THR E 135     154.188 123.037  -1.512  1.00 34.31       ES5
ATOM  38702  OG1 THR E 135     154.056 121.630  -1.290  1.00 34.31       ES5
ATOM  38703  CG2 THR E 135     153.333 123.773  -0.502  1.00 34.31       ES5
ATOM  38704  C   THR E 135     153.459 124.868  -2.993  1.00 27.71       ES5
ATOM  38705  O   THR E 135     152.308 125.280  -3.120  1.00 27.71       ES5
ATOM  38706  N   MET E 136     154.508 125.678  -2.895  1.00 30.20       ES5
ATOM  38707  CA  MET E 136     154.334 127.122  -2.956  1.00 30.20       ES5
ATOM  38708  CB  MET E 136     155.686 127.814  -3.052  1.00 66.18       ES5
ATOM  38709  CG  MET E 136     156.412 127.830  -1.732  1.00 66.18       ES5
ATOM  38710  SD  MET E 136     155.431 128.699  -0.509  1.00 66.18       ES5
ATOM  38711  CE  MET E 136     156.111 130.354  -0.668  1.00 66.18       ES5
ATOM  38712  C   MET E 136     153.465 127.498  -4.145  1.00 30.20       ES5
ATOM  38713  O   MET E 136     152.476 128.204  -3.995  1.00 30.20       ES5
ATOM  38714  N   GLU E 137     153.823 127.022  -5.330  1.00 19.98       ES5
ATOM  38715  CA  GLU E 137     153.017 127.317  -6.503  1.00 19.98       ES5
ATOM  38716  CB  GLU E 137     153.561 126.611  -7.729  1.00 59.40       ES5
ATOM  38717  CG  GLU E 137     154.233 127.569  -8.672  1.00 59.40       ES5
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ATOM  38718  CD  GLU E 137     153.378 128.781  -8.936  1.00 59.40       ES5
ATOM  38719  OE1 GLU E 137     152.183 128.590  -9.246  1.00 59.40       ES5
ATOM  38720  OE2 GLU E 137     153.901 129.915  -8.834  1.00 59.40       ES5
ATOM  38721  C   GLU E 137     151.602 126.859  -6.253  1.00 19.98       ES5
ATOM  38722  O   GLU E 137     150.663 127.615  -6.433  1.00 19.98       ES5
ATOM  38723  N   ALA E 138     151.456 125.614  -5.828  1.00 50.11       ES5
ATOM  38724  CA  ALA E 138     150.142 125.084  -5.546  1.00 50.11       ES5
ATOM  38725  CB  ALA E 138     150.248 123.890  -4.630  1.00 85.36       ES5
ATOM  38726  C   ALA E 138     149.318 126.174  -4.886  1.00 50.11       ES5
ATOM  38727  O   ALA E 138     148.320 126.620  -5.443  1.00 50.11       ES5
ATOM  38728  N   LEU E 139     149.750 126.627  -3.716  1.00 39.27       ES5
ATOM  38729  CA  LEU E 139     149.016 127.661  -3.001  1.00 39.27       ES5
ATOM  38730  CB  LEU E 139     149.761 128.045  -1.725  1.00 21.15       ES5
ATOM  38731  CG  LEU E 139     150.114 126.834  -0.858  1.00 21.15       ES5
ATOM  38732  CD1 LEU E 139     150.952 127.255   0.335  1.00 21.15       ES5
ATOM  38733  CD2 LEU E 139     148.835 126.146  -0.404  1.00 21.15       ES5
ATOM  38734  C   LEU E 139     148.754 128.903  -3.851  1.00 39.27       ES5
ATOM  38735  O   LEU E 139     147.604 129.317  -3.998  1.00 39.27       ES5
ATOM  38736  N   ARG E 140     149.802 129.491  -4.420  1.00 39.89       ES5
ATOM  38737  CA  ARG E 140     149.640 130.687  -5.244  1.00 39.89       ES5
ATOM  38738  CB  ARG E 140     150.886 130.948  -6.091  1.00 69.48       ES5
ATOM  38739  CG  ARG E 140     152.061 131.577  -5.386  1.00 69.48       ES5
ATOM  38740  CD  ARG E 140     153.061 132.095  -6.409  1.00 69.48       ES5
ATOM  38741  NE  ARG E 140     154.242 132.662  -5.774  1.00 69.48       ES5
ATOM  38742  CZ  ARG E 140     155.143 131.948  -5.106  1.00 69.48       ES5
ATOM  38743  NH1 ARG E 140     154.998 130.633  -4.986  1.00 69.48       ES5
ATOM  38744  NH2 ARG E 140     156.193 132.548  -4.556  1.00 69.48       ES5
ATOM  38745  C   ARG E 140     148.452 130.652  -6.204  1.00 39.89       ES5
ATOM  38746  O   ARG E 140     147.918 131.700  -6.569  1.00 39.89       ES5
ATOM  38747  N   GLN E 141     148.039 129.463  -6.631  1.00 27.38       ES5
ATOM  38748  CA  GLN E 141     146.947 129.378  -7.584  1.00 27.38       ES5
ATOM  38749  CB  GLN E 141     147.262 128.311  -8.611  1.00 62.13       ES5
ATOM  38750  CG  GLN E 141     148.549 128.567  -9.328  1.00 62.13       ES5
ATOM  38751  CD  GLN E 141     148.748 127.622 -10.482  1.00 62.13       ES5
ATOM  38752  OE1 GLN E 141     147.951 127.600 -11.421  1.00 62.13       ES5
ATOM  38753  NE2 GLN E 141     149.810 126.827 -10.422  1.00 62.13       ES5
ATOM  38754  C   GLN E 141     145.556 129.146  -7.012  1.00 27.38       ES5
ATOM  38755  O   GLN E 141     144.562 129.214  -7.744  1.00 27.38       ES5
ATOM  38756  N   LEU E 142     145.469 128.872  -5.717  1.00 47.63       ES5
ATOM  38757  CA  LEU E 142     144.170 128.650  -5.100  1.00 47.63       ES5
ATOM  38758  CB  LEU E 142     144.327 128.478  -3.597  1.00 21.29       ES5
ATOM  38759  CG  LEU E 142     145.013 127.191  -3.158  1.00 21.29       ES5
ATOM  38760  CD1 LEU E 142     144.983 127.093  -1.631  1.00 21.29       ES5
ATOM  38761  CD2 LEU E 142     144.294 126.007  -3.798  1.00 21.29       ES5
ATOM  38762  C   LEU E 142     143.248 129.830  -5.376  1.00 47.63       ES5
ATOM  38763  O   LEU E 142     143.715 130.965  -5.502  1.00 47.63       ES5
ATOM  38764  N   ARG E 143     141.945 129.565  -5.466  1.00 32.41       ES5
ATOM  38765  CA  ARG E 143     140.969 130.619  -5.721  1.00 32.41       ES5
ATOM  38766  CB  ARG E 143     140.607 130.652  -7.204  1.00 49.35       ES5
ATOM  38767  CG  ARG E 143     141.766 131.042  -8.085  1.00 49.35       ES5
ATOM  38768  CD  ARG E 143     142.305 132.379  -7.649  1.00 49.35       ES5
ATOM  38769  NE  ARG E 143     143.763 132.424  -7.680  1.00 49.35       ES5
ATOM  38770  CZ  ARG E 143     144.479 132.737  -8.753  1.00 49.35       ES5
ATOM  38771  NH1 ARG E 143     143.861 133.037  -9.891  1.00 49.35       ES5
ATOM  38772  NH2 ARG E 143     145.810 132.752  -8.683  1.00 49.35       ES5
ATOM  38773  C   ARG E 143     139.698 130.472  -4.898  1.00 32.41       ES5
ATOM  38774  O   ARG E 143     139.204 129.360  -4.705  1.00 32.41       ES5
ATOM  38775  N   THR E 144     139.191 131.599  -4.395  1.00 33.40       ES5
ATOM  38776  CA  THR E 144     137.959 131.614  -3.616  1.00 33.40       ES5
ATOM  38777  CB  THR E 144     137.902 132.804  -2.642  1.00201.26       ES5
ATOM  38778  OG1 THR E 144     138.921 132.653  -1.647  1.00201.26       ES5
ATOM  38779  CG2 THR E 144     136.538 132.877  -1.964  1.00201.26       ES5
ATOM  38780  C   THR E 144     136.851 131.767  -4.637  1.00 33.40       ES5
ATOM  38781  O   THR E 144     137.087 132.297  -5.728  1.00 33.40       ES5
ATOM  38782  N   LYS E 145     135.649 131.296  -4.303  1.00 48.34       ES5
ATOM  38783  CA  LYS E 145     134.536 131.397  -5.241  1.00 48.34       ES5
ATOM  38784  CB  LYS E 145     133.221 130.969  -4.597  1.00 77.76       ES5
ATOM  38785  CG  LYS E 145     132.046 131.129  -5.547  1.00 77.76       ES5
ATOM  38786  CD  LYS E 145     130.872 130.244  -5.178  1.00 77.76       ES5
ATOM  38787  CE  LYS E 145     131.208 128.770  -5.380  1.00 77.76       ES5
ATOM  38788  NZ  LYS E 145     130.062 127.865  -5.050  1.00 77.76       ES5
ATOM  38789  C   LYS E 145     134.439 132.829  -5.720  1.00 48.34       ES5
ATOM  38790  O   LYS E 145     134.004 133.104  -6.836  1.00 48.34       ES5
ATOM  38791  N   ALA E 146     134.873 133.739  -4.863  1.00 46.58       ES5
ATOM  38792  CA  ALA E 146     134.862 135.151  -5.190  1.00 46.58       ES5
ATOM  38793  CB  ALA E 146     135.549 135.923  -4.095  1.00  2.26       ES5
ATOM  38794  C   ALA E 146     135.589 135.374  -6.509  1.00 46.58       ES5
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ATOM  38795  O   ALA E 146     134.979 135.498  -7.573  1.00 46.58       ES5
ATOM  38796  N   ASP E 147     136.913 135.410  -6.404  1.00 30.27       ES5
ATOM  38797  CA  ASP E 147     137.815 135.629  -7.523  1.00 30.27       ES5
ATOM  38798  CB  ASP E 147     139.194 135.082  -7.162  1.00 74.37       ES5
ATOM  38799  CG  ASP E 147     139.356 134.864  -5.662  1.00 74.37       ES5
ATOM  38800  OD1 ASP E 147     140.361 135.340  -5.089  1.00 74.37       ES5
ATOM  38801  OD2 ASP E 147     138.478 134.211  -5.055  1.00 74.37       ES5
ATOM  38802  C   ASP E 147     137.291 134.962  -8.777  1.00 30.27       ES5
ATOM  38803  O   ASP E 147     137.257 135.555  -9.854  1.00 30.27       ES5
ATOM  38804  N   VAL E 148     136.862 133.722  -8.628  1.00 27.17       ES5
ATOM  38805  CA  VAL E 148     136.350 132.989  -9.763  1.00 27.17       ES5
ATOM  38806  CB  VAL E 148     135.784 131.633  -9.324  1.00 56.29       ES5
ATOM  38807  CG1 VAL E 148     135.603 130.730 -10.540  1.00 56.29       ES5
ATOM  38808  CG2 VAL E 148     136.701 131.004  -8.280  1.00 56.29       ES5
ATOM  38809  C   VAL E 148     135.245 133.796 -10.428  1.00 27.17       ES5
ATOM  38810  O   VAL E 148     135.390 134.238 -11.570  1.00 27.17       ES5
ATOM  38811  N   GLU E 149     134.149 133.986  -9.693  1.00 46.60       ES5
ATOM  38812  CA  GLU E 149     132.996 134.729 -10.189  1.00 46.60       ES5
ATOM  38813  CB  GLU E 149     131.852 134.696  -9.173  1.00201.26       ES5
ATOM  38814  CG  GLU E 149     132.113 135.520  -7.922  1.00201.26       ES5
ATOM  38815  CD  GLU E 149     130.874 135.699  -7.066  1.00201.26       ES5
ATOM  38816  OE1 GLU E 149     130.965 136.382  -6.024  1.00201.26       ES5
ATOM  38817  OE2 GLU E 149     129.809 135.161  -7.435  1.00201.26       ES5
ATOM  38818  C   GLU E 149     133.406 136.166 -10.426  1.00 46.60       ES5
ATOM  38819  O   GLU E 149     132.806 136.876 -11.239  1.00 46.60       ES5
ATOM  38820  N   ARG E 150     134.439 136.586  -9.700  1.00 37.34       ES5
ATOM  38821  CA  ARG E 150     134.956 137.940  -9.811  1.00 37.34       ES5
ATOM  38822  CB  ARG E 150     135.949 138.218  -8.677  1.00137.96       ES5
ATOM  38823  CG  ARG E 150     135.886 139.633  -8.116  1.00137.96       ES5
ATOM  38824  CD  ARG E 150     136.261 140.668  -9.160  1.00137.96       ES5
ATOM  38825  NE  ARG E 150     136.059 142.036  -8.688  1.00137.96       ES5
ATOM  38826  CZ  ARG E 150     136.710 142.587  -7.668  1.00137.96       ES5
ATOM  38827  NH1 ARG E 150     137.617 141.887  -6.998  1.00137.96       ES5
ATOM  38828  NH2 ARG E 150     136.453 143.843  -7.317  1.00137.96       ES5
ATOM  38829  C   ARG E 150     135.634 138.101 -11.163  1.00 37.34       ES5
ATOM  38830  O   ARG E 150     135.668 139.190 -11.714  1.00 37.34       ES5
ATOM  38831  N   LEU E 151     136.150 137.002 -11.707  1.00 37.60       ES5
ATOM  38832  CA  LEU E 151     136.830 137.039 -12.998  1.00 37.60       ES5
ATOM  38833  CB  LEU E 151     137.812 135.877 -13.144  1.00 35.75       ES5
ATOM  38834  CG  LEU E 151     139.082 135.834 -12.300  1.00 35.75       ES5
ATOM  38835  CD1 LEU E 151     140.080 134.965 -13.031  1.00 35.75       ES5
ATOM  38836  CD2 LEU E 151     139.669 137.235 -12.091  1.00 35.75       ES5
ATOM  38837  C   LEU E 151     135.908 136.995 -14.188  1.00 37.60       ES5
ATOM  38838  O   LEU E 151     136.324 137.310 -15.294  1.00 37.60       ES5
ATOM  38839  N   ARG E 152     134.656 136.625 -13.966  1.00 56.23       ES5
ATOM  38840  CA  ARG E 152     133.722 136.502 -15.072  1.00 56.23       ES5
ATOM  38841  CB  ARG E 152     133.174 135.094 -15.058  1.00 46.73       ES5
ATOM  38842  CG  ARG E 152     134.139 134.121 -14.453  1.00 46.73       ES5
ATOM  38843  CD  ARG E 152     133.509 132.763 -14.420  1.00 46.73       ES5
ATOM  38844  NE  ARG E 152     134.398 131.737 -13.895  1.00 46.73       ES5
ATOM  38845  CZ  ARG E 152     134.050 130.461 -13.784  1.00 46.73       ES5
ATOM  38846  NH1 ARG E 152     132.832 130.076 -14.161  1.00 46.73       ES5
ATOM  38847  NH2 ARG E 152     134.921 129.573 -13.315  1.00 46.73       ES5
ATOM  38848  C   ARG E 152     132.557 137.493 -15.163  1.00 56.23       ES5
ATOM  38849  O   ARG E 152     131.533 137.174 -15.766  1.00 56.23       ES5
ATOM  38850  N   LYS E 153     132.694 138.682 -14.585  1.00 92.75       ES5
ATOM  38851  CA  LYS E 153     131.609 139.658 -14.652  1.00 92.75       ES5
ATOM  38852  CB  LYS E 153     131.629 140.576 -13.424  1.00149.41       ES5
ATOM  38853  CG  LYS E 153     130.445 141.539 -13.353  1.00149.41       ES5
ATOM  38854  CD  LYS E 153     130.525 142.454 -12.140  1.00149.41       ES5
ATOM  38855  CE  LYS E 153     129.368 143.437 -12.121  1.00149.41       ES5
ATOM  38856  NZ  LYS E 153     129.418 144.315 -10.925  1.00149.41       ES5
ATOM  38857  C   LYS E 153     131.704 140.493 -15.931  1.00 92.75       ES5
ATOM  38858  O   LYS E 153     131.457 139.989 -17.027  1.00 92.75       ES5
ATOM  38859  N   GLY E 154     132.057 141.768 -15.786  1.00201.26       ES5
ATOM  38860  CA  GLY E 154     132.182 142.647 -16.938  1.00201.26       ES5
ATOM  38861  C   GLY E 154     130.880 143.300 -17.371  1.00201.26       ES5
ATOM  38862  O   GLY E 154     129.818 142.943 -16.816  1.00201.26       ES5
ATOM  38863  OXT GLY E 154     130.920 144.169 -18.272  1.00156.97       ES5
TER   38863       GLY E 154                                               ES5
ATOM  38864  CB  MET F   1     156.067 114.303 -84.960  1.00150.75       FS6
ATOM  38865  CG  MET F   1     155.552 113.266 -85.932  1.00150.75       FS6
ATOM  38866  SD  MET F   1     156.893 112.421 -86.782  1.00150.75       FS6
ATOM  38867  CE  MET F   1     157.257 113.599 -88.083  1.00150.75       FS6
ATOM  38868  C   MET F   1     157.544 114.880 -83.043  1.00116.89       FS6
ATOM  38869  O   MET F   1     156.821 115.791 -82.645  1.00116.89       FS6
ATOM  38870  N   MET F   1     156.197 112.792 -83.002  1.00116.89       FS6
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ATOM  38871  CA  MET F   1     156.968 113.734 -83.863  1.00116.89      FS6
ATOM  38872  N   ARG F   2     158.847 114.837 -82.794  1.00 60.42      FS6
ATOM  38873  CA  ARG F   2     159.490 115.889 -82.019  1.00 60.42      FS6
ATOM  38874  CB  ARG F   2     160.039 115.323 -80.708  1.00109.43      FS6
ATOM  38875  CG  ARG F   2     158.980 114.736 -79.781  1.00109.43      FS6
ATOM  38876  CD  ARG F   2     159.628 114.053 -78.585  1.00109.43      FS6
ATOM  38877  NE  ARG F   2     158.659 113.363 -77.739  1.00109.43      FS6
ATOM  38878  CZ  ARG F   2     158.967 112.369 -76.908  1.00109.43      FS6
ATOM  38879  NH1 ARG F   2     160.217 111.943 -76.812  1.00109.43      FS6
ATOM  38880  NH2 ARG F   2     158.025 111.797 -76.172  1.00109.43      FS6
ATOM  38881  C   ARG F   2     160.614 116.532 -82.818  1.00 60.42      FS6
ATOM  38882  O   ARG F   2     161.246 115.888 -83.661  1.00 60.42      FS6
ATOM  38883  N   ARG F   3     160.847 117.811 -82.545  1.00 55.54      FS6
ATOM  38884  CA  ARG F   3     161.881 118.576 -83.225  1.00 55.54      FS6
ATOM  38885  CB  ARG F   3     161.470 120.048 -83.314  1.00201.26      FS6
ATOM  38886  CG  ARG F   3     160.117 120.275 -83.966  1.00201.26      FS6
ATOM  38887  CD  ARG F   3     159.688 121.731 -83.867  1.00201.26      FS6
ATOM  38888  NE  ARG F   3     160.535 122.621 -84.655  1.00201.26      FS6
ATOM  38889  CZ  ARG F   3     160.417 123.945 -84.665  1.00201.26      FS6
ATOM  38890  NH1 ARG F   3     159.487 124.533 -83.925  1.00201.26      FS6
ATOM  38891  NH2 ARG F   3     161.222 124.682 -85.417  1.00201.26      FS6
ATOM  38892  C   ARG F   3     163.201 118.459 -82.476  1.00 55.54      FS6
ATOM  38893  O   ARG F   3     163.270 118.680 -81.265  1.00 55.54      FS6
ATOM  38894  N   TYR F   4     164.251 118.106 -83.205  1.00 65.85      FS6
ATOM  38895  CA  TYR F   4     165.564 117.967 -82.608  1.00 65.85      FS6
ATOM  38896  CB  TYR F   4     166.063 116.532 -82.750  1.00 75.63      FS6
ATOM  38897  CG  TYR F   4     165.144 115.492 -82.164  1.00 75.63      FS6
ATOM  38898  CD1 TYR F   4     164.661 115.608 -80.860  1.00 75.63      FS6
ATOM  38899  CE1 TYR F   4     163.838 114.630 -80.305  1.00 75.63      FS6
ATOM  38900  CD2 TYR F   4     164.779 114.371 -82.902  1.00 75.63      FS6
ATOM  38901  CE2 TYR F   4     163.958 113.389 -82.357  1.00 75.63      FS6
ATOM  38902  CZ  TYR F   4     163.493 113.524 -81.060  1.00 75.63      FS6
ATOM  38903  OH  TYR F   4     162.688 112.546 -80.527  1.00 75.63      FS6
ATOM  38904  C   TYR F   4     166.545 118.896 -83.299  1.00 65.85      FS6
ATOM  38905  O   TYR F   4     166.161 119.882 -83.919  1.00 65.85      FS6
ATOM  38906  N   GLU F   5     167.820 118.561 -83.173  1.00 74.42      FS6
ATOM  38907  CA  GLU F   5     168.907 119.304 -83.783  1.00 74.42      FS6
ATOM  38908  CB  GLU F   5     169.353 120.448 -82.870  1.00 80.10      FS6
ATOM  38909  CG  GLU F   5     168.373 121.617 -82.861  1.00 80.10      FS6
ATOM  38910  CD  GLU F   5     168.782 122.750 -81.931  1.00 80.10      FS6
ATOM  38911  OE1 GLU F   5     169.971 123.134 -81.943  1.00 80.10      FS6
ATOM  38912  OE2 GLU F   5     167.912 123.271 -81.196  1.00 80.10      FS6
ATOM  38913  C   GLU F   5     169.997 118.264 -83.943  1.00 74.42      FS6
ATOM  38914  O   GLU F   5     170.404 117.635 -82.971  1.00 74.42      FS6
ATOM  38915  N   VAL F   6     170.443 118.055 -85.174  1.00 76.89      FS6
ATOM  38916  CA  VAL F   6     171.467 117.058 -85.429  1.00 76.89      FS6
ATOM  38917  CB  VAL F   6     171.099 116.177 -86.624  1.00 58.48      FS6
ATOM  38918  CG1 VAL F   6     172.053 115.000 -86.709  1.00 58.48      FS6
ATOM  38919  CG2 VAL F   6     169.664 115.713 -86.503  1.00 58.48      FS6
ATOM  38920  C   VAL F   6     172.827 117.663 -85.717  1.00 76.89      FS6
ATOM  38921  O   VAL F   6     173.110 118.038 -86.849  1.00 76.89      FS6
ATOM  38922  N   ASN F   7     173.668 117.759 -84.695  1.00 38.34      FS6
ATOM  38923  CA  ASN F   7     175.003 118.297 -84.877  1.00 38.34      FS6
ATOM  38924  CB  ASN F   7     175.634 118.621 -83.532  1.00 79.95      FS6
ATOM  38925  CG  ASN F   7     174.822 119.605 -82.742  1.00 79.95      FS6
ATOM  38926  OD1 ASN F   7     174.671 120.756 -83.142  1.00 79.95      FS6
ATOM  38927  ND2 ASN F   7     174.285 119.160 -81.613  1.00 79.95      FS6
ATOM  38928  C   ASN F   7     175.817 117.211 -85.547  1.00 38.34      FS6
ATOM  38929  O   ASN F   7     175.759 116.055 -85.130  1.00 38.34      FS6
ATOM  38930  N   ILE F   8     176.554 117.568 -86.596  1.00 60.03      FS6
ATOM  38931  CA  ILE F   8     177.401 116.599 -87.280  1.00 60.03      FS6
ATOM  38932  CB  ILE F   8     176.753 116.065 -88.537  1.00 40.51      FS6
ATOM  38933  CG2 ILE F   8     177.778 115.298 -89.350  1.00 40.51      FS6
ATOM  38934  CG1 ILE F   8     175.588 115.157 -88.148  1.00 40.51      FS6
ATOM  38935  CD1 ILE F   8     174.989 114.372 -89.307  1.00 40.51      FS6
ATOM  38936  C   ILE F   8     178.759 117.177 -87.632  1.00 60.03      FS6
ATOM  38937  O   ILE F   8     178.867 118.326 -88.042  1.00 60.03      FS6
ATOM  38938  N   VAL F   9     179.800 116.371 -87.471  1.00 68.21      FS6
ATOM  38939  CA  VAL F   9     181.147 116.836 -87.747  1.00 68.21      FS6
ATOM  38940  CB  VAL F   9     181.842 117.218 -86.446  1.00 26.58      FS6
ATOM  38941  CG1 VAL F   9     182.928 118.225 -86.711  1.00 26.58      FS6
ATOM  38942  CG2 VAL F   9     180.832 117.772 -85.478  1.00 26.58      FS6
ATOM  38943  C   VAL F   9     181.978 115.776 -88.458  1.00 68.21      FS6
ATOM  38944  O   VAL F   9     182.205 114.684 -87.930  1.00 68.21      FS6
ATOM  38945  N   LEU F  10     182.440 116.110 -89.659  1.00 72.59      FS6
ATOM  38946  CA  LEU F  10     183.237 115.181 -90.446  1.00 72.59      FS6
ATOM  38947  CB  LEU F  10     182.491 114.815 -91.731  1.00 71.31      FS6
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ATOM  38948  CG  LEU F  10     181.396 115.795 -92.147  1.00 71.31       FS6
ATOM  38949  CD1 LEU F  10     181.978 117.188 -92.264  1.00 71.31       FS6
ATOM  38950  CD2 LEU F  10     180.785 115.348 -93.463  1.00 71.31       FS6
ATOM  38951  C   LEU F  10     184.622 115.708 -90.782  1.00 72.59       FS6
ATOM  38952  O   LEU F  10     184.972 116.845 -90.445  1.00 72.59       FS6
ATOM  38953  N   ASN F  11     185.401 114.863 -91.452  1.00 65.91       FS6
ATOM  38954  CA  ASN F  11     186.765 115.194 -91.842  1.00 65.91       FS6
ATOM  38955  CB  ASN F  11     187.365 114.057 -92.661  1.00128.90       FS6
ATOM  38956  CG  ASN F  11     188.853 114.202 -92.835  1.00128.90       FS6
ATOM  38957  OD1 ASN F  11     189.334 115.225 -93.320  1.00128.90       FS6
ATOM  38958  ND2 ASN F  11     189.598 113.180 -92.433  1.00128.90       FS6
ATOM  38959  C   ASN F  11     186.830 116.486 -92.643  1.00 65.91       FS6
ATOM  38960  O   ASN F  11     186.156 116.634 -93.661  1.00 65.91       FS6
ATOM  38961  N   PRO F  12     187.655 117.441 -92.192  1.00 66.19       FS6
ATOM  38962  CD  PRO F  12     188.457 117.360 -90.959  1.00 69.01       FS6
ATOM  38963  CA  PRO F  12     187.833 118.745 -92.840  1.00 66.19       FS6
ATOM  38964  CB  PRO F  12     188.495 119.569 -91.746  1.00 69.01       FS6
ATOM  38965  CG  PRO F  12     189.377 118.555 -91.093  1.00 69.01       FS6
ATOM  38966  C   PRO F  12     188.668 118.718 -94.127  1.00 66.19       FS6
ATOM  38967  O   PRO F  12     188.772 119.726 -94.834  1.00 66.19       FS6
ATOM  38968  N   ASN F  13     189.252 117.565 -94.431  1.00137.54       FS6
ATOM  38969  CA  ASN F  13     190.088 117.429 -95.616  1.00137.54       FS6
ATOM  38970  CB  ASN F  13     191.186 116.403 -95.347  1.00149.71       FS6
ATOM  38971  CG  ASN F  13     191.932 116.680 -94.059  1.00149.71       FS6
ATOM  38972  OD1 ASN F  13     192.421 117.789 -93.838  1.00149.71       FS6
ATOM  38973  ND2 ASN F  13     192.026 115.670 -93.199  1.00149.71       FS6
ATOM  38974  C   ASN F  13     189.318 117.047 -96.878  1.00137.54       FS6
ATOM  38975  O   ASN F  13     189.824 117.208 -97.989  1.00137.54       FS6
ATOM  38976  N   LEU F  14     188.101 116.542 -96.707  1.00 92.67       FS6
ATOM  38977  CA  LEU F  14     187.259 116.141 -97.833  1.00 92.67       FS6
ATOM  38978  CB  LEU F  14     185.808 115.989 -97.375  1.00 94.87       FS6
ATOM  38979  CG  LEU F  14     185.461 114.795 -96.492  1.00 94.87       FS6
ATOM  38980  CD1 LEU F  14     184.068 114.973 -95.925  1.00 94.87       FS6
ATOM  38981  CD2 LEU F  14     185.545 113.518 -97.302  1.00 94.87       FS6
ATOM  38982  C   LEU F  14     187.290 117.132 -98.991  1.00 92.67       FS6
ATOM  38983  O   LEU F  14     187.435 118.337 -98.783  1.00 92.67       FS6
ATOM  38984  N   ASP F  15     187.162 116.618-100.212  1.00 72.24       FS6
ATOM  38985  CA  ASP F  15     187.131 117.477-101.389  1.00 72.24       FS6
ATOM  38986  CB  ASP F  15     187.975 116.899-102.536  1.00162.79       FS6
ATOM  38987  CG  ASP F  15     187.452 115.573-103.050  1.00162.79       FS6
ATOM  38988  OD1 ASP F  15     186.277 115.514-103.467  1.00162.79       FS6
ATOM  38989  OD2 ASP F  15     188.224 114.591-103.048  1.00162.79       FS6
ATOM  38990  C   ASP F  15     185.662 117.566-101.778  1.00 72.24       FS6
ATOM  38991  O   ASP F  15     184.889 116.655-101.479  1.00 72.24       FS6
ATOM  38992  N   GLN F  16     185.281 118.662-102.427  1.00 97.68       FS6
ATOM  38993  CA  GLN F  16     183.893 118.885-102.815  1.00 97.68       FS6
ATOM  38994  CB  GLN F  16     183.812 119.979-103.882  1.00201.20       FS6
ATOM  38995  CG  GLN F  16     182.396 120.481-104.123  1.00201.20       FS6
ATOM  38996  CD  GLN F  16     181.710 120.920-102.839  1.00201.20       FS6
ATOM  38997  OE1 GLN F  16     182.185 121.818-102.142  1.00201.20       FS6
ATOM  38998  NE2 GLN F  16     180.587 120.285-102.521  1.00201.20       FS6
ATOM  38999  C   GLN F  16     183.158 117.635-103.298  1.00 97.68       FS6
ATOM  39000  O   GLN F  16     181.946 117.505-103.105  1.00 97.68       FS6
ATOM  39001  N   SER F  17     183.888 116.715-103.920  1.00 99.15       FS6
ATOM  39002  CA  SER F  17     183.286 115.484-104.418  1.00 99.15       FS6
ATOM  39003  CB  SER F  17     184.173 114.873-105.506  1.00172.65       FS6
ATOM  39004  OG  SER F  17     184.343 115.772-106.589  1.00172.65       FS6
ATOM  39005  C   SER F  17     183.075 114.475-103.288  1.00 99.15       FS6
ATOM  39006  O   SER F  17     181.982 113.931-103.128  1.00 99.15       FS6
ATOM  39007  N   GLN F  18     184.127 114.228-102.510  1.00 84.24       FS6
ATOM  39008  CA  GLN F  18     184.062 113.289-101.395  1.00 84.24       FS6
ATOM  39009  CB  GLN F  18     185.447 113.118-100.757  1.00139.32       FS6
ATOM  39010  CG  GLN F  18     186.524 112.577-101.695  1.00139.32       FS6
ATOM  39011  CD  GLN F  18     187.900 112.488-101.040  1.00139.32       FS6
ATOM  39012  OE1 GLN F  18     188.886 112.117-101.681  1.00139.32       FS6
ATOM  39013  NE2 GLN F  18     187.969 112.827 -99.759  1.00139.32       FS6
ATOM  39014  C   GLN F  18     183.090 113.823-100.354  1.00 84.24       FS6
ATOM  39015  O   GLN F  18     182.304 113.068 -99.781  1.00 84.24       FS6
ATOM  39016  N   LEU F  19     183.158 115.133-100.123  1.00 62.44       FS6
ATOM  39017  CA  LEU F  19     182.302 115.810 -99.154  1.00 62.44       FS6
ATOM  39018  CB  LEU F  19     182.656 117.299 -99.081  1.00 57.70       FS6
ATOM  39019  CG  LEU F  19     181.835 118.201 -98.145  1.00 57.70       FS6
ATOM  39020  CD1 LEU F  19     182.516 119.562 -98.048  1.00 57.70       FS6
ATOM  39021  CD2 LEU F  19     180.403 118.359 -98.653  1.00 57.70       FS6
ATOM  39022  C   LEU F  19     180.834 115.656 -99.509  1.00 62.44       FS6
ATOM  39023  O   LEU F  19     179.999 115.366 -98.650  1.00 62.44       FS6
ATOM  39024  N   ALA F  20     180.515 115.879-100.775  1.00 70.55       FS6
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ATOM  39025  CA  ALA F  20     179.139 115.755-101.222  1.00 70.55       FS6
ATOM  39026  CB  ALA F  20     179.027 116.151-102.686  1.00201.26       FS6
ATOM  39027  C   ALA F  20     178.693 114.313-101.030  1.00 70.55       FS6
ATOM  39028  O   ALA F  20     177.557 114.052-100.657  1.00 70.55       FS6
ATOM  39029  N   LEU F  21     179.603 113.384-101.291  1.00 70.58       FS6
ATOM  39030  CA  LEU F  21     179.322 111.966-101.140  1.00 70.58       FS6
ATOM  39031  CB  LEU F  21     180.621 111.165-101.260  1.00134.12       FS6
ATOM  39032  CG  LEU F  21     180.601 109.703-100.805  1.00134.12       FS6
ATOM  39033  CD1 LEU F  21     179.669 108.894-101.697  1.00134.12       FS6
ATOM  39034  CD2 LEU F  21     182.016 109.140-100.847  1.00134.12       FS6
ATOM  39035  C   LEU F  21     178.693 111.703 -99.779  1.00 70.58       FS6
ATOM  39036  O   LEU F  21     177.611 111.111 -99.688  1.00 70.58       FS6
ATOM  39037  N   GLU F  22     179.386 112.145 -98.727  1.00 81.40       FS6
ATOM  39038  CA  GLU F  22     178.927 111.962 -97.350  1.00 81.40       FS6
ATOM  39039  CB  GLU F  22     179.961 112.512 -96.360  1.00 71.79       FS6
ATOM  39040  CG  GLU F  22     181.347 111.879 -96.493  1.00 71.79       FS6
ATOM  39041  CD  GLU F  22     181.349 110.366 -96.274  1.00 71.79       FS6
ATOM  39042  OE1 GLU F  22     180.579 109.654 -96.948  1.00 71.79       FS6
ATOM  39043  OE2 GLU F  22     182.133 109.876 -95.432  1.00 71.79       FS6
ATOM  39044  C   GLU F  22     177.588 112.643 -97.144  1.00 81.40       FS6
ATOM  39045  O   GLU F  22     176.637 112.023 -96.673  1.00 81.40       FS6
ATOM  39046  N   LYS F  23     177.511 113.919 -97.500  1.00 55.07       FS6
ATOM  39047  CA  LYS F  23     176.258 114.642 -97.360  1.00 55.07       FS6
ATOM  39048  CB  LYS F  23     176.349 116.016 -98.013  1.00 98.78       FS6
ATOM  39049  CG  LYS F  23     177.321 116.954 -97.342  1.00 98.78       FS6
ATOM  39050  CD  LYS F  23     176.992 118.386 -97.702  1.00 98.78       FS6
ATOM  39051  CE  LYS F  23     175.588 118.751 -97.229  1.00 98.78       FS6
ATOM  39052  NZ  LYS F  23     175.196 120.139 -97.618  1.00 98.78       FS6
ATOM  39053  C   LYS F  23     175.150 113.838 -98.027  1.00 55.07       FS6
ATOM  39054  O   LYS F  23     174.095 113.609 -97.441  1.00 55.07       FS6
ATOM  39055  N   GLU F  24     175.396 113.414 -99.259  1.00120.05       FS6
ATOM  39056  CA  GLU F  24     174.416 112.626 -99.987  1.00120.05       FS6
ATOM  39057  CB  GLU F  24     175.078 111.923-101.177  1.00200.93       FS6
ATOM  39058  CG  GLU F  24     174.144 111.041-102.005  1.00200.93       FS6
ATOM  39059  CD  GLU F  24     173.081 111.831-102.750  1.00200.93       FS6
ATOM  39060  OE1 GLU F  24     173.447 112.725-103.542  1.00200.93       FS6
ATOM  39061  OE2 GLU F  24     171.880 111.553-102.548  1.00200.93       FS6
ATOM  39062  C   GLU F  24     173.840 111.595 -99.029  1.00120.05       FS6
ATOM  39063  O   GLU F  24     172.630 111.539 -98.820  1.00120.05       FS6
ATOM  39064  N   ILE F  25     174.717 110.801 -98.424  1.00 79.83       FS6
ATOM  39065  CA  ILE F  25     174.288 109.764 -97.488  1.00 79.83       FS6
ATOM  39066  CB  ILE F  25     175.499 108.967 -96.974  1.00110.63       FS6
ATOM  39067  CG2 ILE F  25     175.027 107.819 -96.093  1.00110.63       FS6
ATOM  39068  CG1 ILE F  25     176.301 108.435 -98.165  1.00110.63       FS6
ATOM  39069  CD1 ILE F  25     177.535 107.641 -97.786  1.00110.63       FS6
ATOM  39070  C   ILE F  25     173.500 110.316 -96.289  1.00 79.83       FS6
ATOM  39071  O   ILE F  25     172.435 109.798 -95.945  1.00 79.83       FS6
ATOM  39072  N   ILE F  26     174.032 111.359 -95.656  1.00 68.72       FS6
ATOM  39073  CA  ILE F  26     173.375 111.986 -94.514  1.00 68.72       FS6
ATOM  39074  CB  ILE F  26     174.095 113.274 -94.105  1.00 65.13       FS6
ATOM  39075  CG2 ILE F  26     173.264 114.031 -93.092  1.00 65.13       FS6
ATOM  39076  CG1 ILE F  26     175.472 112.941 -93.537  1.00 65.13       FS6
ATOM  39077  CD1 ILE F  26     176.256 114.165 -93.115  1.00 65.13       FS6
ATOM  39078  C   ILE F  26     171.924 112.333 -94.832  1.00 68.72       FS6
ATOM  39079  O   ILE F  26     171.010 111.945 -94.109  1.00 68.72       FS6
ATOM  39080  N   GLN F  27     171.718 113.084 -95.908  1.00 81.55       FS6
ATOM  39081  CA  GLN F  27     170.370 113.449 -96.310  1.00 81.55       FS6
ATOM  39082  CB  GLN F  27     170.390 114.152 -97.665  1.00163.50       FS6
ATOM  39083  CG  GLN F  27     170.991 115.537 -97.613  1.00163.50       FS6
ATOM  39084  CD  GLN F  27     170.251 116.442 -96.649  1.00163.50       FS6
ATOM  39085  OE1 GLN F  27     170.178 116.167 -95.451  1.00163.50       FS6
ATOM  39086  NE2 GLN F  27     169.693 117.530 -97.169  1.00163.50       FS6
ATOM  39087  C   GLN F  27     169.536 112.181 -96.393  1.00 81.55       FS6
ATOM  39088  O   GLN F  27     168.482 112.076 -95.761  1.00 81.55       FS6
ATOM  39089  N   ARG F  28     170.019 111.215 -97.168  1.00 72.55       FS6
ATOM  39090  CA  ARG F  28     169.319 109.949 -97.322  1.00 72.55       FS6
ATOM  39091  CB  ARG F  28     170.192 108.941 -98.076  1.00148.70       FS6
ATOM  39092  CG  ARG F  28     169.567 107.564 -98.205  1.00148.70       FS6
ATOM  39093  CD  ARG F  28     170.435 106.592 -98.996  1.00148.70       FS6
ATOM  39094  NE  ARG F  28     170.459 106.881-100.429  1.00148.70       FS6
ATOM  39095  CZ  ARG F  28     171.260 107.771-101.008  1.00148.70       FS6
ATOM  39096  NH1 ARG F  28     172.117 108.469-100.277  1.00148.70       FS6
ATOM  39097  NH2 ARG F  28     171.206 107.960-102.321  1.00148.70       FS6
ATOM  39098  C   ARG F  28     169.000 109.426 -95.931  1.00 72.55       FS6
ATOM  39099  O   ARG F  28     167.838 109.306 -95.554  1.00 72.55       FS6
ATOM  39100  N   ALA F  29     170.048 109.141 -95.166  1.00 77.01       FS6
ATOM  39101  CA  ALA F  29     169.909 108.633 -93.807  1.00 77.01       FS6
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ATOM  39102  CB  ALA F  29     171.195 108.876 -93.040  1.00 85.90       FS6
ATOM  39103  C   ALA F  29     168.735 109.267 -93.070  1.00 77.01       FS6
ATOM  39104  O   ALA F  29     167.835 108.566 -92.608  1.00 77.01       FS6
ATOM  39105  N   LEU F  30     168.753 110.593 -92.956  1.00 60.38       FS6
ATOM  39106  CA  LEU F  30     167.682 111.313 -92.283  1.00 60.38       FS6
ATOM  39107  CB  LEU F  30     167.827 112.814 -92.503  1.00 59.39       FS6
ATOM  39108  CG  LEU F  30     169.022 113.524 -91.879  1.00 59.39       FS6
ATOM  39109  CD1 LEU F  30     168.989 114.989 -92.260  1.00 59.39       FS6
ATOM  39110  CD2 LEU F  30     168.976 113.377 -90.371  1.00 59.39       FS6
ATOM  39111  C   LEU F  30     166.343 110.863 -92.839  1.00 60.38       FS6
ATOM  39112  O   LEU F  30     165.460 110.435 -92.094  1.00 60.38       FS6
ATOM  39113  N   GLU F  31     166.199 110.959 -94.159  1.00 93.60       FS6
ATOM  39114  CA  GLU F  31     164.962 110.571 -94.825  1.00 93.60       FS6
ATOM  39115  CB  GLU F  31     165.037 110.916 -96.314  1.00181.16       FS6
ATOM  39116  CG  GLU F  31     165.227 112.401 -96.590  1.00181.16       FS6
ATOM  39117  CD  GLU F  31     164.202 113.267 -95.875  1.00181.16       FS6
ATOM  39118  OE1 GLU F  31     162.992 112.977 -95.990  1.00181.16       FS6
ATOM  39119  OE2 GLU F  31     164.605 114.241 -95.203  1.00181.16       FS6
ATOM  39120  C   GLU F  31     164.640 109.089 -94.649  1.00 93.60       FS6
ATOM  39121  O   GLU F  31     163.480 108.686 -94.739  1.00 93.60       FS6
ATOM  39122  N   ASN F  32     165.668 108.284 -94.397  1.00 82.58       FS6
ATOM  39123  CA  ASN F  32     165.494 106.850 -94.196  1.00 82.58       FS6
ATOM  39124  CB  ASN F  32     166.854 106.148 -94.181  1.00186.48       FS6
ATOM  39125  CG  ASN F  32     167.648 106.382 -95.447  1.00186.48       FS6
ATOM  39126  OD1 ASN F  32     168.831 106.049 -95.520  1.00186.48       FS6
ATOM  39127  ND2 ASN F  32     167.001 106.953 -96.456  1.00186.48       FS6
ATOM  39128  C   ASN F  32     164.812 106.625 -92.853  1.00 82.58       FS6
ATOM  39129  O   ASN F  32     164.211 105.575 -92.617  1.00 82.58       FS6
ATOM  39130  N   TYR F  33     164.912 107.625 -91.979  1.00 89.80       FS6
ATOM  39131  CA  TYR F  33     164.333 107.548 -90.644  1.00 89.80       FS6
ATOM  39132  CB  TYR F  33     165.447 107.618 -89.597  1.00 65.96       FS6
ATOM  39133  CG  TYR F  33     166.277 106.369 -89.557  1.00 65.96       FS6
ATOM  39134  CD1 TYR F  33     167.638 106.396 -89.843  1.00 65.96       FS6
ATOM  39135  CE1 TYR F  33     168.395 105.222 -89.830  1.00 65.96       FS6
ATOM  39136  CD2 TYR F  33     165.687 105.146 -89.257  1.00 65.96       FS6
ATOM  39137  CE2 TYR F  33     166.426 103.970 -89.241  1.00 65.96       FS6
ATOM  39138  CZ  TYR F  33     167.777 104.008 -89.525  1.00 65.96       FS6
ATOM  39139  OH  TYR F  33     168.490 102.827 -89.482  1.00 65.96       FS6
ATOM  39140  C   TYR F  33     163.281 108.602 -90.334  1.00 89.80       FS6
ATOM  39141  O   TYR F  33     163.129 109.008 -89.186  1.00 89.80       FS6
ATOM  39142  N   GLY F  34     162.549 109.033 -91.353  1.00 80.61       FS6
ATOM  39143  CA  GLY F  34     161.516 110.028 -91.138  1.00 80.61       FS6
ATOM  39144  C   GLY F  34     162.044 111.327 -90.558  1.00 80.61       FS6
ATOM  39145  O   GLY F  34     161.353 112.009 -89.799  1.00 80.61       FS6
ATOM  39146  N   ALA F  35     163.271 111.680 -90.915  1.00 79.11       FS6
ATOM  39147  CA  ALA F  35     163.861 112.911 -90.414  1.00 79.11       FS6
ATOM  39148  CB  ALA F  35     165.371 112.762 -90.311  1.00150.31       FS6
ATOM  39149  C   ALA F  35     163.508 114.098 -91.300  1.00 79.11       FS6
ATOM  39150  O   ALA F  35     164.326 114.575 -92.081  1.00 79.11       FS6
ATOM  39151  N   ARG F  36     162.276 114.566 -91.180  1.00 40.81       FS6
ATOM  39152  CA  ARG F  36     161.825 115.711 -91.956  1.00 40.81       FS6
ATOM  39153  CB  ARG F  36     160.344 115.962 -91.657  1.00149.07       FS6
ATOM  39154  CG  ARG F  36     159.748 117.166 -92.345  1.00149.07       FS6
ATOM  39155  CD  ARG F  36     158.349 117.445 -91.824  1.00149.07       FS6
ATOM  39156  NE  ARG F  36     157.948 118.815 -92.117  1.00149.07       FS6
ATOM  39157  CZ  ARG F  36     158.610 119.888 -91.695  1.00149.07       FS6
ATOM  39158  NH1 ARG F  36     159.705 119.750 -90.959  1.00149.07       FS6
ATOM  39159  NH2 ARG F  36     158.184 121.102 -92.015  1.00149.07       FS6
ATOM  39160  C   ARG F  36     162.678 116.955 -91.605  1.00 40.81       FS6
ATOM  39161  O   ARG F  36     162.557 117.517 -90.507  1.00 40.81       FS6
ATOM  39162  N   VAL F  37     163.515 117.390 -92.553  1.00 52.41       FS6
ATOM  39163  CA  VAL F  37     164.426 118.527 -92.351  1.00 52.41       FS6
ATOM  39164  CB  VAL F  37     165.528 118.525 -93.413  1.00 61.64       FS6
ATOM  39165  CG1 VAL F  37     166.612 119.521 -93.019  1.00 61.64       FS6
ATOM  39166  CG2 VAL F  37     166.091 117.120 -93.579  1.00 61.64       FS6
ATOM  39167  C   VAL F  37     163.858 119.950 -92.308  1.00 52.41       FS6
ATOM  39168  O   VAL F  37     163.666 120.577 -93.345  1.00 52.41       FS6
ATOM  39169  N   GLU F  38     163.640 120.477 -91.105  1.00 75.36       FS6
ATOM  39170  CA  GLU F  38     163.099 121.825 -90.961  1.00 75.36       FS6
ATOM  39171  CB  GLU F  38     162.719 122.119 -89.508  1.00 95.38       FS6
ATOM  39172  CG  GLU F  38     161.683 121.183 -88.919  1.00 95.38       FS6
ATOM  39173  CD  GLU F  38     161.058 121.743 -87.658  1.00 95.38       FS6
ATOM  39174  OE1 GLU F  38     160.404 120.969 -86.928  1.00 95.38       FS6
ATOM  39175  OE2 GLU F  38     161.212 122.959 -87.403  1.00 95.38       FS6
ATOM  39176  C   GLU F  38     164.049 122.910 -91.445  1.00 75.36       FS6
ATOM  39177  O   GLU F  38     163.604 123.926 -91.973  1.00 75.36       FS6
ATOM  39178  N   LYS F  39     165.349 122.720 -91.246  1.00 99.69       FS6
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ATOM  39179  CA  LYS F  39     166.317 123.712 -91.704  1.00 99.69       FS6
ATOM  39180  CB  LYS F  39     166.071 125.073 -91.039  1.00123.20       FS6
ATOM  39181  CG  LYS F  39     166.371 125.139 -89.557  1.00123.20       FS6
ATOM  39182  CD  LYS F  39     166.141 126.550 -89.034  1.00123.20       FS6
ATOM  39183  CE  LYS F  39     164.698 126.999 -89.257  1.00123.20       FS6
ATOM  39184  NZ  LYS F  39     164.433 128.377 -88.750  1.00123.20       FS6
ATOM  39185  C   LYS F  39     167.764 123.303 -91.493  1.00 99.69       FS6
ATOM  39186  O   LYS F  39     168.062 122.418 -90.686  1.00 99.69       FS6
ATOM  39187  N   VAL F  40     168.654 123.967 -92.228  1.00 63.32       FS6
ATOM  39188  CA  VAL F  40     170.085 123.695 -92.171  1.00 63.32       FS6
ATOM  39189  CB  VAL F  40     170.576 123.105 -93.508  1.00 54.75       FS6
ATOM  39190  CG1 VAL F  40     172.087 123.104 -93.552  1.00 54.75       FS6
ATOM  39191  CG2 VAL F  40     170.060 121.685 -93.676  1.00 54.75       FS6
ATOM  39192  C   VAL F  40     170.933 124.926 -91.858  1.00 63.32       FS6
ATOM  39193  O   VAL F  40     170.517 126.062 -92.067  1.00 63.32       FS6
ATOM  39194  N   GLU F  41     172.128 124.683 -91.339  1.00 85.32       FS6
ATOM  39195  CA  GLU F  41     173.073 125.741 -91.024  1.00 85.32       FS6
ATOM  39196  CB  GLU F  41     172.851 126.279 -89.608  1.00166.19       FS6
ATOM  39197  CG  GLU F  41     171.567 127.077 -89.444  1.00166.19       FS6
ATOM  39198  CD  GLU F  41     171.486 127.789 -88.108  1.00166.19       FS6
ATOM  39199  OE1 GLU F  41     172.348 128.652 -87.840  1.00166.19       FS6
ATOM  39200  OE2 GLU F  41     170.562 127.488 -87.325  1.00166.19       FS6
ATOM  39201  C   GLU F  41     174.449 125.113 -91.149  1.00 85.32       FS6
ATOM  39202  O   GLU F  41     175.009 124.609 -90.177  1.00 85.32       FS6
ATOM  39203  N   GLU F  42     174.975 125.127 -92.367  1.00 98.83       FS6
ATOM  39204  CA  GLU F  42     176.280 124.551 -92.662  1.00 98.83       FS6
ATOM  39205  CB  GLU F  42     176.305 124.111 -94.124  1.00115.69       FS6
ATOM  39206  CG  GLU F  42     177.497 123.284 -94.536  1.00115.69       FS6
ATOM  39207  CD  GLU F  42     177.329 122.732 -95.938  1.00115.69       FS6
ATOM  39208  OE1 GLU F  42     178.256 122.059 -96.436  1.00115.69       FS6
ATOM  39209  OE2 GLU F  42     176.262 122.969 -96.545  1.00115.69       FS6
ATOM  39210  C   GLU F  42     177.374 125.579 -92.390  1.00 98.83       FS6
ATOM  39211  O   GLU F  42     177.679 126.412 -93.239  1.00 98.83       FS6
ATOM  39212  N   LEU F  43     177.953 125.513 -91.195  1.00 91.89       FS6
ATOM  39213  CA  LEU F  43     179.002 126.439 -90.785  1.00 91.89       FS6
ATOM  39214  CB  LEU F  43     179.283 126.290 -89.288  1.00 82.41       FS6
ATOM  39215  CG  LEU F  43     178.552 127.237 -88.333  1.00 82.41       FS6
ATOM  39216  CD1 LEU F  43     179.063 128.650 -88.542  1.00 82.41       FS6
ATOM  39217  CD2 LEU F  43     177.052 127.168 -88.561  1.00 82.41       FS6
ATOM  39218  C   LEU F  43     180.298 126.265 -91.557  1.00 91.89       FS6
ATOM  39219  O   LEU F  43     180.921 127.243 -91.969  1.00 91.89       FS6
ATOM  39220  N   GLY F  44     180.715 125.021 -91.745  1.00 99.84       FS6
ATOM  39221  CA  GLY F  44     181.944 124.790 -92.473  1.00 99.84       FS6
ATOM  39222  C   GLY F  44     183.077 124.300 -91.596  1.00 99.84       FS6
ATOM  39223  O   GLY F  44     182.858 123.546 -90.646  1.00 99.84       FS6
ATOM  39224  N   LEU F  45     184.294 124.722 -91.922  1.00120.65       FS6
ATOM  39225  CA  LEU F  45     185.472 124.324 -91.164  1.00120.65       FS6
ATOM  39226  CB  LEU F  45     186.718 124.393 -92.043  1.00 95.91       FS6
ATOM  39227  CG  LEU F  45     186.786 123.450 -93.242  1.00 95.91       FS6
ATOM  39228  CD1 LEU F  45     188.159 123.573 -93.892  1.00 95.91       FS6
ATOM  39229  CD2 LEU F  45     186.542 122.018 -92.797  1.00 95.91       FS6
ATOM  39230  C   LEU F  45     185.681 125.220 -89.959  1.00120.65       FS6
ATOM  39231  O   LEU F  45     185.492 126.433 -90.049  1.00120.65       FS6
ATOM  39232  N   ARG F  46     186.079 124.628 -88.834  1.00 88.22       FS6
ATOM  39233  CA  ARG F  46     186.324 125.409 -87.627  1.00 88.22       FS6
ATOM  39234  CB  ARG F  46     185.034 125.542 -86.815  1.00133.05       FS6
ATOM  39235  CG  ARG F  46     183.923 126.285 -87.545  1.00133.05       FS6
ATOM  39236  CD  ARG F  46     182.912 126.812 -86.563  1.00133.05       FS6
ATOM  39237  NE  ARG F  46     183.569 127.661 -85.578  1.00133.05       FS6
ATOM  39238  CZ  ARG F  46     182.976 128.154 -84.497  1.00133.05       FS6
ATOM  39239  NH1 ARG F  46     181.699 127.884 -84.252  1.00133.05       FS6
ATOM  39240  NH2 ARG F  46     183.663 128.914 -83.657  1.00133.05       FS6
ATOM  39241  C   ARG F  46     187.451 124.870 -86.741  1.00 88.22       FS6
ATOM  39242  O   ARG F  46     187.716 123.661 -86.707  1.00 88.22       FS6
ATOM  39243  N   ARG F  47     188.109 125.795 -86.039  1.00 89.13       FS6
ATOM  39244  CA  ARG F  47     189.216 125.483 -85.138  1.00 89.13       FS6
ATOM  39245  CB  ARG F  47     189.913 126.773 -84.692  1.00201.26       FS6
ATOM  39246  CG  ARG F  47     190.513 127.608 -85.813  1.00201.26       FS6
ATOM  39247  CD  ARG F  47     191.812 127.011 -86.343  1.00201.26       FS6
ATOM  39248  NE  ARG F  47     192.434 127.868 -87.352  1.00201.26       FS6
ATOM  39249  CZ  ARG F  47     193.607 127.624 -87.932  1.00201.26       FS6
ATOM  39250  NH1 ARG F  47     194.301 126.540 -87.609  1.00201.26       FS6
ATOM  39251  NH2 ARG F  47     194.086 128.464 -88.840  1.00201.26       FS6
ATOM  39252  C   ARG F  47     188.696 124.758 -83.904  1.00 89.13       FS6
ATOM  39253  O   ARG F  47     188.067 125.372 -83.045  1.00 89.13       FS6
ATOM  39254  N   LEU F  48     188.966 123.459 -83.810  1.00 58.57       FS6
ATOM  39255  CA  LEU F  48     188.505 122.677 -82.672  1.00 58.57       FS6
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ATOM  39256  CB  LEU F  48     188.556 121.200 -83.018  1.00 23.45      FS6
ATOM  39257  CG  LEU F  48     187.506 120.788 -84.053  1.00 23.45      FS6
ATOM  39258  CD1 LEU F  48     187.472 119.265 -84.179  1.00 23.45      FS6
ATOM  39259  CD2 LEU F  48     186.129 121.302 -83.631  1.00 23.45      FS6
ATOM  39260  C   LEU F  48     189.269 122.933 -81.376  1.00 58.57      FS6
ATOM  39261  O   LEU F  48     190.486 123.126 -81.388  1.00 58.57      FS6
ATOM  39262  N   ALA F  49     188.548 122.928 -80.256  1.00 45.97      FS6
ATOM  39263  CA  ALA F  49     189.148 123.175 -78.943  1.00 45.97      FS6
ATOM  39264  CB  ALA F  49     188.076 123.121 -77.867  1.00132.11      FS6
ATOM  39265  C   ALA F  49     190.261 122.177 -78.632  1.00 45.97      FS6
ATOM  39266  O   ALA F  49     191.231 122.491 -77.936  1.00 45.97      FS6
ATOM  39267  N   TYR F  50     190.103 120.970 -79.153  1.00 47.01      FS6
ATOM  39268  CA  TYR F  50     191.078 119.907 -78.980  1.00 47.01      FS6
ATOM  39269  CB  TYR F  50     190.697 119.015 -77.798  1.00 41.01      FS6
ATOM  39270  CG  TYR F  50     189.279 118.496 -77.858  1.00 41.01      FS6
ATOM  39271  CD1 TYR F  50     188.202 119.319 -77.559  1.00 41.01      FS6
ATOM  39272  CE1 TYR F  50     186.895 118.858 -77.656  1.00 41.01      FS6
ATOM  39273  CD2 TYR F  50     189.012 117.190 -78.253  1.00 41.01      FS6
ATOM  39274  CE2 TYR F  50     187.709 116.718 -78.351  1.00 41.01      FS6
ATOM  39275  CZ  TYR F  50     186.654 117.558 -78.054  1.00 41.01      FS6
ATOM  39276  OH  TYR F  50     185.358 117.101 -78.184  1.00 41.01      FS6
ATOM  39277  C   TYR F  50     191.026 119.116 -80.280  1.00 47.01      FS6
ATOM  39278  O   TYR F  50     190.002 119.110 -80.959  1.00 47.01      FS6
ATOM  39279  N   PRO F  51     192.123 118.446 -80.655  1.00 38.56      FS6
ATOM  39280  CD  PRO F  51     193.360 118.152 -79.915  1.00 70.50      FS6
ATOM  39281  CA  PRO F  51     192.082 117.686 -81.903  1.00 38.56      FS6
ATOM  39282  CB  PRO F  51     193.502 117.161 -82.024  1.00 70.50      FS6
ATOM  39283  CG  PRO F  51     193.847 116.888 -80.606  1.00 70.50      FS6
ATOM  39284  C   PRO F  51     191.061 116.562 -81.832  1.00 38.56      FS6
ATOM  39285  O   PRO F  51     190.689 116.110 -80.749  1.00 38.56      FS6
ATOM  39286  N   ILE F  52     190.601 116.123 -82.993  1.00 52.72      FS6
ATOM  39287  CA  ILE F  52     189.643 115.036 -83.054  1.00 52.72      FS6
ATOM  39288  CB  ILE F  52     188.212 115.548 -83.289  1.00 39.66      FS6
ATOM  39289  CG2 ILE F  52     187.260 114.370 -83.434  1.00 39.66      FS6
ATOM  39290  CG1 ILE F  52     187.792 116.445 -82.123  1.00 39.66      FS6
ATOM  39291  CD1 ILE F  52     186.310 116.824 -82.116  1.00 39.66      FS6
ATOM  39292  C   ILE F  52     190.049 114.129 -84.194  1.00 52.72      FS6
ATOM  39293  O   ILE F  52     190.309 114.592 -85.302  1.00 52.72      FS6
ATOM  39294  N   ALA F  53     190.115 112.833 -83.924  1.00 86.66      FS6
ATOM  39295  CA  ALA F  53     190.514 111.895 -84.955  1.00 86.66      FS6
ATOM  39296  CB  ALA F  53     189.457 111.850 -86.051  1.00 93.30      FS6
ATOM  39297  C   ALA F  53     191.859 112.365 -85.517  1.00 86.66      FS6
ATOM  39298  O   ALA F  53     192.191 112.114 -86.674  1.00 86.66      FS6
ATOM  39299  N   LYS F  54     192.615 113.062 -84.675  1.00 67.85      FS6
ATOM  39300  CA  LYS F  54     193.937 113.586 -85.012  1.00 67.85      FS6
ATOM  39301  CB  LYS F  54     194.730 112.570 -85.840  1.00125.53      FS6
ATOM  39302  CG  LYS F  54     194.952 111.240 -85.140  1.00125.53      FS6
ATOM  39303  CD  LYS F  54     195.680 111.412 -83.817  1.00125.53      FS6
ATOM  39304  CE  LYS F  54     195.834 110.074 -83.109  1.00125.53      FS6
ATOM  39305  NZ  LYS F  54     194.521 109.412 -82.849  1.00125.53      FS6
ATOM  39306  C   LYS F  54     193.933 114.930 -85.726  1.00 67.85      FS6
ATOM  39307  O   LYS F  54     194.917 115.671 -85.640  1.00 67.85      FS6
ATOM  39308  N   ASP F  55     192.839 115.250 -86.417  1.00 48.12      FS6
ATOM  39309  CA  ASP F  55     192.739 116.523 -87.140  1.00 48.12      FS6
ATOM  39310  CB  ASP F  55     191.651 116.429 -88.218  1.00123.72      FS6
ATOM  39311  CG  ASP F  55     191.772 117.522 -89.273  1.00123.72      FS6
ATOM  39312  OD1 ASP F  55     191.656 118.716 -88.924  1.00123.72      FS6
ATOM  39313  OD2 ASP F  55     191.985 117.184 -90.457  1.00123.72      FS6
ATOM  39314  C   ASP F  55     192.450 117.713 -86.198  1.00 48.12      FS6
ATOM  39315  O   ASP F  55     191.514 117.671 -85.394  1.00 48.12      FS6
ATOM  39316  N   PRO F  56     193.260 118.787 -86.287  1.00 49.47      FS6
ATOM  39317  CD  PRO F  56     194.481 118.889 -87.107  1.00174.76      FS6
ATOM  39318  CA  PRO F  56     193.103 119.982 -85.453  1.00 49.47      FS6
ATOM  39319  CB  PRO F  56     194.467 120.651 -85.561  1.00174.76      FS6
ATOM  39320  CG  PRO F  56     194.846 120.357 -86.969  1.00174.76      FS6
ATOM  39321  C   PRO F  56     191.969 120.904 -85.904  1.00 49.47      FS6
ATOM  39322  O   PRO F  56     191.816 122.024 -85.396  1.00 49.47      FS6
ATOM  39323  N   GLN F  57     191.175 120.425 -86.857  1.00 46.96      FS6
ATOM  39324  CA  GLN F  57     190.055 121.194 -87.382  1.00 46.96      FS6
ATOM  39325  CB  GLN F  57     190.431 121.793 -88.733  1.00144.52      FS6
ATOM  39326  CG  GLN F  57     191.621 122.728 -88.670  1.00144.52      FS6
ATOM  39327  CD  GLN F  57     192.181 123.042 -90.038  1.00144.52      FS6
ATOM  39328  OE1 GLN F  57     193.107 123.841 -90.173  1.00144.52      FS6
ATOM  39329  NE2 GLN F  57     191.626 122.408 -91.064  1.00144.52      FS6
ATOM  39330  C   GLN F  57     188.831 120.307 -87.535  1.00 46.96      FS6
ATOM  39331  O   GLN F  57     188.903 119.083 -87.370  1.00 46.96      FS6
ATOM  39332  N   GLY F  58     187.700 120.924 -87.847  1.00 51.13      FS6
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ATOM  39333  CA  GLY F  58     186.491 120.146 -88.014  1.00 51.13      FS6
ATOM  39334  C   GLY F  58     185.488 120.838 -88.901  1.00 51.13      FS6
ATOM  39335  O   GLY F  58     185.305 122.057 -88.799  1.00 51.13      FS6
ATOM  39336  N   TYR F  59     184.852 120.060 -89.777  1.00 63.67      FS6
ATOM  39337  CA  TYR F  59     183.839 120.581 -90.688  1.00 63.67      FS6
ATOM  39338  CB  TYR F  59     183.984 119.965 -92.078  1.00 78.55      FS6
ATOM  39339  CG  TYR F  59     183.107 120.638 -93.103  1.00 78.55      FS6
ATOM  39340  CD1 TYR F  59     183.321 121.964 -93.455  1.00 78.55      FS6
ATOM  39341  CE1 TYR F  59     182.492 122.610 -94.351  1.00 78.55      FS6
ATOM  39342  CD2 TYR F  59     182.033 119.969 -93.683  1.00 78.55      FS6
ATOM  39343  CE2 TYR F  59     181.194 120.608 -94.582  1.00 78.55      FS6
ATOM  39344  CZ  TYR F  59     181.431 121.933 -94.909  1.00 78.55      FS6
ATOM  39345  OH  TYR F  59     180.602 122.591 -95.787  1.00 78.55      FS6
ATOM  39346  C   TYR F  59     182.466 120.236 -90.126  1.00 63.67      FS6
ATOM  39347  O   TYR F  59     182.057 119.072 -90.140  1.00 63.67      FS6
ATOM  39348  N   PHE F  60     181.754 121.255 -89.653  1.00 98.91      FS6
ATOM  39349  CA  PHE F  60     180.447 121.062 -89.043  1.00 98.91      FS6
ATOM  39350  CB  PHE F  60     180.291 122.016 -87.869  1.00 91.29      FS6
ATOM  39351  CG  PHE F  60     181.283 121.796 -86.780  1.00 91.29      FS6
ATOM  39352  CD1 PHE F  60     182.468 122.517 -86.746  1.00 91.29      FS6
ATOM  39353  CD2 PHE F  60     181.031 120.869 -85.779  1.00 91.29      FS6
ATOM  39354  CE1 PHE F  60     183.388 122.317 -85.725  1.00 91.29      FS6
ATOM  39355  CE2 PHE F  60     181.939 120.660 -84.756  1.00 91.29      FS6
ATOM  39356  CZ  PHE F  60     183.119 121.384 -84.726  1.00 91.29      FS6
ATOM  39357  C   PHE F  60     179.196 121.171 -89.908  1.00 98.91      FS6
ATOM  39358  O   PHE F  60     179.224 121.661 -91.034  1.00 98.91      FS6
ATOM  39359  N   LEU F  61     178.090 120.714 -89.327  1.00135.49      FS6
ATOM  39360  CA  LEU F  61     176.779 120.721 -89.958  1.00135.49      FS6
ATOM  39361  CB  LEU F  61     176.546 119.390 -90.668  1.00 72.76      FS6
ATOM  39362  CG  LEU F  61     177.643 119.066 -91.690  1.00 72.76      FS6
ATOM  39363  CD1 LEU F  61     177.447 117.671 -92.258  1.00 72.76      FS6
ATOM  39364  CD2 LEU F  61     177.618 120.100 -92.793  1.00 72.76      FS6
ATOM  39365  C   LEU F  61     175.743 120.938 -88.856  1.00135.49      FS6
ATOM  39366  O   LEU F  61     176.088 120.934 -87.673  1.00135.49      FS6
ATOM  39367  N   TRP F  62     174.480 121.120 -89.235  1.00 75.84      FS6
ATOM  39368  CA  TRP F  62     173.421 121.373 -88.256  1.00 75.84      FS6
ATOM  39369  CB  TRP F  62     173.614 122.768 -87.663  1.00106.03      FS6
ATOM  39370  CG  TRP F  62     172.660 123.128 -86.579  1.00106.03      FS6
ATOM  39371  CD2 TRP F  62     171.361 123.705 -86.738  1.00106.03      FS6
ATOM  39372  CE2 TRP F  62     170.838 123.915 -85.446  1.00106.03      FS6
ATOM  39373  CE3 TRP F  62     170.587 124.067 -87.847  1.00106.03      FS6
ATOM  39374  CD1 TRP F  62     172.865 123.008 -85.237  1.00106.03      FS6
ATOM  39375  NE1 TRP F  62     171.777 123.481 -84.548  1.00106.03      FS6
ATOM  39376  CZ2 TRP F  62     169.574 124.473 -85.232  1.00106.03      FS6
ATOM  39377  CZ3 TRP F  62     169.332 124.620 -87.634  1.00106.03      FS6
ATOM  39378  CH2 TRP F  62     168.839 124.817 -86.335  1.00106.03      FS6
ATOM  39379  C   TRP F  62     172.044 121.296 -88.905  1.00 75.84      FS6
ATOM  39380  O   TRP F  62     171.674 122.167 -89.680  1.00 75.84      FS6
ATOM  39381  N   TYR F  63     171.286 120.254 -88.597  1.00 85.82      FS6
ATOM  39382  CA  TYR F  63     169.961 120.115 -89.179  1.00 85.82      FS6
ATOM  39383  CB  TYR F  63     169.844 118.814 -89.976  1.00103.32      FS6
ATOM  39384  CG  TYR F  63     170.945 118.537 -90.971  1.00103.32      FS6
ATOM  39385  CD1 TYR F  63     171.033 117.298 -91.591  1.00103.32      FS6
ATOM  39386  CE1 TYR F  63     172.053 117.007 -92.477  1.00103.32      FS6
ATOM  39387  CD2 TYR F  63     171.911 119.491 -91.272  1.00103.32      FS6
ATOM  39388  CE2 TYR F  63     172.942 119.212 -92.159  1.00103.32      FS6
ATOM  39389  CZ  TYR F  63     173.009 117.966 -92.758  1.00103.32      FS6
ATOM  39390  OH  TYR F  63     174.039 117.669 -93.624  1.00103.32      FS6
ATOM  39391  C   TYR F  63     168.932 120.081 -88.065  1.00 85.82      FS6
ATOM  39392  O   TYR F  63     169.072 119.311 -87.113  1.00 85.82      FS6
ATOM  39393  N   GLN F  64     167.896 120.905 -88.183  1.00 64.52      FS6
ATOM  39394  CA  GLN F  64     166.838 120.932 -87.180  1.00 64.52      FS6
ATOM  39395  CB  GLN F  64     166.392 122.364 -86.921  1.00 62.59      FS6
ATOM  39396  CG  GLN F  64     165.169 122.441 -86.044  1.00 62.59      FS6
ATOM  39397  CD  GLN F  64     164.663 123.841 -85.901  1.00 62.59      FS6
ATOM  39398  OE1 GLN F  64     165.176 124.620 -85.099  1.00 62.59      FS6
ATOM  39399  NE2 GLN F  64     163.653 124.185 -86.691  1.00 62.59      FS6
ATOM  39400  C   GLN F  64     165.641 120.115 -87.649  1.00 64.52      FS6
ATOM  39401  O   GLN F  64     164.577 120.659 -87.909  1.00 64.52      FS6
ATOM  39402  N   VAL F  65     165.806 118.806 -87.738  1.00 68.88      FS6
ATOM  39403  CA  VAL F  65     164.731 117.952 -88.212  1.00 68.88      FS6
ATOM  39404  CB  VAL F  65     165.264 116.577 -88.572  1.00 68.41      FS6
ATOM  39405  CG1 VAL F  65     166.643 116.719 -89.168  1.00 68.41      FS6
ATOM  39406  CG2 VAL F  65     165.292 115.685 -87.334  1.00 68.41      FS6
ATOM  39407  C   VAL F  65     163.597 117.737 -87.225  1.00 68.88      FS6
ATOM  39408  O   VAL F  65     163.638 118.210 -86.089  1.00 68.88      FS6
ATOM  39409  N   GLU F  66     162.586 117.008 -87.694  1.00 57.72      FS6
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ATOM  39410  CA  GLU F  66     161.418 116.622 -86.913  1.00 57.72       FS6
ATOM  39411  CB  GLU F  66     160.182 117.411 -87.338  1.00118.56       FS6
ATOM  39412  CG  GLU F  66     158.938 117.005 -86.570  1.00118.56       FS6
ATOM  39413  CD  GLU F  66     157.709 117.799 -86.960  1.00118.56       FS6
ATOM  39414  OE1 GLU F  66     157.736 119.043 -86.834  1.00118.56       FS6
ATOM  39415  OE2 GLU F  66     156.713 117.176 -87.389  1.00118.56       FS6
ATOM  39416  C   GLU F  66     161.253 115.154 -87.287  1.00 57.72       FS6
ATOM  39417  O   GLU F  66     161.222 114.819 -88.467  1.00 57.72       FS6
ATOM  39418  N   MET F  67     161.175 114.272 -86.297  1.00 43.96       FS6
ATOM  39419  CA  MET F  67     161.050 112.845 -86.590  1.00 43.96       FS6
ATOM  39420  CB  MET F  67     162.427 112.268 -86.940  1.00 85.60       FS6
ATOM  39421  CG  MET F  67     163.459 112.384 -85.827  1.00 85.60       FS6
ATOM  39422  SD  MET F  67     165.090 111.744 -86.285  1.00 85.60       FS6
ATOM  39423  CE  MET F  67     164.981 110.071 -85.691  1.00 85.60       FS6
ATOM  39424  C   MET F  67     160.447 112.071 -85.428  1.00 43.96       FS6
ATOM  39425  O   MET F  67     160.173 112.641 -84.373  1.00 43.96       FS6
ATOM  39426  N   PRO F  68     160.213 110.762 -85.618  1.00 78.45       FS6
ATOM  39427  CD  PRO F  68     160.174 110.112 -86.937  1.00 99.05       FS6
ATOM  39428  CA  PRO F  68     159.639 109.871 -84.605  1.00 78.45       FS6
ATOM  39429  CB  PRO F  68     159.324 108.605 -85.398  1.00 99.05       FS6
ATOM  39430  CG  PRO F  68     159.056 109.122 -86.761  1.00 99.05       FS6
ATOM  39431  C   PRO F  68     160.597 109.587 -83.452  1.00 78.45       FS6
ATOM  39432  O   PRO F  68     161.654 108.981 -83.650  1.00 78.45       FS6
ATOM  39433  N   GLU F  69     160.218 110.013 -82.250  1.00 56.58       FS6
ATOM  39434  CA  GLU F  69     161.048 109.804 -81.073  1.00 56.58       FS6
ATOM  39435  CB  GLU F  69     160.262 110.105 -79.798  1.00111.57       FS6
ATOM  39436  CG  GLU F  69     159.264 111.231 -79.929  1.00111.57       FS6
ATOM  39437  CD  GLU F  69     157.924 110.760 -80.444  1.00111.57       FS6
ATOM  39438  OE1 GLU F  69     157.862 110.239 -81.577  1.00111.57       FS6
ATOM  39439  OE2 GLU F  69     156.925 110.907 -79.710  1.00111.57       FS6
ATOM  39440  C   GLU F  69     161.517 108.360 -81.038  1.00 56.58       FS6
ATOM  39441  O   GLU F  69     162.690 108.085 -80.806  1.00 56.58       FS6
ATOM  39442  N   ASP F  70     160.592 107.441 -81.287  1.00 53.47       FS6
ATOM  39443  CA  ASP F  70     160.898 106.018 -81.268  1.00 53.47       FS6
ATOM  39444  CB  ASP F  70     159.658 105.215 -81.672  1.00186.18       FS6
ATOM  39445  CG  ASP F  70     159.106 105.633 -83.021  1.00186.18       FS6
ATOM  39446  OD1 ASP F  70     158.694 106.804 -83.157  1.00186.18       FS6
ATOM  39447  OD2 ASP F  70     159.082 104.790 -83.944  1.00186.18       FS6
ATOM  39448  C   ASP F  70     162.081 105.592 -82.139  1.00 53.47       FS6
ATOM  39449  O   ASP F  70     162.480 104.422 -82.109  1.00 53.47       FS6
ATOM  39450  N   ARG F  71     162.649 106.523 -82.905  1.00 71.85       FS6
ATOM  39451  CA  ARG F  71     163.772 106.184 -83.776  1.00 71.85       FS6
ATOM  39452  CB  ARG F  71     163.278 105.967 -85.208  1.00132.88       FS6
ATOM  39453  CG  ARG F  71     162.340 104.791 -85.380  1.00132.88       FS6
ATOM  39454  CD  ARG F  71     162.325 104.347 -86.827  1.00132.88       FS6
ATOM  39455  NE  ARG F  71     161.998 105.448 -87.726  1.00132.88       FS6
ATOM  39456  CZ  ARG F  71     162.099 105.385 -89.050  1.00132.88       FS6
ATOM  39457  NH1 ARG F  71     162.525 104.273 -89.634  1.00132.88       FS6
ATOM  39458  NH2 ARG F  71     161.764 106.431 -89.791  1.00132.88       FS6
ATOM  39459  C   ARG F  71     164.932 107.174 -83.809  1.00 71.85       FS6
ATOM  39460  O   ARG F  71     165.793 107.096 -84.682  1.00 71.85       FS6
ATOM  39461  N   VAL F  72     164.972 108.103 -82.870  1.00 59.87       FS6
ATOM  39462  CA  VAL F  72     166.060 109.063 -82.867  1.00 59.87       FS6
ATOM  39463  CB  VAL F  72     165.999 109.980 -81.650  1.00 82.55       FS6
ATOM  39464  CG1 VAL F  72     166.952 111.142 -81.841  1.00 82.55       FS6
ATOM  39465  CG2 VAL F  72     164.584 110.460 -81.443  1.00 82.55       FS6
ATOM  39466  C   VAL F  72     167.395 108.334 -82.849  1.00 59.87       FS6
ATOM  39467  O   VAL F  72     168.262 108.587 -83.683  1.00 59.87       FS6
ATOM  39468  N   ASN F  73     167.560 107.425 -81.896  1.00 67.82       FS6
ATOM  39469  CA  ASN F  73     168.805 106.680 -81.802  1.00 67.82       FS6
ATOM  39470  CB  ASN F  73     168.725 105.653 -80.670  1.00108.46       FS6
ATOM  39471  CG  ASN F  73     169.003 106.268 -79.306  1.00108.46       FS6
ATOM  39472  OD1 ASN F  73     170.135 106.648 -78.998  1.00108.46       FS6
ATOM  39473  ND2 ASN F  73     167.967 106.376 -78.487  1.00108.46       FS6
ATOM  39474  C   ASN F  73     169.119 106.001 -83.129  1.00 67.82       FS6
ATOM  39475  O   ASN F  73     170.120 106.324 -83.767  1.00 67.82       FS6
ATOM  39476  N   ASP F  74     168.259 105.074 -83.545  1.00 80.24       FS6
ATOM  39477  CA  ASP F  74     168.437 104.358 -84.809  1.00 80.24       FS6
ATOM  39478  CB  ASP F  74     167.081 103.922 -85.355  1.00193.80       FS6
ATOM  39479  CG  ASP F  74     166.288 103.113 -84.355  1.00193.80       FS6
ATOM  39480  OD1 ASP F  74     166.706 101.980 -84.048  1.00193.80       FS6
ATOM  39481  OD2 ASP F  74     165.251 103.612 -83.870  1.00193.80       FS6
ATOM  39482  C   ASP F  74     169.116 105.277 -85.810  1.00 80.24       FS6
ATOM  39483  O   ASP F  74     170.153 104.934 -86.370  1.00 80.24       FS6
ATOM  39484  N   LEU F  75     168.523 106.452 -86.011  1.00 32.05       FS6
ATOM  39485  CA  LEU F  75     169.047 107.468 -86.930  1.00 32.05       FS6
ATOM  39486  CB  LEU F  75     168.297 108.793 -86.718  1.00 53.35       FS6
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ATOM  39487  CG  LEU F  75     168.647 110.066 -87.509  1.00 53.35       FS6
ATOM  39488  CD1 LEU F  75     170.012 110.590 -87.113  1.00 53.35       FS6
ATOM  39489  CD2 LEU F  75     168.594 109.778 -88.994  1.00 53.35       FS6
ATOM  39490  C   LEU F  75     170.554 107.696 -86.764  1.00 32.05       FS6
ATOM  39491  O   LEU F  75     171.329 107.510 -87.708  1.00 32.05       FS6
ATOM  39492  N   ALA F  76     170.964 108.107 -85.565  1.00 40.51       FS6
ATOM  39493  CA  ALA F  76     172.374 108.364 -85.290  1.00 40.51       FS6
ATOM  39494  CB  ALA F  76     172.524 109.135 -84.003  1.00 10.92       FS6
ATOM  39495  C   ALA F  76     173.167 107.069 -85.221  1.00 40.51       FS6
ATOM  39496  O   ALA F  76     174.345 107.038 -85.552  1.00 40.51       FS6
ATOM  39497  N   ARG F  77     172.520 106.000 -84.779  1.00 65.52       FS6
ATOM  39498  CA  ARG F  77     173.180 104.709 -84.716  1.00 65.52       FS6
ATOM  39499  CB  ARG F  77     172.178 103.632 -84.318  1.00201.06       FS6
ATOM  39500  CG  ARG F  77     172.653 102.212 -84.550  1.00201.06       FS6
ATOM  39501  CD  ARG F  77     171.452 101.300 -84.672  1.00201.06       FS6
ATOM  39502  NE  ARG F  77     170.540 101.484 -83.548  1.00201.06       FS6
ATOM  39503  CZ  ARG F  77     169.280 101.065 -83.531  1.00201.06       FS6
ATOM  39504  NH1 ARG F  77     168.775 100.436 -84.583  1.00201.06       FS6
ATOM  39505  NH2 ARG F  77     168.526 101.274 -82.459  1.00201.06       FS6
ATOM  39506  C   ARG F  77     173.636 104.470 -86.142  1.00 65.52       FS6
ATOM  39507  O   ARG F  77     174.629 103.789 -86.388  1.00 65.52       FS6
ATOM  39508  N   GLU F  78     172.887 105.067 -87.069  1.00 72.04       FS6
ATOM  39509  CA  GLU F  78     173.122 104.972 -88.507  1.00 72.04       FS6
ATOM  39510  CB  GLU F  78     171.786 105.116 -89.243  1.00133.83       FS6
ATOM  39511  CG  GLU F  78     171.882 105.314 -90.747  1.00133.83       FS6
ATOM  39512  CD  GLU F  78     172.394 104.090 -91.476  1.00133.83       FS6
ATOM  39513  OE1 GLU F  78     171.803 103.003 -91.305  1.00133.83       FS6
ATOM  39514  OE2 GLU F  78     173.383 104.220 -92.228  1.00133.83       FS6
ATOM  39515  C   GLU F  78     174.111 106.012 -89.025  1.00 72.04       FS6
ATOM  39516  O   GLU F  78     174.910 105.729 -89.911  1.00 72.04       FS6
ATOM  39517  N   LEU F  79     174.053 107.218 -88.479  1.00 85.34       FS6
ATOM  39518  CA  LEU F  79     174.958 108.267 -88.915  1.00 85.34       FS6
ATOM  39519  CB  LEU F  79     174.548 109.601 -88.305  1.00 49.08       FS6
ATOM  39520  CG  LEU F  79     173.131 110.039 -88.637  1.00 49.08       FS6
ATOM  39521  CD1 LEU F  79     172.915 111.466 -88.168  1.00 49.08       FS6
ATOM  39522  CD2 LEU F  79     172.919 109.939 -90.129  1.00 49.08       FS6
ATOM  39523  C   LEU F  79     176.406 107.972 -88.544  1.00 85.34       FS6
ATOM  39524  O   LEU F  79     177.302 108.061 -89.382  1.00 85.34       FS6
ATOM  39525  N   ARG F  80     176.637 107.625 -87.284  1.00 87.20       FS6
ATOM  39526  CA  ARG F  80     177.984 107.336 -86.818  1.00 87.20       FS6
ATOM  39527  CB  ARG F  80     177.944 106.854 -85.369  1.00114.08       FS6
ATOM  39528  CG  ARG F  80     177.188 107.782 -84.432  1.00114.08       FS6
ATOM  39529  CD  ARG F  80     177.139 107.211 -83.025  1.00114.08       FS6
ATOM  39530  NE  ARG F  80     176.178 107.910 -82.178  1.00114.08       FS6
ATOM  39531  CZ  ARG F  80     176.229 109.207 -81.896  1.00114.08       FS6
ATOM  39532  NH1 ARG F  80     177.199 109.967 -82.393  1.00114.08       FS6
ATOM  39533  NH2 ARG F  80     175.307 109.743 -81.107  1.00114.08       FS6
ATOM  39534  C   ARG F  80     178.679 106.294 -87.686  1.00 87.20       FS6
ATOM  39535  O   ARG F  80     179.907 106.281 -87.778  1.00 87.20       FS6
ATOM  39536  N   ILE F  81     177.895 105.428 -88.322  1.00 71.67       FS6
ATOM  39537  CA  ILE F  81     178.434 104.373 -89.186  1.00 71.67       FS6
ATOM  39538  CB  ILE F  81     177.320 103.714 -90.013  1.00173.95       FS6
ATOM  39539  CG2 ILE F  81     177.904 102.596 -90.865  1.00173.95       FS6
ATOM  39540  CG1 ILE F  81     176.238 103.168 -89.079  1.00173.95       FS6
ATOM  39541  CD1 ILE F  81     175.069 102.517 -89.795  1.00173.95       FS6
ATOM  39542  C   ILE F  81     179.512 104.883 -90.145  1.00 71.67       FS6
ATOM  39543  O   ILE F  81     180.602 104.310 -90.236  1.00 71.67       FS6
ATOM  39544  N   ARG F  82     179.194 105.956 -90.863  1.00 83.46       FS6
ATOM  39545  CA  ARG F  82     180.126 106.569 -91.802  1.00 83.46       FS6
ATOM  39546  CB  ARG F  82     179.533 107.877 -92.337  1.00150.05       FS6
ATOM  39547  CG  ARG F  82     178.345 107.702 -93.276  1.00150.05       FS6
ATOM  39548  CD  ARG F  82     178.811 107.404 -94.692  1.00150.05       FS6
ATOM  39549  NE  ARG F  82     179.641 106.205 -94.768  1.00150.05       FS6
ATOM  39550  CZ  ARG F  82     180.347 105.850 -95.837  1.00150.05       FS6
ATOM  39551  NH1 ARG F  82     180.330 106.604 -96.928  1.00150.05       FS6
ATOM  39552  NH2 ARG F  82     181.072 104.741 -95.814  1.00150.05       FS6
ATOM  39553  C   ARG F  82     181.454 106.848 -91.100  1.00 83.46       FS6
ATOM  39554  O   ARG F  82     181.477 107.224 -89.929  1.00 83.46       FS6
ATOM  39555  N   ASP F  83     182.558 106.671 -91.819  1.00108.37       FS6
ATOM  39556  CA  ASP F  83     183.881 106.891 -91.242  1.00108.37       FS6
ATOM  39557  CB  ASP F  83     184.919 106.022 -91.958  1.00201.26       FS6
ATOM  39558  CG  ASP F  83     184.740 104.540 -91.665  1.00201.26       FS6
ATOM  39559  OD1 ASP F  83     185.527 103.725 -92.192  1.00201.26       FS6
ATOM  39560  OD2 ASP F  83     183.810 104.191 -90.905  1.00201.26       FS6
ATOM  39561  C   ASP F  83     184.342 108.345 -91.230  1.00108.37       FS6
ATOM  39562  O   ASP F  83     184.954 108.793 -90.262  1.00108.37       FS6
ATOM  39563  N   ASN F  84     184.065 109.089 -92.294  1.00 94.74       FS6
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ATOM  39564  CA  ASN F  84     184.477 110.486 -92.315  1.00 94.74      FS6
ATOM  39565  CB  ASN F  84     184.327 111.087 -93.711  1.00135.94      FS6
ATOM  39566  CG  ASN F  84     185.554 110.863 -94.568  1.00135.94      FS6
ATOM  39567  OD1 ASN F  84     186.662 111.272 -94.208  1.00135.94      FS6
ATOM  39568  ND2 ASN F  84     185.368 110.210 -95.708  1.00135.94      FS6
ATOM  39569  C   ASN F  84     183.669 111.284 -91.311  1.00 94.74      FS6
ATOM  39570  O   ASN F  84     183.972 112.445 -91.042  1.00 94.74      FS6
ATOM  39571  N   VAL F  85     182.634 110.656 -90.763  1.00 92.66      FS6
ATOM  39572  CA  VAL F  85     181.802 111.300 -89.758  1.00 92.66      FS6
ATOM  39573  CB  VAL F  85     180.369 110.744 -89.758  1.00100.99      FS6
ATOM  39574  CG1 VAL F  85     179.583 111.366 -88.628  1.00100.99      FS6
ATOM  39575  CG2 VAL F  85     179.694 111.044 -91.083  1.00100.99      FS6
ATOM  39576  C   VAL F  85     182.459 110.975 -88.429  1.00 92.66      FS6
ATOM  39577  O   VAL F  85     182.580 109.804 -88.058  1.00 92.66      FS6
ATOM  39578  N   ARG F  86     182.888 112.009 -87.716  1.00101.72      FS6
ATOM  39579  CA  ARG F  86     183.566 111.810 -86.444  1.00101.72      FS6
ATOM  39580  CB  ARG F  86     184.925 112.511 -86.499  1.00100.20      FS6
ATOM  39581  CG  ARG F  86     185.007 113.612 -87.551  1.00100.20      FS6
ATOM  39582  CD  ARG F  86     186.456 114.030 -87.846  1.00100.20      FS6
ATOM  39583  NE  ARG F  86     187.180 113.045 -88.651  1.00100.20      FS6
ATOM  39584  CZ  ARG F  86     188.389 113.242 -89.170  1.00100.20      FS6
ATOM  39585  NH1 ARG F  86     189.024 114.391 -88.971  1.00100.20      FS6
ATOM  39586  NH2 ARG F  86     188.957 112.292 -89.900  1.00100.20      FS6
ATOM  39587  C   ARG F  86     182.785 112.222 -85.190  1.00101.72      FS6
ATOM  39588  O   ARG F  86     183.090 111.767 -84.083  1.00101.72      FS6
ATOM  39589  N   ARG F  87     181.775 113.070 -85.365  1.00 52.55      FS6
ATOM  39590  CA  ARG F  87     180.946 113.522 -84.254  1.00 52.55      FS6
ATOM  39591  CB  ARG F  87     181.467 114.839 -83.705  1.00 51.07      FS6
ATOM  39592  CG  ARG F  87     182.625 114.708 -82.758  1.00 51.07      FS6
ATOM  39593  CD  ARG F  87     182.170 114.418 -81.346  1.00 51.07      FS6
ATOM  39594  NE  ARG F  87     183.214 114.788 -80.392  1.00 51.07      FS6
ATOM  39595  CZ  ARG F  87     184.356 114.124 -80.228  1.00 51.07      FS6
ATOM  39596  NH1 ARG F  87     184.612 113.039 -80.954  1.00 51.07      FS6
ATOM  39597  NH2 ARG F  87     185.249 114.551 -79.343  1.00 51.07      FS6
ATOM  39598  C   ARG F  87     179.501 113.713 -84.674  1.00 52.55      FS6
ATOM  39599  O   ARG F  87     179.216 114.258 -85.739  1.00 52.55      FS6
ATOM  39600  N   VAL F  88     178.590 113.250 -83.828  1.00 54.00      FS6
ATOM  39601  CA  VAL F  88     177.164 113.394 -84.075  1.00 54.00      FS6
ATOM  39602  CB  VAL F  88     176.542 112.120 -84.628  1.00 43.25      FS6
ATOM  39603  CG1 VAL F  88     175.197 112.444 -85.247  1.00 43.25      FS6
ATOM  39604  CG2 VAL F  88     177.476 111.471 -85.623  1.00 43.25      FS6
ATOM  39605  C   VAL F  88     176.524 113.646 -82.730  1.00 54.00      FS6
ATOM  39606  O   VAL F  88     176.813 112.935 -81.774  1.00 54.00      FS6
ATOM  39607  N   MET F  89     175.672 114.659 -82.644  1.00 43.35      FS6
ATOM  39608  CA  MET F  89     174.999 114.951 -81.384  1.00 43.35      FS6
ATOM  39609  CB  MET F  89     175.796 115.964 -80.563  1.00 66.13      FS6
ATOM  39610  CG  MET F  89     175.255 116.158 -79.152  1.00 66.13      FS6
ATOM  39611  SD  MET F  89     176.315 117.206 -78.153  1.00 66.13      FS6
ATOM  39612  CE  MET F  89     175.606 118.791 -78.472  1.00 66.13      FS6
ATOM  39613  C   MET F  89     173.581 115.463 -81.596  1.00 43.35      FS6
ATOM  39614  O   MET F  89     173.357 116.658 -81.774  1.00 43.35      FS6
ATOM  39615  N   VAL F  90     172.630 114.539 -81.556  1.00 50.70      FS6
ATOM  39616  CA  VAL F  90     171.226 114.856 -81.747  1.00 50.70      FS6
ATOM  39617  CB  VAL F  90     170.454 113.605 -82.136  1.00 57.41      FS6
ATOM  39618  CG1 VAL F  90     169.043 113.980 -82.530  1.00 57.41      FS6
ATOM  39619  CG2 VAL F  90     171.173 112.888 -83.256  1.00 57.41      FS6
ATOM  39620  C   VAL F  90     170.552 115.467 -80.516  1.00 50.70      FS6
ATOM  39621  O   VAL F  90     169.875 114.776 -79.751  1.00 50.70      FS6
ATOM  39622  N   VAL F  91     170.736 116.765 -80.330  1.00 65.50      FS6
ATOM  39623  CA  VAL F  91     170.122 117.455 -79.211  1.00 65.50      FS6
ATOM  39624  CB  VAL F  91     170.602 118.903 -79.143  1.00 79.61      FS6
ATOM  39625  CG1 VAL F  91     170.145 119.543 -77.853  1.00 79.61      FS6
ATOM  39626  CG2 VAL F  91     172.107 118.948 -79.265  1.00 79.61      FS6
ATOM  39627  C   VAL F  91     168.617 117.456 -79.468  1.00 65.50      FS6
ATOM  39628  O   VAL F  91     168.156 116.885 -80.456  1.00 65.50      FS6
ATOM  39629  N   LYS F  92     167.854 118.087 -78.580  1.00 56.02      FS6
ATOM  39630  CA  LYS F  92     166.407 118.181 -78.734  1.00 56.02      FS6
ATOM  39631  CB  LYS F  92     165.704 117.521 -77.560  1.00 68.35      FS6
ATOM  39632  CG  LYS F  92     164.198 117.528 -77.690  1.00 68.35      FS6
ATOM  39633  CD  LYS F  92     163.530 116.815 -76.516  1.00 68.35      FS6
ATOM  39634  CE  LYS F  92     163.901 115.336 -76.437  1.00 68.35      FS6
ATOM  39635  NZ  LYS F  92     163.197 114.688 -75.298  1.00 68.35      FS6
ATOM  39636  C   LYS F  92     166.056 119.657 -78.774  1.00 56.02      FS6
ATOM  39637  O   LYS F  92     166.657 120.455 -78.058  1.00 56.02      FS6
ATOM  39638  N   SER F  93     165.094 120.034 -79.607  1.00 49.13      FS6
ATOM  39639  CA  SER F  93     164.726 121.443 -79.710  1.00 49.13      FS6
ATOM  39640  CB  SER F  93     163.548 121.613 -80.665  1.00 90.83      FS6
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ATOM  39641  OG  SER F  93     163.888 121.163 -81.962  1.00 90.83       FS6
ATOM  39642  C   SER F  93     164.376 122.022 -78.347  1.00 49.13       FS6
ATOM  39643  O   SER F  93     163.576 121.452 -77.615  1.00 49.13       FS6
ATOM  39644  N   GLN F  94     164.977 123.154 -78.007  1.00 57.07       FS6
ATOM  39645  CA  GLN F  94     164.719 123.798 -76.722  1.00 57.07       FS6
ATOM  39646  CB  GLN F  94     165.935 123.631 -75.807  1.00136.82       FS6
ATOM  39647  CG  GLN F  94     166.140 122.221 -75.292  1.00136.82       FS6
ATOM  39648  CD  GLN F  94     165.097 121.829 -74.266  1.00136.82       FS6
ATOM  39649  OE1 GLN F  94     165.006 120.668 -73.870  1.00136.82       FS6
ATOM  39650  NE2 GLN F  94     164.307 122.801 -73.822  1.00136.82       FS6
ATOM  39651  C   GLN F  94     164.405 125.286 -76.883  1.00 57.07       FS6
ATOM  39652  O   GLN F  94     165.042 125.985 -77.669  1.00 57.07       FS6
ATOM  39653  N   GLU F  95     163.416 125.779 -76.150  1.00 73.96       FS6
ATOM  39654  CA  GLU F  95     163.086 127.193 -76.243  1.00 73.96       FS6
ATOM  39655  CB  GLU F  95     161.877 127.524 -75.366  1.00201.12       FS6
ATOM  39656  CG  GLU F  95     160.569 126.900 -75.840  1.00201.12       FS6
ATOM  39657  CD  GLU F  95     160.627 125.384 -75.913  1.00201.12       FS6
ATOM  39658  OE1 GLU F  95     160.939 124.745 -74.885  1.00201.12       FS6
ATOM  39659  OE2 GLU F  95     160.358 124.831 -77.001  1.00201.12       FS6
ATOM  39660  C   GLU F  95     164.317 127.951 -75.758  1.00 73.96       FS6
ATOM  39661  O   GLU F  95     164.877 127.647 -74.706  1.00 73.96       FS6
ATOM  39662  N   PRO F  96     164.764 128.944 -76.525  1.00 46.03       FS6
ATOM  39663  CD  PRO F  96     164.214 129.487 -77.777  1.00 98.66       FS6
ATOM  39664  CA  PRO F  96     165.945 129.696 -76.099  1.00 46.03       FS6
ATOM  39665  CB  PRO F  96     166.179 130.651 -77.269  1.00 98.66       FS6
ATOM  39666  CG  PRO F  96     164.794 130.880 -77.796  1.00 98.66       FS6
ATOM  39667  C   PRO F  96     165.846 130.426 -74.749  1.00 46.03       FS6
ATOM  39668  O   PRO F  96     165.318 131.534 -74.653  1.00 46.03       FS6
ATOM  39669  N   PHE F  97     166.363 129.802 -73.701  1.00 40.27       FS6
ATOM  39670  CA  PHE F  97     166.356 130.441 -72.398  1.00 40.27       FS6
ATOM  39671  CB  PHE F  97     166.677 129.428 -71.295  1.00 54.28       FS6
ATOM  39672  CG  PHE F  97     166.641 130.018 -69.916  1.00 54.28       FS6
ATOM  39673  CD1 PHE F  97     165.467 130.025 -69.181  1.00 54.28       FS6
ATOM  39674  CD2 PHE F  97     167.766 130.637 -69.383  1.00 54.28       FS6
ATOM  39675  CE1 PHE F  97     165.416 130.642 -67.941  1.00 54.28       FS6
ATOM  39676  CE2 PHE F  97     167.722 131.258 -68.144  1.00 54.28       FS6
ATOM  39677  CZ  PHE F  97     166.548 131.262 -67.423  1.00 54.28       FS6
ATOM  39678  C   PHE F  97     167.413 131.566 -72.386  1.00 40.27       FS6
ATOM  39679  O   PHE F  97     168.621 131.304 -72.297  1.00 40.27       FS6
ATOM  39680  N   LEU F  98     166.954 132.814 -72.465  1.00 77.15       FS6
ATOM  39681  CA  LEU F  98     167.854 133.965 -72.471  1.00 77.15       FS6
ATOM  39682  CB  LEU F  98     167.144 135.189 -73.028  1.00 88.25       FS6
ATOM  39683  CG  LEU F  98     166.604 135.068 -74.443  1.00 88.25       FS6
ATOM  39684  CD1 LEU F  98     165.932 136.376 -74.813  1.00 88.25       FS6
ATOM  39685  CD2 LEU F  98     167.737 134.739 -75.408  1.00 88.25       FS6
ATOM  39686  C   LEU F  98     168.389 134.325 -71.101  1.00 77.15       FS6
ATOM  39687  O   LEU F  98     168.071 133.680 -70.106  1.00 77.15       FS6
ATOM  39688  N   ALA F  99     169.198 135.377 -71.070  1.00 85.43       FS6
ATOM  39689  CA  ALA F  99     169.796 135.878 -69.838  1.00 85.43       FS6
ATOM  39690  CB  ALA F  99     170.861 134.934 -69.344  1.00 82.80       FS6
ATOM  39691  C   ALA F  99     170.416 137.224 -70.138  1.00 85.43       FS6
ATOM  39692  O   ALA F  99     170.801 137.494 -71.279  1.00 85.43       FS6
ATOM  39693  N   ASN F 100     170.521 138.067 -69.115  1.00129.59       FS6
ATOM  39694  CA  ASN F 100     171.103 139.389 -69.293  1.00129.59       FS6
ATOM  39695  CB  ASN F 100     172.617 139.258 -69.493  1.00134.27       FS6
ATOM  39696  CG  ASN F 100     173.319 140.597 -69.533  1.00134.27       FS6
ATOM  39697  OD1 ASN F 100     173.248 141.321 -70.525  1.00134.27       FS6
ATOM  39698  ND2 ASN F 100     173.999 140.938 -68.444  1.00134.27       FS6
ATOM  39699  C   ASN F 100     170.447 140.023 -70.516  1.00129.59       FS6
ATOM  39700  O   ASN F 100     171.125 140.478 -71.436  1.00129.59       FS6
ATOM  39701  N   ALA F 101     169.117 140.031 -70.519  1.00186.67       FS6
ATOM  39702  CA  ALA F 101     168.346 140.590 -71.625  1.00186.67       FS6
ATOM  39703  CB  ALA F 101     167.958 139.481 -72.595  1.00182.81       FS6
ATOM  39704  C   ALA F 101     167.092 141.300 -71.123  1.00186.67       FS6
ATOM  39705  O   ALA F 101     166.865 141.291 -69.895  1.00186.67       FS6
ATOM  39706  OXT ALA F 101     166.351 141.850 -71.965  1.00182.81       FS6
TER   39706       ALA F 101                                              FS6
ATOM  39707  CB  ALA G   2     216.765 136.932 -23.426  1.00 58.50       GS7
ATOM  39708  C   ALA G   2     214.344 136.605 -22.925  1.00 46.81       GS7
ATOM  39709  O   ALA G   2     214.134 136.952 -24.090  1.00 46.81       GS7
ATOM  39710  N   ALA G   2     216.124 135.700 -21.370  1.00 46.81       GS7
ATOM  39711  CA  ALA G   2     215.728 136.793 -22.309  1.00 46.81       GS7
ATOM  39712  N   ARG G   3     213.401 136.069 -22.157  1.00 30.74       GS7
ATOM  39713  CA  ARG G   3     212.055 135.877 -22.685  1.00 30.74       GS7
ATOM  39714  CB  ARG G   3     211.273 134.865 -21.839  1.00 31.68       GS7
ATOM  39715  CG  ARG G   3     210.113 134.223 -22.609  1.00 31.68       GS7
ATOM  39716  CD  ARG G   3     209.130 133.528 -21.691  1.00 31.68       GS7
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ATOM  39717  NE  ARG G   3     209.686 132.378 -20.984  1.00 31.68       GS7
ATOM  39718  CZ  ARG G   3     209.791 131.166 -21.511  1.00 31.68       GS7
ATOM  39719  NH1 ARG G   3     209.377 130.949 -22.755  1.00 31.68       GS7
ATOM  39720  NH2 ARG G   3     210.300 130.177 -20.792  1.00 31.68       GS7
ATOM  39721  C   ARG G   3     211.315 137.217 -22.707  1.00 30.74       GS7
ATOM  39722  O   ARG G   3     210.380 137.419 -23.483  1.00 30.74       GS7
ATOM  39723  N   ARG G   4     211.758 138.122 -21.841  1.00 52.18       GS7
ATOM  39724  CA  ARG G   4     211.192 139.455 -21.710  1.00 52.18       GS7
ATOM  39725  CB  ARG G   4     211.675 140.088 -20.407  1.00 99.19       GS7
ATOM  39726  CG  ARG G   4     211.011 139.540 -19.180  1.00 99.19       GS7
ATOM  39727  CD  ARG G   4     209.560 139.978 -19.126  1.00 99.19       GS7
ATOM  39728  NE  ARG G   4     208.894 139.498 -17.920  1.00 99.19       GS7
ATOM  39729  CZ  ARG G   4     207.633 139.769 -17.603  1.00 99.19       GS7
ATOM  39730  NH1 ARG G   4     206.894 140.522 -18.410  1.00 99.19       GS7
ATOM  39731  NH2 ARG G   4     207.110 139.283 -16.484  1.00 99.19       GS7
ATOM  39732  C   ARG G   4     211.559 140.369 -22.869  1.00 52.18       GS7
ATOM  39733  O   ARG G   4     210.991 140.269 -23.951  1.00 52.18       GS7
ATOM  39734  N   ARG G   5     212.517 141.260 -22.624  1.00124.29       GS7
ATOM  39735  CA  ARG G   5     212.974 142.225 -23.620  1.00124.29       GS7
ATOM  39736  CB  ARG G   5     213.716 143.377 -22.932  1.00201.26       GS7
ATOM  39737  CG  ARG G   5     213.972 144.597 -23.813  1.00201.26       GS7
ATOM  39738  CD  ARG G   5     212.713 145.427 -23.983  1.00201.26       GS7
ATOM  39739  NE  ARG G   5     212.237 145.930 -22.697  1.00201.26       GS7
ATOM  39740  CZ  ARG G   5     211.138 146.658 -22.534  1.00201.26       GS7
ATOM  39741  NH1 ARG G   5     210.389 146.976 -23.582  1.00201.26       GS7
ATOM  39742  NH2 ARG G   5     210.786 147.068 -21.321  1.00201.26       GS7
ATOM  39743  C   ARG G   5     213.896 141.584 -24.641  1.00124.29       GS7
ATOM  39744  O   ARG G   5     213.933 140.363 -24.790  1.00124.29       GS7
ATOM  39745  N   ARG G   6     214.643 142.429 -25.338  1.00 88.01       GS7
ATOM  39746  CA  ARG G   6     215.582 141.989 -26.354  1.00 88.01       GS7
ATOM  39747  CB  ARG G   6     215.215 142.634 -27.691  1.00177.54       GS7
ATOM  39748  CG  ARG G   6     215.877 142.039 -28.919  1.00177.54       GS7
ATOM  39749  CD  ARG G   6     215.181 142.576 -30.162  1.00177.54       GS7
ATOM  39750  NE  ARG G   6     215.803 142.147 -31.410  1.00177.54       GS7
ATOM  39751  CZ  ARG G   6     215.314 142.427 -32.616  1.00177.54       GS7
ATOM  39752  NH1 ARG G   6     214.197 143.134 -32.731  1.00177.54       GS7
ATOM  39753  NH2 ARG G   6     215.942 142.009 -33.707  1.00177.54       GS7
ATOM  39754  C   ARG G   6     216.963 142.437 -25.894  1.00 88.01       GS7
ATOM  39755  O   ARG G   6     217.671 143.137 -26.615  1.00 88.01       GS7
ATOM  39756  N   ALA G   7     217.322 142.027 -24.676  1.00109.50       GS7
ATOM  39757  CA  ALA G   7     218.603 142.357 -24.044  1.00109.50       GS7
ATOM  39758  CB  ALA G   7     219.331 141.071 -23.630  1.00 90.17       GS7
ATOM  39759  C   ALA G   7     219.527 143.228 -24.892  1.00109.50       GS7
ATOM  39760  O   ALA G   7     220.190 142.747 -25.810  1.00109.50       GS7
ATOM  39761  N   GLU G   8     219.559 144.517 -24.570  1.00 91.62       GS7
ATOM  39762  CA  GLU G   8     220.393 145.475 -25.279  1.00 91.62       GS7
ATOM  39763  CB  GLU G   8     220.133 146.888 -24.748  1.00172.30       GS7
ATOM  39764  CG  GLU G   8     219.805 146.970 -23.254  1.00172.30       GS7
ATOM  39765  CD  GLU G   8     220.882 146.379 -22.358  1.00172.30       GS7
ATOM  39766  OE1 GLU G   8     221.038 145.141 -22.338  1.00172.30       GS7
ATOM  39767  OE2 GLU G   8     221.572 147.159 -21.670  1.00172.30       GS7
ATOM  39768  C   GLU G   8     221.877 145.142 -25.161  1.00 91.62       GS7
ATOM  39769  O   GLU G   8     222.309 144.481 -24.208  1.00 91.62       GS7
ATOM  39770  N   VAL G   9     222.657 145.609 -26.134  1.00 77.17       GS7
ATOM  39771  CA  VAL G   9     224.091 145.351 -26.153  1.00 77.17       GS7
ATOM  39772  CB  VAL G   9     224.704 145.688 -27.531  1.00122.62       GS7
ATOM  39773  CG1 VAL G   9     226.163 145.259 -27.571  1.00122.62       GS7
ATOM  39774  CG2 VAL G   9     223.916 144.999 -28.635  1.00122.62       GS7
ATOM  39775  C   VAL G   9     224.819 146.152 -25.083  1.00 77.17       GS7
ATOM  39776  O   VAL G   9     224.795 147.384 -25.084  1.00 77.17       GS7
ATOM  39777  N   ARG G  10     225.457 145.435 -24.167  1.00 65.28       GS7
ATOM  39778  CA  ARG G  10     226.214 146.046 -23.081  1.00 65.28       GS7
ATOM  39779  CB  ARG G  10     226.685 144.944 -22.124  1.00 50.17       GS7
ATOM  39780  CG  ARG G  10     227.443 145.428 -20.904  1.00 50.17       GS7
ATOM  39781  CD  ARG G  10     227.991 144.251 -20.092  1.00 50.17       GS7
ATOM  39782  NE  ARG G  10     227.010 143.612 -19.208  1.00 50.17       GS7
ATOM  39783  CZ  ARG G  10     226.667 144.071 -18.008  1.00 50.17       GS7
ATOM  39784  NH1 ARG G  10     227.217 145.180 -17.535  1.00 50.17       GS7
ATOM  39785  NH2 ARG G  10     225.790 143.413 -17.266  1.00 50.17       GS7
ATOM  39786  C   ARG G  10     227.417 146.804 -23.661  1.00 65.28       GS7
ATOM  39787  O   ARG G  10     228.408 146.186 -24.053  1.00 65.28       GS7
ATOM  39788  N   GLN G  11     227.327 148.134 -23.725  1.00 81.53       GS7
ATOM  39789  CA  GLN G  11     228.413 148.961 -24.265  1.00 81.53       GS7
ATOM  39790  CB  GLN G  11     227.929 150.394 -24.480  1.00 92.33       GS7
ATOM  39791  CG  GLN G  11     226.611 150.485 -25.224  1.00 92.33       GS7
ATOM  39792  CD  GLN G  11     226.676 149.885 -26.614  1.00 92.33       GS7
ATOM  39793  OE1 GLN G  11     227.082 148.738 -26.793  1.00 92.33       GS7
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ATOM  39794  NE2 GLN G  11     226.266 150.659 -27.609  1.00 92.33       GS7
ATOM  39795  C   GLN G  11     229.606 148.964 -23.316  1.00 81.53       GS7
ATOM  39796  O   GLN G  11     229.450 148.673 -22.131  1.00 81.53       GS7
ATOM  39797  N   LEU G  12     230.793 149.296 -23.822  1.00 79.53       GS7
ATOM  39798  CA  LEU G  12     231.989 149.298 -22.976  1.00 79.53       GS7
ATOM  39799  CB  LEU G  12     232.887 148.110 -23.324  1.00 77.17       GS7
ATOM  39800  CG  LEU G  12     232.177 146.792 -23.638  1.00 77.17       GS7
ATOM  39801  CD1 LEU G  12     231.660 146.840 -25.069  1.00 77.17       GS7
ATOM  39802  CD2 LEU G  12     233.127 145.620 -23.470  1.00 77.17       GS7
ATOM  39803  C   LEU G  12     232.802 150.577 -23.095  1.00 79.53       GS7
ATOM  39804  O   LEU G  12     232.769 151.249 -24.123  1.00 79.53       GS7
ATOM  39805  N   GLN G  13     233.533 150.907 -22.036  1.00110.43       GS7
ATOM  39806  CA  GLN G  13     234.371 152.102 -22.026  1.00110.43       GS7
ATOM  39807  CB  GLN G  13     234.955 152.329 -20.628  1.00188.78       GS7
ATOM  39808  CG  GLN G  13     233.926 152.673 -19.563  1.00188.78       GS7
ATOM  39809  CD  GLN G  13     233.338 154.060 -19.744  1.00188.78       GS7
ATOM  39810  OE1 GLN G  13     234.037 155.066 -19.613  1.00188.78       GS7
ATOM  39811  NE2 GLN G  13     232.046 154.121 -20.049  1.00188.78       GS7
ATOM  39812  C   GLN G  13     235.502 151.897 -23.025  1.00110.43       GS7
ATOM  39813  O   GLN G  13     236.105 150.829 -23.066  1.00110.43       GS7
ATOM  39814  N   PRO G  14     235.811 152.920 -23.840  1.00 89.61       GS7
ATOM  39815  CD  PRO G  14     235.337 154.307 -23.734  1.00100.71       GS7
ATOM  39816  CA  PRO G  14     236.882 152.824 -24.838  1.00 89.61       GS7
ATOM  39817  CB  PRO G  14     236.927 154.229 -25.432  1.00100.71       GS7
ATOM  39818  CG  PRO G  14     236.514 155.078 -24.290  1.00100.71       GS7
ATOM  39819  C   PRO G  14     238.218 152.396 -24.240  1.00 89.61       GS7
ATOM  39820  O   PRO G  14     238.289 152.008 -23.072  1.00 89.61       GS7
ATOM  39821  N   ASP G  15     239.279 152.471 -25.035  1.00106.50       GS7
ATOM  39822  CA  ASP G  15     240.582 152.055 -24.548  1.00106.50       GS7
ATOM  39823  CB  ASP G  15     241.316 151.269 -25.618  1.00109.78       GS7
ATOM  39824  CG  ASP G  15     242.627 150.750 -25.119  1.00109.78       GS7
ATOM  39825  OD1 ASP G  15     242.649 150.314 -23.948  1.00109.78       GS7
ATOM  39826  OD2 ASP G  15     243.621 150.774 -25.876  1.00109.78       GS7
ATOM  39827  C   ASP G  15     241.492 153.163 -24.037  1.00106.50       GS7
ATOM  39828  O   ASP G  15     241.600 154.225 -24.649  1.00106.50       GS7
ATOM  39829  N   LEU G  16     242.158 152.888 -22.915  1.00136.96       GS7
ATOM  39830  CA  LEU G  16     243.069 153.837 -22.276  1.00136.96       GS7
ATOM  39831  CB  LEU G  16     243.525 153.313 -20.907  1.00152.47       GS7
ATOM  39832  CG  LEU G  16     242.509 153.072 -19.787  1.00152.47       GS7
ATOM  39833  CD1 LEU G  16     241.693 154.332 -19.573  1.00152.47       GS7
ATOM  39834  CD2 LEU G  16     241.606 151.899 -20.135  1.00152.47       GS7
ATOM  39835  C   LEU G  16     244.304 154.122 -23.120  1.00136.96       GS7
ATOM  39836  O   LEU G  16     245.233 154.790 -22.665  1.00136.96       GS7
ATOM  39837  N   VAL G  17     244.322 153.608 -24.343  1.00 74.94       GS7
ATOM  39838  CA  VAL G  17     245.457 153.826 -25.228  1.00 74.94       GS7
ATOM  39839  CB  VAL G  17     246.361 152.592 -25.292  1.00 54.53       GS7
ATOM  39840  CG1 VAL G  17     247.487 152.841 -26.270  1.00 54.53       GS7
ATOM  39841  CG2 VAL G  17     246.913 152.277 -23.906  1.00 54.53       GS7
ATOM  39842  C   VAL G  17     245.026 154.176 -26.644  1.00 74.94       GS7
ATOM  39843  O   VAL G  17     245.251 155.294 -27.103  1.00 74.94       GS7
ATOM  39844  N   TYR G  18     244.418 153.216 -27.337  1.00 60.71       GS7
ATOM  39845  CA  TYR G  18     243.949 153.437 -28.700  1.00 60.71       GS7
ATOM  39846  CB  TYR G  18     243.924 152.121 -29.479  1.00 73.55       GS7
ATOM  39847  CG  TYR G  18     245.258 151.422 -29.501  1.00 73.55       GS7
ATOM  39848  CD1 TYR G  18     245.828 150.945 -28.324  1.00 73.55       GS7
ATOM  39849  CE1 TYR G  18     247.079 150.349 -28.319  1.00 73.55       GS7
ATOM  39850  CD2 TYR G  18     245.974 151.279 -30.687  1.00 73.55       GS7
ATOM  39851  CE2 TYR G  18     247.233 150.681 -30.697  1.00 73.55       GS7
ATOM  39852  CZ  TYR G  18     247.781 150.221 -29.505  1.00 73.55       GS7
ATOM  39853  OH  TYR G  18     249.038 149.658 -29.481  1.00 73.55       GS7
ATOM  39854  C   TYR G  18     242.555 154.040 -28.647  1.00 60.71       GS7
ATOM  39855  O   TYR G  18     242.150 154.766 -29.553  1.00 60.71       GS7
ATOM  39856  N   GLY G  19     241.825 153.736 -27.579  1.00100.69       GS7
ATOM  39857  CA  GLY G  19     240.491 154.279 -27.422  1.00100.69       GS7
ATOM  39858  C   GLY G  19     239.389 153.545 -28.161  1.00100.69       GS7
ATOM  39859  O   GLY G  19     238.213 153.890 -28.018  1.00100.69       GS7
ATOM  39860  N   ASP G  20     239.741 152.546 -28.963  1.00 86.02       GS7
ATOM  39861  CA  ASP G  20     238.708 151.810 -29.673  1.00 86.02       GS7
ATOM  39862  CB  ASP G  20     239.216 151.258 -31.004  1.00168.47       GS7
ATOM  39863  CG  ASP G  20     238.113 150.592 -31.808  1.00168.47       GS7
ATOM  39864  OD1 ASP G  20     237.661 149.499 -31.408  1.00168.47       GS7
ATOM  39865  OD2 ASP G  20     237.685 151.167 -32.830  1.00168.47       GS7
ATOM  39866  C   ASP G  20     238.235 150.673 -28.790  1.00 86.02       GS7
ATOM  39867  O   ASP G  20     239.032 149.864 -28.314  1.00 86.02       GS7
ATOM  39868  N   VAL G  21     236.926 150.635 -28.576  1.00 80.87       GS7
ATOM  39869  CA  VAL G  21     236.280 149.633 -27.741  1.00 80.87       GS7
ATOM  39870  CB  VAL G  21     234.765 149.754 -27.863  1.00106.71       GS7
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ATOM  39871  CG1 VAL G  21     234.344 151.171 -27.532  1.00106.71      GS7
ATOM  39872  CG2 VAL G  21     234.331 149.393 -29.272  1.00106.71      GS7
ATOM  39873  C   VAL G  21     236.674 148.192 -28.043  1.00 80.87      GS7
ATOM  39874  O   VAL G  21     236.956 147.415 -27.129  1.00 80.87      GS7
ATOM  39875  N   LEU G  22     236.683 147.833 -29.323  1.00 68.95      GS7
ATOM  39876  CA  LEU G  22     237.035 146.478 -29.717  1.00 68.95      GS7
ATOM  39877  CB  LEU G  22     237.324 146.410 -31.214  1.00 51.83      GS7
ATOM  39878  CG  LEU G  22     237.806 145.034 -31.674  1.00 51.83      GS7
ATOM  39879  CD1 LEU G  22     236.756 143.990 -31.340  1.00 51.83      GS7
ATOM  39880  CD2 LEU G  22     238.084 145.054 -33.160  1.00 51.83      GS7
ATOM  39881  C   LEU G  22     238.245 145.987 -28.940  1.00 68.95      GS7
ATOM  39882  O   LEU G  22     238.294 144.835 -28.516  1.00 68.95      GS7
ATOM  39883  N   VAL G  23     239.223 146.864 -28.753  1.00 38.66      GS7
ATOM  39884  CA  VAL G  23     240.418 146.497 -28.005  1.00 38.66      GS7
ATOM  39885  CB  VAL G  23     241.391 147.698 -27.872  1.00 42.89      GS7
ATOM  39886  CG1 VAL G  23     242.507 147.365 -26.896  1.00 42.89      GS7
ATOM  39887  CG2 VAL G  23     241.976 148.045 -29.239  1.00 42.89      GS7
ATOM  39888  C   VAL G  23     239.991 146.027 -26.619  1.00 38.66      GS7
ATOM  39889  O   VAL G  23     240.319 144.918 -26.188  1.00 38.66      GS7
ATOM  39890  N   THR G  24     239.242 146.876 -25.932  1.00 44.49      GS7
ATOM  39891  CA  THR G  24     238.752 146.545 -24.608  1.00 44.49      GS7
ATOM  39892  CB  THR G  24     237.678 147.521 -24.174  1.00 35.91      GS7
ATOM  39893  OG1 THR G  24     237.978 148.814 -24.712  1.00 35.91      GS7
ATOM  39894  CG2 THR G  24     237.627 147.602 -22.653  1.00 35.91      GS7
ATOM  39895  C   THR G  24     238.129 145.161 -24.677  1.00 44.49      GS7
ATOM  39896  O   THR G  24     238.555 144.225 -23.987  1.00 44.49      GS7
ATOM  39897  N   ALA G  25     237.113 145.049 -25.525  1.00 38.71      GS7
ATOM  39898  CA  ALA G  25     236.413 143.794 -25.724  1.00 38.71      GS7
ATOM  39899  CB  ALA G  25     235.655 143.832 -27.037  1.00 42.75      GS7
ATOM  39900  C   ALA G  25     237.422 142.662 -25.738  1.00 38.71      GS7
ATOM  39901  O   ALA G  25     237.280 141.675 -25.016  1.00 38.71      GS7
ATOM  39902  N   PHE G  26     238.453 142.831 -26.557  1.00 55.53      GS7
ATOM  39903  CA  PHE G  26     239.506 141.837 -26.698  1.00 55.53      GS7
ATOM  39904  CB  PHE G  26     240.484 142.265 -27.791  1.00 43.49      GS7
ATOM  39905  CG  PHE G  26     241.496 141.217 -28.144  1.00 43.49      GS7
ATOM  39906  CD1 PHE G  26     241.131 140.114 -28.902  1.00 43.49      GS7
ATOM  39907  CD2 PHE G  26     242.811 141.337 -27.729  1.00 43.49      GS7
ATOM  39908  CE1 PHE G  26     242.063 139.150 -29.242  1.00 43.49      GS7
ATOM  39909  CE2 PHE G  26     243.745 140.380 -28.063  1.00 43.49      GS7
ATOM  39910  CZ  PHE G  26     243.373 139.284 -28.821  1.00 43.49      GS7
ATOM  39911  C   PHE G  26     240.269 141.669 -25.399  1.00 55.53      GS7
ATOM  39912  O   PHE G  26     240.494 140.549 -24.932  1.00 55.53      GS7
ATOM  39913  N   ILE G  27     240.666 142.793 -24.818  1.00 42.59      GS7
ATOM  39914  CA  ILE G  27     241.431 142.757 -23.587  1.00 42.59      GS7
ATOM  39915  CB  ILE G  27     241.817 144.175 -23.129  1.00 39.13      GS7
ATOM  39916  CG2 ILE G  27     242.800 144.096 -21.940  1.00 39.13      GS7
ATOM  39917  CG1 ILE G  27     242.443 144.924 -24.316  1.00 39.13      GS7
ATOM  39918  CD1 ILE G  27     242.943 146.299 -24.006  1.00 39.13      GS7
ATOM  39919  C   ILE G  27     240.672 142.043 -22.493  1.00 42.59      GS7
ATOM  39920  O   ILE G  27     241.262 141.594 -21.513  1.00 42.59      GS7
ATOM  39921  N   ASN G  28     239.363 141.920 -22.668  1.00 65.12      GS7
ATOM  39922  CA  ASN G  28     238.551 141.231 -21.680  1.00 65.12      GS7
ATOM  39923  CB  ASN G  28     237.105 141.707 -21.759  1.00 61.85      GS7
ATOM  39924  CG  ASN G  28     236.953 143.154 -21.355  1.00 61.85      GS7
ATOM  39925  OD1 ASN G  28     237.287 143.537 -20.234  1.00 61.85      GS7
ATOM  39926  ND2 ASN G  28     236.449 143.969 -22.269  1.00 61.85      GS7
ATOM  39927  C   ASN G  28     238.624 139.721 -21.885  1.00 65.12      GS7
ATOM  39928  O   ASN G  28     238.914 138.976 -20.943  1.00 65.12      GS7
ATOM  39929  N   LYS G  29     238.371 139.274 -23.116  1.00 36.66      GS7
ATOM  39930  CA  LYS G  29     238.419 137.852 -23.430  1.00 36.66      GS7
ATOM  39931  CB  LYS G  29     238.143 137.621 -24.914  1.00 81.64      GS7
ATOM  39932  CG  LYS G  29     236.707 137.870 -25.343  1.00 81.64      GS7
ATOM  39933  CD  LYS G  29     235.762 136.775 -24.866  1.00 81.64      GS7
ATOM  39934  CE  LYS G  29     234.379 136.938 -25.518  1.00 81.64      GS7
ATOM  39935  NZ  LYS G  29     233.338 135.963 -25.047  1.00 81.64      GS7
ATOM  39936  C   LYS G  29     239.790 137.303 -23.055  1.00 36.66      GS7
ATOM  39937  O   LYS G  29     239.953 136.104 -22.856  1.00 36.66      GS7
ATOM  39938  N   ILE G  30     240.779 138.183 -22.959  1.00 19.71      GS7
ATOM  39939  CA  ILE G  30     242.114 137.756 -22.562  1.00 19.71      GS7
ATOM  39940  CB  ILE G  30     243.180 138.793 -22.952  1.00 34.73      GS7
ATOM  39941  CG2 ILE G  30     244.531 138.395 -22.348  1.00 34.73      GS7
ATOM  39942  CG1 ILE G  30     243.226 138.930 -24.480  1.00 34.73      GS7
ATOM  39943  CD1 ILE G  30     244.181 139.980 -24.988  1.00 34.73      GS7
ATOM  39944  C   ILE G  30     242.139 137.590 -21.041  1.00 19.71      GS7
ATOM  39945  O   ILE G  30     242.743 136.652 -20.509  1.00 19.71      GS7
ATOM  39946  N   MET G  31     241.468 138.509 -20.351  1.00 50.30      GS7
ATOM  39947  CA  MET G  31     241.403 138.483 -18.898  1.00 50.30      GS7
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ATOM  39948  CB  MET G  31     240.620 139.683 -18.378  1.00 69.44       GS7
ATOM  39949  CG  MET G  31     240.215 139.549 -16.921  1.00 69.44       GS7
ATOM  39950  SD  MET G  31     239.357 140.985 -16.276  1.00 69.44       GS7
ATOM  39951  CE  MET G  31     237.900 141.006 -17.318  1.00 69.44       GS7
ATOM  39952  C   MET G  31     240.750 137.220 -18.382  1.00 50.30       GS7
ATOM  39953  O   MET G  31     240.037 136.535 -19.110  1.00 50.30       GS7
ATOM  39954  N   ARG G  32     241.007 136.921 -17.115  1.00 47.24       GS7
ATOM  39955  CA  ARG G  32     240.437 135.760 -16.452  1.00 47.24       GS7
ATOM  39956  CB  ARG G  32     241.134 134.468 -16.896  1.00 62.92       GS7
ATOM  39957  CG  ARG G  32     242.635 134.456 -16.724  1.00 62.92       GS7
ATOM  39958  CD  ARG G  32     243.266 133.190 -17.324  1.00 62.92       GS7
ATOM  39959  NE  ARG G  32     242.932 133.003 -18.740  1.00 62.92       GS7
ATOM  39960  CZ  ARG G  32     243.510 132.110 -19.539  1.00 62.92       GS7
ATOM  39961  NH1 ARG G  32     244.464 131.314 -19.073  1.00 62.92       GS7
ATOM  39962  NH2 ARG G  32     243.122 132.006 -20.804  1.00 62.92       GS7
ATOM  39963  C   ARG G  32     240.600 135.963 -14.963  1.00 47.24       GS7
ATOM  39964  O   ARG G  32     241.648 136.406 -14.514  1.00 47.24       GS7
ATOM  39965  N   ASP G  33     239.558 135.639 -14.206  1.00 50.66       GS7
ATOM  39966  CA  ASP G  33     239.548 135.806 -12.756  1.00 50.66       GS7
ATOM  39967  CB  ASP G  33     240.766 135.161 -12.095  1.00 65.34       GS7
ATOM  39968  CG  ASP G  33     240.787 133.657 -12.246  1.00 65.34       GS7
ATOM  39969  OD1 ASP G  33     239.737 133.012 -12.047  1.00 65.34       GS7
ATOM  39970  OD2 ASP G  33     241.865 133.114 -12.552  1.00 65.34       GS7
ATOM  39971  C   ASP G  33     239.530 137.290 -12.452  1.00 50.66       GS7
ATOM  39972  O   ASP G  33     239.950 137.724 -11.382  1.00 50.66       GS7
ATOM  39973  N   GLY G  34     239.054 138.065 -13.421  1.00 30.65       GS7
ATOM  39974  CA  GLY G  34     238.950 139.502 -13.252  1.00 30.65       GS7
ATOM  39975  C   GLY G  34     240.229 140.272 -13.026  1.00 30.65       GS7
ATOM  39976  O   GLY G  34     240.180 141.389 -12.532  1.00 30.65       GS7
ATOM  39977  N   LYS G  35     241.370 139.688 -13.367  1.00 67.71       GS7
ATOM  39978  CA  LYS G  35     242.640 140.382 -13.205  1.00 67.71       GS7
ATOM  39979  CB  LYS G  35     243.782 139.374 -13.086  1.00 37.74       GS7
ATOM  39980  CG  LYS G  35     243.535 138.317 -12.020  1.00 37.74       GS7
ATOM  39981  CD  LYS G  35     244.691 137.337 -11.882  1.00 37.74       GS7
ATOM  39982  CE  LYS G  35     245.844 137.964 -11.115  1.00 37.74       GS7
ATOM  39983  NZ  LYS G  35     247.141 137.227 -11.264  1.00 37.74       GS7
ATOM  39984  C   LYS G  35     242.804 141.245 -14.453  1.00 67.71       GS7
ATOM  39985  O   LYS G  35     243.698 141.027 -15.269  1.00 67.71       GS7
ATOM  39986  N   LYS G  36     241.910 142.223 -14.587  1.00 52.04       GS7
ATOM  39987  CA  LYS G  36     241.879 143.141 -15.722  1.00 52.04       GS7
ATOM  39988  CB  LYS G  36     240.808 144.217 -15.485  1.00 98.16       GS7
ATOM  39989  CG  LYS G  36     240.719 145.309 -16.552  1.00 98.16       GS7
ATOM  39990  CD  LYS G  36     239.477 146.182 -16.343  1.00 98.16       GS7
ATOM  39991  CE  LYS G  36     239.708 147.661 -16.700  1.00 98.16       GS7
ATOM  39992  NZ  LYS G  36     240.004 147.947 -18.139  1.00 98.16       GS7
ATOM  39993  C   LYS G  36     243.198 143.803 -16.088  1.00 52.04       GS7
ATOM  39994  O   LYS G  36     243.343 144.260 -17.211  1.00 52.04       GS7
ATOM  39995  N   ASN G  37     244.160 143.865 -15.167  1.00 52.22       GS7
ATOM  39996  CA  ASN G  37     245.444 144.498 -15.484  1.00 52.22       GS7
ATOM  39997  CB  ASN G  37     246.171 144.956 -14.219  1.00 69.77       GS7
ATOM  39998  CG  ASN G  37     246.678 146.394 -14.321  1.00 69.77       GS7
ATOM  39999  OD1 ASN G  37     247.552 146.806 -13.563  1.00 69.77       GS7
ATOM  40000  ND2 ASN G  37     246.118 147.162 -15.248  1.00 69.77       GS7
ATOM  40001  C   ASN G  37     246.305 143.498 -16.221  1.00 52.22       GS7
ATOM  40002  O   ASN G  37     246.745 143.754 -17.350  1.00 52.22       GS7
ATOM  40003  N   LEU G  38     246.542 142.355 -15.581  1.00 30.48       GS7
ATOM  40004  CA  LEU G  38     247.337 141.295 -16.196  1.00 30.48       GS7
ATOM  40005  CB  LEU G  38     247.187 139.987 -15.416  1.00 44.89       GS7
ATOM  40006  CG  LEU G  38     247.848 138.738 -16.017  1.00 44.89       GS7
ATOM  40007  CD1 LEU G  38     249.321 139.019 -16.291  1.00 44.89       GS7
ATOM  40008  CD2 LEU G  38     247.700 137.546 -15.063  1.00 44.89       GS7
ATOM  40009  C   LEU G  38     246.895 141.074 -17.642  1.00 30.48       GS7
ATOM  40010  O   LEU G  38     247.627 140.508 -18.441  1.00 30.48       GS7
ATOM  40011  N   ALA G  39     245.689 141.519 -17.969  1.00 53.32       GS7
ATOM  40012  CA  ALA G  39     245.176 141.367 -19.315  1.00 53.32       GS7
ATOM  40013  CB  ALA G  39     243.668 141.269 -19.292  1.00 90.73       GS7
ATOM  40014  C   ALA G  39     245.607 142.568 -20.119  1.00 53.32       GS7
ATOM  40015  O   ALA G  39     246.090 142.429 -21.239  1.00 53.32       GS7
ATOM  40016  N   ALA G  40     245.433 143.750 -19.534  1.00 71.21       GS7
ATOM  40017  CA  ALA G  40     245.797 145.007 -20.180  1.00 71.21       GS7
ATOM  40018  CB  ALA G  40     245.619 146.163 -19.213  1.00 96.71       GS7
ATOM  40019  C   ALA G  40     247.240 144.931 -20.630  1.00 71.21       GS7
ATOM  40020  O   ALA G  40     247.566 145.199 -21.793  1.00 71.21       GS7
ATOM  40021  N   ARG G  41     248.110 144.570 -19.697  1.00 73.46       GS7
ATOM  40022  CA  ARG G  41     249.507 144.444 -20.035  1.00 73.46       GS7
ATOM  40023  CB  ARG G  41     250.287 143.804 -18.893  1.00162.74       GS7
ATOM  40024  CG  ARG G  41     250.446 144.668 -17.674  1.00162.74       GS7
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ATOM  40025  CD  ARG G  41     251.250 143.925 -16.635  1.00162.74       GS7
ATOM  40026  NE  ARG G  41     251.459 144.721 -15.435  1.00162.74       GS7
ATOM  40027  CZ  ARG G  41     252.026 144.257 -14.327  1.00162.74       GS7
ATOM  40028  NH1 ARG G  41     252.440 142.998 -14.270  1.00162.74       GS7
ATOM  40029  NH2 ARG G  41     252.175 145.051 -13.277  1.00162.74       GS7
ATOM  40030  C   ARG G  41     249.573 143.533 -21.247  1.00 73.46       GS7
ATOM  40031  O   ARG G  41     249.764 143.986 -22.377  1.00 73.46       GS7
ATOM  40032  N   ILE G  42     249.377 142.244 -20.995  1.00 58.67       GS7
ATOM  40033  CA  ILE G  42     249.445 141.246 -22.040  1.00 58.67       GS7
ATOM  40034  CB  ILE G  42     248.605 139.999 -21.701  1.00 45.28       GS7
ATOM  40035  CG2 ILE G  42     248.538 139.069 -22.924  1.00 45.28       GS7
ATOM  40036  CG1 ILE G  42     249.232 139.265 -20.505  1.00 45.28       GS7
ATOM  40037  CD1 ILE G  42     248.558 137.938 -20.143  1.00 45.28       GS7
ATOM  40038  C   ILE G  42     249.050 141.747 -23.411  1.00 58.67       GS7
ATOM  40039  O   ILE G  42     249.822 141.607 -24.353  1.00 58.67       GS7
ATOM  40040  N   PHE G  43     247.872 142.340 -23.545  1.00 53.27       GS7
ATOM  40041  CA  PHE G  43     247.485 142.805 -24.870  1.00 53.27       GS7
ATOM  40042  CB  PHE G  43     246.109 143.427 -24.899  1.00 35.27       GS7
ATOM  40043  CG  PHE G  43     245.775 144.009 -26.232  1.00 35.27       GS7
ATOM  40044  CD1 PHE G  43     245.617 143.182 -27.338  1.00 35.27       GS7
ATOM  40045  CD2 PHE G  43     245.656 145.375 -26.400  1.00 35.27       GS7
ATOM  40046  CE1 PHE G  43     245.340 143.709 -28.597  1.00 35.27       GS7
ATOM  40047  CE2 PHE G  43     245.379 145.912 -27.652  1.00 35.27       GS7
ATOM  40048  CZ  PHE G  43     245.220 145.077 -28.754  1.00 35.27       GS7
ATOM  40049  C   PHE G  43     248.424 143.845 -25.422  1.00 53.27       GS7
ATOM  40050  O   PHE G  43     248.748 143.839 -26.613  1.00 53.27       GS7
ATOM  40051  N   TYR G  44     248.826 144.762 -24.553  1.00 65.88       GS7
ATOM  40052  CA  TYR G  44     249.724 145.833 -24.934  1.00 65.88       GS7
ATOM  40053  CB  TYR G  44     249.701 146.898 -23.857  1.00 53.74       GS7
ATOM  40054  CG  TYR G  44     248.407 147.661 -23.860  1.00 53.74       GS7
ATOM  40055  CD1 TYR G  44     247.742 147.935 -22.671  1.00 53.74       GS7
ATOM  40056  CE1 TYR G  44     246.554 148.653 -22.664  1.00 53.74       GS7
ATOM  40057  CD2 TYR G  44     247.850 148.126 -25.057  1.00 53.74       GS7
ATOM  40058  CE2 TYR G  44     246.662 148.847 -25.062  1.00 53.74       GS7
ATOM  40059  CZ  TYR G  44     246.026 149.102 -23.858  1.00 53.74       GS7
ATOM  40060  OH  TYR G  44     244.862 149.809 -23.822  1.00 53.74       GS7
ATOM  40061  C   TYR G  44     251.140 145.358 -25.199  1.00 65.88       GS7
ATOM  40062  O   TYR G  44     251.717 145.695 -26.231  1.00 65.88       GS7
ATOM  40063  N   ASP G  45     251.698 144.577 -24.278  1.00 65.03       GS7
ATOM  40064  CA  ASP G  45     253.044 144.050 -24.469  1.00 65.03       GS7
ATOM  40065  CB  ASP G  45     253.414 143.098 -23.337  1.00130.14       GS7
ATOM  40066  CG  ASP G  45     253.454 143.787 -21.997  1.00130.14       GS7
ATOM  40067  OD1 ASP G  45     254.263 144.724 -21.828  1.00130.14       GS7
ATOM  40068  OD2 ASP G  45     252.671 143.390 -21.113  1.00130.14       GS7
ATOM  40069  C   ASP G  45     253.045 143.302 -25.797  1.00 65.03       GS7
ATOM  40070  O   ASP G  45     254.065 143.212 -26.484  1.00 65.03       GS7
ATOM  40071  N   ALA G  46     251.881 142.771 -26.149  1.00 63.62       GS7
ATOM  40072  CA  ALA G  46     251.712 142.048 -27.394  1.00 63.62       GS7
ATOM  40073  CB  ALA G  46     250.417 141.255 -27.368  1.00144.28       GS7
ATOM  40074  C   ALA G  46     251.680 143.062 -28.523  1.00 63.62       GS7
ATOM  40075  O   ALA G  46     252.287 142.852 -29.565  1.00 63.62       GS7
ATOM  40076  N   CYS G  47     250.968 144.163 -28.313  1.00 47.18       GS7
ATOM  40077  CA  CYS G  47     250.878 145.199 -29.334  1.00 47.18       GS7
ATOM  40078  CB  CYS G  47     249.958 146.324 -28.887  1.00 61.35       GS7
ATOM  40079  SG  CYS G  47     248.237 145.885 -28.942  1.00 61.35       GS7
ATOM  40080  C   CYS G  47     252.244 145.771 -29.608  1.00 47.18       GS7
ATOM  40081  O   CYS G  47     252.550 146.156 -30.740  1.00 47.18       GS7
ATOM  40082  N   LYS G  48     253.061 145.825 -28.559  1.00 74.87       GS7
ATOM  40083  CA  LYS G  48     254.409 146.358 -28.660  1.00 74.87       GS7
ATOM  40084  CB  LYS G  48     254.879 146.885 -27.301  1.00191.90       GS7
ATOM  40085  CG  LYS G  48     254.113 148.115 -26.804  1.00191.90       GS7
ATOM  40086  CD  LYS G  48     254.321 149.324 -27.712  1.00191.90       GS7
ATOM  40087  CE  LYS G  48     253.605 150.562 -27.180  1.00191.90       GS7
ATOM  40088  NZ  LYS G  48     252.126 150.394 -27.147  1.00191.90       GS7
ATOM  40089  C   LYS G  48     255.371 145.306 -29.179  1.00 74.87       GS7
ATOM  40090  O   LYS G  48     256.580 145.444 -29.040  1.00 74.87       GS7
ATOM  40091  N   ILE G  49     254.815 144.250 -29.765  1.00 55.38       GS7
ATOM  40092  CA  ILE G  49     255.596 143.165 -30.361  1.00 55.38       GS7
ATOM  40093  CB  ILE G  49     255.255 141.792 -29.753  1.00 46.98       GS7
ATOM  40094  CG2 ILE G  49     255.753 140.687 -30.652  1.00 46.98       GS7
ATOM  40095  CG1 ILE G  49     255.884 141.670 -28.368  1.00 46.98       GS7
ATOM  40096  CD1 ILE G  49     255.613 140.346 -27.687  1.00 46.98       GS7
ATOM  40097  C   ILE G  49     255.242 143.136 -31.836  1.00 55.38       GS7
ATOM  40098  O   ILE G  49     256.068 142.813 -32.684  1.00 55.38       GS7
ATOM  40099  N   ILE G  50     253.994 143.473 -32.132  1.00 62.44       GS7
ATOM  40100  CA  ILE G  50     253.534 143.513 -33.503  1.00 62.44       GS7
ATOM  40101  CB  ILE G  50     252.050 143.883 -33.576  1.00110.16       GS7
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ATOM  40102  CG2 ILE G  50     251.551 143.750 -35.003  1.00110.16      GS7
ATOM  40103  CG1 ILE G  50     251.246 142.967 -32.657  1.00110.16      GS7
ATOM  40104  CD1 ILE G  50     249.771 143.281 -32.636  1.00110.16      GS7
ATOM  40105  C   ILE G  50     254.359 144.607 -34.162  1.00 62.44      GS7
ATOM  40106  O   ILE G  50     254.322 144.788 -35.380  1.00 62.44      GS7
ATOM  40107  N   GLN G  51     255.100 145.342 -33.336  1.00 91.48      GS7
ATOM  40108  CA  GLN G  51     255.963 146.418 -33.810  1.00 91.48      GS7
ATOM  40109  CB  GLN G  51     256.086 147.515 -32.752  1.00131.40      GS7
ATOM  40110  CG  GLN G  51     254.918 148.470 -32.736  1.00131.40      GS7
ATOM  40111  CD  GLN G  51     254.622 149.010 -34.118  1.00131.40      GS7
ATOM  40112  OE1 GLN G  51     255.503 149.550 -34.787  1.00131.40      GS7
ATOM  40113  NE2 GLN G  51     253.379 148.866 -34.555  1.00131.40      GS7
ATOM  40114  C   GLN G  51     257.349 145.892 -34.146  1.00 91.48      GS7
ATOM  40115  O   GLN G  51     257.709 145.763 -35.316  1.00 91.48      GS7
ATOM  40116  N   GLU G  52     258.118 145.584 -33.108  1.00 88.73      GS7
ATOM  40117  CA  GLU G  52     259.470 145.074 -33.276  1.00 88.73      GS7
ATOM  40118  CB  GLU G  52     260.071 144.697 -31.919  1.00201.26      GS7
ATOM  40119  CG  GLU G  52     260.355 145.880 -31.007  1.00201.26      GS7
ATOM  40120  CD  GLU G  52     261.101 145.477 -29.747  1.00201.26      GS7
ATOM  40121  OE1 GLU G  52     262.202 144.896 -29.866  1.00201.26      GS7
ATOM  40122  OE2 GLU G  52     260.588 145.742 -28.639  1.00201.26      GS7
ATOM  40123  C   GLU G  52     259.545 143.872 -34.204  1.00 88.73      GS7
ATOM  40124  O   GLU G  52     260.576 143.204 -34.273  1.00 88.73      GS7
ATOM  40125  N   LYS G  53     258.458 143.586 -34.910  1.00 76.28      GS7
ATOM  40126  CA  LYS G  53     258.449 142.462 -35.828  1.00 76.28      GS7
ATOM  40127  CB  LYS G  53     257.966 141.203 -35.106  1.00105.71      GS7
ATOM  40128  CG  LYS G  53     258.865 140.817 -33.934  1.00105.71      GS7
ATOM  40129  CD  LYS G  53     258.604 139.404 -33.450  1.00105.71      GS7
ATOM  40130  CE  LYS G  53     259.591 139.002 -32.357  1.00105.71      GS7
ATOM  40131  NZ  LYS G  53     259.455 137.564 -31.959  1.00105.71      GS7
ATOM  40132  C   LYS G  53     257.617 142.739 -37.072  1.00 76.28      GS7
ATOM  40133  O   LYS G  53     257.528 141.899 -37.967  1.00 76.28      GS7
ATOM  40134  N   THR G  54     257.026 143.929 -37.122  1.00109.77      GS7
ATOM  40135  CA  THR G  54     256.213 144.370 -38.256  1.00109.77      GS7
ATOM  40136  CB  THR G  54     254.735 143.909 -38.129  1.00108.33      GS7
ATOM  40137  OG1 THR G  54     254.638 142.509 -38.425  1.00108.33      GS7
ATOM  40138  CG2 THR G  54     253.842 144.688 -39.088  1.00108.33      GS7
ATOM  40139  C   THR G  54     256.256 145.892 -38.288  1.00109.77      GS7
ATOM  40140  O   THR G  54     256.297 146.536 -37.242  1.00109.77      GS7
ATOM  40141  N   GLY G  55     256.249 146.468 -39.484  1.00117.15      GS7
ATOM  40142  CA  GLY G  55     256.303 147.914 -39.592  1.00117.15      GS7
ATOM  40143  C   GLY G  55     254.969 148.617 -39.416  1.00117.15      GS7
ATOM  40144  O   GLY G  55     254.922 149.841 -39.258  1.00117.15      GS7
ATOM  40145  N   GLN G  56     253.884 147.849 -39.431  1.00139.98      GS7
ATOM  40146  CA  GLN G  56     252.539 148.405 -39.296  1.00139.98      GS7
ATOM  40147  CB  GLN G  56     251.513 147.388 -39.795  1.00136.04      GS7
ATOM  40148  CG  GLN G  56     251.874 146.736 -41.115  1.00136.04      GS7
ATOM  40149  CD  GLN G  56     250.860 145.696 -41.534  1.00136.04      GS7
ATOM  40150  OE1 GLN G  56     249.708 146.018 -41.826  1.00136.04      GS7
ATOM  40151  NE2 GLN G  56     251.279 144.437 -41.561  1.00136.04      GS7
ATOM  40152  C   GLN G  56     252.201 148.791 -37.859  1.00139.98      GS7
ATOM  40153  O   GLN G  56     252.778 148.247 -36.916  1.00139.98      GS7
ATOM  40154  N   GLU G  57     251.266 149.731 -37.696  1.00108.07      GS7
ATOM  40155  CA  GLU G  57     250.850 150.160 -36.361  1.00108.07      GS7
ATOM  40156  CB  GLU G  57     249.802 151.279 -36.418  1.00125.58      GS7
ATOM  40157  CG  GLU G  57     250.077 152.392 -37.416  1.00125.58      GS7
ATOM  40158  CD  GLU G  57     249.424 152.141 -38.769  1.00125.58      GS7
ATOM  40159  OE1 GLU G  57     249.795 151.153 -39.440  1.00125.58      GS7
ATOM  40160  OE2 GLU G  57     248.535 152.932 -39.158  1.00125.58      GS7
ATOM  40161  C   GLU G  57     250.218 148.930 -35.745  1.00108.07      GS7
ATOM  40162  O   GLU G  57     249.570 148.149 -36.438  1.00108.07      GS7
ATOM  40163  N   PRO G  58     250.380 148.740 -34.434  1.00 68.41      GS7
ATOM  40164  CD  PRO G  58     250.749 149.689 -33.371  1.00114.97      GS7
ATOM  40165  CA  PRO G  58     249.762 147.538 -33.877  1.00 68.41      GS7
ATOM  40166  CB  PRO G  58     250.020 147.685 -32.381  1.00114.97      GS7
ATOM  40167  CG  PRO G  58     249.959 149.167 -32.193  1.00114.97      GS7
ATOM  40168  C   PRO G  58     248.276 147.460 -34.219  1.00 68.41      GS7
ATOM  40169  O   PRO G  58     247.838 146.550 -34.925  1.00 68.41      GS7
ATOM  40170  N   LEU G  59     247.520 148.442 -33.738  1.00 74.37      GS7
ATOM  40171  CA  LEU G  59     246.081 148.492 -33.948  1.00 74.37      GS7
ATOM  40172  CB  LEU G  59     245.569 149.922 -33.810  1.00 84.76      GS7
ATOM  40173  CG  LEU G  59     244.049 150.004 -33.958  1.00 84.76      GS7
ATOM  40174  CD1 LEU G  59     243.401 149.238 -32.824  1.00 84.76      GS7
ATOM  40175  CD2 LEU G  59     243.600 151.450 -33.949  1.00 84.76      GS7
ATOM  40176  C   LEU G  59     245.604 147.931 -35.276  1.00 74.37      GS7
ATOM  40177  O   LEU G  59     244.943 146.899 -35.308  1.00 74.37      GS7
ATOM  40178  N   LYS G  60     245.932 148.620 -36.365  1.00 85.15      GS7
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ATOM  40179  CA  LYS G  60     245.516 148.201 -37.697  1.00 85.15      GS7
ATOM  40180  CB  LYS G  60     246.278 148.984 -38.766  1.00145.66      GS7
ATOM  40181  CG  LYS G  60     245.746 148.764 -40.169  1.00145.66      GS7
ATOM  40182  CD  LYS G  60     246.363 149.736 -41.161  1.00145.66      GS7
ATOM  40183  CE  LYS G  60     245.747 149.575 -42.546  1.00145.66      GS7
ATOM  40184  NZ  LYS G  60     246.219 150.617 -43.505  1.00145.66      GS7
ATOM  40185  C   LYS G  60     245.714 146.707 -37.906  1.00 85.15      GS7
ATOM  40186  O   LYS G  60     244.873 146.047 -38.515  1.00 85.15      GS7
ATOM  40187  N   VAL G  61     246.823 146.172 -37.407  1.00 59.54      GS7
ATOM  40188  CA  VAL G  61     247.075 144.743 -37.537  1.00 59.54      GS7
ATOM  40189  CB  VAL G  61     248.405 144.334 -36.871  1.00 71.11      GS7
ATOM  40190  CG1 VAL G  61     248.586 142.822 -36.946  1.00 71.11      GS7
ATOM  40191  CG2 VAL G  61     249.556 145.030 -37.548  1.00 71.11      GS7
ATOM  40192  C   VAL G  61     245.933 144.026 -36.820  1.00 59.54      GS7
ATOM  40193  O   VAL G  61     245.236 143.201 -37.410  1.00 59.54      GS7
ATOM  40194  N   PHE G  62     245.758 144.353 -35.540  1.00 48.66      GS7
ATOM  40195  CA  PHE G  62     244.701 143.779 -34.710  1.00 48.66      GS7
ATOM  40196  CB  PHE G  62     244.585 144.579 -33.399  1.00 51.89      GS7
ATOM  40197  CG  PHE G  62     243.382 144.224 -32.573  1.00 51.89      GS7
ATOM  40198  CD1 PHE G  62     243.348 143.045 -31.836  1.00 51.89      GS7
ATOM  40199  CD2 PHE G  62     242.261 145.053 -32.566  1.00 51.89      GS7
ATOM  40200  CE1 PHE G  62     242.212 142.697 -31.107  1.00 51.89      GS7
ATOM  40201  CE2 PHE G  62     241.122 144.713 -31.842  1.00 51.89      GS7
ATOM  40202  CZ  PHE G  62     241.096 143.536 -31.113  1.00 51.89      GS7
ATOM  40203  C   PHE G  62     243.386 143.843 -35.489  1.00 48.66      GS7
ATOM  40204  O   PHE G  62     242.852 142.823 -35.922  1.00 48.66      GS7
ATOM  40205  N   LYS G  63     242.881 145.056 -35.679  1.00 75.55      GS7
ATOM  40206  CA  LYS G  63     241.642 145.249 -36.407  1.00 75.55      GS7
ATOM  40207  CB  LYS G  63     241.380 146.739 -36.632  1.00105.31      GS7
ATOM  40208  CG  LYS G  63     241.100 147.504 -35.350  1.00105.31      GS7
ATOM  40209  CD  LYS G  63     240.505 148.874 -35.630  1.00105.31      GS7
ATOM  40210  CE  LYS G  63     240.115 149.569 -34.337  1.00105.31      GS7
ATOM  40211  NZ  LYS G  63     239.464 150.877 -34.597  1.00105.31      GS7
ATOM  40212  C   LYS G  63     241.667 144.520 -37.739  1.00 75.55      GS7
ATOM  40213  O   LYS G  63     240.623 144.283 -38.344  1.00 75.55      GS7
ATOM  40214  N   GLN G  64     242.860 144.169 -38.202  1.00 72.57      GS7
ATOM  40215  CA  GLN G  64     242.987 143.446 -39.457  1.00 72.57      GS7
ATOM  40216  CB  GLN G  64     244.421 143.542 -39.986  1.00161.59      GS7
ATOM  40217  CG  GLN G  64     244.668 142.800 -41.289  1.00161.59      GS7
ATOM  40218  CD  GLN G  64     243.961 143.436 -42.468  1.00161.59      GS7
ATOM  40219  OE1 GLN G  64     244.244 144.578 -42.833  1.00161.59      GS7
ATOM  40220  NE2 GLN G  64     243.035 142.698 -43.072  1.00161.59      GS7
ATOM  40221  C   GLN G  64     242.625 141.990 -39.179  1.00 72.57      GS7
ATOM  40222  O   GLN G  64     241.770 141.410 -39.849  1.00 72.57      GS7
ATOM  40223  N   ALA G  65     243.272 141.413 -38.172  1.00 65.58      GS7
ATOM  40224  CA  ALA G  65     243.033 140.025 -37.794  1.00 65.58      GS7
ATOM  40225  CB  ALA G  65     243.863 139.673 -36.562  1.00 39.60      GS7
ATOM  40226  C   ALA G  65     241.553 139.785 -37.517  1.00 65.58      GS7
ATOM  40227  O   ALA G  65     240.938 138.885 -38.085  1.00 65.58      GS7
ATOM  40228  N   VAL G  66     240.987 140.602 -36.638  1.00 53.63      GS7
ATOM  40229  CA  VAL G  66     239.583 140.488 -36.283  1.00 53.63      GS7
ATOM  40230  CB  VAL G  66     239.115 141.742 -35.520  1.00 47.84      GS7
ATOM  40231  CG1 VAL G  66     237.601 141.730 -35.366  1.00 47.84      GS7
ATOM  40232  CG2 VAL G  66     239.798 141.792 -34.153  1.00 47.84      GS7
ATOM  40233  C   VAL G  66     238.701 140.289 -37.510  1.00 53.63      GS7
ATOM  40234  O   VAL G  66     237.853 139.401 -37.531  1.00 53.63      GS7
ATOM  40235  N   GLU G  67     238.906 141.113 -38.530  1.00 63.59      GS7
ATOM  40236  CA  GLU G  67     238.114 141.018 -39.750  1.00 63.59      GS7
ATOM  40237  CB  GLU G  67     238.466 142.166 -40.697  1.00161.38      GS7
ATOM  40238  CG  GLU G  67     237.770 142.084 -42.051  1.00161.38      GS7
ATOM  40239  CD  GLU G  67     236.269 142.284 -41.959  1.00161.38      GS7
ATOM  40240  OE1 GLU G  67     235.574 142.035 -42.968  1.00161.38      GS7
ATOM  40241  OE2 GLU G  67     235.786 142.700 -40.883  1.00161.38      GS7
ATOM  40242  C   GLU G  67     238.288 139.689 -40.488  1.00 63.59      GS7
ATOM  40243  O   GLU G  67     237.444 139.300 -41.300  1.00 63.59      GS7
ATOM  40244  N   ASN G  68     239.377 138.987 -40.212  1.00 75.18      GS7
ATOM  40245  CA  ASN G  68     239.616 137.727 -40.894  1.00 75.18      GS7
ATOM  40246  CB  ASN G  68     241.095 137.598 -41.242  1.00 65.58      GS7
ATOM  40247  CG  ASN G  68     241.526 138.591 -42.282  1.00 65.58      GS7
ATOM  40248  OD1 ASN G  68     240.876 138.737 -43.317  1.00 65.58      GS7
ATOM  40249  ND2 ASN G  68     242.629 139.281 -42.022  1.00 65.58      GS7
ATOM  40250  C   ASN G  68     239.168 136.505 -40.114  1.00 75.18      GS7
ATOM  40251  O   ASN G  68     239.128 135.396 -40.649  1.00 75.18      GS7
ATOM  40252  N   VAL G  69     238.827 136.698 -38.851  1.00 49.94      GS7
ATOM  40253  CA  VAL G  69     238.402 135.579 -38.034  1.00 49.94      GS7
ATOM  40254  CB  VAL G  69     238.962 135.697 -36.615  1.00 56.84      GS7
ATOM  40255  CG1 VAL G  69     238.957 134.343 -35.947  1.00 56.84      GS7
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ATOM  40256  CG2 VAL G  69     240.363 136.279 -36.657  1.00 56.84      GS7
ATOM  40257  C   VAL G  69     236.889 135.537 -37.958  1.00 49.94      GS7
ATOM  40258  O   VAL G  69     236.322 134.607 -37.401  1.00 49.94      GS7
ATOM  40259  N   LYS G  70     236.234 136.541 -38.531  1.00 54.76      GS7
ATOM  40260  CA  LYS G  70     234.780 136.610 -38.492  1.00 54.76      GS7
ATOM  40261  CB  LYS G  70     234.315 138.064 -38.600  1.00 54.95      GS7
ATOM  40262  CG  LYS G  70     234.728 138.899 -37.397  1.00 54.95      GS7
ATOM  40263  CD  LYS G  70     234.145 140.297 -37.421  1.00 54.95      GS7
ATOM  40264  CE  LYS G  70     234.719 141.127 -38.558  1.00 54.95      GS7
ATOM  40265  NZ  LYS G  70     234.216 142.534 -38.559  1.00 54.95      GS7
ATOM  40266  C   LYS G  70     234.092 135.767 -39.545  1.00 54.76      GS7
ATOM  40267  O   LYS G  70     234.230 135.998 -40.738  1.00 54.76      GS7
ATOM  40268  N   PRO G  71     233.343 134.756 -39.104  1.00 48.73      GS7
ATOM  40269  CD  PRO G  71     233.245 134.323 -37.700  1.00 13.79      GS7
ATOM  40270  CA  PRO G  71     232.606 133.845 -39.978  1.00 48.73      GS7
ATOM  40271  CB  PRO G  71     232.267 132.693 -39.045  1.00 13.79      GS7
ATOM  40272  CG  PRO G  71     232.078 133.379 -37.736  1.00 13.79      GS7
ATOM  40273  C   PRO G  71     231.355 134.508 -40.539  1.00 48.73      GS7
ATOM  40274  O   PRO G  71     230.614 135.155 -39.803  1.00 48.73      GS7
ATOM  40275  N   ARG G  72     231.123 134.348 -41.838  1.00 54.02      GS7
ATOM  40276  CA  ARG G  72     229.948 134.927 -42.486  1.00 54.02      GS7
ATOM  40277  CB  ARG G  72     230.215 135.101 -43.979  1.00134.94      GS7
ATOM  40278  CG  ARG G  72     231.163 136.242 -44.286  1.00134.94      GS7
ATOM  40279  CD  ARG G  72     231.645 136.179 -45.720  1.00134.94      GS7
ATOM  40280  NE  ARG G  72     232.646 135.133 -45.917  1.00134.94      GS7
ATOM  40281  CZ  ARG G  72     233.878 135.173 -45.416  1.00134.94      GS7
ATOM  40282  NH1 ARG G  72     234.270 136.208 -44.682  1.00134.94      GS7
ATOM  40283  NH2 ARG G  72     234.723 134.177 -45.650  1.00134.94      GS7
ATOM  40284  C   ARG G  72     228.691 134.077 -42.263  1.00 54.02      GS7
ATOM  40285  O   ARG G  72     227.610 134.610 -42.031  1.00 54.02      GS7
ATOM  40286  N   MET G  73     228.843 132.759 -42.337  1.00 38.52      GS7
ATOM  40287  CA  MET G  73     227.743 131.824 -42.124  1.00 38.52      GS7
ATOM  40288  CB  MET G  73     227.502 130.984 -43.371  1.00 74.62      GS7
ATOM  40289  CG  MET G  73     227.093 131.775 -44.589  1.00 74.62      GS7
ATOM  40290  SD  MET G  73     225.433 132.419 -44.453  1.00 74.62      GS7
ATOM  40291  CE  MET G  73     224.483 131.073 -45.154  1.00 74.62      GS7
ATOM  40292  C   MET G  73     228.169 130.902 -40.995  1.00 38.52      GS7
ATOM  40293  O   MET G  73     229.317 130.945 -40.563  1.00 38.52      GS7
ATOM  40294  N   GLU G  74     227.248 130.076 -40.513  1.00 46.92      GS7
ATOM  40295  CA  GLU G  74     227.539 129.123 -39.447  1.00 46.92      GS7
ATOM  40296  CB  GLU G  74     227.718 129.837 -38.109  1.00 83.98      GS7
ATOM  40297  CG  GLU G  74     226.418 130.290 -37.472  1.00 83.98      GS7
ATOM  40298  CD  GLU G  74     226.615 130.948 -36.114  1.00 83.98      GS7
ATOM  40299  OE1 GLU G  74     227.317 130.365 -35.255  1.00 83.98      GS7
ATOM  40300  OE2 GLU G  74     226.055 132.046 -35.903  1.00 83.98      GS7
ATOM  40301  C   GLU G  74     226.335 128.202 -39.377  1.00 46.92      GS7
ATOM  40302  O   GLU G  74     225.311 128.466 -40.010  1.00 46.92      GS7
ATOM  40303  N   VAL G  75     226.442 127.117 -38.627  1.00 68.32      GS7
ATOM  40304  CA  VAL G  75     225.313 126.208 -38.511  1.00 68.32      GS7
ATOM  40305  CB  VAL G  75     225.695 124.771 -38.866  1.00 42.09      GS7
ATOM  40306  CG1 VAL G  75     226.045 124.682 -40.327  1.00 42.09      GS7
ATOM  40307  CG2 VAL G  75     226.858 124.320 -38.006  1.00 42.09      GS7
ATOM  40308  C   VAL G  75     224.777 126.210 -37.097  1.00 68.32      GS7
ATOM  40309  O   VAL G  75     225.540 126.336 -36.141  1.00 68.32      GS7
ATOM  40310  N   ARG G  76     223.459 126.085 -36.978  1.00 67.03      GS7
ATOM  40311  CA  ARG G  76     222.778 126.047 -35.689  1.00 67.03      GS7
ATOM  40312  CB  ARG G  76     222.041 127.364 -35.422  1.00100.36      GS7
ATOM  40313  CG  ARG G  76     222.858 128.603 -35.751  1.00100.36      GS7
ATOM  40314  CD  ARG G  76     222.122 129.893 -35.426  1.00100.36      GS7
ATOM  40315  NE  ARG G  76     222.262 130.283 -34.026  1.00100.36      GS7
ATOM  40316  CZ  ARG G  76     221.709 131.369 -33.496  1.00100.36      GS7
ATOM  40317  NH1 ARG G  76     220.972 132.172 -34.255  1.00100.36      GS7
ATOM  40318  NH2 ARG G  76     221.899 131.659 -32.214  1.00100.36      GS7
ATOM  40319  C   ARG G  76     221.780 124.921 -35.853  1.00 67.03      GS7
ATOM  40320  O   ARG G  76     220.974 124.933 -36.785  1.00 67.03      GS7
ATOM  40321  N   SER G  77     221.840 123.937 -34.966  1.00 99.40      GS7
ATOM  40322  CA  SER G  77     220.932 122.802 -35.058  1.00 99.40      GS7
ATOM  40323  CB  SER G  77     221.148 121.858 -33.871  1.00112.38      GS7
ATOM  40324  OG  SER G  77     220.412 120.656 -34.032  1.00112.38      GS7
ATOM  40325  C   SER G  77     219.473 123.249 -35.107  1.00 99.40      GS7
ATOM  40326  O   SER G  77     219.160 124.427 -34.923  1.00 99.40      GS7
ATOM  40327  N   ARG G  78     218.584 122.300 -35.382  1.00 85.52      GS7
ATOM  40328  CA  ARG G  78     217.155 122.577 -35.432  1.00 85.52      GS7
ATOM  40329  CB  ARG G  78     216.775 123.325 -36.714  1.00142.74      GS7
ATOM  40330  CG  ARG G  78     215.278 123.600 -36.819  1.00142.74      GS7
ATOM  40331  CD  ARG G  78     214.920 124.468 -38.017  1.00142.74      GS7
ATOM  40332  NE  ARG G  78     213.473 124.642 -38.133  1.00142.74      GS7
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ATOM  40333  CZ  ARG G  78     212.879 125.476 -38.983  1.00142.74      GS7
ATOM  40334  NH1 ARG G  78     213.601 126.225 -39.803  1.00142.74      GS7
ATOM  40335  NH2 ARG G  78     211.556 125.561 -39.013  1.00142.74      GS7
ATOM  40336  C   ARG G  78     216.366 121.279 -35.340  1.00 85.52      GS7
ATOM  40337  O   ARG G  78     216.781 120.247 -35.868  1.00 85.52      GS7
ATOM  40338  N   ARG G  79     215.234 121.336 -34.648  1.00144.57      GS7
ATOM  40339  CA  ARG G  79     214.382 120.170 -34.486  1.00144.57      GS7
ATOM  40340  CB  ARG G  79     213.623 120.250 -33.160  1.00201.26      GS7
ATOM  40341  CG  ARG G  79     214.455 119.867 -31.945  1.00201.26      GS7
ATOM  40342  CD  ARG G  79     214.828 118.389 -31.989  1.00201.26      GS7
ATOM  40343  NE  ARG G  79     215.615 117.977 -30.829  1.00201.26      GS7
ATOM  40344  CZ  ARG G  79     216.025 116.731 -30.603  1.00201.26      GS7
ATOM  40345  NH1 ARG G  79     215.725 115.762 -31.458  1.00201.26      GS7
ATOM  40346  NH2 ARG G  79     216.738 116.451 -29.520  1.00201.26      GS7
ATOM  40347  C   ARG G  79     213.405 120.090 -35.645  1.00144.57      GS7
ATOM  40348  O   ARG G  79     212.217 120.365 -35.489  1.00144.57      GS7
ATOM  40349  N   VAL G  80     213.921 119.721 -36.813  1.00137.24      GS7
ATOM  40350  CA  VAL G  80     213.095 119.596 -38.007  1.00137.24      GS7
ATOM  40351  CB  VAL G  80     213.908 119.884 -39.297  1.00106.06      GS7
ATOM  40352  CG1 VAL G  80     212.979 119.909 -40.498  1.00106.06      GS7
ATOM  40353  CG2 VAL G  80     214.640 121.210 -39.176  1.00106.06      GS7
ATOM  40354  C   VAL G  80     212.533 118.178 -38.081  1.00137.24      GS7
ATOM  40355  O   VAL G  80     213.161 117.278 -38.643  1.00137.24      GS7
ATOM  40356  N   GLY G  81     211.350 117.987 -37.503  1.00150.00      GS7
ATOM  40357  CA  GLY G  81     210.723 116.678 -37.510  1.00150.00      GS7
ATOM  40358  C   GLY G  81     211.435 115.717 -36.579  1.00150.00      GS7
ATOM  40359  O   GLY G  81     211.803 114.608 -36.975  1.00150.00      GS7
ATOM  40360  N   GLY G  82     211.626 116.146 -35.335  1.00201.26      GS7
ATOM  40361  CA  GLY G  82     212.307 115.315 -34.360  1.00201.26      GS7
ATOM  40362  C   GLY G  82     213.801 115.298 -34.613  1.00201.26      GS7
ATOM  40363  O   GLY G  82     214.589 115.732 -33.773  1.00201.26      GS7
ATOM  40364  N   ALA G  83     214.187 114.798 -35.782  1.00192.43      GS7
ATOM  40365  CA  ALA G  83     215.591 114.723 -36.165  1.00192.43      GS7
ATOM  40366  CB  ALA G  83     215.719 114.030 -37.513  1.00 39.38      GS7
ATOM  40367  C   ALA G  83     216.203 116.122 -36.227  1.00192.43      GS7
ATOM  40368  O   ALA G  83     215.504 117.105 -36.478  1.00192.43      GS7
ATOM  40369  N   ASN G  84     217.509 116.206 -35.994  1.00 84.53      GS7
ATOM  40370  CA  ASN G  84     218.208 117.487 -36.020  1.00 84.53      GS7
ATOM  40371  CB  ASN G  84     219.123 117.615 -34.804  1.00121.11      GS7
ATOM  40372  CG  ASN G  84     218.352 117.605 -33.503  1.00121.11      GS7
ATOM  40373  OD1 ASN G  84     217.462 118.431 -33.292  1.00121.11      GS7
ATOM  40374  ND2 ASN G  84     218.684 116.667 -32.624  1.00121.11      GS7
ATOM  40375  C   ASN G  84     219.011 117.668 -37.294  1.00 84.53      GS7
ATOM  40376  O   ASN G  84     219.761 116.781 -37.703  1.00 84.53      GS7
ATOM  40377  N   TYR G  85     218.839 118.831 -37.911  1.00 72.44      GS7
ATOM  40378  CA  TYR G  85     219.509 119.171 -39.159  1.00 72.44      GS7
ATOM  40379  CB  TYR G  85     218.470 119.328 -40.274  1.00126.50      GS7
ATOM  40380  CG  TYR G  85     217.788 118.043 -40.697  1.00126.50      GS7
ATOM  40381  CD1 TYR G  85     216.694 118.068 -41.559  1.00126.50      GS7
ATOM  40382  CE1 TYR G  85     216.086 116.894 -41.986  1.00126.50      GS7
ATOM  40383  CD2 TYR G  85     218.259 116.802 -40.267  1.00126.50      GS7
ATOM  40384  CE2 TYR G  85     217.659 115.620 -40.687  1.00126.50      GS7
ATOM  40385  CZ  TYR G  85     216.574 115.672 -41.547  1.00126.50      GS7
ATOM  40386  OH  TYR G  85     215.987 114.502 -41.972  1.00126.50      GS7
ATOM  40387  C   TYR G  85     220.310 120.463 -39.030  1.00 72.44      GS7
ATOM  40388  O   TYR G  85     219.750 121.559 -39.099  1.00 72.44      GS7
ATOM  40389  N   GLN G  86     221.621 120.333 -38.852  1.00102.92      GS7
ATOM  40390  CA  GLN G  86     222.481 121.501 -38.712  1.00102.92      GS7
ATOM  40391  CB  GLN G  86     223.951 121.087 -38.772  1.00106.76      GS7
ATOM  40392  CG  GLN G  86     224.345 120.035 -37.742  1.00106.76      GS7
ATOM  40393  CD  GLN G  86     223.857 120.359 -36.339  1.00106.76      GS7
ATOM  40394  OE1 GLN G  86     222.671 120.234 -36.037  1.00106.76      GS7
ATOM  40395  NE2 GLN G  86     224.774 120.783 -35.476  1.00106.76      GS7
ATOM  40396  C   GLN G  86     222.177 122.499 -39.820  1.00102.92      GS7
ATOM  40397  O   GLN G  86     222.552 122.289 -40.971  1.00102.92      GS7
ATOM  40398  N   VAL G  87     221.494 123.584 -39.468  1.00 36.59      GS7
ATOM  40399  CA  VAL G  87     221.138 124.587 -40.452  1.00 36.59      GS7
ATOM  40400  CB  VAL G  87     219.736 125.141 -40.174  1.00 51.88      GS7
ATOM  40401  CG1 VAL G  87     219.420 126.311 -41.112  1.00 51.88      GS7
ATOM  40402  CG2 VAL G  87     218.729 124.038 -40.366  1.00 51.88      GS7
ATOM  40403  C   VAL G  87     222.114 125.753 -40.619  1.00 36.59      GS7
ATOM  40404  O   VAL G  87     222.634 126.312 -39.655  1.00 36.59      GS7
ATOM  40405  N   PRO G  88     222.361 126.135 -41.876  1.00 42.08      GS7
ATOM  40406  CD  PRO G  88     221.805 125.457 -43.061  1.00 31.07      GS7
ATOM  40407  CA  PRO G  88     223.250 127.216 -42.287  1.00 42.08      GS7
ATOM  40408  CB  PRO G  88     223.585 126.825 -43.709  1.00 31.07      GS7
ATOM  40409  CG  PRO G  88     222.249 126.350 -44.185  1.00 31.07      GS7
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ATOM  40410  C   PRO G  88     222.510 128.544 -42.240  1.00 42.08      GS7
ATOM  40411  O   PRO G  88     221.341 128.604 -42.610  1.00 42.08      GS7
ATOM  40412  N   MET G  89     223.193 129.601 -41.805  1.00 95.47      GS7
ATOM  40413  CA  MET G  89     222.580 130.923 -41.726  1.00 95.47      GS7
ATOM  40414  CB  MET G  89     221.494 130.919 -40.654  1.00116.51      GS7
ATOM  40415  CG  MET G  89     221.925 130.292 -39.352  1.00116.51      GS7
ATOM  40416  SD  MET G  89     220.505 130.002 -38.303  1.00116.51      GS7
ATOM  40417  CE  MET G  89     220.276 131.631 -37.573  1.00116.51      GS7
ATOM  40418  C   MET G  89     223.578 132.045 -41.453  1.00 95.47      GS7
ATOM  40419  O   MET G  89     224.591 131.834 -40.786  1.00 95.47      GS7
ATOM  40420  N   GLU G  90     223.282 133.235 -41.977  1.00 59.45      GS7
ATOM  40421  CA  GLU G  90     224.147 134.392 -41.799  1.00 59.45      GS7
ATOM  40422  CB  GLU G  90     223.468 135.647 -42.339  1.00200.51      GS7
ATOM  40423  CG  GLU G  90     223.043 135.542 -43.785  1.00200.51      GS7
ATOM  40424  CD  GLU G  90     222.340 136.792 -44.268  1.00200.51      GS7
ATOM  40425  OE1 GLU G  90     221.939 136.832 -45.450  1.00200.51      GS7
ATOM  40426  OE2 GLU G  90     222.188 137.736 -43.463  1.00200.51      GS7
ATOM  40427  C   GLU G  90     224.403 134.556 -40.316  1.00 59.45      GS7
ATOM  40428  O   GLU G  90     223.539 134.230 -39.512  1.00 59.45      GS7
ATOM  40429  N   VAL G  91     225.586 135.039 -39.942  1.00 40.71      GS7
ATOM  40430  CA  VAL G  91     225.898 135.242 -38.528  1.00 40.71      GS7
ATOM  40431  CB  VAL G  91     227.350 134.879 -38.209  1.00 54.22      GS7
ATOM  40432  CG1 VAL G  91     227.628 135.121 -36.743  1.00 54.22      GS7
ATOM  40433  CG2 VAL G  91     227.605 133.432 -38.550  1.00 54.22      GS7
ATOM  40434  C   VAL G  91     225.675 136.707 -38.181  1.00 40.71      GS7
ATOM  40435  O   VAL G  91     226.061 137.599 -38.938  1.00 40.71      GS7
ATOM  40436  N   SER G  92     225.045 136.954 -37.038  1.00 85.06      GS7
ATOM  40437  CA  SER G  92     224.750 138.316 -36.601  1.00 85.06      GS7
ATOM  40438  CB  SER G  92     224.178 138.303 -35.182  1.00160.07      GS7
ATOM  40439  OG  SER G  92     223.952 139.625 -34.718  1.00160.07      GS7
ATOM  40440  C   SER G  92     225.940 139.265 -36.642  1.00 85.06      GS7
ATOM  40441  O   SER G  92     227.040 138.922 -36.204  1.00 85.06      GS7
ATOM  40442  N   PRO G  93     225.723 140.489 -37.154  1.00 53.50      GS7
ATOM  40443  CD  PRO G  93     224.403 141.093 -37.406  1.00177.42      GS7
ATOM  40444  CA  PRO G  93     226.776 141.501 -37.250  1.00 53.50      GS7
ATOM  40445  CB  PRO G  93     226.019 142.743 -37.709  1.00177.42      GS7
ATOM  40446  CG  PRO G  93     224.664 142.546 -37.100  1.00177.42      GS7
ATOM  40447  C   PRO G  93     227.419 141.680 -35.880  1.00 53.50      GS7
ATOM  40448  O   PRO G  93     228.522 142.211 -35.760  1.00 53.50      GS7
ATOM  40449  N   ARG G  94     226.712 141.224 -34.850  1.00 44.83      GS7
ATOM  40450  CA  ARG G  94     227.199 141.301 -33.485  1.00 44.83      GS7
ATOM  40451  CB  ARG G  94     226.035 141.557 -32.531  1.00 76.86      GS7
ATOM  40452  CG  ARG G  94     226.213 140.989 -31.129  1.00 76.86      GS7
ATOM  40453  CD  ARG G  94     227.047 141.868 -30.217  1.00 76.86      GS7
ATOM  40454  NE  ARG G  94     227.112 141.291 -28.873  1.00 76.86      GS7
ATOM  40455  CZ  ARG G  94     227.710 141.860 -27.829  1.00 76.86      GS7
ATOM  40456  NH1 ARG G  94     228.304 143.036 -27.963  1.00 76.86      GS7
ATOM  40457  NH2 ARG G  94     227.723 141.246 -26.651  1.00 76.86      GS7
ATOM  40458  C   ARG G  94     227.897 139.995 -33.133  1.00 44.83      GS7
ATOM  40459  O   ARG G  94     229.041 140.004 -32.689  1.00 44.83      GS7
ATOM  40460  N   ARG G  95     227.218 138.871 -33.350  1.00 50.57      GS7
ATOM  40461  CA  ARG G  95     227.785 137.557 -33.032  1.00 50.57      GS7
ATOM  40462  CB  ARG G  95     226.815 136.429 -33.420  1.00 47.74      GS7
ATOM  40463  CG  ARG G  95     227.347 135.032 -33.089  1.00 47.74      GS7
ATOM  40464  CD  ARG G  95     226.366 133.923 -33.406  1.00 47.74      GS7
ATOM  40465  NE  ARG G  95     226.849 132.647 -32.891  1.00 47.74      GS7
ATOM  40466  CZ  ARG G  95     227.078 132.410 -31.602  1.00 47.74      GS7
ATOM  40467  NH1 ARG G  95     226.862 133.366 -30.708  1.00 47.74      GS7
ATOM  40468  NH2 ARG G  95     227.525 131.226 -31.200  1.00 47.74      GS7
ATOM  40469  C   ARG G  95     229.126 137.315 -33.715  1.00 50.57      GS7
ATOM  40470  O   ARG G  95     229.988 136.596 -33.194  1.00 50.57      GS7
ATOM  40471  N   GLN G  96     229.298 137.904 -34.890  1.00 75.99      GS7
ATOM  40472  CA  GLN G  96     230.544 137.743 -35.610  1.00 75.99      GS7
ATOM  40473  CB  GLN G  96     230.527 138.609 -36.863  1.00 78.65      GS7
ATOM  40474  CG  GLN G  96     230.318 137.813 -38.131  1.00 78.65      GS7
ATOM  40475  CD  GLN G  96     229.590 138.603 -39.186  1.00 78.65      GS7
ATOM  40476  OE1 GLN G  96     229.901 139.769 -39.432  1.00 78.65      GS7
ATOM  40477  NE2 GLN G  96     228.612 137.971 -39.823  1.00 78.65      GS7
ATOM  40478  C   GLN G  96     231.701 138.135 -34.700  1.00 75.99      GS7
ATOM  40479  O   GLN G  96     232.547 137.308 -34.353  1.00 75.99      GS7
ATOM  40480  N   GLN G  97     231.719 139.400 -34.301  1.00 39.28      GS7
ATOM  40481  CA  GLN G  97     232.760 139.901 -33.422  1.00 39.28      GS7
ATOM  40482  CB  GLN G  97     232.387 141.285 -32.914  1.00 88.92      GS7
ATOM  40483  CG  GLN G  97     233.384 141.867 -31.948  1.00 88.92      GS7
ATOM  40484  CD  GLN G  97     232.981 143.246 -31.504  1.00 88.92      GS7
ATOM  40485  OE1 GLN G  97     232.767 144.132 -32.332  1.00 88.92      GS7
ATOM  40486  NE2 GLN G  97     232.866 143.441 -30.192  1.00 88.92      GS7
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ATOM  40487  C   GLN G  97     232.980 138.973 -32.239  1.00 39.28      GS7
ATOM  40488  O   GLN G  97     234.094 138.511 -32.000  1.00 39.28      GS7
ATOM  40489  N   SER G  98     231.913 138.700 -31.499  1.00 59.76      GS7
ATOM  40490  CA  SER G  98     232.004 137.831 -30.334  1.00 59.76      GS7
ATOM  40491  CB  SER G  98     230.607 137.371 -29.905  1.00 83.13      GS7
ATOM  40492  OG  SER G  98     229.748 138.469 -29.659  1.00 83.13      GS7
ATOM  40493  C   SER G  98     232.859 136.615 -30.657  1.00 59.76      GS7
ATOM  40494  O   SER G  98     233.797 136.279 -29.929  1.00 59.76      GS7
ATOM  40495  N   LEU G  99     232.535 135.969 -31.770  1.00 41.09      GS7
ATOM  40496  CA  LEU G  99     233.243 134.772 -32.195  1.00 41.09      GS7
ATOM  40497  CB  LEU G  99     232.456 134.093 -33.312  1.00 62.33      GS7
ATOM  40498  CG  LEU G  99     231.070 133.647 -32.852  1.00 62.33      GS7
ATOM  40499  CD1 LEU G  99     230.209 133.280 -34.044  1.00 62.33      GS7
ATOM  40500  CD2 LEU G  99     231.223 132.477 -31.898  1.00 62.33      GS7
ATOM  40501  C   LEU G  99     234.675 135.034 -32.642  1.00 41.09      GS7
ATOM  40502  O   LEU G  99     235.596 134.326 -32.239  1.00 41.09      GS7
ATOM  40503  N   ALA G 100     234.862 136.041 -33.485  1.00 34.60      GS7
ATOM  40504  CA  ALA G 100     236.196 136.373 -33.955  1.00 34.60      GS7
ATOM  40505  CB  ALA G 100     236.168 137.685 -34.713  1.00 23.16      GS7
ATOM  40506  C   ALA G 100     237.097 136.496 -32.733  1.00 34.60      GS7
ATOM  40507  O   ALA G 100     238.046 135.719 -32.560  1.00 34.60      GS7
ATOM  40508  N   LEU G 101     236.779 137.471 -31.883  1.00 31.13      GS7
ATOM  40509  CA  LEU G 101     237.549 137.710 -30.671  1.00 31.13      GS7
ATOM  40510  CB  LEU G 101     236.893 138.789 -29.810  1.00 31.50      GS7
ATOM  40511  CG  LEU G 101     236.791 140.201 -30.380  1.00 31.50      GS7
ATOM  40512  CD1 LEU G 101     236.803 141.191 -29.229  1.00 31.50      GS7
ATOM  40513  CD2 LEU G 101     237.959 140.484 -31.298  1.00 31.50      GS7
ATOM  40514  C   LEU G 101     237.712 136.451 -29.843  1.00 31.13      GS7
ATOM  40515  O   LEU G 101     238.833 136.042 -29.540  1.00 31.13      GS7
ATOM  40516  N   ARG G 102     236.594 135.842 -29.466  1.00 27.66      GS7
ATOM  40517  CA  ARG G 102     236.659 134.634 -28.674  1.00 27.66      GS7
ATOM  40518  CB  ARG G 102     235.294 133.958 -28.615  1.00 75.40      GS7
ATOM  40519  CG  ARG G 102     235.244 132.772 -27.667  1.00 75.40      GS7
ATOM  40520  CD  ARG G 102     233.832 132.239 -27.548  1.00 75.40      GS7
ATOM  40521  NE  ARG G 102     232.898 133.334 -27.321  1.00 75.40      GS7
ATOM  40522  CZ  ARG G 102     231.581 133.195 -27.241  1.00 75.40      GS7
ATOM  40523  NH1 ARG G 102     231.035 131.995 -27.366  1.00 75.40      GS7
ATOM  40524  NH2 ARG G 102     230.810 134.261 -27.058  1.00 75.40      GS7
ATOM  40525  C   ARG G 102     237.670 133.706 -29.326  1.00 27.66      GS7
ATOM  40526  O   ARG G 102     238.625 133.278 -28.688  1.00 27.66      GS7
ATOM  40527  N   TRP G 103     237.479 133.426 -30.611  1.00 42.72      GS7
ATOM  40528  CA  TRP G 103     238.380 132.536 -31.336  1.00 42.72      GS7
ATOM  40529  CB  TRP G 103     237.988 132.470 -32.817  1.00 44.26      GS7
ATOM  40530  CG  TRP G 103     236.712 131.722 -33.065  1.00 44.26      GS7
ATOM  40531  CD2 TRP G 103     235.952 131.690 -34.277  1.00 44.26      GS7
ATOM  40532  CE2 TRP G 103     234.838 130.870 -34.046  1.00 44.26      GS7
ATOM  40533  CE3 TRP G 103     236.105 132.278 -35.537  1.00 44.26      GS7
ATOM  40534  CD1 TRP G 103     236.051 130.939 -32.181  1.00 44.26      GS7
ATOM  40535  NE1 TRP G 103     234.924 130.423 -32.758  1.00 44.26      GS7
ATOM  40536  CZ2 TRP G 103     233.875 130.615 -35.027  1.00 44.26      GS7
ATOM  40537  CZ3 TRP G 103     235.144 132.022 -36.519  1.00 44.26      GS7
ATOM  40538  CH2 TRP G 103     234.045 131.200 -36.254  1.00 44.26      GS7
ATOM  40539  C   TRP G 103     239.854 132.907 -31.212  1.00 42.72      GS7
ATOM  40540  O   TRP G 103     240.697 132.046 -30.969  1.00 42.72      GS7
ATOM  40541  N   LEU G 104     240.169 134.185 -31.383  1.00 40.63      GS7
ATOM  40542  CA  LEU G 104     241.552 134.621 -31.274  1.00 40.63      GS7
ATOM  40543  CB  LEU G 104     241.636 136.136 -31.403  1.00 41.30      GS7
ATOM  40544  CG  LEU G 104     241.209 136.549 -32.806  1.00 41.30      GS7
ATOM  40545  CD1 LEU G 104     241.256 138.063 -32.975  1.00 41.30      GS7
ATOM  40546  CD2 LEU G 104     242.131 135.862 -33.795  1.00 41.30      GS7
ATOM  40547  C   LEU G 104     242.168 134.167 -29.964  1.00 40.63      GS7
ATOM  40548  O   LEU G 104     242.983 133.250 -29.946  1.00 40.63      GS7
ATOM  40549  N   VAL G 105     241.768 134.789 -28.862  1.00 24.68      GS7
ATOM  40550  CA  VAL G 105     242.325 134.412 -27.571  1.00 24.68      GS7
ATOM  40551  CB  VAL G 105     241.526 134.983 -26.403  1.00 49.68      GS7
ATOM  40552  CG1 VAL G 105     242.166 134.547 -25.077  1.00 49.68      GS7
ATOM  40553  CG2 VAL G 105     241.479 136.488 -26.510  1.00 49.68      GS7
ATOM  40554  C   VAL G 105     242.337 132.910 -27.418  1.00 24.68      GS7
ATOM  40555  O   VAL G 105     243.251 132.347 -26.821  1.00 24.68      GS7
ATOM  40556  N   GLN G 106     241.307 132.276 -27.964  1.00 31.90      GS7
ATOM  40557  CA  GLN G 106     241.162 130.834 -27.898  1.00 31.90      GS7
ATOM  40558  CB  GLN G 106     239.842 130.434 -28.565  1.00123.09      GS7
ATOM  40559  CG  GLN G 106     239.379 129.014 -28.298  1.00123.09      GS7
ATOM  40560  CD  GLN G 106     237.978 128.758 -28.826  1.00123.09      GS7
ATOM  40561  OE1 GLN G 106     237.504 127.621 -28.842  1.00123.09      GS7
ATOM  40562  NE2 GLN G 106     237.305 129.820 -29.258  1.00123.09      GS7
ATOM  40563  C   GLN G 106     242.358 130.192 -28.605  1.00 31.90      GS7
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ATOM  40564  O   GLN G 106     243.121 129.421 -28.010  1.00 31.90       GS7
ATOM  40565  N   ALA G 107     242.527 130.534 -29.875  1.00 60.81       GS7
ATOM  40566  CA  ALA G 107     243.626 130.003 -30.660  1.00 60.81       GS7
ATOM  40567  CB  ALA G 107     243.551 130.535 -32.064  1.00 22.72       GS7
ATOM  40568  C   ALA G 107     244.936 130.417 -30.024  1.00 60.81       GS7
ATOM  40569  O   ALA G 107     245.817 129.594 -29.793  1.00 60.81       GS7
ATOM  40570  N   ALA G 108     245.049 131.708 -29.741  1.00 35.62       GS7
ATOM  40571  CA  ALA G 108     246.244 132.273 -29.134  1.00 35.62       GS7
ATOM  40572  CB  ALA G 108     245.925 133.647 -28.576  1.00 33.31       GS7
ATOM  40573  C   ALA G 108     246.841 131.386 -28.040  1.00 35.62       GS7
ATOM  40574  O   ALA G 108     248.004 130.989 -28.116  1.00 35.62       GS7
ATOM  40575  N   ASN G 109     246.042 131.075 -27.027  1.00 33.32       GS7
ATOM  40576  CA  ASN G 109     246.510 130.247 -25.929  1.00 33.32       GS7
ATOM  40577  CB  ASN G 109     245.646 130.463 -24.696  1.00 73.28       GS7
ATOM  40578  CG  ASN G 109     246.032 131.706 -23.941  1.00 73.28       GS7
ATOM  40579  OD1 ASN G 109     247.121 131.783 -23.378  1.00 73.28       GS7
ATOM  40580  ND2 ASN G 109     245.144 132.695 -23.931  1.00 73.28       GS7
ATOM  40581  C   ASN G 109     246.575 128.770 -26.254  1.00 33.32       GS7
ATOM  40582  O   ASN G 109     246.549 127.924 -25.351  1.00 33.32       GS7
ATOM  40583  N   GLN G 110     246.658 128.461 -27.544  1.00 58.41       GS7
ATOM  40584  CA  GLN G 110     246.773 127.081 -27.997  1.00 58.41       GS7
ATOM  40585  CB  GLN G 110     245.613 126.706 -28.916  1.00135.52       GS7
ATOM  40586  CG  GLN G 110     244.322 126.532 -28.159  1.00135.52       GS7
ATOM  40587  CD  GLN G 110     244.529 125.764 -26.866  1.00135.52       GS7
ATOM  40588  OE1 GLN G 110     244.973 124.616 -26.874  1.00135.52       GS7
ATOM  40589  NE2 GLN G 110     244.216 126.402 -25.744  1.00135.52       GS7
ATOM  40590  C   GLN G 110     248.095 126.944 -28.725  1.00 58.41       GS7
ATOM  40591  O   GLN G 110     248.490 125.857 -29.138  1.00 58.41       GS7
ATOM  40592  N   ARG G 111     248.775 128.072 -28.876  1.00 49.41       GS7
ATOM  40593  CA  ARG G 111     250.070 128.100 -29.524  1.00 49.41       GS7
ATOM  40594  CB  ARG G 111     250.478 129.545 -29.799  1.00 81.66       GS7
ATOM  40595  CG  ARG G 111     249.836 130.130 -31.029  1.00 81.66       GS7
ATOM  40596  CD  ARG G 111     250.059 131.626 -31.120  1.00 81.66       GS7
ATOM  40597  NE  ARG G 111     249.977 132.086 -32.502  1.00 81.66       GS7
ATOM  40598  CZ  ARG G 111     250.925 131.880 -33.409  1.00 81.66       GS7
ATOM  40599  NH1 ARG G 111     252.032 131.228 -33.079  1.00 81.66       GS7
ATOM  40600  NH2 ARG G 111     250.763 132.316 -34.649  1.00 81.66       GS7
ATOM  40601  C   ARG G 111     251.083 127.437 -28.599  1.00 49.41       GS7
ATOM  40602  O   ARG G 111     250.720 126.895 -27.549  1.00 49.41       GS7
ATOM  40603  N   PRO G 112     252.367 127.447 -28.992  1.00 70.73       GS7
ATOM  40604  CD  PRO G 112     252.768 127.467 -30.410  1.00 54.58       GS7
ATOM  40605  CA  PRO G 112     253.429 126.849 -28.187  1.00 70.73       GS7
ATOM  40606  CB  PRO G 112     254.204 126.052 -29.212  1.00 54.58       GS7
ATOM  40607  CG  PRO G 112     254.198 126.955 -30.359  1.00 54.58       GS7
ATOM  40608  C   PRO G 112     254.318 127.830 -27.414  1.00 70.73       GS7
ATOM  40609  O   PRO G 112     254.701 127.525 -26.289  1.00 70.73       GS7
ATOM  40610  N   GLU G 113     254.657 128.984 -27.996  1.00 44.93       GS7
ATOM  40611  CA  GLU G 113     255.507 129.955 -27.291  1.00 44.93       GS7
ATOM  40612  CB  GLU G 113     255.478 131.324 -27.981  1.00 73.58       GS7
ATOM  40613  CG  GLU G 113     254.238 131.618 -28.808  1.00 73.58       GS7
ATOM  40614  CD  GLU G 113     254.392 131.237 -30.278  1.00 73.58       GS7
ATOM  40615  OE1 GLU G 113     255.305 131.768 -30.944  1.00 73.58       GS7
ATOM  40616  OE2 GLU G 113     253.596 130.414 -30.775  1.00 73.58       GS7
ATOM  40617  C   GLU G 113     255.045 130.084 -25.835  1.00 44.93       GS7
ATOM  40618  O   GLU G 113     253.850 130.193 -25.579  1.00 44.93       GS7
ATOM  40619  N   ARG G 114     255.983 130.066 -24.886  1.00 41.65       GS7
ATOM  40620  CA  ARG G 114     255.635 130.124 -23.463  1.00 41.65       GS7
ATOM  40621  CB  ARG G 114     256.859 129.834 -22.589  1.00 64.12       GS7
ATOM  40622  CG  ARG G 114     257.764 128.662 -22.953  1.00 64.12       GS7
ATOM  40623  CD  ARG G 114     258.932 128.708 -21.952  1.00 64.12       GS7
ATOM  40624  NE  ARG G 114     260.075 127.824 -22.198  1.00 64.12       GS7
ATOM  40625  CZ  ARG G 114     260.030 126.496 -22.187  1.00 64.12       GS7
ATOM  40626  NH1 ARG G 114     258.885 125.864 -21.954  1.00 64.12       GS7
ATOM  40627  NH2 ARG G 114     261.143 125.794 -22.366  1.00 64.12       GS7
ATOM  40628  C   ARG G 114     255.021 131.443 -22.963  1.00 41.65       GS7
ATOM  40629  O   ARG G 114     254.060 131.434 -22.193  1.00 41.65       GS7
ATOM  40630  N   ARG G 115     255.592 132.572 -23.373  1.00 52.00       GS7
ATOM  40631  CA  ARG G 115     255.110 133.879 -22.934  1.00 52.00       GS7
ATOM  40632  CB  ARG G 115     256.114 134.967 -23.321  1.00201.26       GS7
ATOM  40633  CG  ARG G 115     257.494 134.793 -22.711  1.00201.26       GS7
ATOM  40634  CD  ARG G 115     258.441 135.885 -23.183  1.00201.26       GS7
ATOM  40635  NE  ARG G 115     257.962 137.218 -22.826  1.00201.26       GS7
ATOM  40636  CZ  ARG G 115     258.561 138.350 -23.187  1.00201.26       GS7
ATOM  40637  NH1 ARG G 115     259.666 138.314 -23.919  1.00201.26       GS7
ATOM  40638  NH2 ARG G 115     258.055 139.519 -22.817  1.00201.26       GS7
ATOM  40639  C   ARG G 115     253.749 134.228 -23.512  1.00 52.00       GS7
ATOM  40640  O   ARG G 115     253.599 134.385 -24.719  1.00 52.00       GS7
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ATOM  40641  N   ALA G 116     252.752 134.360 -22.648  1.00 46.31      GS7
ATOM  40642  CA  ALA G 116     251.415 134.692 -23.111  1.00 46.31      GS7
ATOM  40643  CB  ALA G 116     250.530 135.054 -21.923  1.00 41.99      GS7
ATOM  40644  C   ALA G 116     251.461 135.850 -24.107  1.00 46.31      GS7
ATOM  40645  O   ALA G 116     251.165 135.685 -25.293  1.00 46.31      GS7
ATOM  40646  N   ALA G 117     251.851 137.015 -23.600  1.00 61.13      GS7
ATOM  40647  CA  ALA G 117     251.944 138.242 -24.377  1.00 61.13      GS7
ATOM  40648  CB  ALA G 117     252.980 139.145 -23.757  1.00 54.92      GS7
ATOM  40649  C   ALA G 117     252.273 138.014 -25.840  1.00 61.13      GS7
ATOM  40650  O   ALA G 117     251.710 138.658 -26.722  1.00 61.13      GS7
ATOM  40651  N   VAL G 118     253.197 137.097 -26.096  1.00 48.24      GS7
ATOM  40652  CA  VAL G 118     253.605 136.799 -27.460  1.00 48.24      GS7
ATOM  40653  CB  VAL G 118     254.778 135.816 -27.481  1.00 22.23      GS7
ATOM  40654  CG1 VAL G 118     255.317 135.695 -28.891  1.00 22.23      GS7
ATOM  40655  CG2 VAL G 118     255.845 136.259 -26.497  1.00 22.23      GS7
ATOM  40656  C   VAL G 118     252.462 136.168 -28.234  1.00 48.24      GS7
ATOM  40657  O   VAL G 118     251.986 136.720 -29.223  1.00 48.24      GS7
ATOM  40658  N   ARG G 119     252.038 134.998 -27.773  1.00 46.19      GS7
ATOM  40659  CA  ARG G 119     250.960 134.273 -28.413  1.00 46.19      GS7
ATOM  40660  CB  ARG G 119     250.327 133.304 -27.427  1.00 37.43      GS7
ATOM  40661  CG  ARG G 119     251.289 132.268 -26.928  1.00 37.43      GS7
ATOM  40662  CD  ARG G 119     250.544 131.125 -26.294  1.00 37.43      GS7
ATOM  40663  NE  ARG G 119     249.925 131.510 -25.033  1.00 37.43      GS7
ATOM  40664  CZ  ARG G 119     250.603 131.784 -23.924  1.00 37.43      GS7
ATOM  40665  NH1 ARG G 119     251.925 131.717 -23.919  1.00 37.43      GS7
ATOM  40666  NH2 ARG G 119     249.961 132.120 -22.816  1.00 37.43      GS7
ATOM  40667  C   ARG G 119     249.910 135.219 -28.955  1.00 46.19      GS7
ATOM  40668  O   ARG G 119     249.520 135.114 -30.114  1.00 46.19      GS7
ATOM  40669  N   ILE G 120     249.457 136.145 -28.116  1.00 27.93      GS7
ATOM  40670  CA  ILE G 120     248.453 137.115 -28.538  1.00 27.93      GS7
ATOM  40671  CB  ILE G 120     248.172 138.138 -27.423  1.00 40.83      GS7
ATOM  40672  CG2 ILE G 120     246.905 138.929 -27.726  1.00 40.83      GS7
ATOM  40673  CG1 ILE G 120     248.031 137.408 -26.090  1.00 40.83      GS7
ATOM  40674  CD1 ILE G 120     246.944 136.372 -26.086  1.00 40.83      GS7
ATOM  40675  C   ILE G 120     249.017 137.852 -29.749  1.00 27.93      GS7
ATOM  40676  O   ILE G 120     248.455 137.819 -30.857  1.00 27.93      GS7
ATOM  40677  N   ALA G 121     250.147 138.510 -29.521  1.00 51.10      GS7
ATOM  40678  CA  ALA G 121     250.817 139.261 -30.567  1.00 51.10      GS7
ATOM  40679  CB  ALA G 121     252.196 139.701 -30.088  1.00112.66      GS7
ATOM  40680  C   ALA G 121     250.947 138.379 -31.793  1.00 51.10      GS7
ATOM  40681  O   ALA G 121     250.553 138.754 -32.891  1.00 51.10      GS7
ATOM  40682  N   HIS G 122     251.484 137.188 -31.592  1.00 27.45      GS7
ATOM  40683  CA  HIS G 122     251.674 136.278 -32.696  1.00 27.45      GS7
ATOM  40684  CB  HIS G 122     252.449 135.051 -32.226  1.00 95.86      GS7
ATOM  40685  CG  HIS G 122     253.929 135.258 -32.224  1.00 95.86      GS7
ATOM  40686  CD2 HIS G 122     254.677 136.316 -32.618  1.00 95.86      GS7
ATOM  40687  ND1 HIS G 122     254.819 134.291 -31.810  1.00 95.86      GS7
ATOM  40688  CE1 HIS G 122     256.052 134.744 -31.952  1.00 95.86      GS7
ATOM  40689  NE2 HIS G 122     255.994 135.971 -32.440  1.00 95.86      GS7
ATOM  40690  C   HIS G 122     250.396 135.875 -33.401  1.00 27.45      GS7
ATOM  40691  O   HIS G 122     250.163 136.286 -34.538  1.00 27.45      GS7
ATOM  40692  N   GLU G 123     249.573 135.078 -32.728  1.00 55.95      GS7
ATOM  40693  CA  GLU G 123     248.322 134.612 -33.307  1.00 55.95      GS7
ATOM  40694  CB  GLU G 123     247.359 134.158 -32.213  1.00 68.21      GS7
ATOM  40695  CG  GLU G 123     246.085 133.554 -32.767  1.00 68.21      GS7
ATOM  40696  CD  GLU G 123     246.337 132.295 -33.580  1.00 68.21      GS7
ATOM  40697  OE1 GLU G 123     245.441 131.899 -34.361  1.00 68.21      GS7
ATOM  40698  OE2 GLU G 123     247.427 131.697 -33.432  1.00 68.21      GS7
ATOM  40699  C   GLU G 123     247.694 135.725 -34.123  1.00 55.95      GS7
ATOM  40700  O   GLU G 123     247.192 135.496 -35.223  1.00 55.95      GS7
ATOM  40701  N   LEU G 124     247.733 136.936 -33.577  1.00 28.99      GS7
ATOM  40702  CA  LEU G 124     247.187 138.093 -34.268  1.00 28.99      GS7
ATOM  40703  CB  LEU G 124     247.465 139.349 -33.450  1.00 47.08      GS7
ATOM  40704  CG  LEU G 124     246.290 139.750 -32.568  1.00 47.08      GS7
ATOM  40705  CD1 LEU G 124     246.781 140.276 -31.238  1.00 47.08      GS7
ATOM  40706  CD2 LEU G 124     245.454 140.787 -33.312  1.00 47.08      GS7
ATOM  40707  C   LEU G 124     247.799 138.221 -35.662  1.00 28.99      GS7
ATOM  40708  O   LEU G 124     247.097 138.158 -36.672  1.00 28.99      GS7
ATOM  40709  N   MET G 125     249.115 138.387 -35.705  1.00 44.28      GS7
ATOM  40710  CA  MET G 125     249.828 138.514 -36.961  1.00 44.28      GS7
ATOM  40711  CB  MET G 125     251.333 138.467 -36.696  1.00 86.27      GS7
ATOM  40712  CG  MET G 125     251.791 139.666 -35.866  1.00 86.27      GS7
ATOM  40713  SD  MET G 125     253.522 139.720 -35.369  1.00 86.27      GS7
ATOM  40714  CE  MET G 125     253.409 139.254 -33.644  1.00 86.27      GS7
ATOM  40715  C   MET G 125     249.393 137.426 -37.936  1.00 44.28      GS7
ATOM  40716  O   MET G 125     248.968 137.729 -39.050  1.00 44.28      GS7
ATOM  40717  N   ASP G 126     249.479 136.164 -37.519  1.00 38.88      GS7
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ATOM  40718  CA  ASP G 126     249.058 135.058 -38.380  1.00 38.88       GS7
ATOM  40719  CB  ASP G 126     249.019 133.748 -37.594  1.00127.23       GS7
ATOM  40720  CG  ASP G 126     250.379 133.099 -37.482  1.00127.23       GS7
ATOM  40721  OD1 ASP G 126     251.329 133.777 -37.034  1.00127.23       GS7
ATOM  40722  OD2 ASP G 126     250.497 131.909 -37.842  1.00127.23       GS7
ATOM  40723  C   ASP G 126     247.673 135.368 -38.920  1.00 38.88       GS7
ATOM  40724  O   ASP G 126     247.429 135.322 -40.128  1.00 38.88       GS7
ATOM  40725  N   ALA G 127     246.768 135.694 -38.007  1.00 34.58       GS7
ATOM  40726  CA  ALA G 127     245.408 136.030 -38.381  1.00 34.58       GS7
ATOM  40727  CB  ALA G 127     244.663 136.584 -37.182  1.00141.62       GS7
ATOM  40728  C   ALA G 127     245.464 137.065 -39.491  1.00 34.58       GS7
ATOM  40729  O   ALA G 127     244.883 136.880 -40.558  1.00 34.58       GS7
ATOM  40730  N   ALA G 128     246.175 138.154 -39.235  1.00 61.98       GS7
ATOM  40731  CA  ALA G 128     246.310 139.205 -40.227  1.00 61.98       GS7
ATOM  40732  CB  ALA G 128     247.378 140.188 -39.795  1.00 87.78       GS7
ATOM  40733  C   ALA G 128     246.681 138.584 -41.569  1.00 61.98       GS7
ATOM  40734  O   ALA G 128     245.972 138.770 -42.567  1.00 61.98       GS7
ATOM  40735  N   GLU G 129     247.789 137.838 -41.574  1.00 83.82       GS7
ATOM  40736  CA  GLU G 129     248.299 137.167 -42.773  1.00 83.82       GS7
ATOM  40737  CB  GLU G 129     249.489 136.275 -42.410  1.00201.26       GS7
ATOM  40738  CG  GLU G 129     250.770 137.037 -42.108  1.00201.26       GS7
ATOM  40739  CD  GLU G 129     251.403 137.624 -43.354  1.00201.26       GS7
ATOM  40740  OE1 GLU G 129     251.886 136.842 -44.201  1.00201.26       GS7
ATOM  40741  OE2 GLU G 129     251.413 138.866 -43.489  1.00201.26       GS7
ATOM  40742  C   GLU G 129     247.230 136.332 -43.468  1.00 83.82       GS7
ATOM  40743  O   GLU G 129     247.093 136.379 -44.689  1.00 83.82       GS7
ATOM  40744  N   GLY G 130     246.476 135.565 -42.689  1.00 52.49       GS7
ATOM  40745  CA  GLY G 130     245.429 134.748 -43.269  1.00 52.49       GS7
ATOM  40746  C   GLY G 130     245.562 133.315 -42.828  1.00 52.49       GS7
ATOM  40747  O   GLY G 130     244.891 132.424 -43.343  1.00 52.49       GS7
ATOM  40748  N   LYS G 131     246.429 133.100 -41.852  1.00 53.06       GS7
ATOM  40749  CA  LYS G 131     246.679 131.769 -41.329  1.00 53.06       GS7
ATOM  40750  CB  LYS G 131     248.115 131.374 -41.684  1.00141.49       GS7
ATOM  40751  CG  LYS G 131     249.121 132.502 -41.440  1.00141.49       GS7
ATOM  40752  CD  LYS G 131     250.454 132.276 -42.156  1.00141.49       GS7
ATOM  40753  CE  LYS G 131     251.412 133.457 -41.939  1.00141.49       GS7
ATOM  40754  NZ  LYS G 131     252.706 133.342 -42.684  1.00141.49       GS7
ATOM  40755  C   LYS G 131     246.474 131.737 -39.814  1.00 53.06       GS7
ATOM  40756  O   LYS G 131     246.138 132.756 -39.202  1.00 53.06       GS7
ATOM  40757  N   GLY G 132     246.655 130.563 -39.214  1.00 74.27       GS7
ATOM  40758  CA  GLY G 132     246.520 130.461 -37.773  1.00 74.27       GS7
ATOM  40759  C   GLY G 132     245.299 129.769 -37.206  1.00 74.27       GS7
ATOM  40760  O   GLY G 132     244.200 129.858 -37.753  1.00 74.27       GS7
ATOM  40761  N   GLY G 133     245.508 129.095 -36.077  1.00 81.88       GS7
ATOM  40762  CA  GLY G 133     244.445 128.371 -35.403  1.00 81.88       GS7
ATOM  40763  C   GLY G 133     243.105 129.079 -35.347  1.00 81.88       GS7
ATOM  40764  O   GLY G 133     242.061 128.424 -35.328  1.00 81.88       GS7
ATOM  40765  N   ALA G 134     243.117 130.409 -35.313  1.00 45.93       GS7
ATOM  40766  CA  ALA G 134     241.868 131.155 -35.259  1.00 45.93       GS7
ATOM  40767  CB  ALA G 134     242.133 132.621 -34.986  1.00 11.84       GS7
ATOM  40768  C   ALA G 134     241.185 130.987 -36.597  1.00 45.93       GS7
ATOM  40769  O   ALA G 134     240.133 130.366 -36.701  1.00 45.93       GS7
ATOM  40770  N   VAL G 135     241.804 131.532 -37.631  1.00 41.75       GS7
ATOM  40771  CA  VAL G 135     241.245 131.432 -38.964  1.00 41.75       GS7
ATOM  40772  CB  VAL G 135     242.224 131.981 -40.000  1.00 52.59       GS7
ATOM  40773  CG1 VAL G 135     241.639 131.853 -41.387  1.00 52.59       GS7
ATOM  40774  CG2 VAL G 135     242.522 133.437 -39.683  1.00 52.59       GS7
ATOM  40775  C   VAL G 135     240.879 129.990 -39.295  1.00 41.75       GS7
ATOM  40776  O   VAL G 135     239.958 129.743 -40.072  1.00 41.75       GS7
ATOM  40777  N   LYS G 136     241.598 129.039 -38.707  1.00 58.72       GS7
ATOM  40778  CA  LYS G 136     241.294 127.633 -38.933  1.00 58.72       GS7
ATOM  40779  CB  LYS G 136     242.020 126.754 -37.915  1.00201.26       GS7
ATOM  40780  CG  LYS G 136     241.630 125.282 -37.986  1.00201.26       GS7
ATOM  40781  CD  LYS G 136     241.859 124.566 -36.658  1.00201.26       GS7
ATOM  40782  CE  LYS G 136     243.320 124.589 -36.236  1.00201.26       GS7
ATOM  40783  NZ  LYS G 136     243.524 123.918 -34.920  1.00201.26       GS7
ATOM  40784  C   LYS G 136     239.791 127.495 -38.721  1.00 58.72       GS7
ATOM  40785  O   LYS G 136     239.040 127.255 -39.666  1.00 58.72       GS7
ATOM  40786  N   LYS G 137     239.363 127.676 -37.471  1.00 32.68       GS7
ATOM  40787  CA  LYS G 137     237.957 127.579 -37.099  1.00 32.68       GS7
ATOM  40788  CB  LYS G 137     237.767 128.058 -35.654  1.00118.10       GS7
ATOM  40789  CG  LYS G 137     238.739 127.346 -34.711  1.00118.10       GS7
ATOM  40790  CD  LYS G 137     238.599 127.690 -33.225  1.00118.10       GS7
ATOM  40791  CE  LYS G 137     239.670 126.927 -32.419  1.00118.10       GS7
ATOM  40792  NZ  LYS G 137     239.532 127.018 -30.940  1.00118.10       GS7
ATOM  40793  C   LYS G 137     237.117 128.386 -38.071  1.00 32.68       GS7
ATOM  40794  O   LYS G 137     236.266 127.827 -38.749  1.00 32.68       GS7
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ATOM  40795  N   LYS G 138     237.376 129.687 -38.176  1.00 38.91      GS7
ATOM  40796  CA  LYS G 138     236.607 130.525 -39.093  1.00 38.91      GS7
ATOM  40797  CB  LYS G 138     237.302 131.862 -39.345  1.00 42.07      GS7
ATOM  40798  CG  LYS G 138     236.393 132.914 -39.977  1.00 42.07      GS7
ATOM  40799  CD  LYS G 138     235.842 132.483 -41.334  1.00 42.07      GS7
ATOM  40800  CE  LYS G 138     236.813 132.748 -42.481  1.00 42.07      GS7
ATOM  40801  NZ  LYS G 138     236.788 134.173 -42.957  1.00 42.07      GS7
ATOM  40802  C   LYS G 138     236.445 129.800 -40.414  1.00 38.91      GS7
ATOM  40803  O   LYS G 138     235.339 129.681 -40.929  1.00 38.91      GS7
ATOM  40804  N   GLU G 139     237.558 129.320 -40.957  1.00 62.74      GS7
ATOM  40805  CA  GLU G 139     237.547 128.598 -42.222  1.00 62.74      GS7
ATOM  40806  CB  GLU G 139     238.970 128.164 -42.594  1.00201.26      GS7
ATOM  40807  CG  GLU G 139     239.927 129.313 -42.878  1.00201.26      GS7
ATOM  40808  CD  GLU G 139     241.376 128.862 -42.983  1.00201.26      GS7
ATOM  40809  OE1 GLU G 139     241.887 128.269 -42.009  1.00201.26      GS7
ATOM  40810  OE2 GLU G 139     242.005 129.102 -44.037  1.00201.26      GS7
ATOM  40811  C   GLU G 139     236.643 127.368 -42.140  1.00 62.74      GS7
ATOM  40812  O   GLU G 139     235.879 127.096 -43.070  1.00 62.74      GS7
ATOM  40813  N   ASP G 140     236.731 126.641 -41.024  1.00 67.79      GS7
ATOM  40814  CA  ASP G 140     235.948 125.421 -40.799  1.00 67.79      GS7
ATOM  40815  CB  ASP G 140     236.477 124.661 -39.579  1.00162.27      GS7
ATOM  40816  CG  ASP G 140     237.825 124.019 -39.828  1.00162.27      GS7
ATOM  40817  OD1 ASP G 140     237.938 123.229 -40.788  1.00162.27      GS7
ATOM  40818  OD2 ASP G 140     238.769 124.300 -39.060  1.00162.27      GS7
ATOM  40819  C   ASP G 140     234.449 125.641 -40.622  1.00 67.79      GS7
ATOM  40820  O   ASP G 140     233.639 124.873 -41.144  1.00 67.79      GS7
ATOM  40821  N   VAL G 141     234.087 126.672 -39.863  1.00 46.48      GS7
ATOM  40822  CA  VAL G 141     232.686 126.995 -39.623  1.00 46.48      GS7
ATOM  40823  CB  VAL G 141     232.547 128.265 -38.759  1.00 50.85      GS7
ATOM  40824  CG1 VAL G 141     231.078 128.611 -38.563  1.00 50.85      GS7
ATOM  40825  CG2 VAL G 141     233.222 128.049 -37.419  1.00 50.85      GS7
ATOM  40826  C   VAL G 141     232.028 127.239 -40.969  1.00 46.48      GS7
ATOM  40827  O   VAL G 141     231.101 126.534 -41.358  1.00 46.48      GS7
ATOM  40828  N   GLU G 142     232.511 128.244 -41.685  1.00 44.00      GS7
ATOM  40829  CA  GLU G 142     231.955 128.537 -42.989  1.00 44.00      GS7
ATOM  40830  CB  GLU G 142     232.833 129.551 -43.724  1.00 92.14      GS7
ATOM  40831  CG  GLU G 142     232.827 130.932 -43.089  1.00 92.14      GS7
ATOM  40832  CD  GLU G 142     233.662 131.940 -43.857  1.00 92.14      GS7
ATOM  40833  OE1 GLU G 142     233.656 133.125 -43.468  1.00 92.14      GS7
ATOM  40834  OE2 GLU G 142     234.325 131.550 -44.842  1.00 92.14      GS7
ATOM  40835  C   GLU G 142     231.866 127.235 -43.782  1.00 44.00      GS7
ATOM  40836  O   GLU G 142     230.894 127.008 -44.504  1.00 44.00      GS7
ATOM  40837  N   ARG G 143     232.874 126.375 -43.634  1.00 56.86      GS7
ATOM  40838  CA  ARG G 143     232.897 125.098 -44.341  1.00 56.86      GS7
ATOM  40839  CB  ARG G 143     234.137 124.288 -43.959  1.00181.69      GS7
ATOM  40840  CG  ARG G 143     235.392 124.731 -44.690  1.00181.69      GS7
ATOM  40841  CD  ARG G 143     236.609 123.911 -44.287  1.00181.69      GS7
ATOM  40842  NE  ARG G 143     237.767 124.221 -45.123  1.00181.69      GS7
ATOM  40843  CZ  ARG G 143     238.972 123.680 -44.970  1.00181.69      GS7
ATOM  40844  NH1 ARG G 143     239.187 122.796 -44.005  1.00181.69      GS7
ATOM  40845  NH2 ARG G 143     239.961 124.018 -45.785  1.00181.69      GS7
ATOM  40846  C   ARG G 143     231.640 124.299 -44.058  1.00 56.86      GS7
ATOM  40847  O   ARG G 143     231.033 123.770 -44.975  1.00 56.86      GS7
ATOM  40848  N   MET G 144     231.247 124.216 -42.792  1.00 42.33      GS7
ATOM  40849  CA  MET G 144     230.039 123.488 -42.413  1.00 42.33      GS7
ATOM  40850  CB  MET G 144     229.804 123.597 -40.909  1.00136.84      GS7
ATOM  40851  CG  MET G 144     230.918 122.997 -40.091  1.00136.84      GS7
ATOM  40852  SD  MET G 144     231.316 121.377 -40.729  1.00136.84      GS7
ATOM  40853  CE  MET G 144     229.904 120.445 -40.157  1.00136.84      GS7
ATOM  40854  C   MET G 144     228.838 124.057 -43.159  1.00 42.33      GS7
ATOM  40855  O   MET G 144     228.123 123.334 -43.847  1.00 42.33      GS7
ATOM  40856  N   ALA G 145     228.600 125.354 -43.018  1.00 62.39      GS7
ATOM  40857  CA  ALA G 145     227.492 125.962 -43.737  1.00 62.39      GS7
ATOM  40858  CB  ALA G 145     227.415 127.447 -43.425  1.00134.72      GS7
ATOM  40859  C   ALA G 145     227.847 125.745 -45.202  1.00 62.39      GS7
ATOM  40860  O   ALA G 145     228.869 125.126 -45.495  1.00 62.39      GS7
ATOM  40861  N   GLU G 146     227.028 126.245 -46.122  1.00137.35      GS7
ATOM  40862  CA  GLU G 146     227.312 126.085 -47.551  1.00137.35      GS7
ATOM  40863  CB  GLU G 146     228.299 127.161 -48.016  1.00201.26      GS7
ATOM  40864  CG  GLU G 146     227.777 128.584 -47.874  1.00201.26      GS7
ATOM  40865  CD  GLU G 146     226.561 128.849 -48.743  1.00201.26      GS7
ATOM  40866  OE1 GLU G 146     226.696 128.796 -49.984  1.00201.26      GS7
ATOM  40867  OE2 GLU G 146     225.470 129.107 -48.187  1.00201.26      GS7
ATOM  40868  C   GLU G 146     227.883 124.700 -47.853  1.00137.35      GS7
ATOM  40869  O   GLU G 146     228.605 124.505 -48.834  1.00137.35      GS7
ATOM  40870  N   ALA G 147     227.554 123.754 -46.981  1.00 40.50      GS7
ATOM  40871  CA  ALA G 147     227.979 122.369 -47.083  1.00 40.50      GS7
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ATOM  40872  CB  ALA G 147     229.277 122.161 -46.356  1.00 27.92       GS7
ATOM  40873  C   ALA G 147     226.866 121.619 -46.384  1.00 40.50       GS7
ATOM  40874  O   ALA G 147     227.039 120.504 -45.880  1.00 40.50       GS7
ATOM  40875  N   ASN G 148     225.725 122.291 -46.344  1.00103.74       GS7
ATOM  40876  CA  ASN G 148     224.503 121.796 -45.744  1.00103.74       GS7
ATOM  40877  CB  ASN G 148     224.454 122.119 -44.249  1.00 63.15       GS7
ATOM  40878  CG  ASN G 148     225.216 121.117 -43.407  1.00 63.15       GS7
ATOM  40879  OD1 ASN G 148     224.781 119.986 -43.235  1.00 63.15       GS7
ATOM  40880  ND2 ASN G 148     226.361 121.530 -42.879  1.00 63.15       GS7
ATOM  40881  C   ASN G 148     223.429 122.581 -46.459  1.00103.74       GS7
ATOM  40882  O   ASN G 148     222.275 122.601 -46.036  1.00103.74       GS7
ATOM  40883  N   ARG G 149     223.832 123.246 -47.541  1.00 66.92       GS7
ATOM  40884  CA  ARG G 149     222.912 124.048 -48.336  1.00 66.92       GS7
ATOM  40885  CB  ARG G 149     223.507 124.309 -49.716  1.00169.17       GS7
ATOM  40886  CG  ARG G 149     224.720 125.205 -49.673  1.00169.17       GS7
ATOM  40887  CD  ARG G 149     224.367 126.636 -50.024  1.00169.17       GS7
ATOM  40888  NE  ARG G 149     224.200 126.797 -51.466  1.00169.17       GS7
ATOM  40889  CZ  ARG G 149     224.065 127.968 -52.082  1.00169.17       GS7
ATOM  40890  NH1 ARG G 149     224.074 129.093 -51.380  1.00169.17       GS7
ATOM  40891  NH2 ARG G 149     223.934 128.017 -53.403  1.00169.17       GS7
ATOM  40892  C   ARG G 149     221.590 123.309 -48.459  1.00 66.92       GS7
ATOM  40893  O   ARG G 149     220.536 123.915 -48.642  1.00 66.92       GS7
ATOM  40894  N   ALA G 150     221.659 121.989 -48.335  1.00 45.43       GS7
ATOM  40895  CA  ALA G 150     220.484 121.137 -48.421  1.00 45.43       GS7
ATOM  40896  CB  ALA G 150     220.920 119.671 -48.372  1.00 53.42       GS7
ATOM  40897  C   ALA G 150     219.465 121.432 -47.309  1.00 45.43       GS7
ATOM  40898  O   ALA G 150     218.530 120.660 -47.088  1.00 45.43       GS7
ATOM  40899  N   TYR G 151     219.645 122.547 -46.609  1.00 57.00       GS7
ATOM  40900  CA  TYR G 151     218.723 122.901 -45.539  1.00 57.00       GS7
ATOM  40901  CB  TYR G 151     219.242 122.389 -44.199  1.00 83.07       GS7
ATOM  40902  CG  TYR G 151     219.538 120.915 -44.218  1.00 83.07       GS7
ATOM  40903  CD1 TYR G 151     220.848 120.453 -44.201  1.00 83.07       GS7
ATOM  40904  CE1 TYR G 151     221.133 119.094 -44.246  1.00 83.07       GS7
ATOM  40905  CD2 TYR G 151     218.510 119.983 -44.282  1.00 83.07       GS7
ATOM  40906  CE2 TYR G 151     218.780 118.622 -44.328  1.00 83.07       GS7
ATOM  40907  CZ  TYR G 151     220.096 118.180 -44.308  1.00 83.07       GS7
ATOM  40908  OH  TYR G 151     220.379 116.828 -44.334  1.00 83.07       GS7
ATOM  40909  C   TYR G 151     218.469 124.392 -45.453  1.00 57.00       GS7
ATOM  40910  O   TYR G 151     217.751 124.861 -44.571  1.00 57.00       GS7
ATOM  40911  N   ALA G 152     219.054 125.141 -46.375  1.00 87.96       GS7
ATOM  40912  CA  ALA G 152     218.856 126.577 -46.387  1.00 87.96       GS7
ATOM  40913  CB  ALA G 152     219.638 127.206 -47.522  1.00128.34       GS7
ATOM  40914  C   ALA G 152     217.370 126.862 -46.554  1.00 87.96       GS7
ATOM  40915  O   ALA G 152     216.954 128.018 -46.516  1.00 87.96       GS7
ATOM  40916  N   HIS G 153     216.575 125.809 -46.746  1.00 80.43       GS7
ATOM  40917  CA  HIS G 153     215.134 125.969 -46.904  1.00 80.43       GS7
ATOM  40918  CB  HIS G 153     214.581 124.966 -47.923  1.00 77.31       GS7
ATOM  40919  CG  HIS G 153     214.755 123.533 -47.533  1.00 77.31       GS7
ATOM  40920  CD2 HIS G 153     213.893 122.488 -47.579  1.00 77.31       GS7
ATOM  40921  ND1 HIS G 153     215.949 123.024 -47.072  1.00 77.31       GS7
ATOM  40922  CE1 HIS G 153     215.816 121.728 -46.850  1.00 77.31       GS7
ATOM  40923  NE2 HIS G 153     214.578 121.378 -47.151  1.00 77.31       GS7
ATOM  40924  C   HIS G 153     214.419 125.847 -45.558  1.00 80.43       GS7
ATOM  40925  O   HIS G 153     213.256 126.237 -45.429  1.00 80.43       GS7
ATOM  40926  N   TYR G 154     215.118 125.299 -44.562  1.00 52.05       GS7
ATOM  40927  CA  TYR G 154     214.577 125.199 -43.206  1.00 52.05       GS7
ATOM  40928  CB  TYR G 154     215.145 123.986 -42.466  1.00105.75       GS7
ATOM  40929  CG  TYR G 154     214.726 122.646 -43.025  1.00105.75       GS7
ATOM  40930  CD1 TYR G 154     215.396 121.482 -42.657  1.00105.75       GS7
ATOM  40931  CE1 TYR G 154     215.039 120.244 -43.189  1.00105.75       GS7
ATOM  40932  CD2 TYR G 154     213.675 122.540 -43.937  1.00105.75       GS7
ATOM  40933  CE2 TYR G 154     213.306 121.303 -44.473  1.00105.75       GS7
ATOM  40934  CZ  TYR G 154     213.997 120.162 -44.096  1.00105.75       GS7
ATOM  40935  OH  TYR G 154     213.672 118.943 -44.643  1.00105.75       GS7
ATOM  40936  C   TYR G 154     215.073 126.480 -42.532  1.00 52.05       GS7
ATOM  40937  O   TYR G 154     215.389 126.491 -41.344  1.00 52.05       GS7
ATOM  40938  N   ARG G 155     215.139 127.542 -43.338  1.00131.55       GS7
ATOM  40939  CA  ARG G 155     215.601 128.879 -42.957  1.00131.55       GS7
ATOM  40940  CB  ARG G 155     214.736 129.945 -43.634  1.00200.45       GS7
ATOM  40941  CG  ARG G 155     215.229 130.350 -45.013  1.00200.45       GS7
ATOM  40942  CD  ARG G 155     216.648 130.905 -44.948  1.00200.45       GS7
ATOM  40943  NE  ARG G 155     217.114 131.386 -46.247  1.00200.45       GS7
ATOM  40944  CZ  ARG G 155     218.321 131.901 -46.466  1.00200.45       GS7
ATOM  40945  NH1 ARG G 155     219.190 132.002 -45.470  1.00200.45       GS7
ATOM  40946  NH2 ARG G 155     218.657 132.319 -47.679  1.00200.45       GS7
ATOM  40947  C   ARG G 155     215.738 129.228 -41.488  1.00131.55       GS7
ATOM  40948  O   ARG G 155     216.659 128.761 -40.824  1.00131.55       GS7
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ATOM  40949  N   TRP G 156     214.836 130.070 -40.990  1.00201.26      GS7
ATOM  40950  CA  TRP G 156     214.876 130.505 -39.597  1.00201.26      GS7
ATOM  40951  CB  TRP G 156     214.874 129.286 -38.658  1.00111.06      GS7
ATOM  40952  CG  TRP G 156     215.520 129.519 -37.323  1.00111.06      GS7
ATOM  40953  CD2 TRP G 156     216.519 128.697 -36.706  1.00111.06      GS7
ATOM  40954  CE2 TRP G 156     216.853 129.301 -35.473  1.00111.06      GS7
ATOM  40955  CE3 TRP G 156     217.165 127.508 -37.075  1.00111.06      GS7
ATOM  40956  CD1 TRP G 156     215.292 130.557 -36.464  1.00111.06      GS7
ATOM  40957  NE1 TRP G 156     216.091 130.435 -35.350  1.00111.06      GS7
ATOM  40958  CZ2 TRP G 156     217.809 128.753 -34.603  1.00111.06      GS7
ATOM  40959  CZ3 TRP G 156     218.113 126.962 -36.212  1.00111.06      GS7
ATOM  40960  CH2 TRP G 156     218.425 127.586 -34.991  1.00111.06      GS7
ATOM  40961  C   TRP G 156     216.102 131.391 -39.351  1.00201.26      GS7
ATOM  40962  O   TRP G 156     217.176 130.852 -39.008  1.00201.26      GS7
ATOM  40963  OXT TRP G 156     215.977 132.623 -39.529  1.00111.06      GS7
TER   40963       TRP G 156                                             GS7
ATOM  40964  CB  MET H   1     139.328 115.435 -42.329  1.00 72.76      HS8
ATOM  40965  CG  MET H   1     138.126 114.818 -41.573  1.00 72.76      HS8
ATOM  40966  SD  MET H   1     137.819 113.016 -41.696  1.00 72.76      HS8
ATOM  40967  CE  MET H   1     137.006 112.864 -43.302  1.00 72.76      HS8
ATOM  40968  C   MET H   1     140.774 115.362 -40.284  1.00148.51      HS8
ATOM  40969  O   MET H   1     141.604 114.799 -39.571  1.00148.51      HS8
ATOM  40970  N   MET H   1     141.086 113.686 -42.058  1.00148.51      HS8
ATOM  40971  CA  MET H   1     140.732 115.109 -41.782  1.00148.51      HS8
ATOM  40972  N   LEU H   2     139.880 116.219 -39.813  1.00 51.45      HS8
ATOM  40973  CA  LEU H   2     139.801 116.521 -38.391  1.00 51.45      HS8
ATOM  40974  CB  LEU H   2     138.997 117.806 -38.160  1.00 67.87      HS8
ATOM  40975  CG  LEU H   2     139.661 119.158 -38.414  1.00 67.87      HS8
ATOM  40976  CD1 LEU H   2     138.659 120.267 -38.148  1.00 67.87      HS8
ATOM  40977  CD2 LEU H   2     140.873 119.313 -37.509  1.00 67.87      HS8
ATOM  40978  C   LEU H   2     139.145 115.382 -37.603  1.00 51.45      HS8
ATOM  40979  O   LEU H   2     137.939 115.174 -37.687  1.00 51.45      HS8
ATOM  40980  N   THR H   3     139.935 114.651 -36.830  1.00 29.59      HS8
ATOM  40981  CA  THR H   3     139.400 113.560 -36.032  1.00 29.59      HS8
ATOM  40982  CB  THR H   3     140.507 112.864 -35.256  1.00 47.13      HS8
ATOM  40983  OG1 THR H   3     141.074 113.778 -34.310  1.00 47.13      HS8
ATOM  40984  CG2 THR H   3     141.588 112.397 -36.203  1.00 47.13      HS8
ATOM  40985  C   THR H   3     138.340 114.037 -35.038  1.00 29.59      HS8
ATOM  40986  O   THR H   3     137.207 113.592 -35.086  1.00 29.59      HS8
ATOM  40987  N   ASP H   4     138.690 114.943 -34.133  1.00 34.53      HS8
ATOM  40988  CA  ASP H   4     137.702 115.413 -33.171  1.00 34.53      HS8
ATOM  40989  CB  ASP H   4     138.024 114.877 -31.790  1.00 77.22      HS8
ATOM  40990  CG  ASP H   4     137.140 115.481 -30.738  1.00 77.22      HS8
ATOM  40991  OD1 ASP H   4     135.899 115.418 -30.899  1.00 77.22      HS8
ATOM  40992  OD2 ASP H   4     137.680 116.027 -29.757  1.00 77.22      HS8
ATOM  40993  C   ASP H   4     137.496 116.926 -33.069  1.00 34.53      HS8
ATOM  40994  O   ASP H   4     138.178 117.603 -32.303  1.00 34.53      HS8
ATOM  40995  N   PRO H   5     136.523 117.468 -33.819  1.00 34.59      HS8
ATOM  40996  CD  PRO H   5     135.691 116.744 -34.797  1.00 17.71      HS8
ATOM  40997  CA  PRO H   5     136.194 118.895 -33.839  1.00 34.59      HS8
ATOM  40998  CB  PRO H   5     134.880 118.924 -34.601  1.00 17.71      HS8
ATOM  40999  CG  PRO H   5     135.078 117.871 -35.610  1.00 17.71      HS8
ATOM  41000  C   PRO H   5     136.078 119.556 -32.476  1.00 34.59      HS8
ATOM  41001  O   PRO H   5     136.704 120.585 -32.224  1.00 34.59      HS8
ATOM  41002  N   ILE H   6     135.270 118.971 -31.602  1.00 20.68      HS8
ATOM  41003  CA  ILE H   6     135.076 119.535 -30.273  1.00 20.68      HS8
ATOM  41004  CB  ILE H   6     134.276 118.587 -29.361  1.00 24.24      HS8
ATOM  41005  CG2 ILE H   6     134.568 118.885 -27.899  1.00 24.24      HS8
ATOM  41006  CG1 ILE H   6     132.783 118.741 -29.652  1.00 24.24      HS8
ATOM  41007  CD1 ILE H   6     132.266 120.160 -29.491  1.00 24.24      HS8
ATOM  41008  C   ILE H   6     136.390 119.861 -29.596  1.00 20.68      HS8
ATOM  41009  O   ILE H   6     136.546 120.925 -28.989  1.00 20.68      HS8
ATOM  41010  N   ALA H   7     137.333 118.935 -29.684  1.00 27.50      HS8
ATOM  41011  CA  ALA H   7     138.623 119.163 -29.082  1.00 27.50      HS8
ATOM  41012  CB  ALA H   7     139.444 117.928 -29.148  1.00  2.26      HS8
ATOM  41013  C   ALA H   7     139.273 120.259 -29.889  1.00 27.50      HS8
ATOM  41014  O   ALA H   7     139.725 121.266 -29.338  1.00 27.50      HS8
ATOM  41015  N   ASP H   8     139.288 120.073 -31.205  1.00 24.62      HS8
ATOM  41016  CA  ASP H   8     139.903 121.054 -32.083  1.00 24.62      HS8
ATOM  41017  CB  ASP H   8     139.552 120.810 -33.540  1.00 48.56      HS8
ATOM  41018  CG  ASP H   8     140.151 121.859 -34.445  1.00 48.56      HS8
ATOM  41019  OD1 ASP H   8     141.349 122.168 -34.274  1.00 48.56      HS8
ATOM  41020  OD2 ASP H   8     139.433 122.375 -35.323  1.00 48.56      HS8
ATOM  41021  C   ASP H   8     139.496 122.454 -31.718  1.00 24.62      HS8
ATOM  41022  O   ASP H   8     140.307 123.377 -31.805  1.00 24.62      HS8
ATOM  41023  N   MET H   9     138.237 122.610 -31.323  1.00 32.88      HS8
ATOM  41024  CA  MET H   9     137.739 123.911 -30.917  1.00 32.88      HS8
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ATOM  41025  CB  MET H   9     136.226 123.910 -30.812  1.00 34.46      HS8
ATOM  41026  CG  MET H   9     135.690 125.091 -30.031  1.00 34.46      HS8
ATOM  41027  SD  MET H   9     133.974 125.420 -30.413  1.00 34.46      HS8
ATOM  41028  CE  MET H   9     133.167 124.077 -29.580  1.00 34.46      HS8
ATOM  41029  C   MET H   9     138.320 124.252 -29.563  1.00 32.88      HS8
ATOM  41030  O   MET H   9     139.055 125.229 -29.417  1.00 32.88      HS8
ATOM  41031  N   LEU H  10     137.984 123.441 -28.571  1.00 25.73      HS8
ATOM  41032  CA  LEU H  10     138.485 123.670 -27.228  1.00 25.73      HS8
ATOM  41033  CB  LEU H  10     138.332 122.398 -26.387  1.00 32.74      HS8
ATOM  41034  CG  LEU H  10     136.897 122.002 -26.027  1.00 32.74      HS8
ATOM  41035  CD1 LEU H  10     136.883 120.685 -25.303  1.00 32.74      HS8
ATOM  41036  CD2 LEU H  10     136.290 123.069 -25.155  1.00 32.74      HS8
ATOM  41037  C   LEU H  10     139.947 124.090 -27.297  1.00 25.73      HS8
ATOM  41038  O   LEU H  10     140.385 125.011 -26.606  1.00 25.73      HS8
ATOM  41039  N   THR H  11     140.696 123.423 -28.161  1.00 17.17      HS8
ATOM  41040  CA  THR H  11     142.110 123.724 -28.314  1.00 17.17      HS8
ATOM  41041  CB  THR H  11     142.801 122.615 -29.130  1.00 52.85      HS8
ATOM  41042  OG1 THR H  11     142.642 121.366 -28.449  1.00 52.85      HS8
ATOM  41043  CG2 THR H  11     144.278 122.897 -29.276  1.00 52.85      HS8
ATOM  41044  C   THR H  11     142.365 125.102 -28.954  1.00 17.17      HS8
ATOM  41045  O   THR H  11     143.139 125.904 -28.423  1.00 17.17      HS8
ATOM  41046  N   ARG H  12     141.725 125.373 -30.089  1.00 23.56      HS8
ATOM  41047  CA  ARG H  12     141.894 126.654 -30.751  1.00 23.56      HS8
ATOM  41048  CB  ARG H  12     140.876 126.812 -31.868  1.00 21.87      HS8
ATOM  41049  CG  ARG H  12     141.244 126.096 -33.148  1.00 21.87      HS8
ATOM  41050  CD  ARG H  12     139.999 125.584 -33.853  1.00 21.87      HS8
ATOM  41051  NE  ARG H  12     140.193 125.273 -35.268  1.00 21.87      HS8
ATOM  41052  CZ  ARG H  12     140.495 126.181 -36.185  1.00 21.87      HS8
ATOM  41053  NH1 ARG H  12     140.644 127.441 -35.823  1.00 21.87      HS8
ATOM  41054  NH2 ARG H  12     140.620 125.839 -37.458  1.00 21.87      HS8
ATOM  41055  C   ARG H  12     141.693 127.746 -29.725  1.00 23.56      HS8
ATOM  41056  O   ARG H  12     142.158 128.869 -29.906  1.00 23.56      HS8
ATOM  41057  N   ILE H  13     140.988 127.405 -28.646  1.00 16.71      HS8
ATOM  41058  CA  ILE H  13     140.721 128.333 -27.544  1.00 16.71      HS8
ATOM  41059  CB  ILE H  13     139.400 127.961 -26.822  1.00 14.49      HS8
ATOM  41060  CG2 ILE H  13     139.192 128.816 -25.584  1.00 14.49      HS8
ATOM  41061  CG1 ILE H  13     138.226 128.165 -27.765  1.00 14.49      HS8
ATOM  41062  CD1 ILE H  13     136.939 127.628 -27.211  1.00 14.49      HS8
ATOM  41063  C   ILE H  13     141.880 128.251 -26.545  1.00 16.71      HS8
ATOM  41064  O   ILE H  13     142.493 129.259 -26.186  1.00 16.71      HS8
ATOM  41065  N   ARG H  14     142.188 127.038 -26.110  1.00 36.51      HS8
ATOM  41066  CA  ARG H  14     143.268 126.864 -25.164  1.00 36.51      HS8
ATOM  41067  CB  ARG H  14     143.556 125.385 -24.920  1.00 44.96      HS8
ATOM  41068  CG  ARG H  14     144.348 125.134 -23.650  1.00 44.96      HS8
ATOM  41069  CD  ARG H  14     144.933 123.736 -23.572  1.00 44.96      HS8
ATOM  41070  NE  ARG H  14     143.951 122.671 -23.732  1.00 44.96      HS8
ATOM  41071  CZ  ARG H  14     143.500 122.236 -24.906  1.00 44.96      HS8
ATOM  41072  NH1 ARG H  14     143.939 122.777 -26.033  1.00 44.96      HS8
ATOM  41073  NH2 ARG H  14     142.621 121.240 -24.961  1.00 44.96      HS8
ATOM  41074  C   ARG H  14     144.499 127.526 -25.739  1.00 36.51      HS8
ATOM  41075  O   ARG H  14     145.362 127.976 -24.998  1.00 36.51      HS8
ATOM  41076  N   ASN H  15     144.584 127.592 -27.065  1.00 44.35      HS8
ATOM  41077  CA  ASN H  15     145.742 128.214 -27.706  1.00 44.35      HS8
ATOM  41078  CB  ASN H  15     145.955 127.646 -29.119  1.00 35.54      HS8
ATOM  41079  CG  ASN H  15     146.547 126.225 -29.113  1.00 35.54      HS8
ATOM  41080  OD1 ASN H  15     147.257 125.823 -28.185  1.00 35.54      HS8
ATOM  41081  ND2 ASN H  15     146.276 125.476 -30.173  1.00 35.54      HS8
ATOM  41082  C   ASN H  15     145.653 129.741 -27.757  1.00 44.35      HS8
ATOM  41083  O   ASN H  15     146.509 130.431 -27.214  1.00 44.35      HS8
ATOM  41084  N   ALA H  16     144.617 130.269 -28.398  1.00 23.77      HS8
ATOM  41085  CA  ALA H  16     144.443 131.721 -28.500  1.00 23.77      HS8
ATOM  41086  CB  ALA H  16     143.095 132.052 -29.167  1.00 11.57      HS8
ATOM  41087  C   ALA H  16     144.525 132.411 -27.139  1.00 23.77      HS8
ATOM  41088  O   ALA H  16     145.173 133.443 -26.983  1.00 23.77      HS8
ATOM  41089  N   THR H  17     143.862 131.837 -26.151  1.00 18.09      HS8
ATOM  41090  CA  THR H  17     143.875 132.442 -24.843  1.00 18.09      HS8
ATOM  41091  CB  THR H  17     143.050 131.617 -23.841  1.00 32.78      HS8
ATOM  41092  OG1 THR H  17     143.451 130.241 -23.875  1.00 32.78      HS8
ATOM  41093  CG2 THR H  17     141.583 131.714 -24.200  1.00 32.78      HS8
ATOM  41094  C   THR H  17     145.283 132.647 -24.328  1.00 18.09      HS8
ATOM  41095  O   THR H  17     145.556 133.676 -23.731  1.00 18.09      HS8
ATOM  41096  N   ARG H  18     146.182 131.694 -24.575  1.00 35.61      HS8
ATOM  41097  CA  ARG H  18     147.567 131.812 -24.109  1.00 35.61      HS8
ATOM  41098  CB  ARG H  18     148.307 130.489 -24.297  1.00 91.04      HS8
ATOM  41099  CG  ARG H  18     148.231 129.583 -23.096  1.00 91.04      HS8
ATOM  41100  CD  ARG H  18     146.794 129.378 -22.684  1.00 91.04      HS8
ATOM  41101  NE  ARG H  18     146.672 128.533 -21.500  1.00 91.04      HS8
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ATOM  41102  CZ  ARG H  18     145.517 128.216 -20.921  1.00 91.04       HS8
ATOM  41103  NH1 ARG H  18     144.369 128.675 -21.414  1.00 91.04       HS8
ATOM  41104  NH2 ARG H  18     145.510 127.437 -19.846  1.00 91.04       HS8
ATOM  41105  C   ARG H  18     148.363 132.942 -24.773  1.00 35.61       HS8
ATOM  41106  O   ARG H  18     149.254 133.534 -24.157  1.00 35.61       HS8
ATOM  41107  N   VAL H  19     148.063 133.230 -26.033  1.00 48.30       HS8
ATOM  41108  CA  VAL H  19     148.751 134.304 -26.730  1.00 48.30       HS8
ATOM  41109  CB  VAL H  19     148.956 133.973 -28.218  1.00120.28       HS8
ATOM  41110  CG1 VAL H  19     149.936 132.822 -28.362  1.00120.28       HS8
ATOM  41111  CG2 VAL H  19     147.628 133.616 -28.856  1.00120.28       HS8
ATOM  41112  C   VAL H  19     147.868 135.539 -26.593  1.00 48.30       HS8
ATOM  41113  O   VAL H  19     147.995 136.508 -27.341  1.00 48.30       HS8
ATOM  41114  N   TYR H  20     146.954 135.472 -25.630  1.00 23.03       HS8
ATOM  41115  CA  TYR H  20     146.029 136.555 -25.324  1.00 23.03       HS8
ATOM  41116  CB  TYR H  20     146.779 137.653 -24.585  1.00 24.10       HS8
ATOM  41117  CG  TYR H  20     147.176 137.234 -23.202  1.00 24.10       HS8
ATOM  41118  CD1 TYR H  20     146.305 137.389 -22.133  1.00 24.10       HS8
ATOM  41119  CE1 TYR H  20     146.626 136.929 -20.864  1.00 24.10       HS8
ATOM  41120  CD2 TYR H  20     148.388 136.615 -22.974  1.00 24.10       HS8
ATOM  41121  CE2 TYR H  20     148.724 136.151 -21.713  1.00 24.10       HS8
ATOM  41122  CZ  TYR H  20     147.837 136.303 -20.658  1.00 24.10       HS8
ATOM  41123  OH  TYR H  20     148.148 135.773 -19.418  1.00 24.10       HS8
ATOM  41124  C   TYR H  20     145.227 137.164 -26.464  1.00 23.03       HS8
ATOM  41125  O   TYR H  20     144.868 138.329 -26.394  1.00 23.03       HS8
ATOM  41126  N   LYS H  21     144.933 136.379 -27.497  1.00 26.13       HS8
ATOM  41127  CA  LYS H  21     144.140 136.851 -28.636  1.00 26.13       HS8
ATOM  41128  CB  LYS H  21     143.729 135.660 -29.500  1.00 58.88       HS8
ATOM  41129  CG  LYS H  21     144.861 135.034 -30.271  1.00 58.88       HS8
ATOM  41130  CD  LYS H  21     145.375 136.012 -31.299  1.00 58.88       HS8
ATOM  41131  CE  LYS H  21     146.368 135.378 -32.246  1.00 58.88       HS8
ATOM  41132  NZ  LYS H  21     146.636 136.290 -33.399  1.00 58.88       HS8
ATOM  41133  C   LYS H  21     142.871 137.596 -28.185  1.00 26.13       HS8
ATOM  41134  O   LYS H  21     142.432 137.447 -27.047  1.00 26.13       HS8
ATOM  41135  N   GLU H  22     142.286 138.410 -29.058  1.00 58.27       HS8
ATOM  41136  CA  GLU H  22     141.063 139.107 -28.677  1.00 58.27       HS8
ATOM  41137  CB  GLU H  22     140.941 140.456 -29.380  1.00178.28       HS8
ATOM  41138  CG  GLU H  22     139.714 141.226 -28.925  1.00178.28       HS8
ATOM  41139  CD  GLU H  22     139.616 142.606 -29.532  1.00178.28       HS8
ATOM  41140  OE1 GLU H  22     139.522 142.711 -30.774  1.00178.28       HS8
ATOM  41141  OE2 GLU H  22     139.631 143.590 -28.763  1.00178.28       HS8
ATOM  41142  C   GLU H  22     139.885 138.212 -29.058  1.00 58.27       HS8
ATOM  41143  O   GLU H  22     138.966 137.996 -28.261  1.00 58.27       HS8
ATOM  41144  N   SER H  23     139.916 137.696 -30.284  1.00 40.57       HS8
ATOM  41145  CA  SER H  23     138.881 136.793 -30.764  1.00 40.57       HS8
ATOM  41146  CB  SER H  23     138.103 137.416 -31.925  1.00 44.14       HS8
ATOM  41147  OG  SER H  23     138.846 137.373 -33.128  1.00 44.14       HS8
ATOM  41148  C   SER H  23     139.606 135.534 -31.230  1.00 40.57       HS8
ATOM  41149  O   SER H  23     140.752 135.307 -30.853  1.00 40.57       HS8
ATOM  41150  N   THR H  24     138.938 134.715 -32.037  1.00 32.86       HS8
ATOM  41151  CA  THR H  24     139.510 133.475 -32.567  1.00 32.86       HS8
ATOM  41152  CB  THR H  24     140.000 132.538 -31.449  1.00 48.33       HS8
ATOM  41153  OG1 THR H  24     139.787 131.179 -31.846  1.00 48.33       HS8
ATOM  41154  CG2 THR H  24     139.256 132.791 -30.161  1.00 48.33       HS8
ATOM  41155  C   THR H  24     138.442 132.738 -33.361  1.00 32.86       HS8
ATOM  41156  O   THR H  24     137.343 132.524 -32.867  1.00 32.86       HS8
ATOM  41157  N   ASP H  25     138.757 132.337 -34.583  1.00 25.23       HS8
ATOM  41158  CA  ASP H  25     137.768 131.656 -35.402  1.00 25.23       HS8
ATOM  41159  CB  ASP H  25     137.908 132.124 -36.845  1.00 82.48       HS8
ATOM  41160  CG  ASP H  25     137.674 133.605 -36.987  1.00 82.48       HS8
ATOM  41161  OD1 ASP H  25     138.141 134.360 -36.108  1.00 82.48       HS8
ATOM  41162  OD2 ASP H  25     137.031 134.019 -37.972  1.00 82.48       HS8
ATOM  41163  C   ASP H  25     137.826 130.134 -35.354  1.00 25.23       HS8
ATOM  41164  O   ASP H  25     138.898 129.558 -35.241  1.00 25.23       HS8
ATOM  41165  N   VAL H  26     136.661 129.488 -35.402  1.00 47.77       HS8
ATOM  41166  CA  VAL H  26     136.585 128.027 -35.425  1.00 47.77       HS8
ATOM  41167  CB  VAL H  26     136.364 127.372 -34.009  1.00 15.35       HS8
ATOM  41168  CG1 VAL H  26     136.963 128.230 -32.917  1.00 15.35       HS8
ATOM  41169  CG2 VAL H  26     134.913 127.106 -33.766  1.00 15.35       HS8
ATOM  41170  C   VAL H  26     135.421 127.672 -36.344  1.00 47.77       HS8
ATOM  41171  O   VAL H  26     134.376 128.326 -36.320  1.00 47.77       HS8
ATOM  41172  N   PRO H  27     135.599 126.637 -37.177  1.00 38.90       HS8
ATOM  41173  CD  PRO H  27     136.768 125.751 -37.168  1.00 48.86       HS8
ATOM  41174  CA  PRO H  27     134.608 126.151 -38.134  1.00 38.90       HS8
ATOM  41175  CB  PRO H  27     135.254 124.893 -38.687  1.00 48.86       HS8
ATOM  41176  CG  PRO H  27     136.703 125.161 -38.536  1.00 48.86       HS8
ATOM  41177  C   PRO H  27     133.318 125.847 -37.416  1.00 38.90       HS8
ATOM  41178  O   PRO H  27     133.316 125.086 -36.447  1.00 38.90       HS8
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ATOM  41179  N   ALA H  28     132.225 126.426 -37.905  1.00 32.83      HS8
ATOM  41180  CA  ALA H  28     130.916 126.254 -37.290  1.00 32.83      HS8
ATOM  41181  CB  ALA H  28     129.970 127.315 -37.826  1.00104.22      HS8
ATOM  41182  C   ALA H  28     130.276 124.872 -37.427  1.00 32.83      HS8
ATOM  41183  O   ALA H  28     130.423 124.195 -38.448  1.00 32.83      HS8
ATOM  41184  N   SER H  29     129.561 124.482 -36.371  1.00 40.30      HS8
ATOM  41185  CA  SER H  29     128.823 123.220 -36.275  1.00 40.30      HS8
ATOM  41186  CB  SER H  29     129.726 122.074 -35.840  1.00 56.32      HS8
ATOM  41187  OG  SER H  29     129.805 122.011 -34.425  1.00 56.32      HS8
ATOM  41188  C   SER H  29     127.811 123.452 -35.166  1.00 40.30      HS8
ATOM  41189  O   SER H  29     128.150 124.045 -34.134  1.00 40.30      HS8
ATOM  41190  N   ARG H  30     126.578 122.996 -35.356  1.00 34.71      HS8
ATOM  41191  CA  ARG H  30     125.566 123.188 -34.315  1.00 34.71      HS8
ATOM  41192  CB  ARG H  30     124.368 122.252 -34.527  1.00101.99      HS8
ATOM  41193  CG  ARG H  30     123.435 122.596 -35.681  1.00101.99      HS8
ATOM  41194  CD  ARG H  30     122.575 123.823 -35.403  1.00101.99      HS8
ATOM  41195  NE  ARG H  30     121.491 123.940 -36.381  1.00101.99      HS8
ATOM  41196  CZ  ARG H  30     120.709 125.008 -36.527  1.00101.99      HS8
ATOM  41197  NH1 ARG H  30     120.878 126.077 -35.758  1.00101.99      HS8
ATOM  41198  NH2 ARG H  30     119.754 125.007 -37.451  1.00101.99      HS8
ATOM  41199  C   ARG H  30     126.174 122.898 -32.940  1.00 34.71      HS8
ATOM  41200  O   ARG H  30     126.205 123.768 -32.071  1.00 34.71      HS8
ATOM  41201  N   PHE H  31     126.674 121.670 -32.772  1.00 21.57      HS8
ATOM  41202  CA  PHE H  31     127.261 121.210 -31.515  1.00 21.57      HS8
ATOM  41203  CB  PHE H  31     127.946 119.849 -31.728  1.00 30.02      HS8
ATOM  41204  CG  PHE H  31     128.308 119.122 -30.444  1.00 30.02      HS8
ATOM  41205  CD1 PHE H  31     127.545 119.259 -29.303  1.00 30.02      HS8
ATOM  41206  CD2 PHE H  31     129.395 118.266 -30.399  1.00 30.02      HS8
ATOM  41207  CE1 PHE H  31     127.861 118.555 -28.144  1.00 30.02      HS8
ATOM  41208  CE2 PHE H  31     129.708 117.564 -29.241  1.00 30.02      HS8
ATOM  41209  CZ  PHE H  31     128.938 117.713 -28.119  1.00 30.02      HS8
ATOM  41210  C   PHE H  31     128.234 122.216 -30.927  1.00 21.57      HS8
ATOM  41211  O   PHE H  31     128.153 122.541 -29.745  1.00 21.57      HS8
ATOM  41212  N   LYS H  32     129.142 122.724 -31.753  1.00 22.34      HS8
ATOM  41213  CA  LYS H  32     130.106 123.696 -31.272  1.00 22.34      HS8
ATOM  41214  CB  LYS H  32     131.016 124.135 -32.419  1.00 46.79      HS8
ATOM  41215  CG  LYS H  32     132.091 123.096 -32.773  1.00 46.79      HS8
ATOM  41216  CD  LYS H  32     132.741 123.397 -34.127  1.00 46.79      HS8
ATOM  41217  CE  LYS H  32     133.869 122.418 -34.479  1.00 46.79      HS8
ATOM  41218  NZ  LYS H  32     134.251 122.453 -35.933  1.00 46.79      HS8
ATOM  41219  C   LYS H  32     129.365 124.871 -30.639  1.00 22.34      HS8
ATOM  41220  O   LYS H  32     129.601 125.198 -29.468  1.00 22.34      HS8
ATOM  41221  N   GLU H  33     128.456 125.488 -31.399  1.00 34.15      HS8
ATOM  41222  CA  GLU H  33     127.657 126.606 -30.884  1.00 34.15      HS8
ATOM  41223  CB  GLU H  33     126.489 126.929 -31.817  1.00 71.78      HS8
ATOM  41224  CG  GLU H  33     126.803 127.757 -33.042  1.00 71.78      HS8
ATOM  41225  CD  GLU H  33     125.531 128.307 -33.687  1.00 71.78      HS8
ATOM  41226  OE1 GLU H  33     124.704 127.508 -34.180  1.00 71.78      HS8
ATOM  41227  OE2 GLU H  33     125.347 129.545 -33.690  1.00 71.78      HS8
ATOM  41228  C   GLU H  33     127.077 126.176 -29.540  1.00 34.15      HS8
ATOM  41229  O   GLU H  33     127.136 126.915 -28.557  1.00 34.15      HS8
ATOM  41230  N   GLU H  34     126.509 124.969 -29.523  1.00 28.57      HS8
ATOM  41231  CA  GLU H  34     125.909 124.391 -28.328  1.00 28.57      HS8
ATOM  41232  CB  GLU H  34     125.632 122.903 -28.543  1.00160.79      HS8
ATOM  41233  CG  GLU H  34     124.484 122.623 -29.484  1.00160.79      HS8
ATOM  41234  CD  GLU H  34     123.152 123.010 -28.885  1.00160.79      HS8
ATOM  41235  OE1 GLU H  34     122.991 124.189 -28.504  1.00160.79      HS8
ATOM  41236  OE2 GLU H  34     122.269 122.131 -28.794  1.00160.79      HS8
ATOM  41237  C   GLU H  34     126.827 124.570 -27.131  1.00 28.57      HS8
ATOM  41238  O   GLU H  34     126.421 125.127 -26.115  1.00 28.57      HS8
ATOM  41239  N   ILE H  35     128.067 124.098 -27.257  1.00 35.78      HS8
ATOM  41240  CA  ILE H  35     129.051 124.208 -26.182  1.00 35.78      HS8
ATOM  41241  CB  ILE H  35     130.357 123.478 -26.553  1.00 35.91      HS8
ATOM  41242  CG2 ILE H  35     131.435 123.779 -25.552  1.00 35.91      HS8
ATOM  41243  CG1 ILE H  35     130.125 121.975 -26.562  1.00 35.91      HS8
ATOM  41244  CD1 ILE H  35     129.492 121.467 -27.815  1.00 35.91      HS8
ATOM  41245  C   ILE H  35     129.354 125.676 -25.916  1.00 35.78      HS8
ATOM  41246  O   ILE H  35     129.311 126.147 -24.772  1.00 35.78      HS8
ATOM  41247  N   LEU H  36     129.662 126.392 -26.986  1.00 30.04      HS8
ATOM  41248  CA  LEU H  36     129.951 127.802 -26.879  1.00 30.04      HS8
ATOM  41249  CB  LEU H  36     129.945 128.431 -28.262  1.00 25.51      HS8
ATOM  41250  CG  LEU H  36     131.158 128.077 -29.106  1.00 25.51      HS8
ATOM  41251  CD1 LEU H  36     130.932 128.460 -30.562  1.00 25.51      HS8
ATOM  41252  CD2 LEU H  36     132.373 128.791 -28.514  1.00 25.51      HS8
ATOM  41253  C   LEU H  36     128.920 128.494 -25.996  1.00 30.04      HS8
ATOM  41254  O   LEU H  36     129.301 129.189 -25.037  1.00 30.04      HS8
ATOM  41255  N   ARG H  37     127.629 128.290 -26.321  1.00 31.57      HS8
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ATOM  41256  CA  ARG H  37     126.502 128.885 -25.585  1.00 31.57       HS8
ATOM  41257  CB  ARG H  37     125.166 128.216 -25.989  1.00 79.20       HS8
ATOM  41258  CG  ARG H  37     124.030 129.215 -26.328  1.00 79.20       HS8
ATOM  41259  CD  ARG H  37     122.693 128.564 -26.774  1.00 79.20       HS8
ATOM  41260  NE  ARG H  37     121.782 129.550 -27.389  1.00 79.20       HS8
ATOM  41261  CZ  ARG H  37     120.591 129.280 -27.944  1.00 79.20       HS8
ATOM  41262  NH1 ARG H  37     120.121 128.040 -27.975  1.00 79.20       HS8
ATOM  41263  NH2 ARG H  37     119.865 130.251 -28.492  1.00 79.20       HS8
ATOM  41264  C   ARG H  37     126.740 128.776 -24.068  1.00 31.57       HS8
ATOM  41265  O   ARG H  37     126.486 129.724 -23.321  1.00 31.57       HS8
ATOM  41266  N   ILE H  38     127.254 127.631 -23.620  1.00 26.74       HS8
ATOM  41267  CA  ILE H  38     127.550 127.431 -22.207  1.00 26.74       HS8
ATOM  41268  CB  ILE H  38     127.891 125.971 -21.883  1.00 26.57       HS8
ATOM  41269  CG2 ILE H  38     128.510 125.873 -20.502  1.00 26.57       HS8
ATOM  41270  CG1 ILE H  38     126.634 125.121 -21.935  1.00 26.57       HS8
ATOM  41271  CD1 ILE H  38     126.075 124.992 -23.314  1.00 26.57       HS8
ATOM  41272  C   ILE H  38     128.756 128.262 -21.822  1.00 26.74       HS8
ATOM  41273  O   ILE H  38     128.750 128.944 -20.795  1.00 26.74       HS8
ATOM  41274  N   LEU H  39     129.803 128.183 -22.636  1.00 36.97       HS8
ATOM  41275  CA  LEU H  39     130.999 128.947 -22.344  1.00 36.97       HS8
ATOM  41276  CB  LEU H  39     131.977 128.889 -23.514  1.00 30.84       HS8
ATOM  41277  CG  LEU H  39     132.816 127.617 -23.602  1.00 30.84       HS8
ATOM  41278  CD1 LEU H  39     133.569 127.376 -22.304  1.00 30.84       HS8
ATOM  41279  CD2 LEU H  39     131.897 126.473 -23.878  1.00 30.84       HS8
ATOM  41280  C   LEU H  39     130.618 130.389 -22.047  1.00 36.97       HS8
ATOM  41281  O   LEU H  39     131.050 130.971 -21.049  1.00 36.97       HS8
ATOM  41282  N   ALA H  40     129.797 130.962 -22.915  1.00 52.30       HS8
ATOM  41283  CA  ALA H  40     129.357 132.330 -22.714  1.00 52.30       HS8
ATOM  41284  CB  ALA H  40     128.476 132.765 -23.870  1.00189.11       HS8
ATOM  41285  C   ALA H  40     128.588 132.435 -21.395  1.00 52.30       HS8
ATOM  41286  O   ALA H  40     129.021 133.117 -20.473  1.00 52.30       HS8
ATOM  41287  N   ARG H  41     127.452 131.742 -21.319  1.00 33.07       HS8
ATOM  41288  CA  ARG H  41     126.589 131.739 -20.136  1.00 33.07       HS8
ATOM  41289  CB  ARG H  41     125.585 130.588 -20.245  1.00 79.79       HS8
ATOM  41290  CG  ARG H  41     124.425 130.630 -19.266  1.00 79.79       HS8
ATOM  41291  CD  ARG H  41     123.693 129.286 -19.246  1.00 79.79       HS8
ATOM  41292  NE  ARG H  41     123.340 128.811 -20.586  1.00 79.79       HS8
ATOM  41293  CZ  ARG H  41     122.842 127.603 -20.853  1.00 79.79       HS8
ATOM  41294  NH1 ARG H  41     122.630 126.734 -19.872  1.00 79.79       HS8
ATOM  41295  NH2 ARG H  41     122.564 127.253 -22.106  1.00 79.79       HS8
ATOM  41296  C   ARG H  41     127.368 131.623 -18.824  1.00 33.07       HS8
ATOM  41297  O   ARG H  41     127.138 132.380 -17.892  1.00 33.07       HS8
ATOM  41298  N   GLU H  42     128.292 130.673 -18.745  1.00 31.96       HS8
ATOM  41299  CA  GLU H  42     129.057 130.506 -17.522  1.00 31.96       HS8
ATOM  41300  CB  GLU H  42     129.691 129.122 -17.480  1.00 90.47       HS8
ATOM  41301  CG  GLU H  42     128.716 128.031 -17.098  1.00 90.47       HS8
ATOM  41302  CD  GLU H  42     128.004 128.327 -15.788  1.00 90.47       HS8
ATOM  41303  OE1 GLU H  42     128.685 128.711 -14.811  1.00 90.47       HS8
ATOM  41304  OE2 GLU H  42     126.765 128.168 -15.731  1.00 90.47       HS8
ATOM  41305  C   GLU H  42     130.117 131.582 -17.427  1.00 31.96       HS8
ATOM  41306  O   GLU H  42     130.937 131.600 -16.507  1.00 31.96       HS8
ATOM  41307  N   GLY H  43     130.096 132.475 -18.404  1.00 42.38       HS8
ATOM  41308  CA  GLY H  43     131.030 133.579 -18.423  1.00 42.38       HS8
ATOM  41309  C   GLY H  43     132.503 133.269 -18.569  1.00 42.38       HS8
ATOM  41310  O   GLY H  43     133.318 133.897 -17.899  1.00 42.38       HS8
ATOM  41311  N   PHE H  44     132.856 132.316 -19.429  1.00 38.79       HS8
ATOM  41312  CA  PHE H  44     134.259 131.993 -19.644  1.00 38.79       HS8
ATOM  41313  CB  PHE H  44     134.455 130.507 -19.896  1.00 25.00       HS8
ATOM  41314  CG  PHE H  44     134.420 129.695 -18.658  1.00 25.00       HS8
ATOM  41315  CD1 PHE H  44     135.232 130.020 -17.590  1.00 25.00       HS8
ATOM  41316  CD2 PHE H  44     133.572 128.612 -18.544  1.00 25.00       HS8
ATOM  41317  CE1 PHE H  44     135.205 129.277 -16.412  1.00 25.00       HS8
ATOM  41318  CE2 PHE H  44     133.538 127.862 -17.367  1.00 25.00       HS8
ATOM  41319  CZ  PHE H  44     134.362 128.202 -16.300  1.00 25.00       HS8
ATOM  41320  C   PHE H  44     134.738 132.775 -20.829  1.00 38.79       HS8
ATOM  41321  O   PHE H  44     135.926 132.994 -21.004  1.00 38.79       HS8
ATOM  41322  N   ILE H  45     133.805 133.199 -21.657  1.00 14.56       HS8
ATOM  41323  CA  ILE H  45     134.180 133.984 -22.807  1.00 14.56       HS8
ATOM  41324  CB  ILE H  45     134.055 133.163 -24.082  1.00  6.56       HS8
ATOM  41325  CG2 ILE H  45     134.946 131.955 -23.997  1.00  6.56       HS8
ATOM  41326  CG1 ILE H  45     132.615 132.731 -24.284  1.00  6.56       HS8
ATOM  41327  CD1 ILE H  45     132.435 131.906 -25.522  1.00  6.56       HS8
ATOM  41328  C   ILE H  45     133.328 135.248 -22.924  1.00 14.56       HS8
ATOM  41329  O   ILE H  45     132.159 135.261 -22.545  1.00 14.56       HS8
ATOM  41330  N   LYS H  46     133.917 136.326 -23.424  1.00 96.98       HS8
ATOM  41331  CA  LYS H  46     133.157 137.557 -23.578  1.00 96.98       HS8
ATOM  41332  CB  LYS H  46     133.962 138.591 -24.368  1.00 90.46       HS8
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ATOM  41333  CG  LYS H  46     134.784 139.541 -23.512  1.00 90.46      HS8
ATOM  41334  CD  LYS H  46     135.606 140.491 -24.379  1.00 90.46      HS8
ATOM  41335  CE  LYS H  46     136.199 141.631 -23.557  1.00 90.46      HS8
ATOM  41336  NZ  LYS H  46     137.080 141.163 -22.443  1.00 90.46      HS8
ATOM  41337  C   LYS H  46     131.870 137.225 -24.324  1.00 96.98      HS8
ATOM  41338  O   LYS H  46     130.831 137.838 -24.104  1.00 96.98      HS8
ATOM  41339  N   GLY H  47     131.955 136.222 -25.187  1.00 27.65      HS8
ATOM  41340  CA  GLY H  47     130.818 135.807 -25.983  1.00 27.65      HS8
ATOM  41341  C   GLY H  47     131.371 135.309 -27.304  1.00 27.65      HS8
ATOM  41342  O   GLY H  47     132.574 135.032 -27.398  1.00 27.65      HS8
ATOM  41343  N   TYR H  48     130.534 135.208 -28.332  1.00 20.80      HS8
ATOM  41344  CA  TYR H  48     131.017 134.722 -29.617  1.00 20.80      HS8
ATOM  41345  CB  TYR H  48     131.239 133.224 -29.540  1.00 43.50      HS8
ATOM  41346  CG  TYR H  48     129.966 132.494 -29.873  1.00 43.50      HS8
ATOM  41347  CD1 TYR H  48     129.612 132.267 -31.204  1.00 43.50      HS8
ATOM  41348  CE1 TYR H  48     128.386 131.741 -31.539  1.00 43.50      HS8
ATOM  41349  CD2 TYR H  48     129.049 132.158 -28.877  1.00 43.50      HS8
ATOM  41350  CE2 TYR H  48     127.809 131.625 -29.201  1.00 43.50      HS8
ATOM  41351  CZ  TYR H  48     127.482 131.421 -30.544  1.00 43.50      HS8
ATOM  41352  OH  TYR H  48     126.247 130.911 -30.913  1.00 43.50      HS8
ATOM  41353  C   TYR H  48     129.917 134.969 -30.627  1.00 20.80      HS8
ATOM  41354  O   TYR H  48     128.756 134.938 -30.246  1.00 20.80      HS8
ATOM  41355  N   GLU H  49     130.259 135.154 -31.905  1.00 28.46      HS8
ATOM  41356  CA  GLU H  49     129.255 135.381 -32.951  1.00 28.46      HS8
ATOM  41357  CB  GLU H  49     129.188 136.863 -33.313  1.00138.75      HS8
ATOM  41358  CG  GLU H  49     130.464 137.393 -33.924  1.00138.75      HS8
ATOM  41359  CD  GLU H  49     130.299 138.782 -34.497  1.00138.75      HS8
ATOM  41360  OE1 GLU H  49     129.406 138.961 -35.352  1.00138.75      HS8
ATOM  41361  OE2 GLU H  49     131.061 139.691 -34.098  1.00138.75      HS8
ATOM  41362  C   GLU H  49     129.540 134.567 -34.218  1.00 28.46      HS8
ATOM  41363  O   GLU H  49     130.675 134.170 -34.474  1.00 28.46      HS8
ATOM  41364  N   ARG H  50     128.499 134.325 -35.012  1.00 44.88      HS8
ATOM  41365  CA  ARG H  50     128.624 133.557 -36.248  1.00 44.88      HS8
ATOM  41366  CB  ARG H  50     127.250 133.052 -36.681  1.00103.04      HS8
ATOM  41367  CG  ARG H  50     126.354 132.667 -35.516  1.00103.04      HS8
ATOM  41368  CD  ARG H  50     124.972 132.242 -35.980  1.00103.04      HS8
ATOM  41369  NE  ARG H  50     124.986 130.941 -36.642  1.00103.04      HS8
ATOM  41370  CZ  ARG H  50     123.933 130.394 -37.243  1.00103.04      HS8
ATOM  41371  NH1 ARG H  50     122.772 131.037 -37.273  1.00103.04      HS8
ATOM  41372  NH2 ARG H  50     124.040 129.200 -37.812  1.00103.04      HS8
ATOM  41373  C   ARG H  50     129.183 134.479 -37.313  1.00 44.88      HS8
ATOM  41374  O   ARG H  50     128.682 135.584 -37.481  1.00 44.88      HS8
ATOM  41375  N   VAL H  51     130.216 134.039 -38.029  1.00 58.11      HS8
ATOM  41376  CA  VAL H  51     130.831 134.857 -39.077  1.00 58.11      HS8
ATOM  41377  CB  VAL H  51     132.047 135.618 -38.531  1.00 61.87      HS8
ATOM  41378  CG1 VAL H  51     132.989 135.988 -39.656  1.00 61.87      HS8
ATOM  41379  CG2 VAL H  51     131.582 136.877 -37.830  1.00 61.87      HS8
ATOM  41380  C   VAL H  51     131.275 134.039 -40.278  1.00 58.11      HS8
ATOM  41381  O   VAL H  51     131.670 132.886 -40.130  1.00 58.11      HS8
ATOM  41382  N   ASP H  52     131.225 134.644 -41.465  1.00 44.81      HS8
ATOM  41383  CA  ASP H  52     131.623 133.961 -42.699  1.00 44.81      HS8
ATOM  41384  CB  ASP H  52     130.579 134.184 -43.794  1.00100.78      HS8
ATOM  41385  CG  ASP H  52     129.556 133.070 -43.853  1.00100.78      HS8
ATOM  41386  OD1 ASP H  52     128.931 132.774 -42.812  1.00100.78      HS8
ATOM  41387  OD2 ASP H  52     129.379 132.488 -44.943  1.00100.78      HS8
ATOM  41388  C   ASP H  52     133.000 134.337 -43.233  1.00 44.81      HS8
ATOM  41389  O   ASP H  52     133.175 135.354 -43.905  1.00 44.81      HS8
ATOM  41390  N   VAL H  53     133.968 133.475 -42.940  1.00 52.01      HS8
ATOM  41391  CA  VAL H  53     135.352 133.649 -43.357  1.00 52.01      HS8
ATOM  41392  CB  VAL H  53     136.297 133.203 -42.240  1.00 36.26      HS8
ATOM  41393  CG1 VAL H  53     137.600 132.699 -42.811  1.00 36.26      HS8
ATOM  41394  CG2 VAL H  53     136.551 134.370 -41.320  1.00 36.26      HS8
ATOM  41395  C   VAL H  53     135.703 132.892 -44.633  1.00 52.01      HS8
ATOM  41396  O   VAL H  53     135.736 131.662 -44.657  1.00 52.01      HS8
ATOM  41397  N   ASP H  54     135.982 133.647 -45.686  1.00 66.11      HS8
ATOM  41398  CA  ASP H  54     136.339 133.073 -46.973  1.00 66.11      HS8
ATOM  41399  CB  ASP H  54     137.559 132.153 -46.827  1.00201.26      HS8
ATOM  41400  CG  ASP H  54     138.040 131.600 -48.160  1.00201.26      HS8
ATOM  41401  OD1 ASP H  54     138.337 132.405 -49.069  1.00201.26      HS8
ATOM  41402  OD2 ASP H  54     138.124 130.360 -48.299  1.00201.26      HS8
ATOM  41403  C   ASP H  54     135.168 132.304 -47.573  1.00 66.11      HS8
ATOM  41404  O   ASP H  54     135.363 131.401 -48.381  1.00 66.11      HS8
ATOM  41405  N   GLY H  55     133.950 132.662 -47.180  1.00 78.59      HS8
ATOM  41406  CA  GLY H  55     132.783 131.987 -47.724  1.00 78.59      HS8
ATOM  41407  C   GLY H  55     132.318 130.798 -46.909  1.00 78.59      HS8
ATOM  41408  O   GLY H  55     131.206 130.304 -47.089  1.00 78.59      HS8
ATOM  41409  N   LYS H  56     133.181 130.320 -46.023  1.00 59.39      HS8
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ATOM  41410  CA  LYS H  56     132.835 129.204 -45.166  1.00 59.39      HS8
ATOM  41411  CB  LYS H  56     133.970 128.180 -45.122  1.00101.11      HS8
ATOM  41412  CG  LYS H  56     134.138 127.376 -46.403  1.00101.11      HS8
ATOM  41413  CD  LYS H  56     134.559 128.251 -47.566  1.00101.11      HS8
ATOM  41414  CE  LYS H  56     134.753 127.438 -48.836  1.00101.11      HS8
ATOM  41415  NZ  LYS H  56     135.181 128.303 -49.978  1.00101.11      HS8
ATOM  41416  C   LYS H  56     132.556 129.758 -43.772  1.00 59.39      HS8
ATOM  41417  O   LYS H  56     133.223 130.676 -43.304  1.00 59.39      HS8
ATOM  41418  N   PRO H  57     131.552 129.205 -43.098  1.00 31.65      HS8
ATOM  41419  CD  PRO H  57     130.724 128.156 -43.696  1.00 17.52      HS8
ATOM  41420  CA  PRO H  57     131.062 129.534 -41.758  1.00 31.65      HS8
ATOM  41421  CB  PRO H  57     129.753 128.788 -41.706  1.00 17.52      HS8
ATOM  41422  CG  PRO H  57     130.084 127.569 -42.497  1.00 17.52      HS8
ATOM  41423  C   PRO H  57     131.952 129.180 -40.564  1.00 31.65      HS8
ATOM  41424  O   PRO H  57     132.326 128.018 -40.370  1.00 31.65      HS8
ATOM  41425  N   TYR H  58     132.255 130.192 -39.754  1.00 20.20      HS8
ATOM  41426  CA  TYR H  58     133.082 130.027 -38.568  1.00 20.20      HS8
ATOM  41427  CB  TYR H  58     134.425 130.711 -38.753  1.00 53.54      HS8
ATOM  41428  CG  TYR H  58     135.303 129.980 -39.703  1.00 53.54      HS8
ATOM  41429  CD1 TYR H  58     135.002 129.939 -41.053  1.00 53.54      HS8
ATOM  41430  CE1 TYR H  58     135.775 129.203 -41.935  1.00 53.54      HS8
ATOM  41431  CD2 TYR H  58     136.405 129.271 -39.246  1.00 53.54      HS8
ATOM  41432  CE2 TYR H  58     137.189 128.528 -40.116  1.00 53.54      HS8
ATOM  41433  CZ  TYR H  58     136.870 128.496 -41.465  1.00 53.54      HS8
ATOM  41434  OH  TYR H  58     137.646 127.769 -42.346  1.00 53.54      HS8
ATOM  41435  C   TYR H  58     132.394 130.624 -37.376  1.00 20.20      HS8
ATOM  41436  O   TYR H  58     131.218 130.924 -37.433  1.00 20.20      HS8
ATOM  41437  N   LEU H  59     133.136 130.811 -36.296  1.00 32.26      HS8
ATOM  41438  CA  LEU H  59     132.559 131.378 -35.094  1.00 32.26      HS8
ATOM  41439  CB  LEU H  59     132.053 130.254 -34.180  1.00 26.38      HS8
ATOM  41440  CG  LEU H  59     130.854 129.405 -34.636  1.00 26.38      HS8
ATOM  41441  CD1 LEU H  59     130.763 128.109 -33.852  1.00 26.38      HS8
ATOM  41442  CD2 LEU H  59     129.590 130.206 -34.459  1.00 26.38      HS8
ATOM  41443  C   LEU H  59     133.574 132.214 -34.334  1.00 32.26      HS8
ATOM  41444  O   LEU H  59     134.382 131.651 -33.595  1.00 32.26      HS8
ATOM  41445  N   ARG H  60     133.553 133.540 -34.514  1.00 16.59      HS8
ATOM  41446  CA  ARG H  60     134.481 134.400 -33.776  1.00 16.59      HS8
ATOM  41447  CB  ARG H  60     134.196 135.880 -33.991  1.00 62.90      HS8
ATOM  41448  CG  ARG H  60     134.626 136.410 -35.312  1.00 62.90      HS8
ATOM  41449  CD  ARG H  60     136.118 136.550 -35.407  1.00 62.90      HS8
ATOM  41450  NE  ARG H  60     136.483 136.611 -36.813  1.00 62.90      HS8
ATOM  41451  CZ  ARG H  60     135.989 137.497 -37.674  1.00 62.90      HS8
ATOM  41452  NH1 ARG H  60     135.111 138.409 -37.272  1.00 62.90      HS8
ATOM  41453  NH2 ARG H  60     136.353 137.455 -38.949  1.00 62.90      HS8
ATOM  41454  C   ARG H  60     134.192 134.077 -32.341  1.00 16.59      HS8
ATOM  41455  O   ARG H  60     133.053 133.813 -31.981  1.00 16.59      HS8
ATOM  41456  N   VAL H  61     135.213 134.083 -31.513  1.00 40.42      HS8
ATOM  41457  CA  VAL H  61     135.004 133.769 -30.123  1.00 40.42      HS8
ATOM  41458  CB  VAL H  61     135.539 132.381 -29.805  1.00  2.26      HS8
ATOM  41459  CG1 VAL H  61     135.516 132.136 -28.298  1.00  2.26      HS8
ATOM  41460  CG2 VAL H  61     134.710 131.350 -30.552  1.00  2.26      HS8
ATOM  41461  C   VAL H  61     135.767 134.803 -29.362  1.00 40.42      HS8
ATOM  41462  O   VAL H  61     136.993 134.826 -29.413  1.00 40.42      HS8
ATOM  41463  N   TYR H  62     135.049 135.669 -28.664  1.00 14.30      HS8
ATOM  41464  CA  TYR H  62     135.713 136.723 -27.921  1.00 14.30      HS8
ATOM  41465  CB  TYR H  62     134.775 137.915 -27.866  1.00 29.77      HS8
ATOM  41466  CG  TYR H  62     134.434 138.366 -29.268  1.00 29.77      HS8
ATOM  41467  CD1 TYR H  62     135.227 139.290 -29.926  1.00 29.77      HS8
ATOM  41468  CE1 TYR H  62     134.992 139.630 -31.253  1.00 29.77      HS8
ATOM  41469  CD2 TYR H  62     133.385 137.792 -29.972  1.00 29.77      HS8
ATOM  41470  CE2 TYR H  62     133.139 138.126 -31.297  1.00 29.77      HS8
ATOM  41471  CZ  TYR H  62     133.950 139.046 -31.936  1.00 29.77      HS8
ATOM  41472  OH  TYR H  62     133.745 139.382 -33.261  1.00 29.77      HS8
ATOM  41473  C   TYR H  62     136.177 136.250 -26.551  1.00 14.30      HS8
ATOM  41474  O   TYR H  62     135.374 135.931 -25.677  1.00 14.30      HS8
ATOM  41475  N   LEU H  63     137.494 136.185 -26.387  1.00 18.16      HS8
ATOM  41476  CA  LEU H  63     138.082 135.704 -25.150  1.00 18.16      HS8
ATOM  41477  CB  LEU H  63     139.524 135.253 -25.373  1.00 40.09      HS8
ATOM  41478  CG  LEU H  63     139.799 134.336 -26.557  1.00 40.09      HS8
ATOM  41479  CD1 LEU H  63     138.768 133.220 -26.589  1.00 40.09      HS8
ATOM  41480  CD2 LEU H  63     139.755 135.152 -27.835  1.00 40.09      HS8
ATOM  41481  C   LEU H  63     138.073 136.762 -24.088  1.00 18.16      HS8
ATOM  41482  O   LEU H  63     138.061 137.950 -24.393  1.00 18.16      HS8
ATOM  41483  N   LYS H  64     138.105 136.316 -22.839  1.00 44.68      HS8
ATOM  41484  CA  LYS H  64     138.098 137.205 -21.691  1.00 44.68      HS8
ATOM  41485  CB  LYS H  64     136.814 136.985 -20.886  1.00 64.98      HS8
ATOM  41486  CG  LYS H  64     136.723 137.789 -19.604  1.00 64.98      HS8
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ATOM  41487  CD  LYS H  64     135.298 137.825 -19.073  1.00 64.98       HS8
ATOM  41488  CE  LYS H  64     134.746 136.434 -18.828  1.00 64.98       HS8
ATOM  41489  NZ  LYS H  64     133.368 136.486 -18.259  1.00 64.98       HS8
ATOM  41490  C   LYS H  64     139.319 136.927 -20.833  1.00 44.68       HS8
ATOM  41491  O   LYS H  64     139.747 135.783 -20.704  1.00 44.68       HS8
ATOM  41492  N   TYR H  65     139.880 137.973 -20.245  1.00 28.55       HS8
ATOM  41493  CA  TYR H  65     141.065 137.814 -19.413  1.00 28.55       HS8
ATOM  41494  CB  TYR H  65     142.300 138.303 -20.153  1.00 26.32       HS8
ATOM  41495  CG  TYR H  65     142.414 137.705 -21.515  1.00 26.32       HS8
ATOM  41496  CD1 TYR H  65     141.703 138.225 -22.585  1.00 26.32       HS8
ATOM  41497  CE1 TYR H  65     141.764 137.631 -23.835  1.00 26.32       HS8
ATOM  41498  CD2 TYR H  65     143.190 136.576 -21.729  1.00 26.32       HS8
ATOM  41499  CE2 TYR H  65     143.254 135.974 -22.976  1.00 26.32       HS8
ATOM  41500  CZ  TYR H  65     142.540 136.508 -24.018  1.00 26.32       HS8
ATOM  41501  OH  TYR H  65     142.598 135.904 -25.237  1.00 26.32       HS8
ATOM  41502  C   TYR H  65     140.944 138.594 -18.133  1.00 28.55       HS8
ATOM  41503  O   TYR H  65     140.008 139.362 -17.959  1.00 28.55       HS8
ATOM  41504  N   GLY H  66     141.902 138.400 -17.238  1.00 43.36       HS8
ATOM  41505  CA  GLY H  66     141.883 139.130 -15.992  1.00 43.36       HS8
ATOM  41506  C   GLY H  66     142.337 140.548 -16.277  1.00 43.36       HS8
ATOM  41507  O   GLY H  66     142.322 140.990 -17.431  1.00 43.36       HS8
ATOM  41508  N   PRO H  67     142.729 141.298 -15.243  1.00 43.54       HS8
ATOM  41509  CD  PRO H  67     142.510 141.000 -13.816  1.00 31.75       HS8
ATOM  41510  CA  PRO H  67     143.191 142.674 -15.414  1.00 43.54       HS8
ATOM  41511  CB  PRO H  67     142.749 143.322 -14.119  1.00 31.75       HS8
ATOM  41512  CG  PRO H  67     143.035 142.251 -13.138  1.00 31.75       HS8
ATOM  41513  C   PRO H  67     144.706 142.639 -15.549  1.00 43.54       HS8
ATOM  41514  O   PRO H  67     145.323 141.612 -15.260  1.00 43.54       HS8
ATOM  41515  N   ARG H  68     145.313 143.738 -15.987  1.00 32.14       HS8
ATOM  41516  CA  ARG H  68     146.768 143.766 -16.116  1.00 32.14       HS8
ATOM  41517  CB  ARG H  68     147.235 145.081 -16.736  1.00 91.24       HS8
ATOM  41518  CG  ARG H  68     148.744 145.198 -16.817  1.00 91.24       HS8
ATOM  41519  CD  ARG H  68     149.188 146.499 -17.475  1.00 91.24       HS8
ATOM  41520  NE  ARG H  68     150.634 146.672 -17.382  1.00 91.24       HS8
ATOM  41521  CZ  ARG H  68     151.295 146.778 -16.233  1.00 91.24       HS8
ATOM  41522  NH1 ARG H  68     150.642 146.735 -15.076  1.00 91.24       HS8
ATOM  41523  NH2 ARG H  68     152.613 146.912 -16.238  1.00 91.24       HS8
ATOM  41524  C   ARG H  68     147.349 143.611 -14.719  1.00 32.14       HS8
ATOM  41525  O   ARG H  68     146.918 144.295 -13.804  1.00 32.14       HS8
ATOM  41526  N   ARG H  69     148.309 142.705 -14.545  1.00 20.29       HS8
ATOM  41527  CA  ARG H  69     148.903 142.479 -13.229  1.00 20.29       HS8
ATOM  41528  CB  ARG H  69     149.181 140.989 -13.024  1.00149.23       HS8
ATOM  41529  CG  ARG H  69     147.918 140.177 -12.800  1.00149.23       HS8
ATOM  41530  CD  ARG H  69     148.233 138.722 -12.564  1.00149.23       HS8
ATOM  41531  NE  ARG H  69     148.843 138.113 -13.739  1.00149.23       HS8
ATOM  41532  CZ  ARG H  69     149.208 136.838 -13.812  1.00149.23       HS8
ATOM  41533  NH1 ARG H  69     149.025 136.035 -12.773  1.00149.23       HS8
ATOM  41534  NH2 ARG H  69     149.751 136.362 -14.924  1.00149.23       HS8
ATOM  41535  C   ARG H  69     150.165 143.297 -12.989  1.00 20.29       HS8
ATOM  41536  O   ARG H  69     150.628 143.996 -13.885  1.00 20.29       HS8
ATOM  41537  N   GLN H  70     150.716 143.228 -11.779  1.00 68.28       HS8
ATOM  41538  CA  GLN H  70     151.905 144.011 -11.469  1.00 68.28       HS8
ATOM  41539  CB  GLN H  70     151.607 145.006 -10.349  1.00139.78       HS8
ATOM  41540  CG  GLN H  70     150.676 146.123 -10.774  1.00139.78       HS8
ATOM  41541  CD  GLN H  70     150.881 147.381  -9.964  1.00139.78       HS8
ATOM  41542  OE1 GLN H  70     150.759 147.369  -8.740  1.00139.78       HS8
ATOM  41543  NE2 GLN H  70     151.198 148.479 -10.645  1.00139.78       HS8
ATOM  41544  C   GLN H  70     153.170 143.237 -11.133  1.00 68.28       HS8
ATOM  41545  O   GLN H  70     153.133 142.043 -10.816  1.00 68.28       HS8
ATOM  41546  N   GLY H  71     154.291 143.954 -11.200  1.00 99.42       HS8
ATOM  41547  CA  GLY H  71     155.594 143.371 -10.944  1.00 99.42       HS8
ATOM  41548  C   GLY H  71     156.123 142.811 -12.247  1.00 99.42       HS8
ATOM  41549  O   GLY H  71     155.746 143.271 -13.323  1.00 99.42       HS8
ATOM  41550  N   PRO H  72     157.016 141.825 -12.191  1.00 65.61       HS8
ATOM  41551  CD  PRO H  72     157.683 141.284 -11.000  1.00 40.79       HS8
ATOM  41552  CA  PRO H  72     157.559 141.234 -13.416  1.00 65.61       HS8
ATOM  41553  CB  PRO H  72     158.734 140.415 -12.904  1.00 40.79       HS8
ATOM  41554  CG  PRO H  72     158.285 140.014 -11.534  1.00 40.79       HS8
ATOM  41555  C   PRO H  72     156.475 140.374 -14.051  1.00 65.61       HS8
ATOM  41556  O   PRO H  72     155.830 139.578 -13.362  1.00 65.61       HS8
ATOM  41557  N   ASP H  73     156.269 140.536 -15.355  1.00 61.24       HS8
ATOM  41558  CA  ASP H  73     155.228 139.790 -16.078  1.00 61.24       HS8
ATOM  41559  CB  ASP H  73     155.303 138.283 -15.808  1.00 82.25       HS8
ATOM  41560  CG  ASP H  73     154.274 137.498 -16.616  1.00 82.25       HS8
ATOM  41561  OD1 ASP H  73     154.125 136.278 -16.387  1.00 82.25       HS8
ATOM  41562  OD2 ASP H  73     153.618 138.104 -17.492  1.00 82.25       HS8
ATOM  41563  C   ASP H  73     153.821 140.271 -15.714  1.00 61.24       HS8
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ATOM  41564  O   ASP H  73     153.159 139.708 -14.840  1.00 61.24       HS8
ATOM  41565  N   PRO H  74     153.350 141.314 -16.402  1.00 61.56       HS8
ATOM  41566  CD  PRO H  74     154.122 142.054 -17.416  1.00 48.72       HS8
ATOM  41567  CA  PRO H  74     152.038 141.926 -16.212  1.00 61.56       HS8
ATOM  41568  CB  PRO H  74     152.230 143.298 -16.832  1.00 48.72       HS8
ATOM  41569  CG  PRO H  74     153.085 142.978 -18.011  1.00 48.72       HS8
ATOM  41570  C   PRO H  74     150.907 141.150 -16.888  1.00 61.56       HS8
ATOM  41571  O   PRO H  74     149.733 141.463 -16.699  1.00 61.56       HS8
ATOM  41572  N   ARG H  75     151.261 140.147 -17.684  1.00 39.13       HS8
ATOM  41573  CA  ARG H  75     150.255 139.361 -18.381  1.00 39.13       HS8
ATOM  41574  CB  ARG H  75     150.854 138.092 -18.971  1.00 65.63       HS8
ATOM  41575  CG  ARG H  75     151.423 138.282 -20.360  1.00 65.63       HS8
ATOM  41576  CD  ARG H  75     151.949 136.973 -20.857  1.00 65.63       HS8
ATOM  41577  NE  ARG H  75     152.912 136.443 -19.907  1.00 65.63       HS8
ATOM  41578  CZ  ARG H  75     153.349 135.196 -19.923  1.00 65.63       HS8
ATOM  41579  NH1 ARG H  75     152.898 134.355 -20.849  1.00 65.63       HS8
ATOM  41580  NH2 ARG H  75     154.234 134.795 -19.021  1.00 65.63       HS8
ATOM  41581  C   ARG H  75     149.117 138.999 -17.467  1.00 39.13       HS8
ATOM  41582  O   ARG H  75     149.316 138.442 -16.396  1.00 39.13       HS8
ATOM  41583  N   PRO H  76     147.898 139.300 -17.903  1.00 22.12       HS8
ATOM  41584  CD  PRO H  76     147.669 139.689 -19.295  1.00 40.18       HS8
ATOM  41585  CA  PRO H  76     146.622 139.075 -17.228  1.00 22.12       HS8
ATOM  41586  CB  PRO H  76     145.603 139.484 -18.272  1.00 40.18       HS8
ATOM  41587  CG  PRO H  76     146.372 140.383 -19.176  1.00 40.18       HS8
ATOM  41588  C   PRO H  76     146.442 137.630 -16.838  1.00 22.12       HS8
ATOM  41589  O   PRO H  76     147.219 136.776 -17.252  1.00 22.12       HS8
ATOM  41590  N   GLU H  77     145.420 137.358 -16.037  1.00 41.34       HS8
ATOM  41591  CA  GLU H  77     145.139 135.996 -15.623  1.00 41.34       HS8
ATOM  41592  CB  GLU H  77     144.582 135.970 -14.214  1.00 78.52       HS8
ATOM  41593  CG  GLU H  77     144.329 134.583 -13.717  1.00 78.52       HS8
ATOM  41594  CD  GLU H  77     143.754 134.584 -12.332  1.00 78.52       HS8
ATOM  41595  OE1 GLU H  77     144.338 135.245 -11.446  1.00 78.52       HS8
ATOM  41596  OE2 GLU H  77     142.718 133.924 -12.126  1.00 78.52       HS8
ATOM  41597  C   GLU H  77     144.100 135.471 -16.585  1.00 41.34       HS8
ATOM  41598  O   GLU H  77     143.308 136.239 -17.122  1.00 41.34       HS8
ATOM  41599  N   GLN H  78     144.100 134.167 -16.820  1.00 45.21       HS8
ATOM  41600  CA  GLN H  78     143.132 133.589 -17.745  1.00 45.21       HS8
ATOM  41601  CB  GLN H  78     143.642 132.263 -18.307  1.00 61.98       HS8
ATOM  41602  CG  GLN H  78     144.956 132.330 -19.050  1.00 61.98       HS8
ATOM  41603  CD  GLN H  78     144.861 133.133 -20.317  1.00 61.98       HS8
ATOM  41604  OE1 GLN H  78     143.835 133.118 -20.999  1.00 61.98       HS8
ATOM  41605  NE2 GLN H  78     145.940 133.829 -20.656  1.00 61.98       HS8
ATOM  41606  C   GLN H  78     141.827 133.321 -17.029  1.00 45.21       HS8
ATOM  41607  O   GLN H  78     141.818 132.794 -15.915  1.00 45.21       HS8
ATOM  41608  N   VAL H  79     140.722 133.688 -17.662  1.00 56.11       HS8
ATOM  41609  CA  VAL H  79     139.428 133.418 -17.064  1.00 56.11       HS8
ATOM  41610  CB  VAL H  79     138.314 134.130 -17.808  1.00 45.29       HS8
ATOM  41611  CG1 VAL H  79     137.003 133.893 -17.105  1.00 45.29       HS8
ATOM  41612  CG2 VAL H  79     138.628 135.606 -17.903  1.00 45.29       HS8
ATOM  41613  C   VAL H  79     139.242 131.916 -17.221  1.00 56.11       HS8
ATOM  41614  O   VAL H  79     138.607 131.267 -16.383  1.00 56.11       HS8
ATOM  41615  N   ILE H  80     139.813 131.394 -18.316  1.00 15.69       HS8
ATOM  41616  CA  ILE H  80     139.810 129.979 -18.687  1.00 15.69       HS8
ATOM  41617  CB  ILE H  80     139.690 129.827 -20.210  1.00 22.12       HS8
ATOM  41618  CG2 ILE H  80     140.108 128.455 -20.656  1.00 22.12       HS8
ATOM  41619  CG1 ILE H  80     138.249 130.025 -20.638  1.00 22.12       HS8
ATOM  41620  CD1 ILE H  80     137.988 129.532 -22.072  1.00 22.12       HS8
ATOM  41621  C   ILE H  80     141.136 129.366 -18.238  1.00 15.69       HS8
ATOM  41622  O   ILE H  80     141.991 129.051 -19.055  1.00 15.69       HS8
ATOM  41623  N   HIS H  81     141.329 129.227 -16.935  1.00 66.17       HS8
ATOM  41624  CA  HIS H  81     142.569 128.646 -16.454  1.00 66.17       HS8
ATOM  41625  CB  HIS H  81     142.496 128.358 -14.961  1.00 78.25       HS8
ATOM  41626  CG  HIS H  81     142.377 129.575 -14.110  1.00 78.25       HS8
ATOM  41627  CD2 HIS H  81     143.093 129.983 -13.035  1.00 78.25       HS8
ATOM  41628  ND1 HIS H  81     141.398 130.523 -14.301  1.00 78.25       HS8
ATOM  41629  CE1 HIS H  81     141.514 131.462 -13.380  1.00 78.25       HS8
ATOM  41630  NE2 HIS H  81     142.535 131.158 -12.599  1.00 78.25       HS8
ATOM  41631  C   HIS H  81     142.777 127.323 -17.159  1.00 66.17       HS8
ATOM  41632  O   HIS H  81     143.821 127.070 -17.749  1.00 66.17       HS8
ATOM  41633  N   HIS H  82     141.741 126.497 -17.101  1.00 44.29       HS8
ATOM  41634  CA  HIS H  82     141.748 125.150 -17.641  1.00 44.29       HS8
ATOM  41635  CB  HIS H  82     141.362 124.223 -16.517  1.00 43.66       HS8
ATOM  41636  CG  HIS H  82     141.672 122.797 -16.778  1.00 43.66       HS8
ATOM  41637  CD2 HIS H  82     140.862 121.734 -16.987  1.00 43.66       HS8
ATOM  41638  ND1 HIS H  82     142.958 122.311 -16.776  1.00 43.66       HS8
ATOM  41639  CE1 HIS H  82     142.928 121.003 -16.963  1.00 43.66       HS8
ATOM  41640  NE2 HIS H  82     141.666 120.628 -17.093  1.00 43.66       HS8
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ATOM  41641  C   HIS H  82     140.772 124.974 -18.786  1.00 44.29       HS8
ATOM  41642  O   HIS H  82     140.135 125.918 -19.207  1.00 44.29       HS8
ATOM  41643  N   ILE H  83     140.654 123.748 -19.270  1.00 25.54       HS8
ATOM  41644  CA  ILE H  83     139.760 123.378 -20.371  1.00 25.54       HS8
ATOM  41645  CB  ILE H  83     139.594 124.496 -21.429  1.00  9.71       HS8
ATOM  41646  CG2 ILE H  83     140.921 125.011 -21.864  1.00  9.71       HS8
ATOM  41647  CG1 ILE H  83     138.888 123.934 -22.664  1.00  9.71       HS8
ATOM  41648  CD1 ILE H  83     138.361 124.975 -23.599  1.00  9.71       HS8
ATOM  41649  C   ILE H  83     140.357 122.143 -21.050  1.00 25.54       HS8
ATOM  41650  O   ILE H  83     141.289 122.241 -21.857  1.00 25.54       HS8
ATOM  41651  N   ARG H  84     139.806 120.983 -20.698  1.00 38.11       HS8
ATOM  41652  CA  ARG H  84     140.258 119.690 -21.187  1.00 38.11       HS8
ATOM  41653  CB  ARG H  84     140.822 118.901 -20.003  1.00 77.44       HS8
ATOM  41654  CG  ARG H  84     140.905 117.414 -20.217  1.00 77.44       HS8
ATOM  41655  CD  ARG H  84     140.668 116.667 -18.910  1.00 77.44       HS8
ATOM  41656  NE  ARG H  84     141.896 116.183 -18.290  1.00 77.44       HS8
ATOM  41657  CZ  ARG H  84     142.718 115.301 -18.851  1.00 77.44       HS8
ATOM  41658  NH1 ARG H  84     142.447 114.807 -20.053  1.00 77.44       HS8
ATOM  41659  NH2 ARG H  84     143.805 114.900 -18.205  1.00 77.44       HS8
ATOM  41660  C   ARG H  84     139.115 118.916 -21.839  1.00 38.11       HS8
ATOM  41661  O   ARG H  84     138.002 118.920 -21.333  1.00 38.11       HS8
ATOM  41662  N   ARG H  85     139.390 118.263 -22.968  1.00 37.58       HS8
ATOM  41663  CA  ARG H  85     138.382 117.467 -23.668  1.00 37.58       HS8
ATOM  41664  CB  ARG H  85     138.765 117.279 -25.138  1.00 28.73       HS8
ATOM  41665  CG  ARG H  85     137.596 117.027 -26.078  1.00 28.73       HS8
ATOM  41666  CD  ARG H  85     136.816 115.809 -25.662  1.00 28.73       HS8
ATOM  41667  NE  ARG H  85     135.430 115.823 -26.139  1.00 28.73       HS8
ATOM  41668  CZ  ARG H  85     135.050 115.541 -27.382  1.00 28.73       HS8
ATOM  41669  NH1 ARG H  85     135.948 115.228 -28.295  1.00 28.73       HS8
ATOM  41670  NH2 ARG H  85     133.765 115.528 -27.702  1.00 28.73       HS8
ATOM  41671  C   ARG H  85     138.440 116.128 -22.965  1.00 37.58       HS8
ATOM  41672  O   ARG H  85     139.524 115.639 -22.683  1.00 37.58       HS8
ATOM  41673  N   ILE H  86     137.294 115.532 -22.667  1.00 53.74       HS8
ATOM  41674  CA  ILE H  86     137.300 114.250 -21.982  1.00 53.74       HS8
ATOM  41675  CB  ILE H  86     136.386 114.276 -20.768  1.00 36.72       HS8
ATOM  41676  CG2 ILE H  86     136.479 112.965 -20.023  1.00 36.72       HS8
ATOM  41677  CG1 ILE H  86     136.801 115.422 -19.853  1.00 36.72       HS8
ATOM  41678  CD1 ILE H  86     136.002 115.504 -18.586  1.00 36.72       HS8
ATOM  41679  C   ILE H  86     136.869 113.131 -22.902  1.00 53.74       HS8
ATOM  41680  O   ILE H  86     137.687 112.346 -23.368  1.00 53.74       HS8
ATOM  41681  N   SER H  87     135.580 113.038 -23.158  1.00 27.63       HS8
ATOM  41682  CA  SER H  87     135.122 112.003 -24.052  1.00 27.63       HS8
ATOM  41683  CB  SER H  87     133.597 112.008 -24.119  1.00 56.59       HS8
ATOM  41684  OG  SER H  87     133.129 111.189 -25.179  1.00 56.59       HS8
ATOM  41685  C   SER H  87     135.703 112.272 -25.444  1.00 27.63       HS8
ATOM  41686  O   SER H  87     135.331 113.246 -26.090  1.00 27.63       HS8
ATOM  41687  N   LYS H  88     136.626 111.431 -25.905  1.00 18.47       HS8
ATOM  41688  CA  LYS H  88     137.201 111.596 -27.242  1.00 18.47       HS8
ATOM  41689  CB  LYS H  88     138.716 111.760 -27.168  1.00 22.42       HS8
ATOM  41690  CG  LYS H  88     139.293 111.841 -25.765  1.00 22.42       HS8
ATOM  41691  CD  LYS H  88     140.660 112.517 -25.791  1.00 22.42       HS8
ATOM  41692  CE  LYS H  88     141.480 112.240 -24.547  1.00 22.42       HS8
ATOM  41693  NZ  LYS H  88     141.831 110.782 -24.456  1.00 22.42       HS8
ATOM  41694  C   LYS H  88     136.868 110.354 -28.062  1.00 18.47       HS8
ATOM  41695  O   LYS H  88     136.566 109.294 -27.496  1.00 18.47       HS8
ATOM  41696  N   PRO H  89     136.908 110.460 -29.405  1.00  7.90       HS8
ATOM  41697  CD  PRO H  89     137.375 111.614 -30.186  1.00  2.26       HS8
ATOM  41698  CA  PRO H  89     136.603 109.306 -30.274  1.00  7.90       HS8
ATOM  41699  CB  PRO H  89     136.946 109.807 -31.679  1.00  2.26       HS8
ATOM  41700  CG  PRO H  89     137.890 110.957 -31.434  1.00  2.26       HS8
ATOM  41701  C   PRO H  89     137.445 108.124 -29.840  1.00  7.90       HS8
ATOM  41702  O   PRO H  89     138.513 108.302 -29.241  1.00  7.90       HS8
ATOM  41703  N   GLY H  90     136.990 106.913 -30.106  1.00 45.68       HS8
ATOM  41704  CA  GLY H  90     137.784 105.794 -29.639  1.00 45.68       HS8
ATOM  41705  C   GLY H  90     138.115 105.981 -28.156  1.00 45.68       HS8
ATOM  41706  O   GLY H  90     139.285 105.974 -27.750  1.00 45.68       HS8
ATOM  41707  N   ARG H  91     137.050 106.194 -27.377  1.00 24.14       HS8
ATOM  41708  CA  ARG H  91     137.041 106.367 -25.921  1.00 24.14       HS8
ATOM  41709  CB  ARG H  91     138.400 106.742 -25.359  1.00 27.15       HS8
ATOM  41710  CG  ARG H  91     138.886 105.754 -24.303  1.00 27.15       HS8
ATOM  41711  CD  ARG H  91     138.168 105.841 -22.955  1.00 27.15       HS8
ATOM  41712  NE  ARG H  91     139.151 105.986 -21.873  1.00 27.15       HS8
ATOM  41713  CZ  ARG H  91     138.981 105.581 -20.618  1.00 27.15       HS8
ATOM  41714  NH1 ARG H  91     137.855 104.988 -20.244  1.00 27.15       HS8
ATOM  41715  NH2 ARG H  91     139.943 105.774 -19.734  1.00 27.15       HS8
ATOM  41716  C   ARG H  91     136.045 107.398 -25.479  1.00 24.14       HS8
ATOM  41717  O   ARG H  91     136.419 108.439 -24.952  1.00 24.14       HS8
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ATOM  41718  N   ARG H  92     134.769 107.102 -25.702  1.00 35.76      HS8
ATOM  41719  CA  ARG H  92     133.717 108.002 -25.283  1.00 35.76      HS8
ATOM  41720  CB  ARG H  92     132.388 107.649 -25.930  1.00 32.93      HS8
ATOM  41721  CG  ARG H  92     132.465 106.971 -27.271  1.00 32.93      HS8
ATOM  41722  CD  ARG H  92     133.052 107.844 -28.354  1.00 32.93      HS8
ATOM  41723  NE  ARG H  92     132.693 109.245 -28.221  1.00 32.93      HS8
ATOM  41724  CZ  ARG H  92     132.795 110.120 -29.212  1.00 32.93      HS8
ATOM  41725  NH1 ARG H  92     133.227 109.728 -30.405  1.00 32.93      HS8
ATOM  41726  NH2 ARG H  92     132.506 111.395 -28.999  1.00 32.93      HS8
ATOM  41727  C   ARG H  92     133.575 107.814 -23.779  1.00 35.76      HS8
ATOM  41728  O   ARG H  92     134.082 106.847 -23.200  1.00 35.76      HS8
ATOM  41729  N   VAL H  93     132.869 108.736 -23.146  1.00 38.75      HS8
ATOM  41730  CA  VAL H  93     132.672 108.661 -21.718  1.00 38.75      HS8
ATOM  41731  CB  VAL H  93     133.655 109.542 -21.005  1.00  2.26      HS8
ATOM  41732  CG1 VAL H  93     133.354 109.547 -19.543  1.00  2.26      HS8
ATOM  41733  CG2 VAL H  93     135.025 109.050 -21.252  1.00  2.26      HS8
ATOM  41734  C   VAL H  93     131.278 109.078 -21.310  1.00 38.75      HS8
ATOM  41735  O   VAL H  93     130.917 110.250 -21.390  1.00 38.75      HS8
ATOM  41736  N   TYR H  94     130.500 108.113 -20.847  1.00 24.75      HS8
ATOM  41737  CA  TYR H  94     129.143 108.394 -20.429  1.00 24.75      HS8
ATOM  41738  CB  TYR H  94     128.208 107.436 -21.130  1.00 21.32      HS8
ATOM  41739  CG  TYR H  94     128.491 107.395 -22.595  1.00 21.32      HS8
ATOM  41740  CD1 TYR H  94     129.164 106.325 -23.173  1.00 21.32      HS8
ATOM  41741  CE1 TYR H  94     129.432 106.295 -24.532  1.00 21.32      HS8
ATOM  41742  CD2 TYR H  94     128.100 108.436 -23.406  1.00 21.32      HS8
ATOM  41743  CE2 TYR H  94     128.365 108.418 -24.767  1.00 21.32      HS8
ATOM  41744  CZ  TYR H  94     129.028 107.348 -25.323  1.00 21.32      HS8
ATOM  41745  OH  TYR H  94     129.260 107.367 -26.676  1.00 21.32      HS8
ATOM  41746  C   TYR H  94     129.012 108.266 -18.930  1.00 24.75      HS8
ATOM  41747  O   TYR H  94     129.636 107.403 -18.328  1.00 24.75      HS8
ATOM  41748  N   VAL H  95     128.216 109.146 -18.332  1.00 19.11      HS8
ATOM  41749  CA  VAL H  95     128.004 109.114 -16.895  1.00 19.11      HS8
ATOM  41750  CB  VAL H  95     128.707 110.285 -16.165  1.00 23.28      HS8
ATOM  41751  CG1 VAL H  95     130.187 110.201 -16.356  1.00 23.28      HS8
ATOM  41752  CG2 VAL H  95     128.179 111.611 -16.671  1.00 23.28      HS8
ATOM  41753  C   VAL H  95     126.531 109.170 -16.516  1.00 19.11      HS8
ATOM  41754  O   VAL H  95     125.703 109.741 -17.242  1.00 19.11      HS8
ATOM  41755  N   GLY H  96     126.224 108.543 -15.380  1.00 34.15      HS8
ATOM  41756  CA  GLY H  96     124.877 108.550 -14.847  1.00 34.15      HS8
ATOM  41757  C   GLY H  96     124.846 109.788 -13.977  1.00 34.15      HS8
ATOM  41758  O   GLY H  96     125.888 110.233 -13.510  1.00 34.15      HS8
ATOM  41759  N   VAL H  97     123.677 110.366 -13.751  1.00 50.21      HS8
ATOM  41760  CA  VAL H  97     123.641 111.569 -12.941  1.00 50.21      HS8
ATOM  41761  CB  VAL H  97     122.198 112.082 -12.750  1.00 35.34      HS8
ATOM  41762  CG1 VAL H  97     121.359 111.037 -12.076  1.00 35.34      HS8
ATOM  41763  CG2 VAL H  97     122.214 113.363 -11.951  1.00 35.34      HS8
ATOM  41764  C   VAL H  97     124.304 111.317 -11.596  1.00 50.21      HS8
ATOM  41765  O   VAL H  97     124.933 112.212 -11.042  1.00 50.21      HS8
ATOM  41766  N   LYS H  98     124.178 110.096 -11.083  1.00 30.32      HS8
ATOM  41767  CA  LYS H  98     124.796 109.741  -9.810  1.00 30.32      HS8
ATOM  41768  CB  LYS H  98     124.508 108.278  -9.455  1.00201.26      HS8
ATOM  41769  CG  LYS H  98     123.046 107.885  -9.340  1.00201.26      HS8
ATOM  41770  CD  LYS H  98     122.935 106.368  -9.193  1.00201.26      HS8
ATOM  41771  CE  LYS H  98     121.495 105.895  -9.055  1.00201.26      HS8
ATOM  41772  NZ  LYS H  98     120.892 106.284  -7.752  1.00201.26      HS8
ATOM  41773  C   LYS H  98     126.323 109.905  -9.921  1.00 30.32      HS8
ATOM  41774  O   LYS H  98     127.002 110.163  -8.915  1.00 30.32      HS8
ATOM  41775  N   GLU H  99     126.839 109.744 -11.150  1.00 52.76      HS8
ATOM  41776  CA  GLU H  99     128.275 109.811 -11.486  1.00 52.76      HS8
ATOM  41777  CB  GLU H  99     128.653 108.646 -12.400  1.00127.25      HS8
ATOM  41778  CG  GLU H  99     128.523 107.264 -11.822  1.00127.25      HS8
ATOM  41779  CD  GLU H  99     128.828 106.203 -12.863  1.00127.25      HS8
ATOM  41780  OE1 GLU H  99     128.029 106.063 -13.815  1.00127.25      HS8
ATOM  41781  OE2 GLU H  99     129.871 105.522 -12.739  1.00127.25      HS8
ATOM  41782  C   GLU H  99     128.789 111.077 -12.181  1.00 52.76      HS8
ATOM  41783  O   GLU H  99     129.869 111.049 -12.765  1.00 52.76      HS8
ATOM  41784  N   ILE H 100     128.035 112.171 -12.153  1.00 30.75      HS8
ATOM  41785  CA  ILE H 100     128.491 113.391 -12.809  1.00 30.75      HS8
ATOM  41786  CB  ILE H 100     127.334 114.329 -13.129  1.00 33.90      HS8
ATOM  41787  CG2 ILE H 100     127.848 115.499 -13.935  1.00 33.90      HS8
ATOM  41788  CG1 ILE H 100     126.263 113.573 -13.917  1.00 33.90      HS8
ATOM  41789  CD1 ILE H 100     125.206 114.449 -14.549  1.00 33.90      HS8
ATOM  41790  C   ILE H 100     129.477 114.109 -11.914  1.00 30.75      HS8
ATOM  41791  O   ILE H 100     129.134 114.563 -10.832  1.00 30.75      HS8
ATOM  41792  N   PRO H 101     130.724 114.230 -12.371  1.00 47.83      HS8
ATOM  41793  CD  PRO H 101     131.097 113.814 -13.735  1.00 31.07      HS8
ATOM  41794  CA  PRO H 101     131.853 114.871 -11.686  1.00 47.83      HS8
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ATOM  41795  CB  PRO H 101     132.989 114.720 -12.698  1.00 31.07      HS8
ATOM  41796  CG  PRO H 101     132.282 114.684 -14.021  1.00 31.07      HS8
ATOM  41797  C   PRO H 101     131.705 116.313 -11.180  1.00 47.83      HS8
ATOM  41798  O   PRO H 101     131.212 117.192 -11.889  1.00 47.83      HS8
ATOM  41799  N   ARG H 102     132.158 116.542  -9.946  1.00 49.90      HS8
ATOM  41800  CA  ARG H 102     132.103 117.862  -9.316  1.00 49.90      HS8
ATOM  41801  CB  ARG H 102     131.878 117.704  -7.816  1.00185.83      HS8
ATOM  41802  CG  ARG H 102     131.700 119.006  -7.069  1.00185.83      HS8
ATOM  41803  CD  ARG H 102     131.034 118.744  -5.734  1.00185.83      HS8
ATOM  41804  NE  ARG H 102     129.783 118.012  -5.918  1.00185.83      HS8
ATOM  41805  CZ  ARG H 102     128.970 117.646  -4.932  1.00185.83      HS8
ATOM  41806  NH1 ARG H 102     129.267 117.943  -3.673  1.00185.83      HS8
ATOM  41807  NH2 ARG H 102     127.857 116.979  -5.207  1.00185.83      HS8
ATOM  41808  C   ARG H 102     133.412 118.609  -9.577  1.00 49.90      HS8
ATOM  41809  O   ARG H 102     134.333 118.579  -8.755  1.00 49.90      HS8
ATOM  41810  N   VAL H 103     133.471 119.292 -10.722  1.00 21.09      HS8
ATOM  41811  CA  VAL H 103     134.660 120.040 -11.173  1.00 21.09      HS8
ATOM  41812  CB  VAL H 103     134.420 120.641 -12.568  1.00 41.44      HS8
ATOM  41813  CG1 VAL H 103     135.748 121.033 -13.203  1.00 41.44      HS8
ATOM  41814  CG2 VAL H 103     133.664 119.644 -13.432  1.00 41.44      HS8
ATOM  41815  C   VAL H 103     135.207 121.159 -10.295  1.00 21.09      HS8
ATOM  41816  O   VAL H 103     134.550 122.172 -10.070  1.00 21.09      HS8
ATOM  41817  N   ARG H 104     136.440 120.975  -9.839  1.00 55.68      HS8
ATOM  41818  CA  ARG H 104     137.111 121.959  -8.998  1.00 55.68      HS8
ATOM  41819  CB  ARG H 104     137.514 123.187  -9.831  1.00 61.44      HS8
ATOM  41820  CG  ARG H 104     139.005 123.272 -10.204  1.00 61.44      HS8
ATOM  41821  CD  ARG H 104     139.827 123.773  -9.029  1.00 61.44      HS8
ATOM  41822  NE  ARG H 104     141.243 124.005  -9.325  1.00 61.44      HS8
ATOM  41823  CZ  ARG H 104     142.135 123.041  -9.545  1.00 61.44      HS8
ATOM  41824  NH1 ARG H 104     141.764 121.770  -9.518  1.00 61.44      HS8
ATOM  41825  NH2 ARG H 104     143.413 123.338  -9.743  1.00 61.44      HS8
ATOM  41826  C   ARG H 104     136.214 122.368  -7.843  1.00 55.68      HS8
ATOM  41827  O   ARG H 104     135.928 123.551  -7.640  1.00 55.68      HS8
ATOM  41828  N   ARG H 105     135.772 121.367  -7.090  1.00 58.69      HS8
ATOM  41829  CA  ARG H 105     134.917 121.588  -5.938  1.00 58.69      HS8
ATOM  41830  CB  ARG H 105     135.756 121.965  -4.718  1.00 72.94      HS8
ATOM  41831  CG  ARG H 105     135.658 120.988  -3.565  1.00 72.94      HS8
ATOM  41832  CD  ARG H 105     135.959 119.569  -4.024  1.00 72.94      HS8
ATOM  41833  NE  ARG H 105     136.872 118.856  -3.128  1.00 72.94      HS8
ATOM  41834  CZ  ARG H 105     136.627 118.576  -1.848  1.00 72.94      HS8
ATOM  41835  NH1 ARG H 105     135.485 118.947  -1.278  1.00 72.94      HS8
ATOM  41836  NH2 ARG H 105     137.530 117.908  -1.137  1.00 72.94      HS8
ATOM  41837  C   ARG H 105     133.880 122.668  -6.176  1.00 58.69      HS8
ATOM  41838  O   ARG H 105     133.495 123.364  -5.244  1.00 58.69      HS8
ATOM  41839  N   GLY H 106     133.446 122.827  -7.422  1.00 31.63      HS8
ATOM  41840  CA  GLY H 106     132.423 123.813  -7.707  1.00 31.63      HS8
ATOM  41841  C   GLY H 106     132.830 125.083  -8.418  1.00 31.63      HS8
ATOM  41842  O   GLY H 106     131.970 125.789  -8.949  1.00 31.63      HS8
ATOM  41843  N   LEU H 107     134.121 125.395  -8.442  1.00 27.65      HS8
ATOM  41844  CA  LEU H 107     134.571 126.611  -9.111  1.00 27.65      HS8
ATOM  41845  CB  LEU H 107     135.904 127.046  -8.527  1.00 49.85      HS8
ATOM  41846  CG  LEU H 107     135.794 127.611  -7.113  1.00 49.85      HS8
ATOM  41847  CD1 LEU H 107     134.878 126.772  -6.248  1.00 49.85      HS8
ATOM  41848  CD2 LEU H 107     137.177 127.668  -6.515  1.00 49.85      HS8
ATOM  41849  C   LEU H 107     134.680 126.417 -10.625  1.00 27.65      HS8
ATOM  41850  O   LEU H 107     134.645 127.373 -11.400  1.00 27.65      HS8
ATOM  41851  N   GLY H 108     134.809 125.166 -11.041  1.00 37.16      HS8
ATOM  41852  CA  GLY H 108     134.895 124.878 -12.454  1.00 37.16      HS8
ATOM  41853  C   GLY H 108     133.553 124.343 -12.878  1.00 37.16      HS8
ATOM  41854  O   GLY H 108     132.584 124.449 -12.137  1.00 37.16      HS8
ATOM  41855  N   ILE H 109     133.487 123.768 -14.068  1.00 23.95      HS8
ATOM  41856  CA  ILE H 109     132.238 123.215 -14.562  1.00 23.95      HS8
ATOM  41857  CB  ILE H 109     131.482 124.232 -15.434  1.00  9.73      HS8
ATOM  41858  CG2 ILE H 109     131.818 125.621 -15.001  1.00  9.73      HS8
ATOM  41859  CG1 ILE H 109     131.910 124.109 -16.895  1.00  9.73      HS8
ATOM  41860  CD1 ILE H 109     131.108 124.980 -17.798  1.00  9.73      HS8
ATOM  41861  C   ILE H 109     132.554 122.005 -15.418  1.00 23.95      HS8
ATOM  41862  O   ILE H 109     133.710 121.636 -15.581  1.00 23.95      HS8
ATOM  41863  N   ALA H 110     131.522 121.394 -15.971  1.00 36.12      HS8
ATOM  41864  CA  ALA H 110     131.713 120.247 -16.829  1.00 36.12      HS8
ATOM  41865  CB  ALA H 110     131.669 118.981 -16.022  1.00 13.00      HS8
ATOM  41866  C   ALA H 110     130.576 120.273 -17.810  1.00 36.12      HS8
ATOM  41867  O   ALA H 110     129.429 120.469 -17.431  1.00 36.12      HS8
ATOM  41868  N   ILE H 111     130.871 120.081 -19.077  1.00 24.31      HS8
ATOM  41869  CA  ILE H 111     129.795 120.105 -20.035  1.00 24.31      HS8
ATOM  41870  CB  ILE H 111     130.195 120.899 -21.241  1.00 10.91      HS8
ATOM  41871  CG2 ILE H 111     129.096 120.877 -22.249  1.00 10.91      HS8
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ATOM  41872  CG1 ILE H 111     130.506 122.326 -20.825  1.00 10.91      HS8
ATOM  41873  CD1 ILE H 111     130.640 123.252 -22.011  1.00 10.91      HS8
ATOM  41874  C   ILE H 111     129.393 118.713 -20.470  1.00 24.31      HS8
ATOM  41875  O   ILE H 111     130.223 117.941 -20.944  1.00 24.31      HS8
ATOM  41876  N   LEU H 112     128.119 118.384 -20.309  1.00  7.74      HS8
ATOM  41877  CA  LEU H 112     127.638 117.059 -20.707  1.00  7.74      HS8
ATOM  41878  CB  LEU H 112     126.758 116.410 -19.629  1.00 28.15      HS8
ATOM  41879  CG  LEU H 112     127.219 116.183 -18.188  1.00 28.15      HS8
ATOM  41880  CD1 LEU H 112     128.267 115.090 -18.133  1.00 28.15      HS8
ATOM  41881  CD2 LEU H 112     127.747 117.490 -17.615  1.00 28.15      HS8
ATOM  41882  C   LEU H 112     126.770 117.252 -21.905  1.00  7.74      HS8
ATOM  41883  O   LEU H 112     126.390 118.366 -22.218  1.00  7.74      HS8
ATOM  41884  N   SER H 113     126.463 116.164 -22.582  1.00 21.22      HS8
ATOM  41885  CA  SER H 113     125.553 116.228 -23.706  1.00 21.22      HS8
ATOM  41886  CB  SER H 113     126.218 115.816 -25.010  1.00  9.99      HS8
ATOM  41887  OG  SER H 113     125.303 115.963 -26.076  1.00  9.99      HS8
ATOM  41888  C   SER H 113     124.558 115.183 -23.270  1.00 21.22      HS8
ATOM  41889  O   SER H 113     124.943 114.054 -23.009  1.00 21.22      HS8
ATOM  41890  N   THR H 114     123.290 115.559 -23.154  1.00 15.91      HS8
ATOM  41891  CA  THR H 114     122.278 114.623 -22.697  1.00 15.91      HS8
ATOM  41892  CB  THR H 114     121.787 115.011 -21.300  1.00 12.49      HS8
ATOM  41893  OG1 THR H 114     121.012 116.208 -21.380  1.00 12.49      HS8
ATOM  41894  CG2 THR H 114     122.965 115.270 -20.395  1.00 12.49      HS8
ATOM  41895  C   THR H 114     121.094 114.559 -23.636  1.00 15.91      HS8
ATOM  41896  O   THR H 114     120.973 115.377 -24.540  1.00 15.91      HS8
ATOM  41897  N   SER H 115     120.230 113.570 -23.425  1.00 44.27      HS8
ATOM  41898  CA  SER H 115     119.046 113.410 -24.258  1.00 44.27      HS8
ATOM  41899  CB  SER H 115     118.237 112.186 -23.822  1.00 57.05      HS8
ATOM  41900  OG  SER H 115     118.092 112.125 -22.413  1.00 57.05      HS8
ATOM  41901  C   SER H 115     118.225 114.665 -24.098  1.00 44.27      HS8
ATOM  41902  O   SER H 115     117.351 114.958 -24.909  1.00 44.27      HS8
ATOM  41903  N   LYS H 116     118.523 115.406 -23.037  1.00 29.29      HS8
ATOM  41904  CA  LYS H 116     117.835 116.651 -22.755  1.00 29.29      HS8
ATOM  41905  CB  LYS H 116     117.407 116.722 -21.287  1.00 99.77      HS8
ATOM  41906  CG  LYS H 116     116.138 115.952 -20.986  1.00 99.77      HS8
ATOM  41907  CD  LYS H 116     115.601 116.303 -19.616  1.00 99.77      HS8
ATOM  41908  CE  LYS H 116     114.217 115.713 -19.418  1.00 99.77      HS8
ATOM  41909  NZ  LYS H 116     113.594 116.175 -18.146  1.00 99.77      HS8
ATOM  41910  C   LYS H 116     118.720 117.836 -23.086  1.00 29.29      HS8
ATOM  41911  O   LYS H 116     118.649 118.871 -22.431  1.00 29.29      HS8
ATOM  41912  N   GLY H 117     119.573 117.671 -24.093  1.00 30.53      HS8
ATOM  41913  CA  GLY H 117     120.442 118.757 -24.525  1.00 30.53      HS8
ATOM  41914  C   GLY H 117     121.815 118.900 -23.906  1.00 30.53      HS8
ATOM  41915  O   GLY H 117     122.220 118.096 -23.074  1.00 30.53      HS8
ATOM  41916  N   VAL H 118     122.530 119.940 -24.325  1.00 36.32      HS8
ATOM  41917  CA  VAL H 118     123.865 120.192 -23.807  1.00 36.32      HS8
ATOM  41918  CB  VAL H 118     124.737 120.923 -24.850  1.00 32.91      HS8
ATOM  41919  CG1 VAL H 118     126.136 121.161 -24.299  1.00 32.91      HS8
ATOM  41920  CG2 VAL H 118     124.801 120.105 -26.129  1.00 32.91      HS8
ATOM  41921  C   VAL H 118     123.751 121.046 -22.562  1.00 36.32      HS8
ATOM  41922  O   VAL H 118     123.187 122.128 -22.612  1.00 36.32      HS8
ATOM  41923  N   LEU H 119     124.270 120.562 -21.444  1.00 17.66      HS8
ATOM  41924  CA  LEU H 119     124.188 121.320 -20.207  1.00 17.66      HS8
ATOM  41925  CB  LEU H 119     122.910 120.970 -19.429  1.00 48.17      HS8
ATOM  41926  CG  LEU H 119     122.148 119.665 -19.695  1.00 48.17      HS8
ATOM  41927  CD1 LEU H 119     121.157 119.374 -18.576  1.00 48.17      HS8
ATOM  41928  CD2 LEU H 119     121.412 119.786 -21.008  1.00 48.17      HS8
ATOM  41929  C   LEU H 119     125.389 121.126 -19.307  1.00 17.66      HS8
ATOM  41930  O   LEU H 119     126.202 120.223 -19.522  1.00 17.66      HS8
ATOM  41931  N   THR H 120     125.495 121.981 -18.292  1.00 19.51      HS8
ATOM  41932  CA  THR H 120     126.609 121.923 -17.356  1.00 19.51      HS8
ATOM  41933  CB  THR H 120     126.787 123.233 -16.630  1.00 29.54      HS8
ATOM  41934  OG1 THR H 120     125.835 123.307 -15.571  1.00 29.54      HS8
ATOM  41935  CG2 THR H 120     126.553 124.387 -17.571  1.00 29.54      HS8
ATOM  41936  C   THR H 120     126.320 120.870 -16.320  1.00 19.51      HS8
ATOM  41937  O   THR H 120     125.203 120.360 -16.255  1.00 19.51      HS8
ATOM  41938  N   ASP H 121     127.313 120.542 -15.499  1.00 36.71      HS8
ATOM  41939  CA  ASP H 121     127.077 119.529 -14.492  1.00 36.71      HS8
ATOM  41940  CB  ASP H 121     128.317 119.281 -13.602  1.00 70.08      HS8
ATOM  41941  CG  ASP H 121     128.927 120.551 -13.030  1.00 70.08      HS8
ATOM  41942  OD1 ASP H 121     129.302 121.446 -13.817  1.00 70.08      HS8
ATOM  41943  OD2 ASP H 121     129.053 120.635 -11.787  1.00 70.08      HS8
ATOM  41944  C   ASP H 121     125.873 119.942 -13.677  1.00 36.71      HS8
ATOM  41945  O   ASP H 121     124.830 119.301 -13.765  1.00 36.71      HS8
ATOM  41946  N   ARG H 122     125.987 121.033 -12.925  1.00 45.63      HS8
ATOM  41947  CA  ARG H 122     124.868 121.488 -12.109  1.00 45.63      HS8
ATOM  41948  CB  ARG H 122     125.124 122.903 -11.587  1.00160.70      HS8
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ATOM  41949  CG  ARG H 122     126.272 122.941 -10.593  1.00160.70       HS8
ATOM  41950  CD  ARG H 122     126.228 124.159  -9.691  1.00160.70       HS8
ATOM  41951  NE  ARG H 122     127.114 123.985  -8.542  1.00160.70       HS8
ATOM  41952  CZ  ARG H 122     127.212 124.840  -7.528  1.00160.70       HS8
ATOM  41953  NH1 ARG H 122     126.478 125.944  -7.514  1.00160.70       HS8
ATOM  41954  NH2 ARG H 122     128.038 124.583  -6.522  1.00160.70       HS8
ATOM  41955  C   ARG H 122     123.562 121.413 -12.888  1.00 45.63       HS8
ATOM  41956  O   ARG H 122     122.598 120.822 -12.417  1.00 45.63       HS8
ATOM  41957  N   GLU H 123     123.540 121.976 -14.090  1.00 23.82       HS8
ATOM  41958  CA  GLU H 123     122.341 121.955 -14.926  1.00 23.82       HS8
ATOM  41959  CB  GLU H 123     122.642 122.536 -16.310  1.00100.07       HS8
ATOM  41960  CG  GLU H 123     122.619 124.047 -16.380  1.00100.07       HS8
ATOM  41961  CD  GLU H 123     122.993 124.568 -17.755  1.00100.07       HS8
ATOM  41962  OE1 GLU H 123     122.401 124.106 -18.754  1.00100.07       HS8
ATOM  41963  OE2 GLU H 123     123.877 125.447 -17.836  1.00100.07       HS8
ATOM  41964  C   GLU H 123     121.806 120.538 -15.095  1.00 23.82       HS8
ATOM  41965  O   GLU H 123     120.667 120.239 -14.751  1.00 23.82       HS8
ATOM  41966  N   ALA H 124     122.639 119.667 -15.643  1.00 26.18       HS8
ATOM  41967  CA  ALA H 124     122.245 118.292 -15.862  1.00 26.18       HS8
ATOM  41968  CB  ALA H 124     123.399 117.525 -16.463  1.00 49.71       HS8
ATOM  41969  C   ALA H 124     121.820 117.659 -14.551  1.00 26.18       HS8
ATOM  41970  O   ALA H 124     120.814 116.965 -14.492  1.00 26.18       HS8
ATOM  41971  N   ARG H 125     122.595 117.901 -13.501  1.00 24.25       HS8
ATOM  41972  CA  ARG H 125     122.296 117.332 -12.205  1.00 24.25       HS8
ATOM  41973  CB  ARG H 125     123.313 117.806 -11.167  1.00110.30       HS8
ATOM  41974  CG  ARG H 125     123.212 117.070  -9.849  1.00110.30       HS8
ATOM  41975  CD  ARG H 125     124.372 117.388  -8.919  1.00110.30       HS8
ATOM  41976  NE  ARG H 125     125.671 116.985  -9.462  1.00110.30       HS8
ATOM  41977  CZ  ARG H 125     126.441 117.754 -10.227  1.00110.30       HS8
ATOM  41978  NH1 ARG H 125     126.051 118.979 -10.548  1.00110.30       HS8
ATOM  41979  NH2 ARG H 125     127.608 117.301 -10.666  1.00110.30       HS8
ATOM  41980  C   ARG H 125     120.894 117.780 -11.829  1.00 24.25       HS8
ATOM  41981  O   ARG H 125     119.975 116.961 -11.735  1.00 24.25       HS8
ATOM  41982  N   LYS H 126     120.737 119.087 -11.621  1.00 55.78       HS8
ATOM  41983  CA  LYS H 126     119.452 119.690 -11.266  1.00 55.78       HS8
ATOM  41984  CB  LYS H 126     119.520 121.202 -11.493  1.00195.07       HS8
ATOM  41985  CG  LYS H 126     118.171 121.892 -11.616  1.00195.07       HS8
ATOM  41986  CD  LYS H 126     118.344 123.325 -12.095  1.00195.07       HS8
ATOM  41987  CE  LYS H 126     117.005 124.009 -12.310  1.00195.07       HS8
ATOM  41988  NZ  LYS H 126     117.178 125.403 -12.805  1.00195.07       HS8
ATOM  41989  C   LYS H 126     118.342 119.099 -12.122  1.00 55.78       HS8
ATOM  41990  O   LYS H 126     117.226 118.890 -11.658  1.00 55.78       HS8
ATOM  41991  N   LEU H 127     118.682 118.826 -13.377  1.00 31.53       HS8
ATOM  41992  CA  LEU H 127     117.770 118.276 -14.369  1.00 31.53       HS8
ATOM  41993  CB  LEU H 127     118.304 118.585 -15.759  1.00 33.02       HS8
ATOM  41994  CG  LEU H 127     117.393 119.331 -16.711  1.00 33.02       HS8
ATOM  41995  CD1 LEU H 127     116.158 118.505 -16.958  1.00 33.02       HS8
ATOM  41996  CD2 LEU H 127     117.066 120.685 -16.119  1.00 33.02       HS8
ATOM  41997  C   LEU H 127     117.573 116.772 -14.254  1.00 31.53       HS8
ATOM  41998  O   LEU H 127     116.777 116.201 -14.986  1.00 31.53       HS8
ATOM  41999  N   GLY H 128     118.323 116.130 -13.367  1.00 40.08       HS8
ATOM  42000  CA  GLY H 128     118.190 114.695 -13.171  1.00 40.08       HS8
ATOM  42001  C   GLY H 128     118.659 113.764 -14.280  1.00 40.08       HS8
ATOM  42002  O   GLY H 128     118.143 112.649 -14.411  1.00 40.08       HS8
ATOM  42003  N   VAL H 129     119.648 114.189 -15.062  1.00 59.65       HS8
ATOM  42004  CA  VAL H 129     120.143 113.350 -16.149  1.00 59.65       HS8
ATOM  42005  CB  VAL H 129     119.639 113.840 -17.483  1.00  8.51       HS8
ATOM  42006  CG1 VAL H 129     118.146 114.042 -17.421  1.00  8.51       HS8
ATOM  42007  CG2 VAL H 129     120.367 115.118 -17.845  1.00  8.51       HS8
ATOM  42008  C   VAL H 129     121.654 113.274 -16.280  1.00 59.65       HS8
ATOM  42009  O   VAL H 129     122.390 114.083 -15.718  1.00 59.65       HS8
ATOM  42010  N   GLY H 130     122.098 112.295 -17.061  1.00 36.26       HS8
ATOM  42011  CA  GLY H 130     123.512 112.111 -17.303  1.00 36.26       HS8
ATOM  42012  C   GLY H 130     123.730 112.025 -18.798  1.00 36.26       HS8
ATOM  42013  O   GLY H 130     122.776 112.185 -19.569  1.00 36.26       HS8
ATOM  42014  N   GLY H 131     124.971 111.771 -19.213  1.00 24.59       HS8
ATOM  42015  CA  GLY H 131     125.262 111.666 -20.633  1.00 24.59       HS8
ATOM  42016  C   GLY H 131     126.737 111.672 -20.958  1.00 24.59       HS8
ATOM  42017  O   GLY H 131     127.563 111.455 -20.085  1.00 24.59       HS8
ATOM  42018  N   GLU H 132     127.065 111.911 -22.220  1.00 26.89       HS8
ATOM  42019  CA  GLU H 132     128.451 111.953 -22.668  1.00 26.89       HS8
ATOM  42020  CB  GLU H 132     128.487 112.155 -24.182  1.00 51.10       HS8
ATOM  42021  CG  GLU H 132     129.799 111.820 -24.846  1.00 51.10       HS8
ATOM  42022  CD  GLU H 132     129.650 111.631 -26.352  1.00 51.10       HS8
ATOM  42023  OE1 GLU H 132     129.090 110.593 -26.788  1.00 51.10       HS8
ATOM  42024  OE2 GLU H 132     130.089 112.532 -27.104  1.00 51.10       HS8
ATOM  42025  C   GLU H 132     129.129 113.115 -21.947  1.00 26.89       HS8
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ATOM  42026  O   GLU H 132     128.615 114.237 -21.953  1.00 26.89       HS8
ATOM  42027  N   LEU H 133     130.276 112.840 -21.323  1.00 12.86       HS8
ATOM  42028  CA  LEU H 133     131.018 113.847 -20.567  1.00 12.86       HS8
ATOM  42029  CB  LEU H 133     131.911 113.165 -19.531  1.00 14.31       HS8
ATOM  42030  CG  LEU H 133     131.883 113.847 -18.162  1.00 14.31       HS8
ATOM  42031  CD1 LEU H 133     133.035 113.375 -17.314  1.00 14.31       HS8
ATOM  42032  CD2 LEU H 133     131.961 115.353 -18.341  1.00 14.31       HS8
ATOM  42033  C   LEU H 133     131.876 114.800 -21.397  1.00 12.86       HS8
ATOM  42034  O   LEU H 133     132.994 115.116 -21.004  1.00 12.86       HS8
ATOM  42035  N   ILE H 134     131.341 115.264 -22.527  1.00 48.76       HS8
ATOM  42036  CA  ILE H 134     132.030 116.180 -23.452  1.00 48.76       HS8
ATOM  42037  CB  ILE H 134     131.140 117.366 -23.797  1.00 56.83       HS8
ATOM  42038  CG2 ILE H 134     131.843 118.280 -24.790  1.00 56.83       HS8
ATOM  42039  CG1 ILE H 134     129.820 116.844 -24.352  1.00 56.83       HS8
ATOM  42040  CD1 ILE H 134     128.800 117.916 -24.615  1.00 56.83       HS8
ATOM  42041  C   ILE H 134     133.370 116.736 -23.002  1.00 48.76       HS8
ATOM  42042  O   ILE H 134     134.395 116.085 -23.134  1.00 48.76       HS8
ATOM  42043  N   CYS H 135     133.362 117.952 -22.485  1.00 32.13       HS8
ATOM  42044  CA  CYS H 135     134.593 118.563 -22.033  1.00 32.13       HS8
ATOM  42045  CB  CYS H 135     134.797 119.901 -22.735  1.00 37.37       HS8
ATOM  42046  SG  CYS H 135     134.159 121.293 -21.833  1.00 37.37       HS8
ATOM  42047  C   CYS H 135     134.557 118.757 -20.521  1.00 32.13       HS8
ATOM  42048  O   CYS H 135     133.716 118.175 -19.850  1.00 32.13       HS8
ATOM  42049  N   GLU H 136     135.457 119.578 -19.988  1.00 20.40       HS8
ATOM  42050  CA  GLU H 136     135.517 119.810 -18.554  1.00 20.40       HS8
ATOM  42051  CB  GLU H 136     136.166 118.616 -17.862  1.00 53.06       HS8
ATOM  42052  CG  GLU H 136     136.570 118.867 -16.414  1.00 53.06       HS8
ATOM  42053  CD  GLU H 136     137.985 118.376 -16.088  1.00 53.06       HS8
ATOM  42054  OE1 GLU H 136     138.964 118.934 -16.641  1.00 53.06       HS8
ATOM  42055  OE2 GLU H 136     138.120 117.428 -15.275  1.00 53.06       HS8
ATOM  42056  C   GLU H 136     136.347 121.044 -18.268  1.00 20.40       HS8
ATOM  42057  O   GLU H 136     137.500 120.914 -17.896  1.00 20.40       HS8
ATOM  42058  N   VAL H 137     135.770 122.235 -18.415  1.00 30.58       HS8
ATOM  42059  CA  VAL H 137     136.492 123.491 -18.174  1.00 30.58       HS8
ATOM  42060  CB  VAL H 137     135.990 124.594 -19.083  1.00 34.53       HS8
ATOM  42061  CG1 VAL H 137     136.531 125.944 -18.599  1.00 34.53       HS8
ATOM  42062  CG2 VAL H 137     136.402 124.309 -20.499  1.00 34.53       HS8
ATOM  42063  C   VAL H 137     136.426 124.093 -16.783  1.00 30.58       HS8
ATOM  42064  O   VAL H 137     135.351 124.232 -16.222  1.00 30.58       HS8
ATOM  42065  N   TRP H 138     137.577 124.472 -16.240  1.00 23.27       HS8
ATOM  42066  CA  TRP H 138     137.606 125.136 -14.944  1.00 23.27       HS8
ATOM  42067  CB  TRP H 138     137.934 124.181 -13.773  1.00 49.18       HS8
ATOM  42068  CG  TRP H 138     139.272 123.497 -13.731  1.00 49.18       HS8
ATOM  42069  CD2 TRP H 138     140.467 123.991 -13.133  1.00 49.18       HS8
ATOM  42070  CE2 TRP H 138     141.448 122.985 -13.262  1.00 49.18       HS8
ATOM  42071  CE3 TRP H 138     140.806 125.187 -12.500  1.00 49.18       HS8
ATOM  42072  CD1 TRP H 138     139.568 122.242 -14.186  1.00 49.18       HS8
ATOM  42073  NE1 TRP H 138     140.874 121.925 -13.906  1.00 49.18       HS8
ATOM  42074  CZ2 TRP H 138     142.742 123.143 -12.785  1.00 49.18       HS8
ATOM  42075  CZ3 TRP H 138     142.090 125.347 -12.024  1.00 49.18       HS8
ATOM  42076  CH2 TRP H 138     143.048 124.330 -12.171  1.00 49.18       HS8
ATOM  42077  C   TRP H 138     138.549 126.335 -14.956  1.00 23.27       HS8
ATOM  42078  O   TRP H 138     138.530 127.068 -15.974  1.00 23.27       HS8
ATOM  42079  OXT TRP H 138     139.256 126.563 -13.956  1.00 49.18       HS8
TER   42079       TRP H 138                                              HS8
ATOM  42080  CB  GLU I   2     243.671 181.195  -4.538  1.00 99.44       IS9
ATOM  42081  CG  GLU I   2     244.910 180.407  -4.099  1.00 99.44       IS9
ATOM  42082  CD  GLU I   2     244.609 179.386  -3.008  1.00 99.44       IS9
ATOM  42083  OE1 GLU I   2     245.530 178.631  -2.615  1.00 99.44       IS9
ATOM  42084  OE2 GLU I   2     243.453 179.347  -2.537  1.00 99.44       IS9
ATOM  42085  C   GLU I   2     242.877 179.106  -5.644  1.00126.85       IS9
ATOM  42086  O   GLU I   2     243.869 178.423  -5.895  1.00126.85       IS9
ATOM  42087  N   GLU I   2     241.606 181.252  -5.908  1.00126.85       IS9
ATOM  42088  CA  GLU I   2     242.948 180.622  -5.762  1.00126.85       IS9
ATOM  42089  N   GLN I   3     241.713 178.578  -5.267  1.00121.70       IS9
ATOM  42090  CA  GLN I   3     241.551 177.130  -5.119  1.00121.70       IS9
ATOM  42091  CB  GLN I   3     241.764 176.718  -3.662  1.00 59.08       IS9
ATOM  42092  CG  GLN I   3     242.567 175.440  -3.489  1.00 59.08       IS9
ATOM  42093  CD  GLN I   3     242.568 174.960  -2.051  1.00 59.08       IS9
ATOM  42094  OE1 GLN I   3     243.382 174.118  -1.660  1.00 59.08       IS9
ATOM  42095  NE2 GLN I   3     241.641 175.490  -1.253  1.00 59.08       IS9
ATOM  42096  C   GLN I   3     240.185 176.632  -5.573  1.00121.70       IS9
ATOM  42097  O   GLN I   3     239.225 177.394  -5.648  1.00121.70       IS9
ATOM  42098  N   TYR I   4     240.114 175.338  -5.864  1.00103.85       IS9
ATOM  42099  CA  TYR I   4     238.877 174.706  -6.304  1.00103.85       IS9
ATOM  42100  CB  TYR I   4     238.831 174.681  -7.827  1.00123.16       IS9
ATOM  42101  CG  TYR I   4     238.771 176.074  -8.401  1.00123.16       IS9
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ATOM  42102  CD1 TYR I   4     239.728 176.522  -9.306  1.00123.16       IS9
ATOM  42103  CE1 TYR I   4     239.687 177.817  -9.811  1.00123.16       IS9
ATOM  42104  CD2 TYR I   4     237.766 176.958  -8.015  1.00123.16       IS9
ATOM  42105  CE2 TYR I   4     237.716 178.251  -8.512  1.00123.16       IS9
ATOM  42106  CZ  TYR I   4     238.677 178.674  -9.408  1.00123.16       IS9
ATOM  42107  OH  TYR I   4     238.620 179.951  -9.914  1.00123.16       IS9
ATOM  42108  C   TYR I   4     238.743 173.305  -5.714  1.00103.85       IS9
ATOM  42109  O   TYR I   4     239.742 172.671  -5.356  1.00103.85       IS9
ATOM  42110  N   TYR I   5     237.510 172.811  -5.626  1.00126.04       IS9
ATOM  42111  CA  TYR I   5     237.293 171.517  -5.000  1.00126.04       IS9
ATOM  42112  CB  TYR I   5     237.283 171.745  -3.488  1.00 62.59       IS9
ATOM  42113  CG  TYR I   5     236.889 170.575  -2.620  1.00 62.59       IS9
ATOM  42114  CD1 TYR I   5     235.554 170.252  -2.412  1.00 62.59       IS9
ATOM  42115  CE1 TYR I   5     235.197 169.236  -1.541  1.00 62.59       IS9
ATOM  42116  CD2 TYR I   5     237.857 169.844  -1.943  1.00 62.59       IS9
ATOM  42117  CE2 TYR I   5     237.517 168.833  -1.072  1.00 62.59       IS9
ATOM  42118  CZ  TYR I   5     236.186 168.531  -0.869  1.00 62.59       IS9
ATOM  42119  OH  TYR I   5     235.853 167.538   0.025  1.00 62.59       IS9
ATOM  42120  C   TYR I   5     236.069 170.707  -5.412  1.00126.04       IS9
ATOM  42121  O   TYR I   5     235.080 171.233  -5.912  1.00126.04       IS9
ATOM  42122  N   GLY I   6     236.176 169.404  -5.179  1.00 83.39       IS9
ATOM  42123  CA  GLY I   6     235.121 168.458  -5.474  1.00 83.39       IS9
ATOM  42124  C   GLY I   6     235.500 167.219  -4.686  1.00 83.39       IS9
ATOM  42125  O   GLY I   6     236.687 167.001  -4.432  1.00 83.39       IS9
ATOM  42126  N   THR I   7     234.527 166.408  -4.285  1.00168.18       IS9
ATOM  42127  CA  THR I   7     234.854 165.213  -3.517  1.00168.18       IS9
ATOM  42128  CB  THR I   7     233.733 164.854  -2.512  1.00 61.73       IS9
ATOM  42129  OG1 THR I   7     233.451 165.985  -1.682  1.00 61.73       IS9
ATOM  42130  CG2 THR I   7     234.176 163.730  -1.601  1.00 61.73       IS9
ATOM  42131  C   THR I   7     235.137 164.012  -4.416  1.00168.18       IS9
ATOM  42132  O   THR I   7     236.175 163.952  -5.070  1.00168.18       IS9
ATOM  42133  N   GLY I   8     234.214 163.061  -4.457  1.00 66.06       IS9
ATOM  42134  CA  GLY I   8     234.424 161.874  -5.266  1.00 66.06       IS9
ATOM  42135  C   GLY I   8     234.288 160.615  -4.428  1.00 66.06       IS9
ATOM  42136  O   GLY I   8     235.084 160.365  -3.518  1.00 66.06       IS9
ATOM  42137  N   ARG I   9     233.264 159.825  -4.727  1.00 69.03       IS9
ATOM  42138  CA  ARG I   9     233.020 158.588  -4.002  1.00 69.03       IS9
ATOM  42139  CB  ARG I   9     231.914 158.785  -2.965  1.00 81.87       IS9
ATOM  42140  CG  ARG I   9     232.433 159.119  -1.580  1.00 81.87       IS9
ATOM  42141  CD  ARG I   9     231.303 159.495  -0.641  1.00 81.87       IS9
ATOM  42142  NE  ARG I   9     230.636 160.714  -1.082  1.00 81.87       IS9
ATOM  42143  CZ  ARG I   9     230.312 161.713  -0.271  1.00 81.87       IS9
ATOM  42144  NH1 ARG I   9     230.598 161.625   1.022  1.00 81.87       IS9
ATOM  42145  NH2 ARG I   9     229.713 162.801  -0.749  1.00 81.87       IS9
ATOM  42146  C   ARG I   9     232.649 157.447  -4.935  1.00 69.03       IS9
ATOM  42147  O   ARG I   9     231.914 157.630  -5.910  1.00 69.03       IS9
ATOM  42148  N   ARG I  10     233.160 156.262  -4.630  1.00 45.53       IS9
ATOM  42149  CA  ARG I  10     232.880 155.102  -5.459  1.00 45.53       IS9
ATOM  42150  CB  ARG I  10     233.658 155.203  -6.775  1.00103.47       IS9
ATOM  42151  CG  ARG I  10     233.851 153.882  -7.503  1.00103.47       IS9
ATOM  42152  CD  ARG I  10     232.538 153.136  -7.688  1.00103.47       IS9
ATOM  42153  NE  ARG I  10     232.696 152.020  -8.608  1.00103.47       IS9
ATOM  42154  CZ  ARG I  10     233.061 152.162  -9.877  1.00103.47       IS9
ATOM  42155  NH1 ARG I  10     233.300 153.370 -10.367  1.00103.47       IS9
ATOM  42156  NH2 ARG I  10     233.193 151.103 -10.658  1.00103.47       IS9
ATOM  42157  C   ARG I  10     233.178 153.766  -4.800  1.00 45.53       IS9
ATOM  42158  O   ARG I  10     234.322 153.463  -4.488  1.00 45.53       IS9
ATOM  42159  N   LYS I  11     232.134 152.976  -4.584  1.00 52.66       IS9
ATOM  42160  CA  LYS I  11     232.317 151.657  -4.019  1.00 52.66       IS9
ATOM  42161  CB  LYS I  11     233.070 150.811  -5.056  1.00 49.49       IS9
ATOM  42162  CG  LYS I  11     233.119 149.309  -4.824  1.00 49.49       IS9
ATOM  42163  CD  LYS I  11     233.755 148.663  -6.047  1.00 49.49       IS9
ATOM  42164  CE  LYS I  11     233.879 147.160  -5.921  1.00 49.49       IS9
ATOM  42165  NZ  LYS I  11     234.451 146.623  -7.176  1.00 49.49       IS9
ATOM  42166  C   LYS I  11     233.087 151.737  -2.700  1.00 52.66       IS9
ATOM  42167  O   LYS I  11     234.038 150.993  -2.471  1.00 52.66       IS9
ATOM  42168  N   GLU I  12     232.668 152.650  -1.836  1.00 71.63       IS9
ATOM  42169  CA  GLU I  12     233.307 152.835  -0.535  1.00 71.63       IS9
ATOM  42170  CB  GLU I  12     233.386 151.499   0.219  1.00148.85       IS9
ATOM  42171  CG  GLU I  12     233.486 151.659   1.733  1.00148.85       IS9
ATOM  42172  CD  GLU I  12     232.546 150.730   2.496  1.00148.85       IS9
ATOM  42173  OE1 GLU I  12     232.752 149.503   2.441  1.00148.85       IS9
ATOM  42174  OE2 GLU I  12     231.598 151.225   3.151  1.00148.85       IS9
ATOM  42175  C   GLU I  12     234.697 153.481  -0.628  1.00 71.63       IS9
ATOM  42176  O   GLU I  12     235.676 152.980  -0.069  1.00 71.63       IS9
ATOM  42177  N   ALA I  13     234.759 154.610  -1.331  1.00 98.96       IS9
ATOM  42178  CA  ALA I  13     236.000 155.357  -1.505  1.00 98.96       IS9
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ATOM  42179  CB  ALA I  13     236.694 154.919  -2.777  1.00 48.31       IS9
ATOM  42180  C   ALA I  13     235.727 156.861  -1.556  1.00 98.96       IS9
ATOM  42181  O   ALA I  13     234.866 157.317  -2.311  1.00 98.96       IS9
ATOM  42182  N   VAL I  14     236.462 157.624  -0.748  1.00 43.10       IS9
ATOM  42183  CA  VAL I  14     236.314 159.078  -0.702  1.00 43.10       IS9
ATOM  42184  CB  VAL I  14     235.999 159.555   0.734  1.00118.21       IS9
ATOM  42185  CG1 VAL I  14     235.900 161.069   0.770  1.00118.21       IS9
ATOM  42186  CG2 VAL I  14     234.694 158.938   1.210  1.00118.21       IS9
ATOM  42187  C   VAL I  14     237.589 159.777  -1.210  1.00 43.10       IS9
ATOM  42188  O   VAL I  14     238.707 159.477  -0.775  1.00 43.10       IS9
ATOM  42189  N   ALA I  15     237.413 160.709  -2.135  1.00125.65       IS9
ATOM  42190  CA  ALA I  15     238.554 161.405  -2.697  1.00125.65       IS9
ATOM  42191  CB  ALA I  15     238.731 160.991  -4.152  1.00 59.86       IS9
ATOM  42192  C   ALA I  15     238.459 162.923  -2.596  1.00125.65       IS9
ATOM  42193  O   ALA I  15     237.667 163.548  -3.300  1.00125.65       IS9
ATOM  42194  N   ARG I  16     239.264 163.515  -1.717  1.00 89.94       IS9
ATOM  42195  CA  ARG I  16     239.275 164.964  -1.573  1.00 89.94       IS9
ATOM  42196  CB  ARG I  16     239.957 165.370  -0.270  1.00102.22       IS9
ATOM  42197  CG  ARG I  16     239.372 164.719   0.955  1.00102.22       IS9
ATOM  42198  CD  ARG I  16     239.925 165.347   2.210  1.00102.22       IS9
ATOM  42199  NE  ARG I  16     239.725 164.488   3.372  1.00102.22       IS9
ATOM  42200  CZ  ARG I  16     240.133 164.792   4.599  1.00102.22       IS9
ATOM  42201  NH1 ARG I  16     240.758 165.939   4.818  1.00102.22       IS9
ATOM  42202  NH2 ARG I  16     239.927 163.950   5.602  1.00102.22       IS9
ATOM  42203  C   ARG I  16     240.069 165.488  -2.761  1.00 89.94       IS9
ATOM  42204  O   ARG I  16     241.207 165.073  -2.984  1.00 89.94       IS9
ATOM  42205  N   VAL I  17     239.471 166.387  -3.531  1.00 85.79       IS9
ATOM  42206  CA  VAL I  17     240.152 166.920  -4.698  1.00 85.79       IS9
ATOM  42207  CB  VAL I  17     239.393 166.549  -5.979  1.00 64.48       IS9
ATOM  42208  CG1 VAL I  17     240.296 166.738  -7.191  1.00 64.48       IS9
ATOM  42209  CG2 VAL I  17     238.914 165.113  -5.888  1.00 64.48       IS9
ATOM  42210  C   VAL I  17     240.335 168.433  -4.632  1.00 85.79       IS9
ATOM  42211  O   VAL I  17     239.368 169.187  -4.531  1.00 85.79       IS9
ATOM  42212  N   PHE I  18     241.591 168.865  -4.697  1.00 73.78       IS9
ATOM  42213  CA  PHE I  18     241.940 170.279  -4.628  1.00 73.78       IS9
ATOM  42214  CB  PHE I  18     242.878 170.531  -3.446  1.00 61.15       IS9
ATOM  42215  CG  PHE I  18     242.222 170.383  -2.100  1.00 61.15       IS9
ATOM  42216  CD1 PHE I  18     242.881 169.732  -1.063  1.00 61.15       IS9
ATOM  42217  CD2 PHE I  18     240.967 170.930  -1.854  1.00 61.15       IS9
ATOM  42218  CE1 PHE I  18     242.300 169.629   0.202  1.00 61.15       IS9
ATOM  42219  CE2 PHE I  18     240.381 170.832  -0.594  1.00 61.15       IS9
ATOM  42220  CZ  PHE I  18     241.047 170.183   0.434  1.00 61.15       IS9
ATOM  42221  C   PHE I  18     242.625 170.736  -5.896  1.00 73.78       IS9
ATOM  42222  O   PHE I  18     243.737 170.304  -6.200  1.00 73.78       IS9
ATOM  42223  N   LEU I  19     241.957 171.610  -6.633  1.00 95.85       IS9
ATOM  42224  CA  LEU I  19     242.531 172.143  -7.855  1.00 95.85       IS9
ATOM  42225  CB  LEU I  19     241.475 172.240  -8.957  1.00105.57       IS9
ATOM  42226  CG  LEU I  19     240.981 170.909  -9.523  1.00105.57       IS9
ATOM  42227  CD1 LEU I  19     239.909 171.165 -10.573  1.00105.57       IS9
ATOM  42228  CD2 LEU I  19     242.149 170.149 -10.127  1.00105.57       IS9
ATOM  42229  C   LEU I  19     243.112 173.522  -7.579  1.00 95.85       IS9
ATOM  42230  O   LEU I  19     242.595 174.285  -6.761  1.00 95.85       IS9
ATOM  42231  N   ARG I  20     244.202 173.832  -8.261  1.00140.77       IS9
ATOM  42232  CA  ARG I  20     244.853 175.113  -8.089  1.00140.77       IS9
ATOM  42233  CB  ARG I  20     245.904 175.014  -6.983  1.00133.39       IS9
ATOM  42234  CG  ARG I  20     245.354 174.539  -5.643  1.00133.39       IS9
ATOM  42235  CD  ARG I  20     246.471 174.327  -4.628  1.00133.39       IS9
ATOM  42236  NE  ARG I  20     245.978 173.826  -3.345  1.00133.39       IS9
ATOM  42237  CZ  ARG I  20     246.761 173.490  -2.322  1.00133.39       IS9
ATOM  42238  NH1 ARG I  20     248.080 173.600  -2.427  1.00133.39       IS9
ATOM  42239  NH2 ARG I  20     246.229 173.041  -1.194  1.00133.39       IS9
ATOM  42240  C   ARG I  20     245.511 175.450  -9.415  1.00140.77       IS9
ATOM  42241  O   ARG I  20     246.042 174.566 -10.087  1.00140.77       IS9
ATOM  42242  N   PRO I  21     245.464 176.727  -9.827  1.00102.91       IS9
ATOM  42243  CD  PRO I  21     244.813 177.907  -9.234  1.00 98.06       IS9
ATOM  42244  CA  PRO I  21     246.098 177.065 -11.102  1.00102.91       IS9
ATOM  42245  CB  PRO I  21     245.848 178.565 -11.225  1.00 98.06       IS9
ATOM  42246  CG  PRO I  21     244.576 178.769 -10.445  1.00 98.06       IS9
ATOM  42247  C   PRO I  21     247.577 176.732 -10.984  1.00102.91       IS9
ATOM  42248  O   PRO I  21     248.211 177.077  -9.983  1.00102.91       IS9
ATOM  42249  N   GLY I  22     248.122 176.046 -11.987  1.00143.35       IS9
ATOM  42250  CA  GLY I  22     249.529 175.689 -11.939  1.00143.35       IS9
ATOM  42251  C   GLY I  22     250.034 174.843 -13.091  1.00143.35       IS9
ATOM  42252  O   GLY I  22     249.413 174.773 -14.152  1.00143.35       IS9
ATOM  42253  N   ASN I  23     251.176 174.201 -12.867  1.00150.07       IS9
ATOM  42254  CA  ASN I  23     251.816 173.346 -13.861  1.00150.07       IS9
ATOM  42255  CB  ASN I  23     253.065 172.700 -13.251  1.00173.45       IS9
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ATOM  42256  CG  ASN I  23     253.775 171.761 -14.210  1.00173.45       IS9
ATOM  42257  OD1 ASN I  23     254.773 171.134 -13.852  1.00173.45       IS9
ATOM  42258  ND2 ASN I  23     253.265 171.658 -15.433  1.00173.45       IS9
ATOM  42259  C   ASN I  23     250.873 172.261 -14.377  1.00150.07       IS9
ATOM  42260  O   ASN I  23     250.440 172.294 -15.531  1.00150.07       IS9
ATOM  42261  N   GLY I  24     250.568 171.299 -13.513  1.00152.71       IS9
ATOM  42262  CA  GLY I  24     249.688 170.208 -13.888  1.00152.71       IS9
ATOM  42263  C   GLY I  24     250.080 168.933 -13.171  1.00152.71       IS9
ATOM  42264  O   GLY I  24     249.714 167.835 -13.593  1.00152.71       IS9
ATOM  42265  N   LYS I  25     250.833 169.086 -12.084  1.00 79.86       IS9
ATOM  42266  CA  LYS I  25     251.291 167.950 -11.289  1.00 79.86       IS9
ATOM  42267  CB  LYS I  25     252.655 168.249 -10.651  1.00190.91       IS9
ATOM  42268  CG  LYS I  25     252.626 169.300  -9.550  1.00190.91       IS9
ATOM  42269  CD  LYS I  25     254.012 169.558  -8.971  1.00190.91       IS9
ATOM  42270  CE  LYS I  25     254.946 170.181  -9.999  1.00190.91       IS9
ATOM  42271  NZ  LYS I  25     256.285 170.488  -9.421  1.00190.91       IS9
ATOM  42272  C   LYS I  25     250.268 167.637 -10.202  1.00 79.86       IS9
ATOM  42273  O   LYS I  25     249.616 168.540  -9.676  1.00 79.86       IS9
ATOM  42274  N   VAL I  26     250.137 166.356  -9.865  1.00 77.01       IS9
ATOM  42275  CA  VAL I  26     249.170 165.934  -8.861  1.00 77.01       IS9
ATOM  42276  CB  VAL I  26     248.036 165.124  -9.493  1.00 67.60       IS9
ATOM  42277  CG1 VAL I  26     246.927 164.930  -8.473  1.00 67.60       IS9
ATOM  42278  CG2 VAL I  26     247.531 165.816 -10.751  1.00 67.60       IS9
ATOM  42279  C   VAL I  26     249.746 165.084  -7.746  1.00 77.01       IS9
ATOM  42280  O   VAL I  26     250.310 164.021  -7.983  1.00 77.01       IS9
ATOM  42281  N   THR I  27     249.589 165.559  -6.521  1.00 70.79       IS9
ATOM  42282  CA  THR I  27     250.068 164.822  -5.370  1.00 70.79       IS9
ATOM  42283  CB  THR I  27     250.471 165.763  -4.230  1.00201.26       IS9
ATOM  42284  OG1 THR I  27     251.591 166.557  -4.639  1.00201.26       IS9
ATOM  42285  CG2 THR I  27     250.836 164.968  -2.989  1.00201.26       IS9
ATOM  42286  C   THR I  27     248.876 164.007  -4.928  1.00 70.79       IS9
ATOM  42287  O   THR I  27     247.736 164.456  -5.057  1.00 70.79       IS9
ATOM  42288  N   VAL I  28     249.127 162.811  -4.416  1.00 69.05       IS9
ATOM  42289  CA  VAL I  28     248.034 161.962  -3.967  1.00 69.05       IS9
ATOM  42290  CB  VAL I  28     247.728 160.872  -5.015  1.00 53.45       IS9
ATOM  42291  CG1 VAL I  28     246.728 159.877  -4.465  1.00 53.45       IS9
ATOM  42292  CG2 VAL I  28     247.167 161.521  -6.270  1.00 53.45       IS9
ATOM  42293  C   VAL I  28     248.342 161.315  -2.627  1.00 69.05       IS9
ATOM  42294  O   VAL I  28     248.964 160.259  -2.575  1.00 69.05       IS9
ATOM  42295  N   ASN I  29     247.896 161.948  -1.545  1.00114.17       IS9
ATOM  42296  CA  ASN I  29     248.151 161.421  -0.209  1.00114.17       IS9
ATOM  42297  CB  ASN I  29     247.534 160.032  -0.054  1.00111.87       IS9
ATOM  42298  CG  ASN I  29     246.027 160.066  -0.042  1.00111.87       IS9
ATOM  42299  OD1 ASN I  29     245.372 159.064  -0.323  1.00111.87       IS9
ATOM  42300  ND2 ASN I  29     245.462 161.218   0.300  1.00111.87       IS9
ATOM  42301  C   ASN I  29     249.653 161.314  -0.082  1.00114.17       IS9
ATOM  42302  O   ASN I  29     250.172 160.547   0.728  1.00114.17       IS9
ATOM  42303  N   GLY I  30     250.345 162.095  -0.902  1.00 78.42       IS9
ATOM  42304  CA  GLY I  30     251.791 162.068  -0.904  1.00 78.42       IS9
ATOM  42305  C   GLY I  30     252.268 161.630  -2.274  1.00 78.42       IS9
ATOM  42306  O   GLY I  30     252.066 162.350  -3.254  1.00 78.42       IS9
ATOM  42307  N   GLN I  31     252.877 160.446  -2.338  1.00 72.83       IS9
ATOM  42308  CA  GLN I  31     253.407 159.885  -3.582  1.00 72.83       IS9
ATOM  42309  CB  GLN I  31     253.091 158.388  -3.670  1.00201.26       IS9
ATOM  42310  CG  GLN I  31     253.811 157.528  -2.641  1.00201.26       IS9
ATOM  42311  CD  GLN I  31     253.561 156.041  -2.842  1.00201.26       IS9
ATOM  42312  OE1 GLN I  31     252.420 155.580  -2.792  1.00201.26       IS9
ATOM  42313  NE2 GLN I  31     254.630 155.283  -3.072  1.00201.26       IS9
ATOM  42314  C   GLN I  31     252.884 160.581  -4.829  1.00 72.83       IS9
ATOM  42315  O   GLN I  31     251.685 160.837  -4.954  1.00 72.83       IS9
ATOM  42316  N   ASP I  32     253.785 160.902  -5.749  1.00 91.02       IS9
ATOM  42317  CA  ASP I  32     253.371 161.553  -6.981  1.00 91.02       IS9
ATOM  42318  CB  ASP I  32     254.560 161.680  -7.939  1.00156.38       IS9
ATOM  42319  CG  ASP I  32     254.239 162.515  -9.167  1.00156.38       IS9
ATOM  42320  OD1 ASP I  32     253.816 163.679  -9.005  1.00156.38       IS9
ATOM  42321  OD2 ASP I  32     254.416 162.009 -10.294  1.00156.38       IS9
ATOM  42322  C   ASP I  32     252.288 160.664  -7.588  1.00 91.02       IS9
ATOM  42323  O   ASP I  32     252.311 159.446  -7.415  1.00 91.02       IS9
ATOM  42324  N   PHE I  33     251.326 161.270  -8.272  1.00117.16       IS9
ATOM  42325  CA  PHE I  33     250.249 160.508  -8.892  1.00117.16       IS9
ATOM  42326  CB  PHE I  33     249.551 161.361  -9.939  1.00 55.66       IS9
ATOM  42327  CG  PHE I  33     248.383 160.692 -10.595  1.00 55.66       IS9
ATOM  42328  CD1 PHE I  33     247.280 160.307  -9.854  1.00 55.66       IS9
ATOM  42329  CD2 PHE I  33     248.350 160.522 -11.972  1.00 55.66       IS9
ATOM  42330  CE1 PHE I  33     246.156 159.774 -10.478  1.00 55.66       IS9
ATOM  42331  CE2 PHE I  33     247.226 159.987 -12.605  1.00 55.66       IS9
ATOM  42332  CZ  PHE I  33     246.129 159.615 -11.856  1.00 55.66       IS9
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ATOM  42333  C   PHE I  33     250.822 159.272  -9.565  1.00117.16      IS9
ATOM  42334  O   PHE I  33     250.469 158.140  -9.229  1.00117.16      IS9
ATOM  42335  N   ASN I  34     251.722 159.513 -10.513  1.00 66.13      IS9
ATOM  42336  CA  ASN I  34     252.368 158.454 -11.276  1.00 66.13      IS9
ATOM  42337  CB  ASN I  34     253.179 159.071 -12.416  1.00136.74      IS9
ATOM  42338  CG  ASN I  34     252.341 159.980 -13.300  1.00136.74      IS9
ATOM  42339  OD1 ASN I  34     251.413 159.527 -13.972  1.00136.74      IS9
ATOM  42340  ND2 ASN I  34     252.662 161.271 -13.299  1.00136.74      IS9
ATOM  42341  C   ASN I  34     253.266 157.614 -10.387  1.00 66.13      IS9
ATOM  42342  O   ASN I  34     254.119 156.885 -10.872  1.00 66.13      IS9
ATOM  42343  N   GLU I  35     253.062 157.719  -9.080  1.00 56.66      IS9
ATOM  42344  CA  GLU I  35     253.857 156.971  -8.119  1.00 56.66      IS9
ATOM  42345  CB  GLU I  35     254.718 157.933  -7.293  1.00201.26      IS9
ATOM  42346  CG  GLU I  35     255.750 157.269  -6.388  1.00201.26      IS9
ATOM  42347  CD  GLU I  35     256.869 156.596  -7.160  1.00201.26      IS9
ATOM  42348  OE1 GLU I  35     257.504 157.269  -8.002  1.00201.26      IS9
ATOM  42349  OE2 GLU I  35     257.120 155.397  -6.920  1.00201.26      IS9
ATOM  42350  C   GLU I  35     252.930 156.176  -7.205  1.00 56.66      IS9
ATOM  42351  O   GLU I  35     253.225 155.024  -6.862  1.00 56.66      IS9
ATOM  42352  N   TYR I  36     251.810 156.789  -6.817  1.00 88.20      IS9
ATOM  42353  CA  TYR I  36     250.826 156.138  -5.945  1.00 88.20      IS9
ATOM  42354  CB  TYR I  36     249.738 157.131  -5.524  1.00 71.16      IS9
ATOM  42355  CG  TYR I  36     248.671 156.549  -4.613  1.00 71.16      IS9
ATOM  42356  CD1 TYR I  36     249.013 155.884  -3.435  1.00 71.16      IS9
ATOM  42357  CE1 TYR I  36     248.036 155.367  -2.590  1.00 71.16      IS9
ATOM  42358  CD2 TYR I  36     247.321 156.680  -4.919  1.00 71.16      IS9
ATOM  42359  CE2 TYR I  36     246.334 156.165  -4.083  1.00 71.16      IS9
ATOM  42360  CZ  TYR I  36     246.699 155.512  -2.923  1.00 71.16      IS9
ATOM  42361  OH  TYR I  36     245.730 154.998  -2.095  1.00 71.16      IS9
ATOM  42362  C   TYR I  36     250.189 154.985  -6.696  1.00 88.20      IS9
ATOM  42363  O   TYR I  36     249.917 153.925  -6.135  1.00 88.20      IS9
ATOM  42364  N   PHE I  37     249.952 155.221  -7.978  1.00 61.92      IS9
ATOM  42365  CA  PHE I  37     249.366 154.233  -8.861  1.00 61.92      IS9
ATOM  42366  CB  PHE I  37     248.336 154.923  -9.752  1.00 65.99      IS9
ATOM  42367  CG  PHE I  37     247.194 155.525  -8.983  1.00 65.99      IS9
ATOM  42368  CD1 PHE I  37     246.526 156.649  -9.462  1.00 65.99      IS9
ATOM  42369  CD2 PHE I  37     246.778 154.959  -7.781  1.00 65.99      IS9
ATOM  42370  CE1 PHE I  37     245.460 157.201  -8.751  1.00 65.99      IS9
ATOM  42371  CE2 PHE I  37     245.717 155.502  -7.072  1.00 65.99      IS9
ATOM  42372  CZ  PHE I  37     245.058 156.626  -7.556  1.00 65.99      IS9
ATOM  42373  C   PHE I  37     250.503 153.636  -9.682  1.00 61.92      IS9
ATOM  42374  O   PHE I  37     250.578 153.799 -10.901  1.00 61.92      IS9
ATOM  42375  N   GLN I  38     251.396 152.942  -8.989  1.00100.80      IS9
ATOM  42376  CA  GLN I  38     252.550 152.339  -9.627  1.00100.80      IS9
ATOM  42377  CB  GLN I  38     253.501 151.782  -8.567  1.00148.66      IS9
ATOM  42378  CG  GLN I  38     254.956 152.154  -8.794  1.00148.66      IS9
ATOM  42379  CD  GLN I  38     255.462 151.752 -10.168  1.00148.66      IS9
ATOM  42380  OE1 GLN I  38     254.921 152.174 -11.193  1.00148.66      IS9
ATOM  42381  NE2 GLN I  38     256.510 150.937 -10.195  1.00148.66      IS9
ATOM  42382  C   GLN I  38     252.177 151.238 -10.606  1.00100.80      IS9
ATOM  42383  O   GLN I  38     251.758 150.153 -10.209  1.00100.80      IS9
ATOM  42384  N   GLY I  39     252.333 151.527 -11.891  1.00115.81      IS9
ATOM  42385  CA  GLY I  39     252.029 150.543 -12.909  1.00115.81      IS9
ATOM  42386  C   GLY I  39     250.657 149.910 -12.802  1.00115.81      IS9
ATOM  42387  O   GLY I  39     250.536 148.712 -12.559  1.00115.81      IS9
ATOM  42388  N   LEU I  40     249.626 150.726 -12.976  1.00 48.26      IS9
ATOM  42389  CA  LEU I  40     248.239 150.275 -12.942  1.00 48.26      IS9
ATOM  42390  CB  LEU I  40     247.564 150.687 -11.635  1.00 83.39      IS9
ATOM  42391  CG  LEU I  40     247.867 149.848 -10.396  1.00 83.39      IS9
ATOM  42392  CD1 LEU I  40     247.340 150.554  -9.159  1.00 83.39      IS9
ATOM  42393  CD2 LEU I  40     247.234 148.469 -10.537  1.00 83.39      IS9
ATOM  42394  C   LEU I  40     247.556 150.985 -14.097  1.00 48.26      IS9
ATOM  42395  O   LEU I  40     246.995 152.068 -13.907  1.00 48.26      IS9
ATOM  42396  N   VAL I  41     247.608 150.387 -15.286  1.00 45.57      IS9
ATOM  42397  CA  VAL I  41     247.015 150.995 -16.478  1.00 45.57      IS9
ATOM  42398  CB  VAL I  41     246.385 149.930 -17.390  1.00 64.88      IS9
ATOM  42399  CG1 VAL I  41     245.709 150.595 -18.578  1.00 64.88      IS9
ATOM  42400  CG2 VAL I  41     247.451 148.975 -17.869  1.00 64.88      IS9
ATOM  42401  C   VAL I  41     245.962 152.057 -16.162  1.00 45.57      IS9
ATOM  42402  O   VAL I  41     246.275 153.248 -16.068  1.00 45.57      IS9
ATOM  42403  N   ARG I  42     244.722 151.600 -16.003  1.00 78.58      IS9
ATOM  42404  CA  ARG I  42     243.563 152.436 -15.689  1.00 78.58      IS9
ATOM  42405  CB  ARG I  42     242.711 151.726 -14.641  1.00 71.93      IS9
ATOM  42406  CG  ARG I  42     241.795 150.656 -15.194  1.00 71.93      IS9
ATOM  42407  CD  ARG I  42     240.385 151.169 -15.176  1.00 71.93      IS9
ATOM  42408  NE  ARG I  42     240.033 151.587 -13.827  1.00 71.93      IS9
ATOM  42409  CZ  ARG I  42     239.025 152.400 -13.539  1.00 71.93      IS9
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ATOM  42410  NH1 ARG I  42     238.262 152.888 -14.509  1.00 71.93       IS9
ATOM  42411  NH2 ARG I  42     238.785 152.733 -12.281  1.00 71.93       IS9
ATOM  42412  C   ARG I  42     243.867 153.846 -15.201  1.00 78.58       IS9
ATOM  42413  O   ARG I  42     243.409 154.825 -15.787  1.00 78.58       IS9
ATOM  42414  N   ALA I  43     244.626 153.927 -14.113  1.00 66.18       IS9
ATOM  42415  CA  ALA I  43     245.014 155.189 -13.494  1.00 66.18       IS9
ATOM  42416  CB  ALA I  43     246.497 155.153 -13.134  1.00144.36       IS9
ATOM  42417  C   ALA I  43     244.726 156.383 -14.381  1.00 66.18       IS9
ATOM  42418  O   ALA I  43     243.881 157.218 -14.058  1.00 66.18       IS9
ATOM  42419  N   VAL I  44     245.437 156.450 -15.501  1.00 41.12       IS9
ATOM  42420  CA  VAL I  44     245.278 157.528 -16.463  1.00 41.12       IS9
ATOM  42421  CB  VAL I  44     245.516 157.038 -17.875  1.00 68.62       IS9
ATOM  42422  CG1 VAL I  44     245.209 158.150 -18.860  1.00 68.62       IS9
ATOM  42423  CG2 VAL I  44     246.946 156.541 -18.009  1.00 68.62       IS9
ATOM  42424  C   VAL I  44     243.876 158.069 -16.409  1.00 41.12       IS9
ATOM  42425  O   VAL I  44     243.676 159.273 -16.339  1.00 41.12       IS9
ATOM  42426  N   ALA I  45     242.908 157.160 -16.447  1.00 66.01       IS9
ATOM  42427  CA  ALA I  45     241.499 157.516 -16.397  1.00 66.01       IS9
ATOM  42428  CB  ALA I  45     240.695 156.347 -15.859  1.00132.33       IS9
ATOM  42429  C   ALA I  45     241.263 158.749 -15.533  1.00 66.01       IS9
ATOM  42430  O   ALA I  45     240.933 159.818 -16.045  1.00 66.01       IS9
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ATOM  42432  CA  ALA I  46     241.250 159.664 -13.249  1.00 57.52       IS9
ATOM  42433  CB  ALA I  46     242.278 159.511 -12.125  1.00 35.55       IS9
ATOM  42434  C   ALA I  46     241.270 161.116 -13.768  1.00 57.52       IS9
ATOM  42435  O   ALA I  46     240.331 161.883 -13.536  1.00 57.52       IS9
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ATOM  42437  CA  LEU I  47     242.489 162.852 -14.962  1.00 71.94       IS9
ATOM  42438  CB  LEU I  47     243.969 163.138 -15.224  1.00 92.62       IS9
ATOM  42439  CG  LEU I  47     244.956 162.666 -14.152  1.00 92.62       IS9
ATOM  42440  CD1 LEU I  47     246.373 162.960 -14.613  1.00 92.62       IS9
ATOM  42441  CD2 LEU I  47     244.667 163.355 -12.827  1.00 92.62       IS9
ATOM  42442  C   LEU I  47     241.687 163.168 -16.219  1.00 71.94       IS9
ATOM  42443  O   LEU I  47     241.698 164.303 -16.698  1.00 71.94       IS9
ATOM  42444  N   GLU I  48     240.982 162.175 -16.747  1.00 71.46       IS9
ATOM  42445  CA  GLU I  48     240.194 162.367 -17.960  1.00 71.46       IS9
ATOM  42446  CB  GLU I  48     239.414 161.092 -18.284  1.00157.47       IS9
ATOM  42447  CG  GLU I  48     239.151 160.889 -19.770  1.00157.47       IS9
ATOM  42448  CD  GLU I  48     240.433 160.797 -20.579  1.00157.47       IS9
ATOM  42449  OE1 GLU I  48     241.172 161.799 -20.641  1.00157.47       IS9
ATOM  42450  OE2 GLU I  48     240.704 159.721 -21.151  1.00157.47       IS9
ATOM  42451  C   GLU I  48     239.240 163.567 -17.900  1.00 71.46       IS9
ATOM  42452  O   GLU I  48     239.009 164.234 -18.909  1.00 71.46       IS9
ATOM  42453  N   PRO I  49     238.662 163.857 -16.724  1.00 80.43       IS9
ATOM  42454  CD  PRO I  49     238.833 163.329 -15.360  1.00 64.48       IS9
ATOM  42455  CA  PRO I  49     237.768 165.013 -16.725  1.00 80.43       IS9
ATOM  42456  CB  PRO I  49     237.320 165.095 -15.268  1.00 64.48       IS9
ATOM  42457  CG  PRO I  49     238.501 164.522 -14.520  1.00 64.48       IS9
ATOM  42458  C   PRO I  49     238.537 166.252 -17.187  1.00 80.43       IS9
ATOM  42459  O   PRO I  49     238.004 167.105 -17.905  1.00 80.43       IS9
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ATOM  42461  CA  LEU I  50     240.651 167.450 -17.160  1.00 54.88       IS9
ATOM  42462  CB  LEU I  50     242.022 167.330 -16.504  1.00 51.84       IS9
ATOM  42463  CG  LEU I  50     242.000 167.423 -14.981  1.00 51.84       IS9
ATOM  42464  CD1 LEU I  50     243.384 167.123 -14.419  1.00 51.84       IS9
ATOM  42465  CD2 LEU I  50     241.520 168.812 -14.574  1.00 51.84       IS9
ATOM  42466  C   LEU I  50     240.814 167.444 -18.665  1.00 54.88       IS9
ATOM  42467  O   LEU I  50     240.335 168.347 -19.344  1.00 54.88       IS9
ATOM  42468  N   ARG I  51     241.482 166.416 -19.180  1.00 62.48       IS9
ATOM  42469  CA  ARG I  51     241.710 166.292 -20.618  1.00 62.48       IS9
ATOM  42470  CB  ARG I  51     242.143 164.867 -20.972  1.00201.13       IS9
ATOM  42471  CG  ARG I  51     243.240 164.291 -20.099  1.00201.13       IS9
ATOM  42472  CD  ARG I  51     243.837 163.046 -20.742  1.00201.13       IS9
ATOM  42473  NE  ARG I  51     244.651 162.278 -19.806  1.00201.13       IS9
ATOM  42474  CZ  ARG I  51     244.155 161.500 -18.850  1.00201.13       IS9
ATOM  42475  NH1 ARG I  51     242.844 161.377 -18.702  1.00201.13       IS9
ATOM  42476  NH2 ARG I  51     244.972 160.850 -18.033  1.00201.13       IS9
ATOM  42477  C   ARG I  51     240.456 166.636 -21.429  1.00 62.48       IS9
ATOM  42478  O   ARG I  51     240.542 167.108 -22.569  1.00 62.48       IS9
ATOM  42479  N   ALA I  52     239.294 166.392 -20.834  1.00 86.89       IS9
ATOM  42480  CA  ALA I  52     238.027 166.652 -21.493  1.00 86.89       IS9
ATOM  42481  CB  ALA I  52     236.908 165.977 -20.726  1.00152.00       IS9
ATOM  42482  C   ALA I  52     237.734 168.140 -21.641  1.00 86.89       IS9
ATOM  42483  O   ALA I  52     236.782 168.524 -22.318  1.00 86.89       IS9
ATOM  42484  N   VAL I  53     238.555 168.979 -21.020  1.00122.54       IS9
ATOM  42485  CA  VAL I  53     238.345 170.420 -21.090  1.00122.54       IS9
ATOM  42486  CB  VAL I  53     237.560 170.893 -19.864  1.00 53.20       IS9
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ATOM  42487  CG1 VAL I  53     236.185 170.271 -19.872  1.00 53.20      IS9
ATOM  42488  CG2 VAL I  53     238.298 170.493 -18.594  1.00 53.20      IS9
ATOM  42489  C   VAL I  53     239.636 171.233 -21.203  1.00122.54      IS9
ATOM  42490  O   VAL I  53     239.735 172.338 -20.666  1.00122.54      IS9
ATOM  42491  N   ASP I  54     240.615 170.681 -21.915  1.00119.87      IS9
ATOM  42492  CA  ASP I  54     241.907 171.330 -22.116  1.00119.87      IS9
ATOM  42493  CB  ASP I  54     241.744 172.610 -22.943  1.00156.20      IS9
ATOM  42494  CG  ASP I  54     241.532 172.327 -24.418  1.00156.20      IS9
ATOM  42495  OD1 ASP I  54     242.338 171.574 -25.003  1.00156.20      IS9
ATOM  42496  OD2 ASP I  54     240.565 172.862 -24.998  1.00156.20      IS9
ATOM  42497  C   ASP I  54     242.657 171.648 -20.826  1.00119.87      IS9
ATOM  42498  O   ASP I  54     243.772 172.171 -20.870  1.00119.87      IS9
ATOM  42499  N   ALA I  55     242.054 171.334 -19.682  1.00 79.10      IS9
ATOM  42500  CA  ALA I  55     242.693 171.586 -18.395  1.00 79.10      IS9
ATOM  42501  CB  ALA I  55     241.745 171.247 -17.260  1.00 96.52      IS9
ATOM  42502  C   ALA I  55     243.948 170.729 -18.307  1.00 79.10      IS9
ATOM  42503  O   ALA I  55     244.542 170.382 -19.334  1.00 79.10      IS9
ATOM  42504  N   LEU I  56     244.337 170.371 -17.087  1.00144.60      IS9
ATOM  42505  CA  LEU I  56     245.539 169.570 -16.867  1.00144.60      IS9
ATOM  42506  CB  LEU I  56     245.618 168.423 -17.882  1.00122.81      IS9
ATOM  42507  CG  LEU I  56     246.498 167.203 -17.590  1.00122.81      IS9
ATOM  42508  CD1 LEU I  56     246.674 166.434 -18.892  1.00122.81      IS9
ATOM  42509  CD2 LEU I  56     247.855 167.609 -17.025  1.00122.81      IS9
ATOM  42510  C   LEU I  56     246.709 170.527 -17.073  1.00144.60      IS9
ATOM  42511  O   LEU I  56     247.335 170.979 -16.112  1.00144.60      IS9
ATOM  42512  N   GLY I  57     246.992 170.835 -18.338  1.00184.43      IS9
ATOM  42513  CA  GLY I  57     248.062 171.762 -18.659  1.00184.43      IS9
ATOM  42514  C   GLY I  57     247.557 173.158 -18.363  1.00184.43      IS9
ATOM  42515  O   GLY I  57     247.595 174.053 -19.209  1.00184.43      IS9
ATOM  42516  N   ARG I  58     247.069 173.325 -17.139  1.00109.51      IS9
ATOM  42517  CA  ARG I  58     246.516 174.584 -16.669  1.00109.51      IS9
ATOM  42518  CB  ARG I  58     245.108 174.783 -17.244  1.00127.69      IS9
ATOM  42519  CG  ARG I  58     245.044 175.500 -18.590  1.00127.69      IS9
ATOM  42520  CD  ARG I  58     245.220 177.005 -18.416  1.00127.69      IS9
ATOM  42521  NE  ARG I  58     244.277 177.559 -17.443  1.00127.69      IS9
ATOM  42522  CZ  ARG I  58     242.965 177.652 -17.631  1.00127.69      IS9
ATOM  42523  NH1 ARG I  58     242.422 177.230 -18.765  1.00127.69      IS9
ATOM  42524  NH2 ARG I  58     242.193 178.157 -16.677  1.00127.69      IS9
ATOM  42525  C   ARG I  58     246.441 174.557 -15.144  1.00109.51      IS9
ATOM  42526  O   ARG I  58     246.936 175.458 -14.464  1.00109.51      IS9
ATOM  42527  N   PHE I  59     245.824 173.511 -14.611  1.00 88.92      IS9
ATOM  42528  CA  PHE I  59     245.675 173.386 -13.173  1.00 88.92      IS9
ATOM  42529  CB  PHE I  59     244.373 172.676 -12.823  1.00 89.45      IS9
ATOM  42530  CG  PHE I  59     243.161 173.515 -13.030  1.00 89.45      IS9
ATOM  42531  CD1 PHE I  59     242.751 173.858 -14.314  1.00 89.45      IS9
ATOM  42532  CD2 PHE I  59     242.445 173.994 -11.941  1.00 89.45      IS9
ATOM  42533  CE1 PHE I  59     241.646 174.669 -14.514  1.00 89.45      IS9
ATOM  42534  CE2 PHE I  59     241.336 174.806 -12.128  1.00 89.45      IS9
ATOM  42535  CZ  PHE I  59     240.937 175.144 -13.419  1.00 89.45      IS9
ATOM  42536  C   PHE I  59     246.808 172.675 -12.480  1.00 88.92      IS9
ATOM  42537  O   PHE I  59     247.977 172.844 -12.819  1.00 88.92      IS9
ATOM  42538  N   ASP I  60     246.429 171.867 -11.502  1.00 95.04      IS9
ATOM  42539  CA  ASP I  60     247.361 171.124 -10.681  1.00 95.04      IS9
ATOM  42540  CB  ASP I  60     248.476 172.058 -10.210  1.00160.54      IS9
ATOM  42541  CG  ASP I  60     249.571 171.336  -9.472  1.00160.54      IS9
ATOM  42542  OD1 ASP I  60     249.281 170.728  -8.421  1.00160.54      IS9
ATOM  42543  OD2 ASP I  60     250.724 171.382  -9.946  1.00160.54      IS9
ATOM  42544  C   ASP I  60     246.481 170.720  -9.508  1.00 95.04      IS9
ATOM  42545  O   ASP I  60     245.560 171.460  -9.152  1.00 95.04      IS9
ATOM  42546  N   ALA I  61     246.739 169.566  -8.900  1.00 56.03      IS9
ATOM  42547  CA  ALA I  61     245.893 169.155  -7.793  1.00 56.03      IS9
ATOM  42548  CB  ALA I  61     244.722 168.362  -8.328  1.00 84.88      IS9
ATOM  42549  C   ALA I  61     246.543 168.389  -6.654  1.00 56.03      IS9
ATOM  42550  O   ALA I  61     247.496 167.628  -6.836  1.00 56.03      IS9
ATOM  42551  N   TYR I  62     246.001 168.624  -5.465  1.00 92.69      IS9
ATOM  42552  CA  TYR I  62     246.434 167.956  -4.249  1.00 92.69      IS9
ATOM  42553  CB  TYR I  62     246.593 168.964  -3.106  1.00 63.56      IS9
ATOM  42554  CG  TYR I  62     246.939 168.351  -1.764  1.00 63.56      IS9
ATOM  42555  CD1 TYR I  62     248.082 167.578  -1.600  1.00 63.56      IS9
ATOM  42556  CE1 TYR I  62     248.395 167.010  -0.366  1.00 63.56      IS9
ATOM  42557  CD2 TYR I  62     246.114 168.546  -0.656  1.00 63.56      IS9
ATOM  42558  CE2 TYR I  62     246.417 167.984   0.583  1.00 63.56      IS9
ATOM  42559  CZ  TYR I  62     247.557 167.214   0.722  1.00 63.56      IS9
ATOM  42560  OH  TYR I  62     247.841 166.623   1.938  1.00 63.56      IS9
ATOM  42561  C   TYR I  62     245.243 167.046  -4.002  1.00 92.69      IS9
ATOM  42562  O   TYR I  62     244.107 167.521  -3.933  1.00 92.69      IS9
ATOM  42563  N   ILE I  63     245.494 165.744  -3.894  1.00 64.05      IS9
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ATOM  42564  CA  ILE I  63     244.412 164.790  -3.702  1.00 64.05       IS9
ATOM  42565  CB  ILE I  63     244.213 163.936  -4.977  1.00 91.52       IS9
ATOM  42566  CG2 ILE I  63     243.292 162.770  -4.689  1.00 91.52       IS9
ATOM  42567  CG1 ILE I  63     243.638 164.807  -6.099  1.00 91.52       IS9
ATOM  42568  CD1 ILE I  63     243.415 164.072  -7.403  1.00 91.52       IS9
ATOM  42569  C   ILE I  63     244.581 163.862  -2.509  1.00 64.05       IS9
ATOM  42570  O   ILE I  63     245.650 163.288  -2.299  1.00 64.05       IS9
ATOM  42571  N   THR I  64     243.504 163.736  -1.735  1.00 91.84       IS9
ATOM  42572  CA  THR I  64     243.463 162.873  -0.560  1.00 91.84       IS9
ATOM  42573  CB  THR I  64     243.054 163.622   0.704  1.00105.17       IS9
ATOM  42574  OG1 THR I  64     244.065 164.575   1.040  1.00105.17       IS9
ATOM  42575  CG2 THR I  64     242.870 162.641   1.858  1.00105.17       IS9
ATOM  42576  C   THR I  64     242.422 161.808  -0.795  1.00 91.84       IS9
ATOM  42577  O   THR I  64     241.225 162.088  -0.766  1.00 91.84       IS9
ATOM  42578  N   VAL I  65     242.885 160.584  -1.016  1.00 46.27       IS9
ATOM  42579  CA  VAL I  65     242.002 159.455  -1.278  1.00 46.27       IS9
ATOM  42580  CB  VAL I  65     242.364 158.796  -2.614  1.00109.36       IS9
ATOM  42581  CG1 VAL I  65     241.503 157.590  -2.832  1.00109.36       IS9
ATOM  42582  CG2 VAL I  65     242.178 159.785  -3.750  1.00109.36       IS9
ATOM  42583  C   VAL I  65     242.117 158.422  -0.167  1.00 46.27       IS9
ATOM  42584  O   VAL I  65     243.190 157.888   0.078  1.00 46.27       IS9
ATOM  42585  N   ARG I  66     241.005 158.133   0.497  1.00 72.00       IS9
ATOM  42586  CA  ARG I  66     241.025 157.171   1.588  1.00 72.00       IS9
ATOM  42587  CB  ARG I  66     240.906 157.913   2.918  1.00182.46       IS9
ATOM  42588  CG  ARG I  66     241.355 157.128   4.139  1.00182.46       IS9
ATOM  42589  CD  ARG I  66     240.925 157.834   5.422  1.00182.46       IS9
ATOM  42590  NE  ARG I  66     240.824 159.281   5.244  1.00182.46       IS9
ATOM  42591  CZ  ARG I  66     241.828 160.062   4.858  1.00182.46       IS9
ATOM  42592  NH1 ARG I  66     243.022 159.541   4.610  1.00182.46       IS9
ATOM  42593  NH2 ARG I  66     241.633 161.365   4.703  1.00182.46       IS9
ATOM  42594  C   ARG I  66     239.884 156.161   1.474  1.00 72.00       IS9
ATOM  42595  O   ARG I  66     238.742 156.535   1.186  1.00 72.00       IS9
ATOM  42596  N   GLY I  67     240.203 154.884   1.683  1.00 86.74       IS9
ATOM  42597  CA  GLY I  67     239.187 153.844   1.649  1.00 86.74       IS9
ATOM  42598  C   GLY I  67     238.872 153.122   0.352  1.00 86.74       IS9
ATOM  42599  O   GLY I  67     238.631 153.742  -0.684  1.00 86.74       IS9
ATOM  42600  N   GLY I  68     238.860 151.795   0.427  1.00 70.50       IS9
ATOM  42601  CA  GLY I  68     238.549 150.985  -0.736  1.00 70.50       IS9
ATOM  42602  C   GLY I  68     239.698 150.218  -1.365  1.00 70.50       IS9
ATOM  42603  O   GLY I  68     240.418 149.474  -0.701  1.00 70.50       IS9
ATOM  42604  N   GLY I  69     239.851 150.390  -2.671  1.00 55.38       IS9
ATOM  42605  CA  GLY I  69     240.910 149.719  -3.395  1.00 55.38       IS9
ATOM  42606  C   GLY I  69     241.362 150.620  -4.521  1.00 55.38       IS9
ATOM  42607  O   GLY I  69     240.556 151.357  -5.098  1.00 55.38       IS9
ATOM  42608  N   LYS I  70     242.652 150.553  -4.830  1.00 59.79       IS9
ATOM  42609  CA  LYS I  70     243.264 151.366  -5.877  1.00 59.79       IS9
ATOM  42610  CB  LYS I  70     244.454 150.619  -6.483  1.00142.12       IS9
ATOM  42611  CG  LYS I  70     245.619 150.415  -5.526  1.00142.12       IS9
ATOM  42612  CD  LYS I  70     246.304 151.729  -5.183  1.00142.12       IS9
ATOM  42613  CE  LYS I  70     247.502 151.489  -4.282  1.00142.12       IS9
ATOM  42614  NZ  LYS I  70     248.268 152.736  -4.031  1.00142.12       IS9
ATOM  42615  C   LYS I  70     242.316 151.783  -6.989  1.00 59.79       IS9
ATOM  42616  O   LYS I  70     242.181 152.972  -7.283  1.00 59.79       IS9
ATOM  42617  N   SER I  71     241.655 150.802  -7.596  1.00 56.05       IS9
ATOM  42618  CA  SER I  71     240.738 151.068  -8.697  1.00 56.05       IS9
ATOM  42619  CB  SER I  71     240.160 149.764  -9.238  1.00 97.87       IS9
ATOM  42620  OG  SER I  71     239.390 150.016 -10.396  1.00 97.87       IS9
ATOM  42621  C   SER I  71     239.606 151.999  -8.310  1.00 56.05       IS9
ATOM  42622  O   SER I  71     239.333 152.972  -9.009  1.00 56.05       IS9
ATOM  42623  N   GLY I  72     238.947 151.698  -7.196  1.00 88.63       IS9
ATOM  42624  CA  GLY I  72     237.846 152.534  -6.747  1.00 88.63       IS9
ATOM  42625  C   GLY I  72     238.286 153.970  -6.575  1.00 88.63       IS9
ATOM  42626  O   GLY I  72     237.639 154.906  -7.046  1.00 88.63       IS9
ATOM  42627  N   GLN I  73     239.404 154.131  -5.882  1.00 48.44       IS9
ATOM  42628  CA  GLN I  73     239.974 155.436  -5.643  1.00 48.44       IS9
ATOM  42629  CB  GLN I  73     241.320 155.283  -4.948  1.00 48.43       IS9
ATOM  42630  CG  GLN I  73     241.302 154.222  -3.855  1.00 48.43       IS9
ATOM  42631  CD  GLN I  73     242.412 154.388  -2.838  1.00 48.43       IS9
ATOM  42632  OE1 GLN I  73     243.556 154.694  -3.186  1.00 48.43       IS9
ATOM  42633  NE2 GLN I  73     242.082 154.172  -1.569  1.00 48.43       IS9
ATOM  42634  C   GLN I  73     240.160 156.083  -6.998  1.00 48.44       IS9
ATOM  42635  O   GLN I  73     239.665 157.175  -7.243  1.00 48.44       IS9
ATOM  42636  N   ILE I  74     240.854 155.388  -7.890  1.00 59.09       IS9
ATOM  42637  CA  ILE I  74     241.104 155.906  -9.231  1.00 59.09       IS9
ATOM  42638  CB  ILE I  74     241.669 154.808 -10.163  1.00 63.39       IS9
ATOM  42639  CG2 ILE I  74     241.888 155.366 -11.578  1.00 63.39       IS9
ATOM  42640  CG1 ILE I  74     242.982 154.282  -9.585  1.00 63.39       IS9
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ATOM  42641  CD1 ILE I  74     243.584 153.136 -10.350  1.00 63.39       IS9
ATOM  42642  C   ILE I  74     239.863 156.493  -9.884  1.00 59.09       IS9
ATOM  42643  O   ILE I  74     239.966 157.379 -10.730  1.00 59.09       IS9
ATOM  42644  N   ASP I  75     238.690 156.008  -9.495  1.00 58.66       IS9
ATOM  42645  CA  ASP I  75     237.463 156.509 -10.091  1.00 58.66       IS9
ATOM  42646  CB  ASP I  75     236.455 155.374 -10.264  1.00176.20       IS9
ATOM  42647  CG  ASP I  75     235.727 155.445 -11.595  1.00176.20       IS9
ATOM  42648  OD1 ASP I  75     235.064 156.471 -11.859  1.00176.20       IS9
ATOM  42649  OD2 ASP I  75     235.823 154.476 -12.378  1.00176.20       IS9
ATOM  42650  C   ASP I  75     236.844 157.648  -9.287  1.00 58.66       IS9
ATOM  42651  O   ASP I  75     236.241 158.557  -9.859  1.00 58.66       IS9
ATOM  42652  N   ALA I  76     236.996 157.599  -7.965  1.00 53.93       IS9
ATOM  42653  CA  ALA I  76     236.458 158.639  -7.081  1.00 53.93       IS9
ATOM  42654  CB  ALA I  76     236.737 158.278  -5.625  1.00 41.96       IS9
ATOM  42655  C   ALA I  76     237.156 159.941  -7.435  1.00 53.93       IS9
ATOM  42656  O   ALA I  76     236.529 160.995  -7.604  1.00 53.93       IS9
ATOM  42657  N   ILE I  77     238.476 159.834  -7.526  1.00 69.60       IS9
ATOM  42658  CA  ILE I  77     239.339 160.937  -7.881  1.00 69.60       IS9
ATOM  42659  CB  ILE I  77     240.750 160.419  -8.209  1.00 41.11       IS9
ATOM  42660  CG2 ILE I  77     241.472 161.377  -9.135  1.00 41.11       IS9
ATOM  42661  CG1 ILE I  77     241.520 160.189  -6.913  1.00 41.11       IS9
ATOM  42662  CD1 ILE I  77     242.911 159.680  -7.133  1.00 41.11       IS9
ATOM  42663  C   ILE I  77     238.745 161.584  -9.110  1.00 69.60       IS9
ATOM  42664  O   ILE I  77     238.434 162.773  -9.111  1.00 69.60       IS9
ATOM  42665  N   LYS I  78     238.573 160.780 -10.153  1.00 42.26       IS9
ATOM  42666  CA  LYS I  78     238.017 161.273 -11.401  1.00 42.26       IS9
ATOM  42667  CB  LYS I  78     237.767 160.118 -12.370  1.00 85.67       IS9
ATOM  42668  CG  LYS I  78     237.575 160.586 -13.794  1.00 85.67       IS9
ATOM  42669  CD  LYS I  78     236.258 160.125 -14.391  1.00 85.67       IS9
ATOM  42670  CE  LYS I  78     236.279 158.651 -14.759  1.00 85.67       IS9
ATOM  42671  NZ  LYS I  78     235.170 158.313 -15.704  1.00 85.67       IS9
ATOM  42672  C   LYS I  78     236.715 162.024 -11.143  1.00 42.26       IS9
ATOM  42673  O   LYS I  78     236.406 163.004 -11.826  1.00 42.26       IS9
ATOM  42674  N   LEU I  79     235.953 161.563 -10.157  1.00 86.71       IS9
ATOM  42675  CA  LEU I  79     234.696 162.214  -9.821  1.00 86.71       IS9
ATOM  42676  CB  LEU I  79     233.934 161.413  -8.760  1.00127.02       IS9
ATOM  42677  CG  LEU I  79     232.553 161.913  -8.312  1.00127.02       IS9
ATOM  42678  CD1 LEU I  79     232.692 163.204  -7.531  1.00127.02       IS9
ATOM  42679  CD2 LEU I  79     231.653 162.112  -9.520  1.00127.02       IS9
ATOM  42680  C   LEU I  79     235.030 163.590  -9.283  1.00 86.71       IS9
ATOM  42681  O   LEU I  79     234.560 164.603  -9.801  1.00 86.71       IS9
ATOM  42682  N   GLY I  80     235.849 163.615  -8.238  1.00 63.63       IS9
ATOM  42683  CA  GLY I  80     236.239 164.879  -7.647  1.00 63.63       IS9
ATOM  42684  C   GLY I  80     236.790 165.866  -8.656  1.00 63.63       IS9
ATOM  42685  O   GLY I  80     236.305 166.992  -8.753  1.00 63.63       IS9
ATOM  42686  N   ILE I  81     237.805 165.447  -9.407  1.00 47.40       IS9
ATOM  42687  CA  ILE I  81     238.423 166.300 -10.415  1.00 47.40       IS9
ATOM  42688  CB  ILE I  81     239.467 165.525 -11.224  1.00 69.15       IS9
ATOM  42689  CG2 ILE I  81     240.117 166.438 -12.246  1.00 69.15       IS9
ATOM  42690  CG1 ILE I  81     240.519 164.949 -10.274  1.00 69.15       IS9
ATOM  42691  CD1 ILE I  81     241.565 164.104 -10.961  1.00 69.15       IS9
ATOM  42692  C   ILE I  81     237.369 166.848 -11.364  1.00 47.40       IS9
ATOM  42693  O   ILE I  81     237.539 167.918 -11.947  1.00 47.40       IS9
ATOM  42694  N   ALA I  82     236.276 166.107 -11.515  1.00 63.83       IS9
ATOM  42695  CA  ALA I  82     235.185 166.528 -12.383  1.00 63.83       IS9
ATOM  42696  CB  ALA I  82     234.323 165.331 -12.759  1.00142.79       IS9
ATOM  42697  C   ALA I  82     234.358 167.560 -11.633  1.00 63.83       IS9
ATOM  42698  O   ALA I  82     234.124 168.655 -12.131  1.00 63.83       IS9
ATOM  42699  N   ARG I  83     233.925 167.200 -10.428  1.00 73.20       IS9
ATOM  42700  CA  ARG I  83     233.133 168.092  -9.588  1.00 73.20       IS9
ATOM  42701  CB  ARG I  83     232.771 167.400  -8.269  1.00 85.67       IS9
ATOM  42702  CG  ARG I  83     231.475 166.601  -8.294  1.00 85.67       IS9
ATOM  42703  CD  ARG I  83     231.199 165.977  -6.925  1.00 85.67       IS9
ATOM  42704  NE  ARG I  83     229.821 165.507  -6.794  1.00 85.67       IS9
ATOM  42705  CZ  ARG I  83     229.350 164.862  -5.732  1.00 85.67       IS9
ATOM  42706  NH1 ARG I  83     230.146 164.601  -4.701  1.00 85.67       IS9
ATOM  42707  NH2 ARG I  83     228.076 164.493  -5.695  1.00 85.67       IS9
ATOM  42708  C   ARG I  83     233.909 169.369  -9.284  1.00 73.20       IS9
ATOM  42709  O   ARG I  83     233.398 170.480  -9.449  1.00 73.20       IS9
ATOM  42710  N   ALA I  84     235.142 169.200  -8.821  1.00 57.18       IS9
ATOM  42711  CA  ALA I  84     235.987 170.332  -8.502  1.00 57.18       IS9
ATOM  42712  CB  ALA I  84     237.375 169.861  -8.156  1.00 76.86       IS9
ATOM  42713  C   ALA I  84     236.027 171.233  -9.719  1.00 57.18       IS9
ATOM  42714  O   ALA I  84     235.696 172.410  -9.635  1.00 57.18       IS9
ATOM  42715  N   LEU I  85     236.417 170.660 -10.853  1.00 52.19       IS9
ATOM  42716  CA  LEU I  85     236.503 171.385 -12.118  1.00 52.19       IS9
ATOM  42717  CB  LEU I  85     236.741 170.382 -13.251  1.00147.74       IS9
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ATOM  42718  CG  LEU I  85     237.374 170.844 -14.563  1.00147.74       IS9
ATOM  42719  CD1 LEU I  85     238.781 171.347 -14.296  1.00147.74       IS9
ATOM  42720  CD2 LEU I  85     237.415 169.682 -15.545  1.00147.74       IS9
ATOM  42721  C   LEU I  85     235.212 172.184 -12.385  1.00 52.19       IS9
ATOM  42722  O   LEU I  85     235.173 173.071 -13.240  1.00 52.19       IS9
ATOM  42723  N   VAL I  86     234.153 171.852 -11.655  1.00 87.95       IS9
ATOM  42724  CA  VAL I  86     232.876 172.536 -11.803  1.00 87.95       IS9
ATOM  42725  CB  VAL I  86     231.697 171.557 -11.662  1.00107.57       IS9
ATOM  42726  CG1 VAL I  86     230.395 172.324 -11.549  1.00107.57       IS9
ATOM  42727  CG2 VAL I  86     231.653 170.629 -12.866  1.00107.57       IS9
ATOM  42728  C   VAL I  86     232.756 173.624 -10.747  1.00 87.95       IS9
ATOM  42729  O   VAL I  86     232.148 174.669 -10.986  1.00 87.95       IS9
ATOM  42730  N   GLN I  87     233.324 173.371  -9.573  1.00195.19       IS9
ATOM  42731  CA  GLN I  87     233.299 174.361  -8.508  1.00195.19       IS9
ATOM  42732  CB  GLN I  87     234.158 173.905  -7.328  1.00170.60       IS9
ATOM  42733  CG  GLN I  87     233.349 173.531  -6.104  1.00170.60       IS9
ATOM  42734  CD  GLN I  87     232.522 174.688  -5.591  1.00170.60       IS9
ATOM  42735  OE1 GLN I  87     233.061 175.701  -5.150  1.00170.60       IS9
ATOM  42736  NE2 GLN I  87     231.204 174.548  -5.655  1.00170.60       IS9
ATOM  42737  C   GLN I  87     233.880 175.624  -9.120  1.00195.19       IS9
ATOM  42738  O   GLN I  87     233.311 176.706  -8.995  1.00195.19       IS9
ATOM  42739  N   TYR I  88     235.019 175.468  -9.788  1.00 67.61       IS9
ATOM  42740  CA  TYR I  88     235.679 176.572 -10.468  1.00 67.61       IS9
ATOM  42741  CB  TYR I  88     236.978 176.080 -11.115  1.00114.53       IS9
ATOM  42742  CG  TYR I  88     237.509 176.927 -12.250  1.00114.53       IS9
ATOM  42743  CD1 TYR I  88     237.516 178.315 -12.176  1.00114.53       IS9
ATOM  42744  CE1 TYR I  88     238.052 179.086 -13.198  1.00114.53       IS9
ATOM  42745  CD2 TYR I  88     238.047 176.327 -13.381  1.00114.53       IS9
ATOM  42746  CE2 TYR I  88     238.586 177.082 -14.409  1.00114.53       IS9
ATOM  42747  CZ  TYR I  88     238.589 178.462 -14.314  1.00114.53       IS9
ATOM  42748  OH  TYR I  88     239.145 179.211 -15.331  1.00114.53       IS9
ATOM  42749  C   TYR I  88     234.711 177.078 -11.525  1.00 67.61       IS9
ATOM  42750  O   TYR I  88     233.913 177.974 -11.269  1.00 67.61       IS9
ATOM  42751  N   ASN I  89     234.768 176.501 -12.715  1.00 90.62       IS9
ATOM  42752  CA  ASN I  89     233.856 176.925 -13.751  1.00 90.62       IS9
ATOM  42753  CB  ASN I  89     234.586 177.122 -15.070  1.00104.26       IS9
ATOM  42754  CG  ASN I  89     233.692 177.718 -16.127  1.00104.26       IS9
ATOM  42755  OD1 ASN I  89     233.086 178.768 -15.919  1.00104.26       IS9
ATOM  42756  ND2 ASN I  89     233.599 177.053 -17.268  1.00104.26       IS9
ATOM  42757  C   ASN I  89     232.762 175.882 -13.907  1.00 90.62       IS9
ATOM  42758  O   ASN I  89     233.014 174.752 -14.334  1.00 90.62       IS9
ATOM  42759  N   PRO I  90     231.525 176.249 -13.541  1.00162.31       IS9
ATOM  42760  CD  PRO I  90     231.141 177.596 -13.082  1.00 71.08       IS9
ATOM  42761  CA  PRO I  90     230.348 175.385 -13.618  1.00162.31       IS9
ATOM  42762  CB  PRO I  90     229.331 176.140 -12.787  1.00 71.08       IS9
ATOM  42763  CG  PRO I  90     229.628 177.551 -13.169  1.00 71.08       IS9
ATOM  42764  C   PRO I  90     229.913 175.263 -15.064  1.00162.31       IS9
ATOM  42765  O   PRO I  90     229.107 174.406 -15.418  1.00162.31       IS9
ATOM  42766  N   ASP I  91     230.446 176.149 -15.895  1.00 89.45       IS9
ATOM  42767  CA  ASP I  91     230.128 176.142 -17.309  1.00 89.45       IS9
ATOM  42768  CB  ASP I  91     230.697 177.393 -17.973  1.00169.74       IS9
ATOM  42769  CG  ASP I  91     230.241 178.669 -17.290  1.00169.74       IS9
ATOM  42770  OD1 ASP I  91     230.505 178.826 -16.078  1.00169.74       IS9
ATOM  42771  OD2 ASP I  91     229.617 179.513 -17.964  1.00169.74       IS9
ATOM  42772  C   ASP I  91     230.741 174.883 -17.910  1.00 89.45       IS9
ATOM  42773  O   ASP I  91     230.468 174.531 -19.058  1.00 89.45       IS9
ATOM  42774  N   TYR I  92     231.571 174.209 -17.115  1.00120.65       IS9
ATOM  42775  CA  TYR I  92     232.228 172.972 -17.532  1.00120.65       IS9
ATOM  42776  CB  TYR I  92     233.486 172.730 -16.687  1.00106.00       IS9
ATOM  42777  CG  TYR I  92     234.690 173.523 -17.152  1.00106.00       IS9
ATOM  42778  CD1 TYR I  92     235.841 173.610 -16.369  1.00106.00       IS9
ATOM  42779  CE1 TYR I  92     236.950 174.347 -16.798  1.00106.00       IS9
ATOM  42780  CD2 TYR I  92     234.677 174.189 -18.379  1.00106.00       IS9
ATOM  42781  CE2 TYR I  92     235.774 174.924 -18.815  1.00106.00       IS9
ATOM  42782  CZ  TYR I  92     236.905 175.002 -18.022  1.00106.00       IS9
ATOM  42783  OH  TYR I  92     237.979 175.750 -18.455  1.00106.00       IS9
ATOM  42784  C   TYR I  92     231.275 171.788 -17.409  1.00120.65       IS9
ATOM  42785  O   TYR I  92     231.462 170.752 -18.051  1.00120.65       IS9
ATOM  42786  N   ARG I  93     230.252 171.949 -16.575  1.00 80.74       IS9
ATOM  42787  CA  ARG I  93     229.261 170.904 -16.382  1.00 80.74       IS9
ATOM  42788  CB  ARG I  93     228.094 171.416 -15.538  1.00145.32       IS9
ATOM  42789  CG  ARG I  93     228.491 171.931 -14.175  1.00145.32       IS9
ATOM  42790  CD  ARG I  93     227.274 172.171 -13.307  1.00145.32       IS9
ATOM  42791  NE  ARG I  93     226.560 170.926 -13.047  1.00145.32       IS9
ATOM  42792  CZ  ARG I  93     225.534 170.812 -12.211  1.00145.32       IS9
ATOM  42793  NH1 ARG I  93     225.096 171.872 -11.545  1.00145.32       IS9
ATOM  42794  NH2 ARG I  93     224.947 169.636 -12.041  1.00145.32       IS9
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ATOM  42795  C   ARG I  93     228.753 170.513 -17.752  1.00 80.74      IS9
ATOM  42796  O   ARG I  93     228.880 169.368 -18.171  1.00 80.74      IS9
ATOM  42797  N   ALA I  94     228.194 171.492 -18.452  1.00 59.92      IS9
ATOM  42798  CA  ALA I  94     227.650 171.284 -19.784  1.00 59.92      IS9
ATOM  42799  CB  ALA I  94     227.218 172.620 -20.376  1.00121.53      IS9
ATOM  42800  C   ALA I  94     228.631 170.599 -20.724  1.00 59.92      IS9
ATOM  42801  O   ALA I  94     228.304 170.340 -21.882  1.00 59.92      IS9
ATOM  42802  N   LYS I  95     229.831 170.311 -20.230  1.00 72.42      IS9
ATOM  42803  CA  LYS I  95     230.857 169.663 -21.039  1.00 72.42      IS9
ATOM  42804  CB  LYS I  95     232.142 170.494 -20.998  1.00161.79      IS9
ATOM  42805  CG  LYS I  95     232.795 170.728 -22.353  1.00161.79      IS9
ATOM  42806  CD  LYS I  95     233.289 169.434 -22.975  1.00161.79      IS9
ATOM  42807  CE  LYS I  95     234.028 169.702 -24.276  1.00161.79      IS9
ATOM  42808  NZ  LYS I  95     234.561 168.452 -24.886  1.00161.79      IS9
ATOM  42809  C   LYS I  95     231.130 168.250 -20.529  1.00 72.42      IS9
ATOM  42810  O   LYS I  95     231.415 167.344 -21.308  1.00 72.42      IS9
ATOM  42811  N   LEU I  96     231.036 168.066 -19.216  1.00100.33      IS9
ATOM  42812  CA  LEU I  96     231.273 166.764 -18.604  1.00100.33      IS9
ATOM  42813  CB  LEU I  96     231.965 166.934 -17.259  1.00 68.29      IS9
ATOM  42814  CG  LEU I  96     233.425 167.365 -17.279  1.00 68.29      IS9
ATOM  42815  CD1 LEU I  96     233.596 168.614 -18.117  1.00 68.29      IS9
ATOM  42816  CD2 LEU I  96     233.875 167.594 -15.842  1.00 68.29      IS9
ATOM  42817  C   LEU I  96     229.985 165.980 -18.401  1.00100.33      IS9
ATOM  42818  O   LEU I  96     229.990 164.751 -18.440  1.00100.33      IS9
ATOM  42819  N   LYS I  97     228.888 166.692 -18.163  1.00 94.41      IS9
ATOM  42820  CA  LYS I  97     227.589 166.056 -17.971  1.00 94.41      IS9
ATOM  42821  CB  LYS I  97     226.480 167.107 -17.877  1.00201.26      IS9
ATOM  42822  CG  LYS I  97     226.493 167.918 -16.597  1.00201.26      IS9
ATOM  42823  CD  LYS I  97     225.480 169.048 -16.661  1.00201.26      IS9
ATOM  42824  CE  LYS I  97     225.411 169.793 -15.344  1.00201.26      IS9
ATOM  42825  NZ  LYS I  97     224.626 171.051 -15.455  1.00201.26      IS9
ATOM  42826  C   LYS I  97     227.284 165.110 -19.123  1.00 94.41      IS9
ATOM  42827  O   LYS I  97     226.623 164.097 -18.931  1.00 94.41      IS9
ATOM  42828  N   PRO I  98     227.737 165.444 -20.343  1.00 85.17      IS9
ATOM  42829  CD  PRO I  98     228.050 166.805 -20.809  1.00 89.23      IS9
ATOM  42830  CA  PRO I  98     227.480 164.570 -21.491  1.00 85.17      IS9
ATOM  42831  CB  PRO I  98     227.790 165.471 -22.682  1.00 89.23      IS9
ATOM  42832  CG  PRO I  98     227.414 166.818 -22.172  1.00 89.23      IS9
ATOM  42833  C   PRO I  98     228.324 163.293 -21.499  1.00 85.17      IS9
ATOM  42834  O   PRO I  98     228.053 162.372 -22.269  1.00 85.17      IS9
ATOM  42835  N   LEU I  99     229.343 163.236 -20.648  1.00 61.53      IS9
ATOM  42836  CA  LEU I  99     230.206 162.058 -20.573  1.00 61.53      IS9
ATOM  42837  CB  LEU I  99     231.664 162.444 -20.829  1.00 68.99      IS9
ATOM  42838  CG  LEU I  99     232.038 162.996 -22.202  1.00 68.99      IS9
ATOM  42839  CD1 LEU I  99     231.601 161.994 -23.256  1.00 68.99      IS9
ATOM  42840  CD2 LEU I  99     231.380 164.350 -22.439  1.00 68.99      IS9
ATOM  42841  C   LEU I  99     230.095 161.407 -19.203  1.00 61.53      IS9
ATOM  42842  O   LEU I  99     230.802 160.449 -18.897  1.00 61.53      IS9
ATOM  42843  N   GLY I 100     229.197 161.934 -18.382  1.00 84.22      IS9
ATOM  42844  CA  GLY I 100     229.018 161.404 -17.047  1.00 84.22      IS9
ATOM  42845  C   GLY I 100     229.922 162.165 -16.108  1.00 84.22      IS9
ATOM  42846  O   GLY I 100     229.668 163.332 -15.805  1.00 84.22      IS9
ATOM  42847  N   PHE I 101     230.986 161.502 -15.666  1.00 95.62      IS9
ATOM  42848  CA  PHE I 101     231.957 162.095 -14.754  1.00 95.62      IS9
ATOM  42849  CB  PHE I 101     232.676 163.252 -15.447  1.00 72.89      IS9
ATOM  42850  CG  PHE I 101     233.532 162.821 -16.613  1.00 72.89      IS9
ATOM  42851  CD1 PHE I 101     233.338 163.366 -17.883  1.00 72.89      IS9
ATOM  42852  CD2 PHE I 101     234.542 161.882 -16.441  1.00 72.89      IS9
ATOM  42853  CE1 PHE I 101     234.142 162.979 -18.960  1.00 72.89      IS9
ATOM  42854  CE2 PHE I 101     235.346 161.492 -17.508  1.00 72.89      IS9
ATOM  42855  CZ  PHE I 101     235.145 162.043 -18.770  1.00 72.89      IS9
ATOM  42856  C   PHE I 101     231.275 162.570 -13.479  1.00 95.62      IS9
ATOM  42857  O   PHE I 101     231.571 162.089 -12.388  1.00 95.62      IS9
ATOM  42858  N   LEU I 102     230.360 163.517 -13.622  1.00 91.85      IS9
ATOM  42859  CA  LEU I 102     229.623 164.034 -12.485  1.00 91.85      IS9
ATOM  42860  CB  LEU I 102     228.999 165.386 -12.835  1.00121.34      IS9
ATOM  42861  CG  LEU I 102     229.934 166.493 -13.329  1.00121.34      IS9
ATOM  42862  CD1 LEU I 102     229.099 167.640 -13.864  1.00121.34      IS9
ATOM  42863  CD2 LEU I 102     230.845 166.964 -12.202  1.00121.34      IS9
ATOM  42864  C   LEU I 102     228.523 163.027 -12.195  1.00 91.85      IS9
ATOM  42865  O   LEU I 102     227.347 163.334 -12.354  1.00 91.85      IS9
ATOM  42866  N   THR I 103     228.903 161.824 -11.776  1.00 80.63      IS9
ATOM  42867  CA  THR I 103     227.919 160.783 -11.491  1.00 80.63      IS9
ATOM  42868  CB  THR I 103     227.495 160.064 -12.781  1.00 77.96      IS9
ATOM  42869  OG1 THR I 103     227.127 161.026 -13.778  1.00 77.96      IS9
ATOM  42870  CG2 THR I 103     226.329 159.142 -12.504  1.00 77.96      IS9
ATOM  42871  C   THR I 103     228.451 159.713 -10.546  1.00 80.63      IS9
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ATOM  42872  O   THR I 103     229.211 158.845 -10.972  1.00 80.63       IS9
ATOM  42873  N   ARG I 104     228.058 159.755  -9.275  1.00 92.98       IS9
ATOM  42874  CA  ARG I 104     228.533 158.738  -8.343  1.00 92.98       IS9
ATOM  42875  CB  ARG I 104     228.124 159.062  -6.897  1.00 57.78       IS9
ATOM  42876  CG  ARG I 104     228.873 158.252  -5.828  1.00 57.78       IS9
ATOM  42877  CD  ARG I 104     228.575 156.776  -5.960  1.00 57.78       IS9
ATOM  42878  NE  ARG I 104     229.409 155.898  -5.138  1.00 57.78       IS9
ATOM  42879  CZ  ARG I 104     229.421 155.873  -3.805  1.00 57.78       IS9
ATOM  42880  NH1 ARG I 104     228.649 156.695  -3.106  1.00 57.78       IS9
ATOM  42881  NH2 ARG I 104     230.177 154.986  -3.164  1.00 57.78       IS9
ATOM  42882  C   ARG I 104     227.901 157.427  -8.788  1.00 92.98       IS9
ATOM  42883  O   ARG I 104     226.676 157.303  -8.825  1.00 92.98       IS9
ATOM  42884  N   ASP I 105     228.746 156.463  -9.144  1.00 89.03       IS9
ATOM  42885  CA  ASP I 105     228.301 155.148  -9.601  1.00 89.03       IS9
ATOM  42886  CB  ASP I 105     229.421 154.487 -10.406  1.00134.34       IS9
ATOM  42887  CG  ASP I 105     229.068 153.095 -10.855  1.00134.34       IS9
ATOM  42888  OD1 ASP I 105     228.966 152.210  -9.984  1.00134.34       IS9
ATOM  42889  OD2 ASP I 105     228.889 152.888 -12.073  1.00134.34       IS9
ATOM  42890  C   ASP I 105     227.893 154.273  -8.410  1.00 89.03       IS9
ATOM  42891  O   ASP I 105     228.743 153.736  -7.688  1.00 89.03       IS9
ATOM  42892  N   ALA I 106     226.580 154.131  -8.234  1.00 56.52       IS9
ATOM  42893  CA  ALA I 106     225.980 153.378  -7.131  1.00 56.52       IS9
ATOM  42894  CB  ALA I 106     224.460 153.455  -7.234  1.00130.37       IS9
ATOM  42895  C   ALA I 106     226.400 151.923  -6.958  1.00 56.52       IS9
ATOM  42896  O   ALA I 106     226.188 151.342  -5.888  1.00 56.52       IS9
ATOM  42897  N   ARG I 107     226.984 151.334  -7.999  1.00 28.26       IS9
ATOM  42898  CA  ARG I 107     227.406 149.937  -7.951  1.00 28.26       IS9
ATOM  42899  CB  ARG I 107     228.121 149.567  -9.247  1.00 64.00       IS9
ATOM  42900  CG  ARG I 107     227.327 149.938 -10.483  1.00 64.00       IS9
ATOM  42901  CD  ARG I 107     227.900 149.279 -11.710  1.00 64.00       IS9
ATOM  42902  NE  ARG I 107     229.259 149.721 -11.981  1.00 64.00       IS9
ATOM  42903  CZ  ARG I 107     230.155 148.982 -12.622  1.00 64.00       IS9
ATOM  42904  NH1 ARG I 107     229.825 147.770 -13.046  1.00 64.00       IS9
ATOM  42905  NH2 ARG I 107     231.376 149.452 -12.846  1.00 64.00       IS9
ATOM  42906  C   ARG I 107     228.292 149.641  -6.752  1.00 28.26       IS9
ATOM  42907  O   ARG I 107     229.356 150.223  -6.589  1.00 28.26       IS9
ATOM  42908  N   VAL I 108     227.833 148.732  -5.909  1.00 46.73       IS9
ATOM  42909  CA  VAL I 108     228.565 148.358  -4.716  1.00 46.73       IS9
ATOM  42910  CB  VAL I 108     228.007 149.085  -3.489  1.00 50.35       IS9
ATOM  42911  CG1 VAL I 108     228.883 148.823  -2.282  1.00 50.35       IS9
ATOM  42912  CG2 VAL I 108     227.901 150.563  -3.771  1.00 50.35       IS9
ATOM  42913  C   VAL I 108     228.374 146.868  -4.505  1.00 46.73       IS9
ATOM  42914  O   VAL I 108     227.470 146.272  -5.079  1.00 46.73       IS9
ATOM  42915  N   VAL I 109     229.224 146.267  -3.685  1.00 40.41       IS9
ATOM  42916  CA  VAL I 109     229.118 144.847  -3.390  1.00 40.41       IS9
ATOM  42917  CB  VAL I 109     230.044 144.441  -2.241  1.00 36.13       IS9
ATOM  42918  CG1 VAL I 109     229.796 142.988  -1.856  1.00 36.13       IS9
ATOM  42919  CG2 VAL I 109     231.476 144.649  -2.643  1.00 36.13       IS9
ATOM  42920  C   VAL I 109     227.705 144.542  -2.942  1.00 40.41       IS9
ATOM  42921  O   VAL I 109     227.133 145.296  -2.141  1.00 40.41       IS9
ATOM  42922  N   GLU I 110     227.153 143.441  -3.457  1.00 55.09       IS9
ATOM  42923  CA  GLU I 110     225.809 142.993  -3.104  1.00 55.09       IS9
ATOM  42924  CB  GLU I 110     225.192 142.207  -4.249  1.00 94.35       IS9
ATOM  42925  CG  GLU I 110     223.855 141.601  -3.914  1.00 94.35       IS9
ATOM  42926  CD  GLU I 110     223.284 140.822  -5.074  1.00 94.35       IS9
ATOM  42927  OE1 GLU I 110     223.148 141.415  -6.165  1.00 94.35       IS9
ATOM  42928  OE2 GLU I 110     222.972 139.623  -4.898  1.00 94.35       IS9
ATOM  42929  C   GLU I 110     225.945 142.105  -1.876  1.00 55.09       IS9
ATOM  42930  O   GLU I 110     226.874 141.306  -1.786  1.00 55.09       IS9
ATOM  42931  N   ARG I 111     225.022 142.251  -0.933  1.00 49.78       IS9
ATOM  42932  CA  ARG I 111     225.077 141.492   0.309  1.00 49.78       IS9
ATOM  42933  CB  ARG I 111     223.898 141.843   1.212  1.00 64.19       IS9
ATOM  42934  CG  ARG I 111     223.953 141.148   2.571  1.00 64.19       IS9
ATOM  42935  CD  ARG I 111     223.115 139.884   2.608  1.00 64.19       IS9
ATOM  42936  NE  ARG I 111     221.885 140.060   3.377  1.00 64.19       IS9
ATOM  42937  CZ  ARG I 111     221.041 141.081   3.229  1.00 64.19       IS9
ATOM  42938  NH1 ARG I 111     221.277 142.046   2.344  1.00 64.19       IS9
ATOM  42939  NH2 ARG I 111     219.939 141.126   3.960  1.00 64.19       IS9
ATOM  42940  C   ARG I 111     225.105 140.002   0.118  1.00 49.78       IS9
ATOM  42941  O   ARG I 111     224.480 139.475  -0.793  1.00 49.78       IS9
ATOM  42942  N   LYS I 112     225.830 139.330   1.003  1.00 37.74       IS9
ATOM  42943  CA  LYS I 112     225.953 137.882   0.970  1.00 37.74       IS9
ATOM  42944  CB  LYS I 112     227.210 137.445   1.716  1.00 36.46       IS9
ATOM  42945  CG  LYS I 112     227.522 135.960   1.617  1.00 36.46       IS9
ATOM  42946  CD  LYS I 112     226.519 135.104   2.338  1.00 36.46       IS9
ATOM  42947  CE  LYS I 112     226.875 133.644   2.215  1.00 36.46       IS9
ATOM  42948  NZ  LYS I 112     225.945 132.796   3.003  1.00 36.46       IS9
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ATOM  42949  C   LYS I 112     224.746 137.275   1.651  1.00 37.74       IS9
ATOM  42950  O   LYS I 112     224.744 137.103   2.864  1.00 37.74       IS9
ATOM  42951  N   LYS I 113     223.718 136.952   0.877  1.00 44.79       IS9
ATOM  42952  CA  LYS I 113     222.514 136.356   1.435  1.00 44.79       IS9
ATOM  42953  CB  LYS I 113     221.376 136.435   0.432  1.00 30.64       IS9
ATOM  42954  CG  LYS I 113     220.925 137.832   0.120  1.00 30.64       IS9
ATOM  42955  CD  LYS I 113     221.566 138.364  -1.122  1.00 30.64       IS9
ATOM  42956  CE  LYS I 113     220.842 139.627  -1.561  1.00 30.64       IS9
ATOM  42957  NZ  LYS I 113     221.212 140.068  -2.942  1.00 30.64       IS9
ATOM  42958  C   LYS I 113     222.738 134.901   1.801  1.00 44.79       IS9
ATOM  42959  O   LYS I 113     223.509 134.203   1.151  1.00 44.79       IS9
ATOM  42960  N   TYR I 114     222.066 134.444   2.849  1.00 65.46       IS9
ATOM  42961  CA  TYR I 114     222.195 133.058   3.270  1.00 65.46       IS9
ATOM  42962  CB  TYR I 114     221.584 132.846   4.651  1.00 70.90       IS9
ATOM  42963  CG  TYR I 114     220.130 133.238   4.738  1.00 70.90       IS9
ATOM  42964  CD1 TYR I 114     219.162 132.315   5.102  1.00 70.90       IS9
ATOM  42965  CE1 TYR I 114     217.832 132.689   5.227  1.00 70.90       IS9
ATOM  42966  CD2 TYR I 114     219.728 134.547   4.493  1.00 70.90       IS9
ATOM  42967  CE2 TYR I 114     218.401 134.927   4.616  1.00 70.90       IS9
ATOM  42968  CZ  TYR I 114     217.458 133.995   4.987  1.00 70.90       IS9
ATOM  42969  OH  TYR I 114     216.148 134.382   5.145  1.00 70.90       IS9
ATOM  42970  C   TYR I 114     221.462 132.209   2.255  1.00 65.46       IS9
ATOM  42971  O   TYR I 114     220.751 132.731   1.395  1.00 65.46       IS9
ATOM  42972  N   GLY I 115     221.617 130.898   2.368  1.00 41.28       IS9
ATOM  42973  CA  GLY I 115     220.977 130.018   1.415  1.00 41.28       IS9
ATOM  42974  C   GLY I 115     221.929 129.900   0.249  1.00 41.28       IS9
ATOM  42975  O   GLY I 115     222.265 128.807  -0.186  1.00 41.28       IS9
ATOM  42976  N   LYS I 116     222.381 131.043  -0.247  1.00 35.81       IS9
ATOM  42977  CA  LYS I 116     223.320 131.057  -1.351  1.00 35.81       IS9
ATOM  42978  CB  LYS I 116     223.126 132.319  -2.193  1.00 48.58       IS9
ATOM  42979  CG  LYS I 116     221.688 132.494  -2.666  1.00 48.58       IS9
ATOM  42980  CD  LYS I 116     221.067 131.153  -3.050  1.00 48.58       IS9
ATOM  42981  CE  LYS I 116     219.859 131.325  -3.955  1.00 48.58       IS9
ATOM  42982  NZ  LYS I 116     220.229 132.002  -5.241  1.00 48.58       IS9
ATOM  42983  C   LYS I 116     224.753 130.969  -0.840  1.00 35.81       IS9
ATOM  42984  O   LYS I 116     224.992 130.846   0.356  1.00 35.81       IS9
ATOM  42985  N   HIS I 117     225.704 131.007  -1.760  1.00 44.94       IS9
ATOM  42986  CA  HIS I 117     227.111 130.919  -1.415  1.00 44.94       IS9
ATOM  42987  CB  HIS I 117     227.862 130.058  -2.418  1.00 48.73       IS9
ATOM  42988  CG  HIS I 117     227.878 128.604  -2.091  1.00 48.73       IS9
ATOM  42989  CD2 HIS I 117     227.420 127.531  -2.779  1.00 48.73       IS9
ATOM  42990  ND1 HIS I 117     228.499 128.103  -0.969  1.00 48.73       IS9
ATOM  42991  CE1 HIS I 117     228.428 126.782  -0.981  1.00 48.73       IS9
ATOM  42992  NE2 HIS I 117     227.778 126.410  -2.070  1.00 48.73       IS9
ATOM  42993  C   HIS I 117     227.706 132.287  -1.499  1.00 44.94       IS9
ATOM  42994  O   HIS I 117     228.759 132.535  -0.939  1.00 44.94       IS9
ATOM  42995  N   LYS I 118     227.033 133.181  -2.204  1.00 37.67       IS9
ATOM  42996  CA  LYS I 118     227.583 134.504  -2.400  1.00 37.67       IS9
ATOM  42997  CB  LYS I 118     228.667 134.431  -3.470  1.00 34.93       IS9
ATOM  42998  CG  LYS I 118     229.830 133.503  -3.177  1.00 34.93       IS9
ATOM  42999  CD  LYS I 118     230.772 133.329  -4.389  1.00 34.93       IS9
ATOM  43000  CE  LYS I 118     231.061 134.637  -5.154  1.00 34.93       IS9
ATOM  43001  NZ  LYS I 118     229.860 135.174  -5.861  1.00 34.93       IS9
ATOM  43002  C   LYS I 118     226.558 135.528  -2.854  1.00 37.67       IS9
ATOM  43003  O   LYS I 118     226.832 136.296  -3.779  1.00 37.67       IS9
ATOM  43004  N   ALA I 119     225.393 135.557  -2.224  1.00 67.65       IS9
ATOM  43005  CA  ALA I 119     224.358 136.506  -2.628  1.00 67.65       IS9
ATOM  43006  CB  ALA I 119     224.972 137.861  -2.977  1.00 33.84       IS9
ATOM  43007  C   ALA I 119     223.618 135.952  -3.834  1.00 67.65       IS9
ATOM  43008  O   ALA I 119     222.446 136.263  -4.053  1.00 67.65       IS9
ATOM  43009  N   ARG I 120     224.316 135.140  -4.622  1.00 20.00       IS9
ATOM  43010  CA  ARG I 120     223.713 134.526  -5.792  1.00 20.00       IS9
ATOM  43011  CB  ARG I 120     223.884 135.417  -7.028  1.00 26.97       IS9
ATOM  43012  CG  ARG I 120     223.184 136.750  -6.877  1.00 26.97       IS9
ATOM  43013  CD  ARG I 120     222.810 137.404  -8.204  1.00 26.97       IS9
ATOM  43014  NE  ARG I 120     222.431 138.800  -7.976  1.00 26.97       IS9
ATOM  43015  CZ  ARG I 120     221.937 139.622  -8.894  1.00 26.97       IS9
ATOM  43016  NH1 ARG I 120     221.742 139.205 -10.128  1.00 26.97       IS9
ATOM  43017  NH2 ARG I 120     221.649 140.874  -8.578  1.00 26.97       IS9
ATOM  43018  C   ARG I 120     224.218 133.122  -6.078  1.00 20.00       IS9
ATOM  43019  O   ARG I 120     223.422 132.206  -6.233  1.00 20.00       IS9
ATOM  43020  N   ARG I 121     225.529 132.946  -6.142  1.00 57.09       IS9
ATOM  43021  CA  ARG I 121     226.077 131.629  -6.426  1.00 57.09       IS9
ATOM  43022  CB  ARG I 121     227.569 131.593  -6.102  1.00 60.84       IS9
ATOM  43023  CG  ARG I 121     228.375 130.615  -6.945  1.00 60.84       IS9
ATOM  43024  CD  ARG I 121     227.713 129.252  -7.063  1.00 60.84       IS9
ATOM  43025  NE  ARG I 121     228.540 128.302  -7.806  1.00 60.84       IS9
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ATOM  43026  CZ  ARG I 121     228.141 127.081  -8.154  1.00 60.84       IS9
ATOM  43027  NH1 ARG I 121     226.925 126.673  -7.829  1.00 60.84       IS9
ATOM  43028  NH2 ARG I 121     228.956 126.260  -8.809  1.00 60.84       IS9
ATOM  43029  C   ARG I 121     225.350 130.574  -5.596  1.00 57.09       IS9
ATOM  43030  O   ARG I 121     225.791 130.228  -4.508  1.00 57.09       IS9
ATOM  43031  N   ALA I 122     224.239 130.060  -6.110  1.00 27.12       IS9
ATOM  43032  CA  ALA I 122     223.478 129.049  -5.387  1.00 27.12       IS9
ATOM  43033  CB  ALA I 122     222.107 128.882  -6.017  1.00162.56       IS9
ATOM  43034  C   ALA I 122     224.226 127.727  -5.411  1.00 27.12       IS9
ATOM  43035  O   ALA I 122     224.866 127.393  -6.399  1.00 27.12       IS9
ATOM  43036  N   PRO I 123     224.163 126.964  -4.316  1.00 28.35       IS9
ATOM  43037  CD  PRO I 123     223.497 127.319  -3.060  1.00  6.28       IS9
ATOM  43038  CA  PRO I 123     224.832 125.663  -4.197  1.00 28.35       IS9
ATOM  43039  CB  PRO I 123     224.578 125.268  -2.737  1.00  6.28       IS9
ATOM  43040  CG  PRO I 123     223.334 125.965  -2.405  1.00  6.28       IS9
ATOM  43041  C   PRO I 123     224.258 124.660  -5.180  1.00 28.35       IS9
ATOM  43042  O   PRO I 123     223.055 124.671  -5.432  1.00 28.35       IS9
ATOM  43043  N   GLN I 124     225.109 123.801  -5.738  1.00 64.32       IS9
ATOM  43044  CA  GLN I 124     224.632 122.827  -6.708  1.00 64.32       IS9
ATOM  43045  CB  GLN I 124     225.733 122.442  -7.700  1.00 61.58       IS9
ATOM  43046  CG  GLN I 124     226.803 121.535  -7.168  1.00 61.58       IS9
ATOM  43047  CD  GLN I 124     227.723 121.043  -8.270  1.00 61.58       IS9
ATOM  43048  OE1 GLN I 124     228.173 121.825  -9.117  1.00 61.58       IS9
ATOM  43049  NE2 GLN I 124     228.017 119.743  -8.262  1.00 61.58       IS9
ATOM  43050  C   GLN I 124     224.089 121.590  -6.024  1.00 64.32       IS9
ATOM  43051  O   GLN I 124     224.041 121.527  -4.791  1.00 64.32       IS9
ATOM  43052  N   TYR I 125     223.684 120.606  -6.826  1.00 84.87       IS9
ATOM  43053  CA  TYR I 125     223.109 119.380  -6.288  1.00 84.87       IS9
ATOM  43054  CB  TYR I 125     221.712 119.670  -5.802  1.00 63.21       IS9
ATOM  43055  CG  TYR I 125     220.888 120.311  -6.871  1.00 63.21       IS9
ATOM  43056  CD1 TYR I 125     219.919 119.593  -7.555  1.00 63.21       IS9
ATOM  43057  CE1 TYR I 125     219.161 120.190  -8.544  1.00 63.21       IS9
ATOM  43058  CD2 TYR I 125     221.085 121.644  -7.205  1.00 63.21       IS9
ATOM  43059  CE2 TYR I 125     220.337 122.252  -8.188  1.00 63.21       IS9
ATOM  43060  CZ  TYR I 125     219.371 121.523  -8.858  1.00 63.21       IS9
ATOM  43061  OH  TYR I 125     218.611 122.140  -9.829  1.00 63.21       IS9
ATOM  43062  C   TYR I 125     223.031 118.231  -7.269  1.00 84.87       IS9
ATOM  43063  O   TYR I 125     223.599 118.274  -8.358  1.00 84.87       IS9
ATOM  43064  N   SER I 126     222.285 117.209  -6.866  1.00 89.03       IS9
ATOM  43065  CA  SER I 126     222.121 116.018  -7.678  1.00 89.03       IS9
ATOM  43066  CB  SER I 126     222.878 114.856  -7.042  1.00141.56       IS9
ATOM  43067  OG  SER I 126     222.318 114.533  -5.779  1.00141.56       IS9
ATOM  43068  C   SER I 126     220.667 115.603  -7.864  1.00 89.03       IS9
ATOM  43069  O   SER I 126     219.731 116.353  -7.566  1.00 89.03       IS9
ATOM  43070  N   LYS I 127     220.518 114.378  -8.360  1.00114.59       IS9
ATOM  43071  CA  LYS I 127     219.241 113.739  -8.628  1.00114.59       IS9
ATOM  43072  CB  LYS I 127     219.171 112.393  -7.900  1.00110.55       IS9
ATOM  43073  CG  LYS I 127     220.147 111.334  -8.409  1.00110.55       IS9
ATOM  43074  CD  LYS I 127     221.612 111.745  -8.219  1.00110.55       IS9
ATOM  43075  CE  LYS I 127     222.580 110.659  -8.697  1.00110.55       IS9
ATOM  43076  NZ  LYS I 127     224.005 111.118  -8.685  1.00110.55       IS9
ATOM  43077  C   LYS I 127     218.007 114.548  -8.280  1.00114.59       IS9
ATOM  43078  O   LYS I 127     217.230 114.135  -7.424  1.00114.59       IS9
ATOM  43079  N   ARG I 128     217.826 115.696  -8.931  1.00143.15       IS9
ATOM  43080  CA  ARG I 128     216.641 116.515  -8.693  1.00143.15       IS9
ATOM  43081  CB  ARG I 128     216.995 117.976  -8.387  1.00172.33       IS9
ATOM  43082  CG  ARG I 128     215.750 118.817  -8.084  1.00172.33       IS9
ATOM  43083  CD  ARG I 128     215.948 120.327  -8.167  1.00172.33       IS9
ATOM  43084  NE  ARG I 128     216.569 120.904  -6.977  1.00172.33       IS9
ATOM  43085  CZ  ARG I 128     216.533 122.201  -6.671  1.00172.33       IS9
ATOM  43086  NH1 ARG I 128     215.901 123.057  -7.465  1.00172.33       IS9
ATOM  43087  NH2 ARG I 128     217.138 122.649  -5.579  1.00172.33       IS9
ATOM  43088  C   ARG I 128     215.772 116.468  -9.947  1.00143.15       IS9
ATOM  43089  O   ARG I 128     216.174 115.773 -10.904  1.00143.15       IS9
ATOM  43090  OXT ARG I 128     214.705 117.121  -9.964  1.00172.33       IS9
TER   43090       ARG I 128                                              IS9
ATOM  43091  CB  LYS J   3     237.577 168.450  31.456  1.00164.61       JS10
ATOM  43092  CG  LYS J   3     238.416 169.479  30.719  1.00164.61       JS10
ATOM  43093  CD  LYS J   3     239.900 169.264  30.950  1.00164.61       JS10
ATOM  43094  CE  LYS J   3     240.707 170.400  30.344  1.00164.61       JS10
ATOM  43095  NZ  LYS J   3     242.155 170.293  30.664  1.00164.61       JS10
ATOM  43096  C   LYS J   3     235.323 167.650  32.171  1.00 86.46       JS10
ATOM  43097  O   LYS J   3     235.638 167.291  33.308  1.00 86.46       JS10
ATOM  43098  N   LYS J   3     235.834 170.078  32.130  1.00 86.46       JS10
ATOM  43099  CA  LYS J   3     236.078 168.767  31.464  1.00 86.46       JS10
ATOM  43100  N   ILE J   4     234.324 167.104  31.487  1.00124.82       JS10
ATOM  43101  CA  ILE J   4     233.518 166.023  32.035  1.00124.82       JS10
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ATOM  43102  CB  ILE J   4     232.170 166.553  32.567  1.00104.74      JS10
ATOM  43103  CG2 ILE J   4     231.419 165.439  33.274  1.00104.74      JS10
ATOM  43104  CG1 ILE J   4     232.406 167.710  33.536  1.00104.74      JS10
ATOM  43105  CD1 ILE J   4     233.161 167.311  34.784  1.00104.74      JS10
ATOM  43106  C   ILE J   4     233.236 164.985  30.951  1.00124.82      JS10
ATOM  43107  O   ILE J   4     232.313 165.150  30.153  1.00124.82      JS10
ATOM  43108  N   ARG J   5     234.034 163.923  30.904  1.00113.64      JS10
ATOM  43109  CA  ARG J   5     233.803 162.894  29.902  1.00113.64      JS10
ATOM  43110  CB  ARG J   5     234.916 161.835  29.920  1.00174.95      JS10
ATOM  43111  CG  ARG J   5     235.996 162.061  28.855  1.00174.95      JS10
ATOM  43112  CD  ARG J   5     237.030 160.927  28.796  1.00174.95      JS10
ATOM  43113  NE  ARG J   5     237.982 161.103  27.694  1.00174.95      JS10
ATOM  43114  CZ  ARG J   5     239.027 160.310  27.458  1.00174.95      JS10
ATOM  43115  NH1 ARG J   5     239.271 159.272  28.246  1.00174.95      JS10
ATOM  43116  NH2 ARG J   5     239.831 160.555  26.429  1.00174.95      JS10
ATOM  43117  C   ARG J   5     232.454 162.253  30.189  1.00113.64      JS10
ATOM  43118  O   ARG J   5     232.340 161.368  31.040  1.00113.64      JS10
ATOM  43119  N   ILE J   6     231.431 162.729  29.486  1.00108.16      JS10
ATOM  43120  CA  ILE J   6     230.079 162.214  29.646  1.00108.16      JS10
ATOM  43121  CB  ILE J   6     229.047 163.357  29.605  1.00 68.32      JS10
ATOM  43122  CG2 ILE J   6     227.647 162.807  29.871  1.00 68.32      JS10
ATOM  43123  CG1 ILE J   6     229.397 164.407  30.659  1.00 68.32      JS10
ATOM  43124  CD1 ILE J   6     228.438 165.579  30.711  1.00 68.32      JS10
ATOM  43125  C   ILE J   6     229.781 161.238  28.512  1.00108.16      JS10
ATOM  43126  O   ILE J   6     229.772 161.627  27.340  1.00108.16      JS10
ATOM  43127  N   LYS J   7     229.538 159.975  28.859  1.00111.78      JS10
ATOM  43128  CA  LYS J   7     229.259 158.960  27.848  1.00111.78      JS10
ATOM  43129  CB  LYS J   7     230.389 157.926  27.819  1.00127.79      JS10
ATOM  43130  CG  LYS J   7     230.739 157.428  26.417  1.00127.79      JS10
ATOM  43131  CD  LYS J   7     231.957 156.509  26.436  1.00127.79      JS10
ATOM  43132  CE  LYS J   7     232.364 156.065  25.032  1.00127.79      JS10
ATOM  43133  NZ  LYS J   7     232.875 157.191  24.205  1.00127.79      JS10
ATOM  43134  C   LYS J   7     227.914 158.261  28.048  1.00111.78      JS10
ATOM  43135  O   LYS J   7     227.762 157.397  28.914  1.00111.78      JS10
ATOM  43136  N   LEU J   8     226.945 158.656  27.227  1.00 89.78      JS10
ATOM  43137  CA  LEU J   8     225.595 158.102  27.254  1.00 89.78      JS10
ATOM  43138  CB  LEU J   8     224.569 159.205  26.939  1.00 79.76      JS10
ATOM  43139  CG  LEU J   8     224.110 160.211  28.005  1.00 79.76      JS10
ATOM  43140  CD1 LEU J   8     223.467 161.431  27.357  1.00 79.76      JS10
ATOM  43141  CD2 LEU J   8     223.124 159.529  28.929  1.00 79.76      JS10
ATOM  43142  C   LEU J   8     225.474 156.991  26.208  1.00 89.78      JS10
ATOM  43143  O   LEU J   8     225.731 157.220  25.027  1.00 89.78      JS10
ATOM  43144  N   ARG J   9     225.082 155.794  26.639  1.00 71.29      JS10
ATOM  43145  CA  ARG J   9     224.926 154.671  25.716  1.00 71.29      JS10
ATOM  43146  CB  ARG J   9     226.150 153.756  25.763  1.00104.02      JS10
ATOM  43147  CG  ARG J   9     226.394 153.096  27.102  1.00104.02      JS10
ATOM  43148  CD  ARG J   9     227.548 152.131  26.994  1.00104.02      JS10
ATOM  43149  NE  ARG J   9     228.698 152.762  26.353  1.00104.02      JS10
ATOM  43150  CZ  ARG J   9     229.794 152.112  25.972  1.00104.02      JS10
ATOM  43151  NH1 ARG J   9     229.894 150.804  26.168  1.00104.02      JS10
ATOM  43152  NH2 ARG J   9     230.790 152.768  25.386  1.00104.02      JS10
ATOM  43153  C   ARG J   9     223.682 153.848  26.010  1.00 71.29      JS10
ATOM  43154  O   ARG J   9     223.524 153.309  27.101  1.00 71.29      JS10
ATOM  43155  N   GLY J  10     222.802 153.748  25.021  1.00144.38      JS10
ATOM  43156  CA  GLY J  10     221.583 152.983  25.193  1.00144.38      JS10
ATOM  43157  C   GLY J  10     221.305 152.095  23.998  1.00144.38      JS10
ATOM  43158  O   GLY J  10     222.103 152.029  23.061  1.00144.38      JS10
ATOM  43159  N   PHE J  11     220.170 151.406  24.032  1.00103.97      JS10
ATOM  43160  CA  PHE J  11     219.783 150.524  22.944  1.00103.97      JS10
ATOM  43161  CB  PHE J  11     219.108 149.268  23.501  1.00 40.62      JS10
ATOM  43162  CG  PHE J  11     220.064 148.290  24.147  1.00 40.62      JS10
ATOM  43163  CD1 PHE J  11     219.579 147.247  24.950  1.00 40.62      JS10
ATOM  43164  CD2 PHE J  11     221.440 148.383  23.936  1.00 40.62      JS10
ATOM  43165  CE1 PHE J  11     220.450 146.302  25.536  1.00 40.62      JS10
ATOM  43166  CE2 PHE J  11     222.322 147.446  24.514  1.00 40.62      JS10
ATOM  43167  CZ  PHE J  11     221.823 146.402  25.318  1.00 40.62      JS10
ATOM  43168  C   PHE J  11     218.837 151.243  21.989  1.00103.97      JS10
ATOM  43169  O   PHE J  11     218.545 150.739  20.904  1.00103.97      JS10
ATOM  43170  N   ASP J  12     218.372 152.425  22.393  1.00 50.45      JS10
ATOM  43171  CA  ASP J  12     217.451 153.215  21.573  1.00 50.45      JS10
ATOM  43172  CB  ASP J  12     216.203 153.582  22.382  1.00158.20      JS10
ATOM  43173  CG  ASP J  12     215.138 154.260  21.534  1.00158.20      JS10
ATOM  43174  OD1 ASP J  12     215.413 155.335  20.965  1.00158.20      JS10
ATOM  43175  OD2 ASP J  12     214.019 153.716  21.435  1.00158.20      JS10
ATOM  43176  C   ASP J  12     218.090 154.489  21.020  1.00 50.45      JS10
ATOM  43177  O   ASP J  12     218.616 155.294  21.775  1.00 50.45      JS10
ATOM  43178  N   HIS J  13     218.018 154.678  19.703  1.00 83.00      JS10
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ATOM  43179  CA  HIS J  13     218.610 155.855  19.079  1.00 83.00      JS10
ATOM  43180  CB  HIS J  13     218.835 155.614  17.585  1.00 96.77      JS10
ATOM  43181  CG  HIS J  13     217.654 155.950  16.732  1.00 96.77      JS10
ATOM  43182  CD2 HIS J  13     217.433 156.982  15.884  1.00 96.77      JS10
ATOM  43183  ND1 HIS J  13     216.509 155.184  16.710  1.00 96.77      JS10
ATOM  43184  CE1 HIS J  13     215.634 155.730  15.884  1.00 96.77      JS10
ATOM  43185  NE2 HIS J  13     216.171 156.823  15.370  1.00 96.77      JS10
ATOM  43186  C   HIS J  13     217.783 157.129  19.268  1.00 83.00      JS10
ATOM  43187  O   HIS J  13     217.985 158.123  18.563  1.00 83.00      JS10
ATOM  43188  N   LYS J  14     216.847 157.096  20.210  1.00 90.19      JS10
ATOM  43189  CA  LYS J  14     216.009 158.255  20.503  1.00 90.19      JS10
ATOM  43190  CB  LYS J  14     214.618 158.103  19.886  1.00161.50      JS10
ATOM  43191  CG  LYS J  14     214.615 158.111  18.370  1.00161.50      JS10
ATOM  43192  CD  LYS J  14     213.220 158.357  17.815  1.00161.50      JS10
ATOM  43193  CE  LYS J  14     212.734 159.764  18.141  1.00161.50      JS10
ATOM  43194  NZ  LYS J  14     211.401 160.061  17.538  1.00161.50      JS10
ATOM  43195  C   LYS J  14     215.884 158.407  22.005  1.00 90.19      JS10
ATOM  43196  O   LYS J  14     215.420 159.430  22.497  1.00 90.19      JS10
ATOM  43197  N   THR J  15     216.299 157.375  22.729  1.00 83.27      JS10
ATOM  43198  CA  THR J  15     216.243 157.398  24.177  1.00 83.27      JS10
ATOM  43199  CB  THR J  15     216.132 155.971  24.755  1.00 85.85      JS10
ATOM  43200  OG1 THR J  15     215.520 156.036  26.047  1.00 85.85      JS10
ATOM  43201  CG2 THR J  15     217.509 155.315  24.873  1.00 85.85      JS10
ATOM  43202  C   THR J  15     217.513 158.082  24.665  1.00 83.27      JS10
ATOM  43203  O   THR J  15     217.499 158.779  25.674  1.00 83.27      JS10
ATOM  43204  N   LEU J  16     218.619 157.876  23.957  1.00 89.00      JS10
ATOM  43205  CA  LEU J  16     219.852 158.553  24.331  1.00 89.00      JS10
ATOM  43206  CB  LEU J  16     221.086 157.956  23.644  1.00 80.69      JS10
ATOM  43207  CG  LEU J  16     221.617 156.571  24.023  1.00 80.69      JS10
ATOM  43208  CD1 LEU J  16     222.997 156.388  23.395  1.00 80.69      JS10
ATOM  43209  CD2 LEU J  16     221.704 156.427  25.531  1.00 80.69      JS10
ATOM  43210  C   LEU J  16     219.636 159.964  23.814  1.00 89.00      JS10
ATOM  43211  O   LEU J  16     219.725 160.927  24.572  1.00 89.00      JS10
ATOM  43212  N   ASP J  17     219.344 160.078  22.518  1.00 96.74      JS10
ATOM  43213  CA  ASP J  17     219.092 161.381  21.912  1.00 96.74      JS10
ATOM  43214  CB  ASP J  17     218.436 161.230  20.538  1.00145.94      JS10
ATOM  43215  CG  ASP J  17     219.447 161.088  19.423  1.00145.94      JS10
ATOM  43216  OD1 ASP J  17     220.352 161.942  19.336  1.00145.94      JS10
ATOM  43217  OD2 ASP J  17     219.333 160.133  18.628  1.00145.94      JS10
ATOM  43218  C   ASP J  17     218.163 162.142  22.841  1.00 96.74      JS10
ATOM  43219  O   ASP J  17     218.286 163.354  23.006  1.00 96.74      JS10
ATOM  43220  N   ALA J  18     217.225 161.414  23.443  1.00113.08      JS10
ATOM  43221  CA  ALA J  18     216.295 162.015  24.386  1.00113.08      JS10
ATOM  43222  CB  ALA J  18     215.345 160.956  24.948  1.00 94.06      JS10
ATOM  43223  C   ALA J  18     217.183 162.565  25.489  1.00113.08      JS10
ATOM  43224  O   ALA J  18     217.387 163.775  25.594  1.00113.08      JS10
ATOM  43225  N   SER J  19     217.725 161.653  26.291  1.00 71.22      JS10
ATOM  43226  CA  SER J  19     218.617 162.005  27.382  1.00 71.22      JS10
ATOM  43227  CB  SER J  19     219.423 160.784  27.815  1.00 80.72      JS10
ATOM  43228  OG  SER J  19     220.607 161.178  28.489  1.00 80.72      JS10
ATOM  43229  C   SER J  19     219.568 163.111  26.952  1.00 71.22      JS10
ATOM  43230  O   SER J  19     219.284 164.286  27.149  1.00 71.22      JS10
ATOM  43231  N   ALA J  20     220.693 162.728  26.360  1.00 52.86      JS10
ATOM  43232  CA  ALA J  20     221.696 163.684  25.910  1.00 52.86      JS10
ATOM  43233  CB  ALA J  20     222.443 163.125  24.707  1.00108.93      JS10
ATOM  43234  C   ALA J  20     221.144 165.072  25.583  1.00 52.86      JS10
ATOM  43235  O   ALA J  20     221.706 166.066  26.019  1.00 52.86      JS10
ATOM  43236  N   GLN J  21     220.051 165.150  24.828  1.00 79.72      JS10
ATOM  43237  CA  GLN J  21     219.487 166.452  24.481  1.00 79.72      JS10
ATOM  43238  CB  GLN J  21     218.169 166.299  23.721  1.00200.94      JS10
ATOM  43239  CG  GLN J  21     217.597 167.625  23.233  1.00200.94      JS10
ATOM  43240  CD  GLN J  21     216.298 167.463  22.467  1.00200.94      JS10
ATOM  43241  OE1 GLN J  21     215.308 166.959  22.998  1.00200.94      JS10
ATOM  43242  NE2 GLN J  21     216.295 167.893  21.210  1.00200.94      JS10
ATOM  43243  C   GLN J  21     219.255 167.264  25.746  1.00 79.72      JS10
ATOM  43244  O   GLN J  21     219.216 168.492  25.699  1.00 79.72      JS10
ATOM  43245  N   LYS J  22     219.103 166.566  26.871  1.00 99.69      JS10
ATOM  43246  CA  LYS J  22     218.893 167.194  28.176  1.00 99.69      JS10
ATOM  43247  CB  LYS J  22     218.335 166.186  29.187  1.00193.40      JS10
ATOM  43248  CG  LYS J  22     217.056 165.471  28.776  1.00193.40      JS10
ATOM  43249  CD  LYS J  22     216.529 164.630  29.937  1.00193.40      JS10
ATOM  43250  CE  LYS J  22     215.369 163.734  29.525  1.00193.40      JS10
ATOM  43251  NZ  LYS J  22     215.800 162.622  28.629  1.00193.40      JS10
ATOM  43252  C   LYS J  22     220.227 167.723  28.705  1.00 99.69      JS10
ATOM  43253  O   LYS J  22     220.433 168.938  28.792  1.00 99.69      JS10
ATOM  43254  N   ILE J  23     221.122 166.797  29.060  1.00 47.78      JS10
ATOM  43255  CA  ILE J  23     222.454 167.135  29.574  1.00 47.78      JS10
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ATOM  43256  CB  ILE J  23     223.418 165.916  29.497  1.00 43.40      JS10
ATOM  43257  CG2 ILE J  23     224.796 166.302  29.978  1.00 43.40      JS10
ATOM  43258  CG1 ILE J  23     222.900 164.774  30.369  1.00 43.40      JS10
ATOM  43259  CD1 ILE J  23     221.646 164.126  29.845  1.00 43.40      JS10
ATOM  43260  C   ILE J  23     223.066 168.301  28.787  1.00 47.78      JS10
ATOM  43261  O   ILE J  23     223.955 168.998  29.269  1.00 47.78      JS10
ATOM  43262  N   VAL J  24     222.582 168.503  27.569  1.00107.54      JS10
ATOM  43263  CA  VAL J  24     223.067 169.588  26.737  1.00107.54      JS10
ATOM  43264  CB  VAL J  24     222.697 169.373  25.255  1.00201.26      JS10
ATOM  43265  CG1 VAL J  24     223.157 170.560  24.426  1.00201.26      JS10
ATOM  43266  CG2 VAL J  24     223.340 168.095  24.739  1.00201.26      JS10
ATOM  43267  C   VAL J  24     222.445 170.891  27.221  1.00107.54      JS10
ATOM  43268  O   VAL J  24     223.124 171.716  27.827  1.00107.54      JS10
ATOM  43269  N   GLU J  25     221.153 171.068  26.967  1.00126.24      JS10
ATOM  43270  CA  GLU J  25     220.463 172.284  27.383  1.00126.24      JS10
ATOM  43271  CB  GLU J  25     218.984 172.229  26.982  1.00177.36      JS10
ATOM  43272  CG  GLU J  25     218.741 172.248  25.480  1.00177.36      JS10
ATOM  43273  CD  GLU J  25     217.281 172.469  25.124  1.00177.36      JS10
ATOM  43274  OE1 GLU J  25     216.755 173.567  25.409  1.00177.36      JS10
ATOM  43275  OE2 GLU J  25     216.659 171.545  24.560  1.00177.36      JS10
ATOM  43276  C   GLU J  25     220.572 172.526  28.886  1.00126.24      JS10
ATOM  43277  O   GLU J  25     220.776 173.661  29.322  1.00126.24      JS10
ATOM  43278  N   ALA J  26     220.437 171.460  29.670  1.00170.35      JS10
ATOM  43279  CA  ALA J  26     220.516 171.549  31.127  1.00170.35      JS10
ATOM  43280  CB  ALA J  26     220.699 170.158  31.724  1.00104.03      JS10
ATOM  43281  C   ALA J  26     221.650 172.461  31.586  1.00170.35      JS10
ATOM  43282  O   ALA J  26     221.421 173.606  31.979  1.00170.35      JS10
ATOM  43283  N   ALA J  27     222.872 171.944  31.535  1.00120.35      JS10
ATOM  43284  CA  ALA J  27     224.044 172.706  31.944  1.00120.35      JS10
ATOM  43285  CB  ALA J  27     225.154 171.759  32.372  1.00 19.83      JS10
ATOM  43286  C   ALA J  27     224.545 173.622  30.834  1.00120.35      JS10
ATOM  43287  O   ALA J  27     225.753 173.819  30.690  1.00120.35      JS10
ATOM  43288  N   ARG J  28     223.623 174.171  30.045  1.00134.00      JS10
ATOM  43289  CA  ARG J  28     223.997 175.076  28.961  1.00134.00      JS10
ATOM  43290  CB  ARG J  28     223.101 174.874  27.734  1.00201.26      JS10
ATOM  43291  CG  ARG J  28     223.819 174.197  26.576  1.00201.26      JS10
ATOM  43292  CD  ARG J  28     223.014 174.240  25.287  1.00201.26      JS10
ATOM  43293  NE  ARG J  28     223.706 173.550  24.199  1.00201.26      JS10
ATOM  43294  CZ  ARG J  28     224.901 173.893  23.727  1.00201.26      JS10
ATOM  43295  NH1 ARG J  28     225.550 174.928  24.243  1.00201.26      JS10
ATOM  43296  NH2 ARG J  28     225.453 173.198  22.741  1.00201.26      JS10
ATOM  43297  C   ARG J  28     223.911 176.518  29.428  1.00134.00      JS10
ATOM  43298  O   ARG J  28     224.045 177.454  28.639  1.00134.00      JS10
ATOM  43299  N   ARG J  29     223.675 176.687  30.723  1.00180.39      JS10
ATOM  43300  CA  ARG J  29     223.595 178.009  31.321  1.00180.39      JS10
ATOM  43301  CB  ARG J  29     222.142 178.422  31.554  1.00125.67      JS10
ATOM  43302  CG  ARG J  29     221.185 178.087  30.423  1.00125.67      JS10
ATOM  43303  CD  ARG J  29     220.557 176.717  30.637  1.00125.67      JS10
ATOM  43304  NE  ARG J  29     219.283 176.589  29.937  1.00125.67      JS10
ATOM  43305  CZ  ARG J  29     218.352 175.685  30.231  1.00125.67      JS10
ATOM  43306  NH1 ARG J  29     218.548 174.818  31.217  1.00125.67      JS10
ATOM  43307  NH2 ARG J  29     217.216 175.657  29.546  1.00125.67      JS10
ATOM  43308  C   ARG J  29     224.320 177.931  32.655  1.00180.39      JS10
ATOM  43309  O   ARG J  29     224.965 178.887  33.084  1.00180.39      JS10
ATOM  43310  N   SER J  30     224.215 176.774  33.302  1.00153.40      JS10
ATOM  43311  CA  SER J  30     224.856 176.552  34.591  1.00153.40      JS10
ATOM  43312  CB  SER J  30     224.311 175.278  35.236  1.00 94.97      JS10
ATOM  43313  OG  SER J  30     224.712 174.130  34.509  1.00 94.97      JS10
ATOM  43314  C   SER J  30     226.372 176.440  34.448  1.00153.40      JS10
ATOM  43315  O   SER J  30     227.112 176.751  35.382  1.00153.40      JS10
ATOM  43316  N   GLY J  31     226.826 175.993  33.278  1.00175.23      JS10
ATOM  43317  CA  GLY J  31     228.252 175.847  33.031  1.00175.23      JS10
ATOM  43318  C   GLY J  31     228.700 176.512  31.741  1.00175.23      JS10
ATOM  43319  O   GLY J  31     228.194 177.573  31.377  1.00175.23      JS10
ATOM  43320  N   ALA J  32     229.655 175.896  31.049  1.00201.26      JS10
ATOM  43321  CA  ALA J  32     230.160 176.438  29.789  1.00201.26      JS10
ATOM  43322  CB  ALA J  32     231.412 175.686  29.360  1.00 93.53      JS10
ATOM  43323  C   ALA J  32     229.088 176.318  28.712  1.00201.26      JS10
ATOM  43324  O   ALA J  32     227.898 176.432  29.001  1.00201.26      JS10
ATOM  43325  N   GLN J  33     229.509 176.091  27.471  1.00201.26      JS10
ATOM  43326  CA  GLN J  33     228.561 175.947  26.372  1.00201.26      JS10
ATOM  43327  CB  GLN J  33     228.919 176.897  25.223  1.00201.26      JS10
ATOM  43328  CG  GLN J  33     227.848 176.978  24.139  1.00201.26      JS10
ATOM  43329  CD  GLN J  33     228.059 178.134  23.182  1.00201.26      JS10
ATOM  43330  OE1 GLN J  33     229.114 178.256  22.562  1.00201.26      JS10
ATOM  43331  NE2 GLN J  33     227.050 178.990  23.055  1.00201.26      JS10
ATOM  43332  C   GLN J  33     228.530 174.500  25.882  1.00201.26      JS10
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ATOM  43333  O   GLN J  33     227.951 174.192  24.838  1.00201.26      JS10
ATOM  43334  N   VAL J  34     229.161 173.616  26.650  1.00182.00      JS10
ATOM  43335  CA  VAL J  34     229.196 172.195  26.325  1.00182.00      JS10
ATOM  43336  CB  VAL J  34     227.767 171.625  26.255  1.00119.75      JS10
ATOM  43337  CG1 VAL J  34     227.814 170.126  26.049  1.00119.75      JS10
ATOM  43338  CG2 VAL J  34     227.011 171.969  27.528  1.00119.75      JS10
ATOM  43339  C   VAL J  34     229.905 171.915  25.003  1.00182.00      JS10
ATOM  43340  O   VAL J  34     229.950 172.769  24.117  1.00182.00      JS10
ATOM  43341  N   SER J  35     230.454 170.709  24.879  1.00142.58      JS10
ATOM  43342  CA  SER J  35     231.163 170.303  23.668  1.00142.58      JS10
ATOM  43343  CB  SER J  35     232.194 169.220  23.999  1.00110.27      JS10
ATOM  43344  OG  SER J  35     232.996 168.918  22.871  1.00110.27      JS10
ATOM  43345  C   SER J  35     230.192 169.783  22.608  1.00142.58      JS10
ATOM  43346  O   SER J  35     230.598 169.147  21.633  1.00142.58      JS10
ATOM  43347  N   GLY J  36     228.907 170.062  22.805  1.00123.94      JS10
ATOM  43348  CA  GLY J  36     227.898 169.621  21.860  1.00123.94      JS10
ATOM  43349  C   GLY J  36     227.724 168.119  21.880  1.00123.94      JS10
ATOM  43350  O   GLY J  36     228.651 167.395  22.238  1.00123.94      JS10
ATOM  43351  N   PRO J  37     226.537 167.615  21.517  1.00106.98      JS10
ATOM  43352  CD  PRO J  37     225.298 168.358  21.216  1.00151.72      JS10
ATOM  43353  CA  PRO J  37     226.298 166.169  21.509  1.00106.98      JS10
ATOM  43354  CB  PRO J  37     224.775 166.081  21.514  1.00151.72      JS10
ATOM  43355  CG  PRO J  37     224.381 167.272  20.688  1.00151.72      JS10
ATOM  43356  C   PRO J  37     226.926 165.502  20.278  1.00106.98      JS10
ATOM  43357  O   PRO J  37     226.440 165.667  19.158  1.00106.98      JS10
ATOM  43358  N   ILE J  38     228.007 164.753  20.487  1.00 92.35      JS10
ATOM  43359  CA  ILE J  38     228.678 164.082  19.379  1.00 92.35      JS10
ATOM  43360  CB  ILE J  38     230.195 164.213  19.473  1.00 78.20      JS10
ATOM  43361  CG2 ILE J  38     230.760 164.461  18.081  1.00 78.20      JS10
ATOM  43362  CG1 ILE J  38     230.562 165.361  20.415  1.00 78.20      JS10
ATOM  43363  CD1 ILE J  38     232.021 165.377  20.841  1.00 78.20      JS10
ATOM  43364  C   ILE J  38     228.335 162.599  19.314  1.00 92.35      JS10
ATOM  43365  O   ILE J  38     228.590 161.845  20.254  1.00 92.35      JS10
ATOM  43366  N   PRO J  39     227.771 162.166  18.176  1.00 81.79      JS10
ATOM  43367  CD  PRO J  39     227.725 163.021  16.980  1.00102.00      JS10
ATOM  43368  CA  PRO J  39     227.335 160.810  17.838  1.00 81.79      JS10
ATOM  43369  CB  PRO J  39     227.256 160.840  16.307  1.00102.00      JS10
ATOM  43370  CG  PRO J  39     228.059 162.048  15.918  1.00102.00      JS10
ATOM  43371  C   PRO J  39     228.148 159.632  18.359  1.00 81.79      JS10
ATOM  43372  O   PRO J  39     227.736 158.977  19.311  1.00 81.79      JS10
ATOM  43373  N   LEU J  40     229.290 159.356  17.738  1.00 66.56      JS10
ATOM  43374  CA  LEU J  40     230.127 158.222  18.136  1.00 66.56      JS10
ATOM  43375  CB  LEU J  40     230.218 158.089  19.658  1.00118.60      JS10
ATOM  43376  CG  LEU J  40     231.271 158.931  20.371  1.00118.60      JS10
ATOM  43377  CD1 LEU J  40     231.210 158.642  21.861  1.00118.60      JS10
ATOM  43378  CD2 LEU J  40     232.653 158.601  19.826  1.00118.60      JS10
ATOM  43379  C   LEU J  40     229.567 156.929  17.560  1.00 66.56      JS10
ATOM  43380  O   LEU J  40     228.423 156.565  17.824  1.00 66.56      JS10
ATOM  43381  N   PRO J  41     230.389 156.199  16.794  1.00 69.08      JS10
ATOM  43382  CD  PRO J  41     231.851 156.333  16.865  1.00 63.58      JS10
ATOM  43383  CA  PRO J  41     230.050 154.938  16.138  1.00 69.08      JS10
ATOM  43384  CB  PRO J  41     231.408 154.404  15.720  1.00 63.58      JS10
ATOM  43385  CG  PRO J  41     232.282 154.900  16.791  1.00 63.58      JS10
ATOM  43386  C   PRO J  41     229.275 153.929  16.968  1.00 69.08      JS10
ATOM  43387  O   PRO J  41     229.451 153.824  18.182  1.00 69.08      JS10
ATOM  43388  N   THR J  42     228.439 153.169  16.269  1.00 97.07      JS10
ATOM  43389  CA  THR J  42     227.598 152.141  16.862  1.00 97.07      JS10
ATOM  43390  CB  THR J  42     226.276 152.051  16.106  1.00 63.78      JS10
ATOM  43391  OG1 THR J  42     225.747 153.370  15.928  1.00 63.78      JS10
ATOM  43392  CG2 THR J  42     225.285 151.190  16.870  1.00 63.78      JS10
ATOM  43393  C   THR J  42     228.262 150.772  16.786  1.00 97.07      JS10
ATOM  43394  O   THR J  42     229.114 150.533  15.938  1.00 97.07      JS10
ATOM  43395  N   ARG J  43     227.867 149.869  17.672  1.00 79.97      JS10
ATOM  43396  CA  ARG J  43     228.419 148.524  17.652  1.00 79.97      JS10
ATOM  43397  CB  ARG J  43     229.328 148.289  18.858  1.00163.56      JS10
ATOM  43398  CG  ARG J  43     230.693 148.941  18.710  1.00163.56      JS10
ATOM  43399  CD  ARG J  43     231.744 148.238  19.556  1.00163.56      JS10
ATOM  43400  NE  ARG J  43     233.097 148.647  19.185  1.00163.56      JS10
ATOM  43401  CZ  ARG J  43     234.206 148.080  19.649  1.00163.56      JS10
ATOM  43402  NH1 ARG J  43     234.131 147.074  20.510  1.00163.56      JS10
ATOM  43403  NH2 ARG J  43     235.392 148.515  19.246  1.00163.56      JS10
ATOM  43404  C   ARG J  43     227.306 147.484  17.616  1.00 79.97      JS10
ATOM  43405  O   ARG J  43     226.776 147.088  18.659  1.00 79.97      JS10
ATOM  43406  N   VAL J  44     226.973 147.052  16.398  1.00 48.30      JS10
ATOM  43407  CA  VAL J  44     225.924 146.066  16.146  1.00 48.30      JS10
ATOM  43408  CB  VAL J  44     225.465 146.122  14.683  1.00 48.65      JS10
ATOM  43409  CG1 VAL J  44     224.470 145.015  14.422  1.00 48.65      JS10
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ATOM  43410  CG2 VAL J  44     224.843 147.473  14.372  1.00 48.65      JS10
ATOM  43411  C   VAL J  44     226.321 144.618  16.443  1.00 48.30      JS10
ATOM  43412  O   VAL J  44     227.424 144.189  16.120  1.00 48.30      JS10
ATOM  43413  N   ARG J  45     225.398 143.876  17.051  1.00 87.64      JS10
ATOM  43414  CA  ARG J  45     225.590 142.468  17.402  1.00 87.64      JS10
ATOM  43415  CB  ARG J  45     225.265 142.243  18.878  1.00119.22      JS10
ATOM  43416  CG  ARG J  45     225.977 143.174  19.837  1.00119.22      JS10
ATOM  43417  CD  ARG J  45     227.434 142.798  20.011  1.00119.22      JS10
ATOM  43418  NE  ARG J  45     227.646 141.822  21.079  1.00119.22      JS10
ATOM  43419  CZ  ARG J  45     227.100 140.610  21.122  1.00119.22      JS10
ATOM  43420  NH1 ARG J  45     226.290 140.193  20.160  1.00119.22      JS10
ATOM  43421  NH2 ARG J  45     227.380 139.804  22.133  1.00119.22      JS10
ATOM  43422  C   ARG J  45     224.574 141.699  16.565  1.00 87.64      JS10
ATOM  43423  O   ARG J  45     223.373 141.880  16.762  1.00 87.64      JS10
ATOM  43424  N   ARG J  46     225.032 140.852  15.641  1.00 77.37      JS10
ATOM  43425  CA  ARG J  46     224.109 140.086  14.796  1.00 77.37      JS10
ATOM  43426  CB  ARG J  46     224.570 140.090  13.338  1.00109.10      JS10
ATOM  43427  CG  ARG J  46     224.595 141.453  12.699  1.00109.10      JS10
ATOM  43428  CD  ARG J  46     224.931 141.350  11.226  1.00109.10      JS10
ATOM  43429  NE  ARG J  46     225.365 142.636  10.689  1.00109.10      JS10
ATOM  43430  CZ  ARG J  46     224.630 143.744  10.705  1.00109.10      JS10
ATOM  43431  NH1 ARG J  46     223.409 143.733  11.231  1.00109.10      JS10
ATOM  43432  NH2 ARG J  46     225.122 144.871  10.205  1.00109.10      JS10
ATOM  43433  C   ARG J  46     223.916 138.645  15.246  1.00 77.37      JS10
ATOM  43434  O   ARG J  46     224.824 138.015  15.790  1.00 77.37      JS10
ATOM  43435  N   PHE J  47     222.715 138.131  15.014  1.00106.47      JS10
ATOM  43436  CA  PHE J  47     222.386 136.764  15.375  1.00106.47      JS10
ATOM  43437  CB  PHE J  47     221.387 136.733  16.527  1.00 82.46      JS10
ATOM  43438  CG  PHE J  47     221.880 137.405  17.761  1.00 82.46      JS10
ATOM  43439  CD1 PHE J  47     221.860 138.791  17.868  1.00 82.46      JS10
ATOM  43440  CD2 PHE J  47     222.388 136.658  18.810  1.00 82.46      JS10
ATOM  43441  CE1 PHE J  47     222.342 139.426  19.007  1.00 82.46      JS10
ATOM  43442  CE2 PHE J  47     222.874 137.279  19.954  1.00 82.46      JS10
ATOM  43443  CZ  PHE J  47     222.852 138.666  20.054  1.00 82.46      JS10
ATOM  43444  C   PHE J  47     221.801 136.049  14.174  1.00106.47      JS10
ATOM  43445  O   PHE J  47     220.842 136.512  13.555  1.00106.47      JS10
ATOM  43446  N   THR J  48     222.393 134.915  13.846  1.00 46.05      JS10
ATOM  43447  CA  THR J  48     221.940 134.138  12.721  1.00 46.05      JS10
ATOM  43448  CB  THR J  48     223.091 133.868  11.753  1.00143.69      JS10
ATOM  43449  OG1 THR J  48     223.562 135.109  11.216  1.00143.69      JS10
ATOM  43450  CG2 THR J  48     222.640 132.958  10.630  1.00143.69      JS10
ATOM  43451  C   THR J  48     221.457 132.827  13.279  1.00 46.05      JS10
ATOM  43452  O   THR J  48     222.259 132.007  13.713  1.00 46.05      JS10
ATOM  43453  N   VAL J  49     220.146 132.626  13.276  1.00 55.83      JS10
ATOM  43454  CA  VAL J  49     219.585 131.383  13.792  1.00 55.83      JS10
ATOM  43455  CB  VAL J  49     218.693 131.659  14.999  1.00 37.31      JS10
ATOM  43456  CG1 VAL J  49     219.527 131.736  16.258  1.00 37.31      JS10
ATOM  43457  CG2 VAL J  49     217.959 132.964  14.779  1.00 37.31      JS10
ATOM  43458  C   VAL J  49     218.749 130.674  12.742  1.00 55.83      JS10
ATOM  43459  O   VAL J  49     218.001 131.328  12.024  1.00 55.83      JS10
ATOM  43460  N   ILE J  50     218.883 129.352  12.629  1.00 33.55      JS10
ATOM  43461  CA  ILE J  50     218.065 128.632  11.667  1.00 33.55      JS10
ATOM  43462  CB  ILE J  50     218.113 127.132  11.877  1.00 49.53      JS10
ATOM  43463  CG2 ILE J  50     217.117 126.450  10.962  1.00 49.53      JS10
ATOM  43464  CG1 ILE J  50     219.510 126.607  11.600  1.00 49.53      JS10
ATOM  43465  CD1 ILE J  50     219.583 125.078  11.663  1.00 49.53      JS10
ATOM  43466  C   ILE J  50     216.672 129.079  12.049  1.00 33.55      JS10
ATOM  43467  O   ILE J  50     216.389 129.224  13.229  1.00 33.55      JS10
ATOM  43468  N   ARG J  51     215.791 129.280  11.079  1.00 35.15      JS10
ATOM  43469  CA  ARG J  51     214.444 129.741  11.393  1.00 35.15      JS10
ATOM  43470  CB  ARG J  51     213.766 130.256  10.138  1.00 36.09      JS10
ATOM  43471  CG  ARG J  51     212.585 131.108  10.435  1.00 36.09      JS10
ATOM  43472  CD  ARG J  51     212.075 131.750   9.185  1.00 36.09      JS10
ATOM  43473  NE  ARG J  51     212.921 132.842   8.718  1.00 36.09      JS10
ATOM  43474  CZ  ARG J  51     212.487 134.093   8.604  1.00 36.09      JS10
ATOM  43475  NH1 ARG J  51     211.231 134.387   8.932  1.00 36.09      JS10
ATOM  43476  NH2 ARG J  51     213.291 135.046   8.149  1.00 36.09      JS10
ATOM  43477  C   ARG J  51     213.528 128.742  12.087  1.00 35.15      JS10
ATOM  43478  O   ARG J  51     212.669 129.135  12.860  1.00 35.15      JS10
ATOM  43479  N   GLY J  52     213.682 127.457  11.820  1.00 41.80      JS10
ATOM  43480  CA  GLY J  52     212.826 126.504  12.497  1.00 41.80      JS10
ATOM  43481  C   GLY J  52     213.655 125.508  13.274  1.00 41.80      JS10
ATOM  43482  O   GLY J  52     214.875 125.646  13.343  1.00 41.80      JS10
ATOM  43483  N   PRO J  53     213.028 124.517  13.917  1.00 42.37      JS10
ATOM  43484  CD  PRO J  53     211.598 124.465  14.279  1.00 13.71      JS10
ATOM  43485  CA  PRO J  53     213.817 123.525  14.665  1.00 42.37      JS10
ATOM  43486  CB  PRO J  53     212.886 123.125  15.789  1.00 13.71      JS10
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ATOM  43487  CG  PRO J  53     211.513 123.184  15.105  1.00 13.71      JS10
ATOM  43488  C   PRO J  53     214.064 122.362  13.715  1.00 42.37      JS10
ATOM  43489  O   PRO J  53     213.471 122.313  12.632  1.00 42.37      JS10
ATOM  43490  N   PHE J  54     214.921 121.429  14.097  1.00 63.24      JS10
ATOM  43491  CA  PHE J  54     215.187 120.265  13.244  1.00 63.24      JS10
ATOM  43492  CB  PHE J  54     214.057 119.260  13.366  1.00 47.92      JS10
ATOM  43493  CG  PHE J  54     214.487 117.851  13.150  1.00 47.92      JS10
ATOM  43494  CD1 PHE J  54     215.163 117.162  14.153  1.00 47.92      JS10
ATOM  43495  CD2 PHE J  54     214.203 117.200  11.962  1.00 47.92      JS10
ATOM  43496  CE1 PHE J  54     215.546 115.841  13.982  1.00 47.92      JS10
ATOM  43497  CE2 PHE J  54     214.583 115.875  11.775  1.00 47.92      JS10
ATOM  43498  CZ  PHE J  54     215.255 115.193  12.790  1.00 47.92      JS10
ATOM  43499  C   PHE J  54     215.387 120.544  11.751  1.00 63.24      JS10
ATOM  43500  O   PHE J  54     214.440 120.880  11.030  1.00 63.24      JS10
ATOM  43501  N   LYS J  55     216.622 120.348  11.295  1.00 38.36      JS10
ATOM  43502  CA  LYS J  55     217.015 120.561   9.908  1.00 38.36      JS10
ATOM  43503  CB  LYS J  55     216.551 119.393   9.025  1.00 71.03      JS10
ATOM  43504  CG  LYS J  55     215.073 119.283   8.740  1.00 71.03      JS10
ATOM  43505  CD  LYS J  55     214.854 118.115   7.785  1.00 71.03      JS10
ATOM  43506  CE  LYS J  55     213.400 117.992   7.333  1.00 71.03      JS10
ATOM  43507  NZ  LYS J  55     213.165 116.830   6.404  1.00 71.03      JS10
ATOM  43508  C   LYS J  55     216.571 121.895   9.320  1.00 38.36      JS10
ATOM  43509  O   LYS J  55     216.451 122.884  10.033  1.00 38.36      JS10
ATOM  43510  N   HIS J  56     216.348 121.917   8.014  1.00 27.26      JS10
ATOM  43511  CA  HIS J  56     215.961 123.131   7.299  1.00 27.26      JS10
ATOM  43512  CB  HIS J  56     214.703 123.729   7.920  1.00 62.69      JS10
ATOM  43513  CG  HIS J  56     213.486 122.887   7.710  1.00 62.69      JS10
ATOM  43514  CD2 HIS J  56     212.765 122.135   8.572  1.00 62.69      JS10
ATOM  43515  ND1 HIS J  56     212.927 122.687   6.466  1.00 62.69      JS10
ATOM  43516  CE1 HIS J  56     211.918 121.843   6.571  1.00 62.69      JS10
ATOM  43517  NE2 HIS J  56     211.798 121.494   7.838  1.00 62.69      JS10
ATOM  43518  C   HIS J  56     217.101 124.144   7.286  1.00 27.26      JS10
ATOM  43519  O   HIS J  56     216.897 125.326   7.023  1.00 27.26      JS10
ATOM  43520  N   LYS J  57     218.309 123.634   7.536  1.00 49.77      JS10
ATOM  43521  CA  LYS J  57     219.559 124.403   7.592  1.00 49.77      JS10
ATOM  43522  CB  LYS J  57     220.741 123.505   7.198  1.00129.34      JS10
ATOM  43523  CG  LYS J  57     220.489 122.674   5.944  1.00129.34      JS10
ATOM  43524  CD  LYS J  57     221.715 122.596   5.033  1.00129.34      JS10
ATOM  43525  CE  LYS J  57     221.446 121.692   3.827  1.00129.34      JS10
ATOM  43526  NZ  LYS J  57     222.569 121.610   2.843  1.00129.34      JS10
ATOM  43527  C   LYS J  57     219.649 125.700   6.798  1.00 49.77      JS10
ATOM  43528  O   LYS J  57     220.460 126.557   7.130  1.00 49.77      JS10
ATOM  43529  N   ASP J  58     218.844 125.848   5.755  1.00 20.89      JS10
ATOM  43530  CA  ASP J  58     218.906 127.053   4.960  1.00 20.89      JS10
ATOM  43531  CB  ASP J  58     218.900 126.708   3.470  1.00109.55      JS10
ATOM  43532  CG  ASP J  58     220.258 126.241   2.971  1.00109.55      JS10
ATOM  43533  OD1 ASP J  58     221.247 126.983   3.145  1.00109.55      JS10
ATOM  43534  OD2 ASP J  58     220.340 125.136   2.398  1.00109.55      JS10
ATOM  43535  C   ASP J  58     217.775 128.023   5.263  1.00 20.89      JS10
ATOM  43536  O   ASP J  58     217.385 128.810   4.390  1.00 20.89      JS10
ATOM  43537  N   SER J  59     217.253 127.981   6.491  1.00 85.96      JS10
ATOM  43538  CA  SER J  59     216.145 128.852   6.904  1.00 85.96      JS10
ATOM  43539  CB  SER J  59     215.332 128.183   8.008  1.00114.70      JS10
ATOM  43540  OG  SER J  59     214.754 126.976   7.553  1.00114.70      JS10
ATOM  43541  C   SER J  59     216.628 130.204   7.397  1.00 85.96      JS10
ATOM  43542  O   SER J  59     216.392 131.220   6.754  1.00 85.96      JS10
ATOM  43543  N   ARG J  60     217.251 130.206   8.572  1.00 80.22      JS10
ATOM  43544  CA  ARG J  60     217.827 131.408   9.177  1.00 80.22      JS10
ATOM  43545  CB  ARG J  60     218.855 131.988   8.213  1.00 55.31      JS10
ATOM  43546  CG  ARG J  60     220.185 131.258   8.257  1.00 55.31      JS10
ATOM  43547  CD  ARG J  60     219.994 129.756   8.393  1.00 55.31      JS10
ATOM  43548  NE  ARG J  60     221.133 129.111   9.042  1.00 55.31      JS10
ATOM  43549  CZ  ARG J  60     222.328 128.966   8.483  1.00 55.31      JS10
ATOM  43550  NH1 ARG J  60     222.542 129.419   7.259  1.00 55.31      JS10
ATOM  43551  NH2 ARG J  60     223.308 128.372   9.147  1.00 55.31      JS10
ATOM  43552  C   ARG J  60     217.013 132.558   9.795  1.00 80.22      JS10
ATOM  43553  O   ARG J  60     216.376 132.374  10.826  1.00 80.22      JS10
ATOM  43554  N   GLU J  61     217.050 133.737   9.175  1.00 47.72      JS10
ATOM  43555  CA  GLU J  61     216.411 134.961   9.705  1.00 47.72      JS10
ATOM  43556  CB  GLU J  61     215.100 134.691  10.440  1.00 47.20      JS10
ATOM  43557  CG  GLU J  61     214.586 135.942  11.180  1.00 47.20      JS10
ATOM  43558  CD  GLU J  61     213.571 135.621  12.261  1.00 47.20      JS10
ATOM  43559  OE1 GLU J  61     213.858 134.728  13.080  1.00 47.20      JS10
ATOM  43560  OE2 GLU J  61     212.499 136.265  12.300  1.00 47.20      JS10
ATOM  43561  C   GLU J  61     217.372 135.651  10.708  1.00 47.72      JS10
ATOM  43562  O   GLU J  61     217.861 135.027  11.665  1.00 47.72      JS10
ATOM  43563  N   HIS J  62     217.605 136.946  10.504  1.00103.36      JS10
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ATOM  43564  CA  HIS J  62     218.535 137.695  11.343  1.00103.36      JS10
ATOM  43565  CB  HIS J  62     219.454 138.521  10.448  1.00 83.22      JS10
ATOM  43566  CG  HIS J  62     220.562 137.726   9.834  1.00 83.22      JS10
ATOM  43567  CD2 HIS J  62     221.370 136.776  10.361  1.00 83.22      JS10
ATOM  43568  ND1 HIS J  62     220.951 137.879   8.521  1.00 83.22      JS10
ATOM  43569  CE1 HIS J  62     221.951 137.055   8.265  1.00 83.22      JS10
ATOM  43570  NE2 HIS J  62     222.225 136.375   9.364  1.00 83.22      JS10
ATOM  43571  C   HIS J  62     218.002 138.587  12.456  1.00103.36      JS10
ATOM  43572  O   HIS J  62     216.904 139.135  12.374  1.00103.36      JS10
ATOM  43573  N   PHE J  63     218.831 138.732  13.490  1.00 60.41      JS10
ATOM  43574  CA  PHE J  63     218.543 139.543  14.670  1.00 60.41      JS10
ATOM  43575  CB  PHE J  63     218.234 138.658  15.871  1.00 58.67      JS10
ATOM  43576  CG  PHE J  63     216.953 137.919  15.764  1.00 58.67      JS10
ATOM  43577  CD1 PHE J  63     216.890 136.573  16.116  1.00 58.67      JS10
ATOM  43578  CD2 PHE J  63     215.797 138.567  15.337  1.00 58.67      JS10
ATOM  43579  CE1 PHE J  63     215.694 135.877  16.047  1.00 58.67      JS10
ATOM  43580  CE2 PHE J  63     214.594 137.884  15.263  1.00 58.67      JS10
ATOM  43581  CZ  PHE J  63     214.540 136.530  15.620  1.00 58.67      JS10
ATOM  43582  C   PHE J  63     219.791 140.318  15.017  1.00 60.41      JS10
ATOM  43583  O   PHE J  63     220.864 139.728  15.102  1.00 60.41      JS10
ATOM  43584  N   GLU J  64     219.660 141.624  15.232  1.00 56.16      JS10
ATOM  43585  CA  GLU J  64     220.813 142.429  15.614  1.00 56.16      JS10
ATOM  43586  CB  GLU J  64     220.984 143.597  14.646  1.00 68.92      JS10
ATOM  43587  CG  GLU J  64     219.911 144.647  14.726  1.00 68.92      JS10
ATOM  43588  CD  GLU J  64     220.103 145.739  13.682  1.00 68.92      JS10
ATOM  43589  OE1 GLU J  64     219.394 146.770  13.756  1.00 68.92      JS10
ATOM  43590  OE2 GLU J  64     220.961 145.561  12.784  1.00 68.92      JS10
ATOM  43591  C   GLU J  64     220.670 142.929  17.063  1.00 56.16      JS10
ATOM  43592  O   GLU J  64     219.917 142.351  17.850  1.00 56.16      JS10
ATOM  43593  N   LEU J  65     221.418 143.973  17.420  1.00 62.54      JS10
ATOM  43594  CA  LEU J  65     221.368 144.568  18.765  1.00 62.54      JS10
ATOM  43595  CB  LEU J  65     221.900 143.593  19.838  1.00 32.35      JS10
ATOM  43596  CG  LEU J  65     221.346 143.798  21.267  1.00 32.35      JS10
ATOM  43597  CD1 LEU J  65     221.842 142.731  22.232  1.00 32.35      JS10
ATOM  43598  CD2 LEU J  65     221.749 145.167  21.755  1.00 32.35      JS10
ATOM  43599  C   LEU J  65     222.219 145.834  18.755  1.00 62.54      JS10
ATOM  43600  O   LEU J  65     223.278 145.886  19.375  1.00 62.54      JS10
ATOM  43601  N   ARG J  66     221.743 146.854  18.051  1.00 86.54      JS10
ATOM  43602  CA  ARG J  66     222.465 148.112  17.931  1.00 86.54      JS10
ATOM  43603  CB  ARG J  66     221.717 149.033  16.965  1.00128.64      JS10
ATOM  43604  CG  ARG J  66     221.657 148.520  15.534  1.00128.64      JS10
ATOM  43605  CD  ARG J  66     220.972 149.525  14.614  1.00128.64      JS10
ATOM  43606  NE  ARG J  66     221.082 149.155  13.203  1.00128.64      JS10
ATOM  43607  CZ  ARG J  66     220.546 149.847  12.201  1.00128.64      JS10
ATOM  43608  NH1 ARG J  66     219.856 150.955  12.446  1.00128.64      JS10
ATOM  43609  NH2 ARG J  66     220.694 149.430  10.949  1.00128.64      JS10
ATOM  43610  C   ARG J  66     222.725 148.855  19.248  1.00 86.54      JS10
ATOM  43611  O   ARG J  66     221.819 149.473  19.811  1.00 86.54      JS10
ATOM  43612  N   THR J  67     223.967 148.792  19.732  1.00 90.23      JS10
ATOM  43613  CA  THR J  67     224.358 149.486  20.963  1.00 90.23      JS10
ATOM  43614  CB  THR J  67     225.533 148.778  21.688  1.00 46.19      JS10
ATOM  43615  OG1 THR J  67     225.067 147.582  22.322  1.00 46.19      JS10
ATOM  43616  CG2 THR J  67     226.140 149.684  22.736  1.00 46.19      JS10
ATOM  43617  C   THR J  67     224.820 150.874  20.552  1.00 90.23      JS10
ATOM  43618  O   THR J  67     225.927 151.042  20.051  1.00 90.23      JS10
ATOM  43619  N   HIS J  68     223.975 151.871  20.764  1.00107.48      JS10
ATOM  43620  CA  HIS J  68     224.314 153.230  20.376  1.00107.48      JS10
ATOM  43621  CB  HIS J  68     223.034 154.035  20.204  1.00 81.75      JS10
ATOM  43622  CG  HIS J  68     222.145 153.516  19.121  1.00 81.75      JS10
ATOM  43623  CD2 HIS J  68     221.064 152.703  19.170  1.00 81.75      JS10
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ATOM  43625  CE1 HIS J  68     221.430 153.194  17.065  1.00 81.75      JS10
ATOM  43626  NE2 HIS J  68     220.638 152.518  17.878  1.00 81.75      JS10
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ATOM  43630  CA  ASN J  69     226.838 155.817  21.550  1.00101.42      JS10
ATOM  43631  CB  ASN J  69     228.284 155.532  21.138  1.00104.70      JS10
ATOM  43632  CG  ASN J  69     228.812 154.237  21.720  1.00104.70      JS10
ATOM  43633  OD1 ASN J  69     228.870 154.070  22.938  1.00104.70      JS10
ATOM  43634  ND2 ASN J  69     229.204 153.313  20.852  1.00104.70      JS10
ATOM  43635  C   ASN J  69     226.519 157.287  21.307  1.00101.42      JS10
ATOM  43636  O   ASN J  69     225.999 157.652  20.252  1.00101.42      JS10
ATOM  43637  N   ARG J  70     226.826 158.119  22.299  1.00 95.97      JS10
ATOM  43638  CA  ARG J  70     226.593 159.559  22.233  1.00 95.97      JS10
ATOM  43639  CB  ARG J  70     225.144 159.876  22.608  1.00139.56      JS10
ATOM  43640  CG  ARG J  70     224.119 159.369  21.606  1.00139.56      JS10
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ATOM  43643  CZ  ARG J  70     223.245 160.092  18.041  1.00139.56      JS10
ATOM  43644  NH1 ARG J  70     224.058 161.066  17.655  1.00139.56      JS10
ATOM  43645  NH2 ARG J  70     222.325 159.636  17.205  1.00139.56      JS10
ATOM  43646  C   ARG J  70     227.551 160.246  23.203  1.00 95.97      JS10
ATOM  43647  O   ARG J  70     227.808 159.730  24.294  1.00 95.97      JS10
ATOM  43648  N   LEU J  71     228.078 161.406  22.813  1.00129.02      JS10
ATOM  43649  CA  LEU J  71     229.026 162.119  23.663  1.00129.02      JS10
ATOM  43650  CB  LEU J  71     230.415 162.085  23.028  1.00 73.33      JS10
ATOM  43651  CG  LEU J  71     231.559 161.921  24.029  1.00 73.33      JS10
ATOM  43652  CD1 LEU J  71     231.693 163.164  24.863  1.00 73.33      JS10
ATOM  43653  CD2 LEU J  71     231.291 160.714  24.919  1.00 73.33      JS10
ATOM  43654  C   LEU J  71     228.651 163.563  23.969  1.00129.02      JS10
ATOM  43655  O   LEU J  71     228.029 164.244  23.157  1.00129.02      JS10
ATOM  43656  N   VAL J  72     229.053 164.021  25.152  1.00118.88      JS10
ATOM  43657  CA  VAL J  72     228.773 165.380  25.598  1.00118.88      JS10
ATOM  43658  CB  VAL J  72     227.883 165.369  26.861  1.00 91.55      JS10
ATOM  43659  CG1 VAL J  72     227.607 166.784  27.322  1.00 91.55      JS10
ATOM  43660  CG2 VAL J  72     226.573 164.655  26.562  1.00 91.55      JS10
ATOM  43661  C   VAL J  72     230.052 166.168  25.893  1.00118.88      JS10
ATOM  43662  O   VAL J  72     230.432 167.051  25.122  1.00118.88      JS10
ATOM  43663  N   ASP J  73     230.710 165.849  27.007  1.00100.59      JS10
ATOM  43664  CA  ASP J  73     231.945 166.534  27.408  1.00100.59      JS10
ATOM  43665  CB  ASP J  73     233.007 166.413  26.305  1.00 91.39      JS10
ATOM  43666  CG  ASP J  73     234.221 165.596  26.742  1.00 91.39      JS10
ATOM  43667  OD1 ASP J  73     234.039 164.533  27.382  1.00 91.39      JS10
ATOM  43668  OD2 ASP J  73     235.358 166.016  26.431  1.00 91.39      JS10
ATOM  43669  C   ASP J  73     231.708 168.013  27.740  1.00100.59      JS10
ATOM  43670  O   ASP J  73     231.581 168.855  26.846  1.00100.59      JS10
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ATOM  43672  CA  ILE J  74     231.427 169.672  29.523  1.00112.52      JS10
ATOM  43673  CB  ILE J  74     230.297 169.720  30.556  1.00105.49      JS10
ATOM  43674  CG2 ILE J  74     230.073 171.153  30.999  1.00105.49      JS10
ATOM  43675  CG1 ILE J  74     229.016 169.138  29.966  1.00105.49      JS10
ATOM  43676  CD1 ILE J  74     227.905 169.000  30.977  1.00105.49      JS10
ATOM  43677  C   ILE J  74     232.648 170.263  30.203  1.00112.52      JS10
ATOM  43678  O   ILE J  74     233.111 169.745  31.220  1.00112.52      JS10
ATOM  43679  N   ILE J  75     233.156 171.354  29.642  1.00201.26      JS10
ATOM  43680  CA  ILE J  75     234.309 172.041  30.204  1.00201.26      JS10
ATOM  43681  CB  ILE J  75     235.250 172.562  29.096  1.00201.26      JS10
ATOM  43682  CG2 ILE J  75     236.436 173.290  29.714  1.00201.26      JS10
ATOM  43683  CG1 ILE J  75     235.741 171.390  28.243  1.00201.26      JS10
ATOM  43684  CD1 ILE J  75     236.674 171.789  27.117  1.00201.26      JS10
ATOM  43685  C   ILE J  75     233.766 173.217  31.006  1.00201.26      JS10
ATOM  43686  O   ILE J  75     232.605 173.592  30.846  1.00201.26      JS10
ATOM  43687  N   ASN J  76     234.596 173.790  31.871  1.00 91.13      JS10
ATOM  43688  CA  ASN J  76     234.172 174.918  32.692  1.00 91.13      JS10
ATOM  43689  CB  ASN J  76     233.790 176.097  31.799  1.00201.26      JS10
ATOM  43690  CG  ASN J  76     234.866 176.423  30.783  1.00201.26      JS10
ATOM  43691  OD1 ASN J  76     236.004 176.729  31.143  1.00201.26      JS10
ATOM  43692  ND2 ASN J  76     234.514 176.353  29.503  1.00201.26      JS10
ATOM  43693  C   ASN J  76     232.985 174.511  33.565  1.00 91.13      JS10
ATOM  43694  O   ASN J  76     231.881 175.044  33.427  1.00 91.13      JS10
ATOM  43695  N   PRO J  77     233.205 173.542  34.470  1.00114.29      JS10
ATOM  43696  CD  PRO J  77     234.435 172.733  34.577  1.00132.90      JS10
ATOM  43697  CA  PRO J  77     232.180 173.038  35.385  1.00114.29      JS10
ATOM  43698  CB  PRO J  77     232.686 171.640  35.712  1.00132.90      JS10
ATOM  43699  CG  PRO J  77     234.160 171.861  35.792  1.00132.90      JS10
ATOM  43700  C   PRO J  77     232.044 173.909  36.637  1.00114.29      JS10
ATOM  43701  O   PRO J  77     233.042 174.345  37.222  1.00114.29      JS10
ATOM  43702  N   ASN J  78     230.805 174.153  37.047  1.00 88.66      JS10
ATOM  43703  CA  ASN J  78     230.545 174.966  38.222  1.00 88.66      JS10
ATOM  43704  CB  ASN J  78     229.758 176.210  37.819  1.00201.26      JS10
ATOM  43705  CG  ASN J  78     230.393 176.939  36.658  1.00201.26      JS10
ATOM  43706  OD1 ASN J  78     231.548 177.357  36.731  1.00201.26      JS10
ATOM  43707  ND2 ASN J  78     229.645 177.091  35.573  1.00201.26      JS10
ATOM  43708  C   ASN J  78     229.768 174.181  39.274  1.00 88.66      JS10
ATOM  43709  O   ASN J  78     229.658 172.959  39.207  1.00 88.66      JS10
ATOM  43710  N   ARG J  79     229.238 174.893  40.257  1.00128.67      JS10
ATOM  43711  CA  ARG J  79     228.464 174.258  41.306  1.00128.67      JS10
ATOM  43712  CB  ARG J  79     228.622 175.044  42.609  1.00156.22      JS10
ATOM  43713  CG  ARG J  79     230.033 174.978  43.201  1.00156.22      JS10
ATOM  43714  CD  ARG J  79     230.261 173.699  44.012  1.00156.22      JS10
ATOM  43715  NE  ARG J  79     231.240 172.783  43.425  1.00156.22      JS10
ATOM  43716  CZ  ARG J  79     230.980 171.911  42.454  1.00156.22      JS10
ATOM  43717  NH1 ARG J  79     229.764 171.817  41.938  1.00156.22      JS10
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ATOM  43718  NH2 ARG J  79     231.943 171.121  42.001  1.00156.22       JS10
ATOM  43719  C   ARG J  79     227.007 174.215  40.851  1.00128.67       JS10
ATOM  43720  O   ARG J  79     226.266 173.288  41.186  1.00128.67       JS10
ATOM  43721  N   LYS J  80     226.613 175.223  40.074  1.00185.26       JS10
ATOM  43722  CA  LYS J  80     225.260 175.310  39.530  1.00185.26       JS10
ATOM  43723  CB  LYS J  80     224.977 176.730  39.028  1.00194.15       JS10
ATOM  43724  CG  LYS J  80     223.683 176.877  38.230  1.00194.15       JS10
ATOM  43725  CD  LYS J  80     222.439 176.734  39.097  1.00194.15       JS10
ATOM  43726  CE  LYS J  80     222.269 177.922  40.031  1.00194.15       JS10
ATOM  43727  NZ  LYS J  80     220.988 177.857  40.790  1.00194.15       JS10
ATOM  43728  C   LYS J  80     225.176 174.325  38.370  1.00185.26       JS10
ATOM  43729  O   LYS J  80     224.119 173.755  38.090  1.00185.26       JS10
ATOM  43730  N   THR J  81     226.305 174.138  37.694  1.00148.40       JS10
ATOM  43731  CA  THR J  81     226.381 173.209  36.577  1.00148.40       JS10
ATOM  43732  CB  THR J  81     227.782 173.203  35.944  1.00140.15       JS10
ATOM  43733  OG1 THR J  81     228.225 174.551  35.749  1.00140.15       JS10
ATOM  43734  CG2 THR J  81     227.752 172.492  34.603  1.00140.15       JS10
ATOM  43735  C   THR J  81     226.098 171.830  37.147  1.00148.40       JS10
ATOM  43736  O   THR J  81     225.018 171.273  36.945  1.00148.40       JS10
ATOM  43737  N   ILE J  82     227.075 171.301  37.879  1.00 97.06       JS10
ATOM  43738  CA  ILE J  82     226.969 169.989  38.511  1.00 97.06       JS10
ATOM  43739  CB  ILE J  82     228.259 169.658  39.302  1.00 84.37       JS10
ATOM  43740  CG2 ILE J  82     228.162 168.273  39.926  1.00 84.37       JS10
ATOM  43741  CG1 ILE J  82     229.466 169.718  38.361  1.00 84.37       JS10
ATOM  43742  CD1 ILE J  82     230.803 169.417  39.029  1.00 84.37       JS10
ATOM  43743  C   ILE J  82     225.762 169.928  39.452  1.00 97.06       JS10
ATOM  43744  O   ILE J  82     225.568 168.946  40.174  1.00 97.06       JS10
ATOM  43745  N   GLU J  83     224.953 170.983  39.438  1.00139.52       JS10
ATOM  43746  CA  GLU J  83     223.761 171.048  40.274  1.00139.52       JS10
ATOM  43747  CB  GLU J  83     223.510 172.490  40.727  1.00201.26       JS10
ATOM  43748  CG  GLU J  83     222.345 172.652  41.694  1.00201.26       JS10
ATOM  43749  CD  GLU J  83     222.249 174.055  42.273  1.00201.26       JS10
ATOM  43750  OE1 GLU J  83     223.196 174.479  42.971  1.00201.26       JS10
ATOM  43751  OE2 GLU J  83     221.226 174.732  42.030  1.00201.26       JS10
ATOM  43752  C   GLU J  83     222.561 170.523  39.487  1.00139.52       JS10
ATOM  43753  O   GLU J  83     221.762 169.739  40.004  1.00139.52       JS10
ATOM  43754  N   GLN J  84     222.439 170.957  38.235  1.00153.92       JS10
ATOM  43755  CA  GLN J  84     221.345 170.506  37.385  1.00153.92       JS10
ATOM  43756  CB  GLN J  84     221.204 171.414  36.163  1.00165.32       JS10
ATOM  43757  CG  GLN J  84     220.846 172.849  36.486  1.00165.32       JS10
ATOM  43758  CD  GLN J  84     220.526 173.657  35.242  1.00165.32       JS10
ATOM  43759  OE1 GLN J  84     219.573 173.356  34.520  1.00165.32       JS10
ATOM  43760  NE2 GLN J  84     221.324 174.687  34.982  1.00165.32       JS10
ATOM  43761  C   GLN J  84     221.627 169.078  36.928  1.00153.92       JS10
ATOM  43762  O   GLN J  84     220.746 168.216  36.957  1.00153.92       JS10
ATOM  43763  N   LEU J  85     222.867 168.836  36.511  1.00200.85       JS10
ATOM  43764  CA  LEU J  85     223.288 167.516  36.050  1.00200.85       JS10
ATOM  43765  CB  LEU J  85     224.576 167.625  35.228  1.00104.11       JS10
ATOM  43766  CG  LEU J  85     224.685 168.779  34.225  1.00104.11       JS10
ATOM  43767  CD1 LEU J  85     226.015 168.668  33.491  1.00104.11       JS10
ATOM  43768  CD2 LEU J  85     223.512 168.757  33.251  1.00104.11       JS10
ATOM  43769  C   LEU J  85     223.541 166.620  37.257  1.00200.85       JS10
ATOM  43770  O   LEU J  85     224.389 165.726  37.215  1.00200.85       JS10
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ATOM  43772  CA  MET J  86     222.951 166.095  39.555  1.00113.37       JS10
ATOM  43773  CB  MET J  86     222.981 167.027  40.768  1.00201.26       JS10
ATOM  43774  CG  MET J  86     223.596 166.404  42.010  1.00201.26       JS10
ATOM  43775  SD  MET J  86     225.345 166.010  41.778  1.00201.26       JS10
ATOM  43776  CE  MET J  86     225.242 164.311  41.200  1.00201.26       JS10
ATOM  43777  C   MET J  86     221.807 165.101  39.696  1.00113.37       JS10
ATOM  43778  O   MET J  86     222.016 163.962  40.110  1.00113.37       JS10
ATOM  43779  N   THR J  87     220.600 165.538  39.350  1.00198.94       JS10
ATOM  43780  CA  THR J  87     219.421 164.683  39.427  1.00198.94       JS10
ATOM  43781  CB  THR J  87     218.974 164.465  40.888  1.00173.54       JS10
ATOM  43782  OG1 THR J  87     220.062 163.925  41.648  1.00173.54       JS10
ATOM  43783  CG2 THR J  87     217.799 163.495  40.946  1.00173.54       JS10
ATOM  43784  C   THR J  87     218.257 165.294  38.655  1.00198.94       JS10
ATOM  43785  O   THR J  87     217.442 166.025  39.220  1.00198.94       JS10
ATOM  43786  N   LEU J  88     218.185 164.990  37.361  1.00201.26       JS10
ATOM  43787  CA  LEU J  88     217.121 165.505  36.505  1.00201.26       JS10
ATOM  43788  CB  LEU J  88     217.501 166.890  35.964  1.00192.00       JS10
ATOM  43789  CG  LEU J  88     217.663 168.035  36.974  1.00192.00       JS10
ATOM  43790  CD1 LEU J  88     218.107 169.300  36.253  1.00192.00       JS10
ATOM  43791  CD2 LEU J  88     216.348 168.275  37.699  1.00192.00       JS10
ATOM  43792  C   LEU J  88     216.830 164.556  35.339  1.00201.26       JS10
ATOM  43793  O   LEU J  88     216.151 164.927  34.379  1.00201.26       JS10
ATOM  43794  N   ASP J  89     217.340 163.330  35.432  1.00201.18       JS10
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ATOM  43795  CA  ASP J  89     217.141 162.327  34.387  1.00201.18       JS10
ATOM  43796  CB  ASP J  89     218.123 161.164  34.578  1.00164.77       JS10
ATOM  43797  CG  ASP J  89     217.806 159.975  33.685  1.00164.77       JS10
ATOM  43798  OD1 ASP J  89     216.894 159.195  34.031  1.00164.77       JS10
ATOM  43799  OD2 ASP J  89     218.461 159.826  32.633  1.00164.77       JS10
ATOM  43800  C   ASP J  89     215.715 161.795  34.350  1.00201.18       JS10
ATOM  43801  O   ASP J  89     214.929 162.025  35.271  1.00201.18       JS10
ATOM  43802  N   LEU J  90     215.391 161.082  33.276  1.00201.26       JS10
ATOM  43803  CA  LEU J  90     214.062 160.512  33.099  1.00201.26       JS10
ATOM  43804  CB  LEU J  90     213.164 161.521  32.372  1.00201.26       JS10
ATOM  43805  CG  LEU J  90     212.947 162.874  33.063  1.00201.26       JS10
ATOM  43806  CD1 LEU J  90     212.213 163.824  32.131  1.00201.26       JS10
ATOM  43807  CD2 LEU J  90     212.163 162.673  34.351  1.00201.26       JS10
ATOM  43808  C   LEU J  90     214.046 159.166  32.353  1.00201.26       JS10
ATOM  43809  O   LEU J  90     213.220 158.303  32.652  1.00201.26       JS10
ATOM  43810  N   PRO J  91     214.956 158.967  31.376  1.00 69.31       JS10
ATOM  43811  CD  PRO J  91     215.906 159.944  30.812  1.00146.83       JS10
ATOM  43812  CA  PRO J  91     214.997 157.706  30.617  1.00 69.31       JS10
ATOM  43813  CB  PRO J  91     215.938 158.039  29.460  1.00146.83       JS10
ATOM  43814  CG  PRO J  91     216.860 159.062  30.057  1.00146.83       JS10
ATOM  43815  C   PRO J  91     215.424 156.437  31.381  1.00 69.31       JS10
ATOM  43816  O   PRO J  91     216.258 156.494  32.286  1.00 69.31       JS10
ATOM  43817  N   THR J  92     214.850 155.294  30.992  1.00 85.62       JS10
ATOM  43818  CA  THR J  92     215.148 154.003  31.623  1.00 85.62       JS10
ATOM  43819  CB  THR J  92     213.861 153.217  31.927  1.00122.08       JS10
ATOM  43820  OG1 THR J  92     213.022 153.990  32.792  1.00122.08       JS10
ATOM  43821  CG2 THR J  92     214.193 151.886  32.599  1.00122.08       JS10
ATOM  43822  C   THR J  92     216.028 153.106  30.758  1.00 85.62       JS10
ATOM  43823  O   THR J  92     216.832 152.321  31.273  1.00 85.62       JS10
ATOM  43824  N   GLY J  93     215.860 153.218  29.444  1.00140.56       JS10
ATOM  43825  CA  GLY J  93     216.641 152.413  28.520  1.00140.56       JS10
ATOM  43826  C   GLY J  93     218.071 152.897  28.415  1.00140.56       JS10
ATOM  43827  O   GLY J  93     218.961 152.147  28.014  1.00140.56       JS10
ATOM  43828  N   VAL J  94     218.283 154.159  28.775  1.00 94.48       JS10
ATOM  43829  CA  VAL J  94     219.610 154.756  28.736  1.00 94.48       JS10
ATOM  43830  CB  VAL J  94     219.554 156.299  28.781  1.00 52.52       JS10
ATOM  43831  CG1 VAL J  94     220.965 156.867  28.609  1.00 52.52       JS10
ATOM  43832  CG2 VAL J  94     218.610 156.832  27.707  1.00 52.52       JS10
ATOM  43833  C   VAL J  94     220.412 154.297  29.943  1.00 94.48       JS10
ATOM  43834  O   VAL J  94     219.875 153.712  30.882  1.00 94.48       JS10
ATOM  43835  N   GLU J  95     221.706 154.575  29.906  1.00 81.75       JS10
ATOM  43836  CA  GLU J  95     222.603 154.214  30.987  1.00 81.75       JS10
ATOM  43837  CB  GLU J  95     222.947 152.723  30.912  1.00111.57       JS10
ATOM  43838  CG  GLU J  95     223.913 152.241  31.979  1.00111.57       JS10
ATOM  43839  CD  GLU J  95     225.343 152.175  31.477  1.00111.57       JS10
ATOM  43840  OE1 GLU J  95     225.828 153.183  30.923  1.00111.57       JS10
ATOM  43841  OE2 GLU J  95     225.985 151.112  31.639  1.00111.57       JS10
ATOM  43842  C   GLU J  95     223.848 155.077  30.837  1.00 81.75       JS10
ATOM  43843  O   GLU J  95     224.523 155.048  29.803  1.00 81.75       JS10
ATOM  43844  N   ILE J  96     224.143 155.854  31.874  1.00193.28       JS10
ATOM  43845  CA  ILE J  96     225.287 156.752  31.845  1.00193.28       JS10
ATOM  43846  CB  ILE J  96     224.960 158.116  32.478  1.00 83.75       JS10
ATOM  43847  CG2 ILE J  96     226.013 159.143  32.066  1.00 83.75       JS10
ATOM  43848  CG1 ILE J  96     223.573 158.579  32.036  1.00 83.75       JS10
ATOM  43849  CD1 ILE J  96     223.143 159.904  32.641  1.00 83.75       JS10
ATOM  43850  C   ILE J  96     226.527 156.240  32.550  1.00193.28       JS10
ATOM  43851  O   ILE J  96     226.474 155.361  33.414  1.00193.28       JS10
ATOM  43852  N   GLU J  97     227.645 156.832  32.158  1.00105.57       JS10
ATOM  43853  CA  GLU J  97     228.947 156.531  32.712  1.00105.57       JS10
ATOM  43854  CB  GLU J  97     229.608 155.380  31.951  1.00189.99       JS10
ATOM  43855  CG  GLU J  97     230.780 154.745  32.689  1.00189.99       JS10
ATOM  43856  CD  GLU J  97     231.966 155.677  32.827  1.00189.99       JS10
ATOM  43857  OE1 GLU J  97     232.615 155.969  31.800  1.00189.99       JS10
ATOM  43858  OE2 GLU J  97     232.246 156.120  33.962  1.00189.99       JS10
ATOM  43859  C   GLU J  97     229.699 157.828  32.478  1.00105.57       JS10
ATOM  43860  O   GLU J  97     229.766 158.318  31.346  1.00105.57       JS10
ATOM  43861  N   ILE J  98     230.227 158.403  33.552  1.00188.61       JS10
ATOM  43862  CA  ILE J  98     230.963 159.654  33.452  1.00188.61       JS10
ATOM  43863  CB  ILE J  98     230.052 160.872  33.757  1.00114.77       JS10
ATOM  43864  CG2 ILE J  98     230.854 162.161  33.691  1.00114.77       JS10
ATOM  43865  CG1 ILE J  98     228.914 160.945  32.740  1.00114.77       JS10
ATOM  43866  CD1 ILE J  98     227.945 162.074  33.006  1.00114.77       JS10
ATOM  43867  C   ILE J  98     232.152 159.686  34.400  1.00188.61       JS10
ATOM  43868  O   ILE J  98     232.161 159.022  35.439  1.00188.61       JS10
ATOM  43869  N   LYS J  99     233.157 160.462  34.011  1.00132.43       JS10
ATOM  43870  CA  LYS J  99     234.375 160.645  34.783  1.00132.43       JS10
ATOM  43871  CB  LYS J  99     235.237 159.381  34.741  1.00153.58       JS10
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ATOM  43872  CG  LYS J  99     236.384 159.374  35.746  1.00153.58      JS10
ATOM  43873  CD  LYS J  99     237.349 158.221  35.490  1.00153.58      JS10
ATOM  43874  CE  LYS J  99     236.655 156.871  35.573  1.00153.58      JS10
ATOM  43875  NZ  LYS J  99     237.574 155.760  35.198  1.00153.58      JS10
ATOM  43876  C   LYS J  99     235.096 161.798  34.100  1.00132.43      JS10
ATOM  43877  O   LYS J  99     234.923 162.012  32.899  1.00132.43      JS10
ATOM  43878  N   ALA J 100     235.888 162.547  34.859  1.00163.92      JS10
ATOM  43879  CA  ALA J 100     236.619 163.676  34.297  1.00163.92      JS10
ATOM  43880  CB  ALA J 100     236.427 164.910  35.174  1.00116.83      JS10
ATOM  43881  C   ALA J 100     238.104 163.355  34.149  1.00163.92      JS10
ATOM  43882  O   ALA J 100     238.509 162.239  34.540  1.00163.92      JS10
ATOM  43883  OXT ALA J 100     238.846 164.222  33.640  1.00116.83      JS10
TER   43883       ALA J 100                                             JS10
ATOM  43884  CB  LYS K  11     226.767 115.114 -81.507  1.00186.07      KS11
ATOM  43885  CG  LYS K  11     228.226 114.902 -81.167  1.00186.07      KS11
ATOM  43886  CD  LYS K  11     228.636 113.466 -81.450  1.00186.07      KS11
ATOM  43887  CE  LYS K  11     230.086 113.223 -81.072  1.00186.07      KS11
ATOM  43888  NZ  LYS K  11     230.480 111.804 -81.280  1.00186.07      KS11
ATOM  43889  C   LYS K  11     224.853 116.649 -81.875  1.00147.41      KS11
ATOM  43890  O   LYS K  11     224.165 115.639 -82.037  1.00147.41      KS11
ATOM  43891  N   LYS K  11     226.248 116.856 -79.814  1.00147.41      KS11
ATOM  43892  CA  LYS K  11     226.248 116.535 -81.271  1.00147.41      KS11
ATOM  43893  N   ARG K  12     224.440 117.868 -82.216  1.00106.31      KS11
ATOM  43894  CA  ARG K  12     223.121 118.073 -82.807  1.00106.31      KS11
ATOM  43895  CB  ARG K  12     222.054 117.413 -81.929  1.00151.97      KS11
ATOM  43896  CG  ARG K  12     220.708 117.204 -82.594  1.00151.97      KS11
ATOM  43897  CD  ARG K  12     219.845 116.304 -81.726  1.00151.97      KS11
ATOM  43898  NE  ARG K  12     218.506 116.109 -82.271  1.00151.97      KS11
ATOM  43899  CZ  ARG K  12     217.586 115.318 -81.725  1.00151.97      KS11
ATOM  43900  NH1 ARG K  12     217.862 114.643 -80.614  1.00151.97      KS11
ATOM  43901  NH2 ARG K  12     216.390 115.202 -82.288  1.00151.97      KS11
ATOM  43902  C   ARG K  12     222.805 119.553 -82.985  1.00106.31      KS11
ATOM  43903  O   ARG K  12     222.242 119.953 -84.002  1.00106.31      KS11
ATOM  43904  N   GLN K  13     223.169 120.362 -81.995  1.00103.98      KS11
ATOM  43905  CA  GLN K  13     222.922 121.800 -82.045  1.00103.98      KS11
ATOM  43906  CB  GLN K  13     223.715 122.432 -83.192  1.00201.26      KS11
ATOM  43907  CG  GLN K  13     225.209 122.160 -83.122  1.00201.26      KS11
ATOM  43908  CD  GLN K  13     225.824 122.603 -81.806  1.00201.26      KS11
ATOM  43909  OE1 GLN K  13     225.843 123.792 -81.483  1.00201.26      KS11
ATOM  43910  NE2 GLN K  13     226.328 121.644 -81.036  1.00201.26      KS11
ATOM  43911  C   GLN K  13     221.435 122.106 -82.209  1.00103.98      KS11
ATOM  43912  O   GLN K  13     220.888 122.022 -83.312  1.00103.98      KS11
ATOM  43913  N   VAL K  14     220.787 122.476 -81.106  1.00 68.03      KS11
ATOM  43914  CA  VAL K  14     219.363 122.774 -81.135  1.00 68.03      KS11
ATOM  43915  CB  VAL K  14     218.608 121.852 -80.181  1.00 51.00      KS11
ATOM  43916  CG1 VAL K  14     217.121 121.973 -80.434  1.00 51.00      KS11
ATOM  43917  CG2 VAL K  14     219.063 120.421 -80.377  1.00 51.00      KS11
ATOM  43918  C   VAL K  14     218.990 124.225 -80.817  1.00 68.03      KS11
ATOM  43919  O   VAL K  14     218.122 124.798 -81.473  1.00 68.03      KS11
ATOM  43920  N   ALA K  15     219.635 124.817 -79.819  1.00112.33      KS11
ATOM  43921  CA  ALA K  15     219.339 126.200 -79.451  1.00112.33      KS11
ATOM  43922  CB  ALA K  15     219.489 127.104 -80.655  1.00 73.55      KS11
ATOM  43923  C   ALA K  15     217.925 126.302 -78.912  1.00112.33      KS11
ATOM  43924  O   ALA K  15     217.719 126.313 -77.698  1.00112.33      KS11
ATOM  43925  N   SER K  16     216.955 126.392 -79.822  1.00 65.64      KS11
ATOM  43926  CA  SER K  16     215.541 126.474 -79.448  1.00 65.64      KS11
ATOM  43927  CB  SER K  16     214.699 126.916 -80.648  1.00152.38      KS11
ATOM  43928  OG  SER K  16     214.819 125.997 -81.720  1.00152.38      KS11
ATOM  43929  C   SER K  16     215.087 125.096 -78.975  1.00 65.64      KS11
ATOM  43930  O   SER K  16     214.917 124.176 -79.777  1.00 65.64      KS11
ATOM  43931  N   GLY K  17     214.898 124.960 -77.668  1.00 81.92      KS11
ATOM  43932  CA  GLY K  17     214.494 123.682 -77.121  1.00 81.92      KS11
ATOM  43933  C   GLY K  17     213.228 123.686 -76.289  1.00 81.92      KS11
ATOM  43934  O   GLY K  17     212.235 124.314 -76.648  1.00 81.92      KS11
ATOM  43935  N   ARG K  18     213.284 122.990 -75.159  1.00 57.89      KS11
ATOM  43936  CA  ARG K  18     212.148 122.844 -74.263  1.00 57.89      KS11
ATOM  43937  CB  ARG K  18     211.079 122.030 -74.981  1.00 58.07      KS11
ATOM  43938  CG  ARG K  18     210.009 121.493 -74.093  1.00 58.07      KS11
ATOM  43939  CD  ARG K  18     208.687 121.427 -74.838  1.00 58.07      KS11
ATOM  43940  NE  ARG K  18     208.674 120.485 -75.953  1.00 58.07      KS11
ATOM  43941  CZ  ARG K  18     207.620 120.298 -76.741  1.00 58.07      KS11
ATOM  43942  NH1 ARG K  18     206.507 120.989 -76.537  1.00 58.07      KS11
ATOM  43943  NH2 ARG K  18     207.668 119.418 -77.725  1.00 58.07      KS11
ATOM  43944  C   ARG K  18     212.602 122.128 -72.990  1.00 57.89      KS11
ATOM  43945  O   ARG K  18     213.346 121.149 -73.063  1.00 57.89      KS11
ATOM  43946  N   ALA K  19     212.160 122.605 -71.827  1.00 38.75      KS11
ATOM  43947  CA  ALA K  19     212.571 121.995 -70.562  1.00 38.75      KS11
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ATOM  43948  CB  ALA K  19     213.374 122.967 -69.763  1.00 16.94       KS11
ATOM  43949  C   ALA K  19     211.415 121.513 -69.723  1.00 38.75       KS11
ATOM  43950  O   ALA K  19     210.481 122.262 -69.465  1.00 38.75       KS11
ATOM  43951  N   TYR K  20     211.497 120.262 -69.284  1.00 36.13       KS11
ATOM  43952  CA  TYR K  20     210.463 119.657 -68.461  1.00 36.13       KS11
ATOM  43953  CB  TYR K  20     210.055 118.299 -69.016  1.00 48.75       KS11
ATOM  43954  CG  TYR K  20     209.184 118.334 -70.245  1.00 48.75       KS11
ATOM  43955  CD1 TYR K  20     209.730 118.479 -71.511  1.00 48.75       KS11
ATOM  43956  CE1 TYR K  20     208.932 118.422 -72.650  1.00 48.75       KS11
ATOM  43957  CD2 TYR K  20     207.814 118.147 -70.146  1.00 48.75       KS11
ATOM  43958  CE2 TYR K  20     207.009 118.092 -71.274  1.00 48.75       KS11
ATOM  43959  CZ  TYR K  20     207.574 118.225 -72.519  1.00 48.75       KS11
ATOM  43960  OH  TYR K  20     206.775 118.135 -73.631  1.00 48.75       KS11
ATOM  43961  C   TYR K  20     210.911 119.464 -67.015  1.00 36.13       KS11
ATOM  43962  O   TYR K  20     211.877 118.756 -66.725  1.00 36.13       KS11
ATOM  43963  N   ILE K  21     210.190 120.093 -66.104  1.00 30.53       KS11
ATOM  43964  CA  ILE K  21     210.505 119.969 -64.703  1.00 30.53       KS11
ATOM  43965  CB  ILE K  21     210.497 121.317 -64.020  1.00 30.15       KS11
ATOM  43966  CG2 ILE K  21     210.986 121.160 -62.603  1.00 30.15       KS11
ATOM  43967  CG1 ILE K  21     211.338 122.303 -64.832  1.00 30.15       KS11
ATOM  43968  CD1 ILE K  21     211.562 123.645 -64.155  1.00 30.15       KS11
ATOM  43969  C   ILE K  21     209.413 119.136 -64.082  1.00 30.53       KS11
ATOM  43970  O   ILE K  21     208.259 119.552 -64.047  1.00 30.53       KS11
ATOM  43971  N   HIS K  22     209.776 117.950 -63.615  1.00 30.29       KS11
ATOM  43972  CA  HIS K  22     208.835 117.043 -62.958  1.00 30.29       KS11
ATOM  43973  CB  HIS K  22     209.001 115.622 -63.473  1.00 57.29       KS11
ATOM  43974  CG  HIS K  22     208.441 114.594 -62.550  1.00 57.29       KS11
ATOM  43975  CD2 HIS K  22     209.030 113.850 -61.586  1.00 57.29       KS11
ATOM  43976  ND1 HIS K  22     207.098 114.295 -62.498  1.00 57.29       KS11
ATOM  43977  CE1 HIS K  22     206.883 113.411 -61.541  1.00 57.29       KS11
ATOM  43978  NE2 HIS K  22     208.040 113.125 -60.972  1.00 57.29       KS11
ATOM  43979  C   HIS K  22     209.171 117.056 -61.481  1.00 30.29       KS11
ATOM  43980  O   HIS K  22     210.136 116.420 -61.059  1.00 30.29       KS11
ATOM  43981  N   ALA K  23     208.385 117.780 -60.698  1.00 42.02       KS11
ATOM  43982  CA  ALA K  23     208.640 117.880 -59.271  1.00 42.02       KS11
ATOM  43983  CB  ALA K  23     208.424 119.310 -58.817  1.00 44.88       KS11
ATOM  43984  C   ALA K  23     207.777 116.932 -58.447  1.00 42.02       KS11
ATOM  43985  O   ALA K  23     206.697 116.527 -58.876  1.00 42.02       KS11
ATOM  43986  N   SER K  24     208.262 116.569 -57.265  1.00 30.33       KS11
ATOM  43987  CA  SER K  24     207.507 115.685 -56.388  1.00 30.33       KS11
ATOM  43988  CB  SER K  24     207.674 114.222 -56.800  1.00 33.36       KS11
ATOM  43989  OG  SER K  24     208.560 113.537 -55.923  1.00 33.36       KS11
ATOM  43990  C   SER K  24     208.024 115.866 -54.981  1.00 30.33       KS11
ATOM  43991  O   SER K  24     209.146 116.326 -54.781  1.00 30.33       KS11
ATOM  43992  N   TYR K  25     207.204 115.511 -54.002  1.00 82.18       KS11
ATOM  43993  CA  TYR K  25     207.622 115.635 -52.620  1.00 82.18       KS11
ATOM  43994  CB  TYR K  25     206.423 115.512 -51.674  1.00124.40       KS11
ATOM  43995  CG  TYR K  25     205.512 116.719 -51.695  1.00124.40       KS11
ATOM  43996  CD1 TYR K  25     204.500 116.842 -52.648  1.00124.40       KS11
ATOM  43997  CE1 TYR K  25     203.697 117.985 -52.702  1.00124.40       KS11
ATOM  43998  CD2 TYR K  25     205.700 117.768 -50.793  1.00124.40       KS11
ATOM  43999  CE2 TYR K  25     204.907 118.914 -50.839  1.00124.40       KS11
ATOM  44000  CZ  TYR K  25     203.909 119.017 -51.794  1.00124.40       KS11
ATOM  44001  OH  TYR K  25     203.135 120.153 -51.841  1.00124.40       KS11
ATOM  44002  C   TYR K  25     208.627 114.539 -52.335  1.00 82.18       KS11
ATOM  44003  O   TYR K  25     208.764 114.089 -51.200  1.00 82.18       KS11
ATOM  44004  N   ASN K  26     209.338 114.110 -53.370  1.00 33.57       KS11
ATOM  44005  CA  ASN K  26     210.319 113.052 -53.200  1.00 33.57       KS11
ATOM  44006  CB  ASN K  26     209.706 111.720 -53.564  1.00 27.55       KS11
ATOM  44007  CG  ASN K  26     209.425 110.902 -52.362  1.00 27.55       KS11
ATOM  44008  OD1 ASN K  26     210.041 111.105 -51.320  1.00 27.55       KS11
ATOM  44009  ND2 ASN K  26     208.504 109.957 -52.483  1.00 27.55       KS11
ATOM  44010  C   ASN K  26     211.623 113.203 -53.954  1.00 33.57       KS11
ATOM  44011  O   ASN K  26     212.625 112.537 -53.631  1.00 33.57       KS11
ATOM  44012  N   ASN K  27     211.602 114.073 -54.956  1.00 23.42       KS11
ATOM  44013  CA  ASN K  27     212.764 114.322 -55.782  1.00 23.42       KS11
ATOM  44014  CB  ASN K  27     213.388 112.989 -56.188  1.00 27.70       KS11
ATOM  44015  CG  ASN K  27     214.282 113.102 -57.388  1.00 27.70       KS11
ATOM  44016  OD1 ASN K  27     215.082 114.028 -57.511  1.00 27.70       KS11
ATOM  44017  ND2 ASN K  27     214.164 112.138 -58.282  1.00 27.70       KS11
ATOM  44018  C   ASN K  27     212.337 115.106 -57.010  1.00 23.42       KS11
ATOM  44019  O   ASN K  27     211.250 114.887 -57.547  1.00 23.42       KS11
ATOM  44020  N   THR K  28     213.179 116.044 -57.433  1.00 31.95       KS11
ATOM  44021  CA  THR K  28     212.877 116.842 -58.610  1.00 31.95       KS11
ATOM  44022  CB  THR K  28     213.298 118.305 -58.438  1.00 89.75       KS11
ATOM  44023  OG1 THR K  28     212.631 118.865 -57.301  1.00 89.75       KS11
ATOM  44024  CG2 THR K  28     212.928 119.105 -59.674  1.00 89.75       KS11
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ATOM  44025  C   THR K  28     213.688 116.232 -59.720  1.00 31.95      KS11
ATOM  44026  O   THR K  28     214.679 115.555 -59.464  1.00 31.95      KS11
ATOM  44027  N   ILE K  29     213.267 116.443 -60.956  1.00 34.06      KS11
ATOM  44028  CA  ILE K  29     214.005 115.886 -62.075  1.00 34.06      KS11
ATOM  44029  CB  ILE K  29     213.775 114.362 -62.156  1.00 24.71      KS11
ATOM  44030  CG2 ILE K  29     212.499 113.995 -61.442  1.00 24.71      KS11
ATOM  44031  CG1 ILE K  29     213.706 113.897 -63.595  1.00 24.71      KS11
ATOM  44032  CD1 ILE K  29     213.153 112.514 -63.691  1.00 24.71      KS11
ATOM  44033  C   ILE K  29     213.606 116.595 -63.356  1.00 34.06      KS11
ATOM  44034  O   ILE K  29     212.467 116.512 -63.801  1.00 34.06      KS11
ATOM  44035  N   VAL K  30     214.565 117.327 -63.915  1.00 21.34      KS11
ATOM  44036  CA  VAL K  30     214.379 118.096 -65.133  1.00 21.34      KS11
ATOM  44037  CB  VAL K  30     215.164 119.406 -65.055  1.00 38.03      KS11
ATOM  44038  CG1 VAL K  30     214.244 120.515 -64.633  1.00 38.03      KS11
ATOM  44039  CG2 VAL K  30     216.289 119.283 -64.031  1.00 38.03      KS11
ATOM  44040  C   VAL K  30     214.818 117.303 -66.354  1.00 21.34      KS11
ATOM  44041  O   VAL K  30     215.573 116.341 -66.244  1.00 21.34      KS11
ATOM  44042  N   THR K  31     214.348 117.712 -67.523  1.00 23.05      KS11
ATOM  44043  CA  THR K  31     214.659 117.004 -68.752  1.00 23.05      KS11
ATOM  44044  CB  THR K  31     213.625 115.897 -68.996  1.00 24.03      KS11
ATOM  44045  OG1 THR K  31     213.921 114.766 -68.169  1.00 24.03      KS11
ATOM  44046  CG2 THR K  31     213.615 115.479 -70.450  1.00 24.03      KS11
ATOM  44047  C   THR K  31     214.588 117.955 -69.921  1.00 23.05      KS11
ATOM  44048  O   THR K  31     213.495 118.381 -70.271  1.00 23.05      KS11
ATOM  44049  N   ILE K  32     215.720 118.289 -70.537  1.00 37.97      KS11
ATOM  44050  CA  ILE K  32     215.686 119.204 -71.678  1.00 37.97      KS11
ATOM  44051  CB  ILE K  32     217.025 119.899 -71.892  1.00 41.94      KS11
ATOM  44052  CG2 ILE K  32     216.813 121.140 -72.748  1.00 41.94      KS11
ATOM  44053  CG1 ILE K  32     217.634 120.294 -70.545  1.00 41.94      KS11
ATOM  44054  CD1 ILE K  32     216.828 121.301 -69.761  1.00 41.94      KS11
ATOM  44055  C   ILE K  32     215.327 118.433 -72.946  1.00 37.97      KS11
ATOM  44056  O   ILE K  32     215.723 117.282 -73.109  1.00 37.97      KS11
ATOM  44057  N   THR K  33     214.589 119.070 -73.848  1.00 62.90      KS11
ATOM  44058  CA  THR K  33     214.153 118.397 -75.064  1.00 62.90      KS11
ATOM  44059  CB  THR K  33     212.750 117.784 -74.836  1.00 46.90      KS11
ATOM  44060  OG1 THR K  33     212.826 116.364 -74.976  1.00 46.90      KS11
ATOM  44061  CG2 THR K  33     211.728 118.346 -75.814  1.00 46.90      KS11
ATOM  44062  C   THR K  33     214.117 119.304 -76.289  1.00 62.90      KS11
ATOM  44063  O   THR K  33     214.101 120.524 -76.166  1.00 62.90      KS11
ATOM  44064  N   ASP K  34     214.097 118.702 -77.473  1.00 65.87      KS11
ATOM  44065  CA  ASP K  34     214.051 119.476 -78.705  1.00 65.87      KS11
ATOM  44066  CB  ASP K  34     214.677 118.686 -79.853  1.00 83.98      KS11
ATOM  44067  CG  ASP K  34     213.681 117.784 -80.544  1.00 83.98      KS11
ATOM  44068  OD1 ASP K  34     213.094 116.918 -79.862  1.00 83.98      KS11
ATOM  44069  OD2 ASP K  34     213.482 117.947 -81.768  1.00 83.98      KS11
ATOM  44070  C   ASP K  34     212.595 119.819 -79.046  1.00 65.87      KS11
ATOM  44071  O   ASP K  34     211.663 119.180 -78.553  1.00 65.87      KS11
ATOM  44072  N   PRO K  35     212.387 120.838 -79.901  1.00 58.81      KS11
ATOM  44073  CD  PRO K  35     213.435 121.680 -80.509  1.00 23.54      KS11
ATOM  44074  CA  PRO K  35     211.064 121.297 -80.328  1.00 58.81      KS11
ATOM  44075  CB  PRO K  35     211.397 122.210 -81.501  1.00 23.54      KS11
ATOM  44076  CG  PRO K  35     212.645 122.861 -81.039  1.00 23.54      KS11
ATOM  44077  C   PRO K  35     210.055 120.210 -80.692  1.00 58.81      KS11
ATOM  44078  O   PRO K  35     208.852 120.460 -80.703  1.00 58.81      KS11
ATOM  44079  N   ASP K  36     210.534 119.015 -81.006  1.00 56.64      KS11
ATOM  44080  CA  ASP K  36     209.626 117.927 -81.342  1.00 56.64      KS11
ATOM  44081  CB  ASP K  36     210.282 116.944 -82.313  1.00146.05      KS11
ATOM  44082  CG  ASP K  36     210.222 117.421 -83.749  1.00146.05      KS11
ATOM  44083  OD1 ASP K  36     210.675 116.678 -84.647  1.00146.05      KS11
ATOM  44084  OD2 ASP K  36     209.716 118.539 -83.979  1.00146.05      KS11
ATOM  44085  C   ASP K  36     209.212 117.208 -80.065  1.00 56.64      KS11
ATOM  44086  O   ASP K  36     208.186 116.525 -80.029  1.00 56.64      KS11
ATOM  44087  N   GLY K  37     210.012 117.369 -79.014  1.00 41.78      KS11
ATOM  44088  CA  GLY K  37     209.686 116.743 -77.748  1.00 41.78      KS11
ATOM  44089  C   GLY K  37     210.613 115.618 -77.356  1.00 41.78      KS11
ATOM  44090  O   GLY K  37     210.472 115.061 -76.265  1.00 41.78      KS11
ATOM  44091  N   ASN K  38     211.552 115.281 -78.243  1.00 46.46      KS11
ATOM  44092  CA  ASN K  38     212.521 114.208 -77.999  1.00 46.46      KS11
ATOM  44093  CB  ASN K  38     213.183 113.782 -79.309  1.00 97.98      KS11
ATOM  44094  CG  ASN K  38     212.191 113.195 -80.302  1.00 97.98      KS11
ATOM  44095  OD1 ASN K  38     212.531 112.954 -81.456  1.00 97.98      KS11
ATOM  44096  ND2 ASN K  38     210.962 112.957 -79.855  1.00 97.98      KS11
ATOM  44097  C   ASN K  38     213.569 114.702 -77.020  1.00 46.46      KS11
ATOM  44098  O   ASN K  38     214.122 115.785 -77.174  1.00 46.46      KS11
ATOM  44099  N   PRO K  39     213.854 113.916 -75.988  1.00 30.58      KS11
ATOM  44100  CD  PRO K  39     213.313 112.607 -75.591  1.00 44.74      KS11
ATOM  44101  CA  PRO K  39     214.852 114.380 -75.033  1.00 30.58      KS11
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ATOM  44102  CB  PRO K  39     214.770 113.343 -73.916  1.00 44.74       KS11
ATOM  44103  CG  PRO K  39     214.361 112.114 -74.620  1.00 44.74       KS11
ATOM  44104  C   PRO K  39     216.241 114.512 -75.605  1.00 30.58       KS11
ATOM  44105  O   PRO K  39     216.586 113.873 -76.591  1.00 30.58       KS11
ATOM  44106  N   ILE K  40     217.029 115.373 -74.982  1.00 54.12       KS11
ATOM  44107  CA  ILE K  40     218.403 115.592 -75.385  1.00 54.12       KS11
ATOM  44108  CB  ILE K  40     218.650 117.043 -75.725  1.00 49.56       KS11
ATOM  44109  CG2 ILE K  40     220.128 117.312 -75.779  1.00 49.56       KS11
ATOM  44110  CG1 ILE K  40     217.973 117.373 -77.046  1.00 49.56       KS11
ATOM  44111  CD1 ILE K  40     218.126 118.829 -77.444  1.00 49.56       KS11
ATOM  44112  C   ILE K  40     219.259 115.222 -74.196  1.00 54.12       KS11
ATOM  44113  O   ILE K  40     220.121 114.359 -74.290  1.00 54.12       KS11
ATOM  44114  N   THR K  41     219.005 115.886 -73.074  1.00 42.95       KS11
ATOM  44115  CA  THR K  41     219.728 115.630 -71.838  1.00 42.95       KS11
ATOM  44116  CB  THR K  41     220.760 116.703 -71.564  1.00 73.91       KS11
ATOM  44117  OG1 THR K  41     220.086 117.923 -71.235  1.00 73.91       KS11
ATOM  44118  CG2 THR K  41     221.625 116.926 -72.786  1.00 73.91       KS11
ATOM  44119  C   THR K  41     218.738 115.672 -70.688  1.00 42.95       KS11
ATOM  44120  O   THR K  41     217.764 116.428 -70.729  1.00 42.95       KS11
ATOM  44121  N   TRP K  42     218.986 114.866 -69.664  1.00 51.39       KS11
ATOM  44122  CA  TRP K  42     218.116 114.850 -68.503  1.00 51.39       KS11
ATOM  44123  CB  TRP K  42     217.191 113.647 -68.534  1.00 24.52       KS11
ATOM  44124  CG  TRP K  42     217.857 112.334 -68.220  1.00 24.52       KS11
ATOM  44125  CD2 TRP K  42     218.011 111.727 -66.927  1.00 24.52       KS11
ATOM  44126  CE2 TRP K  42     218.639 110.481 -67.123  1.00 24.52       KS11
ATOM  44127  CE3 TRP K  42     217.682 112.118 -65.626  1.00 24.52       KS11
ATOM  44128  CD1 TRP K  42     218.384 111.460 -69.112  1.00 24.52       KS11
ATOM  44129  NE1 TRP K  42     218.851 110.341 -68.466  1.00 24.52       KS11
ATOM  44130  CZ2 TRP K  42     218.942 109.614 -66.071  1.00 24.52       KS11
ATOM  44131  CZ3 TRP K  42     217.979 111.261 -64.580  1.00 24.52       KS11
ATOM  44132  CH2 TRP K  42     218.607 110.019 -64.809  1.00 24.52       KS11
ATOM  44133  C   TRP K  42     218.927 114.808 -67.224  1.00 51.39       KS11
ATOM  44134  O   TRP K  42     220.099 114.439 -67.225  1.00 51.39       KS11
ATOM  44135  N   SER K  43     218.285 115.160 -66.121  1.00 63.81       KS11
ATOM  44136  CA  SER K  43     218.960 115.172 -64.843  1.00 63.81       KS11
ATOM  44137  CB  SER K  43     219.769 116.445 -64.725  1.00 31.65       KS11
ATOM  44138  OG  SER K  43     219.847 116.830 -63.372  1.00 31.65       KS11
ATOM  44139  C   SER K  43     217.992 115.093 -63.676  1.00 63.81       KS11
ATOM  44140  O   SER K  43     216.845 115.521 -63.777  1.00 63.81       KS11
ATOM  44141  N   SER K  44     218.463 114.551 -62.562  1.00 10.78       KS11
ATOM  44142  CA  SER K  44     217.636 114.432 -61.366  1.00 10.78       KS11
ATOM  44143  CB  SER K  44     217.166 112.990 -61.170  1.00 13.29       KS11
ATOM  44144  OG  SER K  44     218.167 112.227 -60.507  1.00 13.29       KS11
ATOM  44145  C   SER K  44     218.446 114.825 -60.146  1.00 10.78       KS11
ATOM  44146  O   SER K  44     219.629 115.113 -60.237  1.00 10.78       KS11
ATOM  44147  N   GLY K  45     217.797 114.826 -58.993  1.00 37.51       KS11
ATOM  44148  CA  GLY K  45     218.508 115.148 -57.778  1.00 37.51       KS11
ATOM  44149  C   GLY K  45     219.378 113.939 -57.574  1.00 37.51       KS11
ATOM  44150  O   GLY K  45     220.477 114.015 -57.041  1.00 37.51       KS11
ATOM  44151  N   GLY K  46     218.866 112.805 -58.026  1.00 54.78       KS11
ATOM  44152  CA  GLY K  46     219.616 111.580 -57.899  1.00 54.78       KS11
ATOM  44153  C   GLY K  46     220.906 111.744 -58.661  1.00 54.78       KS11
ATOM  44154  O   GLY K  46     221.986 111.595 -58.090  1.00 54.78       KS11
ATOM  44155  N   VAL K  47     220.782 112.060 -59.949  1.00 62.50       KS11
ATOM  44156  CA  VAL K  47     221.928 112.258 -60.831  1.00 62.50       KS11
ATOM  44157  CB  VAL K  47     221.613 113.300 -61.910  1.00 51.79       KS11
ATOM  44158  CG1 VAL K  47     222.891 113.906 -62.435  1.00 51.79       KS11
ATOM  44159  CG2 VAL K  47     220.839 112.652 -63.046  1.00 51.79       KS11
ATOM  44160  C   VAL K  47     223.151 112.727 -60.069  1.00 62.50       KS11
ATOM  44161  O   VAL K  47     224.161 112.028 -60.000  1.00 62.50       KS11
ATOM  44162  N   ILE K  48     223.046 113.919 -59.500  1.00 30.12       KS11
ATOM  44163  CA  ILE K  48     224.125 114.516 -58.730  1.00 30.12       KS11
ATOM  44164  CB  ILE K  48     223.979 116.012 -58.760  1.00 21.23       KS11
ATOM  44165  CG2 ILE K  48     224.592 116.552 -60.023  1.00 21.23       KS11
ATOM  44166  CG1 ILE K  48     222.495 116.368 -58.670  1.00 21.23       KS11
ATOM  44167  CD1 ILE K  48     222.177 117.804 -58.996  1.00 21.23       KS11
ATOM  44168  C   ILE K  48     224.153 114.061 -57.271  1.00 30.12       KS11
ATOM  44169  O   ILE K  48     223.436 114.607 -56.440  1.00 30.12       KS11
ATOM  44170  N   GLY K  49     224.986 113.072 -56.955  1.00 63.93       KS11
ATOM  44171  CA  GLY K  49     225.070 112.570 -55.587  1.00 63.93       KS11
ATOM  44172  C   GLY K  49     223.695 112.375 -54.992  1.00 63.93       KS11
ATOM  44173  O   GLY K  49     222.864 111.665 -55.558  1.00 63.93       KS11
ATOM  44174  N   TYR K  50     223.458 113.011 -53.852  1.00 59.95       KS11
ATOM  44175  CA  TYR K  50     222.169 112.956 -53.157  1.00 59.95       KS11
ATOM  44176  CB  TYR K  50     221.320 114.167 -53.547  1.00 46.91       KS11
ATOM  44177  CG  TYR K  50     221.805 115.493 -53.011  1.00 46.91       KS11
ATOM  44178  CD1 TYR K  50     221.362 116.686 -53.573  1.00 46.91       KS11
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ATOM  44179  CE1 TYR K  50     221.787 117.919 -53.087  1.00 46.91      KS11
ATOM  44180  CD2 TYR K  50     222.690 115.564 -51.943  1.00 46.91      KS11
ATOM  44181  CE2 TYR K  50     223.125 116.795 -51.447  1.00 46.91      KS11
ATOM  44182  CZ  TYR K  50     222.668 117.970 -52.025  1.00 46.91      KS11
ATOM  44183  OH  TYR K  50     223.093 119.196 -51.552  1.00 46.91      KS11
ATOM  44184  C   TYR K  50     221.314 111.702 -53.349  1.00 59.95      KS11
ATOM  44185  O   TYR K  50     220.724 111.491 -54.411  1.00 59.95      KS11
ATOM  44186  N   LYS K  51     221.237 110.883 -52.304  1.00 68.02      KS11
ATOM  44187  CA  LYS K  51     220.424 109.679 -52.339  1.00 68.02      KS11
ATOM  44188  CB  LYS K  51     221.277 108.434 -52.068  1.00154.76      KS11
ATOM  44189  CG  LYS K  51     221.398 107.482 -53.257  1.00154.76      KS11
ATOM  44190  CD  LYS K  51     221.099 106.024 -52.874  1.00154.76      KS11
ATOM  44191  CE  LYS K  51     219.614 105.796 -52.578  1.00154.76      KS11
ATOM  44192  NZ  LYS K  51     219.285 104.363 -52.313  1.00154.76      KS11
ATOM  44193  C   LYS K  51     219.321 109.779 -51.283  1.00 68.02      KS11
ATOM  44194  O   LYS K  51     219.510 110.350 -50.209  1.00 68.02      KS11
ATOM  44195  N   GLY K  52     218.159 109.230 -51.598  1.00 64.12      KS11
ATOM  44196  CA  GLY K  52     217.064 109.245 -50.651  1.00 64.12      KS11
ATOM  44197  C   GLY K  52     216.489 110.592 -50.272  1.00 64.12      KS11
ATOM  44198  O   GLY K  52     215.993 111.342 -51.115  1.00 64.12      KS11
ATOM  44199  N   SER K  53     216.547 110.885 -48.982  1.00 40.67      KS11
ATOM  44200  CA  SER K  53     216.008 112.125 -48.459  1.00 40.67      KS11
ATOM  44201  CB  SER K  53     216.282 112.198 -46.958  1.00 83.65      KS11
ATOM  44202  OG  SER K  53     215.745 113.388 -46.405  1.00 83.65      KS11
ATOM  44203  C   SER K  53     216.514 113.411 -49.142  1.00 40.67      KS11
ATOM  44204  O   SER K  53     215.736 114.187 -49.706  1.00 40.67      KS11
ATOM  44205  N   ARG K  54     217.817 113.643 -49.085  1.00 50.57      KS11
ATOM  44206  CA  ARG K  54     218.397 114.845 -49.669  1.00 50.57      KS11
ATOM  44207  CB  ARG K  54     219.923 114.752 -49.611  1.00113.85      KS11
ATOM  44208  CG  ARG K  54     220.449 113.809 -48.532  1.00113.85      KS11
ATOM  44209  CD  ARG K  54     220.452 114.441 -47.152  1.00113.85      KS11
ATOM  44210  NE  ARG K  54     221.783 114.919 -46.788  1.00113.85      KS11
ATOM  44211  CZ  ARG K  54     222.446 115.866 -47.443  1.00113.85      KS11
ATOM  44212  NH1 ARG K  54     221.904 116.450 -48.504  1.00113.85      KS11
ATOM  44213  NH2 ARG K  54     223.657 116.228 -47.043  1.00113.85      KS11
ATOM  44214  C   ARG K  54     217.962 115.050 -51.119  1.00 50.57      KS11
ATOM  44215  O   ARG K  54     217.945 116.164 -51.625  1.00 50.57      KS11
ATOM  44216  N   LYS K  55     217.602 113.963 -51.785  1.00 45.68      KS11
ATOM  44217  CA  LYS K  55     217.234 114.019 -53.192  1.00 45.68      KS11
ATOM  44218  CB  LYS K  55     216.729 112.643 -53.632  1.00 19.49      KS11
ATOM  44219  CG  LYS K  55     217.104 112.240 -55.056  1.00 19.49      KS11
ATOM  44220  CD  LYS K  55     216.627 110.814 -55.350  1.00 19.49      KS11
ATOM  44221  CE  LYS K  55     217.244 109.801 -54.381  1.00 19.49      KS11
ATOM  44222  NZ  LYS K  55     216.788 108.383 -54.565  1.00 19.49      KS11
ATOM  44223  C   LYS K  55     216.226 115.100 -53.568  1.00 45.68      KS11
ATOM  44224  O   LYS K  55     216.478 115.896 -54.472  1.00 45.68      KS11
ATOM  44225  N   GLY K  56     215.092 115.127 -52.875  1.00 53.52      KS11
ATOM  44226  CA  GLY K  56     214.053 116.100 -53.174  1.00 53.52      KS11
ATOM  44227  C   GLY K  56     214.420 117.565 -53.001  1.00 53.52      KS11
ATOM  44228  O   GLY K  56     214.461 118.309 -53.989  1.00 53.52      KS11
ATOM  44229  N   THR K  57     214.673 117.966 -51.749  1.00 25.93      KS11
ATOM  44230  CA  THR K  57     215.037 119.336 -51.378  1.00 25.93      KS11
ATOM  44231  CB  THR K  57     216.290 119.397 -50.442  1.00 28.48      KS11
ATOM  44232  OG1 THR K  57     217.178 120.436 -50.883  1.00 28.48      KS11
ATOM  44233  CG2 THR K  57     217.024 118.097 -50.426  1.00 28.48      KS11
ATOM  44234  C   THR K  57     215.290 120.319 -52.505  1.00 25.93      KS11
ATOM  44235  O   THR K  57     216.026 120.048 -53.456  1.00 25.93      KS11
ATOM  44236  N   PRO K  58     214.698 121.505 -52.384  1.00 37.17      KS11
ATOM  44237  CD  PRO K  58     214.090 122.023 -51.154  1.00 25.91      KS11
ATOM  44238  CA  PRO K  58     214.833 122.570 -53.368  1.00 37.17      KS11
ATOM  44239  CB  PRO K  58     214.305 123.792 -52.621  1.00 25.91      KS11
ATOM  44240  CG  PRO K  58     214.533 123.442 -51.193  1.00 25.91      KS11
ATOM  44241  C   PRO K  58     216.264 122.745 -53.853  1.00 37.17      KS11
ATOM  44242  O   PRO K  58     216.501 123.004 -55.033  1.00 37.17      KS11
ATOM  44243  N   TYR K  59     217.226 122.598 -52.954  1.00 39.32      KS11
ATOM  44244  CA  TYR K  59     218.607 122.754 -53.372  1.00 39.32      KS11
ATOM  44245  CB  TYR K  59     219.558 122.600 -52.197  1.00 63.74      KS11
ATOM  44246  CG  TYR K  59     220.991 122.699 -52.630  1.00 63.74      KS11
ATOM  44247  CD1 TYR K  59     221.411 123.741 -53.445  1.00 63.74      KS11
ATOM  44248  CE1 TYR K  59     222.725 123.840 -53.859  1.00 63.74      KS11
ATOM  44249  CD2 TYR K  59     221.925 121.750 -52.233  1.00 63.74      KS11
ATOM  44250  CE2 TYR K  59     223.247 121.835 -52.637  1.00 63.74      KS11
ATOM  44251  CZ  TYR K  59     223.645 122.885 -53.453  1.00 63.74      KS11
ATOM  44252  OH  TYR K  59     224.962 122.984 -53.861  1.00 63.74      KS11
ATOM  44253  C   TYR K  59     218.968 121.739 -54.440  1.00 39.32      KS11
ATOM  44254  O   TYR K  59     219.376 122.106 -55.535  1.00 39.32      KS11
ATOM  44255  N   ALA K  60     218.824 120.462 -54.112  1.00 23.72      KS11
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ATOM  44256  CA   ALA K  60     219.130 119.405 -55.061  1.00 23.72       KS11
ATOM  44257  CB   ALA K  60     218.579 118.089 -54.562  1.00  2.26       KS11
ATOM  44258  C    ALA K  60     218.471 119.780 -56.376  1.00 23.72       KS11
ATOM  44259  O    ALA K  60     219.031 119.579 -57.452  1.00 23.72       KS11
ATOM  44260  N    ALA K  61     217.271 120.341 -56.271  1.00 21.95       KS11
ATOM  44261  CA   ALA K  61     216.513 120.760 -57.441  1.00 21.95       KS11
ATOM  44262  CB   ALA K  61     215.147 121.276 -57.019  1.00144.79       KS11
ATOM  44263  C    ALA K  61     217.262 121.834 -58.218  1.00 21.95       KS11
ATOM  44264  O    ALA K  61     217.255 121.843 -59.441  1.00 21.95       KS11
ATOM  44265  N    GLN K  62     217.894 122.753 -57.508  1.00 32.96       KS11
ATOM  44266  CA   GLN K  62     218.647 123.790 -58.182  1.00 32.96       KS11
ATOM  44267  CB   GLN K  62     219.239 124.757 -57.163  1.00 73.93       KS11
ATOM  44268  CG   GLN K  62     220.016 125.894 -57.783  1.00 73.93       KS11
ATOM  44269  CD   GLN K  62     220.578 126.832 -56.742  1.00 73.93       KS11
ATOM  44270  OE1  GLN K  62     221.279 126.404 -55.829  1.00 73.93       KS11
ATOM  44271  NE2  GLN K  62     220.275 128.121 -56.872  1.00 73.93       KS11
ATOM  44272  C    GLN K  62     219.762 123.085 -58.946  1.00 32.96       KS11
ATOM  44273  O    GLN K  62     219.883 123.208 -60.166  1.00 32.96       KS11
ATOM  44274  N    LEU K  63     220.567 122.328 -58.216  1.00 50.89       KS11
ATOM  44275  CA   LEU K  63     221.667 121.595 -58.811  1.00 50.89       KS11
ATOM  44276  CB   LEU K  63     222.227 120.611 -57.793  1.00 43.78       KS11
ATOM  44277  CG   LEU K  63     223.020 121.240 -56.650  1.00 43.78       KS11
ATOM  44278  CD1  LEU K  63     223.443 120.167 -55.678  1.00 43.78       KS11
ATOM  44279  CD2  LEU K  63     224.239 121.956 -57.207  1.00 43.78       KS11
ATOM  44280  C    LEU K  63     221.241 120.854 -60.072  1.00 50.89       KS11
ATOM  44281  O    LEU K  63     221.837 121.018 -61.136  1.00 50.89       KS11
ATOM  44282  N    ALA K  64     220.209 120.035 -59.956  1.00 23.60       KS11
ATOM  44283  CA   ALA K  64     219.724 119.294 -61.109  1.00 23.60       KS11
ATOM  44284  CB   ALA K  64     218.526 118.409 -60.703  1.00  5.91       KS11
ATOM  44285  C    ALA K  64     219.330 120.254 -62.237  1.00 23.60       KS11
ATOM  44286  O    ALA K  64     219.686 120.048 -63.387  1.00 23.60       KS11
ATOM  44287  N    ALA K  65     218.601 121.311 -61.901  1.00 30.42       KS11
ATOM  44288  CA   ALA K  65     218.167 122.286 -62.897  1.00 30.42       KS11
ATOM  44289  CB   ALA K  65     217.596 123.520 -62.211  1.00 23.65       KS11
ATOM  44290  C    ALA K  65     219.350 122.682 -63.744  1.00 30.42       KS11
ATOM  44291  O    ALA K  65     219.356 122.497 -64.963  1.00 30.42       KS11
ATOM  44292  N    LEU K  66     220.352 123.234 -63.070  1.00 52.44       KS11
ATOM  44293  CA   LEU K  66     221.575 123.674 -63.713  1.00 52.44       KS11
ATOM  44294  CB   LEU K  66     222.576 124.095 -62.659  1.00 37.09       KS11
ATOM  44295  CG   LEU K  66     221.994 125.175 -61.758  1.00 37.09       KS11
ATOM  44296  CD1  LEU K  66     222.874 125.345 -60.519  1.00 37.09       KS11
ATOM  44297  CD2  LEU K  66     221.864 126.472 -62.547  1.00 37.09       KS11
ATOM  44298  C    LEU K  66     222.142 122.535 -64.523  1.00 52.44       KS11
ATOM  44299  O    LEU K  66     222.289 122.645 -65.739  1.00 52.44       KS11
ATOM  44300  N    ASP K  67     222.455 121.440 -63.838  1.00 41.14       KS11
ATOM  44301  CA   ASP K  67     223.000 120.264 -64.494  1.00 41.14       KS11
ATOM  44302  CB   ASP K  67     222.753 119.017 -63.649  1.00107.79       KS11
ATOM  44303  CG   ASP K  67     223.381 117.776 -64.253  1.00107.79       KS11
ATOM  44304  OD1  ASP K  67     223.050 116.658 -63.810  1.00107.79       KS11
ATOM  44305  OD2  ASP K  67     224.214 117.919 -65.170  1.00107.79       KS11
ATOM  44306  C    ASP K  67     222.343 120.089 -65.858  1.00 41.14       KS11
ATOM  44307  O    ASP K  67     223.028 120.047 -66.876  1.00 41.14       KS11
ATOM  44308  N    ALA K  68     221.013 120.006 -65.870  1.00 34.09       KS11
ATOM  44309  CA   ALA K  68     220.243 119.831 -67.101  1.00 34.09       KS11
ATOM  44310  CB   ALA K  68     218.761 119.995 -66.815  1.00134.70       KS11
ATOM  44311  C    ALA K  68     220.679 120.823 -68.170  1.00 34.09       KS11
ATOM  44312  O    ALA K  68     221.004 120.428 -69.287  1.00 34.09       KS11
ATOM  44313  N    ALA K  69     220.681 122.109 -67.828  1.00 42.29       KS11
ATOM  44314  CA   ALA K  69     221.099 123.142 -68.770  1.00 42.29       KS11
ATOM  44315  CB   ALA K  69     220.940 124.516 -68.147  1.00 67.28       KS11
ATOM  44316  C    ALA K  69     222.556 122.922 -69.170  1.00 42.29       KS11
ATOM  44317  O    ALA K  69     222.851 122.654 -70.339  1.00 42.29       KS11
ATOM  44318  N    LYS K  70     223.458 123.033 -68.193  1.00 40.83       KS11
ATOM  44319  CA   LYS K  70     224.892 122.848 -68.418  1.00 40.83       KS11
ATOM  44320  CB   LYS K  70     225.592 122.497 -67.103  1.00201.26       KS11
ATOM  44321  CG   LYS K  70     225.499 123.592 -66.049  1.00201.26       KS11
ATOM  44322  CD   LYS K  70     226.064 123.135 -64.711  1.00201.26       KS11
ATOM  44323  CE   LYS K  70     225.884 124.201 -63.639  1.00201.26       KS11
ATOM  44324  NZ   LYS K  70     226.312 123.720 -62.294  1.00201.26       KS11
ATOM  44325  C    LYS K  70     225.162 121.766 -69.458  1.00 40.83       KS11
ATOM  44326  O    LYS K  70     225.981 121.962 -70.352  1.00 40.83       KS11
ATOM  44327  N    LYS K  71     224.467 120.634 -69.348  1.00 45.65       KS11
ATOM  44328  CA   LYS K  71     224.639 119.537 -70.300  1.00 45.65       KS11
ATOM  44329  CB   LYS K  71     223.949 118.263 -69.818  1.00 44.05       KS11
ATOM  44330  CG   LYS K  71     224.604 117.557 -68.656  1.00 44.05       KS11
ATOM  44331  CD   LYS K  71     224.001 116.156 -68.480  1.00 44.05       KS11
ATOM  44332  CE   LYS K  71     224.507 115.448 -67.216  1.00 44.05       KS11
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ATOM  44333  NZ  LYS K  71     224.067 114.017 -67.121  1.00 44.05      KS11
ATOM  44334  C   LYS K  71     224.064 119.898 -71.660  1.00 45.65      KS11
ATOM  44335  O   LYS K  71     224.686 119.664 -72.685  1.00 45.65      KS11
ATOM  44336  N   ALA K  72     222.864 120.454 -71.674  1.00 23.74      KS11
ATOM  44337  CA  ALA K  72     222.248 120.818 -72.931  1.00 23.74      KS11
ATOM  44338  CB  ALA K  72     220.779 121.121 -72.731  1.00 34.13      KS11
ATOM  44339  C   ALA K  72     222.960 122.031 -73.489  1.00 23.74      KS11
ATOM  44340  O   ALA K  72     222.733 122.420 -74.632  1.00 23.74      KS11
ATOM  44341  N   MET K  73     223.813 122.645 -72.682  1.00 72.35      KS11
ATOM  44342  CA  MET K  73     224.549 123.804 -73.154  1.00 72.35      KS11
ATOM  44343  CB  MET K  73     225.277 124.479 -71.991  1.00106.81      KS11
ATOM  44344  CG  MET K  73     224.338 125.100 -70.971  1.00106.81      KS11
ATOM  44345  SD  MET K  73     223.352 126.438 -71.660  1.00106.81      KS11
ATOM  44346  CE  MET K  73     223.878 127.835 -70.612  1.00106.81      KS11
ATOM  44347  C   MET K  73     225.542 123.326 -74.216  1.00 72.35      KS11
ATOM  44348  O   MET K  73     226.025 124.107 -75.039  1.00 72.35      KS11
ATOM  44349  N   ALA K  74     225.837 122.031 -74.194  1.00 77.82      KS11
ATOM  44350  CA  ALA K  74     226.743 121.446 -75.169  1.00 77.82      KS11
ATOM  44351  CB  ALA K  74     227.201 120.080 -74.707  1.00 85.19      KS11
ATOM  44352  C   ALA K  74     225.989 121.333 -76.489  1.00 77.82      KS11
ATOM  44353  O   ALA K  74     226.428 121.864 -77.510  1.00 77.82      KS11
ATOM  44354  N   TYR K  75     224.848 120.650 -76.469  1.00 55.37      KS11
ATOM  44355  CA  TYR K  75     224.045 120.505 -77.675  1.00 55.37      KS11
ATOM  44356  CB  TYR K  75     222.771 119.712 -77.391  1.00 99.79      KS11
ATOM  44357  CG  TYR K  75     222.971 118.218 -77.315  1.00 99.79      KS11
ATOM  44358  CD1 TYR K  75     223.894 117.661 -76.432  1.00 99.79      KS11
ATOM  44359  CE1 TYR K  75     224.047 116.271 -76.321  1.00 99.79      KS11
ATOM  44360  CD2 TYR K  75     222.203 117.353 -78.095  1.00 99.79      KS11
ATOM  44361  CE2 TYR K  75     222.344 115.963 -77.992  1.00 99.79      KS11
ATOM  44362  CZ  TYR K  75     223.268 115.429 -77.102  1.00 99.79      KS11
ATOM  44363  OH  TYR K  75     223.409 114.060 -76.986  1.00 99.79      KS11
ATOM  44364  C   TYR K  75     223.682 121.881 -78.228  1.00 55.37      KS11
ATOM  44365  O   TYR K  75     222.846 121.995 -79.125  1.00 55.37      KS11
ATOM  44366  N   GLY K  76     224.301 122.920 -77.673  1.00 54.31      KS11
ATOM  44367  CA  GLY K  76     224.067 124.274 -78.138  1.00 54.31      KS11
ATOM  44368  C   GLY K  76     222.738 124.934 -77.820  1.00 54.31      KS11
ATOM  44369  O   GLY K  76     222.364 125.894 -78.492  1.00 54.31      KS11
ATOM  44370  N   MET K  77     222.028 124.439 -76.808  1.00 70.17      KS11
ATOM  44371  CA  MET K  77     220.738 125.008 -76.412  1.00 70.17      KS11
ATOM  44372  CB  MET K  77     220.176 124.268 -75.192  1.00 91.61      KS11
ATOM  44373  CG  MET K  77     219.457 122.949 -75.474  1.00 91.61      KS11
ATOM  44374  SD  MET K  77     217.803 123.150 -76.176  1.00 91.61      KS11
ATOM  44375  CE  MET K  77     217.201 124.507 -75.196  1.00 91.61      KS11
ATOM  44376  C   MET K  77     220.881 126.480 -76.051  1.00 70.17      KS11
ATOM  44377  O   MET K  77     221.970 126.941 -75.710  1.00 70.17      KS11
ATOM  44378  N   GLN K  78     219.773 127.210 -76.120  1.00 85.58      KS11
ATOM  44379  CA  GLN K  78     219.762 128.627 -75.777  1.00 85.58      KS11
ATOM  44380  CB  GLN K  78     220.145 129.476 -76.989  1.00145.46      KS11
ATOM  44381  CG  GLN K  78     221.566 129.257 -77.472  1.00145.46      KS11
ATOM  44382  CD  GLN K  78     221.962 130.214 -78.575  1.00145.46      KS11
ATOM  44383  OE1 GLN K  78     223.066 130.132 -79.113  1.00145.46      KS11
ATOM  44384  NE2 GLN K  78     221.064 131.133 -78.917  1.00145.46      KS11
ATOM  44385  C   GLN K  78     218.384 129.042 -75.273  1.00 85.58      KS11
ATOM  44386  O   GLN K  78     218.229 129.454 -74.125  1.00 85.58      KS11
ATOM  44387  N   SER K  79     217.387 128.924 -76.144  1.00 77.71      KS11
ATOM  44388  CA  SER K  79     216.009 129.279 -75.814  1.00 77.71      KS11
ATOM  44389  CB  SER K  79     215.308 129.868 -77.041  1.00194.32      KS11
ATOM  44390  OG  SER K  79     213.928 130.074 -76.794  1.00194.32      KS11
ATOM  44391  C   SER K  79     215.258 128.046 -75.345  1.00 77.71      KS11
ATOM  44392  O   SER K  79     215.365 126.980 -75.946  1.00 77.71      KS11
ATOM  44393  N   VAL K  80     214.491 128.194 -74.272  1.00 82.78      KS11
ATOM  44394  CA  VAL K  80     213.739 127.072 -73.736  1.00 82.78      KS11
ATOM  44395  CB  VAL K  80     214.469 126.417 -72.568  1.00 67.88      KS11
ATOM  44396  CG1 VAL K  80     213.942 125.022 -72.369  1.00 67.88      KS11
ATOM  44397  CG2 VAL K  80     215.960 126.416 -72.811  1.00 67.88      KS11
ATOM  44398  C   VAL K  80     212.372 127.463 -73.212  1.00 82.78      KS11
ATOM  44399  O   VAL K  80     212.187 128.559 -72.684  1.00 82.78      KS11
ATOM  44400  N   ASP K  81     211.421 126.546 -73.362  1.00 71.73      KS11
ATOM  44401  CA  ASP K  81     210.058 126.731 -72.873  1.00 71.73      KS11
ATOM  44402  CB  ASP K  81     209.037 126.301 -73.926  1.00118.20      KS11
ATOM  44403  CG  ASP K  81     209.198 127.045 -75.235  1.00118.20      KS11
ATOM  44404  OD1 ASP K  81     210.276 126.939 -75.858  1.00118.20      KS11
ATOM  44405  OD2 ASP K  81     208.243 127.736 -75.642  1.00118.20      KS11
ATOM  44406  C   ASP K  81     209.992 125.788 -71.685  1.00 71.73      KS11
ATOM  44407  O   ASP K  81     210.234 124.589 -71.824  1.00 71.73      KS11
ATOM  44408  N   VAL K  82     209.693 126.317 -70.510  1.00 64.32      KS11
ATOM  44409  CA  VAL K  82     209.640 125.460 -69.346  1.00 64.32      KS11
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ATOM  44410  CB  VAL K  82     210.179 126.175 -68.107  1.00 58.51      KS11
ATOM  44411  CG1 VAL K  82     210.160 125.229 -66.927  1.00 58.51      KS11
ATOM  44412  CG2 VAL K  82     211.594 126.645 -68.363  1.00 58.51      KS11
ATOM  44413  C   VAL K  82     208.238 124.958 -69.068  1.00 64.32      KS11
ATOM  44414  O   VAL K  82     207.261 125.693 -69.188  1.00 64.32      KS11
ATOM  44415  N   ILE K  83     208.158 123.686 -68.702  1.00 29.14      KS11
ATOM  44416  CA  ILE K  83     206.898 123.036 -68.397  1.00 29.14      KS11
ATOM  44417  CB  ILE K  83     206.552 122.009 -69.446  1.00 34.36      KS11
ATOM  44418  CG2 ILE K  83     205.090 121.636 -69.324  1.00 34.36      KS11
ATOM  44419  CG1 ILE K  83     206.853 122.562 -70.828  1.00 34.36      KS11
ATOM  44420  CD1 ILE K  83     206.767 121.505 -71.895  1.00 34.36      KS11
ATOM  44421  C   ILE K  83     206.981 122.311 -67.058  1.00 29.14      KS11
ATOM  44422  O   ILE K  83     207.688 121.309 -66.905  1.00 29.14      KS11
ATOM  44423  N   VAL K  84     206.230 122.819 -66.095  1.00 21.05      KS11
ATOM  44424  CA  VAL K  84     206.211 122.249 -64.765  1.00 21.05      KS11
ATOM  44425  CB  VAL K  84     206.063 123.375 -63.744  1.00 44.89      KS11
ATOM  44426  CG1 VAL K  84     207.444 123.880 -63.343  1.00 44.89      KS11
ATOM  44427  CG2 VAL K  84     205.267 124.530 -64.369  1.00 44.89      KS11
ATOM  44428  C   VAL K  84     205.117 121.204 -64.575  1.00 21.05      KS11
ATOM  44429  O   VAL K  84     204.020 121.320 -65.111  1.00 21.05      KS11
ATOM  44430  N   ARG K  85     205.439 120.164 -63.824  1.00 34.82      KS11
ATOM  44431  CA  ARG K  85     204.492 119.096 -63.563  1.00 34.82      KS11
ATOM  44432  CB  ARG K  85     204.754 117.888 -64.453  1.00 47.82      KS11
ATOM  44433  CG  ARG K  85     204.584 118.144 -65.911  1.00 47.82      KS11
ATOM  44434  CD  ARG K  85     203.456 117.315 -66.459  1.00 47.82      KS11
ATOM  44435  NE  ARG K  85     203.384 117.432 -67.909  1.00 47.82      KS11
ATOM  44436  CZ  ARG K  85     204.261 116.881 -68.739  1.00 47.82      KS11
ATOM  44437  NH1 ARG K  85     205.266 116.171 -68.252  1.00 47.82      KS11
ATOM  44438  NH2 ARG K  85     204.144 117.055 -70.051  1.00 47.82      KS11
ATOM  44439  C   ARG K  85     204.667 118.660 -62.138  1.00 34.82      KS11
ATOM  44440  O   ARG K  85     205.758 118.262 -61.743  1.00 34.82      KS11
ATOM  44441  N   GLY K  86     203.592 118.726 -61.365  1.00 49.09      KS11
ATOM  44442  CA  GLY K  86     203.662 118.302 -59.983  1.00 49.09      KS11
ATOM  44443  C   GLY K  86     203.956 119.447 -59.055  1.00 49.09      KS11
ATOM  44444  O   GLY K  86     203.962 120.610 -59.463  1.00 49.09      KS11
ATOM  44445  N   THR K  87     204.194 119.109 -57.799  1.00 66.03      KS11
ATOM  44446  CA  THR K  87     204.495 120.103 -56.791  1.00 66.03      KS11
ATOM  44447  CB  THR K  87     203.402 120.152 -55.746  1.00 45.79      KS11
ATOM  44448  OG1 THR K  87     202.137 119.901 -56.372  1.00 45.79      KS11
ATOM  44449  CG2 THR K  87     203.402 121.514 -55.065  1.00 45.79      KS11
ATOM  44450  C   THR K  87     205.764 119.651 -56.109  1.00 66.03      KS11
ATOM  44451  O   THR K  87     206.582 118.960 -56.708  1.00 66.03      KS11
ATOM  44452  N   GLY K  88     205.934 120.039 -54.854  1.00 41.34      KS11
ATOM  44453  CA  GLY K  88     207.106 119.593 -54.131  1.00 41.34      KS11
ATOM  44454  C   GLY K  88     208.164 120.632 -53.901  1.00 41.34      KS11
ATOM  44455  O   GLY K  88     208.411 121.487 -54.747  1.00 41.34      KS11
ATOM  44456  N   ALA K  89     208.789 120.561 -52.734  1.00109.06      KS11
ATOM  44457  CA  ALA K  89     209.839 121.498 -52.406  1.00109.06      KS11
ATOM  44458  CB  ALA K  89     210.452 121.145 -51.060  1.00196.41      KS11
ATOM  44459  C   ALA K  89     210.871 121.360 -53.507  1.00109.06      KS11
ATOM  44460  O   ALA K  89     211.524 120.320 -53.616  1.00109.06      KS11
ATOM  44461  N   GLY K  90     210.999 122.385 -54.343  1.00 56.53      KS11
ATOM  44462  CA  GLY K  90     211.984 122.305 -55.406  1.00 56.53      KS11
ATOM  44463  C   GLY K  90     211.501 122.617 -56.803  1.00 56.53      KS11
ATOM  44464  O   GLY K  90     212.305 122.865 -57.699  1.00 56.53      KS11
ATOM  44465  N   ARG K  91     210.192 122.588 -57.005  1.00 33.39      KS11
ATOM  44466  CA  ARG K  91     209.641 122.898 -58.317  1.00 33.39      KS11
ATOM  44467  CB  ARG K  91     208.124 122.711 -58.327  1.00 74.14      KS11
ATOM  44468  CG  ARG K  91     207.461 123.329 -59.538  1.00 74.14      KS11
ATOM  44469  CD  ARG K  91     206.345 124.244 -59.121  1.00 74.14      KS11
ATOM  44470  NE  ARG K  91     205.223 123.488 -58.580  1.00 74.14      KS11
ATOM  44471  CZ  ARG K  91     204.163 124.036 -57.994  1.00 74.14      KS11
ATOM  44472  NH1 ARG K  91     204.080 125.354 -57.867  1.00 74.14      KS11
ATOM  44473  NH2 ARG K  91     203.182 123.269 -57.538  1.00 74.14      KS11
ATOM  44474  C   ARG K  91     209.962 124.346 -58.658  1.00 33.39      KS11
ATOM  44475  O   ARG K  91     210.816 124.633 -59.506  1.00 33.39      KS11
ATOM  44476  N   GLU K  92     209.272 125.257 -57.984  1.00 52.22      KS11
ATOM  44477  CA  GLU K  92     209.486 126.661 -58.235  1.00 52.22      KS11
ATOM  44478  CB  GLU K  92     208.746 127.508 -57.208  1.00 81.86      KS11
ATOM  44479  CG  GLU K  92     208.105 128.752 -57.817  1.00 81.86      KS11
ATOM  44480  CD  GLU K  92     207.199 128.430 -59.005  1.00 81.86      KS11
ATOM  44481  OE1 GLU K  92     206.269 127.610 -58.854  1.00 81.86      KS11
ATOM  44482  OE2 GLU K  92     207.417 129.000 -60.095  1.00 81.86      KS11
ATOM  44483  C   GLU K  92     210.972 126.944 -58.187  1.00 52.22      KS11
ATOM  44484  O   GLU K  92     211.491 127.675 -59.020  1.00 52.22      KS11
ATOM  44485  N   GLN K  93     211.666 126.333 -57.234  1.00 50.17      KS11
ATOM  44486  CA  GLN K  93     213.109 126.536 -57.093  1.00 50.17      KS11
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ATOM  44487  CB  GLN K  93     213.657 125.657 -55.969  1.00117.27      KS11
ATOM  44488  CG  GLN K  93     214.791 126.296 -55.184  1.00117.27      KS11
ATOM  44489  CD  GLN K  93     215.757 127.043 -56.069  1.00117.27      KS11
ATOM  44490  OE1 GLN K  93     216.283 126.491 -57.035  1.00117.27      KS11
ATOM  44491  NE2 GLN K  93     215.998 128.309 -55.746  1.00117.27      KS11
ATOM  44492  C   GLN K  93     213.892 126.247 -58.377  1.00 50.17      KS11
ATOM  44493  O   GLN K  93     214.612 127.109 -58.872  1.00 50.17      KS11
ATOM  44494  N   ALA K  94     213.759 125.030 -58.902  1.00 65.64      KS11
ATOM  44495  CA  ALA K  94     214.456 124.631 -60.122  1.00 65.64      KS11
ATOM  44496  CB  ALA K  94     213.905 123.317 -60.638  1.00 21.10      KS11
ATOM  44497  C   ALA K  94     214.309 125.700 -61.183  1.00 65.64      KS11
ATOM  44498  O   ALA K  94     215.297 126.161 -61.739  1.00 65.64      KS11
ATOM  44499  N   ILE K  95     213.070 126.088 -61.466  1.00 35.36      KS11
ATOM  44500  CA  ILE K  95     212.811 127.125 -62.457  1.00 35.36      KS11
ATOM  44501  CB  ILE K  95     211.379 127.651 -62.346  1.00 24.37      KS11
ATOM  44502  CG2 ILE K  95     211.162 128.782 -63.341  1.00 24.37      KS11
ATOM  44503  CG1 ILE K  95     210.397 126.503 -62.561  1.00 24.37      KS11
ATOM  44504  CD1 ILE K  95     208.945 126.918 -62.450  1.00 24.37      KS11
ATOM  44505  C   ILE K  95     213.760 128.301 -62.240  1.00 35.36      KS11
ATOM  44506  O   ILE K  95     214.368 128.801 -63.179  1.00 35.36      KS11
ATOM  44507  N   ARG K  96     213.877 128.744 -60.995  1.00 49.16      KS11
ATOM  44508  CA  ARG K  96     214.761 129.849 -60.671  1.00 49.16      KS11
ATOM  44509  CB  ARG K  96     214.943 129.957 -59.154  1.00142.21      KS11
ATOM  44510  CG  ARG K  96     214.571 131.310 -58.566  1.00142.21      KS11
ATOM  44511  CD  ARG K  96     213.064 131.486 -58.423  1.00142.21      KS11
ATOM  44512  NE  ARG K  96     212.497 130.617 -57.393  1.00142.21      KS11
ATOM  44513  CZ  ARG K  96     211.222 130.639 -57.014  1.00142.21      KS11
ATOM  44514  NH1 ARG K  96     210.372 131.488 -57.578  1.00142.21      KS11
ATOM  44515  NH2 ARG K  96     210.794 129.810 -56.072  1.00142.21      KS11
ATOM  44516  C   ARG K  96     216.104 129.559 -61.331  1.00 49.16      KS11
ATOM  44517  O   ARG K  96     216.670 130.406 -62.021  1.00 49.16      KS11
ATOM  44518  N   ALA K  97     216.604 128.347 -61.124  1.00 42.99      KS11
ATOM  44519  CA  ALA K  97     217.878 127.941 -61.690  1.00 42.99      KS11
ATOM  44520  CB  ALA K  97     218.175 126.507 -61.324  1.00 80.65      KS11
ATOM  44521  C   ALA K  97     217.871 128.108 -63.201  1.00 42.99      KS11
ATOM  44522  O   ALA K  97     218.605 128.937 -63.730  1.00 42.99      KS11
ATOM  44523  N   LEU K  98     217.047 127.329 -63.897  1.00 45.46      KS11
ATOM  44524  CA  LEU K  98     216.978 127.424 -65.350  1.00 45.46      KS11
ATOM  44525  CB  LEU K  98     215.723 126.759 -65.887  1.00 50.94      KS11
ATOM  44526  CG  LEU K  98     215.638 125.254 -65.715  1.00 50.94      KS11
ATOM  44527  CD1 LEU K  98     214.461 124.736 -66.524  1.00 50.94      KS11
ATOM  44528  CD2 LEU K  98     216.932 124.609 -66.178  1.00 50.94      KS11
ATOM  44529  C   LEU K  98     216.975 128.867 -65.801  1.00 45.46      KS11
ATOM  44530  O   LEU K  98     217.814 129.263 -66.603  1.00 45.46      KS11
ATOM  44531  N   GLN K  99     216.028 129.649 -65.288  1.00 86.29      KS11
ATOM  44532  CA  GLN K  99     215.918 131.058 -65.652  1.00 86.29      KS11
ATOM  44533  CB  GLN K  99     214.954 131.776 -64.712  1.00107.07      KS11
ATOM  44534  CG  GLN K  99     213.502 131.454 -65.013  1.00107.07      KS11
ATOM  44535  CD  GLN K  99     212.540 132.083 -64.032  1.00107.07      KS11
ATOM  44536  OE1 GLN K  99     212.513 131.726 -62.854  1.00107.07      KS11
ATOM  44537  NE2 GLN K  99     211.741 133.027 -64.514  1.00107.07      KS11
ATOM  44538  C   GLN K  99     217.272 131.737 -65.658  1.00 86.29      KS11
ATOM  44539  O   GLN K  99     217.556 132.553 -66.533  1.00 86.29      KS11
ATOM  44540  N   ALA K 100     218.110 131.395 -64.686  1.00 83.26      KS11
ATOM  44541  CA  ALA K 100     219.456 131.949 -64.619  1.00 83.26      KS11
ATOM  44542  CB  ALA K 100     220.009 131.817 -63.217  1.00 56.42      KS11
ATOM  44543  C   ALA K 100     220.311 131.144 -65.597  1.00 83.26      KS11
ATOM  44544  O   ALA K 100     220.459 131.512 -66.767  1.00 83.26      KS11
ATOM  44545  N   SER K 101     220.857 130.038 -65.104  1.00 80.34      KS11
ATOM  44546  CA  SER K 101     221.681 129.142 -65.905  1.00 80.34      KS11
ATOM  44547  CB  SER K 101     220.811 128.032 -66.505  1.00 70.13      KS11
ATOM  44548  OG  SER K 101     219.924 128.540 -67.484  1.00 70.13      KS11
ATOM  44549  C   SER K 101     222.438 129.845 -67.026  1.00 80.34      KS11
ATOM  44550  O   SER K 101     223.595 130.232 -66.866  1.00 80.34      KS11
ATOM  44551  N   GLY K 102     221.776 129.988 -68.165  1.00112.01      KS11
ATOM  44552  CA  GLY K 102     222.376 130.641 -69.308  1.00112.01      KS11
ATOM  44553  C   GLY K 102     221.307 130.705 -70.371  1.00112.01      KS11
ATOM  44554  O   GLY K 102     221.250 131.634 -71.176  1.00112.01      KS11
ATOM  44555  N   LEU K 103     220.445 129.696 -70.348  1.00 72.67      KS11
ATOM  44556  CA  LEU K 103     219.340 129.583 -71.285  1.00 72.67      KS11
ATOM  44557  CB  LEU K 103     218.609 128.272 -71.055  1.00 46.82      KS11
ATOM  44558  CG  LEU K 103     219.494 127.035 -71.016  1.00 46.82      KS11
ATOM  44559  CD1 LEU K 103     218.687 125.825 -70.554  1.00 46.82      KS11
ATOM  44560  CD2 LEU K 103     220.087 126.824 -72.400  1.00 46.82      KS11
ATOM  44561  C   LEU K 103     218.338 130.713 -71.129  1.00 72.67      KS11
ATOM  44562  O   LEU K 103     218.127 131.238 -70.031  1.00 72.67      KS11
ATOM  44563  N   GLN K 104     217.718 131.083 -72.241  1.00 57.70      KS11
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ATOM  44564  CA  GLN K 104     216.712 132.120 -72.224  1.00 57.70      KS11
ATOM  44565  CB  GLN K 104     216.596 132.768 -73.597  1.00111.38      KS11
ATOM  44566  CG  GLN K 104     216.048 134.172 -73.546  1.00111.38      KS11
ATOM  44567  CD  GLN K 104     216.996 135.125 -72.845  1.00111.38      KS11
ATOM  44568  OE1 GLN K 104     218.090 135.400 -73.335  1.00111.38      KS11
ATOM  44569  NE2 GLN K 104     216.583 135.628 -71.688  1.00111.38      KS11
ATOM  44570  C   GLN K 104     215.443 131.345 -71.904  1.00 57.70      KS11
ATOM  44571  O   GLN K 104     215.128 130.374 -72.592  1.00 57.70      KS11
ATOM  44572  N   VAL K 105     214.734 131.737 -70.847  1.00 39.67      KS11
ATOM  44573  CA  VAL K 105     213.503 131.043 -70.481  1.00 39.67      KS11
ATOM  44574  CB  VAL K 105     213.337 130.940 -68.960  1.00 46.57      KS11
ATOM  44575  CG1 VAL K 105     212.038 130.238 -68.633  1.00 46.57      KS11
ATOM  44576  CG2 VAL K 105     214.494 130.174 -68.367  1.00 46.57      KS11
ATOM  44577  C   VAL K 105     212.328 131.807 -71.050  1.00 39.67      KS11
ATOM  44578  O   VAL K 105     211.711 132.614 -70.364  1.00 39.67      KS11
ATOM  44579  N   LYS K 106     212.026 131.537 -72.314  1.00 69.00      KS11
ATOM  44580  CA  LYS K 106     210.944 132.208 -73.018  1.00 69.00      KS11
ATOM  44581  CB  LYS K 106     210.880 131.709 -74.464  1.00169.60      KS11
ATOM  44582  CG  LYS K 106     212.160 131.952 -75.251  1.00169.60      KS11
ATOM  44583  CD  LYS K 106     212.529 133.431 -75.271  1.00169.60      KS11
ATOM  44584  CE  LYS K 106     213.828 133.671 -76.026  1.00169.60      KS11
ATOM  44585  NZ  LYS K 106     214.204 135.113 -76.049  1.00169.60      KS11
ATOM  44586  C   LYS K 106     209.574 132.076 -72.368  1.00 69.00      KS11
ATOM  44587  O   LYS K 106     208.747 132.974 -72.495  1.00 69.00      KS11
ATOM  44588  N   SER K 107     209.327 130.974 -71.667  1.00 78.86      KS11
ATOM  44589  CA  SER K 107     208.027 130.786 -71.030  1.00 78.86      KS11
ATOM  44590  CB  SER K 107     206.979 130.447 -72.080  1.00 91.45      KS11
ATOM  44591  OG  SER K 107     207.203 129.140 -72.580  1.00 91.45      KS11
ATOM  44592  C   SER K 107     207.984 129.700 -69.969  1.00 78.86      KS11
ATOM  44593  O   SER K 107     208.889 128.876 -69.843  1.00 78.86      KS11
ATOM  44594  N   ILE K 108     206.896 129.709 -69.212  1.00 46.25      KS11
ATOM  44595  CA  ILE K 108     206.677 128.724 -68.170  1.00 46.25      KS11
ATOM  44596  CB  ILE K 108     207.026 129.272 -66.788  1.00 19.15      KS11
ATOM  44597  CG2 ILE K 108     206.925 128.172 -65.752  1.00 19.15      KS11
ATOM  44598  CG1 ILE K 108     208.446 129.814 -66.800  1.00 19.15      KS11
ATOM  44599  CD1 ILE K 108     208.888 130.370 -65.477  1.00 19.15      KS11
ATOM  44600  C   ILE K 108     205.207 128.359 -68.196  1.00 46.25      KS11
ATOM  44601  O   ILE K 108     204.338 129.220 -68.327  1.00 46.25      KS11
ATOM  44602  N   VAL K 109     204.938 127.070 -68.076  1.00 42.27      KS11
ATOM  44603  CA  VAL K 109     203.581 126.581 -68.099  1.00 42.27      KS11
ATOM  44604  CB  VAL K 109     203.191 126.179 -69.511  1.00 40.31      KS11
ATOM  44605  CG1 VAL K 109     201.920 125.380 -69.487  1.00 40.31      KS11
ATOM  44606  CG2 VAL K 109     203.015 127.406 -70.353  1.00 40.31      KS11
ATOM  44607  C   VAL K 109     203.426 125.372 -67.201  1.00 42.27      KS11
ATOM  44608  O   VAL K 109     204.217 124.430 -67.273  1.00 42.27      KS11
ATOM  44609  N   ASP K 110     202.411 125.408 -66.345  1.00 59.61      KS11
ATOM  44610  CA  ASP K 110     202.139 124.289 -65.464  1.00 59.61      KS11
ATOM  44611  CB  ASP K 110     201.434 124.757 -64.194  1.00102.91      KS11
ATOM  44612  CG  ASP K 110     200.968 123.599 -63.328  1.00102.91      KS11
ATOM  44613  OD1 ASP K 110     200.119 122.804 -63.788  1.00102.91      KS11
ATOM  44614  OD2 ASP K 110     201.452 123.482 -62.185  1.00102.91      KS11
ATOM  44615  C   ASP K 110     201.231 123.345 -66.233  1.00 59.61      KS11
ATOM  44616  O   ASP K 110     200.118 123.714 -66.606  1.00 59.61      KS11
ATOM  44617  N   ASP K 111     201.709 122.135 -66.490  1.00 42.84      KS11
ATOM  44618  CA  ASP K 111     200.910 121.162 -67.211  1.00 42.84      KS11
ATOM  44619  CB  ASP K 111     201.555 120.831 -68.558  1.00140.26      KS11
ATOM  44620  CG  ASP K 111     200.691 119.918 -69.410  1.00140.26      KS11
ATOM  44621  OD1 ASP K 111     199.494 120.225 -69.585  1.00140.26      KS11
ATOM  44622  OD2 ASP K 111     201.207 118.897 -69.912  1.00140.26      KS11
ATOM  44623  C   ASP K 111     200.787 119.907 -66.366  1.00 42.84      KS11
ATOM  44624  O   ASP K 111     200.765 118.793 -66.892  1.00 42.84      KS11
ATOM  44625  N   THR K 112     200.701 120.093 -65.050  1.00 38.19      KS11
ATOM  44626  CA  THR K 112     200.585 118.969 -64.126  1.00 38.19      KS11
ATOM  44627  CB  THR K 112     200.489 119.431 -62.674  1.00 34.93      KS11
ATOM  44628  OG1 THR K 112     201.543 120.355 -62.388  1.00 34.93      KS11
ATOM  44629  CG2 THR K 112     200.618 118.238 -61.750  1.00 34.93      KS11
ATOM  44630  C   THR K 112     199.350 118.128 -64.406  1.00 38.19      KS11
ATOM  44631  O   THR K 112     198.232 118.632 -64.417  1.00 38.19      KS11
ATOM  44632  N   PRO K 113     199.535 116.824 -64.612  1.00 49.19      KS11
ATOM  44633  CD  PRO K 113     200.772 116.058 -64.383  1.00 74.23      KS11
ATOM  44634  CA  PRO K 113     198.413 115.930 -64.890  1.00 49.19      KS11
ATOM  44635  CB  PRO K 113     199.102 114.593 -65.090  1.00 74.23      KS11
ATOM  44636  CG  PRO K 113     200.242 114.676 -64.103  1.00 74.23      KS11
ATOM  44637  C   PRO K 113     197.389 115.880 -63.750  1.00 49.19      KS11
ATOM  44638  O   PRO K 113     197.743 115.889 -62.575  1.00 49.19      KS11
ATOM  44639  N   VAL K 114     196.114 115.821 -64.108  1.00 52.64      KS11
ATOM  44640  CA  VAL K 114     195.047 115.745 -63.121  1.00 52.64      KS11
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ATOM  44641  CB  VAL K 114     194.521 117.115 -62.748  1.00 40.67      KS11
ATOM  44642  CG1 VAL K 114     194.233 117.922 -64.013  1.00 40.67      KS11
ATOM  44643  CG2 VAL K 114     193.254 116.962 -61.938  1.00 40.67      KS11
ATOM  44644  C   VAL K 114     193.905 114.979 -63.742  1.00 52.64      KS11
ATOM  44645  O   VAL K 114     193.456 115.304 -64.833  1.00 52.64      KS11
ATOM  44646  N   PRO K 115     193.413 113.950 -63.056  1.00 42.94      KS11
ATOM  44647  CD  PRO K 115     193.836 113.394 -61.760  1.00 33.20      KS11
ATOM  44648  CA  PRO K 115     192.309 113.177 -63.621  1.00 42.94      KS11
ATOM  44649  CB  PRO K 115     192.359 111.892 -62.818  1.00 33.20      KS11
ATOM  44650  CG  PRO K 115     192.731 112.401 -61.454  1.00 33.20      KS11
ATOM  44651  C   PRO K 115     191.014 113.905 -63.401  1.00 42.94      KS11
ATOM  44652  O   PRO K 115     190.934 114.772 -62.539  1.00 42.94      KS11
ATOM  44653  N   HIS K 116     190.003 113.568 -64.184  1.00 35.81      KS11
ATOM  44654  CA  HIS K 116     188.707 114.178 -63.980  1.00 35.81      KS11
ATOM  44655  CB  HIS K 116     188.078 114.524 -65.316  1.00 43.08      KS11
ATOM  44656  CG  HIS K 116     188.797 115.630 -66.020  1.00 43.08      KS11
ATOM  44657  CD2 HIS K 116     188.758 116.054 -67.306  1.00 43.08      KS11
ATOM  44658  ND1 HIS K 116     189.665 116.474 -65.362  1.00 43.08      KS11
ATOM  44659  CE1 HIS K 116     190.130 117.374 -66.212  1.00 43.08      KS11
ATOM  44660  NE2 HIS K 116     189.595 117.141 -67.397  1.00 43.08      KS11
ATOM  44661  C   HIS K 116     187.910 113.143 -63.188  1.00 35.81      KS11
ATOM  44662  O   HIS K 116     186.703 112.946 -63.379  1.00 35.81      KS11
ATOM  44663  N   ASN K 117     188.659 112.499 -62.286  1.00 52.43      KS11
ATOM  44664  CA  ASN K 117     188.216 111.451 -61.371  1.00 52.43      KS11
ATOM  44665  CB  ASN K 117     186.898 111.834 -60.735  1.00 81.73      KS11
ATOM  44666  CG  ASN K 117     187.097 112.805 -59.620  1.00 81.73      KS11
ATOM  44667  OD1 ASN K 117     187.564 112.434 -58.541  1.00 81.73      KS11
ATOM  44668  ND2 ASN K 117     186.788 114.068 -59.874  1.00 81.73      KS11
ATOM  44669  C   ASN K 117     188.149 110.081 -61.994  1.00 52.43      KS11
ATOM  44670  O   ASN K 117     187.119 109.656 -62.501  1.00 52.43      KS11
ATOM  44671  N   GLY K 118     189.271 109.381 -61.936  1.00 36.68      KS11
ATOM  44672  CA  GLY K 118     189.317 108.070 -62.531  1.00 36.68      KS11
ATOM  44673  C   GLY K 118     189.795 106.947 -61.645  1.00 36.68      KS11
ATOM  44674  O   GLY K 118     188.993 106.171 -61.123  1.00 36.68      KS11
ATOM  44675  N   CYS K 119     191.101 106.837 -61.460  1.00 31.64      KS11
ATOM  44676  CA  CYS K 119     191.603 105.740 -60.653  1.00 31.64      KS11
ATOM  44677  CB  CYS K 119     193.003 105.350 -61.129  1.00 58.28      KS11
ATOM  44678  SG  CYS K 119     193.031 104.726 -62.829  1.00 58.28      KS11
ATOM  44679  C   CYS K 119     191.602 106.014 -59.164  1.00 31.64      KS11
ATOM  44680  O   CYS K 119     191.985 107.105 -58.724  1.00 31.64      KS11
ATOM  44681  N   ARG K 120     191.150 105.027 -58.389  1.00 26.40      KS11
ATOM  44682  CA  ARG K 120     191.128 105.188 -56.941  1.00 26.40      KS11
ATOM  44683  CB  ARG K 120     190.433 104.004 -56.256  1.00 42.25      KS11
ATOM  44684  CG  ARG K 120     190.955 103.755 -54.839  1.00 42.25      KS11
ATOM  44685  CD  ARG K 120     190.132 102.776 -54.019  1.00 42.25      KS11
ATOM  44686  NE  ARG K 120     188.915 103.402 -53.514  1.00 42.25      KS11
ATOM  44687  CZ  ARG K 120     188.253 103.009 -52.427  1.00 42.25      KS11
ATOM  44688  NH1 ARG K 120     188.674 101.977 -51.703  1.00 42.25      KS11
ATOM  44689  NH2 ARG K 120     187.172 103.669 -52.045  1.00 42.25      KS11
ATOM  44690  C   ARG K 120     192.562 105.308 -56.432  1.00 26.40      KS11
ATOM  44691  O   ARG K 120     193.377 104.400 -56.601  1.00 26.40      KS11
ATOM  44692  N   PRO K 121     192.901 106.443 -55.821  1.00 28.58      KS11
ATOM  44693  CD  PRO K 121     192.075 107.605 -55.486  1.00 35.56      KS11
ATOM  44694  CA  PRO K 121     194.261 106.607 -55.309  1.00 28.58      KS11
ATOM  44695  CB  PRO K 121     194.263 108.036 -54.821  1.00 35.56      KS11
ATOM  44696  CG  PRO K 121     192.854 108.197 -54.355  1.00 35.56      KS11
ATOM  44697  C   PRO K 121     194.485 105.619 -54.179  1.00 28.58      KS11
ATOM  44698  O   PRO K 121     193.530 105.095 -53.615  1.00 28.58      KS11
ATOM  44699  N   LYS K 122     195.741 105.347 -53.850  1.00 28.15      KS11
ATOM  44700  CA  LYS K 122     196.018 104.413 -52.774  1.00 28.15      KS11
ATOM  44701  CB  LYS K 122     197.482 103.984 -52.799  1.00 73.86      KS11
ATOM  44702  CG  LYS K 122     198.403 104.992 -53.474  1.00 73.86      KS11
ATOM  44703  CD  LYS K 122     199.867 104.640 -53.259  1.00 73.86      KS11
ATOM  44704  CE  LYS K 122     200.181 103.212 -53.681  1.00 73.86      KS11
ATOM  44705  NZ  LYS K 122     201.597 102.852 -53.378  1.00 73.86      KS11
ATOM  44706  C   LYS K 122     195.706 105.129 -51.478  1.00 28.15      KS11
ATOM  44707  O   LYS K 122     195.651 106.363 -51.437  1.00 28.15      KS11
ATOM  44708  N   LYS K 123     195.482 104.345 -50.432  1.00 19.62      KS11
ATOM  44709  CA  LYS K 123     195.174 104.872 -49.112  1.00 19.62      KS11
ATOM  44710  CB  LYS K 123     195.497 103.810 -48.065  1.00 50.42      KS11
ATOM  44711  CG  LYS K 123     195.206 104.179 -46.632  1.00 50.42      KS11
ATOM  44712  CD  LYS K 123     195.465 102.962 -45.769  1.00 50.42      KS11
ATOM  44713  CE  LYS K 123     195.306 103.245 -44.291  1.00 50.42      KS11
ATOM  44714  NZ  LYS K 123     195.630 102.035 -43.474  1.00 50.42      KS11
ATOM  44715  C   LYS K 123     195.985 106.138 -48.862  1.00 19.62      KS11
ATOM  44716  O   LYS K 123     195.434 107.161 -48.469  1.00 19.62      KS11
ATOM  44717  N   LYS K 124     197.294 106.064 -49.094  1.00 38.24      KS11
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ATOM  44718  CA  LYS K 124     198.173 107.215 -48.911  1.00 38.24      KS11
ATOM  44719  CB  LYS K 124     199.358 107.143 -49.884  1.00132.36      KS11
ATOM  44720  CG  LYS K 124     200.725 106.939 -49.247  1.00132.36      KS11
ATOM  44721  CD  LYS K 124     201.108 108.109 -48.356  1.00132.36      KS11
ATOM  44722  CE  LYS K 124     202.498 107.918 -47.765  1.00132.36      KS11
ATOM  44723  NZ  LYS K 124     202.825 108.884 -46.679  1.00132.36      KS11
ATOM  44724  C   LYS K 124     197.386 108.486 -49.187  1.00 38.24      KS11
ATOM  44725  O   LYS K 124     197.266 109.343 -48.319  1.00 38.24      KS11
ATOM  44726  N   PHE K 125     196.812 108.576 -50.386  1.00 47.56      KS11
ATOM  44727  CA  PHE K 125     196.065 109.762 -50.792  1.00 47.56      KS11
ATOM  44728  CB  PHE K 125     196.598 110.280 -52.127  1.00 54.49      KS11
ATOM  44729  CG  PHE K 125     198.039 109.950 -52.369  1.00 54.49      KS11
ATOM  44730  CD1 PHE K 125     198.396 108.745 -52.953  1.00 54.49      KS11
ATOM  44731  CD2 PHE K 125     199.040 110.829 -51.986  1.00 54.49      KS11
ATOM  44732  CE1 PHE K 125     199.727 108.422 -53.149  1.00 54.49      KS11
ATOM  44733  CE2 PHE K 125     200.365 110.515 -52.176  1.00 54.49      KS11
ATOM  44734  CZ  PHE K 125     200.711 109.308 -52.759  1.00 54.49      KS11
ATOM  44735  C   PHE K 125     194.549 109.649 -50.904  1.00 47.56      KS11
ATOM  44736  O   PHE K 125     193.938 110.460 -51.597  1.00 47.56      KS11
ATOM  44737  N   ARG K 126     193.942 108.668 -50.238  1.00 55.29      KS11
ATOM  44738  CA  ARG K 126     192.487 108.494 -50.272  1.00 55.29      KS11
ATOM  44739  CB  ARG K 126     192.084 107.216 -49.533  1.00 97.91      KS11
ATOM  44740  CG  ARG K 126     191.883 105.987 -50.404  1.00 97.91      KS11
ATOM  44741  CD  ARG K 126     190.443 105.512 -50.316  1.00 97.91      KS11
ATOM  44742  NE  ARG K 126     189.545 106.415 -51.024  1.00 97.91      KS11
ATOM  44743  CZ  ARG K 126     188.222 106.348 -50.969  1.00 97.91      KS11
ATOM  44744  NH1 ARG K 126     187.634 105.420 -50.229  1.00 97.91      KS11
ATOM  44745  NH2 ARG K 126     187.487 107.200 -51.670  1.00 97.91      KS11
ATOM  44746  C   ARG K 126     191.776 109.673 -49.615  1.00 55.29      KS11
ATOM  44747  O   ARG K 126     192.153 110.821 -49.810  1.00 55.29      KS11
ATOM  44748  N   LYS K 127     190.740 109.374 -48.834  1.00201.04      KS11
ATOM  44749  CA  LYS K 127     189.966 110.395 -48.131  1.00201.04      KS11
ATOM  44750  CB  LYS K 127     190.801 110.996 -46.997  1.00126.45      KS11
ATOM  44751  CG  LYS K 127     191.035 110.044 -45.839  1.00126.45      KS11
ATOM  44752  CD  LYS K 127     189.726 109.706 -45.145  1.00126.45      KS11
ATOM  44753  CE  LYS K 127     189.937 108.690 -44.037  1.00126.45      KS11
ATOM  44754  NZ  LYS K 127     190.909 109.168 -43.017  1.00126.45      KS11
ATOM  44755  C   LYS K 127     189.452 111.510 -49.034  1.00201.04      KS11
ATOM  44756  O   LYS K 127     190.222 112.341 -49.517  1.00201.04      KS11
ATOM  44757  N   ALA K 128     188.139 111.525 -49.246  1.00201.26      KS11
ATOM  44758  CA  ALA K 128     187.499 112.533 -50.087  1.00201.26      KS11
ATOM  44759  CB  ALA K 128     187.892 112.314 -51.547  1.00171.99      KS11
ATOM  44760  C   ALA K 128     185.970 112.521 -49.941  1.00201.26      KS11
ATOM  44761  O   ALA K 128     185.317 113.557 -50.087  1.00201.26      KS11
ATOM  44762  N   SER K 129     185.414 111.343 -49.654  1.00201.26      KS11
ATOM  44763  CA  SER K 129     183.971 111.151 -49.479  1.00201.26      KS11
ATOM  44764  CB  SER K 129     183.502 111.769 -48.153  1.00201.26      KS11
ATOM  44765  OG  SER K 129     183.638 113.181 -48.152  1.00201.26      KS11
ATOM  44766  C   SER K 129     183.124 111.703 -50.625  1.00201.26      KS11
ATOM  44767  O   SER K 129     183.702 112.153 -51.637  1.00201.26      KS11
ATOM  44768  OXT SER K 129     181.881 111.667 -50.497  1.00201.26      KS11
TER   44768       SER K 129                                             KS11
ATOM  44769  CB  PRO L   5     149.715 101.710 -25.126  1.00 10.65      LS12
ATOM  44770  CG  PRO L   5     150.721 101.863 -23.980  1.00 10.65      LS12
ATOM  44771  C   PRO L   5     148.481 103.622 -26.062  1.00 26.73      LS12
ATOM  44772  O   PRO L   5     147.894 104.136 -25.121  1.00 26.73      LS12
ATOM  44773  N   PRO L   5     150.571 103.973 -24.992  1.00 26.73      LS12
ATOM  44774  CD  PRO L   5     150.746 103.366 -23.660  1.00 10.65      LS12
ATOM  44775  CA  PRO L   5     149.846 103.033 -25.866  1.00 26.73      LS12
ATOM  44776  N   THR L   6     147.967 103.562 -27.278  1.00 10.03      LS12
ATOM  44777  CA  THR L   6     146.646 104.093 -27.507  1.00 10.03      LS12
ATOM  44778  CB  THR L   6     146.284 104.077 -28.977  1.00 24.44      LS12
ATOM  44779  OG1 THR L   6     146.146 102.723 -29.415  1.00 24.44      LS12
ATOM  44780  CG2 THR L   6     147.342 104.776 -29.780  1.00 24.44      LS12
ATOM  44781  C   THR L   6     145.684 103.178 -26.757  1.00 10.03      LS12
ATOM  44782  O   THR L   6     145.982 102.001 -26.524  1.00 10.03      LS12
ATOM  44783  N   ILE L   7     144.537 103.719 -26.362  1.00 20.05      LS12
ATOM  44784  CA  ILE L   7     143.578 102.918 -25.640  1.00 20.05      LS12
ATOM  44785  CB  ILE L   7     142.240 103.637 -25.497  1.00 14.33      LS12
ATOM  44786  CG2 ILE L   7     141.142 102.649 -25.152  1.00 14.33      LS12
ATOM  44787  CG1 ILE L   7     142.347 104.675 -24.392  1.00 14.33      LS12
ATOM  44788  CD1 ILE L   7     142.708 104.106 -23.035  1.00 14.33      LS12
ATOM  44789  C   ILE L   7     143.380 101.640 -26.398  1.00 20.05      LS12
ATOM  44790  O   ILE L   7     143.441 100.569 -25.816  1.00 20.05      LS12
ATOM  44791  N   ASN L   8     143.171 101.756 -27.705  1.00 14.36      LS12
ATOM  44792  CA  ASN L   8     142.953 100.579 -28.535  1.00 14.36      LS12
ATOM  44793  CB  ASN L   8     142.985 100.940 -30.016  1.00 28.54      LS12
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ATOM  44794  CG  ASN L   8     142.250  99.929 -30.871  1.00 28.54      LS12
ATOM  44795  OD1 ASN L   8     141.100  99.616 -30.607  1.00 28.54      LS12
ATOM  44796  ND2 ASN L   8     142.909  99.419 -31.903  1.00 28.54      LS12
ATOM  44797  C   ASN L   8     144.038  99.566 -28.241  1.00 14.36      LS12
ATOM  44798  O   ASN L   8     143.751  98.407 -27.920  1.00 14.36      LS12
ATOM  44799  N   GLN L   9     145.289 100.015 -28.347  1.00 19.88      LS12
ATOM  44800  CA  GLN L   9     146.427  99.155 -28.082  1.00 19.88      LS12
ATOM  44801  CB  GLN L   9     147.721  99.954 -28.128  1.00 30.07      LS12
ATOM  44802  CG  GLN L   9     147.986 100.514 -29.509  1.00 30.07      LS12
ATOM  44803  CD  GLN L   9     149.293 101.264 -29.607  1.00 30.07      LS12
ATOM  44804  OE1 GLN L   9     149.545 102.205 -28.858  1.00 30.07      LS12
ATOM  44805  NE2 GLN L   9     150.131 100.858 -30.546  1.00 30.07      LS12
ATOM  44806  C   GLN L   9     146.222  98.547 -26.720  1.00 19.88      LS12
ATOM  44807  O   GLN L   9     146.287  97.341 -26.568  1.00 19.88      LS12
ATOM  44808  N   LEU L  10     145.938  99.375 -25.727  1.00 13.62      LS12
ATOM  44809  CA  LEU L  10     145.708  98.861 -24.383  1.00 13.62      LS12
ATOM  44810  CB  LEU L  10     145.336  99.997 -23.443  1.00 38.20      LS12
ATOM  44811  CG  LEU L  10     146.555 100.542 -22.715  1.00 38.20      LS12
ATOM  44812  CD1 LEU L  10     146.160 101.755 -21.900  1.00 38.20      LS12
ATOM  44813  CD2 LEU L  10     147.143  99.443 -21.831  1.00 38.20      LS12
ATOM  44814  C   LEU L  10     144.601  97.826 -24.395  1.00 13.62      LS12
ATOM  44815  O   LEU L  10     144.607  96.874 -23.625  1.00 13.62      LS12
ATOM  44816  N   VAL L  11     143.644  98.014 -25.287  1.00 29.89      LS12
ATOM  44817  CA  VAL L  11     142.545  97.086 -25.376  1.00 29.89      LS12
ATOM  44818  CB  VAL L  11     141.410  97.653 -26.209  1.00 17.11      LS12
ATOM  44819  CG1 VAL L  11     140.367  96.614 -26.430  1.00 17.11      LS12
ATOM  44820  CG2 VAL L  11     140.799  98.817 -25.491  1.00 17.11      LS12
ATOM  44821  C   VAL L  11     143.035  95.821 -26.015  1.00 29.89      LS12
ATOM  44822  O   VAL L  11     142.621  94.736 -25.634  1.00 29.89      LS12
ATOM  44823  N   ARG L  12     143.931  95.959 -26.981  1.00 29.46      LS12
ATOM  44824  CA  ARG L  12     144.452  94.798 -27.678  1.00 29.46      LS12
ATOM  44825  CB  ARG L  12     145.023  95.197 -29.037  1.00 36.73      LS12
ATOM  44826  CG  ARG L  12     144.050  95.861 -29.982  1.00 36.73      LS12
ATOM  44827  CD  ARG L  12     144.571  95.803 -31.406  1.00 36.73      LS12
ATOM  44828  NE  ARG L  12     145.832  96.519 -31.553  1.00 36.73      LS12
ATOM  44829  CZ  ARG L  12     146.900  96.027 -32.172  1.00 36.73      LS12
ATOM  44830  NH1 ARG L  12     146.865  94.810 -32.702  1.00 36.73      LS12
ATOM  44831  NH2 ARG L  12     148.004  96.753 -32.267  1.00 36.73      LS12
ATOM  44832  C   ARG L  12     145.532  94.060 -26.904  1.00 29.46      LS12
ATOM  44833  O   ARG L  12     145.415  92.861 -26.657  1.00 29.46      LS12
ATOM  44834  N   LYS L  13     146.584  94.781 -26.533  1.00 29.14      LS12
ATOM  44835  CA  LYS L  13     147.708  94.200 -25.824  1.00 29.14      LS12
ATOM  44836  CB  LYS L  13     148.958  95.042 -26.053  1.00 81.54      LS12
ATOM  44837  CG  LYS L  13     149.189  95.466 -27.494  1.00 81.54      LS12
ATOM  44838  CD  LYS L  13     149.440  94.293 -28.421  1.00 81.54      LS12
ATOM  44839  CE  LYS L  13     149.819  94.781 -29.818  1.00 81.54      LS12
ATOM  44840  NZ  LYS L  13     149.934  93.675 -30.823  1.00 81.54      LS12
ATOM  44841  C   LYS L  13     147.469  94.068 -24.330  1.00 29.14      LS12
ATOM  44842  O   LYS L  13     147.897  93.099 -23.718  1.00 29.14      LS12
ATOM  44843  N   GLY L  14     146.795  95.032 -23.725  1.00 23.37      LS12
ATOM  44844  CA  GLY L  14     146.574  94.941 -22.288  1.00 23.37      LS12
ATOM  44845  C   GLY L  14     147.846  95.241 -21.515  1.00 23.37      LS12
ATOM  44846  O   GLY L  14     148.871  95.506 -22.119  1.00 23.37      LS12
ATOM  44847  N   ARG L  15     147.799  95.235 -20.191  1.00 27.72      LS12
ATOM  44848  CA  ARG L  15     149.017  95.505 -19.429  1.00 27.72      LS12
ATOM  44849  CB  ARG L  15     148.753  96.512 -18.306  1.00 35.43      LS12
ATOM  44850  CG  ARG L  15     148.520  97.947 -18.764  1.00 35.43      LS12
ATOM  44851  CD  ARG L  15     149.782  98.634 -19.265  1.00 35.43      LS12
ATOM  44852  NE  ARG L  15     149.522 100.054 -19.497  1.00 35.43      LS12
ATOM  44853  CZ  ARG L  15     150.366 100.904 -20.072  1.00 35.43      LS12
ATOM  44854  NH1 ARG L  15     151.557 100.500 -20.488  1.00 35.43      LS12
ATOM  44855  NH2 ARG L  15     150.004 102.162 -20.251  1.00 35.43      LS12
ATOM  44856  C   ARG L  15     149.570  94.212 -18.835  1.00 27.72      LS12
ATOM  44857  O   ARG L  15     148.813  93.353 -18.401  1.00 27.72      LS12
ATOM  44858  N   GLU L  16     150.890  94.081 -18.812  1.00 23.40      LS12
ATOM  44859  CA  GLU L  16     151.533  92.884 -18.293  1.00 23.40      LS12
ATOM  44860  CB  GLU L  16     152.841  92.651 -19.049  1.00176.75      LS12
ATOM  44861  CG  GLU L  16     153.640  91.451 -18.592  1.00176.75      LS12
ATOM  44862  CD  GLU L  16     154.937  91.306 -19.363  1.00176.75      LS12
ATOM  44863  OE1 GLU L  16     155.779  92.226 -19.295  1.00176.75      LS12
ATOM  44864  OE2 GLU L  16     155.114  90.274 -20.043  1.00176.75      LS12
ATOM  44865  C   GLU L  16     151.814  92.978 -16.795  1.00 23.40      LS12
ATOM  44866  O   GLU L  16     152.648  93.781 -16.372  1.00 23.40      LS12
ATOM  44867  N   LYS L  17     151.128  92.160 -15.993  1.00 36.68      LS12
ATOM  44868  CA  LYS L  17     151.337  92.170 -14.547  1.00 36.68      LS12
ATOM  44869  CB  LYS L  17     150.192  91.451 -13.831  1.00131.91      LS12
ATOM  44870  CG  LYS L  17     148.824  92.071 -14.086  1.00131.91      LS12
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ATOM  44871  CD  LYS L  17     147.828  91.724 -12.986  1.00131.91      LS12
ATOM  44872  CE  LYS L  17     148.246  92.326 -11.643  1.00131.91      LS12
ATOM  44873  NZ  LYS L  17     148.388  93.816 -11.685  1.00131.91      LS12
ATOM  44874  C   LYS L  17     152.659  91.480 -14.253  1.00 36.68      LS12
ATOM  44875  O   LYS L  17     152.911  90.388 -14.748  1.00 36.68      LS12
ATOM  44876  N   VAL L  18     153.510  92.108 -13.452  1.00 62.05      LS12
ATOM  44877  CA  VAL L  18     154.814  91.522 -13.156  1.00 62.05      LS12
ATOM  44878  CB  VAL L  18     155.882  92.621 -12.965  1.00201.26      LS12
ATOM  44879  CG1 VAL L  18     157.258  91.990 -12.812  1.00201.26      LS12
ATOM  44880  CG2 VAL L  18     155.862  93.575 -14.149  1.00201.26      LS12
ATOM  44881  C   VAL L  18     154.835  90.606 -11.935  1.00 62.05      LS12
ATOM  44882  O   VAL L  18     154.500  91.023 -10.824  1.00 62.05      LS12
ATOM  44883  N   ARG L  19     155.245  89.357 -12.156  1.00 85.28      LS12
ATOM  44884  CA  ARG L  19     155.335  88.351 -11.097  1.00 85.28      LS12
ATOM  44885  CB  ARG L  19     155.177  86.958 -11.700  1.00201.26      LS12
ATOM  44886  CG  ARG L  19     153.945  86.812 -12.576  1.00201.26      LS12
ATOM  44887  CD  ARG L  19     154.103  85.656 -13.543  1.00201.26      LS12
ATOM  44888  NE  ARG L  19     155.328  85.791 -14.329  1.00201.26      LS12
ATOM  44889  CZ  ARG L  19     155.679  84.979 -15.321  1.00201.26      LS12
ATOM  44890  NH1 ARG L  19     154.896  83.963 -15.660  1.00201.26      LS12
ATOM  44891  NH2 ARG L  19     156.818  85.180 -15.972  1.00201.26      LS12
ATOM  44892  C   ARG L  19     156.696  88.470 -10.419  1.00 85.28      LS12
ATOM  44893  O   ARG L  19     157.703  88.709 -11.079  1.00 85.28      LS12
ATOM  44894  N   LYS L  20     156.731  88.302  -9.103  1.00 82.41      LS12
ATOM  44895  CA  LYS L  20     157.987  88.417  -8.374  1.00 82.41      LS12
ATOM  44896  CB  LYS L  20     157.725  88.912  -6.947  1.00201.26      LS12
ATOM  44897  CG  LYS L  20     157.073  90.284  -6.864  1.00201.26      LS12
ATOM  44898  CD  LYS L  20     156.859  90.713  -5.414  1.00201.26      LS12
ATOM  44899  CE  LYS L  20     156.219  92.095  -5.329  1.00201.26      LS12
ATOM  44900  NZ  LYS L  20     156.016  92.554  -3.922  1.00201.26      LS12
ATOM  44901  C   LYS L  20     158.752  87.100  -8.312  1.00 82.41      LS12
ATOM  44902  O   LYS L  20     158.149  86.031  -8.198  1.00 82.41      LS12
ATOM  44903  N   LYS L  21     160.079  87.183  -8.404  1.00 62.86      LS12
ATOM  44904  CA  LYS L  21     160.937  86.001  -8.317  1.00 62.86      LS12
ATOM  44905  CB  LYS L  21     162.195  86.165  -9.176  1.00201.26      LS12
ATOM  44906  CG  LYS L  21     161.956  86.374 -10.662  1.00201.26      LS12
ATOM  44907  CD  LYS L  21     163.285  86.555 -11.393  1.00201.26      LS12
ATOM  44908  CE  LYS L  21     163.091  86.803 -12.884  1.00201.26      LS12
ATOM  44909  NZ  LYS L  21     164.394  86.976 -13.595  1.00201.26      LS12
ATOM  44910  C   LYS L  21     161.348  85.947  -6.854  1.00 62.86      LS12
ATOM  44911  O   LYS L  21     161.650  86.985  -6.264  1.00 62.86      LS12
ATOM  44912  N   SER L  22     161.362  84.758  -6.263  1.00 58.84      LS12
ATOM  44913  CA  SER L  22     161.741  84.654  -4.859  1.00 58.84      LS12
ATOM  44914  CB  SER L  22     161.372  83.289  -4.282  1.00 49.85      LS12
ATOM  44915  OG  SER L  22     161.723  83.212  -2.907  1.00 49.85      LS12
ATOM  44916  C   SER L  22     163.225  84.860  -4.673  1.00 58.84      LS12
ATOM  44917  O   SER L  22     163.978  84.963  -5.640  1.00 58.84      LS12
ATOM  44918  N   LYS L  23     163.637  84.938  -3.415  1.00 40.25      LS12
ATOM  44919  CA  LYS L  23     165.043  85.090  -3.068  1.00 40.25      LS12
ATOM  44920  CB  LYS L  23     165.296  86.439  -2.385  1.00121.89      LS12
ATOM  44921  CG  LYS L  23     165.658  87.589  -3.323  1.00121.89      LS12
ATOM  44922  CD  LYS L  23     164.558  87.891  -4.328  1.00121.89      LS12
ATOM  44923  CE  LYS L  23     164.955  89.030  -5.260  1.00121.89      LS12
ATOM  44924  NZ  LYS L  23     163.915  89.298  -6.296  1.00121.89      LS12
ATOM  44925  C   LYS L  23     165.327  83.958  -2.097  1.00 40.25      LS12
ATOM  44926  O   LYS L  23     166.323  83.966  -1.398  1.00 40.25      LS12
ATOM  44927  N   VAL L  24     164.438  82.974  -2.064  1.00 39.77      LS12
ATOM  44928  CA  VAL L  24     164.605  81.878  -1.138  1.00 39.77      LS12
ATOM  44929  CB  VAL L  24     163.910  82.187   0.198  1.00 49.15      LS12
ATOM  44930  CG1 VAL L  24     164.203  81.080   1.219  1.00 49.15      LS12
ATOM  44931  CG2 VAL L  24     164.358  83.530   0.707  1.00 49.15      LS12
ATOM  44932  C   VAL L  24     164.095  80.522  -1.599  1.00 39.77      LS12
ATOM  44933  O   VAL L  24     163.064  80.045  -1.132  1.00 39.77      LS12
ATOM  44934  N   PRO L  25     164.777  79.895  -2.554  1.00 25.83      LS12
ATOM  44935  CD  PRO L  25     165.571  80.494  -3.645  1.00 30.14      LS12
ATOM  44936  CA  PRO L  25     164.241  78.585  -2.930  1.00 25.83      LS12
ATOM  44937  CB  PRO L  25     165.063  78.231  -4.149  1.00 30.14      LS12
ATOM  44938  CG  PRO L  25     165.241  79.607  -4.808  1.00 30.14      LS12
ATOM  44939  C   PRO L  25     164.418  77.591  -1.768  1.00 25.83      LS12
ATOM  44940  O   PRO L  25     165.158  76.613  -1.851  1.00 25.83      LS12
ATOM  44941  N   ALA L  26     163.755  77.891  -0.657  1.00 73.78      LS12
ATOM  44942  CA  ALA L  26     163.771  77.040   0.527  1.00 73.78      LS12
ATOM  44943  CB  ALA L  26     163.379  77.856   1.796  1.00 27.19      LS12
ATOM  44944  C   ALA L  26     162.678  76.058   0.172  1.00 73.78      LS12
ATOM  44945  O   ALA L  26     162.412  75.103   0.891  1.00 73.78      LS12
ATOM  44946  N   LEU L  27     162.058  76.338  -0.972  1.00 48.08      LS12
ATOM  44947  CA  LEU L  27     160.954  75.568  -1.531  1.00 48.08      LS12
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ATOM  44948  CB  LEU L  27     161.360  74.104  -1.764  1.00 54.73      LS12
ATOM  44949  CG  LEU L  27     160.344  73.130  -2.386  1.00 54.73      LS12
ATOM  44950  CD1 LEU L  27     161.067  72.113  -3.267  1.00 54.73      LS12
ATOM  44951  CD2 LEU L  27     159.556  72.428  -1.291  1.00 54.73      LS12
ATOM  44952  C   LEU L  27     159.771  75.647  -0.597  1.00 48.08      LS12
ATOM  44953  O   LEU L  27     159.919  75.993   0.578  1.00 48.08      LS12
ATOM  44954  N   LYS L  28     158.594  75.342  -1.131  1.00154.09      LS12
ATOM  44955  CA  LYS L  28     157.371  75.378  -0.348  1.00154.09      LS12
ATOM  44956  CB  LYS L  28     157.431  74.305   0.743  1.00191.45      LS12
ATOM  44957  CG  LYS L  28     156.085  73.846   1.277  1.00191.45      LS12
ATOM  44958  CD  LYS L  28     156.259  72.611   2.145  1.00191.45      LS12
ATOM  44959  CE  LYS L  28     154.928  71.978   2.491  1.00191.45      LS12
ATOM  44960  NZ  LYS L  28     155.125  70.696   3.219  1.00191.45      LS12
ATOM  44961  C   LYS L  28     157.301  76.765   0.271  1.00154.09      LS12
ATOM  44962  O   LYS L  28     156.362  77.093   0.998  1.00154.09      LS12
ATOM  44963  N   GLY L  29     158.310  77.577  -0.037  1.00115.05      LS12
ATOM  44964  CA  GLY L  29     158.386  78.917   0.502  1.00115.05      LS12
ATOM  44965  C   GLY L  29     158.276  78.835   2.007  1.00115.05      LS12
ATOM  44966  O   GLY L  29     158.185  79.855   2.691  1.00115.05      LS12
ATOM  44967  N   ALA L  30     158.294  77.604   2.515  1.00 30.72      LS12
ATOM  44968  CA  ALA L  30     158.179  77.334   3.943  1.00 30.72      LS12
ATOM  44969  CB  ALA L  30     158.672  75.932   4.245  1.00  6.09      LS12
ATOM  44970  C   ALA L  30     158.920  78.345   4.802  1.00 30.72      LS12
ATOM  44971  O   ALA L  30     159.763  79.096   4.326  1.00 30.72      LS12
ATOM  44972  N   PRO L  31     158.598  78.384   6.091  1.00 23.83      LS12
ATOM  44973  CD  PRO L  31     157.492  77.688   6.764  1.00 65.80      LS12
ATOM  44974  CA  PRO L  31     159.259  79.328   6.996  1.00 23.83      LS12
ATOM  44975  CB  PRO L  31     158.405  79.249   8.261  1.00 65.80      LS12
ATOM  44976  CG  PRO L  31     157.073  78.701   7.772  1.00 65.80      LS12
ATOM  44977  C   PRO L  31     160.711  78.924   7.271  1.00 23.83      LS12
ATOM  44978  O   PRO L  31     161.591  79.771   7.414  1.00 23.83      LS12
ATOM  44979  N   PHE L  32     160.940  77.618   7.354  1.00 51.96      LS12
ATOM  44980  CA  PHE L  32     162.260  77.071   7.625  1.00 51.96      LS12
ATOM  44981  CB  PHE L  32     162.437  76.841   9.120  1.00 24.82      LS12
ATOM  44982  CG  PHE L  32     162.141  78.035   9.941  1.00 24.82      LS12
ATOM  44983  CD1 PHE L  32     163.037  79.097   9.987  1.00 24.82      LS12
ATOM  44984  CD2 PHE L  32     160.939  78.128  10.633  1.00 24.82      LS12
ATOM  44985  CE1 PHE L  32     162.742  80.241  10.709  1.00 24.82      LS12
ATOM  44986  CE2 PHE L  32     160.631  79.263  11.357  1.00 24.82      LS12
ATOM  44987  CZ  PHE L  32     161.537  80.325  11.396  1.00 24.82      LS12
ATOM  44988  C   PHE L  32     162.350  75.731   6.939  1.00 51.96      LS12
ATOM  44989  O   PHE L  32     161.348  75.205   6.457  1.00 51.96      LS12
ATOM  44990  N   ARG L  33     163.550  75.169   6.907  1.00 54.24      LS12
ATOM  44991  CA  ARG L  33     163.726  73.863   6.306  1.00 54.24      LS12
ATOM  44992  CB  ARG L  33     163.985  73.992   4.806  1.00 65.34      LS12
ATOM  44993  CG  ARG L  33     163.411  72.841   4.003  1.00 65.34      LS12
ATOM  44994  CD  ARG L  33     162.003  72.505   4.491  1.00 65.34      LS12
ATOM  44995  NE  ARG L  33     161.284  71.617   3.582  1.00 65.34      LS12
ATOM  44996  CZ  ARG L  33     160.610  72.023   2.507  1.00 65.34      LS12
ATOM  44997  NH1 ARG L  33     160.549  73.314   2.192  1.00 65.34      LS12
ATOM  44998  NH2 ARG L  33     159.992  71.133   1.742  1.00 65.34      LS12
ATOM  44999  C   ARG L  33     164.873  73.148   6.988  1.00 54.24      LS12
ATOM  45000  O   ARG L  33     165.867  73.771   7.361  1.00 54.24      LS12
ATOM  45001  N   ARG L  34     164.714  71.842   7.180  1.00 36.43      LS12
ATOM  45002  CA  ARG L  34     165.748  71.043   7.811  1.00 36.43      LS12
ATOM  45003  CB  ARG L  34     165.153  69.875   8.583  1.00 78.20      LS12
ATOM  45004  CG  ARG L  34     166.227  68.997   9.170  1.00 78.20      LS12
ATOM  45005  CD  ARG L  34     165.645  67.809   9.874  1.00 78.20      LS12
ATOM  45006  NE  ARG L  34     164.814  67.011   8.985  1.00 78.20      LS12
ATOM  45007  CZ  ARG L  34     164.155  65.924   9.370  1.00 78.20      LS12
ATOM  45008  NH1 ARG L  34     164.241  65.514  10.632  1.00 78.20      LS12
ATOM  45009  NH2 ARG L  34     163.401  65.258   8.499  1.00 78.20      LS12
ATOM  45010  C   ARG L  34     166.716  70.503   6.775  1.00 36.43      LS12
ATOM  45011  O   ARG L  34     166.326  70.123   5.671  1.00 36.43      LS12
ATOM  45012  N   GLY L  35     167.988  70.480   7.147  1.00 39.96      LS12
ATOM  45013  CA  GLY L  35     169.019  69.986   6.262  1.00 39.96      LS12
ATOM  45014  C   GLY L  35     170.091  69.338   7.105  1.00 39.96      LS12
ATOM  45015  O   GLY L  35     169.976  69.282   8.333  1.00 39.96      LS12
ATOM  45016  N   VAL L  36     171.131  68.840   6.448  1.00 48.75      LS12
ATOM  45017  CA  VAL L  36     172.232  68.203   7.148  1.00 48.75      LS12
ATOM  45018  CB  VAL L  36     172.242  66.708   6.918  1.00 34.97      LS12
ATOM  45019  CG1 VAL L  36     173.273  66.078   7.815  1.00 34.97      LS12
ATOM  45020  CG2 VAL L  36     170.858  66.128   7.188  1.00 34.97      LS12
ATOM  45021  C   VAL L  36     173.540  68.764   6.635  1.00 48.75      LS12
ATOM  45022  O   VAL L  36     173.775  68.806   5.430  1.00 48.75      LS12
ATOM  45023  N   CYS L  37     174.396  69.195   7.549  1.00 53.41      LS12
ATOM  45024  CA  CYS L  37     175.673  69.761   7.148  1.00 53.41      LS12
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ATOM  45025  CB  CYS L  37     176.400  70.320   8.367  1.00 90.28       LS12
ATOM  45026  SG  CYS L  37     175.431  71.492   9.322  1.00 90.28       LS12
ATOM  45027  C   CYS L  37     176.543  68.708   6.482  1.00 53.41       LS12
ATOM  45028  O   CYS L  37     176.627  67.577   6.946  1.00 53.41       LS12
ATOM  45029  N   THR L  38     177.175  69.074   5.378  1.00 64.33       LS12
ATOM  45030  CA  THR L  38     178.064  68.146   4.705  1.00 64.33       LS12
ATOM  45031  CB  THR L  38     177.807  68.107   3.188  1.00 66.13       LS12
ATOM  45032  OG1 THR L  38     178.018  69.407   2.623  1.00 66.13       LS12
ATOM  45033  CG2 THR L  38     176.390  67.667   2.914  1.00 66.13       LS12
ATOM  45034  C   THR L  38     179.486  68.627   4.988  1.00 64.33       LS12
ATOM  45035  O   THR L  38     180.332  67.858   5.436  1.00 64.33       LS12
ATOM  45036  N   VAL L  39     179.738  69.907   4.748  1.00 64.24       LS12
ATOM  45037  CA  VAL L  39     181.054  70.477   5.003  1.00 64.24       LS12
ATOM  45038  CB  VAL L  39     181.787  70.802   3.695  1.00 70.45       LS12
ATOM  45039  CG1 VAL L  39     181.761  69.596   2.788  1.00 70.45       LS12
ATOM  45040  CG2 VAL L  39     181.152  71.992   3.017  1.00 70.45       LS12
ATOM  45041  C   VAL L  39     180.908  71.759   5.809  1.00 64.24       LS12
ATOM  45042  O   VAL L  39     179.867  72.412   5.758  1.00 64.24       LS12
ATOM  45043  N   VAL L  40     181.949  72.122   6.548  1.00 43.57       LS12
ATOM  45044  CA  VAL L  40     181.903  73.331   7.353  1.00 43.57       LS12
ATOM  45045  CB  VAL L  40     181.875  72.985   8.857  1.00 24.06       LS12
ATOM  45046  CG1 VAL L  40     181.722  74.246   9.668  1.00 24.06       LS12
ATOM  45047  CG2 VAL L  40     180.725  72.041   9.160  1.00 24.06       LS12
ATOM  45048  C   VAL L  40     183.098  74.244   7.063  1.00 43.57       LS12
ATOM  45049  O   VAL L  40     183.921  74.496   7.941  1.00 43.57       LS12
ATOM  45050  N   ARG L  41     183.185  74.746   5.832  1.00 30.44       LS12
ATOM  45051  CA  ARG L  41     184.284  75.621   5.446  1.00 30.44       LS12
ATOM  45052  CB  ARG L  41     184.228  75.941   3.950  1.00106.94       LS12
ATOM  45053  CG  ARG L  41     185.538  76.502   3.414  1.00106.94       LS12
ATOM  45054  CD  ARG L  41     185.409  77.159   2.050  1.00106.94       LS12
ATOM  45055  NE  ARG L  41     184.988  76.227   1.009  1.00106.94       LS12
ATOM  45056  CZ  ARG L  41     183.730  75.845   0.805  1.00106.94       LS12
ATOM  45057  NH1 ARG L  41     182.756  76.319   1.569  1.00106.94       LS12
ATOM  45058  NH2 ARG L  41     183.441  74.985  -0.164  1.00106.94       LS12
ATOM  45059  C   ARG L  41     184.331  76.933   6.243  1.00 30.44       LS12
ATOM  45060  O   ARG L  41     183.762  77.054   7.333  1.00 30.44       LS12
ATOM  45061  N   THR L  42     185.031  77.907   5.670  1.00 60.51       LS12
ATOM  45062  CA  THR L  42     185.240  79.222   6.257  1.00 60.51       LS12
ATOM  45063  CB  THR L  42     186.505  79.229   7.145  1.00 92.31       LS12
ATOM  45064  OG1 THR L  42     186.369  78.258   8.187  1.00 92.31       LS12
ATOM  45065  CG2 THR L  42     186.726  80.597   7.758  1.00 92.31       LS12
ATOM  45066  C   THR L  42     185.496  80.148   5.083  1.00 60.51       LS12
ATOM  45067  O   THR L  42     186.641  80.314   4.674  1.00 60.51       LS12
ATOM  45068  N   VAL L  43     184.442  80.746   4.543  1.00 33.19       LS12
ATOM  45069  CA  VAL L  43     184.576  81.634   3.388  1.00 33.19       LS12
ATOM  45070  CB  VAL L  43     183.207  81.854   2.718  1.00 86.95       LS12
ATOM  45071  CG1 VAL L  43     183.374  82.623   1.420  1.00 86.95       LS12
ATOM  45072  CG2 VAL L  43     182.553  80.518   2.443  1.00 86.95       LS12
ATOM  45073  C   VAL L  43     185.198  82.999   3.704  1.00 33.19       LS12
ATOM  45074  O   VAL L  43     185.414  83.335   4.867  1.00 33.19       LS12
ATOM  45075  N   THR L  44     185.489  83.780   2.665  1.00 76.59       LS12
ATOM  45076  CA  THR L  44     186.077  85.107   2.833  1.00 76.59       LS12
ATOM  45077  CB  THR L  44     187.409  85.221   2.107  1.00 57.83       LS12
ATOM  45078  OG1 THR L  44     187.184  85.174   0.693  1.00 57.83       LS12
ATOM  45079  CG2 THR L  44     188.321  84.090   2.512  1.00 57.83       LS12
ATOM  45080  C   THR L  44     185.178  86.213   2.281  1.00 76.59       LS12
ATOM  45081  O   THR L  44     184.432  86.002   1.325  1.00 76.59       LS12
ATOM  45082  N   PRO L  45     185.255  87.417   2.872  1.00 41.27       LS12
ATOM  45083  CD  PRO L  45     185.967  87.692   4.130  1.00 70.28       LS12
ATOM  45084  CA  PRO L  45     184.470  88.587   2.474  1.00 41.27       LS12
ATOM  45085  CB  PRO L  45     184.805  89.611   3.555  1.00 70.28       LS12
ATOM  45086  CG  PRO L  45     185.115  88.772   4.736  1.00 70.28       LS12
ATOM  45087  C   PRO L  45     184.747  89.137   1.074  1.00 41.27       LS12
ATOM  45088  O   PRO L  45     185.758  88.830   0.428  1.00 41.27       LS12
ATOM  45089  N   LYS L  46     183.822  89.989   0.651  1.00 15.63       LS12
ATOM  45090  CA  LYS L  46     183.822  90.656  -0.644  1.00 15.63       LS12
ATOM  45091  CB  LYS L  46     182.359  90.718  -1.135  1.00 76.24       LS12
ATOM  45092  CG  LYS L  46     182.075  91.375  -2.489  1.00 76.24       LS12
ATOM  45093  CD  LYS L  46     180.559  91.479  -2.705  1.00 76.24       LS12
ATOM  45094  CE  LYS L  46     180.153  92.657  -3.587  1.00 76.24       LS12
ATOM  45095  NZ  LYS L  46     180.615  92.540  -4.998  1.00 76.24       LS12
ATOM  45096  C   LYS L  46     184.465  92.064  -0.603  1.00 15.63       LS12
ATOM  45097  O   LYS L  46     185.501  92.273   0.026  1.00 15.63       LS12
ATOM  45098  N   LYS L  47     183.812  93.007  -1.282  1.00 72.28       LS12
ATOM  45099  CA  LYS L  47     184.250  94.388  -1.433  1.00 72.28       LS12
ATOM  45100  CB  LYS L  47     183.037  95.293  -1.673  1.00194.61       LS12
ATOM  45101  CG  LYS L  47     182.432  95.208  -3.064  1.00194.61       LS12
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ATOM  45102  CD  LYS L  47     181.332  96.251  -3.223  1.00194.61      LS12
ATOM  45103  CE  LYS L  47     180.725  96.236  -4.615  1.00194.61      LS12
ATOM  45104  NZ  LYS L  47     179.703  97.309  -4.766  1.00194.61      LS12
ATOM  45105  C   LYS L  47     185.177  94.977  -0.376  1.00 72.28      LS12
ATOM  45106  O   LYS L  47     186.362  94.665  -0.395  1.00 72.28      LS12
ATOM  45107  N   PRO L  48     184.679  95.819   0.559  1.00 52.97      LS12
ATOM  45108  CD  PRO L  48     183.368  96.467   0.756  1.00153.21      LS12
ATOM  45109  CA  PRO L  48     185.637  96.354   1.530  1.00 52.97      LS12
ATOM  45110  CB  PRO L  48     185.078  97.732   1.812  1.00153.21      LS12
ATOM  45111  CG  PRO L  48     183.630  97.429   1.915  1.00153.21      LS12
ATOM  45112  C   PRO L  48     185.806  95.541   2.807  1.00 52.97      LS12
ATOM  45113  O   PRO L  48     186.365  96.026   3.794  1.00 52.97      LS12
ATOM  45114  N   ASN L  49     185.332  94.306   2.790  1.00 54.26      LS12
ATOM  45115  CA  ASN L  49     185.452  93.473   3.963  1.00 54.26      LS12
ATOM  45116  CB  ASN L  49     184.113  92.835   4.284  1.00 58.84      LS12
ATOM  45117  CG  ASN L  49     183.370  93.584   5.351  1.00 58.84      LS12
ATOM  45118  OD1 ASN L  49     182.348  93.120   5.850  1.00 58.84      LS12
ATOM  45119  ND2 ASN L  49     183.881  94.757   5.717  1.00 58.84      LS12
ATOM  45120  C   ASN L  49     186.502  92.388   3.868  1.00 54.26      LS12
ATOM  45121  O   ASN L  49     186.873  91.958   2.772  1.00 54.26      LS12
ATOM  45122  N   SER L  50     186.973  91.957   5.039  1.00 36.01      LS12
ATOM  45123  CA  SER L  50     187.961  90.886   5.168  1.00 36.01      LS12
ATOM  45124  CB  SER L  50     189.381  91.419   4.976  1.00102.89      LS12
ATOM  45125  OG  SER L  50     190.339  90.410   5.260  1.00102.89      LS12
ATOM  45126  C   SER L  50     187.841  90.282   6.551  1.00 36.01      LS12
ATOM  45127  O   SER L  50     187.797  91.015   7.529  1.00 36.01      LS12
ATOM  45128  N   ALA L  51     187.777  88.952   6.616  1.00 51.68      LS12
ATOM  45129  CA  ALA L  51     187.672  88.202   7.875  1.00 51.68      LS12
ATOM  45130  CB  ALA L  51     186.696  88.874   8.826  1.00 19.69      LS12
ATOM  45131  C   ALA L  51     187.213  86.779   7.589  1.00 51.68      LS12
ATOM  45132  O   ALA L  51     186.678  86.501   6.521  1.00 51.68      LS12
ATOM  45133  N   LEU L  52     187.408  85.873   8.536  1.00 52.51      LS12
ATOM  45134  CA  LEU L  52     187.006  84.489   8.312  1.00 52.51      LS12
ATOM  45135  CB  LEU L  52     187.934  83.536   9.065  1.00103.04      LS12
ATOM  45136  CG  LEU L  52     189.409  83.587   8.676  1.00103.04      LS12
ATOM  45137  CD1 LEU L  52     190.167  82.523   9.451  1.00103.04      LS12
ATOM  45138  CD2 LEU L  52     189.559  83.372   7.176  1.00103.04      LS12
ATOM  45139  C   LEU L  52     185.572  84.212   8.722  1.00 52.51      LS12
ATOM  45140  O   LEU L  52     185.287  84.023   9.902  1.00 52.51      LS12
ATOM  45141  N   ARG L  53     184.664  84.187   7.753  1.00 42.15      LS12
ATOM  45142  CA  ARG L  53     183.264  83.906   8.050  1.00 42.15      LS12
ATOM  45143  CB  ARG L  53     182.372  84.447   6.928  1.00 30.73      LS12
ATOM  45144  CG  ARG L  53     181.582  85.694   7.309  1.00 30.73      LS12
ATOM  45145  CD  ARG L  53     182.196  86.963   6.780  1.00 30.73      LS12
ATOM  45146  NE  ARG L  53     182.275  87.992   7.811  1.00 30.73      LS12
ATOM  45147  CZ  ARG L  53     182.481  89.277   7.547  1.00 30.73      LS12
ATOM  45148  NH1 ARG L  53     182.611  89.670   6.287  1.00 30.73      LS12
ATOM  45149  NH2 ARG L  53     182.600  90.159   8.533  1.00 30.73      LS12
ATOM  45150  C   ARG L  53     183.068  82.394   8.211  1.00 42.15      LS12
ATOM  45151  O   ARG L  53     183.824  81.613   7.644  1.00 42.15      LS12
ATOM  45152  N   LYS L  54     182.071  81.980   8.987  1.00 47.22      LS12
ATOM  45153  CA  LYS L  54     181.817  80.552   9.196  1.00 47.22      LS12
ATOM  45154  CB  LYS L  54     181.659  80.246  10.687  1.00 58.64      LS12
ATOM  45155  CG  LYS L  54     182.961  80.155  11.470  1.00 58.64      LS12
ATOM  45156  CD  LYS L  54     183.755  81.454  11.459  1.00 58.64      LS12
ATOM  45157  CE  LYS L  54     185.027  81.300  12.291  1.00 58.64      LS12
ATOM  45158  NZ  LYS L  54     186.009  82.421  12.150  1.00 58.64      LS12
ATOM  45159  C   LYS L  54     180.578  80.057   8.455  1.00 47.22      LS12
ATOM  45160  O   LYS L  54     179.451  80.382   8.827  1.00 47.22      LS12
ATOM  45161  N   VAL L  55     180.782  79.244   7.424  1.00 55.27      LS12
ATOM  45162  CA  VAL L  55     179.662  78.738   6.644  1.00 55.27      LS12
ATOM  45163  CB  VAL L  55     179.797  79.173   5.186  1.00 36.44      LS12
ATOM  45164  CG1 VAL L  55     178.448  79.561   4.643  1.00 36.44      LS12
ATOM  45165  CG2 VAL L  55     180.732  80.342   5.087  1.00 36.44      LS12
ATOM  45166  C   VAL L  55     179.501  77.218   6.699  1.00 55.27      LS12
ATOM  45167  O   VAL L  55     180.272  76.523   7.368  1.00 55.27      LS12
ATOM  45168  N   ALA L  56     178.482  76.716   6.001  1.00 48.66      LS12
ATOM  45169  CA  ALA L  56     178.187  75.281   5.950  1.00 48.66      LS12
ATOM  45170  CB  ALA L  56     177.461  74.839   7.231  1.00 18.96      LS12
ATOM  45171  C   ALA L  56     177.335  74.908   4.745  1.00 48.66      LS12
ATOM  45172  O   ALA L  56     176.339  75.573   4.454  1.00 48.66      LS12
ATOM  45173  N   LYS L  57     177.736  73.858   4.033  1.00 66.17      LS12
ATOM  45174  CA  LYS L  57     176.949  73.388   2.902  1.00 66.17      LS12
ATOM  45175  CB  LYS L  57     177.789  72.555   1.929  1.00 89.59      LS12
ATOM  45176  CG  LYS L  57     178.981  73.293   1.303  1.00 89.59      LS12
ATOM  45177  CD  LYS L  57     178.594  74.518   0.458  1.00 89.59      LS12
ATOM  45178  CE  LYS L  57     179.837  75.202  -0.156  1.00 89.59      LS12
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ATOM  45179  NZ  LYS L  57     179.554  76.469  -0.905  1.00 89.59      LS12
ATOM  45180  C   LYS L  57     175.915  72.515   3.605  1.00 66.17      LS12
ATOM  45181  O   LYS L  57     176.228  71.839   4.593  1.00 66.17      LS12
ATOM  45182  N   VAL L  58     174.683  72.537   3.120  1.00 35.14      LS12
ATOM  45183  CA  VAL L  58     173.642  71.774   3.768  1.00 35.14      LS12
ATOM  45184  CB  VAL L  58     172.670  72.712   4.500  1.00 39.71      LS12
ATOM  45185  CG1 VAL L  58     171.918  71.941   5.548  1.00 39.71      LS12
ATOM  45186  CG2 VAL L  58     173.413  73.880   5.122  1.00 39.71      LS12
ATOM  45187  C   VAL L  58     172.846  70.956   2.771  1.00 35.14      LS12
ATOM  45188  O   VAL L  58     172.586  71.407   1.655  1.00 35.14      LS12
ATOM  45189  N   ARG L  59     172.469  69.747   3.177  1.00 55.52      LS12
ATOM  45190  CA  ARG L  59     171.673  68.849   2.346  1.00 55.52      LS12
ATOM  45191  CB  ARG L  59     172.093  67.395   2.576  1.00194.97      LS12
ATOM  45192  CG  ARG L  59     171.417  66.380   1.662  1.00194.97      LS12
ATOM  45193  CD  ARG L  59     172.040  66.398   0.279  1.00194.97      LS12
ATOM  45194  NE  ARG L  59     173.482  66.173   0.348  1.00194.97      LS12
ATOM  45195  CZ  ARG L  59     174.301  66.220  -0.696  1.00194.97      LS12
ATOM  45196  NH1 ARG L  59     173.825  66.483  -1.905  1.00194.97      LS12
ATOM  45197  NH2 ARG L  59     175.601  66.016  -0.530  1.00194.97      LS12
ATOM  45198  C   ARG L  59     170.257  69.046   2.855  1.00 55.52      LS12
ATOM  45199  O   ARG L  59     169.908  68.530   3.913  1.00 55.52      LS12
ATOM  45200  N   LEU L  60     169.446  69.801   2.120  1.00 66.98      LS12
ATOM  45201  CA  LEU L  60     168.072  70.064   2.542  1.00 66.98      LS12
ATOM  45202  CB  LEU L  60     167.532  71.343   1.889  1.00 53.19      LS12
ATOM  45203  CG  LEU L  60     167.662  72.668   2.652  1.00 53.19      LS12
ATOM  45204  CD1 LEU L  60     167.205  72.469   4.092  1.00 53.19      LS12
ATOM  45205  CD2 LEU L  60     169.095  73.169   2.611  1.00 53.19      LS12
ATOM  45206  C   LEU L  60     167.091  68.934   2.279  1.00 66.98      LS12
ATOM  45207  O   LEU L  60     167.255  68.136   1.354  1.00 66.98      LS12
ATOM  45208  N   THR L  61     166.066  68.870   3.119  1.00 77.58      LS12
ATOM  45209  CA  THR L  61     165.048  67.857   2.960  1.00 77.58      LS12
ATOM  45210  CB  THR L  61     164.112  67.792   4.163  1.00 81.49      LS12
ATOM  45211  OG1 THR L  61     163.378  69.017   4.258  1.00 81.49      LS12
ATOM  45212  CG2 THR L  61     164.905  67.573   5.439  1.00 81.49      LS12
ATOM  45213  C   THR L  61     164.254  68.323   1.765  1.00 77.58      LS12
ATOM  45214  O   THR L  61     163.628  67.522   1.077  1.00 77.58      LS12
ATOM  45215  N   SER L  62     164.289  69.630   1.516  1.00 44.65      LS12
ATOM  45216  CA  SER L  62     163.567  70.189   0.379  1.00 44.65      LS12
ATOM  45217  CB  SER L  62     163.525  71.726   0.462  1.00 63.00      LS12
ATOM  45218  OG  SER L  62     164.804  72.323   0.341  1.00 63.00      LS12
ATOM  45219  C   SER L  62     164.222  69.727  -0.927  1.00 44.65      LS12
ATOM  45220  O   SER L  62     163.921  70.233  -2.012  1.00 44.65      LS12
ATOM  45221  N   GLY L  63     165.115  68.748  -0.806  1.00 89.37      LS12
ATOM  45222  CA  GLY L  63     165.803  68.219  -1.965  1.00 89.37      LS12
ATOM  45223  C   GLY L  63     166.784  69.216  -2.538  1.00 89.37      LS12
ATOM  45224  O   GLY L  63     166.966  69.288  -3.750  1.00 89.37      LS12
ATOM  45225  N   TYR L  64     167.414  69.993  -1.663  1.00102.18      LS12
ATOM  45226  CA  TYR L  64     168.387  70.989  -2.090  1.00102.18      LS12
ATOM  45227  CB  TYR L  64     167.833  72.395  -1.881  1.00 72.93      LS12
ATOM  45228  CG  TYR L  64     167.099  72.968  -3.073  1.00 72.93      LS12
ATOM  45229  CD1 TYR L  64     165.806  72.553  -3.398  1.00 72.93      LS12
ATOM  45230  CE1 TYR L  64     165.114  73.134  -4.468  1.00 72.93      LS12
ATOM  45231  CD2 TYR L  64     167.685  73.968  -3.851  1.00 72.93      LS12
ATOM  45232  CE2 TYR L  64     167.008  74.552  -4.919  1.00 72.93      LS12
ATOM  45233  CZ  TYR L  64     165.727  74.136  -5.219  1.00 72.93      LS12
ATOM  45234  OH  TYR L  64     165.063  74.748  -6.254  1.00 72.93      LS12
ATOM  45235  C   TYR L  64     169.725  70.858  -1.365  1.00102.18      LS12
ATOM  45236  O   TYR L  64     169.813  70.253  -0.296  1.00102.18      LS12
ATOM  45237  N   GLU L  65     170.764  71.440  -1.958  1.00 61.97      LS12
ATOM  45238  CA  GLU L  65     172.109  71.383  -1.403  1.00 61.97      LS12
ATOM  45239  CB  GLU L  65     172.983  70.476  -2.274  1.00135.27      LS12
ATOM  45240  CG  GLU L  65     172.393  69.085  -2.597  1.00135.27      LS12
ATOM  45241  CD  GLU L  65     171.134  69.115  -3.481  1.00135.27      LS12
ATOM  45242  OE1 GLU L  65     171.059  69.945  -4.417  1.00135.27      LS12
ATOM  45243  OE2 GLU L  65     170.226  68.284  -3.246  1.00135.27      LS12
ATOM  45244  C   GLU L  65     172.690  72.797  -1.387  1.00 61.97      LS12
ATOM  45245  O   GLU L  65     173.541  73.132  -2.205  1.00 61.97      LS12
ATOM  45246  N   VAL L  66     172.231  73.620  -0.451  1.00 47.44      LS12
ATOM  45247  CA  VAL L  66     172.690  75.002  -0.350  1.00 47.44      LS12
ATOM  45248  CB  VAL L  66     171.496  75.976  -0.337  1.00100.02      LS12
ATOM  45249  CG1 VAL L  66     170.793  75.942  -1.676  1.00100.02      LS12
ATOM  45250  CG2 VAL L  66     170.529  75.604   0.784  1.00100.02      LS12
ATOM  45251  C   VAL L  66     173.561  75.325   0.862  1.00 47.44      LS12
ATOM  45252  O   VAL L  66     173.497  74.658   1.901  1.00 47.44      LS12
ATOM  45253  N   THR L  67     174.356  76.381   0.705  1.00 64.58      LS12
ATOM  45254  CA  THR L  67     175.270  76.875   1.731  1.00 64.58      LS12
ATOM  45255  CB  THR L  67     176.560  77.406   1.095  1.00 68.06      LS12
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ATOM  45256  OG1 THR L  67     177.280  78.180   2.057  1.00 68.06       LS12
ATOM  45257  CG2 THR L  67     176.242  78.269  -0.112  1.00 68.06       LS12
ATOM  45258  C   THR L  67     174.650  77.997   2.563  1.00 64.58       LS12
ATOM  45259  O   THR L  67     174.272  79.050   2.037  1.00 64.58       LS12
ATOM  45260  N   ALA L  68     174.575  77.769   3.869  1.00 46.50       LS12
ATOM  45261  CA  ALA L  68     173.985  78.730   4.791  1.00 46.50       LS12
ATOM  45262  CB  ALA L  68     172.867  78.055   5.567  1.00 44.29       LS12
ATOM  45263  C   ALA L  68     174.994  79.325   5.764  1.00 46.50       LS12
ATOM  45264  O   ALA L  68     175.939  78.652   6.177  1.00 46.50       LS12
ATOM  45265  N   TYR L  69     174.780  80.584   6.141  1.00 37.47       LS12
ATOM  45266  CA  TYR L  69     175.670  81.257   7.084  1.00 37.47       LS12
ATOM  45267  CB  TYR L  69     175.456  82.763   7.054  1.00 55.08       LS12
ATOM  45268  CG  TYR L  69     176.392  83.519   7.964  1.00 55.08       LS12
ATOM  45269  CD1 TYR L  69     177.603  84.018   7.492  1.00 55.08       LS12
ATOM  45270  CE1 TYR L  69     178.467  84.727   8.328  1.00 55.08       LS12
ATOM  45271  CD2 TYR L  69     176.066  83.743   9.301  1.00 55.08       LS12
ATOM  45272  CE2 TYR L  69     176.924  84.450  10.152  1.00 55.08       LS12
ATOM  45273  CZ  TYR L  69     178.119  84.938   9.658  1.00 55.08       LS12
ATOM  45274  OH  TYR L  69     178.964  85.631  10.486  1.00 55.08       LS12
ATOM  45275  C   TYR L  69     175.386  80.771   8.490  1.00 37.47       LS12
ATOM  45276  O   TYR L  69     174.268  80.335   8.781  1.00 37.47       LS12
ATOM  45277  N   ILE L  70     176.394  80.855   9.358  1.00 28.85       LS12
ATOM  45278  CA  ILE L  70     176.252  80.431  10.754  1.00 28.85       LS12
ATOM  45279  CB  ILE L  70     177.281  79.357  11.117  1.00 27.75       LS12
ATOM  45280  CG2 ILE L  70     176.886  78.694  12.422  1.00 27.75       LS12
ATOM  45281  CG1 ILE L  70     177.332  78.304  10.009  1.00 27.75       LS12
ATOM  45282  CD1 ILE L  70     178.375  77.216  10.214  1.00 27.75       LS12
ATOM  45283  C   ILE L  70     176.432  81.625  11.685  1.00 28.85       LS12
ATOM  45284  O   ILE L  70     177.540  81.956  12.080  1.00 28.85       LS12
ATOM  45285  N   PRO L  71     175.328  82.280  12.053  1.00 46.31       LS12
ATOM  45286  CD  PRO L  71     173.945  81.811  11.875  1.00 46.43       LS12
ATOM  45287  CA  PRO L  71     175.359  83.445  12.933  1.00 46.31       LS12
ATOM  45288  CB  PRO L  71     173.896  83.849  13.001  1.00 46.43       LS12
ATOM  45289  CG  PRO L  71     173.216  82.532  12.992  1.00 46.43       LS12
ATOM  45290  C   PRO L  71     175.917  83.131  14.304  1.00 46.31       LS12
ATOM  45291  O   PRO L  71     176.029  81.969  14.685  1.00 46.31       LS12
ATOM  45292  N   GLY L  72     176.257  84.178  15.044  1.00100.44       LS12
ATOM  45293  CA  GLY L  72     176.785  83.993  16.381  1.00100.44       LS12
ATOM  45294  C   GLY L  72     178.285  83.801  16.435  1.00100.44       LS12
ATOM  45295  O   GLY L  72     178.927  83.548  15.414  1.00100.44       LS12
ATOM  45296  N   GLU L  73     178.838  83.925  17.640  1.00143.38       LS12
ATOM  45297  CA  GLU L  73     180.268  83.767  17.871  1.00143.38       LS12
ATOM  45298  CB  GLU L  73     180.577  83.909  19.363  1.00119.93       LS12
ATOM  45299  CG  GLU L  73     180.298  85.297  19.932  1.00119.93       LS12
ATOM  45300  CD  GLU L  73     181.249  86.356  19.398  1.00119.93       LS12
ATOM  45301  OE1 GLU L  73     181.125  87.536  19.795  1.00119.93       LS12
ATOM  45302  OE2 GLU L  73     182.124  86.003  18.581  1.00119.93       LS12
ATOM  45303  C   GLU L  73     180.750  82.410  17.379  1.00143.38       LS12
ATOM  45304  O   GLU L  73     180.986  82.217  16.186  1.00143.38       LS12
ATOM  45305  N   GLY L  74     180.885  81.465  18.301  1.00 63.51       LS12
ATOM  45306  CA  GLY L  74     181.351  80.148  17.912  1.00 63.51       LS12
ATOM  45307  C   GLY L  74     180.265  79.096  17.894  1.00 63.51       LS12
ATOM  45308  O   GLY L  74     179.411  79.064  18.777  1.00 63.51       LS12
ATOM  45309  N   HIS L  75     180.306  78.227  16.891  1.00 59.55       LS12
ATOM  45310  CA  HIS L  75     179.316  77.168  16.754  1.00 59.55       LS12
ATOM  45311  CB  HIS L  75     178.858  77.061  15.303  1.00 93.27       LS12
ATOM  45312  CG  HIS L  75     179.923  76.576  14.370  1.00 93.27       LS12
ATOM  45313  CD2 HIS L  75     180.126  75.362  13.807  1.00 93.27       LS12
ATOM  45314  ND1 HIS L  75     180.955  77.378  13.936  1.00 93.27       LS12
ATOM  45315  CE1 HIS L  75     181.748  76.679  13.143  1.00 93.27       LS12
ATOM  45316  NE2 HIS L  75     181.267  75.453  13.049  1.00 93.27       LS12
ATOM  45317  C   HIS L  75     179.896  75.828  17.182  1.00 59.55       LS12
ATOM  45318  O   HIS L  75     180.886  75.783  17.907  1.00 59.55       LS12
ATOM  45319  N   ASN L  76     179.273  74.745  16.712  1.00 49.04       LS12
ATOM  45320  CA  ASN L  76     179.687  73.372  17.015  1.00 49.04       LS12
ATOM  45321  CB  ASN L  76     179.186  72.949  18.408  1.00 73.79       LS12
ATOM  45322  CG  ASN L  76     177.656  72.935  18.514  1.00 73.79       LS12
ATOM  45323  OD1 ASN L  76     176.997  73.945  18.285  1.00 73.79       LS12
ATOM  45324  ND2 ASN L  76     177.095  71.787  18.868  1.00 73.79       LS12
ATOM  45325  C   ASN L  76     179.092  72.442  15.968  1.00 49.04       LS12
ATOM  45326  O   ASN L  76     178.418  71.471  16.301  1.00 49.04       LS12
ATOM  45327  N   LEU L  77     179.343  72.727  14.700  1.00 53.11       LS12
ATOM  45328  CA  LEU L  77     178.771  71.898  13.650  1.00 53.11       LS12
ATOM  45329  CB  LEU L  77     177.966  72.789  12.712  1.00 41.46       LS12
ATOM  45330  CG  LEU L  77     177.068  73.758  13.486  1.00 41.46       LS12
ATOM  45331  CD1 LEU L  77     176.274  74.641  12.519  1.00 41.46       LS12
ATOM  45332  CD2 LEU L  77     176.151  72.953  14.395  1.00 41.46       LS12
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ATOM  45333  C   LEU L  77     179.802  71.079  12.877  1.00 53.11      LS12
ATOM  45334  O   LEU L  77     180.821  71.608  12.423  1.00 53.11      LS12
ATOM  45335  N   GLN L  78     179.515  69.788  12.721  1.00 78.36      LS12
ATOM  45336  CA  GLN L  78     180.422  68.858  12.048  1.00 78.36      LS12
ATOM  45337  CB  GLN L  78     180.625  67.616  12.917  1.00134.68      LS12
ATOM  45338  CG  GLN L  78     180.581  67.866  14.409  1.00134.68      LS12
ATOM  45339  CD  GLN L  78     180.512  66.576  15.193  1.00134.68      LS12
ATOM  45340  OE1 GLN L  78     181.442  65.771  15.160  1.00134.68      LS12
ATOM  45341  NE2 GLN L  78     179.402  66.365  15.896  1.00134.68      LS12
ATOM  45342  C   GLN L  78     179.974  68.389  10.668  1.00 78.36      LS12
ATOM  45343  O   GLN L  78     178.999  68.878  10.107  1.00 78.36      LS12
ATOM  45344  N   GLU L  79     180.704  67.407  10.150  1.00120.73      LS12
ATOM  45345  CA  GLU L  79     180.429  66.824   8.848  1.00120.73      LS12
ATOM  45346  CB  GLU L  79     181.461  65.748   8.514  1.00201.01      LS12
ATOM  45347  CG  GLU L  79     182.895  66.218   8.452  1.00201.01      LS12
ATOM  45348  CD  GLU L  79     183.849  65.077   8.160  1.00201.01      LS12
ATOM  45349  OE1 GLU L  79     183.653  64.391   7.135  1.00201.01      LS12
ATOM  45350  OE2 GLU L  79     184.790  64.863   8.954  1.00201.01      LS12
ATOM  45351  C   GLU L  79     179.056  66.180   8.790  1.00120.73      LS12
ATOM  45352  O   GLU L  79     178.632  65.748   7.722  1.00120.73      LS12
ATOM  45353  N   HIS L  80     178.361  66.097   9.922  1.00 75.24      LS12
ATOM  45354  CA  HIS L  80     177.043  65.463   9.926  1.00 75.24      LS12
ATOM  45355  CB  HIS L  80     177.201  63.971  10.210  1.00121.40      LS12
ATOM  45356  CG  HIS L  80     178.058  63.264   9.210  1.00121.40      LS12
ATOM  45357  CD2 HIS L  80     179.276  62.687   9.328  1.00121.40      LS12
ATOM  45358  ND1 HIS L  80     177.703  63.144   7.884  1.00121.40      LS12
ATOM  45359  CE1 HIS L  80     178.668  62.525   7.227  1.00121.40      LS12
ATOM  45360  NE2 HIS L  80     179.634  62.238   8.081  1.00121.40      LS12
ATOM  45361  C   HIS L  80     176.033  66.065  10.892  1.00 75.24      LS12
ATOM  45362  O   HIS L  80     175.171  65.363  11.429  1.00 75.24      LS12
ATOM  45363  N   SER L  81     176.128  67.371  11.096  1.00 66.54      LS12
ATOM  45364  CA  SER L  81     175.220  68.049  12.000  1.00 66.54      LS12
ATOM  45365  CB  SER L  81     175.840  69.365  12.483  1.00 52.07      LS12
ATOM  45366  OG  SER L  81     177.031  69.148  13.218  1.00 52.07      LS12
ATOM  45367  C   SER L  81     173.877  68.334  11.336  1.00 66.54      LS12
ATOM  45368  O   SER L  81     173.819  68.769  10.180  1.00 66.54      LS12
ATOM  45369  N   VAL L  82     172.802  68.067  12.072  1.00 50.61      LS12
ATOM  45370  CA  VAL L  82     171.452  68.332  11.595  1.00 50.61      LS12
ATOM  45371  CB  VAL L  82     170.415  67.458  12.302  1.00 23.40      LS12
ATOM  45372  CG1 VAL L  82     169.043  68.077  12.208  1.00 23.40      LS12
ATOM  45373  CG2 VAL L  82     170.379  66.113  11.645  1.00 23.40      LS12
ATOM  45374  C   VAL L  82     171.187  69.789  11.905  1.00 50.61      LS12
ATOM  45375  O   VAL L  82     171.311  70.242  13.046  1.00 50.61      LS12
ATOM  45376  N   VAL L  83     170.796  70.521  10.881  1.00 38.00      LS12
ATOM  45377  CA  VAL L  83     170.586  71.931  11.044  1.00 38.00      LS12
ATOM  45378  CB  VAL L  83     171.720  72.644  10.288  1.00 14.69      LS12
ATOM  45379  CG1 VAL L  83     171.365  72.771   8.822  1.00 14.69      LS12
ATOM  45380  CG2 VAL L  83     172.024  73.965  10.918  1.00 14.69      LS12
ATOM  45381  C   VAL L  83     169.203  72.395  10.553  1.00 38.00      LS12
ATOM  45382  O   VAL L  83     168.426  71.606  10.012  1.00 38.00      LS12
ATOM  45383  N   LEU L  84     168.894  73.671  10.784  1.00 36.73      LS12
ATOM  45384  CA  LEU L  84     167.645  74.270  10.334  1.00 36.73      LS12
ATOM  45385  CB  LEU L  84     166.707  74.539  11.505  1.00 31.03      LS12
ATOM  45386  CG  LEU L  84     165.327  75.020  11.037  1.00 31.03      LS12
ATOM  45387  CD1 LEU L  84     164.612  73.888  10.318  1.00 31.03      LS12
ATOM  45388  CD2 LEU L  84     164.489  75.480  12.207  1.00 31.03      LS12
ATOM  45389  C   LEU L  84     167.979  75.586   9.620  1.00 36.73      LS12
ATOM  45390  O   LEU L  84     168.646  76.464  10.167  1.00 36.73      LS12
ATOM  45391  N   ILE L  85     167.516  75.702   8.382  1.00 34.55      LS12
ATOM  45392  CA  ILE L  85     167.760  76.874   7.555  1.00 34.55      LS12
ATOM  45393  CB  ILE L  85     167.983  76.417   6.097  1.00 38.88      LS12
ATOM  45394  CG2 ILE L  85     167.503  77.446   5.125  1.00 38.88      LS12
ATOM  45395  CG1 ILE L  85     169.463  76.154   5.872  1.00 38.88      LS12
ATOM  45396  CD1 ILE L  85     170.107  75.328   6.952  1.00 38.88      LS12
ATOM  45397  C   ILE L  85     166.606  77.870   7.640  1.00 34.55      LS12
ATOM  45398  O   ILE L  85     165.442  77.466   7.694  1.00 34.55      LS12
ATOM  45399  N   ARG L  86     166.920  79.168   7.659  1.00 42.45      LS12
ATOM  45400  CA  ARG L  86     165.866  80.177   7.742  1.00 42.45      LS12
ATOM  45401  CB  ARG L  86     165.805  80.793   9.137  1.00 52.02      LS12
ATOM  45402  CG  ARG L  86     166.807  81.870   9.378  1.00 52.02      LS12
ATOM  45403  CD  ARG L  86     166.528  82.559  10.688  1.00 52.02      LS12
ATOM  45404  NE  ARG L  86     167.629  83.442  11.021  1.00 52.02      LS12
ATOM  45405  CZ  ARG L  86     168.097  84.370  10.196  1.00 52.02      LS12
ATOM  45406  NH1 ARG L  86     167.545  84.530   8.995  1.00 52.02      LS12
ATOM  45407  NH2 ARG L  86     169.130  85.125  10.558  1.00 52.02      LS12
ATOM  45408  C   ARG L  86     165.958  81.292   6.709  1.00 42.45      LS12
ATOM  45409  O   ARG L  86     165.128  82.204   6.674  1.00 42.45      LS12
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ATOM  45410  N   GLY L  87     166.973  81.243   5.871  1.00 30.53      LS12
ATOM  45411  CA  GLY L  87     167.049  82.255   4.840  1.00 30.53      LS12
ATOM  45412  C   GLY L  87     167.319  83.674   5.280  1.00 30.53      LS12
ATOM  45413  O   GLY L  87     166.556  84.279   6.022  1.00 30.53      LS12
ATOM  45414  N   GLY L  88     168.434  84.186   4.778  1.00 25.73      LS12
ATOM  45415  CA  GLY L  88     168.894  85.524   5.059  1.00 25.73      LS12
ATOM  45416  C   GLY L  88     170.208  85.653   4.309  1.00 25.73      LS12
ATOM  45417  O   GLY L  88     171.178  84.966   4.627  1.00 25.73      LS12
ATOM  45418  N   ARG L  89     170.231  86.503   3.287  1.00 55.35      LS12
ATOM  45419  CA  ARG L  89     171.440  86.720   2.506  1.00 55.35      LS12
ATOM  45420  CB  ARG L  89     171.161  87.720   1.375  1.00123.41      LS12
ATOM  45421  CG  ARG L  89     170.020  87.311   0.424  1.00123.41      LS12
ATOM  45422  CD  ARG L  89     170.476  86.345  -0.690  1.00123.41      LS12
ATOM  45423  NE  ARG L  89     169.383  85.950  -1.591  1.00123.41      LS12
ATOM  45424  CZ  ARG L  89     169.550  85.336  -2.761  1.00123.41      LS12
ATOM  45425  NH1 ARG L  89     170.766  85.040  -3.193  1.00123.41      LS12
ATOM  45426  NH2 ARG L  89     168.499  85.015  -3.503  1.00123.41      LS12
ATOM  45427  C   ARG L  89     172.529  87.260   3.438  1.00 55.35      LS12
ATOM  45428  O   ARG L  89     172.263  87.604   4.592  1.00 55.35      LS12
ATOM  45429  N   VAL L  90     173.759  87.316   2.942  1.00 62.21      LS12
ATOM  45430  CA  VAL L  90     174.889  87.818   3.716  1.00 62.21      LS12
ATOM  45431  CB  VAL L  90     175.710  86.675   4.304  1.00 10.06      LS12
ATOM  45432  CG1 VAL L  90     176.852  87.229   5.067  1.00 10.06      LS12
ATOM  45433  CG2 VAL L  90     174.860  85.834   5.227  1.00 10.06      LS12
ATOM  45434  C   VAL L  90     175.763  88.587   2.746  1.00 62.21      LS12
ATOM  45435  O   VAL L  90     176.671  88.021   2.149  1.00 62.21      LS12
ATOM  45436  N   LYS L  91     175.483  89.876   2.600  1.00 63.71      LS12
ATOM  45437  CA  LYS L  91     176.193  90.737   1.662  1.00 63.71      LS12
ATOM  45438  CB  LYS L  91     176.150  92.187   2.143  1.00 98.25      LS12
ATOM  45439  CG  LYS L  91     175.275  93.100   1.270  1.00 98.25      LS12
ATOM  45440  CD  LYS L  91     173.883  92.501   0.974  1.00 98.25      LS12
ATOM  45441  CE  LYS L  91     173.880  91.564  -0.255  1.00 98.25      LS12
ATOM  45442  NZ  LYS L  91     172.592  90.831  -0.476  1.00 98.25      LS12
ATOM  45443  C   LYS L  91     177.610  90.355   1.271  1.00 63.71      LS12
ATOM  45444  O   LYS L  91     177.892  90.261   0.079  1.00 63.71      LS12
ATOM  45445  N   ASP L  92     178.495  90.127   2.244  1.00 54.26      LS12
ATOM  45446  CA  ASP L  92     179.884  89.750   1.949  1.00 54.26      LS12
ATOM  45447  CB  ASP L  92     180.655  89.513   3.221  1.00 51.51      LS12
ATOM  45448  CG  ASP L  92     180.633  90.691   4.093  1.00 51.51      LS12
ATOM  45449  OD1 ASP L  92     180.561  91.813   3.534  1.00 51.51      LS12
ATOM  45450  OD2 ASP L  92     180.690  90.489   5.318  1.00 51.51      LS12
ATOM  45451  C   ASP L  92     180.012  88.510   1.114  1.00 54.26      LS12
ATOM  45452  O   ASP L  92     180.204  88.577  -0.091  1.00 54.26      LS12
ATOM  45453  N   LEU L  93     179.946  87.365   1.768  1.00 50.71      LS12
ATOM  45454  CA  LEU L  93     180.042  86.126   1.037  1.00 50.71      LS12
ATOM  45455  CB  LEU L  93     180.191  84.946   1.981  1.00 37.13      LS12
ATOM  45456  CG  LEU L  93     179.487  85.118   3.306  1.00 37.13      LS12
ATOM  45457  CD1 LEU L  93     179.353  83.786   3.991  1.00 37.13      LS12
ATOM  45458  CD2 LEU L  93     180.300  86.075   4.149  1.00 37.13      LS12
ATOM  45459  C   LEU L  93     178.772  85.978   0.238  1.00 50.71      LS12
ATOM  45460  O   LEU L  93     177.679  85.911   0.803  1.00 50.71      LS12
ATOM  45461  N   PRO L  94     178.896  85.948  -1.094  1.00 65.71      LS12
ATOM  45462  CD  PRO L  94     180.104  86.162  -1.894  1.00 49.31      LS12
ATOM  45463  CA  PRO L  94     177.735  85.806  -1.967  1.00 65.71      LS12
ATOM  45464  CB  PRO L  94     178.238  86.329  -3.315  1.00 49.31      LS12
ATOM  45465  CG  PRO L  94     179.555  87.005  -2.999  1.00 49.31      LS12
ATOM  45466  C   PRO L  94     177.446  84.319  -2.014  1.00 65.71      LS12
ATOM  45467  O   PRO L  94     178.268  83.514  -1.559  1.00 65.71      LS12
ATOM  45468  N   GLY L  95     176.297  83.949  -2.566  1.00 61.06      LS12
ATOM  45469  CA  GLY L  95     175.961  82.543  -2.639  1.00 61.06      LS12
ATOM  45470  C   GLY L  95     175.555  82.062  -1.265  1.00 61.06      LS12
ATOM  45471  O   GLY L  95     175.311  80.874  -1.044  1.00 61.06      LS12
ATOM  45472  N   VAL L  96     175.501  82.992  -0.322  1.00 57.00      LS12
ATOM  45473  CA  VAL L  96     175.086  82.658   1.028  1.00 57.00      LS12
ATOM  45474  CB  VAL L  96     176.080  83.195   2.063  1.00 48.94      LS12
ATOM  45475  CG1 VAL L  96     176.002  82.358   3.322  1.00 48.94      LS12
ATOM  45476  CG2 VAL L  96     177.476  83.143   1.501  1.00 48.94      LS12
ATOM  45477  C   VAL L  96     173.724  83.329   1.177  1.00 57.00      LS12
ATOM  45478  O   VAL L  96     173.626  84.502   1.540  1.00 57.00      LS12
ATOM  45479  N   ARG L  97     172.681  82.560   0.869  1.00 47.44      LS12
ATOM  45480  CA  ARG L  97     171.307  83.036   0.902  1.00 47.44      LS12
ATOM  45481  CB  ARG L  97     170.512  82.385  -0.224  1.00109.54      LS12
ATOM  45482  CG  ARG L  97     170.988  82.684  -1.619  1.00109.54      LS12
ATOM  45483  CD  ARG L  97     170.121  81.926  -2.601  1.00109.54      LS12
ATOM  45484  NE  ARG L  97     170.277  82.387  -3.973  1.00109.54      LS12
ATOM  45485  CZ  ARG L  97     169.642  81.845  -5.006  1.00109.54      LS12
ATOM  45486  NH1 ARG L  97     168.815  80.826  -4.809  1.00109.54      LS12
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ATOM	45487	NH2	ARG	L	97	169.826	82.323	-6.229	1.00	109.54	LS12
ATOM	45488	C	ARG	L	97	170.535	82.811	2.191	1.00	47.44	LS12
ATOM	45489	O	ARG	L	97	169.604	83.555	2.491	1.00	47.44	LS12
ATOM	45490	N	TYR	L	98	170.900	81.786	2.947	1.00	24.32	LS12
ATOM	45491	CA	TYR	L	98	170.178	81.482	4.166	1.00	24.32	LS12
ATOM	45492	CB	TYR	L	98	169.579	80.087	4.040	1.00	46.18	LS12
ATOM	45493	CG	TYR	L	98	169.040	79.775	2.654	1.00	46.18	LS12
ATOM	45494	CD1	TYR	L	98	169.885	79.676	1.553	1.00	46.18	LS12
ATOM	45495	CE1	TYR	L	98	169.382	79.377	0.282	1.00	46.18	LS12
ATOM	45496	CD2	TYR	L	98	167.682	79.569	2.447	1.00	46.18	LS12
ATOM	45497	CE2	TYR	L	98	167.170	79.270	1.184	1.00	46.18	LS12
ATOM	45498	CZ	TYR	L	98	168.020	79.171	0.106	1.00	46.18	LS12
ATOM	45499	OH	TYR	L	98	167.498	78.837	-1.132	1.00	46.18	LS12
ATOM	45500	C	TYR	L	98	171.054	81.568	5.413	1.00	24.32	LS12
ATOM	45501	O	TYR	L	98	172.275	81.701	5.320	1.00	24.32	LS12
ATOM	45502	N	HIS	L	99	170.420	81.501	6.580	1.00	40.09	LS12
ATOM	45503	CA	HIS	L	99	171.114	81.546	7.867	1.00	40.09	LS12
ATOM	45504	CB	HIS	L	99	170.613	82.706	8.717	1.00	38.28	LS12
ATOM	45505	CG	HIS	L	99	171.342	83.987	8.500	1.00	38.28	LS12
ATOM	45506	CD2	HIS	L	99	171.886	84.860	9.379	1.00	38.28	LS12
ATOM	45507	ND1	HIS	L	99	171.558	84.518	7.248	1.00	38.28	LS12
ATOM	45508	CE1	HIS	L	99	172.206	85.665	7.365	1.00	38.28	LS12
ATOM	45509	NE2	HIS	L	99	172.417	85.896	8.648	1.00	38.28	LS12
ATOM	45510	C	HIS	L	99	170.740	80.277	8.596	1.00	40.09	LS12
ATOM	45511	O	HIS	L	99	169.761	79.617	8.240	1.00	40.09	LS12
ATOM	45512	N	ILE	L	100	171.503	79.927	9.621	1.00	64.94	LS12
ATOM	45513	CA	ILE	L	100	171.165	78.751	10.401	1.00	64.94	LS12
ATOM	45514	CB	ILE	L	100	172.363	77.882	10.682	1.00	30.20	LS12
ATOM	45515	CG2	ILE	L	100	172.012	76.883	11.762	1.00	30.20	LS12
ATOM	45516	CG1	ILE	L	100	172.785	77.182	9.395	1.00	30.20	LS12
ATOM	45517	CD1	ILE	L	100	174.047	76.404	9.529	1.00	30.20	LS12
ATOM	45518	C	ILE	L	100	170.590	79.242	11.709	1.00	64.94	LS12
ATOM	45519	O	ILE	L	100	170.970	80.296	12.206	1.00	64.94	LS12
ATOM	45520	N	VAL	L	101	169.680	78.467	12.272	1.00	41.27	LS12
ATOM	45521	CA	VAL	L	101	169.014	78.861	13.494	1.00	41.27	LS12
ATOM	45522	CB	VAL	L	101	167.609	78.271	13.523	1.00	51.32	LS12
ATOM	45523	CG1	VAL	L	101	166.819	78.884	14.641	1.00	51.32	LS12
ATOM	45524	CG2	VAL	L	101	166.931	78.502	12.187	1.00	51.32	LS12
ATOM	45525	C	VAL	L	101	169.724	78.484	14.778	1.00	41.27	LS12
ATOM	45526	O	VAL	L	101	169.266	77.602	15.498	1.00	41.27	LS12
ATOM	45527	N	ARG	L	102	170.831	79.157	15.073	1.00	45.90	LS12
ATOM	45528	CA	ARG	L	102	171.575	78.885	16.297	1.00	45.90	LS12
ATOM	45529	CB	ARG	L	102	172.475	80.067	16.659	1.00	48.00	LS12
ATOM	45530	CG	ARG	L	102	173.686	80.223	15.773	1.00	48.00	LS12
ATOM	45531	CD	ARG	L	102	174.567	79.005	15.901	1.00	48.00	LS12
ATOM	45532	NE	ARG	L	102	175.022	78.814	17.275	1.00	48.00	LS12
ATOM	45533	CZ	ARG	L	102	176.098	79.395	17.791	1.00	48.00	LS12
ATOM	45534	NH1	ARG	L	102	176.846	80.206	17.056	1.00	48.00	LS12
ATOM	45535	NH2	ARG	L	102	176.419	79.164	19.052	1.00	48.00	LS12
ATOM	45536	C	ARG	L	102	170.586	78.660	17.426	1.00	45.90	LS12
ATOM	45537	O	ARG	L	102	170.106	79.615	18.033	1.00	45.90	LS12
ATOM	45538	N	GLY	L	103	170.273	77.401	17.701	1.00	46.62	LS12
ATOM	45539	CA	GLY	L	103	169.339	77.110	18.764	1.00	46.62	LS12
ATOM	45540	C	GLY	L	103	168.400	75.967	18.453	1.00	46.62	LS12
ATOM	45541	O	GLY	L	103	167.640	75.532	19.324	1.00	46.62	LS12
ATOM	45542	N	VAL	L	104	168.434	75.471	17.222	1.00	69.32	LS12
ATOM	45543	CA	VAL	L	104	167.560	74.366	16.850	1.00	69.32	LS12
ATOM	45544	CB	VAL	L	104	166.507	74.782	15.809	1.00	66.15	LS12
ATOM	45545	CG1	VAL	L	104	165.435	73.711	15.717	1.00	66.15	LS12
ATOM	45546	CG2	VAL	L	104	165.903	76.120	16.173	1.00	66.15	LS12
ATOM	45547	C	VAL	L	104	168.368	73.239	16.249	1.00	69.32	LS12
ATOM	45548	O	VAL	L	104	169.196	73.473	15.368	1.00	69.32	LS12
ATOM	45549	N	TYR	L	105	168.114	72.020	16.725	1.00	49.30	LS12
ATOM	45550	CA	TYR	L	105	168.806	70.825	16.241	1.00	49.30	LS12
ATOM	45551	CB	TYR	L	105	168.677	70.731	14.717	1.00	55.44	LS12
ATOM	45552	CG	TYR	L	105	167.243	70.636	14.231	1.00	55.44	LS12
ATOM	45553	CD1	TYR	L	105	166.871	71.156	12.990	1.00	55.44	LS12
ATOM	45554	CE1	TYR	L	105	165.565	71.056	12.536	1.00	55.44	LS12
ATOM	45555	CD2	TYR	L	105	166.261	70.012	15.009	1.00	55.44	LS12
ATOM	45556	CE2	TYR	L	105	164.951	69.904	14.564	1.00	55.44	LS12
ATOM	45557	CZ	TYR	L	105	164.607	70.428	13.326	1.00	55.44	LS12
ATOM	45558	OH	TYR	L	105	163.309	70.311	12.871	1.00	55.44	LS12
ATOM	45559	C	TYR	L	105	170.277	70.786	16.643	1.00	49.30	LS12
ATOM	45560	O	TYR	L	105	170.707	71.478	17.561	1.00	49.30	LS12
ATOM	45561	N	ASP	L	106	171.050	69.977	15.943	1.00	67.36	LS12
ATOM	45562	CA	ASP	L	106	172.459	69.843	16.248	1.00	67.36	LS12
ATOM	45563	CB	ASP	L	106	173.132	69.026	15.144	1.00	68.55	LS12

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ATOM  45564  CG  ASP L 106     172.656  67.583  15.114  1.00 68.55       LS12
ATOM  45565  OD1 ASP L 106     172.972  66.868  14.138  1.00 68.55       LS12
ATOM  45566  OD2 ASP L 106     171.973  67.161  16.076  1.00 68.55       LS12
ATOM  45567  C   ASP L 106     173.195  71.174  16.459  1.00 67.36       LS12
ATOM  45568  O   ASP L 106     174.218  71.223  17.147  1.00 67.36       LS12
ATOM  45569  N   ALA L 107     172.687  72.258  15.888  1.00 78.52       LS12
ATOM  45570  CA  ALA L 107     173.357  73.545  16.045  1.00 78.52       LS12
ATOM  45571  CB  ALA L 107     172.941  74.488  14.930  1.00 97.60       LS12
ATOM  45572  C   ALA L 107     173.089  74.189  17.400  1.00 78.52       LS12
ATOM  45573  O   ALA L 107     172.113  74.921  17.568  1.00 78.52       LS12
ATOM  45574  N   ALA L 108     173.957  73.917  18.370  1.00 48.20       LS12
ATOM  45575  CA  ALA L 108     173.800  74.493  19.701  1.00 48.20       LS12
ATOM  45576  CB  ALA L 108     174.954  74.058  20.590  1.00134.39       LS12
ATOM  45577  C   ALA L 108     173.729  76.025  19.635  1.00 48.20       LS12
ATOM  45578  O   ALA L 108     174.237  76.647  18.699  1.00 48.20       LS12
ATOM  45579  N   GLY L 109     173.091  76.627  20.632  1.00 56.47       LS12
ATOM  45580  CA  GLY L 109     172.973  78.076  20.661  1.00 56.47       LS12
ATOM  45581  C   GLY L 109     174.243  78.742  21.145  1.00 56.47       LS12
ATOM  45582  O   GLY L 109     175.123  78.081  21.683  1.00 56.47       LS12
ATOM  45583  N   VAL L 110     174.348  80.050  20.959  1.00 55.09       LS12
ATOM  45584  CA  VAL L 110     175.544  80.762  21.390  1.00 55.09       LS12
ATOM  45585  CB  VAL L 110     175.533  82.232  20.932  1.00 18.85       LS12
ATOM  45586  CG1 VAL L 110     176.759  82.954  21.477  1.00 18.85       LS12
ATOM  45587  CG2 VAL L 110     175.509  82.298  19.407  1.00 18.85       LS12
ATOM  45588  C   VAL L 110     175.680  80.726  22.901  1.00 55.09       LS12
ATOM  45589  O   VAL L 110     174.682  80.728  23.614  1.00 55.09       LS12
ATOM  45590  N   LYS L 111     176.925  80.696  23.375  1.00 74.89       LS12
ATOM  45591  CA  LYS L 111     177.215  80.650  24.803  1.00 74.89       LS12
ATOM  45592  CB  LYS L 111     178.245  79.555  25.083  1.00201.18       LS12
ATOM  45593  CG  LYS L 111     177.827  78.184  24.580  1.00201.18       LS12
ATOM  45594  CD  LYS L 111     178.921  77.153  24.789  1.00201.18       LS12
ATOM  45595  CE  LYS L 111     178.505  75.795  24.243  1.00201.18       LS12
ATOM  45596  NZ  LYS L 111     179.586  74.780  24.383  1.00201.18       LS12
ATOM  45597  C   LYS L 111     177.738  81.988  25.316  1.00 74.89       LS12
ATOM  45598  O   LYS L 111     178.538  82.640  24.647  1.00 74.89       LS12
ATOM  45599  N   ASP L 112     177.278  82.387  26.501  1.00 70.47       LS12
ATOM  45600  CA  ASP L 112     177.699  83.642  27.125  1.00 70.47       LS12
ATOM  45601  CB  ASP L 112     179.229  83.735  27.148  1.00111.80       LS12
ATOM  45602  CG  ASP L 112     179.860  82.767  28.135  1.00111.80       LS12
ATOM  45603  OD1 ASP L 112     181.089  82.559  28.057  1.00111.80       LS12
ATOM  45604  OD2 ASP L 112     179.132  82.222  28.994  1.00111.80       LS12
ATOM  45605  C   ASP L 112     177.117  84.841  26.387  1.00 70.47       LS12
ATOM  45606  O   ASP L 112     177.822  85.793  26.047  1.00 70.47       LS12
ATOM  45607  N   ARG L 113     175.816  84.794  26.158  1.00 65.63       LS12
ATOM  45608  CA  ARG L 113     175.138  85.856  25.443  1.00 65.63       LS12
ATOM  45609  CB  ARG L 113     174.490  85.264  24.203  1.00 61.91       LS12
ATOM  45610  CG  ARG L 113     175.047  85.802  22.924  1.00 61.91       LS12
ATOM  45611  CD  ARG L 113     174.482  87.160  22.653  1.00 61.91       LS12
ATOM  45612  NE  ARG L 113     174.981  87.690  21.396  1.00 61.91       LS12
ATOM  45613  CZ  ARG L 113     174.444  88.735  20.786  1.00 61.91       LS12
ATOM  45614  NH1 ARG L 113     173.390  89.342  21.325  1.00 61.91       LS12
ATOM  45615  NH2 ARG L 113     174.966  89.180  19.654  1.00 61.91       LS12
ATOM  45616  C   ARG L 113     174.084  86.473  26.333  1.00 65.63       LS12
ATOM  45617  O   ARG L 113     173.100  85.822  26.668  1.00 65.63       LS12
ATOM  45618  N   LYS L 114     174.270  87.731  26.709  1.00 74.34       LS12
ATOM  45619  CA  LYS L 114     173.304  88.378  27.589  1.00 74.34       LS12
ATOM  45620  CB  LYS L 114     174.037  89.273  28.593  1.00 93.01       LS12
ATOM  45621  CG  LYS L 114     175.291  88.649  29.188  1.00 93.01       LS12
ATOM  45622  CD  LYS L 114     175.004  87.307  29.849  1.00 93.01       LS12
ATOM  45623  CE  LYS L 114     176.284  86.659  30.359  1.00 93.01       LS12
ATOM  45624  NZ  LYS L 114     176.041  85.315  30.950  1.00 93.01       LS12
ATOM  45625  C   LYS L 114     172.266  89.209  26.846  1.00 74.34       LS12
ATOM  45626  O   LYS L 114     171.118  89.331  27.287  1.00 74.34       LS12
ATOM  45627  N   LYS L 115     172.673  89.752  25.704  1.00 81.48       LS12
ATOM  45628  CA  LYS L 115     171.824  90.625  24.911  1.00 81.48       LS12
ATOM  45629  CB  LYS L 115     172.716  91.562  24.123  1.00 53.43       LS12
ATOM  45630  CG  LYS L 115     173.738  92.281  24.984  1.00 53.43       LS12
ATOM  45631  CD  LYS L 115     173.288  93.667  25.416  1.00 53.43       LS12
ATOM  45632  CE  LYS L 115     174.427  94.406  26.134  1.00 53.43       LS12
ATOM  45633  NZ  LYS L 115     174.022  95.767  26.608  1.00 53.43       LS12
ATOM  45634  C   LYS L 115     170.776  90.015  23.981  1.00 81.48       LS12
ATOM  45635  O   LYS L 115     169.887  89.292  24.428  1.00 81.48       LS12
ATOM  45636  N   SER L 116     170.870  90.342  22.693  1.00 36.55       LS12
ATOM  45637  CA  SER L 116     169.921  89.878  21.668  1.00 36.55       LS12
ATOM  45638  CB  SER L 116     170.376  90.371  20.294  1.00 59.08       LS12
ATOM  45639  OG  SER L 116     170.675  91.758  20.307  1.00 59.08       LS12
ATOM  45640  C   SER L 116     169.828  88.361  21.636  1.00 36.55       LS12
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ATOM  45641  O   SER L 116     170.080  87.755  20.607  1.00 36.55      LS12
ATOM  45642  N   ARG L 117     169.438  87.758  22.752  1.00 36.68      LS12
ATOM  45643  CA  ARG L 117     169.383  86.311  22.858  1.00 36.68      LS12
ATOM  45644  CB  ARG L 117     169.188  85.884  24.318  1.00 66.04      LS12
ATOM  45645  CG  ARG L 117     170.212  86.433  25.316  1.00 66.04      LS12
ATOM  45646  CD  ARG L 117     170.306  85.534  26.544  1.00 66.04      LS12
ATOM  45647  NE  ARG L 117     169.001  85.012  26.939  1.00 66.04      LS12
ATOM  45648  CZ  ARG L 117     168.066  85.724  27.559  1.00 66.04      LS12
ATOM  45649  NH1 ARG L 117     168.290  86.998  27.871  1.00 66.04      LS12
ATOM  45650  NH2 ARG L 117     166.899  85.169  27.849  1.00 66.04      LS12
ATOM  45651  C   ARG L 117     168.345  85.611  22.001  1.00 36.68      LS12
ATOM  45652  O   ARG L 117     168.611  84.523  21.499  1.00 36.68      LS12
ATOM  45653  N   SER L 118     167.164  86.208  21.850  1.00 42.01      LS12
ATOM  45654  CA  SER L 118     166.102  85.607  21.049  1.00 42.01      LS12
ATOM  45655  CB  SER L 118     165.072  86.661  20.646  1.00 96.75      LS12
ATOM  45656  OG  SER L 118     164.084  86.104  19.803  1.00 96.75      LS12
ATOM  45657  C   SER L 118     166.764  85.020  19.817  1.00 42.01      LS12
ATOM  45658  O   SER L 118     166.572  83.857  19.481  1.00 42.01      LS12
ATOM  45659  N   LYS L 119     167.547  85.839  19.138  1.00 62.70      LS12
ATOM  45660  CA  LYS L 119     168.284  85.380  17.978  1.00 62.70      LS12
ATOM  45661  CB  LYS L 119     168.626  86.575  17.113  1.00 18.88      LS12
ATOM  45662  CG  LYS L 119     167.505  87.619  17.103  1.00 18.88      LS12
ATOM  45663  CD  LYS L 119     167.986  88.934  16.502  1.00 18.88      LS12
ATOM  45664  CE  LYS L 119     166.932  90.020  16.589  1.00 18.88      LS12
ATOM  45665  NZ  LYS L 119     167.281  91.211  15.752  1.00 18.88      LS12
ATOM  45666  C   LYS L 119     169.516  84.830  18.684  1.00 62.70      LS12
ATOM  45667  O   LYS L 119     169.930  85.391  19.691  1.00 62.70      LS12
ATOM  45668  N   TYR L 120     170.092  83.744  18.187  1.00 33.33      LS12
ATOM  45669  CA  TYR L 120     171.251  83.102  18.839  1.00 33.33      LS12
ATOM  45670  CB  TYR L 120     172.161  84.119  19.536  1.00 39.19      LS12
ATOM  45671  CG  TYR L 120     172.678  85.162  18.590  1.00 39.19      LS12
ATOM  45672  CD1 TYR L 120     172.534  86.514  18.866  1.00 39.19      LS12
ATOM  45673  CE1 TYR L 120     172.903  87.476  17.946  1.00 39.19      LS12
ATOM  45674  CD2 TYR L 120     173.223  84.793  17.374  1.00 39.19      LS12
ATOM  45675  CE2 TYR L 120     173.600  85.740  16.439  1.00 39.19      LS12
ATOM  45676  CZ  TYR L 120     173.432  87.086  16.721  1.00 39.19      LS12
ATOM  45677  OH  TYR L 120     173.739  88.022  15.742  1.00 39.19      LS12
ATOM  45678  C   TYR L 120     170.751  82.084  19.858  1.00 33.33      LS12
ATOM  45679  O   TYR L 120     171.518  81.530  20.625  1.00 33.33      LS12
ATOM  45680  N   GLY L 121     169.446  81.854  19.834  1.00 52.36      LS12
ATOM  45681  CA  GLY L 121     168.796  80.900  20.715  1.00 52.36      LS12
ATOM  45682  C   GLY L 121     169.413  80.517  22.046  1.00 52.36      LS12
ATOM  45683  O   GLY L 121     169.547  79.328  22.336  1.00 52.36      LS12
ATOM  45684  N   THR L 122     169.771  81.504  22.862  1.00 46.91      LS12
ATOM  45685  CA  THR L 122     170.352  81.238  24.177  1.00 46.91      LS12
ATOM  45686  CB  THR L 122     171.482  82.211  24.484  1.00 61.66      LS12
ATOM  45687  OG1 THR L 122     170.937  83.525  24.622  1.00 61.66      LS12
ATOM  45688  CG2 THR L 122     172.507  82.218  23.364  1.00 61.66      LS12
ATOM  45689  C   THR L 122     169.271  81.410  25.248  1.00 46.91      LS12
ATOM  45690  O   THR L 122     168.496  82.378  25.213  1.00 46.91      LS12
ATOM  45691  N   LYS L 123     169.208  80.477  26.197  1.00 59.52      LS12
ATOM  45692  CA  LYS L 123     168.200  80.553  27.251  1.00 59.52      LS12
ATOM  45693  CB  LYS L 123     168.155  79.256  28.059  1.00 79.88      LS12
ATOM  45694  CG  LYS L 123     167.893  77.996  27.245  1.00 79.88      LS12
ATOM  45695  CD  LYS L 123     166.410  77.663  27.096  1.00 79.88      LS12
ATOM  45696  CE  LYS L 123     166.227  76.358  26.305  1.00 79.88      LS12
ATOM  45697  NZ  LYS L 123     164.800  75.972  26.077  1.00 79.88      LS12
ATOM  45698  C   LYS L 123     168.540  81.708  28.175  1.00 59.52      LS12
ATOM  45699  O   LYS L 123     169.689  82.156  28.226  1.00 59.52      LS12
ATOM  45700  N   LYS L 124     167.539  82.183  28.908  1.00 67.58      LS12
ATOM  45701  CA  LYS L 124     167.731  83.289  29.835  1.00 67.58      LS12
ATOM  45702  CB  LYS L 124     166.463  83.517  30.645  1.00 49.16      LS12
ATOM  45703  CG  LYS L 124     166.508  84.741  31.550  1.00 49.16      LS12
ATOM  45704  CD  LYS L 124     166.464  86.036  30.755  1.00 49.16      LS12
ATOM  45705  CE  LYS L 124     166.312  87.233  31.677  1.00 49.16      LS12
ATOM  45706  NZ  LYS L 124     165.013  87.200  32.413  1.00 49.16      LS12
ATOM  45707  C   LYS L 124     168.878  82.994  30.784  1.00 67.58      LS12
ATOM  45708  O   LYS L 124     168.902  81.948  31.429  1.00 67.58      LS12
ATOM  45709  N   PRO L 125     169.835  83.927  30.901  1.00 48.61      LS12
ATOM  45710  CD  PRO L 125     169.719  85.353  30.556  1.00103.74      LS12
ATOM  45711  CA  PRO L 125     170.972  83.712  31.794  1.00 48.61      LS12
ATOM  45712  CB  PRO L 125     171.599  85.101  31.895  1.00103.74      LS12
ATOM  45713  CG  PRO L 125     170.429  86.011  31.711  1.00103.74      LS12
ATOM  45714  C   PRO L 125     170.511  83.176  33.140  1.00 48.61      LS12
ATOM  45715  O   PRO L 125     169.366  83.400  33.549  1.00 48.61      LS12
ATOM  45716  N   LYS L 126     171.407  82.458  33.812  1.00 94.56      LS12
ATOM  45717  CA  LYS L 126     171.124  81.869  35.115  1.00 94.56      LS12
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ATOM  45718  CB  LYS L 126     172.230  80.877  35.488  1.00155.84       LS12
ATOM  45719  CG  LYS L 126     172.228  79.592  34.665  1.00155.84       LS12
ATOM  45720  CD  LYS L 126     172.435  79.852  33.179  1.00155.84       LS12
ATOM  45721  CE  LYS L 126     172.348  78.560  32.383  1.00155.84       LS12
ATOM  45722  NZ  LYS L 126     172.493  78.795  30.924  1.00155.84       LS12
ATOM  45723  C   LYS L 126     171.000  82.937  36.197  1.00 94.56       LS12
ATOM  45724  O   LYS L 126     170.374  82.708  37.232  1.00 94.56       LS12
ATOM  45725  N   GLU L 127     171.597  84.098  35.933  1.00147.54       LS12
ATOM  45726  CA  GLU L 127     171.590  85.246  36.843  1.00147.54       LS12
ATOM  45727  CB  GLU L 127     170.888  86.436  36.183  1.00201.26       LS12
ATOM  45728  CG  GLU L 127     169.461  86.158  35.746  1.00201.26       LS12
ATOM  45729  CD  GLU L 127     168.823  87.349  35.063  1.00201.26       LS12
ATOM  45730  OE1 GLU L 127     168.716  88.416  35.706  1.00201.26       LS12
ATOM  45731  OE2 GLU L 127     168.432  87.218  33.884  1.00201.26       LS12
ATOM  45732  C   GLU L 127     170.968  84.981  38.210  1.00147.54       LS12
ATOM  45733  O   GLU L 127     169.744  84.904  38.351  1.00147.54       LS12
ATOM  45734  N   ALA L 128     171.831  84.845  39.212  1.00201.26       LS12
ATOM  45735  CA  ALA L 128     171.408  84.591  40.583  1.00201.26       LS12
ATOM  45736  CB  ALA L 128     172.637  84.419  41.485  1.00129.91       LS12
ATOM  45737  C   ALA L 128     170.534  85.733  41.093  1.00201.26       LS12
ATOM  45738  O   ALA L 128     170.985  86.445  42.017  1.00201.26       LS12
ATOM  45739  OXT ALA L 128     169.415  85.908  40.558  1.00129.91       LS12
TER   45739       ALA L 128                                              LS12
ATOM  45740  CB  ALA M   2     280.303 115.863  -8.361  1.00119.84       MS13
ATOM  45741  C   ALA M   2     278.336 114.444  -7.805  1.00 46.11       MS13
ATOM  45742  O   ALA M   2     277.386 114.702  -7.079  1.00 46.11       MS13
ATOM  45743  N   ALA M   2     278.005 116.702  -8.742  1.00 46.11       MS13
ATOM  45744  CA  ALA M   2     278.879 115.491  -8.758  1.00 46.11       MS13
ATOM  45745  N   ARG M   3     278.943 113.265  -7.804  1.00 58.82       MS13
ATOM  45746  CA  ARG M   3     278.494 112.187  -6.932  1.00 58.82       MS13
ATOM  45747  CB  ARG M   3     279.248 110.889  -7.235  1.00201.26       MS13
ATOM  45748  CG  ARG M   3     278.986 110.325  -8.616  1.00201.26       MS13
ATOM  45749  CD  ARG M   3     279.640 108.970  -8.805  1.00201.26       MS13
ATOM  45750  NE  ARG M   3     279.409 108.450 -10.149  1.00201.26       MS13
ATOM  45751  CZ  ARG M   3     279.911 107.309 -10.609  1.00201.26       MS13
ATOM  45752  NH1 ARG M   3     280.677 106.557  -9.830  1.00201.26       MS13
ATOM  45753  NH2 ARG M   3     279.651 106.921 -11.850  1.00201.26       MS13
ATOM  45754  C   ARG M   3     278.691 112.543  -5.478  1.00 58.82       MS13
ATOM  45755  O   ARG M   3     279.644 112.079  -4.859  1.00 58.82       MS13
ATOM  45756  N   ILE M   4     277.783 113.352  -4.936  1.00 73.40       MS13
ATOM  45757  CA  ILE M   4     277.857 113.780  -3.544  1.00 73.40       MS13
ATOM  45758  CB  ILE M   4     277.091 115.117  -3.332  1.00 25.32       MS13
ATOM  45759  CG2 ILE M   4     276.791 115.362  -1.857  1.00 25.32       MS13
ATOM  45760  CG1 ILE M   4     277.936 116.269  -3.881  1.00 25.32       MS13
ATOM  45761  CD1 ILE M   4     277.356 117.660  -3.617  1.00 25.32       MS13
ATOM  45762  C   ILE M   4     277.362 112.722  -2.561  1.00 73.40       MS13
ATOM  45763  O   ILE M   4     278.096 111.793  -2.230  1.00 73.40       MS13
ATOM  45764  N   ALA M   5     276.127 112.845  -2.095  1.00 50.76       MS13
ATOM  45765  CA  ALA M   5     275.614 111.879  -1.132  1.00 50.76       MS13
ATOM  45766  CB  ALA M   5     274.142 112.121  -0.884  1.00169.38       MS13
ATOM  45767  C   ALA M   5     275.836 110.479  -1.667  1.00 50.76       MS13
ATOM  45768  O   ALA M   5     276.215 110.315  -2.831  1.00 50.76       MS13
ATOM  45769  N   GLY M   6     275.616 109.475  -0.824  1.00 66.42       MS13
ATOM  45770  CA  GLY M   6     275.803 108.108  -1.276  1.00 66.42       MS13
ATOM  45771  C   GLY M   6     275.204 107.917  -2.663  1.00 66.42       MS13
ATOM  45772  O   GLY M   6     274.075 108.337  -2.912  1.00 66.42       MS13
ATOM  45773  N   VAL M   7     275.958 107.303  -3.571  1.00112.49       MS13
ATOM  45774  CA  VAL M   7     275.502 107.049  -4.941  1.00112.49       MS13
ATOM  45775  CB  VAL M   7     274.738 105.694  -5.041  1.00185.46       MS13
ATOM  45776  CG1 VAL M   7     275.614 104.564  -4.518  1.00185.46       MS13
ATOM  45777  CG2 VAL M   7     273.426 105.761  -4.265  1.00185.46       MS13
ATOM  45778  C   VAL M   7     274.606 108.147  -5.512  1.00112.49       MS13
ATOM  45779  O   VAL M   7     273.817 107.902  -6.426  1.00112.49       MS13
ATOM  45780  N   GLU M   8     274.730 109.354  -4.973  1.00 74.93       MS13
ATOM  45781  CA  GLU M   8     273.926 110.477  -5.435  1.00 74.93       MS13
ATOM  45782  CB  GLU M   8     273.598 111.424  -4.279  1.00201.26       MS13
ATOM  45783  CG  GLU M   8     272.470 110.945  -3.378  1.00201.26       MS13
ATOM  45784  CD  GLU M   8     271.139 110.840  -4.103  1.00201.26       MS13
ATOM  45785  OE1 GLU M   8     270.125 110.541  -3.440  1.00201.26       MS13
ATOM  45786  OE2 GLU M   8     271.105 111.055  -5.333  1.00201.26       MS13
ATOM  45787  C   GLU M   8     274.680 111.228  -6.508  1.00 74.93       MS13
ATOM  45788  O   GLU M   8     275.907 111.263  -6.496  1.00 74.93       MS13
ATOM  45789  N   ILE M   9     273.939 111.836  -7.428  1.00 77.01       MS13
ATOM  45790  CA  ILE M   9     274.545 112.570  -8.526  1.00 77.01       MS13
ATOM  45791  CB  ILE M   9     274.904 111.619  -9.696  1.00 84.44       MS13
ATOM  45792  CG2 ILE M   9     276.395 111.655  -9.958  1.00 84.44       MS13
ATOM  45793  CG1 ILE M   9     274.440 110.189  -9.388  1.00 84.44       MS13
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ATOM  45794  CD1 ILE M   9     272.932 109.969  -9.465  1.00 84.44       MS13
ATOM  45795  C   ILE M   9     273.653 113.672  -9.087  1.00 77.01       MS13
ATOM  45796  O   ILE M   9     273.188 113.573 -10.218  1.00 77.01       MS13
ATOM  45797  N   PRO M  10     273.397 114.737  -8.312  1.00 87.15       MS13
ATOM  45798  CD  PRO M  10     273.906 115.064  -6.969  1.00 77.70       MS13
ATOM  45799  CA  PRO M  10     272.544 115.819  -8.828  1.00 87.15       MS13
ATOM  45800  CB  PRO M  10     272.359 116.705  -7.602  1.00 77.70       MS13
ATOM  45801  CG  PRO M  10     273.681 116.560  -6.895  1.00 77.70       MS13
ATOM  45802  C   PRO M  10     273.300 116.530  -9.942  1.00 87.15       MS13
ATOM  45803  O   PRO M  10     274.504 116.729  -9.807  1.00 87.15       MS13
ATOM  45804  N   ARG M  11     272.646 116.918 -11.036  1.00 65.76       MS13
ATOM  45805  CA  ARG M  11     273.443 117.586 -12.066  1.00 65.76       MS13
ATOM  45806  CB  ARG M  11     274.218 116.537 -12.867  1.00199.16       MS13
ATOM  45807  CG  ARG M  11     275.269 117.141 -13.781  1.00199.16       MS13
ATOM  45808  CD  ARG M  11     276.249 116.113 -14.290  1.00199.16       MS13
ATOM  45809  NE  ARG M  11     277.291 116.743 -15.092  1.00199.16       MS13
ATOM  45810  CZ  ARG M  11     278.345 116.103 -15.587  1.00199.16       MS13
ATOM  45811  NH1 ARG M  11     278.502 114.806 -15.360  1.00199.16       MS13
ATOM  45812  NH2 ARG M  11     279.240 116.761 -16.309  1.00199.16       MS13
ATOM  45813  C   ARG M  11     272.820 118.585 -13.045  1.00 65.76       MS13
ATOM  45814  O   ARG M  11     271.598 118.650 -13.205  1.00 65.76       MS13
ATOM  45815  N   ASN M  12     273.700 119.365 -13.683  1.00 38.23       MS13
ATOM  45816  CA  ASN M  12     273.344 120.373 -14.678  1.00 38.23       MS13
ATOM  45817  CB  ASN M  12     273.044 119.677 -16.010  1.00 76.89       MS13
ATOM  45818  CG  ASN M  12     272.618 120.647 -17.102  1.00 76.89       MS13
ATOM  45819  OD1 ASN M  12     273.262 121.672 -17.323  1.00 76.89       MS13
ATOM  45820  ND2 ASN M  12     271.529 120.320 -17.797  1.00 76.89       MS13
ATOM  45821  C   ASN M  12     272.194 121.333 -14.316  1.00 38.23       MS13
ATOM  45822  O   ASN M  12     271.508 121.855 -15.197  1.00 38.23       MS13
ATOM  45823  N   LYS M  13     271.988 121.591 -13.027  1.00 54.69       MS13
ATOM  45824  CA  LYS M  13     270.926 122.500 -12.610  1.00 54.69       MS13
ATOM  45825  CB  LYS M  13     269.570 121.793 -12.701  1.00104.84       MS13
ATOM  45826  CG  LYS M  13     268.365 122.731 -12.684  1.00104.84       MS13
ATOM  45827  CD  LYS M  13     267.025 122.010 -12.441  1.00104.84       MS13
ATOM  45828  CE  LYS M  13     266.796 120.815 -13.362  1.00104.84       MS13
ATOM  45829  NZ  LYS M  13     267.579 119.618 -12.938  1.00104.84       MS13
ATOM  45830  C   LYS M  13     271.180 122.913 -11.169  1.00 54.69       MS13
ATOM  45831  O   LYS M  13     271.501 122.063 -10.338  1.00 54.69       MS13
ATOM  45832  N   ARG M  14     271.050 124.210 -10.882  1.00 35.87       MS13
ATOM  45833  CA  ARG M  14     271.225 124.764  -9.525  1.00 35.87       MS13
ATOM  45834  CB  ARG M  14     269.956 125.511  -9.119  1.00 43.08       MS13
ATOM  45835  CG  ARG M  14     269.861 126.922  -9.588  1.00 43.08       MS13
ATOM  45836  CD  ARG M  14     268.955 127.637  -8.633  1.00 43.08       MS13
ATOM  45837  NE  ARG M  14     269.172 129.076  -8.601  1.00 43.08       MS13
ATOM  45838  CZ  ARG M  14     269.032 129.824  -7.505  1.00 43.08       MS13
ATOM  45839  NH1 ARG M  14     268.681 129.267  -6.347  1.00 43.08       MS13
ATOM  45840  NH2 ARG M  14     269.228 131.137  -7.562  1.00 43.08       MS13
ATOM  45841  C   ARG M  14     271.578 123.782  -8.383  1.00 35.87       MS13
ATOM  45842  O   ARG M  14     270.815 122.867  -8.071  1.00 35.87       MS13
ATOM  45843  N   VAL M  15     272.708 124.007  -7.725  1.00 45.74       MS13
ATOM  45844  CA  VAL M  15     273.138 123.123  -6.648  1.00 45.74       MS13
ATOM  45845  CB  VAL M  15     274.489 123.567  -6.063  1.00 39.73       MS13
ATOM  45846  CG1 VAL M  15     274.869 122.696  -4.854  1.00 39.73       MS13
ATOM  45847  CG2 VAL M  15     275.545 123.460  -7.140  1.00 39.73       MS13
ATOM  45848  C   VAL M  15     272.160 122.931  -5.504  1.00 45.74       MS13
ATOM  45849  O   VAL M  15     272.114 121.851  -4.916  1.00 45.74       MS13
ATOM  45850  N   ASP M  16     271.396 123.959  -5.154  1.00 65.67       MS13
ATOM  45851  CA  ASP M  16     270.432 123.779  -4.072  1.00 65.67       MS13
ATOM  45852  CB  ASP M  16     269.688 125.081  -3.768  1.00 65.53       MS13
ATOM  45853  CG  ASP M  16     269.528 125.956  -4.984  1.00 65.53       MS13
ATOM  45854  OD1 ASP M  16     269.344 125.420  -6.096  1.00 65.53       MS13
ATOM  45855  OD2 ASP M  16     269.577 127.191  -4.823  1.00 65.53       MS13
ATOM  45856  C   ASP M  16     269.451 122.726  -4.558  1.00 65.67       MS13
ATOM  45857  O   ASP M  16     269.445 121.584  -4.088  1.00 65.67       MS13
ATOM  45858  N   VAL M  17     268.634 123.138  -5.520  1.00 55.96       MS13
ATOM  45859  CA  VAL M  17     267.644 122.286  -6.151  1.00 55.96       MS13
ATOM  45860  CB  VAL M  17     267.290 122.846  -7.539  1.00 28.22       MS13
ATOM  45861  CG1 VAL M  17     266.695 121.769  -8.388  1.00 28.22       MS13
ATOM  45862  CG2 VAL M  17     266.314 124.009  -7.407  1.00 28.22       MS13
ATOM  45863  C   VAL M  17     268.228 120.894  -6.320  1.00 55.96       MS13
ATOM  45864  O   VAL M  17     267.619 119.887  -5.948  1.00 55.96       MS13
ATOM  45865  N   ALA M  18     269.428 120.862  -6.886  1.00 37.14       MS13
ATOM  45866  CA  ALA M  18     270.135 119.617  -7.143  1.00 37.14       MS13
ATOM  45867  CB  ALA M  18     271.506 119.922  -7.752  1.00  9.07       MS13
ATOM  45868  C   ALA M  18     270.283 118.767  -5.888  1.00 37.14       MS13
ATOM  45869  O   ALA M  18     269.886 117.611  -5.866  1.00 37.14       MS13
ATOM  45870  N   LEU M  19     270.855 119.341  -4.843  1.00 50.18       MS13
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ATOM  45871  CA  LEU M  19     271.047 118.612  -3.603  1.00 50.18      MS13
ATOM  45872  CB  LEU M  19     271.608 119.550  -2.545  1.00 52.13      MS13
ATOM  45873  CG  LEU M  19     273.111 119.758  -2.654  1.00 52.13      MS13
ATOM  45874  CD1 LEU M  19     273.511 120.993  -1.878  1.00 52.13      MS13
ATOM  45875  CD2 LEU M  19     273.819 118.517  -2.131  1.00 52.13      MS13
ATOM  45876  C   LEU M  19     269.759 117.978  -3.103  1.00 50.18      MS13
ATOM  45877  O   LEU M  19     269.788 116.955  -2.404  1.00 50.18      MS13
ATOM  45878  N   THR M  20     268.632 118.593  -3.458  1.00 41.46      MS13
ATOM  45879  CA  THR M  20     267.326 118.090  -3.055  1.00 41.46      MS13
ATOM  45880  CB  THR M  20     266.205 118.874  -3.728  1.00103.84      MS13
ATOM  45881  OG1 THR M  20     266.523 120.267  -3.706  1.00103.84      MS13
ATOM  45882  CG2 THR M  20     264.903 118.659  -2.993  1.00103.84      MS13
ATOM  45883  C   THR M  20     267.215 116.635  -3.496  1.00 41.46      MS13
ATOM  45884  O   THR M  20     266.675 115.779  -2.770  1.00 41.46      MS13
ATOM  45885  N   TYR M  21     267.741 116.367  -4.692  1.00 42.80      MS13
ATOM  45886  CA  TYR M  21     267.720 115.032  -5.274  1.00 42.80      MS13
ATOM  45887  CB  TYR M  21     268.395 115.031  -6.640  1.00 80.24      MS13
ATOM  45888  CG  TYR M  21     267.516 115.662  -7.679  1.00 80.24      MS13
ATOM  45889  CD1 TYR M  21     267.113 116.990  -7.555  1.00 80.24      MS13
ATOM  45890  CE1 TYR M  21     266.253 117.564  -8.473  1.00 80.24      MS13
ATOM  45891  CD2 TYR M  21     267.037 114.923  -8.756  1.00 80.24      MS13
ATOM  45892  CE2 TYR M  21     266.173 115.488  -9.684  1.00 80.24      MS13
ATOM  45893  CZ  TYR M  21     265.784 116.811  -9.538  1.00 80.24      MS13
ATOM  45894  OH  TYR M  21     264.926 117.387 -10.454  1.00 80.24      MS13
ATOM  45895  C   TYR M  21     268.333 113.976  -4.391  1.00 42.80      MS13
ATOM  45896  O   TYR M  21     268.150 112.779  -4.632  1.00 42.80      MS13
ATOM  45897  N   ILE M  22     269.070 114.406  -3.373  1.00 52.35      MS13
ATOM  45898  CA  ILE M  22     269.649 113.448  -2.456  1.00 52.35      MS13
ATOM  45899  CB  ILE M  22     270.754 114.075  -1.580  1.00 61.40      MS13
ATOM  45900  CG2 ILE M  22     271.127 113.122  -0.459  1.00 61.40      MS13
ATOM  45901  CG1 ILE M  22     272.002 114.365  -2.422  1.00 61.40      MS13
ATOM  45902  CD1 ILE M  22     271.840 115.475  -3.433  1.00 61.40      MS13
ATOM  45903  C   ILE M  22     268.455 113.023  -1.605  1.00 52.35      MS13
ATOM  45904  O   ILE M  22     267.447 113.751  -1.527  1.00 52.35      MS13
ATOM  45905  N   TYR M  23     268.549 111.852  -0.980  1.00 69.86      MS13
ATOM  45906  CA  TYR M  23     267.436 111.362  -0.187  1.00 69.86      MS13
ATOM  45907  CB  TYR M  23     267.686 109.935   0.285  1.00 73.39      MS13
ATOM  45908  CG  TYR M  23     266.457 109.322   0.909  1.00 73.39      MS13
ATOM  45909  CD1 TYR M  23     265.226 109.359   0.249  1.00 73.39      MS13
ATOM  45910  CE1 TYR M  23     264.069 108.836   0.838  1.00 73.39      MS13
ATOM  45911  CD2 TYR M  23     266.508 108.737   2.174  1.00 73.39      MS13
ATOM  45912  CE2 TYR M  23     265.356 108.206   2.774  1.00 73.39      MS13
ATOM  45913  CZ  TYR M  23     264.142 108.262   2.103  1.00 73.39      MS13
ATOM  45914  OH  TYR M  23     263.005 107.760   2.702  1.00 73.39      MS13
ATOM  45915  C   TYR M  23     267.068 112.228   1.001  1.00 69.86      MS13
ATOM  45916  O   TYR M  23     266.034 112.878   0.987  1.00 69.86      MS13
ATOM  45917  N   GLY M  24     267.904 112.249   2.030  1.00 57.63      MS13
ATOM  45918  CA  GLY M  24     267.574 113.040   3.205  1.00 57.63      MS13
ATOM  45919  C   GLY M  24     267.786 114.538   3.109  1.00 57.63      MS13
ATOM  45920  O   GLY M  24     268.174 115.167   4.088  1.00 57.63      MS13
ATOM  45921  N   ILE M  25     267.521 115.122   1.948  1.00 50.52      MS13
ATOM  45922  CA  ILE M  25     267.716 116.559   1.784  1.00 50.52      MS13
ATOM  45923  CB  ILE M  25     268.973 116.867   0.941  1.00 53.47      MS13
ATOM  45924  CG2 ILE M  25     269.290 118.357   1.008  1.00 53.47      MS13
ATOM  45925  CG1 ILE M  25     270.165 116.076   1.469  1.00 53.47      MS13
ATOM  45926  CD1 ILE M  25     271.402 116.292   0.669  1.00 53.47      MS13
ATOM  45927  C   ILE M  25     266.536 117.238   1.116  1.00 50.52      MS13
ATOM  45928  O   ILE M  25     265.886 116.661   0.243  1.00 50.52      MS13
ATOM  45929  N   GLY M  26     266.274 118.472   1.527  1.00 60.26      MS13
ATOM  45930  CA  GLY M  26     265.176 119.227   0.958  1.00 60.26      MS13
ATOM  45931  C   GLY M  26     265.535 120.694   0.911  1.00 60.26      MS13
ATOM  45932  O   GLY M  26     266.572 121.072   1.442  1.00 60.26      MS13
ATOM  45933  N   LYS M  27     264.690 121.516   0.287  1.00 75.80      MS13
ATOM  45934  CA  LYS M  27     264.941 122.955   0.180  1.00 75.80      MS13
ATOM  45935  CB  LYS M  27     263.638 123.706  -0.127  1.00154.00      MS13
ATOM  45936  CG  LYS M  27     263.434 124.056  -1.602  1.00154.00      MS13
ATOM  45937  CD  LYS M  27     264.421 125.128  -2.071  1.00154.00      MS13
ATOM  45938  CE  LYS M  27     264.153 125.551  -3.514  1.00154.00      MS13
ATOM  45939  NZ  LYS M  27     265.026 126.682  -3.947  1.00154.00      MS13
ATOM  45940  C   LYS M  27     265.564 123.510   1.454  1.00 75.80      MS13
ATOM  45941  O   LYS M  27     266.213 124.552   1.438  1.00 75.80      MS13
ATOM  45942  N   ALA M  28     265.356 122.806   2.559  1.00 83.97      MS13
ATOM  45943  CA  ALA M  28     265.908 123.209   3.839  1.00 83.97      MS13
ATOM  45944  CB  ALA M  28     265.240 122.433   4.943  1.00 25.39      MS13
ATOM  45945  C   ALA M  28     267.411 122.950   3.864  1.00 83.97      MS13
ATOM  45946  O   ALA M  28     268.213 123.819   3.533  1.00 83.97      MS13
ATOM  45947  N   ARG M  29     267.777 121.739   4.262  1.00 44.47      MS13
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ATOM  45948  CA  ARG M  29     269.170 121.327   4.348  1.00 44.47      MS13
ATOM  45949  CB  ARG M  29     269.224 119.813   4.479  1.00 43.66      MS13
ATOM  45950  CG  ARG M  29     268.481 119.352   5.702  1.00 43.66      MS13
ATOM  45951  CD  ARG M  29     268.611 117.881   5.926  1.00 43.66      MS13
ATOM  45952  NE  ARG M  29     268.593 117.603   7.352  1.00 43.66      MS13
ATOM  45953  CZ  ARG M  29     268.679 116.386   7.868  1.00 43.66      MS13
ATOM  45954  NH1 ARG M  29     268.783 115.328   7.072  1.00 43.66      MS13
ATOM  45955  NH2 ARG M  29     268.674 116.230   9.184  1.00 43.66      MS13
ATOM  45956  C   ARG M  29     270.048 121.786   3.190  1.00 44.47      MS13
ATOM  45957  O   ARG M  29     271.231 122.075   3.382  1.00 44.47      MS13
ATOM  45958  N   ALA M  30     269.477 121.845   1.992  1.00 54.85      MS13
ATOM  45959  CA  ALA M  30     270.220 122.289   0.820  1.00 54.85      MS13
ATOM  45960  CB  ALA M  30     269.339 122.225  -0.416  1.00130.73      MS13
ATOM  45961  C   ALA M  30     270.688 123.719   1.060  1.00 54.85      MS13
ATOM  45962  O   ALA M  30     271.886 124.001   1.032  1.00 54.85      MS13
ATOM  45963  N   LYS M  31     269.739 124.621   1.298  1.00 49.42      MS13
ATOM  45964  CA  LYS M  31     270.074 126.017   1.561  1.00 49.42      MS13
ATOM  45965  CB  LYS M  31     268.815 126.844   1.827  1.00143.81      MS13
ATOM  45966  CG  LYS M  31     269.112 128.256   2.316  1.00143.81      MS13
ATOM  45967  CD  LYS M  31     267.846 129.074   2.492  1.00143.81      MS13
ATOM  45968  CE  LYS M  31     267.152 129.316   1.161  1.00143.81      MS13
ATOM  45969  NZ  LYS M  31     265.945 130.174   1.319  1.00143.81      MS13
ATOM  45970  C   LYS M  31     270.989 126.105   2.770  1.00 49.42      MS13
ATOM  45971  O   LYS M  31     271.813 127.010   2.868  1.00 49.42      MS13
ATOM  45972  N   GLU M  32     270.838 125.164   3.697  1.00 43.51      MS13
ATOM  45973  CA  GLU M  32     271.675 125.155   4.883  1.00 43.51      MS13
ATOM  45974  CB  GLU M  32     271.199 124.107   5.885  1.00133.44      MS13
ATOM  45975  CG  GLU M  32     271.814 124.292   7.258  1.00133.44      MS13
ATOM  45976  CD  GLU M  32     271.470 123.171   8.211  1.00133.44      MS13
ATOM  45977  OE1 GLU M  32     271.973 122.050   8.003  1.00133.44      MS13
ATOM  45978  OE2 GLU M  32     270.697 123.406   9.166  1.00133.44      MS13
ATOM  45979  C   GLU M  32     273.096 124.836   4.455  1.00 43.51      MS13
ATOM  45980  O   GLU M  32     273.941 125.721   4.407  1.00 43.51      MS13
ATOM  45981  N   ALA M  33     273.346 123.570   4.127  1.00 44.06      MS13
ATOM  45982  CA  ALA M  33     274.674 123.121   3.707  1.00 44.06      MS13
ATOM  45983  CB  ALA M  33     274.608 121.676   3.224  1.00 29.65      MS13
ATOM  45984  C   ALA M  33     275.289 124.010   2.628  1.00 44.06      MS13
ATOM  45985  O   ALA M  33     276.472 124.329   2.676  1.00 44.06      MS13
ATOM  45986  N   LEU M  34     274.490 124.413   1.652  1.00 73.61      MS13
ATOM  45987  CA  LEU M  34     275.017 125.266   0.602  1.00 73.61      MS13
ATOM  45988  CB  LEU M  34     273.951 125.531  -0.463  1.00 72.64      MS13
ATOM  45989  CG  LEU M  34     274.279 125.011  -1.866  1.00 72.64      MS13
ATOM  45990  CD1 LEU M  34     273.117 125.280  -2.789  1.00 72.64      MS13
ATOM  45991  CD2 LEU M  34     275.523 125.691  -2.397  1.00 72.64      MS13
ATOM  45992  C   LEU M  34     275.449 126.572   1.241  1.00 73.61      MS13
ATOM  45993  O   LEU M  34     276.253 127.320   0.689  1.00 73.61      MS13
ATOM  45994  N   GLU M  35     274.918 126.832   2.426  1.00 63.99      MS13
ATOM  45995  CA  GLU M  35     275.230 128.057   3.141  1.00 63.99      MS13
ATOM  45996  CB  GLU M  35     273.985 128.545   3.882  1.00201.26      MS13
ATOM  45997  CG  GLU M  35     274.050 129.979   4.358  1.00201.26      MS13
ATOM  45998  CD  GLU M  35     272.670 130.560   4.595  1.00201.26      MS13
ATOM  45999  OE1 GLU M  35     271.892 129.958   5.366  1.00201.26      MS13
ATOM  46000  OE2 GLU M  35     272.363 131.618   4.005  1.00201.26      MS13
ATOM  46001  C   GLU M  35     276.395 127.874   4.107  1.00 63.99      MS13
ATOM  46002  O   GLU M  35     277.263 128.735   4.202  1.00 63.99      MS13
ATOM  46003  N   LYS M  36     276.421 126.763   4.834  1.00 80.07      MS13
ATOM  46004  CA  LYS M  36     277.525 126.539   5.751  1.00 80.07      MS13
ATOM  46005  CB  LYS M  36     277.276 125.311   6.633  1.00121.93      MS13
ATOM  46006  CG  LYS M  36     276.449 125.611   7.877  1.00121.93      MS13
ATOM  46007  CD  LYS M  36     276.529 124.471   8.885  1.00121.93      MS13
ATOM  46008  CE  LYS M  36     275.743 124.782  10.158  1.00121.93      MS13
ATOM  46009  NZ  LYS M  36     275.784 123.663  11.147  1.00121.93      MS13
ATOM  46010  C   LYS M  36     278.797 126.361   4.933  1.00 80.07      MS13
ATOM  46011  O   LYS M  36     279.821 126.980   5.220  1.00 80.07      MS13
ATOM  46012  N   THR M  37     278.729 125.524   3.904  1.00 71.86      MS13
ATOM  46013  CA  THR M  37     279.881 125.298   3.041  1.00 71.86      MS13
ATOM  46014  CB  THR M  37     279.811 123.915   2.371  1.00 70.89      MS13
ATOM  46015  OG1 THR M  37     279.695 122.902   3.377  1.00 70.89      MS13
ATOM  46016  CG2 THR M  37     281.063 123.657   1.566  1.00 70.89      MS13
ATOM  46017  C   THR M  37     279.879 126.391   1.974  1.00 71.86      MS13
ATOM  46018  O   THR M  37     279.857 126.116   0.780  1.00 71.86      MS13
ATOM  46019  N   GLY M  38     279.888 127.634   2.444  1.00 71.88      MS13
ATOM  46020  CA  GLY M  38     279.876 128.807   1.588  1.00 71.88      MS13
ATOM  46021  C   GLY M  38     280.027 128.616   0.095  1.00 71.88      MS13
ATOM  46022  O   GLY M  38     281.140 128.566  -0.420  1.00 71.88      MS13
ATOM  46023  N   ILE M  39     278.899 128.521  -0.600  1.00 83.04      MS13
ATOM  46024  CA  ILE M  39     278.872 128.351  -2.052  1.00 83.04      MS13
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ATOM  46025  CB  ILE M  39     278.738 126.862  -2.466  1.00 29.09      MS13
ATOM  46026  CG2 ILE M  39     278.481 126.757  -3.958  1.00 29.09      MS13
ATOM  46027  CG1 ILE M  39     279.995 126.079  -2.107  1.00 29.09      MS13
ATOM  46028  CD1 ILE M  39     279.866 124.590  -2.379  1.00 29.09      MS13
ATOM  46029  C   ILE M  39     277.627 129.059  -2.553  1.00 83.04      MS13
ATOM  46030  O   ILE M  39     276.551 128.874  -1.991  1.00 83.04      MS13
ATOM  46031  N   ASN M  40     277.754 129.870  -3.595  1.00 92.90      MS13
ATOM  46032  CA  ASN M  40     276.577 130.545  -4.122  1.00 92.90      MS13
ATOM  46033  CB  ASN M  40     276.914 131.341  -5.377  1.00142.07      MS13
ATOM  46034  CG  ASN M  40     275.693 131.993  -5.993  1.00142.07      MS13
ATOM  46035  OD1 ASN M  40     275.786 132.652  -7.029  1.00142.07      MS13
ATOM  46036  ND2 ASN M  40     274.538 131.815  -5.356  1.00142.07      MS13
ATOM  46037  C   ASN M  40     275.588 129.447  -4.474  1.00 92.90      MS13
ATOM  46038  O   ASN M  40     275.872 128.598  -5.318  1.00 92.90      MS13
ATOM  46039  N   PRO M  41     274.416 129.442  -3.823  1.00 84.08      MS13
ATOM  46040  CD  PRO M  41     273.980 130.378  -2.775  1.00135.57      MS13
ATOM  46041  CA  PRO M  41     273.386 128.433  -4.072  1.00 84.08      MS13
ATOM  46042  CB  PRO M  41     272.213 128.937  -3.246  1.00135.57      MS13
ATOM  46043  CG  PRO M  41     272.891 129.590  -2.090  1.00135.57      MS13
ATOM  46044  C   PRO M  41     273.037 128.306  -5.542  1.00 84.08      MS13
ATOM  46045  O   PRO M  41     272.781 127.208  -6.037  1.00 84.08      MS13
ATOM  46046  N   ALA M  42     273.050 129.441  -6.235  1.00 64.50      MS13
ATOM  46047  CA  ALA M  42     272.714 129.503  -7.654  1.00 64.50      MS13
ATOM  46048  CB  ALA M  42     272.412 130.931  -8.025  1.00 11.89      MS13
ATOM  46049  C   ALA M  42     273.732 128.926  -8.643  1.00 64.50      MS13
ATOM  46050  O   ALA M  42     273.453 128.844  -9.841  1.00 64.50      MS13
ATOM  46051  N   THR M  43     274.907 128.538  -8.167  1.00 75.83      MS13
ATOM  46052  CA  THR M  43     275.909 127.981  -9.064  1.00 75.83      MS13
ATOM  46053  CB  THR M  43     277.218 127.689  -8.315  1.00147.80      MS13
ATOM  46054  OG1 THR M  43     276.951 126.822  -7.206  1.00147.80      MS13
ATOM  46055  CG2 THR M  43     277.837 128.981  -7.803  1.00147.80      MS13
ATOM  46056  C   THR M  43     275.379 126.685  -9.669  1.00 75.83      MS13
ATOM  46057  O   THR M  43     274.878 125.823  -8.946  1.00 75.83      MS13
ATOM  46058  N   ARG M  44     275.467 126.555 -10.991  1.00 51.93      MS13
ATOM  46059  CA  ARG M  44     274.996 125.344 -11.663  1.00 51.93      MS13
ATOM  46060  CB  ARG M  44     275.093 125.514 -13.172  1.00 97.99      MS13
ATOM  46061  CG  ARG M  44     273.839 125.112 -13.907  1.00 97.99      MS13
ATOM  46062  CD  ARG M  44     272.662 125.965 -13.474  1.00 97.99      MS13
ATOM  46063  NE  ARG M  44     271.485 125.739 -14.303  1.00 97.99      MS13
ATOM  46064  CZ  ARG M  44     270.371 126.452 -14.210  1.00 97.99      MS13
ATOM  46065  NH1 ARG M  44     270.286 127.430 -13.321  1.00 97.99      MS13
ATOM  46066  NH2 ARG M  44     269.349 126.197 -15.011  1.00 97.99      MS13
ATOM  46067  C   ARG M  44     275.904 124.216 -11.208  1.00 51.93      MS13
ATOM  46068  O   ARG M  44     277.105 124.423 -11.071  1.00 51.93      MS13
ATOM  46069  N   VAL M  45     275.358 123.029 -10.971  1.00 44.83      MS13
ATOM  46070  CA  VAL M  45     276.202 121.934 -10.502  1.00 44.83      MS13
ATOM  46071  CB  VAL M  45     275.399 120.650 -10.249  1.00 63.31      MS13
ATOM  46072  CG1 VAL M  45     276.306 119.578  -9.646  1.00 63.31      MS13
ATOM  46073  CG2 VAL M  45     274.251 120.945  -9.307  1.00 63.31      MS13
ATOM  46074  C   VAL M  45     277.339 121.613 -11.460  1.00 44.83      MS13
ATOM  46075  O   VAL M  45     278.364 121.066 -11.049  1.00 44.83      MS13
ATOM  46076  N   LYS M  46     277.170 121.948 -12.735  1.00 78.79      MS13
ATOM  46077  CA  LYS M  46     278.225 121.689 -13.704  1.00 78.79      MS13
ATOM  46078  CB  LYS M  46     277.691 121.823 -15.131  1.00124.55      MS13
ATOM  46079  CG  LYS M  46     276.976 123.121 -15.403  1.00124.55      MS13
ATOM  46080  CD  LYS M  46     277.634 123.903 -16.531  1.00124.55      MS13
ATOM  46081  CE  LYS M  46     279.048 124.351 -16.167  1.00124.55      MS13
ATOM  46082  NZ  LYS M  46     279.613 125.334 -17.147  1.00124.55      MS13
ATOM  46083  C   LYS M  46     279.372 122.668 -13.472  1.00 78.79      MS13
ATOM  46084  O   LYS M  46     280.519 122.379 -13.811  1.00 78.79      MS13
ATOM  46085  N   ASP M  47     279.049 123.819 -12.879  1.00 61.71      MS13
ATOM  46086  CA  ASP M  47     280.026 124.867 -12.574  1.00 61.71      MS13
ATOM  46087  CB  ASP M  47     279.354 126.244 -12.596  1.00143.87      MS13
ATOM  46088  CG  ASP M  47     278.904 126.657 -13.984  1.00143.87      MS13
ATOM  46089  OD1 ASP M  47     279.770 126.838 -14.865  1.00143.87      MS13
ATOM  46090  OD2 ASP M  47     277.681 126.802 -14.194  1.00143.87      MS13
ATOM  46091  C   ASP M  47     280.684 124.657 -11.209  1.00 61.71      MS13
ATOM  46092  O   ASP M  47     281.608 125.379 -10.827  1.00 61.71      MS13
ATOM  46093  N   LEU M  48     280.199 123.673 -10.466  1.00 93.25      MS13
ATOM  46094  CA  LEU M  48     280.767 123.396  -9.163  1.00 93.25      MS13
ATOM  46095  CB  LEU M  48     280.030 122.248  -8.483  1.00 68.58      MS13
ATOM  46096  CG  LEU M  48     278.760 122.611  -7.725  1.00 68.58      MS13
ATOM  46097  CD1 LEU M  48     278.274 121.384  -6.967  1.00 68.58      MS13
ATOM  46098  CD2 LEU M  48     279.047 123.761  -6.762  1.00 68.58      MS13
ATOM  46099  C   LEU M  48     282.234 123.039  -9.289  1.00 93.25      MS13
ATOM  46100  O   LEU M  48     282.626 122.278 -10.178  1.00 93.25      MS13
ATOM  46101  N   THR M  49     283.033 123.589  -8.381  1.00 59.46      MS13
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ATOM  46102  CA  THR M  49     284.469 123.352  -8.347  1.00 59.46      MS13
ATOM  46103  CB  THR M  49     285.184 124.491  -7.673  1.00 31.77      MS13
ATOM  46104  OG1 THR M  49     285.009 125.681  -8.446  1.00 31.77      MS13
ATOM  46105  CG2 THR M  49     286.647 124.169  -7.538  1.00 31.77      MS13
ATOM  46106  C   THR M  49     284.822 122.104  -7.566  1.00 59.46      MS13
ATOM  46107  O   THR M  49     284.163 121.793  -6.578  1.00 59.46      MS13
ATOM  46108  N   GLU M  50     285.872 121.402  -7.992  1.00 72.51      MS13
ATOM  46109  CA  GLU M  50     286.296 120.195  -7.294  1.00 72.51      MS13
ATOM  46110  CB  GLU M  50     287.614 119.670  -7.859  1.00161.07      MS13
ATOM  46111  CG  GLU M  50     287.959 118.283  -7.354  1.00161.07      MS13
ATOM  46112  CD  GLU M  50     286.821 117.300  -7.567  1.00161.07      MS13
ATOM  46113  OE1 GLU M  50     286.402 117.126  -8.730  1.00161.07      MS13
ATOM  46114  OE2 GLU M  50     286.346 116.705  -6.576  1.00161.07      MS13
ATOM  46115  C   GLU M  50     286.467 120.587  -5.835  1.00 72.51      MS13
ATOM  46116  O   GLU M  50     286.274 119.784  -4.927  1.00 72.51      MS13
ATOM  46117  N   ALA M  51     286.824 121.845  -5.623  1.00 70.47      MS13
ATOM  46118  CA  ALA M  51     286.976 122.366  -4.282  1.00 70.47      MS13
ATOM  46119  CB  ALA M  51     287.422 123.802  -4.340  1.00  7.76      MS13
ATOM  46120  C   ALA M  51     285.596 122.277  -3.648  1.00 70.47      MS13
ATOM  46121  O   ALA M  51     285.338 121.406  -2.816  1.00 70.47      MS13
ATOM  46122  N   GLU M  52     284.710 123.182  -4.062  1.00 41.94      MS13
ATOM  46123  CA  GLU M  52     283.343 123.220  -3.557  1.00 41.94      MS13
ATOM  46124  CB  GLU M  52     282.490 124.106  -4.459  1.00 57.56      MS13
ATOM  46125  CG  GLU M  52     283.077 125.491  -4.640  1.00 57.56      MS13
ATOM  46126  CD  GLU M  52     282.372 126.303  -5.714  1.00 57.56      MS13
ATOM  46127  OE1 GLU M  52     282.307 125.830  -6.873  1.00 57.56      MS13
ATOM  46128  OE2 GLU M  52     281.890 127.419  -5.406  1.00 57.56      MS13
ATOM  46129  C   GLU M  52     282.781 121.804  -3.521  1.00 41.94      MS13
ATOM  46130  O   GLU M  52     282.297 121.338  -2.485  1.00 41.94      MS13
ATOM  46131  N   VAL M  53     282.870 121.116  -4.655  1.00 45.46      MS13
ATOM  46132  CA  VAL M  53     282.380 119.749  -4.762  1.00 45.46      MS13
ATOM  46133  CB  VAL M  53     282.795 119.089  -6.091  1.00 72.14      MS13
ATOM  46134  CG1 VAL M  53     282.400 117.614  -6.081  1.00 72.14      MS13
ATOM  46135  CG2 VAL M  53     282.131 119.805  -7.259  1.00 72.14      MS13
ATOM  46136  C   VAL M  53     282.908 118.897  -3.625  1.00 45.46      MS13
ATOM  46137  O   VAL M  53     282.251 117.957  -3.201  1.00 45.46      MS13
ATOM  46138  N   VAL M  54     284.099 119.216  -3.137  1.00 80.50      MS13
ATOM  46139  CA  VAL M  54     284.664 118.452  -2.039  1.00 80.50      MS13
ATOM  46140  CB  VAL M  54     286.208 118.517  -2.036  1.00 80.82      MS13
ATOM  46141  CG1 VAL M  54     286.754 117.990  -0.720  1.00 80.82      MS13
ATOM  46142  CG2 VAL M  54     286.755 117.680  -3.172  1.00 80.82      MS13
ATOM  46143  C   VAL M  54     284.127 118.972  -0.712  1.00 80.50      MS13
ATOM  46144  O   VAL M  54     283.607 118.205   0.098  1.00 80.50      MS13
ATOM  46145  N   ARG M  55     284.239 120.277  -0.493  1.00118.20      MS13
ATOM  46146  CA  ARG M  55     283.764 120.870   0.750  1.00118.20      MS13
ATOM  46147  CB  ARG M  55     283.891 122.395   0.688  1.00 85.27      MS13
ATOM  46148  CG  ARG M  55     285.167 122.907   0.018  1.00 85.27      MS13
ATOM  46149  CD  ARG M  55     285.564 124.263   0.583  1.00 85.27      MS13
ATOM  46150  NE  ARG M  55     284.434 125.186   0.639  1.00 85.27      MS13
ATOM  46151  CZ  ARG M  55     284.018 125.922  -0.384  1.00 85.27      MS13
ATOM  46152  NH1 ARG M  55     284.639 125.855  -1.553  1.00 85.27      MS13
ATOM  46153  NH2 ARG M  55     282.975 126.723  -0.237  1.00 85.27      MS13
ATOM  46154  C   ARG M  55     282.308 120.472   1.000  1.00118.20      MS13
ATOM  46155  O   ARG M  55     281.936 120.127   2.123  1.00118.20      MS13
ATOM  46156  N   LEU M  56     281.497 120.515  -0.056  1.00 47.21      MS13
ATOM  46157  CA  LEU M  56     280.085 120.156   0.024  1.00 47.21      MS13
ATOM  46158  CB  LEU M  56     279.409 120.420  -1.319  1.00 44.38      MS13
ATOM  46159  CG  LEU M  56     278.013 121.048  -1.285  1.00 44.38      MS13
ATOM  46160  CD1 LEU M  56     277.508 121.175  -2.724  1.00 44.38      MS13
ATOM  46161  CD2 LEU M  56     277.060 120.210  -0.423  1.00 44.38      MS13
ATOM  46162  C   LEU M  56     279.961 118.674   0.371  1.00 47.21      MS13
ATOM  46163  O   LEU M  56     279.423 118.304   1.414  1.00 47.21      MS13
ATOM  46164  N   ARG M  57     280.471 117.834  -0.521  1.00 69.73      MS13
ATOM  46165  CA  ARG M  57     280.445 116.389  -0.338  1.00 69.73      MS13
ATOM  46166  CB  ARG M  57     281.473 115.726  -1.257  1.00 93.93      MS13
ATOM  46167  CG  ARG M  57     281.449 114.217  -1.245  1.00 93.93      MS13
ATOM  46168  CD  ARG M  57     282.470 113.633  -2.217  1.00 93.93      MS13
ATOM  46169  NE  ARG M  57     282.339 114.177  -3.569  1.00 93.93      MS13
ATOM  46170  CZ  ARG M  57     282.961 113.689  -4.643  1.00 93.93      MS13
ATOM  46171  NH1 ARG M  57     283.762 112.636  -4.534  1.00 93.93      MS13
ATOM  46172  NH2 ARG M  57     282.786 114.257  -5.832  1.00 93.93      MS13
ATOM  46173  C   ARG M  57     280.771 116.064   1.103  1.00 69.73      MS13
ATOM  46174  O   ARG M  57     280.158 115.188   1.706  1.00 69.73      MS13
ATOM  46175  N   GLU M  58     281.732 116.793   1.657  1.00 80.52      MS13
ATOM  46176  CA  GLU M  58     282.154 116.579   3.035  1.00 80.52      MS13
ATOM  46177  CB  GLU M  58     283.414 117.398   3.343  1.00201.26      MS13
ATOM  46178  CG  GLU M  58     284.639 117.031   2.504  1.00201.26      MS13
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ATOM  46179  CD  GLU M  58     285.102 115.594   2.699  1.00201.26      MS13
ATOM  46180  OE1 GLU M  58     286.093 115.196   2.048  1.00201.26      MS13
ATOM  46181  OE2 GLU M  58     284.481 114.861   3.499  1.00201.26      MS13
ATOM  46182  C   GLU M  58     281.063 116.925   4.037  1.00 80.52      MS13
ATOM  46183  O   GLU M  58     280.553 116.045   4.732  1.00 80.52      MS13
ATOM  46184  N   TYR M  59     280.702 118.202   4.106  1.00 74.11      MS13
ATOM  46185  CA  TYR M  59     279.678 118.640   5.044  1.00 74.11      MS13
ATOM  46186  CB  TYR M  59     279.192 120.045   4.716  1.00 77.65      MS13
ATOM  46187  CG  TYR M  59     278.189 120.527   5.731  1.00 77.65      MS13
ATOM  46188  CD1 TYR M  59     278.496 120.510   7.090  1.00 77.65      MS13
ATOM  46189  CE1 TYR M  59     277.590 120.940   8.040  1.00 77.65      MS13
ATOM  46190  CD2 TYR M  59     276.938 120.989   5.345  1.00 77.65      MS13
ATOM  46191  CE2 TYR M  59     276.016 121.425   6.293  1.00 77.65      MS13
ATOM  46192  CZ  TYR M  59     276.353 121.396   7.640  1.00 77.65      MS13
ATOM  46193  OH  TYR M  59     275.456 121.814   8.595  1.00 77.65      MS13
ATOM  46194  C   TYR M  59     278.466 117.728   5.090  1.00 74.11      MS13
ATOM  46195  O   TYR M  59     278.209 117.066   6.089  1.00 74.11      MS13
ATOM  46196  N   VAL M  60     277.716 117.709   3.998  1.00 47.46      MS13
ATOM  46197  CA  VAL M  60     276.522 116.893   3.911  1.00 47.46      MS13
ATOM  46198  CB  VAL M  60     275.919 116.963   2.510  1.00 24.69      MS13
ATOM  46199  CG1 VAL M  60     274.963 115.812   2.310  1.00 24.69      MS13
ATOM  46200  CG2 VAL M  60     275.184 118.283   2.332  1.00 24.69      MS13
ATOM  46201  C   VAL M  60     276.723 115.430   4.280  1.00 47.46      MS13
ATOM  46202  O   VAL M  60     276.090 114.931   5.211  1.00 47.46      MS13
ATOM  46203  N   GLU M  61     277.586 114.732   3.548  1.00 64.28      MS13
ATOM  46204  CA  GLU M  61     277.802 113.323   3.840  1.00 64.28      MS13
ATOM  46205  CB  GLU M  61     278.923 112.751   2.973  1.00122.01      MS13
ATOM  46206  CG  GLU M  61     278.522 112.546   1.521  1.00122.01      MS13
ATOM  46207  CD  GLU M  61     279.444 111.590   0.787  1.00122.01      MS13
ATOM  46208  OE1 GLU M  61     279.542 110.416   1.204  1.00122.01      MS13
ATOM  46209  OE2 GLU M  61     280.066 112.010  -0.209  1.00122.01      MS13
ATOM  46210  C   GLU M  61     278.111 113.108   5.312  1.00 64.28      MS13
ATOM  46211  O   GLU M  61     277.680 112.120   5.908  1.00 64.28      MS13
ATOM  46212  N   ASN M  62     278.851 114.043   5.896  1.00108.52      MS13
ATOM  46213  CA  ASN M  62     279.215 113.970   7.306  1.00108.52      MS13
ATOM  46214  CB  ASN M  62     280.730 114.122   7.473  1.00127.06      MS13
ATOM  46215  CG  ASN M  62     281.494 112.884   7.044  1.00127.06      MS13
ATOM  46216  OD1 ASN M  62     282.715 112.919   6.879  1.00127.06      MS13
ATOM  46217  ND2 ASN M  62     280.780 111.778   6.873  1.00127.06      MS13
ATOM  46218  C   ASN M  62     278.506 115.086   8.055  1.00108.52      MS13
ATOM  46219  O   ASN M  62     279.048 116.176   8.203  1.00108.52      MS13
ATOM  46220  N   THR M  63     277.292 114.813   8.518  1.00 66.76      MS13
ATOM  46221  CA  THR M  63     276.500 115.799   9.248  1.00 66.76      MS13
ATOM  46222  CB  THR M  63     276.558 117.201   8.563  1.00 80.44      MS13
ATOM  46223  OG1 THR M  63     275.987 118.189   9.425  1.00 80.44      MS13
ATOM  46224  CG2 THR M  63     275.788 117.199   7.265  1.00 80.44      MS13
ATOM  46225  C   THR M  63     275.051 115.316   9.299  1.00 66.76      MS13
ATOM  46226  O   THR M  63     274.307 115.640  10.221  1.00 66.76      MS13
ATOM  46227  N   TRP M  64     274.664 114.530   8.300  1.00 89.85      MS13
ATOM  46228  CA  TRP M  64     273.314 113.996   8.227  1.00 89.85      MS13
ATOM  46229  CB  TRP M  64     272.488 114.737   7.181  1.00 33.14      MS13
ATOM  46230  CG  TRP M  64     272.235 116.142   7.473  1.00 33.14      MS13
ATOM  46231  CD2 TRP M  64     272.354 117.235   6.558  1.00 33.14      MS13
ATOM  46232  CE2 TRP M  64     271.999 118.410   7.262  1.00 33.14      MS13
ATOM  46233  CE3 TRP M  64     272.727 117.339   5.207  1.00 33.14      MS13
ATOM  46234  CD1 TRP M  64     271.823 116.670   8.654  1.00 33.14      MS13
ATOM  46235  NE1 TRP M  64     271.677 118.035   8.541  1.00 33.14      MS13
ATOM  46236  CZ2 TRP M  64     272.010 119.683   6.662  1.00 33.14      MS13
ATOM  46237  CZ3 TRP M  64     272.737 118.618   4.606  1.00 33.14      MS13
ATOM  46238  CH2 TRP M  64     272.381 119.768   5.341  1.00 33.14      MS13
ATOM  46239  C   TRP M  64     273.294 112.522   7.862  1.00 89.85      MS13
ATOM  46240  O   TRP M  64     274.254 111.977   7.310  1.00 89.85      MS13
ATOM  46241  N   LYS M  65     272.173 111.889   8.176  1.00 99.31      MS13
ATOM  46242  CA  LYS M  65     271.962 110.489   7.861  1.00 99.31      MS13
ATOM  46243  CB  LYS M  65     271.223 109.805   9.011  1.00 76.21      MS13
ATOM  46244  CG  LYS M  65     271.272 108.291   9.008  1.00 76.21      MS13
ATOM  46245  CD  LYS M  65     270.666 107.751  10.296  1.00 76.21      MS13
ATOM  46246  CE  LYS M  65     270.691 106.230  10.366  1.00 76.21      MS13
ATOM  46247  NZ  LYS M  65     272.059 105.683  10.551  1.00 76.21      MS13
ATOM  46248  C   LYS M  65     271.072 110.604   6.634  1.00 99.31      MS13
ATOM  46249  O   LYS M  65     269.925 111.041   6.738  1.00 99.31      MS13
ATOM  46250  N   LEU M  66     271.613 110.248   5.471  1.00 57.04      MS13
ATOM  46251  CA  LEU M  66     270.874 110.348   4.219  1.00 57.04      MS13
ATOM  46252  CB  LEU M  66     271.550 111.358   3.302  1.00 35.96      MS13
ATOM  46253  CG  LEU M  66     271.823 112.742   3.881  1.00 35.96      MS13
ATOM  46254  CD1 LEU M  66     272.236 113.711   2.781  1.00 35.96      MS13
ATOM  46255  CD2 LEU M  66     270.564 113.230   4.556  1.00 35.96      MS13
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ATOM  46256  C   LEU M  66     270.735 109.045   3.464  1.00 57.04      MS13
ATOM  46257  O   LEU M  66     271.081 107.977   3.964  1.00 57.04      MS13
ATOM  46258  N   GLU M  67     270.219 109.163   2.245  1.00 79.97      MS13
ATOM  46259  CA  GLU M  67     270.016 108.036   1.345  1.00 79.97      MS13
ATOM  46260  CB  GLU M  67     271.196 107.944   0.387  1.00 73.43      MS13
ATOM  46261  CG  GLU M  67     270.995 108.748  -0.871  1.00 73.43      MS13
ATOM  46262  CD  GLU M  67     269.971 108.114  -1.786  1.00 73.43      MS13
ATOM  46263  OE1 GLU M  67     270.169 106.939  -2.166  1.00 73.43      MS13
ATOM  46264  OE2 GLU M  67     268.972 108.785  -2.126  1.00 73.43      MS13
ATOM  46265  C   GLU M  67     269.767 106.679   1.987  1.00 79.97      MS13
ATOM  46266  O   GLU M  67     269.137 106.580   3.036  1.00 79.97      MS13
ATOM  46267  N   GLY M  68     270.258 105.632   1.339  1.00 68.82      MS13
ATOM  46268  CA  GLY M  68     270.071 104.291   1.852  1.00 68.82      MS13
ATOM  46269  C   GLY M  68     269.953 104.162   3.361  1.00 68.82      MS13
ATOM  46270  O   GLY M  68     268.974 103.606   3.862  1.00 68.82      MS13
ATOM  46271  N   GLU M  69     270.944 104.674   4.088  1.00 77.30      MS13
ATOM  46272  CA  GLU M  69     270.956 104.590   5.546  1.00 77.30      MS13
ATOM  46273  CB  GLU M  69     272.137 105.380   6.105  1.00201.24      MS13
ATOM  46274  CG  GLU M  69     272.235 105.340   7.614  1.00201.24      MS13
ATOM  46275  CD  GLU M  69     273.584 105.809   8.115  1.00201.24      MS13
ATOM  46276  OE1 GLU M  69     274.582 105.114   7.843  1.00201.24      MS13
ATOM  46277  OE2 GLU M  69     273.651 106.867   8.776  1.00201.24      MS13
ATOM  46278  C   GLU M  69     269.659 105.067   6.187  1.00 77.30      MS13
ATOM  46279  O   GLU M  69     269.154 104.434   7.115  1.00 77.30      MS13
ATOM  46280  N   LEU M  70     269.126 106.183   5.698  1.00 56.70      MS13
ATOM  46281  CA  LEU M  70     267.869 106.723   6.217  1.00 56.70      MS13
ATOM  46282  CB  LEU M  70     267.445 107.958   5.432  1.00 37.21      MS13
ATOM  46283  CG  LEU M  70     267.295 109.270   6.194  1.00 37.21      MS13
ATOM  46284  CD1 LEU M  70     266.678 110.308   5.257  1.00 37.21      MS13
ATOM  46285  CD2 LEU M  70     266.442 109.071   7.437  1.00 37.21      MS13
ATOM  46286  C   LEU M  70     266.778 105.675   6.072  1.00 56.70      MS13
ATOM  46287  O   LEU M  70     266.220 105.203   7.061  1.00 56.70      MS13
ATOM  46288  N   ARG M  71     266.477 105.331   4.822  1.00 76.76      MS13
ATOM  46289  CA  ARG M  71     265.461 104.334   4.513  1.00 76.76      MS13
ATOM  46290  CB  ARG M  71     265.576 103.895   3.056  1.00 75.72      MS13
ATOM  46291  CG  ARG M  71     265.707 105.020   2.060  1.00 75.72      MS13
ATOM  46292  CD  ARG M  71     266.235 104.455   0.760  1.00 75.72      MS13
ATOM  46293  NE  ARG M  71     266.549 105.470  -0.242  1.00 75.72      MS13
ATOM  46294  CZ  ARG M  71     265.643 106.120  -0.966  1.00 75.72      MS13
ATOM  46295  NH1 ARG M  71     264.350 105.867  -0.801  1.00 75.72      MS13
ATOM  46296  NH2 ARG M  71     266.033 107.015  -1.865  1.00 75.72      MS13
ATOM  46297  C   ARG M  71     265.700 103.131   5.413  1.00 76.76      MS13
ATOM  46298  O   ARG M  71     264.766 102.544   5.960  1.00 76.76      MS13
ATOM  46299  N   ALA M  72     266.970 102.773   5.556  1.00 79.87      MS13
ATOM  46300  CA  ALA M  72     267.354 101.649   6.388  1.00 79.87      MS13
ATOM  46301  CB  ALA M  72     268.870 101.554   6.463  1.00167.34      MS13
ATOM  46302  C   ALA M  72     266.770 101.834   7.780  1.00 79.87      MS13
ATOM  46303  O   ALA M  72     266.237 100.891   8.380  1.00 79.87      MS13
ATOM  46304  N   GLU M  73     266.873 103.058   8.289  1.00 60.82      MS13
ATOM  46305  CA  GLU M  73     266.360 103.377   9.616  1.00 60.82      MS13
ATOM  46306  CB  GLU M  73     266.731 104.811   9.992  1.00125.71      MS13
ATOM  46307  CG  GLU M  73     266.462 105.149  11.441  1.00125.71      MS13
ATOM  46308  CD  GLU M  73     267.032 106.493  11.836  1.00125.71      MS13
ATOM  46309  OE1 GLU M  73     266.528 107.522  11.339  1.00125.71      MS13
ATOM  46310  OE2 GLU M  73     267.989 106.518  12.640  1.00125.71      MS13
ATOM  46311  C   GLU M  73     264.849 103.211   9.622  1.00 60.82      MS13
ATOM  46312  O   GLU M  73     264.322 102.218  10.131  1.00 60.82      MS13
ATOM  46313  N   VAL M  74     264.165 104.193   9.044  1.00 43.56      MS13
ATOM  46314  CA  VAL M  74     262.712 104.184   8.946  1.00 43.56      MS13
ATOM  46315  CB  VAL M  74     262.246 104.970   7.703  1.00 49.83      MS13
ATOM  46316  CG1 VAL M  74     260.737 104.904   7.589  1.00 49.83      MS13
ATOM  46317  CG2 VAL M  74     262.710 106.412   7.795  1.00 49.83      MS13
ATOM  46318  C   VAL M  74     262.156 102.763   8.855  1.00 43.56      MS13
ATOM  46319  O   VAL M  74     261.337 102.349   9.675  1.00 43.56      MS13
ATOM  46320  N   ALA M  75     262.604 102.025   7.848  1.00 61.76      MS13
ATOM  46321  CA  ALA M  75     262.153 100.657   7.656  1.00 61.76      MS13
ATOM  46322  CB  ALA M  75     263.047  99.949   6.647  1.00189.71      MS13
ATOM  46323  C   ALA M  75     262.171  99.914   8.987  1.00 61.76      MS13
ATOM  46324  O   ALA M  75     261.127  99.688   9.593  1.00 61.76      MS13
ATOM  46325  N   ALA M  76     263.365  99.545   9.440  1.00110.90      MS13
ATOM  46326  CA  ALA M  76     263.517  98.830  10.700  1.00110.90      MS13
ATOM  46327  CB  ALA M  76     264.990  98.549  10.964  1.00160.51      MS13
ATOM  46328  C   ALA M  76     262.920  99.643  11.845  1.00110.90      MS13
ATOM  46329  O   ALA M  76     262.751  99.140  12.956  1.00110.90      MS13
ATOM  46330  N   ASN M  77     262.600 100.902  11.566  1.00 51.23      MS13
ATOM  46331  CA  ASN M  77     262.020 101.780  12.570  1.00 51.23      MS13
ATOM  46332  CB  ASN M  77     262.215 103.240  12.170  1.00 67.89      MS13
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ATOM  46333  CG  ASN M  77     261.762 104.200  13.242  1.00 67.89      MS13
ATOM  46334  OD1 ASN M  77     262.486 104.469  14.201  1.00 67.89      MS13
ATOM  46335  ND2 ASN M  77     260.552 104.715  13.095  1.00 67.89      MS13
ATOM  46336  C   ASN M  77     260.532 101.496  12.732  1.00 51.23      MS13
ATOM  46337  O   ASN M  77     259.985 101.676  13.816  1.00 51.23      MS13
ATOM  46338  N   ILE M  78     259.883 101.065  11.648  1.00 50.17      MS13
ATOM  46339  CA  ILE M  78     258.448 100.729  11.640  1.00 50.17      MS13
ATOM  46340  CB  ILE M  78     257.878 100.781  10.220  1.00 60.22      MS13
ATOM  46341  CG2 ILE M  78     256.495 100.177  10.196  1.00 60.22      MS13
ATOM  46342  CG1 ILE M  78     257.855 102.224   9.729  1.00 60.22      MS13
ATOM  46343  CD1 ILE M  78     257.312 102.374   8.330  1.00 60.22      MS13
ATOM  46344  C   ILE M  78     258.243  99.318  12.173  1.00 50.17      MS13
ATOM  46345  O   ILE M  78     257.351  99.049  12.986  1.00 50.17      MS13
ATOM  46346  N   LYS M  79     259.087  98.426  11.671  1.00 64.81      MS13
ATOM  46347  CA  LYS M  79     259.098  97.032  12.061  1.00 64.81      MS13
ATOM  46348  CB  LYS M  79     260.425  96.401  11.620  1.00107.15      MS13
ATOM  46349  CG  LYS M  79     260.378  94.926  11.238  1.00107.15      MS13
ATOM  46350  CD  LYS M  79     260.495  94.012  12.433  1.00107.15      MS13
ATOM  46351  CE  LYS M  79     260.617  92.564  11.990  1.00107.15      MS13
ATOM  46352  NZ  LYS M  79     260.719  91.612  13.138  1.00107.15      MS13
ATOM  46353  C   LYS M  79     259.006  97.072  13.574  1.00 64.81      MS13
ATOM  46354  O   LYS M  79     258.391  96.214  14.199  1.00 64.81      MS13
ATOM  46355  N   ARG M  80     259.615  98.102  14.152  1.00 64.79      MS13
ATOM  46356  CA  ARG M  80     259.625  98.283  15.594  1.00 64.79      MS13
ATOM  46357  CB  ARG M  80     260.430  99.535  15.958  1.00129.04      MS13
ATOM  46358  CG  ARG M  80     260.629  99.758  17.454  1.00129.04      MS13
ATOM  46359  CD  ARG M  80     261.585 100.920  17.707  1.00129.04      MS13
ATOM  46360  NE  ARG M  80     261.053 102.187  17.215  1.00129.04      MS13
ATOM  46361  CZ  ARG M  80     260.001 102.810  17.740  1.00129.04      MS13
ATOM  46362  NH1 ARG M  80     259.365 102.284  18.780  1.00129.04      MS13
ATOM  46363  NH2 ARG M  80     259.582 103.957  17.221  1.00129.04      MS13
ATOM  46364  C   ARG M  80     258.209  98.398  16.137  1.00 64.79      MS13
ATOM  46365  O   ARG M  80     257.715  97.472  16.786  1.00 64.79      MS13
ATOM  46366  N   LEU M  81     257.556  99.526  15.866  1.00 79.98      MS13
ATOM  46367  CA  LEU M  81     256.197  99.748  16.350  1.00 79.98      MS13
ATOM  46368  CB  LEU M  81     255.706 101.159  15.996  1.00 42.62      MS13
ATOM  46369  CG  LEU M  81     255.916 101.718  14.594  1.00 42.62      MS13
ATOM  46370  CD1 LEU M  81     255.442 103.165  14.546  1.00 42.62      MS13
ATOM  46371  CD2 LEU M  81     257.368 101.671  14.250  1.00 42.62      MS13
ATOM  46372  C   LEU M  81     255.251  98.694  15.809  1.00 79.98      MS13
ATOM  46373  O   LEU M  81     254.067  98.662  16.142  1.00 79.98      MS13
ATOM  46374  N   MET M  82     255.797  97.814  14.982  1.00 49.34      MS13
ATOM  46375  CA  MET M  82     255.018  96.732  14.420  1.00 49.34      MS13
ATOM  46376  CB  MET M  82     255.359  96.556  12.946  1.00 80.42      MS13
ATOM  46377  CG  MET M  82     254.469  95.554  12.256  1.00 80.42      MS13
ATOM  46378  SD  MET M  82     254.763  95.519  10.504  1.00 80.42      MS13
ATOM  46379  CE  MET M  82     254.227  97.146  10.039  1.00 80.42      MS13
ATOM  46380  C   MET M  82     255.297  95.431  15.180  1.00 49.34      MS13
ATOM  46381  O   MET M  82     254.446  94.541  15.230  1.00 49.34      MS13
ATOM  46382  N   ASP M  83     256.489  95.333  15.770  1.00 86.63      MS13
ATOM  46383  CA  ASP M  83     256.887  94.150  16.528  1.00 86.63      MS13
ATOM  46384  CB  ASP M  83     258.398  94.097  16.700  1.00143.55      MS13
ATOM  46385  CG  ASP M  83     259.118  93.890  15.395  1.00143.55      MS13
ATOM  46386  OD1 ASP M  83     258.723  92.974  14.642  1.00143.55      MS13
ATOM  46387  OD2 ASP M  83     260.079  94.639  15.126  1.00143.55      MS13
ATOM  46388  C   ASP M  83     256.237  94.131  17.892  1.00 86.63      MS13
ATOM  46389  O   ASP M  83     255.919  93.067  18.419  1.00 86.63      MS13
ATOM  46390  N   ILE M  84     256.053  95.310  18.470  1.00 72.73      MS13
ATOM  46391  CA  ILE M  84     255.412  95.411  19.770  1.00 72.73      MS13
ATOM  46392  CB  ILE M  84     255.971  96.588  20.565  1.00 48.44      MS13
ATOM  46393  CG2 ILE M  84     257.467  96.426  20.705  1.00 48.44      MS13
ATOM  46394  CG1 ILE M  84     255.645  97.905  19.857  1.00 48.44      MS13
ATOM  46395  CD1 ILE M  84     256.095  99.149  20.615  1.00 48.44      MS13
ATOM  46396  C   ILE M  84     253.916  95.604  19.554  1.00 72.73      MS13
ATOM  46397  O   ILE M  84     253.497  96.145  18.526  1.00 72.73      MS13
ATOM  46398  N   GLY M  85     253.117  95.156  20.519  1.00 82.73      MS13
ATOM  46399  CA  GLY M  85     251.672  95.267  20.411  1.00 82.73      MS13
ATOM  46400  C   GLY M  85     251.159  96.506  19.698  1.00 82.73      MS13
ATOM  46401  O   GLY M  85     250.116  96.467  19.047  1.00 82.73      MS13
ATOM  46402  N   CYS M  86     251.903  97.602  19.825  1.00 83.40      MS13
ATOM  46403  CA  CYS M  86     251.568  98.895  19.224  1.00 83.40      MS13
ATOM  46404  CB  CYS M  86     252.813  99.516  18.605  1.00 97.85      MS13
ATOM  46405  SG  CYS M  86     252.452 101.077  17.808  1.00 97.85      MS13
ATOM  46406  C   CYS M  86     250.440  98.964  18.194  1.00 83.40      MS13
ATOM  46407  O   CYS M  86     250.393  98.178  17.251  1.00 83.40      MS13
ATOM  46408  N   TYR M  87     249.559  99.947  18.377  1.00 64.00      MS13
ATOM  46409  CA  TYR M  87     248.412 100.172  17.496  1.00 64.00      MS13
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ATOM  46410  CB  TYR M  87     247.488 101.242  18.095  1.00 69.74      MS13
ATOM  46411  CG  TYR M  87     246.321 101.650  17.209  1.00 69.74      MS13
ATOM  46412  CD1 TYR M  87     245.201 100.836  17.073  1.00 69.74      MS13
ATOM  46413  CE1 TYR M  87     244.121 101.216  16.260  1.00 69.74      MS13
ATOM  46414  CD2 TYR M  87     246.339 102.856  16.508  1.00 69.74      MS13
ATOM  46415  CE2 TYR M  87     245.267 103.243  15.692  1.00 69.74      MS13
ATOM  46416  CZ  TYR M  87     244.163 102.418  15.576  1.00 69.74      MS13
ATOM  46417  OH  TYR M  87     243.103 102.796  14.781  1.00 69.74      MS13
ATOM  46418  C   TYR M  87     248.842 100.616  16.105  1.00 64.00      MS13
ATOM  46419  O   TYR M  87     248.611  99.918  15.116  1.00 64.00      MS13
ATOM  46420  N   ARG M  88     249.454 101.793  16.031  1.00 59.80      MS13
ATOM  46421  CA  ARG M  88     249.903 102.317  14.751  1.00 59.80      MS13
ATOM  46422  CB  ARG M  88     250.791 103.545  14.967  1.00108.58      MS13
ATOM  46423  CG  ARG M  88     251.953 103.287  15.887  1.00108.58      MS13
ATOM  46424  CD  ARG M  88     252.641 104.559  16.330  1.00108.58      MS13
ATOM  46425  NE  ARG M  88     253.182 105.313  15.208  1.00108.58      MS13
ATOM  46426  CZ  ARG M  88     254.097 106.266  15.332  1.00108.58      MS13
ATOM  46427  NH1 ARG M  88     254.572 106.576  16.531  1.00108.58      MS13
ATOM  46428  NH2 ARG M  88     254.536 106.911  14.262  1.00108.58      MS13
ATOM  46429  C   ARG M  88     250.667 101.211  14.042  1.00 59.80      MS13
ATOM  46430  O   ARG M  88     250.696 101.146  12.818  1.00 59.80      MS13
ATOM  46431  N   GLY M  89     251.267 100.326  14.827  1.00 65.58      MS13
ATOM  46432  CA  GLY M  89     252.008  99.223  14.250  1.00 65.58      MS13
ATOM  46433  C   GLY M  89     251.082  98.308  13.479  1.00 65.58      MS13
ATOM  46434  O   GLY M  89     251.473  97.696  12.489  1.00 65.58      MS13
ATOM  46435  N   LEU M  90     249.844  98.206  13.939  1.00 46.84      MS13
ATOM  46436  CA  LEU M  90     248.869  97.367  13.267  1.00 46.84      MS13
ATOM  46437  CB  LEU M  90     247.721  97.021  14.213  1.00137.06      MS13
ATOM  46438  CG  LEU M  90     248.138  96.196  15.430  1.00137.06      MS13
ATOM  46439  CD1 LEU M  90     246.921  95.897  16.287  1.00137.06      MS13
ATOM  46440  CD2 LEU M  90     248.801  94.906  14.968  1.00137.06      MS13
ATOM  46441  C   LEU M  90     248.339  98.113  12.054  1.00 46.84      MS13
ATOM  46442  O   LEU M  90     248.122  97.524  10.993  1.00 46.84      MS13
ATOM  46443  N   ARG M  91     248.145  99.417  12.212  1.00 70.20      MS13
ATOM  46444  CA  ARG M  91     247.650 100.221  11.111  1.00 70.20      MS13
ATOM  46445  CB  ARG M  91     247.483 101.673  11.551  1.00 45.62      MS13
ATOM  46446  CG  ARG M  91     246.482 101.847  12.678  1.00 45.62      MS13
ATOM  46447  CD  ARG M  91     245.116 101.261  12.327  1.00 45.62      MS13
ATOM  46448  NE  ARG M  91     244.364 102.092  11.391  1.00 45.62      MS13
ATOM  46449  CZ  ARG M  91     243.168 101.769  10.905  1.00 45.62      MS13
ATOM  46450  NH1 ARG M  91     242.594 100.634  11.261  1.00 45.62      MS13
ATOM  46451  NH2 ARG M  91     242.535 102.582  10.075  1.00 45.62      MS13
ATOM  46452  C   ARG M  91     248.611 100.116   9.932  1.00 70.20      MS13
ATOM  46453  O   ARG M  91     248.227 100.333   8.784  1.00 70.20      MS13
ATOM  46454  N   HIS M  92     249.864  99.783  10.220  1.00 63.10      MS13
ATOM  46455  CA  HIS M  92     250.850  99.615   9.167  1.00 63.10      MS13
ATOM  46456  CB  HIS M  92     252.267  99.715   9.726  1.00 53.52      MS13
ATOM  46457  CG  HIS M  92     252.828 101.101   9.718  1.00 53.52      MS13
ATOM  46458  CD2 HIS M  92     253.099 101.961  10.729  1.00 53.52      MS13
ATOM  46459  ND1 HIS M  92     253.179 101.751   8.555  1.00 53.52      MS13
ATOM  46460  CE1 HIS M  92     253.643 102.954   8.851  1.00 53.52      MS13
ATOM  46461  NE2 HIS M  92     253.604 103.106  10.164  1.00 53.52      MS13
ATOM  46462  C   HIS M  92     250.634  98.230   8.577  1.00 63.10      MS13
ATOM  46463  O   HIS M  92     250.742  98.044   7.368  1.00 63.10      MS13
ATOM  46464  N   ARG M  93     250.326  97.260   9.435  1.00 66.08      MS13
ATOM  46465  CA  ARG M  93     250.088  95.891   8.988  1.00 66.08      MS13
ATOM  46466  CB  ARG M  93     249.824  94.968  10.174  1.00118.05      MS13
ATOM  46467  CG  ARG M  93     251.009  94.707  11.062  1.00118.05      MS13
ATOM  46468  CD  ARG M  93     250.637  93.659  12.088  1.00118.05      MS13
ATOM  46469  NE  ARG M  93     251.782  93.229  12.881  1.00118.05      MS13
ATOM  46470  CZ  ARG M  93     251.748  92.229  13.755  1.00118.05      MS13
ATOM  46471  NH1 ARG M  93     250.623  91.551  13.949  1.00118.05      MS13
ATOM  46472  NH2 ARG M  93     252.841  91.902  14.431  1.00118.05      MS13
ATOM  46473  C   ARG M  93     248.877  95.847   8.073  1.00 66.08      MS13
ATOM  46474  O   ARG M  93     248.956  95.357   6.949  1.00 66.08      MS13
ATOM  46475  N   ARG M  94     247.751  96.351   8.571  1.00 61.21      MS13
ATOM  46476  CA  ARG M  94     246.512  96.370   7.808  1.00 61.21      MS13
ATOM  46477  CB  ARG M  94     245.324  96.682   8.726  1.00178.98      MS13
ATOM  46478  CG  ARG M  94     244.889  95.521   9.609  1.00178.98      MS13
ATOM  46479  CD  ARG M  94     244.502  94.325   8.756  1.00178.98      MS13
ATOM  46480  NE  ARG M  94     243.974  93.216   9.543  1.00178.98      MS13
ATOM  46481  CZ  ARG M  94     243.667  92.024   9.038  1.00178.98      MS13
ATOM  46482  NH1 ARG M  94     243.836  91.785   7.743  1.00178.98      MS13
ATOM  46483  NH2 ARG M  94     243.188  91.070   9.825  1.00178.98      MS13
ATOM  46484  C   ARG M  94     246.591  97.401   6.694  1.00 61.21      MS13
ATOM  46485  O   ARG M  94     245.638  97.589   5.944  1.00 61.21      MS13
ATOM  46486  N   GLY M  95     247.732  98.069   6.589  1.00 47.16      MS13
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ATOM  46487  CA  GLY M  95     247.915  99.071   5.554  1.00 47.16      MS13
ATOM  46488  C   GLY M  95     246.791 100.086   5.450  1.00 47.16      MS13
ATOM  46489  O   GLY M  95     246.268 100.350   4.364  1.00 47.16      MS13
ATOM  46490  N   LEU M  96     246.410 100.654   6.585  1.00 49.86      MS13
ATOM  46491  CA  LEU M  96     245.352 101.654   6.614  1.00 49.86      MS13
ATOM  46492  CB  LEU M  96     244.204 101.192   7.506  1.00 41.73      MS13
ATOM  46493  CG  LEU M  96     243.361 100.019   7.021  1.00 41.73      MS13
ATOM  46494  CD1 LEU M  96     242.415  99.569   8.133  1.00 41.73      MS13
ATOM  46495  CD2 LEU M  96     242.605 100.443   5.776  1.00 41.73      MS13
ATOM  46496  C   LEU M  96     245.943 102.922   7.187  1.00 49.86      MS13
ATOM  46497  O   LEU M  96     246.896 102.866   7.961  1.00 49.86      MS13
ATOM  46498  N   PRO M  97     245.384 104.085   6.824  1.00 47.87      MS13
ATOM  46499  CD  PRO M  97     244.048 104.313   6.258  1.00 76.34      MS13
ATOM  46500  CA  PRO M  97     245.939 105.328   7.368  1.00 47.87      MS13
ATOM  46501  CB  PRO M  97     244.803 106.330   7.176  1.00 76.34      MS13
ATOM  46502  CG  PRO M  97     243.573 105.463   7.086  1.00 76.34      MS13
ATOM  46503  C   PRO M  97     246.314 105.105   8.825  1.00 47.87      MS13
ATOM  46504  O   PRO M  97     245.565 104.479   9.576  1.00 47.87      MS13
ATOM  46505  N   VAL M  98     247.484 105.595   9.213  1.00 57.70      MS13
ATOM  46506  CA  VAL M  98     247.982 105.401  10.568  1.00 57.70      MS13
ATOM  46507  CB  VAL M  98     249.392 104.789  10.530  1.00 97.33      MS13
ATOM  46508  CG1 VAL M  98     249.725 104.170  11.870  1.00 97.33      MS13
ATOM  46509  CG2 VAL M  98     249.486 103.767   9.413  1.00 97.33      MS13
ATOM  46510  C   VAL M  98     248.060 106.678  11.385  1.00 57.70      MS13
ATOM  46511  O   VAL M  98     248.690 106.696  12.432  1.00 57.70      MS13
ATOM  46512  N   ARG M  99     247.424 107.744  10.918  1.00 36.87      MS13
ATOM  46513  CA  ARG M  99     247.477 109.015  11.631  1.00 36.87      MS13
ATOM  46514  CB  ARG M  99     248.257 110.044  10.813  1.00 69.50      MS13
ATOM  46515  CG  ARG M  99     249.695 109.634  10.586  1.00 69.50      MS13
ATOM  46516  CD  ARG M  99     250.575 110.792  10.158  1.00 69.50      MS13
ATOM  46517  NE  ARG M  99     251.967 110.364  10.087  1.00 69.50      MS13
ATOM  46518  CZ  ARG M  99     252.975 111.130   9.690  1.00 69.50      MS13
ATOM  46519  NH1 ARG M  99     252.765 112.391   9.322  1.00 69.50      MS13
ATOM  46520  NH2 ARG M  99     254.197 110.621   9.647  1.00 69.50      MS13
ATOM  46521  C   ARG M  99     246.117 109.573  11.989  1.00 36.87      MS13
ATOM  46522  O   ARG M  99     245.841 110.762  11.773  1.00 36.87      MS13
ATOM  46523  N   GLY M 100     245.273 108.701  12.533  1.00 51.12      MS13
ATOM  46524  CA  GLY M 100     243.938 109.097  12.940  1.00 51.12      MS13
ATOM  46525  C   GLY M 100     243.120 109.811  11.885  1.00 51.12      MS13
ATOM  46526  O   GLY M 100     242.941 111.030  11.947  1.00 51.12      MS13
ATOM  46527  N   GLN M 101     242.621 109.056  10.914  1.00 67.07      MS13
ATOM  46528  CA  GLN M 101     241.808 109.639   9.863  1.00 67.07      MS13
ATOM  46529  CB  GLN M 101     242.636 109.829   8.598  1.00 45.93      MS13
ATOM  46530  CG  GLN M 101     243.930 110.593   8.828  1.00 45.93      MS13
ATOM  46531  CD  GLN M 101     245.166 109.772   8.505  1.00 45.93      MS13
ATOM  46532  OE1 GLN M 101     245.287 108.615   8.914  1.00 45.93      MS13
ATOM  46533  NE2 GLN M 101     246.099 110.372   7.776  1.00 45.93      MS13
ATOM  46534  C   GLN M 101     240.626 108.732   9.585  1.00 67.07      MS13
ATOM  46535  O   GLN M 101     240.546 107.616  10.116  1.00 67.07      MS13
ATOM  46536  N   ARG M 102     239.703 109.222   8.762  1.00 80.13      MS13
ATOM  46537  CA  ARG M 102     238.507 108.463   8.407  1.00 80.13      MS13
ATOM  46538  CB  ARG M 102     237.419 109.386   7.854  1.00 89.31      MS13
ATOM  46539  CG  ARG M 102     237.897 110.309   6.749  1.00 89.31      MS13
ATOM  46540  CD  ARG M 102     236.815 110.594   5.714  1.00 89.31      MS13
ATOM  46541  NE  ARG M 102     235.557 111.088   6.275  1.00 89.31      MS13
ATOM  46542  CZ  ARG M 102     234.589 110.315   6.759  1.00 89.31      MS13
ATOM  46543  NH1 ARG M 102     234.724 108.996   6.762  1.00 89.31      MS13
ATOM  46544  NH2 ARG M 102     233.471 110.859   7.222  1.00 89.31      MS13
ATOM  46545  C   ARG M 102     238.857 107.450   7.354  1.00 80.13      MS13
ATOM  46546  O   ARG M 102     239.653 107.730   6.469  1.00 80.13      MS13
ATOM  46547  N   THR M 103     238.269 106.270   7.437  1.00 35.67      MS13
ATOM  46548  CA  THR M 103     238.570 105.269   6.435  1.00 35.67      MS13
ATOM  46549  CB  THR M 103     239.277 104.060   7.059  1.00 28.80      MS13
ATOM  46550  OG1 THR M 103     238.316 103.062   7.413  1.00 28.80      MS13
ATOM  46551  CG2 THR M 103     240.014 104.487   8.298  1.00 28.80      MS13
ATOM  46552  C   THR M 103     237.280 104.831   5.760  1.00 35.67      MS13
ATOM  46553  O   THR M 103     237.238 103.854   5.000  1.00 35.67      MS13
ATOM  46554  N   ARG M 104     236.215 105.562   6.046  1.00 41.89      MS13
ATOM  46555  CA  ARG M 104     234.942 105.237   5.450  1.00 41.89      MS13
ATOM  46556  CB  ARG M 104     233.803 105.961   6.161  1.00 63.20      MS13
ATOM  46557  CG  ARG M 104     232.436 105.530   5.680  1.00 63.20      MS13
ATOM  46558  CD  ARG M 104     231.331 106.052   6.568  1.00 63.20      MS13
ATOM  46559  NE  ARG M 104     230.029 105.625   6.076  1.00 63.20      MS13
ATOM  46560  CZ  ARG M 104     228.883 105.860   6.699  1.00 63.20      MS13
ATOM  46561  NH1 ARG M 104     228.874 106.524   7.845  1.00 63.20      MS13
ATOM  46562  NH2 ARG M 104     227.746 105.424   6.182  1.00 63.20      MS13
ATOM  46563  C   ARG M 104     235.045 105.700   4.030  1.00 41.89      MS13
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ATOM  46564  O   ARG M 104     234.421 105.145   3.134  1.00 41.89      MS13
ATOM  46565  N   THR M 105     235.848 106.728   3.824  1.00 36.12      MS13
ATOM  46566  CA  THR M 105     236.029 107.236   2.487  1.00 36.12      MS13
ATOM  46567  CB  THR M 105     235.117 108.479   2.221  1.00 49.80      MS13
ATOM  46568  OG1 THR M 105     235.284 109.451   3.252  1.00 49.80      MS13
ATOM  46569  CG2 THR M 105     233.667 108.067   2.196  1.00 49.80      MS13
ATOM  46570  C   THR M 105     237.504 107.538   2.230  1.00 36.12      MS13
ATOM  46571  O   THR M 105     238.367 106.718   2.550  1.00 36.12      MS13
ATOM  46572  N   ASN M 106     237.778 108.694   1.636  1.00 75.68      MS13
ATOM  46573  CA  ASN M 106     239.129 109.130   1.305  1.00 75.68      MS13
ATOM  46574  CB  ASN M 106     239.220 110.628   1.486  1.00 58.13      MS13
ATOM  46575  CG  ASN M 106     238.023 111.321   0.960  1.00 58.13      MS13
ATOM  46576  OD1 ASN M 106     237.692 111.196  -0.213  1.00 58.13      MS13
ATOM  46577  ND2 ASN M 106     237.341 112.052   1.823  1.00 58.13      MS13
ATOM  46578  C   ASN M 106     240.260 108.482   2.086  1.00 75.68      MS13
ATOM  46579  O   ASN M 106     240.680 108.991   3.131  1.00 75.68      MS13
ATOM  46580  N   ALA M 107     240.776 107.377   1.567  1.00 37.62      MS13
ATOM  46581  CA  ALA M 107     241.866 106.685   2.231  1.00 37.62      MS13
ATOM  46582  CB  ALA M 107     241.318 105.631   3.180  1.00 39.31      MS13
ATOM  46583  C   ALA M 107     242.646 106.025   1.132  1.00 37.62      MS13
ATOM  46584  O   ALA M 107     243.372 105.055   1.353  1.00 37.62      MS13
ATOM  46585  N   ARG M 108     242.486 106.568  -0.063  1.00 55.28      MS13
ATOM  46586  CA  ARG M 108     243.124 106.004  -1.232  1.00 55.28      MS13
ATOM  46587  CB  ARG M 108     242.579 106.683  -2.491  1.00 56.76      MS13
ATOM  46588  CG  ARG M 108     241.081 106.460  -2.715  1.00 56.76      MS13
ATOM  46589  CD  ARG M 108     240.508 105.205  -1.995  1.00 56.76      MS13
ATOM  46590  NE  ARG M 108     241.125 103.933  -2.382  1.00 56.76      MS13
ATOM  46591  CZ  ARG M 108     240.635 102.735  -2.069  1.00 56.76      MS13
ATOM  46592  NH1 ARG M 108     239.517 102.625  -1.366  1.00 56.76      MS13
ATOM  46593  NH2 ARG M 108     241.262 101.640  -2.461  1.00 56.76      MS13
ATOM  46594  C   ARG M 108     244.638 105.989  -1.274  1.00 55.28      MS13
ATOM  46595  O   ARG M 108     245.241 104.983  -1.643  1.00 55.28      MS13
ATOM  46596  N   THR M 109     245.264 107.088  -0.894  1.00 42.07      MS13
ATOM  46597  CA  THR M 109     246.715 107.132  -0.955  1.00 42.07      MS13
ATOM  46598  CB  THR M 109     247.226 108.500  -0.497  1.00 45.30      MS13
ATOM  46599  OG1 THR M 109     248.555 108.711  -0.979  1.00 45.30      MS13
ATOM  46600  CG2 THR M 109     247.227 108.561   0.995  1.00 45.30      MS13
ATOM  46601  C   THR M 109     247.359 106.018  -0.116  1.00 42.07      MS13
ATOM  46602  O   THR M 109     248.474 105.570  -0.390  1.00 42.07      MS13
ATOM  46603  N   ARG M 110     246.646 105.550   0.894  1.00 30.14      MS13
ATOM  46604  CA  ARG M 110     247.195 104.507   1.734  1.00 30.14      MS13
ATOM  46605  CB  ARG M 110     246.874 104.799   3.200  1.00 60.25      MS13
ATOM  46606  CG  ARG M 110     247.816 104.130   4.176  1.00 60.25      MS13
ATOM  46607  CD  ARG M 110     249.014 105.013   4.515  1.00 60.25      MS13
ATOM  46608  NE  ARG M 110     250.200 104.222   4.830  1.00 60.25      MS13
ATOM  46609  CZ  ARG M 110     250.221 103.180   5.659  1.00 60.25      MS13
ATOM  46610  NH1 ARG M 110     249.117 102.785   6.277  1.00 60.25      MS13
ATOM  46611  NH2 ARG M 110     251.350 102.513   5.859  1.00 60.25      MS13
ATOM  46612  C   ARG M 110     246.665 103.125   1.349  1.00 30.14      MS13
ATOM  46613  O   ARG M 110     247.329 102.121   1.601  1.00 30.14      MS13
ATOM  46614  N   LYS M 111     245.472 103.076   0.747  1.00 52.49      MS13
ATOM  46615  CA  LYS M 111     244.845 101.808   0.339  1.00 52.49      MS13
ATOM  46616  CB  LYS M 111     243.330 101.844   0.587  1.00 74.91      MS13
ATOM  46617  CG  LYS M 111     242.937 101.789   2.057  1.00 74.91      MS13
ATOM  46618  CD  LYS M 111     241.579 101.103   2.273  1.00 74.91      MS13
ATOM  46619  CE  LYS M 111     240.401 101.968   1.827  1.00 74.91      MS13
ATOM  46620  NZ  LYS M 111     239.074 101.441   2.273  1.00 74.91      MS13
ATOM  46621  C   LYS M 111     245.111 101.438  -1.116  1.00 52.49      MS13
ATOM  46622  O   LYS M 111     245.181 100.257  -1.460  1.00 52.49      MS13
ATOM  46623  N   GLY M 112     245.230 102.450  -1.970  1.00 53.87      MS13
ATOM  46624  CA  GLY M 112     245.532 102.211  -3.372  1.00 53.87      MS13
ATOM  46625  C   GLY M 112     244.407 102.206  -4.386  1.00 53.87      MS13
ATOM  46626  O   GLY M 112     243.510 103.045  -4.336  1.00 53.87      MS13
ATOM  46627  N   PRO M 113     244.454 101.277  -5.353  1.00 60.88      MS13
ATOM  46628  CD  PRO M 113     245.568 100.356  -5.629  1.00143.87      MS13
ATOM  46629  CA  PRO M 113     243.426 101.166  -6.389  1.00 60.88      MS13
ATOM  46630  CB  PRO M 113     243.937 100.019  -7.254  1.00143.87      MS13
ATOM  46631  CG  PRO M 113     245.422 100.130  -7.108  1.00143.87      MS13
ATOM  46632  C   PRO M 113     242.089 100.842  -5.731  1.00 60.88      MS13
ATOM  46633  O   PRO M 113     242.036 100.055  -4.784  1.00 60.88      MS13
ATOM  46634  N   ARG M 114     241.012 101.447  -6.223  1.00 65.18      MS13
ATOM  46635  CA  ARG M 114     239.702 101.200  -5.637  1.00 65.18      MS13
ATOM  46636  CB  ARG M 114     238.701 102.254  -6.117  1.00106.54      MS13
ATOM  46637  CG  ARG M 114     237.636 102.578  -5.082  1.00106.54      MS13
ATOM  46638  CD  ARG M 114     236.987 103.929  -5.331  1.00106.54      MS13
ATOM  46639  NE  ARG M 114     237.970 105.008  -5.384  1.00106.54      MS13
ATOM  46640  CZ  ARG M 114     237.662 106.294  -5.528  1.00106.54      MS13
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ATOM  46641  NH1 ARG M 114     236.393 106.667  -5.628  1.00106.54      MS13
ATOM  46642  NH2 ARG M 114     238.625 107.206  -5.595  1.00106.54      MS13
ATOM  46643  C   ARG M 114     239.228  99.794  -5.985  1.00 65.18      MS13
ATOM  46644  O   ARG M 114     239.313  99.367  -7.133  1.00 65.18      MS13
ATOM  46645  N   LYS M 115     238.737  99.075  -4.981  1.00 64.03      MS13
ATOM  46646  CA  LYS M 115     238.276  97.705  -5.168  1.00 64.03      MS13
ATOM  46647  CB  LYS M 115     238.917  96.812  -4.119  1.00105.80      MS13
ATOM  46648  CG  LYS M 115     240.379  97.097  -3.898  1.00105.80      MS13
ATOM  46649  CD  LYS M 115     240.968  96.084  -2.954  1.00105.80      MS13
ATOM  46650  CE  LYS M 115     240.736  94.672  -3.479  1.00105.80      MS13
ATOM  46651  NZ  LYS M 115     241.266  94.481  -4.861  1.00105.80      MS13
ATOM  46652  C   LYS M 115     236.761  97.575  -5.066  1.00 64.03      MS13
ATOM  46653  O   LYS M 115     236.242  97.124  -4.043  1.00 64.03      MS13
ATOM  46654  N   THR M 116     236.059  97.950  -6.132  1.00 61.03      MS13
ATOM  46655  CA  THR M 116     234.602  97.887  -6.155  1.00 61.03      MS13
ATOM  46656  CB  THR M 116     234.069  98.318  -7.530  1.00117.02      MS13
ATOM  46657  OG1 THR M 116     234.529  99.645  -7.826  1.00117.02      MS13
ATOM  46658  CG2 THR M 116     232.556  98.305  -7.538  1.00117.02      MS13
ATOM  46659  C   THR M 116     234.103  96.483  -5.829  1.00 61.03      MS13
ATOM  46660  O   THR M 116     234.870  95.524  -5.900  1.00 61.03      MS13
ATOM  46661  N   VAL M 117     232.828  96.367  -5.457  1.00 56.58      MS13
ATOM  46662  CA  VAL M 117     232.227  95.069  -5.115  1.00 56.58      MS13
ATOM  46663  CB  VAL M 117     232.247  94.803  -3.590  1.00 53.82      MS13
ATOM  46664  CG1 VAL M 117     232.375  93.316  -3.335  1.00 53.82      MS13
ATOM  46665  CG2 VAL M 117     233.361  95.589  -2.914  1.00 53.82      MS13
ATOM  46666  C   VAL M 117     230.759  95.008  -5.543  1.00 56.58      MS13
ATOM  46667  O   VAL M 117     230.293  95.828  -6.331  1.00 56.58      MS13
ATOM  46668  N   ALA M 118     230.033  94.024  -5.024  1.00180.43      MS13
ATOM  46669  CA  ALA M 118     228.614  93.906  -5.324  1.00180.43      MS13
ATOM  46670  CB  ALA M 118     228.113  92.521  -4.959  1.00125.86      MS13
ATOM  46671  C   ALA M 118     227.979  94.962  -4.425  1.00180.43      MS13
ATOM  46672  O   ALA M 118     228.700  95.739  -3.794  1.00180.43      MS13
ATOM  46673  N   GLY M 119     226.653  95.011  -4.349  1.00113.75      MS13
ATOM  46674  CA  GLY M 119     226.054  96.013  -3.487  1.00113.75      MS13
ATOM  46675  C   GLY M 119     224.546  96.110  -3.416  1.00113.75      MS13
ATOM  46676  O   GLY M 119     223.824  95.230  -3.884  1.00113.75      MS13
TER   46676       GLY M 119                                             MS13
ATOM  46737  CB  ALA N   2     216.125 117.996  27.502  1.00 43.01      NS14
ATOM  46738  C   ALA N   2     216.408 116.420  29.422  1.00 58.30      NS14
ATOM  46739  O   ALA N   2     215.346 116.849  29.869  1.00 58.30      NS14
ATOM  46740  N   ALA N   2     217.765 116.128  27.380  1.00 58.30      NS14
ATOM  46741  CA  ALA N   2     217.117 117.124  28.280  1.00 58.30      NS14
ATOM  46742  N   ARG N   3     216.988 115.320  29.877  1.00 84.28      NS14
ATOM  46743  CA  ARG N   3     216.417 114.597  30.994  1.00 84.28      NS14
ATOM  46744  CB  ARG N   3     217.010 113.198  31.082  1.00 93.52      NS14
ATOM  46745  CG  ARG N   3     216.793 112.395  29.824  1.00 93.52      NS14
ATOM  46746  CD  ARG N   3     218.106 112.061  29.162  1.00 93.52      NS14
ATOM  46747  NE  ARG N   3     218.939 111.242  30.036  1.00 93.52      NS14
ATOM  46748  CZ  ARG N   3     220.113 110.735  29.681  1.00 93.52      NS14
ATOM  46749  NH1 ARG N   3     220.589 110.966  28.464  1.00 93.52      NS14
ATOM  46750  NH2 ARG N   3     220.812 110.004  30.541  1.00 93.52      NS14
ATOM  46751  C   ARG N   3     216.793 115.414  32.220  1.00 84.28      NS14
ATOM  46752  O   ARG N   3     217.741 116.201  32.178  1.00 84.28      NS14
ATOM  46753  N   LYS N   4     216.050 115.243  33.307  1.00 56.54      NS14
ATOM  46754  CA  LYS N   4     216.319 115.992  34.527  1.00 56.54      NS14
ATOM  46755  CB  LYS N   4     215.307 115.609  35.611  1.00174.72      NS14
ATOM  46756  CG  LYS N   4     213.859 115.531  35.125  1.00174.72      NS14
ATOM  46757  CD  LYS N   4     213.349 116.860  34.585  1.00174.72      NS14
ATOM  46758  CE  LYS N   4     213.229 117.899  35.687  1.00174.72      NS14
ATOM  46759  NZ  LYS N   4     212.635 119.170  35.188  1.00174.72      NS14
ATOM  46760  C   LYS N   4     217.732 115.676  34.988  1.00 56.54      NS14
ATOM  46761  O   LYS N   4     218.534 116.576  35.236  1.00 56.54      NS14
ATOM  46762  N   ALA N   5     218.030 114.383  35.079  1.00 56.57      NS14
ATOM  46763  CA  ALA N   5     219.345 113.926  35.514  1.00 56.57      NS14
ATOM  46764  CB  ALA N   5     219.460 112.407  35.352  1.00 33.83      NS14
ATOM  46765  C   ALA N   5     220.453 114.611  34.735  1.00 56.57      NS14
ATOM  46766  O   ALA N   5     221.549 114.805  35.255  1.00 56.57      NS14
ATOM  46767  N   LEU N   6     220.161 114.973  33.488  1.00 76.79      NS14
ATOM  46768  CA  LEU N   6     221.145 115.621  32.633  1.00 76.79      NS14
ATOM  46769  CB  LEU N   6     221.012 115.149  31.187  1.00 68.88      NS14
ATOM  46770  CG  LEU N   6     221.154 113.652  30.914  1.00 68.88      NS14
ATOM  46771  CD1 LEU N   6     221.332 113.492  29.429  1.00 68.88      NS14
ATOM  46772  CD2 LEU N   6     222.345 113.047  31.649  1.00 68.88      NS14
ATOM  46773  C   LEU N   6     221.059 117.128  32.676  1.00 76.79      NS14
ATOM  46774  O   LEU N   6     221.340 117.809  31.689  1.00 76.79      NS14
ATOM  46775  N   ILE N   7     220.643 117.646  33.822  1.00 80.92      NS14
ATOM  46776  CA  ILE N   7     220.582 119.080  34.027  1.00 80.92      NS14
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ATOM	46777	CB	ILE	N	7	219.164	119.557	34.295	1.00	54.54	NS14
ATOM	46778	CG2	ILE	N	7	219.049	121.025	33.929	1.00	54.54	NS14
ATOM	46779	CG1	ILE	N	7	218.190	118.770	33.422	1.00	54.54	NS14
ATOM	46780	CD1	ILE	N	7	216.751	119.010	33.756	1.00	54.54	NS14
ATOM	46781	C	ILE	N	7	221.445	119.237	35.265	1.00	80.92	NS14
ATOM	46782	O	ILE	N	7	221.212	120.084	36.124	1.00	80.92	NS14
ATOM	46783	N	GLU	N	8	222.436	118.353	35.338	1.00	84.88	NS14
ATOM	46784	CA	GLU	N	8	223.404	118.322	36.415	1.00	84.88	NS14
ATOM	46785	CB	GLU	N	8	223.911	116.896	36.652	1.00	118.09	NS14
ATOM	46786	CG	GLU	N	8	224.798	116.346	35.543	1.00	118.09	NS14
ATOM	46787	CD	GLU	N	8	225.252	114.919	35.808	1.00	118.09	NS14
ATOM	46788	OE1	GLU	N	8	225.823	114.666	36.891	1.00	118.09	NS14
ATOM	46789	OE2	GLU	N	8	225.041	114.050	34.934	1.00	118.09	NS14
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ATOM	46791	O	GLU	N	8	225.654	119.147	36.500	1.00	84.88	NS14
ATOM	46792	N	LYS	N	9	224.277	120.031	34.949	1.00	81.97	NS14
ATOM	46793	CA	LYS	N	9	225.255	120.994	34.464	1.00	81.97	NS14
ATOM	46794	CB	LYS	N	9	224.975	121.405	33.017	1.00	110.30	NS14
ATOM	46795	CG	LYS	N	9	225.914	122.504	32.488	1.00	110.30	NS14
ATOM	46796	CD	LYS	N	9	225.504	123.908	32.964	1.00	110.30	NS14
ATOM	46797	CE	LYS	N	9	226.555	124.974	32.635	1.00	110.30	NS14
ATOM	46798	NZ	LYS	N	9	227.815	124.824	33.426	1.00	110.30	NS14
ATOM	46799	C	LYS	N	9	225.017	122.177	35.389	1.00	81.97	NS14
ATOM	46800	O	LYS	N	9	225.885	123.026	35.592	1.00	81.97	NS14
ATOM	46801	N	ALA	N	10	223.816	122.219	35.955	1.00	201.26	NS14
ATOM	46802	CA	ALA	N	10	223.458	123.272	36.887	1.00	201.26	NS14
ATOM	46803	CB	ALA	N	10	222.037	123.061	37.385	1.00	44.65	NS14
ATOM	46804	C	ALA	N	10	224.454	123.174	38.039	1.00	201.26	NS14
ATOM	46805	O	ALA	N	10	224.588	124.095	38.845	1.00	201.26	NS14
ATOM	46806	N	LYS	N	11	225.153	122.040	38.097	1.00	146.41	NS14
ATOM	46807	CA	LYS	N	11	226.161	121.792	39.121	1.00	146.41	NS14
ATOM	46808	CB	LYS	N	11	226.487	120.301	39.225	1.00	72.92	NS14
ATOM	46809	CG	LYS	N	11	225.445	119.482	39.937	1.00	72.92	NS14
ATOM	46810	CD	LYS	N	11	225.981	118.097	40.236	1.00	72.92	NS14
ATOM	46811	CE	LYS	N	11	224.945	117.231	40.950	1.00	72.92	NS14
ATOM	46812	NZ	LYS	N	11	223.751	116.893	40.106	1.00	72.92	NS14
ATOM	46813	C	LYS	N	11	227.449	122.545	38.829	1.00	146.41	NS14
ATOM	46814	O	LYS	N	11	228.273	122.106	38.022	1.00	146.41	NS14
ATOM	46815	N	ARG	N	12	227.617	123.679	39.498	1.00	201.26	NS14
ATOM	46816	CA	ARG	N	12	228.811	124.499	39.343	1.00	201.26	NS14
ATOM	46817	CB	ARG	N	12	228.658	125.777	40.170	1.00	200.87	NS14
ATOM	46818	CG	ARG	N	12	229.809	126.756	40.073	1.00	200.87	NS14
ATOM	46819	CD	ARG	N	12	229.470	128.021	40.838	1.00	200.87	NS14
ATOM	46820	NE	ARG	N	12	230.596	128.944	40.917	1.00	200.87	NS14
ATOM	46821	CZ	ARG	N	12	230.544	130.129	41.517	1.00	200.87	NS14
ATOM	46822	NH1	ARG	N	12	229.418	130.536	42.089	1.00	200.87	NS14
ATOM	46823	NH2	ARG	N	12	231.619	130.907	41.550	1.00	200.87	NS14
ATOM	46824	C	ARG	N	12	230.000	123.675	39.835	1.00	201.26	NS14
ATOM	46825	O	ARG	N	12	231.142	124.128	39.814	1.00	201.26	NS14
ATOM	46826	N	THR	N	13	229.700	122.456	40.279	1.00	137.54	NS14
ATOM	46827	CA	THR	N	13	230.690	121.512	40.778	1.00	137.54	NS14
ATOM	46828	CB	THR	N	13	230.188	120.806	42.055	1.00	201.26	NS14
ATOM	46829	OG1	THR	N	13	229.912	121.782	43.067	1.00	201.26	NS14
ATOM	46830	CG2	THR	N	13	231.231	119.826	42.568	1.00	201.26	NS14
ATOM	46831	C	THR	N	13	230.901	120.461	39.695	1.00	137.54	NS14
ATOM	46832	O	THR	N	13	230.278	119.401	39.717	1.00	137.54	NS14
ATOM	46833	N	PRO	N	14	231.786	120.746	38.730	1.00	91.85	NS14
ATOM	46834	CD	PRO	N	14	232.562	121.993	38.615	1.00	103.07	NS14
ATOM	46835	CA	PRO	N	14	232.098	119.849	37.615	1.00	91.85	NS14
ATOM	46836	CB	PRO	N	14	232.795	120.775	36.635	1.00	103.07	NS14
ATOM	46837	CG	PRO	N	14	233.590	121.641	37.558	1.00	103.07	NS14
ATOM	46838	C	PRO	N	14	232.965	118.640	37.952	1.00	91.85	NS14
ATOM	46839	O	PRO	N	14	232.790	117.573	37.362	1.00	91.85	NS14
ATOM	46840	N	LYS	N	15	233.893	118.817	38.892	1.00	103.03	NS14
ATOM	46841	CA	LYS	N	15	234.830	117.766	39.302	1.00	103.03	NS14
ATOM	46842	CB	LYS	N	15	234.183	116.375	39.201	1.00	121.76	NS14
ATOM	46843	CG	LYS	N	15	235.058	115.204	39.657	1.00	121.76	NS14
ATOM	46844	CD	LYS	N	15	234.277	113.888	39.592	1.00	121.76	NS14
ATOM	46845	CE	LYS	N	15	235.019	112.725	40.251	1.00	121.76	NS14
ATOM	46846	NZ	LYS	N	15	236.273	112.342	39.544	1.00	121.76	NS14
ATOM	46847	C	LYS	N	15	236.023	117.861	38.357	1.00	103.03	NS14
ATOM	46848	O	LYS	N	15	237.022	117.163	38.519	1.00	103.03	NS14
ATOM	46849	N	PHE	N	16	235.893	118.756	37.379	1.00	61.57	NS14
ATOM	46850	CA	PHE	N	16	236.903	119.006	36.358	1.00	61.57	NS14
ATOM	46851	CB	PHE	N	16	237.032	117.810	35.439	1.00	56.07	NS14
ATOM	46852	CG	PHE	N	16	237.905	116.735	35.974	1.00	56.07	NS14
ATOM	46853	CD1	PHE	N	16	237.472	115.410	35.983	1.00	56.07	NS14

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ATOM  46854  CD2 PHE N  16     239.178 117.030  36.435  1.00 56.07      NS14
ATOM  46855  CE1 PHE N  16     238.299 114.392  36.440  1.00 56.07      NS14
ATOM  46856  CE2 PHE N  16     240.013 116.019  36.895  1.00 56.07      NS14
ATOM  46857  CZ  PHE N  16     239.573 114.697  36.897  1.00 56.07      NS14
ATOM  46858  C   PHE N  16     236.453 120.190  35.532  1.00 61.57      NS14
ATOM  46859  O   PHE N  16     235.387 120.148  34.928  1.00 61.57      NS14
ATOM  46860  N   LYS N  17     237.272 121.232  35.488  1.00 69.11      NS14
ATOM  46861  CA  LYS N  17     236.940 122.442  34.742  1.00 69.11      NS14
ATOM  46862  CB  LYS N  17     238.179 123.339  34.634  1.00196.31      NS14
ATOM  46863  CG  LYS N  17     237.987 124.581  33.766  1.00196.31      NS14
ATOM  46864  CD  LYS N  17     236.930 125.516  34.334  1.00196.31      NS14
ATOM  46865  CE  LYS N  17     236.680 126.683  33.396  1.00196.31      NS14
ATOM  46866  NZ  LYS N  17     237.938 127.415  33.091  1.00196.31      NS14
ATOM  46867  C   LYS N  17     236.347 122.231  33.344  1.00 69.11      NS14
ATOM  46868  O   LYS N  17     235.341 122.851  32.989  1.00 69.11      NS14
ATOM  46869  N   VAL N  18     236.969 121.364  32.553  1.00 83.35      NS14
ATOM  46870  CA  VAL N  18     236.517 121.107  31.187  1.00 83.35      NS14
ATOM  46871  CB  VAL N  18     237.436 120.094  30.487  1.00 85.37      NS14
ATOM  46872  CG1 VAL N  18     238.783 120.732  30.208  1.00 85.37      NS14
ATOM  46873  CG2 VAL N  18     237.595 118.846  31.355  1.00 85.37      NS14
ATOM  46874  C   VAL N  18     235.080 120.626  31.030  1.00 83.35      NS14
ATOM  46875  O   VAL N  18     234.341 121.128  30.178  1.00 83.35      NS14
ATOM  46876  N   ARG N  19     234.684 119.659  31.849  1.00 54.60      NS14
ATOM  46877  CA  ARG N  19     233.340 119.103  31.775  1.00 54.60      NS14
ATOM  46878  CB  ARG N  19     233.192 117.994  32.806  1.00 51.65      NS14
ATOM  46879  CG  ARG N  19     234.348 117.034  32.827  1.00 51.65      NS14
ATOM  46880  CD  ARG N  19     233.939 115.772  33.541  1.00 51.65      NS14
ATOM  46881  NE  ARG N  19     235.032 114.815  33.642  1.00 51.65      NS14
ATOM  46882  CZ  ARG N  19     234.910 113.596  34.162  1.00 51.65      NS14
ATOM  46883  NH1 ARG N  19     233.736 113.177  34.630  1.00 51.65      NS14
ATOM  46884  NH2 ARG N  19     235.966 112.796  34.221  1.00 51.65      NS14
ATOM  46885  C   ARG N  19     232.182 120.096  31.931  1.00 54.60      NS14
ATOM  46886  O   ARG N  19     231.061 119.689  32.203  1.00 54.60      NS14
ATOM  46887  N   ALA N  20     232.438 121.386  31.747  1.00 89.84      NS14
ATOM  46888  CA  ALA N  20     231.382 122.385  31.877  1.00 89.84      NS14
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ATOM  46891  O   ALA N  20     231.369 122.817  29.531  1.00 89.84      NS14
ATOM  46892  N   TYR N  21     229.351 122.528  30.501  1.00 36.54      NS14
ATOM  46893  CA  TYR N  21     228.652 122.730  29.226  1.00 36.54      NS14
ATOM  46894  CB  TYR N  21     228.420 121.390  28.515  1.00 59.34      NS14
ATOM  46895  CG  TYR N  21     227.405 120.452  29.133  1.00 59.34      NS14
ATOM  46896  CD1 TYR N  21     227.773 119.555  30.128  1.00 59.34      NS14
ATOM  46897  CE1 TYR N  21     226.864 118.624  30.628  1.00 59.34      NS14
ATOM  46898  CD2 TYR N  21     226.096 120.406  28.656  1.00 59.34      NS14
ATOM  46899  CE2 TYR N  21     225.184 119.484  29.148  1.00 59.34      NS14
ATOM  46900  CZ  TYR N  21     225.573 118.593  30.130  1.00 59.34      NS14
ATOM  46901  OH  TYR N  21     224.686 117.651  30.597  1.00 59.34      NS14
ATOM  46902  C   TYR N  21     227.362 123.530  29.164  1.00 36.54      NS14
ATOM  46903  O   TYR N  21     226.309 123.074  29.583  1.00 36.54      NS14
ATOM  46904  N   THR N  22     227.472 124.719  28.590  1.00 65.94      NS14
ATOM  46905  CA  THR N  22     226.362 125.641  28.397  1.00 65.94      NS14
ATOM  46906  CB  THR N  22     226.271 126.040  26.918  1.00 83.92      NS14
ATOM  46907  OG1 THR N  22     226.706 124.946  26.092  1.00 83.92      NS14
ATOM  46908  CG2 THR N  22     227.115 127.276  26.658  1.00 83.92      NS14
ATOM  46909  C   THR N  22     224.943 125.283  28.870  1.00 65.94      NS14
ATOM  46910  O   THR N  22     224.531 125.708  29.953  1.00 65.94      NS14
ATOM  46911  N   ARG N  23     224.195 124.533  28.052  1.00 45.89      NS14
ATOM  46912  CA  ARG N  23     222.804 124.154  28.353  1.00 45.89      NS14
ATOM  46913  CB  ARG N  23     222.699 123.464  29.707  1.00 50.53      NS14
ATOM  46914  CG  ARG N  23     223.124 122.016  29.720  1.00 50.53      NS14
ATOM  46915  CD  ARG N  23     222.104 121.125  29.054  1.00 50.53      NS14
ATOM  46916  NE  ARG N  23     222.395 119.726  29.336  1.00 50.53      NS14
ATOM  46917  CZ  ARG N  23     221.863 118.709  28.672  1.00 50.53      NS14
ATOM  46918  NH1 ARG N  23     221.006 118.949  27.684  1.00 50.53      NS14
ATOM  46919  NH2 ARG N  23     222.193 117.457  28.988  1.00 50.53      NS14
ATOM  46920  C   ARG N  23     221.886 125.379  28.349  1.00 45.89      NS14
ATOM  46921  O   ARG N  23     222.294 126.471  28.757  1.00 45.89      NS14
ATOM  46922  N   CYS N  24     220.645 125.203  27.898  1.00 77.23      NS14
ATOM  46923  CA  CYS N  24     219.714 126.325  27.843  1.00 77.23      NS14
ATOM  46924  CB  CYS N  24     218.582 126.058  26.839  1.00 41.61      NS14
ATOM  46925  SG  CYS N  24     217.738 127.577  26.241  1.00 41.61      NS14
ATOM  46926  C   CYS N  24     219.130 126.631  29.212  1.00 77.23      NS14
ATOM  46927  O   CYS N  24     218.935 125.741  30.042  1.00 77.23      NS14
ATOM  46928  N   VAL N  25     218.862 127.909  29.439  1.00 74.72      NS14
ATOM  46929  CA  VAL N  25     218.306 128.367  30.697  1.00 74.72      NS14
ATOM  46930  CB  VAL N  25     218.900 129.729  31.084  1.00 92.88      NS14
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ATOM  46931  CG1 VAL N  25     218.337 130.829  30.187  1.00 92.88      NS14
ATOM  46932  CG2 VAL N  25     218.618 130.008  32.533  1.00 92.88      NS14
ATOM  46933  C   VAL N  25     216.800 128.512  30.548  1.00 74.72      NS14
ATOM  46934  O   VAL N  25     216.157 129.248  31.295  1.00 74.72      NS14
ATOM  46935  N   ARG N  26     216.242 127.799  29.577  1.00112.67      NS14
ATOM  46936  CA  ARG N  26     214.811 127.861  29.313  1.00112.67      NS14
ATOM  46937  CB  ARG N  26     214.538 128.929  28.256  1.00 61.63      NS14
ATOM  46938  CG  ARG N  26     213.090 129.158  27.910  1.00 61.63      NS14
ATOM  46939  CD  ARG N  26     212.957 130.566  27.358  1.00 61.63      NS14
ATOM  46940  NE  ARG N  26     211.633 130.869  26.830  1.00 61.63      NS14
ATOM  46941  CZ  ARG N  26     211.159 130.394  25.681  1.00 61.63      NS14
ATOM  46942  NH1 ARG N  26     211.907 129.590  24.934  1.00 61.63      NS14
ATOM  46943  NH2 ARG N  26     209.938 130.725  25.275  1.00 61.63      NS14
ATOM  46944  C   ARG N  26     214.286 126.521  28.840  1.00112.67      NS14
ATOM  46945  O   ARG N  26     213.189 126.114  29.218  1.00112.67      NS14
ATOM  46946  N   CYS N  27     215.079 125.838  28.017  1.00 67.72      NS14
ATOM  46947  CA  CYS N  27     214.700 124.534  27.477  1.00 67.72      NS14
ATOM  46948  CB  CYS N  27     214.553 124.622  25.956  1.00 41.44      NS14
ATOM  46949  SG  CYS N  27     216.114 124.793  25.095  1.00 41.44      NS14
ATOM  46950  C   CYS N  27     215.720 123.448  27.834  1.00 67.72      NS14
ATOM  46951  O   CYS N  27     215.358 122.279  28.014  1.00 67.72      NS14
ATOM  46952  N   GLY N  28     216.991 123.842  27.935  1.00 79.30      NS14
ATOM  46953  CA  GLY N  28     218.050 122.900  28.272  1.00 79.30      NS14
ATOM  46954  C   GLY N  28     218.819 122.434  27.050  1.00 79.30      NS14
ATOM  46955  O   GLY N  28     219.774 121.654  27.141  1.00 79.30      NS14
ATOM  46956  N   ARG N  29     218.379 122.923  25.896  1.00 89.53      NS14
ATOM  46957  CA  ARG N  29     218.986 122.591  24.621  1.00 89.53      NS14
ATOM  46958  CB  ARG N  29     218.457 123.538  23.543  1.00 84.71      NS14
ATOM  46959  CG  ARG N  29     218.772 123.099  22.144  1.00 84.71      NS14
ATOM  46960  CD  ARG N  29     218.048 121.816  21.828  1.00 84.71      NS14
ATOM  46961  NE  ARG N  29     218.575 121.183  20.628  1.00 84.71      NS14
ATOM  46962  CZ  ARG N  29     218.651 121.771  19.437  1.00 84.71      NS14
ATOM  46963  NH1 ARG N  29     218.235 123.021  19.277  1.00 84.71      NS14
ATOM  46964  NH2 ARG N  29     219.142 121.100  18.402  1.00 84.71      NS14
ATOM  46965  C   ARG N  29     220.496 122.734  24.737  1.00 89.53      NS14
ATOM  46966  O   ARG N  29     221.010 123.842  24.817  1.00 89.53      NS14
ATOM  46967  N   ALA N  30     221.208 121.614  24.746  1.00109.07      NS14
ATOM  46968  CA  ALA N  30     222.662 121.642  24.861  1.00109.07      NS14
ATOM  46969  CB  ALA N  30     223.189 120.214  25.040  1.00 42.92      NS14
ATOM  46970  C   ALA N  30     223.372 122.325  23.678  1.00109.07      NS14
ATOM  46971  O   ALA N  30     224.358 123.043  23.871  1.00109.07      NS14
ATOM  46972  N   ARG N  31     222.860 122.106  22.465  1.00 27.67      NS14
ATOM  46973  CA  ARG N  31     223.437 122.658  21.237  1.00 27.67      NS14
ATOM  46974  CB  ARG N  31     223.131 121.736  20.059  1.00 62.68      NS14
ATOM  46975  CG  ARG N  31     223.696 120.327  20.213  1.00 62.68      NS14
ATOM  46976  CD  ARG N  31     223.650 119.583  18.886  1.00 62.68      NS14
ATOM  46977  NE  ARG N  31     224.685 118.556  18.807  1.00 62.68      NS14
ATOM  46978  CZ  ARG N  31     224.539 117.308  19.233  1.00 62.68      NS14
ATOM  46979  NH1 ARG N  31     223.384 116.916  19.766  1.00 62.68      NS14
ATOM  46980  NH2 ARG N  31     225.559 116.462  19.142  1.00 62.68      NS14
ATOM  46981  C   ARG N  31     222.986 124.069  20.903  1.00 27.67      NS14
ATOM  46982  O   ARG N  31     222.093 124.599  21.549  1.00 27.67      NS14
ATOM  46983  N   SER N  32     223.612 124.662  19.884  1.00 32.68      NS14
ATOM  46984  CA  SER N  32     223.335 126.039  19.430  1.00 32.68      NS14
ATOM  46985  CB  SER N  32     222.179 126.040  18.421  1.00126.72      NS14
ATOM  46986  OG  SER N  32     221.015 125.446  18.964  1.00126.72      NS14
ATOM  46987  C   SER N  32     223.061 127.070  20.549  1.00 32.68      NS14
ATOM  46988  O   SER N  32     222.347 128.052  20.342  1.00 32.68      NS14
ATOM  46989  N   VAL N  33     223.671 126.848  21.712  1.00 74.98      NS14
ATOM  46990  CA  VAL N  33     223.512 127.699  22.896  1.00 74.98      NS14
ATOM  46991  CB  VAL N  33     223.910 126.923  24.159  1.00 81.09      NS14
ATOM  46992  CG1 VAL N  33     222.744 126.112  24.658  1.00 81.09      NS14
ATOM  46993  CG2 VAL N  33     225.090 126.002  23.841  1.00 81.09      NS14
ATOM  46994  C   VAL N  33     224.301 129.003  22.923  1.00 74.98      NS14
ATOM  46995  O   VAL N  33     225.440 129.018  23.384  1.00 74.98      NS14
ATOM  46996  N   TYR N  34     223.702 130.100  22.468  1.00 85.20      NS14
ATOM  46997  CA  TYR N  34     224.399 131.386  22.470  1.00 85.20      NS14
ATOM  46998  CB  TYR N  34     223.499 132.468  21.889  1.00 70.92      NS14
ATOM  46999  CG  TYR N  34     223.369 132.410  20.385  1.00 70.92      NS14
ATOM  47000  CD1 TYR N  34     222.923 131.260  19.737  1.00 70.92      NS14
ATOM  47001  CE1 TYR N  34     222.771 131.228  18.337  1.00 70.92      NS14
ATOM  47002  CD2 TYR N  34     223.665 133.523  19.609  1.00 70.92      NS14
ATOM  47003  CE2 TYR N  34     223.520 133.509  18.219  1.00 70.92      NS14
ATOM  47004  CZ  TYR N  34     223.074 132.365  17.586  1.00 70.92      NS14
ATOM  47005  OH  TYR N  34     222.940 132.380  16.211  1.00 70.92      NS14
ATOM  47006  C   TYR N  34     224.846 131.767  23.884  1.00 85.20      NS14
ATOM  47007  O   TYR N  34     224.284 131.265  24.854  1.00 85.20      NS14
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ATOM  47008  N   ARG N  35     225.855 132.640  23.998  1.00 58.82      NS14
ATOM  47009  CA  ARG N  35     226.394 133.069  25.301  1.00 58.82      NS14
ATOM  47010  CB  ARG N  35     227.874 133.416  25.182  1.00120.81      NS14
ATOM  47011  CG  ARG N  35     228.838 132.251  25.124  1.00120.81      NS14
ATOM  47012  CD  ARG N  35     230.239 132.814  24.938  1.00120.81      NS14
ATOM  47013  NE  ARG N  35     231.295 131.809  24.957  1.00120.81      NS14
ATOM  47014  CZ  ARG N  35     232.563 132.071  24.652  1.00120.81      NS14
ATOM  47015  NH1 ARG N  35     232.918 133.303  24.304  1.00120.81      NS14
ATOM  47016  NH2 ARG N  35     233.478 131.109  24.695  1.00120.81      NS14
ATOM  47017  C   ARG N  35     225.689 134.277  25.897  1.00 58.82      NS14
ATOM  47018  O   ARG N  35     225.166 134.226  27.000  1.00 58.82      NS14
ATOM  47019  N   PHE N  36     225.727 135.371  25.156  1.00 41.80      NS14
ATOM  47020  CA  PHE N  36     225.112 136.642  25.521  1.00 41.80      NS14
ATOM  47021  CB  PHE N  36     225.463 137.635  24.393  1.00 42.94      NS14
ATOM  47022  CG  PHE N  36     225.001 139.064  24.589  1.00 42.94      NS14
ATOM  47023  CD1 PHE N  36     223.655 139.388  24.743  1.00 42.94      NS14
ATOM  47024  CD2 PHE N  36     225.914 140.104  24.445  1.00 42.94      NS14
ATOM  47025  CE1 PHE N  36     223.220 140.710  24.738  1.00 42.94      NS14
ATOM  47026  CE2 PHE N  36     225.496 141.439  24.436  1.00 42.94      NS14
ATOM  47027  CZ  PHE N  36     224.140 141.740  24.581  1.00 42.94      NS14
ATOM  47028  C   PHE N  36     223.594 136.419  25.643  1.00 41.80      NS14
ATOM  47029  O   PHE N  36     222.809 137.250  25.222  1.00 41.80      NS14
ATOM  47030  N   PHE N  37     223.171 135.291  26.203  1.00 43.65      NS14
ATOM  47031  CA  PHE N  37     221.740 135.028  26.355  1.00 43.65      NS14
ATOM  47032  CB  PHE N  37     221.082 134.801  24.997  1.00 46.71      NS14
ATOM  47033  CG  PHE N  37     220.728 136.052  24.289  1.00 46.71      NS14
ATOM  47034  CD1 PHE N  37     221.071 136.229  22.958  1.00 46.71      NS14
ATOM  47035  CD2 PHE N  37     220.079 137.075  24.957  1.00 46.71      NS14
ATOM  47036  CE1 PHE N  37     220.776 137.418  22.300  1.00 46.71      NS14
ATOM  47037  CE2 PHE N  37     219.780 138.268  24.307  1.00 46.71      NS14
ATOM  47038  CZ  PHE N  37     220.129 138.441  22.975  1.00 46.71      NS14
ATOM  47039  C   PHE N  37     221.410 133.836  27.228  1.00 43.65      NS14
ATOM  47040  O   PHE N  37     220.333 133.786  27.818  1.00 43.65      NS14
ATOM  47041  N   GLY N  38     222.329 132.874  27.294  1.00 44.20      NS14
ATOM  47042  CA  GLY N  38     222.103 131.667  28.076  1.00 44.20      NS14
ATOM  47043  C   GLY N  38     221.049 130.815  27.392  1.00 44.20      NS14
ATOM  47044  O   GLY N  38     220.731 129.702  27.825  1.00 44.20      NS14
ATOM  47045  N   LEU N  39     220.538 131.359  26.291  1.00 60.84      NS14
ATOM  47046  CA  LEU N  39     219.500 130.745  25.480  1.00 60.84      NS14
ATOM  47047  CB  LEU N  39     218.575 131.843  24.982  1.00 44.57      NS14
ATOM  47048  CG  LEU N  39     217.837 132.521  26.125  1.00 44.57      NS14
ATOM  47049  CD1 LEU N  39     216.982 133.676  25.588  1.00 44.57      NS14
ATOM  47050  CD2 LEU N  39     216.991 131.457  26.843  1.00 44.57      NS14
ATOM  47051  C   LEU N  39     219.954 129.898  24.288  1.00 60.84      NS14
ATOM  47052  O   LEU N  39     221.068 130.046  23.776  1.00 60.84      NS14
ATOM  47053  N   CYS N  40     219.059 129.014  23.851  1.00 86.04      NS14
ATOM  47054  CA  CYS N  40     219.315 128.135  22.718  1.00 86.04      NS14
ATOM  47055  CB  CYS N  40     218.561 126.826  22.890  1.00 38.92      NS14
ATOM  47056  SG  CYS N  40     216.800 127.075  22.703  1.00 38.92      NS14
ATOM  47057  C   CYS N  40     218.813 128.845  21.464  1.00 86.04      NS14
ATOM  47058  O   CYS N  40     217.964 129.736  21.543  1.00 86.04      NS14
ATOM  47059  N   ARG N  41     219.324 128.427  20.310  1.00 38.37      NS14
ATOM  47060  CA  ARG N  41     218.966 129.041  19.035  1.00 38.37      NS14
ATOM  47061  CB  ARG N  41     219.582 128.245  17.872  1.00 74.32      NS14
ATOM  47062  CG  ARG N  41     218.739 127.065  17.360  1.00 74.32      NS14
ATOM  47063  CD  ARG N  41     218.240 127.309  15.927  1.00 74.32      NS14
ATOM  47064  NE  ARG N  41     217.381 126.229  15.451  1.00 74.32      NS14
ATOM  47065  CZ  ARG N  41     217.764 124.961  15.344  1.00 74.32      NS14
ATOM  47066  NH1 ARG N  41     219.000 124.611  15.678  1.00 74.32      NS14
ATOM  47067  NH2 ARG N  41     216.905 124.042  14.910  1.00 74.32      NS14
ATOM  47068  C   ARG N  41     217.471 129.209  18.795  1.00 38.37      NS14
ATOM  47069  O   ARG N  41     217.045 130.147  18.110  1.00 38.37      NS14
ATOM  47070  N   ILE N  42     216.680 128.295  19.346  1.00 51.05      NS14
ATOM  47071  CA  ILE N  42     215.235 128.337  19.170  1.00 51.05      NS14
ATOM  47072  CB  ILE N  42     214.613 126.977  19.507  1.00 40.32      NS14
ATOM  47073  CG2 ILE N  42     213.137 126.978  19.163  1.00 40.32      NS14
ATOM  47074  CG1 ILE N  42     215.314 125.880  18.715  1.00 40.32      NS14
ATOM  47075  CD1 ILE N  42     214.802 124.499  19.031  1.00 40.32      NS14
ATOM  47076  C   ILE N  42     214.630 129.390  20.086  1.00 51.05      NS14
ATOM  47077  O   ILE N  42     213.859 130.268  19.655  1.00 51.05      NS14
ATOM  47078  N   CYS N  43     215.006 129.290  21.358  1.00 47.52      NS14
ATOM  47079  CA  CYS N  43     214.533 130.195  22.389  1.00 47.52      NS14
ATOM  47080  CB  CYS N  43     215.138 129.768  23.709  1.00 21.10      NS14
ATOM  47081  SG  CYS N  43     214.451 128.174  24.136  1.00 21.10      NS14
ATOM  47082  C   CYS N  43     214.837 131.646  22.077  1.00 47.52      NS14
ATOM  47083  O   CYS N  43     213.957 132.505  22.153  1.00 47.52      NS14
ATOM  47084  N   LEU N  44     216.083 131.918  21.717  1.00 58.87      NS14
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ATOM  47085  CA  LEU N  44     216.461 133.269  21.373  1.00 58.87      NS14
ATOM  47086  CB  LEU N  44     217.855 133.275  20.735  1.00 38.28      NS14
ATOM  47087  CG  LEU N  44     218.211 134.293  19.639  1.00 38.28      NS14
ATOM  47088  CD1 LEU N  44     217.788 135.708  20.003  1.00 38.28      NS14
ATOM  47089  CD2 LEU N  44     219.713 134.238  19.407  1.00 38.28      NS14
ATOM  47090  C   LEU N  44     215.415 133.847  20.420  1.00 58.87      NS14
ATOM  47091  O   LEU N  44     214.892 134.929  20.658  1.00 58.87      NS14
ATOM  47092  N   ARG N  45     215.074 133.111  19.369  1.00 61.91      NS14
ATOM  47093  CA  ARG N  45     214.106 133.607  18.397  1.00 61.91      NS14
ATOM  47094  CB  ARG N  45     214.046 132.689  17.178  1.00 39.49      NS14
ATOM  47095  CG  ARG N  45     213.484 133.361  15.926  1.00 39.49      NS14
ATOM  47096  CD  ARG N  45     213.673 132.476  14.685  1.00 39.49      NS14
ATOM  47097  NE  ARG N  45     212.573 131.536  14.474  1.00 39.49      NS14
ATOM  47098  CZ  ARG N  45     211.538 131.756  13.665  1.00 39.49      NS14
ATOM  47099  NH1 ARG N  45     211.454 132.892  12.976  1.00 39.49      NS14
ATOM  47100  NH2 ARG N  45     210.586 130.833  13.546  1.00 39.49      NS14
ATOM  47101  C   ARG N  45     212.712 133.766  18.967  1.00 61.91      NS14
ATOM  47102  O   ARG N  45     212.073 134.797  18.755  1.00 61.91      NS14
ATOM  47103  N   GLU N  46     212.231 132.753  19.682  1.00 76.08      NS14
ATOM  47104  CA  GLU N  46     210.891 132.833  20.259  1.00 76.08      NS14
ATOM  47105  CB  GLU N  46     210.609 131.638  21.177  1.00118.71      NS14
ATOM  47106  CG  GLU N  46     210.708 130.288  20.482  1.00118.71      NS14
ATOM  47107  CD  GLU N  46     209.914 129.197  21.183  1.00118.71      NS14
ATOM  47108  OE1 GLU N  46     210.028 129.069  22.421  1.00118.71      NS14
ATOM  47109  OE2 GLU N  46     209.179 128.460  20.489  1.00118.71      NS14
ATOM  47110  C   GLU N  46     210.764 134.123  21.049  1.00 76.08      NS14
ATOM  47111  O   GLU N  46     210.022 135.030  20.667  1.00 76.08      NS14
ATOM  47112  N   LEU N  47     211.515 134.203  22.141  1.00 58.47      NS14
ATOM  47113  CA  LEU N  47     211.498 135.373  22.999  1.00 58.47      NS14
ATOM  47114  CB  LEU N  47     212.482 135.182  24.142  1.00 50.27      NS14
ATOM  47115  CG  LEU N  47     212.210 133.876  24.890  1.00 50.27      NS14
ATOM  47116  CD1 LEU N  47     213.162 133.764  26.064  1.00 50.27      NS14
ATOM  47117  CD2 LEU N  47     210.764 133.831  25.369  1.00 50.27      NS14
ATOM  47118  C   LEU N  47     211.821 136.640  22.233  1.00 58.47      NS14
ATOM  47119  O   LEU N  47     211.223 137.685  22.473  1.00 58.47      NS14
ATOM  47120  N   ALA N  48     212.765 136.552  21.306  1.00 63.39      NS14
ATOM  47121  CA  ALA N  48     213.132 137.720  20.518  1.00 63.39      NS14
ATOM  47122  CB  ALA N  48     214.193 137.356  19.498  1.00 46.85      NS14
ATOM  47123  C   ALA N  48     211.889 138.232  19.812  1.00 63.39      NS14
ATOM  47124  O   ALA N  48     211.688 139.440  19.677  1.00 63.39      NS14
ATOM  47125  N   HIS N  49     211.055 137.299  19.368  1.00 74.30      NS14
ATOM  47126  CA  HIS N  49     209.831 137.654  18.674  1.00 74.30      NS14
ATOM  47127  CB  HIS N  49     209.228 136.416  17.988  1.00 69.38      NS14
ATOM  47128  CG  HIS N  49     209.849 136.095  16.659  1.00 69.38      NS14
ATOM  47129  CD2 HIS N  49     210.474 134.980  16.211  1.00 69.38      NS14
ATOM  47130  ND1 HIS N  49     209.879 136.996  15.614  1.00 69.38      NS14
ATOM  47131  CE1 HIS N  49     210.498 136.451  14.582  1.00 69.38      NS14
ATOM  47132  NE2 HIS N  49     210.869 135.229  14.918  1.00 69.38      NS14
ATOM  47133  C   HIS N  49     208.823 138.294  19.628  1.00 74.30      NS14
ATOM  47134  O   HIS N  49     208.167 139.278  19.275  1.00 74.30      NS14
ATOM  47135  N   LYS N  50     208.703 137.748  20.835  1.00 78.44      NS14
ATOM  47136  CA  LYS N  50     207.774 138.302  21.813  1.00 78.44      NS14
ATOM  47137  CB  LYS N  50     207.847 137.536  23.128  1.00 55.14      NS14
ATOM  47138  CG  LYS N  50     207.247 136.154  23.088  1.00 55.14      NS14
ATOM  47139  CD  LYS N  50     207.445 135.448  24.416  1.00 55.14      NS14
ATOM  47140  CE  LYS N  50     206.719 134.113  24.466  1.00 55.14      NS14
ATOM  47141  NZ  LYS N  50     205.237 134.276  24.365  1.00 55.14      NS14
ATOM  47142  C   LYS N  50     208.097 139.761  22.086  1.00 78.44      NS14
ATOM  47143  O   LYS N  50     207.198 140.595  22.155  1.00 78.44      NS14
ATOM  47144  N   GLY N  51     209.386 140.057  22.243  1.00 68.69      NS14
ATOM  47145  CA  GLY N  51     209.825 141.416  22.520  1.00 68.69      NS14
ATOM  47146  C   GLY N  51     210.581 141.489  23.835  1.00 68.69      NS14
ATOM  47147  O   GLY N  51     211.101 142.535  24.222  1.00 68.69      NS14
ATOM  47148  N   GLN N  52     210.654 140.354  24.517  1.00 61.85      NS14
ATOM  47149  CA  GLN N  52     211.327 140.269  25.798  1.00 61.85      NS14
ATOM  47150  CB  GLN N  52     210.944 138.959  26.480  1.00 66.02      NS14
ATOM  47151  CG  GLN N  52     209.486 138.914  26.896  1.00 66.02      NS14
ATOM  47152  CD  GLN N  52     209.110 137.597  27.540  1.00 66.02      NS14
ATOM  47153  OE1 GLN N  52     209.952 136.924  28.139  1.00 66.02      NS14
ATOM  47154  NE2 GLN N  52     207.836 137.228  27.437  1.00 66.02      NS14
ATOM  47155  C   GLN N  52     212.847 140.428  25.770  1.00 61.85      NS14
ATOM  47156  O   GLN N  52     213.480 140.509  26.822  1.00 61.85      NS14
ATOM  47157  N   LEU N  53     213.447 140.453  24.587  1.00 46.79      NS14
ATOM  47158  CA  LEU N  53     214.890 140.648  24.523  1.00 46.79      NS14
ATOM  47159  CB  LEU N  53     215.535 139.834  23.402  1.00 42.72      NS14
ATOM  47160  CG  LEU N  53     215.669 138.320  23.571  1.00 42.72      NS14
ATOM  47161  CD1 LEU N  53     216.902 137.884  22.810  1.00 42.72      NS14
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ATOM  47162  CD2 LEU N  53     215.793 137.928  25.033  1.00 42.72      NS14
ATOM  47163  C   LEU N  53     215.102 142.126  24.264  1.00 46.79      NS14
ATOM  47164  O   LEU N  53     215.002 142.598  23.127  1.00 46.79      NS14
ATOM  47165  N   PRO N  54     215.395 142.881  25.328  1.00 53.93      NS14
ATOM  47166  CD  PRO N  54     215.735 142.406  26.683  1.00 57.50      NS14
ATOM  47167  CA  PRO N  54     215.611 144.325  25.193  1.00 53.93      NS14
ATOM  47168  CB  PRO N  54     216.099 144.739  26.583  1.00 57.50      NS14
ATOM  47169  CG  PRO N  54     216.681 143.463  27.161  1.00 57.50      NS14
ATOM  47170  C   PRO N  54     216.582 144.684  24.084  1.00 53.93      NS14
ATOM  47171  O   PRO N  54     217.636 144.078  23.947  1.00 53.93      NS14
ATOM  47172  N   GLY N  55     216.205 145.661  23.273  1.00 91.97      NS14
ATOM  47173  CA  GLY N  55     217.072 146.075  22.192  1.00 91.97      NS14
ATOM  47174  C   GLY N  55     217.265 145.060  21.080  1.00 91.97      NS14
ATOM  47175  O   GLY N  55     217.477 145.454  19.933  1.00 91.97      NS14
ATOM  47176  N   VAL N  56     217.215 143.766  21.396  1.00 57.55      NS14
ATOM  47177  CA  VAL N  56     217.382 142.740  20.362  1.00 57.55      NS14
ATOM  47178  CB  VAL N  56     217.366 141.324  20.957  1.00 86.16      NS14
ATOM  47179  CG1 VAL N  56     217.713 140.315  19.885  1.00 86.16      NS14
ATOM  47180  CG2 VAL N  56     218.356 141.230  22.099  1.00 86.16      NS14
ATOM  47181  C   VAL N  56     216.221 142.895  19.380  1.00 57.55      NS14
ATOM  47182  O   VAL N  56     215.059 142.810  19.765  1.00 57.55      NS14
ATOM  47183  N   ARG N  57     216.538 143.114  18.110  1.00 62.70      NS14
ATOM  47184  CA  ARG N  57     215.510 143.347  17.108  1.00 62.70      NS14
ATOM  47185  CB  ARG N  57     215.341 144.857  16.965  1.00 99.08      NS14
ATOM  47186  CG  ARG N  57     214.636 145.339  15.729  1.00 99.08      NS14
ATOM  47187  CD  ARG N  57     214.644 146.852  15.740  1.00 99.08      NS14
ATOM  47188  NE  ARG N  57     213.934 147.435  14.608  1.00 99.08      NS14
ATOM  47189  CZ  ARG N  57     213.737 148.741  14.448  1.00 99.08      NS14
ATOM  47190  NH1 ARG N  57     214.197 149.601  15.351  1.00 99.08      NS14
ATOM  47191  NH2 ARG N  57     213.083 149.193  13.385  1.00 99.08      NS14
ATOM  47192  C   ARG N  57     215.782 142.713  15.741  1.00 62.70      NS14
ATOM  47193  O   ARG N  57     216.932 142.521  15.346  1.00 62.70      NS14
ATOM  47194  N   LYS N  58     214.705 142.381  15.031  1.00 57.54      NS14
ATOM  47195  CA  LYS N  58     214.798 141.792  13.699  1.00 57.54      NS14
ATOM  47196  CB  LYS N  58     213.438 141.852  12.997  1.00 74.69      NS14
ATOM  47197  CG  LYS N  58     212.426 140.800  13.435  1.00 74.69      NS14
ATOM  47198  CD  LYS N  58     212.503 139.559  12.551  1.00 74.69      NS14
ATOM  47199  CE  LYS N  58     212.242 139.900  11.090  1.00 74.69      NS14
ATOM  47200  NZ  LYS N  58     212.460 138.711  10.231  1.00 74.69      NS14
ATOM  47201  C   LYS N  58     215.814 142.585  12.891  1.00 57.54      NS14
ATOM  47202  O   LYS N  58     215.595 143.759  12.577  1.00 57.54      NS14
ATOM  47203  N   ALA N  59     216.923 141.931  12.560  1.00 84.20      NS14
ATOM  47204  CA  ALA N  59     218.001 142.554  11.803  1.00 84.20      NS14
ATOM  47205  CB  ALA N  59     219.290 141.797  12.052  1.00 49.36      NS14
ATOM  47206  C   ALA N  59     217.717 142.639  10.303  1.00 84.20      NS14
ATOM  47207  O   ALA N  59     216.832 141.959   9.789  1.00 84.20      NS14
ATOM  47208  N   SER N  60     218.482 143.476   9.609  1.00 81.96      NS14
ATOM  47209  CA  SER N  60     218.317 143.674   8.173  1.00 81.96      NS14
ATOM  47210  CB  SER N  60     216.886 144.112   7.874  1.00 61.07      NS14
ATOM  47211  OG  SER N  60     216.785 144.693   6.585  1.00 61.07      NS14
ATOM  47212  C   SER N  60     219.279 144.745   7.668  1.00 81.96      NS14
ATOM  47213  O   SER N  60     219.618 145.669   8.414  1.00 81.96      NS14
ATOM  47214  N   TRP N  61     219.705 144.630   6.408  1.00 77.86      NS14
ATOM  47215  CA  TRP N  61     220.633 145.594   5.805  1.00 77.86      NS14
ATOM  47216  CB  TRP N  61     221.977 145.536   6.521  1.00 76.57      NS14
ATOM  47217  CG  TRP N  61     222.600 144.197   6.449  1.00 76.57      NS14
ATOM  47218  CD2 TRP N  61     222.454 143.132   7.394  1.00 76.57      NS14
ATOM  47219  CE2 TRP N  61     223.183 142.036   6.900  1.00 76.57      NS14
ATOM  47220  CE3 TRP N  61     221.779 142.998   8.610  1.00 76.57      NS14
ATOM  47221  CD1 TRP N  61     223.386 143.721   5.453  1.00 76.57      NS14
ATOM  47222  NE1 TRP N  61     223.742 142.423   5.712  1.00 76.57      NS14
ATOM  47223  CZ2 TRP N  61     223.257 140.817   7.578  1.00 76.57      NS14
ATOM  47224  CZ3 TRP N  61     221.853 141.785   9.284  1.00 76.57      NS14
ATOM  47225  CH2 TRP N  61     222.587 140.712   8.765  1.00 76.57      NS14
ATOM  47226  C   TRP N  61     220.852 145.364   4.311  1.00 77.86      NS14
ATOM  47227  O   TRP N  61     220.925 146.364   3.565  1.00 77.86      NS14
ATOM  47228  OXT TRP N  61     220.970 144.190   3.901  1.00 76.57      NS14
TER   47228       TRP N  61                                             NS14
ATOM  47229  CB  PRO O   2     154.140 109.877 -73.001  1.00 82.35      OS15
ATOM  47230  CG  PRO O   2     155.503 110.133 -73.620  1.00 82.35      OS15
ATOM  47231  C   PRO O   2     152.208 108.569 -73.915  1.00174.65      OS15
ATOM  47232  O   PRO O   2     151.685 107.760 -74.679  1.00174.65      OS15
ATOM  47233  N   PRO O   2     154.430 108.589 -75.015  1.00174.65      OS15
ATOM  47234  CD  PRO O   2     155.332 109.751 -75.093  1.00 82.35      OS15
ATOM  47235  CA  PRO O   2     153.719 108.602 -73.719  1.00174.65      OS15
ATOM  47236  N   ILE O   3     151.515 109.465 -73.220  1.00 58.17      OS15
ATOM  47237  CA  ILE O   3     150.067 109.550 -73.300  1.00 58.17      OS15
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ATOM  47238  CB  ILE O   3     149.441 109.346 -71.923  1.00 67.10      OS15
ATOM  47239  CG2 ILE O   3     147.949 109.539 -71.998  1.00 67.10      OS15
ATOM  47240  CG1 ILE O   3     149.758 107.940 -71.430  1.00 67.10      OS15
ATOM  47241  CD1 ILE O   3     149.174 107.624 -70.084  1.00 67.10      OS15
ATOM  47242  C   ILE O   3     149.632 110.901 -73.843  1.00 58.17      OS15
ATOM  47243  O   ILE O   3     149.612 111.899 -73.121  1.00 58.17      OS15
ATOM  47244  N   THR O   4     149.276 110.919 -75.122  1.00 75.27      OS15
ATOM  47245  CA  THR O   4     148.841 112.137 -75.798  1.00 75.27      OS15
ATOM  47246  CB  THR O   4     148.363 111.824 -77.223  1.00 70.89      OS15
ATOM  47247  OG1 THR O   4     148.227 110.406 -77.373  1.00 70.89      OS15
ATOM  47248  CG2 THR O   4     149.338 112.373 -78.258  1.00 70.89      OS15
ATOM  47249  C   THR O   4     147.693 112.833 -75.089  1.00 75.27      OS15
ATOM  47250  O   THR O   4     146.849 112.179 -74.483  1.00 75.27      OS15
ATOM  47251  N   LYS O   5     147.658 114.161 -75.166  1.00 87.18      OS15
ATOM  47252  CA  LYS O   5     146.556 114.893 -74.562  1.00 87.18      OS15
ATOM  47253  CB  LYS O   5     146.604 116.379 -74.935  1.00150.64      OS15
ATOM  47254  CG  LYS O   5     147.795 117.140 -74.370  1.00150.64      OS15
ATOM  47255  CD  LYS O   5     147.724 118.623 -74.723  1.00150.64      OS15
ATOM  47256  CE  LYS O   5     148.938 119.383 -74.205  1.00150.64      OS15
ATOM  47257  NZ  LYS O   5     148.881 120.838 -74.524  1.00150.64      OS15
ATOM  47258  C   LYS O   5     145.337 114.242 -75.197  1.00 87.18      OS15
ATOM  47259  O   LYS O   5     144.379 113.872 -74.513  1.00 87.18      OS15
ATOM  47260  N   GLU O   6     145.407 114.085 -76.519  1.00 67.52      OS15
ATOM  47261  CA  GLU O   6     144.341 113.454 -77.286  1.00 67.52      OS15
ATOM  47262  CB  GLU O   6     144.792 113.221 -78.727  1.00200.90      OS15
ATOM  47263  CG  GLU O   6     145.633 114.350 -79.298  1.00200.90      OS15
ATOM  47264  CD  GLU O   6     144.996 115.709 -79.100  1.00200.90      OS15
ATOM  47265  OE1 GLU O   6     143.877 115.925 -79.611  1.00200.90      OS15
ATOM  47266  OE2 GLU O   6     145.617 116.563 -78.431  1.00200.90      OS15
ATOM  47267  C   GLU O   6     144.056 112.117 -76.616  1.00 67.52      OS15
ATOM  47268  O   GLU O   6     142.964 111.894 -76.090  1.00 67.52      OS15
ATOM  47269  N   GLU O   7     145.057 111.240 -76.626  1.00 58.95      OS15
ATOM  47270  CA  GLU O   7     144.928 109.925 -76.007  1.00 58.95      OS15
ATOM  47271  CB  GLU O   7     146.310 109.332 -75.705  1.00198.96      OS15
ATOM  47272  CG  GLU O   7     146.709 108.146 -76.579  1.00198.96      OS15
ATOM  47273  CD  GLU O   7     145.907 106.889 -76.282  1.00198.96      OS15
ATOM  47274  OE1 GLU O   7     144.665 106.921 -76.419  1.00198.96      OS15
ATOM  47275  OE2 GLU O   7     146.521 105.864 -75.915  1.00198.96      OS15
ATOM  47276  C   GLU O   7     144.152 110.052 -74.710  1.00 58.95      OS15
ATOM  47277  O   GLU O   7     143.207 109.309 -74.456  1.00 58.95      OS15
ATOM  47278  N   LYS O   8     144.554 111.019 -73.900  1.00 55.74      OS15
ATOM  47279  CA  LYS O   8     143.919 111.247 -72.621  1.00 55.74      OS15
ATOM  47280  CB  LYS O   8     144.710 112.283 -71.835  1.00 62.87      OS15
ATOM  47281  CG  LYS O   8     144.181 112.502 -70.454  1.00 62.87      OS15
ATOM  47282  CD  LYS O   8     145.093 113.388 -69.657  1.00 62.87      OS15
ATOM  47283  CE  LYS O   8     144.554 113.534 -68.249  1.00 62.87      OS15
ATOM  47284  NZ  LYS O   8     145.490 114.251 -67.335  1.00 62.87      OS15
ATOM  47285  C   LYS O   8     142.474 111.705 -72.766  1.00 55.74      OS15
ATOM  47286  O   LYS O   8     141.535 110.963 -72.445  1.00 55.74      OS15
ATOM  47287  N   GLN O   9     142.301 112.932 -73.247  1.00 85.39      OS15
ATOM  47288  CA  GLN O   9     140.974 113.505 -73.418  1.00 85.39      OS15
ATOM  47289  CB  GLN O   9     141.077 114.847 -74.143  1.00201.26      OS15
ATOM  47290  CG  GLN O   9     141.809 115.901 -73.325  1.00201.26      OS15
ATOM  47291  CD  GLN O   9     141.979 117.211 -74.063  1.00201.26      OS15
ATOM  47292  OE1 GLN O   9     141.004 117.817 -74.509  1.00201.26      OS15
ATOM  47293  NE2 GLN O   9     143.224 117.660 -74.192  1.00201.26      OS15
ATOM  47294  C   GLN O   9     140.026 112.570 -74.152  1.00 85.39      OS15
ATOM  47295  O   GLN O   9     138.855 112.451 -73.788  1.00 85.39      OS15
ATOM  47296  N   LYS O  10     140.531 111.888 -75.173  1.00 51.12      OS15
ATOM  47297  CA  LYS O  10     139.695 110.969 -75.928  1.00 51.12      OS15
ATOM  47298  CB  LYS O  10     140.526 110.262 -77.007  1.00140.61      OS15
ATOM  47299  CG  LYS O  10     141.041 108.874 -76.646  1.00140.61      OS15
ATOM  47300  CD  LYS O  10     140.000 107.798 -76.938  1.00140.61      OS15
ATOM  47301  CE  LYS O  10     140.573 106.402 -76.736  1.00140.61      OS15
ATOM  47302  NZ  LYS O  10     139.585 105.343 -77.079  1.00140.61      OS15
ATOM  47303  C   LYS O  10     139.083 109.956 -74.962  1.00 51.12      OS15
ATOM  47304  O   LYS O  10     137.977 109.451 -75.176  1.00 51.12      OS15
ATOM  47305  N   VAL O  11     139.803 109.669 -73.886  1.00 51.03      OS15
ATOM  47306  CA  VAL O  11     139.309 108.720 -72.908  1.00 51.03      OS15
ATOM  47307  CB  VAL O  11     140.436 108.141 -72.054  1.00 56.71      OS15
ATOM  47308  CG1 VAL O  11     139.879 107.117 -71.100  1.00 56.71      OS15
ATOM  47309  CG2 VAL O  11     141.470 107.503 -72.937  1.00 56.71      OS15
ATOM  47310  C   VAL O  11     138.336 109.419 -71.996  1.00 51.03      OS15
ATOM  47311  O   VAL O  11     137.322 108.848 -71.610  1.00 51.03      OS15
ATOM  47312  N   ILE O  12     138.645 110.660 -71.647  1.00 48.26      OS15
ATOM  47313  CA  ILE O  12     137.761 111.405 -70.770  1.00 48.26      OS15
ATOM  47314  CB  ILE O  12     138.266 112.810 -70.521  1.00 30.92      OS15
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ATOM  47315  CG2 ILE O  12     137.325 113.522 -69.573  1.00 30.92      OS15
ATOM  47316  CG1 ILE O  12     139.675 112.751 -69.942  1.00 30.92      OS15
ATOM  47317  CD1 ILE O  12     140.249 114.118 -69.589  1.00 30.92      OS15
ATOM  47318  C   ILE O  12     136.384 111.514 -71.388  1.00 48.26      OS15
ATOM  47319  O   ILE O  12     135.370 111.245 -70.740  1.00 48.26      OS15
ATOM  47320  N   GLN O  13     136.347 111.920 -72.647  1.00 84.31      OS15
ATOM  47321  CA  GLN O  13     135.080 112.045 -73.333  1.00 84.31      OS15
ATOM  47322  CB  GLN O  13     135.310 112.461 -74.781  1.00190.53      OS15
ATOM  47323  CG  GLN O  13     136.097 113.746 -74.914  1.00190.53      OS15
ATOM  47324  CD  GLN O  13     136.430 114.073 -76.350  1.00190.53      OS15
ATOM  47325  OE1 GLN O  13     137.083 115.077 -76.633  1.00190.53      OS15
ATOM  47326  NE2 GLN O  13     135.983 113.224 -77.271  1.00190.53      OS15
ATOM  47327  C   GLN O  13     134.407 110.683 -73.280  1.00 84.31      OS15
ATOM  47328  O   GLN O  13     133.242 110.558 -72.896  1.00 84.31      OS15
ATOM  47329  N   GLU O  14     135.165 109.656 -73.640  1.00 53.49      OS15
ATOM  47330  CA  GLU O  14     134.647 108.296 -73.654  1.00 53.49      OS15
ATOM  47331  CB  GLU O  14     135.768 107.322 -74.037  1.00200.47      OS15
ATOM  47332  CG  GLU O  14     135.394 105.845 -73.941  1.00200.47      OS15
ATOM  47333  CD  GLU O  14     134.177 105.477 -74.776  1.00200.47      OS15
ATOM  47334  OE1 GLU O  14     133.752 104.303 -74.718  1.00200.47      OS15
ATOM  47335  OE2 GLU O  14     133.646 106.353 -75.491  1.00200.47      OS15
ATOM  47336  C   GLU O  14     133.980 107.829 -72.361  1.00 53.49      OS15
ATOM  47337  O   GLU O  14     133.276 106.824 -72.366  1.00 53.49      OS15
ATOM  47338  N   PHE O  15     134.174 108.547 -71.259  1.00 66.63      OS15
ATOM  47339  CA  PHE O  15     133.577 108.106 -70.003  1.00 66.63      OS15
ATOM  47340  CB  PHE O  15     134.667 107.621 -69.044  1.00 39.41      OS15
ATOM  47341  CG  PHE O  15     135.170 106.238 -69.350  1.00 39.41      OS15
ATOM  47342  CD1 PHE O  15     136.146 106.035 -70.323  1.00 39.41      OS15
ATOM  47343  CD2 PHE O  15     134.644 105.135 -68.686  1.00 39.41      OS15
ATOM  47344  CE1 PHE O  15     136.589 104.755 -70.629  1.00 39.41      OS15
ATOM  47345  CE2 PHE O  15     135.085 103.844 -68.989  1.00 39.41      OS15
ATOM  47346  CZ  PHE O  15     136.058 103.656 -69.963  1.00 39.41      OS15
ATOM  47347  C   PHE O  15     132.666 109.063 -69.252  1.00 66.63      OS15
ATOM  47348  O   PHE O  15     131.736 108.621 -68.575  1.00 66.63      OS15
ATOM  47349  N   ALA O  16     132.929 110.360 -69.360  1.00 55.33      OS15
ATOM  47350  CA  ALA O  16     132.129 111.374 -68.665  1.00 55.33      OS15
ATOM  47351  CB  ALA O  16     132.233 112.704 -69.407  1.00 59.88      OS15
ATOM  47352  C   ALA O  16     130.653 111.007 -68.448  1.00 55.33      OS15
ATOM  47353  O   ALA O  16     129.978 110.515 -69.350  1.00 55.33      OS15
ATOM  47354  N   ARG O  17     130.162 111.246 -67.236  1.00 79.11      OS15
ATOM  47355  CA  ARG O  17     128.774 110.957 -66.900  1.00 79.11      OS15
ATOM  47356  CB  ARG O  17     128.501 111.288 -65.432  1.00113.75      OS15
ATOM  47357  CG  ARG O  17     129.341 110.509 -64.438  1.00113.75      OS15
ATOM  47358  CD  ARG O  17     128.856 109.078 -64.296  1.00113.75      OS15
ATOM  47359  NE  ARG O  17     127.502 108.999 -63.749  1.00113.75      OS15
ATOM  47360  CZ  ARG O  17     127.129 109.507 -62.577  1.00113.75      OS15
ATOM  47361  NH1 ARG O  17     128.002 110.145 -61.806  1.00113.75      OS15
ATOM  47362  NH2 ARG O  17     125.874 109.367 -62.171  1.00113.75      OS15
ATOM  47363  C   ARG O  17     127.886 111.827 -67.770  1.00 79.11      OS15
ATOM  47364  O   ARG O  17     126.868 111.379 -68.287  1.00 79.11      OS15
ATOM  47365  N   PHE O  18     128.296 113.080 -67.927  1.00 59.54      OS15
ATOM  47366  CA  PHE O  18     127.557 114.058 -68.712  1.00 59.54      OS15
ATOM  47367  CB  PHE O  18     126.604 114.804 -67.792  1.00100.50      OS15
ATOM  47368  CG  PHE O  18     127.279 115.379 -66.589  1.00100.50      OS15
ATOM  47369  CD1 PHE O  18     128.012 116.557 -66.685  1.00100.50      OS15
ATOM  47370  CD2 PHE O  18     127.231 114.712 -65.370  1.00100.50      OS15
ATOM  47371  CE1 PHE O  18     128.690 117.064 -65.584  1.00100.50      OS15
ATOM  47372  CE2 PHE O  18     127.906 115.210 -64.261  1.00100.50      OS15
ATOM  47373  CZ  PHE O  18     128.638 116.389 -64.367  1.00100.50      OS15
ATOM  47374  C   PHE O  18     128.562 115.032 -69.314  1.00 59.54      OS15
ATOM  47375  O   PHE O  18     129.689 115.128 -68.839  1.00 59.54      OS15
ATOM  47376  N   PRO O  19     128.160 115.781 -70.351  1.00119.12      OS15
ATOM  47377  CD  PRO O  19     126.789 115.884 -70.878  1.00119.45      OS15
ATOM  47378  CA  PRO O  19     129.038 116.750 -71.013  1.00119.12      OS15
ATOM  47379  CB  PRO O  19     128.057 117.619 -71.788  1.00119.45      OS15
ATOM  47380  CG  PRO O  19     126.996 116.652 -72.160  1.00119.45      OS15
ATOM  47381  C   PRO O  19     129.881 117.573 -70.043  1.00119.12      OS15
ATOM  47382  O   PRO O  19     129.340 118.240 -69.159  1.00119.12      OS15
ATOM  47383  N   GLY O  20     131.202 117.517 -70.215  1.00 86.69      OS15
ATOM  47384  CA  GLY O  20     132.102 118.275 -69.359  1.00 86.69      OS15
ATOM  47385  C   GLY O  20     132.465 117.612 -68.042  1.00 86.69      OS15
ATOM  47386  O   GLY O  20     132.876 118.282 -67.092  1.00 86.69      OS15
ATOM  47387  N   ASP O  21     132.314 116.294 -67.978  1.00 60.79      OS15
ATOM  47388  CA  ASP O  21     132.640 115.556 -66.765  1.00 60.79      OS15
ATOM  47389  CB  ASP O  21     131.808 114.285 -66.659  1.00 82.96      OS15
ATOM  47390  CG  ASP O  21     132.300 113.368 -65.556  1.00 82.96      OS15
ATOM  47391  OD1 ASP O  21     132.016 112.152 -65.617  1.00 82.96      OS15
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ATOM  47392  OD2 ASP O  21     132.967 113.870 -64.623  1.00 82.96       OS15
ATOM  47393  C   ASP O  21     134.101 115.157 -66.741  1.00 60.79       OS15
ATOM  47394  O   ASP O  21     134.527 114.278 -67.489  1.00 60.79       OS15
ATOM  47395  N   THR O  22     134.867 115.790 -65.866  1.00 49.78       OS15
ATOM  47396  CA  THR O  22     136.278 115.469 -65.757  1.00 49.78       OS15
ATOM  47397  CB  THR O  22     137.125 116.748 -65.681  1.00 49.48       OS15
ATOM  47398  OG1 THR O  22     136.563 117.643 -64.716  1.00 49.48       OS15
ATOM  47399  CG2 THR O  22     137.161 117.433 -67.032  1.00 49.48       OS15
ATOM  47400  C   THR O  22     136.578 114.592 -64.540  1.00 49.78       OS15
ATOM  47401  O   THR O  22     137.223 113.547 -64.661  1.00 49.78       OS15
ATOM  47402  N   GLY O  23     136.073 114.997 -63.377  1.00 39.93       OS15
ATOM  47403  CA  GLY O  23     136.334 114.257 -62.154  1.00 39.93       OS15
ATOM  47404  C   GLY O  23     135.400 113.169 -61.662  1.00 39.93       OS15
ATOM  47405  O   GLY O  23     135.551 112.709 -60.533  1.00 39.93       OS15
ATOM  47406  N   SER O  24     134.440 112.739 -62.466  1.00 42.00       OS15
ATOM  47407  CA  SER O  24     133.558 111.681 -61.994  1.00 42.00       OS15
ATOM  47408  CB  SER O  24     132.483 111.361 -63.028  1.00151.40       OS15
ATOM  47409  OG  SER O  24     131.542 112.413 -63.107  1.00151.40       OS15
ATOM  47410  C   SER O  24     134.358 110.423 -61.695  1.00 42.00       OS15
ATOM  47411  O   SER O  24     135.433 110.199 -62.256  1.00 42.00       OS15
ATOM  47412  N   THR O  25     133.824 109.600 -60.807  1.00 51.19       OS15
ATOM  47413  CA  THR O  25     134.478 108.361 -60.432  1.00 51.19       OS15
ATOM  47414  CB  THR O  25     133.565 107.543 -59.536  1.00 37.25       OS15
ATOM  47415  OG1 THR O  25     133.038 108.393 -58.507  1.00 37.25       OS15
ATOM  47416  CG2 THR O  25     134.337 106.402 -58.909  1.00 37.25       OS15
ATOM  47417  C   THR O  25     134.902 107.510 -61.637  1.00 51.19       OS15
ATOM  47418  O   THR O  25     136.046 107.069 -61.708  1.00 51.19       OS15
ATOM  47419  N   GLU O  26     133.996 107.278 -62.583  1.00 49.25       OS15
ATOM  47420  CA  GLU O  26     134.337 106.477 -63.762  1.00 49.25       OS15
ATOM  47421  CB  GLU O  26     133.169 106.398 -64.749  1.00 79.91       OS15
ATOM  47422  CG  GLU O  26     131.968 105.611 -64.272  1.00 79.91       OS15
ATOM  47423  CD  GLU O  26     131.090 106.404 -63.333  1.00 79.91       OS15
ATOM  47424  OE1 GLU O  26     130.088 105.846 -62.838  1.00 79.91       OS15
ATOM  47425  OE2 GLU O  26     131.400 107.589 -63.097  1.00 79.91       OS15
ATOM  47426  C   GLU O  26     135.536 107.055 -64.495  1.00 49.25       OS15
ATOM  47427  O   GLU O  26     136.545 106.376 -64.681  1.00 49.25       OS15
ATOM  47428  N   VAL O  27     135.412 108.312 -64.915  1.00 39.76       OS15
ATOM  47429  CA  VAL O  27     136.480 108.983 -65.647  1.00 39.76       OS15
ATOM  47430  CB  VAL O  27     136.299 110.524 -65.643  1.00 34.43       OS15
ATOM  47431  CG1 VAL O  27     137.208 111.163 -66.678  1.00 34.43       OS15
ATOM  47432  CG2 VAL O  27     134.861 110.873 -65.938  1.00 34.43       OS15
ATOM  47433  C   VAL O  27     137.798 108.637 -64.981  1.00 39.76       OS15
ATOM  47434  O   VAL O  27     138.711 108.090 -65.613  1.00 39.76       OS15
ATOM  47435  N   GLN O  28     137.889 108.941 -63.693  1.00 25.02       OS15
ATOM  47436  CA  GLN O  28     139.104 108.638 -62.972  1.00 25.02       OS15
ATOM  47437  CB  GLN O  28     138.918 108.931 -61.494  1.00 29.93       OS15
ATOM  47438  CG  GLN O  28     138.982 110.409 -61.188  1.00 29.93       OS15
ATOM  47439  CD  GLN O  28     138.864 110.702 -59.709  1.00 29.93       OS15
ATOM  47440  OE1 GLN O  28     139.346 109.940 -58.864  1.00 29.93       OS15
ATOM  47441  NE2 GLN O  28     138.235 111.819 -59.385  1.00 29.93       OS15
ATOM  47442  C   GLN O  28     139.511 107.190 -63.200  1.00 25.02       OS15
ATOM  47443  O   GLN O  28     140.537 106.938 -63.818  1.00 25.02       OS15
ATOM  47444  N   VAL O  29     138.709 106.241 -62.735  1.00 17.02       OS15
ATOM  47445  CA  VAL O  29     139.052 104.842 -62.934  1.00 17.02       OS15
ATOM  47446  CB  VAL O  29     137.872 103.911 -62.619  1.00 26.76       OS15
ATOM  47447  CG1 VAL O  29     138.215 102.464 -62.988  1.00 26.76       OS15
ATOM  47448  CG2 VAL O  29     137.554 104.000 -61.145  1.00 26.76       OS15
ATOM  47449  C   VAL O  29     139.490 104.597 -64.370  1.00 17.02       OS15
ATOM  47450  O   VAL O  29     140.414 103.816 -64.626  1.00 17.02       OS15
ATOM  47451  N   ALA O  30     138.837 105.263 -65.313  1.00 48.37       OS15
ATOM  47452  CA  ALA O  30     139.196 105.088 -66.710  1.00 48.37       OS15
ATOM  47453  CB  ALA O  30     138.337 105.975 -67.583  1.00 87.90       OS15
ATOM  47454  C   ALA O  30     140.665 105.448 -66.875  1.00 48.37       OS15
ATOM  47455  O   ALA O  30     141.489 104.604 -67.224  1.00 48.37       OS15
ATOM  47456  N   LEU O  31     140.989 106.705 -66.595  1.00 59.17       OS15
ATOM  47457  CA  LEU O  31     142.357 107.200 -66.713  1.00 59.17       OS15
ATOM  47458  CB  LEU O  31     142.446 108.608 -66.110  1.00 55.21       OS15
ATOM  47459  CG  LEU O  31     141.617 109.689 -66.816  1.00 55.21       OS15
ATOM  47460  CD1 LEU O  31     141.645 110.996 -66.034  1.00 55.21       OS15
ATOM  47461  CD2 LEU O  31     142.174 109.901 -68.210  1.00 55.21       OS15
ATOM  47462  C   LEU O  31     143.402 106.288 -66.063  1.00 59.17       OS15
ATOM  47463  O   LEU O  31     144.412 105.953 -66.679  1.00 59.17       OS15
ATOM  47464  N   LEU O  32     143.156 105.884 -64.821  1.00 46.12       OS15
ATOM  47465  CA  LEU O  32     144.095 105.027 -64.110  1.00 46.12       OS15
ATOM  47466  CB  LEU O  32     143.562 104.660 -62.731  1.00 39.95       OS15
ATOM  47467  CG  LEU O  32     143.357 105.823 -61.766  1.00 39.95       OS15
ATOM  47468  CD1 LEU O  32     142.921 105.286 -60.426  1.00 39.95       OS15
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ATOM  47469  CD2 LEU O  32     144.643 106.606 -61.625  1.00 39.95       OS15
ATOM  47470  C   LEU O  32     144.373 103.763 -64.876  1.00 46.12       OS15
ATOM  47471  O   LEU O  32     145.524 103.399 -65.090  1.00 46.12       OS15
ATOM  47472  N   THR O  33     143.318 103.081 -65.288  1.00 48.72       OS15
ATOM  47473  CA  THR O  33     143.508 101.856 -66.032  1.00 48.72       OS15
ATOM  47474  CB  THR O  33     142.181 101.301 -66.520  1.00 83.71       OS15
ATOM  47475  OG1 THR O  33     141.165 101.599 -65.557  1.00 83.71       OS15
ATOM  47476  CG2 THR O  33     142.277  99.792 -66.685  1.00 83.71       OS15
ATOM  47477  C   THR O  33     144.393 102.168 -67.230  1.00 48.72       OS15
ATOM  47478  O   THR O  33     145.107 101.298 -67.727  1.00 48.72       OS15
ATOM  47479  N   LEU O  34     144.354 103.419 -67.665  1.00 31.91       OS15
ATOM  47480  CA  LEU O  34     145.166 103.834 -68.825  1.00 31.91       OS15
ATOM  47481  CB  LEU O  34     144.678 105.178 -69.372  1.00 55.98       OS15
ATOM  47482  CG  LEU O  34     145.104 105.625 -70.777  1.00 55.98       OS15
ATOM  47483  CD1 LEU O  34     144.648 107.055 -70.973  1.00 55.98       OS15
ATOM  47484  CD2 LEU O  34     146.603 105.547 -70.957  1.00 55.98       OS15
ATOM  47485  C   LEU O  34     146.619 103.957 -68.376  1.00 31.91       OS15
ATOM  47486  O   LEU O  34     147.499 103.282 -68.909  1.00 31.91       OS15
ATOM  47487  N   ARG O  35     146.867 104.820 -67.395  1.00 25.32       OS15
ATOM  47488  CA  ARG O  35     148.220 105.004 -66.893  1.00 25.32       OS15
ATOM  47489  CB  ARG O  35     148.259 106.076 -65.808  1.00 69.24       OS15
ATOM  47490  CG  ARG O  35     148.124 107.486 -66.324  1.00 69.24       OS15
ATOM  47491  CD  ARG O  35     148.482 108.459 -65.235  1.00 69.24       OS15
ATOM  47492  NE  ARG O  35     149.829 108.203 -64.736  1.00 69.24       OS15
ATOM  47493  CZ  ARG O  35     150.232 108.500 -63.505  1.00 69.24       OS15
ATOM  47494  NH1 ARG O  35     149.387 109.062 -62.658  1.00 69.24       OS15
ATOM  47495  NH2 ARG O  35     151.470 108.229 -63.113  1.00 69.24       OS15
ATOM  47496  C   ARG O  35     148.764 103.698 -66.334  1.00 25.32       OS15
ATOM  47497  O   ARG O  35     149.939 103.388 -66.487  1.00 25.32       OS15
ATOM  47498  N   ILE O  36     147.915 102.931 -65.672  1.00 44.69       OS15
ATOM  47499  CA  ILE O  36     148.383 101.679 -65.139  1.00 44.69       OS15
ATOM  47500  CB  ILE O  36     147.287 100.942 -64.352  1.00 32.22       OS15
ATOM  47501  CG2 ILE O  36     147.565  99.437 -64.329  1.00 32.22       OS15
ATOM  47502  CG1 ILE O  36     147.223 101.525 -62.939  1.00 32.22       OS15
ATOM  47503  CD1 ILE O  36     146.312 100.788 -61.989  1.00 32.22       OS15
ATOM  47504  C   ILE O  36     148.847 100.821 -66.293  1.00 44.69       OS15
ATOM  47505  O   ILE O  36     150.011 100.433 -66.349  1.00 44.69       OS15
ATOM  47506  N   ASN O  37     147.951 100.544 -67.232  1.00 32.52       OS15
ATOM  47507  CA  ASN O  37     148.304  99.710 -68.360  1.00 32.52       OS15
ATOM  47508  CB  ASN O  37     147.130  99.622 -69.303  1.00 69.45       OS15
ATOM  47509  CG  ASN O  37     146.055  98.744 -68.752  1.00 69.45       OS15
ATOM  47510  OD1 ASN O  37     144.962  98.663 -69.295  1.00 69.45       OS15
ATOM  47511  ND2 ASN O  37     146.363  98.063 -67.654  1.00 69.45       OS15
ATOM  47512  C   ASN O  37     149.564 100.130 -69.086  1.00 32.52       OS15
ATOM  47513  O   ASN O  37     150.364  99.277 -69.462  1.00 32.52       OS15
ATOM  47514  N   ARG O  38     149.762 101.427 -69.285  1.00 25.68       OS15
ATOM  47515  CA  ARG O  38     150.981 101.870 -69.945  1.00 25.68       OS15
ATOM  47516  CB  ARG O  38     151.021 103.391 -70.055  1.00 95.33       OS15
ATOM  47517  CG  ARG O  38     150.088 103.933 -71.101  1.00 95.33       OS15
ATOM  47518  CD  ARG O  38     150.271 103.180 -72.404  1.00 95.33       OS15
ATOM  47519  NE  ARG O  38     149.532 103.801 -73.494  1.00 95.33       OS15
ATOM  47520  CZ  ARG O  38     149.776 105.026 -73.944  1.00 95.33       OS15
ATOM  47521  NH1 ARG O  38     150.742 105.756 -73.396  1.00 95.33       OS15
ATOM  47522  NH2 ARG O  38     149.052 105.521 -74.940  1.00 95.33       OS15
ATOM  47523  C   ARG O  38     152.167 101.378 -69.127  1.00 25.68       OS15
ATOM  47524  O   ARG O  38     152.961 100.564 -69.596  1.00 25.68       OS15
ATOM  47525  N   LEU O  39     152.269 101.856 -67.890  1.00 23.78       OS15
ATOM  47526  CA  LEU O  39     153.361 101.466 -67.009  1.00 23.78       OS15
ATOM  47527  CB  LEU O  39     153.254 102.188 -65.668  1.00 48.22       OS15
ATOM  47528  CG  LEU O  39     154.173 101.660 -64.570  1.00 48.22       OS15
ATOM  47529  CD1 LEU O  39     154.418 102.739 -63.535  1.00 48.22       OS15
ATOM  47530  CD2 LEU O  39     153.544 100.422 -63.940  1.00 48.22       OS15
ATOM  47531  C   LEU O  39     153.374  99.973 -66.794  1.00 23.78       OS15
ATOM  47532  O   LEU O  39     154.436  99.372 -66.683  1.00 23.78       OS15
ATOM  47533  N   SER O  40     152.196  99.371 -66.721  1.00 39.22       OS15
ATOM  47534  CA  SER O  40     152.124  97.935 -66.545  1.00 39.22       OS15
ATOM  47535  CB  SER O  40     150.701  97.428 -66.781  1.00129.54       OS15
ATOM  47536  OG  SER O  40     149.807  97.941 -65.811  1.00129.54       OS15
ATOM  47537  C   SER O  40     153.057  97.346 -67.591  1.00 39.22       OS15
ATOM  47538  O   SER O  40     153.735  96.348 -67.344  1.00 39.22       OS15
ATOM  47539  N   GLU O  41     153.102  97.999 -68.751  1.00 51.68       OS15
ATOM  47540  CA  GLU O  41     153.934  97.567 -69.865  1.00 51.68       OS15
ATOM  47541  CB  GLU O  41     153.410  98.165 -71.170  1.00102.23       OS15
ATOM  47542  CG  GLU O  41     153.308  97.152 -72.276  1.00102.23       OS15
ATOM  47543  CD  GLU O  41     152.381  96.014 -71.906  1.00102.23       OS15
ATOM  47544  OE1 GLU O  41     152.413  94.966 -72.588  1.00102.23       OS15
ATOM  47545  OE2 GLU O  41     151.614  96.174 -70.932  1.00102.23       OS15
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ATOM  47546  C   GLU O  41     155.394  97.959 -69.681  1.00 51.68      OS15
ATOM  47547  O   GLU O  41     156.292  97.125 -69.799  1.00 51.68      OS15
ATOM  47548  N   HIS O  42     155.625  99.235 -69.400  1.00 57.67      OS15
ATOM  47549  CA  HIS O  42     156.973  99.743 -69.199  1.00 57.67      OS15
ATOM  47550  CB  HIS O  42     156.929 101.104 -68.525  1.00 53.70      OS15
ATOM  47551  CG  HIS O  42     158.261 101.564 -68.027  1.00 53.70      OS15
ATOM  47552  CD2 HIS O  42     158.660 101.985 -66.803  1.00 53.70      OS15
ATOM  47553  ND1 HIS O  42     159.373 101.628 -68.836  1.00 53.70      OS15
ATOM  47554  CE1 HIS O  42     160.401 102.071 -68.134  1.00 53.70      OS15
ATOM  47555  NE2 HIS O  42     159.995 102.295 -66.897  1.00 53.70      OS15
ATOM  47556  C   HIS O  42     157.819  98.814 -68.353  1.00 57.67      OS15
ATOM  47557  O   HIS O  42     159.023  98.711 -68.550  1.00 57.67      OS15
ATOM  47558  N   LEU O  43     157.191  98.137 -67.406  1.00 28.19      OS15
ATOM  47559  CA  LEU O  43     157.925  97.238 -66.537  1.00 28.19      OS15
ATOM  47560  CB  LEU O  43     157.289  97.222 -65.150  1.00 30.90      OS15
ATOM  47561  CG  LEU O  43     156.890  98.592 -64.613  1.00 30.90      OS15
ATOM  47562  CD1 LEU O  43     156.176  98.433 -63.294  1.00 30.90      OS15
ATOM  47563  CD2 LEU O  43     158.116  99.447 -64.458  1.00 30.90      OS15
ATOM  47564  C   LEU O  43     157.986  95.822 -67.088  1.00 28.19      OS15
ATOM  47565  O   LEU O  43     158.785  95.013 -66.619  1.00 28.19      OS15
ATOM  47566  N   LYS O  44     157.134  95.503 -68.059  1.00 51.84      OS15
ATOM  47567  CA  LYS O  44     157.153  94.165 -68.646  1.00 51.84      OS15
ATOM  47568  CB  LYS O  44     156.252  94.092 -69.882  1.00120.93      OS15
ATOM  47569  CG  LYS O  44     154.776  94.328 -69.625  1.00120.93      OS15
ATOM  47570  CD  LYS O  44     154.117  93.153 -68.922  1.00120.93      OS15
ATOM  47571  CE  LYS O  44     152.620  93.400 -68.745  1.00120.93      OS15
ATOM  47572  NZ  LYS O  44     151.897  92.250 -68.129  1.00120.93      OS15
ATOM  47573  C   LYS O  44     158.595  93.956 -69.071  1.00 51.84      OS15
ATOM  47574  O   LYS O  44     159.146  92.859 -68.972  1.00 51.84      OS15
ATOM  47575  N   VAL O  45     159.195  95.045 -69.535  1.00 53.88      OS15
ATOM  47576  CA  VAL O  45     160.570  95.049 -69.989  1.00 53.88      OS15
ATOM  47577  CB  VAL O  45     160.801  96.150 -70.975  1.00 37.68      OS15
ATOM  47578  CG1 VAL O  45     162.123  95.946 -71.655  1.00 37.68      OS15
ATOM  47579  CG2 VAL O  45     159.669  96.199 -71.944  1.00 37.68      OS15
ATOM  47580  C   VAL O  45     161.486  95.333 -68.825  1.00 53.88      OS15
ATOM  47581  O   VAL O  45     162.170  94.441 -68.316  1.00 53.88      OS15
ATOM  47582  N   HIS O  46     161.492  96.599 -68.420  1.00 42.71      OS15
ATOM  47583  CA  HIS O  46     162.309  97.073 -67.314  1.00 42.71      OS15
ATOM  47584  CB  HIS O  46     162.220  98.586 -67.267  1.00 56.56      OS15
ATOM  47585  CG  HIS O  46     162.518  99.217 -68.580  1.00 56.56      OS15
ATOM  47586  CD2 HIS O  46     163.300 100.268 -68.915  1.00 56.56      OS15
ATOM  47587  ND1 HIS O  46     161.995  98.736 -69.758  1.00 56.56      OS15
ATOM  47588  CE1 HIS O  46     162.443  99.464 -70.765  1.00 56.56      OS15
ATOM  47589  NE2 HIS O  46     163.237 100.401 -70.281  1.00 56.56      OS15
ATOM  47590  C   HIS O  46     161.922  96.468 -65.965  1.00 42.71      OS15
ATOM  47591  O   HIS O  46     161.303  97.125 -65.125  1.00 42.71      OS15
ATOM  47592  N   LYS O  47     162.306  95.211 -65.764  1.00 54.95      OS15
ATOM  47593  CA  LYS O  47     162.009  94.516 -64.531  1.00 54.95      OS15
ATOM  47594  CB  LYS O  47     162.167  93.013 -64.739  1.00102.39      OS15
ATOM  47595  CG  LYS O  47     161.356  92.485 -65.901  1.00102.39      OS15
ATOM  47596  CD  LYS O  47     161.581  90.994 -66.107  1.00102.39      OS15
ATOM  47597  CE  LYS O  47     160.822  90.478 -67.327  1.00102.39      OS15
ATOM  47598  NZ  LYS O  47     161.031  89.018 -67.545  1.00102.39      OS15
ATOM  47599  C   LYS O  47     162.913  94.991 -63.394  1.00 54.95      OS15
ATOM  47600  O   LYS O  47     162.764  94.555 -62.259  1.00 54.95      OS15
ATOM  47601  N   LYS O  48     163.852  95.878 -63.691  1.00 57.51      OS15
ATOM  47602  CA  LYS O  48     164.755  96.377 -62.664  1.00 57.51      OS15
ATOM  47603  CB  LYS O  48     166.139  96.645 -63.244  1.00116.80      OS15
ATOM  47604  CG  LYS O  48     167.063  95.458 -63.355  1.00116.80      OS15
ATOM  47605  CD  LYS O  48     168.409  95.945 -63.881  1.00116.80      OS15
ATOM  47606  CE  LYS O  48     169.418  94.830 -63.998  1.00116.80      OS15
ATOM  47607  NZ  LYS O  48     170.687  95.299 -64.614  1.00116.80      OS15
ATOM  47608  C   LYS O  48     164.236  97.684 -62.094  1.00 57.51      OS15
ATOM  47609  O   LYS O  48     164.360  97.962 -60.900  1.00 57.51      OS15
ATOM  47610  N   ASP O  49     163.668  98.493 -62.976  1.00 43.01      OS15
ATOM  47611  CA  ASP O  49     163.154  99.799 -62.616  1.00 43.01      OS15
ATOM  47612  CB  ASP O  49     162.579 100.453 -63.865  1.00 45.31      OS15
ATOM  47613  CG  ASP O  49     162.000 101.803 -63.591  1.00 45.31      OS15
ATOM  47614  OD1 ASP O  49     162.486 102.478 -62.659  1.00 45.31      OS15
ATOM  47615  OD2 ASP O  49     161.066 102.191 -64.321  1.00 45.31      OS15
ATOM  47616  C   ASP O  49     162.120  99.782 -61.497  1.00 43.01      OS15
ATOM  47617  O   ASP O  49     160.948 100.070 -61.722  1.00 43.01      OS15
ATOM  47618  N   HIS O  50     162.561  99.460 -60.286  1.00 47.93      OS15
ATOM  47619  CA  HIS O  50     161.662  99.417 -59.149  1.00 47.93      OS15
ATOM  47620  CB  HIS O  50     162.392  98.988 -57.906  1.00 43.65      OS15
ATOM  47621  CG  HIS O  50     163.148  97.717 -58.064  1.00 43.65      OS15
ATOM  47622  CD2 HIS O  50     164.414  97.386 -57.722  1.00 43.65      OS15
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ATOM  47623  ND1 HIS O  50     162.577  96.579 -58.583  1.00 43.65       OS15
ATOM  47624  CE1 HIS O  50     163.460  95.597 -58.551  1.00 43.65       OS15
ATOM  47625  NE2 HIS O  50     164.583  96.061 -58.032  1.00 43.65       OS15
ATOM  47626  C   HIS O  50     161.040 100.766 -58.869  1.00 47.93       OS15
ATOM  47627  O   HIS O  50     159.820 100.893 -58.847  1.00 47.93       OS15
ATOM  47628  N   HIS O  51     161.872 101.775 -58.633  1.00 38.91       OS15
ATOM  47629  CA  HIS O  51     161.354 103.101 -58.341  1.00 38.91       OS15
ATOM  47630  CB  HIS O  51     162.415 104.152 -58.637  1.00 29.33       OS15
ATOM  47631  CG  HIS O  51     163.544 104.140 -57.654  1.00 29.33       OS15
ATOM  47632  CD2 HIS O  51     163.974 105.076 -56.772  1.00 29.33       OS15
ATOM  47633  ND1 HIS O  51     164.346 103.037 -57.457  1.00 29.33       OS15
ATOM  47634  CE1 HIS O  51     165.218 103.292 -56.496  1.00 29.33       OS15
ATOM  47635  NE2 HIS O  51     165.014 104.523 -56.063  1.00 29.33       OS15
ATOM  47636  C   HIS O  51     160.060 103.410 -59.088  1.00 38.91       OS15
ATOM  47637  O   HIS O  51     159.113 103.942 -58.502  1.00 38.91       OS15
ATOM  47638  N   SER O  52     159.996 103.061 -60.370  1.00 25.92       OS15
ATOM  47639  CA  SER O  52     158.782 103.320 -61.131  1.00 25.92       OS15
ATOM  47640  CB  SER O  52     159.008 103.065 -62.617  1.00 37.56       OS15
ATOM  47641  OG  SER O  52     159.686 104.150 -63.224  1.00 37.56       OS15
ATOM  47642  C   SER O  52     157.645 102.448 -60.646  1.00 25.92       OS15
ATOM  47643  O   SER O  52     156.501 102.886 -60.582  1.00 25.92       OS15
ATOM  47644  N   HIS O  53     157.974 101.209 -60.303  1.00 26.22       OS15
ATOM  47645  CA  HIS O  53     156.999 100.229 -59.838  1.00 26.22       OS15
ATOM  47646  CB  HIS O  53     157.701  98.910 -59.536  1.00 54.18       OS15
ATOM  47647  CG  HIS O  53     156.807  97.868 -58.948  1.00 54.18       OS15
ATOM  47648  CD2 HIS O  53     156.199  96.796 -59.508  1.00 54.18       OS15
ATOM  47649  ND1 HIS O  53     156.473  97.844 -57.613  1.00 54.18       OS15
ATOM  47650  CE1 HIS O  53     155.702  96.798 -57.374  1.00 54.18       OS15
ATOM  47651  NE2 HIS O  53     155.520  96.145 -58.508  1.00 54.18       OS15
ATOM  47652  C   HIS O  53     156.198 100.675 -58.633  1.00 26.22       OS15
ATOM  47653  O   HIS O  53     155.034 100.303 -58.485  1.00 26.22       OS15
ATOM  47654  N   ARG O  54     156.812 101.463 -57.761  1.00 38.02       OS15
ATOM  47655  CA  ARG O  54     156.082 101.943 -56.600  1.00 38.02       OS15
ATOM  47656  CB  ARG O  54     156.981 102.742 -55.680  1.00 49.67       OS15
ATOM  47657  CG  ARG O  54     156.258 103.336 -54.521  1.00 49.67       OS15
ATOM  47658  CD  ARG O  54     157.141 104.345 -53.868  1.00 49.67       OS15
ATOM  47659  NE  ARG O  54     156.407 105.210 -52.961  1.00 49.67       OS15
ATOM  47660  CZ  ARG O  54     156.662 106.504 -52.825  1.00 49.67       OS15
ATOM  47661  NH1 ARG O  54     157.632 107.061 -53.542  1.00 49.67       OS15
ATOM  47662  NH2 ARG O  54     155.950 107.244 -51.985  1.00 49.67       OS15
ATOM  47663  C   ARG O  54     154.975 102.837 -57.123  1.00 38.02       OS15
ATOM  47664  O   ARG O  54     153.817 102.687 -56.749  1.00 38.02       OS15
ATOM  47665  N   GLY O  55     155.340 103.770 -57.997  1.00 45.63       OS15
ATOM  47666  CA  GLY O  55     154.348 104.652 -58.578  1.00 45.63       OS15
ATOM  47667  C   GLY O  55     153.189 103.780 -58.999  1.00 45.63       OS15
ATOM  47668  O   GLY O  55     152.030 104.125 -58.795  1.00 45.63       OS15
ATOM  47669  N   LEU O  56     153.513 102.628 -59.572  1.00  6.17       OS15
ATOM  47670  CA  LEU O  56     152.495 101.694 -60.005  1.00  6.17       OS15
ATOM  47671  CB  LEU O  56     153.131 100.499 -60.688  1.00  6.93       OS15
ATOM  47672  CG  LEU O  56     152.167  99.332 -60.892  1.00  6.93       OS15
ATOM  47673  CD1 LEU O  56     150.999  99.763 -61.724  1.00  6.93       OS15
ATOM  47674  CD2 LEU O  56     152.895  98.211 -61.568  1.00  6.93       OS15
ATOM  47675  C   LEU O  56     151.641 101.208 -58.835  1.00  6.17       OS15
ATOM  47676  O   LEU O  56     150.414 101.308 -58.871  1.00  6.17       OS15
ATOM  47677  N   LEU O  57     152.281 100.671 -57.799  1.00 52.31       OS15
ATOM  47678  CA  LEU O  57     151.542 100.195 -56.631  1.00 52.31       OS15
ATOM  47679  CB  LEU O  57     152.493  99.907 -55.474  1.00 37.54       OS15
ATOM  47680  CG  LEU O  57     153.283  98.613 -55.598  1.00 37.54       OS15
ATOM  47681  CD1 LEU O  57     154.179  98.442 -54.403  1.00 37.54       OS15
ATOM  47682  CD2 LEU O  57     152.319  97.450 -55.695  1.00 37.54       OS15
ATOM  47683  C   LEU O  57     150.528 101.228 -56.178  1.00 52.31       OS15
ATOM  47684  O   LEU O  57     149.391 100.903 -55.849  1.00 52.31       OS15
ATOM  47685  N   MET O  58     150.958 102.480 -56.169  1.00 44.47       OS15
ATOM  47686  CA  MET O  58     150.108 103.575 -55.754  1.00 44.47       OS15
ATOM  47687  CB  MET O  58     150.905 104.874 -55.760  1.00 43.30       OS15
ATOM  47688  CG  MET O  58     152.257 104.753 -55.109  1.00 43.30       OS15
ATOM  47689  SD  MET O  58     152.731 106.257 -54.242  1.00 43.30       OS15
ATOM  47690  CE  MET O  58     153.381 107.235 -55.543  1.00 43.30       OS15
ATOM  47691  C   MET O  58     148.887 103.718 -56.653  1.00 44.47       OS15
ATOM  47692  O   MET O  58     147.772 103.938 -56.171  1.00 44.47       OS15
ATOM  47693  N   MET O  59     149.095 103.604 -57.959  1.00 28.09       OS15
ATOM  47694  CA  MET O  59     147.986 103.726 -58.889  1.00 28.09       OS15
ATOM  47695  CB  MET O  59     148.492 103.648 -60.316  1.00 44.50       OS15
ATOM  47696  CG  MET O  59     149.498 104.717 -60.625  1.00 44.50       OS15
ATOM  47697  SD  MET O  59     149.956 104.684 -62.350  1.00 44.50       OS15
ATOM  47698  CE  MET O  59     151.126 103.345 -62.380  1.00 44.50       OS15
ATOM  47699  C   MET O  59     146.972 102.625 -58.631  1.00 28.09       OS15
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ATOM  47700  O   MET O  59     145.774 102.884 -58.496  1.00 28.09       OS15
ATOM  47701  N   VAL O  60     147.456 101.394 -58.552  1.00 24.15       OS15
ATOM  47702  CA  VAL O  60     146.575 100.274 -58.290  1.00 24.15       OS15
ATOM  47703  CB  VAL O  60     147.353  98.989 -58.075  1.00 30.25       OS15
ATOM  47704  CG1 VAL O  60     146.423  97.900 -57.587  1.00 30.25       OS15
ATOM  47705  CG2 VAL O  60     148.008  98.576 -59.371  1.00 30.25       OS15
ATOM  47706  C   VAL O  60     145.788 100.570 -57.035  1.00 24.15       OS15
ATOM  47707  O   VAL O  60     144.618 100.205 -56.910  1.00 24.15       OS15
ATOM  47708  N   GLY O  61     146.435 101.240 -56.098  1.00 39.44       OS15
ATOM  47709  CA  GLY O  61     145.747 101.565 -54.872  1.00 39.44       OS15
ATOM  47710  C   GLY O  61     144.590 102.484 -55.181  1.00 39.44       OS15
ATOM  47711  O   GLY O  61     143.427 102.059 -55.194  1.00 39.44       OS15
ATOM  47712  N   GLN O  62     144.920 103.744 -55.455  1.00 40.50       OS15
ATOM  47713  CA  GLN O  62     143.916 104.757 -55.743  1.00 40.50       OS15
ATOM  47714  CB  GLN O  62     144.560 105.953 -56.458  1.00 64.15       OS15
ATOM  47715  CG  GLN O  62     143.711 107.228 -56.465  1.00 64.15       OS15
ATOM  47716  CD  GLN O  62     143.318 107.683 -55.064  1.00 64.15       OS15
ATOM  47717  OE1 GLN O  62     144.154 107.730 -54.161  1.00 64.15       OS15
ATOM  47718  NE2 GLN O  62     142.043 108.028 -54.881  1.00 64.15       OS15
ATOM  47719  C   GLN O  62     142.769 104.194 -56.576  1.00 40.50       OS15
ATOM  47720  O   GLN O  62     141.614 104.581 -56.402  1.00 40.50       OS15
ATOM  47721  N   ARG O  63     143.072 103.264 -57.470  1.00 21.59       OS15
ATOM  47722  CA  ARG O  63     142.005 102.723 -58.280  1.00 21.59       OS15
ATOM  47723  CB  ARG O  63     142.552 101.914 -59.457  1.00 43.04       OS15
ATOM  47724  CG  ARG O  63     141.538 101.814 -60.595  1.00 43.04       OS15
ATOM  47725  CD  ARG O  63     142.110 101.171 -61.834  1.00 43.04       OS15
ATOM  47726  NE  ARG O  63     142.513  99.800 -61.579  1.00 43.04       OS15
ATOM  47727  CZ  ARG O  63     142.952  98.977 -62.518  1.00 43.04       OS15
ATOM  47728  NH1 ARG O  63     143.038  99.395 -63.773  1.00 43.04       OS15
ATOM  47729  NH2 ARG O  63     143.313  97.745 -62.199  1.00 43.04       OS15
ATOM  47730  C   ARG O  63     141.075 101.870 -57.443  1.00 21.59       OS15
ATOM  47731  O   ARG O  63     139.887 102.167 -57.337  1.00 21.59       OS15
ATOM  47732  N   ARG O  64     141.604 100.811 -56.844  1.00 35.00       OS15
ATOM  47733  CA  ARG O  64     140.763  99.951 -56.025  1.00 35.00       OS15
ATOM  47734  CB  ARG O  64     141.597  98.953 -55.226  1.00129.51       OS15
ATOM  47735  CG  ARG O  64     142.204  97.828 -56.035  1.00129.51       OS15
ATOM  47736  CD  ARG O  64     142.111  96.523 -55.259  1.00129.51       OS15
ATOM  47737  NE  ARG O  64     142.260  96.727 -53.819  1.00129.51       OS15
ATOM  47738  CZ  ARG O  64     143.345  97.226 -53.235  1.00129.51       OS15
ATOM  47739  NH1 ARG O  64     144.396  97.576 -53.963  1.00129.51       OS15
ATOM  47740  NH2 ARG O  64     143.380  97.380 -51.919  1.00129.51       OS15
ATOM  47741  C   ARG O  64     139.953 100.790 -55.056  1.00 35.00       OS15
ATOM  47742  O   ARG O  64     138.787 100.506 -54.795  1.00 35.00       OS15
ATOM  47743  N   ARG O  65     140.574 101.835 -54.526  1.00 21.99       OS15
ATOM  47744  CA  ARG O  65     139.887 102.678 -53.575  1.00 21.99       OS15
ATOM  47745  CB  ARG O  65     140.867 103.688 -52.990  1.00 97.11       OS15
ATOM  47746  CG  ARG O  65     140.551 104.060 -51.561  1.00 97.11       OS15
ATOM  47747  CD  ARG O  65     141.799 104.062 -50.690  1.00 97.11       OS15
ATOM  47748  NE  ARG O  65     142.848 104.935 -51.211  1.00 97.11       OS15
ATOM  47749  CZ  ARG O  65     143.774 104.550 -52.082  1.00 97.11       OS15
ATOM  47750  NH1 ARG O  65     143.781 103.299 -52.526  1.00 97.11       OS15
ATOM  47751  NH2 ARG O  65     144.688 105.413 -52.511  1.00 97.11       OS15
ATOM  47752  C   ARG O  65     138.674 103.371 -54.217  1.00 21.99       OS15
ATOM  47753  O   ARG O  65     137.571 103.345 -53.677  1.00 21.99       OS15
ATOM  47754  N   LEU O  66     138.863 103.991 -55.374  1.00 32.81       OS15
ATOM  47755  CA  LEU O  66     137.746 104.645 -56.039  1.00 32.81       OS15
ATOM  47756  CB  LEU O  66     138.181 105.203 -57.396  1.00 27.18       OS15
ATOM  47757  CG  LEU O  66     139.050 106.453 -57.379  1.00 27.18       OS15
ATOM  47758  CD1 LEU O  66     139.364 106.843 -58.797  1.00 27.18       OS15
ATOM  47759  CD2 LEU O  66     138.324 107.578 -56.685  1.00 27.18       OS15
ATOM  47760  C   LEU O  66     136.655 103.610 -56.247  1.00 32.81       OS15
ATOM  47761  O   LEU O  66     135.545 103.751 -55.747  1.00 32.81       OS15
ATOM  47762  N   LEU O  67     136.989 102.569 -56.996  1.00 29.35       OS15
ATOM  47763  CA  LEU O  67     136.048 101.508 -57.267  1.00 29.35       OS15
ATOM  47764  CB  LEU O  67     136.767 100.322 -57.881  1.00 36.27       OS15
ATOM  47765  CG  LEU O  67     137.081 100.475 -59.357  1.00 36.27       OS15
ATOM  47766  CD1 LEU O  67     137.852  99.266 -59.834  1.00 36.27       OS15
ATOM  47767  CD2 LEU O  67     135.790 100.609 -60.126  1.00 36.27       OS15
ATOM  47768  C   LEU O  67     135.298 101.055 -56.023  1.00 29.35       OS15
ATOM  47769  O   LEU O  67     134.069 101.032 -56.023  1.00 29.35       OS15
ATOM  47770  N   ARG O  68     136.022 100.690 -54.966  1.00 27.30       OS15
ATOM  47771  CA  ARG O  68     135.368 100.240 -53.740  1.00 27.30       OS15
ATOM  47772  CB  ARG O  68     136.357 100.191 -52.580  1.00124.04       OS15
ATOM  47773  CG  ARG O  68     135.939  99.241 -51.475  1.00124.04       OS15
ATOM  47774  CD  ARG O  68     136.725  99.501 -50.205  1.00124.04       OS15
ATOM  47775  NE  ARG O  68     138.163  99.559 -50.448  1.00124.04       OS15
ATOM  47776  CZ  ARG O  68     139.055  99.970 -49.552  1.00124.04       OS15
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ATOM  47777  NH1 ARG O  68     138.659 100.360 -48.347  1.00124.04      OS15
ATOM  47778  NH2 ARG O  68     140.344 100.007 -49.862  1.00124.04      OS15
ATOM  47779  C   ARG O  68     134.235 101.210 -53.416  1.00 27.30      OS15
ATOM  47780  O   ARG O  68     133.120 100.808 -53.115  1.00 27.30      OS15
ATOM  47781  N   TYR O  69     134.524 102.499 -53.504  1.00 23.07      OS15
ATOM  47782  CA  TYR O  69     133.527 103.529 -53.238  1.00 23.07      OS15
ATOM  47783  CB  TYR O  69     134.122 104.917 -53.439  1.00 34.11      OS15
ATOM  47784  CG  TYR O  69     133.096 106.015 -53.445  1.00 34.11      OS15
ATOM  47785  CD1 TYR O  69     132.485 106.414 -52.276  1.00 34.11      OS15
ATOM  47786  CE1 TYR O  69     131.565 107.452 -52.259  1.00 34.11      OS15
ATOM  47787  CD2 TYR O  69     132.764 106.669 -54.613  1.00 34.11      OS15
ATOM  47788  CE2 TYR O  69     131.844 107.707 -54.616  1.00 34.11      OS15
ATOM  47789  CZ  TYR O  69     131.243 108.103 -53.430  1.00 34.11      OS15
ATOM  47790  OH  TYR O  69     130.332 109.154 -53.405  1.00 34.11      OS15
ATOM  47791  C   TYR O  69     132.370 103.388 -54.186  1.00 23.07      OS15
ATOM  47792  O   TYR O  69     131.226 103.506 -53.794  1.00 23.07      OS15
ATOM  47793  N   LEU O  70     132.687 103.174 -55.453  1.00 20.88      OS15
ATOM  47794  CA  LEU O  70     131.670 103.033 -56.480  1.00 20.88      OS15
ATOM  47795  CB  LEU O  70     132.349 102.792 -57.830  1.00 38.76      OS15
ATOM  47796  CG  LEU O  70     131.588 103.176 -59.092  1.00 38.76      OS15
ATOM  47797  CD1 LEU O  70     130.368 102.340 -59.199  1.00 38.76      OS15
ATOM  47798  CD2 LEU O  70     131.201 104.634 -59.035  1.00 38.76      OS15
ATOM  47799  C   LEU O  70     130.816 101.843 -56.077  1.00 20.88      OS15
ATOM  47800  O   LEU O  70     129.631 101.982 -55.772  1.00 20.88      OS15
ATOM  47801  N   GLN O  71     131.445 100.675 -56.070  1.00 38.97      OS15
ATOM  47802  CA  GLN O  71     130.801  99.429 -55.684  1.00 38.97      OS15
ATOM  47803  CB  GLN O  71     131.860  98.472 -55.123  1.00 83.32      OS15
ATOM  47804  CG  GLN O  71     131.648  97.009 -55.431  1.00 83.32      OS15
ATOM  47805  CD  GLN O  71     130.245  96.565 -55.137  1.00 83.32      OS15
ATOM  47806  OE1 GLN O  71     129.693  96.886 -54.084  1.00 83.32      OS15
ATOM  47807  NE2 GLN O  71     129.650  95.815 -56.063  1.00 83.32      OS15
ATOM  47808  C   GLN O  71     129.775  99.758 -54.600  1.00 38.97      OS15
ATOM  47809  O   GLN O  71     128.610  99.395 -54.699  1.00 38.97      OS15
ATOM  47810  N   ARG O  72     130.226 100.479 -53.579  1.00 50.36      OS15
ATOM  47811  CA  ARG O  72     129.390 100.869 -52.451  1.00 50.36      OS15
ATOM  47812  CB  ARG O  72     130.268 101.500 -51.370  1.00 76.55      OS15
ATOM  47813  CG  ARG O  72     129.529 102.009 -50.156  1.00 76.55      OS15
ATOM  47814  CD  ARG O  72     130.429 101.926 -48.936  1.00 76.55      OS15
ATOM  47815  NE  ARG O  72     131.738 102.531 -49.167  1.00 76.55      OS15
ATOM  47816  CZ  ARG O  72     131.973 103.841 -49.165  1.00 76.55      OS15
ATOM  47817  NH1 ARG O  72     130.982 104.701 -48.939  1.00 76.55      OS15
ATOM  47818  NH2 ARG O  72     133.203 104.292 -49.391  1.00 76.55      OS15
ATOM  47819  C   ARG O  72     128.241 101.804 -52.815  1.00 50.36      OS15
ATOM  47820  O   ARG O  72     127.082 101.464 -52.611  1.00 50.36      OS15
ATOM  47821  N   GLU O  73     128.544 102.977 -53.351  1.00 75.18      OS15
ATOM  47822  CA  GLU O  73     127.480 103.899 -53.709  1.00 75.18      OS15
ATOM  47823  CB  GLU O  73     128.055 105.193 -54.264  1.00117.65      OS15
ATOM  47824  CG  GLU O  73     128.709 105.995 -53.181  1.00117.65      OS15
ATOM  47825  CD  GLU O  73     127.989 105.824 -51.858  1.00117.65      OS15
ATOM  47826  OE1 GLU O  73     126.781 106.129 -51.797  1.00117.65      OS15
ATOM  47827  OE2 GLU O  73     128.626 105.372 -50.883  1.00117.65      OS15
ATOM  47828  C   GLU O  73     126.506 103.289 -54.691  1.00 75.18      OS15
ATOM  47829  O   GLU O  73     125.504 102.706 -54.279  1.00 75.18      OS15
ATOM  47830  N   ASP O  74     126.784 103.417 -55.984  1.00 61.49      OS15
ATOM  47831  CA  ASP O  74     125.897 102.851 -56.992  1.00 61.49      OS15
ATOM  47832  CB  ASP O  74     125.717 103.839 -58.148  1.00136.11      OS15
ATOM  47833  CG  ASP O  74     124.739 103.342 -59.193  1.00136.11      OS15
ATOM  47834  OD1 ASP O  74     125.049 102.342 -59.868  1.00136.11      OS15
ATOM  47835  OD2 ASP O  74     123.658 103.949 -59.336  1.00136.11      OS15
ATOM  47836  C   ASP O  74     126.462 101.529 -57.507  1.00 61.49      OS15
ATOM  47837  O   ASP O  74     127.260 101.509 -58.439  1.00 61.49      OS15
ATOM  47838  N   PRO O  75     126.047 100.401 -56.909  1.00 38.91      OS15
ATOM  47839  CD  PRO O  75     124.893 100.252 -56.005  1.00 76.82      OS15
ATOM  47840  CA  PRO O  75     126.544  99.087 -57.341  1.00 38.91      OS15
ATOM  47841  CB  PRO O  75     125.748  98.117 -56.478  1.00 76.82      OS15
ATOM  47842  CG  PRO O  75     124.441  98.844 -56.299  1.00 76.82      OS15
ATOM  47843  C   PRO O  75     126.341  98.834 -58.834  1.00 38.91      OS15
ATOM  47844  O   PRO O  75     126.968  97.951 -59.413  1.00 38.91      OS15
ATOM  47845  N   GLU O  76     125.462  99.618 -59.452  1.00 80.46      OS15
ATOM  47846  CA  GLU O  76     125.180  99.476 -60.874  1.00 80.46      OS15
ATOM  47847  CB  GLU O  76     123.894 100.218 -61.236  1.00201.26      OS15
ATOM  47848  CG  GLU O  76     123.492 100.043 -62.682  1.00201.26      OS15
ATOM  47849  CD  GLU O  76     123.441  98.584 -63.081  1.00201.26      OS15
ATOM  47850  OE1 GLU O  76     122.670  97.822 -62.460  1.00201.26      OS15
ATOM  47851  OE2 GLU O  76     124.177  98.197 -64.014  1.00201.26      OS15
ATOM  47852  C   GLU O  76     126.335 100.000 -61.720  1.00 80.46      OS15
ATOM  47853  O   GLU O  76     127.043  99.217 -62.358  1.00 80.46      OS15
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ATOM  47854  N   ARG O  77     126.522 101.320 -61.721  1.00 46.31      OS15
ATOM  47855  CA  ARG O  77     127.600 101.940 -62.491  1.00 46.31      OS15
ATOM  47856  CB  ARG O  77     127.927 103.338 -61.960  1.00 65.77      OS15
ATOM  47857  CG  ARG O  77     126.975 104.413 -62.410  1.00 65.77      OS15
ATOM  47858  CD  ARG O  77     127.540 105.778 -62.116  1.00 65.77      OS15
ATOM  47859  NE  ARG O  77     127.375 106.175 -60.724  1.00 65.77      OS15
ATOM  47860  CZ  ARG O  77     128.097 107.123 -60.131  1.00 65.77      OS15
ATOM  47861  NH1 ARG O  77     129.041 107.760 -60.811  1.00 65.77      OS15
ATOM  47862  NH2 ARG O  77     127.863 107.457 -58.865  1.00 65.77      OS15
ATOM  47863  C   ARG O  77     128.843 101.086 -62.399  1.00 46.31      OS15
ATOM  47864  O   ARG O  77     129.537 100.854 -63.386  1.00 46.31      OS15
ATOM  47865  N   TYR O  78     129.107 100.618 -61.187  1.00 45.32      OS15
ATOM  47866  CA  TYR O  78     130.263  99.790 -60.903  1.00 45.32      OS15
ATOM  47867  CB  TYR O  78     130.175  99.283 -59.474  1.00 42.91      OS15
ATOM  47868  CG  TYR O  78     131.265  98.322 -59.136  1.00 42.91      OS15
ATOM  47869  CD1 TYR O  78     132.544  98.765 -58.829  1.00 42.91      OS15
ATOM  47870  CE1 TYR O  78     133.558  97.866 -58.525  1.00 42.91      OS15
ATOM  47871  CD2 TYR O  78     131.019  96.957 -59.133  1.00 42.91      OS15
ATOM  47872  CE2 TYR O  78     132.012  96.052 -58.833  1.00 42.91      OS15
ATOM  47873  CZ  TYR O  78     133.280  96.505 -58.529  1.00 42.91      OS15
ATOM  47874  OH  TYR O  78     134.255  95.576 -58.233  1.00 42.91      OS15
ATOM  47875  C   TYR O  78     130.344  98.616 -61.859  1.00 45.32      OS15
ATOM  47876  O   TYR O  78     131.245  98.541 -62.697  1.00 45.32      OS15
ATOM  47877  N   ARG O  79     129.390  97.699 -61.724  1.00 57.41      OS15
ATOM  47878  CA  ARG O  79     129.349  96.521 -62.571  1.00 57.41      OS15
ATOM  47879  CB  ARG O  79     128.016  95.783 -62.410  1.00195.12      OS15
ATOM  47880  CG  ARG O  79     127.875  95.068 -61.070  1.00195.12      OS15
ATOM  47881  CD  ARG O  79     126.641  94.176 -61.018  1.00195.12      OS15
ATOM  47882  NE  ARG O  79     125.395  94.937 -61.023  1.00195.12      OS15
ATOM  47883  CZ  ARG O  79     124.183  94.388 -61.015  1.00195.12      OS15
ATOM  47884  NH1 ARG O  79     124.050  93.068 -61.003  1.00195.12      OS15
ATOM  47885  NH2 ARG O  79     123.105  95.159 -61.017  1.00195.12      OS15
ATOM  47886  C   ARG O  79     129.544  96.963 -63.999  1.00 57.41      OS15
ATOM  47887  O   ARG O  79     130.116  96.238 -64.804  1.00 57.41      OS15
ATOM  47888  N   ALA O  80     129.090  98.174 -64.301  1.00 45.14      OS15
ATOM  47889  CA  ALA O  80     129.222  98.717 -65.646  1.00 45.14      OS15
ATOM  47890  CB  ALA O  80     128.403  99.989 -65.786  1.00 63.59      OS15
ATOM  47891  C   ALA O  80     130.675  99.008 -65.960  1.00 45.14      OS15
ATOM  47892  O   ALA O  80     131.265  98.384 -66.836  1.00 45.14      OS15
ATOM  47893  N   LEU O  81     131.250  99.956 -65.228  1.00 55.85      OS15
ATOM  47894  CA  LEU O  81     132.636 100.356 -65.433  1.00 55.85      OS15
ATOM  47895  CB  LEU O  81     133.119 101.220 -64.266  1.00 43.24      OS15
ATOM  47896  CG  LEU O  81     133.847 102.500 -64.677  1.00 43.24      OS15
ATOM  47897  CD1 LEU O  81     134.676 103.032 -63.513  1.00 43.24      OS15
ATOM  47898  CD2 LEU O  81     134.731 102.204 -65.875  1.00 43.24      OS15
ATOM  47899  C   LEU O  81     133.591  99.183 -65.612  1.00 55.85      OS15
ATOM  47900  O   LEU O  81     134.413  99.186 -66.528  1.00 55.85      OS15
ATOM  47901  N   ILE O  82     133.492  98.188 -64.737  1.00 80.84      OS15
ATOM  47902  CA  ILE O  82     134.371  97.032 -64.829  1.00 80.84      OS15
ATOM  47903  CB  ILE O  82     133.980  95.926 -63.851  1.00 87.56      OS15
ATOM  47904  CG2 ILE O  82     134.843  94.696 -64.098  1.00 87.56      OS15
ATOM  47905  CG1 ILE O  82     134.154  96.413 -62.415  1.00 87.56      OS15
ATOM  47906  CD1 ILE O  82     133.852  95.347 -61.399  1.00 87.56      OS15
ATOM  47907  C   ILE O  82     134.302  96.457 -66.224  1.00 80.84      OS15
ATOM  47908  O   ILE O  82     135.213  96.646 -67.024  1.00 80.84      OS15
ATOM  47909  N   GLU O  83     133.218  95.745 -66.505  1.00 92.08      OS15
ATOM  47910  CA  GLU O  83     133.024  95.148 -67.815  1.00 92.08      OS15
ATOM  47911  CB  GLU O  83     131.538  94.829 -68.019  1.00201.26      OS15
ATOM  47912  CG  GLU O  83     131.161  94.240 -69.378  1.00201.26      OS15
ATOM  47913  CD  GLU O  83     130.981  95.291 -70.466  1.00201.26      OS15
ATOM  47914  OE1 GLU O  83     131.992  95.829 -70.965  1.00201.26      OS15
ATOM  47915  OE2 GLU O  83     129.819  95.583 -70.822  1.00201.26      OS15
ATOM  47916  C   GLU O  83     133.510  96.127 -68.880  1.00 92.08      OS15
ATOM  47917  O   GLU O  83     134.379  95.797 -69.692  1.00 92.08      OS15
ATOM  47918  N   LYS O  84     132.959  97.339 -68.848  1.00 94.89      OS15
ATOM  47919  CA  LYS O  84     133.300  98.388 -69.804  1.00 94.89      OS15
ATOM  47920  CB  LYS O  84     132.652  99.705 -69.388  1.00 87.05      OS15
ATOM  47921  CG  LYS O  84     132.754 100.799 -70.431  1.00 87.05      OS15
ATOM  47922  CD  LYS O  84     132.083 102.073 -69.943  1.00 87.05      OS15
ATOM  47923  CE  LYS O  84     132.143 103.184 -70.981  1.00 87.05      OS15
ATOM  47924  NZ  LYS O  84     131.672 104.476 -70.404  1.00 87.05      OS15
ATOM  47925  C   LYS O  84     134.802  98.576 -69.949  1.00 94.89      OS15
ATOM  47926  O   LYS O  84     135.281  98.984 -71.002  1.00 94.89      OS15
ATOM  47927  N   LEU O  85     135.544  98.289 -68.887  1.00 79.05      OS15
ATOM  47928  CA  LEU O  85     136.993  98.402 -68.927  1.00 79.05      OS15
ATOM  47929  CB  LEU O  85     137.540  98.861 -67.585  1.00 49.31      OS15
ATOM  47930  CG  LEU O  85     137.180 100.272 -67.160  1.00 49.31      OS15
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ATOM  47931  CD1 LEU O  85     137.710 100.527 -65.759  1.00 49.31      OS15
ATOM  47932  CD2 LEU O  85     137.768 101.256 -68.150  1.00 49.31      OS15
ATOM  47933  C   LEU O  85     137.556  97.030 -69.229  1.00 79.05      OS15
ATOM  47934  O   LEU O  85     137.651  96.622 -70.387  1.00 79.05      OS15
ATOM  47935  N   GLY O  86     137.915  96.320 -68.162  1.00 86.67      OS15
ATOM  47936  CA  GLY O  86     138.475  94.986 -68.281  1.00 86.67      OS15
ATOM  47937  C   GLY O  86     139.191  94.607 -67.000  1.00 86.67      OS15
ATOM  47938  O   GLY O  86     140.204  93.907 -67.027  1.00 86.67      OS15
ATOM  47939  N   ILE O  87     138.660  95.080 -65.875  1.00115.20      OS15
ATOM  47940  CA  ILE O  87     139.244  94.802 -64.568  1.00115.20      OS15
ATOM  47941  CB  ILE O  87     138.946  95.933 -63.565  1.00 66.44      OS15
ATOM  47942  CG2 ILE O  87     139.618  95.635 -62.223  1.00 66.44      OS15
ATOM  47943  CG1 ILE O  87     139.449  97.261 -64.130  1.00 66.44      OS15
ATOM  47944  CD1 ILE O  87     139.336  98.419 -63.169  1.00 66.44      OS15
ATOM  47945  C   ILE O  87     138.723  93.495 -63.992  1.00115.20      OS15
ATOM  47946  O   ILE O  87     137.620  93.051 -64.323  1.00115.20      OS15
ATOM  47947  N   ARG O  88     139.527  92.893 -63.121  1.00201.25      OS15
ATOM  47948  CA  ARG O  88     139.188  91.627 -62.491  1.00201.25      OS15
ATOM  47949  CB  ARG O  88     137.759  91.659 -61.944  1.00200.95      OS15
ATOM  47950  CG  ARG O  88     137.595  92.491 -60.688  1.00200.95      OS15
ATOM  47951  CD  ARG O  88     138.350  91.881 -59.510  1.00200.95      OS15
ATOM  47952  NE  ARG O  88     137.894  90.529 -59.178  1.00200.95      OS15
ATOM  47953  CZ  ARG O  88     138.416  89.408 -59.672  1.00200.95      OS15
ATOM  47954  NH1 ARG O  88     139.427  89.461 -60.528  1.00200.95      OS15
ATOM  47955  NH2 ARG O  88     137.926  88.229 -59.308  1.00200.95      OS15
ATOM  47956  C   ARG O  88     139.336  90.489 -63.492  1.00201.25      OS15
ATOM  47957  O   ARG O  88     138.369  90.081 -64.139  1.00201.25      OS15
ATOM  47958  N   GLY O  89     140.560  89.986 -63.619  1.00201.26      OS15
ATOM  47959  CA  GLY O  89     140.823  88.895 -64.539  1.00201.26      OS15
ATOM  47960  C   GLY O  89     140.588  87.542 -63.895  1.00201.26      OS15
ATOM  47961  O   GLY O  89     139.727  86.789 -64.399  1.00201.26      OS15
ATOM  47962  OXT GLY O  89     141.262  87.233 -62.885  1.00149.50      OS15
TER   47962       GLY O  89                                             OS15
ATOM  47963  CB  MET P   1     108.768  66.417   4.036  1.00 77.26      PS16
ATOM  47964  CG  MET P   1     107.650  66.956   4.887  1.00 77.26      PS16
ATOM  47965  SD  MET P   1     107.377  65.876   6.270  1.00 77.26      PS16
ATOM  47966  CE  MET P   1     108.901  66.171   7.212  1.00 77.26      PS16
ATOM  47967  C   MET P   1     109.597  68.721   3.861  1.00 56.66      PS16
ATOM  47968  O   MET P   1     110.131  68.687   4.965  1.00 56.66      PS16
ATOM  47969  N   MET P   1     110.594  66.951   2.447  1.00 56.66      PS16
ATOM  47970  CA  MET P   1     109.337  67.451   3.081  1.00 56.66      PS16
ATOM  47971  N   VAL P   2     109.189  69.838   3.282  1.00 30.87      PS16
ATOM  47972  CA  VAL P   2     109.384  71.141   3.889  1.00 30.87      PS16
ATOM  47973  CB  VAL P   2     108.717  72.220   3.022  1.00 20.35      PS16
ATOM  47974  CG1 VAL P   2     107.347  71.729   2.552  1.00 20.35      PS16
ATOM  47975  CG2 VAL P   2     108.611  73.517   3.800  1.00 20.35      PS16
ATOM  47976  C   VAL P   2     108.874  71.217   5.323  1.00 30.87      PS16
ATOM  47977  O   VAL P   2     107.739  70.863   5.612  1.00 30.87      PS16
ATOM  47978  N   LYS P   3     109.731  71.689   6.217  1.00 49.44      PS16
ATOM  47979  CA  LYS P   3     109.380  71.799   7.620  1.00 49.44      PS16
ATOM  47980  CB  LYS P   3     110.172  70.776   8.424  1.00 22.11      PS16
ATOM  47981  CG  LYS P   3     109.821  69.353   8.075  1.00 22.11      PS16
ATOM  47982  CD  LYS P   3     110.676  68.370   8.839  1.00 22.11      PS16
ATOM  47983  CE  LYS P   3     110.438  68.445  10.341  1.00 22.11      PS16
ATOM  47984  NZ  LYS P   3     111.329  67.489  11.077  1.00 22.11      PS16
ATOM  47985  C   LYS P   3     109.608  73.184   8.210  1.00 49.44      PS16
ATOM  47986  O   LYS P   3     110.261  74.043   7.614  1.00 49.44      PS16
ATOM  47987  N   ILE P   4     109.042  73.394   9.390  1.00 38.10      PS16
ATOM  47988  CA  ILE P   4     109.174  74.647  10.104  1.00 38.10      PS16
ATOM  47989  CB  ILE P   4     107.818  75.173  10.560  1.00 22.48      PS16
ATOM  47990  CG2 ILE P   4     108.000  76.414  11.401  1.00 22.48      PS16
ATOM  47991  CG1 ILE P   4     106.938  75.438   9.339  1.00 22.48      PS16
ATOM  47992  CD1 ILE P   4     105.555  75.986   9.663  1.00 22.48      PS16
ATOM  47993  C   ILE P   4     109.948  74.218  11.312  1.00 38.10      PS16
ATOM  47994  O   ILE P   4     109.426  73.471  12.134  1.00 38.10      PS16
ATOM  47995  N   ARG P   5     111.194  74.658  11.414  1.00 24.36      PS16
ATOM  47996  CA  ARG P   5     112.001  74.264  12.551  1.00 24.36      PS16
ATOM  47997  CB  ARG P   5     112.831  73.026  12.203  1.00 32.75      PS16
ATOM  47998  CG  ARG P   5     113.831  73.192  11.087  1.00 32.75      PS16
ATOM  47999  CD  ARG P   5     114.917  72.151  11.268  1.00 32.75      PS16
ATOM  48000  NE  ARG P   5     115.872  72.077  10.165  1.00 32.75      PS16
ATOM  48001  CZ  ARG P   5     115.765  71.254   9.122  1.00 32.75      PS16
ATOM  48002  NH1 ARG P   5     114.737  70.416   9.028  1.00 32.75      PS16
ATOM  48003  NH2 ARG P   5     116.688  71.276   8.166  1.00 32.75      PS16
ATOM  48004  C   ARG P   5     112.909  75.353  13.081  1.00 24.36      PS16
ATOM  48005  O   ARG P   5     112.778  76.513  12.710  1.00 24.36      PS16
ATOM  48006  N   LEU P   6     113.817  74.957  13.968  1.00 42.76      PS16
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ATOM	48007	CA	LEU	P	6	114.776	75.860	14.581	1.00	42.76	PS16
ATOM	48008	CB	LEU	P	6	114.924	75.518	16.065	1.00	30.51	PS16
ATOM	48009	CG	LEU	P	6	113.940	76.282	16.959	1.00	30.51	PS16
ATOM	48010	CD1	LEU	P	6	112.521	76.001	16.495	1.00	30.51	PS16
ATOM	48011	CD2	LEU	P	6	114.121	75.901	18.416	1.00	30.51	PS16
ATOM	48012	C	LEU	P	6	116.138	75.802	13.891	1.00	42.76	PS16
ATOM	48013	O	LEU	P	6	116.443	74.855	13.177	1.00	42.76	PS16
ATOM	48014	N	ALA	P	7	116.953	76.828	14.095	1.00	24.74	PS16
ATOM	48015	CA	ALA	P	7	118.276	76.877	13.495	1.00	24.74	PS16
ATOM	48016	CB	ALA	P	7	118.194	77.512	12.126	1.00	14.53	PS16
ATOM	48017	C	ALA	P	7	119.188	77.686	14.414	1.00	24.74	PS16
ATOM	48018	O	ALA	P	7	118.947	78.871	14.656	1.00	24.74	PS16
ATOM	48019	N	ARG	P	8	120.228	77.034	14.928	1.00	42.28	PS16
ATOM	48020	CA	ARG	P	8	121.176	77.649	15.851	1.00	42.28	PS16
ATOM	48021	CB	ARG	P	8	122.184	76.610	16.312	1.00	54.30	PS16
ATOM	48022	CG	ARG	P	8	121.981	76.123	17.724	1.00	54.30	PS16
ATOM	48023	CD	ARG	P	8	122.927	76.823	18.677	1.00	54.30	PS16
ATOM	48024	NE	ARG	P	8	123.044	76.117	19.952	1.00	54.30	PS16
ATOM	48025	CZ	ARG	P	8	123.883	76.470	20.924	1.00	54.30	PS16
ATOM	48026	NH1	ARG	P	8	124.678	77.525	20.766	1.00	54.30	PS16
ATOM	48027	NH2	ARG	P	8	123.939	75.763	22.048	1.00	54.30	PS16
ATOM	48028	C	ARG	P	8	121.932	78.849	15.313	1.00	42.28	PS16
ATOM	48029	O	ARG	P	8	122.524	78.785	14.237	1.00	42.28	PS16
ATOM	48030	N	PHE	P	9	121.924	79.939	16.081	1.00	20.27	PS16
ATOM	48031	CA	PHE	P	9	122.635	81.157	15.703	1.00	20.27	PS16
ATOM	48032	CB	PHE	P	9	121.693	82.132	15.000	1.00	36.90	PS16
ATOM	48033	CG	PHE	P	9	121.516	81.833	13.552	1.00	36.90	PS16
ATOM	48034	CD1	PHE	P	9	122.458	82.249	12.635	1.00	36.90	PS16
ATOM	48035	CD2	PHE	P	9	120.467	81.037	13.119	1.00	36.90	PS16
ATOM	48036	CE1	PHE	P	9	122.366	81.869	11.310	1.00	36.90	PS16
ATOM	48037	CE2	PHE	P	9	120.366	80.651	11.793	1.00	36.90	PS16
ATOM	48038	CZ	PHE	P	9	121.318	81.065	10.889	1.00	36.90	PS16
ATOM	48039	C	PHE	P	9	123.336	81.847	16.864	1.00	20.27	PS16
ATOM	48040	O	PHE	P	9	124.050	82.825	16.666	1.00	20.27	PS16
ATOM	48041	N	GLY	P	10	123.158	81.337	18.074	1.00	38.19	PS16
ATOM	48042	CA	GLY	P	10	123.829	81.956	19.200	1.00	38.19	PS16
ATOM	48043	C	GLY	P	10	125.347	81.802	19.146	1.00	38.19	PS16
ATOM	48044	O	GLY	P	10	125.984	82.064	18.121	1.00	38.19	PS16
ATOM	48045	N	SER	P	11	125.917	81.385	20.274	1.00	30.30	PS16
ATOM	48046	CA	SER	P	11	127.349	81.147	20.444	1.00	30.30	PS16
ATOM	48047	CB	SER	P	11	128.095	82.460	20.673	1.00	65.08	PS16
ATOM	48048	OG	SER	P	11	127.611	83.135	21.822	1.00	65.08	PS16
ATOM	48049	C	SER	P	11	127.453	80.256	21.680	1.00	30.30	PS16
ATOM	48050	O	SER	P	11	126.446	80.023	22.360	1.00	30.30	PS16
ATOM	48051	N	LYS	P	12	128.651	79.755	21.971	1.00	55.09	PS16
ATOM	48052	CA	LYS	P	12	128.860	78.868	23.121	1.00	55.09	PS16
ATOM	48053	CB	LYS	P	12	130.349	78.778	23.443	1.00	78.25	PS16
ATOM	48054	CG	LYS	P	12	130.923	77.370	23.474	1.00	78.25	PS16
ATOM	48055	CD	LYS	P	12	132.344	77.414	24.033	1.00	78.25	PS16
ATOM	48056	CE	LYS	P	12	133.109	76.127	23.794	1.00	78.25	PS16
ATOM	48057	NZ	LYS	P	12	134.422	76.107	24.513	1.00	78.25	PS16
ATOM	48058	C	LYS	P	12	128.100	79.297	24.382	1.00	55.09	PS16
ATOM	48059	O	LYS	P	12	128.452	80.282	25.030	1.00	55.09	PS16
ATOM	48060	N	HIS	P	13	127.065	78.541	24.729	1.00	58.02	PS16
ATOM	48061	CA	HIS	P	13	126.259	78.832	25.904	1.00	58.02	PS16
ATOM	48062	CB	HIS	P	13	127.146	79.208	27.080	1.00	74.65	PS16
ATOM	48063	CG	HIS	P	13	128.188	78.189	27.398	1.00	74.65	PS16
ATOM	48064	CD2	HIS	P	13	129.533	78.297	27.512	1.00	74.65	PS16
ATOM	48065	ND1	HIS	P	13	127.880	76.880	27.693	1.00	74.65	PS16
ATOM	48066	CE1	HIS	P	13	128.990	76.223	27.980	1.00	74.65	PS16
ATOM	48067	NE2	HIS	P	13	130.008	77.061	27.878	1.00	74.65	PS16
ATOM	48068	C	HIS	P	13	125.271	79.959	25.668	1.00	58.02	PS16
ATOM	48069	O	HIS	P	13	124.399	80.204	26.492	1.00	58.02	PS16
ATOM	48070	N	ASN	P	14	125.409	80.649	24.547	1.00	23.56	PS16
ATOM	48071	CA	ASN	P	14	124.522	81.759	24.216	1.00	23.56	PS16
ATOM	48072	CB	ASN	P	14	125.367	83.014	23.951	1.00	69.46	PS16
ATOM	48073	CG	ASN	P	14	124.540	84.204	23.522	1.00	69.46	PS16
ATOM	48074	OD1	ASN	P	14	123.529	84.524	24.144	1.00	69.46	PS16
ATOM	48075	ND2	ASN	P	14	124.972	84.877	22.459	1.00	69.46	PS16
ATOM	48076	C	ASN	P	14	123.754	81.345	22.970	1.00	23.56	PS16
ATOM	48077	O	ASN	P	14	124.011	81.831	21.878	1.00	23.56	PS16
ATOM	48078	N	PRO	P	15	122.782	80.445	23.123	1.00	34.49	PS16
ATOM	48079	CD	PRO	P	15	122.418	79.691	24.334	1.00	34.95	PS16
ATOM	48080	CA	PRO	P	15	122.006	79.983	21.972	1.00	34.49	PS16
ATOM	48081	CB	PRO	P	15	121.583	78.592	22.401	1.00	34.95	PS16
ATOM	48082	CG	PRO	P	15	121.274	78.816	23.840	1.00	34.95	PS16
ATOM	48083	C	PRO	P	15	120.810	80.815	21.581	1.00	34.49	PS16

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ATOM  48084  O   PRO P  15     119.993  81.144  22.426  1.00 34.49      PS16
ATOM  48085  N   HIS P  16     120.711  81.138  20.293  1.00 28.12      PS16
ATOM  48086  CA  HIS P  16     119.577  81.888  19.744  1.00 28.12      PS16
ATOM  48087  CB  HIS P  16     119.967  83.319  19.390  1.00 59.98      PS16
ATOM  48088  CG  HIS P  16     120.063  84.224  20.571  1.00 59.98      PS16
ATOM  48089  CD2 HIS P  16     119.330  85.304  20.925  1.00 59.98      PS16
ATOM  48090  ND1 HIS P  16     120.993  84.043  21.571  1.00 59.98      PS16
ATOM  48091  CE1 HIS P  16     120.831  84.975  22.493  1.00 59.98      PS16
ATOM  48092  NE2 HIS P  16     119.829  85.753  22.125  1.00 59.98      PS16
ATOM  48093  C   HIS P  16     119.151  81.180  18.479  1.00 28.12      PS16
ATOM  48094  O   HIS P  16     119.968  80.987  17.586  1.00 28.12      PS16
ATOM  48095  N   TYR P  17     117.888  80.783  18.387  1.00 33.44      PS16
ATOM  48096  CA  TYR P  17     117.450  80.092  17.185  1.00 33.44      PS16
ATOM  48097  CB  TYR P  17     116.584  78.894  17.532  1.00 43.03      PS16
ATOM  48098  CG  TYR P  17     117.204  78.010  18.563  1.00 43.03      PS16
ATOM  48099  CD1 TYR P  17     117.184  78.365  19.904  1.00 43.03      PS16
ATOM  48100  CE1 TYR P  17     117.751  77.551  20.876  1.00 43.03      PS16
ATOM  48101  CD2 TYR P  17     117.812  76.816  18.211  1.00 43.03      PS16
ATOM  48102  CE2 TYR P  17     118.387  75.991  19.179  1.00 43.03      PS16
ATOM  48103  CZ  TYR P  17     118.349  76.369  20.510  1.00 43.03      PS16
ATOM  48104  OH  TYR P  17     118.901  75.567  21.481  1.00 43.03      PS16
ATOM  48105  C   TYR P  17     116.691  80.986  16.233  1.00 33.44      PS16
ATOM  48106  O   TYR P  17     116.342  82.117  16.550  1.00 33.44      PS16
ATOM  48107  N   ARG P  18     116.445  80.451  15.051  1.00 16.32      PS16
ATOM  48108  CA  ARG P  18     115.718  81.149  14.017  1.00 16.32      PS16
ATOM  48109  CB  ARG P  18     116.658  81.461  12.866  1.00 40.31      PS16
ATOM  48110  CG  ARG P  18     116.682  82.893  12.456  1.00 40.31      PS16
ATOM  48111  CD  ARG P  18     117.991  83.210  11.780  1.00 40.31      PS16
ATOM  48112  NE  ARG P  18     118.138  84.645  11.590  1.00 40.31      PS16
ATOM  48113  CZ  ARG P  18     119.245  85.237  11.156  1.00 40.31      PS16
ATOM  48114  NH1 ARG P  18     120.317  84.515  10.864  1.00 40.31      PS16
ATOM  48115  NH2 ARG P  18     119.270  86.555  11.014  1.00 40.31      PS16
ATOM  48116  C   ARG P  18     114.661  80.156  13.569  1.00 16.32      PS16
ATOM  48117  O   ARG P  18     114.992  79.042  13.162  1.00 16.32      PS16
ATOM  48118  N   ILE P  19     113.396  80.540  13.674  1.00 21.44      PS16
ATOM  48119  CA  ILE P  19     112.300  79.671  13.264  1.00 21.44      PS16
ATOM  48120  CB  ILE P  19     111.026  80.055  14.010  1.00 36.27      PS16
ATOM  48121  CG2 ILE P  19     109.863  79.196  13.551  1.00 36.27      PS16
ATOM  48122  CG1 ILE P  19     111.293  79.915  15.517  1.00 36.27      PS16
ATOM  48123  CD1 ILE P  19     110.174  80.404  16.413  1.00 36.27      PS16
ATOM  48124  C   ILE P  19     112.156  79.850  11.761  1.00 21.44      PS16
ATOM  48125  O   ILE P  19     111.699  80.883  11.274  1.00 21.44      PS16
ATOM  48126  N   VAL P  20     112.550  78.812  11.034  1.00 15.39      PS16
ATOM  48127  CA  VAL P  20     112.588  78.827   9.582  1.00 15.39      PS16
ATOM  48128  CB  VAL P  20     114.017  78.623   9.125  1.00  2.26      PS16
ATOM  48129  CG1 VAL P  20     114.956  79.569   9.863  1.00  2.26      PS16
ATOM  48130  CG2 VAL P  20     114.428  77.211   9.427  1.00  2.26      PS16
ATOM  48131  C   VAL P  20     111.803  77.735   8.897  1.00 15.39      PS16
ATOM  48132  O   VAL P  20     111.640  76.645   9.434  1.00 15.39      PS16
ATOM  48133  N   VAL P  21     111.321  78.029   7.699  1.00 17.00      PS16
ATOM  48134  CA  VAL P  21     110.634  77.022   6.910  1.00 17.00      PS16
ATOM  48135  CB  VAL P  21     109.757  77.636   5.821  1.00 19.29      PS16
ATOM  48136  CG1 VAL P  21     109.061  76.548   5.043  1.00 19.29      PS16
ATOM  48137  CG2 VAL P  21     108.757  78.559   6.434  1.00 19.29      PS16
ATOM  48138  C   VAL P  21     111.889  76.495   6.258  1.00 17.00      PS16
ATOM  48139  O   VAL P  21     112.884  77.220   6.227  1.00 17.00      PS16
ATOM  48140  N   THR P  22     111.874  75.269   5.747  1.00 38.76      PS16
ATOM  48141  CA  THR P  22     113.071  74.711   5.126  1.00 38.76      PS16
ATOM  48142  CB  THR P  22     114.272  74.713   6.100  1.00 23.13      PS16
ATOM  48143  OG1 THR P  22     115.446  74.287   5.408  1.00 23.13      PS16
ATOM  48144  CG2 THR P  22     114.041  73.764   7.243  1.00 23.13      PS16
ATOM  48145  C   THR P  22     112.840  73.281   4.707  1.00 38.76      PS16
ATOM  48146  O   THR P  22     111.984  72.607   5.266  1.00 38.76      PS16
ATOM  48147  N   ASP P  23     113.598  72.804   3.728  1.00 34.38      PS16
ATOM  48148  CA  ASP P  23     113.438  71.420   3.303  1.00 34.38      PS16
ATOM  48149  CB  ASP P  23     114.144  71.176   1.974  1.00 37.58      PS16
ATOM  48150  CG  ASP P  23     113.918  69.777   1.443  1.00 37.58      PS16
ATOM  48151  OD1 ASP P  23     112.815  69.488   0.949  1.00 37.58      PS16
ATOM  48152  OD2 ASP P  23     114.849  68.957   1.525  1.00 37.58      PS16
ATOM  48153  C   ASP P  23     114.056  70.546   4.389  1.00 34.38      PS16
ATOM  48154  O   ASP P  23     115.192  70.773   4.815  1.00 34.38      PS16
ATOM  48155  N   ALA P  24     113.297  69.551   4.835  1.00 29.44      PS16
ATOM  48156  CA  ALA P  24     113.738  68.643   5.888  1.00 29.44      PS16
ATOM  48157  CB  ALA P  24     112.755  67.492   6.007  1.00 88.63      PS16
ATOM  48158  C   ALA P  24     115.148  68.100   5.685  1.00 29.44      PS16
ATOM  48159  O   ALA P  24     115.896  67.917   6.638  1.00 29.44      PS16
ATOM  48160  N   ARG P  25     115.512  67.857   4.435  1.00 16.60      PS16
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ATOM  48161  CA  ARG P  25     116.816  67.303   4.112  1.00 16.60      PS16
ATOM  48162  CB  ARG P  25     116.797  66.807   2.662  1.00 30.69      PS16
ATOM  48163  CG  ARG P  25     115.764  65.728   2.390  1.00 30.69      PS16
ATOM  48164  CD  ARG P  25     115.547  65.472   0.905  1.00 30.69      PS16
ATOM  48165  NE  ARG P  25     114.795  66.564   0.296  1.00 30.69      PS16
ATOM  48166  CZ  ARG P  25     114.371  66.576  -0.963  1.00 30.69      PS16
ATOM  48167  NH1 ARG P  25     114.626  65.543  -1.749  1.00 30.69      PS16
ATOM  48168  NH2 ARG P  25     113.693  67.619  -1.431  1.00 30.69      PS16
ATOM  48169  C   ARG P  25     118.034  68.212   4.320  1.00 16.60      PS16
ATOM  48170  O   ARG P  25     119.169  67.733   4.315  1.00 16.60      PS16
ATOM  48171  N   ARG P  26     117.831  69.507   4.524  1.00 31.31      PS16
ATOM  48172  CA  ARG P  26     118.984  70.398   4.653  1.00 31.31      PS16
ATOM  48173  CB  ARG P  26     118.581  71.824   4.270  1.00 36.57      PS16
ATOM  48174  CG  ARG P  26     119.764  72.720   3.923  1.00 36.57      PS16
ATOM  48175  CD  ARG P  26     119.323  74.045   3.309  1.00 36.57      PS16
ATOM  48176  NE  ARG P  26     118.898  73.940   1.912  1.00 36.57      PS16
ATOM  48177  CZ  ARG P  26     119.710  73.631   0.907  1.00 36.57      PS16
ATOM  48178  NH1 ARG P  26     120.995  73.390   1.143  1.00 36.57      PS16
ATOM  48179  NH2 ARG P  26     119.245  73.587  -0.336  1.00 36.57      PS16
ATOM  48180  C   ARG P  26     119.682  70.418   6.002  1.00 31.31      PS16
ATOM  48181  O   ARG P  26     119.114  69.993   7.000  1.00 31.31      PS16
ATOM  48182  N   LYS P  27     120.927  70.900   6.012  1.00 24.24      PS16
ATOM  48183  CA  LYS P  27     121.722  71.024   7.241  1.00 24.24      PS16
ATOM  48184  CB  LYS P  27     122.967  71.889   7.020  1.00 34.62      PS16
ATOM  48185  CG  LYS P  27     123.961  71.447   5.975  1.00 34.62      PS16
ATOM  48186  CD  LYS P  27     125.145  72.418   5.969  1.00 34.62      PS16
ATOM  48187  CE  LYS P  27     126.307  71.914   5.119  1.00 34.62      PS16
ATOM  48188  NZ  LYS P  27     125.944  71.655   3.679  1.00 34.62      PS16
ATOM  48189  C   LYS P  27     120.883  71.742   8.294  1.00 24.24      PS16
ATOM  48190  O   LYS P  27     119.973  72.500   7.969  1.00 24.24      PS16
ATOM  48191  N   ARG P  28     121.194  71.531   9.561  1.00 47.99      PS16
ATOM  48192  CA  ARG P  28     120.431  72.207  10.589  1.00 47.99      PS16
ATOM  48193  CB  ARG P  28     121.000  71.886  11.983  1.00 20.32      PS16
ATOM  48194  CG  ARG P  28     120.825  73.003  13.008  1.00 20.32      PS16
ATOM  48195  CD  ARG P  28     120.551  72.485  14.420  1.00 20.32      PS16
ATOM  48196  NE  ARG P  28     121.729  72.156  15.232  1.00 20.32      PS16
ATOM  48197  CZ  ARG P  28     122.776  72.957  15.404  1.00 20.32      PS16
ATOM  48198  NH1 ARG P  28     122.809  74.141  14.803  1.00 20.32      PS16
ATOM  48199  NH2 ARG P  28     123.766  72.599  16.213  1.00 20.32      PS16
ATOM  48200  C   ARG P  28     120.496  73.703  10.326  1.00 47.99      PS16
ATOM  48201  O   ARG P  28     119.472  74.389  10.322  1.00 47.99      PS16
ATOM  48202  N   ASP P  29     121.698  74.198  10.051  1.00 25.87      PS16
ATOM  48203  CA  ASP P  29     121.879  75.625   9.861  1.00 25.87      PS16
ATOM  48204  CB  ASP P  29     122.976  76.111  10.802  1.00 85.59      PS16
ATOM  48205  CG  ASP P  29     122.927  75.412  12.144  1.00 85.59      PS16
ATOM  48206  OD1 ASP P  29     123.250  74.205  12.179  1.00 85.59      PS16
ATOM  48207  OD2 ASP P  29     122.555  76.055  13.153  1.00 85.59      PS16
ATOM  48208  C   ASP P  29     122.173  76.080   8.450  1.00 25.87      PS16
ATOM  48209  O   ASP P  29     122.812  77.117   8.242  1.00 25.87      PS16
ATOM  48210  N   GLY P  30     121.687  75.321   7.477  1.00 44.89      PS16
ATOM  48211  CA  GLY P  30     121.918  75.678   6.093  1.00 44.89      PS16
ATOM  48212  C   GLY P  30     120.917  76.676   5.554  1.00 44.89      PS16
ATOM  48213  O   GLY P  30     120.270  77.408   6.305  1.00 44.89      PS16
ATOM  48214  N   LYS P  31     120.782  76.682   4.236  1.00 25.49      PS16
ATOM  48215  CA  LYS P  31     119.879  77.587   3.546  1.00 25.49      PS16
ATOM  48216  CB  LYS P  31     120.164  77.522   2.048  1.00 57.73      PS16
ATOM  48217  CG  LYS P  31     119.286  78.396   1.183  1.00 57.73      PS16
ATOM  48218  CD  LYS P  31     119.659  78.223  -0.278  1.00 57.73      PS16
ATOM  48219  CE  LYS P  31     119.415  76.783  -0.734  1.00 57.73      PS16
ATOM  48220  NZ  LYS P  31     120.021  76.440  -2.073  1.00 57.73      PS16
ATOM  48221  C   LYS P  31     118.401  77.322   3.785  1.00 25.49      PS16
ATOM  48222  O   LYS P  31     117.830  76.415   3.188  1.00 25.49      PS16
ATOM  48223  N   TYR P  32     117.768  78.103   4.651  1.00  9.72      PS16
ATOM  48224  CA  TYR P  32     116.339  77.918   4.858  1.00  9.72      PS16
ATOM  48225  CB  TYR P  32     115.855  78.594   6.143  1.00 40.24      PS16
ATOM  48226  CG  TYR P  32     116.489  79.918   6.524  1.00 40.24      PS16
ATOM  48227  CD1 TYR P  32     117.711  79.960   7.194  1.00 40.24      PS16
ATOM  48228  CE1 TYR P  32     118.230  81.164   7.690  1.00 40.24      PS16
ATOM  48229  CD2 TYR P  32     115.806  81.118   6.340  1.00 40.24      PS16
ATOM  48230  CE2 TYR P  32     116.316  82.328   6.830  1.00 40.24      PS16
ATOM  48231  CZ  TYR P  32     117.524  82.343   7.511  1.00 40.24      PS16
ATOM  48232  OH  TYR P  32     117.999  83.521   8.059  1.00 40.24      PS16
ATOM  48233  C   TYR P  32     115.494  78.422   3.671  1.00  9.72      PS16
ATOM  48234  O   TYR P  32     115.987  79.082   2.753  1.00  9.72      PS16
ATOM  48235  N   ILE P  33     114.212  78.082   3.693  1.00 25.94      PS16
ATOM  48236  CA  ILE P  33     113.281  78.480   2.648  1.00 25.94      PS16
ATOM  48237  CB  ILE P  33     112.042  77.560   2.658  1.00 48.08      PS16
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ATOM  48238  CG2 ILE P  33     110.814  78.333   2.253  1.00 48.08      PS16
ATOM  48239  CG1 ILE P  33     112.261  76.365   1.727  1.00 48.08      PS16
ATOM  48240  CD1 ILE P  33     113.406  75.447   2.120  1.00 48.08      PS16
ATOM  48241  C   ILE P  33     112.856  79.918   2.908  1.00 25.94      PS16
ATOM  48242  O   ILE P  33     112.736  80.721   1.986  1.00 25.94      PS16
ATOM  48243  N   GLU P  34     112.641  80.226   4.183  1.00 42.53      PS16
ATOM  48244  CA  GLU P  34     112.232  81.549   4.625  1.00 42.53      PS16
ATOM  48245  CB  GLU P  34     110.803  81.835   4.188  1.00 55.54      PS16
ATOM  48246  CG  GLU P  34     110.295  83.169   4.680  1.00 55.54      PS16
ATOM  48247  CD  GLU P  34     108.798  83.336   4.513  1.00 55.54      PS16
ATOM  48248  OE1 GLU P  34     108.285  83.055   3.404  1.00 55.54      PS16
ATOM  48249  OE2 GLU P  34     108.143  83.759   5.495  1.00 55.54      PS16
ATOM  48250  C   GLU P  34     112.292  81.595   6.145  1.00 42.53      PS16
ATOM  48251  O   GLU P  34     112.197  80.565   6.805  1.00 42.53      PS16
ATOM  48252  N   LYS P  35     112.460  82.783   6.705  1.00 45.27      PS16
ATOM  48253  CA  LYS P  35     112.495  82.929   8.151  1.00 45.27      PS16
ATOM  48254  CB  LYS P  35     113.521  83.972   8.571  1.00 37.79      PS16
ATOM  48255  CG  LYS P  35     113.447  84.394  10.046  1.00 37.79      PS16
ATOM  48256  CD  LYS P  35     114.581  85.384  10.397  1.00 37.79      PS16
ATOM  48257  CE  LYS P  35     114.673  85.691  11.891  1.00 37.79      PS16
ATOM  48258  NZ  LYS P  35     115.944  86.391  12.283  1.00 37.79      PS16
ATOM  48259  C   LYS P  35     111.121  83.415   8.530  1.00 45.27      PS16
ATOM  48260  O   LYS P  35     110.500  84.182   7.795  1.00 45.27      PS16
ATOM  48261  N   ILE P  36     110.620  82.964   9.665  1.00 34.60      PS16
ATOM  48262  CA  ILE P  36     109.319  83.423  10.074  1.00 34.60      PS16
ATOM  48263  CB  ILE P  36     108.247  82.388   9.810  1.00 19.06      PS16
ATOM  48264  CG2 ILE P  36     107.980  82.316   8.310  1.00 19.06      PS16
ATOM  48265  CG1 ILE P  36     108.659  81.053  10.442  1.00 19.06      PS16
ATOM  48266  CD1 ILE P  36     107.548  79.985  10.461  1.00 19.06      PS16
ATOM  48267  C   ILE P  36     109.346  83.748  11.533  1.00 34.60      PS16
ATOM  48268  O   ILE P  36     108.343  84.149  12.094  1.00 34.60      PS16
ATOM  48269  N   GLY P  37     110.498  83.585  12.158  1.00 17.22      PS16
ATOM  48270  CA  GLY P  37     110.573  83.920  13.565  1.00 17.22      PS16
ATOM  48271  C   GLY P  37     111.918  83.689  14.203  1.00 17.22      PS16
ATOM  48272  O   GLY P  37     112.848  83.190  13.561  1.00 17.22      PS16
ATOM  48273  N   TYR P  38     112.032  84.085  15.464  1.00 35.74      PS16
ATOM  48274  CA  TYR P  38     113.257  83.852  16.194  1.00 35.74      PS16
ATOM  48275  CB  TYR P  38     114.168  85.068  16.179  1.00 47.94      PS16
ATOM  48276  CG  TYR P  38     113.608  86.337  16.732  1.00 47.94      PS16
ATOM  48277  CD1 TYR P  38     113.805  86.683  18.064  1.00 47.94      PS16
ATOM  48278  CE1 TYR P  38     113.423  87.935  18.544  1.00 47.94      PS16
ATOM  48279  CD2 TYR P  38     112.998  87.262  15.894  1.00 47.94      PS16
ATOM  48280  CE2 TYR P  38     112.612  88.515  16.360  1.00 47.94      PS16
ATOM  48281  CZ  TYR P  38     112.833  88.845  17.681  1.00 47.94      PS16
ATOM  48282  OH  TYR P  38     112.498  90.103  18.117  1.00 47.94      PS16
ATOM  48283  C   TYR P  38     112.923  83.433  17.599  1.00 35.74      PS16
ATOM  48284  O   TYR P  38     111.782  83.556  18.032  1.00 35.74      PS16
ATOM  48285  N   TYR P  39     113.916  82.934  18.316  1.00 34.58      PS16
ATOM  48286  CA  TYR P  39     113.654  82.441  19.646  1.00 34.58      PS16
ATOM  48287  CB  TYR P  39     113.032  81.043  19.528  1.00 46.48      PS16
ATOM  48288  CG  TYR P  39     113.000  80.276  20.821  1.00 46.48      PS16
ATOM  48289  CD1 TYR P  39     112.237  80.728  21.892  1.00 46.48      PS16
ATOM  48290  CE1 TYR P  39     112.248  80.069  23.108  1.00 46.48      PS16
ATOM  48291  CD2 TYR P  39     113.773  79.133  20.997  1.00 46.48      PS16
ATOM  48292  CE2 TYR P  39     113.791  78.466  22.213  1.00 46.48      PS16
ATOM  48293  CZ  TYR P  39     113.024  78.946  23.264  1.00 46.48      PS16
ATOM  48294  OH  TYR P  39     113.031  78.328  24.489  1.00 46.48      PS16
ATOM  48295  C   TYR P  39     114.876  82.384  20.556  1.00 34.58      PS16
ATOM  48296  O   TYR P  39     115.849  81.669  20.265  1.00 34.58      PS16
ATOM  48297  N   ASP P  40     114.809  83.144  21.655  1.00 33.34      PS16
ATOM  48298  CA  ASP P  40     115.865  83.176  22.661  1.00 33.34      PS16
ATOM  48299  CB  ASP P  40     116.079  84.579  23.199  1.00 50.93      PS16
ATOM  48300  CG  ASP P  40     117.004  84.599  24.399  1.00 50.93      PS16
ATOM  48301  OD1 ASP P  40     117.135  85.680  25.014  1.00 50.93      PS16
ATOM  48302  OD2 ASP P  40     117.598  83.542  24.727  1.00 50.93      PS16
ATOM  48303  C   ASP P  40     115.386  82.279  23.790  1.00 33.34      PS16
ATOM  48304  O   ASP P  40     114.521  82.660  24.572  1.00 33.34      PS16
ATOM  48305  N   PRO P  41     115.955  81.070  23.884  1.00 34.48      PS16
ATOM  48306  CD  PRO P  41     117.140  80.657  23.114  1.00 61.95      PS16
ATOM  48307  CA  PRO P  41     115.629  80.061  24.885  1.00 34.48      PS16
ATOM  48308  CB  PRO P  41     116.502  78.889  24.475  1.00 61.95      PS16
ATOM  48309  CG  PRO P  41     117.721  79.571  23.984  1.00 61.95      PS16
ATOM  48310  C   PRO P  41     115.914  80.503  26.294  1.00 34.48      PS16
ATOM  48311  O   PRO P  41     115.503  79.854  27.240  1.00 34.48      PS16
ATOM  48312  N   ARG P  42     116.628  81.602  26.449  1.00 29.72      PS16
ATOM  48313  CA  ARG P  42     116.924  82.051  27.793  1.00 29.72      PS16
ATOM  48314  CB  ARG P  42     118.424  82.183  27.969  1.00 53.21      PS16
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ATOM	48315	CG	ARG	P	42	119.115	80.900	27.660	1.00	53.21	PS16
ATOM	48316	CD	ARG	P	42	120.517	80.965	28.113	1.00	53.21	PS16
ATOM	48317	NE	ARG	P	42	121.236	82.019	27.427	1.00	53.21	PS16
ATOM	48318	CZ	ARG	P	42	122.437	82.433	27.804	1.00	53.21	PS16
ATOM	48319	NH1	ARG	P	42	123.025	81.869	28.859	1.00	53.21	PS16
ATOM	48320	NH2	ARG	P	42	123.048	83.402	27.132	1.00	53.21	PS16
ATOM	48321	C	ARG	P	42	116.226	83.356	28.101	1.00	29.72	PS16
ATOM	48322	O	ARG	P	42	116.629	84.095	29.004	1.00	29.72	PS16
ATOM	48323	N	LYS	P	43	115.172	83.620	27.337	1.00	64.65	PS16
ATOM	48324	CA	LYS	P	43	114.382	84.819	27.508	1.00	64.65	PS16
ATOM	48325	CB	LYS	P	43	113.141	84.500	28.331	1.00	73.51	PS16
ATOM	48326	CG	LYS	P	43	112.574	83.102	28.113	1.00	73.51	PS16
ATOM	48327	CD	LYS	P	43	113.219	82.084	29.035	1.00	73.51	PS16
ATOM	48328	CE	LYS	P	43	112.439	80.781	29.045	1.00	73.51	PS16
ATOM	48329	NZ	LYS	P	43	112.926	79.880	30.130	1.00	73.51	PS16
ATOM	48330	C	LYS	P	43	115.238	85.823	28.255	1.00	64.65	PS16
ATOM	48331	O	LYS	P	43	114.968	86.123	29.417	1.00	64.65	PS16
ATOM	48332	N	THR	P	44	116.290	86.312	27.603	1.00	48.99	PS16
ATOM	48333	CA	THR	P	44	117.189	87.274	28.229	1.00	48.99	PS16
ATOM	48334	CB	THR	P	44	118.637	87.069	27.744	1.00	37.40	PS16
ATOM	48335	OG1	THR	P	44	118.695	87.202	26.320	1.00	37.40	PS16
ATOM	48336	CG2	THR	P	44	119.132	85.697	28.146	1.00	37.40	PS16
ATOM	48337	C	THR	P	44	116.763	88.723	27.981	1.00	48.99	PS16
ATOM	48338	O	THR	P	44	117.431	89.671	28.407	1.00	48.99	PS16
ATOM	48339	N	THR	P	45	115.642	88.884	27.289	1.00	66.78	PS16
ATOM	48340	CA	THR	P	45	115.103	90.202	27.001	1.00	66.78	PS16
ATOM	48341	CB	THR	P	45	115.720	90.806	25.751	1.00	44.36	PS16
ATOM	48342	OG1	THR	P	45	115.191	90.142	24.598	1.00	44.36	PS16
ATOM	48343	CG2	THR	P	45	117.227	90.658	25.778	1.00	44.36	PS16
ATOM	48344	C	THR	P	45	113.609	90.067	26.753	1.00	66.78	PS16
ATOM	48345	O	THR	P	45	113.145	89.055	26.235	1.00	66.78	PS16
ATOM	48346	N	PRO	P	46	112.839	91.102	27.098	1.00	70.11	PS16
ATOM	48347	CD	PRO	P	46	113.289	92.485	27.303	1.00	59.52	PS16
ATOM	48348	CA	PRO	P	46	111.393	91.072	26.903	1.00	70.11	PS16
ATOM	48349	CB	PRO	P	46	111.002	92.534	27.047	1.00	59.52	PS16
ATOM	48350	CG	PRO	P	46	112.219	93.244	26.580	1.00	59.52	PS16
ATOM	48351	C	PRO	P	46	110.994	90.516	25.553	1.00	70.11	PS16
ATOM	48352	O	PRO	P	46	109.942	89.899	25.418	1.00	70.11	PS16
ATOM	48353	N	ASP	P	47	111.833	90.730	24.551	1.00	61.52	PS16
ATOM	48354	CA	ASP	P	47	111.502	90.239	23.228	1.00	61.52	PS16
ATOM	48355	CB	ASP	P	47	111.810	91.310	22.183	1.00139.90		PS16
ATOM	48356	CG	ASP	P	47	111.059	91.089	20.888	1.00139.90		PS16
ATOM	48357	OD1	ASP	P	47	111.165	91.946	19.985	1.00139.90		PS16
ATOM	48358	OD2	ASP	P	47	110.360	90.059	20.775	1.00139.90		PS16
ATOM	48359	C	ASP	P	47	112.253	88.961	22.907	1.00	61.52	PS16
ATOM	48360	O	ASP	P	47	113.292	89.003	22.246	1.00	61.52	PS16
ATOM	48361	N	TRP	P	48	111.733	87.824	23.373	1.00	46.93	PS16
ATOM	48362	CA	TRP	P	48	112.388	86.546	23.112	1.00	46.93	PS16
ATOM	48363	CB	TRP	P	48	112.907	85.908	24.401	1.00	53.49	PS16
ATOM	48364	CG	TRP	P	48	111.889	85.750	25.472	1.00	53.49	PS16
ATOM	48365	CD2	TRP	P	48	111.098	84.586	25.747	1.00	53.49	PS16
ATOM	48366	CE2	TRP	P	48	110.320	84.872	26.882	1.00	53.49	PS16
ATOM	48367	CE3	TRP	P	48	110.975	83.330	25.146	1.00	53.49	PS16
ATOM	48368	CD1	TRP	P	48	111.560	86.664	26.415	1.00	53.49	PS16
ATOM	48369	NE1	TRP	P	48	110.621	86.147	27.271	1.00	53.49	PS16
ATOM	48370	CZ2	TRP	P	48	109.435	83.951	27.433	1.00	53.49	PS16
ATOM	48371	CZ3	TRP	P	48	110.090	82.412	25.697	1.00	53.49	PS16
ATOM	48372	CH2	TRP	P	48	109.335	82.729	26.828	1.00	53.49	PS16
ATOM	48373	C	TRP	P	48	111.574	85.517	22.351	1.00	46.93	PS16
ATOM	48374	O	TRP	P	48	111.823	84.321	22.475	1.00	46.93	PS16
ATOM	48375	N	LEU	P	49	110.593	85.969	21.580	1.00	43.38	PS16
ATOM	48376	CA	LEU	P	49	109.829	85.045	20.757	1.00	43.38	PS16
ATOM	48377	CB	LEU	P	49	109.077	84.006	21.599	1.00	21.61	PS16
ATOM	48378	CG	LEU	P	49	108.258	83.073	20.684	1.00	21.61	PS16
ATOM	48379	CD1	LEU	P	49	109.182	82.179	19.910	1.00	21.61	PS16
ATOM	48380	CD2	LEU	P	49	107.315	82.239	21.479	1.00	21.61	PS16
ATOM	48381	C	LEU	P	49	108.854	85.686	19.788	1.00	43.38	PS16
ATOM	48382	O	LEU	P	49	107.683	85.878	20.092	1.00	43.38	PS16
ATOM	48383	N	LYS	P	50	109.343	86.023	18.609	1.00	27.50	PS16
ATOM	48384	CA	LYS	P	50	108.474	86.595	17.597	1.00	27.50	PS16
ATOM	48385	CB	LYS	P	50	109.223	87.644	16.760	1.00125.40		PS16
ATOM	48386	CG	LYS	P	50	108.545	88.005	15.434	1.00125.40		PS16
ATOM	48387	CD	LYS	P	50	109.414	88.935	14.585	1.00125.40		PS16
ATOM	48388	CE	LYS	P	50	108.971	88.963	13.114	1.00125.40		PS16
ATOM	48389	NZ	LYS	P	50	109.274	87.704	12.358	1.00125.40		PS16
ATOM	48390	C	LYS	P	50	108.078	85.407	16.729	1.00	27.50	PS16
ATOM	48391	O	LYS	P	50	108.822	84.417	16.630	1.00	27.50	PS16

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ATOM  48392  N   VAL P  51     106.912  85.484  16.104  1.00 32.33      PS16
ATOM  48393  CA  VAL P  51     106.516  84.376  15.277  1.00 32.33      PS16
ATOM  48394  CB  VAL P  51     105.534  83.464  16.005  1.00 67.08      PS16
ATOM  48395  CG1 VAL P  51     104.974  82.437  15.048  1.00 67.08      PS16
ATOM  48396  CG2 VAL P  51     106.247  82.763  17.145  1.00 67.08      PS16
ATOM  48397  C   VAL P  51     105.929  84.749  13.949  1.00 32.33      PS16
ATOM  48398  O   VAL P  51     106.054  83.988  13.017  1.00 32.33      PS16
ATOM  48399  N   ASP P  52     105.298  85.903  13.823  1.00 49.50      PS16
ATOM  48400  CA  ASP P  52     104.712  86.246  12.527  1.00 49.50      PS16
ATOM  48401  CB  ASP P  52     105.802  86.310  11.441  1.00 62.78      PS16
ATOM  48402  CG  ASP P  52     105.236  86.629  10.051  1.00 62.78      PS16
ATOM  48403  OD1 ASP P  52     104.269  85.962   9.620  1.00 62.78      PS16
ATOM  48404  OD2 ASP P  52     105.761  87.546   9.378  1.00 62.78      PS16
ATOM  48405  C   ASP P  52     103.702  85.159  12.162  1.00 49.50      PS16
ATOM  48406  O   ASP P  52     103.877  84.438  11.178  1.00 49.50      PS16
ATOM  48407  N   VAL P  53     102.644  85.036  12.951  1.00 46.60      PS16
ATOM  48408  CA  VAL P  53     101.659  84.007  12.683  1.00 46.60      PS16
ATOM  48409  CB  VAL P  53     100.435  84.155  13.571  1.00 31.99      PS16
ATOM  48410  CG1 VAL P  53     100.867  84.593  14.945  1.00 31.99      PS16
ATOM  48411  CG2 VAL P  53      99.464  85.136  12.971  1.00 31.99      PS16
ATOM  48412  C   VAL P  53     101.201  84.030  11.240  1.00 46.60      PS16
ATOM  48413  O   VAL P  53     101.042  82.983  10.626  1.00 46.60      PS16
ATOM  48414  N   GLU P  54     100.991  85.216  10.689  1.00 41.74      PS16
ATOM  48415  CA  GLU P  54     100.541  85.306   9.310  1.00 41.74      PS16
ATOM  48416  CB  GLU P  54     100.708  86.734   8.784  1.00201.26      PS16
ATOM  48417  CG  GLU P  54     100.539  86.854   7.275  1.00201.26      PS16
ATOM  48418  CD  GLU P  54      99.415  85.981   6.742  1.00201.26      PS16
ATOM  48419  OE1 GLU P  54      98.270  86.127   7.217  1.00201.26      PS16
ATOM  48420  OE2 GLU P  54      99.678  85.145   5.851  1.00201.26      PS16
ATOM  48421  C   GLU P  54     101.294  84.334   8.406  1.00 41.74      PS16
ATOM  48422  O   GLU P  54     100.693  83.485   7.743  1.00 41.74      PS16
ATOM  48423  N   ARG P  55     102.613  84.460   8.380  1.00 38.35      PS16
ATOM  48424  CA  ARG P  55     103.419  83.596   7.544  1.00 38.35      PS16
ATOM  48425  CB  ARG P  55     104.864  84.065   7.557  1.00 54.05      PS16
ATOM  48426  CG  ARG P  55     105.109  85.317   6.741  1.00 54.05      PS16
ATOM  48427  CD  ARG P  55     105.505  84.972   5.329  1.00 54.05      PS16
ATOM  48428  NE  ARG P  55     104.369  84.642   4.483  1.00 54.05      PS16
ATOM  48429  CZ  ARG P  55     104.489  84.109   3.270  1.00 54.05      PS16
ATOM  48430  NH1 ARG P  55     105.696  83.845   2.783  1.00 54.05      PS16
ATOM  48431  NH2 ARG P  55     103.412  83.854   2.530  1.00 54.05      PS16
ATOM  48432  C   ARG P  55     103.330  82.158   8.017  1.00 38.35      PS16
ATOM  48433  O   ARG P  55     102.988  81.259   7.244  1.00 38.35      PS16
ATOM  48434  N   ALA P  56     103.644  81.932   9.285  1.00 36.07      PS16
ATOM  48435  CA  ALA P  56     103.570  80.580   9.802  1.00 36.07      PS16
ATOM  48436  CB  ALA P  56     103.516  80.595  11.318  1.00 24.60      PS16
ATOM  48437  C   ALA P  56     102.308  79.948   9.222  1.00 36.07      PS16
ATOM  48438  O   ALA P  56     102.381  79.057   8.380  1.00 36.07      PS16
ATOM  48439  N   ARG P  57     101.151  80.438   9.640  1.00 37.98      PS16
ATOM  48440  CA  ARG P  57      99.900  79.900   9.143  1.00 37.98      PS16
ATOM  48441  CB  ARG P  57      98.743  80.836   9.460  1.00 78.92      PS16
ATOM  48442  CG  ARG P  57      98.419  80.937  10.925  1.00 78.92      PS16
ATOM  48443  CD  ARG P  57      97.165  81.756  11.108  1.00 78.92      PS16
ATOM  48444  NE  ARG P  57      96.813  81.931  12.511  1.00 78.92      PS16
ATOM  48445  CZ  ARG P  57      95.758  82.624  12.923  1.00 78.92      PS16
ATOM  48446  NH1 ARG P  57      94.963  83.199  12.031  1.00 78.92      PS16
ATOM  48447  NH2 ARG P  57      95.500  82.742  14.220  1.00 78.92      PS16
ATOM  48448  C   ARG P  57      99.951  79.656   7.645  1.00 37.98      PS16
ATOM  48449  O   ARG P  57      99.312  78.737   7.144  1.00 37.98      PS16
ATOM  48450  N   TYR P  58     100.695  80.466   6.907  1.00 39.31      PS16
ATOM  48451  CA  TYR P  58     100.744  80.214   5.479  1.00 39.31      PS16
ATOM  48452  CB  TYR P  58     101.443  81.304   4.702  1.00 38.63      PS16
ATOM  48453  CG  TYR P  58     101.759  80.815   3.308  1.00 38.63      PS16
ATOM  48454  CD1 TYR P  58     103.051  80.454   2.945  1.00 38.63      PS16
ATOM  48455  CE1 TYR P  58     103.331  79.974   1.663  1.00 38.63      PS16
ATOM  48456  CD2 TYR P  58     100.752  80.681   2.366  1.00 38.63      PS16
ATOM  48457  CE2 TYR P  58     101.012  80.206   1.093  1.00 38.63      PS16
ATOM  48458  CZ  TYR P  58     102.300  79.856   0.736  1.00 38.63      PS16
ATOM  48459  OH  TYR P  58     102.546  79.423  -0.556  1.00 38.63      PS16
ATOM  48460  C   TYR P  58     101.495  78.953   5.187  1.00 39.31      PS16
ATOM  48461  O   TYR P  58     101.046  78.115   4.424  1.00 39.31      PS16
ATOM  48462  N   TRP P  59     102.677  78.837   5.759  1.00 47.47      PS16
ATOM  48463  CA  TRP P  59     103.447  77.650   5.499  1.00 47.47      PS16
ATOM  48464  CB  TRP P  59     104.796  77.752   6.182  1.00 34.27      PS16
ATOM  48465  CG  TRP P  59     105.654  78.524   5.287  1.00 34.27      PS16
ATOM  48466  CD2 TRP P  59     106.141  78.087   4.020  1.00 34.27      PS16
ATOM  48467  CE2 TRP P  59     106.779  79.180   3.418  1.00 34.27      PS16
ATOM  48468  CE3 TRP P  59     106.089  76.877   3.335  1.00 34.27      PS16
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ATOM	48469	CD1	TRP	P	59	106.011	79.831	5.408	1.00	34.27	PS16
ATOM	48470	NE1	TRP	P	59	106.689	80.236	4.283	1.00	34.27	PS16
ATOM	48471	CZ2	TRP	P	59	107.366	79.098	2.167	1.00	34.27	PS16
ATOM	48472	CZ3	TRP	P	59	106.671	76.797	2.089	1.00	34.27	PS16
ATOM	48473	CH2	TRP	P	59	107.301	77.900	1.516	1.00	34.27	PS16
ATOM	48474	C	TRP	P	59	102.694	76.406	5.880	1.00	47.47	PS16
ATOM	48475	O	TRP	P	59	102.617	75.462	5.089	1.00	47.47	PS16
ATOM	48476	N	LEU	P	60	102.119	76.414	7.075	1.00	30.24	PS16
ATOM	48477	CA	LEU	P	60	101.330	75.288	7.519	1.00	30.24	PS16
ATOM	48478	CB	LEU	P	60	100.685	75.608	8.851	1.00	33.04	PS16
ATOM	48479	CG	LEU	P	60	101.647	75.817	10.004	1.00	33.04	PS16
ATOM	48480	CD1	LEU	P	60	100.837	75.996	11.268	1.00	33.04	PS16
ATOM	48481	CD2	LEU	P	60	102.564	74.612	10.143	1.00	33.04	PS16
ATOM	48482	C	LEU	P	60	100.245	75.059	6.467	1.00	30.24	PS16
ATOM	48483	O	LEU	P	60	99.741	73.945	6.291	1.00	30.24	PS16
ATOM	48484	N	SER	P	61	99.884	76.129	5.770	1.00	38.31	PS16
ATOM	48485	CA	SER	P	61	98.874	76.035	4.741	1.00	38.31	PS16
ATOM	48486	CB	SER	P	61	98.635	77.404	4.102	1.00	69.76	PS16
ATOM	48487	OG	SER	P	61	98.093	77.283	2.798	1.00	69.76	PS16
ATOM	48488	C	SER	P	61	99.298	75.034	3.681	1.00	38.31	PS16
ATOM	48489	O	SER	P	61	98.451	74.484	2.985	1.00	38.31	PS16
ATOM	48490	N	VAL	P	62	100.597	74.778	3.545	1.00	44.44	PS16
ATOM	48491	CA	VAL	P	62	101.021	73.826	2.527	1.00	44.44	PS16
ATOM	48492	CB	VAL	P	62	101.518	74.517	1.249	1.00	25.78	PS16
ATOM	48493	CG1	VAL	P	62	100.544	74.229	0.122	1.00	25.78	PS16
ATOM	48494	CG2	VAL	P	62	101.693	76.011	1.478	1.00	25.78	PS16
ATOM	48495	C	VAL	P	62	102.054	72.782	2.879	1.00	44.44	PS16
ATOM	48496	O	VAL	P	62	103.153	72.778	2.334	1.00	44.44	PS16
ATOM	48497	N	GLY	P	63	101.693	71.886	3.783	1.00	43.05	PS16
ATOM	48498	CA	GLY	P	63	102.585	70.805	4.136	1.00	43.05	PS16
ATOM	48499	C	GLY	P	63	103.779	71.125	4.989	1.00	43.05	PS16
ATOM	48500	O	GLY	P	63	104.602	70.248	5.215	1.00	43.05	PS16
ATOM	48501	N	ALA	P	64	103.915	72.360	5.445	1.00	36.30	PS16
ATOM	48502	CA	ALA	P	64	105.045	72.665	6.306	1.00	36.30	PS16
ATOM	48503	CB	ALA	P	64	105.108	74.151	6.600	1.00	68.44	PS16
ATOM	48504	C	ALA	P	64	104.765	71.873	7.586	1.00	36.30	PS16
ATOM	48505	O	ALA	P	64	103.675	71.952	8.165	1.00	36.30	PS16
ATOM	48506	N	GLN	P	65	105.730	71.081	8.016	1.00	28.77	PS16
ATOM	48507	CA	GLN	P	65	105.522	70.302	9.206	1.00	28.77	PS16
ATOM	48508	CB	GLN	P	65	105.807	68.850	8.932	1.00	29.62	PS16
ATOM	48509	CG	GLN	P	65	104.880	67.931	9.666	1.00	29.62	PS16
ATOM	48510	CD	GLN	P	65	103.563	67.793	8.949	1.00	29.62	PS16
ATOM	48511	OE1	GLN	P	65	103.516	67.807	7.720	1.00	29.62	PS16
ATOM	48512	NE2	GLN	P	65	102.488	67.636	9.705	1.00	29.62	PS16
ATOM	48513	C	GLN	P	65	106.452	70.793	10.283	1.00	28.77	PS16
ATOM	48514	O	GLN	P	65	107.673	70.665	10.173	1.00	28.77	PS16
ATOM	48515	N	PRO	P	66	105.890	71.357	11.352	1.00	23.54	PS16
ATOM	48516	CD	PRO	P	66	104.455	71.637	11.507	1.00	28.18	PS16
ATOM	48517	CA	PRO	P	66	106.648	71.891	12.486	1.00	23.54	PS16
ATOM	48518	CB	PRO	P	66	105.626	72.753	13.192	1.00	28.18	PS16
ATOM	48519	CG	PRO	P	66	104.371	71.965	12.970	1.00	28.18	PS16
ATOM	48520	C	PRO	P	66	107.213	70.855	13.429	1.00	23.54	PS16
ATOM	48521	O	PRO	P	66	106.520	69.892	13.769	1.00	23.54	PS16
ATOM	48522	N	THR	P	67	108.468	71.070	13.839	1.00	28.84	PS16
ATOM	48523	CA	THR	P	67	109.172	70.217	14.804	1.00	28.84	PS16
ATOM	48524	CB	THR	P	67	110.508	70.819	15.248	1.00	29.41	PS16
ATOM	48525	OG1	THR	P	67	111.422	70.871	14.151	1.00	29.41	PS16
ATOM	48526	CG2	THR	P	67	111.089	70.012	16.387	1.00	29.41	PS16
ATOM	48527	C	THR	P	67	108.314	70.303	16.041	1.00	28.84	PS16
ATOM	48528	O	THR	P	67	107.582	71.279	16.205	1.00	28.84	PS16
ATOM	48529	N	ASP	P	68	108.403	69.327	16.933	1.00	52.06	PS16
ATOM	48530	CA	ASP	P	68	107.592	69.435	18.125	1.00	52.06	PS16
ATOM	48531	CB	ASP	P	68	107.879	68.286	19.085	1.00	156.03	PS16
ATOM	48532	CG	ASP	P	68	107.307	66.968	18.590	1.00	156.03	PS16
ATOM	48533	OD1	ASP	P	68	106.140	66.958	18.136	1.00	156.03	PS16
ATOM	48534	OD2	ASP	P	68	108.016	65.943	18.657	1.00	156.03	PS16
ATOM	48535	C	ASP	P	68	107.903	70.794	18.746	1.00	52.06	PS16
ATOM	48536	O	ASP	P	68	107.033	71.672	18.789	1.00	52.06	PS16
ATOM	48537	N	THR	P	69	109.145	70.994	19.181	1.00	30.42	PS16
ATOM	48538	CA	THR	P	69	109.532	72.278	19.771	1.00	30.42	PS16
ATOM	48539	CB	THR	P	69	111.058	72.395	19.912	1.00	62.31	PS16
ATOM	48540	OG1	THR	P	69	111.524	71.428	20.862	1.00	62.31	PS16
ATOM	48541	CG2	THR	P	69	111.445	73.794	20.370	1.00	62.31	PS16
ATOM	48542	C	THR	P	69	109.043	73.458	18.930	1.00	30.42	PS16
ATOM	48543	O	THR	P	69	108.384	74.362	19.427	1.00	30.42	PS16
ATOM	48544	N	ALA	P	70	109.373	73.446	17.650	1.00	30.68	PS16
ATOM	48545	CA	ALA	P	70	108.954	74.518	16.766	1.00	30.68	PS16

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ATOM  48546  CB  ALA P  70     109.280  74.159  15.324  1.00137.78      PS16
ATOM  48547  C   ALA P  70     107.459  74.766  16.920  1.00 30.68      PS16
ATOM  48548  O   ALA P  70     107.037  75.885  17.216  1.00 30.68      PS16
ATOM  48549  N   ARG P  71     106.664  73.720  16.717  1.00 24.31      PS16
ATOM  48550  CA  ARG P  71     105.217  73.837  16.830  1.00 24.31      PS16
ATOM  48551  CB  ARG P  71     104.565  72.468  16.658  1.00 54.09      PS16
ATOM  48552  CG  ARG P  71     103.410  72.211  17.599  1.00 54.09      PS16
ATOM  48553  CD  ARG P  71     102.765  70.890  17.297  1.00 54.09      PS16
ATOM  48554  NE  ARG P  71     101.901  70.986  16.132  1.00 54.09      PS16
ATOM  48555  CZ  ARG P  71     101.901  70.109  15.136  1.00 54.09      PS16
ATOM  48556  NH1 ARG P  71     102.730  69.069  15.164  1.00 54.09      PS16
ATOM  48557  NH2 ARG P  71     101.067  70.269  14.116  1.00 54.09      PS16
ATOM  48558  C   ARG P  71     104.829  74.430  18.181  1.00 24.31      PS16
ATOM  48559  O   ARG P  71     103.879  75.225  18.289  1.00 24.31      PS16
ATOM  48560  N   ARG P  72     105.570  74.024  19.206  1.00 24.66      PS16
ATOM  48561  CA  ARG P  72     105.345  74.504  20.557  1.00 24.66      PS16
ATOM  48562  CB  ARG P  72     106.446  73.985  21.466  1.00 58.82      PS16
ATOM  48563  CG  ARG P  72     106.449  74.588  22.829  1.00 58.82      PS16
ATOM  48564  CD  ARG P  72     107.670  74.139  23.562  1.00 58.82      PS16
ATOM  48565  NE  ARG P  72     108.103  75.196  24.451  1.00 58.82      PS16
ATOM  48566  CZ  ARG P  72     109.357  75.358  24.838  1.00 58.82      PS16
ATOM  48567  NH1 ARG P  72     110.292  74.512  24.406  1.00 58.82      PS16
ATOM  48568  NH2 ARG P  72     109.674  76.379  25.630  1.00 58.82      PS16
ATOM  48569  C   ARG P  72     105.352  76.023  20.554  1.00 24.66      PS16
ATOM  48570  O   ARG P  72     104.314  76.657  20.758  1.00 24.66      PS16
ATOM  48571  N   LEU P  73     106.536  76.594  20.321  1.00 29.82      PS16
ATOM  48572  CA  LEU P  73     106.721  78.040  20.259  1.00 29.82      PS16
ATOM  48573  CB  LEU P  73     108.106  78.372  19.707  1.00 43.85      PS16
ATOM  48574  CG  LEU P  73     109.325  77.830  20.448  1.00 43.85      PS16
ATOM  48575  CD1 LEU P  73     110.597  78.209  19.702  1.00 43.85      PS16
ATOM  48576  CD2 LEU P  73     109.355  78.391  21.851  1.00 43.85      PS16
ATOM  48577  C   LEU P  73     105.663  78.624  19.335  1.00 29.82      PS16
ATOM  48578  O   LEU P  73     105.037  79.629  19.656  1.00 29.82      PS16
ATOM  48579  N   LEU P  74     105.470  77.998  18.178  1.00 23.20      PS16
ATOM  48580  CA  LEU P  74     104.465  78.485  17.255  1.00 23.20      PS16
ATOM  48581  CB  LEU P  74     104.268  77.535  16.081  1.00 17.74      PS16
ATOM  48582  CG  LEU P  74     105.304  77.632  14.971  1.00 17.74      PS16
ATOM  48583  CD1 LEU P  74     104.773  76.964  13.717  1.00 17.74      PS16
ATOM  48584  CD2 LEU P  74     105.570  79.077  14.679  1.00 17.74      PS16
ATOM  48585  C   LEU P  74     103.169  78.626  18.006  1.00 23.20      PS16
ATOM  48586  O   LEU P  74     102.592  79.701  18.043  1.00 23.20      PS16
ATOM  48587  N   ARG P  75     102.707  77.548  18.621  1.00 37.65      PS16
ATOM  48588  CA  ARG P  75     101.460  77.640  19.370  1.00 37.65      PS16
ATOM  48589  CB  ARG P  75     101.236  76.389  20.222  1.00 65.17      PS16
ATOM  48590  CG  ARG P  75      99.839  76.297  20.830  1.00 65.17      PS16
ATOM  48591  CD  ARG P  75      99.656  74.990  21.581  1.00 65.17      PS16
ATOM  48592  NE  ARG P  75      99.840  73.815  20.728  1.00 65.17      PS16
ATOM  48593  CZ  ARG P  75      98.984  73.423  19.788  1.00 65.17      PS16
ATOM  48594  NH1 ARG P  75      97.872  74.112  19.571  1.00 65.17      PS16
ATOM  48595  NH2 ARG P  75      99.241  72.341  19.064  1.00 65.17      PS16
ATOM  48596  C   ARG P  75     101.495  78.862  20.277  1.00 37.65      PS16
ATOM  48597  O   ARG P  75     100.699  79.788  20.105  1.00 37.65      PS16
ATOM  48598  N   GLN P  76     102.431  78.849  21.227  1.00 47.24      PS16
ATOM  48599  CA  GLN P  76     102.611  79.933  22.189  1.00 47.24      PS16
ATOM  48600  CB  GLN P  76     104.069  79.999  22.635  1.00 63.43      PS16
ATOM  48601  CG  GLN P  76     104.370  81.110  23.622  1.00 63.43      PS16
ATOM  48602  CD  GLN P  76     105.494  80.742  24.581  1.00 63.43      PS16
ATOM  48603  OE1 GLN P  76     106.117  81.609  25.198  1.00 63.43      PS16
ATOM  48604  NE2 GLN P  76     105.749  79.445  24.719  1.00 63.43      PS16
ATOM  48605  C   GLN P  76     102.167  81.279  21.639  1.00 47.24      PS16
ATOM  48606  O   GLN P  76     101.317  81.939  22.221  1.00 47.24      PS16
ATOM  48607  N   ALA P  77     102.732  81.688  20.515  1.00 24.52      PS16
ATOM  48608  CA  ALA P  77     102.340  82.953  19.904  1.00 24.52      PS16
ATOM  48609  CB  ALA P  77     103.447  83.467  19.008  1.00 34.34      PS16
ATOM  48610  C   ALA P  77     101.070  82.725  19.091  1.00 24.52      PS16
ATOM  48611  O   ALA P  77     101.007  83.037  17.911  1.00 24.52      PS16
ATOM  48612  N   GLY P  78     100.070  82.151  19.740  1.00 35.92      PS16
ATOM  48613  CA  GLY P  78      98.798  81.881  19.098  1.00 35.92      PS16
ATOM  48614  C   GLY P  78      98.772  81.562  17.618  1.00 35.92      PS16
ATOM  48615  O   GLY P  78      97.922  82.075  16.889  1.00 35.92      PS16
ATOM  48616  N   VAL P  79      99.680  80.713  17.161  1.00 23.83      PS16
ATOM  48617  CA  VAL P  79      99.688  80.371  15.749  1.00 23.83      PS16
ATOM  48618  CB  VAL P  79     100.955  79.569  15.352  1.00 20.64      PS16
ATOM  48619  CG1 VAL P  79     100.889  79.150  13.903  1.00 20.64      PS16
ATOM  48620  CG2 VAL P  79     102.161  80.403  15.544  1.00 20.64      PS16
ATOM  48621  C   VAL P  79      98.469  79.520  15.423  1.00 23.83      PS16
ATOM  48622  O   VAL P  79      97.994  79.512  14.292  1.00 23.83      PS16
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ATOM  48623  N   PHE P  80      97.950  78.805  16.414  1.00 67.90      PS16
ATOM  48624  CA  PHE P  80      96.818  77.933  16.139  1.00 67.90      PS16
ATOM  48625  CB  PHE P  80      97.156  76.501  16.548  1.00 40.37      PS16
ATOM  48626  CG  PHE P  80      98.514  76.032  16.098  1.00 40.37      PS16
ATOM  48627  CD1 PHE P  80      99.658  76.401  16.803  1.00 40.37      PS16
ATOM  48628  CD2 PHE P  80      98.642  75.178  15.004  1.00 40.37      PS16
ATOM  48629  CE1 PHE P  80     100.909  75.923  16.433  1.00 40.37      PS16
ATOM  48630  CE2 PHE P  80      99.876  74.696  14.624  1.00 40.37      PS16
ATOM  48631  CZ  PHE P  80     101.018  75.069  15.344  1.00 40.37      PS16
ATOM  48632  C   PHE P  80      95.491  78.321  16.776  1.00 67.90      PS16
ATOM  48633  O   PHE P  80      94.430  77.969  16.261  1.00 67.90      PS16
ATOM  48634  N   ARG P  81      95.553  79.026  17.901  1.00 63.52      PS16
ATOM  48635  CA  ARG P  81      94.352  79.457  18.610  1.00 63.52      PS16
ATOM  48636  CB  ARG P  81      94.683  80.609  19.565  1.00128.90      PS16
ATOM  48637  CG  ARG P  81      93.465  81.428  19.956  1.00128.90      PS16
ATOM  48638  CD  ARG P  81      93.780  82.514  20.964  1.00128.90      PS16
ATOM  48639  NE  ARG P  81      93.822  82.011  22.335  1.00128.90      PS16
ATOM  48640  CZ  ARG P  81      94.895  81.487  22.916  1.00128.90      PS16
ATOM  48641  NH1 ARG P  81      96.038  81.392  22.246  1.00128.90      PS16
ATOM  48642  NH2 ARG P  81      94.822  81.059  24.173  1.00128.90      PS16
ATOM  48643  C   ARG P  81      93.218  79.888  17.687  1.00 63.52      PS16
ATOM  48644  O   ARG P  81      93.377  80.808  16.882  1.00 63.52      PS16
ATOM  48645  N   GLN P  82      92.073  79.223  17.830  1.00 88.74      PS16
ATOM  48646  CA  GLN P  82      90.877  79.508  17.037  1.00 88.74      PS16
ATOM  48647  CB  GLN P  82      90.154  78.203  16.696  1.00129.46      PS16
ATOM  48648  CG  GLN P  82      91.037  77.156  16.040  1.00129.46      PS16
ATOM  48649  CD  GLN P  82      90.346  75.813  15.904  1.00129.46      PS16
ATOM  48650  OE1 GLN P  82      89.294  75.707  15.277  1.00129.46      PS16
ATOM  48651  NE2 GLN P  82      90.937  74.777  16.491  1.00129.46      PS16
ATOM  48652  C   GLN P  82      89.939  80.411  17.839  1.00 88.74      PS16
ATOM  48653  O   GLN P  82      89.707  81.564  17.480  1.00 88.74      PS16
ATOM  48654  N   GLU P  83      89.399  79.869  18.926  1.00163.45      PS16
ATOM  48655  CA  GLU P  83      88.494  80.609  19.798  1.00163.45      PS16
ATOM  48656  CB  GLU P  83      89.306  81.499  20.745  1.00139.42      PS16
ATOM  48657  CG  GLU P  83      90.405  80.758  21.498  1.00139.42      PS16
ATOM  48658  CD  GLU P  83      89.873  79.626  22.364  1.00139.42      PS16
ATOM  48659  OE1 GLU P  83      89.157  79.913  23.347  1.00139.42      PS16
ATOM  48660  OE2 GLU P  83      90.168  78.449  22.060  1.00139.42      PS16
ATOM  48661  C   GLU P  83      87.505  81.460  19.004  1.00163.45      PS16
ATOM  48662  O   GLU P  83      87.544  82.698  19.154  1.00163.45      PS16
ATOM  48663  OXT GLU P  83      86.705  80.880  18.240  1.00139.42      PS16
TER   48663       GLU P  83                                              PS16
ATOM  48664  CB  PRO Q   2     111.523  86.862 -22.440  1.00114.17      QS17
ATOM  48665  CG  PRO Q   2     111.426  87.823 -21.269  1.00114.17      QS17
ATOM  48666  C   PRO Q   2     113.204  85.072 -22.745  1.00 37.04      QS17
ATOM  48667  O   PRO Q   2     114.378  85.440 -22.709  1.00 37.04      QS17
ATOM  48668  N   PRO Q   2     112.922  86.159 -20.611  1.00 37.04      QS17
ATOM  48669  CD  PRO Q   2     112.721  87.609 -20.482  1.00114.17      QS17
ATOM  48670  CA  PRO Q   2     112.200  85.667 -21.796  1.00 37.04      QS17
ATOM  48671  N   LYS Q   3     112.752  84.153 -23.592  1.00 29.25      QS17
ATOM  48672  CA  LYS Q   3     113.644  83.533 -24.557  1.00 29.25      QS17
ATOM  48673  CB  LYS Q   3     112.849  82.690 -25.544  1.00 43.99      QS17
ATOM  48674  CG  LYS Q   3     112.365  81.393 -24.967  1.00 43.99      QS17
ATOM  48675  CD  LYS Q   3     111.492  80.662 -25.963  1.00 43.99      QS17
ATOM  48676  CE  LYS Q   3     111.196  79.235 -25.510  1.00 43.99      QS17
ATOM  48677  NZ  LYS Q   3     110.541  79.152 -24.166  1.00 43.99      QS17
ATOM  48678  C   LYS Q   3     114.409  84.620 -25.296  1.00 29.25      QS17
ATOM  48679  O   LYS Q   3     113.805  85.485 -25.927  1.00 29.25      QS17
ATOM  48680  N   LYS Q   4     115.736  84.574 -25.192  1.00 28.01      QS17
ATOM  48681  CA  LYS Q   4     116.629  85.543 -25.832  1.00 28.01      QS17
ATOM  48682  CB  LYS Q   4     118.080  85.195 -25.492  1.00 64.35      QS17
ATOM  48683  CG  LYS Q   4     119.113  86.215 -25.932  1.00 64.35      QS17
ATOM  48684  CD  LYS Q   4     119.076  87.416 -25.023  1.00 64.35      QS17
ATOM  48685  CE  LYS Q   4     120.251  88.337 -25.257  1.00 64.35      QS17
ATOM  48686  NZ  LYS Q   4     120.167  89.525 -24.362  1.00 64.35      QS17
ATOM  48687  C   LYS Q   4     116.473  85.587 -27.356  1.00 28.01      QS17
ATOM  48688  O   LYS Q   4     116.385  84.545 -28.023  1.00 28.01      QS17
ATOM  48689  N   VAL Q   5     116.444  86.795 -27.908  1.00 30.52      QS17
ATOM  48690  CA  VAL Q   5     116.312  86.955 -29.352  1.00 30.52      QS17
ATOM  48691  CB  VAL Q   5     115.020  87.712 -29.724  1.00 29.65      QS17
ATOM  48692  CG1 VAL Q   5     114.714  87.528 -31.197  1.00 29.65      QS17
ATOM  48693  CG2 VAL Q   5     113.870  87.235 -28.869  1.00 29.65      QS17
ATOM  48694  C   VAL Q   5     117.504  87.763 -29.832  1.00 30.52      QS17
ATOM  48695  O   VAL Q   5     117.935  88.691 -29.151  1.00 30.52      QS17
ATOM  48696  N   LEU Q   6     118.043  87.417 -30.993  1.00 29.27      QS17
ATOM  48697  CA  LEU Q   6     119.192  88.148 -31.499  1.00 29.27      QS17
ATOM  48698  CB  LEU Q   6     120.475  87.357 -31.309  1.00 27.39      QS17
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ATOM  48699  CG  LEU Q   6     120.722  86.625 -30.001  1.00 27.39      QS17
ATOM  48700  CD1 LEU Q   6     122.087  85.972 -30.088  1.00 27.39      QS17
ATOM  48701  CD2 LEU Q   6     120.646  87.580 -28.821  1.00 27.39      QS17
ATOM  48702  C   LEU Q   6     119.017  88.362 -32.972  1.00 29.27      QS17
ATOM  48703  O   LEU Q   6     118.271  87.623 -33.612  1.00 29.27      QS17
ATOM  48704  N   THR Q   7     119.712  89.373 -33.504  1.00 27.78      QS17
ATOM  48705  CA  THR Q   7     119.669  89.674 -34.935  1.00 27.78      QS17
ATOM  48706  CB  THR Q   7     119.318  91.125 -35.226  1.00 42.18      QS17
ATOM  48707  OG1 THR Q   7     117.999  91.408 -34.756  1.00 42.18      QS17
ATOM  48708  CG2 THR Q   7     119.353  91.362 -36.704  1.00 42.18      QS17
ATOM  48709  C   THR Q   7     121.036  89.422 -35.512  1.00 27.78      QS17
ATOM  48710  O   THR Q   7     122.039  89.852 -34.956  1.00 27.78      QS17
ATOM  48711  N   GLY Q   8     121.073  88.730 -36.637  1.00 27.23      QS17
ATOM  48712  CA  GLY Q   8     122.351  88.435 -37.246  1.00 27.23      QS17
ATOM  48713  C   GLY Q   8     122.325  88.435 -38.754  1.00 27.23      QS17
ATOM  48714  O   GLY Q   8     121.381  88.937 -39.361  1.00 27.23      QS17
ATOM  48715  N   VAL Q   9     123.369  87.872 -39.353  1.00 25.97      QS17
ATOM  48716  CA  VAL Q   9     123.470  87.808 -40.798  1.00 25.97      QS17
ATOM  48717  CB  VAL Q   9     124.574  88.680 -41.314  1.00 36.09      QS17
ATOM  48718  CG1 VAL Q   9     124.212  89.161 -42.682  1.00 36.09      QS17
ATOM  48719  CG2 VAL Q   9     124.815  89.827 -40.362  1.00 36.09      QS17
ATOM  48720  C   VAL Q   9     123.814  86.402 -41.191  1.00 25.97      QS17
ATOM  48721  O   VAL Q   9     124.777  85.842 -40.676  1.00 25.97      QS17
ATOM  48722  N   VAL Q  10     123.027  85.836 -42.101  1.00 28.24      QS17
ATOM  48723  CA  VAL Q  10     123.244  84.474 -42.564  1.00 28.24      QS17
ATOM  48724  CB  VAL Q  10     122.053  83.984 -43.391  1.00 28.99      QS17
ATOM  48725  CG1 VAL Q  10     122.344  82.614 -43.953  1.00 28.99      QS17
ATOM  48726  CG2 VAL Q  10     120.820  83.932 -42.526  1.00 28.99      QS17
ATOM  48727  C   VAL Q  10     124.492  84.447 -43.422  1.00 28.24      QS17
ATOM  48728  O   VAL Q  10     124.506  84.973 -44.522  1.00 28.24      QS17
ATOM  48729  N   VAL Q  11     125.545  83.830 -42.918  1.00 27.26      QS17
ATOM  48730  CA  VAL Q  11     126.786  83.791 -43.651  1.00 27.26      QS17
ATOM  48731  CB  VAL Q  11     127.933  84.268 -42.772  1.00 11.61      QS17
ATOM  48732  CG1 VAL Q  11     127.672  85.665 -42.308  1.00 11.61      QS17
ATOM  48733  CG2 VAL Q  11     128.060  83.379 -41.564  1.00 11.61      QS17
ATOM  48734  C   VAL Q  11     127.106  82.395 -44.131  1.00 27.26      QS17
ATOM  48735  O   VAL Q  11     128.129  82.182 -44.780  1.00 27.26      QS17
ATOM  48736  N   SER Q  12     126.250  81.430 -43.817  1.00 31.72      QS17
ATOM  48737  CA  SER Q  12     126.515  80.065 -44.237  1.00 31.72      QS17
ATOM  48738  CB  SER Q  12     127.240  79.311 -43.131  1.00 63.75      QS17
ATOM  48739  OG  SER Q  12     127.379  77.944 -43.461  1.00 63.75      QS17
ATOM  48740  C   SER Q  12     125.226  79.357 -44.567  1.00 31.72      QS17
ATOM  48741  O   SER Q  12     124.306  79.351 -43.755  1.00 31.72      QS17
ATOM  48742  N   ASP Q  13     125.165  78.760 -45.757  1.00 73.13      QS17
ATOM  48743  CA  ASP Q  13     123.977  78.043 -46.207  1.00 73.13      QS17
ATOM  48744  CB  ASP Q  13     123.295  78.829 -47.327  1.00166.78      QS17
ATOM  48745  CG  ASP Q  13     121.925  78.285 -47.673  1.00166.78      QS17
ATOM  48746  OD1 ASP Q  13     121.295  78.828 -48.605  1.00166.78      QS17
ATOM  48747  OD2 ASP Q  13     121.474  77.321 -47.016  1.00166.78      QS17
ATOM  48748  C   ASP Q  13     124.343  76.642 -46.706  1.00 73.13      QS17
ATOM  48749  O   ASP Q  13     123.509  75.930 -47.269  1.00 73.13      QS17
ATOM  48750  N   LYS Q  14     125.591  76.246 -46.476  1.00 91.02      QS17
ATOM  48751  CA  LYS Q  14     126.099  74.945 -46.911  1.00 91.02      QS17
ATOM  48752  CB  LYS Q  14     127.627  74.941 -46.806  1.00136.33      QS17
ATOM  48753  CG  LYS Q  14     128.289  76.153 -47.443  1.00136.33      QS17
ATOM  48754  CD  LYS Q  14     129.612  76.477 -46.765  1.00136.33      QS17
ATOM  48755  CE  LYS Q  14     130.044  77.909 -47.060  1.00136.33      QS17
ATOM  48756  NZ  LYS Q  14     131.190  78.355 -46.215  1.00136.33      QS17
ATOM  48757  C   LYS Q  14     125.535  73.740 -46.148  1.00 91.02      QS17
ATOM  48758  O   LYS Q  14     125.881  72.596 -46.446  1.00 91.02      QS17
ATOM  48759  N   MET Q  15     124.672  73.984 -45.169  1.00 53.25      QS17
ATOM  48760  CA  MET Q  15     124.096  72.891 -44.395  1.00 53.25      QS17
ATOM  48761  CB  MET Q  15     124.201  73.177 -42.898  1.00 51.78      QS17
ATOM  48762  CG  MET Q  15     125.600  73.053 -42.324  1.00 51.78      QS17
ATOM  48763  SD  MET Q  15     125.650  73.493 -40.579  1.00 51.78      QS17
ATOM  48764  CE  MET Q  15     125.279  75.252 -40.688  1.00 51.78      QS17
ATOM  48765  C   MET Q  15     122.641  72.626 -44.741  1.00 53.25      QS17
ATOM  48766  O   MET Q  15     122.035  73.350 -45.538  1.00 53.25      QS17
ATOM  48767  N   GLN Q  16     122.090  71.584 -44.119  1.00 55.25      QS17
ATOM  48768  CA  GLN Q  16     120.704  71.173 -44.330  1.00 55.25      QS17
ATOM  48769  CB  GLN Q  16     120.635  69.648 -44.415  1.00 64.16      QS17
ATOM  48770  CG  GLN Q  16     121.179  69.061 -45.710  1.00 64.16      QS17
ATOM  48771  CD  GLN Q  16     121.353  67.554 -45.636  1.00 64.16      QS17
ATOM  48772  OE1 GLN Q  16     121.363  66.861 -46.657  1.00 64.16      QS17
ATOM  48773  NE2 GLN Q  16     121.506  67.042 -44.424  1.00 64.16      QS17
ATOM  48774  C   GLN Q  16     119.766  71.664 -43.224  1.00 55.25      QS17
ATOM  48775  O   GLN Q  16     119.962  71.349 -42.047  1.00 55.25      QS17
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ATOM  48776  N   LYS Q  17     118.742  72.425 -43.608  1.00 30.29      QS17
ATOM  48777  CA  LYS Q  17     117.769  72.960 -42.645  1.00 30.29      QS17
ATOM  48778  CB  LYS Q  17     116.961  71.831 -41.993  1.00 64.81      QS17
ATOM  48779  CG  LYS Q  17     116.132  70.959 -42.924  1.00 64.81      QS17
ATOM  48780  CD  LYS Q  17     115.264  70.005 -42.099  1.00 64.81      QS17
ATOM  48781  CE  LYS Q  17     114.538  68.974 -42.949  1.00 64.81      QS17
ATOM  48782  NZ  LYS Q  17     115.453  67.929 -43.482  1.00 64.81      QS17
ATOM  48783  C   LYS Q  17     118.446  73.753 -41.526  1.00 30.29      QS17
ATOM  48784  O   LYS Q  17     117.910  73.859 -40.419  1.00 30.29      QS17
ATOM  48785  N   THR Q  18     119.620  74.306 -41.810  1.00 42.13      QS17
ATOM  48786  CA  THR Q  18     120.355  75.058 -40.806  1.00 42.13      QS17
ATOM  48787  CB  THR Q  18     121.411  74.155 -40.132  1.00 46.92      QS17
ATOM  48788  OG1 THR Q  18     120.842  72.864 -39.864  1.00 46.92      QS17
ATOM  48789  CG2 THR Q  18     121.888  74.778 -38.824  1.00 46.92      QS17
ATOM  48790  C   THR Q  18     121.056  76.258 -41.439  1.00 42.13      QS17
ATOM  48791  O   THR Q  18     121.303  76.265 -42.645  1.00 42.13      QS17
ATOM  48792  N   VAL Q  19     121.373  77.267 -40.627  1.00 37.41      QS17
ATOM  48793  CA  VAL Q  19     122.058  78.466 -41.118  1.00 37.41      QS17
ATOM  48794  CB  VAL Q  19     121.076  79.519 -41.603  1.00 10.91      QS17
ATOM  48795  CG1 VAL Q  19     120.699  79.237 -43.037  1.00 10.91      QS17
ATOM  48796  CG2 VAL Q  19     119.857  79.530 -40.708  1.00 10.91      QS17
ATOM  48797  C   VAL Q  19     122.948  79.154 -40.103  1.00 37.41      QS17
ATOM  48798  O   VAL Q  19     122.548  79.381 -38.972  1.00 37.41      QS17
ATOM  48799  N   THR Q  20     124.160  79.499 -40.514  1.00 34.09      QS17
ATOM  48800  CA  THR Q  20     125.056  80.176 -39.607  1.00 34.09      QS17
ATOM  48801  CB  THR Q  20     126.503  80.055 -40.026  1.00 42.92      QS17
ATOM  48802  OG1 THR Q  20     126.891  78.677 -40.033  1.00 42.92      QS17
ATOM  48803  CG2 THR Q  20     127.372  80.806 -39.047  1.00 42.92      QS17
ATOM  48804  C   THR Q  20     124.711  81.640 -39.608  1.00 34.09      QS17
ATOM  48805  O   THR Q  20     124.763  82.293 -40.643  1.00 34.09      QS17
ATOM  48806  N   VAL Q  21     124.353  82.158 -38.443  1.00 23.01      QS17
ATOM  48807  CA  VAL Q  21     124.013  83.561 -38.328  1.00 23.01      QS17
ATOM  48808  CB  VAL Q  21     122.671  83.758 -37.661  1.00 11.64      QS17
ATOM  48809  CG1 VAL Q  21     122.296  85.229 -37.735  1.00 11.64      QS17
ATOM  48810  CG2 VAL Q  21     121.621  82.867 -38.326  1.00 11.64      QS17
ATOM  48811  C   VAL Q  21     125.051  84.294 -37.507  1.00 23.01      QS17
ATOM  48812  O   VAL Q  21     125.249  84.012 -36.328  1.00 23.01      QS17
ATOM  48813  N   LEU Q  22     125.723  85.238 -38.141  1.00 41.38      QS17
ATOM  48814  CA  LEU Q  22     126.735  85.985 -37.443  1.00 41.38      QS17
ATOM  48815  CB  LEU Q  22     127.768  86.512 -38.423  1.00 28.46      QS17
ATOM  48816  CG  LEU Q  22     128.797  87.414 -37.754  1.00 28.46      QS17
ATOM  48817  CD1 LEU Q  22     129.247  86.813 -36.456  1.00 28.46      QS17
ATOM  48818  CD2 LEU Q  22     129.963  87.586 -38.667  1.00 28.46      QS17
ATOM  48819  C   LEU Q  22     126.070  87.127 -36.718  1.00 41.38      QS17
ATOM  48820  O   LEU Q  22     125.420  87.963 -37.341  1.00 41.38      QS17
ATOM  48821  N   VAL Q  23     126.251  87.154 -35.400  1.00 33.82      QS17
ATOM  48822  CA  VAL Q  23     125.658  88.169 -34.527  1.00 33.82      QS17
ATOM  48823  CB  VAL Q  23     124.804  87.480 -33.435  1.00 38.74      QS17
ATOM  48824  CG1 VAL Q  23     124.593  88.404 -32.256  1.00 38.74      QS17
ATOM  48825  CG2 VAL Q  23     123.475  87.069 -34.015  1.00 38.74      QS17
ATOM  48826  C   VAL Q  23     126.674  89.088 -33.841  1.00 33.82      QS17
ATOM  48827  O   VAL Q  23     127.512  88.612 -33.072  1.00 33.82      QS17
ATOM  48828  N   GLU Q  24     126.584  90.395 -34.102  1.00 40.58      QS17
ATOM  48829  CA  GLU Q  24     127.501  91.368 -33.492  1.00 40.58      QS17
ATOM  48830  CB  GLU Q  24     127.778  92.535 -34.440  1.00120.16      QS17
ATOM  48831  CG  GLU Q  24     128.560  92.153 -35.680  1.00120.16      QS17
ATOM  48832  CD  GLU Q  24     129.275  93.338 -36.301  1.00120.16      QS17
ATOM  48833  OE1 GLU Q  24     128.609  94.345 -36.625  1.00120.16      QS17
ATOM  48834  OE2 GLU Q  24     130.511  93.262 -36.466  1.00120.16      QS17
ATOM  48835  C   GLU Q  24     126.976  91.903 -32.163  1.00 40.58      QS17
ATOM  48836  O   GLU Q  24     125.769  91.923 -31.924  1.00 40.58      QS17
ATOM  48837  N   ARG Q  25     127.892  92.362 -31.313  1.00 21.77      QS17
ATOM  48838  CA  ARG Q  25     127.531  92.839 -29.982  1.00 21.77      QS17
ATOM  48839  CB  ARG Q  25     127.651  91.669 -28.998  1.00 37.12      QS17
ATOM  48840  CG  ARG Q  25     127.755  92.084 -27.534  1.00 37.12      QS17
ATOM  48841  CD  ARG Q  25     127.659  90.899 -26.581  1.00 37.12      QS17
ATOM  48842  NE  ARG Q  25     128.783  89.981 -26.697  1.00 37.12      QS17
ATOM  48843  CZ  ARG Q  25     129.845  90.003 -25.899  1.00 37.12      QS17
ATOM  48844  NH1 ARG Q  25     129.932  90.902 -24.922  1.00 37.12      QS17
ATOM  48845  NH2 ARG Q  25     130.819  89.116 -26.073  1.00 37.12      QS17
ATOM  48846  C   ARG Q  25     128.407  93.973 -29.493  1.00 21.77      QS17
ATOM  48847  O   ARG Q  25     129.518  93.726 -29.081  1.00 21.77      QS17
ATOM  48848  N   GLN Q  26     127.940  95.213 -29.516  1.00 27.26      QS17
ATOM  48849  CA  GLN Q  26     128.797  96.296 -29.029  1.00 27.26      QS17
ATOM  48850  CB  GLN Q  26     128.336  97.649 -29.556  1.00 91.07      QS17
ATOM  48851  CG  GLN Q  26     128.680  97.881 -30.997  1.00 91.07      QS17
ATOM  48852  CD  GLN Q  26     128.284  99.257 -31.459  1.00 91.07      QS17
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ATOM  48853  OE1 GLN Q  26     127.119  99.642 -31.367  1.00 91.07       QS17
ATOM  48854  NE2 GLN Q  26     129.253 100.014 -31.962  1.00 91.07       QS17
ATOM  48855  C   GLN Q  26     128.760  96.317 -27.520  1.00 27.26       QS17
ATOM  48856  O   GLN Q  26     127.899  95.691 -26.920  1.00 27.26       QS17
ATOM  48857  N   PHE Q  27     129.703  97.022 -26.908  1.00 33.42       QS17
ATOM  48858  CA  PHE Q  27     129.756  97.154 -25.457  1.00 33.42       QS17
ATOM  48859  CB  PHE Q  27     129.555  95.808 -24.770  1.00 15.07       QS17
ATOM  48860  CG  PHE Q  27     130.779  94.971 -24.704  1.00 15.07       QS17
ATOM  48861  CD1 PHE Q  27     131.754  95.217 -23.740  1.00 15.07       QS17
ATOM  48862  CD2 PHE Q  27     130.956  93.911 -25.588  1.00 15.07       QS17
ATOM  48863  CE1 PHE Q  27     132.902  94.405 -23.654  1.00 15.07       QS17
ATOM  48864  CE2 PHE Q  27     132.100  93.084 -25.518  1.00 15.07       QS17
ATOM  48865  CZ  PHE Q  27     133.077  93.330 -24.551  1.00 15.07       QS17
ATOM  48866  C   PHE Q  27     131.064  97.774 -24.999  1.00 33.42       QS17
ATOM  48867  O   PHE Q  27     132.103  97.635 -25.647  1.00 33.42       QS17
ATOM  48868  N   PRO Q  28     131.023  98.468 -23.859  1.00 30.81       QS17
ATOM  48869  CD  PRO Q  28     129.833  98.625 -23.011  1.00 54.46       QS17
ATOM  48870  CA  PRO Q  28     132.165  99.145 -23.253  1.00 30.81       QS17
ATOM  48871  CB  PRO Q  28     131.511 100.033 -22.221  1.00 54.46       QS17
ATOM  48872  CG  PRO Q  28     130.435  99.145 -21.724  1.00 54.46       QS17
ATOM  48873  C   PRO Q  28     133.110  98.170 -22.612  1.00 30.81       QS17
ATOM  48874  O   PRO Q  28     132.680  97.248 -21.922  1.00 30.81       QS17
ATOM  48875  N   HIS Q  29     134.399  98.384 -22.845  1.00 16.37       QS17
ATOM  48876  CA  HIS Q  29     135.433  97.540 -22.275  1.00 16.37       QS17
ATOM  48877  CB  HIS Q  29     136.771  97.855 -22.936  1.00 33.04       QS17
ATOM  48878  CG  HIS Q  29     137.909  97.055 -22.395  1.00 33.04       QS17
ATOM  48879  CD2 HIS Q  29     138.682  96.106 -22.970  1.00 33.04       QS17
ATOM  48880  ND1 HIS Q  29     138.338  97.165 -21.090  1.00 33.04       QS17
ATOM  48881  CE1 HIS Q  29     139.325  96.314 -20.885  1.00 33.04       QS17
ATOM  48882  NE2 HIS Q  29     139.553  95.659 -22.009  1.00 33.04       QS17
ATOM  48883  C   HIS Q  29     135.490  97.830 -20.774  1.00 16.37       QS17
ATOM  48884  O   HIS Q  29     135.631  98.977 -20.360  1.00 16.37       QS17
ATOM  48885  N   PRO Q  30     135.399  96.785 -19.947  1.00 25.35       QS17
ATOM  48886  CD  PRO Q  30     135.645  95.416 -20.402  1.00 42.33       QS17
ATOM  48887  CA  PRO Q  30     135.417  96.819 -18.491  1.00 25.35       QS17
ATOM  48888  CB  PRO Q  30     135.480  95.352 -18.125  1.00 42.33       QS17
ATOM  48889  CG  PRO Q  30     136.299  94.810 -19.188  1.00 42.33       QS17
ATOM  48890  C   PRO Q  30     136.504  97.630 -17.797  1.00 25.35       QS17
ATOM  48891  O   PRO Q  30     136.266  98.156 -16.706  1.00 25.35       QS17
ATOM  48892  N   LEU Q  31     137.698  97.741 -18.361  1.00 49.65       QS17
ATOM  48893  CA  LEU Q  31     138.673  98.555 -17.653  1.00 49.65       QS17
ATOM  48894  CB  LEU Q  31     139.935  97.756 -17.317  1.00 39.80       QS17
ATOM  48895  CG  LEU Q  31     141.043  98.562 -16.599  1.00 39.80       QS17
ATOM  48896  CD1 LEU Q  31     140.470  99.392 -15.441  1.00 39.80       QS17
ATOM  48897  CD2 LEU Q  31     142.116  97.616 -16.095  1.00 39.80       QS17
ATOM  48898  C   LEU Q  31     139.050  99.817 -18.410  1.00 49.65       QS17
ATOM  48899  O   LEU Q  31     139.287 100.867 -17.807  1.00 49.65       QS17
ATOM  48900  N   TYR Q  32     139.077  99.723 -19.731  1.00 31.58       QS17
ATOM  48901  CA  TYR Q  32     139.466 100.854 -20.545  1.00 31.58       QS17
ATOM  48902  CB  TYR Q  32     140.414 100.360 -21.630  1.00 40.60       QS17
ATOM  48903  CG  TYR Q  32     141.615  99.690 -21.018  1.00 40.60       QS17
ATOM  48904  CD1 TYR Q  32     142.264  98.631 -21.653  1.00 40.60       QS17
ATOM  48905  CE1 TYR Q  32     143.334  97.977 -21.045  1.00 40.60       QS17
ATOM  48906  CD2 TYR Q  32     142.070 100.085 -19.769  1.00 40.60       QS17
ATOM  48907  CE2 TYR Q  32     143.130  99.445 -19.156  1.00 40.60       QS17
ATOM  48908  CZ  TYR Q  32     143.760  98.392 -19.788  1.00 40.60       QS17
ATOM  48909  OH  TYR Q  32     144.797  97.762 -19.127  1.00 40.60       QS17
ATOM  48910  C   TYR Q  32     138.273 101.581 -21.118  1.00 31.58       QS17
ATOM  48911  O   TYR Q  32     138.410 102.589 -21.810  1.00 31.58       QS17
ATOM  48912  N   GLY Q  33     137.091 101.066 -20.826  1.00 20.85       QS17
ATOM  48913  CA  GLY Q  33     135.893 101.727 -21.293  1.00 20.85       QS17
ATOM  48914  C   GLY Q  33     135.616 101.817 -22.780  1.00 20.85       QS17
ATOM  48915  O   GLY Q  33     134.449 101.812 -23.176  1.00 20.85       QS17
ATOM  48916  N   LYS Q  34     136.642 101.921 -23.617  1.00 18.63       QS17
ATOM  48917  CA  LYS Q  34     136.379 102.003 -25.047  1.00 18.63       QS17
ATOM  48918  CB  LYS Q  34     137.652 101.685 -25.832  1.00 45.58       QS17
ATOM  48919  CG  LYS Q  34     137.383 101.355 -27.279  1.00 45.58       QS17
ATOM  48920  CD  LYS Q  34     138.598 101.549 -28.154  1.00 45.58       QS17
ATOM  48921  CE  LYS Q  34     138.245 101.239 -29.604  1.00 45.58       QS17
ATOM  48922  NZ  LYS Q  34     139.289 101.706 -30.561  1.00 45.58       QS17
ATOM  48923  C   LYS Q  34     135.269 101.006 -25.403  1.00 18.63       QS17
ATOM  48924  O   LYS Q  34     135.248  99.900 -24.873  1.00 18.63       QS17
ATOM  48925  N   VAL Q  35     134.321 101.401 -26.250  1.00 12.96       QS17
ATOM  48926  CA  VAL Q  35     133.258 100.478 -26.659  1.00 12.96       QS17
ATOM  48927  CB  VAL Q  35     132.092 101.174 -27.347  1.00  5.02       QS17
ATOM  48928  CG1 VAL Q  35     131.145 100.149 -27.903  1.00  5.02       QS17
ATOM  48929  CG2 VAL Q  35     131.365 102.043 -26.376  1.00  5.02       QS17
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ATOM  48930  C   VAL Q  35     133.848  99.545 -27.689  1.00 12.96      QS17
ATOM  48931  O   VAL Q  35     134.343  99.983 -28.720  1.00 12.96      QS17
ATOM  48932  N   ILE Q  36     133.788  98.252 -27.438  1.00 14.87      QS17
ATOM  48933  CA  ILE Q  36     134.370  97.334 -28.392  1.00 14.87      QS17
ATOM  48934  CB  ILE Q  36     135.338  96.370 -27.678  1.00 18.40      QS17
ATOM  48935  CG2 ILE Q  36     136.451  97.165 -26.997  1.00 18.40      QS17
ATOM  48936  CG1 ILE Q  36     134.590  95.579 -26.613  1.00 18.40      QS17
ATOM  48937  CD1 ILE Q  36     135.489  94.997 -25.544  1.00 18.40      QS17
ATOM  48938  C   ILE Q  36     133.269  96.575 -29.081  1.00 14.87      QS17
ATOM  48939  O   ILE Q  36     132.257  96.274 -28.471  1.00 14.87      QS17
ATOM  48940  N   LYS Q  37     133.441  96.318 -30.370  1.00 33.65      QS17
ATOM  48941  CA  LYS Q  37     132.453  95.555 -31.105  1.00 33.65      QS17
ATOM  48942  CB  LYS Q  37     132.493  95.900 -32.583  1.00103.19      QS17
ATOM  48943  CG  LYS Q  37     131.416  95.220 -33.394  1.00103.19      QS17
ATOM  48944  CD  LYS Q  37     131.538  95.584 -34.867  1.00103.19      QS17
ATOM  48945  CE  LYS Q  37     131.456  97.094 -35.091  1.00103.19      QS17
ATOM  48946  NZ  LYS Q  37     131.688  97.476 -36.518  1.00103.19      QS17
ATOM  48947  C   LYS Q  37     132.989  94.163 -30.882  1.00 33.65      QS17
ATOM  48948  O   LYS Q  37     134.151  94.015 -30.518  1.00 33.65      QS17
ATOM  48949  N   ARG Q  38     132.165  93.147 -31.078  1.00 36.56      QS17
ATOM  48950  CA  ARG Q  38     132.603  91.772 -30.868  1.00 36.56      QS17
ATOM  48951  CB  ARG Q  38     132.745  91.495 -29.381  1.00 63.04      QS17
ATOM  48952  CG  ARG Q  38     133.512  90.243 -29.093  1.00 63.04      QS17
ATOM  48953  CD  ARG Q  38     134.859  90.547 -28.450  1.00 63.04      QS17
ATOM  48954  NE  ARG Q  38     135.650  91.508 -29.214  1.00 63.04      QS17
ATOM  48955  CZ  ARG Q  38     136.787  92.034 -28.772  1.00 63.04      QS17
ATOM  48956  NH1 ARG Q  38     137.247  91.677 -27.578  1.00 63.04      QS17
ATOM  48957  NH2 ARG Q  38     137.452  92.920 -29.505  1.00 63.04      QS17
ATOM  48958  C   ARG Q  38     131.518  90.897 -31.462  1.00 36.56      QS17
ATOM  48959  O   ARG Q  38     130.426  91.388 -31.738  1.00 36.56      QS17
ATOM  48960  N   SER Q  39     131.775  89.610 -31.649  1.00 55.66      QS17
ATOM  48961  CA  SER Q  39     130.741  88.794 -32.263  1.00 55.66      QS17
ATOM  48962  CB  SER Q  39     130.772  89.040 -33.749  1.00 18.79      QS17
ATOM  48963  OG  SER Q  39     132.105  89.214 -34.159  1.00 18.79      QS17
ATOM  48964  C   SER Q  39     130.706  87.298 -32.009  1.00 55.66      QS17
ATOM  48965  O   SER Q  39     131.534  86.756 -31.269  1.00 55.66      QS17
ATOM  48966  N   LYS Q  40     129.740  86.637 -32.655  1.00 33.45      QS17
ATOM  48967  CA  LYS Q  40     129.530  85.204 -32.486  1.00 33.45      QS17
ATOM  48968  CB  LYS Q  40     128.898  84.989 -31.125  1.00 30.20      QS17
ATOM  48969  CG  LYS Q  40     128.634  83.573 -30.741  1.00 30.20      QS17
ATOM  48970  CD  LYS Q  40     128.192  83.581 -29.301  1.00 30.20      QS17
ATOM  48971  CE  LYS Q  40     128.031  82.205 -28.747  1.00 30.20      QS17
ATOM  48972  NZ  LYS Q  40     127.935  82.295 -27.273  1.00 30.20      QS17
ATOM  48973  C   LYS Q  40     128.646  84.568 -33.559  1.00 33.45      QS17
ATOM  48974  O   LYS Q  40     127.661  85.160 -34.003  1.00 33.45      QS17
ATOM  48975  N   LYS Q  41     129.000  83.358 -33.973  1.00 33.57      QS17
ATOM  48976  CA  LYS Q  41     128.216  82.652 -34.973  1.00 33.57      QS17
ATOM  48977  CB  LYS Q  41     129.101  81.852 -35.923  1.00 27.41      QS17
ATOM  48978  CG  LYS Q  41     129.704  82.672 -37.023  1.00 27.41      QS17
ATOM  48979  CD  LYS Q  41     130.490  81.827 -38.005  1.00 27.41      QS17
ATOM  48980  CE  LYS Q  41     131.741  81.267 -37.391  1.00 27.41      QS17
ATOM  48981  NZ  LYS Q  41     132.513  80.491 -38.394  1.00 27.41      QS17
ATOM  48982  C   LYS Q  41     127.269  81.693 -34.299  1.00 33.57      QS17
ATOM  48983  O   LYS Q  41     127.626  81.008 -33.338  1.00 33.57      QS17
ATOM  48984  N   TYR Q  42     126.056  81.638 -34.823  1.00 29.22      QS17
ATOM  48985  CA  TYR Q  42     125.050  80.747 -34.296  1.00 29.22      QS17
ATOM  48986  CB  TYR Q  42     123.933  81.561 -33.673  1.00 20.19      QS17
ATOM  48987  CG  TYR Q  42     124.296  82.222 -32.384  1.00 20.19      QS17
ATOM  48988  CD1 TYR Q  42     124.496  83.582 -32.314  1.00 20.19      QS17
ATOM  48989  CE1 TYR Q  42     124.778  84.197 -31.111  1.00 20.19      QS17
ATOM  48990  CD2 TYR Q  42     124.392  81.480 -31.218  1.00 20.19      QS17
ATOM  48991  CE2 TYR Q  42     124.677  82.072 -30.001  1.00 20.19      QS17
ATOM  48992  CZ  TYR Q  42     124.870  83.434 -29.950  1.00 20.19      QS17
ATOM  48993  OH  TYR Q  42     125.168  84.026 -28.735  1.00 20.19      QS17
ATOM  48994  C   TYR Q  42     124.487  79.879 -35.417  1.00 29.22      QS17
ATOM  48995  O   TYR Q  42     124.243  80.361 -36.517  1.00 29.22      QS17
ATOM  48996  N   LEU Q  43     124.305  78.593 -35.149  1.00 34.41      QS17
ATOM  48997  CA  LEU Q  43     123.728  77.707 -36.145  1.00 34.41      QS17
ATOM  48998  CB  LEU Q  43     124.258  76.289 -35.984  1.00 18.40      QS17
ATOM  48999  CG  LEU Q  43     125.732  76.091 -36.316  1.00 18.40      QS17
ATOM  49000  CD1 LEU Q  43     126.035  74.612 -36.431  1.00 18.40      QS17
ATOM  49001  CD2 LEU Q  43     126.039  76.781 -37.642  1.00 18.40      QS17
ATOM  49002  C   LEU Q  43     122.239  77.729 -35.875  1.00 34.41      QS17
ATOM  49003  O   LEU Q  43     121.768  77.136 -34.907  1.00 34.41      QS17
ATOM  49004  N   ALA Q  44     121.497  78.440 -36.709  1.00 34.65      QS17
ATOM  49005  CA  ALA Q  44     120.057  78.538 -36.524  1.00 34.65      QS17
ATOM  49006  CB  ALA Q  44     119.559  79.922 -36.903  1.00 50.47      QS17
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ATOM  49007  C   ALA Q  44     119.365  77.500 -37.363  1.00 34.65      QS17
ATOM  49008  O   ALA Q  44     119.791  77.180 -38.474  1.00 34.65      QS17
ATOM  49009  N   HIS Q  45     118.279  76.983 -36.822  1.00 19.13      QS17
ATOM  49010  CA  HIS Q  45     117.523  75.968 -37.505  1.00 19.13      QS17
ATOM  49011  CB  HIS Q  45     116.732  75.170 -36.492  1.00 38.33      QS17
ATOM  49012  CG  HIS Q  45     115.836  74.156 -37.108  1.00 38.33      QS17
ATOM  49013  CD2 HIS Q  45     114.536  73.861 -36.881  1.00 38.33      QS17
ATOM  49014  ND1 HIS Q  45     116.264  73.296 -38.094  1.00 38.33      QS17
ATOM  49015  CE1 HIS Q  45     115.263  72.511 -38.449  1.00 38.33      QS17
ATOM  49016  NE2 HIS Q  45     114.203  72.834 -37.729  1.00 38.33      QS17
ATOM  49017  C   HIS Q  45     116.580  76.561 -38.522  1.00 19.13      QS17
ATOM  49018  O   HIS Q  45     115.651  77.264 -38.155  1.00 19.13      QS17
ATOM  49019  N   ASP Q  46     116.817  76.280 -39.798  1.00 53.62      QS17
ATOM  49020  CA  ASP Q  46     115.952  76.784 -40.862  1.00 53.62      QS17
ATOM  49021  CB  ASP Q  46     116.771  77.520 -41.914  1.00 74.28      QS17
ATOM  49022  CG  ASP Q  46     115.920  78.027 -43.048  1.00 74.28      QS17
ATOM  49023  OD1 ASP Q  46     116.494  78.561 -44.022  1.00 74.28      QS17
ATOM  49024  OD2 ASP Q  46     114.678  77.886 -42.955  1.00 74.28      QS17
ATOM  49025  C   ASP Q  46     115.235  75.604 -41.510  1.00 53.62      QS17
ATOM  49026  O   ASP Q  46     115.682  75.078 -42.526  1.00 53.62      QS17
ATOM  49027  N   PRO Q  47     114.094  75.190 -40.937  1.00 61.45      QS17
ATOM  49028  CD  PRO Q  47     113.394  75.873 -39.834  1.00 61.87      QS17
ATOM  49029  CA  PRO Q  47     113.295  74.066 -41.425  1.00 61.45      QS17
ATOM  49030  CB  PRO Q  47     112.044  74.125 -40.551  1.00 61.87      QS17
ATOM  49031  CG  PRO Q  47     112.518  74.779 -39.300  1.00 61.87      QS17
ATOM  49032  C   PRO Q  47     112.949  74.081 -42.903  1.00 61.45      QS17
ATOM  49033  O   PRO Q  47     112.957  73.035 -43.551  1.00 61.45      QS17
ATOM  49034  N   GLU Q  48     112.649  75.261 -43.436  1.00 65.75      QS17
ATOM  49035  CA  GLU Q  48     112.260  75.378 -44.835  1.00 65.75      QS17
ATOM  49036  CB  GLU Q  48     110.981  76.219 -44.942  1.00156.15      QS17
ATOM  49037  CG  GLU Q  48     109.812  75.706 -44.102  1.00156.15      QS17
ATOM  49038  CD  GLU Q  48     108.643  76.682 -44.051  1.00156.15      QS17
ATOM  49039  OE1 GLU Q  48     108.839  77.825 -43.587  1.00156.15      QS17
ATOM  49040  OE2 GLU Q  48     107.527  76.305 -44.471  1.00156.15      QS17
ATOM  49041  C   GLU Q  48     113.336  75.991 -45.723  1.00 65.75      QS17
ATOM  49042  O   GLU Q  48     113.015  76.541 -46.777  1.00 65.75      QS17
ATOM  49043  N   GLU Q  49     114.602  75.886 -45.319  1.00 71.92      QS17
ATOM  49044  CA  GLU Q  49     115.701  76.476 -46.088  1.00 71.92      QS17
ATOM  49045  CB  GLU Q  49     116.209  75.495 -47.158  1.00119.12      QS17
ATOM  49046  CG  GLU Q  49     117.277  74.497 -46.664  1.00119.12      QS17
ATOM  49047  CD  GLU Q  49     118.666  75.127 -46.473  1.00119.12      QS17
ATOM  49048  OE1 GLU Q  49     118.782  76.129 -45.731  1.00119.12      QS17
ATOM  49049  OE2 GLU Q  49     119.647  74.615 -47.062  1.00119.12      QS17
ATOM  49050  C   GLU Q  49     115.217  77.784 -46.728  1.00 71.92      QS17
ATOM  49051  O   GLU Q  49     115.586  78.130 -47.852  1.00 71.92      QS17
ATOM  49052  N   LYS Q  50     114.384  78.497 -45.973  1.00 48.85      QS17
ATOM  49053  CA  LYS Q  50     113.788  79.759 -46.378  1.00 48.85      QS17
ATOM  49054  CB  LYS Q  50     112.640  80.118 -45.426  1.00117.48      QS17
ATOM  49055  CG  LYS Q  50     112.115  81.539 -45.586  1.00117.48      QS17
ATOM  49056  CD  LYS Q  50     110.925  81.828 -44.678  1.00117.48      QS17
ATOM  49057  CE  LYS Q  50     110.413  83.252 -44.894  1.00117.48      QS17
ATOM  49058  NZ  LYS Q  50     109.198  83.574 -44.093  1.00117.48      QS17
ATOM  49059  C   LYS Q  50     114.780  80.907 -46.410  1.00 48.85      QS17
ATOM  49060  O   LYS Q  50     114.607  81.865 -47.164  1.00 48.85      QS17
ATOM  49061  N   TYR Q  51     115.821  80.825 -45.594  1.00 50.59      QS17
ATOM  49062  CA  TYR Q  51     116.793  81.905 -45.554  1.00 50.59      QS17
ATOM  49063  CB  TYR Q  51     117.188  82.193 -44.113  1.00 43.87      QS17
ATOM  49064  CG  TYR Q  51     115.979  82.380 -43.241  1.00 43.87      QS17
ATOM  49065  CD1 TYR Q  51     115.459  81.321 -42.509  1.00 43.87      QS17
ATOM  49066  CE1 TYR Q  51     114.303  81.467 -41.768  1.00 43.87      QS17
ATOM  49067  CD2 TYR Q  51     115.313  83.596 -43.208  1.00 43.87      QS17
ATOM  49068  CE2 TYR Q  51     114.155  83.757 -42.472  1.00 43.87      QS17
ATOM  49069  CZ  TYR Q  51     113.650  82.692 -41.751  1.00 43.87      QS17
ATOM  49070  OH  TYR Q  51     112.496  82.854 -41.007  1.00 43.87      QS17
ATOM  49071  C   TYR Q  51     118.011  81.621 -46.389  1.00 50.59      QS17
ATOM  49072  O   TYR Q  51     118.432  80.472 -46.519  1.00 50.59      QS17
ATOM  49073  N   LYS Q  52     118.566  82.690 -46.953  1.00 38.25      QS17
ATOM  49074  CA  LYS Q  52     119.739  82.592 -47.810  1.00 38.25      QS17
ATOM  49075  CB  LYS Q  52     119.337  82.921 -49.247  1.00201.26      QS17
ATOM  49076  CG  LYS Q  52     118.111  82.151 -49.713  1.00201.26      QS17
ATOM  49077  CD  LYS Q  52     117.611  82.641 -51.059  1.00201.26      QS17
ATOM  49078  CE  LYS Q  52     116.327  81.927 -51.452  1.00201.26      QS17
ATOM  49079  NZ  LYS Q  52     115.782  82.423 -52.746  1.00201.26      QS17
ATOM  49080  C   LYS Q  52     120.857  83.519 -47.355  1.00 38.25      QS17
ATOM  49081  O   LYS Q  52     120.665  84.353 -46.471  1.00 38.25      QS17
ATOM  49082  N   LEU Q  53     122.030  83.357 -47.954  1.00 35.49      QS17
ATOM  49083  CA  LEU Q  53     123.174  84.192 -47.624  1.00 35.49      QS17
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ATOM  49084  CB  LEU Q  53     124.313  83.932 -48.601  1.00 58.67      QS17
ATOM  49085  CG  LEU Q  53     125.616  83.376 -48.033  1.00 58.67      QS17
ATOM  49086  CD1 LEU Q  53     126.082  84.264 -46.896  1.00 58.67      QS17
ATOM  49087  CD2 LEU Q  53     125.414  81.947 -47.554  1.00 58.67      QS17
ATOM  49088  C   LEU Q  53     122.766  85.656 -47.726  1.00 35.49      QS17
ATOM  49089  O   LEU Q  53     121.879  85.999 -48.507  1.00 35.49      QS17
ATOM  49090  N   GLY Q  54     123.407  86.520 -46.944  1.00 35.93      QS17
ATOM  49091  CA  GLY Q  54     123.082  87.934 -46.999  1.00 35.93      QS17
ATOM  49092  C   GLY Q  54     121.859  88.382 -46.213  1.00 35.93      QS17
ATOM  49093  O   GLY Q  54     121.728  89.573 -45.909  1.00 35.93      QS17
ATOM  49094  N   ASP Q  55     120.963  87.453 -45.878  1.00 59.63      QS17
ATOM  49095  CA  ASP Q  55     119.766  87.801 -45.112  1.00 59.63      QS17
ATOM  49096  CB  ASP Q  55     118.741  86.667 -45.141  1.00 81.87      QS17
ATOM  49097  CG  ASP Q  55     118.263  86.349 -46.531  1.00 81.87      QS17
ATOM  49098  OD1 ASP Q  55     118.205  87.283 -47.360  1.00 81.87      QS17
ATOM  49099  OD2 ASP Q  55     117.932  85.168 -46.785  1.00 81.87      QS17
ATOM  49100  C   ASP Q  55     120.069  88.123 -43.653  1.00 59.63      QS17
ATOM  49101  O   ASP Q  55     120.906  87.493 -43.011  1.00 59.63      QS17
ATOM  49102  N   VAL Q  56     119.368  89.115 -43.135  1.00 30.58      QS17
ATOM  49103  CA  VAL Q  56     119.518  89.520 -41.750  1.00 30.58      QS17
ATOM  49104  CB  VAL Q  56     119.446  91.038 -41.634  1.00 14.44      QS17
ATOM  49105  CG1 VAL Q  56     119.377  91.455 -40.189  1.00 14.44      QS17
ATOM  49106  CG2 VAL Q  56     120.651  91.637 -42.307  1.00 14.44      QS17
ATOM  49107  C   VAL Q  56     118.346  88.909 -41.017  1.00 30.58      QS17
ATOM  49108  O   VAL Q  56     117.212  89.086 -41.420  1.00 30.58      QS17
ATOM  49109  N   VAL Q  57     118.577  88.203 -39.931  1.00 32.54      QS17
ATOM  49110  CA  VAL Q  57     117.429  87.600 -39.291  1.00 32.54      QS17
ATOM  49111  CB  VAL Q  57     117.353  86.115 -39.674  1.00 14.35      QS17
ATOM  49112  CG1 VAL Q  57     117.308  85.968 -41.158  1.00 14.35      QS17
ATOM  49113  CG2 VAL Q  57     118.572  85.386 -39.146  1.00 14.35      QS17
ATOM  49114  C   VAL Q  57     117.394  87.696 -37.778  1.00 32.54      QS17
ATOM  49115  O   VAL Q  57     118.427  87.872 -37.130  1.00 32.54      QS17
ATOM  49116  N   GLU Q  58     116.194  87.606 -37.215  1.00 27.39      QS17
ATOM  49117  CA  GLU Q  58     116.070  87.593 -35.771  1.00 27.39      QS17
ATOM  49118  CB  GLU Q  58     114.701  88.090 -35.307  1.00102.43      QS17
ATOM  49119  CG  GLU Q  58     114.452  89.556 -35.606  1.00102.43      QS17
ATOM  49120  CD  GLU Q  58     113.473  90.204 -34.637  1.00102.43      QS17
ATOM  49121  OE1 GLU Q  58     112.382  89.637 -34.403  1.00102.43      QS17
ATOM  49122  OE2 GLU Q  58     113.796  91.293 -34.113  1.00102.43      QS17
ATOM  49123  C   GLU Q  58     116.246  86.106 -35.449  1.00 27.39      QS17
ATOM  49124  O   GLU Q  58     115.823  85.225 -36.200  1.00 27.39      QS17
ATOM  49125  N   ILE Q  59     116.904  85.824 -34.343  1.00 26.38      QS17
ATOM  49126  CA  ILE Q  59     117.164  84.462 -33.947  1.00 26.38      QS17
ATOM  49127  CB  ILE Q  59     118.715  84.255 -33.862  1.00 38.28      QS17
ATOM  49128  CG2 ILE Q  59     119.143  83.615 -32.589  1.00 38.28      QS17
ATOM  49129  CG1 ILE Q  59     119.163  83.433 -35.051  1.00 38.28      QS17
ATOM  49130  CD1 ILE Q  59     118.044  82.605 -35.637  1.00 38.28      QS17
ATOM  49131  C   ILE Q  59     116.463  84.351 -32.620  1.00 26.38      QS17
ATOM  49132  O   ILE Q  59     116.339  85.351 -31.908  1.00 26.38      QS17
ATOM  49133  N   ILE Q  60     115.977  83.162 -32.286  1.00 21.84      QS17
ATOM  49134  CA  ILE Q  60     115.268  82.996 -31.017  1.00 21.84      QS17
ATOM  49135  CB  ILE Q  60     113.751  82.815 -31.285  1.00 38.83      QS17
ATOM  49136  CG2 ILE Q  60     113.438  81.350 -31.513  1.00 38.83      QS17
ATOM  49137  CG1 ILE Q  60     112.927  83.415 -30.141  1.00 38.83      QS17
ATOM  49138  CD1 ILE Q  60     113.203  82.822 -28.785  1.00 38.83      QS17
ATOM  49139  C   ILE Q  60     115.797  81.813 -30.202  1.00 21.84      QS17
ATOM  49140  O   ILE Q  60     116.041  80.731 -30.760  1.00 21.84      QS17
ATOM  49141  N   GLU Q  61     115.990  82.025 -28.895  1.00 15.78      QS17
ATOM  49142  CA  GLU Q  61     116.482  80.961 -28.012  1.00 15.78      QS17
ATOM  49143  CB  GLU Q  61     116.536  81.429 -26.561  1.00 47.49      QS17
ATOM  49144  CG  GLU Q  61     116.924  80.314 -25.618  1.00 47.49      QS17
ATOM  49145  CD  GLU Q  61     117.055  80.744 -24.157  1.00 47.49      QS17
ATOM  49146  OE1 GLU Q  61     117.312  79.842 -23.321  1.00 47.49      QS17
ATOM  49147  OE2 GLU Q  61     116.909  81.954 -23.842  1.00 47.49      QS17
ATOM  49148  C   GLU Q  61     115.504  79.813 -28.146  1.00 15.78      QS17
ATOM  49149  O   GLU Q  61     114.312  80.000 -27.972  1.00 15.78      QS17
ATOM  49150  N   SER Q  62     115.977  78.622 -28.461  1.00 43.97      QS17
ATOM  49151  CA  SER Q  62     115.035  77.532 -28.643  1.00 43.97      QS17
ATOM  49152  CB  SER Q  62     114.924  77.205 -30.135  1.00 40.41      QS17
ATOM  49153  OG  SER Q  62     114.608  78.361 -30.892  1.00 40.41      QS17
ATOM  49154  C   SER Q  62     115.385  76.268 -27.880  1.00 43.97      QS17
ATOM  49155  O   SER Q  62     116.260  76.266 -27.015  1.00 43.97      QS17
ATOM  49156  N   ARG Q  63     114.677  75.191 -28.207  1.00 30.41      QS17
ATOM  49157  CA  ARG Q  63     114.922  73.897 -27.597  1.00 30.41      QS17
ATOM  49158  CB  ARG Q  63     113.701  73.016 -27.674  1.00 35.08      QS17
ATOM  49159  CG  ARG Q  63     114.050  71.568 -27.452  1.00 35.08      QS17
ATOM  49160  CD  ARG Q  63     113.276  70.740 -28.418  1.00 35.08      QS17
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ATOM  49161  NE  ARG Q  63     111.868  71.060 -28.291  1.00 35.08       QS17
ATOM  49162  CZ  ARG Q  63     110.952  70.680 -29.158  1.00 35.08       QS17
ATOM  49163  NH1 ARG Q  63     111.306  69.963 -30.216  1.00 35.08       QS17
ATOM  49164  NH2 ARG Q  63     109.693  71.025 -28.958  1.00 35.08       QS17
ATOM  49165  C   ARG Q  63     116.005  73.230 -28.403  1.00 30.41       QS17
ATOM  49166  O   ARG Q  63     116.062  73.390 -29.622  1.00 30.41       QS17
ATOM  49167  N   PRO Q  64     116.865  72.448 -27.743  1.00 14.82       QS17
ATOM  49168  CD  PRO Q  64     116.961  72.073 -26.323  1.00 14.22       QS17
ATOM  49169  CA  PRO Q  64     117.915  71.807 -28.523  1.00 14.82       QS17
ATOM  49170  CB  PRO Q  64     118.521  70.825 -27.537  1.00 14.22       QS17
ATOM  49171  CG  PRO Q  64     118.374  71.557 -26.234  1.00 14.22       QS17
ATOM  49172  C   PRO Q  64     117.314  71.141 -29.737  1.00 14.82       QS17
ATOM  49173  O   PRO Q  64     116.286  70.469 -29.648  1.00 14.82       QS17
ATOM  49174  N   ILE Q  65     117.958  71.372 -30.875  1.00 21.17       QS17
ATOM  49175  CA  ILE Q  65     117.543  70.826 -32.158  1.00 21.17       QS17
ATOM  49176  CB  ILE Q  65     117.376  71.953 -33.175  1.00 36.99       QS17
ATOM  49177  CG2 ILE Q  65     116.780  71.428 -34.462  1.00 36.99       QS17
ATOM  49178  CG1 ILE Q  65     116.495  73.036 -32.568  1.00 36.99       QS17
ATOM  49179  CD1 ILE Q  65     116.351  74.229 -33.431  1.00 36.99       QS17
ATOM  49180  C   ILE Q  65     118.661  69.907 -32.608  1.00 21.17       QS17
ATOM  49181  O   ILE Q  65     118.474  69.048 -33.467  1.00 21.17       QS17
ATOM  49182  N   SER Q  66     119.826  70.113 -32.003  1.00 42.68       QS17
ATOM  49183  CA  SER Q  66     121.024  69.332 -32.278  1.00 42.68       QS17
ATOM  49184  CB  SER Q  66     121.486  69.509 -33.730  1.00 21.79       QS17
ATOM  49185  OG  SER Q  66     122.198  70.718 -33.907  1.00 21.79       QS17
ATOM  49186  C   SER Q  66     122.110  69.853 -31.365  1.00 42.68       QS17
ATOM  49187  O   SER Q  66     121.912  70.836 -30.665  1.00 42.68       QS17
ATOM  49188  N   LYS Q  67     123.249  69.181 -31.353  1.00 41.29       QS17
ATOM  49189  CA  LYS Q  67     124.371  69.642 -30.556  1.00 41.29       QS17
ATOM  49190  CB  LYS Q  67     125.479  68.597 -30.574  1.00 24.17       QS17
ATOM  49191  CG  LYS Q  67     126.864  69.115 -30.234  1.00 24.17       QS17
ATOM  49192  CD  LYS Q  67     127.870  68.060 -30.613  1.00 24.17       QS17
ATOM  49193  CE  LYS Q  67     129.269  68.440 -30.224  1.00 24.17       QS17
ATOM  49194  NZ  LYS Q  67     130.234  67.361 -30.598  1.00 24.17       QS17
ATOM  49195  C   LYS Q  67     124.808  70.836 -31.370  1.00 41.29       QS17
ATOM  49196  O   LYS Q  67     125.070  70.683 -32.553  1.00 41.29       QS17
ATOM  49197  N   ARG Q  68     124.870  72.015 -30.767  1.00 54.90       QS17
ATOM  49198  CA  ARG Q  68     125.281  73.217 -31.494  1.00 54.90       QS17
ATOM  49199  CB  ARG Q  68     126.077  72.825 -32.747  1.00 46.20       QS17
ATOM  49200  CG  ARG Q  68     127.000  73.882 -33.262  1.00 46.20       QS17
ATOM  49201  CD  ARG Q  68     128.161  74.184 -32.319  1.00 46.20       QS17
ATOM  49202  NE  ARG Q  68     128.707  75.491 -32.665  1.00 46.20       QS17
ATOM  49203  CZ  ARG Q  68     129.164  75.806 -33.877  1.00 46.20       QS17
ATOM  49204  NH1 ARG Q  68     129.155  74.900 -34.838  1.00 46.20       QS17
ATOM  49205  NH2 ARG Q  68     129.576  77.039 -34.153  1.00 46.20       QS17
ATOM  49206  C   ARG Q  68     124.074  74.098 -31.873  1.00 54.90       QS17
ATOM  49207  O   ARG Q  68     124.112  75.322 -31.699  1.00 54.90       QS17
ATOM  49208  N   LYS Q  69     123.006  73.482 -32.382  1.00 23.05       QS17
ATOM  49209  CA  LYS Q  69     121.798  74.222 -32.755  1.00 23.05       QS17
ATOM  49210  CB  LYS Q  69     121.000  73.487 -33.828  1.00 14.05       QS17
ATOM  49211  CG  LYS Q  69     121.677  73.379 -35.165  1.00 14.05       QS17
ATOM  49212  CD  LYS Q  69     120.800  72.652 -36.178  1.00 14.05       QS17
ATOM  49213  CE  LYS Q  69     119.610  73.505 -36.590  1.00 14.05       QS17
ATOM  49214  NZ  LYS Q  69     118.858  72.932 -37.746  1.00 14.05       QS17
ATOM  49215  C   LYS Q  69     120.885  74.431 -31.558  1.00 23.05       QS17
ATOM  49216  O   LYS Q  69     120.306  73.483 -31.036  1.00 23.05       QS17
ATOM  49217  N   ARG Q  70     120.752  75.676 -31.125  1.00 53.03       QS17
ATOM  49218  CA  ARG Q  70     119.882  75.978 -30.006  1.00 53.03       QS17
ATOM  49219  CB  ARG Q  70     120.696  76.249 -28.757  1.00 33.21       QS17
ATOM  49220  CG  ARG Q  70     120.864  75.052 -27.863  1.00 33.21       QS17
ATOM  49221  CD  ARG Q  70     121.733  73.974 -28.466  1.00 33.21       QS17
ATOM  49222  NE  ARG Q  70     121.707  72.800 -27.604  1.00 33.21       QS17
ATOM  49223  CZ  ARG Q  70     122.413  71.692 -27.800  1.00 33.21       QS17
ATOM  49224  NH1 ARG Q  70     123.231  71.571 -28.839  1.00 33.21       QS17
ATOM  49225  NH2 ARG Q  70     122.296  70.690 -26.942  1.00 33.21       QS17
ATOM  49226  C   ARG Q  70     119.009  77.175 -30.311  1.00 53.03       QS17
ATOM  49227  O   ARG Q  70     118.391  77.746 -29.414  1.00 53.03       QS17
ATOM  49228  N   PHE Q  71     118.964  77.550 -31.584  1.00 27.38       QS17
ATOM  49229  CA  PHE Q  71     118.160  78.680 -32.024  1.00 27.38       QS17
ATOM  49230  CB  PHE Q  71     119.034  79.905 -32.231  1.00 23.03       QS17
ATOM  49231  CG  PHE Q  71     119.563  80.501 -30.974  1.00 23.03       QS17
ATOM  49232  CD1 PHE Q  71     118.925  81.569 -30.384  1.00 23.03       QS17
ATOM  49233  CD2 PHE Q  71     120.735  80.031 -30.408  1.00 23.03       QS17
ATOM  49234  CE1 PHE Q  71     119.443  82.171 -29.256  1.00 23.03       QS17
ATOM  49235  CE2 PHE Q  71     121.267  80.627 -29.266  1.00 23.03       QS17
ATOM  49236  CZ  PHE Q  71     120.620  81.699 -28.692  1.00 23.03       QS17
ATOM  49237  C   PHE Q  71     117.473  78.362 -33.342  1.00 27.38       QS17
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ATOM  49238  O   PHE Q  71     117.958  77.560 -34.142  1.00 27.38       QS17
ATOM  49239  N   ARG Q  72     116.341  79.012 -33.560  1.00 24.57       QS17
ATOM  49240  CA  ARG Q  72     115.582  78.829 -34.777  1.00 24.57       QS17
ATOM  49241  CB  ARG Q  72     114.226  78.235 -34.448  1.00 37.49       QS17
ATOM  49242  CG  ARG Q  72     114.313  77.026 -33.540  1.00 37.49       QS17
ATOM  49243  CD  ARG Q  72     112.942  76.506 -33.200  1.00 37.49       QS17
ATOM  49244  NE  ARG Q  72     112.239  77.424 -32.318  1.00 37.49       QS17
ATOM  49245  CZ  ARG Q  72     110.919  77.521 -32.269  1.00 37.49       QS17
ATOM  49246  NH1 ARG Q  72     110.183  76.757 -33.062  1.00 37.49       QS17
ATOM  49247  NH2 ARG Q  72     110.337  78.365 -31.430  1.00 37.49       QS17
ATOM  49248  C   ARG Q  72     115.428  80.231 -35.316  1.00 24.57       QS17
ATOM  49249  O   ARG Q  72     115.450  81.190 -34.539  1.00 24.57       QS17
ATOM  49250  N   VAL Q  73     115.279  80.365 -36.631  1.00 33.41       QS17
ATOM  49251  CA  VAL Q  73     115.159  81.692 -37.226  1.00 33.41       QS17
ATOM  49252  CB  VAL Q  73     115.457  81.673 -38.733  1.00  7.86       QS17
ATOM  49253  CG1 VAL Q  73     115.724  83.090 -39.225  1.00  7.86       QS17
ATOM  49254  CG2 VAL Q  73     116.639  80.783 -39.015  1.00  7.86       QS17
ATOM  49255  C   VAL Q  73     113.778  82.273 -37.019  1.00 33.41       QS17
ATOM  49256  O   VAL Q  73     112.822  81.856 -37.652  1.00 33.41       QS17
ATOM  49257  N   LEU Q  74     113.685  83.250 -36.133  1.00 30.29       QS17
ATOM  49258  CA  LEU Q  74     112.416  83.882 -35.831  1.00 30.29       QS17
ATOM  49259  CB  LEU Q  74     112.592  84.948 -34.762  1.00 19.33       QS17
ATOM  49260  CG  LEU Q  74     111.382  85.198 -33.873  1.00 19.33       QS17
ATOM  49261  CD1 LEU Q  74     111.579  86.512 -33.171  1.00 19.33       QS17
ATOM  49262  CD2 LEU Q  74     110.103  85.225 -34.690  1.00 19.33       QS17
ATOM  49263  C   LEU Q  74     111.820  84.535 -37.055  1.00 30.29       QS17
ATOM  49264  O   LEU Q  74     110.654  84.313 -37.375  1.00 30.29       QS17
ATOM  49265  N   ARG Q  75     112.610  85.361 -37.728  1.00 52.96       QS17
ATOM  49266  CA  ARG Q  75     112.120  86.045 -38.910  1.00 52.96       QS17
ATOM  49267  CB  ARG Q  75     110.982  86.994 -38.539  1.00 54.20       QS17
ATOM  49268  CG  ARG Q  75     111.368  88.157 -37.655  1.00 54.20       QS17
ATOM  49269  CD  ARG Q  75     110.136  88.996 -37.377  1.00 54.20       QS17
ATOM  49270  NE  ARG Q  75     110.426  90.223 -36.641  1.00 54.20       QS17
ATOM  49271  CZ  ARG Q  75     111.147  91.241 -37.112  1.00 54.20       QS17
ATOM  49272  NH1 ARG Q  75     111.667  91.193 -38.332  1.00 54.20       QS17
ATOM  49273  NH2 ARG Q  75     111.348  92.317 -36.362  1.00 54.20       QS17
ATOM  49274  C   ARG Q  75     113.174  86.829 -39.656  1.00 52.96       QS17
ATOM  49275  O   ARG Q  75     114.244  87.142 -39.128  1.00 52.96       QS17
ATOM  49276  N   LEU Q  76     112.855  87.139 -40.904  1.00 68.61       QS17
ATOM  49277  CA  LEU Q  76     113.756  87.907 -41.731  1.00 68.61       QS17
ATOM  49278  CB  LEU Q  76     113.366  87.770 -43.199  1.00 57.87       QS17
ATOM  49279  CG  LEU Q  76     114.194  88.559 -44.212  1.00 57.87       QS17
ATOM  49280  CD1 LEU Q  76     113.960  87.967 -45.586  1.00 57.87       QS17
ATOM  49281  CD2 LEU Q  76     113.816  90.033 -44.191  1.00 57.87       QS17
ATOM  49282  C   LEU Q  76     113.605  89.340 -41.264  1.00 68.61       QS17
ATOM  49283  O   LEU Q  76     112.583  89.701 -40.691  1.00 68.61       QS17
ATOM  49284  N   VAL Q  77     114.623  90.152 -41.500  1.00 56.01       QS17
ATOM  49285  CA  VAL Q  77     114.593  91.540 -41.085  1.00 56.01       QS17
ATOM  49286  CB  VAL Q  77     115.636  91.784 -40.024  1.00 22.56       QS17
ATOM  49287  CG1 VAL Q  77     115.588  93.216 -39.567  1.00 22.56       QS17
ATOM  49288  CG2 VAL Q  77     115.404  90.838 -38.881  1.00 22.56       QS17
ATOM  49289  C   VAL Q  77     114.859  92.442 -42.273  1.00 56.01       QS17
ATOM  49290  O   VAL Q  77     114.246  93.496 -42.411  1.00 56.01       QS17
ATOM  49291  N   GLU Q  78     115.799  92.031 -43.112  1.00 34.91       QS17
ATOM  49292  CA  GLU Q  78     116.128  92.754 -44.329  1.00 34.91       QS17
ATOM  49293  CB  GLU Q  78     116.888  94.045 -44.034  1.00 97.40       QS17
ATOM  49294  CG  GLU Q  78     118.366  93.915 -43.877  1.00 97.40       QS17
ATOM  49295  CD  GLU Q  78     119.082  95.120 -44.446  1.00 97.40       QS17
ATOM  49296  OE1 GLU Q  78     119.038  95.299 -45.684  1.00 97.40       QS17
ATOM  49297  OE2 GLU Q  78     119.672  95.894 -43.661  1.00 97.40       QS17
ATOM  49298  C   GLU Q  78     116.950  91.775 -45.152  1.00 34.91       QS17
ATOM  49299  O   GLU Q  78     117.908  91.183 -44.659  1.00 34.91       QS17
ATOM  49300  N   SER Q  79     116.539  91.577 -46.401  1.00 45.39       QS17
ATOM  49301  CA  SER Q  79     117.186  90.616 -47.285  1.00 45.39       QS17
ATOM  49302  CB  SER Q  79     116.188  90.135 -48.344  1.00165.74       QS17
ATOM  49303  OG  SER Q  79     116.723  89.071 -49.113  1.00165.74       QS17
ATOM  49304  C   SER Q  79     118.434  91.120 -47.966  1.00 45.39       QS17
ATOM  49305  O   SER Q  79     118.903  92.220 -47.694  1.00 45.39       QS17
ATOM  49306  N   GLY Q  80     118.964  90.279 -48.846  1.00131.89       QS17
ATOM  49307  CA  GLY Q  80     120.155  90.598 -49.606  1.00131.89       QS17
ATOM  49308  C   GLY Q  80     120.997  91.760 -49.124  1.00131.89       QS17
ATOM  49309  O   GLY Q  80     120.618  92.926 -49.244  1.00131.89       QS17
ATOM  49310  N   ARG Q  81     122.151  91.427 -48.564  1.00 39.84       QS17
ATOM  49311  CA  ARG Q  81     123.092  92.422 -48.087  1.00 39.84       QS17
ATOM  49312  CB  ARG Q  81     122.503  93.197 -46.920  1.00 49.88       QS17
ATOM  49313  CG  ARG Q  81     122.446  92.474 -45.630  1.00 49.88       QS17
ATOM  49314  CD  ARG Q  81     122.355  93.543 -44.603  1.00 49.88       QS17
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ATOM  49315  NE  ARG Q  81     123.374  94.554 -44.859  1.00 49.88       QS17
ATOM  49316  CZ  ARG Q  81     123.284  95.816 -44.463  1.00 49.88       QS17
ATOM  49317  NH1 ARG Q  81     122.218  96.223 -43.794  1.00 49.88       QS17
ATOM  49318  NH2 ARG Q  81     124.261  96.671 -44.729  1.00 49.88       QS17
ATOM  49319  C   ARG Q  81     124.435  91.753 -47.730  1.00 39.84       QS17
ATOM  49320  O   ARG Q  81     124.872  91.669 -46.567  1.00 39.84       QS17
ATOM  49321  N   MET Q  82     125.064  91.290 -48.808  1.00 41.31       QS17
ATOM  49322  CA  MET Q  82     126.339  90.605 -48.806  1.00 41.31       QS17
ATOM  49323  CB  MET Q  82     126.682  90.174 -50.232  1.00117.60       QS17
ATOM  49324  CG  MET Q  82     125.563  89.440 -50.943  1.00117.60       QS17
ATOM  49325  SD  MET Q  82     124.994  88.025 -50.001  1.00117.60       QS17
ATOM  49326  CE  MET Q  82     126.341  86.883 -50.272  1.00117.60       QS17
ATOM  49327  C   MET Q  82     127.482  91.434 -48.253  1.00 41.31       QS17
ATOM  49328  O   MET Q  82     128.444  90.880 -47.738  1.00 41.31       QS17
ATOM  49329  N   ASP Q  83     127.410  92.751 -48.371  1.00 53.57       QS17
ATOM  49330  CA  ASP Q  83     128.498  93.551 -47.839  1.00 53.57       QS17
ATOM  49331  CB  ASP Q  83     128.084  95.024 -47.714  1.00102.15       QS17
ATOM  49332  CG  ASP Q  83     126.709  95.202 -47.113  1.00102.15       QS17
ATOM  49333  OD1 ASP Q  83     125.732  94.738 -47.733  1.00102.15       QS17
ATOM  49334  OD2 ASP Q  83     126.607  95.811 -46.026  1.00102.15       QS17
ATOM  49335  C   ASP Q  83     128.935  92.980 -46.481  1.00 53.57       QS17
ATOM  49336  O   ASP Q  83     130.131  92.911 -46.175  1.00 53.57       QS17
ATOM  49337  N   LEU Q  84     127.962  92.539 -45.686  1.00 35.80       QS17
ATOM  49338  CA  LEU Q  84     128.239  91.961 -44.380  1.00 35.80       QS17
ATOM  49339  CB  LEU Q  84     126.939  91.784 -43.620  1.00 41.83       QS17
ATOM  49340  CG  LEU Q  84     126.450  93.141 -43.140  1.00 41.83       QS17
ATOM  49341  CD1 LEU Q  84     125.173  92.986 -42.356  1.00 41.83       QS17
ATOM  49342  CD2 LEU Q  84     127.535  93.765 -42.275  1.00 41.83       QS17
ATOM  49343  C   LEU Q  84     128.952  90.631 -44.517  1.00 35.80       QS17
ATOM  49344  O   LEU Q  84     130.018  90.423 -43.945  1.00 35.80       QS17
ATOM  49345  N   VAL Q  85     128.347  89.724 -45.269  1.00 11.62       QS17
ATOM  49346  CA  VAL Q  85     128.949  88.426 -45.515  1.00 11.62       QS17
ATOM  49347  CB  VAL Q  85     128.175  87.671 -46.621  1.00 81.11       QS17
ATOM  49348  CG1 VAL Q  85     128.754  86.286 -46.817  1.00 81.11       QS17
ATOM  49349  CG2 VAL Q  85     126.706  87.587 -46.258  1.00 81.11       QS17
ATOM  49350  C   VAL Q  85     130.391  88.682 -45.985  1.00 11.62       QS17
ATOM  49351  O   VAL Q  85     131.342  88.028 -45.537  1.00 11.62       QS17
ATOM  49352  N   GLU Q  86     130.547  89.654 -46.880  1.00 41.98       QS17
ATOM  49353  CA  GLU Q  86     131.861  89.986 -47.404  1.00 41.98       QS17
ATOM  49354  CB  GLU Q  86     131.819  91.292 -48.197  1.00201.17       QS17
ATOM  49355  CG  GLU Q  86     131.343  91.109 -49.624  1.00201.17       QS17
ATOM  49356  CD  GLU Q  86     132.152  90.060 -50.362  1.00201.17       QS17
ATOM  49357  OE1 GLU Q  86     133.388  90.214 -50.444  1.00201.17       QS17
ATOM  49358  OE2 GLU Q  86     131.556  89.079 -50.858  1.00201.17       QS17
ATOM  49359  C   GLU Q  86     132.857  90.099 -46.277  1.00 41.98       QS17
ATOM  49360  O   GLU Q  86     133.740  89.251 -46.149  1.00 41.98       QS17
ATOM  49361  N   LYS Q  87     132.703  91.133 -45.450  1.00 30.25       QS17
ATOM  49362  CA  LYS Q  87     133.618  91.346 -44.339  1.00 30.25       QS17
ATOM  49363  CB  LYS Q  87     133.051  92.355 -43.347  1.00122.76       QS17
ATOM  49364  CG  LYS Q  87     133.215  93.786 -43.805  1.00122.76       QS17
ATOM  49365  CD  LYS Q  87     132.941  94.761 -42.682  1.00122.76       QS17
ATOM  49366  CE  LYS Q  87     133.275  96.179 -43.110  1.00122.76       QS17
ATOM  49367  NZ  LYS Q  87     133.055  97.157 -42.009  1.00122.76       QS17
ATOM  49368  C   LYS Q  87     133.936  90.044 -43.639  1.00 30.25       QS17
ATOM  49369  O   LYS Q  87     135.099  89.700 -43.485  1.00 30.25       QS17
ATOM  49370  N   TYR Q  88     132.908  89.308 -43.233  1.00 60.57       QS17
ATOM  49371  CA  TYR Q  88     133.121  88.036 -42.557  1.00 60.57       QS17
ATOM  49372  CB  TYR Q  88     131.794  87.338 -42.299  1.00 45.55       QS17
ATOM  49373  CG  TYR Q  88     131.956  85.876 -41.969  1.00 45.55       QS17
ATOM  49374  CD1 TYR Q  88     132.300  85.461 -40.686  1.00 45.55       QS17
ATOM  49375  CE1 TYR Q  88     132.457  84.104 -40.384  1.00 45.55       QS17
ATOM  49376  CD2 TYR Q  88     131.778  84.905 -42.947  1.00 45.55       QS17
ATOM  49377  CE2 TYR Q  88     131.932  83.556 -42.663  1.00 45.55       QS17
ATOM  49378  CZ  TYR Q  88     132.268  83.158 -41.380  1.00 45.55       QS17
ATOM  49379  OH  TYR Q  88     132.375  81.812 -41.097  1.00 45.55       QS17
ATOM  49380  C   TYR Q  88     133.996  87.104 -43.383  1.00 60.57       QS17
ATOM  49381  O   TYR Q  88     134.970  86.545 -42.887  1.00 60.57       QS17
ATOM  49382  N   LEU Q  89     133.638  86.930 -44.646  1.00 44.15       QS17
ATOM  49383  CA  LEU Q  89     134.386  86.038 -45.522  1.00 44.15       QS17
ATOM  49384  CB  LEU Q  89     133.743  86.003 -46.901  1.00 41.54       QS17
ATOM  49385  CG  LEU Q  89     132.416  85.261 -46.938  1.00 41.54       QS17
ATOM  49386  CD1 LEU Q  89     131.759  85.506 -48.287  1.00 41.54       QS17
ATOM  49387  CD2 LEU Q  89     132.648  83.777 -46.683  1.00 41.54       QS17
ATOM  49388  C   LEU Q  89     135.858  86.368 -45.672  1.00 44.15       QS17
ATOM  49389  O   LEU Q  89     136.702  85.477 -45.715  1.00 44.15       QS17
ATOM  49390  N   ILE Q  90     136.168  87.648 -45.762  1.00 41.50       QS17
ATOM  49391  CA  ILE Q  90     137.545  88.045 -45.926  1.00 41.50       QS17
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ATOM  49392  CB  ILE Q  90     137.639  89.500 -46.314  1.00 54.72      QS17
ATOM  49393  CG2 ILE Q  90     139.094  89.915 -46.394  1.00 54.72      QS17
ATOM  49394  CG1 ILE Q  90     136.926  89.692 -47.649  1.00 54.72      QS17
ATOM  49395  CD1 ILE Q  90     136.943  91.101 -48.152  1.00 54.72      QS17
ATOM  49396  C   ILE Q  90     138.352  87.800 -44.673  1.00 41.50      QS17
ATOM  49397  O   ILE Q  90     139.487  87.327 -44.757  1.00 41.50      QS17
ATOM  49398  N   ARG Q  91     137.766  88.113 -43.517  1.00 29.78      QS17
ATOM  49399  CA  ARG Q  91     138.446  87.910 -42.238  1.00 29.78      QS17
ATOM  49400  CB  ARG Q  91     137.508  88.185 -41.058  1.00111.85      QS17
ATOM  49401  CG  ARG Q  91     138.229  88.272 -39.717  1.00111.85      QS17
ATOM  49402  CD  ARG Q  91     137.491  87.516 -38.625  1.00111.85      QS17
ATOM  49403  NE  ARG Q  91     136.191  88.104 -38.319  1.00111.85      QS17
ATOM  49404  CZ  ARG Q  91     135.289  87.555 -37.509  1.00111.85      QS17
ATOM  49405  NH1 ARG Q  91     135.534  86.392 -36.911  1.00111.85      QS17
ATOM  49406  NH2 ARG Q  91     134.137  88.174 -37.293  1.00111.85      QS17
ATOM  49407  C   ARG Q  91     138.901  86.458 -42.204  1.00 29.78      QS17
ATOM  49408  O   ARG Q  91     139.960  86.137 -41.661  1.00 29.78      QS17
ATOM  49409  N   ARG Q  92     138.092  85.593 -42.812  1.00 53.45      QS17
ATOM  49410  CA  ARG Q  92     138.386  84.172 -42.886  1.00 53.45      QS17
ATOM  49411  CB  ARG Q  92     137.139  83.412 -43.361  1.00191.34      QS17
ATOM  49412  CG  ARG Q  92     137.365  81.938 -43.668  1.00191.34      QS17
ATOM  49413  CD  ARG Q  92     136.058  81.215 -43.987  1.00191.34      QS17
ATOM  49414  NE  ARG Q  92     135.348  80.777 -42.786  1.00191.34      QS17
ATOM  49415  CZ  ARG Q  92     134.194  80.114 -42.797  1.00191.34      QS17
ATOM  49416  NH1 ARG Q  92     133.610  79.814 -43.949  1.00191.34      QS17
ATOM  49417  NH2 ARG Q  92     133.629  79.735 -41.657  1.00191.34      QS17
ATOM  49418  C   ARG Q  92     139.575  83.895 -43.820  1.00 53.45      QS17
ATOM  49419  O   ARG Q  92     140.406  83.030 -43.533  1.00 53.45      QS17
ATOM  49420  N   GLN Q  93     139.670  84.631 -44.925  1.00 63.51      QS17
ATOM  49421  CA  GLN Q  93     140.758  84.426 -45.873  1.00 63.51      QS17
ATOM  49422  CB  GLN Q  93     140.467  85.133 -47.188  1.00141.49      QS17
ATOM  49423  CG  GLN Q  93     139.611  84.325 -48.117  1.00141.49      QS17
ATOM  49424  CD  GLN Q  93     139.736  84.787 -49.547  1.00141.49      QS17
ATOM  49425  OE1 GLN Q  93     139.379  85.916 -49.880  1.00141.49      QS17
ATOM  49426  NE2 GLN Q  93     140.254  83.915 -50.405  1.00141.49      QS17
ATOM  49427  C   GLN Q  93     142.136  84.852 -45.392  1.00 63.51      QS17
ATOM  49428  O   GLN Q  93     143.132  84.187 -45.700  1.00 63.51      QS17
ATOM  49429  N   ASN Q  94     142.208  85.963 -44.659  1.00 45.24      QS17
ATOM  49430  CA  ASN Q  94     143.493  86.447 -44.163  1.00 45.24      QS17
ATOM  49431  CB  ASN Q  94     143.315  87.734 -43.358  1.00 73.22      QS17
ATOM  49432  CG  ASN Q  94     142.594  88.818 -44.143  1.00 73.22      QS17
ATOM  49433  OD1 ASN Q  94     142.782  88.956 -45.357  1.00 73.22      QS17
ATOM  49434  ND2 ASN Q  94     141.772  89.603 -43.449  1.00 73.22      QS17
ATOM  49435  C   ASN Q  94     144.110  85.366 -43.295  1.00 45.24      QS17
ATOM  49436  O   ASN Q  94     145.323  85.216 -43.243  1.00 45.24      QS17
ATOM  49437  N   TYR Q  95     143.253  84.610 -42.619  1.00 47.02      QS17
ATOM  49438  CA  TYR Q  95     143.681  83.513 -41.758  1.00 47.02      QS17
ATOM  49439  CB  TYR Q  95     142.459  82.751 -41.223  1.00 65.51      QS17
ATOM  49440  CG  TYR Q  95     141.706  83.493 -40.146  1.00 65.51      QS17
ATOM  49441  CD1 TYR Q  95     141.918  84.856 -39.947  1.00 65.51      QS17
ATOM  49442  CE1 TYR Q  95     141.273  85.549 -38.937  1.00 65.51      QS17
ATOM  49443  CD2 TYR Q  95     140.813  82.834 -39.303  1.00 65.51      QS17
ATOM  49444  CE2 TYR Q  95     140.155  83.521 -38.280  1.00 65.51      QS17
ATOM  49445  CZ  TYR Q  95     140.397  84.884 -38.102  1.00 65.51      QS17
ATOM  49446  OH  TYR Q  95     139.804  85.597 -37.082  1.00 65.51      QS17
ATOM  49447  C   TYR Q  95     144.533  82.582 -42.586  1.00 47.02      QS17
ATOM  49448  O   TYR Q  95     145.731  82.459 -42.364  1.00 47.02      QS17
ATOM  49449  N   GLN Q  96     143.890  81.926 -43.545  1.00102.10      QS17
ATOM  49450  CA  GLN Q  96     144.558  80.994 -44.439  1.00102.10      QS17
ATOM  49451  CB  GLN Q  96     143.584  80.535 -45.533  1.00201.26      QS17
ATOM  49452  CG  GLN Q  96     144.164  79.584 -46.572  1.00201.26      QS17
ATOM  49453  CD  GLN Q  96     144.864  80.309 -47.706  1.00201.26      QS17
ATOM  49454  OE1 GLN Q  96     144.257  81.119 -48.408  1.00201.26      QS17
ATOM  49455  NE2 GLN Q  96     146.147  80.019 -47.892  1.00201.26      QS17
ATOM  49456  C   GLN Q  96     145.741  81.715 -45.043  1.00102.10      QS17
ATOM  49457  O   GLN Q  96     145.627  82.321 -46.104  1.00102.10      QS17
ATOM  49458  N   SER Q  97     146.867  81.655 -44.338  1.00177.36      QS17
ATOM  49459  CA  SER Q  97     148.097  82.302 -44.763  1.00177.36      QS17
ATOM  49460  CB  SER Q  97     147.776  83.558 -45.575  1.00135.54      QS17
ATOM  49461  OG  SER Q  97     146.788  84.345 -44.933  1.00135.54      QS17
ATOM  49462  C   SER Q  97     149.004  82.651 -43.578  1.00177.36      QS17
ATOM  49463  O   SER Q  97     150.105  82.112 -43.468  1.00177.36      QS17
ATOM  49464  N   LEU Q  98     148.550  83.544 -42.696  1.00 52.93      QS17
ATOM  49465  CA  LEU Q  98     149.347  83.941 -41.529  1.00 52.93      QS17
ATOM  49466  CB  LEU Q  98     148.634  85.069 -40.758  1.00 56.81      QS17
ATOM  49467  CG  LEU Q  98     147.132  85.047 -40.418  1.00 56.81      QS17
ATOM  49468  CD1 LEU Q  98     146.784  83.849 -39.580  1.00 56.81      QS17
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ATOM  49469  CD2 LEU Q  98     146.761  86.318 -39.659  1.00 56.81       QS17
ATOM  49470  C   LEU Q  98     149.714  82.805 -40.556  1.00 52.93       QS17
ATOM  49471  O   LEU Q  98     149.301  82.827 -39.401  1.00 52.93       QS17
ATOM  49472  N   SER Q  99     150.519  81.840 -41.007  1.00 62.20       QS17
ATOM  49473  CA  SER Q  99     150.911  80.703 -40.164  1.00 62.20       QS17
ATOM  49474  CB  SER Q  99     150.116  79.461 -40.582  1.00102.67       QS17
ATOM  49475  OG  SER Q  99     150.428  79.079 -41.911  1.00102.67       QS17
ATOM  49476  C   SER Q  99     152.416  80.367 -40.172  1.00 62.20       QS17
ATOM  49477  O   SER Q  99     153.052  80.217 -39.111  1.00 62.20       QS17
ATOM  49478  N   LYS Q 100     152.961  80.219 -41.380  1.00201.07       QS17
ATOM  49479  CA  LYS Q 100     154.378  79.914 -41.602  1.00201.07       QS17
ATOM  49480  CB  LYS Q 100     154.574  78.443 -41.992  1.00 69.97       QS17
ATOM  49481  CG  LYS Q 100     154.269  77.439 -40.909  1.00 69.97       QS17
ATOM  49482  CD  LYS Q 100     154.502  76.027 -41.428  1.00 69.97       QS17
ATOM  49483  CE  LYS Q 100     154.171  74.976 -40.368  1.00 69.97       QS17
ATOM  49484  NZ  LYS Q 100     154.968  75.117 -39.103  1.00 69.97       QS17
ATOM  49485  C   LYS Q 100     154.874  80.791 -42.750  1.00201.07       QS17
ATOM  49486  O   LYS Q 100     155.914  81.446 -42.651  1.00201.07       QS17
ATOM  49487  N   ARG Q 101     154.113  80.782 -43.842  1.00201.26       QS17
ATOM  49488  CA  ARG Q 101     154.426  81.563 -45.034  1.00201.26       QS17
ATOM  49489  CB  ARG Q 101     153.667  81.000 -46.241  1.00201.26       QS17
ATOM  49490  CG  ARG Q 101     154.115  79.610 -46.674  1.00201.26       QS17
ATOM  49491  CD  ARG Q 101     155.441  79.666 -47.420  1.00201.26       QS17
ATOM  49492  NE  ARG Q 101     156.494  80.301 -46.633  1.00201.26       QS17
ATOM  49493  CZ  ARG Q 101     157.707  80.585 -47.096  1.00201.26       QS17
ATOM  49494  NH1 ARG Q 101     158.026  80.289 -48.349  1.00201.26       QS17
ATOM  49495  NH2 ARG Q 101     158.600  81.167 -46.309  1.00201.26       QS17
ATOM  49496  C   ARG Q 101     154.047  83.024 -44.826  1.00201.26       QS17
ATOM  49497  O   ARG Q 101     154.890  83.918 -44.924  1.00201.26       QS17
ATOM  49498  N   GLY Q 102     152.769  83.257 -44.542  1.00201.26       QS17
ATOM  49499  CA  GLY Q 102     152.299  84.611 -44.319  1.00201.26       QS17
ATOM  49500  C   GLY Q 102     150.887  84.884 -44.807  1.00201.26       QS17
ATOM  49501  O   GLY Q 102     150.434  84.287 -45.785  1.00201.26       QS17
ATOM  49502  N   GLY Q 103     150.201  85.800 -44.122  1.00201.07       QS17
ATOM  49503  CA  GLY Q 103     148.838  86.167 -44.470  1.00201.07       QS17
ATOM  49504  C   GLY Q 103     148.599  86.537 -45.926  1.00201.07       QS17
ATOM  49505  O   GLY Q 103     149.487  86.398 -46.770  1.00201.07       QS17
ATOM  49506  N   LYS Q 104     147.386  87.001 -46.222  1.00201.26       QS17
ATOM  49507  CA  LYS Q 104     147.017  87.405 -47.579  1.00201.26       QS17
ATOM  49508  CB  LYS Q 104     145.608  86.893 -47.915  1.00125.25       QS17
ATOM  49509  CG  LYS Q 104     145.443  86.428 -49.357  1.00125.25       QS17
ATOM  49510  CD  LYS Q 104     145.897  87.488 -50.352  1.00125.25       QS17
ATOM  49511  CE  LYS Q 104     145.850  86.965 -51.778  1.00125.25       QS17
ATOM  49512  NZ  LYS Q 104     146.361  87.961 -52.761  1.00125.25       QS17
ATOM  49513  C   LYS Q 104     147.066  88.937 -47.698  1.00201.26       QS17
ATOM  49514  O   LYS Q 104     148.148  89.520 -47.799  1.00201.26       QS17
ATOM  49515  N   ALA Q 105     145.893  89.572 -47.688  1.00201.26       QS17
ATOM  49516  CA  ALA Q 105     145.755  91.032 -47.773  1.00201.26       QS17
ATOM  49517  CB  ALA Q 105     146.846  91.639 -48.661  1.00 85.56       QS17
ATOM  49518  C   ALA Q 105     144.380  91.417 -48.310  1.00201.26       QS17
ATOM  49519  O   ALA Q 105     144.331  92.063 -49.378  1.00201.26       QS17
ATOM  49520  OXT ALA Q 105     143.370  91.072 -47.658  1.00 85.56       QS17
TER   49520       ALA Q 105                                              QS17
ATOM  49521  CB  PRO R  16     188.899 137.754 -53.650  1.00201.26       RS18
ATOM  49522  CG  PRO R  16     189.719 139.003 -53.980  1.00201.26       RS18
ATOM  49523  C   PRO R  16     187.655 137.282 -55.785  1.00201.26       RS18
ATOM  49524  O   PRO R  16     186.657 137.760 -55.242  1.00201.26       RS18
ATOM  49525  N   PRO R  16     190.150 137.460 -55.693  1.00201.26       RS18
ATOM  49526  CD  PRO R  16     190.836 138.500 -54.905  1.00201.26       RS18
ATOM  49527  CA  PRO R  16     188.928 137.014 -54.981  1.00201.26       RS18
ATOM  49528  N   SER R  17     187.704 136.967 -57.078  1.00196.97       RS18
ATOM  49529  CA  SER R  17     186.575 137.155 -57.989  1.00196.97       RS18
ATOM  49530  CB  SER R  17     185.456 136.157 -57.657  1.00201.26       RS18
ATOM  49531  OG  SER R  17     184.950 136.348 -56.347  1.00201.26       RS18
ATOM  49532  C   SER R  17     186.013 138.577 -57.984  1.00196.97       RS18
ATOM  49533  O   SER R  17     184.858 138.798 -58.356  1.00196.97       RS18
ATOM  49534  N   ARG R  18     186.838 139.537 -57.575  1.00201.26       RS18
ATOM  49535  CA  ARG R  18     186.416 140.932 -57.519  1.00201.26       RS18
ATOM  49536  CB  ARG R  18     186.948 141.594 -56.243  1.00185.04       RS18
ATOM  49537  CG  ARG R  18     186.449 140.967 -54.939  1.00185.04       RS18
ATOM  49538  CD  ARG R  18     184.947 141.165 -54.718  1.00185.04       RS18
ATOM  49539  NE  ARG R  18     184.123 140.351 -55.610  1.00185.04       RS18
ATOM  49540  CZ  ARG R  18     182.795 140.305 -55.566  1.00185.04       RS18
ATOM  49541  NH1 ARG R  18     182.132 141.027 -54.673  1.00185.04       RS18
ATOM  49542  NH2 ARG R  18     182.129 139.535 -56.413  1.00185.04       RS18
ATOM  49543  C   ARG R  18     186.871 141.727 -58.740  1.00201.26       RS18
ATOM  49544  O   ARG R  18     187.632 142.689 -58.626  1.00201.26       RS18
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ATOM  49545  N   LYS R  19     186.403 141.308 -59.911  1.00201.26      RS18
ATOM  49546  CA  LYS R  19     186.733 141.980 -61.160  1.00201.26      RS18
ATOM  49547  CB  LYS R  19     187.457 141.026 -62.115  1.00201.26      RS18
ATOM  49548  CG  LYS R  19     188.890 140.691 -61.713  1.00201.26      RS18
ATOM  49549  CD  LYS R  19     188.958 139.917 -60.403  1.00201.26      RS18
ATOM  49550  CE  LYS R  19     190.394 139.561 -60.047  1.00201.26      RS18
ATOM  49551  NZ  LYS R  19     190.485 138.792 -58.775  1.00201.26      RS18
ATOM  49552  C   LYS R  19     185.439 142.469 -61.794  1.00201.26      RS18
ATOM  49553  O   LYS R  19     185.207 143.673 -61.891  1.00201.26      RS18
ATOM  49554  N   ALA R  20     184.596 141.529 -62.216  1.00151.89      RS18
ATOM  49555  CA  ALA R  20     183.311 141.860 -62.827  1.00151.89      RS18
ATOM  49556  CB  ALA R  20     183.508 142.767 -64.014  1.00  2.26      RS18
ATOM  49557  C   ALA R  20     182.568 140.621 -63.276  1.00151.89      RS18
ATOM  49558  O   ALA R  20     183.177 139.653 -63.729  1.00151.89      RS18
ATOM  49559  N   LYS R  21     181.245 140.665 -63.161  1.00118.79      RS18
ATOM  49560  CA  LYS R  21     180.408 139.548 -63.573  1.00118.79      RS18
ATOM  49561  CB  LYS R  21     178.977 139.739 -63.056  1.00139.55      RS18
ATOM  49562  CG  LYS R  21     178.726 139.182 -61.653  1.00139.55      RS18
ATOM  49563  CD  LYS R  21     179.637 139.806 -60.607  1.00139.55      RS18
ATOM  49564  CE  LYS R  21     179.379 139.205 -59.233  1.00139.55      RS18
ATOM  49565  NZ  LYS R  21     180.246 139.804 -58.184  1.00139.55      RS18
ATOM  49566  C   LYS R  21     180.400 139.409 -65.095  1.00118.79      RS18
ATOM  49567  O   LYS R  21     179.968 140.313 -65.812  1.00118.79      RS18
ATOM  49568  N   VAL R  22     180.894 138.274 -65.578  1.00 61.89      RS18
ATOM  49569  CA  VAL R  22     180.944 137.991 -67.006  1.00 61.89      RS18
ATOM  49570  CB  VAL R  22     181.186 136.485 -67.250  1.00 78.24      RS18
ATOM  49571  CG1 VAL R  22     181.103 136.163 -68.735  1.00 78.24      RS18
ATOM  49572  CG2 VAL R  22     182.540 136.092 -66.692  1.00 78.24      RS18
ATOM  49573  C   VAL R  22     179.646 138.399 -67.704  1.00 61.89      RS18
ATOM  49574  O   VAL R  22     179.664 138.915 -68.823  1.00 61.89      RS18
ATOM  49575  N   LYS R  23     178.526 138.164 -67.027  1.00125.86      RS18
ATOM  49576  CA  LYS R  23     177.201 138.476 -67.550  1.00125.86      RS18
ATOM  49577  CB  LYS R  23     176.145 138.115 -66.509  1.00124.70      RS18
ATOM  49578  CG  LYS R  23     174.718 138.331 -66.952  1.00124.70      RS18
ATOM  49579  CD  LYS R  23     173.773 137.984 -65.818  1.00124.70      RS18
ATOM  49580  CE  LYS R  23     172.320 138.101 -66.240  1.00124.70      RS18
ATOM  49581  NZ  LYS R  23     171.402 137.736 -65.123  1.00124.70      RS18
ATOM  49582  C   LYS R  23     177.038 139.935 -67.952  1.00125.86      RS18
ATOM  49583  O   LYS R  23     176.394 140.234 -68.955  1.00125.86      RS18
ATOM  49584  N   ALA R  24     177.609 140.841 -67.166  1.00123.66      RS18
ATOM  49585  CA  ALA R  24     177.516 142.266 -67.465  1.00123.66      RS18
ATOM  49586  CB  ALA R  24     178.234 143.074 -66.401  1.00 23.78      RS18
ATOM  49587  C   ALA R  24     178.138 142.534 -68.826  1.00123.66      RS18
ATOM  49588  O   ALA R  24     177.477 143.044 -69.731  1.00123.66      RS18
ATOM  49589  N   THR R  25     179.418 142.192 -68.954  1.00108.09      RS18
ATOM  49590  CA  THR R  25     180.150 142.371 -70.202  1.00108.09      RS18
ATOM  49591  CB  THR R  25     181.650 142.083 -70.012  1.00162.25      RS18
ATOM  49592  OG1 THR R  25     182.144 142.834 -68.897  1.00162.25      RS18
ATOM  49593  CG2 THR R  25     182.426 142.470 -71.261  1.00162.25      RS18
ATOM  49594  C   THR R  25     179.590 141.362 -71.193  1.00108.09      RS18
ATOM  49595  O   THR R  25     180.300 140.464 -71.640  1.00108.09      RS18
ATOM  49596  N   LEU R  26     178.311 141.521 -71.524  1.00 68.05      RS18
ATOM  49597  CA  LEU R  26     177.621 140.615 -72.438  1.00 68.05      RS18
ATOM  49598  CB  LEU R  26     177.424 139.260 -71.752  1.00 66.38      RS18
ATOM  49599  CG  LEU R  26     177.974 137.975 -72.370  1.00 66.38      RS18
ATOM  49600  CD1 LEU R  26     179.392 138.161 -72.859  1.00 66.38      RS18
ATOM  49601  CD2 LEU R  26     177.923 136.890 -71.317  1.00 66.38      RS18
ATOM  49602  C   LEU R  26     176.262 141.199 -72.826  1.00 68.05      RS18
ATOM  49603  O   LEU R  26     175.862 142.249 -72.321  1.00 68.05      RS18
ATOM  49604  N   GLY R  27     175.547 140.509 -73.710  1.00 92.12      RS18
ATOM  49605  CA  GLY R  27     174.250 141.001 -74.133  1.00 92.12      RS18
ATOM  49606  C   GLY R  27     173.082 140.043 -73.976  1.00 92.12      RS18
ATOM  49607  O   GLY R  27     173.151 139.071 -73.225  1.00 92.12      RS18
ATOM  49608  N   GLU R  28     171.990 140.341 -74.674  1.00121.41      RS18
ATOM  49609  CA  GLU R  28     170.809 139.497 -74.630  1.00121.41      RS18
ATOM  49610  CB  GLU R  28     169.658 140.110 -75.440  1.00201.23      RS18
ATOM  49611  CG  GLU R  28     169.082 141.413 -74.888  1.00201.23      RS18
ATOM  49612  CD  GLU R  28     169.863 142.647 -75.308  1.00201.23      RS18
ATOM  49613  OE1 GLU R  28     171.076 142.718 -75.027  1.00201.23      RS18
ATOM  49614  OE2 GLU R  28     169.255 143.554 -75.917  1.00201.23      RS18
ATOM  49615  C   GLU R  28     171.244 138.200 -75.277  1.00121.41      RS18
ATOM  49616  O   GLU R  28     171.093 138.032 -76.487  1.00121.41      RS18
ATOM  49617  N   PHE R  29     171.805 137.290 -74.486  1.00 71.34      RS18
ATOM  49618  CA  PHE R  29     172.262 136.025 -75.046  1.00 71.34      RS18
ATOM  49619  CB  PHE R  29     173.759 135.836 -74.792  1.00 83.89      RS18
ATOM  49620  CG  PHE R  29     174.106 135.576 -73.365  1.00 83.89      RS18
ATOM  49621  CD1 PHE R  29     174.156 134.279 -72.880  1.00 83.89      RS18
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ATOM  49622  CD2 PHE R  29     174.392 136.630 -72.504  1.00 83.89       RS18
ATOM  49623  CE1 PHE R  29     174.490 134.036 -71.556  1.00 83.89       RS18
ATOM  49624  CE2 PHE R  29     174.726 136.401 -71.175  1.00 83.89       RS18
ATOM  49625  CZ  PHE R  29     174.776 135.100 -70.698  1.00 83.89       RS18
ATOM  49626  C   PHE R  29     171.486 134.822 -74.548  1.00 71.34       RS18
ATOM  49627  O   PHE R  29     170.925 134.826 -73.455  1.00 71.34       RS18
ATOM  49628  N   ASP R  30     171.464 133.793 -75.381  1.00 57.52       RS18
ATOM  49629  CA  ASP R  30     170.754 132.564 -75.089  1.00 57.52       RS18
ATOM  49630  CB  ASP R  30     170.166 132.001 -76.385  1.00 69.63       RS18
ATOM  49631  CG  ASP R  30     169.314 130.777 -76.157  1.00 69.63       RS18
ATOM  49632  OD1 ASP R  30     168.758 130.653 -75.049  1.00 69.63       RS18
ATOM  49633  OD2 ASP R  30     169.183 129.953 -77.087  1.00 69.63       RS18
ATOM  49634  C   ASP R  30     171.666 131.536 -74.437  1.00 57.52       RS18
ATOM  49635  O   ASP R  30     172.436 130.850 -75.115  1.00 57.52       RS18
ATOM  49636  N   LEU R  31     171.568 131.441 -73.114  1.00 55.90       RS18
ATOM  49637  CA  LEU R  31     172.364 130.503 -72.333  1.00 55.90       RS18
ATOM  49638  CB  LEU R  31     171.900 130.516 -70.888  1.00 37.80       RS18
ATOM  49639  CG  LEU R  31     172.061 131.787 -70.070  1.00 37.80       RS18
ATOM  49640  CD1 LEU R  31     170.983 131.819 -69.013  1.00 37.80       RS18
ATOM  49641  CD2 LEU R  31     173.443 131.822 -69.437  1.00 37.80       RS18
ATOM  49642  C   LEU R  31     172.237 129.077 -72.851  1.00 55.90       RS18
ATOM  49643  O   LEU R  31     173.063 128.220 -72.535  1.00 55.90       RS18
ATOM  49644  N   ARG R  32     171.195 128.829 -73.638  1.00 33.86       RS18
ATOM  49645  CA  ARG R  32     170.930 127.501 -74.179  1.00 33.86       RS18
ATOM  49646  CB  ARG R  32     169.423 127.357 -74.400  1.00 77.65       RS18
ATOM  49647  CG  ARG R  32     168.851 126.013 -74.021  1.00 77.65       RS18
ATOM  49648  CD  ARG R  32     167.322 126.058 -74.016  1.00 77.65       RS18
ATOM  49649  NE  ARG R  32     166.757 126.586 -72.771  1.00 77.65       RS18
ATOM  49650  CZ  ARG R  32     166.564 125.867 -71.666  1.00 77.65       RS18
ATOM  49651  NH1 ARG R  32     166.883 124.580 -71.639  1.00 77.65       RS18
ATOM  49652  NH2 ARG R  32     166.056 126.436 -70.581  1.00 77.65       RS18
ATOM  49653  C   ARG R  32     171.700 127.187 -75.474  1.00 33.86       RS18
ATOM  49654  O   ARG R  32     171.813 126.023 -75.869  1.00 33.86       RS18
ATOM  49655  N   ASP R  33     172.239 128.215 -76.128  1.00 86.96       RS18
ATOM  49656  CA  ASP R  33     172.981 128.000 -77.370  1.00 86.96       RS18
ATOM  49657  CB  ASP R  33     173.113 129.302 -78.156  1.00 98.32       RS18
ATOM  49658  CG  ASP R  33     173.609 129.072 -79.570  1.00 98.32       RS18
ATOM  49659  OD1 ASP R  33     173.113 128.129 -80.228  1.00 98.32       RS18
ATOM  49660  OD2 ASP R  33     174.484 129.835 -80.026  1.00 98.32       RS18
ATOM  49661  C   ASP R  33     174.363 127.421 -77.101  1.00 86.96       RS18
ATOM  49662  O   ASP R  33     175.233 128.079 -76.523  1.00 86.96       RS18
ATOM  49663  N   TYR R  34     174.562 126.188 -77.551  1.00 54.14       RS18
ATOM  49664  CA  TYR R  34     175.811 125.488 -77.328  1.00 54.14       RS18
ATOM  49665  CB  TYR R  34     175.507 124.036 -77.042  1.00 52.82       RS18
ATOM  49666  CG  TYR R  34     174.756 123.387 -78.159  1.00 52.82       RS18
ATOM  49667  CD1 TYR R  34     175.402 123.000 -79.322  1.00 52.82       RS18
ATOM  49668  CE1 TYR R  34     174.701 122.409 -80.366  1.00 52.82       RS18
ATOM  49669  CD2 TYR R  34     173.391 123.172 -78.063  1.00 52.82       RS18
ATOM  49670  CE2 TYR R  34     172.680 122.582 -79.099  1.00 52.82       RS18
ATOM  49671  CZ  TYR R  34     173.340 122.203 -80.243  1.00 52.82       RS18
ATOM  49672  OH  TYR R  34     172.638 121.612 -81.260  1.00 52.82       RS18
ATOM  49673  C   TYR R  34     176.816 125.561 -78.455  1.00 54.14       RS18
ATOM  49674  O   TYR R  34     177.806 124.832 -78.443  1.00 54.14       RS18
ATOM  49675  N   ARG R  35     176.567 126.417 -79.437  1.00 64.26       RS18
ATOM  49676  CA  ARG R  35     177.489 126.556 -80.554  1.00 64.26       RS18
ATOM  49677  CB  ARG R  35     176.758 126.306 -81.863  1.00 92.90       RS18
ATOM  49678  CG  ARG R  35     176.055 124.972 -81.916  1.00 92.90       RS18
ATOM  49679  CD  ARG R  35     175.302 124.825 -83.221  1.00 92.90       RS18
ATOM  49680  NE  ARG R  35     174.327 125.898 -83.383  1.00 92.90       RS18
ATOM  49681  CZ  ARG R  35     173.762 126.236 -84.538  1.00 92.90       RS18
ATOM  49682  NH1 ARG R  35     174.071 125.584 -85.653  1.00 92.90       RS18
ATOM  49683  NH2 ARG R  35     172.888 127.235 -84.576  1.00 92.90       RS18
ATOM  49684  C   ARG R  35     178.088 127.955 -80.557  1.00 64.26       RS18
ATOM  49685  O   ARG R  35     179.044 128.225 -81.293  1.00 64.26       RS18
ATOM  49686  N   ASN R  36     177.525 128.826 -79.713  1.00 49.16       RS18
ATOM  49687  CA  ASN R  36     177.941 130.229 -79.585  1.00 49.16       RS18
ATOM  49688  CB  ASN R  36     176.850 131.029 -78.862  1.00142.94       RS18
ATOM  49689  CG  ASN R  36     177.077 132.530 -78.933  1.00142.94       RS18
ATOM  49690  OD1 ASN R  36     176.306 133.312 -78.375  1.00142.94       RS18
ATOM  49691  ND2 ASN R  36     178.134 132.938 -79.622  1.00142.94       RS18
ATOM  49692  C   ASN R  36     179.271 130.407 -78.854  1.00 49.16       RS18
ATOM  49693  O   ASN R  36     179.383 131.214 -77.929  1.00 49.16       RS18
ATOM  49694  N   VAL R  37     180.272 129.650 -79.294  1.00 47.66       RS18
ATOM  49695  CA  VAL R  37     181.612 129.678 -78.728  1.00 47.66       RS18
ATOM  49696  CB  VAL R  37     182.635 129.245 -79.774  1.00 90.14       RS18
ATOM  49697  CG1 VAL R  37     183.985 129.026 -79.121  1.00 90.14       RS18
ATOM  49698  CG2 VAL R  37     182.148 127.989 -80.475  1.00 90.14       RS18
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ATOM  49699  C   VAL R  37     182.005 131.058 -78.231  1.00 47.66      RS18
ATOM  49700  O   VAL R  37     182.277 131.256 -77.049  1.00 47.66      RS18
ATOM  49701  N   GLU R  38     182.029 132.010 -79.152  1.00 87.47      RS18
ATOM  49702  CA  GLU R  38     182.395 133.383 -78.850  1.00 87.47      RS18
ATOM  49703  CB  GLU R  38     181.969 134.295 -80.008  1.00201.26      RS18
ATOM  49704  CG  GLU R  38     180.621 133.956 -80.649  1.00201.26      RS18
ATOM  49705  CD  GLU R  38     180.685 132.787 -81.631  1.00201.26      RS18
ATOM  49706  OE1 GLU R  38     180.960 131.646 -81.204  1.00201.26      RS18
ATOM  49707  OE2 GLU R  38     180.457 133.011 -82.839  1.00201.26      RS18
ATOM  49708  C   GLU R  38     181.876 133.942 -77.521  1.00 87.47      RS18
ATOM  49709  O   GLU R  38     182.558 134.742 -76.884  1.00 87.47      RS18
ATOM  49710  N   VAL R  39     180.688 133.526 -77.095  1.00 71.94      RS18
ATOM  49711  CA  VAL R  39     180.130 134.028 -75.838  1.00 71.94      RS18
ATOM  49712  CB  VAL R  39     178.609 134.245 -75.944  1.00 88.67      RS18
ATOM  49713  CG1 VAL R  39     177.892 132.909 -75.994  1.00 88.67      RS18
ATOM  49714  CG2 VAL R  39     178.124 135.055 -74.761  1.00 88.67      RS18
ATOM  49715  C   VAL R  39     180.389 133.091 -74.660  1.00 71.94      RS18
ATOM  49716  O   VAL R  39     180.667 133.533 -73.542  1.00 71.94      RS18
ATOM  49717  N   LEU R  40     180.286 131.793 -74.920  1.00 64.29      RS18
ATOM  49718  CA  LEU R  40     180.504 130.784 -73.899  1.00 64.29      RS18
ATOM  49719  CB  LEU R  40     180.239 129.410 -74.495  1.00 41.82      RS18
ATOM  49720  CG  LEU R  40     178.928 129.431 -75.277  1.00 41.82      RS18
ATOM  49721  CD1 LEU R  40     178.616 128.067 -75.891  1.00 41.82      RS18
ATOM  49722  CD2 LEU R  40     177.824 129.856 -74.337  1.00 41.82      RS18
ATOM  49723  C   LEU R  40     181.929 130.864 -73.379  1.00 64.29      RS18
ATOM  49724  O   LEU R  40     182.154 130.948 -72.169  1.00 64.29      RS18
ATOM  49725  N   LYS R  41     182.883 130.851 -74.308  1.00 72.78      RS18
ATOM  49726  CA  LYS R  41     184.308 130.920 -73.992  1.00 72.78      RS18
ATOM  49727  CB  LYS R  41     185.091 131.334 -75.237  1.00201.13      RS18
ATOM  49728  CG  LYS R  41     186.595 131.170 -75.120  1.00201.13      RS18
ATOM  49729  CD  LYS R  41     187.304 131.742 -76.341  1.00201.13      RS18
ATOM  49730  CE  LYS R  41     186.833 131.083 -77.631  1.00201.13      RS18
ATOM  49731  NZ  LYS R  41     187.444 131.717 -78.834  1.00201.13      RS18
ATOM  49732  C   LYS R  41     184.560 131.918 -72.869  1.00 72.78      RS18
ATOM  49733  O   LYS R  41     185.593 131.887 -72.204  1.00 72.78      RS18
ATOM  49734  N   ARG R  42     183.601 132.807 -72.665  1.00 61.52      RS18
ATOM  49735  CA  ARG R  42     183.704 133.809 -71.628  1.00 61.52      RS18
ATOM  49736  CB  ARG R  42     182.605 134.853 -71.820  1.00131.24      RS18
ATOM  49737  CG  ARG R  42     182.760 135.686 -73.072  1.00131.24      RS18
ATOM  49738  CD  ARG R  42     184.016 136.524 -72.978  1.00131.24      RS18
ATOM  49739  NE  ARG R  42     184.000 137.387 -71.799  1.00131.24      RS18
ATOM  49740  CZ  ARG R  42     183.180 138.422 -71.640  1.00131.24      RS18
ATOM  49741  NH1 ARG R  42     182.305 138.729 -72.589  1.00131.24      RS18
ATOM  49742  NH2 ARG R  42     183.234 139.152 -70.532  1.00131.24      RS18
ATOM  49743  C   ARG R  42     183.590 133.210 -70.228  1.00 61.52      RS18
ATOM  49744  O   ARG R  42     184.251 133.664 -69.295  1.00 61.52      RS18
ATOM  49745  N   PHE R  43     182.757 132.188 -70.080  1.00 48.91      RS18
ATOM  49746  CA  PHE R  43     182.554 131.595 -68.771  1.00 48.91      RS18
ATOM  49747  CB  PHE R  43     181.127 131.050 -68.674  1.00 59.67      RS18
ATOM  49748  CG  PHE R  43     180.081 132.110 -68.835  1.00 59.67      RS18
ATOM  49749  CD1 PHE R  43     179.504 132.358 -70.075  1.00 59.67      RS18
ATOM  49750  CD2 PHE R  43     179.723 132.918 -67.760  1.00 59.67      RS18
ATOM  49751  CE1 PHE R  43     178.584 133.403 -70.242  1.00 59.67      RS18
ATOM  49752  CE2 PHE R  43     178.808 133.961 -67.917  1.00 59.67      RS18
ATOM  49753  CZ  PHE R  43     178.239 134.204 -69.160  1.00 59.67      RS18
ATOM  49754  C   PHE R  43     183.566 130.546 -68.339  1.00 48.91      RS18
ATOM  49755  O   PHE R  43     183.418 129.942 -67.279  1.00 48.91      RS18
ATOM  49756  N   LEU R  44     184.597 130.331 -69.145  1.00 45.51      RS18
ATOM  49757  CA  LEU R  44     185.634 129.368 -68.791  1.00 45.51      RS18
ATOM  49758  CB  LEU R  44     186.010 128.522 -70.000  1.00 53.05      RS18
ATOM  49759  CG  LEU R  44     185.092 127.340 -70.288  1.00 53.05      RS18
ATOM  49760  CD1 LEU R  44     185.367 126.793 -71.672  1.00 53.05      RS18
ATOM  49761  CD2 LEU R  44     185.319 126.268 -69.243  1.00 53.05      RS18
ATOM  49762  C   LEU R  44     186.858 130.116 -68.287  1.00 45.51      RS18
ATOM  49763  O   LEU R  44     187.180 131.189 -68.789  1.00 45.51      RS18
ATOM  49764  N   SER R  45     187.545 129.567 -67.295  1.00 55.13      RS18
ATOM  49765  CA  SER R  45     188.729 130.240 -66.770  1.00 55.13      RS18
ATOM  49766  CB  SER R  45     189.148 129.626 -65.432  1.00 71.67      RS18
ATOM  49767  OG  SER R  45     189.440 128.244 -65.563  1.00 71.67      RS18
ATOM  49768  C   SER R  45     189.874 130.122 -67.764  1.00 55.13      RS18
ATOM  49769  O   SER R  45     189.661 129.934 -68.962  1.00 55.13      RS18
ATOM  49770  N   GLU R  46     191.094 130.242 -67.258  1.00 78.93      RS18
ATOM  49771  CA  GLU R  46     192.283 130.121 -68.086  1.00 78.93      RS18
ATOM  49772  CB  GLU R  46     193.432 130.912 -67.463  1.00201.26      RS18
ATOM  49773  CG  GLU R  46     193.135 132.401 -67.344  1.00201.26      RS18
ATOM  49774  CD  GLU R  46     191.830 132.681 -66.611  1.00201.26      RS18
ATOM  49775  OE1 GLU R  46     191.740 132.364 -65.405  1.00201.26      RS18
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ATOM  49776  OE2 GLU R  46     190.891 133.209 -67.245  1.00201.26       RS18
ATOM  49777  C   GLU R  46     192.582 128.629 -68.097  1.00 78.93       RS18
ATOM  49778  O   GLU R  46     193.702 128.189 -67.861  1.00 78.93       RS18
ATOM  49779  N   THR R  47     191.530 127.867 -68.363  1.00 63.34       RS18
ATOM  49780  CA  THR R  47     191.565 126.414 -68.418  1.00 63.34       RS18
ATOM  49781  CB  THR R  47     191.880 125.812 -67.035  1.00 44.72       RS18
ATOM  49782  OG1 THR R  47     193.156 126.283 -66.582  1.00 44.72       RS18
ATOM  49783  CG2 THR R  47     191.879 124.285 -67.102  1.00 44.72       RS18
ATOM  49784  C   THR R  47     190.142 126.021 -68.810  1.00 63.34       RS18
ATOM  49785  O   THR R  47     189.222 126.839 -68.719  1.00 63.34       RS18
ATOM  49786  N   GLY R  48     189.950 124.786 -69.253  1.00113.48       RS18
ATOM  49787  CA  GLY R  48     188.613 124.369 -69.625  1.00113.48       RS18
ATOM  49788  C   GLY R  48     187.760 124.227 -68.382  1.00113.48       RS18
ATOM  49789  O   GLY R  48     187.010 123.260 -68.247  1.00113.48       RS18
ATOM  49790  N   LYS R  49     187.877 125.190 -67.468  1.00 56.54       RS18
ATOM  49791  CA  LYS R  49     187.125 125.156 -66.221  1.00 56.54       RS18
ATOM  49792  CB  LYS R  49     188.071 125.336 -65.038  1.00 73.63       RS18
ATOM  49793  CG  LYS R  49     189.017 124.156 -64.866  1.00 73.63       RS18
ATOM  49794  CD  LYS R  49     189.947 124.320 -63.675  1.00 73.63       RS18
ATOM  49795  CE  LYS R  49     190.797 123.076 -63.467  1.00 73.63       RS18
ATOM  49796  NZ  LYS R  49     191.662 123.208 -62.264  1.00 73.63       RS18
ATOM  49797  C   LYS R  49     186.017 126.188 -66.171  1.00 56.54       RS18
ATOM  49798  O   LYS R  49     186.270 127.387 -66.222  1.00 56.54       RS18
ATOM  49799  N   ILE R  50     184.786 125.684 -66.089  1.00 41.85       RS18
ATOM  49800  CA  ILE R  50     183.565 126.478 -66.023  1.00 41.85       RS18
ATOM  49801  CB  ILE R  50     182.337 125.573 -66.003  1.00 38.33       RS18
ATOM  49802  CG2 ILE R  50     181.097 126.388 -65.718  1.00 38.33       RS18
ATOM  49803  CG1 ILE R  50     182.219 124.836 -67.332  1.00 38.33       RS18
ATOM  49804  CD1 ILE R  50     181.106 123.822 -67.367  1.00 38.33       RS18
ATOM  49805  C   ILE R  50     183.543 127.319 -64.763  1.00 41.85       RS18
ATOM  49806  O   ILE R  50     183.490 126.800 -63.647  1.00 41.85       RS18
ATOM  49807  N   LEU R  51     183.562 128.629 -64.946  1.00 56.19       RS18
ATOM  49808  CA  LEU R  51     183.568 129.549 -63.826  1.00 56.19       RS18
ATOM  49809  CB  LEU R  51     183.708 130.972 -64.348  1.00 43.51       RS18
ATOM  49810  CG  LEU R  51     185.099 131.293 -64.877  1.00 43.51       RS18
ATOM  49811  CD1 LEU R  51     184.981 132.301 -65.999  1.00 43.51       RS18
ATOM  49812  CD2 LEU R  51     185.975 131.805 -63.733  1.00 43.51       RS18
ATOM  49813  C   LEU R  51     182.366 129.466 -62.895  1.00 56.19       RS18
ATOM  49814  O   LEU R  51     181.260 129.103 -63.300  1.00 56.19       RS18
ATOM  49815  N   PRO R  52     182.588 129.806 -61.619  1.00 80.15       RS18
ATOM  49816  CD  PRO R  52     183.948 130.057 -61.126  1.00 33.02       RS18
ATOM  49817  CA  PRO R  52     181.637 129.830 -60.507  1.00 80.15       RS18
ATOM  49818  CB  PRO R  52     182.522 130.119 -59.303  1.00 33.02       RS18
ATOM  49819  CG  PRO R  52     183.846 129.606 -59.713  1.00 33.02       RS18
ATOM  49820  C   PRO R  52     180.643 130.953 -60.719  1.00 80.15       RS18
ATOM  49821  O   PRO R  52     180.760 131.714 -61.678  1.00 80.15       RS18
ATOM  49822  N   ARG R  53     179.671 131.068 -59.822  1.00 63.98       RS18
ATOM  49823  CA  ARG R  53     178.705 132.140 -59.949  1.00 63.98       RS18
ATOM  49824  CB  ARG R  53     177.413 131.788 -59.216  1.00123.14       RS18
ATOM  49825  CG  ARG R  53     176.682 130.607 -59.833  1.00123.14       RS18
ATOM  49826  CD  ARG R  53     175.181 130.713 -59.620  1.00123.14       RS18
ATOM  49827  NE  ARG R  53     174.803 130.621 -58.214  1.00123.14       RS18
ATOM  49828  CZ  ARG R  53     173.669 131.103 -57.718  1.00123.14       RS18
ATOM  49829  NH1 ARG R  53     172.808 131.714 -58.517  1.00123.14       RS18
ATOM  49830  NH2 ARG R  53     173.394 130.978 -56.427  1.00123.14       RS18
ATOM  49831  C   ARG R  53     179.331 133.417 -59.390  1.00 63.98       RS18
ATOM  49832  O   ARG R  53     178.931 134.528 -59.734  1.00 63.98       RS18
ATOM  49833  N   ARG R  54     180.332 133.253 -58.534  1.00 68.18       RS18
ATOM  49834  CA  ARG R  54     181.026 134.400 -57.964  1.00 68.18       RS18
ATOM  49835  CB  ARG R  54     181.943 133.939 -56.824  1.00201.26       RS18
ATOM  49836  CG  ARG R  54     182.505 132.539 -57.025  1.00201.26       RS18
ATOM  49837  CD  ARG R  54     183.461 132.122 -55.916  1.00201.26       RS18
ATOM  49838  NE  ARG R  54     184.754 132.793 -56.017  1.00201.26       RS18
ATOM  49839  CZ  ARG R  54     185.814 132.492 -55.271  1.00201.26       RS18
ATOM  49840  NH1 ARG R  54     185.737 131.527 -54.364  1.00201.26       RS18
ATOM  49841  NH2 ARG R  54     186.954 133.151 -55.436  1.00201.26       RS18
ATOM  49842  C   ARG R  54     181.845 135.092 -59.058  1.00 68.18       RS18
ATOM  49843  O   ARG R  54     182.573 136.045 -58.797  1.00 68.18       RS18
ATOM  49844  N   ARG R  55     181.701 134.612 -60.290  1.00 46.22       RS18
ATOM  49845  CA  ARG R  55     182.437 135.148 -61.430  1.00 46.22       RS18
ATOM  49846  CB  ARG R  55     183.605 134.223 -61.778  1.00129.44       RS18
ATOM  49847  CG  ARG R  55     184.743 134.235 -60.779  1.00129.44       RS18
ATOM  49848  CD  ARG R  55     185.601 135.484 -60.910  1.00129.44       RS18
ATOM  49849  NE  ARG R  55     186.342 135.522 -62.169  1.00129.44       RS18
ATOM  49850  CZ  ARG R  55     185.842 135.939 -63.329  1.00129.44       RS18
ATOM  49851  NH1 ARG R  55     184.588 136.365 -63.406  1.00129.44       RS18
ATOM  49852  NH2 ARG R  55     186.598 135.927 -64.419  1.00129.44       RS18
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ATOM  49853  C   ARG R  55     181.537 135.288 -62.646  1.00 46.22      RS18
ATOM  49854  O   ARG R  55     181.645 136.256 -63.393  1.00 46.22      RS18
ATOM  49855  N   THR R  56     180.677 134.304 -62.876  1.00 38.30      RS18
ATOM  49856  CA  THR R  56     179.765 134.394 -64.003  1.00 38.30      RS18
ATOM  49857  CB  THR R  56     179.128 133.039 -64.367  1.00 67.23      RS18
ATOM  49858  OG1 THR R  56     178.168 132.673 -63.371  1.00 67.23      RS18
ATOM  49859  CG2 THR R  56     180.188 131.959 -64.457  1.00 67.23      RS18
ATOM  49860  C   THR R  56     178.677 135.334 -63.524  1.00 38.30      RS18
ATOM  49861  O   THR R  56     178.343 136.296 -64.194  1.00 38.30      RS18
ATOM  49862  N   GLY R  57     178.140 135.063 -62.342  1.00 72.67      RS18
ATOM  49863  CA  GLY R  57     177.096 135.908 -61.795  1.00 72.67      RS18
ATOM  49864  C   GLY R  57     175.728 135.640 -62.388  1.00 72.67      RS18
ATOM  49865  O   GLY R  57     175.102 136.536 -62.947  1.00 72.67      RS18
ATOM  49866  N   LEU R  58     175.257 134.406 -62.284  1.00 65.70      RS18
ATOM  49867  CA  LEU R  58     173.941 134.080 -62.811  1.00 65.70      RS18
ATOM  49868  CB  LEU R  58     174.042 133.189 -64.052  1.00 37.38      RS18
ATOM  49869  CG  LEU R  58     175.385 132.944 -64.733  1.00 37.38      RS18
ATOM  49870  CD1 LEU R  58     175.162 131.992 -65.900  1.00 37.38      RS18
ATOM  49871  CD2 LEU R  58     175.987 134.250 -65.203  1.00 37.38      RS18
ATOM  49872  C   LEU R  58     173.153 133.352 -61.737  1.00 65.70      RS18
ATOM  49873  O   LEU R  58     173.720 132.921 -60.733  1.00 65.70      RS18
ATOM  49874  N   SER R  59     171.847 133.216 -61.947  1.00 41.47      RS18
ATOM  49875  CA  SER R  59     171.009 132.529 -60.984  1.00 41.47      RS18
ATOM  49876  CB  SER R  59     169.535 132.653 -61.371  1.00155.98      RS18
ATOM  49877  OG  SER R  59     169.231 131.826 -62.479  1.00155.98      RS18
ATOM  49878  C   SER R  59     171.400 131.053 -60.932  1.00 41.47      RS18
ATOM  49879  O   SER R  59     171.942 130.508 -61.897  1.00 41.47      RS18
ATOM  49880  N   GLY R  60     171.128 130.407 -59.801  1.00 39.05      RS18
ATOM  49881  CA  GLY R  60     171.453 129.005 -59.680  1.00 39.05      RS18
ATOM  49882  C   GLY R  60     170.866 128.352 -60.902  1.00 39.05      RS18
ATOM  49883  O   GLY R  60     171.429 127.411 -61.447  1.00 39.05      RS18
ATOM  49884  N   LYS R  61     169.733 128.889 -61.344  1.00 33.21      RS18
ATOM  49885  CA  LYS R  61     169.036 128.375 -62.514  1.00 33.21      RS18
ATOM  49886  CB  LYS R  61     167.609 128.933 -62.574  1.00 53.23      RS18
ATOM  49887  CG  LYS R  61     166.832 128.453 -63.791  1.00 53.23      RS18
ATOM  49888  CD  LYS R  61     165.371 128.863 -63.761  1.00 53.23      RS18
ATOM  49889  CE  LYS R  61     164.650 128.349 -64.999  1.00 53.23      RS18
ATOM  49890  NZ  LYS R  61     163.173 128.533 -64.929  1.00 53.23      RS18
ATOM  49891  C   LYS R  61     169.762 128.687 -63.818  1.00 33.21      RS18
ATOM  49892  O   LYS R  61     169.953 127.806 -64.653  1.00 33.21      RS18
ATOM  49893  N   GLU R  62     170.151 129.942 -63.999  1.00 33.87      RS18
ATOM  49894  CA  GLU R  62     170.857 130.334 -65.206  1.00 33.87      RS18
ATOM  49895  CB  GLU R  62     171.131 131.836 -65.208  1.00123.37      RS18
ATOM  49896  CG  GLU R  62     169.901 132.704 -65.073  1.00123.37      RS18
ATOM  49897  CD  GLU R  62     170.241 134.180 -65.049  1.00123.37      RS18
ATOM  49898  OE1 GLU R  62     171.123 134.573 -64.254  1.00123.37      RS18
ATOM  49899  OE2 GLU R  62     169.623 134.946 -65.821  1.00123.37      RS18
ATOM  49900  C   GLU R  62     172.182 129.591 -65.240  1.00 33.87      RS18
ATOM  49901  O   GLU R  62     172.523 128.948 -66.234  1.00 33.87      RS18
ATOM  49902  N   GLN R  63     172.922 129.683 -64.139  1.00 35.08      RS18
ATOM  49903  CA  GLN R  63     174.222 129.044 -64.024  1.00 35.08      RS18
ATOM  49904  CB  GLN R  63     174.788 129.263 -62.630  1.00 42.23      RS18
ATOM  49905  CG  GLN R  63     176.065 128.482 -62.339  1.00 42.23      RS18
ATOM  49906  CD  GLN R  63     177.284 129.052 -63.031  1.00 42.23      RS18
ATOM  49907  OE1 GLN R  63     177.216 130.102 -63.668  1.00 42.23      RS18
ATOM  49908  NE2 GLN R  63     178.415 128.362 -62.899  1.00 42.23      RS18
ATOM  49909  C   GLN R  63     174.119 127.560 -64.287  1.00 35.08      RS18
ATOM  49910  O   GLN R  63     175.004 126.959 -64.898  1.00 35.08      RS18
ATOM  49911  N   ARG R  64     173.033 126.969 -63.816  1.00 44.49      RS18
ATOM  49912  CA  ARG R  64     172.818 125.544 -63.995  1.00 44.49      RS18
ATOM  49913  CB  ARG R  64     171.528 125.129 -63.298  1.00 58.22      RS18
ATOM  49914  CG  ARG R  64     171.384 123.634 -63.093  1.00 58.22      RS18
ATOM  49915  CD  ARG R  64     170.085 123.336 -62.378  1.00 58.22      RS18
ATOM  49916  NE  ARG R  64     169.869 124.243 -61.256  1.00 58.22      RS18
ATOM  49917  CZ  ARG R  64     168.738 124.906 -61.045  1.00 58.22      RS18
ATOM  49918  NH1 ARG R  64     167.718 124.768 -61.882  1.00 58.22      RS18
ATOM  49919  NH2 ARG R  64     168.626 125.699 -59.994  1.00 58.22      RS18
ATOM  49920  C   ARG R  64     172.728 125.196 -65.471  1.00 44.49      RS18
ATOM  49921  O   ARG R  64     173.245 124.173 -65.913  1.00 44.49      RS18
ATOM  49922  N   ILE R  65     172.060 126.059 -66.226  1.00 57.97      RS18
ATOM  49923  CA  ILE R  65     171.871 125.866 -67.654  1.00 57.97      RS18
ATOM  49924  CB  ILE R  65     170.833 126.848 -68.177  1.00 61.49      RS18
ATOM  49925  CG2 ILE R  65     170.457 126.487 -69.596  1.00 61.49      RS18
ATOM  49926  CG1 ILE R  65     169.601 126.804 -67.273  1.00 61.49      RS18
ATOM  49927  CD1 ILE R  65     168.685 127.987 -67.426  1.00 61.49      RS18
ATOM  49928  C   ILE R  65     173.171 126.056 -68.427  1.00 57.97      RS18
ATOM  49929  O   ILE R  65     173.515 125.247 -69.291  1.00 57.97      RS18
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ATOM  49930  N   LEU R  66     173.891 127.132 -68.123  1.00 47.00      RS18
ATOM  49931  CA  LEU R  66     175.159 127.398 -68.791  1.00 47.00      RS18
ATOM  49932  CB  LEU R  66     175.926 128.500 -68.068  1.00 37.87      RS18
ATOM  49933  CG  LEU R  66     177.334 128.689 -68.630  1.00 37.87      RS18
ATOM  49934  CD1 LEU R  66     177.427 130.007 -69.373  1.00 37.87      RS18
ATOM  49935  CD2 LEU R  66     178.332 128.649 -67.506  1.00 37.87      RS18
ATOM  49936  C   LEU R  66     175.974 126.119 -68.753  1.00 47.00      RS18
ATOM  49937  O   LEU R  66     176.244 125.504 -69.785  1.00 47.00      RS18
ATOM  49938  N   ALA R  67     176.344 125.734 -67.533  1.00 47.74      RS18
ATOM  49939  CA  ALA R  67     177.124 124.530 -67.264  1.00 47.74      RS18
ATOM  49940  CB  ALA R  67     176.943 124.123 -65.818  1.00 33.52      RS18
ATOM  49941  C   ALA R  67     176.714 123.386 -68.173  1.00 47.74      RS18
ATOM  49942  O   ALA R  67     177.541 122.741 -68.805  1.00 47.74      RS18
ATOM  49943  N   LYS R  68     175.421 123.136 -68.229  1.00 39.08      RS18
ATOM  49944  CA  LYS R  68     174.909 122.076 -69.067  1.00 39.08      RS18
ATOM  49945  CB  LYS R  68     173.389 122.017 -68.934  1.00 74.91      RS18
ATOM  49946  CG  LYS R  68     172.736 120.855 -69.640  1.00 74.91      RS18
ATOM  49947  CD  LYS R  68     173.097 119.526 -69.005  1.00 74.91      RS18
ATOM  49948  CE  LYS R  68     171.840 118.689 -68.812  1.00 74.91      RS18
ATOM  49949  NZ  LYS R  68     170.930 118.756 -69.999  1.00 74.91      RS18
ATOM  49950  C   LYS R  68     175.310 122.364 -70.510  1.00 39.08      RS18
ATOM  49951  O   LYS R  68     175.851 121.504 -71.201  1.00 39.08      RS18
ATOM  49952  N   THR R  69     175.058 123.588 -70.957  1.00 65.85      RS18
ATOM  49953  CA  THR R  69     175.382 123.982 -72.323  1.00 65.85      RS18
ATOM  49954  CB  THR R  69     175.028 125.452 -72.558  1.00 48.63      RS18
ATOM  49955  OG1 THR R  69     173.604 125.598 -72.590  1.00 48.63      RS18
ATOM  49956  CG2 THR R  69     175.617 125.934 -73.868  1.00 48.63      RS18
ATOM  49957  C   THR R  69     176.851 123.769 -72.664  1.00 65.85      RS18
ATOM  49958  O   THR R  69     177.184 123.021 -73.576  1.00 65.85      RS18
ATOM  49959  N   ILE R  70     177.723 124.445 -71.931  1.00 44.11      RS18
ATOM  49960  CA  ILE R  70     179.153 124.328 -72.140  1.00 44.11      RS18
ATOM  49961  CB  ILE R  70     179.908 124.840 -70.934  1.00 29.04      RS18
ATOM  49962  CG2 ILE R  70     181.387 124.553 -71.072  1.00 29.04      RS18
ATOM  49963  CG1 ILE R  70     179.647 126.324 -70.785  1.00 29.04      RS18
ATOM  49964  CD1 ILE R  70     180.239 126.887 -69.532  1.00 29.04      RS18
ATOM  49965  C   ILE R  70     179.591 122.895 -72.380  1.00 44.11      RS18
ATOM  49966  O   ILE R  70     180.257 122.604 -73.372  1.00 44.11      RS18
ATOM  49967  N   LYS R  71     179.228 122.004 -71.464  1.00 38.56      RS18
ATOM  49968  CA  LYS R  71     179.613 120.607 -71.590  1.00 38.56      RS18
ATOM  49969  CB  LYS R  71     178.944 119.770 -70.502  1.00 50.05      RS18
ATOM  49970  CG  LYS R  71     179.529 120.004 -69.116  1.00 50.05      RS18
ATOM  49971  CD  LYS R  71     178.695 119.324 -68.048  1.00 50.05      RS18
ATOM  49972  CE  LYS R  71     179.176 119.689 -66.655  1.00 50.05      RS18
ATOM  49973  NZ  LYS R  71     178.256 119.173 -65.599  1.00 50.05      RS18
ATOM  49974  C   LYS R  71     179.297 120.043 -72.970  1.00 38.56      RS18
ATOM  49975  O   LYS R  71     180.041 119.199 -73.480  1.00 38.56      RS18
ATOM  49976  N   ARG R  72     178.200 120.515 -73.571  1.00 36.79      RS18
ATOM  49977  CA  ARG R  72     177.783 120.081 -74.910  1.00 36.79      RS18
ATOM  49978  CB  ARG R  72     176.413 120.661 -75.262  1.00 65.33      RS18
ATOM  49979  CG  ARG R  72     175.225 119.978 -74.603  1.00 65.33      RS18
ATOM  49980  CD  ARG R  72     173.924 120.706 -74.966  1.00 65.33      RS18
ATOM  49981  NE  ARG R  72     172.724 119.878 -74.819  1.00 65.33      RS18
ATOM  49982  CZ  ARG R  72     171.485 120.305 -75.059  1.00 65.33      RS18
ATOM  49983  NH1 ARG R  72     171.265 121.553 -75.456  1.00 65.33      RS18
ATOM  49984  NH2 ARG R  72     170.458 119.480 -74.909  1.00 65.33      RS18
ATOM  49985  C   ARG R  72     178.806 120.571 -75.925  1.00 36.79      RS18
ATOM  49986  O   ARG R  72     179.220 119.833 -76.813  1.00 36.79      RS18
ATOM  49987  N   ALA R  73     179.206 121.829 -75.779  1.00 39.87      RS18
ATOM  49988  CA  ALA R  73     180.181 122.438 -76.668  1.00 39.87      RS18
ATOM  49989  CB  ALA R  73     180.477 123.859 -76.222  1.00 29.48      RS18
ATOM  49990  C   ALA R  73     181.452 121.613 -76.642  1.00 39.87      RS18
ATOM  49991  O   ALA R  73     182.109 121.412 -77.668  1.00 39.87      RS18
ATOM  49992  N   ARG R  74     181.799 121.136 -75.457  1.00 34.22      RS18
ATOM  49993  CA  ARG R  74     182.996 120.330 -75.302  1.00 34.22      RS18
ATOM  49994  CB  ARG R  74     183.174 119.949 -73.829  1.00 32.37      RS18
ATOM  49995  CG  ARG R  74     183.499 121.146 -72.948  1.00 32.37      RS18
ATOM  49996  CD  ARG R  74     183.791 120.743 -71.530  1.00 32.37      RS18
ATOM  49997  NE  ARG R  74     184.208 121.888 -70.730  1.00 32.37      RS18
ATOM  49998  CZ  ARG R  74     184.339 121.866 -69.407  1.00 32.37      RS18
ATOM  49999  NH1 ARG R  74     184.078 120.756 -68.731  1.00 32.37      RS18
ATOM  50000  NH2 ARG R  74     184.743 122.948 -68.760  1.00 32.37      RS18
ATOM  50001  C   ARG R  74     182.930 119.093 -76.198  1.00 34.22      RS18
ATOM  50002  O   ARG R  74     183.825 118.865 -77.006  1.00 34.22      RS18
ATOM  50003  N   ILE R  75     181.871 118.304 -76.070  1.00 38.69      RS18
ATOM  50004  CA  ILE R  75     181.728 117.126 -76.912  1.00 38.69      RS18
ATOM  50005  CB  ILE R  75     180.380 116.430 -76.687  1.00 75.53      RS18
ATOM  50006  CG2 ILE R  75     180.114 115.453 -77.820  1.00 75.53      RS18
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ATOM  50007  CG1 ILE R  75     180.373 115.721 -75.334  1.00 75.53      RS18
ATOM  50008  CD1 ILE R  75     179.108 114.906 -75.077  1.00 75.53      RS18
ATOM  50009  C   ILE R  75     181.806 117.530 -78.387  1.00 38.69      RS18
ATOM  50010  O   ILE R  75     182.576 116.953 -79.159  1.00 38.69      RS18
ATOM  50011  N   LEU R  76     180.995 118.512 -78.776  1.00 69.84      RS18
ATOM  50012  CA  LEU R  76     180.992 118.985 -80.153  1.00 69.84      RS18
ATOM  50013  CB  LEU R  76     180.047 120.169 -80.328  1.00 38.32      RS18
ATOM  50014  CG  LEU R  76     178.547 119.891 -80.435  1.00 38.32      RS18
ATOM  50015  CD1 LEU R  76     177.863 121.127 -81.021  1.00 38.32      RS18
ATOM  50016  CD2 LEU R  76     178.294 118.686 -81.332  1.00 38.32      RS18
ATOM  50017  C   LEU R  76     182.389 119.408 -80.555  1.00 69.84      RS18
ATOM  50018  O   LEU R  76     182.722 119.426 -81.735  1.00 69.84      RS18
ATOM  50019  N   GLY R  77     183.196 119.770 -79.565  1.00 31.67      RS18
ATOM  50020  CA  GLY R  77     184.563 120.154 -79.843  1.00 31.67      RS18
ATOM  50021  C   GLY R  77     184.761 121.626 -80.088  1.00 31.67      RS18
ATOM  50022  O   GLY R  77     185.776 122.025 -80.628  1.00 31.67      RS18
ATOM  50023  N   LEU R  78     183.806 122.446 -79.691  1.00 52.72      RS18
ATOM  50024  CA  LEU R  78     183.952 123.877 -79.898  1.00 52.72      RS18
ATOM  50025  CB  LEU R  78     182.585 124.482 -80.142  1.00 52.75      RS18
ATOM  50026  CG  LEU R  78     181.930 123.567 -81.171  1.00 52.75      RS18
ATOM  50027  CD1 LEU R  78     180.480 123.935 -81.399  1.00 52.75      RS18
ATOM  50028  CD2 LEU R  78     182.730 123.653 -82.449  1.00 52.75      RS18
ATOM  50029  C   LEU R  78     184.616 124.497 -78.682  1.00 52.72      RS18
ATOM  50030  O   LEU R  78     185.336 125.493 -78.790  1.00 52.72      RS18
ATOM  50031  N   LEU R  79     184.375 123.887 -77.524  1.00 54.48      RS18
ATOM  50032  CA  LEU R  79     184.952 124.343 -76.266  1.00 54.48      RS18
ATOM  50033  CB  LEU R  79     183.853 124.741 -75.285  1.00 59.53      RS18
ATOM  50034  CG  LEU R  79     183.344 126.169 -75.445  1.00 59.53      RS18
ATOM  50035  CD1 LEU R  79     182.205 126.422 -74.470  1.00 59.53      RS18
ATOM  50036  CD2 LEU R  79     184.493 127.138 -75.205  1.00 59.53      RS18
ATOM  50037  C   LEU R  79     185.819 123.255 -75.654  1.00 54.48      RS18
ATOM  50038  O   LEU R  79     185.510 122.067 -75.736  1.00 54.48      RS18
ATOM  50039  N   PRO R  80     186.909 123.658 -75.004  1.00 35.05      RS18
ATOM  50040  CD  PRO R  80     187.139 125.067 -74.648  1.00 28.09      RS18
ATOM  50041  CA  PRO R  80     187.891 122.794 -74.348  1.00 35.05      RS18
ATOM  50042  CB  PRO R  80     188.999 123.760 -73.999  1.00 28.09      RS18
ATOM  50043  CG  PRO R  80     188.201 124.959 -73.567  1.00 28.09      RS18
ATOM  50044  C   PRO R  80     187.376 122.104 -73.103  1.00 35.05      RS18
ATOM  50045  O   PRO R  80     186.251 122.337 -72.665  1.00 35.05      RS18
ATOM  50046  N   PHE R  81     188.224 121.254 -72.534  1.00 76.69      RS18
ATOM  50047  CA  PHE R  81     187.896 120.548 -71.307  1.00 76.69      RS18
ATOM  50048  CB  PHE R  81     188.061 119.048 -71.474  1.00 58.78      RS18
ATOM  50049  CG  PHE R  81     186.933 118.390 -72.179  1.00 58.78      RS18
ATOM  50050  CD1 PHE R  81     186.691 118.644 -73.512  1.00 58.78      RS18
ATOM  50051  CD2 PHE R  81     186.134 117.476 -71.515  1.00 58.78      RS18
ATOM  50052  CE1 PHE R  81     185.669 117.991 -74.184  1.00 58.78      RS18
ATOM  50053  CE2 PHE R  81     185.108 116.817 -72.174  1.00 58.78      RS18
ATOM  50054  CZ  PHE R  81     184.875 117.073 -73.514  1.00 58.78      RS18
ATOM  50055  C   PHE R  81     188.862 121.028 -70.238  1.00 76.69      RS18
ATOM  50056  O   PHE R  81     188.545 120.996 -69.049  1.00 76.69      RS18
ATOM  50057  N   THR R  82     190.045 121.463 -70.672  1.00 53.91      RS18
ATOM  50058  CA  THR R  82     191.060 121.962 -69.752  1.00 53.91      RS18
ATOM  50059  CB  THR R  82     191.499 120.843 -68.779  1.00121.94      RS18
ATOM  50060  OG1 THR R  82     192.394 121.376 -67.796  1.00121.94      RS18
ATOM  50061  CG2 THR R  82     192.179 119.719 -69.535  1.00121.94      RS18
ATOM  50062  C   THR R  82     192.274 122.492 -70.515  1.00 53.91      RS18
ATOM  50063  O   THR R  82     192.831 121.792 -71.348  1.00 53.91      RS18
ATOM  50064  N   GLU R  83     192.678 123.729 -70.233  1.00 48.08      RS18
ATOM  50065  CA  GLU R  83     193.827 124.334 -70.908  1.00 48.08      RS18
ATOM  50066  CB  GLU R  83     193.525 125.789 -71.266  1.00197.05      RS18
ATOM  50067  CG  GLU R  83     192.233 126.002 -72.022  1.00197.05      RS18
ATOM  50068  CD  GLU R  83     191.953 127.470 -72.274  1.00197.05      RS18
ATOM  50069  OE1 GLU R  83     191.925 128.245 -71.295  1.00197.05      RS18
ATOM  50070  OE2 GLU R  83     191.760 127.849 -73.448  1.00197.05      RS18
ATOM  50071  C   GLU R  83     195.088 124.309 -70.043  1.00 48.08      RS18
ATOM  50072  O   GLU R  83     195.014 124.121 -68.833  1.00 48.08      RS18
ATOM  50073  N   LYS R  84     196.249 124.504 -70.665  1.00 69.00      RS18
ATOM  50074  CA  LYS R  84     197.511 124.536 -69.928  1.00 69.00      RS18
ATOM  50075  CB  LYS R  84     198.697 124.345 -70.877  1.00 94.26      RS18
ATOM  50076  CG  LYS R  84     198.951 122.923 -71.355  1.00 94.26      RS18
ATOM  50077  CD  LYS R  84     200.257 122.863 -72.160  1.00 94.26      RS18
ATOM  50078  CE  LYS R  84     200.694 121.432 -72.496  1.00 94.26      RS18
ATOM  50079  NZ  LYS R  84     202.012 121.393 -73.219  1.00 94.26      RS18
ATOM  50080  C   LYS R  84     197.644 125.903 -69.245  1.00 69.00      RS18
ATOM  50081  O   LYS R  84     197.379 126.935 -69.874  1.00 69.00      RS18
ATOM  50082  N   LEU R  85     198.048 125.921 -67.971  1.00 49.96      RS18
ATOM  50083  CA  LEU R  85     198.210 127.194 -67.260  1.00 49.96      RS18
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ATOM  50084  CB  LEU R  85     198.060 127.033 -65.749  1.00 90.82       RS18
ATOM  50085  CG  LEU R  85     198.439 128.345 -65.037  1.00 90.82       RS18
ATOM  50086  CD1 LEU R  85     197.464 129.443 -65.434  1.00 90.82       RS18
ATOM  50087  CD2 LEU R  85     198.440 128.157 -63.532  1.00 90.82       RS18
ATOM  50088  C   LEU R  85     199.548 127.853 -67.518  1.00 49.96       RS18
ATOM  50089  O   LEU R  85     200.595 127.346 -67.118  1.00 49.96       RS18
ATOM  50090  N   VAL R  86     199.498 129.008 -68.160  1.00 90.10       RS18
ATOM  50091  CA  VAL R  86     200.696 129.754 -68.479  1.00 90.10       RS18
ATOM  50092  CB  VAL R  86     200.449 130.621 -69.699  1.00 48.48       RS18
ATOM  50093  CG1 VAL R  86     201.597 131.588 -69.899  1.00 48.48       RS18
ATOM  50094  CG2 VAL R  86     200.277 129.724 -70.914  1.00 48.48       RS18
ATOM  50095  C   VAL R  86     201.150 130.622 -67.316  1.00 90.10       RS18
ATOM  50096  O   VAL R  86     200.355 130.949 -66.440  1.00 90.10       RS18
ATOM  50097  N   ARG R  87     202.433 130.982 -67.325  1.00103.78       RS18
ATOM  50098  CA  ARG R  87     203.067 131.808 -66.298  1.00103.78       RS18
ATOM  50099  CB  ARG R  87     202.063 132.786 -65.674  1.00201.26       RS18
ATOM  50100  CG  ARG R  87     201.392 133.717 -66.679  1.00201.26       RS18
ATOM  50101  CD  ARG R  87     202.397 134.290 -67.668  1.00201.26       RS18
ATOM  50102  NE  ARG R  87     203.632 134.711 -67.012  1.00201.26       RS18
ATOM  50103  CZ  ARG R  87     203.691 135.579 -66.007  1.00201.26       RS18
ATOM  50104  NH1 ARG R  87     202.581 136.128 -65.532  1.00201.26       RS18
ATOM  50105  NH2 ARG R  87     204.863 135.895 -65.473  1.00201.26       RS18
ATOM  50106  C   ARG R  87     203.716 130.950 -65.213  1.00103.78       RS18
ATOM  50107  O   ARG R  87     204.685 130.249 -65.487  1.00103.78       RS18
ATOM  50108  N   LYS R  88     203.190 130.999 -63.991  1.00161.19       RS18
ATOM  50109  CA  LYS R  88     203.741 130.220 -62.878  1.00161.19       RS18
ATOM  50110  CB  LYS R  88     203.409 128.729 -63.041  1.00 48.53       RS18
ATOM  50111  CG  LYS R  88     203.803 127.857 -61.844  1.00 48.53       RS18
ATOM  50112  CD  LYS R  88     203.408 126.381 -62.058  1.00 48.53       RS18
ATOM  50113  CE  LYS R  88     203.855 125.482 -60.880  1.00 48.53       RS18
ATOM  50114  NZ  LYS R  88     203.467 124.022 -60.955  1.00 48.53       RS18
ATOM  50115  C   LYS R  88     205.255 130.406 -62.778  1.00161.19       RS18
ATOM  50116  O   LYS R  88     205.748 131.438 -63.282  1.00161.19       RS18
ATOM  50117  OXT LYS R  88     205.931 129.534 -62.189  1.00 48.53       RS18
TER   50117       LYS R  88                                              RS18
ATOM  50118  CB  PRO S   2     254.308 114.398  14.613  1.00140.76       SS19
ATOM  50119  CG  PRO S   2     253.957 113.085  13.927  1.00140.76       SS19
ATOM  50120  C   PRO S   2     254.179 113.765  17.040  1.00114.76       SS19
ATOM  50121  O   PRO S   2     252.958 113.811  16.909  1.00114.76       SS19
ATOM  50122  N   PRO S   2     255.679 112.602  15.450  1.00114.76       SS19
ATOM  50123  CD  PRO S   2     255.202 112.204  14.113  1.00140.76       SS19
ATOM  50124  CA  PRO S   2     255.090 113.908  15.825  1.00114.76       SS19
ATOM  50125  N   ARG S   3     254.779 113.605  18.218  1.00201.26       SS19
ATOM  50126  CA  ARG S   3     254.025 113.435  19.461  1.00201.26       SS19
ATOM  50127  CB  ARG S   3     254.625 112.272  20.257  1.00201.26       SS19
ATOM  50128  CG  ARG S   3     254.540 110.949  19.506  1.00201.26       SS19
ATOM  50129  CD  ARG S   3     255.301 109.829  20.192  1.00201.26       SS19
ATOM  50130  NE  ARG S   3     255.155 108.574  19.458  1.00201.26       SS19
ATOM  50131  CZ  ARG S   3     255.808 107.454  19.744  1.00201.26       SS19
ATOM  50132  NH1 ARG S   3     256.666 107.418  20.755  1.00201.26       SS19
ATOM  50133  NH2 ARG S   3     255.603 106.366  19.016  1.00201.26       SS19
ATOM  50134  C   ARG S   3     253.947 114.701  20.324  1.00201.26       SS19
ATOM  50135  O   ARG S   3     254.430 115.758  19.920  1.00201.26       SS19
ATOM  50136  N   SER S   4     253.342 114.596  21.509  1.00 82.22       SS19
ATOM  50137  CA  SER S   4     253.197 115.765  22.379  1.00 82.22       SS19
ATOM  50138  CB  SER S   4     252.195 116.725  21.756  1.00 70.98       SS19
ATOM  50139  OG  SER S   4     251.017 116.040  21.364  1.00 70.98       SS19
ATOM  50140  C   SER S   4     252.796 115.537  23.839  1.00 82.22       SS19
ATOM  50141  O   SER S   4     251.989 114.666  24.155  1.00 82.22       SS19
ATOM  50142  N   LEU S   5     253.361 116.363  24.714  1.00 95.27       SS19
ATOM  50143  CA  LEU S   5     253.103 116.325  26.149  1.00 95.27       SS19
ATOM  50144  CB  LEU S   5     253.473 114.962  26.743  1.00160.79       SS19
ATOM  50145  CG  LEU S   5     252.302 113.982  26.889  1.00160.79       SS19
ATOM  50146  CD1 LEU S   5     252.789 112.661  27.469  1.00160.79       SS19
ATOM  50147  CD2 LEU S   5     251.236 114.601  27.786  1.00160.79       SS19
ATOM  50148  C   LEU S   5     253.895 117.432  26.838  1.00 95.27       SS19
ATOM  50149  O   LEU S   5     253.552 117.851  27.938  1.00 95.27       SS19
ATOM  50150  N   LYS S   6     254.958 117.893  26.177  1.00 64.29       SS19
ATOM  50151  CA  LYS S   6     255.816 118.984  26.657  1.00 64.29       SS19
ATOM  50152  CB  LYS S   6     254.974 120.030  27.397  1.00 66.64       SS19
ATOM  50153  CG  LYS S   6     253.712 120.449  26.665  1.00 66.64       SS19
ATOM  50154  CD  LYS S   6     252.797 121.217  27.592  1.00 66.64       SS19
ATOM  50155  CE  LYS S   6     251.423 121.474  26.973  1.00 66.64       SS19
ATOM  50156  NZ  LYS S   6     250.512 122.260  27.881  1.00 66.64       SS19
ATOM  50157  C   LYS S   6     256.978 118.549  27.545  1.00 64.29       SS19
ATOM  50158  O   LYS S   6     258.085 118.271  27.066  1.00 64.29       SS19
ATOM  50159  N   LYS S   7     256.711 118.524  28.846  1.00158.24       SS19
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ATOM  50160  CA  LYS S   7     257.684 118.131  29.853  1.00158.24      SS19
ATOM  50161  CB  LYS S   7     258.734 119.231  30.037  1.00 61.44      SS19
ATOM  50162  CG  LYS S   7     258.206 120.646  29.953  1.00 61.44      SS19
ATOM  50163  CD  LYS S   7     257.143 120.909  30.996  1.00 61.44      SS19
ATOM  50164  CE  LYS S   7     256.971 122.398  31.212  1.00 61.44      SS19
ATOM  50165  NZ  LYS S   7     256.839 123.157  29.926  1.00 61.44      SS19
ATOM  50166  C   LYS S   7     256.972 117.830  31.171  1.00158.24      SS19
ATOM  50167  O   LYS S   7     257.163 118.508  32.181  1.00158.24      SS19
ATOM  50168  N   GLY S   8     256.138 116.797  31.133  1.00119.88      SS19
ATOM  50169  CA  GLY S   8     255.391 116.380  32.300  1.00119.88      SS19
ATOM  50170  C   GLY S   8     254.719 115.049  32.019  1.00119.88      SS19
ATOM  50171  O   GLY S   8     253.503 114.922  32.175  1.00119.88      SS19
ATOM  50172  N   VAL S   9     255.512 114.067  31.587  1.00 87.51      SS19
ATOM  50173  CA  VAL S   9     255.023 112.720  31.277  1.00 87.51      SS19
ATOM  50174  CB  VAL S   9     256.112 111.670  31.497  1.00 56.37      SS19
ATOM  50175  CG1 VAL S   9     255.559 110.280  31.234  1.00 56.37      SS19
ATOM  50176  CG2 VAL S   9     257.295 111.967  30.610  1.00 56.37      SS19
ATOM  50177  C   VAL S   9     253.865 112.345  32.179  1.00 87.51      SS19
ATOM  50178  O   VAL S   9     253.949 112.535  33.389  1.00 87.51      SS19
ATOM  50179  N   PHE S  10     252.795 111.795  31.612  1.00 78.51      SS19
ATOM  50180  CA  PHE S  10     251.645 111.428  32.430  1.00 78.51      SS19
ATOM  50181  CB  PHE S  10     250.359 112.027  31.850  1.00 79.15      SS19
ATOM  50182  CG  PHE S  10     249.144 111.842  32.730  1.00 79.15      SS19
ATOM  50183  CD1 PHE S  10     248.470 112.944  33.238  1.00 79.15      SS19
ATOM  50184  CD2 PHE S  10     248.673 110.573  33.048  1.00 79.15      SS19
ATOM  50185  CE1 PHE S  10     247.342 112.787  34.048  1.00 79.15      SS19
ATOM  50186  CE2 PHE S  10     247.553 110.406  33.857  1.00 79.15      SS19
ATOM  50187  CZ  PHE S  10     246.885 111.515  34.358  1.00 79.15      SS19
ATOM  50188  C   PHE S  10     251.451 109.935  32.626  1.00 78.51      SS19
ATOM  50189  O   PHE S  10     251.606 109.138  31.703  1.00 78.51      SS19
ATOM  50190  N   VAL S  11     251.103 109.583  33.858  1.00 58.64      SS19
ATOM  50191  CA  VAL S  11     250.824 108.215  34.258  1.00 58.64      SS19
ATOM  50192  CB  VAL S  11     252.090 107.460  34.724  1.00 48.64      SS19
ATOM  50193  CG1 VAL S  11     251.711 106.084  35.236  1.00 48.64      SS19
ATOM  50194  CG2 VAL S  11     253.071 107.321  33.581  1.00 48.64      SS19
ATOM  50195  C   VAL S  11     249.891 108.355  35.445  1.00 58.64      SS19
ATOM  50196  O   VAL S  11     250.253 108.981  36.441  1.00 58.64      SS19
ATOM  50197  N   ASP S  12     248.686 107.800  35.336  1.00 62.47      SS19
ATOM  50198  CA  ASP S  12     247.730 107.877  36.436  1.00 62.47      SS19
ATOM  50199  CB  ASP S  12     246.416 107.171  36.078  1.00201.26      SS19
ATOM  50200  CG  ASP S  12     245.564 107.969  35.103  1.00201.26      SS19
ATOM  50201  OD1 ASP S  12     245.946 108.073  33.920  1.00201.26      SS19
ATOM  50202  OD2 ASP S  12     244.509 108.495  35.519  1.00201.26      SS19
ATOM  50203  C   ASP S  12     248.322 107.254  37.701  1.00 62.47      SS19
ATOM  50204  O   ASP S  12     248.822 106.121  37.699  1.00 62.47      SS19
ATOM  50205  N   ASP S  13     248.259 108.022  38.782  1.00 95.54      SS19
ATOM  50206  CA  ASP S  13     248.773 107.601  40.074  1.00 95.54      SS19
ATOM  50207  CB  ASP S  13     248.338 108.612  41.136  1.00155.60      SS19
ATOM  50208  CG  ASP S  13     247.009 109.261  40.805  1.00155.60      SS19
ATOM  50209  OD1 ASP S  13     246.927 109.944  39.761  1.00155.60      SS19
ATOM  50210  OD2 ASP S  13     246.046 109.088  41.584  1.00155.60      SS19
ATOM  50211  C   ASP S  13     248.364 106.190  40.496  1.00 95.54      SS19
ATOM  50212  O   ASP S  13     249.210 105.315  40.643  1.00 95.54      SS19
ATOM  50213  N   HIS S  14     247.069 105.963  40.682  1.00 53.45      SS19
ATOM  50214  CA  HIS S  14     246.586 104.658  41.121  1.00 53.45      SS19
ATOM  50215  CB  HIS S  14     245.066 104.563  40.954  1.00109.40      SS19
ATOM  50216  CG  HIS S  14     244.609 104.567  39.531  1.00109.40      SS19
ATOM  50217  CD2 HIS S  14     244.404 103.552  38.659  1.00109.40      SS19
ATOM  50218  ND1 HIS S  14     244.315 105.727  38.846  1.00109.40      SS19
ATOM  50219  CE1 HIS S  14     243.948 105.425  37.614  1.00109.40      SS19
ATOM  50220  NE2 HIS S  14     243.994 104.112  37.475  1.00109.40      SS19
ATOM  50221  C   HIS S  14     247.247 103.436  40.472  1.00 53.45      SS19
ATOM  50222  O   HIS S  14     247.595 102.483  41.165  1.00 53.45      SS19
ATOM  50223  N   LEU S  15     247.406 103.437  39.155  1.00116.69      SS19
ATOM  50224  CA  LEU S  15     248.035 102.292  38.507  1.00116.69      SS19
ATOM  50225  CB  LEU S  15     247.807 102.339  36.998  1.00113.93      SS19
ATOM  50226  CG  LEU S  15     248.420 103.526  36.255  1.00113.93      SS19
ATOM  50227  CD1 LEU S  15     249.899 103.282  35.993  1.00113.93      SS19
ATOM  50228  CD2 LEU S  15     247.691 103.712  34.944  1.00113.93      SS19
ATOM  50229  C   LEU S  15     249.517 102.373  38.816  1.00116.69      SS19
ATOM  50230  O   LEU S  15     250.221 101.363  38.874  1.00116.69      SS19
ATOM  50231  N   LEU S  16     249.973 103.604  39.016  1.00104.62      SS19
ATOM  50232  CA  LEU S  16     251.365 103.895  39.327  1.00104.62      SS19
ATOM  50233  CB  LEU S  16     251.608 105.394  39.174  1.00 90.36      SS19
ATOM  50234  CG  LEU S  16     252.912 105.944  39.740  1.00 90.36      SS19
ATOM  50235  CD1 LEU S  16     254.085 105.229  39.084  1.00 90.36      SS19
ATOM  50236  CD2 LEU S  16     252.974 107.449  39.497  1.00 90.36      SS19
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ATOM  50237  C   LEU S  16     251.732 103.462  40.743  1.00104.62      SS19
ATOM  50238  O   LEU S  16     252.429 102.466  40.944  1.00104.62      SS19
ATOM  50239  N   GLU S  17     251.257 104.220  41.724  1.00105.17      SS19
ATOM  50240  CA  GLU S  17     251.536 103.915  43.116  1.00105.17      SS19
ATOM  50241  CB  GLU S  17     250.946 104.997  44.025  1.00170.79      SS19
ATOM  50242  CG  GLU S  17     249.443 105.167  43.920  1.00170.79      SS19
ATOM  50243  CD  GLU S  17     248.929 106.299  44.790  1.00170.79      SS19
ATOM  50244  OE1 GLU S  17     247.694 106.483  44.867  1.00170.79      SS19
ATOM  50245  OE2 GLU S  17     249.761 107.007  45.397  1.00170.79      SS19
ATOM  50246  C   GLU S  17     250.983 102.545  43.484  1.00105.17      SS19
ATOM  50247  O   GLU S  17     250.754 102.247  44.651  1.00105.17      SS19
ATOM  50248  N   LYS S  18     250.762 101.719  42.472  1.00 76.00      SS19
ATOM  50249  CA  LYS S  18     250.269 100.367  42.669  1.00 76.00      SS19
ATOM  50250  CB  LYS S  18     248.897 100.165  42.031  1.00146.74      SS19
ATOM  50251  CG  LYS S  18     248.432  98.713  42.071  1.00146.74      SS19
ATOM  50252  CD  LYS S  18     247.201  98.475  41.210  1.00146.74      SS19
ATOM  50253  CE  LYS S  18     245.985  99.229  41.726  1.00146.74      SS19
ATOM  50254  NZ  LYS S  18     244.772  98.964  40.895  1.00146.74      SS19
ATOM  50255  C   LYS S  18     251.255  99.453  41.983  1.00 76.00      SS19
ATOM  50256  O   LYS S  18     251.502  98.344  42.443  1.00 76.00      SS19
ATOM  50257  N   VAL S  19     251.804  99.926  40.868  1.00108.10      SS19
ATOM  50258  CA  VAL S  19     252.773  99.149  40.107  1.00108.10      SS19
ATOM  50259  CB  VAL S  19     253.040  99.772  38.715  1.00 97.96      SS19
ATOM  50260  CG1 VAL S  19     253.561 101.193  38.860  1.00 97.96      SS19
ATOM  50261  CG2 VAL S  19     254.050  98.924  37.954  1.00 97.96      SS19
ATOM  50262  C   VAL S  19     254.085  99.091  40.869  1.00108.10      SS19
ATOM  50263  O   VAL S  19     254.766  98.065  40.879  1.00108.10      SS19
ATOM  50264  N   LEU S  20     254.425 100.201  41.515  1.00 93.13      SS19
ATOM  50265  CA  LEU S  20     255.660 100.304  42.278  1.00 93.13      SS19
ATOM  50266  CB  LEU S  20     256.020 101.779  42.477  1.00104.53      SS19
ATOM  50267  CG  LEU S  20     254.861 102.733  42.780  1.00104.53      SS19
ATOM  50268  CD1 LEU S  20     254.242 102.406  44.128  1.00104.53      SS19
ATOM  50269  CD2 LEU S  20     255.377 104.161  42.763  1.00104.53      SS19
ATOM  50270  C   LEU S  20     255.615  99.582  43.620  1.00 93.13      SS19
ATOM  50271  O   LEU S  20     256.643  99.114  44.107  1.00 93.13      SS19
ATOM  50272  N   GLU S  21     254.433  99.496  44.225  1.00121.34      SS19
ATOM  50273  CA  GLU S  21     254.306  98.807  45.505  1.00121.34      SS19
ATOM  50274  CB  GLU S  21     252.844  98.745  45.959  1.00168.94      SS19
ATOM  50275  CG  GLU S  21     252.201 100.084  46.268  1.00168.94      SS19
ATOM  50276  CD  GLU S  21     250.823  99.928  46.888  1.00168.94      SS19
ATOM  50277  OE1 GLU S  21     250.732  99.397  48.015  1.00168.94      SS19
ATOM  50278  OE2 GLU S  21     249.829 100.331  46.249  1.00168.94      SS19
ATOM  50279  C   GLU S  21     254.824  97.392  45.309  1.00121.34      SS19
ATOM  50280  O   GLU S  21     255.599  96.879  46.112  1.00121.34      SS19
ATOM  50281  N   LEU S  22     254.388  96.774  44.219  1.00 78.07      SS19
ATOM  50282  CA  LEU S  22     254.779  95.418  43.881  1.00 78.07      SS19
ATOM  50283  CB  LEU S  22     254.016  94.960  42.642  1.00141.19      SS19
ATOM  50284  CG  LEU S  22     252.546  95.387  42.678  1.00141.19      SS19
ATOM  50285  CD1 LEU S  22     251.877  95.037  41.368  1.00141.19      SS19
ATOM  50286  CD2 LEU S  22     251.839  94.726  43.851  1.00141.19      SS19
ATOM  50287  C   LEU S  22     256.271  95.408  43.614  1.00 78.07      SS19
ATOM  50288  O   LEU S  22     256.875  94.348  43.428  1.00 78.07      SS19
ATOM  50289  N   ASN S  23     256.854  96.605  43.578  1.00118.82      SS19
ATOM  50290  CA  ASN S  23     258.287  96.761  43.368  1.00118.82      SS19
ATOM  50291  CB  ASN S  23     258.595  97.983  42.495  1.00109.22      SS19
ATOM  50292  CG  ASN S  23     258.158  97.799  41.056  1.00109.22      SS19
ATOM  50293  OD1 ASN S  23     258.324  96.723  40.476  1.00109.22      SS19
ATOM  50294  ND2 ASN S  23     257.613  98.857  40.464  1.00109.22      SS19
ATOM  50295  C   ASN S  23     258.943  96.919  44.733  1.00118.82      SS19
ATOM  50296  O   ASN S  23     259.530  97.954  45.052  1.00118.82      SS19
ATOM  50297  N   ALA S  24     258.800  95.874  45.539  1.00195.24      SS19
ATOM  50298  CA  ALA S  24     259.361  95.805  46.880  1.00195.24      SS19
ATOM  50299  CB  ALA S  24     258.403  96.420  47.893  1.00 44.39      SS19
ATOM  50300  C   ALA S  24     259.519  94.316  47.132  1.00195.24      SS19
ATOM  50301  O   ALA S  24     260.229  93.889  48.042  1.00195.24      SS19
ATOM  50302  N   LYS S  25     258.839  93.535  46.298  1.00 92.28      SS19
ATOM  50303  CA  LYS S  25     258.880  92.080  46.365  1.00 92.28      SS19
ATOM  50304  CB  LYS S  25     257.521  91.519  46.798  1.00141.18      SS19
ATOM  50305  CG  LYS S  25     256.728  92.413  47.734  1.00141.18      SS19
ATOM  50306  CD  LYS S  25     256.066  93.549  46.970  1.00141.18      SS19
ATOM  50307  CE  LYS S  25     255.176  94.390  47.872  1.00141.18      SS19
ATOM  50308  NZ  LYS S  25     255.945  95.110  48.925  1.00141.18      SS19
ATOM  50309  C   LYS S  25     259.212  91.587  44.955  1.00 92.28      SS19
ATOM  50310  O   LYS S  25     259.160  90.385  44.657  1.00 92.28      SS19
ATOM  50311  N   GLY S  26     259.552  92.537  44.090  1.00198.02      SS19
ATOM  50312  CA  GLY S  26     259.885  92.214  42.717  1.00198.02      SS19
ATOM  50313  C   GLY S  26     258.751  92.583  41.781  1.00198.02      SS19
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ATOM  50314  O   GLY S  26     258.550  93.757  41.464  1.00198.02      SS19
ATOM  50315  N   GLU S  27     258.006  91.573  41.342  1.00200.91      SS19
ATOM  50316  CA  GLU S  27     256.882  91.777  40.436  1.00200.91      SS19
ATOM  50317  CB  GLU S  27     257.210  91.213  39.046  1.00198.32      SS19
ATOM  50318  CG  GLU S  27     258.551  91.663  38.459  1.00198.32      SS19
ATOM  50319  CD  GLU S  27     258.571  93.126  38.051  1.00198.32      SS19
ATOM  50320  OE1 GLU S  27     257.742  93.517  37.203  1.00198.32      SS19
ATOM  50321  OE2 GLU S  27     259.419  93.883  38.571  1.00198.32      SS19
ATOM  50322  C   GLU S  27     255.656  91.060  40.996  1.00200.91      SS19
ATOM  50323  O   GLU S  27     255.779  90.196  41.867  1.00200.91      SS19
ATOM  50324  N   LYS S  28     254.478  91.423  40.498  1.00142.10      SS19
ATOM  50325  CA  LYS S  28     253.238  90.798  40.942  1.00142.10      SS19
ATOM  50326  CB  LYS S  28     252.262  91.848  41.477  1.00201.20      SS19
ATOM  50327  CG  LYS S  28     251.000  91.261  42.106  1.00201.20      SS19
ATOM  50328  CD  LYS S  28     250.010  92.345  42.509  1.00201.20      SS19
ATOM  50329  CE  LYS S  28     248.754  91.752  43.129  1.00201.20      SS19
ATOM  50330  NZ  LYS S  28     247.766  92.806  43.489  1.00201.20      SS19
ATOM  50331  C   LYS S  28     252.595  90.040  39.787  1.00142.10      SS19
ATOM  50332  O   LYS S  28     253.036  90.143  38.642  1.00142.10      SS19
ATOM  50333  N   ARG S  29     251.543  89.289  40.094  1.00201.26      SS19
ATOM  50334  CA  ARG S  29     250.846  88.492  39.095  1.00201.26      SS19
ATOM  50335  CB  ARG S  29     250.465  87.136  39.698  1.00201.26      SS19
ATOM  50336  CG  ARG S  29     251.644  86.356  40.276  1.00201.26      SS19
ATOM  50337  CD  ARG S  29     251.188  85.048  40.912  1.00201.26      SS19
ATOM  50338  NE  ARG S  29     252.297  84.302  41.501  1.00201.26      SS19
ATOM  50339  CZ  ARG S  29     252.166  83.134  42.123  1.00201.26      SS19
ATOM  50340  NH1 ARG S  29     250.970  82.572  42.238  1.00201.26      SS19
ATOM  50341  NH2 ARG S  29     253.229  82.527  42.631  1.00201.26      SS19
ATOM  50342  C   ARG S  29     249.601  89.156  38.504  1.00201.26      SS19
ATOM  50343  O   ARG S  29     248.511  89.080  39.074  1.00201.26      SS19
ATOM  50344  N   LEU S  30     249.776  89.807  37.357  1.00101.94      SS19
ATOM  50345  CA  LEU S  30     248.680  90.461  36.649  1.00101.94      SS19
ATOM  50346  CB  LEU S  30     247.591  89.444  36.317  1.00 98.09      SS19
ATOM  50347  CG  LEU S  30     246.953  89.516  34.929  1.00 98.09      SS19
ATOM  50348  CD1 LEU S  30     245.593  88.834  34.984  1.00 98.09      SS19
ATOM  50349  CD2 LEU S  30     246.804  90.957  34.480  1.00 98.09      SS19
ATOM  50350  C   LEU S  30     248.040  91.611  37.403  1.00101.94      SS19
ATOM  50351  O   LEU S  30     247.800  91.527  38.600  1.00101.94      SS19
ATOM  50352  N   ILE S  31     247.753  92.682  36.678  1.00104.05      SS19
ATOM  50353  CA  ILE S  31     247.116  93.857  37.251  1.00104.05      SS19
ATOM  50354  CB  ILE S  31     248.037  95.081  37.164  1.00 90.82      SS19
ATOM  50355  CG2 ILE S  31     247.520  96.194  38.055  1.00 90.82      SS19
ATOM  50356  CG1 ILE S  31     249.457  94.680  37.571  1.00 90.82      SS19
ATOM  50357  CD1 ILE S  31     249.545  93.930  38.887  1.00 90.82      SS19
ATOM  50358  C   ILE S  31     245.878  94.099  36.400  1.00104.05      SS19
ATOM  50359  O   ILE S  31     245.363  93.168  35.789  1.00104.05      SS19
ATOM  50360  N   LYS S  32     245.400  95.337  36.357  1.00 93.57      SS19
ATOM  50361  CA  LYS S  32     244.229  95.682  35.554  1.00 93.57      SS19
ATOM  50362  CB  LYS S  32     243.034  94.769  35.879  1.00142.16      SS19
ATOM  50363  CG  LYS S  32     242.590  94.761  37.335  1.00142.16      SS19
ATOM  50364  CD  LYS S  32     241.275  93.998  37.533  1.00142.16      SS19
ATOM  50365  CE  LYS S  32     241.394  92.508  37.209  1.00142.16      SS19
ATOM  50366  NZ  LYS S  32     241.543  92.222  35.753  1.00142.16      SS19
ATOM  50367  C   LYS S  32     243.847  97.132  35.779  1.00 93.57      SS19
ATOM  50368  O   LYS S  32     243.141  97.465  36.731  1.00 93.57      SS19
ATOM  50369  N   THR S  33     244.322  97.995  34.889  1.00 74.15      SS19
ATOM  50370  CA  THR S  33     244.043  99.415  34.995  1.00 74.15      SS19
ATOM  50371  CB  THR S  33     245.304 100.246  34.704  1.00176.29      SS19
ATOM  50372  OG1 THR S  33     246.366  99.821  35.568  1.00176.29      SS19
ATOM  50373  CG2 THR S  33     245.034 101.724  34.938  1.00176.29      SS19
ATOM  50374  C   THR S  33     242.948  99.840  34.034  1.00 74.15      SS19
ATOM  50375  O   THR S  33     242.602  99.110  33.101  1.00 74.15      SS19
ATOM  50376  N   TRP S  34     242.398 101.022  34.287  1.00 84.58      SS19
ATOM  50377  CA  TRP S  34     241.358 101.582  33.444  1.00 84.58      SS19
ATOM  50378  CB  TRP S  34     240.168 102.026  34.283  1.00 92.75      SS19
ATOM  50379  CG  TRP S  34     239.086 101.025  34.289  1.00 92.75      SS19
ATOM  50380  CD2 TRP S  34     239.054  99.807  35.038  1.00 92.75      SS19
ATOM  50381  CE2 TRP S  34     237.845  99.155  34.719  1.00 92.75      SS19
ATOM  50382  CE3 TRP S  34     239.932  99.201  35.949  1.00 92.75      SS19
ATOM  50383  CD1 TRP S  34     237.937 101.064  33.567  1.00 92.75      SS19
ATOM  50384  NE1 TRP S  34     237.182  99.946  33.818  1.00 92.75      SS19
ATOM  50385  CZ2 TRP S  34     237.483  97.926  35.282  1.00 92.75      SS19
ATOM  50386  CZ3 TRP S  34     239.572  97.975  36.510  1.00 92.75      SS19
ATOM  50387  CH2 TRP S  34     238.358  97.353  36.172  1.00 92.75      SS19
ATOM  50388  C   TRP S  34     241.917 102.768  32.692  1.00 84.58      SS19
ATOM  50389  O   TRP S  34     241.503 103.056  31.571  1.00 84.58      SS19
ATOM  50390  N   SER S  35     242.863 103.459  33.317  1.00142.81      SS19
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ATOM	50391	CA	SER	S	35	243.477	104.614	32.690	1.00142.81	SS19
ATOM	50392	CB	SER	S	35	244.174	105.491	33.733	1.00187.09	SS19
ATOM	50393	OG	SER	S	35	243.231	106.220	34.502	1.00187.09	SS19
ATOM	50394	C	SER	S	35	244.470	104.185	31.624	1.00142.81	SS19
ATOM	50395	O	SER	S	35	245.677	104.133	31.859	1.00142.81	SS19
ATOM	50396	N	ARG	S	36	243.945	103.858	30.450	1.00 75.78	SS19
ATOM	50397	CA	ARG	S	36	244.786	103.465	29.339	1.00 75.78	SS19
ATOM	50398	CB	ARG	S	36	243.927	102.849	28.217	1.00 48.33	SS19
ATOM	50399	CG	ARG	S	36	242.911	103.775	27.543	1.00 48.33	SS19
ATOM	50400	CD	ARG	S	36	241.597	103.048	27.196	1.00 48.33	SS19
ATOM	50401	NE	ARG	S	36	241.775	101.711	26.621	1.00 48.33	SS19
ATOM	50402	CZ	ARG	S	36	242.171	101.455	25.372	1.00 48.33	SS19
ATOM	50403	NH1	ARG	S	36	242.438	102.449	24.538	1.00 48.33	SS19
ATOM	50404	NH2	ARG	S	36	242.294	100.198	24.949	1.00 48.33	SS19
ATOM	50405	C	ARG	S	36	245.464	104.761	28.902	1.00 75.78	SS19
ATOM	50406	O	ARG	S	36	246.288	104.779	27.992	1.00 75.78	SS19
ATOM	50407	N	ARG	S	37	245.107	105.838	29.599	1.00 64.56	SS19
ATOM	50408	CA	ARG	S	37	245.632	107.189	29.370	1.00 64.56	SS19
ATOM	50409	CB	ARG	S	37	244.843	108.201	30.210	1.00199.77	SS19
ATOM	50410	CG	ARG	S	37	243.337	108.103	30.097	1.00199.77	SS19
ATOM	50411	CD	ARG	S	37	242.850	108.744	28.819	1.00199.77	SS19
ATOM	50412	NE	ARG	S	37	241.418	108.556	28.626	1.00199.77	SS19
ATOM	50413	CZ	ARG	S	37	240.723	109.098	27.631	1.00199.77	SS19
ATOM	50414	NH1	ARG	S	37	241.332	109.868	26.738	1.00199.77	SS19
ATOM	50415	NH2	ARG	S	37	239.422	108.865	27.523	1.00199.77	SS19
ATOM	50416	C	ARG	S	37	247.104	107.282	29.787	1.00 64.56	SS19
ATOM	50417	O	ARG	S	37	247.885	108.064	29.232	1.00 64.56	SS19
ATOM	50418	N	SER	S	38	247.451	106.488	30.793	1.00 88.20	SS19
ATOM	50419	CA	SER	S	38	248.790	106.455	31.356	1.00 88.20	SS19
ATOM	50420	CB	SER	S	38	248.813	105.494	32.535	1.00 81.79	SS19
ATOM	50421	OG	SER	S	38	248.320	104.228	32.137	1.00 81.79	SS19
ATOM	50422	C	SER	S	38	249.879	106.068	30.372	1.00 88.20	SS19
ATOM	50423	O	SER	S	38	249.654	105.301	29.437	1.00 88.20	SS19
ATOM	50424	N	THR	S	39	251.068	106.609	30.610	1.00 94.35	SS19
ATOM	50425	CA	THR	S	39	252.236	106.353	29.780	1.00 94.35	SS19
ATOM	50426	CB	THR	S	39	253.149	107.585	29.730	1.00 61.87	SS19
ATOM	50427	OG1	THR	S	39	252.401	108.729	29.293	1.00 61.87	SS19
ATOM	50428	CG2	THR	S	39	254.320	107.334	28.797	1.00 61.87	SS19
ATOM	50429	C	THR	S	39	253.035	105.227	30.416	1.00 94.35	SS19
ATOM	50430	O	THR	S	39	253.178	105.195	31.636	1.00 94.35	SS19
ATOM	50431	N	ILE	S	40	253.552	104.300	29.614	1.00 61.09	SS19
ATOM	50432	CA	ILE	S	40	254.350	103.229	30.195	1.00 61.09	SS19
ATOM	50433	CB	ILE	S	40	254.553	102.030	29.244	1.00 63.21	SS19
ATOM	50434	CG2	ILE	S	40	255.808	101.259	29.640	1.00 63.21	SS19
ATOM	50435	CG1	ILE	S	40	253.334	101.105	29.303	1.00 63.21	SS19
ATOM	50436	CD1	ILE	S	40	253.484	99.813	28.504	1.00 63.21	SS19
ATOM	50437	C	ILE	S	40	255.707	103.807	30.539	1.00 61.09	SS19
ATOM	50438	O	ILE	S	40	256.303	104.535	29.748	1.00 61.09	SS19
ATOM	50439	N	VAL	S	41	256.180	103.490	31.737	1.00105.58	SS19
ATOM	50440	CA	VAL	S	41	257.466	103.972	32.204	1.00105.58	SS19
ATOM	50441	CB	VAL	S	41	257.286	105.026	33.320	1.00105.83	SS19
ATOM	50442	CG1	VAL	S	41	256.561	106.243	32.768	1.00105.83	SS19
ATOM	50443	CG2	VAL	S	41	256.499	104.436	34.472	1.00105.83	SS19
ATOM	50444	C	VAL	S	41	258.248	102.779	32.734	1.00105.58	SS19
ATOM	50445	O	VAL	S	41	257.660	101.761	33.105	1.00105.58	SS19
ATOM	50446	N	PRO	S	42	259.585	102.893	32.781	1.00 76.96	SS19
ATOM	50447	CD	PRO	S	42	260.329	104.164	32.675	1.00151.75	SS19
ATOM	50448	CA	PRO	S	42	260.465	101.824	33.261	1.00 76.96	SS19
ATOM	50449	CB	PRO	S	42	261.576	102.600	33.952	1.00151.75	SS19
ATOM	50450	CG	PRO	S	42	261.759	103.751	33.010	1.00151.75	SS19
ATOM	50451	C	PRO	S	42	259.796	100.797	34.172	1.00 76.96	SS19
ATOM	50452	O	PRO	S	42	259.286	99.783	33.700	1.00 76.96	SS19
ATOM	50453	N	GLU	S	43	259.801	101.070	35.473	1.00 88.74	SS19
ATOM	50454	CA	GLU	S	43	259.204	100.177	36.462	1.00 88.74	SS19
ATOM	50455	CB	GLU	S	43	258.512	100.996	37.557	1.00108.54	SS19
ATOM	50456	CG	GLU	S	43	257.853	102.270	37.056	1.00108.54	SS19
ATOM	50457	CD	GLU	S	43	258.863	103.348	36.710	1.00108.54	SS19
ATOM	50458	OE1	GLU	S	43	259.418	103.971	37.641	1.00108.54	SS19
ATOM	50459	OE2	GLU	S	43	259.108	103.564	35.505	1.00108.54	SS19
ATOM	50460	C	GLU	S	43	258.219	99.173	35.870	1.00 88.74	SS19
ATOM	50461	O	GLU	S	43	258.377	97.965	36.040	1.00 88.74	SS19
ATOM	50462	N	MET	S	44	257.213	99.684	35.167	1.00 65.37	SS19
ATOM	50463	CA	MET	S	44	256.196	98.846	34.552	1.00 65.37	SS19
ATOM	50464	CB	MET	S	44	255.330	99.681	33.615	1.00101.18	SS19
ATOM	50465	CG	MET	S	44	254.299	100.529	34.325	1.00101.18	SS19
ATOM	50466	SD	MET	S	44	253.580	101.762	33.229	1.00101.18	SS19
ATOM	50467	CE	MET	S	44	253.491	103.181	34.327	1.00101.18	SS19

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ATOM  50468  C   MET S  44     256.775  97.667  33.788  1.00 65.37      SS19
ATOM  50469  O   MET S  44     256.113  96.639  33.646  1.00 65.37      SS19
ATOM  50470  N   VAL S  45     258.006  97.802  33.306  1.00 66.73      SS19
ATOM  50471  CA  VAL S  45     258.640  96.725  32.549  1.00 66.73      SS19
ATOM  50472  CB  VAL S  45     260.145  96.991  32.340  1.00 70.96      SS19
ATOM  50473  CG1 VAL S  45     260.750  95.889  31.472  1.00 70.96      SS19
ATOM  50474  CG2 VAL S  45     260.351  98.350  31.688  1.00 70.96      SS19
ATOM  50475  C   VAL S  45     258.481  95.364  33.228  1.00 66.73      SS19
ATOM  50476  O   VAL S  45     258.175  95.284  34.419  1.00 66.73      SS19
ATOM  50477  N   GLY S  46     258.676  94.296  32.459  1.00 93.11      SS19
ATOM  50478  CA  GLY S  46     258.562  92.952  33.000  1.00 93.11      SS19
ATOM  50479  C   GLY S  46     257.201  92.614  33.578  1.00 93.11      SS19
ATOM  50480  O   GLY S  46     256.916  91.447  33.859  1.00 93.11      SS19
ATOM  50481  N   HIS S  47     256.357  93.625  33.758  1.00 84.24      SS19
ATOM  50482  CA  HIS S  47     255.026  93.407  34.307  1.00 84.24      SS19
ATOM  50483  CB  HIS S  47     254.499  94.687  34.960  1.00125.59      SS19
ATOM  50484  CG  HIS S  47     254.907  94.846  36.390  1.00125.59      SS19
ATOM  50485  CD2 HIS S  47     255.681  95.774  37.001  1.00125.59      SS19
ATOM  50486  ND1 HIS S  47     254.510  93.968  37.376  1.00125.59      SS19
ATOM  50487  CE1 HIS S  47     255.024  94.349  38.533  1.00125.59      SS19
ATOM  50488  NE2 HIS S  47     255.738  95.442  38.332  1.00125.59      SS19
ATOM  50489  C   HIS S  47     254.017  92.922  33.279  1.00 84.24      SS19
ATOM  50490  O   HIS S  47     254.304  92.868  32.083  1.00 84.24      SS19
ATOM  50491  N   THR S  48     252.835  92.559  33.768  1.00 73.89      SS19
ATOM  50492  CA  THR S  48     251.749  92.092  32.924  1.00 73.89      SS19
ATOM  50493  CB  THR S  48     251.479  90.592  33.123  1.00133.12      SS19
ATOM  50494  OG1 THR S  48     252.693  89.857  32.940  1.00133.12      SS19
ATOM  50495  CG2 THR S  48     250.450  90.103  32.120  1.00133.12      SS19
ATOM  50496  C   THR S  48     250.524  92.867  33.368  1.00 73.89      SS19
ATOM  50497  O   THR S  48     249.875  92.505  34.349  1.00 73.89      SS19
ATOM  50498  N   ILE S  49     250.219  93.945  32.658  1.00120.83      SS19
ATOM  50499  CA  ILE S  49     249.065  94.762  32.998  1.00120.83      SS19
ATOM  50500  CB  ILE S  49     249.371  96.245  32.827  1.00 60.02      SS19
ATOM  50501  CG2 ILE S  49     248.174  97.077  33.274  1.00 60.02      SS19
ATOM  50502  CG1 ILE S  49     250.624  96.599  33.618  1.00 60.02      SS19
ATOM  50503  CD1 ILE S  49     251.053  98.055  33.471  1.00 60.02      SS19
ATOM  50504  C   ILE S  49     247.873  94.429  32.119  1.00120.83      SS19
ATOM  50505  O   ILE S  49     248.026  94.055  30.957  1.00120.83      SS19
ATOM  50506  N   ALA S  50     246.680  94.567  32.681  1.00109.00      SS19
ATOM  50507  CA  ALA S  50     245.466  94.296  31.934  1.00109.00      SS19
ATOM  50508  CB  ALA S  50     244.520  93.440  32.759  1.00 84.93      SS19
ATOM  50509  C   ALA S  50     244.817  95.626  31.601  1.00109.00      SS19
ATOM  50510  O   ALA S  50     244.561  96.443  32.486  1.00109.00      SS19
ATOM  50511  N   VAL S  51     244.570  95.852  30.317  1.00 78.00      SS19
ATOM  50512  CA  VAL S  51     243.941  97.092  29.900  1.00 78.00      SS19
ATOM  50513  CB  VAL S  51     244.745  97.783  28.762  1.00 63.09      SS19
ATOM  50514  CG1 VAL S  51     244.326  99.242  28.628  1.00 63.09      SS19
ATOM  50515  CG2 VAL S  51     246.233  97.699  29.052  1.00 63.09      SS19
ATOM  50516  C   VAL S  51     242.510  96.802  29.446  1.00 78.00      SS19
ATOM  50517  O   VAL S  51     242.191  95.702  28.984  1.00 78.00      SS19
ATOM  50518  N   TYR S  52     241.654  97.804  29.593  1.00 79.28      SS19
ATOM  50519  CA  TYR S  52     240.248  97.691  29.242  1.00 79.28      SS19
ATOM  50520  CB  TYR S  52     239.432  98.526  30.243  1.00 68.35      SS19
ATOM  50521  CG  TYR S  52     237.977  98.150  30.367  1.00 68.35      SS19
ATOM  50522  CD1 TYR S  52     237.587  96.816  30.470  1.00 68.35      SS19
ATOM  50523  CE1 TYR S  52     236.247  96.462  30.609  1.00 68.35      SS19
ATOM  50524  CD2 TYR S  52     236.988  99.130  30.407  1.00 68.35      SS19
ATOM  50525  CE2 TYR S  52     235.640  98.787  30.549  1.00 68.35      SS19
ATOM  50526  CZ  TYR S  52     235.278  97.451  30.648  1.00 68.35      SS19
ATOM  50527  OH  TYR S  52     233.954  97.103  30.775  1.00 68.35      SS19
ATOM  50528  C   TYR S  52     239.975  98.145  27.805  1.00 79.28      SS19
ATOM  50529  O   TYR S  52     240.472  99.182  27.365  1.00 79.28      SS19
ATOM  50530  N   ASN S  53     239.199  97.352  27.072  1.00 72.51      SS19
ATOM  50531  CA  ASN S  53     238.848  97.687  25.698  1.00 72.51      SS19
ATOM  50532  CB  ASN S  53     238.339  96.466  24.945  1.00 71.94      SS19
ATOM  50533  CG  ASN S  53     239.311  95.332  24.953  1.00 71.94      SS19
ATOM  50534  OD1 ASN S  53     239.085  94.306  24.311  1.00 71.94      SS19
ATOM  50535  ND2 ASN S  53     240.407  95.496  25.683  1.00 71.94      SS19
ATOM  50536  C   ASN S  53     237.695  98.649  25.795  1.00 72.51      SS19
ATOM  50537  O   ASN S  53     237.522  99.540  24.972  1.00 72.51      SS19
ATOM  50538  N   GLY S  54     236.907  98.438  26.835  1.00 57.39      SS19
ATOM  50539  CA  GLY S  54     235.717  99.222  27.064  1.00 57.39      SS19
ATOM  50540  C   GLY S  54     234.739  98.085  27.209  1.00 57.39      SS19
ATOM  50541  O   GLY S  54     233.531  98.263  27.369  1.00 57.39      SS19
ATOM  50542  N   LYS S  55     235.309  96.885  27.146  1.00 69.64      SS19
ATOM  50543  CA  LYS S  55     234.554  95.656  27.267  1.00 69.64      SS19
ATOM  50544  CB  LYS S  55     234.246  95.082  25.883  1.00 87.98      SS19
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ATOM  50545  CG  LYS S  55     233.483  93.775  25.947  1.00 87.98      SS19
ATOM  50546  CD  LYS S  55     233.446  93.057  24.617  1.00 87.98      SS19
ATOM  50547  CE  LYS S  55     232.773  91.697  24.765  1.00 87.98      SS19
ATOM  50548  NZ  LYS S  55     232.764  90.920  23.495  1.00 87.98      SS19
ATOM  50549  C   LYS S  55     235.319  94.618  28.085  1.00 69.64      SS19
ATOM  50550  O   LYS S  55     234.766  94.022  29.005  1.00 69.64      SS19
ATOM  50551  N   GLN S  56     236.592  94.411  27.759  1.00 76.17      SS19
ATOM  50552  CA  GLN S  56     237.397  93.415  28.462  1.00 76.17      SS19
ATOM  50553  CB  GLN S  56     237.696  92.244  27.524  1.00140.69      SS19
ATOM  50554  CG  GLN S  56     236.473  91.653  26.853  1.00140.69      SS19
ATOM  50555  CD  GLN S  56     235.502  91.041  27.841  1.00140.69      SS19
ATOM  50556  OE1 GLN S  56     235.836  90.092  28.552  1.00140.69      SS19
ATOM  50557  NE2 GLN S  56     234.290  91.581  27.891  1.00140.69      SS19
ATOM  50558  C   GLN S  56     238.719  93.939  29.030  1.00 76.17      SS19
ATOM  50559  O   GLN S  56     239.091  95.095  28.829  1.00 76.17      SS19
ATOM  50560  N   HIS S  57     239.423  93.061  29.740  1.00 89.21      SS19
ATOM  50561  CA  HIS S  57     240.715  93.379  30.336  1.00 89.21      SS19
ATOM  50562  CB  HIS S  57     240.688  93.120  31.839  1.00 74.44      SS19
ATOM  50563  CG  HIS S  57     240.099  94.243  32.622  1.00 74.44      SS19
ATOM  50564  CD2 HIS S  57     238.942  94.338  33.317  1.00 74.44      SS19
ATOM  50565  ND1 HIS S  57     240.698  95.482  32.700  1.00 74.44      SS19
ATOM  50566  CE1 HIS S  57     239.934  96.293  33.408  1.00 74.44      SS19
ATOM  50567  NE2 HIS S  57     238.862  95.623  33.793  1.00 74.44      SS19
ATOM  50568  C   HIS S  57     241.782  92.517  29.695  1.00 89.21      SS19
ATOM  50569  O   HIS S  57     241.910  91.335  30.010  1.00 89.21      SS19
ATOM  50570  N   VAL S  58     242.556  93.116  28.800  1.00 76.17      SS19
ATOM  50571  CA  VAL S  58     243.597  92.382  28.103  1.00 76.17      SS19
ATOM  50572  CB  VAL S  58     243.706  92.839  26.656  1.00 93.18      SS19
ATOM  50573  CG1 VAL S  58     242.523  92.305  25.875  1.00 93.18      SS19
ATOM  50574  CG2 VAL S  58     243.755  94.361  26.596  1.00 93.18      SS19
ATOM  50575  C   VAL S  58     244.978  92.448  28.720  1.00 76.17      SS19
ATOM  50576  O   VAL S  58     245.488  93.526  29.036  1.00 76.17      SS19
ATOM  50577  N   PRO S  59     245.601  91.277  28.894  1.00 68.14      SS19
ATOM  50578  CD  PRO S  59     245.023  89.966  28.559  1.00 79.78      SS19
ATOM  50579  CA  PRO S  59     246.937  91.118  29.465  1.00 68.14      SS19
ATOM  50580  CB  PRO S  59     247.027  89.616  29.692  1.00 79.78      SS19
ATOM  50581  CG  PRO S  59     246.241  89.076  28.553  1.00 79.78      SS19
ATOM  50582  C   PRO S  59     247.995  91.633  28.486  1.00 68.14      SS19
ATOM  50583  O   PRO S  59     248.240  91.033  27.435  1.00 68.14      SS19
ATOM  50584  N   VAL S  60     248.617  92.749  28.854  1.00 83.15      SS19
ATOM  50585  CA  VAL S  60     249.634  93.393  28.036  1.00 83.15      SS19
ATOM  50586  CB  VAL S  60     249.325  94.890  27.888  1.00 61.05      SS19
ATOM  50587  CG1 VAL S  60     250.258  95.513  26.876  1.00 61.05      SS19
ATOM  50588  CG2 VAL S  60     247.873  95.088  27.503  1.00 61.05      SS19
ATOM  50589  C   VAL S  60     251.016  93.274  28.662  1.00 83.15      SS19
ATOM  50590  O   VAL S  60     251.380  94.096  29.495  1.00 83.15      SS19
ATOM  50591  N   TYR S  61     251.791  92.270  28.264  1.00125.17      SS19
ATOM  50592  CA  TYR S  61     253.130  92.099  28.823  1.00125.17      SS19
ATOM  50593  CB  TYR S  61     253.745  90.775  28.354  1.00141.63      SS19
ATOM  50594  CG  TYR S  61     255.115  90.476  28.938  1.00141.63      SS19
ATOM  50595  CD1 TYR S  61     255.751  89.262  28.685  1.00141.63      SS19
ATOM  50596  CE1 TYR S  61     257.014  88.983  29.217  1.00141.63      SS19
ATOM  50597  CD2 TYR S  61     255.778  91.408  29.741  1.00141.63      SS19
ATOM  50598  CE2 TYR S  61     257.035  91.141  30.274  1.00141.63      SS19
ATOM  50599  CZ  TYR S  61     257.648  89.930  30.010  1.00141.63      SS19
ATOM  50600  OH  TYR S  61     258.890  89.671  30.543  1.00141.63      SS19
ATOM  50601  C   TYR S  61     254.035  93.261  28.420  1.00125.17      SS19
ATOM  50602  O   TYR S  61     254.636  93.243  27.346  1.00125.17      SS19
ATOM  50603  N   ILE S  62     254.131  94.259  29.296  1.00 81.25      SS19
ATOM  50604  CA  ILE S  62     254.958  95.443  29.057  1.00 81.25      SS19
ATOM  50605  CB  ILE S  62     254.756  96.501  30.187  1.00 66.80      SS19
ATOM  50606  CG2 ILE S  62     254.457  95.805  31.499  1.00 66.80      SS19
ATOM  50607  CG1 ILE S  62     255.988  97.400  30.325  1.00 66.80      SS19
ATOM  50608  CD1 ILE S  62     256.296  98.237  29.115  1.00 66.80      SS19
ATOM  50609  C   ILE S  62     256.434  95.068  28.940  1.00 81.25      SS19
ATOM  50610  O   ILE S  62     256.954  94.299  29.746  1.00 81.25      SS19
ATOM  50611  N   THR S  63     257.098  95.617  27.926  1.00 76.68      SS19
ATOM  50612  CA  THR S  63     258.504  95.329  27.680  1.00 76.68      SS19
ATOM  50613  CB  THR S  63     258.654  94.345  26.512  1.00 82.54      SS19
ATOM  50614  OG1 THR S  63     257.931  93.146  26.815  1.00 82.54      SS19
ATOM  50615  CG2 THR S  63     260.121  94.002  26.286  1.00 82.54      SS19
ATOM  50616  C   THR S  63     259.331  96.573  27.384  1.00 76.68      SS19
ATOM  50617  O   THR S  63     258.828  97.553  26.834  1.00 76.68      SS19
ATOM  50618  N   GLU S  64     260.608  96.513  27.750  1.00101.31      SS19
ATOM  50619  CA  GLU S  64     261.528  97.621  27.546  1.00101.31      SS19
ATOM  50620  CB  GLU S  64     262.976  97.126  27.608  1.00181.70      SS19
ATOM  50621  CG  GLU S  64     264.015  98.227  27.419  1.00181.70      SS19
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ATOM  50622  CD  GLU S  64     264.001  99.256  28.538  1.00181.70       SS19
ATOM  50623  OE1 GLU S  64     264.393  98.910  29.673  1.00181.70       SS19
ATOM  50624  OE2 GLU S  64     263.596 100.411  28.283  1.00181.70       SS19
ATOM  50625  C   GLU S  64     261.286  98.321  26.217  1.00101.31       SS19
ATOM  50626  O   GLU S  64     261.175  99.546  26.163  1.00101.31       SS19
ATOM  50627  N   ASN S  65     261.201  97.540  25.147  1.00 86.21       SS19
ATOM  50628  CA  ASN S  65     260.979  98.095  23.818  1.00 86.21       SS19
ATOM  50629  CB  ASN S  65     260.852  96.963  22.796  1.00142.92       SS19
ATOM  50630  CG  ASN S  65     260.006  95.811  23.304  1.00142.92       SS19
ATOM  50631  OD1 ASN S  65     258.891  96.007  23.791  1.00142.92       SS19
ATOM  50632  ND2 ASN S  65     260.533  94.599  23.188  1.00142.92       SS19
ATOM  50633  C   ASN S  65     259.751  99.000  23.741  1.00 86.21       SS19
ATOM  50634  O   ASN S  65     259.785 100.048  23.097  1.00 86.21       SS19
ATOM  50635  N   MET S  66     258.673  98.608  24.410  1.00102.32       SS19
ATOM  50636  CA  MET S  66     257.442  99.390  24.374  1.00102.32       SS19
ATOM  50637  CB  MET S  66     256.231  98.458  24.363  1.00 70.66       SS19
ATOM  50638  CG  MET S  66     256.098  97.615  25.611  1.00 70.66       SS19
ATOM  50639  SD  MET S  66     254.677  96.516  25.557  1.00 70.66       SS19
ATOM  50640  CE  MET S  66     255.448  95.005  24.905  1.00 70.66       SS19
ATOM  50641  C   MET S  66     257.281 100.397  25.507  1.00102.32       SS19
ATOM  50642  O   MET S  66     256.157 100.750  25.865  1.00102.32       SS19
ATOM  50643  N   VAL S  67     258.390 100.860  26.072  1.00 92.01       SS19
ATOM  50644  CA  VAL S  67     258.322 101.838  27.153  1.00 92.01       SS19
ATOM  50645  CB  VAL S  67     259.594 101.799  28.042  1.00 87.32       SS19
ATOM  50646  CG1 VAL S  67     259.507 102.861  29.132  1.00 87.32       SS19
ATOM  50647  CG2 VAL S  67     259.751 100.419  28.666  1.00 87.32       SS19
ATOM  50648  C   VAL S  67     258.165 103.231  26.552  1.00 92.01       SS19
ATOM  50649  O   VAL S  67     258.904 103.616  25.648  1.00 92.01       SS19
ATOM  50650  N   GLY S  68     257.191 103.978  27.056  1.00 68.47       SS19
ATOM  50651  CA  GLY S  68     256.944 105.314  26.551  1.00 68.47       SS19
ATOM  50652  C   GLY S  68     255.590 105.396  25.867  1.00 68.47       SS19
ATOM  50653  O   GLY S  68     254.854 106.371  26.031  1.00 68.47       SS19
ATOM  50654  N   HIS S  69     255.256 104.373  25.088  1.00 61.11       SS19
ATOM  50655  CA  HIS S  69     253.979 104.348  24.391  1.00 61.11       SS19
ATOM  50656  CB  HIS S  69     253.911 103.147  23.443  1.00116.10       SS19
ATOM  50657  CG  HIS S  69     254.926 103.177  22.343  1.00116.10       SS19
ATOM  50658  CD2 HIS S  69     255.960 102.349  22.063  1.00116.10       SS19
ATOM  50659  ND1 HIS S  69     254.933 104.145  21.362  1.00116.10       SS19
ATOM  50660  CE1 HIS S  69     255.929 103.912  20.525  1.00116.10       SS19
ATOM  50661  NE2 HIS S  69     256.567 102.828  20.927  1.00116.10       SS19
ATOM  50662  C   HIS S  69     252.893 104.209  25.441  1.00 61.11       SS19
ATOM  50663  O   HIS S  69     253.123 103.594  26.478  1.00 61.11       SS19
ATOM  50664  N   LYS S  70     251.718 104.779  25.186  1.00107.47       SS19
ATOM  50665  CA  LYS S  70     250.614 104.661  26.134  1.00107.47       SS19
ATOM  50666  CB  LYS S  70     249.498 105.647  25.805  1.00 67.59       SS19
ATOM  50667  CG  LYS S  70     249.682 107.041  26.366  1.00 67.59       SS19
ATOM  50668  CD  LYS S  70     250.739 107.840  25.631  1.00 67.59       SS19
ATOM  50669  CE  LYS S  70     250.678 109.302  26.065  1.00 67.59       SS19
ATOM  50670  NZ  LYS S  70     251.741 110.145  25.441  1.00 67.59       SS19
ATOM  50671  C   LYS S  70     250.049 103.243  26.096  1.00107.47       SS19
ATOM  50672  O   LYS S  70     250.069 102.582  25.053  1.00107.47       SS19
ATOM  50673  N   LEU S  71     249.542 102.784  27.236  1.00 67.83       SS19
ATOM  50674  CA  LEU S  71     248.977 101.443  27.350  1.00 67.83       SS19
ATOM  50675  CB  LEU S  71     248.433 101.233  28.760  1.00 61.94       SS19
ATOM  50676  CG  LEU S  71     249.509 101.014  29.820  1.00 61.94       SS19
ATOM  50677  CD1 LEU S  71     249.047 101.523  31.165  1.00 61.94       SS19
ATOM  50678  CD2 LEU S  71     249.842  99.532  29.860  1.00 61.94       SS19
ATOM  50679  C   LEU S  71     247.882 101.182  26.333  1.00 67.83       SS19
ATOM  50680  O   LEU S  71     247.872 100.139  25.685  1.00 67.83       SS19
ATOM  50681  N   GLY S  72     246.967 102.134  26.193  1.00112.61       SS19
ATOM  50682  CA  GLY S  72     245.875 101.982  25.250  1.00112.61       SS19
ATOM  50683  C   GLY S  72     246.314 101.567  23.857  1.00112.61       SS19
ATOM  50684  O   GLY S  72     245.508 101.067  23.071  1.00112.61       SS19
ATOM  50685  N   GLU S  73     247.589 101.774  23.546  1.00 69.21       SS19
ATOM  50686  CA  GLU S  73     248.118 101.410  22.243  1.00 69.21       SS19
ATOM  50687  CB  GLU S  73     249.463 102.090  21.996  1.00156.42       SS19
ATOM  50688  CG  GLU S  73     249.390 103.584  21.786  1.00156.42       SS19
ATOM  50689  CD  GLU S  73     250.705 104.157  21.294  1.00156.42       SS19
ATOM  50690  OE1 GLU S  73     251.171 103.732  20.214  1.00156.42       SS19
ATOM  50691  OE2 GLU S  73     251.274 105.030  21.983  1.00156.42       SS19
ATOM  50692  C   GLU S  73     248.304  99.910  22.113  1.00 69.21       SS19
ATOM  50693  O   GLU S  73     248.609  99.417  21.030  1.00 69.21       SS19
ATOM  50694  N   PHE S  74     248.117  99.180  23.207  1.00 63.43       SS19
ATOM  50695  CA  PHE S  74     248.304  97.730  23.176  1.00 63.43       SS19
ATOM  50696  CB  PHE S  74     249.396  97.337  24.170  1.00 63.49       SS19
ATOM  50697  CG  PHE S  74     250.665  98.114  23.993  1.00 63.49       SS19
ATOM  50698  CD1 PHE S  74     250.724  99.462  24.346  1.00 63.49       SS19
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ATOM  50699  CD2 PHE S  74     251.791  97.515  23.432  1.00 63.49      SS19
ATOM  50700  CE1 PHE S  74     251.888 100.206  24.143  1.00 63.49      SS19
ATOM  50701  CE2 PHE S  74     252.961  98.249  23.223  1.00 63.49      SS19
ATOM  50702  CZ  PHE S  74     253.010  99.599  23.580  1.00 63.49      SS19
ATOM  50703  C   PHE S  74     247.026  96.945  23.444  1.00 63.43      SS19
ATOM  50704  O   PHE S  74     247.028  95.709  23.490  1.00 63.43      SS19
ATOM  50705  N   ALA S  75     245.935  97.679  23.613  1.00 79.75      SS19
ATOM  50706  CA  ALA S  75     244.637  97.080  23.853  1.00 79.75      SS19
ATOM  50707  CB  ALA S  75     244.116  97.480  25.218  1.00108.78      SS19
ATOM  50708  C   ALA S  75     243.717  97.605  22.768  1.00 79.75      SS19
ATOM  50709  O   ALA S  75     243.088  98.654  22.927  1.00 79.75      SS19
ATOM  50710  N   PRO S  76     243.641  96.889  21.637  1.00 60.14      SS19
ATOM  50711  CD  PRO S  76     244.170  95.533  21.414  1.00124.00      SS19
ATOM  50712  CA  PRO S  76     242.783  97.304  20.525  1.00 60.14      SS19
ATOM  50713  CB  PRO S  76     242.906  96.138  19.548  1.00124.00      SS19
ATOM  50714  CG  PRO S  76     243.167  94.964  20.453  1.00124.00      SS19
ATOM  50715  C   PRO S  76     241.345  97.537  20.993  1.00 60.14      SS19
ATOM  50716  O   PRO S  76     240.839  96.822  21.859  1.00 60.14      SS19
ATOM  50717  N   THR S  77     240.694  98.545  20.427  1.00 70.34      SS19
ATOM  50718  CA  THR S  77     239.327  98.863  20.804  1.00 70.34      SS19
ATOM  50719  CB  THR S  77     239.047 100.352  20.682  1.00 48.41      SS19
ATOM  50720  OG1 THR S  77     239.742 101.056  21.712  1.00 48.41      SS19
ATOM  50721  CG2 THR S  77     237.562 100.609  20.798  1.00 48.41      SS19
ATOM  50722  C   THR S  77     238.282  98.167  19.957  1.00 70.34      SS19
ATOM  50723  O   THR S  77     237.469  97.390  20.457  1.00 70.34      SS19
ATOM  50724  N   ARG S  78     238.304  98.464  18.666  1.00 61.70      SS19
ATOM  50725  CA  ARG S  78     237.331  97.915  17.737  1.00 61.70      SS19
ATOM  50726  CB  ARG S  78     237.146  98.903  16.610  1.00 53.36      SS19
ATOM  50727  CG  ARG S  78     237.056 100.287  17.145  1.00 53.36      SS19
ATOM  50728  CD  ARG S  78     236.876 101.285  16.080  1.00 53.36      SS19
ATOM  50729  NE  ARG S  78     237.031 102.597  16.667  1.00 53.36      SS19
ATOM  50730  CZ  ARG S  78     236.953 103.722  15.979  1.00 53.36      SS19
ATOM  50731  NH1 ARG S  78     236.717 103.672  14.671  1.00 53.36      SS19
ATOM  50732  NH2 ARG S  78     237.113 104.889  16.593  1.00 53.36      SS19
ATOM  50733  C   ARG S  78     237.658  96.554  17.172  1.00 61.70      SS19
ATOM  50734  O   ARG S  78     238.739  96.011  17.399  1.00 61.70      SS19
ATOM  50735  N   THR S  79     236.709  96.004  16.428  1.00 79.50      SS19
ATOM  50736  CA  THR S  79     236.888  94.699  15.821  1.00 79.50      SS19
ATOM  50737  CB  THR S  79     236.005  93.666  16.530  1.00 68.17      SS19
ATOM  50738  OG1 THR S  79     236.134  93.819  17.953  1.00 68.17      SS19
ATOM  50739  CG2 THR S  79     236.434  92.273  16.153  1.00 68.17      SS19
ATOM  50740  C   THR S  79     236.552  94.760  14.325  1.00 79.50      SS19
ATOM  50741  O   THR S  79     235.480  95.225  13.933  1.00 79.50      SS19
ATOM  50742  N   TYR S  80     237.483  94.309  13.492  1.00 65.59      SS19
ATOM  50743  CA  TYR S  80     237.292  94.328  12.046  1.00 65.59      SS19
ATOM  50744  CB  TYR S  80     238.122  95.449  11.419  1.00132.67      SS19
ATOM  50745  CG  TYR S  80     237.903  95.595   9.934  1.00132.67      SS19
ATOM  50746  CD1 TYR S  80     236.797  96.280   9.443  1.00132.67      SS19
ATOM  50747  CE1 TYR S  80     236.552  96.365   8.075  1.00132.67      SS19
ATOM  50748  CD2 TYR S  80     238.767  94.998   9.020  1.00132.67      SS19
ATOM  50749  CE2 TYR S  80     238.530  95.073   7.651  1.00132.67      SS19
ATOM  50750  CZ  TYR S  80     237.419  95.756   7.185  1.00132.67      SS19
ATOM  50751  OH  TYR S  80     237.155  95.816   5.832  1.00132.67      SS19
ATOM  50752  C   TYR S  80     237.730  92.991  11.460  1.00 65.59      SS19
ATOM  50753  O   TYR S  80     238.409  92.212  12.137  1.00 65.59      SS19
ATOM  50754  N   ARG S  81     237.346  92.734  10.206  1.00 82.70      SS19
ATOM  50755  CA  ARG S  81     237.699  91.493   9.523  1.00 82.70      SS19
ATOM  50756  CB  ARG S  81     239.058  91.647   8.831  1.00161.65      SS19
ATOM  50757  CG  ARG S  81     239.618  90.379   8.182  1.00161.65      SS19
ATOM  50758  CD  ARG S  81     241.002  90.646   7.583  1.00161.65      SS19
ATOM  50759  NE  ARG S  81     241.660  89.446   7.067  1.00161.65      SS19
ATOM  50760  CZ  ARG S  81     242.134  88.462   7.824  1.00161.65      SS19
ATOM  50761  NH1 ARG S  81     242.028  88.523   9.144  1.00161.65      SS19
ATOM  50762  NH2 ARG S  81     242.721  87.415   7.261  1.00161.65      SS19
ATOM  50763  C   ARG S  81     237.751  90.376  10.560  1.00 82.70      SS19
ATOM  50764  O   ARG S  81     238.853  89.847  10.808  1.00 82.70      SS19
ATOM  50765  OXT ARG S  81     236.689  90.061  11.139  1.00161.65      SS19
TER   50765       ARG S  81                                             SS19
ATOM  50766  CB  ARG T   8     132.905  42.478   8.815  1.00152.20      TS20
ATOM  50767  CG  ARG T   8     134.277  42.699   8.195  1.00152.20      TS20
ATOM  50768  CD  ARG T   8     134.923  41.395   7.762  1.00152.20      TS20
ATOM  50769  NE  ARG T   8     135.318  40.571   8.901  1.00152.20      TS20
ATOM  50770  CZ  ARG T   8     136.009  39.440   8.798  1.00152.20      TS20
ATOM  50771  NH1 ARG T   8     136.381  38.997   7.604  1.00152.20      TS20
ATOM  50772  NH2 ARG T   8     136.337  38.755   9.888  1.00152.20      TS20
ATOM  50773  C   ARG T   8     130.785  43.524   9.664  1.00 73.09      TS20
ATOM  50774  O   ARG T   8     130.382  43.614  10.821  1.00 73.09      TS20
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ATOM  50775  N   ARG T   8     133.016  44.282  10.496  1.00 73.09      TS20
ATOM  50776  CA  ARG T   8     132.255  43.769   9.325  1.00 73.09      TS20
ATOM  50777  N   ASN T   9     129.993  43.228   8.637  1.00 78.76      TS20
ATOM  50778  CA  ASN T   9     128.564  42.956   8.772  1.00 78.76      TS20
ATOM  50779  CB  ASN T   9     128.306  41.943   9.894  1.00201.24      TS20
ATOM  50780  CG  ASN T   9     128.543  40.511   9.450  1.00201.24      TS20
ATOM  50781  OD1 ASN T   9     127.880  40.013   8.538  1.00201.24      TS20
ATOM  50782  ND2 ASN T   9     129.492  39.841  10.092  1.00201.24      TS20
ATOM  50783  C   ASN T   9     127.678  44.178   8.972  1.00 78.76      TS20
ATOM  50784  O   ASN T   9     127.865  44.972   9.895  1.00 78.76      TS20
ATOM  50785  N   LEU T  10     126.706  44.305   8.075  1.00 44.12      TS20
ATOM  50786  CA  LEU T  10     125.734  45.388   8.075  1.00 44.12      TS20
ATOM  50787  CB  LEU T  10     126.184  46.499   7.125  1.00 82.13      TS20
ATOM  50788  CG  LEU T  10     125.609  47.909   7.304  1.00 82.13      TS20
ATOM  50789  CD1 LEU T  10     124.085  47.872   7.414  1.00 82.13      TS20
ATOM  50790  CD2 LEU T  10     126.229  48.527   8.548  1.00 82.13      TS20
ATOM  50791  C   LEU T  10     124.471  44.738   7.529  1.00 44.12      TS20
ATOM  50792  O   LEU T  10     124.232  44.778   6.330  1.00 44.12      TS20
ATOM  50793  N   SER T  11     123.672  44.134   8.402  1.00 52.17      TS20
ATOM  50794  CA  SER T  11     122.458  43.457   7.967  1.00 52.17      TS20
ATOM  50795  CB  SER T  11     121.560  43.166   9.166  1.00 44.29      TS20
ATOM  50796  OG  SER T  11     122.097  42.087   9.912  1.00 44.29      TS20
ATOM  50797  C   SER T  11     121.678  44.171   6.866  1.00 52.17      TS20
ATOM  50798  O   SER T  11     120.873  43.544   6.172  1.00 52.17      TS20
ATOM  50799  N   ALA T  12     121.902  45.472   6.703  1.00 41.86      TS20
ATOM  50800  CA  ALA T  12     121.244  46.203   5.628  1.00 41.86      TS20
ATOM  50801  CB  ALA T  12     121.181  47.680   5.964  1.00 78.45      TS20
ATOM  50802  C   ALA T  12     122.059  45.956   4.327  1.00 41.86      TS20
ATOM  50803  O   ALA T  12     122.534  46.864   3.658  1.00 41.86      TS20
ATOM  50804  N   LEU T  13     122.258  44.686   4.020  1.00 44.69      TS20
ATOM  50805  CA  LEU T  13     122.947  44.246   2.818  1.00 44.69      TS20
ATOM  50806  CB  LEU T  13     124.213  43.467   3.178  1.00 26.51      TS20
ATOM  50807  CG  LEU T  13     124.192  42.490   4.354  1.00 26.51      TS20
ATOM  50808  CD1 LEU T  13     123.082  41.475   4.125  1.00 26.51      TS20
ATOM  50809  CD2 LEU T  13     125.571  41.823   4.517  1.00 26.51      TS20
ATOM  50810  C   LEU T  13     121.859  43.337   2.271  1.00 44.69      TS20
ATOM  50811  O   LEU T  13     121.937  42.767   1.186  1.00 44.69      TS20
ATOM  50812  N   LYS T  14     120.845  43.206   3.114  1.00 18.61      TS20
ATOM  50813  CA  LYS T  14     119.641  42.471   2.825  1.00 18.61      TS20
ATOM  50814  CB  LYS T  14     118.666  42.633   3.989  1.00 39.33      TS20
ATOM  50815  CG  LYS T  14     117.195  42.571   3.597  1.00 39.33      TS20
ATOM  50816  CD  LYS T  14     116.315  42.853   4.800  1.00 39.33      TS20
ATOM  50817  CE  LYS T  14     114.871  42.438   4.564  1.00 39.33      TS20
ATOM  50818  NZ  LYS T  14     114.049  42.609   5.804  1.00 39.33      TS20
ATOM  50819  C   LYS T  14     119.096  43.196   1.609  1.00 18.61      TS20
ATOM  50820  O   LYS T  14     118.463  42.601   0.730  1.00 18.61      TS20
ATOM  50821  N   ARG T  15     119.348  44.503   1.586  1.00 33.88      TS20
ATOM  50822  CA  ARG T  15     118.908  45.351   0.492  1.00 33.88      TS20
ATOM  50823  CB  ARG T  15     119.498  46.744   0.652  1.00 47.09      TS20
ATOM  50824  CG  ARG T  15     118.624  47.686   1.441  1.00 47.09      TS20
ATOM  50825  CD  ARG T  15     117.351  47.990   0.678  1.00 47.09      TS20
ATOM  50826  NE  ARG T  15     116.606  49.096   1.267  1.00 47.09      TS20
ATOM  50827  CZ  ARG T  15     115.416  49.493   0.833  1.00 47.09      TS20
ATOM  50828  NH1 ARG T  15     114.843  48.868  -0.193  1.00 47.09      TS20
ATOM  50829  NH2 ARG T  15     114.795  50.506   1.419  1.00 47.09      TS20
ATOM  50830  C   ARG T  15     119.369  44.731  -0.812  1.00 33.88      TS20
ATOM  50831  O   ARG T  15     118.608  44.614  -1.784  1.00 33.88      TS20
ATOM  50832  N   HIS T  16     120.629  44.322  -0.816  1.00 22.45      TS20
ATOM  50833  CA  HIS T  16     121.192  43.699  -1.992  1.00 22.45      TS20
ATOM  50834  CB  HIS T  16     122.610  43.235  -1.702  1.00 45.31      TS20
ATOM  50835  CG  HIS T  16     123.396  42.943  -2.933  1.00 45.31      TS20
ATOM  50836  CD2 HIS T  16     124.170  43.741  -3.701  1.00 45.31      TS20
ATOM  50837  ND1 HIS T  16     123.396  41.708  -3.539  1.00 45.31      TS20
ATOM  50838  CE1 HIS T  16     124.140  41.756  -4.628  1.00 45.31      TS20
ATOM  50839  NE2 HIS T  16     124.621  42.980  -4.750  1.00 45.31      TS20
ATOM  50840  C   HIS T  16     120.298  42.523  -2.333  1.00 22.45      TS20
ATOM  50841  O   HIS T  16     119.689  42.496  -3.401  1.00 22.45      TS20
ATOM  50842  N   ARG T  17     120.207  41.571  -1.405  1.00 22.41      TS20
ATOM  50843  CA  ARG T  17     119.365  40.397  -1.586  1.00 22.41      TS20
ATOM  50844  CB  ARG T  17     118.959  39.816  -0.242  1.00 38.86      TS20
ATOM  50845  CG  ARG T  17     120.050  39.134   0.515  1.00 38.86      TS20
ATOM  50846  CD  ARG T  17     119.476  38.507   1.762  1.00 38.86      TS20
ATOM  50847  NE  ARG T  17     120.178  38.982   2.937  1.00 38.86      TS20
ATOM  50848  CZ  ARG T  17     119.608  39.142   4.123  1.00 38.86      TS20
ATOM  50849  NH1 ARG T  17     118.323  38.855   4.278  1.00 38.86      TS20
ATOM  50850  NH2 ARG T  17     120.318  39.607   5.148  1.00 38.86      TS20
ATOM  50851  C   ARG T  17     118.088  40.741  -2.334  1.00 22.41      TS20
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ATOM  50852  O   ARG T  17     117.669  40.026  -3.253  1.00 22.41      TS20
ATOM  50853  N   GLN T  18     117.466  41.838  -1.920  1.00 19.30      TS20
ATOM  50854  CA  GLN T  18     116.227  42.261  -2.524  1.00 19.30      TS20
ATOM  50855  CB  GLN T  18     115.570  43.307  -1.643  1.00 38.25      TS20
ATOM  50856  CG  GLN T  18     115.520  42.865  -0.213  1.00 38.25      TS20
ATOM  50857  CD  GLN T  18     114.711  43.785   0.663  1.00 38.25      TS20
ATOM  50858  OE1 GLN T  18     115.084  44.932   0.910  1.00 38.25      TS20
ATOM  50859  NE2 GLN T  18     113.585  43.284   1.146  1.00 38.25      TS20
ATOM  50860  C   GLN T  18     116.453  42.789  -3.927  1.00 19.30      TS20
ATOM  50861  O   GLN T  18     115.802  42.325  -4.872  1.00 19.30      TS20
ATOM  50862  N   SER T  19     117.373  43.745  -4.073  1.00 35.25      TS20
ATOM  50863  CA  SER T  19     117.664  44.318  -5.388  1.00 35.25      TS20
ATOM  50864  CB  SER T  19     119.020  45.024  -5.384  1.00 81.47      TS20
ATOM  50865  OG  SER T  19     120.082  44.085  -5.370  1.00 81.47      TS20
ATOM  50866  C   SER T  19     117.693  43.167  -6.384  1.00 35.25      TS20
ATOM  50867  O   SER T  19     117.004  43.182  -7.397  1.00 35.25      TS20
ATOM  50868  N   LEU T  20     118.485  42.152  -6.068  1.00  9.29      TS20
ATOM  50869  CA  LEU T  20     118.596  40.986  -6.919  1.00  9.29      TS20
ATOM  50870  CB  LEU T  20     119.420  39.919  -6.225  1.00 34.48      TS20
ATOM  50871  CG  LEU T  20     120.877  40.339  -6.121  1.00 34.48      TS20
ATOM  50872  CD1 LEU T  20     121.653  39.296  -5.358  1.00 34.48      TS20
ATOM  50873  CD2 LEU T  20     121.442  40.514  -7.525  1.00 34.48      TS20
ATOM  50874  C   LEU T  20     117.242  40.428  -7.287  1.00  9.29      TS20
ATOM  50875  O   LEU T  20     116.920  40.322  -8.456  1.00  9.29      TS20
ATOM  50876  N   LYS T  21     116.444  40.067  -6.291  1.00 37.96      TS20
ATOM  50877  CA  LYS T  21     115.127  39.517  -6.577  1.00 37.96      TS20
ATOM  50878  CB  LYS T  21     114.332  39.343  -5.282  1.00 81.32      TS20
ATOM  50879  CG  LYS T  21     114.992  38.407  -4.288  1.00 81.32      TS20
ATOM  50880  CD  LYS T  21     114.216  38.362  -2.988  1.00 81.32      TS20
ATOM  50881  CE  LYS T  21     115.065  37.799  -1.852  1.00 81.32      TS20
ATOM  50882  NZ  LYS T  21     114.542  38.201  -0.501  1.00 81.32      TS20
ATOM  50883  C   LYS T  21     114.384  40.441  -7.542  1.00 37.96      TS20
ATOM  50884  O   LYS T  21     114.000  40.038  -8.648  1.00 37.96      TS20
ATOM  50885  N   ARG T  22     114.200  41.689  -7.129  1.00 24.91      TS20
ATOM  50886  CA  ARG T  22     113.500  42.665  -7.954  1.00 24.91      TS20
ATOM  50887  CB  ARG T  22     113.548  44.040  -7.283  1.00 67.35      TS20
ATOM  50888  CG  ARG T  22     112.710  44.176  -6.023  1.00 67.35      TS20
ATOM  50889  CD  ARG T  22     113.076  45.439  -5.248  1.00 67.35      TS20
ATOM  50890  NE  ARG T  22     112.158  45.664  -4.140  1.00 67.35      TS20
ATOM  50891  CZ  ARG T  22     110.935  46.155  -4.288  1.00 67.35      TS20
ATOM  50892  NH1 ARG T  22     110.498  46.476  -5.495  1.00 67.35      TS20
ATOM  50893  NH2 ARG T  22     110.142  46.305  -3.237  1.00 67.35      TS20
ATOM  50894  C   ARG T  22     114.110  42.751  -9.354  1.00 24.91      TS20
ATOM  50895  O   ARG T  22     113.393  42.794 -10.345  1.00 24.91      TS20
ATOM  50896  N   ARG T  23     115.437  42.778  -9.430  1.00 48.99      TS20
ATOM  50897  CA  ARG T  23     116.115  42.876 -10.716  1.00 48.99      TS20
ATOM  50898  CB  ARG T  23     117.618  42.670 -10.551  1.00 74.56      TS20
ATOM  50899  CG  ARG T  23     118.327  42.385 -11.857  1.00 74.56      TS20
ATOM  50900  CD  ARG T  23     119.831  42.242 -11.679  1.00 74.56      TS20
ATOM  50901  NE  ARG T  23     120.456  41.758 -12.906  1.00 74.56      TS20
ATOM  50902  CZ  ARG T  23     120.280  40.535 -13.402  1.00 74.56      TS20
ATOM  50903  NH1 ARG T  23     119.500  39.662 -12.774  1.00 74.56      TS20
ATOM  50904  NH2 ARG T  23     120.870  40.186 -14.539  1.00 74.56      TS20
ATOM  50905  C   ARG T  23     115.575  41.837 -11.667  1.00 48.99      TS20
ATOM  50906  O   ARG T  23     115.148  42.143 -12.779  1.00 48.99      TS20
ATOM  50907  N   LEU T  24     115.583  40.599 -11.204  1.00 37.20      TS20
ATOM  50908  CA  LEU T  24     115.123  39.484 -11.997  1.00 37.20      TS20
ATOM  50909  CB  LEU T  24     115.572  38.188 -11.332  1.00 60.76      TS20
ATOM  50910  CG  LEU T  24     115.112  36.874 -11.943  1.00 60.76      TS20
ATOM  50911  CD1 LEU T  24     115.238  36.902 -13.457  1.00 60.76      TS20
ATOM  50912  CD2 LEU T  24     115.962  35.766 -11.341  1.00 60.76      TS20
ATOM  50913  C   LEU T  24     113.617  39.486 -12.212  1.00 37.20      TS20
ATOM  50914  O   LEU T  24     113.107  38.782 -13.085  1.00 37.20      TS20
ATOM  50915  N   ARG T  25     112.903  40.288 -11.435  1.00 30.50      TS20
ATOM  50916  CA  ARG T  25     111.458  40.328 -11.574  1.00 30.50      TS20
ATOM  50917  CB  ARG T  25     110.808  40.695 -10.245  1.00116.93      TS20
ATOM  50918  CG  ARG T  25     109.326  40.407 -10.211  1.00116.93      TS20
ATOM  50919  CD  ARG T  25     108.939  39.876  -8.853  1.00116.93      TS20
ATOM  50920  NE  ARG T  25     109.198  40.850  -7.797  1.00116.93      TS20
ATOM  50921  CZ  ARG T  25     109.240  40.550  -6.503  1.00116.93      TS20
ATOM  50922  NH1 ARG T  25     109.047  39.298  -6.104  1.00116.93      TS20
ATOM  50923  NH2 ARG T  25     109.460  41.503  -5.607  1.00116.93      TS20
ATOM  50924  C   ARG T  25     110.989  41.281 -12.668  1.00 30.50      TS20
ATOM  50925  O   ARG T  25     109.944  41.058 -13.265  1.00 30.50      TS20
ATOM  50926  N   ASN T  26     111.750  42.344 -12.924  1.00 29.26      TS20
ATOM  50927  CA  ASN T  26     111.397  43.306 -13.966  1.00 29.26      TS20
ATOM  50928  CB  ASN T  26     112.049  44.654 -13.718  1.00 37.57      TS20
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ATOM  50929  CG  ASN T  26     111.832  45.150 -12.329  1.00 37.57       TS20
ATOM  50930  OD1 ASN T  26     110.698  45.355 -11.908  1.00 37.57       TS20
ATOM  50931  ND2 ASN T  26     112.923  45.353 -11.595  1.00 37.57       TS20
ATOM  50932  C   ASN T  26     112.011  42.729 -15.213  1.00 29.26       TS20
ATOM  50933  O   ASN T  26     111.367  42.635 -16.268  1.00 29.26       TS20
ATOM  50934  N   LYS T  27     113.285  42.366 -15.060  1.00 44.29       TS20
ATOM  50935  CA  LYS T  27     114.092  41.760 -16.109  1.00 44.29       TS20
ATOM  50936  CB  LYS T  27     115.179  40.913 -15.456  1.00 74.02       TS20
ATOM  50937  CG  LYS T  27     116.080  40.137 -16.382  1.00 74.02       TS20
ATOM  50938  CD  LYS T  27     117.180  39.475 -15.551  1.00 74.02       TS20
ATOM  50939  CE  LYS T  27     117.996  38.462 -16.339  1.00 74.02       TS20
ATOM  50940  NZ  LYS T  27     117.212  37.242 -16.696  1.00 74.02       TS20
ATOM  50941  C   LYS T  27     113.178  40.901 -16.966  1.00 44.29       TS20
ATOM  50942  O   LYS T  27     113.256  40.924 -18.195  1.00 44.29       TS20
ATOM  50943  N   ALA T  28     112.295  40.166 -16.296  1.00 23.99       TS20
ATOM  50944  CA  ALA T  28     111.331  39.304 -16.963  1.00 23.99       TS20
ATOM  50945  CB  ALA T  28     110.694  38.371 -15.964  1.00 52.59       TS20
ATOM  50946  C   ALA T  28     110.259  40.144 -17.631  1.00 23.99       TS20
ATOM  50947  O   ALA T  28     110.115  40.115 -18.853  1.00 23.99       TS20
ATOM  50948  N   LYS T  29     109.514  40.893 -16.817  1.00 32.66       TS20
ATOM  50949  CA  LYS T  29     108.431  41.753 -17.301  1.00 32.66       TS20
ATOM  50950  CB  LYS T  29     108.102  42.825 -16.266  1.00 56.70       TS20
ATOM  50951  CG  LYS T  29     106.903  42.497 -15.401  1.00 56.70       TS20
ATOM  50952  CD  LYS T  29     107.313  41.980 -14.028  1.00 56.70       TS20
ATOM  50953  CE  LYS T  29     106.092  41.607 -13.192  1.00 56.70       TS20
ATOM  50954  NZ  LYS T  29     105.040  42.663 -13.299  1.00 56.70       TS20
ATOM  50955  C   LYS T  29     108.736  42.428 -18.630  1.00 32.66       TS20
ATOM  50956  O   LYS T  29     107.915  42.419 -19.564  1.00 32.66       TS20
ATOM  50957  N   LYS T  30     109.925  43.015 -18.706  1.00 48.01       TS20
ATOM  50958  CA  LYS T  30     110.347  43.696 -19.911  1.00 48.01       TS20
ATOM  50959  CB  LYS T  30     111.661  44.424 -19.662  1.00 52.29       TS20
ATOM  50960  CG  LYS T  30     111.593  45.444 -18.542  1.00 52.29       TS20
ATOM  50961  CD  LYS T  30     112.172  46.790 -18.978  1.00 52.29       TS20
ATOM  50962  CE  LYS T  30     112.552  47.669 -17.787  1.00 52.29       TS20
ATOM  50963  NZ  LYS T  30     113.729  47.113 -17.041  1.00 52.29       TS20
ATOM  50964  C   LYS T  30     110.488  42.740 -21.093  1.00 48.01       TS20
ATOM  50965  O   LYS T  30     110.048  43.050 -22.200  1.00 48.01       TS20
ATOM  50966  N   SER T  31     111.087  41.577 -20.863  1.00 30.22       TS20
ATOM  50967  CA  SER T  31     111.263  40.613 -21.946  1.00 30.22       TS20
ATOM  50968  CB  SER T  31     111.912  39.329 -21.424  1.00 46.29       TS20
ATOM  50969  OG  SER T  31     113.296  39.521 -21.188  1.00 46.29       TS20
ATOM  50970  C   SER T  31     109.968  40.272 -22.688  1.00 30.22       TS20
ATOM  50971  O   SER T  31     109.909  40.344 -23.926  1.00 30.22       TS20
ATOM  50972  N   ALA T  32     108.937  39.899 -21.934  1.00 25.82       TS20
ATOM  50973  CA  ALA T  32     107.657  39.552 -22.533  1.00 25.82       TS20
ATOM  50974  CB  ALA T  32     106.657  39.190 -21.455  1.00103.91       TS20
ATOM  50975  C   ALA T  32     107.160  40.753 -23.323  1.00 25.82       TS20
ATOM  50976  O   ALA T  32     106.569  40.620 -24.399  1.00 25.82       TS20
ATOM  50977  N   ILE T  33     107.403  41.937 -22.783  1.00 22.21       TS20
ATOM  50978  CA  ILE T  33     106.972  43.129 -23.462  1.00 22.21       TS20
ATOM  50979  CB  ILE T  33     107.326  44.360 -22.659  1.00 24.25       TS20
ATOM  50980  CG2 ILE T  33     107.519  45.551 -23.568  1.00 24.25       TS20
ATOM  50981  CG1 ILE T  33     106.227  44.596 -21.630  1.00 24.25       TS20
ATOM  50982  CD1 ILE T  33     106.355  45.902 -20.868  1.00 24.25       TS20
ATOM  50983  C   ILE T  33     107.587  43.205 -24.840  1.00 22.21       TS20
ATOM  50984  O   ILE T  33     106.868  43.262 -25.828  1.00 22.21       TS20
ATOM  50985  N   LYS T  34     108.910  43.186 -24.920  1.00 22.70       TS20
ATOM  50986  CA  LYS T  34     109.568  43.271 -26.219  1.00 22.70       TS20
ATOM  50987  CB  LYS T  34     111.083  43.124 -26.052  1.00 77.68       TS20
ATOM  50988  CG  LYS T  34     111.708  44.214 -25.193  1.00 77.68       TS20
ATOM  50989  CD  LYS T  34     113.112  43.855 -24.729  1.00 77.68       TS20
ATOM  50990  CE  LYS T  34     113.623  44.867 -23.715  1.00 77.68       TS20
ATOM  50991  NZ  LYS T  34     114.894  44.426 -23.076  1.00 77.68       TS20
ATOM  50992  C   LYS T  34     109.039  42.191 -27.162  1.00 22.70       TS20
ATOM  50993  O   LYS T  34     108.360  42.477 -28.173  1.00 22.70       TS20
ATOM  50994  N   THR T  35     109.356  40.947 -26.821  1.00 40.21       TS20
ATOM  50995  CA  THR T  35     108.940  39.800 -27.610  1.00 40.21       TS20
ATOM  50996  CB  THR T  35     108.962  38.562 -26.765  1.00 47.23       TS20
ATOM  50997  OG1 THR T  35     108.548  38.919 -25.447  1.00 47.23       TS20
ATOM  50998  CG2 THR T  35     110.367  37.976 -26.704  1.00 47.23       TS20
ATOM  50999  C   THR T  35     107.544  40.004 -28.142  1.00 40.21       TS20
ATOM  51000  O   THR T  35     107.290  39.777 -29.319  1.00 40.21       TS20
ATOM  51001  N   LEU T  36     106.641  40.447 -27.276  1.00 27.03       TS20
ATOM  51002  CA  LEU T  36     105.269  40.677 -27.696  1.00 27.03       TS20
ATOM  51003  CB  LEU T  36     104.353  40.912 -26.499  1.00 22.82       TS20
ATOM  51004  CG  LEU T  36     103.680  39.683 -25.890  1.00 22.82       TS20
ATOM  51005  CD1 LEU T  36     102.390  40.120 -25.178  1.00 22.82       TS20
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ATOM  51006  CD2 LEU T  36     103.345  38.678 -26.979  1.00 22.82       TS20
ATOM  51007  C   LEU T  36     105.143  41.846 -28.641  1.00 27.03       TS20
ATOM  51008  O   LEU T  36     104.475  41.749 -29.665  1.00 27.03       TS20
ATOM  51009  N   SER T  37     105.776  42.957 -28.293  1.00 31.84       TS20
ATOM  51010  CA  SER T  37     105.710  44.139 -29.133  1.00 31.84       TS20
ATOM  51011  CB  SER T  37     106.662  45.212 -28.619  1.00 34.36       TS20
ATOM  51012  OG  SER T  37     106.308  45.611 -27.314  1.00 34.36       TS20
ATOM  51013  C   SER T  37     106.109  43.734 -30.533  1.00 31.84       TS20
ATOM  51014  O   SER T  37     105.327  43.872 -31.476  1.00 31.84       TS20
ATOM  51015  N   LYS T  38     107.332  43.228 -30.658  1.00 41.63       TS20
ATOM  51016  CA  LYS T  38     107.833  42.788 -31.944  1.00 41.63       TS20
ATOM  51017  CB  LYS T  38     109.124  42.002 -31.748  1.00125.12       TS20
ATOM  51018  CG  LYS T  38     110.145  42.746 -30.915  1.00125.12       TS20
ATOM  51019  CD  LYS T  38     111.369  41.897 -30.651  1.00125.12       TS20
ATOM  51020  CE  LYS T  38     112.340  42.620 -29.736  1.00125.12       TS20
ATOM  51021  NZ  LYS T  38     113.520  41.775 -29.414  1.00125.12       TS20
ATOM  51022  C   LYS T  38     106.761  41.905 -32.578  1.00 41.63       TS20
ATOM  51023  O   LYS T  38     106.251  42.216 -33.658  1.00 41.63       TS20
ATOM  51024  N   LYS T  39     106.420  40.813 -31.889  1.00 35.16       TS20
ATOM  51025  CA  LYS T  39     105.396  39.873 -32.336  1.00 35.16       TS20
ATOM  51026  CB  LYS T  39     104.717  39.238 -31.120  1.00109.64       TS20
ATOM  51027  CG  LYS T  39     104.678  37.711 -31.086  1.00109.64       TS20
ATOM  51028  CD  LYS T  39     103.680  37.118 -32.071  1.00109.64       TS20
ATOM  51029  CE  LYS T  39     103.349  35.660 -31.728  1.00109.64       TS20
ATOM  51030  NZ  LYS T  39     102.720  35.492 -30.378  1.00109.64       TS20
ATOM  51031  C   LYS T  39     104.370  40.667 -33.125  1.00 35.16       TS20
ATOM  51032  O   LYS T  39     104.074  40.366 -34.272  1.00 35.16       TS20
ATOM  51033  N   ALA T  40     103.856  41.710 -32.493  1.00 38.18       TS20
ATOM  51034  CA  ALA T  40     102.856  42.567 -33.101  1.00 38.18       TS20
ATOM  51035  CB  ALA T  40     102.337  43.561 -32.066  1.00 31.87       TS20
ATOM  51036  C   ALA T  40     103.403  43.309 -34.307  1.00 38.18       TS20
ATOM  51037  O   ALA T  40     102.884  43.178 -35.409  1.00 38.18       TS20
ATOM  51038  N   VAL T  41     104.451  44.094 -34.089  1.00 33.03       TS20
ATOM  51039  CA  VAL T  41     105.064  44.876 -35.156  1.00 33.03       TS20
ATOM  51040  CB  VAL T  41     106.403  45.456 -34.737  1.00 39.28       TS20
ATOM  51041  CG1 VAL T  41     106.950  46.286 -35.866  1.00 39.28       TS20
ATOM  51042  CG2 VAL T  41     106.251  46.277 -33.475  1.00 39.28       TS20
ATOM  51043  C   VAL T  41     105.327  44.045 -36.386  1.00 33.03       TS20
ATOM  51044  O   VAL T  41     105.222  44.540 -37.503  1.00 33.03       TS20
ATOM  51045  N   GLN T  42     105.688  42.785 -36.167  1.00 46.55       TS20
ATOM  51046  CA  GLN T  42     105.971  41.864 -37.255  1.00 46.55       TS20
ATOM  51047  CB  GLN T  42     106.577  40.575 -36.701  1.00155.95       TS20
ATOM  51048  CG  GLN T  42     107.676  39.985 -37.567  1.00155.95       TS20
ATOM  51049  CD  GLN T  42     107.227  39.733 -38.991  1.00155.95       TS20
ATOM  51050  OE1 GLN T  42     106.913  40.666 -39.730  1.00155.95       TS20
ATOM  51051  NE2 GLN T  42     107.193  38.465 -39.383  1.00155.95       TS20
ATOM  51052  C   GLN T  42     104.677  41.559 -38.023  1.00 46.55       TS20
ATOM  51053  O   GLN T  42     104.474  42.060 -39.128  1.00 46.55       TS20
ATOM  51054  N   LEU T  43     103.802  40.744 -37.442  1.00 60.37       TS20
ATOM  51055  CA  LEU T  43     102.542  40.410 -38.098  1.00 60.37       TS20
ATOM  51056  CB  LEU T  43     101.508  39.914 -37.093  1.00 41.47       TS20
ATOM  51057  CG  LEU T  43     101.808  38.648 -36.300  1.00 41.47       TS20
ATOM  51058  CD1 LEU T  43     100.556  38.300 -35.502  1.00 41.47       TS20
ATOM  51059  CD2 LEU T  43     102.232  37.503 -37.234  1.00 41.47       TS20
ATOM  51060  C   LEU T  43     101.986  41.648 -38.763  1.00 60.37       TS20
ATOM  51061  O   LEU T  43     101.677  41.638 -39.951  1.00 60.37       TS20
ATOM  51062  N   ALA T  44     101.852  42.710 -37.974  1.00 64.11       TS20
ATOM  51063  CA  ALA T  44     101.337  43.982 -38.463  1.00 64.11       TS20
ATOM  51064  CB  ALA T  44     101.676  45.096 -37.480  1.00108.53       TS20
ATOM  51065  C   ALA T  44     101.949  44.276 -39.818  1.00 64.11       TS20
ATOM  51066  O   ALA T  44     101.235  44.538 -40.787  1.00 64.11       TS20
ATOM  51067  N   GLN T  45     103.278  44.213 -39.872  1.00 40.20       TS20
ATOM  51068  CA  GLN T  45     104.021  44.457 -41.102  1.00 40.20       TS20
ATOM  51069  CB  GLN T  45     105.522  44.302 -40.833  1.00 80.79       TS20
ATOM  51070  CG  GLN T  45     106.412  44.681 -41.995  1.00 80.79       TS20
ATOM  51071  CD  GLN T  45     106.727  43.499 -42.877  1.00 80.79       TS20
ATOM  51072  OE1 GLN T  45     105.872  42.646 -43.119  1.00 80.79       TS20
ATOM  51073  NE2 GLN T  45     107.959  43.442 -43.372  1.00 80.79       TS20
ATOM  51074  C   GLN T  45     103.555  43.507 -42.218  1.00 40.20       TS20
ATOM  51075  O   GLN T  45     103.194  43.951 -43.307  1.00 40.20       TS20
ATOM  51076  N   GLU T  46     103.543  42.206 -41.946  1.00 63.34       TS20
ATOM  51077  CA  GLU T  46     103.092  41.232 -42.935  1.00 63.34       TS20
ATOM  51078  CB  GLU T  46     103.133  39.825 -42.356  1.00143.62       TS20
ATOM  51079  CG  GLU T  46     104.438  39.465 -41.705  1.00143.62       TS20
ATOM  51080  CD  GLU T  46     104.411  38.067 -41.143  1.00143.62       TS20
ATOM  51081  OE1 GLU T  46     104.317  37.115 -41.946  1.00143.62       TS20
ATOM  51082  OE2 GLU T  46     104.473  37.920 -39.903  1.00143.62       TS20
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ATOM  51083  C   GLU T  46     101.658  41.552 -43.340  1.00 63.34      TS20
ATOM  51084  O   GLU T  46     101.093  40.902 -44.215  1.00 63.34      TS20
ATOM  51085  N   GLY T  47     101.066  42.539 -42.676  1.00 70.51      TS20
ATOM  51086  CA  GLY T  47      99.709  42.941 -42.993  1.00 70.51      TS20
ATOM  51087  C   GLY T  47      98.580  42.136 -42.372  1.00 70.51      TS20
ATOM  51088  O   GLY T  47      97.419  42.323 -42.747  1.00 70.51      TS20
ATOM  51089  N   LYS T  48      98.894  41.245 -41.432  1.00 57.89      TS20
ATOM  51090  CA  LYS T  48      97.860  40.435 -40.785  1.00 57.89      TS20
ATOM  51091  CB  LYS T  48      98.475  39.171 -40.185  1.00115.16      TS20
ATOM  51092  CG  LYS T  48      99.029  38.212 -41.227  1.00115.16      TS20
ATOM  51093  CD  LYS T  48      99.409  36.883 -40.605  1.00115.16      TS20
ATOM  51094  CE  LYS T  48      99.903  35.911 -41.656  1.00115.16      TS20
ATOM  51095  NZ  LYS T  48     101.084  36.458 -42.373  1.00115.16      TS20
ATOM  51096  C   LYS T  48      97.145  41.239 -39.710  1.00 57.89      TS20
ATOM  51097  O   LYS T  48      97.546  41.238 -38.555  1.00 57.89      TS20
ATOM  51098  N   ALA T  49      96.069  41.903 -40.114  1.00 49.45      TS20
ATOM  51099  CA  ALA T  49      95.273  42.772 -39.244  1.00 49.45      TS20
ATOM  51100  CB  ALA T  49      94.085  43.306 -40.033  1.00116.10      TS20
ATOM  51101  C   ALA T  49      94.785  42.247 -37.885  1.00 49.45      TS20
ATOM  51102  O   ALA T  49      95.171  42.770 -36.834  1.00 49.45      TS20
ATOM  51103  N   GLU T  50      93.918  41.240 -37.902  1.00 70.22      TS20
ATOM  51104  CA  GLU T  50      93.386  40.707 -36.657  1.00 70.22      TS20
ATOM  51105  CB  GLU T  50      92.473  39.509 -36.925  1.00134.37      TS20
ATOM  51106  CG  GLU T  50      91.107  39.882 -37.481  1.00134.37      TS20
ATOM  51107  CD  GLU T  50      90.107  38.740 -37.389  1.00134.37      TS20
ATOM  51108  OE1 GLU T  50      90.363  37.672 -37.982  1.00134.37      TS20
ATOM  51109  OE2 GLU T  50      89.065  38.910 -36.719  1.00134.37      TS20
ATOM  51110  C   GLU T  50      94.461  40.320 -35.652  1.00 70.22      TS20
ATOM  51111  O   GLU T  50      94.632  40.991 -34.633  1.00 70.22      TS20
ATOM  51112  N   GLU T  51      95.192  39.247 -35.931  1.00 59.92      TS20
ATOM  51113  CA  GLU T  51      96.221  38.813 -35.000  1.00 59.92      TS20
ATOM  51114  CB  GLU T  51      96.872  37.516 -35.489  1.00158.01      TS20
ATOM  51115  CG  GLU T  51      97.206  37.472 -36.960  1.00158.01      TS20
ATOM  51116  CD  GLU T  51      97.516  36.060 -37.427  1.00158.01      TS20
ATOM  51117  OE1 GLU T  51      98.423  35.422 -36.852  1.00158.01      TS20
ATOM  51118  OE2 GLU T  51      96.847  35.586 -38.369  1.00158.01      TS20
ATOM  51119  C   GLU T  51      97.274  39.883 -34.715  1.00 59.92      TS20
ATOM  51120  O   GLU T  51      98.059  39.758 -33.773  1.00 59.92      TS20
ATOM  51121  N   ALA T  52      97.280  40.950 -35.507  1.00 46.35      TS20
ATOM  51122  CA  ALA T  52      98.244  42.019 -35.290  1.00 46.35      TS20
ATOM  51123  CB  ALA T  52      98.431  42.823 -36.541  1.00 23.06      TS20
ATOM  51124  C   ALA T  52      97.740  42.899 -34.166  1.00 46.35      TS20
ATOM  51125  O   ALA T  52      98.424  43.075 -33.165  1.00 46.35      TS20
ATOM  51126  N   LEU T  53      96.549  43.462 -34.314  1.00 34.93      TS20
ATOM  51127  CA  LEU T  53      96.043  44.276 -33.225  1.00 34.93      TS20
ATOM  51128  CB  LEU T  53      94.730  44.962 -33.579  1.00 54.44      TS20
ATOM  51129  CG  LEU T  53      94.954  46.203 -34.433  1.00 54.44      TS20
ATOM  51130  CD1 LEU T  53      95.047  45.776 -35.883  1.00 54.44      TS20
ATOM  51131  CD2 LEU T  53      93.824  47.198 -34.228  1.00 54.44      TS20
ATOM  51132  C   LEU T  53      95.828  43.367 -32.037  1.00 34.93      TS20
ATOM  51133  O   LEU T  53      96.129  43.737 -30.895  1.00 34.93      TS20
ATOM  51134  N   LYS T  54      95.325  42.167 -32.319  1.00 56.27      TS20
ATOM  51135  CA  LYS T  54      95.063  41.187 -31.278  1.00 56.27      TS20
ATOM  51136  CB  LYS T  54      94.770  39.822 -31.899  1.00153.82      TS20
ATOM  51137  CG  LYS T  54      94.206  38.809 -30.915  1.00153.82      TS20
ATOM  51138  CD  LYS T  54      93.327  37.782 -31.618  1.00153.82      TS20
ATOM  51139  CE  LYS T  54      92.097  38.439 -32.243  1.00153.82      TS20
ATOM  51140  NZ  LYS T  54      91.186  37.455 -32.896  1.00153.82      TS20
ATOM  51141  C   LYS T  54      96.266  41.112 -30.347  1.00 56.27      TS20
ATOM  51142  O   LYS T  54      96.120  41.179 -29.125  1.00 56.27      TS20
ATOM  51143  N   ILE T  55      97.459  40.987 -30.919  1.00 24.02      TS20
ATOM  51144  CA  ILE T  55      98.650  40.941 -30.089  1.00 24.02      TS20
ATOM  51145  CB  ILE T  55      99.820  40.297 -30.822  1.00 26.85      TS20
ATOM  51146  CG2 ILE T  55     101.143  40.774 -30.235  1.00 26.85      TS20
ATOM  51147  CG1 ILE T  55      99.703  38.786 -30.702  1.00 26.85      TS20
ATOM  51148  CD1 ILE T  55     100.968  38.058 -31.051  1.00 26.85      TS20
ATOM  51149  C   ILE T  55      99.062  42.329 -29.603  1.00 24.02      TS20
ATOM  51150  O   ILE T  55      99.537  42.477 -28.476  1.00 24.02      TS20
ATOM  51151  N   MET T  56      98.896  43.343 -30.450  1.00 25.41      TS20
ATOM  51152  CA  MET T  56      99.234  44.703 -30.056  1.00 25.41      TS20
ATOM  51153  CB  MET T  56      98.684  45.696 -31.076  1.00 72.98      TS20
ATOM  51154  CG  MET T  56      99.058  47.140 -30.802  1.00 72.98      TS20
ATOM  51155  SD  MET T  56      97.667  48.266 -31.057  1.00 72.98      TS20
ATOM  51156  CE  MET T  56      97.535  48.266 -32.861  1.00 72.98      TS20
ATOM  51157  C   MET T  56      98.539  44.909 -28.711  1.00 25.41      TS20
ATOM  51158  O   MET T  56      99.162  45.246 -27.690  1.00 25.41      TS20
ATOM  51159  N   ARG T  57      97.236  44.655 -28.727  1.00 45.79      TS20
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ATOM  51160  CA  ARG T  57      96.390  44.791 -27.552  1.00 45.79      TS20
ATOM  51161  CB  ARG T  57      94.971  44.340 -27.906  1.00 75.49      TS20
ATOM  51162  CG  ARG T  57      94.346  45.243 -28.947  1.00 75.49      TS20
ATOM  51163  CD  ARG T  57      93.350  44.546 -29.842  1.00 75.49      TS20
ATOM  51164  NE  ARG T  57      92.185  44.107 -29.102  1.00 75.49      TS20
ATOM  51165  CZ  ARG T  57      92.003  42.862 -28.690  1.00 75.49      TS20
ATOM  51166  NH1 ARG T  57      92.916  41.934 -28.953  1.00 75.49      TS20
ATOM  51167  NH2 ARG T  57      90.908  42.548 -28.013  1.00 75.49      TS20
ATOM  51168  C   ARG T  57      96.894  44.074 -26.300  1.00 45.79      TS20
ATOM  51169  O   ARG T  57      96.603  44.511 -25.195  1.00 45.79      TS20
ATOM  51170  N   LYS T  58      97.629  42.972 -26.448  1.00 25.89      TS20
ATOM  51171  CA  LYS T  58      98.154  42.289 -25.266  1.00 25.89      TS20
ATOM  51172  CB  LYS T  58      98.689  40.897 -25.611  1.00174.86      TS20
ATOM  51173  CG  LYS T  58      97.649  39.788 -25.549  1.00174.86      TS20
ATOM  51174  CD  LYS T  58      98.301  38.412 -25.668  1.00174.86      TS20
ATOM  51175  CE  LYS T  58      97.279  37.286 -25.542  1.00174.86      TS20
ATOM  51176  NZ  LYS T  58      97.906  35.937 -25.642  1.00174.86      TS20
ATOM  51177  C   LYS T  58      99.290  43.153 -24.748  1.00 25.89      TS20
ATOM  51178  O   LYS T  58      99.272  43.642 -23.609  1.00 25.89      TS20
ATOM  51179  N   ALA T  59     100.271  43.351 -25.618  1.00 17.11      TS20
ATOM  51180  CA  ALA T  59     101.428  44.154 -25.290  1.00 17.11      TS20
ATOM  51181  CB  ALA T  59     102.191  44.487 -26.545  1.00  6.42      TS20
ATOM  51182  C   ALA T  59     100.991  45.426 -24.584  1.00 17.11      TS20
ATOM  51183  O   ALA T  59     101.579  45.820 -23.572  1.00 17.11      TS20
ATOM  51184  N   GLU T  60      99.955  46.069 -25.108  1.00 22.36      TS20
ATOM  51185  CA  GLU T  60      99.494  47.290 -24.475  1.00 22.36      TS20
ATOM  51186  CB  GLU T  60      98.146  47.725 -25.023  1.00 46.23      TS20
ATOM  51187  CG  GLU T  60      97.592  48.900 -24.277  1.00 46.23      TS20
ATOM  51188  CD  GLU T  60      96.561  49.653 -25.072  1.00 46.23      TS20
ATOM  51189  OE1 GLU T  60      96.137  50.732 -24.610  1.00 46.23      TS20
ATOM  51190  OE2 GLU T  60      96.175  49.173 -26.157  1.00 46.23      TS20
ATOM  51191  C   GLU T  60      99.369  47.004 -22.999  1.00 22.36      TS20
ATOM  51192  O   GLU T  60     100.094  47.573 -22.185  1.00 22.36      TS20
ATOM  51193  N   SER T  61      98.454  46.098 -22.669  1.00 38.27      TS20
ATOM  51194  CA  SER T  61      98.217  45.691 -21.290  1.00 38.27      TS20
ATOM  51195  CB  SER T  61      97.407  44.395 -21.280  1.00 65.09      TS20
ATOM  51196  OG  SER T  61      97.282  43.864 -19.975  1.00 65.09      TS20
ATOM  51197  C   SER T  61      99.560  45.484 -20.587  1.00 38.27      TS20
ATOM  51198  O   SER T  61      99.931  46.232 -19.675  1.00 38.27      TS20
ATOM  51199  N   LEU T  62     100.280  44.463 -21.034  1.00 29.94      TS20
ATOM  51200  CA  LEU T  62     101.588  44.144 -20.494  1.00 29.94      TS20
ATOM  51201  CB  LEU T  62     102.382  43.367 -21.536  1.00 41.69      TS20
ATOM  51202  CG  LEU T  62     102.146  41.866 -21.546  1.00 41.69      TS20
ATOM  51203  CD1 LEU T  62     103.089  41.222 -20.556  1.00 41.69      TS20
ATOM  51204  CD2 LEU T  62     100.688  41.567 -21.213  1.00 41.69      TS20
ATOM  51205  C   LEU T  62     102.363  45.391 -20.096  1.00 29.94      TS20
ATOM  51206  O   LEU T  62     102.867  45.499 -18.976  1.00 29.94      TS20
ATOM  51207  N   ILE T  63     102.473  46.326 -21.027  1.00 23.80      TS20
ATOM  51208  CA  ILE T  63     103.182  47.561 -20.755  1.00 23.80      TS20
ATOM  51209  CB  ILE T  63     103.183  48.476 -21.986  1.00 13.30      TS20
ATOM  51210  CG2 ILE T  63     103.850  49.820 -21.642  1.00 13.30      TS20
ATOM  51211  CG1 ILE T  63     103.855  47.749 -23.151  1.00 13.30      TS20
ATOM  51212  CD1 ILE T  63     103.933  48.567 -24.414  1.00 13.30      TS20
ATOM  51213  C   ILE T  63     102.513  48.305 -19.602  1.00 23.80      TS20
ATOM  51214  O   ILE T  63     103.103  48.477 -18.528  1.00 23.80      TS20
ATOM  51215  N   ASP T  64     101.280  48.746 -19.833  1.00 39.46      TS20
ATOM  51216  CA  ASP T  64     100.545  49.473 -18.816  1.00 39.46      TS20
ATOM  51217  CB  ASP T  64      99.067  49.561 -19.183  1.00 85.22      TS20
ATOM  51218  CG  ASP T  64      98.711  50.883 -19.819  1.00 85.22      TS20
ATOM  51219  OD1 ASP T  64      98.956  51.933 -19.185  1.00 85.22      TS20
ATOM  51220  OD2 ASP T  64      98.186  50.876 -20.949  1.00 85.22      TS20
ATOM  51221  C   ASP T  64     100.706  48.800 -17.466  1.00 39.46      TS20
ATOM  51222  O   ASP T  64     100.929  49.471 -16.459  1.00 39.46      TS20
ATOM  51223  N   LYS T  65     100.592  47.474 -17.451  1.00 40.40      TS20
ATOM  51224  CA  LYS T  65     100.741  46.718 -16.216  1.00 40.40      TS20
ATOM  51225  CB  LYS T  65     100.519  45.223 -16.461  1.00 66.65      TS20
ATOM  51226  CG  LYS T  65      99.057  44.807 -16.615  1.00 66.65      TS20
ATOM  51227  CD  LYS T  65      98.895  43.288 -16.525  1.00 66.65      TS20
ATOM  51228  CE  LYS T  65      97.430  42.866 -16.522  1.00 66.65      TS20
ATOM  51229  NZ  LYS T  65      97.271  41.393 -16.344  1.00 66.65      TS20
ATOM  51230  C   LYS T  65     102.141  46.946 -15.675  1.00 40.40      TS20
ATOM  51231  O   LYS T  65     102.317  47.337 -14.527  1.00 40.40      TS20
ATOM  51232  N   ALA T  66     103.141  46.702 -16.510  1.00 38.91      TS20
ATOM  51233  CA  ALA T  66     104.516  46.899 -16.094  1.00 38.91      TS20
ATOM  51234  CB  ALA T  66     105.426  46.838 -17.297  1.00 22.90      TS20
ATOM  51235  C   ALA T  66     104.672  48.247 -15.393  1.00 38.91      TS20
ATOM  51236  O   ALA T  66     105.377  48.364 -14.400  1.00 38.91      TS20
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ATOM  51237  N   ALA T  67     104.001  49.265 -15.912  1.00 40.33      TS20
ATOM  51238  CA  ALA T  67     104.096  50.597 -15.336  1.00 40.33      TS20
ATOM  51239  CB  ALA T  67     103.490  51.613 -16.284  1.00 74.99      TS20
ATOM  51240  C   ALA T  67     103.416  50.693 -13.987  1.00 40.33      TS20
ATOM  51241  O   ALA T  67     103.670  51.626 -13.226  1.00 40.33      TS20
ATOM  51242  N   LYS T  68     102.540  49.736 -13.699  1.00 40.85      TS20
ATOM  51243  CA  LYS T  68     101.805  49.724 -12.440  1.00 40.85      TS20
ATOM  51244  CB  LYS T  68     100.838  48.536 -12.400  1.00134.86      TS20
ATOM  51245  CG  LYS T  68      99.843  48.592 -11.259  1.00134.86      TS20
ATOM  51246  CD  LYS T  68      99.036  49.884 -11.305  1.00134.86      TS20
ATOM  51247  CE  LYS T  68      98.174  50.044 -10.063  1.00134.86      TS20
ATOM  51248  NZ  LYS T  68      97.356  51.283 -10.101  1.00134.86      TS20
ATOM  51249  C   LYS T  68     102.803  49.638 -11.298  1.00 40.85      TS20
ATOM  51250  O   LYS T  68     102.663  50.306 -10.276  1.00 40.85      TS20
ATOM  51251  N   GLY T  69     103.823  48.813 -11.485  1.00 79.94      TS20
ATOM  51252  CA  GLY T  69     104.844  48.680 -10.470  1.00 79.94      TS20
ATOM  51253  C   GLY T  69     105.983  49.625 -10.786  1.00 79.94      TS20
ATOM  51254  O   GLY T  69     105.829  50.550 -11.590  1.00 79.94      TS20
ATOM  51255  N   SER T  70     107.135  49.389 -10.169  1.00 34.41      TS20
ATOM  51256  CA  SER T  70     108.301  50.234 -10.392  1.00 34.41      TS20
ATOM  51257  CB  SER T  70     109.109  50.382  -9.095  1.00 56.97      TS20
ATOM  51258  OG  SER T  70     109.503  49.125  -8.578  1.00 56.97      TS20
ATOM  51259  C   SER T  70     109.198  49.709 -11.502  1.00 34.41      TS20
ATOM  51260  O   SER T  70     110.414  49.818 -11.417  1.00 34.41      TS20
ATOM  51261  N   THR T  71     108.595  49.146 -12.543  1.00 43.65      TS20
ATOM  51262  CA  THR T  71     109.354  48.617 -13.662  1.00 43.65      TS20
ATOM  51263  CB  THR T  71     108.714  47.357 -14.229  1.00 49.38      TS20
ATOM  51264  OG1 THR T  71     108.536  46.401 -13.183  1.00 49.38      TS20
ATOM  51265  CG2 THR T  71     109.596  46.759 -15.285  1.00 49.38      TS20
ATOM  51266  C   THR T  71     109.433  49.641 -14.777  1.00 43.65      TS20
ATOM  51267  O   THR T  71     110.475  49.777 -15.408  1.00 43.65      TS20
ATOM  51268  N   LEU T  72     108.340  50.360 -15.022  1.00 33.45      TS20
ATOM  51269  CA  LEU T  72     108.320  51.376 -16.073  1.00 33.45      TS20
ATOM  51270  CB  LEU T  72     107.444  50.901 -17.217  1.00 14.76      TS20
ATOM  51271  CG  LEU T  72     107.985  49.781 -18.086  1.00 14.76      TS20
ATOM  51272  CD1 LEU T  72     107.328  49.850 -19.483  1.00 14.76      TS20
ATOM  51273  CD2 LEU T  72     109.494  49.925 -18.215  1.00 14.76      TS20
ATOM  51274  C   LEU T  72     107.819  52.758 -15.625  1.00 33.45      TS20
ATOM  51275  O   LEU T  72     108.437  53.814 -15.866  1.00 33.45      TS20
ATOM  51276  N   HIS T  73     106.661  52.732 -14.989  1.00 92.07      TS20
ATOM  51277  CA  HIS T  73     106.031  53.938 -14.508  1.00 92.07      TS20
ATOM  51278  CB  HIS T  73     106.787  54.478 -13.295  1.00126.59      TS20
ATOM  51279  CG  HIS T  73     106.431  53.781 -12.019  1.00126.59      TS20
ATOM  51280  CD2 HIS T  73     107.203  53.234 -11.053  1.00126.59      TS20
ATOM  51281  ND1 HIS T  73     105.125  53.600 -11.615  1.00126.59      TS20
ATOM  51282  CE1 HIS T  73     105.109  52.971 -10.454  1.00126.59      TS20
ATOM  51283  NE2 HIS T  73     106.358  52.737 -10.091  1.00126.59      TS20
ATOM  51284  C   HIS T  73     105.819  55.039 -15.540  1.00 92.07      TS20
ATOM  51285  O   HIS T  73     106.714  55.409 -16.314  1.00 92.07      TS20
ATOM  51286  N   LYS T  74     104.587  55.539 -15.508  1.00 36.84      TS20
ATOM  51287  CA  LYS T  74     104.086  56.601 -16.346  1.00 36.84      TS20
ATOM  51288  CB  LYS T  74     104.306  57.948 -15.637  1.00 69.95      TS20
ATOM  51289  CG  LYS T  74     105.768  58.484 -15.606  1.00 69.95      TS20
ATOM  51290  CD  LYS T  74     106.715  57.651 -14.763  1.00 69.95      TS20
ATOM  51291  CE  LYS T  74     108.123  58.150 -14.871  1.00 69.95      TS20
ATOM  51292  NZ  LYS T  74     108.970  57.354 -13.977  1.00 69.95      TS20
ATOM  51293  C   LYS T  74     104.631  56.656 -17.770  1.00 36.84      TS20
ATOM  51294  O   LYS T  74     104.303  55.821 -18.614  1.00 36.84      TS20
ATOM  51295  N   ASN T  75     105.469  57.659 -18.005  1.00 36.69      TS20
ATOM  51296  CA  ASN T  75     106.062  57.958 -19.290  1.00 36.69      TS20
ATOM  51297  CB  ASN T  75     107.005  59.131 -19.112  1.00 44.15      TS20
ATOM  51298  CG  ASN T  75     106.359  60.250 -18.318  1.00 44.15      TS20
ATOM  51299  OD1 ASN T  75     105.136  60.386 -18.315  1.00 44.15      TS20
ATOM  51300  ND2 ASN T  75     107.166  61.058 -17.649  1.00 44.15      TS20
ATOM  51301  C   ASN T  75     106.726  56.817 -20.012  1.00 36.69      TS20
ATOM  51302  O   ASN T  75     106.575  56.694 -21.226  1.00 36.69      TS20
ATOM  51303  N   ALA T  76     107.453  55.976 -19.283  1.00 34.73      TS20
ATOM  51304  CA  ALA T  76     108.100  54.835 -19.917  1.00 34.73      TS20
ATOM  51305  CB  ALA T  76     108.684  53.906 -18.866  1.00 61.51      TS20
ATOM  51306  C   ALA T  76     107.001  54.132 -20.702  1.00 34.73      TS20
ATOM  51307  O   ALA T  76     107.049  54.054 -21.930  1.00 34.73      TS20
ATOM  51308  N   ALA T  77     105.990  53.658 -19.981  1.00 22.33      TS20
ATOM  51309  CA  ALA T  77     104.866  52.972 -20.598  1.00 22.33      TS20
ATOM  51310  CB  ALA T  77     103.800  52.699 -19.562  1.00 72.85      TS20
ATOM  51311  C   ALA T  77     104.276  53.790 -21.741  1.00 22.33      TS20
ATOM  51312  O   ALA T  77     103.926  53.245 -22.790  1.00 22.33      TS20
ATOM  51313  N   ALA T  78     104.169  55.099 -21.537  1.00 22.91      TS20
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ATOM  51314  CA  ALA T  78     103.604  55.985 -22.547  1.00 22.91      TS20
ATOM  51315  CB  ALA T  78     103.734  57.429 -22.092  1.00 24.80      TS20
ATOM  51316  C   ALA T  78     104.263  55.799 -23.917  1.00 22.91      TS20
ATOM  51317  O   ALA T  78     103.582  55.464 -24.904  1.00 22.91      TS20
ATOM  51318  N   ARG T  79     105.582  56.024 -23.968  1.00 26.07      TS20
ATOM  51319  CA  ARG T  79     106.355  55.882 -25.200  1.00 26.07      TS20
ATOM  51320  CB  ARG T  79     107.856  56.024 -24.947  1.00 55.99      TS20
ATOM  51321  CG  ARG T  79     108.314  57.346 -24.389  1.00 55.99      TS20
ATOM  51322  CD  ARG T  79     109.811  57.510 -24.603  1.00 55.99      TS20
ATOM  51323  NE  ARG T  79     110.560  56.319 -24.207  1.00 55.99      TS20
ATOM  51324  CZ  ARG T  79     111.013  56.068 -22.977  1.00 55.99      TS20
ATOM  51325  NH1 ARG T  79     110.806  56.927 -21.982  1.00 55.99      TS20
ATOM  51326  NH2 ARG T  79     111.691  54.949 -22.742  1.00 55.99      TS20
ATOM  51327  C   ARG T  79     106.118  54.492 -25.733  1.00 26.07      TS20
ATOM  51328  O   ARG T  79     105.640  54.310 -26.855  1.00 26.07      TS20
ATOM  51329  N   ARG T  80     106.474  53.512 -24.905  1.00 36.63      TS20
ATOM  51330  CA  ARG T  80     106.327  52.115 -25.258  1.00 36.63      TS20
ATOM  51331  CB  ARG T  80     106.173  51.268 -24.004  1.00 77.37      TS20
ATOM  51332  CG  ARG T  80     107.315  51.401 -23.028  1.00 77.37      TS20
ATOM  51333  CD  ARG T  80     108.492  50.540 -23.415  1.00 77.37      TS20
ATOM  51334  NE  ARG T  80     109.590  50.721 -22.474  1.00 77.37      TS20
ATOM  51335  CZ  ARG T  80     110.601  49.872 -22.335  1.00 77.37      TS20
ATOM  51336  NH1 ARG T  80     110.661  48.771 -23.076  1.00 77.37      TS20
ATOM  51337  NH2 ARG T  80     111.554  50.127 -21.449  1.00 77.37      TS20
ATOM  51338  C   ARG T  80     105.077  52.006 -26.088  1.00 36.63      TS20
ATOM  51339  O   ARG T  80     105.117  51.611 -27.256  1.00 36.63      TS20
ATOM  51340  N   LYS T  81     103.968  52.400 -25.484  1.00 26.84      TS20
ATOM  51341  CA  LYS T  81     102.690  52.330 -26.158  1.00 26.84      TS20
ATOM  51342  CB  LYS T  81     101.579  52.741 -25.191  1.00 25.37      TS20
ATOM  51343  CG  LYS T  81     101.396  51.731 -24.066  1.00 25.37      TS20
ATOM  51344  CD  LYS T  81     100.604  52.299 -22.928  1.00 25.37      TS20
ATOM  51345  CE  LYS T  81      99.215  52.629 -23.365  1.00 25.37      TS20
ATOM  51346  NZ  LYS T  81      98.468  53.256 -22.252  1.00 25.37      TS20
ATOM  51347  C   LYS T  81     102.623  53.126 -27.454  1.00 26.84      TS20
ATOM  51348  O   LYS T  81     102.516  52.527 -28.523  1.00 26.84      TS20
ATOM  51349  N   SER T  82     102.692  54.452 -27.382  1.00 38.95      TS20
ATOM  51350  CA  SER T  82     102.637  55.259 -28.601  1.00 38.95      TS20
ATOM  51351  CB  SER T  82     103.047  56.689 -28.316  1.00 48.91      TS20
ATOM  51352  OG  SER T  82     104.303  56.696 -27.679  1.00 48.91      TS20
ATOM  51353  C   SER T  82     103.561  54.696 -29.674  1.00 38.95      TS20
ATOM  51354  O   SER T  82     103.113  54.343 -30.764  1.00 38.95      TS20
ATOM  51355  N   ARG T  83     104.851  54.607 -29.368  1.00 32.82      TS20
ATOM  51356  CA  ARG T  83     105.817  54.084 -30.329  1.00 32.82      TS20
ATOM  51357  CB  ARG T  83     107.151  53.798 -29.643  1.00120.69      TS20
ATOM  51358  CG  ARG T  83     107.962  55.046 -29.401  1.00120.69      TS20
ATOM  51359  CD  ARG T  83     109.203  54.779 -28.582  1.00120.69      TS20
ATOM  51360  NE  ARG T  83     110.030  55.977 -28.500  1.00120.69      TS20
ATOM  51361  CZ  ARG T  83     111.050  56.123 -27.664  1.00120.69      TS20
ATOM  51362  NH1 ARG T  83     111.370  55.140 -26.831  1.00120.69      TS20
ATOM  51363  NH2 ARG T  83     111.749  57.250 -27.663  1.00120.69      TS20
ATOM  51364  C   ARG T  83     105.314  52.823 -31.005  1.00 32.82      TS20
ATOM  51365  O   ARG T  83     105.635  52.561 -32.163  1.00 32.82      TS20
ATOM  51366  N   LEU T  84     104.514  52.050 -30.276  1.00 40.12      TS20
ATOM  51367  CA  LEU T  84     103.975  50.803 -30.792  1.00 40.12      TS20
ATOM  51368  CB  LEU T  84     103.642  49.861 -29.633  1.00 31.76      TS20
ATOM  51369  CG  LEU T  84     103.821  48.356 -29.869  1.00 31.76      TS20
ATOM  51370  CD1 LEU T  84     103.200  47.592 -28.711  1.00 31.76      TS20
ATOM  51371  CD2 LEU T  84     103.173  47.941 -31.171  1.00 31.76      TS20
ATOM  51372  C   LEU T  84     102.735  51.038 -31.651  1.00 40.12      TS20
ATOM  51373  O   LEU T  84     102.761  50.808 -32.851  1.00 40.12      TS20
ATOM  51374  N   MET T  85     101.648  51.493 -31.040  1.00 72.81      TS20
ATOM  51375  CA  MET T  85     100.424  51.734 -31.791  1.00 72.81      TS20
ATOM  51376  CB  MET T  85      99.420  52.496 -30.935  1.00 53.89      TS20
ATOM  51377  CG  MET T  85      99.068  51.764 -29.665  1.00 53.89      TS20
ATOM  51378  SD  MET T  85      97.737  52.525 -28.755  1.00 53.89      TS20
ATOM  51379  CE  MET T  85      96.338  51.902 -29.683  1.00 53.89      TS20
ATOM  51380  C   MET T  85     100.758  52.521 -33.043  1.00 72.81      TS20
ATOM  51381  O   MET T  85     100.217  52.261 -34.124  1.00 72.81      TS20
ATOM  51382  N   ARG T  86     101.664  53.481 -32.893  1.00 64.81      TS20
ATOM  51383  CA  ARG T  86     102.091  54.286 -34.019  1.00 64.81      TS20
ATOM  51384  CB  ARG T  86     103.304  55.127 -33.630  1.00105.67      TS20
ATOM  51385  CG  ARG T  86     103.900  55.924 -34.765  1.00105.67      TS20
ATOM  51386  CD  ARG T  86     104.333  57.298 -34.302  1.00105.67      TS20
ATOM  51387  NE  ARG T  86     103.172  58.144 -34.054  1.00105.67      TS20
ATOM  51388  CZ  ARG T  86     103.235  59.424 -33.700  1.00105.67      TS20
ATOM  51389  NH1 ARG T  86     104.416  60.011 -33.549  1.00105.67      TS20
ATOM  51390  NH2 ARG T  86     102.119  60.120 -33.499  1.00105.67      TS20
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ATOM  51391  C   ARG T  86     102.440  53.299 -35.121  1.00 64.81      TS20
ATOM  51392  O   ARG T  86     101.704  53.179 -36.097  1.00 64.81      TS20
ATOM  51393  N   LYS T  87     103.535  52.564 -34.943  1.00 39.00      TS20
ATOM  51394  CA  LYS T  87     103.954  51.570 -35.930  1.00 39.00      TS20
ATOM  51395  CB  LYS T  87     105.066  50.691 -35.371  1.00 90.95      TS20
ATOM  51396  CG  LYS T  87     106.437  51.279 -35.495  1.00 90.95      TS20
ATOM  51397  CD  LYS T  87     107.446  50.398 -34.788  1.00 90.95      TS20
ATOM  51398  CE  LYS T  87     107.146  50.298 -33.288  1.00 90.95      TS20
ATOM  51399  NZ  LYS T  87     108.134  49.457 -32.534  1.00 90.95      TS20
ATOM  51400  C   LYS T  87     102.827  50.660 -36.426  1.00 39.00      TS20
ATOM  51401  O   LYS T  87     102.292  50.867 -37.507  1.00 39.00      TS20
ATOM  51402  N   VAL T  88     102.481  49.644 -35.641  1.00 49.89      TS20
ATOM  51403  CA  VAL T  88     101.439  48.699 -36.035  1.00 49.89      TS20
ATOM  51404  CB  VAL T  88     100.600  48.254 -34.839  1.00 57.02      TS20
ATOM  51405  CG1 VAL T  88      99.436  47.404 -35.316  1.00 57.02      TS20
ATOM  51406  CG2 VAL T  88     101.467  47.465 -33.882  1.00 57.02      TS20
ATOM  51407  C   VAL T  88     100.515  49.278 -37.081  1.00 49.89      TS20
ATOM  51408  O   VAL T  88     100.301  48.674 -38.134  1.00 49.89      TS20
ATOM  51409  N   ARG T  89      99.986  50.460 -36.793  1.00 51.32      TS20
ATOM  51410  CA  ARG T  89      99.087  51.123 -37.722  1.00 51.32      TS20
ATOM  51411  CB  ARG T  89      98.667  52.473 -37.150  1.00 32.97      TS20
ATOM  51412  CG  ARG T  89      97.482  53.076 -37.868  1.00 32.97      TS20
ATOM  51413  CD  ARG T  89      96.794  54.118 -37.008  1.00 32.97      TS20
ATOM  51414  NE  ARG T  89      95.342  54.023 -37.124  1.00 32.97      TS20
ATOM  51415  CZ  ARG T  89      94.483  54.588 -36.281  1.00 32.97      TS20
ATOM  51416  NH1 ARG T  89      94.924  55.297 -35.253  1.00 32.97      TS20
ATOM  51417  NH2 ARG T  89      93.180  54.431 -36.453  1.00 32.97      TS20
ATOM  51418  C   ARG T  89      99.740  51.310 -39.100  1.00 51.32      TS20
ATOM  51419  O   ARG T  89      99.425  50.600 -40.056  1.00 51.32      TS20
ATOM  51420  N   GLN T  90     100.659  52.263 -39.184  1.00 54.66      TS20
ATOM  51421  CA  GLN T  90     101.369  52.565 -40.419  1.00 54.66      TS20
ATOM  51422  CB  GLN T  90     102.634  53.359 -40.104  1.00137.94      TS20
ATOM  51423  CG  GLN T  90     102.385  54.591 -39.259  1.00137.94      TS20
ATOM  51424  CD  GLN T  90     103.670  55.289 -38.875  1.00137.94      TS20
ATOM  51425  OE1 GLN T  90     104.601  54.660 -38.372  1.00137.94      TS20
ATOM  51426  NE2 GLN T  90     103.729  56.596 -39.104  1.00137.94      TS20
ATOM  51427  C   GLN T  90     101.741  51.350 -41.264  1.00 54.66      TS20
ATOM  51428  O   GLN T  90     101.765  51.441 -42.484  1.00 54.66      TS20
ATOM  51429  N   LEU T  91     102.043  50.215 -40.644  1.00 49.09      TS20
ATOM  51430  CA  LEU T  91     102.404  49.052 -41.445  1.00 49.09      TS20
ATOM  51431  CB  LEU T  91     103.253  48.072 -40.661  1.00 13.97      TS20
ATOM  51432  CG  LEU T  91     104.514  48.689 -40.101  1.00 13.97      TS20
ATOM  51433  CD1 LEU T  91     104.218  49.255 -38.723  1.00 13.97      TS20
ATOM  51434  CD2 LEU T  91     105.586  47.634 -40.032  1.00 13.97      TS20
ATOM  51435  C   LEU T  91     101.162  48.355 -41.921  1.00 49.09      TS20
ATOM  51436  O   LEU T  91     101.138  47.779 -43.014  1.00 49.09      TS20
ATOM  51437  N   LEU T  92     100.131  48.382 -41.087  1.00 60.72      TS20
ATOM  51438  CA  LEU T  92      98.879  47.781 -41.482  1.00 60.72      TS20
ATOM  51439  CB  LEU T  92      97.879  47.775 -40.337  1.00 38.60      TS20
ATOM  51440  CG  LEU T  92      98.089  46.693 -39.282  1.00 38.60      TS20
ATOM  51441  CD1 LEU T  92      97.075  46.918 -38.180  1.00 38.60      TS20
ATOM  51442  CD2 LEU T  92      97.949  45.294 -39.895  1.00 38.60      TS20
ATOM  51443  C   LEU T  92      98.388  48.676 -42.595  1.00 60.72      TS20
ATOM  51444  O   LEU T  92      97.377  48.387 -43.231  1.00 60.72      TS20
ATOM  51445  N   GLU T  93      99.106  49.783 -42.798  1.00 43.27      TS20
ATOM  51446  CA  GLU T  93      98.804  50.738 -43.862  1.00 43.27      TS20
ATOM  51447  CB  GLU T  93      99.211  52.160 -43.465  1.00131.56      TS20
ATOM  51448  CG  GLU T  93      98.492  52.714 -42.230  1.00131.56      TS20
ATOM  51449  CD  GLU T  93      96.977  52.773 -42.380  1.00131.56      TS20
ATOM  51450  OE1 GLU T  93      96.321  53.420 -41.534  1.00131.56      TS20
ATOM  51451  OE2 GLU T  93      96.437  52.172 -43.332  1.00131.56      TS20
ATOM  51452  C   GLU T  93      99.607  50.258 -45.070  1.00 43.27      TS20
ATOM  51453  O   GLU T  93     100.704  50.735 -45.376  1.00 43.27      TS20
ATOM  51454  N   ALA T  94      99.034  49.257 -45.717  1.00 73.86      TS20
ATOM  51455  CA  ALA T  94      99.600  48.623 -46.883  1.00 73.86      TS20
ATOM  51456  CB  ALA T  94     100.975  48.077 -46.561  1.00 30.47      TS20
ATOM  51457  C   ALA T  94      98.616  47.495 -47.170  1.00 73.86      TS20
ATOM  51458  O   ALA T  94      98.951  46.315 -47.048  1.00 73.86      TS20
ATOM  51459  N   ALA T  95      97.391  47.897 -47.523  1.00152.27      TS20
ATOM  51460  CA  ALA T  95      96.277  47.001 -47.842  1.00152.27      TS20
ATOM  51461  CB  ALA T  95      96.714  45.953 -48.865  1.00173.10      TS20
ATOM  51462  C   ALA T  95      95.727  46.317 -46.596  1.00152.27      TS20
ATOM  51463  O   ALA T  95      95.033  45.302 -46.687  1.00152.27      TS20
ATOM  51464  N   GLY T  96      96.022  46.897 -45.437  1.00 63.47      TS20
ATOM  51465  CA  GLY T  96      95.591  46.324 -44.173  1.00 63.47      TS20
ATOM  51466  C   GLY T  96      94.135  46.472 -43.791  1.00 63.47      TS20
ATOM  51467  O   GLY T  96      93.283  45.722 -44.270  1.00 63.47      TS20
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ATOM  51468  N   ALA T  97      93.865  47.438 -42.919  1.00109.78      TS20
ATOM  51469  CA  ALA T  97      92.524  47.721 -42.406  1.00109.78      TS20
ATOM  51470  CB  ALA T  97      91.453  47.016 -43.231  1.00  2.26      TS20
ATOM  51471  C   ALA T  97      92.458  47.209 -40.984  1.00109.78      TS20
ATOM  51472  O   ALA T  97      92.446  46.001 -40.776  1.00109.78      TS20
ATOM  51473  N   PRO T  98      92.438  48.110 -39.985  1.00121.66      TS20
ATOM  51474  CD  PRO T  98      92.530  49.581 -39.991  1.00 70.61      TS20
ATOM  51475  CA  PRO T  98      92.366  47.601 -38.616  1.00121.66      TS20
ATOM  51476  CB  PRO T  98      92.523  48.865 -37.766  1.00 70.61      TS20
ATOM  51477  CG  PRO T  98      91.971  49.938 -38.638  1.00 70.61      TS20
ATOM  51478  C   PRO T  98      91.028  46.887 -38.418  1.00121.66      TS20
ATOM  51479  O   PRO T  98      90.193  47.297 -37.613  1.00121.66      TS20
ATOM  51480  N   LEU T  99      90.851  45.817 -39.191  1.00123.06      TS20
ATOM  51481  CA  LEU T  99      89.659  44.979 -39.188  1.00123.06      TS20
ATOM  51482  CB  LEU T  99      89.915  43.717 -40.013  1.00161.20      TS20
ATOM  51483  CG  LEU T  99      90.437  43.956 -41.434  1.00161.20      TS20
ATOM  51484  CD1 LEU T  99      90.899  42.644 -42.048  1.00161.20      TS20
ATOM  51485  CD2 LEU T  99      89.349  44.603 -42.275  1.00161.20      TS20
ATOM  51486  C   LEU T  99      89.286  44.589 -37.774  1.00123.06      TS20
ATOM  51487  O   LEU T  99      88.140  44.739 -37.363  1.00123.06      TS20
ATOM  51488  N   ILE T 100      90.261  44.082 -37.032  1.00 84.98      TS20
ATOM  51489  CA  ILE T 100      90.030  43.676 -35.653  1.00 84.98      TS20
ATOM  51490  CB  ILE T 100      91.284  42.947 -35.088  1.00201.26      TS20
ATOM  51491  CG2 ILE T 100      92.531  43.720 -35.453  1.00201.26      TS20
ATOM  51492  CG1 ILE T 100      91.152  42.739 -33.575  1.00201.26      TS20
ATOM  51493  CD1 ILE T 100      92.330  42.034 -32.939  1.00201.26      TS20
ATOM  51494  C   ILE T 100      89.654  44.873 -34.759  1.00 84.98      TS20
ATOM  51495  O   ILE T 100      89.326  44.706 -33.580  1.00 84.98      TS20
ATOM  51496  N   GLY T 101      89.686  46.074 -35.330  1.00115.53      TS20
ATOM  51497  CA  GLY T 101      89.343  47.266 -34.572  1.00115.53      TS20
ATOM  51498  C   GLY T 101      89.830  47.214 -33.136  1.00115.53      TS20
ATOM  51499  O   GLY T 101      89.152  47.680 -32.217  1.00115.53      TS20
ATOM  51500  N   GLY T 102      91.008  46.633 -32.943  1.00 65.18      TS20
ATOM  51501  CA  GLY T 102      91.568  46.533 -31.614  1.00 65.18      TS20
ATOM  51502  C   GLY T 102      91.997  47.891 -31.099  1.00 65.18      TS20
ATOM  51503  O   GLY T 102      91.386  48.907 -31.419  1.00 65.18      TS20
ATOM  51504  N   GLY T 103      93.060  47.899 -30.304  1.00 56.35      TS20
ATOM  51505  CA  GLY T 103      93.583  49.124 -29.729  1.00 56.35      TS20
ATOM  51506  C   GLY T 103      93.430  50.364 -30.577  1.00 56.35      TS20
ATOM  51507  O   GLY T 103      93.188  51.444 -30.057  1.00 56.35      TS20
ATOM  51508  N   LEU T 104      93.554  50.220 -31.887  1.00 41.88      TS20
ATOM  51509  CA  LEU T 104      93.441  51.374 -32.758  1.00 41.88      TS20
ATOM  51510  CB  LEU T 104      93.882  51.019 -34.167  1.00 30.22      TS20
ATOM  51511  CG  LEU T 104      95.387  50.791 -34.192  1.00 30.22      TS20
ATOM  51512  CD1 LEU T 104      95.817  50.683 -35.620  1.00 30.22      TS20
ATOM  51513  CD2 LEU T 104      96.120  51.928 -33.502  1.00 30.22      TS20
ATOM  51514  C   LEU T 104      92.082  52.029 -32.806  1.00 41.88      TS20
ATOM  51515  O   LEU T 104      91.068  51.386 -33.059  1.00 41.88      TS20
ATOM  51516  N   SER T 105      92.099  53.334 -32.563  1.00 33.64      TS20
ATOM  51517  CA  SER T 105      90.914  54.181 -32.560  1.00 33.64      TS20
ATOM  51518  CB  SER T 105      91.257  55.524 -31.890  1.00 28.91      TS20
ATOM  51519  OG  SER T 105      90.311  56.535 -32.157  1.00 28.91      TS20
ATOM  51520  C   SER T 105      90.445  54.389 -33.992  1.00 33.64      TS20
ATOM  51521  O   SER T 105      91.101  55.075 -34.776  1.00 33.64      TS20
ATOM  51522  N   ALA T 106      89.306  53.774 -34.307  1.00 98.91      TS20
ATOM  51523  CA  ALA T 106      88.685  53.833 -35.626  1.00 98.91      TS20
ATOM  51524  CB  ALA T 106      87.176  53.993 -35.475  1.00182.36      TS20
ATOM  51525  C   ALA T 106      89.241  54.946 -36.505  1.00 98.91      TS20
ATOM  51526  O   ALA T 106      89.895  54.616 -37.520  1.00 98.91      TS20
ATOM  51527  OXT ALA T 106      89.020  56.129 -36.169  1.00182.36      TS20
TER   51527       ALA T 106                                              TS20
ATOM  51528  C   GLY V   2     249.836 126.240  -1.903  1.00110.83      VTHX
ATOM  51529  O   GLY V   2     250.332 126.051  -0.789  1.00110.83      VTHX
ATOM  51530  N   GLY V   2     251.354 124.643  -3.177  1.00110.83      VTHX
ATOM  51531  CA  GLY V   2     250.597 125.927  -3.181  1.00110.83      VTHX
ATOM  51532  N   LYS V   3     248.609 126.713  -2.071  1.00 36.77      VTHX
ATOM  51533  CA  LYS V   3     247.767 127.089  -0.944  1.00 36.77      VTHX
ATOM  51534  CB  LYS V   3     246.382 127.511  -1.444  1.00 48.69      VTHX
ATOM  51535  CG  LYS V   3     245.616 128.397  -0.483  1.00 48.69      VTHX
ATOM  51536  CD  LYS V   3     244.344 128.928  -1.111  1.00 48.69      VTHX
ATOM  51537  CE  LYS V   3     244.629 129.804  -2.330  1.00 48.69      VTHX
ATOM  51538  NZ  LYS V   3     243.389 130.182  -3.112  1.00 48.69      VTHX
ATOM  51539  C   LYS V   3     247.618 125.989   0.087  1.00 36.77      VTHX
ATOM  51540  O   LYS V   3     247.066 126.207   1.154  1.00 36.77      VTHX
ATOM  51541  N   GLY V   4     248.111 124.804  -0.219  1.00 27.20      VTHX
ATOM  51542  CA  GLY V   4     247.966 123.731   0.732  1.00 27.20      VTHX
ATOM  51543  C   GLY V   4     249.280 123.288   1.314  1.00 27.20      VTHX
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ATOM  51544  O   GLY V   4     249.310 122.379   2.154  1.00 27.20      VTHX
ATOM  51545  N   ASP V   5     250.370 123.911   0.869  1.00 77.63      VTHX
ATOM  51546  CA  ASP V   5     251.697 123.560   1.369  1.00 77.63      VTHX
ATOM  51547  CB  ASP V   5     252.787 123.982   0.385  1.00135.19      VTHX
ATOM  51548  CG  ASP V   5     254.154 123.443   0.768  1.00135.19      VTHX
ATOM  51549  OD1 ASP V   5     254.527 123.555   1.955  1.00135.19      VTHX
ATOM  51550  OD2 ASP V   5     254.856 122.910  -0.119  1.00135.19      VTHX
ATOM  51551  C   ASP V   5     251.913 124.272   2.687  1.00 77.63      VTHX
ATOM  51552  O   ASP V   5     252.131 125.486   2.713  1.00 77.63      VTHX
ATOM  51553  N   ARG V   6     251.860 123.515   3.779  1.00 79.76      VTHX
ATOM  51554  CA  ARG V   6     252.022 124.099   5.097  1.00 79.76      VTHX
ATOM  51555  CB  ARG V   6     252.005 123.012   6.176  1.00201.26      VTHX
ATOM  51556  CG  ARG V   6     253.140 122.012   6.145  1.00201.26      VTHX
ATOM  51557  CD  ARG V   6     252.842 120.871   7.114  1.00201.26      VTHX
ATOM  51558  NE  ARG V   6     252.329 121.361   8.393  1.00201.26      VTHX
ATOM  51559  CZ  ARG V   6     251.913 120.579   9.386  1.00201.26      VTHX
ATOM  51560  NH1 ARG V   6     251.949 119.260   9.253  1.00201.26      VTHX
ATOM  51561  NH2 ARG V   6     251.456 121.116  10.510  1.00201.26      VTHX
ATOM  51562  C   ARG V   6     253.272 124.962   5.212  1.00 79.76      VTHX
ATOM  51563  O   ARG V   6     253.299 125.887   6.014  1.00 79.76      VTHX
ATOM  51564  N   ARG V   7     254.302 124.685   4.412  1.00 50.34      VTHX
ATOM  51565  CA  ARG V   7     255.508 125.502   4.471  1.00 50.34      VTHX
ATOM  51566  CB  ARG V   7     256.770 124.652   4.630  1.00 52.18      VTHX
ATOM  51567  CG  ARG V   7     256.640 123.174   4.386  1.00 52.18      VTHX
ATOM  51568  CD  ARG V   7     258.043 122.612   4.304  1.00 52.18      VTHX
ATOM  51569  NE  ARG V   7     258.130 121.172   4.511  1.00 52.18      VTHX
ATOM  51570  CZ  ARG V   7     259.258 120.473   4.386  1.00 52.18      VTHX
ATOM  51571  NH1 ARG V   7     260.388 121.093   4.048  1.00 52.18      VTHX
ATOM  51572  NH2 ARG V   7     259.264 119.159   4.615  1.00 52.18      VTHX
ATOM  51573  C   ARG V   7     255.671 126.434   3.280  1.00 50.34      VTHX
ATOM  51574  O   ARG V   7     256.569 126.269   2.452  1.00 50.34      VTHX
ATOM  51575  N   THR V   8     254.797 127.430   3.218  1.00 43.48      VTHX
ATOM  51576  CA  THR V   8     254.829 128.419   2.149  1.00 43.48      VTHX
ATOM  51577  CB  THR V   8     253.950 127.977   0.964  1.00 67.38      VTHX
ATOM  51578  OG1 THR V   8     254.264 126.625   0.625  1.00 67.38      VTHX
ATOM  51579  CG2 THR V   8     254.182 128.871  -0.254  1.00 67.38      VTHX
ATOM  51580  C   THR V   8     254.252 129.714   2.710  1.00 43.48      VTHX
ATOM  51581  O   THR V   8     253.647 129.710   3.783  1.00 43.48      VTHX
ATOM  51582  N   ARG V   9     254.451 130.823   2.004  1.00 57.70      VTHX
ATOM  51583  CA  ARG V   9     253.880 132.079   2.456  1.00 57.70      VTHX
ATOM  51584  CB  ARG V   9     254.247 133.216   1.493  1.00155.06      VTHX
ATOM  51585  CG  ARG V   9     253.596 134.563   1.805  1.00155.06      VTHX
ATOM  51586  CD  ARG V   9     254.081 135.162   3.122  1.00155.06      VTHX
ATOM  51587  NE  ARG V   9     253.297 136.339   3.498  1.00155.06      VTHX
ATOM  51588  CZ  ARG V   9     253.462 137.029   4.624  1.00155.06      VTHX
ATOM  51589  NH1 ARG V   9     254.392 136.669   5.500  1.00155.06      VTHX
ATOM  51590  NH2 ARG V   9     252.685 138.075   4.883  1.00155.06      VTHX
ATOM  51591  C   ARG V   9     252.382 131.789   2.395  1.00 57.70      VTHX
ATOM  51592  O   ARG V   9     251.708 131.705   3.431  1.00 57.70      VTHX
ATOM  51593  N   ARG V  10     251.880 131.592   1.173  1.00 50.12      VTHX
ATOM  51594  CA  ARG V  10     250.466 131.292   0.932  1.00 50.12      VTHX
ATOM  51595  CB  ARG V  10     250.233 130.999  -0.547  1.00 96.49      VTHX
ATOM  51596  CG  ARG V  10     249.872 132.206  -1.382  1.00 96.49      VTHX
ATOM  51597  CD  ARG V  10     249.938 131.849  -2.853  1.00 96.49      VTHX
ATOM  51598  NE  ARG V  10     249.429 132.905  -3.724  1.00 96.49      VTHX
ATOM  51599  CZ  ARG V  10     249.656 132.956  -5.036  1.00 96.49      VTHX
ATOM  51600  NH1 ARG V  10     250.386 132.011  -5.616  1.00 96.49      VTHX
ATOM  51601  NH2 ARG V  10     249.149 133.939  -5.774  1.00 96.49      VTHX
ATOM  51602  C   ARG V  10     250.010 130.102   1.753  1.00 50.12      VTHX
ATOM  51603  O   ARG V  10     248.828 129.945   2.020  1.00 50.12      VTHX
ATOM  51604  N   GLY V  11     250.958 129.266   2.148  1.00 54.19      VTHX
ATOM  51605  CA  GLY V  11     250.626 128.098   2.936  1.00 54.19      VTHX
ATOM  51606  C   GLY V  11     250.114 128.443   4.323  1.00 54.19      VTHX
ATOM  51607  O   GLY V  11     248.968 128.134   4.664  1.00 54.19      VTHX
ATOM  51608  N   LYS V  12     250.964 129.077   5.128  1.00 71.85      VTHX
ATOM  51609  CA  LYS V  12     250.590 129.457   6.486  1.00 71.85      VTHX
ATOM  51610  CB  LYS V  12     251.736 130.189   7.183  1.00 35.68      VTHX
ATOM  51611  CG  LYS V  12     252.551 129.328   8.150  1.00 35.68      VTHX
ATOM  51612  CD  LYS V  12     253.240 128.172   7.453  1.00 35.68      VTHX
ATOM  51613  CE  LYS V  12     254.337 127.548   8.322  1.00 35.68      VTHX
ATOM  51614  NZ  LYS V  12     253.830 126.894   9.554  1.00 35.68      VTHX
ATOM  51615  C   LYS V  12     249.367 130.344   6.483  1.00 71.85      VTHX
ATOM  51616  O   LYS V  12     248.441 130.126   7.255  1.00 71.85      VTHX
ATOM  51617  N   ILE V  13     249.358 131.345   5.614  1.00 37.53      VTHX
ATOM  51618  CA  ILE V  13     248.219 132.246   5.546  1.00 37.53      VTHX
ATOM  51619  CB  ILE V  13     248.286 133.137   4.334  1.00 15.39      VTHX
ATOM  51620  CG2 ILE V  13     247.136 134.133   4.365  1.00 15.39      VTHX
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ATOM  51621  CG1 ILE V  13     249.605 133.877   4.319  1.00 15.39      VTHX
ATOM  51622  CD1 ILE V  13     249.727 134.806   3.147  1.00 15.39      VTHX
ATOM  51623  C   ILE V  13     246.876 131.522   5.474  1.00 37.53      VTHX
ATOM  51624  O   ILE V  13     245.929 131.847   6.207  1.00 37.53      VTHX
ATOM  51625  N   TRP V  14     246.785 130.558   4.567  1.00 59.69      VTHX
ATOM  51626  CA  TRP V  14     245.558 129.800   4.407  1.00 59.69      VTHX
ATOM  51627  CB  TRP V  14     245.750 128.700   3.376  1.00 48.11      VTHX
ATOM  51628  CG  TRP V  14     244.468 128.100   2.919  1.00 48.11      VTHX
ATOM  51629  CD2 TRP V  14     243.886 126.887   3.387  1.00 48.11      VTHX
ATOM  51630  CE2 TRP V  14     242.688 126.699   2.675  1.00 48.11      VTHX
ATOM  51631  CE3 TRP V  14     244.261 125.938   4.346  1.00 48.11      VTHX
ATOM  51632  CD1 TRP V  14     243.619 128.593   1.970  1.00 48.11      VTHX
ATOM  51633  NE1 TRP V  14     242.549 127.756   1.815  1.00 48.11      VTHX
ATOM  51634  CZ2 TRP V  14     241.864 125.599   2.888  1.00 48.11      VTHX
ATOM  51635  CZ3 TRP V  14     243.443 124.849   4.559  1.00 48.11      VTHX
ATOM  51636  CH2 TRP V  14     242.257 124.686   3.833  1.00 48.11      VTHX
ATOM  51637  C   TRP V  14     245.194 129.182   5.744  1.00 59.69      VTHX
ATOM  51638  O   TRP V  14     244.067 129.329   6.219  1.00 59.69      VTHX
ATOM  51639  N   ARG V  15     246.157 128.493   6.350  1.00 50.56      VTHX
ATOM  51640  CA  ARG V  15     245.922 127.863   7.639  1.00 50.56      VTHX
ATOM  51641  CB  ARG V  15     246.948 126.743   7.905  1.00 70.19      VTHX
ATOM  51642  CG  ARG V  15     246.630 125.437   7.162  1.00 70.19      VTHX
ATOM  51643  CD  ARG V  15     246.985 124.197   7.972  1.00 70.19      VTHX
ATOM  51644  NE  ARG V  15     248.136 123.480   7.424  1.00 70.19      VTHX
ATOM  51645  CZ  ARG V  15     248.709 122.414   7.989  1.00 70.19      VTHX
ATOM  51646  NH1 ARG V  15     248.243 121.924   9.133  1.00 70.19      VTHX
ATOM  51647  NH2 ARG V  15     249.760 121.838   7.415  1.00 70.19      VTHX
ATOM  51648  C   ARG V  15     245.935 128.896   8.760  1.00 50.56      VTHX
ATOM  51649  O   ARG V  15     245.952 128.554   9.941  1.00 50.56      VTHX
ATOM  51650  N   GLY V  16     245.906 130.168   8.386  1.00 69.21      VTHX
ATOM  51651  CA  GLY V  16     245.899 131.218   9.387  1.00 69.21      VTHX
ATOM  51652  C   GLY V  16     246.996 131.114  10.433  1.00 69.21      VTHX
ATOM  51653  O   GLY V  16     246.812 131.520  11.584  1.00 69.21      VTHX
ATOM  51654  N   THR V  17     248.136 130.553  10.046  1.00 37.99      VTHX
ATOM  51655  CA  THR V  17     249.253 130.446  10.965  1.00 37.99      VTHX
ATOM  51656  CB  THR V  17     249.845 129.005  11.066  1.00 37.51      VTHX
ATOM  51657  OG1 THR V  17     250.308 128.576   9.783  1.00 37.51      VTHX
ATOM  51658  CG2 THR V  17     248.820 128.029  11.589  1.00 37.51      VTHX
ATOM  51659  C   THR V  17     250.383 131.369  10.527  1.00 37.99      VTHX
ATOM  51660  O   THR V  17     250.311 132.070   9.499  1.00 37.99      VTHX
ATOM  51661  N   TYR V  18     251.417 131.357  11.361  1.00 64.10      VTHX
ATOM  51662  CA  TYR V  18     252.631 132.120  11.174  1.00 64.10      VTHX
ATOM  51663  CB  TYR V  18     252.668 133.310  12.122  1.00 56.09      VTHX
ATOM  51664  CG  TYR V  18     251.770 134.458  11.741  1.00 56.09      VTHX
ATOM  51665  CD1 TYR V  18     250.552 134.652  12.373  1.00 56.09      VTHX
ATOM  51666  CE1 TYR V  18     249.754 135.763  12.080  1.00 56.09      VTHX
ATOM  51667  CD2 TYR V  18     252.176 135.395  10.792  1.00 56.09      VTHX
ATOM  51668  CE2 TYR V  18     251.395 136.510  10.487  1.00 56.09      VTHX
ATOM  51669  CZ  TYR V  18     250.182 136.694  11.136  1.00 56.09      VTHX
ATOM  51670  OH  TYR V  18     249.410 137.813  10.858  1.00 56.09      VTHX
ATOM  51671  C   TYR V  18     253.727 131.144  11.552  1.00 64.10      VTHX
ATOM  51672  O   TYR V  18     253.547 130.321  12.451  1.00 64.10      VTHX
ATOM  51673  N   GLY V  19     254.858 131.224  10.866  1.00 66.49      VTHX
ATOM  51674  CA  GLY V  19     255.947 130.318  11.171  1.00 66.49      VTHX
ATOM  51675  C   GLY V  19     257.223 130.676  10.445  1.00 66.49      VTHX
ATOM  51676  O   GLY V  19     257.372 131.785   9.929  1.00 66.49      VTHX
ATOM  51677  N   LYS V  20     258.154 129.736  10.402  1.00 82.15      VTHX
ATOM  51678  CA  LYS V  20     259.396 130.013   9.729  1.00 82.15      VTHX
ATOM  51679  CB  LYS V  20     260.261 128.762   9.635  1.00 51.32      VTHX
ATOM  51680  CG  LYS V  20     261.513 129.002   8.811  1.00 51.32      VTHX
ATOM  51681  CD  LYS V  20     262.654 128.065   9.166  1.00 51.32      VTHX
ATOM  51682  CE  LYS V  20     262.403 126.648   8.706  1.00 51.32      VTHX
ATOM  51683  NZ  LYS V  20     263.556 125.788   9.075  1.00 51.32      VTHX
ATOM  51684  C   LYS V  20     259.120 130.547   8.338  1.00 82.15      VTHX
ATOM  51685  O   LYS V  20     259.880 131.366   7.825  1.00 82.15      VTHX
ATOM  51686  N   TYR V  21     258.020 130.107   7.734  1.00 64.01      VTHX
ATOM  51687  CA  TYR V  21     257.695 130.550   6.385  1.00 64.01      VTHX
ATOM  51688  CB  TYR V  21     257.141 129.384   5.589  1.00 34.78      VTHX
ATOM  51689  CG  TYR V  21     258.097 128.221   5.545  1.00 34.78      VTHX
ATOM  51690  CD1 TYR V  21     258.124 127.274   6.571  1.00 34.78      VTHX
ATOM  51691  CE1 TYR V  21     259.051 126.219   6.559  1.00 34.78      VTHX
ATOM  51692  CD2 TYR V  21     259.016 128.092   4.502  1.00 34.78      VTHX
ATOM  51693  CE2 TYR V  21     259.947 127.051   4.480  1.00 34.78      VTHX
ATOM  51694  CZ  TYR V  21     259.966 126.116   5.510  1.00 34.78      VTHX
ATOM  51695  OH  TYR V  21     260.907 125.101   5.496  1.00 34.78      VTHX
ATOM  51696  C   TYR V  21     256.761 131.750   6.278  1.00 64.01      VTHX
ATOM  51697  O   TYR V  21     256.434 132.192   5.177  1.00 64.01      VTHX
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ATOM  51698  N   ARG V  22     256.333 132.274   7.421  1.00 62.72      VTHX
ATOM  51699  CA  ARG V  22     255.464 133.450   7.470  1.00 62.72      VTHX
ATOM  51700  CB  ARG V  22     254.013 133.098   7.150  1.00 47.41      VTHX
ATOM  51701  CG  ARG V  22     253.117 134.331   7.000  1.00 47.41      VTHX
ATOM  51702  CD  ARG V  22     251.684 134.044   7.446  1.00 47.41      VTHX
ATOM  51703  NE  ARG V  22     250.791 135.183   7.247  1.00 47.41      VTHX
ATOM  51704  CZ  ARG V  22     249.565 135.258   7.755  1.00 47.41      VTHX
ATOM  51705  NH1 ARG V  22     249.090 134.261   8.498  1.00 47.41      VTHX
ATOM  51706  NH2 ARG V  22     248.816 136.326   7.514  1.00 47.41      VTHX
ATOM  51707  C   ARG V  22     255.561 133.945   8.897  1.00 62.72      VTHX
ATOM  51708  O   ARG V  22     254.718 133.642   9.738  1.00 62.72      VTHX
ATOM  51709  N   PRO V  23     256.613 134.706   9.193  1.00111.04      VTHX
ATOM  51710  CD  PRO V  23     257.732 135.040   8.304  1.00 71.90      VTHX
ATOM  51711  CA  PRO V  23     256.839 135.246  10.531  1.00111.04      VTHX
ATOM  51712  CB  PRO V  23     258.302 135.695  10.480  1.00 71.90      VTHX
ATOM  51713  CG  PRO V  23     258.871 134.978   9.256  1.00 71.90      VTHX
ATOM  51714  C   PRO V  23     255.903 136.404  10.823  1.00111.04      VTHX
ATOM  51715  O   PRO V  23     255.341 137.005   9.903  1.00111.04      VTHX
ATOM  51716  N   ARG V  24     255.735 136.714  12.105  1.00 97.16      VTHX
ATOM  51717  CA  ARG V  24     254.886 137.826  12.488  1.00 97.16      VTHX
ATOM  51718  CB  ARG V  24     254.537 137.749  13.971  1.00146.39      VTHX
ATOM  51719  CG  ARG V  24     253.526 136.671  14.296  1.00146.39      VTHX
ATOM  51720  CD  ARG V  24     252.985 136.835  15.703  1.00146.39      VTHX
ATOM  51721  NE  ARG V  24     251.872 135.930  15.979  1.00146.39      VTHX
ATOM  51722  CZ  ARG V  24     251.970 134.604  16.009  1.00146.39      VTHX
ATOM  51723  NH1 ARG V  24     253.137 134.016  15.780  1.00146.39      VTHX
ATOM  51724  NH2 ARG V  24     250.898 133.863  16.271  1.00146.39      VTHX
ATOM  51725  C   ARG V  24     255.623 139.124  12.179  1.00 97.16      VTHX
ATOM  51726  O   ARG V  24     255.256 140.192  12.663  1.00 97.16      VTHX
ATOM  51727  N   LYS V  25     256.668 139.011  11.361  1.00201.26      VTHX
ATOM  51728  CA  LYS V  25     257.485 140.148  10.937  1.00201.26      VTHX
ATOM  51729  CB  LYS V  25     256.606 141.197  10.246  1.00161.08      VTHX
ATOM  51730  CG  LYS V  25     255.837 140.650   9.048  1.00161.08      VTHX
ATOM  51731  CD  LYS V  25     255.107 141.741   8.282  1.00161.08      VTHX
ATOM  51732  CE  LYS V  25     254.397 141.159   7.068  1.00161.08      VTHX
ATOM  51733  NZ  LYS V  25     253.781 142.211   6.215  1.00161.08      VTHX
ATOM  51734  C   LYS V  25     258.276 140.793  12.072  1.00201.26      VTHX
ATOM  51735  O   LYS V  25     258.180 140.295  13.213  1.00201.26      VTHX
ATOM  51736  OXT LYS V  25     258.990 141.784  11.798  1.00161.08      VTHX
TER   51736       LYS V  25                                             VTHX
ATOM  51737  O5* G   Y  30     208.253  90.470  16.584  1.00195.59      YASL
ATOM  51738  C5* G   Y  30     208.432  91.577  15.695  1.00195.59      YASL
ATOM  51739  C4* G   Y  30     209.788  91.580  15.022  1.00195.59      YASL
ATOM  51740  O4* G   Y  30     209.962  90.343  14.286  1.00195.59      YASL
ATOM  51741  C1* G   Y  30     210.707  90.588  13.105  1.00195.59      YASL
ATOM  51742  N9  G   Y  30     209.963  90.053  11.963  1.00184.90      YASL
ATOM  51743  C4  G   Y  30     210.249  90.236  10.627  1.00184.90      YASL
ATOM  51744  N3  G   Y  30     211.268  90.965  10.123  1.00184.90      YASL
ATOM  51745  C2  G   Y  30     211.284  90.942   8.800  1.00184.90      YASL
ATOM  51746  N2  G   Y  30     212.230  91.616   8.131  1.00184.90      YASL
ATOM  51747  N1  G   Y  30     210.376  90.258   8.034  1.00184.90      YASL
ATOM  51748  C6  G   Y  30     209.319  89.502   8.529  1.00184.90      YASL
ATOM  51749  O6  G   Y  30     208.554  88.926   7.748  1.00184.90      YASL
ATOM  51750  C5  G   Y  30     209.288  89.517   9.946  1.00184.90      YASL
ATOM  51751  N7  G   Y  30     208.414  88.900  10.830  1.00184.90      YASL
ATOM  51752  C8  G   Y  30     208.848  89.248  12.011  1.00184.90      YASL
ATOM  51753  C2* G   Y  30     211.048  92.083  13.053  1.00195.59      YASL
ATOM  51754  O2* G   Y  30     212.380  92.267  13.492  1.00195.59      YASL
ATOM  51755  C3* G   Y  30     210.010  92.686  14.000  1.00195.59      YASL
ATOM  51756  O3* G   Y  30     210.490  93.872  14.638  1.00195.59      YASL
ATOM  51757  P   A   Y  31     209.871  95.305  14.246  1.00156.07      YASL
ATOM  51758  O1P A   Y  31     210.368  96.292  15.236  1.00137.67      YASL
ATOM  51759  O2P A   Y  31     208.408  95.147  14.044  1.00137.67      YASL
ATOM  51760  O5* A   Y  31     210.545  95.646  12.845  1.00156.07      YASL
ATOM  51761  C5* A   Y  31     211.937  95.997  12.768  1.00156.07      YASL
ATOM  51762  C4* A   Y  31     212.338  96.246  11.334  1.00156.07      YASL
ATOM  51763  O4* A   Y  31     212.243  95.012  10.580  1.00156.07      YASL
ATOM  51764  C1* A   Y  31     211.873  95.299   9.243  1.00156.07      YASL
ATOM  51765  N9  A   Y  31     210.701  94.492   8.893  1.00137.67      YASL
ATOM  51766  C4  A   Y  31     210.235  94.251   7.621  1.00137.67      YASL
ATOM  51767  N3  A   Y  31     210.745  94.706   6.464  1.00137.67      YASL
ATOM  51768  C2  A   Y  31     210.030  94.267   5.431  1.00137.67      YASL
ATOM  51769  N1  A   Y  31     208.944  93.485   5.421  1.00137.67      YASL
ATOM  51770  C6  A   Y  31     208.456  93.044   6.600  1.00137.67      YASL
ATOM  51771  N6  A   Y  31     207.372  92.265   6.591  1.00137.67      YASL
ATOM  51772  C5  A   Y  31     209.126  93.438   7.773  1.00137.67      YASL
ATOM  51773  N7  A   Y  31     208.895  93.170   9.115  1.00137.67      YASL
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ATOM  51774  C8  A   Y  31     209.851  93.817   9.736  1.00137.67      YASL
ATOM  51775  C2* A   Y  31     211.679  96.814   9.113  1.00156.07      YASL
ATOM  51776  O2* A   Y  31     212.827  97.378   8.510  1.00156.07      YASL
ATOM  51777  C3* A   Y  31     211.483  97.242  10.568  1.00156.07      YASL
ATOM  51778  O3* A   Y  31     211.934  98.577  10.806  1.00156.07      YASL
ATOM  51779  P   U   Y  32     210.872  99.785  10.880  1.00152.60      YASL
ATOM  51780  O1P U   Y  32     209.830  99.408  11.875  1.00109.11      YASL
ATOM  51781  O2P U   Y  32     211.627 101.058  11.052  1.00109.11      YASL
ATOM  51782  O5* U   Y  32     210.202  99.793   9.434  1.00152.60      YASL
ATOM  51783  C5* U   Y  32     211.006  99.935   8.243  1.00152.60      YASL
ATOM  51784  C4* U   Y  32     210.203  99.558   7.022  1.00152.60      YASL
ATOM  51785  O4* U   Y  32     209.869  98.149   7.073  1.00152.60      YASL
ATOM  51786  C1* U   Y  32     208.571  97.944   6.542  1.00152.60      YASL
ATOM  51787  N1  U   Y  32     207.742  97.280   7.565  1.00109.11      YASL
ATOM  51788  C6  U   Y  32     208.122  97.242   8.889  1.00109.11      YASL
ATOM  51789  C2  U   Y  32     206.559  96.681   7.152  1.00109.11      YASL
ATOM  51790  O2  U   Y  32     206.174  96.696   5.992  1.00109.11      YASL
ATOM  51791  N3  U   Y  32     205.842  96.063   8.147  1.00109.11      YASL
ATOM  51792  C4  U   Y  32     206.170  95.984   9.484  1.00109.11      YASL
ATOM  51793  O4  U   Y  32     205.417  95.389  10.260  1.00109.11      YASL
ATOM  51794  C5  U   Y  32     207.398  96.630   9.834  1.00109.11      YASL
ATOM  51795  C2* U   Y  32     208.035  99.297   6.066  1.00152.60      YASL
ATOM  51796  O2* U   Y  32     208.251  99.420   4.675  1.00152.60      YASL
ATOM  51797  C3* U   Y  32     208.870 100.271   6.889  1.00152.60      YASL
ATOM  51798  O3* U   Y  32     209.038 101.527   6.250  1.00152.60      YASL
ATOM  51799  P   U   Y  33     208.114 102.768   6.680  1.00 78.05      YASL
ATOM  51800  O1P U   Y  33     208.575 103.952   5.916  1.00 95.29      YASL
ATOM  51801  O2P U   Y  33     208.040 102.834   8.167  1.00 95.29      YASL
ATOM  51802  O5* U   Y  33     206.681 102.379   6.111  1.00 78.05      YASL
ATOM  51803  C5* U   Y  33     205.504 102.929   6.690  1.00 78.05      YASL
ATOM  51804  C4* U   Y  33     204.279 102.311   6.078  1.00 78.05      YASL
ATOM  51805  O4* U   Y  33     204.383 100.867   6.111  1.00 78.05      YASL
ATOM  51806  C1* U   Y  33     203.123 100.306   6.425  1.00 78.05      YASL
ATOM  51807  N1  U   Y  33     203.255  99.531   7.672  1.00 95.29      YASL
ATOM  51808  C6  U   Y  33     204.264  99.791   8.573  1.00 95.29      YASL
ATOM  51809  C2  U   Y  33     202.335  98.519   7.916  1.00 95.29      YASL
ATOM  51810  O2  U   Y  33     201.418  98.256   7.159  1.00 95.29      YASL
ATOM  51811  N3  U   Y  33     202.530  97.825   9.086  1.00 95.29      YASL
ATOM  51812  C4  U   Y  33     203.524  98.028  10.020  1.00 95.29      YASL
ATOM  51813  O4  U   Y  33     203.583  97.298  11.018  1.00 95.29      YASL
ATOM  51814  C5  U   Y  33     204.425  99.093   9.704  1.00 95.29      YASL
ATOM  51815  C2* U   Y  33     202.113 101.452   6.505  1.00 78.05      YASL
ATOM  51816  O2* U   Y  33     201.499 101.579   5.239  1.00 78.05      YASL
ATOM  51817  C3* U   Y  33     203.013 102.634   6.845  1.00 78.05      YASL
ATOM  51818  O3* U   Y  33     202.498 103.899   6.430  1.00 78.05      YASL
ATOM  51819  P   G   Y  34     202.802 105.217   7.313  1.00 56.13      YASL
ATOM  51820  O1P G   Y  34     202.199 106.390   6.617  1.00 74.21      YASL
ATOM  51821  O2P G   Y  34     204.253 105.234   7.632  1.00 74.21      YASL
ATOM  51822  O5* G   Y  34     202.026 104.952   8.680  1.00 56.13      YASL
ATOM  51823  C5* G   Y  34     200.723 105.510   8.891  1.00 56.13      YASL
ATOM  51824  C4* G   Y  34     199.856 104.560   9.674  1.00 56.13      YASL
ATOM  51825  O4* G   Y  34     198.470 104.902   9.378  1.00 56.13      YASL
ATOM  51826  C1* G   Y  34     197.790 103.775   8.863  1.00 56.13      YASL
ATOM  51827  N9  G   Y  34     197.830 103.861   7.394  1.00 74.21      YASL
ATOM  51828  C4  G   Y  34     196.966 103.268   6.493  1.00 74.21      YASL
ATOM  51829  N3  G   Y  34     195.905 102.497   6.797  1.00 74.21      YASL
ATOM  51830  C2  G   Y  34     195.273 102.079   5.714  1.00 74.21      YASL
ATOM  51831  N2  G   Y  34     194.187 101.310   5.840  1.00 74.21      YASL
ATOM  51832  N1  G   Y  34     195.658 102.385   4.432  1.00 74.21      YASL
ATOM  51833  C6  G   Y  34     196.750 103.174   4.093  1.00 74.21      YASL
ATOM  51834  O6  G   Y  34     197.016 103.387   2.903  1.00 74.21      YASL
ATOM  51835  C5  G   Y  34     197.430 103.637   5.243  1.00 74.21      YASL
ATOM  51836  N7  G   Y  34     198.548 104.446   5.351  1.00 74.21      YASL
ATOM  51837  C8  G   Y  34     198.750 104.550   6.635  1.00 74.21      YASL
ATOM  51838  C2* G   Y  34     198.568 102.583   9.421  1.00 56.13      YASL
ATOM  51839  O2* G   Y  34     198.167 102.365  10.758  1.00 56.13      YASL
ATOM  51840  C3* G   Y  34     199.995 103.100   9.273  1.00 56.13      YASL
ATOM  51841  O3* G   Y  34     201.110 102.479   9.933  1.00 56.13      YASL
ATOM  51842  P   A   Y  35     200.901 101.325  11.040  1.00 79.01      YASL
ATOM  51843  O1P A   Y  35     200.308 101.970  12.236  1.00 73.34      YASL
ATOM  51844  O2P A   Y  35     202.195 100.627  11.157  1.00 73.34      YASL
ATOM  51845  O5* A   Y  35     199.859 100.266  10.461  1.00 79.01      YASL
ATOM  51846  C5* A   Y  35     199.200  99.343  11.368  1.00 79.01      YASL
ATOM  51847  C4* A   Y  35     198.093  98.580  10.669  1.00 79.01      YASL
ATOM  51848  O4* A   Y  35     197.382  99.479   9.780  1.00 79.01      YASL
ATOM  51849  C1* A   Y  35     196.946  98.771   8.637  1.00 79.01      YASL
ATOM  51850  N9  A   Y  35     197.488  99.428   7.446  1.00 73.34      YASL
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ATOM  51851  C4  A  Y  35     197.143  99.153   6.145  1.00 73.34      YASL
ATOM  51852  N3  A  Y  35     196.267  98.229   5.710  1.00 73.34      YASL
ATOM  51853  C2  A  Y  35     196.193  98.242   4.381  1.00 73.34      YASL
ATOM  51854  N1  A  Y  35     196.849  99.014   3.503  1.00 73.34      YASL
ATOM  51855  C6  A  Y  35     197.723  99.931   3.973  1.00 73.34      YASL
ATOM  51856  N6  A  Y  35     198.378 100.695   3.099  1.00 73.34      YASL
ATOM  51857  C5  A  Y  35     197.890 100.021   5.366  1.00 73.34      YASL
ATOM  51858  N7  A  Y  35     198.690 100.827   6.160  1.00 73.34      YASL
ATOM  51859  C8  A  Y  35     198.419 100.434   7.378  1.00 73.34      YASL
ATOM  51860  C2* A  Y  35     197.355  97.303   8.796  1.00 79.01      YASL
ATOM  51861  O2* A  Y  35     196.238  96.584   9.289  1.00 79.01      YASL
ATOM  51862  C3* A  Y  35     198.507  97.396   9.799  1.00 79.01      YASL
ATOM  51863  O3* A  Y  35     198.617  96.202  10.596  1.00 79.01      YASL
ATOM  51864  P   A  Y  36     199.691  95.059  10.205  1.00 80.10      YASL
ATOM  51865  O1P A  Y  36     199.420  93.878  11.078  1.00 75.26      YASL
ATOM  51866  O2P A  Y  36     201.036  95.678  10.224  1.00 75.26      YASL
ATOM  51867  O5* A  Y  36     199.332  94.674   8.693  1.00 80.10      YASL
ATOM  51868  C5* A  Y  36     198.159  93.882   8.415  1.00 80.10      YASL
ATOM  51869  C4* A  Y  36     197.844  93.803   6.926  1.00 80.10      YASL
ATOM  51870  O4* A  Y  36     197.525  95.096   6.354  1.00 80.10      YASL
ATOM  51871  C1* A  Y  36     197.690  95.032   4.952  1.00 80.10      YASL
ATOM  51872  N9  A  Y  36     198.585  96.100   4.527  1.00 75.26      YASL
ATOM  51873  C4  A  Y  36     198.900  96.428   3.229  1.00 75.26      YASL
ATOM  51874  N3  A  Y  36     198.476  95.824   2.107  1.00 75.26      YASL
ATOM  51875  C2  A  Y  36     198.988  96.422   1.029  1.00 75.26      YASL
ATOM  51876  N1  A  Y  36     199.809  97.475   0.952  1.00 75.26      YASL
ATOM  51877  C6  A  Y  36     200.214  98.059   2.098  1.00 75.26      YASL
ATOM  51878  N6  A  Y  36     201.027  99.115   2.023  1.00 75.26      YASL
ATOM  51879  C5  A  Y  36     199.749  97.514   3.310  1.00 75.26      YASL
ATOM  51880  N7  A  Y  36     199.977  97.854   4.634  1.00 75.26      YASL
ATOM  51881  C8  A  Y  36     199.269  96.984   5.312  1.00 75.26      YASL
ATOM  51882  C2* A  Y  36     198.240  93.650   4.613  1.00 80.10      YASL
ATOM  51883  O2* A  Y  36     197.143  92.832   4.265  1.00 80.10      YASL
ATOM  51884  C3* A  Y  36     198.835  93.208   5.943  1.00 80.10      YASL
ATOM  51885  O3* A  Y  36     198.833  91.790   5.995  1.00 80.10      YASL
ATOM  51886  P   A  Y  37     200.096  90.972   5.432  1.00 83.06      YASL
ATOM  51887  O1P A  Y  37     201.325  91.713   5.820  1.00 95.18      YASL
ATOM  51888  O2P A  Y  37     199.922  89.554   5.850  1.00 95.18      YASL
ATOM  51889  O5* A  Y  37     199.973  91.067   3.845  1.00 83.06      YASL
ATOM  51890  C5* A  Y  37     198.998  90.281   3.131  1.00 83.06      YASL
ATOM  51891  C4* A  Y  37     199.057  90.581   1.653  1.00 83.06      YASL
ATOM  51892  O4* A  Y  37     198.881  92.006   1.465  1.00 83.06      YASL
ATOM  51893  C1* A  Y  37     199.680  92.453   0.389  1.00 83.06      YASL
ATOM  51894  N9  A  Y  37     200.639  93.430   0.906  1.00 95.18      YASL
ATOM  51895  C4  A  Y  37     201.426  94.264   0.148  1.00 95.18      YASL
ATOM  51896  N3  A  Y  37     201.475  94.340  -1.194  1.00 95.18      YASL
ATOM  51897  C2  A  Y  37     202.358  95.260  -1.580  1.00 95.18      YASL
ATOM  51898  N1  A  Y  37     203.135  96.057  -0.834  1.00 95.18      YASL
ATOM  51899  C6  A  Y  37     203.058  95.957   0.512  1.00 95.18      YASL
ATOM  51900  N6  A  Y  37     203.826  96.759   1.257  1.00 95.18      YASL
ATOM  51901  C5  A  Y  37     202.163  95.010   1.049  1.00 95.18      YASL
ATOM  51902  N7  A  Y  37     201.852  94.651   2.355  1.00 95.18      YASL
ATOM  51903  C8  A  Y  37     200.948  93.714   2.216  1.00 95.18      YASL
ATOM  51904  C2* A  Y  37     200.356  91.230  -0.225  1.00 83.06      YASL
ATOM  51905  O2* A  Y  37     199.563  90.793  -1.309  1.00 83.06      YASL
ATOM  51906  C3* A  Y  37     200.368  90.260   0.953  1.00 83.06      YASL
ATOM  51907  O3* A  Y  37     200.418  88.894   0.538  1.00 83.06      YASL
ATOM  51908  P   A  Y  38     201.734  88.008   0.839  1.00102.90      YASL
ATOM  51909  O1P A  Y  38     201.504  86.679   0.215  1.00 92.05      YASL
ATOM  51910  O2P A  Y  38     202.048  88.090   2.293  1.00 92.05      YASL
ATOM  51911  O5* A  Y  38     202.887  88.730   0.009  1.00102.90      YASL
ATOM  51912  C5* A  Y  38     202.830  88.766  -1.424  1.00102.90      YASL
ATOM  51913  C4* A  Y  38     203.752  89.826  -1.963  1.00102.90      YASL
ATOM  51914  O4* A  Y  38     203.381  91.108  -1.401  1.00102.90      YASL
ATOM  51915  C1* A  Y  38     204.538  91.904  -1.219  1.00102.90      YASL
ATOM  51916  N9  A  Y  38     204.668  92.212   0.202  1.00 92.05      YASL
ATOM  51917  C4  A  Y  38     205.340  93.286   0.740  1.00 92.05      YASL
ATOM  51918  N3  A  Y  38     205.999  94.256   0.078  1.00 92.05      YASL
ATOM  51919  C2  A  Y  38     206.533  95.129   0.933  1.00 92.05      YASL
ATOM  51920  N1  A  Y  38     206.487  95.144   2.272  1.00 92.05      YASL
ATOM  51921  C6  A  Y  38     205.819  94.155   2.907  1.00 92.05      YASL
ATOM  51922  N6  A  Y  38     205.774  94.166   4.240  1.00 92.05      YASL
ATOM  51923  C5  A  Y  38     205.206  93.165   2.113  1.00 92.05      YASL
ATOM  51924  N7  A  Y  38     204.465  92.033   2.436  1.00 92.05      YASL
ATOM  51925  C8  A  Y  38     204.171  91.507   1.271  1.00 92.05      YASL
ATOM  51926  C2* A  Y  38     205.734  91.106  -1.733  1.00102.90      YASL
ATOM  51927  O2* A  Y  38     206.009  91.491  -3.068  1.00102.90      YASL
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ATOM  51928  C3* A   Y  38     205.223  89.676  -1.615  1.00102.90      YASL
ATOM  51929  O3* A   Y  38     205.896  88.784  -2.497  1.00102.90      YASL
ATOM  51930  P   U   Y  39     207.230  88.034  -2.003  1.00118.59      YASL
ATOM  51931  O1P U   Y  39     207.633  87.102  -3.082  1.00 96.83      YASL
ATOM  51932  O2P U   Y  39     207.030  87.517  -0.620  1.00 96.83      YASL
ATOM  51933  O5* U   Y  39     208.302  89.203  -1.914  1.00118.59      YASL
ATOM  51934  C5* U   Y  39     209.021  89.650  -3.071  1.00118.59      YASL
ATOM  51935  C4* U   Y  39     210.116  90.586  -2.641  1.00118.59      YASL
ATOM  51936  O4* U   Y  39     209.495  91.750  -2.030  1.00118.59      YASL
ATOM  51937  C1* U   Y  39     210.236  92.149  -0.885  1.00118.59      YASL
ATOM  51938  N1  U   Y  39     209.395  91.949   0.313  1.00 96.83      YASL
ATOM  51939  C6  U   Y  39     208.502  90.893   0.399  1.00 96.83      YASL
ATOM  51940  C2  U   Y  39     209.538  92.837   1.370  1.00 96.83      YASL
ATOM  51941  O2  U   Y  39     210.296  93.792   1.340  1.00 96.83      YASL
ATOM  51942  N3  U   Y  39     208.757  92.562   2.468  1.00 96.83      YASL
ATOM  51943  C4  U   Y  39     207.863  91.521   2.616  1.00 96.83      YASL
ATOM  51944  O4  U   Y  39     207.211  91.427   3.659  1.00 96.83      YASL
ATOM  51945  C5  U   Y  39     207.759  90.657   1.484  1.00 96.83      YASL
ATOM  51946  C2* U   Y  39     211.496  91.277  -0.834  1.00118.59      YASL
ATOM  51947  O2* U   Y  39     212.578  91.894  -1.507  1.00118.59      YASL
ATOM  51948  C3* U   Y  39     211.021  90.024  -1.551  1.00118.59      YASL
ATOM  51949  O3* U   Y  39     212.096  89.220  -2.028  1.00118.59      YASL
ATOM  51950  P   C   Y  40     212.688  88.051  -1.088  1.00201.26      YASL
ATOM  51951  O1P C   Y  40     213.667  87.285  -1.896  1.00162.26      YASL
ATOM  51952  O2P C   Y  40     211.560  87.334  -0.437  1.00162.26      YASL
ATOM  51953  O5* C   Y  40     213.481  88.838   0.049  1.00201.26      YASL
ATOM  51954  C5* C   Y  40     214.676  89.585  -0.260  1.00201.26      YASL
ATOM  51955  C4* C   Y  40     215.232  90.231   0.988  1.00201.26      YASL
ATOM  51956  O4* C   Y  40     214.301  91.229   1.483  1.00201.26      YASL
ATOM  51957  C1* C   Y  40     214.358  91.271   2.901  1.00201.26      YASL
ATOM  51958  N1  C   Y  40     213.010  90.987   3.433  1.00162.26      YASL
ATOM  51959  C6  C   Y  40     212.186  90.087   2.814  1.00162.26      YASL
ATOM  51960  C2  C   Y  40     212.586  91.643   4.600  1.00162.26      YASL
ATOM  51961  O2  C   Y  40     213.337  92.475   5.136  1.00162.26      YASL
ATOM  51962  N3  C   Y  40     211.369  91.355   5.112  1.00162.26      YASL
ATOM  51963  C4  C   Y  40     210.583  90.463   4.506  1.00162.26      YASL
ATOM  51964  N4  C   Y  40     209.397  90.201   5.055  1.00162.26      YASL
ATOM  51965  C5  C   Y  40     210.978  89.798   3.311  1.00162.26      YASL
ATOM  51966  C2* C   Y  40     215.409  90.252   3.363  1.00201.26      YASL
ATOM  51967  O2* C   Y  40     216.641  90.911   3.583  1.00201.26      YASL
ATOM  51968  C3* C   Y  40     215.460  89.304   2.172  1.00201.26      YASL
ATOM  51969  O3* C   Y  40     216.504  88.322   2.087  1.00201.26      YASL
TER   51969       C   Y  40                                             YASL
ATOM  51970  O5* U   Z   1     199.786  99.814  -8.569  1.00 66.09      ZU6M
ATOM  51971  C5* U   Z   1     198.651  99.415  -7.808  1.00 66.09      ZU6M
ATOM  51972  C4* U   Z   1     198.526  97.922  -7.553  1.00 66.09      ZU6M
ATOM  51973  O4* U   Z   1     199.773  97.421  -7.005  1.00 66.09      ZU6M
ATOM  51974  C1* U   Z   1     199.511  96.519  -5.934  1.00 66.09      ZU6M
ATOM  51975  N1  U   Z   1     199.997  97.140  -4.682  1.00115.13      ZU6M
ATOM  51976  C6  U   Z   1     200.709  98.325  -4.701  1.00115.13      ZU6M
ATOM  51977  C2  U   Z   1     199.706  96.512  -3.466  1.00115.13      ZU6M
ATOM  51978  O2  U   Z   1     199.104  95.450  -3.383  1.00115.13      ZU6M
ATOM  51979  N3  U   Z   1     200.152  97.178  -2.351  1.00115.13      ZU6M
ATOM  51980  C4  U   Z   1     200.848  98.367  -2.311  1.00115.13      ZU6M
ATOM  51981  O4  U   Z   1     201.137  98.861  -1.222  1.00115.13      ZU6M
ATOM  51982  C5  U   Z   1     201.130  98.938  -3.591  1.00115.13      ZU6M
ATOM  51983  C2* U   Z   1     198.001  96.266  -5.913  1.00 66.09      ZU6M
ATOM  51984  O2* U   Z   1     197.667  95.112  -6.661  1.00 66.09      ZU6M
ATOM  51985  C3* U   Z   1     197.476  97.562  -6.509  1.00 66.09      ZU6M
ATOM  51986  O3* U   Z   1     196.168  97.432  -7.049  1.00 66.09      ZU6M
ATOM  51987  P   U   Z   2     194.944  98.207  -6.352  1.00 66.79      ZU6M
ATOM  51988  O1P U   Z   2     194.114  98.755  -7.456  1.00 86.75      ZU6M
ATOM  51989  O2P U   Z   2     195.475  99.129  -5.312  1.00 86.75      ZU6M
ATOM  51990  O5* U   Z   2     194.137  97.053  -5.610  1.00 66.79      ZU6M
ATOM  51991  C5* U   Z   2     194.772  96.283  -4.590  1.00 66.79      ZU6M
ATOM  51992  C4* U   Z   2     193.804  95.940  -3.484  1.00 66.79      ZU6M
ATOM  51993  O4* U   Z   2     194.630  95.463  -2.390  1.00 66.79      ZU6M
ATOM  51994  C1* U   Z   2     194.278  96.121  -1.194  1.00 66.79      ZU6M
ATOM  51995  N1  U   Z   2     195.311  97.134  -0.915  1.00 86.75      ZU6M
ATOM  51996  C6  U   Z   2     195.853  97.902  -1.926  1.00 86.75      ZU6M
ATOM  51997  C2  U   Z   2     195.716  97.305   0.396  1.00 86.75      ZU6M
ATOM  51998  O2  U   Z   2     195.285  96.631   1.321  1.00 86.75      ZU6M
ATOM  51999  N3  U   Z   2     196.649  98.295   0.587  1.00 86.75      ZU6M
ATOM  52000  C4  U   Z   2     197.215  99.104  -0.377  1.00 86.75      ZU6M
ATOM  52001  O4  U   Z   2     198.023  99.972  -0.042  1.00 86.75      ZU6M
ATOM  52002  C5  U   Z   2     196.762  98.852  -1.706  1.00 86.75      ZU6M
ATOM  52003  C2* U   Z   2     192.906  96.748  -1.430  1.00 66.79      ZU6M
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ATOM  52004  O2*  U   Z   2     191.897  95.802  -1.145  1.00 66.79       ZU6M
ATOM  52005  C3*  U   Z   2     192.997  97.103  -2.906  1.00 66.79       ZU6M
ATOM  52006  O3*  U   Z   2     191.705  97.241  -3.512  1.00 66.79       ZU6M
ATOM  52007  P    U   Z   3     190.879  98.624  -3.348  1.00 62.67       ZU6M
ATOM  52008  O1P  U   Z   3     189.531  98.372  -3.912  1.00 79.22       ZU6M
ATOM  52009  O2P  U   Z   3     191.683  99.756  -3.883  1.00 79.22       ZU6M
ATOM  52010  O5*  U   Z   3     190.728  98.808  -1.768  1.00 62.67       ZU6M
ATOM  52011  C5*  U   Z   3     189.762  98.035  -1.021  1.00 62.67       ZU6M
ATOM  52012  C4*  U   Z   3     189.696  98.490   0.424  1.00 62.67       ZU6M
ATOM  52013  O4*  U   Z   3     190.957  98.207   1.074  1.00 62.67       ZU6M
ATOM  52014  C1*  U   Z   3     191.246  99.223   2.022  1.00 62.67       ZU6M
ATOM  52015  N1   U   Z   3     192.494  99.896   1.619  1.00 79.22       ZU6M
ATOM  52016  C6   U   Z   3     193.002  99.772   0.343  1.00 79.22       ZU6M
ATOM  52017  C2   U   Z   3     193.149 100.665   2.567  1.00 79.22       ZU6M
ATOM  52018  O2   U   Z   3     192.731 100.814   3.702  1.00 79.22       ZU6M
ATOM  52019  N3   U   Z   3     194.307 101.259   2.132  1.00 79.22       ZU6M
ATOM  52020  C4   U   Z   3     194.862 101.175   0.874  1.00 79.22       ZU6M
ATOM  52021  O4   U   Z   3     195.890 101.806   0.623  1.00 79.22       ZU6M
ATOM  52022  C5   U   Z   3     194.128 100.369  -0.048  1.00 79.22       ZU6M
ATOM  52023  C2*  U   Z   3     190.050 100.175   2.064  1.00 62.67       ZU6M
ATOM  52024  O2*  U   Z   3     189.166  99.784   3.096  1.00 62.67       ZU6M
ATOM  52025  C3*  U   Z   3     189.453  99.972   0.679  1.00 62.67       ZU6M
ATOM  52026  O3*  U   Z   3     188.076 100.314   0.663  1.00 62.67       ZU6M
ATOM  52027  P    U   Z   4     187.622 101.731   0.067  1.00 95.12       ZU6M
ATOM  52028  O1P  U   Z   4     186.150 101.812   0.219  1.00143.83       ZU6M
ATOM  52029  O2P  U   Z   4     188.233 101.905  -1.276  1.00143.83       ZU6M
ATOM  52030  O5*  U   Z   4     188.285 102.784   1.054  1.00 95.12       ZU6M
ATOM  52031  C5*  U   Z   4     187.844 102.885   2.412  1.00 95.12       ZU6M
ATOM  52032  C4*  U   Z   4     188.699 103.872   3.170  1.00 95.12       ZU6M
ATOM  52033  O4*  U   Z   4     190.064 103.380   3.256  1.00 95.12       ZU6M
ATOM  52034  C1*  U   Z   4     190.962 104.480   3.293  1.00 95.12       ZU6M
ATOM  52035  N1   U   Z   4     191.933 104.342   2.193  1.00143.83       ZU6M
ATOM  52036  C6   U   Z   4     191.601 103.711   1.015  1.00143.83       ZU6M
ATOM  52037  C2   U   Z   4     193.203 104.876   2.378  1.00143.83       ZU6M
ATOM  52038  O2   U   Z   4     193.551 105.437   3.408  1.00143.83       ZU6M
ATOM  52039  N3   U   Z   4     194.054 104.727   1.309  1.00143.83       ZU6M
ATOM  52040  C4   U   Z   4     193.780 104.110   0.106  1.00143.83       ZU6M
ATOM  52041  O4   U   Z   4     194.659 104.043  -0.755  1.00143.83       ZU6M
ATOM  52042  C5   U   Z   4     192.458 103.580  -0.004  1.00143.83       ZU6M
ATOM  52043  C2*  U   Z   4     190.129 105.768   3.220  1.00 95.12       ZU6M
ATOM  52044  O2*  U   Z   4     189.918 106.257   4.534  1.00 95.12       ZU6M
ATOM  52045  C3*  U   Z   4     188.842 105.266   2.574  1.00 95.12       ZU6M
ATOM  52046  O3*  U   Z   4     187.704 106.154   2.504  1.00 95.12       ZU6M
TER   52046       U   Z   4                                               ZU6M
HETATM52047 MG   MG  U  23     233.549 115.666  -5.168  0.91 27.02       UION
HETATM52048 MG   MG  U  24     228.806 111.095  13.312  1.41 27.02       UION
HETATM52049 MG   MG  U  27     164.553 106.034  -5.720  1.26 27.02       UION
HETATM52050 MG   MG  U  34     171.698 113.206  -2.425  0.66 27.02       UION
HETATM52051 MG   MG  U  42     114.759  64.883  18.322  1.39 27.02       UION
HETATM52052 MG   MG  U  45     133.685 124.070 -58.381  1.16 27.02       UION
HETATM52053 MG   MG  U  48     171.274  94.580 -49.896  1.72 27.02       UION
HETATM52054 MG   MG  U  49     177.930  94.375 -53.085  1.44 27.02       UION
HETATM52055 MG   MG  U  50     180.287  86.630 -56.938  1.60 27.02       UION
HETATM52056 MG   MG  U  53     199.538  98.296 -54.731  1.30 27.02       UION
HETATM52057 MG   MG  U  54     162.925 106.107 -38.909  1.58 27.02       UION
HETATM52058 MG   MG  U  55     159.611 127.650 -45.179  1.55 27.02       UION
HETATM52059 MG   MG  U  59     167.425 109.212  16.998  1.41 27.02       UION
HETATM52060 MG   MG  U  60     150.677  99.940  -8.876  1.60 27.02       UION
HETATM52061 MG   MG  U  61     180.124 109.454  -2.501  1.43 27.02       UION
HETATM52062 MG   MG  U  63     158.928 106.363 -16.410  1.56 27.02       UION
HETATM52063 MG   MG  U  65     118.030 102.344 -26.540  1.56 27.02       UION
HETATM52064 MG   MG  U  68     165.936 127.283 -32.714  0.87 27.02       UION
HETATM52065 MG   MG  U  70     157.431 116.116 -16.615  1.04 27.02       UION
HETATM52066 MG   MG  U  71     160.938 131.658 -23.329  1.29 27.02       UION
HETATM52067 MG   MG  U  73     167.899  90.694 -12.401  1.32 27.02       UION
HETATM52068 MG   MG  U  75     222.830 126.706 -21.397  1.40 27.02       UION
HETATM52069 MG   MG  U  76     217.466 136.734 -12.927  1.31 27.02       UION
HETATM52070 MG   MG  U  78     219.419 125.804 -13.985  0.87 27.02       UION
HETATM52071 MG   MG  U  79     232.783 139.428  -2.972  1.38 27.02       UION
HETATM52072 MG   MG  U  81     166.903 132.156  -7.439  1.12 27.02       UION
HETATM52073 MG   MG  U  82     125.702  96.167  26.472  1.14 27.02       UION
HETATM52074 MG   MG  U  86     130.205 112.125 -37.329  1.07 27.02       UION
HETATM52075 MG   MG  U  87     126.353 118.086 -57.690  0.79 27.02       UION
HETATM52076 MG   MG  U  90     209.594 110.443  10.596  1.52 27.02       UION
HETATM52077 MG   MG  U  91     231.182 108.013  29.873  0.96 27.02       UION
HETATM52078 MG   MG  U  92     233.265 122.030  26.376  1.16 27.02       UION
HETATM52079 MG   MG  U  95     202.505 116.149   9.749  1.58 27.02       UION
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HETATM52080	MG	MG	U	96	203.557	111.608	7.210	1.58	27.02	UION
HETATM52081	MG	MG	U	113	147.726	103.556	-4.277	1.39	27.02	UION
HETATM52082	MG	MG	U	114	114.746	51.979	-12.112	1.12	27.02	UION
HETATM52083	MG	MG	U	118	168.878	105.164	-26.098	1.52	27.02	UION
HETATM52084	MG	MG	U	126	169.240	74.877	-44.644	0.67	27.02	UION
HETATM52085	MG	MG	U	130	204.661	143.496	0.417	1.37	27.02	UION
HETATM52086	MG	MG	U	132	170.966	125.397	-16.714	1.21	27.02	UION
HETATM52087	MG	MG	U	133	197.331	137.046	-14.779	1.15	27.02	UION
HETATM52088	MG	MG	U	134	194.340	144.628	-6.090	1.12	27.02	UION
HETATM52089	MG	MG	U	136	144.366	73.152	-20.524	0.95	27.02	UION
HETATM52090	MG	MG	U	149	186.260	103.518	-42.710	1.26	27.02	UION
HETATM52091	MG	MG	U	150	185.266	96.859	-39.246	1.13	27.02	UION
HETATM52092	MG	MG	U	151	192.355	101.881	-31.804	1.32	27.02	UION
HETATM52093	MG	MG	U	152	195.635	103.022	-26.047	1.54	27.02	UION
HETATM52094	MG	MG	U	153	193.290	104.928	-30.681	1.73	27.02	UION
HETATM52095	MG	MG	U	160	112.526	24.718	-3.147	0.97	27.02	UION
HETATM52096	MG	MG	U	161	92.047	45.286	-14.824	1.29	27.02	UION
HETATM52097	MG	MG	U	162	83.950	59.841	-17.465	1.13	27.02	UION
HETATM52098	MG	MG	U	167	144.643	70.536	-8.042	1.54	27.02	UION
HETATM52099	MG	MG	U	169	135.161	54.595	5.376	1.47	27.02	UION
HETATM52100	MG	MG	U	170	118.922	64.312	20.865	1.12	27.02	UION
HETATM52101	MG	MG	U	174	200.238	97.445	-48.433	1.76	27.02	UION
HETATM52102	MG	MG	U	178	196.833	91.521	-40.709	1.32	27.02	UION
HETATM52103	MG	MG	U	183	202.337	119.598	13.331	0.97	27.02	UION
HETATM52104	MG	MG	U	186	254.476	123.788	-3.915	1.22	27.02	UION
HETATM52105	MG	MG	U	201	148.785	109.007	-17.557	1.81	27.02	UION
HETATM52106	MG	MG	U	210	117.825	97.453	-9.306	0.83	27.02	UION
HETATM52107	MG	MG	U	211	140.032	100.218	-43.998	1.19	27.02	UION
HETATM52108	MG	MG	U	213	138.823	109.622	-18.131	1.02	27.02	UION
HETATM52109	MG	MG	U	214	145.581	91.345	26.692	0.89	27.02	UION
HETATM52110	MG	MG	U	215	136.171	110.813	13.237	1.13	27.02	UION
HETATM52111	MG	MG	U	216	172.669	93.265	17.421	1.19	27.02	UION
HETATM52112	MG	MG	U	217	154.424	102.982	45.634	1.03	27.02	UION
HETATM52113	MG	MG	U	218	176.998	97.598	21.462	1.04	27.02	UION
HETATM52114	MG	MG	U	219	172.653	98.858	15.130	1.04	27.02	UION
HETATM52115	MG	MG	U	220	185.484	96.502	6.345	0.99	27.02	UION
HETATM52116	MG	MG	U	223	130.346	79.122	-19.639	0.87	27.02	UION
HETATM52117	MG	MG	U	224	138.717	81.426	-25.565	0.63	27.02	UION
HETATM52118	MG	MG	U	225	101.411	45.087	-3.785	1.21	27.02	UION
HETATM52119	MG	MG	U	226	125.844	54.154	0.591	1.08	27.02	UION
HETATM52120	MG	MG	U	227	138.279	101.718	-13.709	0.70	27.02	UION
HETATM52121	MG	MG	U	228	109.530	34.084	19.449	0.97	27.02	UION
HETATM52122	MG	MG	U	229	115.473	46.305	6.967	1.09	27.02	UION
HETATM52123	MG	MG	U	300	212.326	108.924	17.251	1.07	27.02	UION
HETATM52124	MG	MG	U	301	161.408	108.255	-9.364	0.92	27.02	UION
HETATM52125	MG	MG	U	302	111.982	62.583	25.319	0.94	27.02	UION
HETATM52126	MG	MG	U	400	189.724	96.672	3.510	1.13	27.02	UION
HETATM52127	MG	MG	U	401	236.050	113.795	-7.303	1.36	27.02	UION
HETATM52128	MG	MG	U	402	161.623	130.731	-41.671	0.89	27.02	UION
HETATM52129	MG	MG	U	403	117.276	111.687	-35.061	0.91	27.02	UION
HETATM52130	MG	MG	U	404	112.364	110.198	-32.210	0.83	27.02	UION
HETATM52131	MG	MG	U	405	114.727	98.973	-20.707	0.91	27.02	UION
HETATM52132	MG	MG	U	406	168.578	91.311	-15.752	0.92	27.02	UION
HETATM52133	MG	MG	U	407	121.674	35.634	-21.809	1.09	27.02	UION
HETATM52134	MG	MG	U	408	199.839	96.397	-15.551	0.53	27.02	UION
HETATM52135	MG	MG	U	409	177.474	106.794	-12.481	1.14	27.02	UION
HETATM52136	MG	MG	U	410	196.418	141.249	-15.897	0.86	27.02	UION
HETATM52137	MG	MG	U	411	143.725	77.371	-23.881	0.94	27.02	UION
HETATM52138	MG	MG	U	412	87.641	54.870	-18.171	0.58	27.02	UION
HETATM52139	MG	MG	U	413	253.122	119.871	-17.388	1.21	27.02	UION
HETATM52140	MG	MG	U	414	123.025	89.833	2.387	1.25	27.02	UION
HETATM52141	MG	MG	U	415	149.287	104.255	-45.915	1.36	27.02	UION
HETATM52142	MG	MG	U	416	125.785	56.535	3.520	1.20	27.02	UION
HETATM52143	MG	MG	U	417	113.177	41.120	14.147	1.39	27.02	UION
HETATM52144	MG	MG	U	418	127.856	60.002	-7.464	1.27	27.02	UION
HETATM52145	MG	MG	U	419	136.491	54.697	-8.379	1.05	27.02	UION
HETATM52146	MG	MG	U	420	97.506	70.775	25.079	0.84	27.02	UION
HETATM52147	MG	MG	U	421	192.011	98.987	23.497	0.82	27.02	UION
HETATM52148	MG	MG	U	422	224.139	124.049	3.018	1.40	27.02	UION
HETATM52149	MG	MG	U	423	211.702	115.701	29.114	0.76	27.02	UION
HETATM52150	MG	MG	U	424	205.902	110.266	34.007	0.56	27.02	UION
HETATM52151	MG	MG	U	425	206.858	110.523	29.241	0.58	27.02	UION
HETATM52152	MG	MG	U	426	208.955	115.712	23.645	0.86	27.02	UION
HETATM52153	MG	MG	U	427	184.834	119.451	-16.725	0.83	27.02	UION
HETATM52154	MG	MG	U	428	188.121	125.223	-17.916	0.78	27.02	UION
HETATM52155	MG	MG	U	429	193.575	122.611	-20.075	1.08	27.02	UION
HETATM52156	MG	MG	U	430	181.376	114.783	-12.904	1.01	27.02	UION

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HETATM52157 MG    MG  U 431     178.740 112.594 -18.570  1.03 27.02      UION
HETATM52158 MG    MG  U 432     176.315 103.939  -1.311  1.02 27.02      UION
HETATM52159 MG    MG  U 433     193.674  89.096  -9.111  0.77 27.02      UION
HETATM52160 MG    MG  U 434     187.725  79.154 -14.547  0.89 27.02      UION
HETATM52161 MG    MG  U 435     178.339  71.692 -17.411  0.90 27.02      UION
HETATM52162 MG    MG  U 436     175.858  70.166 -19.730  1.03 27.02      UION
HETATM52163 MG    MG  U 437     192.901  90.300 -12.239  0.79 27.02      UION
HETATM52164 MG    MG  U 438     172.107 105.107  45.539  0.73 27.02      UION
HETATM52165 MG    MG  U 439     175.663 106.566  45.924  0.66 27.02      UION
HETATM52166 MG    MG  U 440     204.994  94.047 -42.399  1.06 27.02      UION
HETATM52167 ZN    ZN  U 506     155.001 113.208  39.892  1.30 27.02      UION
HETATM52168 ZN    ZN  U 507     215.846 126.689  24.706  0.83 27.02      UION
END
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Table 2. 30S bound to mRNA, tRNA and paromomycin

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CRYST1      400.800  400.800  175.885  90.00  90.00  90.00 P 41 21 2     1
ORIGX1        1.000000    0.000000    0.000000        0.00000
ORIGX2        0.000000    1.000000    0.000000        0.00000
ORIGX3        0.000000    0.000000    1.000000        0.00000
SCALE1        0.002495    0.000000    0.000000        0.00000
SCALE2        0.000000    0.002495    0.000000        0.00000
SCALE3        0.000000    0.000000    0.005686        0.00000
ATOM      1  O5*  U   A   5     132.989 110.609   1.160  1.00 70.98      A16S
ATOM      2  C5*  U   A   5     133.110 109.748   2.316  1.00 70.98      A16S
ATOM      3  C4*  U   A   5     134.390 109.892   3.122  1.00 70.98      A16S
ATOM      4  O4*  U   A   5     134.439 111.206   3.740  1.00 70.98      A16S
ATOM      5  C1*  U   A   5     134.634 111.072   5.137  1.00 70.98      A16S
ATOM      6  N1   U   A   5     133.935 112.159   5.844  1.00106.71      A16S
ATOM      7  C6   U   A   5     133.120 113.048   5.177  1.00106.71      A16S
ATOM      8  C2   U   A   5     134.136 112.273   7.215  1.00106.71      A16S
ATOM      9  O2   U   A   5     134.833 111.506   7.853  1.00106.71      A16S
ATOM     10  N3   U   A   5     133.486 113.321   7.812  1.00106.71      A16S
ATOM     11  C4   U   A   5     132.671 114.251   7.202  1.00106.71      A16S
ATOM     12  O4   U   A   5     132.184 115.163   7.875  1.00106.71      A16S
ATOM     13  C5   U   A   5     132.500 114.061   5.791  1.00106.71      A16S
ATOM     14  C2*  U   A   5     134.157 109.671   5.497  1.00 70.98      A16S
ATOM     15  O2*  U   A   5     134.793 109.239   6.684  1.00 70.98      A16S
ATOM     16  C3*  U   A   5     134.580 108.887   4.259  1.00 70.98      A16S
ATOM     17  O3*  U   A   5     135.971 108.612   4.372  1.00 70.98      A16S
ATOM     18  P    G   A   6     136.484 107.130   4.759  1.00 68.91      A16S
ATOM     19  O1P  G   A   6     135.532 106.163   4.094  1.00 50.34      A16S
ATOM     20  O2P  G   A   6     136.757 107.012   6.233  1.00 50.34      A16S
ATOM     21  O5*  G   A   6     137.916 107.089   4.057  1.00 68.91      A16S
ATOM     22  C5*  G   A   6     138.040 106.747   2.669  1.00 68.91      A16S
ATOM     23  C4*  G   A   6     138.892 107.755   1.934  1.00 68.91      A16S
ATOM     24  O4*  G   A   6     138.106 108.828   1.381  1.00 68.91      A16S
ATOM     25  C1*  G   A   6     138.969 109.910   1.107  1.00 68.91      A16S
ATOM     26  N9   G   A   6     138.300 111.169   1.439  1.00 50.34      A16S
ATOM     27  C4   G   A   6     138.187 111.774   2.675  1.00 50.34      A16S
ATOM     28  N3   G   A   6     138.690 111.315   3.832  1.00 50.34      A16S
ATOM     29  C2   G   A   6     138.443 112.129   4.832  1.00 50.34      A16S
ATOM     30  N2   G   A   6     138.887 111.828   6.056  1.00 50.34      A16S
ATOM     31  N1   G   A   6     137.751 113.295   4.712  1.00 50.34      A16S
ATOM     32  C6   G   A   6     137.218 113.786   3.533  1.00 50.34      A16S
ATOM     33  O6   G   A   6     136.601 114.857   3.531  1.00 50.34      A16S
ATOM     34  C5   G   A   6     137.482 112.930   2.450  1.00 50.34      A16S
ATOM     35  N7   G   A   6     137.153 113.058   1.109  1.00 50.34      A16S
ATOM     36  C8   G   A   6     137.655 111.994   0.549  1.00 50.34      A16S
ATOM     37  C2*  G   A   6     140.325 109.629   1.769  1.00 68.91      A16S
ATOM     38  O2*  G   A   6     141.242 109.232   0.775  1.00 68.91      A16S
ATOM     39  C3*  G   A   6     140.007 108.453   2.685  1.00 68.91      A16S
ATOM     40  O3*  G   A   6     141.120 107.579   2.795  1.00 68.91      A16S
ATOM     41  P    G   A   7     142.504 108.105   3.421  1.00 48.14      A16S
ATOM     42  O1P  G   A   7     142.282 109.412   4.087  1.00 42.12      A16S
ATOM     43  O2P  G   A   7     143.141 106.983   4.188  1.00 42.12      A16S
ATOM     44  O5*  G   A   7     143.378 108.389   2.131  1.00 48.14      A16S
ATOM     45  C5*  G   A   7     144.413 107.485   1.742  1.00 48.14      A16S
ATOM     46  C4*  G   A   7     145.339 108.178   0.807  1.00 48.14      A16S
ATOM     47  O4*  G   A   7     144.645 108.457  -0.410  1.00 48.14      A16S
ATOM     48  C1*  G   A   7     145.262 109.555  -1.016  1.00 48.14      A16S
ATOM     49  N9   G   A   7     144.306 110.115  -1.956  1.00 42.12      A16S
ATOM     50  C4   G   A   7     144.526 110.405  -3.277  1.00 42.12      A16S
ATOM     51  N3   G   A   7     145.682 110.233  -3.945  1.00 42.12      A16S
ATOM     52  C2   G   A   7     145.575 110.606  -5.203  1.00 42.12      A16S
ATOM     53  N2   G   A   7     146.623 110.493  -6.030  1.00 42.12      A16S
ATOM     54  N1   G   A   7     144.431 111.114  -5.749  1.00 42.12      A16S
ATOM     55  C6   G   A   7     143.236 111.295  -5.072  1.00 42.12      A16S
ATOM     56  O6   G   A   7     142.259 111.764  -5.657  1.00 42.12      A16S
ATOM     57  C5   G   A   7     143.334 110.892  -3.743  1.00 42.12      A16S
ATOM     58  N7   G   A   7     142.381 110.903  -2.741  1.00 42.12      A16S
ATOM     59  C8   G   A   7     143.004 110.438  -1.699  1.00 42.12      A16S
ATOM     60  C2*  G   A   7     145.659 110.491   0.126  1.00 48.14      A16S
ATOM     61  O2*  G   A   7     146.849 111.166  -0.175  1.00 48.14      A16S
ATOM     62  C3*  G   A   7     145.745 109.540   1.324  1.00 48.14      A16S
ATOM     63  O3*  G   A   7     146.910 109.479   2.155  1.00 48.14      A16S
ATOM     64  P    A   A   8     148.315 108.921   1.590  1.00 31.71      A16S
ATOM     65  O1P  A   A   8     148.314 108.980   0.103  1.00 54.12      A16S
ATOM     66  O2P  A   A   8     148.629 107.628   2.263  1.00 54.12      A16S
ATOM     67  O5*  A   A   8     149.343 109.986   2.173  1.00 31.71      A16S
ATOM     68  C5*  A   A   8     149.525 111.268   1.556  1.00 31.71      A16S
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ATOM     69  C4* A   A   8     150.938 111.726   1.783  1.00 31.71      A16S
ATOM     70  O4* A   A   8     151.096 112.108   3.172  1.00 31.71      A16S
ATOM     71  C1* A   A   8     152.099 111.318   3.760  1.00 31.71      A16S
ATOM     72  N9  A   A   8     151.739 111.054   5.148  1.00 54.12      A16S
ATOM     73  C4  A   A   8     152.632 111.011   6.183  1.00 54.12      A16S
ATOM     74  N3  A   A   8     153.959 111.186   6.113  1.00 54.12      A16S
ATOM     75  C2  A   A   8     154.505 111.071   7.314  1.00 54.12      A16S
ATOM     76  N1  A   A   8     153.921 110.820   8.486  1.00 54.12      A16S
ATOM     77  C6  A   A   8     152.586 110.654   8.513  1.00 54.12      A16S
ATOM     78  N6  A   A   8     152.004 110.403   9.677  1.00 54.12      A16S
ATOM     79  C5  A   A   8     151.891 110.752   7.310  1.00 54.12      A16S
ATOM     80  N7  A   A   8     150.549 110.632   6.998  1.00 54.12      A16S
ATOM     81  C8  A   A   8     150.511 110.815   5.702  1.00 54.12      A16S
ATOM     82  C2* A   A   8     152.221 110.065   2.904  1.00 31.71      A16S
ATOM     83  O2* A   A   8     153.496 109.488   3.029  1.00 31.71      A16S
ATOM     84  C3* A   A   8     151.962 110.628   1.518  1.00 31.71      A16S
ATOM     85  O3* A   A   8     153.157 111.195   1.006  1.00 31.71      A16S
ATOM     86  P   G   A   9     153.375 111.270  -0.577  1.00 32.54      A16S
ATOM     87  O1P G   A   9     152.892 112.585  -1.079  1.00 36.58      A16S
ATOM     88  O2P G   A   9     152.788 110.027  -1.121  1.00 36.58      A16S
ATOM     89  O5* G   A   9     154.953 111.180  -0.740  1.00 32.54      A16S
ATOM     90  C5* G   A   9     155.810 112.061  -0.039  1.00 32.54      A16S
ATOM     91  C4* G   A   9     156.428 111.358   1.144  1.00 32.54      A16S
ATOM     92  O4* G   A   9     155.722 110.131   1.445  1.00 32.54      A16S
ATOM     93  C1* G   A   9     156.625 109.199   2.039  1.00 32.54      A16S
ATOM     94  N9  G   A   9     156.674 107.983   1.230  1.00 36.58      A16S
ATOM     95  C4  G   A   9     157.420 106.867   1.502  1.00 36.58      A16S
ATOM     96  N3  G   A   9     158.205 106.692   2.573  1.00 36.58      A16S
ATOM     97  C2  G   A   9     158.830 105.538   2.537  1.00 36.58      A16S
ATOM     98  N2  G   A   9     159.663 105.201   3.521  1.00 36.58      A16S
ATOM     99  N1  G   A   9     158.688 104.628   1.533  1.00 36.58      A16S
ATOM    100  C6  G   A   9     157.875 104.785   0.427  1.00 36.58      A16S
ATOM    101  O6  G   A   9     157.816 103.897  -0.417  1.00 36.58      A16S
ATOM    102  C5  G   A   9     157.203 106.016   0.451  1.00 36.58      A16S
ATOM    103  N7  G   A   9     156.310 106.567  -0.453  1.00 36.58      A16S
ATOM    104  C8  G   A   9     156.019 107.732   0.050  1.00 36.58      A16S
ATOM    105  C2* G   A   9     157.996 109.657   2.090  1.00 32.54      A16S
ATOM    106  O2* G   A   9     158.164 110.454   3.350  1.00 32.54      A16S
ATOM    107  C3* G   A   9     157.864 110.901   1.000  1.00 32.54      A16S
ATOM    108  O3* G   A   9     158.750 111.953   1.237  1.00 32.54      A16S
ATOM    109  P   A   A  10     160.149 111.964   0.485  1.00 32.69      A16S
ATOM    110  O1P A   A  10     160.674 113.334   0.697  1.00 33.94      A16S
ATOM    111  O2P A   A  10     159.926 111.466  -0.899  1.00 33.94      A16S
ATOM    112  O5* A   A  10     161.009 110.901   1.310  1.00 32.69      A16S
ATOM    113  C5* A   A  10     161.322 111.151   2.695  1.00 32.69      A16S
ATOM    114  C4* A   A  10     162.090 110.001   3.312  1.00 32.69      A16S
ATOM    115  O4* A   A  10     161.261 108.817   3.340  1.00 32.69      A16S
ATOM    116  C1* A   A  10     162.055 107.671   3.111  1.00 32.69      A16S
ATOM    117  N9  A   A  10     161.677 107.133   1.802  1.00 33.94      A16S
ATOM    118  C4  A   A  10     162.001 105.898   1.288  1.00 33.94      A16S
ATOM    119  N3  A   A  10     162.715 104.924   1.884  1.00 33.94      A16S
ATOM    120  C2  A   A  10     162.850 103.883   1.071  1.00 33.94      A16S
ATOM    121  N1  A   A  10     162.386 103.713  -0.173  1.00 33.94      A16S
ATOM    122  C6  A   A  10     161.664 104.705  -0.739  1.00 33.94      A16S
ATOM    123  N6  A   A  10     161.191 104.530  -1.971  1.00 33.94      A16S
ATOM    124  C5  A   A  10     161.454 105.867   0.014  1.00 33.94      A16S
ATOM    125  N7  A   A  10     160.786 107.052  -0.267  1.00 33.94      A16S
ATOM    126  C8  A   A  10     160.945 107.765   0.819  1.00 33.94      A16S
ATOM    127  C2* A   A  10     163.511 108.134   3.108  1.00 32.69      A16S
ATOM    128  O2* A   A  10     164.038 108.097   4.422  1.00 32.69      A16S
ATOM    129  C3* A   A  10     163.369 109.564   2.626  1.00 32.69      A16S
ATOM    130  O3* A   A  10     164.487 110.341   3.014  1.00 32.69      A16S
ATOM    131  P   G   A  11     165.722 110.509   1.994  1.00 35.64      A16S
ATOM    132  O1P G   A  11     166.688 111.484   2.586  1.00 38.72      A16S
ATOM    133  O2P G   A  11     165.164 110.761   0.633  1.00 38.72      A16S
ATOM    134  O5* G   A  11     166.419 109.084   2.033  1.00 35.64      A16S
ATOM    135  C5* G   A  11     167.101 108.669   3.215  1.00 35.64      A16S
ATOM    136  C4* G   A  11     167.788 107.363   2.984  1.00 35.64      A16S
ATOM    137  O4* G   A  11     166.780 106.360   2.751  1.00 35.64      A16S
ATOM    138  C1* G   A  11     167.247 105.423   1.804  1.00 35.64      A16S
ATOM    139  N9  G   A  11     166.352 105.448   0.652  1.00 38.72      A16S
ATOM    140  C4  G   A  11     166.232 104.474  -0.298  1.00 38.72      A16S
ATOM    141  N3  G   A  11     166.889 103.302  -0.308  1.00 38.72      A16S
ATOM    142  C2  G   A  11     166.568 102.570  -1.347  1.00 38.72      A16S
ATOM    143  N2  G   A  11     167.098 101.361  -1.480  1.00 38.72      A16S
ATOM    144  N1  G   A  11     165.694 102.964  -2.329  1.00 38.72      A16S
ATOM    145  C6  G   A  11     165.016 104.178  -2.354  1.00 38.72      A16S
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ATOM    146  O6  G   A  11     164.271 104.461  -3.314  1.00 38.72      A16S
ATOM    147  C5  G   A  11     165.326 104.961  -1.211  1.00 38.72      A16S
ATOM    148  N7  G   A  11     164.861 106.208  -0.824  1.00 38.72      A16S
ATOM    149  C8  G   A  11     165.493 106.454   0.288  1.00 38.72      A16S
ATOM    150  C2* G   A  11     168.681 105.811   1.451  1.00 35.64      A16S
ATOM    151  O2* G   A  11     169.529 105.067   2.297  1.00 35.64      A16S
ATOM    152  C3* G   A  11     168.681 107.298   1.765  1.00 35.64      A16S
ATOM    153  O3* G   A  11     169.969 107.822   2.044  1.00 35.64      A16S
ATOM    154  P   U   A  12     170.770 108.610   0.891  1.00 36.28      A16S
ATOM    155  O1P U   A  12     172.027 109.112   1.476  1.00 45.67      A16S
ATOM    156  O2P U   A  12     169.873 109.559   0.182  1.00 45.67      A16S
ATOM    157  O5* U   A  12     171.142 107.436  -0.114  1.00 36.28      A16S
ATOM    158  C5* U   A  12     171.905 106.295   0.329  1.00 36.28      A16S
ATOM    159  C4* U   A  12     172.093 105.334  -0.811  1.00 36.28      A16S
ATOM    160  O4* U   A  12     170.876 104.584  -1.027  1.00 36.28      A16S
ATOM    161  C1* U   A  12     170.688 104.370  -2.415  1.00 36.28      A16S
ATOM    162  N1  U   A  12     169.397 104.946  -2.828  1.00 45.67      A16S
ATOM    163  C6  U   A  12     168.958 106.140  -2.338  1.00 45.67      A16S
ATOM    164  C2  U   A  12     168.652 104.253  -3.762  1.00 45.67      A16S
ATOM    165  O2  U   A  12     168.966 103.158  -4.185  1.00 45.67      A16S
ATOM    166  N3  U   A  12     167.515 104.885  -4.181  1.00 45.67      A16S
ATOM    167  C4  U   A  12     167.041 106.098  -3.761  1.00 45.67      A16S
ATOM    168  O4  U   A  12     166.040 106.582  -4.303  1.00 45.67      A16S
ATOM    169  C5  U   A  12     167.836 106.723  -2.758  1.00 45.67      A16S
ATOM    170  C2* U   A  12     171.866 105.009  -3.157  1.00 36.28      A16S
ATOM    171  O2* U   A  12     172.844 104.043  -3.492  1.00 36.28      A16S
ATOM    172  C3* U   A  12     172.368 106.017  -2.137  1.00 36.28      A16S
ATOM    173  O3* U   A  12     173.744 106.314  -2.311  1.00 36.28      A16S
ATOM    174  P   U   A  13     174.176 107.439  -3.362  1.00 36.10      A16S
ATOM    175  O1P U   A  13     175.344 108.193  -2.838  1.00 37.86      A16S
ATOM    176  O2P U   A  13     172.957 108.169  -3.746  1.00 37.86      A16S
ATOM    177  O5* U   A  13     174.662 106.609  -4.622  1.00 36.10      A16S
ATOM    178  C5* U   A  13     173.807 106.422  -5.747  1.00 36.10      A16S
ATOM    179  C4* U   A  13     174.622 106.047  -6.949  1.00 36.10      A16S
ATOM    180  O4* U   A  13     173.741 105.512  -7.964  1.00 36.10      A16S
ATOM    181  C1* U   A  13     173.960 106.196  -9.163  1.00 36.10      A16S
ATOM    182  N1  U   A  13     172.715 106.230  -9.944  1.00 37.86      A16S
ATOM    183  C6  U   A  13     171.893 107.318  -9.931  1.00 37.86      A16S
ATOM    184  C2  U   A  13     172.415 105.123 -10.728  1.00 37.86      A16S
ATOM    185  O2  U   A  13     173.096 104.118 -10.743  1.00 37.86      A16S
ATOM    186  N3  U   A  13     171.286 105.240 -11.493  1.00 37.86      A16S
ATOM    187  C4  U   A  13     170.440 106.320 -11.549  1.00 37.86      A16S
ATOM    188  O4  U   A  13     169.536 106.338 -12.380  1.00 37.86      A16S
ATOM    189  C5  U   A  13     170.797 107.399 -10.684  1.00 37.86      A16S
ATOM    190  C2* U   A  13     174.545 107.548  -8.780  1.00 36.10      A16S
ATOM    191  O2* U   A  13     175.288 108.005  -9.878  1.00 36.10      A16S
ATOM    192  C3* U   A  13     175.415 107.179  -7.588  1.00 36.10      A16S
ATOM    193  O3* U   A  13     176.661 106.658  -8.067  1.00 36.10      A16S
ATOM    194  P   U   A  14     178.065 107.137  -7.410  1.00 34.32      A16S
ATOM    195  O1P U   A  14     179.144 106.428  -8.142  1.00 43.33      A16S
ATOM    196  O2P U   A  14     178.001 107.018  -5.915  1.00 43.33      A16S
ATOM    197  O5* U   A  14     178.173 108.678  -7.799  1.00 34.32      A16S
ATOM    198  C5* U   A  14     178.514 109.049  -9.114  1.00 34.32      A16S
ATOM    199  C4* U   A  14     178.574 110.533  -9.233  1.00 34.32      A16S
ATOM    200  O4* U   A  14     177.254 111.066  -9.013  1.00 34.32      A16S
ATOM    201  C1* U   A  14     177.351 112.341  -8.397  1.00 34.32      A16S
ATOM    202  N1  U   A  14     176.656 112.293  -7.096  1.00 43.33      A16S
ATOM    203  C6  U   A  14     176.535 111.120  -6.400  1.00 43.33      A16S
ATOM    204  C2  U   A  14     176.128 113.466  -6.598  1.00 43.33      A16S
ATOM    205  O2  U   A  14     176.206 114.527  -7.177  1.00 43.33      A16S
ATOM    206  N3  U   A  14     175.498 113.350  -5.397  1.00 43.33      A16S
ATOM    207  C4  U   A  14     175.335 112.210  -4.660  1.00 43.33      A16S
ATOM    208  O4  U   A  14     174.676 112.252  -3.623  1.00 43.33      A16S
ATOM    209  C5  U   A  14     175.910 111.041  -5.233  1.00 43.33      A16S
ATOM    210  C2* U   A  14     178.840 112.671  -8.263  1.00 34.32      A16S
ATOM    211  O2* U   A  14     179.238 113.433  -9.392  1.00 34.32      A16S
ATOM    212  C3* U   A  14     179.457 111.275  -8.243  1.00 34.32      A16S
ATOM    213  O3* U   A  14     180.832 111.294  -8.624  1.00 34.32      A16S
ATOM    214  P   G   A  15     181.970 111.091  -7.507  1.00 42.24      A16S
ATOM    215  O1P G   A  15     183.267 111.222  -8.190  1.00 34.38      A16S
ATOM    216  O2P G   A  15     181.678 109.870  -6.699  1.00 34.38      A16S
ATOM    217  O5* G   A  15     181.836 112.392  -6.609  1.00 42.24      A16S
ATOM    218  C5* G   A  15     182.628 112.574  -5.434  1.00 42.24      A16S
ATOM    219  C4* G   A  15     182.664 114.033  -5.081  1.00 42.24      A16S
ATOM    220  O4* G   A  15     183.444 114.735  -6.075  1.00 42.24      A16S
ATOM    221  C1* G   A  15     182.878 116.005  -6.330  1.00 42.24      A16S
ATOM    222  N9  G   A  15     182.520 116.052  -7.741  1.00 34.38      A16S
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ATOM    223  C4  G   A  15     181.940 117.100  -8.422  1.00 34.38      A16S
ATOM    224  N3  G   A  15     181.579 118.291  -7.899  1.00 34.38      A16S
ATOM    225  C2  G   A  15     181.013 119.075  -8.809  1.00 34.38      A16S
ATOM    226  N2  G   A  15     180.567 120.295  -8.467  1.00 34.38      A16S
ATOM    227  N1  G   A  15     180.836 118.717 -10.119  1.00 34.38      A16S
ATOM    228  C6  G   A  15     181.204 117.501 -10.670  1.00 34.38      A16S
ATOM    229  O6  G   A  15     181.001 117.284 -11.855  1.00 34.38      A16S
ATOM    230  C5  G   A  15     181.789 116.653  -9.718  1.00 34.38      A16S
ATOM    231  N7  G   A  15     182.261 115.358  -9.851  1.00 34.38      A16S
ATOM    232  C8  G   A  15     182.688 115.045  -8.657  1.00 34.38      A16S
ATOM    233  C2* G   A  15     181.681 116.165  -5.398  1.00 42.24      A16S
ATOM    234  O2* G   A  15     182.120 116.842  -4.243  1.00 42.24      A16S
ATOM    235  C3* G   A  15     181.311 114.714  -5.117  1.00 42.24      A16S
ATOM    236  O3* G   A  15     180.589 114.505  -3.901  1.00 42.24      A16S
ATOM    237  P   A   A  16     179.059 113.966  -3.954  1.00 32.12      A16S
ATOM    238  O1P A   A  16     178.676 113.724  -2.530  1.00 28.81      A16S
ATOM    239  O2P A   A  16     178.925 112.851  -4.941  1.00 28.81      A16S
ATOM    240  O5* A   A  16     178.253 115.233  -4.477  1.00 32.12      A16S
ATOM    241  C5* A   A  16     178.130 116.362  -3.626  1.00 32.12      A16S
ATOM    242  C4* A   A  16     177.758 117.579  -4.406  1.00 32.12      A16S
ATOM    243  O4* A   A  16     178.707 117.774  -5.482  1.00 32.12      A16S
ATOM    244  C1* A   A  16     178.062 118.410  -6.568  1.00 32.12      A16S
ATOM    245  N9  A   A  16     178.169 117.565  -7.754  1.00 28.81      A16S
ATOM    246  C4  A   A  16     177.812 117.965  -9.013  1.00 28.81      A16S
ATOM    247  N3  A   A  16     177.333 119.164  -9.374  1.00 28.81      A16S
ATOM    248  C2  A   A  16     177.095 119.198 -10.675  1.00 28.81      A16S
ATOM    249  N1  A   A  16     177.268 118.241 -11.584  1.00 28.81      A16S
ATOM    250  C6  A   A  16     177.738 117.046 -11.182  1.00 28.81      A16S
ATOM    251  N6  A   A  16     177.888 116.086 -12.087  1.00 28.81      A16S
ATOM    252  C5  A   A  16     178.032 116.885  -9.829  1.00 28.81      A16S
ATOM    253  N7  A   A  16     178.516 115.812  -9.102  1.00 28.81      A16S
ATOM    254  C8  A   A  16     178.587 116.271  -7.876  1.00 28.81      A16S
ATOM    255  C2* A   A  16     176.594 118.590  -6.187  1.00 32.12      A16S
ATOM    256  O2* A   A  16     176.400 119.916  -5.749  1.00 32.12      A16S
ATOM    257  C3* A   A  16     176.427 117.527  -5.110  1.00 32.12      A16S
ATOM    258  O3* A   A  16     175.356 117.764  -4.232  1.00 32.12      A16S
ATOM    259  P   U   A  17     173.947 117.027  -4.487  1.00 30.09      A16S
ATOM    260  O1P U   A  17     173.081 117.467  -3.362  1.00 33.82      A16S
ATOM    261  O2P U   A  17     174.126 115.563  -4.730  1.00 33.82      A16S
ATOM    262  O5* U   A  17     173.418 117.687  -5.841  1.00 30.09      A16S
ATOM    263  C5* U   A  17     173.280 119.103  -5.939  1.00 30.09      A16S
ATOM    264  C4* U   A  17     172.690 119.500  -7.269  1.00 30.09      A16S
ATOM    265  O4* U   A  17     173.666 119.406  -8.334  1.00 30.09      A16S
ATOM    266  C1* U   A  17     173.004 119.156  -9.560  1.00 30.09      A16S
ATOM    267  N1  U   A  17     173.513 117.896 -10.129  1.00 33.82      A16S
ATOM    268  C6  U   A  17     174.237 116.999  -9.378  1.00 33.82      A16S
ATOM    269  C2  U   A  17     173.236 117.638 -11.463  1.00 33.82      A16S
ATOM    270  O2  U   A  17     172.567 118.381 -12.154  1.00 33.82      A16S
ATOM    271  N3  U   A  17     173.756 116.466 -11.952  1.00 33.82      A16S
ATOM    272  C4  U   A  17     174.483 115.536 -11.261  1.00 33.82      A16S
ATOM    273  O4  U   A  17     174.848 114.517 -11.833  1.00 33.82      A16S
ATOM    274  C5  U   A  17     174.713 115.857  -9.884  1.00 33.82      A16S
ATOM    275  C2* U   A  17     171.507 119.094  -9.266  1.00 30.09      A16S
ATOM    276  O2* U   A  17     170.945 120.367  -9.512  1.00 30.09      A16S
ATOM    277  C3* U   A  17     171.495 118.730  -7.788  1.00 30.09      A16S
ATOM    278  O3* U   A  17     170.299 119.152  -7.171  1.00 30.09      A16S
ATOM    279  P   C   A  18     169.105 118.103  -6.980  1.00 38.95      A16S
ATOM    280  O1P C   A  18     168.147 118.756  -6.077  1.00 35.08      A16S
ATOM    281  O2P C   A  18     169.649 116.762  -6.623  1.00 35.08      A16S
ATOM    282  O5* C   A  18     168.446 118.046  -8.427  1.00 38.95      A16S
ATOM    283  C5* C   A  18     167.784 119.199  -8.983  1.00 38.95      A16S
ATOM    284  C4* C   A  18     167.428 118.949 -10.430  1.00 38.95      A16S
ATOM    285  O4* C   A  18     168.641 118.884 -11.228  1.00 38.95      A16S
ATOM    286  C1* C   A  18     168.510 117.892 -12.231  1.00 38.95      A16S
ATOM    287  N1  C   A  18     169.453 116.792 -11.937  1.00 35.08      A16S
ATOM    288  C6  C   A  18     169.813 116.508 -10.652  1.00 35.08      A16S
ATOM    289  C2  C   A  18     169.943 116.008 -12.996  1.00 35.08      A16S
ATOM    290  O2  C   A  18     169.653 116.317 -14.159  1.00 35.08      A16S
ATOM    291  N3  C   A  18     170.723 114.939 -12.721  1.00 35.08      A16S
ATOM    292  C4  C   A  18     171.031 114.651 -11.455  1.00 35.08      A16S
ATOM    293  N4  C   A  18     171.768 113.563 -11.214  1.00 35.08      A16S
ATOM    294  C5  C   A  18     170.589 115.460 -10.370  1.00 35.08      A16S
ATOM    295  C2* C   A  18     167.077 117.369 -12.156  1.00 38.95      A16S
ATOM    296  O2* C   A  18     166.256 118.076 -13.064  1.00 38.95      A16S
ATOM    297  C3* C   A  18     166.739 117.628 -10.697  1.00 38.95      A16S
ATOM    298  O3* C   A  18     165.353 117.659 -10.430  1.00 38.95      A16S
ATOM    299  P   C   A  19     164.596 116.294 -10.038  1.00 30.08      A16S
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ATOM    300  O1P C   A  19     163.174 116.694  -9.844  1.00 31.32      A16S
ATOM    301  O2P C   A  19     165.304 115.559  -8.962  1.00 31.32      A16S
ATOM    302  O5* C   A  19     164.693 115.437 -11.369  1.00 30.08      A16S
ATOM    303  C5* C   A  19     164.143 115.971 -12.571  1.00 30.08      A16S
ATOM    304  C4* C   A  19     164.396 115.057 -13.729  1.00 30.08      A16S
ATOM    305  O4* C   A  19     165.803 115.065 -14.067  1.00 30.08      A16S
ATOM    306  C1* C   A  19     166.170 113.793 -14.572  1.00 30.08      A16S
ATOM    307  N1  C   A  19     167.170 113.179 -13.671  1.00 31.32      A16S
ATOM    308  C6  C   A  19     167.292 113.571 -12.371  1.00 31.32      A16S
ATOM    309  C2  C   A  19     167.956 112.146 -14.159  1.00 31.32      A16S
ATOM    310  O2  C   A  19     167.912 111.885 -15.364  1.00 31.32      A16S
ATOM    311  N3  C   A  19     168.757 111.466 -13.316  1.00 31.32      A16S
ATOM    312  C4  C   A  19     168.826 111.815 -12.041  1.00 31.32      A16S
ATOM    313  N4  C   A  19     169.590 111.089 -11.238  1.00 31.32      A16S
ATOM    314  C5  C   A  19     168.103 112.920 -11.530  1.00 31.32      A16S
ATOM    315  C2* C   A  19     164.896 112.946 -14.620  1.00 30.08      A16S
ATOM    316  O2* C   A  19     164.311 113.111 -15.894  1.00 30.08      A16S
ATOM    317  C3* C   A  19     164.050 113.597 -13.535  1.00 30.08      A16S
ATOM    318  O3* C   A  19     162.665 113.382 -13.719  1.00 30.08      A16S
ATOM    319  P   U   A  20     162.005 111.981 -13.287  1.00 35.04      A16S
ATOM    320  O1P U   A  20     160.576 112.047 -13.693  1.00 32.94      A16S
ATOM    321  O2P U   A  20     162.357 111.652 -11.891  1.00 32.94      A16S
ATOM    322  O5* U   A  20     162.727 110.905 -14.208  1.00 35.04      A16S
ATOM    323  C5* U   A  20     162.414 110.791 -15.601  1.00 35.04      A16S
ATOM    324  C4* U   A  20     163.232 109.684 -16.221  1.00 35.04      A16S
ATOM    325  O4* U   A  20     164.637 109.958 -15.996  1.00 35.04      A16S
ATOM    326  C1* U   A  20     165.333 108.742 -15.783  1.00 35.04      A16S
ATOM    327  N1  U   A  20     165.899 108.770 -14.431  1.00 32.94      A16S
ATOM    328  C6  U   A  20     165.544 109.739 -13.527  1.00 32.94      A16S
ATOM    329  C2  U   A  20     166.809 107.796 -14.104  1.00 32.94      A16S
ATOM    330  O2  U   A  20     167.140 106.916 -14.879  1.00 32.94      A16S
ATOM    331  N3  U   A  20     167.322 107.888 -12.837  1.00 32.94      A16S
ATOM    332  C4  U   A  20     167.018 108.839 -11.886  1.00 32.94      A16S
ATOM    333  O4  U   A  20     167.568 108.796 -10.783  1.00 32.94      A16S
ATOM    334  C5  U   A  20     166.061 109.807 -12.304  1.00 32.94      A16S
ATOM    335  C2* U   A  20     164.344 107.597 -15.957  1.00 35.04      A16S
ATOM    336  O2* U   A  20     164.418 107.159 -17.294  1.00 35.04      A16S
ATOM    337  C3* U   A  20     163.025 108.288 -15.648  1.00 35.04      A16S
ATOM    338  O3* U   A  20     161.941 107.615 -16.271  1.00 35.04      A16S
ATOM    339  P   G   A  21     160.959 106.732 -15.375  1.00 27.54      A16S
ATOM    340  O1P G   A  21     159.957 106.092 -16.266  1.00 45.36      A16S
ATOM    341  O2P G   A  21     160.513 107.572 -14.242  1.00 45.36      A16S
ATOM    342  O5* G   A  21     161.915 105.617 -14.780  1.00 27.54      A16S
ATOM    343  C5* G   A  21     162.575 104.721 -15.649  1.00 27.54      A16S
ATOM    344  C4* G   A  21     163.592 103.920 -14.896  1.00 27.54      A16S
ATOM    345  O4* G   A  21     164.673 104.782 -14.459  1.00 27.54      A16S
ATOM    346  C1* G   A  21     165.276 104.230 -13.304  1.00 27.54      A16S
ATOM    347  N9  G   A  21     165.247 105.223 -12.241  1.00 45.36      A16S
ATOM    348  C4  G   A  21     166.083 105.277 -11.158  1.00 45.36      A16S
ATOM    349  N3  G   A  21     167.122 104.460 -10.920  1.00 45.36      A16S
ATOM    350  C2  G   A  21     167.733 104.759  -9.794  1.00 45.36      A16S
ATOM    351  N2  G   A  21     168.817 104.076  -9.414  1.00 45.36      A16S
ATOM    352  N1  G   A  21     167.336 105.756  -8.955  1.00 45.36      A16S
ATOM    353  C6  G   A  21     166.256 106.597  -9.174  1.00 45.36      A16S
ATOM    354  O6  G   A  21     165.961 107.456  -8.330  1.00 45.36      A16S
ATOM    355  C5  G   A  21     165.619 106.312 -10.393  1.00 45.36      A16S
ATOM    356  N7  G   A  21     164.539 106.926 -11.001  1.00 45.36      A16S
ATOM    357  C8  G   A  21     164.359 106.250 -12.099  1.00 45.36      A16S
ATOM    358  C2* G   A  21     164.476 102.981 -12.918  1.00 27.54      A16S
ATOM    359  O2* G   A  21     165.198 101.847 -13.367  1.00 27.54      A16S
ATOM    360  C3* G   A  21     163.144 103.220 -13.632  1.00 27.54      A16S
ATOM    361  O3* G   A  21     162.444 102.021 -13.915  1.00 27.54      A16S
ATOM    362  P   G   A  22     161.393 101.443 -12.838  1.00 28.99      A16S
ATOM    363  O1P G   A  22     160.368 100.644 -13.552  1.00 50.99      A16S
ATOM    364  O2P G   A  22     160.970 102.567 -11.970  1.00 50.99      A16S
ATOM    365  O5* G   A  22     162.249 100.458 -11.922  1.00 28.99      A16S
ATOM    366  C5* G   A  22     162.764  99.242 -12.465  1.00 28.99      A16S
ATOM    367  C4* G   A  22     163.978  98.781 -11.701  1.00 28.99      A16S
ATOM    368  O4* G   A  22     164.959  99.846 -11.646  1.00 28.99      A16S
ATOM    369  C1* G   A  22     165.740  99.707 -10.475  1.00 28.99      A16S
ATOM    370  N9  G   A  22     165.629 100.930  -9.681  1.00 50.99      A16S
ATOM    371  C4  G   A  22     166.484 101.333  -8.681  1.00 50.99      A16S
ATOM    372  N3  G   A  22     167.609 100.707  -8.302  1.00 50.99      A16S
ATOM    373  C2  G   A  22     168.190 101.317  -7.298  1.00 50.99      A16S
ATOM    374  N2  G   A  22     169.343 100.852  -6.805  1.00 50.99      A16S
ATOM    375  N1  G   A  22     167.697 102.433  -6.699  1.00 50.99      A16S
ATOM    376  C6  G   A  22     166.536 103.084  -7.066  1.00 50.99      A16S
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ATOM    377  O6  G   A  22     166.160 104.065  -6.433  1.00 50.99      A16S
ATOM    378  C5  G   A  22     165.922 102.468  -8.157  1.00 50.99      A16S
ATOM    379  N7  G   A  22     164.767 102.808  -8.840  1.00 50.99      A16S
ATOM    380  C8  G   A  22     164.636 101.874  -9.741  1.00 50.99      A16S
ATOM    381  C2* G   A  22     165.205  98.494  -9.706  1.00 28.99      A16S
ATOM    382  O2* G   A  22     166.006  97.366  -9.990  1.00 28.99      A16S
ATOM    383  C3* G   A  22     163.785  98.377 -10.252  1.00 28.99      A16S
ATOM    384  O3* G   A  22     163.260  97.058 -10.137  1.00 28.99      A16S
ATOM    385  P   C   A  23     162.522  96.600  -8.778  1.00 27.32      A16S
ATOM    386  O1P C   A  23     162.206  95.157  -8.942  1.00 36.20      A16S
ATOM    387  O2P C   A  23     161.432  97.549  -8.437  1.00 36.20      A16S
ATOM    388  O5* C   A  23     163.670  96.670  -7.683  1.00 27.32      A16S
ATOM    389  C5* C   A  23     164.753  95.740  -7.751  1.00 27.32      A16S
ATOM    390  C4* C   A  23     165.709  95.956  -6.617  1.00 27.32      A16S
ATOM    391  O4* C   A  23     166.407  97.216  -6.787  1.00 27.32      A16S
ATOM    392  C1* C   A  23     166.567  97.835  -5.526  1.00 27.32      A16S
ATOM    393  N1  C   A  23     165.779  99.082  -5.525  1.00 36.20      A16S
ATOM    394  C6  C   A  23     164.738  99.263  -6.392  1.00 36.20      A16S
ATOM    395  C2  C   A  23     166.112 100.070  -4.624  1.00 36.20      A16S
ATOM    396  O2  C   A  23     167.047  99.869  -3.846  1.00 36.20      A16S
ATOM    397  N3  C   A  23     165.411 101.218  -4.610  1.00 36.20      A16S
ATOM    398  C4  C   A  23     164.401 101.390  -5.458  1.00 36.20      A16S
ATOM    399  N4  C   A  23     163.742 102.550  -5.416  1.00 36.20      A16S
ATOM    400  C5  C   A  23     164.027 100.388  -6.389  1.00 36.20      A16S
ATOM    401  C2* C   A  23     166.064  96.851  -4.467  1.00 27.32      A16S
ATOM    402  O2* C   A  23     167.121  96.022  -4.045  1.00 27.32      A16S
ATOM    403  C3* C   A  23     165.057  96.047  -5.259  1.00 27.32      A16S
ATOM    404  O3* C   A  23     164.845  94.783  -4.694  1.00 27.32      A16S
ATOM    405  P   U   A  24     163.644  94.598  -3.652  1.00 32.21      A16S
ATOM    406  O1P U   A  24     163.623  93.179  -3.188  1.00 46.02      A16S
ATOM    407  O2P U   A  24     162.429  95.184  -4.282  1.00 46.02      A16S
ATOM    408  O5* U   A  24     164.059  95.548  -2.444  1.00 32.21      A16S
ATOM    409  C5* U   A  24     165.256  95.305  -1.712  1.00 32.21      A16S
ATOM    410  C4* U   A  24     165.423  96.330  -0.631  1.00 32.21      A16S
ATOM    411  O4* U   A  24     165.743  97.615  -1.217  1.00 32.21      A16S
ATOM    412  C1* U   A  24     165.205  98.650  -0.411  1.00 32.21      A16S
ATOM    413  N1  U   A  24     164.264  99.452  -1.211  1.00 46.02      A16S
ATOM    414  C6  U   A  24     163.710  98.973  -2.375  1.00 46.02      A16S
ATOM    415  C2  U   A  24     163.945 100.712  -0.745  1.00 46.02      A16S
ATOM    416  O2  U   A  24     164.412 101.178   0.274  1.00 46.02      A16S
ATOM    417  N3  U   A  24     163.053 101.404  -1.517  1.00 46.02      A16S
ATOM    418  C4  U   A  24     162.458 100.980  -2.673  1.00 46.02      A16S
ATOM    419  O4  U   A  24     161.608 101.687  -3.203  1.00 46.02      A16S
ATOM    420  C5  U   A  24     162.843  99.677  -3.100  1.00 46.02      A16S
ATOM    421  C2* U   A  24     164.505  97.994   0.777  1.00 32.21      A16S
ATOM    422  O2* U   A  24     165.403  97.966   1.864  1.00 32.21      A16S
ATOM    423  C3* U   A  24     164.203  96.608   0.227  1.00 32.21      A16S
ATOM    424  O3* U   A  24     164.003  95.650   1.254  1.00 32.21      A16S
ATOM    425  P   C   A  25     162.525  95.448   1.858  1.00 44.59      A16S
ATOM    426  O1P C   A  25     162.504  94.162   2.602  1.00 35.16      A16S
ATOM    427  O2P C   A  25     161.553  95.665   0.757  1.00 35.16      A16S
ATOM    428  O5* C   A  25     162.365  96.657   2.885  1.00 44.59      A16S
ATOM    429  C5* C   A  25     163.348  96.880   3.907  1.00 44.59      A16S
ATOM    430  C4* C   A  25     163.055  98.153   4.659  1.00 44.59      A16S
ATOM    431  O4* C   A  25     163.296  99.301   3.817  1.00 44.59      A16S
ATOM    432  C1* C   A  25     162.374 100.327   4.137  1.00 44.59      A16S
ATOM    433  N1  C   A  25     161.588 100.651   2.936  1.00 35.16      A16S
ATOM    434  C6  C   A  25     161.407  99.734   1.939  1.00 35.16      A16S
ATOM    435  C2  C   A  25     161.014 101.910   2.843  1.00 35.16      A16S
ATOM    436  O2  C   A  25     161.223 102.730   3.752  1.00 35.16      A16S
ATOM    437  N3  C   A  25     160.253 102.208   1.769  1.00 35.16      A16S
ATOM    438  C4  C   A  25     160.070 101.301   0.808  1.00 35.16      A16S
ATOM    439  N4  C   A  25     159.305 101.631  -0.231  1.00 35.16      A16S
ATOM    440  C5  C   A  25     160.663 100.016   0.870  1.00 35.16      A16S
ATOM    441  C2* C   A  25     161.486  99.824   5.272  1.00 44.59      A16S
ATOM    442  O2* C   A  25     161.976 100.302   6.508  1.00 44.59      A16S
ATOM    443  C3* C   A  25     161.626  98.320   5.119  1.00 44.59      A16S
ATOM    444  O3* C   A  25     161.400  97.649   6.330  1.00 44.59      A16S
ATOM    445  P   A   A  26     159.914  97.209   6.701  1.00 41.42      A16S
ATOM    446  O1P A   A  26     159.979  96.320   7.883  1.00 46.02      A16S
ATOM    447  O2P A   A  26     159.258  96.739   5.464  1.00 46.02      A16S
ATOM    448  O5* A   A  26     159.237  98.576   7.148  1.00 41.42      A16S
ATOM    449  C5* A   A  26     159.615  99.207   8.370  1.00 41.42      A16S
ATOM    450  C4* A   A  26     158.889 100.515   8.527  1.00 41.42      A16S
ATOM    451  O4* A   A  26     159.193 101.377   7.403  1.00 41.42      A16S
ATOM    452  C1* A   A  26     158.110 102.259   7.175  1.00 41.42      A16S
ATOM    453  N9  A   A  26     157.682 102.118   5.785  1.00 46.02      A16S
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ATOM    454  C4  A   A  26     157.110 103.085   5.004  1.00 46.02      A16S
ATOM    455  N3  A   A  26     156.862 104.352   5.338  1.00 46.02      A16S
ATOM    456  C2  A   A  26     156.284 104.988   4.335  1.00 46.02      A16S
ATOM    457  N1  A   A  26     155.945 104.534   3.130  1.00 46.02      A16S
ATOM    458  C6  A   A  26     156.205 103.246   2.836  1.00 46.02      A16S
ATOM    459  N6  A   A  26     155.848 102.770   1.641  1.00 46.02      A16S
ATOM    460  C5  A   A  26     156.826 102.477   3.804  1.00 46.02      A16S
ATOM    461  N7  A   A  26     157.234 101.158   3.810  1.00 46.02      A16S
ATOM    462  C8  A   A  26     157.741 100.996   5.003  1.00 46.02      A16S
ATOM    463  C2* A   A  26     157.016 101.915   8.187  1.00 41.42      A16S
ATOM    464  O2* A   A  26     157.173 102.788   9.281  1.00 41.42      A16S
ATOM    465  C3* A   A  26     157.373 100.485   8.579  1.00 41.42      A16S
ATOM    466  O3* A   A  26     156.940 100.216   9.905  1.00 41.42      A16S
ATOM    467  P   G   A  27     155.993  98.947  10.205  1.00 45.03      A16S
ATOM    468  O1P G   A  27     155.689  98.944  11.667  1.00 50.18      A16S
ATOM    469  O2P G   A  27     156.624  97.747   9.589  1.00 50.18      A16S
ATOM    470  O5* G   A  27     154.643  99.281   9.427  1.00 45.03      A16S
ATOM    471  C5* G   A  27     153.966 100.535   9.621  1.00 45.03      A16S
ATOM    472  C4* G   A  27     152.635 100.512   8.916  1.00 45.03      A16S
ATOM    473  O4* G   A  27     152.850 100.479   7.484  1.00 45.03      A16S
ATOM    474  C1* G   A  27     151.861  99.669   6.868  1.00 45.03      A16S
ATOM    475  N9  G   A  27     152.518  98.547   6.202  1.00 50.18      A16S
ATOM    476  C4  G   A  27     151.980  97.731   5.235  1.00 50.18      A16S
ATOM    477  N3  G   A  27     150.747  97.832   4.709  1.00 50.18      A16S
ATOM    478  C2  G   A  27     150.523  96.894   3.810  1.00 50.18      A16S
ATOM    479  N2  G   A  27     149.344  96.836   3.180  1.00 50.18      A16S
ATOM    480  N1  G   A  27     151.438  95.940   3.458  1.00 50.18      A16S
ATOM    481  C6  G   A  27     152.711  95.822   3.991  1.00 50.18      A16S
ATOM    482  O6  G   A  27     153.460  94.917   3.609  1.00 50.18      A16S
ATOM    483  C5  G   A  27     152.960  96.813   4.947  1.00 50.18      A16S
ATOM    484  N7  G   A  27     154.089  97.045   5.707  1.00 50.18      A16S
ATOM    485  C8  G   A  27     153.784  98.084   6.432  1.00 50.18      A16S
ATOM    486  C2* G   A  27     150.918  99.181   7.965  1.00 45.03      A16S
ATOM    487  O2* G   A  27     149.788 100.019   8.041  1.00 45.03      A16S
ATOM    488  C3* G   A  27     151.804  99.278   9.192  1.00 45.03      A16S
ATOM    489  O3* G   A  27     151.050  99.372  10.375  1.00 45.03      A16S
ATOM    490  P   G   A  28     150.677  98.031  11.176  1.00 46.34      A16S
ATOM    491  O1P G   A  28     149.919  98.493  12.371  1.00 41.86      A16S
ATOM    492  O2P G   A  28     151.885  97.185  11.357  1.00 41.86      A16S
ATOM    493  O5* G   A  28     149.707  97.235  10.192  1.00 46.34      A16S
ATOM    494  C5* G   A  28     148.381  97.701   9.963  1.00 46.34      A16S
ATOM    495  C4* G   A  28     147.696  96.880   8.906  1.00 46.34      A16S
ATOM    496  O4* G   A  28     148.413  97.004   7.651  1.00 46.34      A16S
ATOM    497  C1* G   A  28     148.185  95.845   6.862  1.00 46.34      A16S
ATOM    498  N9  G   A  28     149.455  95.181   6.602  1.00 41.86      A16S
ATOM    499  C4  G   A  28     149.673  94.178   5.694  1.00 41.86      A16S
ATOM    500  N3  G   A  28     148.762  93.658   4.857  1.00 41.86      A16S
ATOM    501  C2  G   A  28     149.267  92.691   4.124  1.00 41.86      A16S
ATOM    502  N2  G   A  28     148.507  92.065   3.250  1.00 41.86      A16S
ATOM    503  N1  G   A  28     150.557  92.268   4.197  1.00 41.86      A16S
ATOM    504  C6  G   A  28     151.515  92.790   5.050  1.00 41.86      A16S
ATOM    505  O6  G   A  28     152.660  92.334   5.044  1.00 41.86      A16S
ATOM    506  C5  G   A  28     150.991  93.827   5.845  1.00 41.86      A16S
ATOM    507  N7  G   A  28     151.602  94.609   6.814  1.00 41.86      A16S
ATOM    508  C8  G   A  28     150.653  95.401   7.231  1.00 41.86      A16S
ATOM    509  C2* G   A  28     147.278  94.927   7.675  1.00 46.34      A16S
ATOM    510  O2* G   A  28     145.947  95.212   7.300  1.00 46.34      A16S
ATOM    511  C3* G   A  28     147.579  95.378   9.095  1.00 46.34      A16S
ATOM    512  O3* G   A  28     146.542  94.991   9.972  1.00 46.34      A16S
ATOM    513  P   G   A  29     146.701  93.636  10.835  1.00 40.90      A16S
ATOM    514  O1P G   A  29     145.512  93.531  11.725  1.00 51.13      A16S
ATOM    515  O2P G   A  29     148.065  93.587  11.423  1.00 51.13      A16S
ATOM    516  O5* G   A  29     146.606  92.465   9.759  1.00 40.90      A16S
ATOM    517  C5* G   A  29     145.417  92.306   8.995  1.00 40.90      A16S
ATOM    518  C4* G   A  29     145.615  91.308   7.893  1.00 40.90      A16S
ATOM    519  O4* G   A  29     146.731  91.693   7.061  1.00 40.90      A16S
ATOM    520  C1* G   A  29     147.265  90.544   6.431  1.00 40.90      A16S
ATOM    521  N9  G   A  29     148.703  90.461   6.683  1.00 51.13      A16S
ATOM    522  C4  G   A  29     149.591  89.643   6.019  1.00 51.13      A16S
ATOM    523  N3  G   A  29     149.287  88.787   5.021  1.00 51.13      A16S
ATOM    524  C2  G   A  29     150.350  88.139   4.589  1.00 51.13      A16S
ATOM    525  N2  G   A  29     150.230  87.267   3.600  1.00 51.13      A16S
ATOM    526  N1  G   A  29     151.611  88.306   5.092  1.00 51.13      A16S
ATOM    527  C6  G   A  29     151.953  89.183   6.110  1.00 51.13      A16S
ATOM    528  O6  G   A  29     153.129  89.269   6.474  1.00 51.13      A16S
ATOM    529  C5  G   A  29     150.817  89.891   6.592  1.00 51.13      A16S
ATOM    530  N7  G   A  29     150.706  90.844   7.594  1.00 51.13      A16S
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ATOM    531  C8  G   A  29     149.437  91.153   7.611  1.00 51.13      A16S
ATOM    532  C2* G   A  29     146.501  89.337   6.971  1.00 40.90      A16S
ATOM    533  O2* G   A  29     145.489  89.029   6.031  1.00 40.90      A16S
ATOM    534  C3* G   A  29     145.940  89.886   8.276  1.00 40.90      A16S
ATOM    535  O3* G   A  29     144.776  89.197   8.663  1.00 40.90      A16S
ATOM    536  P   U   A  30     144.878  88.019   9.741  1.00 51.09      A16S
ATOM    537  O1P U   A  30     143.477  87.639  10.052  1.00 47.47      A16S
ATOM    538  O2P U   A  30     145.778  88.460  10.829  1.00 47.47      A16S
ATOM    539  O5* U   A  30     145.599  86.836   8.950  1.00 51.09      A16S
ATOM    540  C5* U   A  30     144.921  86.092   7.900  1.00 51.09      A16S
ATOM    541  C4* U   A  30     145.803  84.962   7.424  1.00 51.09      A16S
ATOM    542  O4* U   A  30     147.051  85.539   6.998  1.00 51.09      A16S
ATOM    543  C1* U   A  30     148.091  84.624   7.229  1.00 51.09      A16S
ATOM    544  N1  U   A  30     149.287  85.343   7.679  1.00 47.47      A16S
ATOM    545  C6  U   A  30     149.231  86.302   8.643  1.00 47.47      A16S
ATOM    546  C2  U   A  30     150.488  85.001   7.088  1.00 47.47      A16S
ATOM    547  O2  U   A  30     150.581  84.175   6.187  1.00 47.47      A16S
ATOM    548  N3  U   A  30     151.577  85.667   7.571  1.00 47.47      A16S
ATOM    549  C4  U   A  30     151.587  86.624   8.535  1.00 47.47      A16S
ATOM    550  O4  U   A  30     152.649  87.117   8.865  1.00 47.47      A16S
ATOM    551  C5  U   A  30     150.313  86.943   9.077  1.00 47.47      A16S
ATOM    552  C2* U   A  30     147.598  83.535   8.180  1.00 51.09      A16S
ATOM    553  O2* U   A  30     147.636  82.273   7.544  1.00 51.09      A16S
ATOM    554  C3* U   A  30     146.193  84.010   8.545  1.00 51.09      A16S
ATOM    555  O3* U   A  30     145.348  82.854   8.650  1.00 51.09      A16S
ATOM    556  P   G   A  31     144.562  82.272   7.357  1.00 57.75      A16S
ATOM    557  O1P G   A  31     145.483  82.039   6.221  1.00 50.62      A16S
ATOM    558  O2P G   A  31     143.350  83.101   7.153  1.00 50.62      A16S
ATOM    559  O5* G   A  31     144.106  80.838   7.865  1.00 57.75      A16S
ATOM    560  C5* G   A  31     143.542  80.691   9.177  1.00 57.75      A16S
ATOM    561  C4* G   A  31     144.027  79.419   9.814  1.00 57.75      A16S
ATOM    562  O4* G   A  31     143.739  78.324   8.914  1.00 57.75      A16S
ATOM    563  C1* G   A  31     144.915  77.611   8.640  1.00 57.75      A16S
ATOM    564  N9  G   A  31     144.835  77.144   7.265  1.00 50.62      A16S
ATOM    565  C4  G   A  31     144.683  75.839   6.884  1.00 50.62      A16S
ATOM    566  N3  G   A  31     144.634  74.786   7.713  1.00 50.62      A16S
ATOM    567  C2  G   A  31     144.449  73.664   7.069  1.00 50.62      A16S
ATOM    568  N2  G   A  31     144.393  72.527   7.755  1.00 50.62      A16S
ATOM    569  N1  G   A  31     144.310  73.572   5.713  1.00 50.62      A16S
ATOM    570  C6  G   A  31     144.359  74.641   4.833  1.00 50.62      A16S
ATOM    571  O6  G   A  31     144.214  74.444   3.621  1.00 50.62      A16S
ATOM    572  C5  G   A  31     144.573  75.863   5.517  1.00 50.62      A16S
ATOM    573  N7  G   A  31     144.693  77.159   5.039  1.00 50.62      A16S
ATOM    574  C8  G   A  31     144.852  77.886   6.114  1.00 50.62      A16S
ATOM    575  C2* G   A  31     146.077  78.539   8.966  1.00 57.75      A16S
ATOM    576  O2* G   A  31     147.185  77.757   9.350  1.00 57.75      A16S
ATOM    577  C3* G   A  31     145.510  79.333  10.136  1.00 57.75      A16S
ATOM    578  O3* G   A  31     145.623  78.538  11.303  1.00 57.75      A16S
ATOM    579  P   A   A  32     146.664  78.940  12.447  1.00 51.29      A16S
ATOM    580  O1P A   A  32     146.869  77.709  13.257  1.00 37.40      A16S
ATOM    581  O2P A   A  32     146.200  80.196  13.108  1.00 37.40      A16S
ATOM    582  O5* A   A  32     147.998  79.275  11.649  1.00 51.29      A16S
ATOM    583  C5* A   A  32     149.278  78.939  12.183  1.00 51.29      A16S
ATOM    584  C4* A   A  32     150.146  78.383  11.092  1.00 51.29      A16S
ATOM    585  O4* A   A  32     150.286  79.362  10.033  1.00 51.29      A16S
ATOM    586  C1* A   A  32     151.601  79.308   9.507  1.00 51.29      A16S
ATOM    587  N9  A   A  32     152.236  80.610   9.746  1.00 37.40      A16S
ATOM    588  C4  A   A  32     153.495  81.010   9.356  1.00 37.40      A16S
ATOM    589  N3  A   A  32     154.399  80.305   8.654  1.00 37.40      A16S
ATOM    590  C2  A   A  32     155.512  81.013   8.480  1.00 37.40      A16S
ATOM    591  N1  A   A  32     155.803  82.249   8.896  1.00 37.40      A16S
ATOM    592  C6  A   A  32     154.869  82.929   9.597  1.00 37.40      A16S
ATOM    593  N6  A   A  32     155.155  84.161  10.019  1.00 37.40      A16S
ATOM    594  C5  A   A  32     153.648  82.292   9.844  1.00 37.40      A16S
ATOM    595  N7  A   A  32     152.507  82.703  10.511  1.00 37.40      A16S
ATOM    596  C8  A   A  32     151.701  81.678  10.422  1.00 37.40      A16S
ATOM    597  C2* A   A  32     152.321  78.142  10.192  1.00 51.29      A16S
ATOM    598  O2* A   A  32     152.149  76.983   9.405  1.00 51.29      A16S
ATOM    599  C3* A   A  32     151.563  78.045  11.507  1.00 51.29      A16S
ATOM    600  O3* A   A  32     151.592  76.746  12.075  1.00 51.29      A16S
ATOM    601  P   A   A  33     152.174  76.534  13.564  1.00 44.05      A16S
ATOM    602  O1P A   A  33     151.527  75.291  14.103  1.00 40.40      A16S
ATOM    603  O2P A   A  33     152.080  77.802  14.334  1.00 40.40      A16S
ATOM    604  O5* A   A  33     153.721  76.247  13.314  1.00 44.05      A16S
ATOM    605  C5* A   A  33     154.125  75.150  12.493  1.00 44.05      A16S
ATOM    606  C4* A   A  33     155.355  75.517  11.727  1.00 44.05      A16S
ATOM    607  O4* A   A  33     155.085  76.713  10.961  1.00 44.05      A16S
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ATOM    608  C1* A   A  33     156.243  77.522  10.925  1.00 44.05      A16S
ATOM    609  N9  A   A  33     155.923  78.803  11.560  1.00 40.40      A16S
ATOM    610  C4  A   A  33     156.704  79.932  11.512  1.00 40.40      A16S
ATOM    611  N3  A   A  33     157.880  80.077  10.884  1.00 40.40      A16S
ATOM    612  C2  A   A  33     158.344  81.312  11.041  1.00 40.40      A16S
ATOM    613  N1  A   A  33     157.806  82.339  11.697  1.00 40.40      A16S
ATOM    614  C6  A   A  33     156.618  82.159  12.311  1.00 40.40      A16S
ATOM    615  N6  A   A  33     156.076  83.190  12.952  1.00 40.40      A16S
ATOM    616  C5  A   A  33     156.023  80.895  12.228  1.00 40.40      A16S
ATOM    617  N7  A   A  33     154.833  80.388  12.726  1.00 40.40      A16S
ATOM    618  C8  A   A  33     154.819  79.146  12.306  1.00 40.40      A16S
ATOM    619  C2* A   A  33     157.354  76.773  11.659  1.00 44.05      A16S
ATOM    620  O2* A   A  33     158.112  76.006  10.747  1.00 44.05      A16S
ATOM    621  C3* A   A  33     156.546  75.886  12.584  1.00 44.05      A16S
ATOM    622  O3* A   A  33     157.264  74.744  12.993  1.00 44.05      A16S
ATOM    623  P   C   A  34     157.687  74.595  14.533  1.00 34.35      A16S
ATOM    624  O1P C   A  34     158.030  73.159  14.707  1.00 49.81      A16S
ATOM    625  O2P C   A  34     156.633  75.208  15.389  1.00 49.81      A16S
ATOM    626  O5* C   A  34     159.016  75.469  14.656  1.00 34.35      A16S
ATOM    627  C5* C   A  34     160.216  75.027  14.022  1.00 34.35      A16S
ATOM    628  C4* C   A  34     161.198  76.154  13.906  1.00 34.35      A16S
ATOM    629  O4* C   A  34     160.608  77.243  13.163  1.00 34.35      A16S
ATOM    630  C1* C   A  34     161.115  78.475  13.637  1.00 34.35      A16S
ATOM    631  N1  C   A  34     159.984  79.275  14.115  1.00 49.81      A16S
ATOM    632  C6  C   A  34     158.747  78.713  14.262  1.00 49.81      A16S
ATOM    633  C2  C   A  34     160.188  80.621  14.417  1.00 49.81      A16S
ATOM    634  O2  C   A  34     161.318  81.098  14.274  1.00 49.81      A16S
ATOM    635  N3  C   A  34     159.149  81.363  14.856  1.00 49.81      A16S
ATOM    636  C4  C   A  34     157.942  80.802  14.991  1.00 49.81      A16S
ATOM    637  N4  C   A  34     156.936  81.558  15.427  1.00 49.81      A16S
ATOM    638  C5  C   A  34     157.710  79.434  14.688  1.00 49.81      A16S
ATOM    639  C2* C   A  34     162.109  78.163  14.749  1.00 34.35      A16S
ATOM    640  O2* C   A  34     163.404  78.148  14.196  1.00 34.35      A16S
ATOM    641  C3* C   A  34     161.624  76.794  15.203  1.00 34.35      A16S
ATOM    642  O3* C   A  34     162.616  76.025  15.835  1.00 34.35      A16S
ATOM    643  P   G   A  35     162.601  75.888  17.433  1.00 43.46      A16S
ATOM    644  O1P G   A  35     163.587  74.822  17.717  1.00 38.09      A16S
ATOM    645  O2P G   A  35     161.209  75.749  17.952  1.00 38.09      A16S
ATOM    646  O5* G   A  35     163.216  77.276  17.909  1.00 43.46      A16S
ATOM    647  C5* G   A  35     164.548  77.614  17.533  1.00 43.46      A16S
ATOM    648  C4* G   A  35     164.918  78.963  18.062  1.00 43.46      A16S
ATOM    649  O4* G   A  35     164.192  79.994  17.360  1.00 43.46      A16S
ATOM    650  C1* G   A  35     163.919  81.075  18.237  1.00 43.46      A16S
ATOM    651  N9  G   A  35     162.468  81.237  18.319  1.00 38.09      A16S
ATOM    652  C4  G   A  35     161.767  82.379  18.638  1.00 38.09      A16S
ATOM    653  N3  G   A  35     162.294  83.577  18.966  1.00 38.09      A16S
ATOM    654  C2  G   A  35     161.354  84.477  19.218  1.00 38.09      A16S
ATOM    655  N2  G   A  35     161.690  85.716  19.555  1.00 38.09      A16S
ATOM    656  N1  G   A  35     160.014  84.224  19.157  1.00 38.09      A16S
ATOM    657  C6  G   A  35     159.448  82.999  18.833  1.00 38.09      A16S
ATOM    658  O6  G   A  35     158.216  82.869  18.827  1.00 38.09      A16S
ATOM    659  C5  G   A  35     160.437  82.026  18.552  1.00 38.09      A16S
ATOM    660  N7  G   A  35     160.303  80.696  18.198  1.00 38.09      A16S
ATOM    661  C8  G   A  35     161.529  80.268  18.075  1.00 38.09      A16S
ATOM    662  C2* G   A  35     164.565  80.728  19.575  1.00 43.46      A16S
ATOM    663  O2* G   A  35     165.878  81.252  19.606  1.00 43.46      A16S
ATOM    664  C3* G   A  35     164.595  79.211  19.513  1.00 43.46      A16S
ATOM    665  O3* G   A  35     165.582  78.670  20.353  1.00 43.46      A16S
ATOM    666  P   C   A  36     165.173  78.160  21.813  1.00 53.89      A16S
ATOM    667  O1P C   A  36     166.338  77.356  22.253  1.00 38.59      A16S
ATOM    668  O2P C   A  36     163.814  77.544  21.801  1.00 38.59      A16S
ATOM    669  O5* C   A  36     165.081  79.506  22.657  1.00 53.89      A16S
ATOM    670  C5* C   A  36     166.255  80.267  22.982  1.00 53.89      A16S
ATOM    671  C4* C   A  36     165.855  81.575  23.619  1.00 53.89      A16S
ATOM    672  O4* C   A  36     165.153  82.371  22.625  1.00 53.89      A16S
ATOM    673  C1* C   A  36     164.084  83.080  23.238  1.00 53.89      A16S
ATOM    674  N1  C   A  36     162.809  82.559  22.712  1.00 38.59      A16S
ATOM    675  C6  C   A  36     162.744  81.326  22.132  1.00 38.59      A16S
ATOM    676  C2  C   A  36     161.659  83.344  22.820  1.00 38.59      A16S
ATOM    677  O2  C   A  36     161.740  84.459  23.353  1.00 38.59      A16S
ATOM    678  N3  C   A  36     160.485  82.873  22.340  1.00 38.59      A16S
ATOM    679  C4  C   A  36     160.439  81.676  21.761  1.00 38.59      A16S
ATOM    680  N4  C   A  36     159.269  81.257  21.276  1.00 38.59      A16S
ATOM    681  C5  C   A  36     161.594  80.853  21.644  1.00 38.59      A16S
ATOM    682  C2* C   A  36     164.180  82.832  24.738  1.00 53.89      A16S
ATOM    683  O2* C   A  36     164.969  83.843  25.326  1.00 53.89      A16S
ATOM    684  C3* C   A  36     164.860  81.475  24.769  1.00 53.89      A16S
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ATOM    685  O3* C   A  36     165.423  81.201  26.036  1.00 53.89      A16S
ATOM    686  P    U   A  37     164.545  80.397  27.120  1.00 49.08      A16S
ATOM    687  O1P U   A  37     165.333  80.399  28.374  1.00 69.39      A16S
ATOM    688  O2P U   A  37     164.088  79.105  26.542  1.00 69.39      A16S
ATOM    689  O5* U   A  37     163.236  81.283  27.319  1.00 49.08      A16S
ATOM    690  C5* U   A  37     163.308  82.607  27.882  1.00 49.08      A16S
ATOM    691  C4* U   A  37     161.922  83.206  28.034  1.00 49.08      A16S
ATOM    692  O4* U   A  37     161.348  83.505  26.734  1.00 49.08      A16S
ATOM    693  C1* U   A  37     159.934  83.415  26.809  1.00 49.08      A16S
ATOM    694  N1   U   A  37     159.451  82.399  25.866  1.00 69.39      A16S
ATOM    695  C6   U   A  37     160.158  81.251  25.618  1.00 69.39      A16S
ATOM    696  C2   U   A  37     158.229  82.620  25.270  1.00 69.39      A16S
ATOM    697  O2   U   A  37     157.589  83.650  25.426  1.00 69.39      A16S
ATOM    698  N3   U   A  37     157.777  81.591  24.482  1.00 69.39      A16S
ATOM    699  C4   U   A  37     158.417  80.399  24.226  1.00 69.39      A16S
ATOM    700  O4   U   A  37     157.846  79.535  23.557  1.00 69.39      A16S
ATOM    701  C5   U   A  37     159.694  80.270  24.844  1.00 69.39      A16S
ATOM    702  C2* U   A  37     159.571  83.004  28.234  1.00 49.08      A16S
ATOM    703  O2* U   A  37     159.245  84.150  28.988  1.00 49.08      A16S
ATOM    704  C3* U   A  37     160.860  82.352  28.707  1.00 49.08      A16S
ATOM    705  O3* U   A  37     160.942  82.374  30.115  1.00 49.08      A16S
ATOM    706  P    G   A  38     160.364  81.134  30.959  1.00 53.93      A16S
ATOM    707  O1P G   A  38     160.719  81.417  32.377  1.00 70.92      A16S
ATOM    708  O2P G   A  38     160.806  79.861  30.330  1.00 70.92      A16S
ATOM    709  O5* G   A  38     158.783  81.253  30.808  1.00 53.93      A16S
ATOM    710  C5* G   A  38     158.102  82.382  31.355  1.00 53.93      A16S
ATOM    711  C4* G   A  38     156.717  82.495  30.786  1.00 53.93      A16S
ATOM    712  O4* G   A  38     156.785  82.500  29.340  1.00 53.93      A16S
ATOM    713  C1* G   A  38     155.584  81.964  28.815  1.00 53.93      A16S
ATOM    714  N9   G   A  38     155.885  80.814  27.973  1.00 70.92      A16S
ATOM    715  C4   G   A  38     154.957  80.091  27.277  1.00 70.92      A16S
ATOM    716  N3   G   A  38     153.635  80.341  27.240  1.00 70.92      A16S
ATOM    717  C2   G   A  38     152.991  79.471  26.494  1.00 70.92      A16S
ATOM    718  N2   G   A  38     151.670  79.581  26.334  1.00 70.92      A16S
ATOM    719  N1   G   A  38     153.592  78.430  25.843  1.00 70.92      A16S
ATOM    720  C6   G   A  38     154.953  78.152  25.866  1.00 70.92      A16S
ATOM    721  O6   G   A  38     155.394  77.180  25.234  1.00 70.92      A16S
ATOM    722  C5   G   A  38     155.660  79.089  26.660  1.00 70.92      A16S
ATOM    723  N7   G   A  38     157.013  79.187  26.951  1.00 70.92      A16S
ATOM    724  C8   G   A  38     157.100  80.228  27.731  1.00 70.92      A16S
ATOM    725  C2* G   A  38     154.712  81.533  29.990  1.00 53.93      A16S
ATOM    726  O2* G   A  38     153.754  82.540  30.240  1.00 53.93      A16S
ATOM    727  C3* G   A  38     155.745  81.374  31.096  1.00 53.93      A16S
ATOM    728  O3* G   A  38     155.148  81.514  32.371  1.00 53.93      A16S
ATOM    729  P    G   A  39     155.151  80.267  33.391  1.00 64.42      A16S
ATOM    730  O1P G   A  39     156.204  80.546  34.421  1.00 58.16      A16S
ATOM    731  O2P G   A  39     155.187  78.985  32.624  1.00 58.16      A16S
ATOM    732  O5* G   A  39     153.743  80.373  34.123  1.00 64.42      A16S
ATOM    733  C5* G   A  39     152.518  80.360  33.384  1.00 64.42      A16S
ATOM    734  C4* G   A  39     151.420  80.974  34.212  1.00 64.42      A16S
ATOM    735  O4* G   A  39     151.634  82.406  34.340  1.00 64.42      A16S
ATOM    736  C1* G   A  39     150.385  83.072  34.377  1.00 64.42      A16S
ATOM    737  N9   G   A  39     150.289  83.974  33.234  1.00 58.16      A16S
ATOM    738  C4   G   A  39     149.279  84.874  33.008  1.00 58.16      A16S
ATOM    739  N3   G   A  39     148.238  85.117  33.830  1.00 58.16      A16S
ATOM    740  C2   G   A  39     147.408  86.011  33.328  1.00 58.16      A16S
ATOM    741  N2   G   A  39     146.338  86.380  34.030  1.00 58.16      A16S
ATOM    742  N1   G   A  39     147.572  86.609  32.105  1.00 58.16      A16S
ATOM    743  C6   G   A  39     148.631  86.372  31.238  1.00 58.16      A16S
ATOM    744  O6   G   A  39     148.674  86.950  30.154  1.00 58.16      A16S
ATOM    745  C5   G   A  39     149.548  85.428  31.778  1.00 58.16      A16S
ATOM    746  N7   G   A  39     150.731  84.921  31.261  1.00 58.16      A16S
ATOM    747  C8   G   A  39     151.137  84.068  32.161  1.00 58.16      A16S
ATOM    748  C2* G   A  39     149.293  82.008  34.291  1.00 64.42      A16S
ATOM    749  O2* G   A  39     148.857  81.667  35.585  1.00 64.42      A16S
ATOM    750  C3* G   A  39     150.033  80.866  33.621  1.00 64.42      A16S
ATOM    751  O3* G   A  39     149.452  79.616  33.911  1.00 64.42      A16S
ATOM    752  P    C   A  40     148.362  79.008  32.906  1.00 63.01      A16S
ATOM    753  O1P C   A  40     148.185  77.575  33.264  1.00 63.49      A16S
ATOM    754  O2P C   A  40     148.750  79.372  31.521  1.00 63.49      A16S
ATOM    755  O5* C   A  40     147.040  79.811  33.272  1.00 63.01      A16S
ATOM    756  C5* C   A  40     146.566  79.831  34.619  1.00 63.01      A16S
ATOM    757  C4* C   A  40     145.348  80.704  34.737  1.00 63.01      A16S
ATOM    758  O4* C   A  40     145.709  82.102  34.611  1.00 63.01      A16S
ATOM    759  C1* C   A  40     144.642  82.813  34.003  1.00 63.01      A16S
ATOM    760  N1   C   A  40     145.127  83.417  32.750  1.00 63.49      A16S
ATOM    761  C6   C   A  40     146.352  83.094  32.242  1.00 63.49      A16S
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ATOM    762  C2  C   A  40     144.300  84.316  32.075  1.00 63.49      A16S
ATOM    763  O2  C   A  40     143.196  84.598  32.563  1.00 63.49      A16S
ATOM    764  N3  C   A  40     144.722  84.849  30.910  1.00 63.49      A16S
ATOM    765  C4  C   A  40     145.916  84.517  30.422  1.00 63.49      A16S
ATOM    766  N4  C   A  40     146.298  85.063  29.275  1.00 63.49      A16S
ATOM    767  C5  C   A  40     146.776  83.611  31.090  1.00 63.49      A16S
ATOM    768  C2* C   A  40     143.520  81.812  33.736  1.00 63.01      A16S
ATOM    769  O2* C   A  40     142.600  81.834  34.806  1.00 63.01      A16S
ATOM    770  C3* C   A  40     144.287  80.503  33.681  1.00 63.01      A16S
ATOM    771  O3* C   A  40     143.463  79.392  33.950  1.00 63.01      A16S
ATOM    772  P   G   A  41     142.898  78.536  32.722  1.00 59.79      A16S
ATOM    773  O1P G   A  41     142.366  77.261  33.275  1.00 64.92      A16S
ATOM    774  O2P G   A  41     143.978  78.509  31.687  1.00 64.92      A16S
ATOM    775  O5* G   A  41     141.675  79.408  32.183  1.00 59.79      A16S
ATOM    776  C5* G   A  41     140.641  79.836  33.084  1.00 59.79      A16S
ATOM    777  C4* G   A  41     139.802  80.935  32.467  1.00 59.79      A16S
ATOM    778  O4* G   A  41     140.580  82.145  32.275  1.00 59.79      A16S
ATOM    779  C1* G   A  41     140.088  82.853  31.152  1.00 59.79      A16S
ATOM    780  N9  G   A  41     141.169  82.988  30.185  1.00 64.92      A16S
ATOM    781  C4  G   A  41     141.183  83.803  29.079  1.00 64.92      A16S
ATOM    782  N3  G   A  41     140.204  84.649  28.707  1.00 64.92      A16S
ATOM    783  C2  G   A  41     140.503  85.293  27.596  1.00 64.92      A16S
ATOM    784  N2  G   A  41     139.642  86.187  27.099  1.00 64.92      A16S
ATOM    785  N1  G   A  41     141.670  85.108  26.892  1.00 64.92      A16S
ATOM    786  C6  G   A  41     142.689  84.230  27.249  1.00 64.92      A16S
ATOM    787  O6  G   A  41     143.697  84.115  26.529  1.00 64.92      A16S
ATOM    788  C5  G   A  41     142.386  83.551  28.456  1.00 64.92      A16S
ATOM    789  N7  G   A  41     143.122  82.616  29.167  1.00 64.92      A16S
ATOM    790  C8  G   A  41     142.363  82.313  30.184  1.00 64.92      A16S
ATOM    791  C2* G   A  41     138.916  82.056  30.578  1.00 59.79      A16S
ATOM    792  O2* G   A  41     137.696  82.565  31.076  1.00 59.79      A16S
ATOM    793  C3* G   A  41     139.199  80.658  31.107  1.00 59.79      A16S
ATOM    794  O3* G   A  41     138.005  79.914  31.205  1.00 59.79      A16S
ATOM    795  P   G   A  42     137.491  79.095  29.930  1.00 48.96      A16S
ATOM    796  O1P G   A  42     136.428  78.140  30.366  1.00 54.36      A16S
ATOM    797  O2P G   A  42     138.695  78.585  29.234  1.00 54.36      A16S
ATOM    798  O5* G   A  42     136.812  80.201  29.009  1.00 48.96      A16S
ATOM    799  C5* G   A  42     135.599  80.830  29.421  1.00 48.96      A16S
ATOM    800  C4* G   A  42     135.177  81.863  28.417  1.00 48.96      A16S
ATOM    801  O4* G   A  42     136.179  82.899  28.332  1.00 48.96      A16S
ATOM    802  C1* G   A  42     136.295  83.341  26.994  1.00 48.96      A16S
ATOM    803  N9  G   A  42     137.656  83.052  26.561  1.00 54.36      A16S
ATOM    804  C4  G   A  42     138.314  83.573  25.480  1.00 54.36      A16S
ATOM    805  N3  G   A  42     137.812  84.455  24.594  1.00 54.36      A16S
ATOM    806  C2  G   A  42     138.710  84.791  23.675  1.00 54.36      A16S
ATOM    807  N2  G   A  42     138.396  85.685  22.724  1.00 54.36      A16S
ATOM    808  N1  G   A  42     139.986  84.279  23.629  1.00 54.36      A16S
ATOM    809  C6  G   A  42     140.510  83.359  24.532  1.00 54.36      A16S
ATOM    810  O6  G   A  42     141.667  82.951  24.402  1.00 54.36      A16S
ATOM    811  C5  G   A  42     139.575  83.012  25.517  1.00 54.36      A16S
ATOM    812  N7  G   A  42     139.702  82.155  26.593  1.00 54.36      A16S
ATOM    813  C8  G   A  42     138.541  82.204  27.180  1.00 54.36      A16S
ATOM    814  C2* G   A  42     135.216  82.625  26.184  1.00 48.96      A16S
ATOM    815  O2* G   A  42     134.061  83.437  26.190  1.00 48.96      A16S
ATOM    816  C3* G   A  42     135.012  81.358  27.004  1.00 48.96      A16S
ATOM    817  O3* G   A  42     133.716  80.818  26.859  1.00 48.96      A16S
ATOM    818  P   C   A  43     133.457  79.642  25.797  1.00 48.15      A16S
ATOM    819  O1P C   A  43     131.999  79.308  25.913  1.00 42.21      A16S
ATOM    820  O2P C   A  43     134.483  78.575  25.996  1.00 42.21      A16S
ATOM    821  O5* C   A  43     133.697  80.335  24.379  1.00 48.15      A16S
ATOM    822  C5* C   A  43     132.738  81.259  23.857  1.00 48.15      A16S
ATOM    823  C4* C   A  43     133.283  81.958  22.641  1.00 48.15      A16S
ATOM    824  O4* C   A  43     134.484  82.675  22.988  1.00 48.15      A16S
ATOM    825  C1* C   A  43     135.331  82.750  21.863  1.00 48.15      A16S
ATOM    826  N1  C   A  43     136.630  82.159  22.201  1.00 42.21      A16S
ATOM    827  C6  C   A  43     136.777  81.359  23.296  1.00 42.21      A16S
ATOM    828  C2  C   A  43     137.718  82.417  21.370  1.00 42.21      A16S
ATOM    829  O2  C   A  43     137.568  83.176  20.401  1.00 42.21      A16S
ATOM    830  N3  C   A  43     138.905  81.835  21.639  1.00 42.21      A16S
ATOM    831  C4  C   A  43     139.027  81.032  22.695  1.00 42.21      A16S
ATOM    832  N4  C   A  43     140.204  80.443  22.901  1.00 42.21      A16S
ATOM    833  C5  C   A  43     137.946  80.785  23.578  1.00 42.21      A16S
ATOM    834  C2* C   A  43     134.648  82.014  20.716  1.00 48.15      A16S
ATOM    835  O2* C   A  43     133.932  82.949  19.938  1.00 48.15      A16S
ATOM    836  C3* C   A  43     133.689  81.101  21.457  1.00 48.15      A16S
ATOM    837  O3* C   A  43     132.578  80.812  20.616  1.00 48.15      A16S
ATOM    838  P   G   A  44     132.576  79.464  19.748  1.00 53.83      A16S
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ATOM    839  O1P G   A  44     131.297  79.474  19.002  1.00 39.70      A16S
ATOM    840  O2P G   A  44     132.880  78.341  20.661  1.00 39.70      A16S
ATOM    841  O5* G   A  44     133.835  79.586  18.766  1.00 53.83      A16S
ATOM    842  C5* G   A  44     133.752  80.344  17.552  1.00 53.83      A16S
ATOM    843  C4* G   A  44     135.127  80.613  16.977  1.00 53.83      A16S
ATOM    844  O4* G   A  44     136.044  80.926  18.044  1.00 53.83      A16S
ATOM    845  C1* G   A  44     137.369  80.758  17.577  1.00 53.83      A16S
ATOM    846  N9  G   A  44     138.153  80.023  18.562  1.00 39.70      A16S
ATOM    847  C4  G   A  44     139.492  79.741  18.478  1.00 39.70      A16S
ATOM    848  N3  G   A  44     140.316  80.113  17.482  1.00 39.70      A16S
ATOM    849  C2  G   A  44     141.556  79.701  17.691  1.00 39.70      A16S
ATOM    850  N2  G   A  44     142.520  80.019  16.820  1.00 39.70      A16S
ATOM    851  N1  G   A  44     141.942  78.958  18.776  1.00 39.70      A16S
ATOM    852  C6  G   A  44     141.100  78.558  19.801  1.00 39.70      A16S
ATOM    853  O6  G   A  44     141.539  77.876  20.725  1.00 39.70      A16S
ATOM    854  C5  G   A  44     139.784  79.018  19.604  1.00 39.70      A16S
ATOM    855  N7  G   A  44     138.659  78.861  20.393  1.00 39.70      A16S
ATOM    856  C8  G   A  44     137.716  79.473  19.735  1.00 39.70      A16S
ATOM    857  C2* G   A  44     137.294  80.033  16.239  1.00 53.83      A16S
ATOM    858  O2* G   A  44     137.478  80.989  15.222  1.00 53.83      A16S
ATOM    859  C3* G   A  44     135.868  79.510  16.238  1.00 53.83      A16S
ATOM    860  O3* G   A  44     135.465  79.397  14.886  1.00 53.83      A16S
ATOM    861  P   U   A  45     135.638  77.994  14.120  1.00 44.61      A16S
ATOM    862  O1P U   A  45     135.075  78.184  12.763  1.00 46.24      A16S
ATOM    863  O2P U   A  45     135.099  76.907  15.001  1.00 46.24      A16S
ATOM    864  O5* U   A  45     137.214  77.805  13.988  1.00 44.61      A16S
ATOM    865  C5* U   A  45     137.964  78.548  13.027  1.00 44.61      A16S
ATOM    866  C4* U   A  45     139.435  78.318  13.239  1.00 44.61      A16S
ATOM    867  O4* U   A  45     139.753  78.599  14.623  1.00 44.61      A16S
ATOM    868  C1* U   A  45     140.782  77.734  15.069  1.00 44.61      A16S
ATOM    869  N1  U   A  45     140.315  76.995  16.250  1.00 46.24      A16S
ATOM    870  C6  U   A  45     138.983  76.866  16.534  1.00 46.24      A16S
ATOM    871  C2  U   A  45     141.276  76.427  17.070  1.00 46.24      A16S
ATOM    872  O2  U   A  45     142.473  76.516  16.859  1.00 46.24      A16S
ATOM    873  N3  U   A  45     140.786  75.751  18.147  1.00 46.24      A16S
ATOM    874  C4  U   A  45     139.472  75.586  18.484  1.00 46.24      A16S
ATOM    875  O4  U   A  45     139.190  74.966  19.508  1.00 46.24      A16S
ATOM    876  C5  U   A  45     138.541  76.198  17.590  1.00 46.24      A16S
ATOM    877  C2* U   A  45     141.161  76.817  13.915  1.00 44.61      A16S
ATOM    878  O2* U   A  45     142.342  77.310  13.320  1.00 44.61      A16S
ATOM    879  C3* U   A  45     139.911  76.893  13.045  1.00 44.61      A16S
ATOM    880  O3* U   A  45     140.169  76.589  11.687  1.00 44.61      A16S
ATOM    881  P   G   A  46     140.178  75.058  11.230  1.00 41.65      A16S
ATOM    882  O1P G   A  46     140.279  75.024   9.759  1.00 47.20      A16S
ATOM    883  O2P G   A  46     139.038  74.371  11.916  1.00 47.20      A16S
ATOM    884  O5* G   A  46     141.549  74.509  11.815  1.00 41.65      A16S
ATOM    885  C5* G   A  46     142.798  74.908  11.245  1.00 41.65      A16S
ATOM    886  C4* G   A  46     143.921  74.118  11.864  1.00 41.65      A16S
ATOM    887  O4* G   A  46     144.100  74.524  13.244  1.00 41.65      A16S
ATOM    888  C1* G   A  46     144.428  73.396  14.037  1.00 41.65      A16S
ATOM    889  N9  G   A  46     143.352  73.204  15.000  1.00 47.20      A16S
ATOM    890  C4  G   A  46     143.474  72.712  16.265  1.00 47.20      A16S
ATOM    891  N3  G   A  46     144.615  72.315  16.842  1.00 47.20      A16S
ATOM    892  C2  G   A  46     144.420  71.893  18.065  1.00 47.20      A16S
ATOM    893  N2  G   A  46     145.453  71.459  18.776  1.00 47.20      A16S
ATOM    894  N1  G   A  46     143.196  71.865  18.679  1.00 47.20      A16S
ATOM    895  C6  G   A  46     142.000  72.263  18.097  1.00 47.20      A16S
ATOM    896  O6  G   A  46     140.935  72.183  18.735  1.00 47.20      A16S
ATOM    897  C5  G   A  46     142.200  72.717  16.784  1.00 47.20      A16S
ATOM    898  N7  G   A  46     141.292  73.197  15.857  1.00 47.20      A16S
ATOM    899  C8  G   A  46     142.020  73.475  14.814  1.00 47.20      A16S
ATOM    900  C2* G   A  46     144.558  72.194  13.105  1.00 41.65      A16S
ATOM    901  O2* G   A  46     145.912  72.003  12.740  1.00 41.65      A16S
ATOM    902  C3* G   A  46     143.678  72.624  11.942  1.00 41.65      A16S
ATOM    903  O3* G   A  46     144.015  71.961  10.750  1.00 41.65      A16S
ATOM    904  P   C   A  47     143.255  70.605  10.379  1.00 48.53      A16S
ATOM    905  O1P C   A  47     141.909  70.952   9.836  1.00 50.21      A16S
ATOM    906  O2P C   A  47     143.360  69.731  11.576  1.00 50.21      A16S
ATOM    907  O5* C   A  47     144.149  69.986   9.221  1.00 48.53      A16S
ATOM    908  C5* C   A  47     145.493  69.580   9.484  1.00 48.53      A16S
ATOM    909  C4* C   A  47     146.253  69.447   8.193  1.00 48.53      A16S
ATOM    910  O4* C   A  47     147.601  68.991   8.469  1.00 48.53      A16S
ATOM    911  C1* C   A  47     147.841  67.789   7.773  1.00 48.53      A16S
ATOM    912  N1  C   A  47     148.731  66.954   8.585  1.00 50.21      A16S
ATOM    913  C6  C   A  47     148.405  66.621   9.870  1.00 50.21      A16S
ATOM    914  C2  C   A  47     149.936  66.522   8.028  1.00 50.21      A16S
ATOM    915  O2  C   A  47     150.186  66.796   6.848  1.00 50.21      A16S
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ATOM    916  N3  C   A  47     150.793  65.811   8.785  1.00 50.21      A16S
ATOM    917  C4  C   A  47     150.475  65.510  10.044  1.00 50.21      A16S
ATOM    918  N4  C   A  47     151.360  64.824  10.762  1.00 50.21      A16S
ATOM    919  C5  C   A  47     149.237  65.905  10.626  1.00 50.21      A16S
ATOM    920  C2* C   A  47     146.468  67.191   7.479  1.00 48.53      A16S
ATOM    921  O2* C   A  47     146.520  66.365   6.341  1.00 48.53      A16S
ATOM    922  C3* C   A  47     145.655  68.446   7.219  1.00 48.53      A16S
ATOM    923  O3* C   A  47     145.970  68.895   5.910  1.00 48.53      A16S
ATOM    924  P   C   A  48     144.936  69.813   5.107  1.00 46.58      A16S
ATOM    925  O1P C   A  48     144.393  70.811   6.042  1.00 83.32      A16S
ATOM    926  O2P C   A  48     143.999  68.935   4.344  1.00 83.32      A16S
ATOM    927  O5* C   A  48     145.882  70.567   4.085  1.00 46.58      A16S
ATOM    928  C5* C   A  48     146.382  71.870   4.368  1.00 46.58      A16S
ATOM    929  C4* C   A  48     147.306  72.278   3.268  1.00 46.58      A16S
ATOM    930  O4* C   A  48     147.532  73.704   3.246  1.00 46.58      A16S
ATOM    931  C1* C   A  48     148.902  73.993   3.422  1.00 46.58      A16S
ATOM    932  N1  C   A  48     148.984  74.952   4.539  1.00 83.32      A16S
ATOM    933  C6  C   A  48     148.052  74.926   5.540  1.00 83.32      A16S
ATOM    934  C2  C   A  48     150.017  75.898   4.564  1.00 83.32      A16S
ATOM    935  O2  C   A  48     150.870  75.898   3.655  1.00 83.32      A16S
ATOM    936  N3  C   A  48     150.062  76.791   5.582  1.00 83.32      A16S
ATOM    937  C4  C   A  48     149.135  76.760   6.544  1.00 83.32      A16S
ATOM    938  N4  C   A  48     149.213  77.667   7.518  1.00 83.32      A16S
ATOM    939  C5  C   A  48     148.088  75.800   6.547  1.00 83.32      A16S
ATOM    940  C2* C   A  48     149.648  72.687   3.718  1.00 46.58      A16S
ATOM    941  O2* C   A  48     150.913  72.625   3.080  1.00 46.58      A16S
ATOM    942  C3* C   A  48     148.649  71.597   3.303  1.00 46.58      A16S
ATOM    943  O3* C   A  48     148.817  70.706   2.190  1.00 46.58      A16S
ATOM    944  P   U   A  49     149.118  71.264   0.720  1.00 51.02      A16S
ATOM    945  O1P U   A  49     148.073  70.633  -0.141  1.00 55.90      A16S
ATOM    946  O2P U   A  49     149.306  72.742   0.713  1.00 55.90      A16S
ATOM    947  O5* U   A  49     150.495  70.577   0.345  1.00 51.02      A16S
ATOM    948  C5* U   A  49     150.506  69.180   0.111  1.00 51.02      A16S
ATOM    949  C4* U   A  49     151.865  68.601   0.344  1.00 51.02      A16S
ATOM    950  O4* U   A  49     152.429  69.036   1.607  1.00 51.02      A16S
ATOM    951  C1* U   A  49     152.699  67.911   2.412  1.00 51.02      A16S
ATOM    952  N1  U   A  49     152.477  68.271   3.818  1.00 55.90      A16S
ATOM    953  C6  U   A  49     151.356  68.944   4.220  1.00 55.90      A16S
ATOM    954  C2  U   A  49     153.452  67.911   4.724  1.00 55.90      A16S
ATOM    955  O2  U   A  49     154.458  67.294   4.409  1.00 55.90      A16S
ATOM    956  N3  U   A  49     153.208  68.296   6.015  1.00 55.90      A16S
ATOM    957  C4  U   A  49     152.114  68.987   6.480  1.00 55.90      A16S
ATOM    958  O4  U   A  49     152.079  69.340   7.659  1.00 55.90      A16S
ATOM    959  C5  U   A  49     151.147  69.305   5.484  1.00 55.90      A16S
ATOM    960  C2* U   A  49     151.790  66.801   1.901  1.00 51.02      A16S
ATOM    961  O2* U   A  49     152.275  65.516   2.228  1.00 51.02      A16S
ATOM    962  C3* U   A  49     151.773  67.095   0.408  1.00 51.02      A16S
ATOM    963  O3* U   A  49     152.870  66.567  -0.285  1.00 51.02      A16S
ATOM    964  P   A   A  50     152.608  65.824  -1.670  1.00 52.79      A16S
ATOM    965  O1P A   A  50     151.671  66.692  -2.415  1.00 57.53      A16S
ATOM    966  O2P A   A  50     153.918  65.481  -2.267  1.00 57.53      A16S
ATOM    967  O5* A   A  50     151.855  64.492  -1.229  1.00 52.79      A16S
ATOM    968  C5* A   A  50     150.760  63.970  -1.997  1.00 52.79      A16S
ATOM    969  C4* A   A  50     150.164  62.764  -1.304  1.00 52.79      A16S
ATOM    970  O4* A   A  50     151.203  61.762  -1.160  1.00 52.79      A16S
ATOM    971  C1* A   A  50     151.415  61.480   0.207  1.00 52.79      A16S
ATOM    972  N9  A   A  50     152.856  61.381   0.400  1.00 57.53      A16S
ATOM    973  C4  A   A  50     153.523  60.379   1.056  1.00 57.53      A16S
ATOM    974  N3  A   A  50     152.987  59.325   1.688  1.00 57.53      A16S
ATOM    975  C2  A   A  50     153.940  58.560   2.200  1.00 57.53      A16S
ATOM    976  N1  A   A  50     155.267  58.712   2.150  1.00 57.53      A16S
ATOM    977  C6  A   A  50     155.772  59.775   1.498  1.00 57.53      A16S
ATOM    978  N6  A   A  50     157.095  59.911   1.426  1.00 57.53      A16S
ATOM    979  C5  A   A  50     154.867  60.673   0.923  1.00 57.53      A16S
ATOM    980  N7  A   A  50     155.045  61.855   0.217  1.00 57.53      A16S
ATOM    981  C8  A   A  50     153.825  62.239  -0.062  1.00 57.53      A16S
ATOM    982  C2* A   A  50     150.759  62.605   1.009  1.00 52.79      A16S
ATOM    983  O2* A   A  50     150.321  62.142   2.270  1.00 52.79      A16S
ATOM    984  C3* A   A  50     149.607  63.015   0.095  1.00 52.79      A16S
ATOM    985  O3* A   A  50     148.477  62.166   0.301  1.00 52.79      A16S
ATOM    986  P   A   A  51     147.203  62.714   1.110  1.00 44.37      A16S
ATOM    987  O1P A   A  51     147.001  61.889   2.333  1.00 47.32      A16S
ATOM    988  O2P A   A  51     147.334  64.189   1.235  1.00 47.32      A16S
ATOM    989  O5* A   A  51     145.983  62.423   0.143  1.00 44.37      A16S
ATOM    990  C5* A   A  51     146.031  62.879  -1.189  1.00 44.37      A16S
ATOM    991  C4* A   A  51     145.544  61.809  -2.100  1.00 44.37      A16S
ATOM    992  O4* A   A  51     144.093  61.785  -2.086  1.00 44.37      A16S
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ATOM    993  C1* A   A  51     143.605  61.958  -3.401  1.00 44.37      A16S
ATOM    994  N9  A   A  51     142.318  62.655  -3.352  1.00 47.32      A16S
ATOM    995  C4  A   A  51     141.226  62.436  -4.161  1.00 47.32      A16S
ATOM    996  N3  A   A  51     141.112  61.558  -5.166  1.00 47.32      A16S
ATOM    997  C2  A   A  51     139.894  61.622  -5.711  1.00 47.32      A16S
ATOM    998  N1  A   A  51     138.861  62.402  -5.387  1.00 47.32      A16S
ATOM    999  C6  A   A  51     139.015  63.272  -4.371  1.00 47.32      A16S
ATOM   1000  N6  A   A  51     137.993  64.051  -4.035  1.00 47.32      A16S
ATOM   1001  C5  A   A  51     140.251  63.304  -3.718  1.00 47.32      A16S
ATOM   1002  N7  A   A  51     140.717  64.064  -2.663  1.00 47.32      A16S
ATOM   1003  C8  A   A  51     141.944  63.643  -2.486  1.00 47.32      A16S
ATOM   1004  C2* A   A  51     144.718  62.690  -4.145  1.00 44.37      A16S
ATOM   1005  O2* A   A  51     144.586  62.549  -5.540  1.00 44.37      A16S
ATOM   1006  C3* A   A  51     145.958  62.039  -3.537  1.00 44.37      A16S
ATOM   1007  O3* A   A  51     146.237  60.758  -4.088  1.00 44.37      A16S
ATOM   1008  P   G   A  52     147.752  60.220  -4.124  1.00 42.88      A16S
ATOM   1009  O1P G   A  52     147.706  58.815  -4.602  1.00 66.32      A16S
ATOM   1010  O2P G   A  52     148.582  61.219  -4.838  1.00 66.32      A16S
ATOM   1011  O5* G   A  52     148.232  60.205  -2.609  1.00 42.88      A16S
ATOM   1012  C5* G   A  52     147.722  59.228  -1.703  1.00 42.88      A16S
ATOM   1013  C4* G   A  52     148.775  58.192  -1.400  1.00 42.88      A16S
ATOM   1014  O4* G   A  52     149.780  58.744  -0.511  1.00 42.88      A16S
ATOM   1015  C1* G   A  52     150.179  57.762   0.436  1.00 42.88      A16S
ATOM   1016  N9  G   A  52     149.826  58.228   1.772  1.00 66.32      A16S
ATOM   1017  C4  G   A  52     150.300  57.727   2.950  1.00 66.32      A16S
ATOM   1018  N3  G   A  52     151.181  56.722   3.079  1.00 66.32      A16S
ATOM   1019  C2  G   A  52     151.444  56.456   4.345  1.00 66.32      A16S
ATOM   1020  N2  G   A  52     152.296  55.470   4.648  1.00 66.32      A16S
ATOM   1021  N1  G   A  52     150.890  57.135   5.401  1.00 66.32      A16S
ATOM   1022  C6  G   A  52     149.984  58.181   5.284  1.00 66.32      A16S
ATOM   1023  O6  G   A  52     149.555  58.739   6.293  1.00 66.32      A16S
ATOM   1024  C5  G   A  52     149.685  58.462   3.935  1.00 66.32      A16S
ATOM   1025  N7  G   A  52     148.833  59.405   3.386  1.00 66.32      A16S
ATOM   1026  C8  G   A  52     148.953  59.233   2.101  1.00 66.32      A16S
ATOM   1027  C2* G   A  52     149.443  56.473   0.098  1.00 42.88      A16S
ATOM   1028  O2* G   A  52     150.245  55.692  -0.754  1.00 42.88      A16S
ATOM   1029  C3* G   A  52     148.228  57.006  -0.634  1.00 42.88      A16S
ATOM   1030  O3* G   A  52     147.678  56.055  -1.510  1.00 42.88      A16S
ATOM   1031  P   A   A  53     146.662  54.973  -0.935  1.00 45.24      A16S
ATOM   1032  O1P A   A  53     146.421  54.008  -2.038  1.00 56.93      A16S
ATOM   1033  O2P A   A  53     145.502  55.637  -0.271  1.00 56.93      A16S
ATOM   1034  O5* A   A  53     147.536  54.272   0.187  1.00 45.24      A16S
ATOM   1035  C5* A   A  53     148.536  53.307  -0.159  1.00 45.24      A16S
ATOM   1036  C4* A   A  53     148.970  52.573   1.072  1.00 45.24      A16S
ATOM   1037  O4* A   A  53     149.624  53.509   1.962  1.00 45.24      A16S
ATOM   1038  C1* A   A  53     149.343  53.170   3.307  1.00 45.24      A16S
ATOM   1039  N9  A   A  53     148.710  54.319   3.952  1.00 56.93      A16S
ATOM   1040  C4  A   A  53     148.699  54.590   5.298  1.00 56.93      A16S
ATOM   1041  N3  A   A  53     149.279  53.883   6.277  1.00 56.93      A16S
ATOM   1042  C2  A   A  53     149.047  54.444   7.457  1.00 56.93      A16S
ATOM   1043  N1  A   A  53     148.351  55.535   7.748  1.00 56.93      A16S
ATOM   1044  C6  A   A  53     147.774  56.212   6.742  1.00 56.93      A16S
ATOM   1045  N6  A   A  53     147.052  57.287   7.033  1.00 56.93      A16S
ATOM   1046  C5  A   A  53     147.959  55.738   5.445  1.00 56.93      A16S
ATOM   1047  N7  A   A  53     147.533  56.205   4.216  1.00 56.93      A16S
ATOM   1048  C8  A   A  53     148.004  55.329   3.365  1.00 56.93      A16S
ATOM   1049  C2* A   A  53     148.466  51.921   3.289  1.00 45.24      A16S
ATOM   1050  O2* A   A  53     149.291  50.779   3.371  1.00 45.24      A16S
ATOM   1051  C3* A   A  53     147.837  52.016   1.910  1.00 45.24      A16S
ATOM   1052  O3* A   A  53     147.378  50.773   1.425  1.00 45.24      A16S
ATOM   1053  P   C   A  54     145.976  50.198   1.945  1.00 44.15      A16S
ATOM   1054  O1P C   A  54     145.919  48.819   1.407  1.00 52.17      A16S
ATOM   1055  O2P C   A  54     144.867  51.143   1.664  1.00 52.17      A16S
ATOM   1056  O5* C   A  54     146.198  50.132   3.514  1.00 44.15      A16S
ATOM   1057  C5* C   A  54     145.114  50.178   4.442  1.00 44.15      A16S
ATOM   1058  C4* C   A  54     145.679  50.201   5.835  1.00 44.15      A16S
ATOM   1059  O4* C   A  54     146.453  51.415   6.014  1.00 44.15      A16S
ATOM   1060  C1* C   A  54     146.354  51.844   7.359  1.00 44.15      A16S
ATOM   1061  N1  C   A  54     145.711  53.180   7.396  1.00 52.17      A16S
ATOM   1062  C6  C   A  54     145.002  53.650   6.329  1.00 52.17      A16S
ATOM   1063  C2  C   A  54     145.826  53.961   8.564  1.00 52.17      A16S
ATOM   1064  O2  C   A  54     146.495  53.532   9.523  1.00 52.17      A16S
ATOM   1065  N3  C   A  54     145.204  55.162   8.615  1.00 52.17      A16S
ATOM   1066  C4  C   A  54     144.502  55.593   7.570  1.00 52.17      A16S
ATOM   1067  N4  C   A  54     143.895  56.759   7.674  1.00 52.17      A16S
ATOM   1068  C5  C   A  54     144.390  54.838   6.375  1.00 52.17      A16S
ATOM   1069  C2* C   A  54     145.540  50.789   8.114  1.00 44.15      A16S
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ATOM   1070  O2* C   A  54      146.432  49.839   8.662  1.00 44.15      A16S
ATOM   1071  C3* C   A  54      144.704  50.181   6.997  1.00 44.15      A16S
ATOM   1072  O3* C   A  54      144.309  48.845   7.304  1.00 44.15      A16S
ATOM   1073  P   A   A  55      143.316  48.564   8.537  1.00 51.45      A16S
ATOM   1074  O1P A   A  55      142.553  47.315   8.236  1.00 66.66      A16S
ATOM   1075  O2P A   A  55      142.580  49.814   8.856  1.00 66.66      A16S
ATOM   1076  O5* A   A  55      144.303  48.291   9.755  1.00 51.45      A16S
ATOM   1077  C5* A   A  55      145.108  47.098   9.810  1.00 51.45      A16S
ATOM   1078  C4* A   A  55      145.364  46.714  11.245  1.00 51.45      A16S
ATOM   1079  O4* A   A  55      146.184  47.723  11.877  1.00 51.45      A16S
ATOM   1080  C1* A   A  55      145.767  47.903  13.218  1.00 51.45      A16S
ATOM   1081  N9  A   A  55      145.486  49.321  13.441  1.00 66.66      A16S
ATOM   1082  C4  A   A  55      145.061  49.872  14.624  1.00 66.66      A16S
ATOM   1083  N3  A   A  55      144.795  49.227  15.774  1.00 66.66      A16S
ATOM   1084  C2  A   A  55      144.416  50.083  16.715  1.00 66.66      A16S
ATOM   1085  N1  A   A  55      144.286  51.408  16.648  1.00 66.66      A16S
ATOM   1086  C6  A   A  55      144.564  52.025  15.481  1.00 66.66      A16S
ATOM   1087  N6  A   A  55      144.452  53.353  15.423  1.00 66.66      A16S
ATOM   1088  C5  A   A  55      144.966  51.226  14.397  1.00 66.66      A16S
ATOM   1089  N7  A   A  55      145.303  51.527  13.086  1.00 66.66      A16S
ATOM   1090  C8  A   A  55      145.601  50.366  12.563  1.00 66.66      A16S
ATOM   1091  C2* A   A  55      144.578  46.976  13.491  1.00 51.45      A16S
ATOM   1092  O2* A   A  55      144.986  45.848  14.227  1.00 51.45      A16S
ATOM   1093  C3* A   A  55      144.104  46.640  12.083  1.00 51.45      A16S
ATOM   1094  O3* A   A  55      143.540  45.345  12.023  1.00 51.45      A16S
ATOM   1095  P   U   A  56      141.983  45.159  12.321  1.00 54.58      A16S
ATOM   1096  O1P U   A  56      141.742  43.720  12.578  1.00 79.14      A16S
ATOM   1097  O2P U   A  56      141.236  45.847  11.231  1.00 79.14      A16S
ATOM   1098  O5* U   A  56      141.768  45.963  13.680  1.00 54.58      A16S
ATOM   1099  C5* U   A  56      142.046  45.362  14.952  1.00 54.58      A16S
ATOM   1100  C4* U   A  56      141.518  46.231  16.062  1.00 54.58      A16S
ATOM   1101  O4* U   A  56      142.320  47.437  16.142  1.00 54.58      A16S
ATOM   1102  C1* U   A  56      141.491  48.536  16.502  1.00 54.58      A16S
ATOM   1103  N1  U   A  56      141.583  49.569  15.455  1.00 79.14      A16S
ATOM   1104  C6  U   A  56      142.000  49.268  14.182  1.00 79.14      A16S
ATOM   1105  C2  U   A  56      141.233  50.863  15.794  1.00 79.14      A16S
ATOM   1106  O2  U   A  56      140.851  51.178  16.905  1.00 79.14      A16S
ATOM   1107  N3  U   A  56      141.343  51.776  14.783  1.00 79.14      A16S
ATOM   1108  C4  U   A  56      141.753  51.542  13.495  1.00 79.14      A16S
ATOM   1109  O4  U   A  56      141.790  52.477  12.691  1.00 79.14      A16S
ATOM   1110  C5  U   A  56      142.094  50.184  13.219  1.00 79.14      A16S
ATOM   1111  C2* U   A  56      140.066  48.010  16.701  1.00 54.58      A16S
ATOM   1112  O2* U   A  56      139.816  47.811  18.079  1.00 54.58      A16S
ATOM   1113  C3* U   A  56      140.090  46.723  15.884  1.00 54.58      A16S
ATOM   1114  O3* U   A  56      139.120  45.785  16.321  1.00 54.58      A16S
ATOM   1115  P   G   A  57      137.644  45.819  15.678  1.00 58.02      A16S
ATOM   1116  O1P G   A  57      136.957  44.534  15.963  1.00 65.54      A16S
ATOM   1117  O2P G   A  57      137.764  46.279  14.273  1.00 65.54      A16S
ATOM   1118  O5* G   A  57      136.889  46.943  16.513  1.00 58.02      A16S
ATOM   1119  C5* G   A  57      136.664  46.779  17.922  1.00 58.02      A16S
ATOM   1120  C4* G   A  57      136.089  48.040  18.510  1.00 58.02      A16S
ATOM   1121  O4* G   A  57      137.084  49.099  18.451  1.00 58.02      A16S
ATOM   1122  C1* G   A  57      136.456  50.328  18.121  1.00 58.02      A16S
ATOM   1123  N9  G   A  57      136.953  50.760  16.812  1.00 65.54      A16S
ATOM   1124  C4  G   A  57      137.013  52.051  16.326  1.00 65.54      A16S
ATOM   1125  N3  G   A  57      136.645  53.171  16.983  1.00 65.54      A16S
ATOM   1126  C2  G   A  57      136.838  54.259  16.251  1.00 65.54      A16S
ATOM   1127  N2  G   A  57      136.563  55.464  16.758  1.00 65.54      A16S
ATOM   1128  N1  G   A  57      137.324  54.247  14.976  1.00 65.54      A16S
ATOM   1129  C6  G   A  57      137.702  53.114  14.279  1.00 65.54      A16S
ATOM   1130  O6  G   A  57      138.130  53.221  13.131  1.00 65.54      A16S
ATOM   1131  C5  G   A  57      137.523  51.938  15.053  1.00 65.54      A16S
ATOM   1132  N7  G   A  57      137.789  50.612  14.745  1.00 65.54      A16S
ATOM   1133  C8  G   A  57      137.437  49.953  15.813  1.00 65.54      A16S
ATOM   1134  C2* G   A  57      134.948  50.068  18.096  1.00 58.02      A16S
ATOM   1135  O2* G   A  57      134.381  50.314  19.364  1.00 58.02      A16S
ATOM   1136  C3* G   A  57      134.897  48.590  17.754  1.00 58.02      A16S
ATOM   1137  O3* G   A  57      133.669  47.982  18.117  1.00 58.02      A16S
ATOM   1138  P   C   A  58      132.504  47.837  17.009  1.00 66.12      A16S
ATOM   1139  O1P C   A  58      131.413  47.023  17.605  1.00 68.98      A16S
ATOM   1140  O2P C   A  58      133.112  47.408  15.719  1.00 68.98      A16S
ATOM   1141  O5* C   A  58      131.947  49.320  16.836  1.00 66.12      A16S
ATOM   1142  C5* C   A  58      131.238  49.952  17.911  1.00 66.12      A16S
ATOM   1143  C4* C   A  58      131.161  51.444  17.701  1.00 66.12      A16S
ATOM   1144  O4* C   A  58      132.496  52.019  17.684  1.00 66.12      A16S
ATOM   1145  C1* C   A  58      132.517  53.145  16.821  1.00 66.12      A16S
ATOM   1146  N1  C   A  58      133.348  52.827  15.650  1.00 68.98      A16S
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ATOM   1147  C6  C   A  58     133.637  51.532  15.330  1.00 68.98      A16S
ATOM   1148  C2  C   A  58     133.801  53.870  14.837  1.00 68.98      A16S
ATOM   1149  O2  C   A  58     133.570  55.039  15.166  1.00 68.98      A16S
ATOM   1150  N3  C   A  58     134.474  53.577  13.711  1.00 68.98      A16S
ATOM   1151  C4  C   A  58     134.700  52.308  13.383  1.00 68.98      A16S
ATOM   1152  N4  C   A  58     135.308  52.066  12.234  1.00 68.98      A16S
ATOM   1153  C5  C   A  58     134.299  51.232  14.214  1.00 68.98      A16S
ATOM   1154  C2* C   A  58     131.086  53.355  16.337  1.00 66.12      A16S
ATOM   1155  O2* C   A  58     130.404  54.205  17.239  1.00 66.12      A16S
ATOM   1156  C3* C   A  58     130.540  51.941  16.408  1.00 66.12      A16S
ATOM   1157  O3* C   A  58     129.132  51.958  16.436  1.00 66.12      A16S
ATOM   1158  P   A   A  59     128.315  51.868  15.054  1.00 51.72      A16S
ATOM   1159  O1P A   A  59     126.868  51.939  15.430  1.00 85.21      A16S
ATOM   1160  O2P A   A  59     128.812  50.700  14.280  1.00 85.21      A16S
ATOM   1161  O5* A   A  59     128.690  53.200  14.259  1.00 51.72      A16S
ATOM   1162  C5* A   A  59     128.260  54.475  14.753  1.00 51.72      A16S
ATOM   1163  C4* A   A  59     128.515  55.561  13.742  1.00 51.72      A16S
ATOM   1164  O4* A   A  59     129.929  55.609  13.432  1.00 51.72      A16S
ATOM   1165  C1* A   A  59     130.113  56.011  12.086  1.00 51.72      A16S
ATOM   1166  N9  A   A  59     130.842  54.955  11.371  1.00 85.21      A16S
ATOM   1167  C4  A   A  59     131.157  54.964  10.034  1.00 85.21      A16S
ATOM   1168  N3  A   A  59     130.862  55.916   9.138  1.00 85.21      A16S
ATOM   1169  C2  A   A  59     131.325  55.589   7.939  1.00 85.21      A16S
ATOM   1170  N1  A   A  59     131.998  54.503   7.560  1.00 85.21      A16S
ATOM   1171  C6  A   A  59     132.275  53.564   8.483  1.00 85.21      A16S
ATOM   1172  N6  A   A  59     132.945  52.480   8.099  1.00 85.21      A16S
ATOM   1173  C5  A   A  59     131.839  53.790   9.797  1.00 85.21      A16S
ATOM   1174  N7  A   A  59     131.954  53.044  10.960  1.00 85.21      A16S
ATOM   1175  C8  A   A  59     131.348  53.775  11.862  1.00 85.21      A16S
ATOM   1176  C2* A   A  59     128.726  56.290  11.503  1.00 51.72      A16S
ATOM   1177  O2* A   A  59     128.465  57.672  11.628  1.00 51.72      A16S
ATOM   1178  C3* A   A  59     127.826  55.440  12.396  1.00 51.72      A16S
ATOM   1179  O3* A   A  59     126.496  55.942  12.448  1.00 51.72      A16S
ATOM   1180  P   A   A  60     125.556  55.847  11.150  1.00 44.40      A16S
ATOM   1181  O1P A   A  60     126.294  56.416   9.997  1.00 45.56      A16S
ATOM   1182  O2P A   A  60     124.200  56.351  11.474  1.00 45.56      A16S
ATOM   1183  O5* A   A  60     125.405  54.293  10.889  1.00 44.40      A16S
ATOM   1184  C5* A   A  60     124.771  53.458  11.856  1.00 44.40      A16S
ATOM   1185  C4* A   A  60     123.749  52.584  11.185  1.00 44.40      A16S
ATOM   1186  O4* A   A  60     122.670  53.409  10.704  1.00 44.40      A16S
ATOM   1187  C1* A   A  60     122.352  53.067   9.371  1.00 44.40      A16S
ATOM   1188  N9  A   A  60     121.980  54.296   8.675  1.00 45.56      A16S
ATOM   1189  C4  A   A  60     120.752  54.560   8.128  1.00 45.56      A16S
ATOM   1190  N3  A   A  60     119.688  53.743   8.084  1.00 45.56      A16S
ATOM   1191  C2  A   A  60     118.650  54.351   7.515  1.00 45.56      A16S
ATOM   1192  N1  A   A  60     118.566  55.582   7.018  1.00 45.56      A16S
ATOM   1193  C6  A   A  60     119.661  56.372   7.062  1.00 45.56      A16S
ATOM   1194  N6  A   A  60     119.585  57.597   6.538  1.00 45.56      A16S
ATOM   1195  C5  A   A  60     120.823  55.849   7.653  1.00 45.56      A16S
ATOM   1196  N7  A   A  60     122.082  56.382   7.867  1.00 45.56      A16S
ATOM   1197  C8  A   A  60     122.731  55.420   8.466  1.00 45.56      A16S
ATOM   1198  C2* A   A  60     123.568  52.387   8.764  1.00 44.40      A16S
ATOM   1199  O2* A   A  60     123.069  51.402   7.904  1.00 44.40      A16S
ATOM   1200  C3* A   A  60     124.238  51.790   9.988  1.00 44.40      A16S
ATOM   1201  O3* A   A  60     124.550  50.397  10.139  1.00 44.40      A16S
ATOM   1202  P   G   A  61     123.440  49.344  10.663  1.00 47.93      A16S
ATOM   1203  O1P G   A  61     124.281  48.222  11.169  1.00 38.25      A16S
ATOM   1204  O2P G   A  61     122.404  49.073   9.612  1.00 38.25      A16S
ATOM   1205  O5* G   A  61     122.777  50.052  11.934  1.00 47.93      A16S
ATOM   1206  C5* G   A  61     121.516  49.612  12.461  1.00 47.93      A16S
ATOM   1207  C4* G   A  61     120.513  50.735  12.402  1.00 47.93      A16S
ATOM   1208  O4* G   A  61     120.328  51.147  11.025  1.00 47.93      A16S
ATOM   1209  C1* G   A  61     118.972  51.505  10.808  1.00 47.93      A16S
ATOM   1210  N9  G   A  61     118.411  50.597   9.809  1.00 38.25      A16S
ATOM   1211  C4  G   A  61     117.255  50.772   9.083  1.00 38.25      A16S
ATOM   1212  N3  G   A  61     116.431  51.834   9.139  1.00 38.25      A16S
ATOM   1213  C2  G   A  61     115.410  51.706   8.303  1.00 38.25      A16S
ATOM   1214  N2  G   A  61     114.479  52.671   8.207  1.00 38.25      A16S
ATOM   1215  N1  G   A  61     115.217  50.625   7.495  1.00 38.25      A16S
ATOM   1216  C6  G   A  61     116.050  49.523   7.434  1.00 38.25      A16S
ATOM   1217  O6  G   A  61     115.779  48.592   6.682  1.00 38.25      A16S
ATOM   1218  C5  G   A  61     117.144  49.647   8.303  1.00 38.25      A16S
ATOM   1219  N7  G   A  61     118.204  48.787   8.523  1.00 38.25      A16S
ATOM   1220  C8  G   A  61     118.929  49.391   9.419  1.00 38.25      A16S
ATOM   1221  C2* G   A  61     118.247  51.383  12.147  1.00 47.93      A16S
ATOM   1222  O2* G   A  61     118.225  52.632  12.807  1.00 47.93      A16S
ATOM   1223  C3* G   A  61     119.119  50.379  12.874  1.00 47.93      A16S
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ATOM   1224  O3*  G   A  61     118.993  50.520  14.269  1.00 47.93      A16S
ATOM   1225  P    U   A  62     118.153  49.435  15.100  1.00 32.19      A16S
ATOM   1226  O1P  U   A  62     118.258  48.107  14.438  1.00 49.67      A16S
ATOM   1227  O2P  U   A  62     118.539  49.572  16.529  1.00 49.67      A16S
ATOM   1228  O5*  U   A  62     116.637  49.861  14.892  1.00 32.19      A16S
ATOM   1229  C5*  U   A  62     116.212  51.189  15.097  1.00 32.19      A16S
ATOM   1230  C4*  U   A  62     114.946  51.409  14.344  1.00 32.19      A16S
ATOM   1231  O4*  U   A  62     115.208  51.304  12.932  1.00 32.19      A16S
ATOM   1232  C1*  U   A  62     114.090  50.743  12.282  1.00 32.19      A16S
ATOM   1233  N1   U   A  62     114.538  49.582  11.508  1.00 49.67      A16S
ATOM   1234  C6   U   A  62     115.701  48.912  11.818  1.00 49.67      A16S
ATOM   1235  C2   U   A  62     113.744  49.183  10.454  1.00 49.67      A16S
ATOM   1236  O2   U   A  62     112.716  49.764  10.137  1.00 49.67      A16S
ATOM   1237  N3   U   A  62     114.199  48.082   9.782  1.00 49.67      A16S
ATOM   1238  C4   U   A  62     115.339  47.366  10.043  1.00 49.67      A16S
ATOM   1239  O4   U   A  62     115.599  46.387   9.352  1.00 49.67      A16S
ATOM   1240  C5   U   A  62     116.116  47.850  11.138  1.00 49.67      A16S
ATOM   1241  C2*  U   A  62     113.051  50.395  13.340  1.00 32.19      A16S
ATOM   1242  O2*  U   A  62     112.087  51.413  13.363  1.00 32.19      A16S
ATOM   1243  C3*  U   A  62     113.897  50.359  14.600  1.00 32.19      A16S
ATOM   1244  O3*  U   A  62     113.173  50.719  15.747  1.00 32.19      A16S
ATOM   1245  P    C   A  63     112.143  49.681  16.388  1.00 41.09      A16S
ATOM   1246  O1P  C   A  63     112.571  48.310  16.052  1.00 40.80      A16S
ATOM   1247  O2P  C   A  63     111.933  50.050  17.812  1.00 40.80      A16S
ATOM   1248  O5*  C   A  63     110.828  49.954  15.559  1.00 41.09      A16S
ATOM   1249  C5*  C   A  63     109.808  49.014  15.611  1.00 41.09      A16S
ATOM   1250  C4*  C   A  63     108.929  49.106  14.409  1.00 41.09      A16S
ATOM   1251  O4*  C   A  63     109.681  49.193  13.176  1.00 41.09      A16S
ATOM   1252  C1*  C   A  63     109.058  48.384  12.187  1.00 41.09      A16S
ATOM   1253  N1   C   A  63     110.074  47.491  11.593  1.00 40.80      A16S
ATOM   1254  C6   C   A  63     111.243  47.225  12.248  1.00 40.80      A16S
ATOM   1255  C2   C   A  63     109.831  46.924  10.329  1.00 40.80      A16S
ATOM   1256  O2   C   A  63     108.756  47.152   9.768  1.00 40.80      A16S
ATOM   1257  N3   C   A  63     110.772  46.139   9.761  1.00 40.80      A16S
ATOM   1258  C4   C   A  63     111.912  45.896  10.410  1.00 40.80      A16S
ATOM   1259  N4   C   A  63     112.819  45.116   9.817  1.00 40.80      A16S
ATOM   1260  C5   C   A  63     112.178  46.442  11.700  1.00 40.80      A16S
ATOM   1261  C2*  C   A  63     107.853  47.679  12.825  1.00 41.09      A16S
ATOM   1262  O2*  C   A  63     106.635  48.284  12.429  1.00 41.09      A16S
ATOM   1263  C3*  C   A  63     108.170  47.812  14.312  1.00 41.09      A16S
ATOM   1264  O3*  C   A  63     107.096  47.872  15.234  1.00 41.09      A16S
ATOM   1265  P    G   A  64     107.122  46.917  16.528  1.00 54.93      A16S
ATOM   1266  O1P  G   A  64     105.982  47.342  17.365  1.00 33.15      A16S
ATOM   1267  O2P  G   A  64     108.482  46.885  17.121  1.00 33.15      A16S
ATOM   1268  O5*  G   A  64     106.761  45.498  15.896  1.00 54.93      A16S
ATOM   1269  C5*  G   A  64     105.587  45.347  15.046  1.00 54.93      A16S
ATOM   1270  C4*  G   A  64     104.764  44.159  15.498  1.00 54.93      A16S
ATOM   1271  O4*  G   A  64     105.435  42.930  15.119  1.00 54.93      A16S
ATOM   1272  C1*  G   A  64     105.665  42.152  16.267  1.00 54.93      A16S
ATOM   1273  N9   G   A  64     106.905  41.424  16.072  1.00 33.15      A16S
ATOM   1274  C4   G   A  64     107.035  40.298  15.304  1.00 33.15      A16S
ATOM   1275  N3   G   A  64     106.039  39.689  14.619  1.00 33.15      A16S
ATOM   1276  C2   G   A  64     106.473  38.639  13.953  1.00 33.15      A16S
ATOM   1277  N2   G   A  64     105.610  37.919  13.214  1.00 33.15      A16S
ATOM   1278  N1   G   A  64     107.778  38.222  13.961  1.00 33.15      A16S
ATOM   1279  C6   G   A  64     108.809  38.832  14.662  1.00 33.15      A16S
ATOM   1280  O6   G   A  64     109.944  38.378  14.597  1.00 33.15      A16S
ATOM   1281  C5   G   A  64     108.362  39.953  15.380  1.00 33.15      A16S
ATOM   1282  N7   G   A  64     109.056  40.839  16.194  1.00 33.15      A16S
ATOM   1283  C8   G   A  64     108.148  41.695  16.584  1.00 33.15      A16S
ATOM   1284  C2*  G   A  64     105.635  43.109  17.450  1.00 54.93      A16S
ATOM   1285  O2*  G   A  64     105.315  42.432  18.639  1.00 54.93      A16S
ATOM   1286  C3*  G   A  64     104.547  44.077  17.009  1.00 54.93      A16S
ATOM   1287  O3*  G   A  64     103.270  43.510  17.304  1.00 54.93      A16S
ATOM   1288  P    U   A  65     102.095  44.448  17.851  1.00 62.13      A16S
ATOM   1289  O1P  U   A  65     100.956  43.578  18.232  1.00 84.38      A16S
ATOM   1290  O2P  U   A  65     102.674  45.385  18.851  1.00 84.38      A16S
ATOM   1291  O5*  U   A  65     101.655  45.267  16.565  1.00 62.13      A16S
ATOM   1292  C5*  U   A  65     101.017  44.600  15.471  1.00 62.13      A16S
ATOM   1293  C4*  U   A  65     100.685  45.586  14.386  1.00 62.13      A16S
ATOM   1294  O4*  U   A  65      99.645  46.499  14.835  1.00 62.13      A16S
ATOM   1295  C1*  U   A  65     100.089  47.824  14.657  1.00 62.13      A16S
ATOM   1296  N1   U   A  65      99.454  48.702  15.649  1.00 84.38      A16S
ATOM   1297  C6   U   A  65      99.744  48.631  16.989  1.00 84.38      A16S
ATOM   1298  C2   U   A  65      98.549  49.628  15.167  1.00 84.38      A16S
ATOM   1299  O2   U   A  65      98.247  49.708  13.981  1.00 84.38      A16S
ATOM   1300  N3   U   A  65      98.007  50.456  16.114  1.00 84.38      A16S
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ATOM   1301  C4  U   A  65      98.265  50.451  17.460  1.00 84.38      A16S
ATOM   1302  O4  U   A  65      97.748  51.310  18.173  1.00 84.38      A16S
ATOM   1303  C5  U   A  65      99.194  49.451  17.886  1.00 84.38      A16S
ATOM   1304  C2* U   A  65     101.613  47.762  14.683  1.00 62.13      A16S
ATOM   1305  O2* U   A  65     102.169  48.895  14.037  1.00 62.13      A16S
ATOM   1306  C3* U   A  65     101.858  46.450  13.944  1.00 62.13      A16S
ATOM   1307  O3* U   A  65     101.729  46.681  12.548  1.00 62.13      A16S
ATOM   1308  P   G   A  66     102.802  46.066  11.532  1.00 45.72      A16S
ATOM   1309  O1P G   A  66     103.954  45.490  12.293  1.00 46.13      A16S
ATOM   1310  O2P G   A  66     103.044  47.120  10.508  1.00 46.13      A16S
ATOM   1311  O5* G   A  66     102.014  44.870  10.857  1.00 45.72      A16S
ATOM   1312  C5* G   A  66     100.813  45.108  10.126  1.00 45.72      A16S
ATOM   1313  C4* G   A  66     100.873  44.358   8.836  1.00 45.72      A16S
ATOM   1314  O4* G   A  66     102.029  44.843   8.113  1.00 45.72      A16S
ATOM   1315  C1* G   A  66     102.691  43.761   7.476  1.00 45.72      A16S
ATOM   1316  N9  G   A  66     104.022  43.624   8.060  1.00 46.13      A16S
ATOM   1317  C4  G   A  66     104.932  42.630   7.790  1.00 46.13      A16S
ATOM   1318  N3  G   A  66     104.749  41.599   6.945  1.00 46.13      A16S
ATOM   1319  C2  G   A  66     105.815  40.812   6.890  1.00 46.13      A16S
ATOM   1320  N2  G   A  66     105.814  39.742   6.088  1.00 46.13      A16S
ATOM   1321  N1  G   A  66     106.960  41.017   7.611  1.00 46.13      A16S
ATOM   1322  C6  G   A  66     107.171  42.066   8.489  1.00 46.13      A16S
ATOM   1323  O6  G   A  66     108.249  42.155   9.089  1.00 46.13      A16S
ATOM   1324  C5  G   A  66     106.038  42.926   8.557  1.00 46.13      A16S
ATOM   1325  N7  G   A  66     105.828  44.080   9.301  1.00 46.13      A16S
ATOM   1326  C8  G   A  66     104.619  44.456   8.978  1.00 46.13      A16S
ATOM   1327  C2* G   A  66     101.847  42.519   7.713  1.00 45.72      A16S
ATOM   1328  O2* G   A  66     100.904  42.386   6.676  1.00 45.72      A16S
ATOM   1329  C3* G   A  66     101.163  42.880   9.012  1.00 45.72      A16S
ATOM   1330  O3* G   A  66     100.021  42.094   9.265  1.00 45.72      A16S
ATOM   1331  P   C   A  67     100.138  40.865  10.295  1.00 44.87      A16S
ATOM   1332  O1P C   A  67      98.749  40.310  10.452  1.00 17.34      A16S
ATOM   1333  O2P C   A  67     100.900  41.326  11.485  1.00 17.34      A16S
ATOM   1334  O5* C   A  67     101.055  39.788   9.565  1.00 44.87      A16S
ATOM   1335  C5* C   A  67     100.575  39.089   8.422  1.00 44.87      A16S
ATOM   1336  C4* C   A  67     101.567  38.049   7.986  1.00 44.87      A16S
ATOM   1337  O4* C   A  67     102.843  38.663   7.688  1.00 44.87      A16S
ATOM   1338  C1* C   A  67     103.881  37.722   7.896  1.00 44.87      A16S
ATOM   1339  N1  C   A  67     104.863  38.270   8.839  1.00 17.34      A16S
ATOM   1340  C6  C   A  67     104.581  39.362   9.615  1.00 17.34      A16S
ATOM   1341  C2  C   A  67     106.117  37.641   8.931  1.00 17.34      A16S
ATOM   1342  O2  C   A  67     106.345  36.648   8.215  1.00 17.34      A16S
ATOM   1343  N3  C   A  67     107.042  38.128   9.796  1.00 17.34      A16S
ATOM   1344  C4  C   A  67     106.748  39.186  10.556  1.00 17.34      A16S
ATOM   1345  N4  C   A  67     107.674  39.609  11.417  1.00 17.34      A16S
ATOM   1346  C5  C   A  67     105.484  39.850  10.475  1.00 17.34      A16S
ATOM   1347  C2* C   A  67     103.241  36.443   8.415  1.00 44.87      A16S
ATOM   1348  O2* C   A  67     103.022  35.597   7.304  1.00 44.87      A16S
ATOM   1349  C3* C   A  67     101.935  36.975   8.986  1.00 44.87      A16S
ATOM   1350  O3* C   A  67     100.948  35.972   9.045  1.00 44.87      A16S
ATOM   1351  P   G   A  68     100.769  35.125  10.390  1.00 53.85      A16S
ATOM   1352  O1P G   A  68      99.339  34.697  10.344  1.00 33.96      A16S
ATOM   1353  O2P G   A  68     101.276  35.905  11.549  1.00 33.96      A16S
ATOM   1354  O5* G   A  68     101.751  33.891  10.187  1.00 53.85      A16S
ATOM   1355  C5* G   A  68     101.598  33.016   9.059  1.00 53.85      A16S
ATOM   1356  C4* G   A  68     102.822  32.154   8.893  1.00 53.85      A16S
ATOM   1357  O4* G   A  68     103.932  32.949   8.401  1.00 53.85      A16S
ATOM   1358  C1* G   A  68     105.145  32.503   8.987  1.00 53.85      A16S
ATOM   1359  N9  G   A  68     105.641  33.555   9.875  1.00 33.96      A16S
ATOM   1360  C4  G   A  68     106.946  33.763  10.247  1.00 33.96      A16S
ATOM   1361  N3  G   A  68     108.006  33.057   9.826  1.00 33.96      A16S
ATOM   1362  C2  G   A  68     109.127  33.464  10.400  1.00 33.96      A16S
ATOM   1363  N2  G   A  68     110.291  32.861  10.098  1.00 33.96      A16S
ATOM   1364  N1  G   A  68     109.197  34.485  11.312  1.00 33.96      A16S
ATOM   1365  C6  G   A  68     108.114  35.225  11.757  1.00 33.96      A16S
ATOM   1366  O6  G   A  68     108.282  36.108  12.592  1.00 33.96      A16S
ATOM   1367  C5  G   A  68     106.910  34.808  11.149  1.00 33.96      A16S
ATOM   1368  N7  G   A  68     105.614  35.274  11.315  1.00 33.96      A16S
ATOM   1369  C8  G   A  68     104.895  34.509  10.538  1.00 33.96      A16S
ATOM   1370  C2* G   A  68     104.809  31.248   9.786  1.00 53.85      A16S
ATOM   1371  O2* G   A  68     104.950  30.115   8.949  1.00 53.85      A16S
ATOM   1372  C3* G   A  68     103.357  31.516  10.161  1.00 53.85      A16S
ATOM   1373  O3* G   A  68     102.627  30.356  10.530  1.00 53.85      A16S
ATOM   1374  P   G   A  69     103.019  29.567  11.868  1.00 53.32      A16S
ATOM   1375  O1P G   A  69     102.009  28.487  11.940  1.00 41.82      A16S
ATOM   1376  O2P G   A  69     103.156  30.507  13.001  1.00 41.82      A16S
ATOM   1377  O5* G   A  69     104.471  28.985  11.522  1.00 53.32      A16S
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ATOM   1378  C5* G   A  69      105.470  28.759  12.543  1.00 53.32      A16S
ATOM   1379  C4* G   A  69      106.861  28.761  11.936  1.00 53.32      A16S
ATOM   1380  O4* G   A  69      107.201  30.112  11.523  1.00 53.32      A16S
ATOM   1381  C1* G   A  69      108.576  30.373  11.783  1.00 53.32      A16S
ATOM   1382  N9  G   A  69      108.661  31.447  12.770  1.00 41.82      A16S
ATOM   1383  C4  G   A  69      109.788  31.882  13.424  1.00 41.82      A16S
ATOM   1384  N3  G   A  69      111.039  31.419  13.240  1.00 41.82      A16S
ATOM   1385  C2  G   A  69      111.912  32.032  14.026  1.00 41.82      A16S
ATOM   1386  N2  G   A  69      113.212  31.713  13.954  1.00 41.82      A16S
ATOM   1387  N1  G   A  69      111.572  33.005  14.937  1.00 41.82      A16S
ATOM   1388  C6  G   A  69      110.280  33.485  15.148  1.00 41.82      A16S
ATOM   1389  O6  G   A  69      110.065  34.353  16.012  1.00 41.82      A16S
ATOM   1390  C5  G   A  69      109.351  32.858  14.292  1.00 41.82      A16S
ATOM   1391  N7  G   A  69      107.986  33.056  14.166  1.00 41.82      A16S
ATOM   1392  C8  G   A  69      107.620  32.203  13.250  1.00 41.82      A16S
ATOM   1393  C2* G   A  69      109.199  29.082  12.306  1.00 53.32      A16S
ATOM   1394  O2* G   A  69      109.814  28.405  11.223  1.00 53.32      A16S
ATOM   1395  C3* G   A  69      107.983  28.370  12.891  1.00 53.32      A16S
ATOM   1396  O3* G   A  69      108.152  26.956  12.950  1.00 53.32      A16S
ATOM   1397  P   G   A  70      108.254  26.220  14.382  1.00 60.36      A16S
ATOM   1398  O1P G   A  70      107.853  24.819  14.123  1.00 47.70      A16S
ATOM   1399  O2P G   A  70      107.529  27.011  15.430  1.00 47.70      A16S
ATOM   1400  O5* G   A  70      109.809  26.234  14.718  1.00 60.36      A16S
ATOM   1401  C5* G   A  70      110.733  25.573  13.857  1.00 60.36      A16S
ATOM   1402  C4* G   A  70      112.135  26.021  14.154  1.00 60.36      A16S
ATOM   1403  O4* G   A  70      112.260  27.436  13.883  1.00 60.36      A16S
ATOM   1404  C1* G   A  70      113.167  28.021  14.799  1.00 60.36      A16S
ATOM   1405  N9  G   A  70      112.458  29.048  15.558  1.00 47.70      A16S
ATOM   1406  C4  G   A  70      113.020  29.946  16.433  1.00 47.70      A16S
ATOM   1407  N3  G   A  70      114.326  30.038  16.737  1.00 47.70      A16S
ATOM   1408  C2  G   A  70      114.558  30.997  17.605  1.00 47.70      A16S
ATOM   1409  N2  G   A  70      115.804  31.227  18.025  1.00 47.70      A16S
ATOM   1410  N1  G   A  70      113.587  31.803  18.127  1.00 47.70      A16S
ATOM   1411  C6  G   A  70      112.238  31.734  17.819  1.00 47.70      A16S
ATOM   1412  O6  G   A  70      111.448  32.528  18.332  1.00 47.70      A16S
ATOM   1413  C5  G   A  70      111.971  30.706  16.903  1.00 47.70      A16S
ATOM   1414  N7  G   A  70      110.770  30.296  16.341  1.00 47.70      A16S
ATOM   1415  C8  G   A  70      111.105  29.313  15.549  1.00 47.70      A16S
ATOM   1416  C2* G   A  70      113.701  26.900  15.687  1.00 60.36      A16S
ATOM   1417  O2* G   A  70      114.897  26.404  15.126  1.00 60.36      A16S
ATOM   1418  C3* G   A  70      112.577  25.882  15.594  1.00 60.36      A16S
ATOM   1419  O3* G   A  70      113.005  24.566  15.883  1.00 60.36      A16S
ATOM   1420  P   C   A  73      112.532  23.870  17.256  1.00 63.73      A16S
ATOM   1421  O1P C   A  73      112.797  22.403  17.102  1.00 47.29      A16S
ATOM   1422  O2P C   A  73      111.144  24.345  17.585  1.00 47.29      A16S
ATOM   1423  O5* C   A  73      113.529  24.464  18.347  1.00 63.73      A16S
ATOM   1424  C5* C   A  73      114.931  24.252  18.227  1.00 63.73      A16S
ATOM   1425  C4* C   A  73      115.678  25.290  19.010  1.00 63.73      A16S
ATOM   1426  O4* C   A  73      115.322  26.607  18.525  1.00 63.73      A16S
ATOM   1427  C1* C   A  73      115.392  27.543  19.589  1.00 63.73      A16S
ATOM   1428  N1  C   A  73      114.063  28.139  19.799  1.00 47.29      A16S
ATOM   1429  C6  C   A  73      112.955  27.639  19.177  1.00 47.29      A16S
ATOM   1430  C2  C   A  73      113.950  29.231  20.680  1.00 47.29      A16S
ATOM   1431  O2  C   A  73      114.975  29.679  21.226  1.00 47.29      A16S
ATOM   1432  N3  C   A  73      112.736  29.762  20.919  1.00 47.29      A16S
ATOM   1433  C4  C   A  73      111.658  29.250  20.326  1.00 47.29      A16S
ATOM   1434  N4  C   A  73      110.475  29.790  20.619  1.00 47.29      A16S
ATOM   1435  C5  C   A  73      111.744  28.157  19.412  1.00 47.29      A16S
ATOM   1436  C2* C   A  73      115.816  26.782  20.838  1.00 63.73      A16S
ATOM   1437  O2* C   A  73      117.212  26.919  21.019  1.00 63.73      A16S
ATOM   1438  C3* C   A  73      115.361  25.373  20.487  1.00 63.73      A16S
ATOM   1439  O3* C   A  73      116.000  24.378  21.249  1.00 63.73      A16S
ATOM   1440  P   C   A  74      115.198  23.684  22.450  1.00 71.94      A16S
ATOM   1441  O1P C   A  74      116.062  22.559  22.857  1.00 50.92      A16S
ATOM   1442  O2P C   A  74      113.792  23.421  22.032  1.00 50.92      A16S
ATOM   1443  O5* C   A  74      115.219  24.780  23.604  1.00 71.94      A16S
ATOM   1444  C5* C   A  74      116.461  25.096  24.251  1.00 71.94      A16S
ATOM   1445  C4* C   A  74      116.272  26.174  25.282  1.00 71.94      A16S
ATOM   1446  O4* C   A  74      115.933  27.425  24.629  1.00 71.94      A16S
ATOM   1447  C1* C   A  74      115.018  28.148  25.434  1.00 71.94      A16S
ATOM   1448  N1  C   A  74      113.710  28.154  24.754  1.00 50.92      A16S
ATOM   1449  C6  C   A  74      113.400  27.212  23.804  1.00 50.92      A16S
ATOM   1450  C2  C   A  74      112.769  29.140  25.108  1.00 50.92      A16S
ATOM   1451  O2  C   A  74      113.079  29.975  25.968  1.00 50.92      A16S
ATOM   1452  N3  C   A  74      111.552  29.150  24.501  1.00 50.92      A16S
ATOM   1453  C4  C   A  74      111.262  28.224  23.576  1.00 50.92      A16S
ATOM   1454  N4  C   A  74      110.055  28.264  23.001  1.00 50.92      A16S
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ATOM   1455  C5  C   A  74     112.202  27.209  23.196  1.00 50.92      A16S
ATOM   1456  C2* C   A  74     114.888  27.388  26.747  1.00 71.94      A16S
ATOM   1457  O2* C   A  74     115.874  27.833  27.660  1.00 71.94      A16S
ATOM   1458  C3* C   A  74     115.149  25.968  26.280  1.00 71.94      A16S
ATOM   1459  O3* C   A  74     115.443  25.085  27.343  1.00 71.94      A16S
ATOM   1460  P   G   A  75     114.280  24.113  27.874  1.00 80.94      A16S
ATOM   1461  O1P G   A  75     114.853  23.338  29.000  1.00 52.52      A16S
ATOM   1462  O2P G   A  75     113.747  23.394  26.684  1.00 52.52      A16S
ATOM   1463  O5* G   A  75     113.170  25.118  28.447  1.00 80.94      A16S
ATOM   1464  C5* G   A  75     113.538  26.052  29.485  1.00 80.94      A16S
ATOM   1465  C4* G   A  75     112.379  26.935  29.942  1.00 80.94      A16S
ATOM   1466  O4* G   A  75     112.124  28.051  29.046  1.00 80.94      A16S
ATOM   1467  C1* G   A  75     110.847  28.600  29.341  1.00 80.94      A16S
ATOM   1468  N9  G   A  75     109.984  28.527  28.165  1.00 52.52      A16S
ATOM   1469  C4  G   A  75     108.836  29.254  27.965  1.00 52.52      A16S
ATOM   1470  N3  G   A  75     108.357  30.210  28.779  1.00 52.52      A16S
ATOM   1471  C2  G   A  75     107.208  30.695  28.345  1.00 52.52      A16S
ATOM   1472  N2  G   A  75     106.594  31.659  29.036  1.00 52.52      A16S
ATOM   1473  N1  G   A  75     106.575  30.277  27.206  1.00 52.52      A16S
ATOM   1474  C6  G   A  75     107.045  29.292  26.351  1.00 52.52      A16S
ATOM   1475  O6  G   A  75     106.385  28.977  25.346  1.00 52.52      A16S
ATOM   1476  C5  G   A  75     108.287  28.762  26.801  1.00 52.52      A16S
ATOM   1477  N7  G   A  75     109.096  27.778  26.253  1.00 52.52      A16S
ATOM   1478  C8  G   A  75     110.096  27.683  27.085  1.00 52.52      A16S
ATOM   1479  C2* G   A  75     110.231  27.728  30.436  1.00 80.94      A16S
ATOM   1480  O2* G   A  75     110.469  28.337  31.695  1.00 80.94      A16S
ATOM   1481  C3* G   A  75     110.990  26.410  30.267  1.00 80.94      A16S
ATOM   1482  O3* G   A  75     110.896  25.651  31.470  1.00 80.94      A16S
ATOM   1483  P   C   A  76     109.552  24.805  31.775  1.00 86.61      A16S
ATOM   1484  O1P C   A  76     109.830  23.990  32.984  1.00 59.66      A16S
ATOM   1485  O2P C   A  76     109.069  24.144  30.543  1.00 59.66      A16S
ATOM   1486  O5* C   A  76     108.463  25.903  32.156  1.00 86.61      A16S
ATOM   1487  C5* C   A  76     108.626  26.735  33.326  1.00 86.61      A16S
ATOM   1488  C4* C   A  76     107.430  27.645  33.504  1.00 86.61      A16S
ATOM   1489  O4* C   A  76     107.371  28.607  32.416  1.00 86.61      A16S
ATOM   1490  C1* C   A  76     106.018  28.901  32.111  1.00 86.61      A16S
ATOM   1491  N1  C   A  76     105.719  28.429  30.749  1.00 59.66      A16S
ATOM   1492  C6  C   A  76     106.441  27.422  30.173  1.00 59.66      A16S
ATOM   1493  C2  C   A  76     104.645  29.008  30.060  1.00 59.66      A16S
ATOM   1494  O2  C   A  76     104.022  29.939  30.590  1.00 59.66      A16S
ATOM   1495  N3  C   A  76     104.311  28.538  28.840  1.00 59.66      A16S
ATOM   1496  C4  C   A  76     105.003  27.535  28.303  1.00 59.66      A16S
ATOM   1497  N4  C   A  76     104.621  27.086  27.111  1.00 59.66      A16S
ATOM   1498  C5  C   A  76     106.116  26.944  28.967  1.00 59.66      A16S
ATOM   1499  C2* C   A  76     105.150  28.137  33.106  1.00 86.61      A16S
ATOM   1500  O2* C   A  76     104.848  28.967  34.207  1.00 86.61      A16S
ATOM   1501  C3* C   A  76     106.063  26.981  33.477  1.00 86.61      A16S
ATOM   1502  O3* C   A  76     105.690  26.385  34.703  1.00 86.61      A16S
ATOM   1503  P   G   A  77     104.512  25.290  34.714  1.00 50.78      A16S
ATOM   1504  O1P G   A  77     104.348  24.820  36.115  1.00 56.50      A16S
ATOM   1505  O2P G   A  77     104.762  24.296  33.642  1.00 56.50      A16S
ATOM   1506  O5* G   A  77     103.223  26.124  34.287  1.00 50.78      A16S
ATOM   1507  C5* G   A  77     102.737  27.193  35.109  1.00 50.78      A16S
ATOM   1508  C4* G   A  77     101.459  27.742  34.541  1.00 50.78      A16S
ATOM   1509  O4* G   A  77     101.727  28.410  33.282  1.00 50.78      A16S
ATOM   1510  C1* G   A  77     100.625  28.226  32.400  1.00 50.78      A16S
ATOM   1511  N9  G   A  77     101.089  27.541  31.194  1.00 56.50      A16S
ATOM   1512  C4  G   A  77     100.389  27.392  30.020  1.00 56.50      A16S
ATOM   1513  N3  G   A  77      99.186  27.924  29.742  1.00 56.50      A16S
ATOM   1514  C2  G   A  77      98.754  27.573  28.544  1.00 56.50      A16S
ATOM   1515  N2  G   A  77      97.601  28.051  28.086  1.00 56.50      A16S
ATOM   1516  N1  G   A  77      99.426  26.739  27.700  1.00 56.50      A16S
ATOM   1517  C6  G   A  77     100.662  26.169  27.965  1.00 56.50      A16S
ATOM   1518  O6  G   A  77     101.175  25.401  27.136  1.00 56.50      A16S
ATOM   1519  C5  G   A  77     101.162  26.574  29.236  1.00 56.50      A16S
ATOM   1520  N7  G   A  77     102.355  26.267  29.873  1.00 56.50      A16S
ATOM   1521  C8  G   A  77     102.272  26.871  31.024  1.00 56.50      A16S
ATOM   1522  C2* G   A  77      99.571  27.393  33.139  1.00 50.78      A16S
ATOM   1523  O2* G   A  77      98.581  28.223  33.702  1.00 50.78      A16S
ATOM   1524  C3* G   A  77     100.415  26.698  34.197  1.00 50.78      A16S
ATOM   1525  O3* G   A  77      99.660  26.293  35.318  1.00 50.78      A16S
ATOM   1526  P   G   A  78      98.886  24.889  35.278  1.00 40.52      A16S
ATOM   1527  O1P G   A  78      98.313  24.721  36.637  1.00 45.54      A16S
ATOM   1528  O2P G   A  78      99.775  23.839  34.733  1.00 45.54      A16S
ATOM   1529  O5* G   A  78      97.718  25.131  34.218  1.00 40.52      A16S
ATOM   1530  C5* G   A  78      96.687  26.086  34.500  1.00 40.52      A16S
ATOM   1531  C4* G   A  78      95.686  26.167  33.373  1.00 40.52      A16S
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ATOM   1532  O4*  G   A  78      96.303  26.696  32.176  1.00 40.52      A16S
ATOM   1533  C1*  G   A  78      95.671  26.150  31.027  1.00 40.52      A16S
ATOM   1534  N9   G   A  78      96.675  25.398  30.272  1.00 45.54      A16S
ATOM   1535  C4   G   A  78      96.543  24.874  29.002  1.00 45.54      A16S
ATOM   1536  N3   G   A  78      95.475  25.010  28.188  1.00 45.54      A16S
ATOM   1537  C2   G   A  78      95.649  24.381  27.040  1.00 45.54      A16S
ATOM   1538  N2   G   A  78      94.716  24.452  26.095  1.00 45.54      A16S
ATOM   1539  N1   G   A  78      96.753  23.645  26.737  1.00 45.54      A16S
ATOM   1540  C6   G   A  78      97.849  23.472  27.571  1.00 45.54      A16S
ATOM   1541  O6   G   A  78      98.777  22.739  27.223  1.00 45.54      A16S
ATOM   1542  C5   G   A  78      97.706  24.181  28.773  1.00 45.54      A16S
ATOM   1543  N7   G   A  78      98.574  24.304  29.845  1.00 45.54      A16S
ATOM   1544  C8   G   A  78      97.926  25.037  30.707  1.00 45.54      A16S
ATOM   1545  C2*  G   A  78      94.545  25.241  31.525  1.00 40.52      A16S
ATOM   1546  O2*  G   A  78      93.315  25.938  31.590  1.00 40.52      A16S
ATOM   1547  C3*  G   A  78      95.038  24.879  32.920  1.00 40.52      A16S
ATOM   1548  O3*  G   A  78      93.969  24.492  33.760  1.00 40.52      A16S
ATOM   1549  P    G   A  79      93.258  23.073  33.519  1.00 45.26      A16S
ATOM   1550  O1P  G   A  79      94.304  22.017  33.620  1.00 43.19      A16S
ATOM   1551  O2P  G   A  79      92.025  22.988  34.352  1.00 43.19      A16S
ATOM   1552  O5*  G   A  79      92.772  23.156  32.011  1.00 45.26      A16S
ATOM   1553  C5*  G   A  79      92.284  21.997  31.344  1.00 45.26      A16S
ATOM   1554  C4*  G   A  79      91.889  22.345  29.937  1.00 45.26      A16S
ATOM   1555  O4*  G   A  79      93.021  22.892  29.221  1.00 45.26      A16S
ATOM   1556  C1*  G   A  79      93.027  22.402  27.895  1.00 45.26      A16S
ATOM   1557  N9   G   A  79      94.262  21.645  27.708  1.00 43.19      A16S
ATOM   1558  C4   G   A  79      94.631  20.941  26.592  1.00 43.19      A16S
ATOM   1559  N3   G   A  79      93.900  20.800  25.468  1.00 43.19      A16S
ATOM   1560  C2   G   A  79      94.534  20.093  24.559  1.00 43.19      A16S
ATOM   1561  N2   G   A  79      93.961  19.881  23.370  1.00 43.19      A16S
ATOM   1562  N1   G   A  79      95.777  19.554  24.748  1.00 43.19      A16S
ATOM   1563  C6   G   A  79      96.543  19.697  25.897  1.00 43.19      A16S
ATOM   1564  O6   G   A  79      97.664  19.193  25.960  1.00 43.19      A16S
ATOM   1565  C5   G   A  79      95.883  20.450  26.868  1.00 43.19      A16S
ATOM   1566  N7   G   A  79      96.289  20.817  28.139  1.00 43.19      A16S
ATOM   1567  C8   G   A  79      95.295  21.517  28.603  1.00 43.19      A16S
ATOM   1568  C2*  G   A  79      91.759  21.571  27.700  1.00 45.26      A16S
ATOM   1569  O2*  G   A  79      90.733  22.379  27.157  1.00 45.26      A16S
ATOM   1570  C3*  G   A  79      91.471  21.147  29.126  1.00 45.26      A16S
ATOM   1571  O3*  G   A  79      90.129  20.858  29.375  1.00 45.26      A16S
ATOM   1572  P    G   A  80      89.740  19.379  29.798  1.00 57.04      A16S
ATOM   1573  O1P  G   A  80      88.325  19.393  30.258  1.00 62.27      A16S
ATOM   1574  O2P  G   A  80      90.810  18.892  30.704  1.00 62.27      A16S
ATOM   1575  O5*  G   A  80      89.828  18.592  28.423  1.00 57.04      A16S
ATOM   1576  C5*  G   A  80      88.982  18.967  27.338  1.00 57.04      A16S
ATOM   1577  C4*  G   A  80      89.281  18.126  26.135  1.00 57.04      A16S
ATOM   1578  O4*  G   A  80      90.574  18.487  25.602  1.00 57.04      A16S
ATOM   1579  C1*  G   A  80      91.180  17.355  25.035  1.00 57.04      A16S
ATOM   1580  N9   G   A  80      92.512  17.221  25.614  1.00 62.27      A16S
ATOM   1581  C4   G   A  80      93.598  16.605  25.034  1.00 62.27      A16S
ATOM   1582  N3   G   A  80      93.618  15.999  23.828  1.00 62.27      A16S
ATOM   1583  C2   G   A  80      94.811  15.525  23.538  1.00 62.27      A16S
ATOM   1584  N2   G   A  80      95.009  14.926  22.372  1.00 62.27      A16S
ATOM   1585  N1   G   A  80      95.893  15.612  24.366  1.00 62.27      A16S
ATOM   1586  C6   G   A  80      95.896  16.222  25.609  1.00 62.27      A16S
ATOM   1587  O6   G   A  80      96.930  16.244  26.278  1.00 62.27      A16S
ATOM   1588  C5   G   A  80      94.627  16.755  25.932  1.00 62.27      A16S
ATOM   1589  N7   G   A  80      94.200  17.443  27.059  1.00 62.27      A16S
ATOM   1590  C8   G   A  80      92.940  17.694  26.828  1.00 62.27      A16S
ATOM   1591  C2*  G   A  80      90.236  16.163  25.226  1.00 57.04      A16S
ATOM   1592  O2*  G   A  80      89.497  16.030  24.042  1.00 57.04      A16S
ATOM   1593  C3*  G   A  80      89.347  16.629  26.375  1.00 57.04      A16S
ATOM   1594  O3*  G   A  80      88.019  16.097  26.330  1.00 57.04      A16S
ATOM   1595  P    U   A  81      87.693  14.634  26.926  1.00 88.09      A16S
ATOM   1596  O1P  U   A  81      88.400  13.651  26.066  1.00163.38      A16S
ATOM   1597  O2P  U   A  81      86.223  14.542  27.087  1.00163.38      A16S
ATOM   1598  O5*  U   A  81      88.326  14.581  28.386  1.00 88.09      A16S
ATOM   1599  C5*  U   A  81      89.739  14.390  28.566  1.00 88.09      A16S
ATOM   1600  C4*  U   A  81      90.139  12.935  28.335  1.00 88.09      A16S
ATOM   1601  O4*  U   A  81      91.522  12.932  27.898  1.00 88.09      A16S
ATOM   1602  C1*  U   A  81      92.234  11.906  28.552  1.00 88.09      A16S
ATOM   1603  N1   U   A  81      93.275  12.551  29.369  1.00163.38      A16S
ATOM   1604  C6   U   A  81      92.966  13.539  30.281  1.00163.38      A16S
ATOM   1605  C2   U   A  81      94.583  12.151  29.176  1.00163.38      A16S
ATOM   1606  O2   U   A  81      94.900  11.277  28.388  1.00163.38      A16S
ATOM   1607  N3   U   A  81      95.510  12.816  29.939  1.00163.38      A16S
ATOM   1608  C4   U   A  81      95.271  13.818  30.854  1.00163.38      A16S
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ATOM   1609  O4  U   A  81      96.220  14.339  31.444  1.00163.38      A16S
ATOM   1610  C5  U   A  81      93.893  14.169  31.006  1.00163.38      A16S
ATOM   1611  C2* U   A  81      91.224  11.021  29.288  1.00 88.09      A16S
ATOM   1612  O2* U   A  81      90.863   9.967  28.423  1.00 88.09      A16S
ATOM   1613  C3* U   A  81      90.072  11.993  29.540  1.00 88.09      A16S
ATOM   1614  O3* U   A  81      88.779  11.369  29.608  1.00 88.09      A16S
ATOM   1615  P   U   A  82      88.558  10.005  30.450  1.00149.69      A16S
ATOM   1616  O1P U   A  82      88.935   8.893  29.543  1.00 74.60      A16S
ATOM   1617  O2P U   A  82      87.185  10.040  31.024  1.00 74.60      A16S
ATOM   1618  O5* U   A  82      89.620  10.047  31.643  1.00149.69      A16S
ATOM   1619  C5* U   A  82      89.206   9.902  33.026  1.00149.69      A16S
ATOM   1620  C4* U   A  82      90.117   8.941  33.769  1.00149.69      A16S
ATOM   1621  O4* U   A  82      89.794   7.567  33.436  1.00149.69      A16S
ATOM   1622  C1* U   A  82      90.975   6.773  33.487  1.00149.69      A16S
ATOM   1623  N1  U   A  82      91.174   6.120  32.182  1.00 74.60      A16S
ATOM   1624  C6  U   A  82      90.309   6.332  31.138  1.00 74.60      A16S
ATOM   1625  C2  U   A  82      92.265   5.275  32.035  1.00 74.60      A16S
ATOM   1626  O2  U   A  82      93.074   5.067  32.927  1.00 74.60      A16S
ATOM   1627  N3  U   A  82      92.378   4.687  30.799  1.00 74.60      A16S
ATOM   1628  C4  U   A  82      91.541   4.857  29.714  1.00 74.60      A16S
ATOM   1629  O4  U   A  82      91.765   4.245  28.663  1.00 74.60      A16S
ATOM   1630  C5  U   A  82      90.453   5.751  29.943  1.00 74.60      A16S
ATOM   1631  C2* U   A  82      92.139   7.684  33.880  1.00149.69      A16S
ATOM   1632  O2* U   A  82      92.410   7.565  35.263  1.00149.69      A16S
ATOM   1633  C3* U   A  82      91.608   9.056  33.493  1.00149.69      A16S
ATOM   1634  O3* U   A  82      92.228  10.072  34.251  1.00149.69      A16S
ATOM   1635  P   U   A  83      93.133  11.159  33.503  1.00100.05      A16S
ATOM   1636  O1P U   A  83      93.416  12.216  34.509  1.00 70.51      A16S
ATOM   1637  O2P U   A  83      92.415  11.502  32.244  1.00 70.51      A16S
ATOM   1638  O5* U   A  83      94.486  10.390  33.139  1.00100.05      A16S
ATOM   1639  C5* U   A  83      95.463  10.113  34.160  1.00100.05      A16S
ATOM   1640  C4* U   A  83      96.454   9.055  33.710  1.00100.05      A16S
ATOM   1641  O4* U   A  83      95.763   7.831  33.333  1.00100.05      A16S
ATOM   1642  C1* U   A  83      96.560   7.103  32.407  1.00100.05      A16S
ATOM   1643  N1  U   A  83      95.809   6.872  31.161  1.00 70.51      A16S
ATOM   1644  C6  U   A  83      94.608   7.491  30.904  1.00 70.51      A16S
ATOM   1645  C2  U   A  83      96.376   6.007  30.219  1.00 70.51      A16S
ATOM   1646  O2  U   A  83      97.431   5.403  30.405  1.00 70.51      A16S
ATOM   1647  N3  U   A  83      95.667   5.872  29.053  1.00 70.51      A16S
ATOM   1648  C4  U   A  83      94.480   6.478  28.732  1.00 70.51      A16S
ATOM   1649  O4  U   A  83      93.987   6.274  27.627  1.00 70.51      A16S
ATOM   1650  C5  U   A  83      93.943   7.330  29.752  1.00 70.51      A16S
ATOM   1651  C2* U   A  83      97.811   7.933  32.131  1.00100.05      A16S
ATOM   1652  O2* U   A  83      98.869   7.461  32.942  1.00100.05      A16S
ATOM   1653  C3* U   A  83      97.353   9.335  32.514  1.00100.05      A16S
ATOM   1654  O3* U   A  83      98.482  10.148  32.812  1.00100.05      A16S
ATOM   1655  P   U   A  84      99.230  10.930  31.616  1.00127.54      A16S
ATOM   1656  O1P U   A  84     100.481  11.525  32.152  1.00 56.36      A16S
ATOM   1657  O2P U   A  84      98.233  11.798  30.949  1.00 56.36      A16S
ATOM   1658  O5* U   A  84      99.663   9.788  30.589  1.00127.54      A16S
ATOM   1659  C5* U   A  84     100.827   8.971  30.842  1.00127.54      A16S
ATOM   1660  C4* U   A  84     101.165   8.133  29.631  1.00127.54      A16S
ATOM   1661  O4* U   A  84     100.043   7.273  29.315  1.00127.54      A16S
ATOM   1662  C1* U   A  84      99.954   7.103  27.914  1.00127.54      A16S
ATOM   1663  N1  U   A  84      98.649   7.600  27.461  1.00 56.36      A16S
ATOM   1664  C6  U   A  84      97.907   8.471  28.220  1.00 56.36      A16S
ATOM   1665  C2  U   A  84      98.188   7.159  26.228  1.00 56.36      A16S
ATOM   1666  O2  U   A  84      98.808   6.386  25.527  1.00 56.36      A16S
ATOM   1667  N3  U   A  84      96.972   7.661  25.849  1.00 56.36      A16S
ATOM   1668  C4  U   A  84      96.178   8.537  26.557  1.00 56.36      A16S
ATOM   1669  O4  U   A  84      95.089   8.894  26.081  1.00 56.36      A16S
ATOM   1670  C5  U   A  84      96.721   8.942  27.824  1.00 56.36      A16S
ATOM   1671  C2* U   A  84     101.110   7.865  27.270  1.00127.54      A16S
ATOM   1672  O2* U   A  84     102.167   6.966  27.011  1.00127.54      A16S
ATOM   1673  C3* U   A  84     101.441   8.892  28.344  1.00127.54      A16S
ATOM   1674  O3* U   A  84     102.797   9.311  28.259  1.00127.54      A16S
ATOM   1675  P   A   A  88     103.180  10.596  27.368  1.00 77.55      A16S
ATOM   1676  O1P A   A  88     104.643  10.840  27.560  1.00 53.60      A16S
ATOM   1677  O2P A   A  88     102.195  11.686  27.652  1.00 53.60      A16S
ATOM   1678  O5* A   A  88     102.921  10.141  25.865  1.00 77.55      A16S
ATOM   1679  C5* A   A  88     103.738   9.146  25.246  1.00 77.55      A16S
ATOM   1680  C4* A   A  88     103.128   8.730  23.938  1.00 77.55      A16S
ATOM   1681  O4* A   A  88     101.811   8.174  24.191  1.00 77.55      A16S
ATOM   1682  C1* A   A  88     100.929   8.527  23.139  1.00 77.55      A16S
ATOM   1683  N9  A   A  88      99.838   9.330  23.695  1.00 53.60      A16S
ATOM   1684  C4  A   A  88      98.635   9.591  23.084  1.00 53.60      A16S
ATOM   1685  N3  A   A  88      98.224   9.161  21.882  1.00 53.60      A16S
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ATOM   1686  C2  A   A  88      96.994   9.607  21.616  1.00 53.60      A16S
ATOM   1687  N1  A   A  88      96.196  10.383  22.355  1.00 53.60      A16S
ATOM   1688  C6  A   A  88      96.645  10.810  23.553  1.00 53.60      A16S
ATOM   1689  N6  A   A  88      95.856  11.609  24.277  1.00 53.60      A16S
ATOM   1690  C5  A   A  88      97.930  10.392  23.960  1.00 53.60      A16S
ATOM   1691  N7  A   A  88      98.672  10.631  25.111  1.00 53.60      A16S
ATOM   1692  C8  A   A  88      99.792   9.981  24.904  1.00 53.60      A16S
ATOM   1693  C2* A   A  88     101.739   9.303  22.102  1.00 77.55      A16S
ATOM   1694  O2* A   A  88     102.185   8.409  21.102  1.00 77.55      A16S
ATOM   1695  C3* A   A  88     102.869   9.862  22.959  1.00 77.55      A16S
ATOM   1696  O3* A   A  88     104.026  10.228  22.218  1.00 77.55      A16S
ATOM   1697  P   C   A  89     104.380  11.791  22.030  1.00 58.82      A16S
ATOM   1698  O1P C   A  89     105.588  11.861  21.170  1.00 66.77      A16S
ATOM   1699  O2P C   A  89     104.394  12.459  23.362  1.00 66.77      A16S
ATOM   1700  O5* C   A  89     103.164  12.350  21.170  1.00 58.82      A16S
ATOM   1701  C5* C   A  89     102.909  11.818  19.864  1.00 58.82      A16S
ATOM   1702  C4* C   A  89     101.514  12.154  19.425  1.00 58.82      A16S
ATOM   1703  O4* C   A  89     100.572  11.589  20.370  1.00 58.82      A16S
ATOM   1704  C1* C   A  89      99.484  12.476  20.553  1.00 58.82      A16S
ATOM   1705  N1  C   A  89      99.493  12.942  21.951  1.00 66.77      A16S
ATOM   1706  C6  C   A  89     100.628  12.881  22.710  1.00 66.77      A16S
ATOM   1707  C2  C   A  89      98.325  13.478  22.480  1.00 66.77      A16S
ATOM   1708  O2  C   A  89      97.304  13.482  21.781  1.00 66.77      A16S
ATOM   1709  N3  C   A  89      98.334  13.976  23.738  1.00 66.77      A16S
ATOM   1710  C4  C   A  89      99.454  13.939  24.460  1.00 66.77      A16S
ATOM   1711  N4  C   A  89      99.431  14.464  25.682  1.00 66.77      A16S
ATOM   1712  C5  C   A  89     100.653  13.366  23.957  1.00 66.77      A16S
ATOM   1713  C2* C   A  89      99.685  13.644  19.589  1.00 58.82      A16S
ATOM   1714  O2* C   A  89      99.004  13.401  18.376  1.00 58.82      A16S
ATOM   1715  C3* C   A  89     101.194  13.634  19.423  1.00 58.82      A16S
ATOM   1716  O3* C   A  89     101.626  14.262  18.240  1.00 58.82      A16S
ATOM   1717  P   U   A  90     102.296  15.713  18.324  1.00 40.90      A16S
ATOM   1718  O1P U   A  90     102.856  16.002  16.984  1.00 46.13      A16S
ATOM   1719  O2P U   A  90     103.172  15.791  19.527  1.00 46.13      A16S
ATOM   1720  O5* U   A  90     101.046  16.671  18.493  1.00 40.90      A16S
ATOM   1721  C5* U   A  90      99.982  16.615  17.553  1.00 40.90      A16S
ATOM   1722  C4* U   A  90      98.699  17.070  18.194  1.00 40.90      A16S
ATOM   1723  O4* U   A  90      98.453  16.290  19.385  1.00 40.90      A16S
ATOM   1724  C1* U   A  90      97.798  17.082  20.350  1.00 40.90      A16S
ATOM   1725  N1  U   A  90      98.645  17.149  21.548  1.00 46.13      A16S
ATOM   1726  C6  U   A  90      99.942  16.715  21.536  1.00 46.13      A16S
ATOM   1727  C2  U   A  90      98.086  17.674  22.688  1.00 46.13      A16S
ATOM   1728  O2  U   A  90      96.922  18.039  22.752  1.00 46.13      A16S
ATOM   1729  N3  U   A  90      98.928  17.747  23.761  1.00 46.13      A16S
ATOM   1730  C4  U   A  90     100.231  17.334  23.817  1.00 46.13      A16S
ATOM   1731  O4  U   A  90     100.854  17.442  24.878  1.00 46.13      A16S
ATOM   1732  C5  U   A  90     100.731  16.780  22.600  1.00 46.13      A16S
ATOM   1733  C2* U   A  90      97.552  18.451  19.726  1.00 40.90      A16S
ATOM   1734  O2* U   A  90      96.254  18.440  19.160  1.00 40.90      A16S
ATOM   1735  C3* U   A  90      98.649  18.505  18.673  1.00 40.90      A16S
ATOM   1736  O3* U   A  90      98.303  19.355  17.599  1.00 40.90      A16S
ATOM   1737  P   C   A  91      98.671  20.904  17.675  1.00 46.46      A16S
ATOM   1738  O1P C   A  91      98.623  21.434  16.286  1.00 40.98      A16S
ATOM   1739  O2P C   A  91      99.910  21.038  18.474  1.00 40.98      A16S
ATOM   1740  O5* C   A  91      97.485  21.535  18.524  1.00 46.46      A16S
ATOM   1741  C5* C   A  91      96.133  21.524  18.039  1.00 46.46      A16S
ATOM   1742  C4* C   A  91      95.238  22.290  18.986  1.00 46.46      A16S
ATOM   1743  O4* C   A  91      95.076  21.545  20.223  1.00 46.46      A16S
ATOM   1744  C1* C   A  91      95.059  22.442  21.320  1.00 46.46      A16S
ATOM   1745  N1  C   A  91      96.235  22.173  22.160  1.00 40.98      A16S
ATOM   1746  C6  C   A  91      97.287  21.455  21.674  1.00 40.98      A16S
ATOM   1747  C2  C   A  91      96.263  22.663  23.468  1.00 40.98      A16S
ATOM   1748  O2  C   A  91      95.293  23.305  23.889  1.00 40.98      A16S
ATOM   1749  N3  C   A  91      97.338  22.421  24.240  1.00 40.98      A16S
ATOM   1750  C4  C   A  91      98.354  21.716  23.756  1.00 40.98      A16S
ATOM   1751  N4  C   A  91      99.394  21.489  24.552  1.00 40.98      A16S
ATOM   1752  C5  C   A  91      98.353  21.204  22.430  1.00 40.98      A16S
ATOM   1753  C2* C   A  91      95.084  23.857  20.756  1.00 46.46      A16S
ATOM   1754  O2* C   A  91      93.752  24.272  20.573  1.00 46.46      A16S
ATOM   1755  C3* C   A  91      95.780  23.640  19.424  1.00 46.46      A16S
ATOM   1756  O3* C   A  91      95.485  24.667  18.493  1.00 46.46      A16S
ATOM   1757  P   C   A  92      96.415  25.977  18.443  1.00 52.13      A16S
ATOM   1758  O1P C   A  92      96.053  26.734  17.208  1.00 36.99      A16S
ATOM   1759  O2P C   A  92      97.817  25.531  18.658  1.00 36.99      A16S
ATOM   1760  O5* C   A  92      95.978  26.822  19.718  1.00 52.13      A16S
ATOM   1761  C5* C   A  92      94.641  27.319  19.841  1.00 52.13      A16S
ATOM   1762  C4* C   A  92      94.431  27.918  21.208  1.00 52.13      A16S
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ATOM   1763  O4* C   A  92      94.538  26.884  22.224  1.00 52.13      A16S
ATOM   1764  C1* C   A  92      95.093  27.434  23.405  1.00 52.13      A16S
ATOM   1765  N1  C   A  92      96.389  26.788  23.686  1.00 36.99      A16S
ATOM   1766  C6  C   A  92      97.020  26.000  22.766  1.00 36.99      A16S
ATOM   1767  C2  C   A  92      96.984  27.027  24.932  1.00 36.99      A16S
ATOM   1768  O2  C   A  92      96.387  27.742  25.754  1.00 36.99      A16S
ATOM   1769  N3  C   A  92      98.195  26.487  25.207  1.00 36.99      A16S
ATOM   1770  C4  C   A  92      98.809  25.741  24.297  1.00 36.99      A16S
ATOM   1771  N4  C   A  92     100.007  25.259  24.610  1.00 36.99      A16S
ATOM   1772  C5  C   A  92      98.220  25.464  23.026  1.00 36.99      A16S
ATOM   1773  C2* C   A  92      95.308  28.925  23.155  1.00 52.13      A16S
ATOM   1774  O2* C   A  92      94.187  29.651  23.614  1.00 52.13      A16S
ATOM   1775  C3* C   A  92      95.442  28.961  21.644  1.00 52.13      A16S
ATOM   1776  O3* C   A  92      95.166  30.246  21.137  1.00 52.13      A16S
ATOM   1777  P   G   A  93      96.375  31.282  20.929  1.00 53.73      A16S
ATOM   1778  O1P G   A  93      95.769  32.430  20.203  1.00 54.33      A16S
ATOM   1779  O2P G   A  93      97.533  30.568  20.340  1.00 54.33      A16S
ATOM   1780  O5* G   A  93      96.785  31.734  22.401  1.00 53.73      A16S
ATOM   1781  C5* G   A  93      95.842  32.432  23.216  1.00 53.73      A16S
ATOM   1782  C4* G   A  93      96.358  32.585  24.615  1.00 53.73      A16S
ATOM   1783  O4* G   A  93      96.595  31.276  25.180  1.00 53.73      A16S
ATOM   1784  C1* G   A  93      97.672  31.344  26.098  1.00 53.73      A16S
ATOM   1785  N9  G   A  93      98.711  30.414  25.673  1.00 54.33      A16S
ATOM   1786  C4  G   A  93      99.829  30.079  26.389  1.00 54.33      A16S
ATOM   1787  N3  G   A  93     100.131  30.513  27.625  1.00 54.33      A16S
ATOM   1788  C2  G   A  93     101.285  30.037  28.042  1.00 54.33      A16S
ATOM   1789  N2  G   A  93     101.729  30.346  29.257  1.00 54.33      A16S
ATOM   1790  N1  G   A  93     102.089  29.217  27.299  1.00 54.33      A16S
ATOM   1791  C6  G   A  93     101.802  28.764  26.021  1.00 54.33      A16S
ATOM   1792  O6  G   A  93     102.607  28.041  25.430  1.00 54.33      A16S
ATOM   1793  C5  G   A  93     100.554  29.247  25.569  1.00 54.33      A16S
ATOM   1794  N7  G   A  93      99.887  29.031  24.372  1.00 54.33      A16S
ATOM   1795  C8  G   A  93      98.795  29.738  24.481  1.00 54.33      A16S
ATOM   1796  C2* G   A  93      98.190  32.786  26.108  1.00 53.73      A16S
ATOM   1797  O2* G   A  93      97.694  33.488  27.233  1.00 53.73      A16S
ATOM   1798  C3* G   A  93      97.680  33.309  24.768  1.00 53.73      A16S
ATOM   1799  O3* G   A  93      97.529  34.722  24.751  1.00 53.73      A16S
ATOM   1800  P   U   A  95      98.660  35.634  24.059  1.00 67.27      A16S
ATOM   1801  O1P U   A  95      98.124  37.001  24.153  1.00 61.25      A16S
ATOM   1802  O2P U   A  95      99.019  35.083  22.732  1.00 61.25      A16S
ATOM   1803  O5* U   A  95      99.912  35.520  25.038  1.00 67.27      A16S
ATOM   1804  C5* U   A  95      99.798  35.988  26.390  1.00 67.27      A16S
ATOM   1805  C4* U   A  95     100.896  35.429  27.263  1.00 67.27      A16S
ATOM   1806  O4* U   A  95     100.856  33.977  27.252  1.00 67.27      A16S
ATOM   1807  C1* U   A  95     102.167  33.464  27.463  1.00 67.27      A16S
ATOM   1808  N1  U   A  95     102.556  32.605  26.334  1.00 61.25      A16S
ATOM   1809  C6  U   A  95     101.828  32.538  25.179  1.00 61.25      A16S
ATOM   1810  C2  U   A  95     103.709  31.865  26.484  1.00 61.25      A16S
ATOM   1811  O2  U   A  95     104.385  31.891  27.495  1.00 61.25      A16S
ATOM   1812  N3  U   A  95     104.049  31.097  25.411  1.00 61.25      A16S
ATOM   1813  C4  U   A  95     103.378  30.995  24.226  1.00 61.25      A16S
ATOM   1814  O4  U   A  95     103.856  30.303  23.320  1.00 61.25      A16S
ATOM   1815  C5  U   A  95     102.188  31.781  24.148  1.00 61.25      A16S
ATOM   1816  C2* U   A  95     103.113  34.652  27.600  1.00 67.27      A16S
ATOM   1817  O2* U   A  95     103.332  34.895  28.975  1.00 67.27      A16S
ATOM   1818  C3* U   A  95     102.331  35.748  26.882  1.00 67.27      A16S
ATOM   1819  O3* U   A  95     102.740  37.056  27.256  1.00 67.27      A16S
ATOM   1820  P   G   A  96     103.848  37.814  26.365  1.00 66.06      A16S
ATOM   1821  O1P G   A  96     103.709  39.266  26.644  1.00 64.60      A16S
ATOM   1822  O2P G   A  96     103.736  37.326  24.963  1.00 64.60      A16S
ATOM   1823  O5* G   A  96     105.231  37.302  26.976  1.00 66.06      A16S
ATOM   1824  C5* G   A  96     105.530  37.543  28.354  1.00 66.06      A16S
ATOM   1825  C4* G   A  96     106.853  36.939  28.741  1.00 66.06      A16S
ATOM   1826  O4* G   A  96     106.764  35.496  28.835  1.00 66.06      A16S
ATOM   1827  C1* G   A  96     108.039  34.927  28.580  1.00 66.06      A16S
ATOM   1828  N9  G   A  96     107.959  34.026  27.431  1.00 64.60      A16S
ATOM   1829  C4  G   A  96     108.914  33.104  27.072  1.00 64.60      A16S
ATOM   1830  N3  G   A  96     110.054  32.848  27.745  1.00 64.60      A16S
ATOM   1831  C2  G   A  96     110.783  31.921  27.149  1.00 64.60      A16S
ATOM   1832  N2  G   A  96     111.942  31.544  27.702  1.00 64.60      A16S
ATOM   1833  N1  G   A  96     110.427  31.298  25.970  1.00 64.60      A16S
ATOM   1834  C6  G   A  96     109.262  31.553  25.254  1.00 64.60      A16S
ATOM   1835  O6  G   A  96     109.048  30.954  24.195  1.00 64.60      A16S
ATOM   1836  C5  G   A  96     108.458  32.538  25.898  1.00 64.60      A16S
ATOM   1837  N7  G   A  96     107.228  33.073  25.541  1.00 64.60      A16S
ATOM   1838  C8  G   A  96     106.967  33.944  26.481  1.00 64.60      A16S
ATOM   1839  C2* G   A  96     108.995  36.079  28.280  1.00 66.06      A16S
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ATOM   1840  O2* G   A  96      109.672  36.429  29.469  1.00 66.06      A16S
ATOM   1841  C3* G   A  96      108.033  37.166  27.823  1.00 66.06      A16S
ATOM   1842  O3* G   A  96      108.598  38.458  27.943  1.00 66.06      A16S
ATOM   1843  P   G   A  97      109.316  39.122  26.663  1.00 76.03      A16S
ATOM   1844  O1P G   A  97      109.631  40.536  27.010  1.00 62.82      A16S
ATOM   1845  O2P G   A  97      108.471  38.830  25.475  1.00 62.82      A16S
ATOM   1846  O5* G   A  97      110.686  38.319  26.531  1.00 76.03      A16S
ATOM   1847  C5* G   A  97      111.640  38.350  27.601  1.00 76.03      A16S
ATOM   1848  C4* G   A  97      112.790  37.418  27.323  1.00 76.03      A16S
ATOM   1849  O4* G   A  97      112.327  36.043  27.312  1.00 76.03      A16S
ATOM   1850  C1* G   A  97      113.081  35.297  26.378  1.00 76.03      A16S
ATOM   1851  N9  G   A  97      112.184  34.815  25.333  1.00 62.82      A16S
ATOM   1852  C4  G   A  97      112.451  33.789  24.467  1.00 62.82      A16S
ATOM   1853  N3  G   A  97      113.580  33.059  24.442  1.00 62.82      A16S
ATOM   1854  C2  G   A  97      113.544  32.132  23.514  1.00 62.82      A16S
ATOM   1855  N2  G   A  97      114.587  31.310  23.362  1.00 62.82      A16S
ATOM   1856  N1  G   A  97      112.486  31.936  22.667  1.00 62.82      A16S
ATOM   1857  C6  G   A  97      111.314  32.677  22.670  1.00 62.82      A16S
ATOM   1858  O6  G   A  97      110.415  32.408  21.862  1.00 62.82      A16S
ATOM   1859  C5  G   A  97      111.339  33.682  23.669  1.00 62.82      A16S
ATOM   1860  N7  G   A  97      110.389  34.632  24.019  1.00 62.82      A16S
ATOM   1861  C8  G   A  97      110.933  35.281  25.010  1.00 62.82      A16S
ATOM   1862  C2* G   A  97      114.134  36.230  25.789  1.00 76.03      A16S
ATOM   1863  O2* G   A  97      115.337  36.097  26.516  1.00 76.03      A16S
ATOM   1864  C3* G   A  97      113.473  37.584  25.981  1.00 76.03      A16S
ATOM   1865  O3* G   A  97      114.392  38.656  25.955  1.00 76.03      A16S
ATOM   1866  P   U   A  98      114.554  39.512  24.604  1.00 85.58      A16S
ATOM   1867  O1P U   A  98      115.493  40.627  24.920  1.00 54.69      A16S
ATOM   1868  O2P U   A  98      113.197  39.825  24.048  1.00 54.69      A16S
ATOM   1869  O5* U   A  98      115.263  38.489  23.608  1.00 85.58      A16S
ATOM   1870  C5* U   A  98      116.442  37.788  24.017  1.00 85.58      A16S
ATOM   1871  C4* U   A  98      116.732  36.643  23.083  1.00 85.58      A16S
ATOM   1872  O4* U   A  98      115.677  35.651  23.149  1.00 85.58      A16S
ATOM   1873  C1* U   A  98      115.582  34.979  21.904  1.00 85.58      A16S
ATOM   1874  N1  U   A  98      114.208  35.083  21.389  1.00 54.69      A16S
ATOM   1875  C6  U   A  98      113.374  36.121  21.732  1.00 54.69      A16S
ATOM   1876  C2  U   A  98      113.780  34.086  20.530  1.00 54.69      A16S
ATOM   1877  O2  U   A  98      114.493  33.159  20.186  1.00 54.69      A16S
ATOM   1878  N3  U   A  98      112.491  34.217  20.081  1.00 54.69      A16S
ATOM   1879  C4  U   A  98      111.605  35.222  20.387  1.00 54.69      A16S
ATOM   1880  O4  U   A  98      110.458  35.173  19.938  1.00 54.69      A16S
ATOM   1881  C5  U   A  98      112.122  36.224  21.270  1.00 54.69      A16S
ATOM   1882  C2* U   A  98      116.595  35.612  20.958  1.00 85.58      A16S
ATOM   1883  O2* U   A  98      117.762  34.816  20.941  1.00 85.58      A16S
ATOM   1884  C3* U   A  98      116.813  36.970  21.609  1.00 85.58      A16S
ATOM   1885  O3* U   A  98      118.054  37.533  21.252  1.00 85.58      A16S
ATOM   1886  P   C   A  99      118.151  38.424  19.924  1.00 69.33      A16S
ATOM   1887  O1P C   A  99      119.412  39.187  20.027  1.00 47.21      A16S
ATOM   1888  O2P C   A  99      116.866  39.152  19.716  1.00 47.21      A16S
ATOM   1889  O5* C   A  99      118.274  37.343  18.767  1.00 69.33      A16S
ATOM   1890  C5* C   A  99      119.340  36.385  18.763  1.00 69.33      A16S
ATOM   1891  C4* C   A  99      119.190  35.457  17.585  1.00 69.33      A16S
ATOM   1892  O4* C   A  99      118.080  34.549  17.803  1.00 69.33      A16S
ATOM   1893  C1* C   A  99      117.419  34.299  16.577  1.00 69.33      A16S
ATOM   1894  N1  C   A  99      116.021  34.744  16.699  1.00 47.21      A16S
ATOM   1895  C6  C   A  99      115.683  35.823  17.468  1.00 47.21      A16S
ATOM   1896  C2  C   A  99      115.030  34.041  15.995  1.00 47.21      A16S
ATOM   1897  O2  C   A  99      115.355  33.057  15.322  1.00 47.21      A16S
ATOM   1898  N3  C   A  99      113.743  34.452  16.064  1.00 47.21      A16S
ATOM   1899  C4  C   A  99      113.426  35.514  16.801  1.00 47.21      A16S
ATOM   1900  N4  C   A  99      112.148  35.893  16.817  1.00 47.21      A16S
ATOM   1901  C5  C   A  99      114.410  36.240  17.549  1.00 47.21      A16S
ATOM   1902  C2* C   A  99      118.172  35.049  15.480  1.00 69.33      A16S
ATOM   1903  O2* C   A  99      119.090  34.177  14.850  1.00 69.33      A16S
ATOM   1904  C3* C   A  99      118.852  36.149  16.279  1.00 69.33      A16S
ATOM   1905  O3* C   A  99      119.998  36.690  15.653  1.00 69.33      A16S
ATOM   1906  Pj  A   A 101      119.933  38.183  15.066  1.00 62.17      A16S
ATOM   1907  O1P A   A 101      121.226  38.431  14.365  1.00 44.91      A16S
ATOM   1908  O2P A   A 101      119.487  39.121  16.136  1.00 44.91      A16S
ATOM   1909  O5* A   A 101      118.779  38.092  13.974  1.00 62.17      A16S
ATOM   1910  C5* A   A 101      119.083  38.154  12.567  1.00 62.17      A16S
ATOM   1911  C4* A   A 101      118.789  36.829  11.911  1.00 62.17      A16S
ATOM   1912  O4* A   A 101      117.996  36.024  12.814  1.00 62.17      A16S
ATOM   1913  C1* A   A 101      117.003  35.329  12.089  1.00 62.17      A16S
ATOM   1914  N9  A   A 101      115.695  35.738  12.599  1.00 44.91      A16S
ATOM   1915  C4  A   A 101      114.474  35.277  12.174  1.00 44.91      A16S
ATOM   1916  N3  A   A 101      114.237  34.374  11.212  1.00 44.91      A16S
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ATOM   1917  C2  A   A 101     112.926  34.173  11.069  1.00 44.91      A16S
ATOM   1918  N1  A   A 101     111.902  34.735  11.727  1.00 44.91      A16S
ATOM   1919  C6  A   A 101     112.178  35.643  12.684  1.00 44.91      A16S
ATOM   1920  N6  A   A 101     111.162  36.206  13.330  1.00 44.91      A16S
ATOM   1921  C5  A   A 101     113.533  35.939  12.936  1.00 44.91      A16S
ATOM   1922  N7  A   A 101     114.149  36.801  13.827  1.00 44.91      A16S
ATOM   1923  C8  A   A 101     115.427  36.643  13.587  1.00 44.91      A16S
ATOM   1924  C2* A   A 101     117.209  35.622  10.602  1.00 62.17      A16S
ATOM   1925  O2* A   A 101     117.954  34.575  10.021  1.00 62.17      A16S
ATOM   1926  C3* A   A 101     117.960  36.946  10.644  1.00 62.17      A16S
ATOM   1927  O3* A   A 101     118.745  37.197   9.480  1.00 62.17      A16S
ATOM   1928  P   G   A 102     118.155  38.145   8.318  1.00 54.11      A16S
ATOM   1929  O1P G   A 102     119.197  38.310   7.277  1.00 36.00      A16S
ATOM   1930  O2P G   A 102     117.545  39.343   8.941  1.00 36.00      A16S
ATOM   1931  O5* G   A 102     116.971  37.300   7.674  1.00 54.11      A16S
ATOM   1932  C5* G   A 102     117.225  35.994   7.162  1.00 54.11      A16S
ATOM   1933  C4* G   A 102     115.939  35.308   6.812  1.00 54.11      A16S
ATOM   1934  O4* G   A 102     115.178  35.002   8.006  1.00 54.11      A16S
ATOM   1935  C1* G   A 102     113.790  35.045   7.701  1.00 54.11      A16S
ATOM   1936  N9  G   A 102     113.149  36.028   8.565  1.00 36.00      A16S
ATOM   1937  C4  G   A 102     111.798  36.240   8.692  1.00 36.00      A16S
ATOM   1938  N3  G   A 102     110.826  35.559   8.054  1.00 36.00      A16S
ATOM   1939  C2  G   A 102     109.622  35.996   8.394  1.00 36.00      A16S
ATOM   1940  N2  G   A 102     108.524  35.416   7.883  1.00 36.00      A16S
ATOM   1941  N1  G   A 102     109.405  37.028   9.268  1.00 36.00      A16S
ATOM   1942  C6  G   A 102     110.398  37.733   9.927  1.00 36.00      A16S
ATOM   1943  O6  G   A 102     110.098  38.633  10.696  1.00 36.00      A16S
ATOM   1944  C5  G   A 102     111.675  37.272   9.591  1.00 36.00      A16S
ATOM   1945  N7  G   A 102     112.918  37.694  10.030  1.00 36.00      A16S
ATOM   1946  C8  G   A 102     113.763  36.930   9.396  1.00 36.00      A16S
ATOM   1947  C2* G   A 102     113.650  35.432   6.229  1.00 54.11      A16S
ATOM   1948  O2* G   A 102     113.493  34.273   5.442  1.00 54.11      A16S
ATOM   1949  C3* G   A 102     114.980  36.118   5.972  1.00 54.11      A16S
ATOM   1950  O3* G   A 102     115.335  36.116   4.613  1.00 54.11      A16S
ATOM   1951  P   C   A 103     115.182  37.470   3.779  1.00 35.03      A16S
ATOM   1952  O1P C   A 103     115.963  37.301   2.535  1.00 41.52      A16S
ATOM   1953  O2P C   A 103     115.524  38.575   4.723  1.00 41.52      A16S
ATOM   1954  O5* C   A 103     113.627  37.523   3.424  1.00 35.03      A16S
ATOM   1955  C5* C   A 103     113.032  36.478   2.657  1.00 35.03      A16S
ATOM   1956  C4* C   A 103     111.530  36.508   2.779  1.00 35.03      A16S
ATOM   1957  O4* C   A 103     111.109  36.247   4.138  1.00 35.03      A16S
ATOM   1958  C1* C   A 103     109.875  36.905   4.389  1.00 35.03      A16S
ATOM   1959  N1  C   A 103     110.076  37.890   5.467  1.00 41.52      A16S
ATOM   1960  C6  C   A 103     111.324  38.147   5.964  1.00 41.52      A16S
ATOM   1961  C2  C   A 103     108.967  38.576   5.965  1.00 41.52      A16S
ATOM   1962  O2  C   A 103     107.846  38.319   5.503  1.00 41.52      A16S
ATOM   1963  N3  C   A 103     109.143  39.503   6.932  1.00 41.52      A16S
ATOM   1964  C4  C   A 103     110.367  39.754   7.401  1.00 41.52      A16S
ATOM   1965  N4  C   A 103     110.500  40.688   8.348  1.00 41.52      A16S
ATOM   1966  C5  C   A 103     111.512  39.063   6.919  1.00 41.52      A16S
ATOM   1967  C2* C   A 103     109.475  37.606   3.097  1.00 35.03      A16S
ATOM   1968  O2* C   A 103     108.658  36.755   2.323  1.00 35.03      A16S
ATOM   1969  C3* C   A 103     110.828  37.802   2.446  1.00 35.03      A16S
ATOM   1970  O3* C   A 103     110.699  37.966   1.067  1.00 35.03      A16S
ATOM   1971  P   G   A 104     111.141  39.349   0.408  1.00 40.34      A16S
ATOM   1972  O1P G   A 104     110.916  39.163  -1.044  1.00 35.34      A16S
ATOM   1973  O2P G   A 104     112.526  39.640   0.908  1.00 35.34      A16S
ATOM   1974  O5* G   A 104     110.069  40.372   1.000  1.00 40.34      A16S
ATOM   1975  C5* G   A 104     108.672  40.187   0.721  1.00 40.34      A16S
ATOM   1976  C4* G   A 104     107.823  41.123   1.552  1.00 40.34      A16S
ATOM   1977  O4* G   A 104     107.958  40.803   2.958  1.00 40.34      A16S
ATOM   1978  C1* G   A 104     107.816  41.983   3.732  1.00 40.34      A16S
ATOM   1979  N9  G   A 104     109.054  42.194   4.469  1.00 35.34      A16S
ATOM   1980  C4  G   A 104     109.278  43.116   5.468  1.00 35.34      A16S
ATOM   1981  N3  G   A 104     108.394  44.013   5.936  1.00 35.34      A16S
ATOM   1982  C2  G   A 104     108.904  44.739   6.921  1.00 35.34      A16S
ATOM   1983  N2  G   A 104     108.167  45.682   7.512  1.00 35.34      A16S
ATOM   1984  N1  G   A 104     110.170  44.597   7.403  1.00 35.34      A16S
ATOM   1985  C6  G   A 104     111.093  43.680   6.940  1.00 35.34      A16S
ATOM   1986  O6  G   A 104     112.209  43.622   7.460  1.00 35.34      A16S
ATOM   1987  C5  G   A 104     110.569  42.898   5.881  1.00 35.34      A16S
ATOM   1988  N7  G   A 104     111.155  41.874   5.146  1.00 35.34      A16S
ATOM   1989  C8  G   A 104     110.224  41.494   4.318  1.00 35.34      A16S
ATOM   1990  C2* G   A 104     107.514  43.126   2.774  1.00 40.34      A16S
ATOM   1991  O2* G   A 104     106.111  43.249   2.646  1.00 40.34      A16S
ATOM   1992  C3* G   A 104     108.134  42.611   1.487  1.00 40.34      A16S
ATOM   1993  O3* G   A 104     107.562  43.248   0.357  1.00 40.34      A16S
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ATOM   1994  P    G   A 105     108.338  44.477  -0.327  1.00 48.48      A16S
ATOM   1995  O1P  G   A 105     107.471  44.818  -1.478  1.00 33.02      A16S
ATOM   1996  O2P  G   A 105     109.759  44.125  -0.552  1.00 33.02      A16S
ATOM   1997  O5*  G   A 105     108.316  45.646   0.760  1.00 48.48      A16S
ATOM   1998  C5*  G   A 105     107.080  46.289   1.081  1.00 48.48      A16S
ATOM   1999  C4*  G   A 105     107.237  47.290   2.210  1.00 48.48      A16S
ATOM   2000  O4*  G   A 105     107.736  46.670   3.416  1.00 48.48      A16S
ATOM   2001  C1*  G   A 105     108.167  47.682   4.303  1.00 48.48      A16S
ATOM   2002  N9   G   A 105     109.443  47.310   4.903  1.00 33.02      A16S
ATOM   2003  C4   G   A 105     110.003  47.886   6.017  1.00 33.02      A16S
ATOM   2004  N3   G   A 105     109.472  48.891   6.740  1.00 33.02      A16S
ATOM   2005  C2   G   A 105     110.258  49.249   7.745  1.00 33.02      A16S
ATOM   2006  N2   G   A 105     109.897  50.260   8.560  1.00 33.02      A16S
ATOM   2007  N1   G   A 105     111.458  48.657   8.024  1.00 33.02      A16S
ATOM   2008  C6   G   A 105     112.025  47.626   7.295  1.00 33.02      A16S
ATOM   2009  O6   G   A 105     113.125  47.178   7.629  1.00 33.02      A16S
ATOM   2010  C5   G   A 105     111.197  47.234   6.207  1.00 33.02      A16S
ATOM   2011  N7   G   A 105     111.387  46.261   5.233  1.00 33.02      A16S
ATOM   2012  C8   G   A 105     110.320  46.342   4.485  1.00 33.02      A16S
ATOM   2013  C2*  G   A 105     108.242  48.976   3.501  1.00 48.48      A16S
ATOM   2014  O2*  G   A 105     107.097  49.727   3.849  1.00 48.48      A16S
ATOM   2015  C3*  G   A 105     108.175  48.467   2.062  1.00 48.48      A16S
ATOM   2016  O3*  G   A 105     107.640  49.465   1.210  1.00 48.48      A16S
ATOM   2017  P    C   A 106     108.634  50.382   0.340  1.00 42.85      A16S
ATOM   2018  O1P  C   A 106     107.711  51.077  -0.586  1.00 31.01      A16S
ATOM   2019  O2P  C   A 106     109.777  49.592  -0.220  1.00 31.01      A16S
ATOM   2020  O5*  C   A 106     109.229  51.404   1.405  1.00 42.85      A16S
ATOM   2021  C5*  C   A 106     108.404  52.423   1.959  1.00 42.85      A16S
ATOM   2022  C4*  C   A 106     109.146  53.179   3.024  1.00 42.85      A16S
ATOM   2023  O4*  C   A 106     109.283  52.356   4.211  1.00 42.85      A16S
ATOM   2024  C1*  C   A 106     110.496  52.670   4.874  1.00 42.85      A16S
ATOM   2025  N1   C   A 106     111.369  51.499   4.822  1.00 31.01      A16S
ATOM   2026  C6   C   A 106     111.226  50.569   3.835  1.00 31.01      A16S
ATOM   2027  C2   C   A 106     112.374  51.362   5.781  1.00 31.01      A16S
ATOM   2028  O2   C   A 106     112.485  52.222   6.662  1.00 31.01      A16S
ATOM   2029  N3   C   A 106     113.208  50.310   5.714  1.00 31.01      A16S
ATOM   2030  C4   C   A 106     113.082  49.430   4.725  1.00 31.01      A16S
ATOM   2031  N4   C   A 106     113.952  48.441   4.663  1.00 31.01      A16S
ATOM   2032  C5   C   A 106     112.057  49.535   3.743  1.00 31.01      A16S
ATOM   2033  C2*  C   A 106     111.152  53.807   4.101  1.00 42.85      A16S
ATOM   2034  O2*  C   A 106     110.769  55.025   4.713  1.00 42.85      A16S
ATOM   2035  C3*  C   A 106     110.568  53.599   2.704  1.00 42.85      A16S
ATOM   2036  O3*  C   A 106     110.644  54.748   1.876  1.00 42.85      A16S
ATOM   2037  P    G   A 107     111.993  55.039   1.045  1.00 36.44      A16S
ATOM   2038  O1P  G   A 107     111.752  56.372   0.453  1.00 44.94      A16S
ATOM   2039  O2P  G   A 107     112.376  53.908   0.155  1.00 44.94      A16S
ATOM   2040  O5*  G   A 107     113.107  55.160   2.170  1.00 36.44      A16S
ATOM   2041  C5*  G   A 107     113.100  56.274   3.066  1.00 36.44      A16S
ATOM   2042  C4*  G   A 107     114.277  56.204   4.003  1.00 36.44      A16S
ATOM   2043  O4*  G   A 107     114.132  55.075   4.904  1.00 36.44      A16S
ATOM   2044  C1*  G   A 107     115.406  54.536   5.196  1.00 36.44      A16S
ATOM   2045  N9   G   A 107     115.467  53.206   4.602  1.00 44.94      A16S
ATOM   2046  C4   G   A 107     116.445  52.260   4.808  1.00 44.94      A16S
ATOM   2047  N3   G   A 107     117.498  52.376   5.639  1.00 44.94      A16S
ATOM   2048  C2   G   A 107     118.277  51.316   5.589  1.00 44.94      A16S
ATOM   2049  N2   G   A 107     119.376  51.263   6.342  1.00 44.94      A16S
ATOM   2050  N1   G   A 107     118.042  50.229   4.794  1.00 44.94      A16S
ATOM   2051  C6   G   A 107     116.962  50.089   3.938  1.00 44.94      A16S
ATOM   2052  O6   G   A 107     116.842  49.068   3.267  1.00 44.94      A16S
ATOM   2053  C5   G   A 107     116.120  51.212   3.977  1.00 44.94      A16S
ATOM   2054  N7   G   A 107     114.945  51.475   3.287  1.00 44.94      A16S
ATOM   2055  C8   G   A 107     114.589  52.664   3.694  1.00 44.94      A16S
ATOM   2056  C2*  G   A 107     116.437  55.436   4.515  1.00 36.44      A16S
ATOM   2057  O2*  G   A 107     116.841  56.512   5.336  1.00 36.44      A16S
ATOM   2058  C3*  G   A 107     115.630  55.973   3.360  1.00 36.44      A16S
ATOM   2059  O3*  G   A 107     116.222  57.122   2.825  1.00 36.44      A16S
ATOM   2060  P    G   A 108     117.039  56.997   1.459  1.00 30.64      A16S
ATOM   2061  O1P  G   A 108     117.434  58.379   1.079  1.00 53.46      A16S
ATOM   2062  O2P  G   A 108     116.221  56.177   0.523  1.00 53.46      A16S
ATOM   2063  O5*  G   A 108     118.340  56.189   1.886  1.00 30.64      A16S
ATOM   2064  C5*  G   A 108     119.022  56.527   3.095  1.00 30.64      A16S
ATOM   2065  C4*  G   A 108     120.011  55.457   3.474  1.00 30.64      A16S
ATOM   2066  O4*  G   A 108     119.378  54.135   3.447  1.00 30.64      A16S
ATOM   2067  C1*  G   A 108     120.388  53.134   3.391  1.00 30.64      A16S
ATOM   2068  N9   G   A 108     120.141  52.174   2.311  1.00 53.46      A16S
ATOM   2069  C4   G   A 108     119.105  52.126   1.421  1.00 53.46      A16S
ATOM   2070  N3   G   A 108     118.038  52.940   1.403  1.00 53.46      A16S
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ATOM   2071  C2  G   A 108     117.235  52.666   0.382  1.00 53.46      A16S
ATOM   2072  N2  G   A 108     116.100  53.387   0.188  1.00 53.46      A16S
ATOM   2073  N1  G   A 108     117.479  51.667  -0.538  1.00 53.46      A16S
ATOM   2074  C6  G   A 108     118.584  50.826  -0.528  1.00 53.46      A16S
ATOM   2075  O6  G   A 108     118.733  49.989  -1.411  1.00 53.46      A16S
ATOM   2076  C5  G   A 108     119.423  51.095   0.548  1.00 53.46      A16S
ATOM   2077  N7  G   A 108     120.604  50.475   0.915  1.00 53.46      A16S
ATOM   2078  C8  G   A 108     120.991  51.136   1.968  1.00 53.46      A16S
ATOM   2079  C2* G   A 108     121.685  53.863   3.084  1.00 30.64      A16S
ATOM   2080  O2* G   A 108     122.433  54.007   4.271  1.00 30.64      A16S
ATOM   2081  C3* G   A 108     121.175  55.194   2.544  1.00 30.64      A16S
ATOM   2082  O3* G   A 108     122.216  56.144   2.491  1.00 30.64      A16S
ATOM   2083  P   A   A 109     123.220  56.106   1.231  1.00 41.52      A16S
ATOM   2084  O1P A   A 109     123.492  54.686   0.879  1.00 49.29      A16S
ATOM   2085  O2P A   A 109     124.358  57.011   1.514  1.00 49.29      A16S
ATOM   2086  O5* A   A 109     122.349  56.666   0.028  1.00 41.52      A16S
ATOM   2087  C5* A   A 109     121.656  57.908   0.144  1.00 41.52      A16S
ATOM   2088  C4* A   A 109     121.868  58.744  -1.098  1.00 41.52      A16S
ATOM   2089  O4* A   A 109     121.584  57.948  -2.281  1.00 41.52      A16S
ATOM   2090  C1* A   A 109     120.609  58.600  -3.058  1.00 41.52      A16S
ATOM   2091  N9  A   A 109     119.775  57.586  -3.690  1.00 49.29      A16S
ATOM   2092  C4  A   A 109     119.146  56.533  -3.079  1.00 49.29      A16S
ATOM   2093  N3  A   A 109     119.140  56.238  -1.773  1.00 49.29      A16S
ATOM   2094  C2  A   A 109     118.443  55.138  -1.549  1.00 49.29      A16S
ATOM   2095  N1  A   A 109     117.805  54.351  -2.413  1.00 49.29      A16S
ATOM   2096  C6  A   A 109     117.835  54.671  -3.719  1.00 49.29      A16S
ATOM   2097  N6  A   A 109     117.213  53.869  -4.587  1.00 49.29      A16S
ATOM   2098  C5  A   A 109     118.530  55.827  -4.087  1.00 49.29      A16S
ATOM   2099  N7  A   A 109     118.740  56.441  -5.313  1.00 49.29      A16S
ATOM   2100  C8  A   A 109     119.478  57.479  -5.019  1.00 49.29      A16S
ATOM   2101  C2* A   A 109     119.870  59.544  -2.109  1.00 41.52      A16S
ATOM   2102  O2* A   A 109     119.290  60.604  -2.838  1.00 41.52      A16S
ATOM   2103  C3* A   A 109     120.996  59.994  -1.186  1.00 41.52      A16S
ATOM   2104  O3* A   A 109     121.713  61.027  -1.853  1.00 41.52      A16S
ATOM   2105  P   C   A 110     122.882  61.818  -1.093  1.00 41.96      A16S
ATOM   2106  O1P C   A 110     123.276  62.972  -1.939  1.00 59.84      A16S
ATOM   2107  O2P C   A 110     123.918  60.837  -0.672  1.00 59.84      A16S
ATOM   2108  O5* C   A 110     122.159  62.371   0.208  1.00 41.96      A16S
ATOM   2109  C5* C   A 110     120.954  63.122   0.114  1.00 41.96      A16S
ATOM   2110  C4* C   A 110     120.455  63.447   1.491  1.00 41.96      A16S
ATOM   2111  O4* C   A 110     120.023  62.230   2.149  1.00 41.96      A16S
ATOM   2112  C1* C   A 110     120.268  62.327   3.542  1.00 41.96      A16S
ATOM   2113  N1  C   A 110     121.123  61.206   3.984  1.00 59.84      A16S
ATOM   2114  C6  C   A 110     121.635  60.300   3.096  1.00 59.84      A16S
ATOM   2115  C2  C   A 110     121.397  61.079   5.356  1.00 59.84      A16S
ATOM   2116  O2  C   A 110     120.947  61.931   6.142  1.00 59.84      A16S
ATOM   2117  N3  C   A 110     122.146  60.042   5.791  1.00 59.84      A16S
ATOM   2118  C4  C   A 110     122.623  59.156   4.918  1.00 59.84      A16S
ATOM   2119  N4  C   A 110     123.341  58.140   5.398  1.00 59.84      A16S
ATOM   2120  C5  C   A 110     122.381  59.271   3.514  1.00 59.84      A16S
ATOM   2121  C2* C   A 110     120.904  63.690   3.803  1.00 41.96      A16S
ATOM   2122  O2* C   A 110     119.882  64.580   4.187  1.00 41.96      A16S
ATOM   2123  C3* C   A 110     121.485  64.033   2.440  1.00 41.96      A16S
ATOM   2124  O3* C   A 110     121.623  65.431   2.281  1.00 41.96      A16S
ATOM   2125  P   G   A 111     123.057  66.119   2.497  1.00 38.42      A16S
ATOM   2126  O1P G   A 111     122.843  67.581   2.306  1.00 50.75      A16S
ATOM   2127  O2P G   A 111     124.069  65.396   1.665  1.00 50.75      A16S
ATOM   2128  O5* G   A 111     123.427  65.839   4.020  1.00 38.42      A16S
ATOM   2129  C5* G   A 111     122.650  66.386   5.093  1.00 38.42      A16S
ATOM   2130  C4* G   A 111     123.042  65.731   6.394  1.00 38.42      A16S
ATOM   2131  O4* G   A 111     122.613  64.345   6.412  1.00 38.42      A16S
ATOM   2132  C1* G   A 111     123.601  63.539   7.030  1.00 38.42      A16S
ATOM   2133  N9  G   A 111     124.162  62.664   6.006  1.00 50.75      A16S
ATOM   2134  C4  G   A 111     124.802  61.465   6.197  1.00 50.75      A16S
ATOM   2135  N3  G   A 111     124.966  60.832   7.371  1.00 50.75      A16S
ATOM   2136  C2  G   A 111     125.643  59.709   7.232  1.00 50.75      A16S
ATOM   2137  N2  G   A 111     125.878  58.927   8.297  1.00 50.75      A16S
ATOM   2138  N1  G   A 111     126.133  59.260   6.043  1.00 50.75      A16S
ATOM   2139  C6  G   A 111     125.977  59.894   4.824  1.00 50.75      A16S
ATOM   2140  O6  G   A 111     126.471  59.395   3.801  1.00 50.75      A16S
ATOM   2141  C5  G   A 111     125.236  61.084   4.953  1.00 50.75      A16S
ATOM   2142  N7  G   A 111     124.836  61.997   3.991  1.00 50.75      A16S
ATOM   2143  C8  G   A 111     124.195  62.909   4.658  1.00 50.75      A16S
ATOM   2144  C2* G   A 111     124.676  64.481   7.566  1.00 38.42      A16S
ATOM   2145  O2* G   A 111     124.383  64.849   8.894  1.00 38.42      A16S
ATOM   2146  C3* G   A 111     124.532  65.664   6.630  1.00 38.42      A16S
ATOM   2147  O3* G   A 111     125.005  66.846   7.207  1.00 38.42      A16S
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ATOM   2148  P    G   A 112     126.349  67.494   6.642  1.00 40.89      A16S
ATOM   2149  O1P  G   A 112     126.584  68.754   7.418  1.00 47.65      A16S
ATOM   2150  O2P  G   A 112     126.212  67.538   5.154  1.00 47.65      A16S
ATOM   2151  O5*  G   A 112     127.478  66.423   6.988  1.00 40.89      A16S
ATOM   2152  C5*  G   A 112     127.875  66.184   8.340  1.00 40.89      A16S
ATOM   2153  C4*  G   A 112     128.986  65.171   8.383  1.00 40.89      A16S
ATOM   2154  O4*  G   A 112     128.496  63.907   7.878  1.00 40.89      A16S
ATOM   2155  C1*  G   A 112     129.549  63.192   7.263  1.00 40.89      A16S
ATOM   2156  N9   G   A 112     129.202  62.972   5.868  1.00 47.65      A16S
ATOM   2157  C4   G   A 112     129.953  62.293   4.944  1.00 47.65      A16S
ATOM   2158  N3   G   A 112     131.123  61.677   5.178  1.00 47.65      A16S
ATOM   2159  C2   G   A 112     131.612  61.127   4.077  1.00 47.65      A16S
ATOM   2160  N2   G   A 112     132.767  60.438   4.117  1.00 47.65      A16S
ATOM   2161  N1   G   A 112     131.010  61.203   2.852  1.00 47.65      A16S
ATOM   2162  C6   G   A 112     129.817  61.844   2.593  1.00 47.65      A16S
ATOM   2163  O6   G   A 112     129.386  61.879   1.448  1.00 47.65      A16S
ATOM   2164  C5   G   A 112     129.265  62.407   3.759  1.00 47.65      A16S
ATOM   2165  N7   G   A 112     128.086  63.112   3.941  1.00 47.65      A16S
ATOM   2166  C8   G   A 112     128.089  63.422   5.208  1.00 47.65      A16S
ATOM   2167  C2*  G   A 112     130.799  64.052   7.372  1.00 40.89      A16S
ATOM   2168  O2*  G   A 112     131.538  63.657   8.512  1.00 40.89      A16S
ATOM   2169  C3*  G   A 112     130.198  65.438   7.520  1.00 40.89      A16S
ATOM   2170  O3*  G   A 112     131.113  66.351   8.080  1.00 40.89      A16S
ATOM   2171  P    G   A 113     132.010  67.249   7.092  1.00 38.33      A16S
ATOM   2172  O1P  G   A 113     132.772  68.224   7.932  1.00 30.18      A16S
ATOM   2173  O2P  G   A 113     131.119  67.758   6.025  1.00 30.18      A16S
ATOM   2174  O5*  G   A 113     132.988  66.213   6.363  1.00 38.33      A16S
ATOM   2175  C5*  G   A 113     133.766  65.255   7.112  1.00 38.33      A16S
ATOM   2176  C4*  G   A 113     134.653  64.445   6.194  1.00 38.33      A16S
ATOM   2177  O4*  G   A 113     133.859  63.540   5.396  1.00 38.33      A16S
ATOM   2178  C1*  G   A 113     134.463  63.367   4.120  1.00 38.33      A16S
ATOM   2179  N9   G   A 113     133.509  63.743   3.077  1.00 30.18      A16S
ATOM   2180  C4   G   A 113     133.647  63.539   1.724  1.00 30.18      A16S
ATOM   2181  N3   G   A 113     134.703  62.979   1.108  1.00 30.18      A16S
ATOM   2182  C2   G   A 113     134.522  62.895  -0.201  1.00 30.18      A16S
ATOM   2183  N2   G   A 113     135.468  62.349  -0.966  1.00 30.18      A16S
ATOM   2184  N1   G   A 113     133.400  63.336  -0.853  1.00 30.18      A16S
ATOM   2185  C6   G   A 113     132.306  63.915  -0.237  1.00 30.18      A16S
ATOM   2186  O6   G   A 113     131.345  64.274  -0.909  1.00 30.18      A16S
ATOM   2187  C5   G   A 113     132.483  64.005   1.166  1.00 30.18      A16S
ATOM   2188  N7   G   A 113     131.640  64.506   2.139  1.00 30.18      A16S
ATOM   2189  C8   G   A 113     132.293  64.339   3.252  1.00 30.18      A16S
ATOM   2190  C2*  G   A 113     135.741  64.190   4.100  1.00 38.33      A16S
ATOM   2191  O2*  G   A 113     136.801  63.336   4.456  1.00 38.33      A16S
ATOM   2192  C3*  G   A 113     135.445  65.230   5.168  1.00 38.33      A16S
ATOM   2193  O3*  G   A 113     136.610  65.832   5.700  1.00 38.33      A16S
ATOM   2194  P    U   A 114     137.041  67.290   5.173  1.00 27.42      A16S
ATOM   2195  O1P  U   A 114     138.087  67.802   6.096  1.00 43.54      A16S
ATOM   2196  O2P  U   A 114     135.811  68.093   4.960  1.00 43.54      A16S
ATOM   2197  O5*  U   A 114     137.697  66.984   3.756  1.00 27.42      A16S
ATOM   2198  C5*  U   A 114     138.904  66.221   3.673  1.00 27.42      A16S
ATOM   2199  C4*  U   A 114     139.130  65.760   2.262  1.00 27.42      A16S
ATOM   2200  O4*  U   A 114     137.944  65.065   1.828  1.00 27.42      A16S
ATOM   2201  C1*  U   A 114     137.736  65.290   0.453  1.00 27.42      A16S
ATOM   2202  N1   U   A 114     136.406  65.882   0.260  1.00 43.54      A16S
ATOM   2203  C6   U   A 114     135.677  66.374   1.304  1.00 43.54      A16S
ATOM   2204  C2   U   A 114     135.902  65.889  -1.016  1.00 43.54      A16S
ATOM   2205  O2   U   A 114     136.543  65.512  -1.967  1.00 43.54      A16S
ATOM   2206  N3   U   A 114     134.624  66.357  -1.141  1.00 43.54      A16S
ATOM   2207  C4   U   A 114     133.822  66.830  -0.139  1.00 43.54      A16S
ATOM   2208  O4   U   A 114     132.653  67.139  -0.390  1.00 43.54      A16S
ATOM   2209  C5   U   A 114     134.436  66.834   1.155  1.00 43.54      A16S
ATOM   2210  C2*  U   A 114     138.898  66.125  -0.057  1.00 27.42      A16S
ATOM   2211  O2*  U   A 114     139.851  65.171  -0.444  1.00 27.42      A16S
ATOM   2212  C3*  U   A 114     139.345  66.837   1.209  1.00 27.42      A16S
ATOM   2213  O3*  U   A 114     140.720  67.209   1.147  1.00 27.42      A16S
ATOM   2214  P    G   A 115     141.120  68.720   0.781  1.00 42.55      A16S
ATOM   2215  O1P  G   A 115     142.520  68.945   1.223  1.00 36.14      A16S
ATOM   2216  O2P  G   A 115     140.048  69.602   1.271  1.00 36.14      A16S
ATOM   2217  O5*  G   A 115     141.060  68.780  -0.804  1.00 42.55      A16S
ATOM   2218  C5*  G   A 115     141.960  68.013  -1.622  1.00 42.55      A16S
ATOM   2219  C4*  G   A 115     141.466  68.034  -3.039  1.00 42.55      A16S
ATOM   2220  O4*  G   A 115     140.058  67.776  -2.917  1.00 42.55      A16S
ATOM   2221  C1*  G   A 115     139.349  68.550  -3.847  1.00 42.55      A16S
ATOM   2222  N9   G   A 115     138.054  68.904  -3.274  1.00 36.14      A16S
ATOM   2223  C4   G   A 115     136.893  69.121  -3.985  1.00 36.14      A16S
ATOM   2224  N3   G   A 115     136.774  69.109  -5.328  1.00 36.14      A16S
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ATOM   2225  C2  G   A 115     135.534  69.340  -5.709  1.00 36.14      A16S
ATOM   2226  N2  G   A 115     135.234  69.378  -7.014  1.00 36.14      A16S
ATOM   2227  N1  G   A 115     134.491  69.550  -4.847  1.00 36.14      A16S
ATOM   2228  C6  G   A 115     134.588  69.552  -3.468  1.00 36.14      A16S
ATOM   2229  O6  G   A 115     133.580  69.723  -2.788  1.00 36.14      A16S
ATOM   2230  C5  G   A 115     135.917  69.329  -3.038  1.00 36.14      A16S
ATOM   2231  N7  G   A 115     136.455  69.282  -1.757  1.00 36.14      A16S
ATOM   2232  C8  G   A 115     137.725  69.035  -1.945  1.00 36.14      A16S
ATOM   2233  C2* G   A 115     140.254  69.625  -4.451  1.00 42.55      A16S
ATOM   2234  O2* G   A 115     140.262  69.469  -5.849  1.00 42.55      A16S
ATOM   2235  C3* G   A 115     141.569  69.404  -3.694  1.00 42.55      A16S
ATOM   2236  O3* G   A 115     142.871  69.632  -4.308  1.00 42.55      A16S
ATOM   2237  P   A   A 116     143.304  68.950  -5.720  1.00 34.38      A16S
ATOM   2238  O1P A   A 116     144.736  69.296  -5.784  1.00 41.61      A16S
ATOM   2239  O2P A   A 116     142.434  69.290  -6.872  1.00 41.61      A16S
ATOM   2240  O5* A   A 116     143.245  67.376  -5.519  1.00 34.38      A16S
ATOM   2241  C5* A   A 116     144.387  66.560  -5.885  1.00 34.38      A16S
ATOM   2242  C4* A   A 116     143.974  65.426  -6.789  1.00 34.38      A16S
ATOM   2243  O4* A   A 116     142.887  64.717  -6.153  1.00 34.38      A16S
ATOM   2244  C1* A   A 116     141.941  64.330  -7.126  1.00 34.38      A16S
ATOM   2245  N9  A   A 116     140.739  65.127  -6.922  1.00 41.61      A16S
ATOM   2246  C4  A   A 116     139.546  64.924  -7.553  1.00 41.61      A16S
ATOM   2247  N3  A   A 116     139.261  63.969  -8.443  1.00 41.61      A16S
ATOM   2248  C2  A   A 116     138.003  64.064  -8.833  1.00 41.61      A16S
ATOM   2249  N1  A   A 116     137.065  64.940  -8.461  1.00 41.61      A16S
ATOM   2250  C6  A   A 116     137.386  65.884  -7.564  1.00 41.61      A16S
ATOM   2251  N6  A   A 116     136.442  66.741  -7.185  1.00 41.61      A16S
ATOM   2252  C5  A   A 116     138.698  65.895  -7.078  1.00 41.61      A16S
ATOM   2253  N7  A   A 116     139.350  66.707  -6.166  1.00 41.61      A16S
ATOM   2254  C8  A   A 116     140.554  66.208  -6.106  1.00 41.61      A16S
ATOM   2255  C2* A   A 116     142.530  64.644  -8.494  1.00 34.38      A16S
ATOM   2256  O2* A   A 116     143.241  63.516  -8.948  1.00 34.38      A16S
ATOM   2257  C3* A   A 116     143.436  65.813  -8.159  1.00 34.38      A16S
ATOM   2258  O3* A   A 116     144.464  65.939  -9.126  1.00 34.38      A16S
ATOM   2259  P   G   A 117     144.386  67.112 -10.222  1.00 35.70      A16S
ATOM   2260  O1P G   A 117     143.924  68.330  -9.478  1.00 39.24      A16S
ATOM   2261  O2P G   A 117     145.680  67.143 -10.981  1.00 39.24      A16S
ATOM   2262  O5* G   A 117     143.238  66.644 -11.220  1.00 35.70      A16S
ATOM   2263  C5* G   A 117     143.302  65.371 -11.866  1.00 35.70      A16S
ATOM   2264  C4* G   A 117     141.956  65.015 -12.433  1.00 35.70      A16S
ATOM   2265  O4* G   A 117     141.013  64.886 -11.343  1.00 35.70      A16S
ATOM   2266  C1* G   A 117     139.761  65.427 -11.726  1.00 35.70      A16S
ATOM   2267  N9  G   A 117     139.486  66.553 -10.838  1.00 39.24      A16S
ATOM   2268  C4  G   A 117     138.317  67.261 -10.718  1.00 39.24      A16S
ATOM   2269  N3  G   A 117     137.181  67.037 -11.396  1.00 39.24      A16S
ATOM   2270  C2  G   A 117     136.228  67.879 -11.042  1.00 39.24      A16S
ATOM   2271  N2  G   A 117     135.015  67.786 -11.589  1.00 39.24      A16S
ATOM   2272  N1  G   A 117     136.383  68.871 -10.112  1.00 39.24      A16S
ATOM   2273  C6  G   A 117     137.544  69.110  -9.398  1.00 39.24      A16S
ATOM   2274  O6  G   A 117     137.573  70.004  -8.553  1.00 39.24      A16S
ATOM   2275  C5  G   A 117     138.568  68.217  -9.763  1.00 39.24      A16S
ATOM   2276  N7  G   A 117     139.865  68.117  -9.296  1.00 39.24      A16S
ATOM   2277  C8  G   A 117     140.368  67.117  -9.958  1.00 39.24      A16S
ATOM   2278  C2* G   A 117     139.864  65.832 -13.198  1.00 35.70      A16S
ATOM   2279  O2* G   A 117     139.426  64.772 -14.014  1.00 35.70      A16S
ATOM   2280  C3* G   A 117     141.357  66.069 -13.349  1.00 35.70      A16S
ATOM   2281  O3* G   A 117     141.798  65.916 -14.695  1.00 35.70      A16S
ATOM   2282  P   U   A 118     142.129  67.222 -15.567  1.00 36.56      A16S
ATOM   2283  O1P U   A 118     142.506  66.812 -16.940  1.00 42.51      A16S
ATOM   2284  O2P U   A 118     143.074  68.046 -14.770  1.00 42.51      A16S
ATOM   2285  O5* U   A 118     140.735  67.999 -15.605  1.00 36.56      A16S
ATOM   2286  C5* U   A 118     139.540  67.373 -16.116  1.00 36.56      A16S
ATOM   2287  C4* U   A 118     138.342  68.282 -15.935  1.00 36.56      A16S
ATOM   2288  O4* U   A 118     138.014  68.410 -14.526  1.00 36.56      A16S
ATOM   2289  C1* U   A 118     137.499  69.708 -14.271  1.00 36.56      A16S
ATOM   2290  N1  U   A 118     138.388  70.390 -13.318  1.00 42.51      A16S
ATOM   2291  C6  U   A 118     139.729  70.112 -13.282  1.00 42.51      A16S
ATOM   2292  C2  U   A 118     137.840  71.329 -12.465  1.00 42.51      A16S
ATOM   2293  O2  U   A 118     136.657  71.606 -12.451  1.00 42.51      A16S
ATOM   2294  N3  U   A 118     138.734  71.934 -11.623  1.00 42.51      A16S
ATOM   2295  C4  U   A 118     140.084  71.698 -11.540  1.00 42.51      A16S
ATOM   2296  O4  U   A 118     140.750  72.270 -10.678  1.00 42.51      A16S
ATOM   2297  C5  U   A 118     140.569  70.719 -12.448  1.00 42.51      A16S
ATOM   2298  C2* U   A 118     137.436  70.447 -15.606  1.00 36.56      A16S
ATOM   2299  O2* U   A 118     136.149  70.282 -16.159  1.00 36.56      A16S
ATOM   2300  C3* U   A 118     138.492  69.715 -16.418  1.00 36.56      A16S
ATOM   2301  O3* U   A 118     138.250  69.846 -17.803  1.00 36.56      A16S
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ATOM   2302  P    A   A 119     139.137  70.864 -18.667  1.00 42.22      A16S
ATOM   2303  O1P A   A 119     138.721  70.729 -20.079  1.00 32.82      A16S
ATOM   2304  O2P A   A 119     140.546  70.671 -18.320  1.00 32.82      A16S
ATOM   2305  O5* A   A 119     138.688  72.302 -18.157  1.00 42.22      A16S
ATOM   2306  C5* A   A 119     137.446  72.890 -18.592  1.00 42.22      A16S
ATOM   2307  C4* A   A 119     137.680  74.303 -19.047  1.00 42.22      A16S
ATOM   2308  O4* A   A 119     138.179  75.055 -17.929  1.00 42.22      A16S
ATOM   2309  C1* A   A 119     139.089  76.030 -18.385  1.00 42.22      A16S
ATOM   2310  N9   A   A 119     140.185  76.152 -17.421  1.00 32.82      A16S
ATOM   2311  C4   A   A 119     140.307  77.176 -16.515  1.00 32.82      A16S
ATOM   2312  N3   A   A 119     139.471  78.209 -16.342  1.00 32.82      A16S
ATOM   2313  C2   A   A 119     139.912  79.014 -15.379  1.00 32.82      A16S
ATOM   2314  N1   A   A 119     141.010  78.917 -14.630  1.00 32.82      A16S
ATOM   2315  C6   A   A 119     141.833  77.868 -14.830  1.00 32.82      A16S
ATOM   2316  N6   A   A 119     142.938  77.780 -14.091  1.00 32.82      A16S
ATOM   2317  C5   A   A 119     141.470  76.930 -15.820  1.00 32.82      A16S
ATOM   2318  N7   A   A 119     142.068  75.761 -16.267  1.00 32.82      A16S
ATOM   2319  C8   A   A 119     141.269  75.339 -17.214  1.00 32.82      A16S
ATOM   2320  C2* A   A 119     139.452  75.749 -19.847  1.00 42.22      A16S
ATOM   2321  O2* A   A 119     139.081  76.811 -20.703  1.00 42.22      A16S
ATOM   2322  C3* A   A 119     138.759  74.416 -20.106  1.00 42.22      A16S
ATOM   2323  O3* A   A 119     138.255  74.193 -21.441  1.00 42.22      A16S
ATOM   2324  P    A   A 120     136.991  75.029 -22.018  1.00 47.90      A16S
ATOM   2325  O1P A   A 120     136.886  74.616 -23.437  1.00 43.03      A16S
ATOM   2326  O2P A   A 120     137.039  76.474 -21.684  1.00 43.03      A16S
ATOM   2327  O5* A   A 120     135.728  74.367 -21.311  1.00 47.90      A16S
ATOM   2328  C5* A   A 120     135.362  73.003 -21.597  1.00 47.90      A16S
ATOM   2329  C4* A   A 120     134.205  72.587 -20.728  1.00 47.90      A16S
ATOM   2330  O4* A   A 120     134.616  72.664 -19.346  1.00 47.90      A16S
ATOM   2331  C1* A   A 120     133.600  73.265 -18.576  1.00 47.90      A16S
ATOM   2332  N9   A   A 120     134.166  74.491 -18.019  1.00 43.03      A16S
ATOM   2333  C4   A   A 120     134.738  74.614 -16.783  1.00 43.03      A16S
ATOM   2334  N3   A   A 120     134.839  73.667 -15.838  1.00 43.03      A16S
ATOM   2335  C2   A   A 120     135.487  74.138 -14.776  1.00 43.03      A16S
ATOM   2336  N1   A   A 120     136.011  75.361 -14.568  1.00 43.03      A16S
ATOM   2337  C6   A   A 120     135.893  76.285 -15.549  1.00 43.03      A16S
ATOM   2338  N6   A   A 120     136.428  77.496 -15.364  1.00 43.03      A16S
ATOM   2339  C5   A   A 120     135.218  75.909 -16.718  1.00 43.03      A16S
ATOM   2340  N7   A   A 120     134.924  76.600 -17.882  1.00 43.03      A16S
ATOM   2341  C8   A   A 120     134.291  75.720 -18.615  1.00 43.03      A16S
ATOM   2342  C2* A   A 120     132.370  73.434 -19.471  1.00 47.90      A16S
ATOM   2343  O2* A   A 120     131.559  72.291 -19.313  1.00 47.90      A16S
ATOM   2344  C3* A   A 120     132.993  73.488 -20.858  1.00 47.90      A16S
ATOM   2345  O3* A   A 120     132.132  72.917 -21.832  1.00 47.90      A16S
ATOM   2346  P    C   A 121     131.132  73.853 -22.667  1.00 42.03      A16S
ATOM   2347  O1P C   A 121     130.489  72.961 -23.669  1.00 37.01      A16S
ATOM   2348  O2P C   A 121     131.859  75.062 -23.120  1.00 37.01      A16S
ATOM   2349  O5* C   A 121     130.050  74.328 -21.598  1.00 42.03      A16S
ATOM   2350  C5* C   A 121     129.002  73.445 -21.179  1.00 42.03      A16S
ATOM   2351  C4* C   A 121     128.555  73.783 -19.784  1.00 42.03      A16S
ATOM   2352  O4* C   A 121     128.060  75.145 -19.734  1.00 42.03      A16S
ATOM   2353  C1* C   A 121     126.734  75.158 -19.258  1.00 42.03      A16S
ATOM   2354  N1   C   A 121     126.002  76.252 -19.929  1.00 37.01      A16S
ATOM   2355  C6   C   A 121     125.751  76.215 -21.273  1.00 37.01      A16S
ATOM   2356  C2   C   A 121     125.583  77.346 -19.171  1.00 37.01      A16S
ATOM   2357  O2   C   A 121     125.754  77.332 -17.942  1.00 37.01      A16S
ATOM   2358  N3   C   A 121     124.989  78.388 -19.791  1.00 37.01      A16S
ATOM   2359  C4   C   A 121     124.778  78.351 -21.105  1.00 37.01      A16S
ATOM   2360  N4   C   A 121     124.221  79.415 -21.679  1.00 37.01      A16S
ATOM   2361  C5   C   A 121     125.140  77.229 -21.891  1.00 37.01      A16S
ATOM   2362  C2* C   A 121     126.194  73.755 -19.512  1.00 42.03      A16S
ATOM   2363  O2* C   A 121     125.162  73.477 -18.601  1.00 42.03      A16S
ATOM   2364  C3* C   A 121     127.433  72.902 -19.273  1.00 42.03      A16S
ATOM   2365  O3* C   A 121     127.617  72.755 -17.880  1.00 42.03      A16S
ATOM   2366  P    G   A 122     128.263  71.416 -17.289  1.00 42.20      A16S
ATOM   2367  O1P G   A 122     127.267  70.319 -17.501  1.00 35.41      A16S
ATOM   2368  O2P G   A 122     129.647  71.271 -17.793  1.00 35.41      A16S
ATOM   2369  O5* G   A 122     128.363  71.740 -15.735  1.00 42.20      A16S
ATOM   2370  C5* G   A 122     128.849  70.773 -14.801  1.00 42.20      A16S
ATOM   2371  C4* G   A 122     129.777  71.431 -13.819  1.00 42.20      A16S
ATOM   2372  O4* G   A 122     130.987  71.832 -14.510  1.00 42.20      A16S
ATOM   2373  C1* G   A 122     131.469  73.049 -13.963  1.00 42.20      A16S
ATOM   2374  N9   G   A 122     131.456  74.068 -15.006  1.00 35.41      A16S
ATOM   2375  C4   G   A 122     131.998  75.329 -14.920  1.00 35.41      A16S
ATOM   2376  N3   G   A 122     132.644  75.842 -13.859  1.00 35.41      A16S
ATOM   2377  C2   G   A 122     133.034  77.074 -14.076  1.00 35.41      A16S
ATOM   2378  N2   G   A 122     133.692  77.736 -13.125  1.00 35.41      A16S
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ATOM   2379  N1  G   A 122     132.808  77.752 -15.236  1.00 35.41      A16S
ATOM   2380  C6  G   A 122     132.138  77.249 -16.335  1.00 35.41      A16S
ATOM   2381  O6  G   A 122     131.972  77.954 -17.331  1.00 35.41      A16S
ATOM   2382  C5  G   A 122     131.719  75.927 -16.123  1.00 35.41      A16S
ATOM   2383  N7  G   A 122     131.022  75.063 -16.953  1.00 35.41      A16S
ATOM   2384  C8  G   A 122     130.889  73.974 -16.250  1.00 35.41      A16S
ATOM   2385  C2* G   A 122     130.540  73.440 -12.816  1.00 42.20      A16S
ATOM   2386  O2* G   A 122     131.091  73.003 -11.590  1.00 42.20      A16S
ATOM   2387  C3* G   A 122     129.261  72.718 -13.205  1.00 42.20      A16S
ATOM   2388  O3* G   A 122     128.404  72.505 -12.107  1.00 42.20      A16S
ATOM   2389  P   C   A 123     127.191  73.523 -11.852  1.00 26.03      A16S
ATOM   2390  O1P C   A 123     126.382  72.972 -10.760  1.00 40.20      A16S
ATOM   2391  O2P C   A 123     126.546  73.815 -13.148  1.00 40.20      A16S
ATOM   2392  O5* C   A 123     127.914  74.853 -11.367  1.00 26.03      A16S
ATOM   2393  C5* C   A 123     128.782  74.844 -10.217  1.00 26.03      A16S
ATOM   2394  C4* C   A 123     129.516  76.162 -10.100  1.00 26.03      A16S
ATOM   2395  O4* C   A 123     130.378  76.340 -11.249  1.00 26.03      A16S
ATOM   2396  C1* C   A 123     130.418  77.706 -11.607  1.00 26.03      A16S
ATOM   2397  N1  C   A 123     129.902  77.857 -12.978  1.00 40.20      A16S
ATOM   2398  C6  C   A 123     129.088  76.912 -13.537  1.00 40.20      A16S
ATOM   2399  C2  C   A 123     130.259  79.002 -13.707  1.00 40.20      A16S
ATOM   2400  O2  C   A 123     131.000  79.850 -13.175  1.00 40.20      A16S
ATOM   2401  N3  C   A 123     129.789  79.158 -14.965  1.00 40.20      A16S
ATOM   2402  C4  C   A 123     128.989  78.237 -15.494  1.00 40.20      A16S
ATOM   2403  N4  C   A 123     128.537  78.443 -16.724  1.00 40.20      A16S
ATOM   2404  C5  C   A 123     128.613  77.062 -14.779  1.00 40.20      A16S
ATOM   2405  C2* C   A 123     129.588  78.478 -10.590  1.00 26.03      A16S
ATOM   2406  O2* C   A 123     130.429  78.911  -9.547  1.00 26.03      A16S
ATOM   2407  C3* C   A 123     128.646  77.404 -10.092  1.00 26.03      A16S
ATOM   2408  O3* C   A 123     128.178  77.727  -8.806  1.00 26.03      A16S
ATOM   2409  P   G   A 124     126.753  78.430  -8.664  1.00 31.76      A16S
ATOM   2410  O1P G   A 124     126.439  78.516  -7.218  1.00 35.04      A16S
ATOM   2411  O2P G   A 124     125.822  77.728  -9.580  1.00 35.04      A16S
ATOM   2412  O5* G   A 124     126.979  79.904  -9.211  1.00 31.76      A16S
ATOM   2413  C5* G   A 124     127.857  80.803  -8.536  1.00 31.76      A16S
ATOM   2414  C4* G   A 124     127.978  82.083  -9.316  1.00 31.76      A16S
ATOM   2415  O4* G   A 124     128.611  81.836 -10.598  1.00 31.76      A16S
ATOM   2416  C1* G   A 124     128.117  82.754 -11.559  1.00 31.76      A16S
ATOM   2417  N9  G   A 124     127.590  82.023 -12.704  1.00 35.04      A16S
ATOM   2418  C4  G   A 124     127.342  82.547 -13.941  1.00 35.04      A16S
ATOM   2419  N3  G   A 124     127.513  83.825 -14.298  1.00 35.04      A16S
ATOM   2420  C2  G   A 124     127.220  84.022 -15.567  1.00 35.04      A16S
ATOM   2421  N2  G   A 124     127.342  85.237 -16.101  1.00 35.04      A16S
ATOM   2422  N1  G   A 124     126.791  83.049 -16.413  1.00 35.04      A16S
ATOM   2423  C6  G   A 124     126.609  81.728 -16.070  1.00 35.04      A16S
ATOM   2424  O6  G   A 124     126.222  80.927 -16.922  1.00 35.04      A16S
ATOM   2425  C5  G   A 124     126.918  81.498 -14.708  1.00 35.04      A16S
ATOM   2426  N7  G   A 124     126.865  80.335 -13.959  1.00 35.04      A16S
ATOM   2427  C8  G   A 124     127.271  80.696 -12.775  1.00 35.04      A16S
ATOM   2428  C2* G   A 124     127.058  83.608 -10.881  1.00 31.76      A16S
ATOM   2429  O2* G   A 124     127.646  84.828 -10.478  1.00 31.76      A16S
ATOM   2430  C3* G   A 124     126.668  82.724  -9.708  1.00 31.76      A16S
ATOM   2431  O3* G   A 124     126.107  83.463  -8.661  1.00 31.76      A16S
ATOM   2432  P   U   A 125     124.521  83.514  -8.520  1.00 34.42      A16S
ATOM   2433  O1P U   A 125     124.269  84.149  -7.203  1.00 33.59      A16S
ATOM   2434  O2P U   A 125     123.963  82.172  -8.821  1.00 33.59      A16S
ATOM   2435  O5* U   A 125     124.071  84.469  -9.707  1.00 34.42      A16S
ATOM   2436  C5* U   A 125     124.418  85.858  -9.710  1.00 34.42      A16S
ATOM   2437  C4* U   A 125     124.012  86.473 -11.019  1.00 34.42      A16S
ATOM   2438  O4* U   A 125     124.791  85.881 -12.090  1.00 34.42      A16S
ATOM   2439  C1* U   A 125     124.016  85.819 -13.271  1.00 34.42      A16S
ATOM   2440  N1  U   A 125     123.969  84.433 -13.761  1.00 33.59      A16S
ATOM   2441  C6  U   A 125     124.145  83.348 -12.924  1.00 33.59      A16S
ATOM   2442  C2  U   A 125     123.726  84.251 -15.110  1.00 33.59      A16S
ATOM   2443  O2  U   A 125     123.557  85.173 -15.868  1.00 33.59      A16S
ATOM   2444  N3  U   A 125     123.678  82.947 -15.530  1.00 33.59      A16S
ATOM   2445  C4  U   A 125     123.829  81.820 -14.751  1.00 33.59      A16S
ATOM   2446  O4  U   A 125     123.746  80.707 -15.274  1.00 33.59      A16S
ATOM   2447  C5  U   A 125     124.080  82.083 -13.360  1.00 33.59      A16S
ATOM   2448  C2* U   A 125     122.636  86.373 -12.937  1.00 34.42      A16S
ATOM   2449  O2* U   A 125     122.597  87.749 -13.249  1.00 34.42      A16S
ATOM   2450  C3* U   A 125     122.586  86.193 -11.435  1.00 34.42      A16S
ATOM   2451  O3* U   A 125     121.663  87.080 -10.858  1.00 34.42      A16S
ATOM   2452  P   G   A 126     120.144  86.607 -10.673  1.00 31.00      A16S
ATOM   2453  O1P G   A 126     119.502  87.650  -9.831  1.00 32.63      A16S
ATOM   2454  O2P G   A 126     120.154  85.198 -10.206  1.00 32.63      A16S
ATOM   2455  O5* G   A 126     119.540  86.621 -12.152  1.00 31.00      A16S
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ATOM   2456  C5* G   A 126     119.440  87.849 -12.877  1.00 31.00      A16S
ATOM   2457  C4* G   A 126     119.000  87.599 -14.291  1.00 31.00      A16S
ATOM   2458  O4* G   A 126     120.007  86.849 -14.996  1.00 31.00      A16S
ATOM   2459  C1* G   A 126     119.397  86.060 -15.999  1.00 31.00      A16S
ATOM   2460  N9  G   A 126     119.849  84.674 -15.882  1.00 32.63      A16S
ATOM   2461  C4  G   A 126     119.953  83.762 -16.910  1.00 32.63      A16S
ATOM   2462  N3  G   A 126     119.653  83.989 -18.201  1.00 32.63      A16S
ATOM   2463  C2  G   A 126     119.872  82.926 -18.953  1.00 32.63      A16S
ATOM   2464  N2  G   A 126     119.642  82.987 -20.266  1.00 32.63      A16S
ATOM   2465  N1  G   A 126     120.340  81.732 -18.475  1.00 32.63      A16S
ATOM   2466  C6  G   A 126     120.665  81.479 -17.151  1.00 32.63      A16S
ATOM   2467  O6  G   A 126     121.111  80.373 -16.826  1.00 32.63      A16S
ATOM   2468  C5  G   A 126     120.433  82.610 -16.332  1.00 32.63      A16S
ATOM   2469  N7  G   A 126     120.622  82.783 -14.970  1.00 32.63      A16S
ATOM   2470  C8  G   A 126     120.261  84.020 -14.747  1.00 32.63      A16S
ATOM   2471  C2* G   A 126     117.887  86.237 -15.879  1.00 31.00      A16S
ATOM   2472  O2* G   A 126     117.463  87.164 -16.855  1.00 31.00      A16S
ATOM   2473  C3* G   A 126     117.742  86.780 -14.463  1.00 31.00      A16S
ATOM   2474  O3* G   A 126     116.580  87.589 -14.323  1.00 31.00      A16S
ATOM   2475  P   G   A 127     115.125  86.909 -14.369  1.00 40.31      A16S
ATOM   2476  O1P G   A 127     114.175  88.021 -14.129  1.00 32.77      A16S
ATOM   2477  O2P G   A 127     115.100  85.713 -13.480  1.00 32.77      A16S
ATOM   2478  O5* G   A 127     114.986  86.403 -15.876  1.00 40.31      A16S
ATOM   2479  C5* G   A 127     114.279  85.190 -16.178  1.00 40.31      A16S
ATOM   2480  C4* G   A 127     114.538  84.770 -17.600  1.00 40.31      A16S
ATOM   2481  O4* G   A 127     115.938  84.425 -17.751  1.00 40.31      A16S
ATOM   2482  C1* G   A 127     116.080  83.380 -18.700  1.00 40.31      A16S
ATOM   2483  N9  G   A 127     116.667  82.219 -18.040  1.00 32.77      A16S
ATOM   2484  C4  G   A 127     116.944  80.998 -18.618  1.00 32.77      A16S
ATOM   2485  N3  G   A 127     116.750  80.667 -19.909  1.00 32.77      A16S
ATOM   2486  C2  G   A 127     117.079  79.407 -20.143  1.00 32.77      A16S
ATOM   2487  N2  G   A 127     116.938  78.889 -21.362  1.00 32.77      A16S
ATOM   2488  N1  G   A 127     117.566  78.559 -19.202  1.00 32.77      A16S
ATOM   2489  C6  G   A 127     117.782  78.882 -17.879  1.00 32.77      A16S
ATOM   2490  O6  G   A 127     118.240  78.037 -17.118  1.00 32.77      A16S
ATOM   2491  C5  G   A 127     117.425  80.212 -17.600  1.00 32.77      A16S
ATOM   2492  N7  G   A 127     117.472  80.919 -16.411  1.00 32.77      A16S
ATOM   2493  C8  G   A 127     117.023  82.106 -16.722  1.00 32.77      A16S
ATOM   2494  C2* G   A 127     114.685  83.047 -19.210  1.00 40.31      A16S
ATOM   2495  O2* G   A 127     114.428  83.766 -20.398  1.00 40.31      A16S
ATOM   2496  C3* G   A 127     113.822  83.511 -18.052  1.00 40.31      A16S
ATOM   2497  O3* G   A 127     112.478  83.728 -18.454  1.00 40.31      A16S
ATOM   2498  P   G   A 128     111.396  82.560 -18.221  1.00 43.70      A16S
ATOM   2499  O1P G   A 128     110.021  83.094 -18.434  1.00 29.58      A16S
ATOM   2500  O2P G   A 128     111.748  81.953 -16.903  1.00 29.58      A16S
ATOM   2501  O5* G   A 128     111.733  81.481 -19.353  1.00 43.70      A16S
ATOM   2502  C5* G   A 128     111.721  81.824 -20.748  1.00 43.70      A16S
ATOM   2503  C4* G   A 128     112.072  80.613 -21.590  1.00 43.70      A16S
ATOM   2504  O4* G   A 128     113.434  80.205 -21.309  1.00 43.70      A16S
ATOM   2505  C1* G   A 128     113.549  78.792 -21.393  1.00 43.70      A16S
ATOM   2506  N9  G   A 128     113.982  78.301 -20.089  1.00 29.58      A16S
ATOM   2507  C4  G   A 128     114.428  77.033 -19.775  1.00 29.58      A16S
ATOM   2508  N3  G   A 128     114.526  75.989 -20.618  1.00 29.58      A16S
ATOM   2509  C2  G   A 128     114.995  74.916 -20.009  1.00 29.58      A16S
ATOM   2510  N2  G   A 128     115.147  73.771 -20.683  1.00 29.58      A16S
ATOM   2511  N1  G   A 128     115.346  74.880 -18.697  1.00 29.58      A16S
ATOM   2512  C6  G   A 128     115.257  75.940 -17.823  1.00 29.58      A16S
ATOM   2513  O6  G   A 128     115.614  75.801 -16.667  1.00 29.58      A16S
ATOM   2514  C5  G   A 128     114.747  77.080 -18.438  1.00 29.58      A16S
ATOM   2515  N7  G   A 128     114.490  78.335 -17.912  1.00 29.58      A16S
ATOM   2516  C8  G   A 128     114.036  79.024 -18.923  1.00 29.58      A16S
ATOM   2517  C2* G   A 128     112.187  78.243 -21.806  1.00 43.70      A16S
ATOM   2518  O2* G   A 128     112.158  78.058 -23.206  1.00 43.70      A16S
ATOM   2519  C3* G   A 128     111.258  79.354 -21.339  1.00 43.70      A16S
ATOM   2520  O3* G   A 128     110.025  79.337 -22.029  1.00 43.70      A16S
ATOM   2521  P   U   A 129     108.743  78.706 -21.304  1.00 37.43      A16S
ATOM   2522  O1P U   A 129     107.568  78.901 -22.186  1.00 42.14      A16S
ATOM   2523  O2P U   A 129     108.710  79.212 -19.908  1.00 42.14      A16S
ATOM   2524  O5* U   A 129     109.065  77.150 -21.234  1.00 37.43      A16S
ATOM   2525  C5* U   A 129     109.087  76.356 -22.419  1.00 37.43      A16S
ATOM   2526  C4* U   A 129     109.438  74.929 -22.086  1.00 37.43      A16S
ATOM   2527  O4* U   A 129     110.779  74.842 -21.556  1.00 37.43      A16S
ATOM   2528  C1* U   A 129     110.857  73.753 -20.665  1.00 37.43      A16S
ATOM   2529  N1  U   A 129     111.372  74.219 -19.374  1.00 42.14      A16S
ATOM   2530  C6  U   A 129     111.192  75.503 -18.951  1.00 42.14      A16S
ATOM   2531  C2  U   A 129     112.041  73.307 -18.600  1.00 42.14      A16S
ATOM   2532  O2  U   A 129     112.244  72.155 -18.955  1.00 42.14      A16S
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ATOM   2533  N3  U   A 129     112.471  73.783 -17.393  1.00 42.14      A16S
ATOM   2534  C4  U   A 129     112.303  75.049 -16.899  1.00 42.14      A16S
ATOM   2535  O4  U   A 129     112.611  75.286 -15.729  1.00 42.14      A16S
ATOM   2536  C5  U   A 129     111.628  75.939 -17.777  1.00 42.14      A16S
ATOM   2537  C2* U   A 129     109.474  73.118 -20.572  1.00 37.43      A16S
ATOM   2538  O2* U   A 129     109.464  72.054 -21.492  1.00 37.43      A16S
ATOM   2539  C3* U   A 129     108.569  74.238 -21.055  1.00 37.43      A16S
ATOM   2540  O3* U   A 129     107.476  73.669 -21.735  1.00 37.43      A16S
ATOM   2541  P   G   A 129A    105.973  73.992 -21.282  1.00 46.60      A16S
ATOM   2542  O1P G   A 129A    105.753  75.457 -21.261  1.00 51.42      A16S
ATOM   2543  O2P G   A 129A    105.693  73.184 -20.063  1.00 51.42      A16S
ATOM   2544  O5* G   A 129A    105.152  73.391 -22.496  1.00 46.60      A16S
ATOM   2545  C5* G   A 129A    105.553  72.135 -23.040  1.00 46.60      A16S
ATOM   2546  C4* G   A 129A    105.779  72.261 -24.511  1.00 46.60      A16S
ATOM   2547  O4* G   A 129A    104.484  72.450 -25.111  1.00 46.60      A16S
ATOM   2548  C1* G   A 129A    104.479  73.591 -25.929  1.00 46.60      A16S
ATOM   2549  N9  G   A 129A    103.221  74.297 -25.688  1.00 51.42      A16S
ATOM   2550  C4  G   A 129A    102.146  74.371 -26.541  1.00 51.42      A16S
ATOM   2551  N3  G   A 129A    102.054  73.790 -27.754  1.00 51.42      A16S
ATOM   2552  C2  G   A 129A    100.900  74.054 -28.336  1.00 51.42      A16S
ATOM   2553  N2  G   A 129A    100.631  73.547 -29.541  1.00 51.42      A16S
ATOM   2554  N1  G   A 129A     99.923  74.830 -27.780  1.00 51.42      A16S
ATOM   2555  C6  G   A 129A     99.999  75.438 -26.538  1.00 51.42      A16S
ATOM   2556  O6  G   A 129A     99.059  76.127 -26.133  1.00 51.42      A16S
ATOM   2557  C5  G   A 129A    101.221  75.157 -25.896  1.00 51.42      A16S
ATOM   2558  N7  G   A 129A    101.694  75.559 -24.660  1.00 51.42      A16S
ATOM   2559  C8  G   A 129A    102.880  75.023 -24.577  1.00 51.42      A16S
ATOM   2560  C2* G   A 129A    105.713  74.434 -25.613  1.00 46.60      A16S
ATOM   2561  O2* G   A 129A    106.200  74.901 -26.854  1.00 46.60      A16S
ATOM   2562  C3* G   A 129A    106.649  73.425 -24.954  1.00 46.60      A16S
ATOM   2563  O3* G   A 129A    108.029  73.211 -25.342  1.00 46.60      A16S
ATOM   2564  P   A   A 130     108.386  72.247 -26.580  1.00 43.53      A16S
ATOM   2565  O1P A   A 130     109.572  72.710 -27.308  1.00 40.89      A16S
ATOM   2566  O2P A   A 130     107.139  72.015 -27.310  1.00 40.89      A16S
ATOM   2567  O5* A   A 130     108.816  70.906 -25.856  1.00 43.53      A16S
ATOM   2568  C5* A   A 130     108.631  69.650 -26.490  1.00 43.53      A16S
ATOM   2569  C4* A   A 130     109.100  68.554 -25.582  1.00 43.53      A16S
ATOM   2570  O4* A   A 130     110.544  68.628 -25.426  1.00 43.53      A16S
ATOM   2571  C1* A   A 130     110.873  68.737 -24.062  1.00 43.53      A16S
ATOM   2572  N9  A   A 130     112.018  69.630 -23.956  1.00 40.89      A16S
ATOM   2573  C4  A   A 130     113.206  69.399 -23.300  1.00 40.89      A16S
ATOM   2574  N3  A   A 130     113.567  68.306 -22.601  1.00 40.89      A16S
ATOM   2575  C2  A   A 130     114.814  68.427 -22.145  1.00 40.89      A16S
ATOM   2576  N1  A   A 130     115.667  69.442 -22.282  1.00 40.89      A16S
ATOM   2577  C6  A   A 130     115.260  70.537 -22.975  1.00 40.89      A16S
ATOM   2578  N6  A   A 130     116.087  71.582 -23.097  1.00 40.89      A16S
ATOM   2579  C5  A   A 130     113.977  70.522 -23.524  1.00 40.89      A16S
ATOM   2580  N7  A   A 130     113.291  71.444 -24.293  1.00 40.89      A16S
ATOM   2581  C8  A   A 130     112.137  70.870 -24.516  1.00 40.89      A16S
ATOM   2582  C2* A   A 130     109.619  69.264 -23.371  1.00 43.53      A16S
ATOM   2583  O2* A   A 130     109.648  68.933 -22.002  1.00 43.53      A16S
ATOM   2584  C3* A   A 130     108.510  68.594 -24.183  1.00 43.53      A16S
ATOM   2585  O3* A   A 130     108.313  67.238 -23.802  1.00 43.53      A16S
ATOM   2586  P   C   A 131     107.149  66.851 -22.776  1.00 41.62      A16S
ATOM   2587  O1P C   A 131     107.090  65.373 -22.802  1.00 33.58      A16S
ATOM   2588  O2P C   A 131     105.924  67.625 -23.076  1.00 33.58      A16S
ATOM   2589  O5* C   A 131     107.737  67.356 -21.380  1.00 41.62      A16S
ATOM   2590  C5* C   A 131     107.311  66.788 -20.132  1.00 41.62      A16S
ATOM   2591  C4* C   A 131     108.456  66.064 -19.471  1.00 41.62      A16S
ATOM   2592  O4* C   A 131     109.633  66.906 -19.468  1.00 41.62      A16S
ATOM   2593  C1* C   A 131     110.364  66.715 -18.265  1.00 41.62      A16S
ATOM   2594  N1  C   A 131     110.447  68.005 -17.536  1.00 33.58      A16S
ATOM   2595  C6  C   A 131     109.806  69.117 -17.998  1.00 33.58      A16S
ATOM   2596  C2  C   A 131     111.195  68.071 -16.347  1.00 33.58      A16S
ATOM   2597  O2  C   A 131     111.767  67.062 -15.943  1.00 33.58      A16S
ATOM   2598  N3  C   A 131     111.265  69.231 -15.672  1.00 33.58      A16S
ATOM   2599  C4  C   A 131     110.623  70.300 -16.127  1.00 33.58      A16S
ATOM   2600  N4  C   A 131     110.694  71.416 -15.411  1.00 33.58      A16S
ATOM   2601  C5  C   A 131     109.868  70.271 -17.331  1.00 33.58      A16S
ATOM   2602  C2* C   A 131     109.646  65.632 -17.460  1.00 41.62      A16S
ATOM   2603  O2* C   A 131     110.259  64.380 -17.701  1.00 41.62      A16S
ATOM   2604  C3* C   A 131     108.232  65.732 -18.010  1.00 41.62      A16S
ATOM   2605  O3* C   A 131     107.498  64.539 -17.835  1.00 41.62      A16S
ATOM   2606  P   C   A 132     106.479  64.426 -16.608  1.00 51.75      A16S
ATOM   2607  O1P C   A 132     105.448  63.423 -16.988  1.00 38.54      A16S
ATOM   2608  O2P C   A 132     106.071  65.806 -16.238  1.00 38.54      A16S
ATOM   2609  O5* C   A 132     107.362  63.868 -15.411  1.00 51.75      A16S
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ATOM   2610  C5* C   A 132     107.991  62.591 -15.504  1.00 51.75      A16S
ATOM   2611  C4* C   A 132     108.955  62.409 -14.364  1.00 51.75      A16S
ATOM   2612  O4* C   A 132     109.988  63.418 -14.466  1.00 51.75      A16S
ATOM   2613  C1* C   A 132     110.411  63.796 -13.169  1.00 51.75      A16S
ATOM   2614  N1  C   A 132     110.162  65.234 -12.994  1.00 38.54      A16S
ATOM   2615  C6  C   A 132     109.462  65.941 -13.921  1.00 38.54      A16S
ATOM   2616  C2  C   A 132     110.623  65.859 -11.834  1.00 38.54      A16S
ATOM   2617  O2  C   A 132     111.320  65.218 -11.046  1.00 38.54      A16S
ATOM   2618  N3  C   A 132     110.304  67.140 -11.603  1.00 38.54      A16S
ATOM   2619  C4  C   A 132     109.569  67.805 -12.484  1.00 38.54      A16S
ATOM   2620  N4  C   A 132     109.214  69.053 -12.181  1.00 38.54      A16S
ATOM   2621  C5  C   A 132     109.147  67.216 -13.708  1.00 38.54      A16S
ATOM   2622  C2* C   A 132     109.614  62.965 -12.160  1.00 51.75      A16S
ATOM   2623  O2* C   A 132     110.367  61.837 -11.776  1.00 51.75      A16S
ATOM   2624  C3* C   A 132     108.384  62.592 -12.969  1.00 51.75      A16S
ATOM   2625  O3* C   A 132     107.787  61.403 -12.483  1.00 51.75      A16S
ATOM   2626  P   U   A 133     106.656  61.483 -11.342  1.00 41.38      A16S
ATOM   2627  O1P U   A 133     106.285  60.102 -10.971  1.00 44.18      A16S
ATOM   2628  O2P U   A 133     105.599  62.454 -11.747  1.00 44.18      A16S
ATOM   2629  O5* U   A 133     107.427  62.069 -10.087  1.00 41.38      A16S
ATOM   2630  C5* U   A 133     108.466  61.323  -9.482  1.00 41.38      A16S
ATOM   2631  C4* U   A 133     109.077  62.118  -8.378  1.00 41.38      A16S
ATOM   2632  O4* U   A 133     109.655  63.327  -8.920  1.00 41.38      A16S
ATOM   2633  C1* U   A 133     109.596  64.357  -7.943  1.00 41.38      A16S
ATOM   2634  N1  U   A 133     108.834  65.485  -8.487  1.00 44.18      A16S
ATOM   2635  C6  U   A 133     108.165  65.374  -9.672  1.00 44.18      A16S
ATOM   2636  C2  U   A 133     108.794  66.661  -7.749  1.00 44.18      A16S
ATOM   2637  O2  U   A 133     109.402  66.823  -6.703  1.00 44.18      A16S
ATOM   2638  N3  U   A 133     108.014  67.641  -8.285  1.00 44.18      A16S
ATOM   2639  C4  U   A 133     107.302  67.575  -9.454  1.00 44.18      A16S
ATOM   2640  O4  U   A 133     106.578  68.509  -9.763  1.00 44.18      A16S
ATOM   2641  C5  U   A 133     107.423  66.352 -10.167  1.00 44.18      A16S
ATOM   2642  C2* U   A 133     108.904  63.780  -6.711  1.00 41.38      A16S
ATOM   2643  O2* U   A 133     109.896  63.339  -5.805  1.00 41.38      A16S
ATOM   2644  C3* U   A 133     108.121  62.628  -7.318  1.00 41.38      A16S
ATOM   2645  O3* U   A 133     107.841  61.642  -6.356  1.00 41.38      A16S
ATOM   2646  P   A   A 134     106.362  61.528  -5.760  1.00 57.96      A16S
ATOM   2647  O1P A   A 134     105.495  60.974  -6.832  1.00 29.50      A16S
ATOM   2648  O2P A   A 134     106.007  62.828  -5.134  1.00 29.50      A16S
ATOM   2649  O5* A   A 134     106.533  60.453  -4.597  1.00 57.96      A16S
ATOM   2650  C5* A   A 134     106.734  59.046  -4.879  1.00 57.96      A16S
ATOM   2651  C4* A   A 134     107.369  58.371  -3.686  1.00 57.96      A16S
ATOM   2652  O4* A   A 134     108.763  58.736  -3.633  1.00 57.96      A16S
ATOM   2653  C1* A   A 134     109.125  59.051  -2.306  1.00 57.96      A16S
ATOM   2654  N9  A   A 134     109.442  60.471  -2.282  1.00 29.50      A16S
ATOM   2655  C4  A   A 134     110.074  61.159  -1.280  1.00 29.50      A16S
ATOM   2656  N3  A   A 134     110.530  60.672  -0.120  1.00 29.50      A16S
ATOM   2657  C2  A   A 134     111.075  61.640   0.606  1.00 29.50      A16S
ATOM   2658  N1  A   A 134     111.205  62.933   0.325  1.00 29.50      A16S
ATOM   2659  C6  A   A 134     110.737  63.382  -0.853  1.00 29.50      A16S
ATOM   2660  N6  A   A 134     110.868  64.674  -1.143  1.00 29.50      A16S
ATOM   2661  C5  A   A 134     110.138  62.461  -1.708  1.00 29.50      A16S
ATOM   2662  N7  A   A 134     109.560  62.593  -2.960  1.00 29.50      A16S
ATOM   2663  C8  A   A 134     109.164  61.390  -3.254  1.00 29.50      A16S
ATOM   2664  C2* A   A 134     107.946  58.716  -1.395  1.00 57.96      A16S
ATOM   2665  O2* A   A 134     108.144  57.439  -0.839  1.00 57.96      A16S
ATOM   2666  C3* A   A 134     106.777  58.816  -2.361  1.00 57.96      A16S
ATOM   2667  O3* A   A 134     105.689  57.991  -2.007  1.00 57.96      A16S
ATOM   2668  P   C   A 135     104.326  58.654  -1.502  1.00 39.53      A16S
ATOM   2669  O1P C   A 135     103.351  57.543  -1.297  1.00 55.20      A16S
ATOM   2670  O2P C   A 135     103.973  59.771  -2.409  1.00 55.20      A16S
ATOM   2671  O5* C   A 135     104.725  59.245  -0.084  1.00 39.53      A16S
ATOM   2672  C5* C   A 135     105.123  58.363   0.956  1.00 39.53      A16S
ATOM   2673  C4* C   A 135     105.807  59.118   2.051  1.00 39.53      A16S
ATOM   2674  O4* C   A 135     107.048  59.654   1.541  1.00 39.53      A16S
ATOM   2675  C1* C   A 135     107.316  60.905   2.163  1.00 39.53      A16S
ATOM   2676  N1  C   A 135     107.366  61.972   1.136  1.00 55.20      A16S
ATOM   2677  C6  C   A 135     106.855  61.784  -0.119  1.00 55.20      A16S
ATOM   2678  C2  C   A 135     107.935  63.192   1.483  1.00 55.20      A16S
ATOM   2679  O2  C   A 135     108.412  63.323   2.621  1.00 55.20      A16S
ATOM   2680  N3  C   A 135     107.956  64.196   0.578  1.00 55.20      A16S
ATOM   2681  C4  C   A 135     107.442  64.010  -0.635  1.00 55.20      A16S
ATOM   2682  N4  C   A 135     107.468  65.037  -1.492  1.00 55.20      A16S
ATOM   2683  C5  C   A 135     106.873  62.766  -1.027  1.00 55.20      A16S
ATOM   2684  C2* C   A 135     106.203  61.157   3.176  1.00 39.53      A16S
ATOM   2685  O2* C   A 135     106.600  60.653   4.429  1.00 39.53      A16S
ATOM   2686  C3* C   A 135     105.075  60.334   2.584  1.00 39.53      A16S
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ATOM   2687  O3*  C   A 135     104.087  60.033   3.537  1.00 39.53      A16S
ATOM   2688  P    C   A 136     102.666  60.767   3.434  1.00 48.73      A16S
ATOM   2689  O1P  C   A 136     101.904  60.315   4.627  1.00 44.92      A16S
ATOM   2690  O2P  C   A 136     102.099  60.562   2.073  1.00 44.92      A16S
ATOM   2691  O5*  C   A 136     103.016  62.312   3.593  1.00 48.73      A16S
ATOM   2692  C5*  C   A 136     103.568  62.817   4.829  1.00 48.73      A16S
ATOM   2693  C4*  C   A 136     103.508  64.324   4.853  1.00 48.73      A16S
ATOM   2694  O4*  C   A 136     104.473  64.853   3.914  1.00 48.73      A16S
ATOM   2695  C1*  C   A 136     103.918  65.963   3.234  1.00 48.73      A16S
ATOM   2696  N1   C   A 136     103.802  65.614   1.807  1.00 44.92      A16S
ATOM   2697  C6   C   A 136     104.060  64.348   1.374  1.00 44.92      A16S
ATOM   2698  C2   C   A 136     103.425  66.591   0.908  1.00 44.92      A16S
ATOM   2699  O2   C   A 136     103.174  67.724   1.331  1.00 44.92      A16S
ATOM   2700  N3   C   A 136     103.334  66.289  -0.398  1.00 44.92      A16S
ATOM   2701  C4   C   A 136     103.596  65.057  -0.812  1.00 44.92      A16S
ATOM   2702  N4   C   A 136     103.504  64.800  -2.114  1.00 44.92      A16S
ATOM   2703  C5   C   A 136     103.967  64.030   0.087  1.00 44.92      A16S
ATOM   2704  C2*  C   A 136     102.561  66.265   3.871  1.00 48.73      A16S
ATOM   2705  O2*  C   A 136     102.722  67.210   4.899  1.00 48.73      A16S
ATOM   2706  C3*  C   A 136     102.175  64.905   4.416  1.00 48.73      A16S
ATOM   2707  O3*  C   A 136     101.259  65.003   5.486  1.00 48.73      A16S
ATOM   2708  P    C   A 137      99.696  64.765   5.207  1.00 47.25      A16S
ATOM   2709  O1P  C   A 137      99.060  64.687   6.548  1.00 39.62      A16S
ATOM   2710  O2P  C   A 137      99.541  63.637   4.250  1.00 39.62      A16S
ATOM   2711  O5*  C   A 137      99.223  66.101   4.482  1.00 47.25      A16S
ATOM   2712  C5*  C   A 137      99.343  67.367   5.148  1.00 47.25      A16S
ATOM   2713  C4*  C   A 137      98.885  68.481   4.246  1.00 47.25      A16S
ATOM   2714  O4*  C   A 137      99.812  68.638   3.148  1.00 47.25      A16S
ATOM   2715  C1*  C   A 137      99.109  68.989   1.976  1.00 47.25      A16S
ATOM   2716  N1   C   A 137      99.366  67.965   0.949  1.00 39.62      A16S
ATOM   2717  C6   C   A 137      99.998  66.791   1.255  1.00 39.62      A16S
ATOM   2718  C2   C   A 137      98.968  68.223  -0.352  1.00 39.62      A16S
ATOM   2719  O2   C   A 137      98.371  69.272  -0.589  1.00 39.62      A16S
ATOM   2720  N3   C   A 137      99.240  67.329  -1.320  1.00 39.62      A16S
ATOM   2721  C4   C   A 137      99.881  66.204  -1.022  1.00 39.62      A16S
ATOM   2722  N4   C   A 137     100.159  65.370  -2.019  1.00 39.62      A16S
ATOM   2723  C5   C   A 137     100.274  65.891   0.308  1.00 39.62      A16S
ATOM   2724  C2*  C   A 137      97.637  69.135   2.346  1.00 47.25      A16S
ATOM   2725  O2*  C   A 137      97.393  70.496   2.621  1.00 47.25      A16S
ATOM   2726  C3*  C   A 137      97.546  68.260   3.586  1.00 47.25      A16S
ATOM   2727  O3*  C   A 137      96.495  68.628   4.456  1.00 47.25      A16S
ATOM   2728  P    G   A 138      95.084  67.864   4.356  1.00 45.98      A16S
ATOM   2729  O1P  G   A 138      94.319  68.241   5.580  1.00 47.75      A16S
ATOM   2730  O2P  G   A 138      95.346  66.426   4.071  1.00 47.75      A16S
ATOM   2731  O5*  G   A 138      94.406  68.511   3.067  1.00 45.98      A16S
ATOM   2732  C5*  G   A 138      94.139  69.919   3.022  1.00 45.98      A16S
ATOM   2733  C4*  G   A 138      93.580  70.305   1.681  1.00 45.98      A16S
ATOM   2734  O4*  G   A 138      94.618  70.257   0.667  1.00 45.98      A16S
ATOM   2735  C1*  G   A 138      94.036  69.925  -0.587  1.00 45.98      A16S
ATOM   2736  N9   G   A 138      94.690  68.740  -1.129  1.00 47.75      A16S
ATOM   2737  C4   G   A 138      94.611  68.302  -2.424  1.00 47.75      A16S
ATOM   2738  N3   G   A 138      93.950  68.914  -3.426  1.00 47.75      A16S
ATOM   2739  C2   G   A 138      94.036  68.234  -4.562  1.00 47.75      A16S
ATOM   2740  N2   G   A 138      93.433  68.701  -5.671  1.00 47.75      A16S
ATOM   2741  N1   G   A 138      94.718  67.048  -4.696  1.00 47.75      A16S
ATOM   2742  C6   G   A 138      95.399  66.404  -3.671  1.00 47.75      A16S
ATOM   2743  O6   G   A 138      95.965  65.337  -3.890  1.00 47.75      A16S
ATOM   2744  C5   G   A 138      95.321  67.124  -2.456  1.00 47.75      A16S
ATOM   2745  N7   G   A 138      95.861  66.840  -1.212  1.00 47.75      A16S
ATOM   2746  C8   G   A 138      95.467  67.828  -0.459  1.00 47.75      A16S
ATOM   2747  C2*  G   A 138      92.541  69.687  -0.364  1.00 45.98      A16S
ATOM   2748  O2*  G   A 138      91.830  70.848  -0.715  1.00 45.98      A16S
ATOM   2749  C3*  G   A 138      92.486  69.410   1.132  1.00 45.98      A16S
ATOM   2750  O3*  G   A 138      91.216  69.701   1.683  1.00 45.98      A16S
ATOM   2751  P    G   A 139      90.112  68.538   1.765  1.00 54.55      A16S
ATOM   2752  O1P  G   A 139      88.955  69.106   2.492  1.00 59.14      A16S
ATOM   2753  O2P  G   A 139      90.760  67.311   2.283  1.00 59.14      A16S
ATOM   2754  O5*  G   A 139      89.723  68.300   0.233  1.00 54.55      A16S
ATOM   2755  C5*  G   A 139      89.127  69.364  -0.539  1.00 54.55      A16S
ATOM   2756  C4*  G   A 139      89.016  68.992  -2.004  1.00 54.55      A16S
ATOM   2757  O4*  G   A 139      90.332  68.886  -2.612  1.00 54.55      A16S
ATOM   2758  C1*  G   A 139      90.287  67.963  -3.694  1.00 54.55      A16S
ATOM   2759  N9   G   A 139      91.170  66.836  -3.411  1.00 59.14      A16S
ATOM   2760  C4   G   A 139      91.578  65.881  -4.315  1.00 59.14      A16S
ATOM   2761  N3   G   A 139      91.270  65.848  -5.628  1.00 59.14      A16S
ATOM   2762  C2   G   A 139      91.818  64.812  -6.236  1.00 59.14      A16S
ATOM   2763  N2   G   A 139      91.647  64.647  -7.548  1.00 59.14      A16S
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ATOM   2764  N1  G   A 139      92.582  63.869  -5.604  1.00 59.14      A16S
ATOM   2765  C6  G   A 139      92.899  63.875  -4.250  1.00 59.14      A16S
ATOM   2766  O6  G   A 139      93.586  62.962  -3.771  1.00 59.14      A16S
ATOM   2767  C5  G   A 139      92.341  64.996  -3.590  1.00 59.14      A16S
ATOM   2768  N7  G   A 139      92.428  65.391  -2.264  1.00 59.14      A16S
ATOM   2769  C8  G   A 139      91.722  66.489  -2.205  1.00 59.14      A16S
ATOM   2770  C2* G   A 139      88.859  67.444  -3.782  1.00 54.55      A16S
ATOM   2771  O2* G   A 139      88.165  68.208  -4.738  1.00 54.55      A16S
ATOM   2772  C3* G   A 139      88.374  67.665  -2.359  1.00 54.55      A16S
ATOM   2773  O3* G   A 139      86.970  67.644  -2.267  1.00 54.55      A16S
ATOM   2774  P   A   A 140      86.247  66.272  -1.838  1.00 78.82      A16S
ATOM   2775  O1P A   A 140      84.857  66.597  -1.419  1.00 61.82      A16S
ATOM   2776  O2P A   A 140      87.139  65.552  -0.892  1.00 61.82      A16S
ATOM   2777  O5* A   A 140      86.207  65.430  -3.188  1.00 78.82      A16S
ATOM   2778  C5* A   A 140      85.551  65.949  -4.347  1.00 78.82      A16S
ATOM   2779  C4* A   A 140      85.671  64.981  -5.495  1.00 78.82      A16S
ATOM   2780  O4* A   A 140      87.042  64.925  -5.966  1.00 78.82      A16S
ATOM   2781  C1* A   A 140      87.335  63.615  -6.421  1.00 78.82      A16S
ATOM   2782  N9  A   A 140      88.397  63.071  -5.581  1.00 61.82      A16S
ATOM   2783  C4  A   A 140      89.226  62.032  -5.909  1.00 61.82      A16S
ATOM   2784  N3  A   A 140      89.242  61.337  -7.055  1.00 61.82      A16S
ATOM   2785  C2  A   A 140      90.184  60.402  -7.018  1.00 61.82      A16S
ATOM   2786  N1  A   A 140      91.044  60.106  -6.040  1.00 61.82      A16S
ATOM   2787  C6  A   A 140      90.996  60.826  -4.901  1.00 61.82      A16S
ATOM   2788  N6  A   A 140      91.851  60.537  -3.923  1.00 61.82      A16S
ATOM   2789  C5  A   A 140      90.043  61.844  -4.814  1.00 61.82      A16S
ATOM   2790  N7  A   A 140      89.739  62.749  -3.810  1.00 61.82      A16S
ATOM   2791  C8  A   A 140      88.762  63.457  -4.316  1.00 61.82      A16S
ATOM   2792  C2* A   A 140      86.059  62.784  -6.283  1.00 78.82      A16S
ATOM   2793  O2* A   A 140      85.346  62.773  -7.507  1.00 78.82      A16S
ATOM   2794  C3* A   A 140      85.331  63.539  -5.183  1.00 78.82      A16S
ATOM   2795  O3* A   A 140      83.948  63.293  -5.192  1.00 78.82      A16S
ATOM   2796  P   A   A 141      83.363  62.125  -4.269  1.00 75.55      A16S
ATOM   2797  O1P A   A 141      81.903  62.143  -4.508  1.00 46.85      A16S
ATOM   2798  O2P A   A 141      83.881  62.240  -2.880  1.00 46.85      A16S
ATOM   2799  O5* A   A 141      83.998  60.806  -4.896  1.00 75.55      A16S
ATOM   2800  C5* A   A 141      83.643  60.395  -6.219  1.00 75.55      A16S
ATOM   2801  C4* A   A 141      84.381  59.137  -6.609  1.00 75.55      A16S
ATOM   2802  O4* A   A 141      85.804  59.406  -6.740  1.00 75.55      A16S
ATOM   2803  C1* A   A 141      86.531  58.212  -6.511  1.00 75.55      A16S
ATOM   2804  N9  A   A 141      87.445  58.393  -5.380  1.00 46.85      A16S
ATOM   2805  C4  A   A 141      88.534  57.593  -5.151  1.00 46.85      A16S
ATOM   2806  N3  A   A 141      88.959  56.571  -5.912  1.00 46.85      A16S
ATOM   2807  C2  A   A 141      90.037  56.015  -5.381  1.00 46.85      A16S
ATOM   2808  N1  A   A 141      90.688  56.331  -4.258  1.00 46.85      A16S
ATOM   2809  C6  A   A 141      90.232  57.353  -3.512  1.00 46.85      A16S
ATOM   2810  N6  A   A 141      90.876  57.642  -2.381  1.00 46.85      A16S
ATOM   2811  C5  A   A 141      89.096  58.042  -3.975  1.00 46.85      A16S
ATOM   2812  N7  A   A 141      88.387  59.124  -3.477  1.00 46.85      A16S
ATOM   2813  C8  A   A 141      87.422  59.295  -4.349  1.00 46.85      A16S
ATOM   2814  C2* A   A 141      85.519  57.120  -6.186  1.00 75.55      A16S
ATOM   2815  O2* A   A 141      85.230  56.392  -7.370  1.00 75.55      A16S
ATOM   2816  C3* A   A 141      84.343  57.942  -5.674  1.00 75.55      A16S
ATOM   2817  O3* A   A 141      83.133  57.207  -5.701  1.00 75.55      A16S
ATOM   2818  P   G   A 142      82.741  56.288  -4.431  1.00 71.57      A16S
ATOM   2819  O1P G   A 142      81.365  55.797  -4.721  1.00 38.80      A16S
ATOM   2820  O2P G   A 142      82.994  57.031  -3.169  1.00 38.80      A16S
ATOM   2821  O5* G   A 142      83.785  55.076  -4.486  1.00 71.57      A16S
ATOM   2822  C5* G   A 142      83.920  54.295  -5.687  1.00 71.57      A16S
ATOM   2823  C4* G   A 142      85.159  53.419  -5.659  1.00 71.57      A16S
ATOM   2824  O4* G   A 142      86.381  54.198  -5.587  1.00 71.57      A16S
ATOM   2825  C1* G   A 142      87.414  53.405  -5.023  1.00 71.57      A16S
ATOM   2826  N9  G   A 142      87.925  54.054  -3.821  1.00 38.80      A16S
ATOM   2827  C4  G   A 142      89.048  53.692  -3.126  1.00 38.80      A16S
ATOM   2828  N3  G   A 142      89.895  52.703  -3.458  1.00 38.80      A16S
ATOM   2829  C2  G   A 142      90.878  52.579  -2.579  1.00 38.80      A16S
ATOM   2830  N2  G   A 142      91.820  51.657  -2.764  1.00 38.80      A16S
ATOM   2831  N1  G   A 142      91.009  53.351  -1.454  1.00 38.80      A16S
ATOM   2832  C6  G   A 142      90.137  54.369  -1.086  1.00 38.80      A16S
ATOM   2833  O6  G   A 142      90.324  54.990  -0.031  1.00 38.80      A16S
ATOM   2834  C5  G   A 142      89.092  54.531  -2.037  1.00 38.80      A16S
ATOM   2835  N7  G   A 142      88.037  55.427  -2.065  1.00 38.80      A16S
ATOM   2836  C8  G   A 142      87.375  55.110  -3.142  1.00 38.80      A16S
ATOM   2837  C2* G   A 142      86.806  52.052  -4.674  1.00 71.57      A16S
ATOM   2838  O2* G   A 142      87.076  51.177  -5.747  1.00 71.57      A16S
ATOM   2839  C3* G   A 142      85.324  52.394  -4.556  1.00 71.57      A16S
ATOM   2840  O3* G   A 142      84.510  51.253  -4.779  1.00 71.57      A16S
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ATOM   2841  P    A   A 143      84.057  50.341  -3.532  1.00 64.66      A16S
ATOM   2842  O1P A   A 143      83.038  49.392  -4.066  1.00 75.14      A16S
ATOM   2843  O2P A   A 143      83.707  51.231  -2.396  1.00 75.14      A16S
ATOM   2844  O5* A   A 143      85.376  49.533  -3.141  1.00 64.66      A16S
ATOM   2845  C5* A   A 143      85.970  48.623  -4.077  1.00 64.66      A16S
ATOM   2846  C4* A   A 143      87.279  48.100  -3.551  1.00 64.66      A16S
ATOM   2847  O4* A   A 143      88.202  49.196  -3.361  1.00 64.66      A16S
ATOM   2848  C1* A   A 143      89.030  48.939  -2.243  1.00 64.66      A16S
ATOM   2849  N9   A   A 143      88.828  50.005  -1.265  1.00 75.14      A16S
ATOM   2850  C4   A   A 143      89.671  50.321  -0.228  1.00 75.14      A16S
ATOM   2851  N3   A   A 143      90.824  49.710   0.102  1.00 75.14      A16S
ATOM   2852  C2   A   A 143      91.377  50.296   1.165  1.00 75.14      A16S
ATOM   2853  N1   A   A 143      90.944  51.349   1.876  1.00 75.14      A16S
ATOM   2854  C6   A   A 143      89.781  51.941   1.512  1.00 75.14      A16S
ATOM   2855  N6   A   A 143      89.350  53.000   2.206  1.00 75.14      A16S
ATOM   2856  C5   A   A 143      89.093  51.405   0.411  1.00 75.14      A16S
ATOM   2857  N7   A   A 143      87.896  51.756  -0.200  1.00 75.14      A16S
ATOM   2858  C8   A   A 143      87.783  50.896  -1.183  1.00 75.14      A16S
ATOM   2859  C2* A   A 143      88.659  47.563  -1.700  1.00 64.66      A16S
ATOM   2860  O2* A   A 143      89.564  46.632  -2.258  1.00 64.66      A16S
ATOM   2861  C3* A   A 143      87.227  47.404  -2.205  1.00 64.66      A16S
ATOM   2862  O3* A   A 143      86.843  46.044  -2.366  1.00 64.66      A16S
ATOM   2863  P    G   A 144      85.901  45.343  -1.268  1.00100.86      A16S
ATOM   2864  O1P G   A 144      84.833  46.303  -0.863  1.00 68.05      A16S
ATOM   2865  O2P G   A 144      86.795  44.762  -0.237  1.00 68.05      A16S
ATOM   2866  O5* G   A 144      85.220  44.148  -2.071  1.00100.86      A16S
ATOM   2867  C5* G   A 144      83.792  43.973  -2.061  1.00100.86      A16S
ATOM   2868  C4* G   A 144      83.362  43.080  -3.199  1.00100.86      A16S
ATOM   2869  O4* G   A 144      83.678  43.729  -4.457  1.00100.86      A16S
ATOM   2870  C1* G   A 144      84.064  42.757  -5.413  1.00100.86      A16S
ATOM   2871  N9   G   A 144      85.447  43.015  -5.806  1.00 68.05      A16S
ATOM   2872  C4   G   A 144      86.146  42.339  -6.768  1.00 68.05      A16S
ATOM   2873  N3   G   A 144      85.671  41.332  -7.522  1.00 68.05      A16S
ATOM   2874  C2   G   A 144      86.574  40.888  -8.378  1.00 68.05      A16S
ATOM   2875  N2   G   A 144      86.254  39.901  -9.221  1.00 68.05      A16S
ATOM   2876  N1   G   A 144      87.851  41.382  -8.471  1.00 68.05      A16S
ATOM   2877  C6   G   A 144      88.366  42.407  -7.689  1.00 68.05      A16S
ATOM   2878  O6   G   A 144      89.535  42.761  -7.834  1.00 68.05      A16S
ATOM   2879  C5   G   A 144      87.400  42.907  -6.781  1.00 68.05      A16S
ATOM   2880  N7   G   A 144      87.490  43.925  -5.844  1.00 68.05      A16S
ATOM   2881  C8   G   A 144      86.308  43.957  -5.292  1.00 68.05      A16S
ATOM   2882  C2* G   A 144      83.917  41.384  -4.760  1.00100.86      A16S
ATOM   2883  O2* G   A 144      82.655  40.840  -5.086  1.00100.86      A16S
ATOM   2884  C3* G   A 144      84.053  41.730  -3.284  1.00100.86      A16S
ATOM   2885  O3* G   A 144      83.465  40.750  -2.440  1.00100.86      A16S
ATOM   2886  P    G   A 145      84.392  39.606  -1.789  1.00 84.19      A16S
ATOM   2887  O1P G   A 145      83.517  38.812  -0.896  1.00 82.44      A16S
ATOM   2888  O2P G   A 145      85.610  40.253  -1.233  1.00 82.44      A16S
ATOM   2889  O5* G   A 145      84.814  38.683  -3.023  1.00 84.19      A16S
ATOM   2890  C5* G   A 145      83.811  37.983  -3.783  1.00 84.19      A16S
ATOM   2891  C4* G   A 145      84.429  37.186  -4.914  1.00 84.19      A16S
ATOM   2892  O4* G   A 145      84.874  38.060  -5.987  1.00 84.19      A16S
ATOM   2893  C1* G   A 145      85.974  37.463  -6.662  1.00 84.19      A16S
ATOM   2894  N9   G   A 145      87.147  38.320  -6.509  1.00 82.44      A16S
ATOM   2895  C4   G   A 145      88.325  38.224  -7.215  1.00 82.44      A16S
ATOM   2896  N3   G   A 145      88.587  37.349  -8.207  1.00 82.44      A16S
ATOM   2897  C2   G   A 145      89.817  37.486  -8.669  1.00 82.44      A16S
ATOM   2898  N2   G   A 145      90.250  36.698  -9.659  1.00 82.44      A16S
ATOM   2899  N1   G   A 145      90.715  38.405  -8.193  1.00 82.44      A16S
ATOM   2900  C6   G   A 145      90.464  39.309  -7.170  1.00 82.44      A16S
ATOM   2901  O6   G   A 145      91.347  40.084  -6.804  1.00 82.44      A16S
ATOM   2902  C5   G   A 145      89.153  39.181  -6.673  1.00 82.44      A16S
ATOM   2903  N7   G   A 145      88.506  39.882  -5.667  1.00 82.44      A16S
ATOM   2904  C8   G   A 145      87.319  39.344  -5.609  1.00 82.44      A16S
ATOM   2905  C2* G   A 145      86.238  36.112  -5.997  1.00 84.19      A16S
ATOM   2906  O2* G   A 145      85.591  35.085  -6.721  1.00 84.19      A16S
ATOM   2907  C3* G   A 145      85.643  36.326  -4.611  1.00 84.19      A16S
ATOM   2908  O3* G   A 145      85.338  35.091  -3.985  1.00 84.19      A16S
ATOM   2909  P    G   A 146      86.446  34.388  -3.056  1.00 88.86      A16S
ATOM   2910  O1P G   A 146      85.763  33.262  -2.368  1.00 90.06      A16S
ATOM   2911  O2P G   A 146      87.115  35.447  -2.247  1.00 90.06      A16S
ATOM   2912  O5* G   A 146      87.513  33.797  -4.092  1.00 88.86      A16S
ATOM   2913  C5* G   A 146      87.081  32.964  -5.187  1.00 88.86      A16S
ATOM   2914  C4* G   A 146      88.156  32.835  -6.250  1.00 88.86      A16S
ATOM   2915  O4* G   A 146      88.498  34.135  -6.799  1.00 88.86      A16S
ATOM   2916  C1* G   A 146      89.850  34.125  -7.238  1.00 88.86      A16S
ATOM   2917  N9   G   A 146      90.587  35.180  -6.541  1.00 90.06      A16S
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ATOM   2918  C4  G   A 146      91.838  35.665  -6.863  1.00 90.06      A16S
ATOM   2919  N3  G   A 146      92.604  35.264  -7.897  1.00 90.06      A16S
ATOM   2920  C2  G   A 146      93.756  35.911  -7.937  1.00 90.06      A16S
ATOM   2921  N2  G   A 146      94.635  35.636  -8.899  1.00 90.06      A16S
ATOM   2922  N1  G   A 146      94.130  36.877  -7.032  1.00 90.06      A16S
ATOM   2923  C6  G   A 146      93.357  37.307  -5.957  1.00 90.06      A16S
ATOM   2924  O6  G   A 146      93.787  38.187  -5.190  1.00 90.06      A16S
ATOM   2925  C5  G   A 146      92.117  36.620  -5.906  1.00 90.06      A16S
ATOM   2926  N7  G   A 146      91.065  36.742  -5.011  1.00 90.06      A16S
ATOM   2927  C8  G   A 146      90.182  35.874  -5.427  1.00 90.06      A16S
ATOM   2928  C2* G   A 146      90.420  32.732  -6.954  1.00 88.86      A16S
ATOM   2929  O2* G   A 146      90.363  31.944  -8.131  1.00 88.86      A16S
ATOM   2930  C3* G   A 146      89.492  32.230  -5.850  1.00 88.86      A16S
ATOM   2931  O3* G   A 146      89.449  30.806  -5.819  1.00 88.86      A16S
ATOM   2932  P   G   A 147      90.506  29.994  -4.913  1.00 74.69      A16S
ATOM   2933  O1P G   A 147      90.074  28.572  -4.940  1.00 71.08      A16S
ATOM   2934  O2P G   A 147      90.655  30.695  -3.609  1.00 71.08      A16S
ATOM   2935  O5* G   A 147      91.881  30.107  -5.712  1.00 74.69      A16S
ATOM   2936  C5* G   A 147      92.002  29.510  -7.007  1.00 74.69      A16S
ATOM   2937  C4* G   A 147      93.255  29.975  -7.704  1.00 74.69      A16S
ATOM   2938  O4* G   A 147      93.217  31.413  -7.908  1.00 74.69      A16S
ATOM   2939  C1* G   A 147      94.544  31.919  -7.949  1.00 74.69      A16S
ATOM   2940  N9  G   A 147      94.738  32.888  -6.875  1.00 71.08      A16S
ATOM   2941  C4  G   A 147      95.895  33.600  -6.637  1.00 71.08      A16S
ATOM   2942  N3  G   A 147      97.015  33.577  -7.397  1.00 71.08      A16S
ATOM   2943  C2  G   A 147      97.973  34.339  -6.893  1.00 71.08      A16S
ATOM   2944  N2  G   A 147      99.143  34.444  -7.532  1.00 71.08      A16S
ATOM   2945  N1  G   A 147      97.849  35.056  -5.729  1.00 71.08      A16S
ATOM   2946  C6  G   A 147      96.706  35.096  -4.933  1.00 71.08      A16S
ATOM   2947  O6  G   A 147      96.697  35.773  -3.900  1.00 71.08      A16S
ATOM   2948  C5  G   A 147      95.662  34.293  -5.472  1.00 71.08      A16S
ATOM   2949  N7  G   A 147      94.372  34.062  -5.010  1.00 71.08      A16S
ATOM   2950  C8  G   A 147      93.859  33.232  -5.878  1.00 71.08      A16S
ATOM   2951  C2* G   A 147      95.486  30.740  -7.719  1.00 74.69      A16S
ATOM   2952  O2* G   A 147      95.946  30.250  -8.960  1.00 74.69      A16S
ATOM   2953  C3* G   A 147      94.579  29.756  -6.999  1.00 74.69      A16S
ATOM   2954  O3* G   A 147      95.082  28.440  -7.109  1.00 74.69      A16S
ATOM   2955  P   G   A 148      96.175  27.932  -6.045  1.00 69.45      A16S
ATOM   2956  O1P G   A 148      96.437  26.506  -6.320  1.00 68.60      A16S
ATOM   2957  O2P G   A 148      95.759  28.353  -4.687  1.00 68.60      A16S
ATOM   2958  O5* G   A 148      97.496  28.738  -6.406  1.00 69.45      A16S
ATOM   2959  C5* G   A 148      98.137  28.560  -7.676  1.00 69.45      A16S
ATOM   2960  C4* G   A 148      99.419  29.356  -7.737  1.00 69.45      A16S
ATOM   2961  O4* G   A 148      99.132  30.771  -7.556  1.00 69.45      A16S
ATOM   2962  C1* G   A 148     100.219  31.397  -6.894  1.00 69.45      A16S
ATOM   2963  N9  G   A 148      99.743  32.001  -5.648  1.00 68.60      A16S
ATOM   2964  C4  G   A 148     100.423  32.916  -4.870  1.00 68.60      A16S
ATOM   2965  N3  G   A 148     101.636  33.440  -5.137  1.00 68.60      A16S
ATOM   2966  C2  G   A 148     102.030  34.276  -4.196  1.00 68.60      A16S
ATOM   2967  N2  G   A 148     103.205  34.890  -4.308  1.00 68.60      A16S
ATOM   2968  N1  G   A 148     101.301  34.570  -3.079  1.00 68.60      A16S
ATOM   2969  C6  G   A 148     100.051  34.043  -2.781  1.00 68.60      A16S
ATOM   2970  O6  G   A 148      99.477  34.367  -1.736  1.00 68.60      A16S
ATOM   2971  C5  G   A 148      99.607  33.153  -3.788  1.00 68.60      A16S
ATOM   2972  N7  G   A 148      98.428  32.427  -3.889  1.00 68.60      A16S
ATOM   2973  C8  G   A 148      98.551  31.763  -5.006  1.00 68.60      A16S
ATOM   2974  C2* G   A 148     101.288  30.328  -6.659  1.00 69.45      A16S
ATOM   2975  O2* G   A 148     102.203  30.365  -7.737  1.00 69.45      A16S
ATOM   2976  C3* G   A 148     100.462  29.048  -6.676  1.00 69.45      A16S
ATOM   2977  O3* G   A 148     101.250  27.915  -7.021  1.00 69.45      A16S
ATOM   2978  P   A   A 149     102.058  27.126  -5.870  1.00 54.39      A16S
ATOM   2979  O1P A   A 149     102.364  25.763  -6.376  1.00 66.49      A16S
ATOM   2980  O2P A   A 149     101.338  27.294  -4.573  1.00 66.49      A16S
ATOM   2981  O5* A   A 149     103.453  27.882  -5.754  1.00 54.39      A16S
ATOM   2982  C5* A   A 149     104.203  28.226  -6.925  1.00 54.39      A16S
ATOM   2983  C4* A   A 149     105.169  29.337  -6.607  1.00 54.39      A16S
ATOM   2984  O4* A   A 149     104.444  30.513  -6.168  1.00 54.39      A16S
ATOM   2985  C1* A   A 149     105.219  31.219  -5.214  1.00 54.39      A16S
ATOM   2986  N9  A   A 149     104.404  31.500  -4.026  1.00 66.49      A16S
ATOM   2987  C4  A   A 149     104.723  32.413  -3.049  1.00 66.49      A16S
ATOM   2988  N3  A   A 149     105.822  33.182  -2.979  1.00 66.49      A16S
ATOM   2989  C2  A   A 149     105.788  33.949  -1.899  1.00 66.49      A16S
ATOM   2990  N1  A   A 149     104.850  34.039  -0.956  1.00 66.49      A16S
ATOM   2991  C6  A   A 149     103.753  33.263  -1.062  1.00 66.49      A16S
ATOM   2992  N6  A   A 149     102.803  33.375  -0.136  1.00 66.49      A16S
ATOM   2993  C5  A   A 149     103.674  32.388  -2.154  1.00 66.49      A16S
ATOM   2994  N7  A   A 149     102.715  31.465  -2.545  1.00 66.49      A16S
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ATOM   2995  C8  A   A 149     103.196  30.963  -3.655  1.00 66.49      A16S
ATOM   2996  C2* A   A 149     106.496  30.418  -4.950  1.00 54.39      A16S
ATOM   2997  O2* A   A 149     107.564  30.990  -5.676  1.00 54.39      A16S
ATOM   2998  C3* A   A 149     106.112  29.038  -5.463  1.00 54.39      A16S
ATOM   2999  O3* A   A 149     107.234  28.332  -5.925  1.00 54.39      A16S
ATOM   3000  P   C   A 150     108.087  27.463  -4.892  1.00 42.56      A16S
ATOM   3001  O1P C   A 150     108.854  26.456  -5.684  1.00 57.96      A16S
ATOM   3002  O2P C   A 150     107.198  27.019  -3.781  1.00 57.96      A16S
ATOM   3003  O5* C   A 150     109.121  28.492  -4.274  1.00 42.56      A16S
ATOM   3004  C5* C   A 150     109.937  29.312  -5.112  1.00 42.56      A16S
ATOM   3005  C4* C   A 150     110.561  30.392  -4.281  1.00 42.56      A16S
ATOM   3006  O4* C   A 150     109.517  31.244  -3.760  1.00 42.56      A16S
ATOM   3007  C1* C   A 150     109.837  31.636  -2.448  1.00 42.56      A16S
ATOM   3008  N1  C   A 150     108.668  31.379  -1.596  1.00 57.96      A16S
ATOM   3009  C6  C   A 150     107.758  30.413  -1.922  1.00 57.96      A16S
ATOM   3010  C2  C   A 150     108.491  32.155  -0.449  1.00 57.96      A16S
ATOM   3011  O2  C   A 150     109.332  33.026  -0.174  1.00 57.96      A16S
ATOM   3012  N3  C   A 150     107.410  31.942   0.329  1.00 57.96      A16S
ATOM   3013  C4  C   A 150     106.530  31.002   0.001  1.00 57.96      A16S
ATOM   3014  N4  C   A 150     105.487  30.831   0.798  1.00 57.96      A16S
ATOM   3015  C5  C   A 150     106.684  30.195  -1.162  1.00 57.96      A16S
ATOM   3016  C2* C   A 150     111.162  30.981  -2.048  1.00 42.56      A16S
ATOM   3017  O2* C   A 150     112.197  31.929  -2.179  1.00 42.56      A16S
ATOM   3018  C3* C   A 150     111.273  29.849  -3.063  1.00 42.56      A16S
ATOM   3019  O3* C   A 150     112.601  29.532  -3.447  1.00 42.56      A16S
ATOM   3020  P   A   A 151     113.588  28.838  -2.399  1.00 45.34      A16S
ATOM   3021  O1P A   A 151     114.875  28.603  -3.111  1.00 50.03      A16S
ATOM   3022  O2P A   A 151     112.872  27.687  -1.781  1.00 50.03      A16S
ATOM   3023  O5* A   A 151     113.773  29.962  -1.276  1.00 45.34      A16S
ATOM   3024  C5* A   A 151     113.961  29.608   0.115  1.00 45.34      A16S
ATOM   3025  C4* A   A 151     114.024  30.854   0.974  1.00 45.34      A16S
ATOM   3026  O4* A   A 151     112.728  31.504   0.994  1.00 45.34      A16S
ATOM   3027  C1* A   A 151     112.538  32.141   2.244  1.00 45.34      A16S
ATOM   3028  N9  A   A 151     111.246  31.749   2.799  1.00 50.03      A16S
ATOM   3029  C4  A   A 151     110.649  32.322   3.894  1.00 50.03      A16S
ATOM   3030  N3  A   A 151     111.134  33.312   4.658  1.00 50.03      A16S
ATOM   3031  C2  A   A 151     110.276  33.628   5.611  1.00 50.03      A16S
ATOM   3032  N1  A   A 151     109.077  33.108   5.872  1.00 50.03      A16S
ATOM   3033  C6  A   A 151     108.616  32.112   5.085  1.00 50.03      A16S
ATOM   3034  N6  A   A 151     107.414  31.592   5.346  1.00 50.03      A16S
ATOM   3035  C5  A   A 151     109.434  31.685   4.037  1.00 50.03      A16S
ATOM   3036  N7  A   A 151     109.270  30.713   3.063  1.00 50.03      A16S
ATOM   3037  C8  A   A 151     110.373  30.787   2.359  1.00 50.03      A16S
ATOM   3038  C2* A   A 151     113.724  31.810   3.142  1.00 45.34      A16S
ATOM   3039  O2* A   A 151     114.588  32.921   3.178  1.00 45.34      A16S
ATOM   3040  C3* A   A 151     114.331  30.606   2.439  1.00 45.34      A16S
ATOM   3041  O3* A   A 151     115.725  30.530   2.672  1.00 45.34      A16S
ATOM   3042  P   A   A 152     116.283  29.447   3.707  1.00 45.20      A16S
ATOM   3043  O1P A   A 152     117.696  29.748   4.025  1.00 52.59      A16S
ATOM   3044  O2P A   A 152     115.931  28.132   3.137  1.00 52.59      A16S
ATOM   3045  O5* A   A 152     115.408  29.678   5.025  1.00 45.20      A16S
ATOM   3046  C5* A   A 152     115.585  30.866   5.833  1.00 45.20      A16S
ATOM   3047  C4* A   A 152     114.515  30.967   6.904  1.00 45.20      A16S
ATOM   3048  O4* A   A 152     113.206  31.063   6.297  1.00 45.20      A16S
ATOM   3049  C1* A   A 152     112.236  30.654   7.234  1.00 45.20      A16S
ATOM   3050  N9  A   A 152     111.287  29.759   6.588  1.00 52.59      A16S
ATOM   3051  C4  A   A 152     110.018  29.514   7.044  1.00 52.59      A16S
ATOM   3052  N3  A   A 152     109.423  30.064   8.114  1.00 52.59      A16S
ATOM   3053  C2  A   A 152     108.199  29.572   8.266  1.00 52.59      A16S
ATOM   3054  N1  A   A 152     107.553  28.662   7.524  1.00 52.59      A16S
ATOM   3055  C6  A   A 152     108.184  28.137   6.455  1.00 52.59      A16S
ATOM   3056  N6  A   A 152     107.541  27.234   5.720  1.00 52.59      A16S
ATOM   3057  C5  A   A 152     109.483  28.576   6.186  1.00 52.59      A16S
ATOM   3058  N7  A   A 152     110.389  28.251   5.193  1.00 52.59      A16S
ATOM   3059  C8  A   A 152     111.439  28.985   5.473  1.00 52.59      A16S
ATOM   3060  C2* A   A 152     112.956  29.978   8.400  1.00 45.20      A16S
ATOM   3061  O2* A   A 152     112.919  30.814   9.534  1.00 45.20      A16S
ATOM   3062  C3* A   A 152     114.361  29.790   7.846  1.00 45.20      A16S
ATOM   3063  O3* A   A 152     115.319  29.803   8.888  1.00 45.20      A16S
ATOM   3064  P   C   A 153     116.248  28.515   9.102  1.00 58.99      A16S
ATOM   3065  O1P C   A 153     117.047  28.660  10.348  1.00 60.15      A16S
ATOM   3066  O2P C   A 153     116.950  28.307   7.809  1.00 60.15      A16S
ATOM   3067  O5* C   A 153     115.185  27.346   9.311  1.00 58.99      A16S
ATOM   3068  C5* C   A 153     114.268  27.375  10.425  1.00 58.99      A16S
ATOM   3069  C4* C   A 153     113.189  26.329  10.255  1.00 58.99      A16S
ATOM   3070  O4* C   A 153     112.282  26.715   9.192  1.00 58.99      A16S
ATOM   3071  C1* C   A 153     111.838  25.556   8.500  1.00 58.99      A16S
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ATOM   3072  N1  C   A 153     112.263  25.651   7.088  1.00 60.15      A16S
ATOM   3073  C6  C   A 153     113.419  26.298   6.741  1.00 60.15      A16S
ATOM   3074  C2  C   A 153     111.461  25.055   6.096  1.00 60.15      A16S
ATOM   3075  O2  C   A 153     110.411  24.474   6.431  1.00 60.15      A16S
ATOM   3076  N3  C   A 153     111.851  25.129   4.804  1.00 60.15      A16S
ATOM   3077  C4  C   A 153     112.982  25.761   4.484  1.00 60.15      A16S
ATOM   3078  N4  C   A 153     113.326  25.804   3.203  1.00 60.15      A16S
ATOM   3079  C5  C   A 153     113.811  26.375   5.465  1.00 60.15      A16S
ATOM   3080  C2* C   A 153     112.442  24.338   9.197  1.00 58.99      A16S
ATOM   3081  O2* C   A 153     111.524  23.836  10.142  1.00 58.99      A16S
ATOM   3082  C3* C   A 153     113.669  24.944   9.859  1.00 58.99      A16S
ATOM   3083  O3* C   A 153     114.093  24.188  10.972  1.00 58.99      A16S
ATOM   3084  P   C   A 154     115.212  23.054  10.775  1.00 73.47      A16S
ATOM   3085  O1P C   A 154     115.379  22.450  12.115  1.00 80.34      A16S
ATOM   3086  O2P C   A 154     116.398  23.605  10.071  1.00 80.34      A16S
ATOM   3087  O5* C   A 154     114.499  21.992   9.825  1.00 73.47      A16S
ATOM   3088  C5* C   A 154     113.427  21.158  10.321  1.00 73.47      A16S
ATOM   3089  C4* C   A 154     113.051  20.117   9.291  1.00 73.47      A16S
ATOM   3090  O4* C   A 154     112.387  20.764   8.176  1.00 73.47      A16S
ATOM   3091  C1* C   A 154     112.784  20.150   6.958  1.00 73.47      A16S
ATOM   3092  N1  C   A 154     113.476  21.160   6.133  1.00 80.34      A16S
ATOM   3093  C6  C   A 154     114.294  22.092   6.710  1.00 80.34      A16S
ATOM   3094  C2  C   A 154     113.296  21.143   4.745  1.00 80.34      A16S
ATOM   3095  O2  C   A 154     112.535  20.300   4.243  1.00 80.34      A16S
ATOM   3096  N3  C   A 154     113.952  22.047   3.988  1.00 80.34      A16S
ATOM   3097  C4  C   A 154     114.754  22.943   4.562  1.00 80.34      A16S
ATOM   3098  N4  C   A 154     115.387  23.810   3.774  1.00 80.34      A16S
ATOM   3099  C5  C   A 154     114.944  22.991   5.969  1.00 80.34      A16S
ATOM   3100  C2* C   A 154     113.695  18.969   7.301  1.00 73.47      A16S
ATOM   3101  O2* C   A 154     112.956  17.764   7.319  1.00 73.47      A16S
ATOM   3102  C3* C   A 154     114.228  19.383   8.666  1.00 73.47      A16S
ATOM   3103  O3* C   A 154     114.672  18.283   9.440  1.00 73.47      A16S
ATOM   3104  P   C   A 155     116.208  17.833   9.345  1.00 84.14      A16S
ATOM   3105  O1P C   A 155     116.426  16.814  10.407  1.00101.31      A16S
ATOM   3106  O2P C   A 155     117.060  19.052   9.310  1.00101.31      A16S
ATOM   3107  O5* C   A 155     116.308  17.144   7.911  1.00 84.14      A16S
ATOM   3108  C5* C   A 155     115.604  15.918   7.628  1.00 84.14      A16S
ATOM   3109  C4* C   A 155     115.905  15.442   6.227  1.00 84.14      A16S
ATOM   3110  O4* C   A 155     115.282  16.328   5.264  1.00 84.14      A16S
ATOM   3111  C1* C   A 155     116.121  16.465   4.127  1.00 84.14      A16S
ATOM   3112  N1  C   A 155     116.532  17.882   4.010  1.00101.31      A16S
ATOM   3113  C6  C   A 155     116.292  18.768   5.022  1.00101.31      A16S
ATOM   3114  C2  C   A 155     117.187  18.306   2.844  1.00101.31      A16S
ATOM   3115  O2  C   A 155     117.390  17.489   1.933  1.00101.31      A16S
ATOM   3116  N3  C   A 155     117.584  19.590   2.742  1.00101.31      A16S
ATOM   3117  C4  C   A 155     117.351  20.440   3.740  1.00101.31      A16S
ATOM   3118  N4  C   A 155     117.769  21.694   3.599  1.00101.31      A16S
ATOM   3119  C5  C   A 155     116.681  20.042   4.930  1.00101.31      A16S
ATOM   3120  C2* C   A 155     117.323  15.539   4.324  1.00 84.14      A16S
ATOM   3121  O2* C   A 155     117.090  14.301   3.681  1.00 84.14      A16S
ATOM   3122  C3* C   A 155     117.373  15.426   5.840  1.00 84.14      A16S
ATOM   3123  O3* C   A 155     118.035  14.254   6.265  1.00 84.14      A16S
ATOM   3124  P   G   A 156     119.631  14.264   6.409  1.00 96.25      A16S
ATOM   3125  O1P G   A 156     120.034  12.930   6.928  1.00109.47      A16S
ATOM   3126  O2P G   A 156     120.028  15.487   7.153  1.00109.47      A16S
ATOM   3127  O5* G   A 156     120.134  14.394   4.904  1.00 96.25      A16S
ATOM   3128  C5* G   A 156     119.889  13.330   3.972  1.00 96.25      A16S
ATOM   3129  C4* G   A 156     120.349  13.705   2.585  1.00 96.25      A16S
ATOM   3130  O4* G   A 156     119.527  14.778   2.051  1.00 96.25      A16S
ATOM   3131  C1* G   A 156     120.301  15.560   1.153  1.00 96.25      A16S
ATOM   3132  N9  G   A 156     120.431  16.913   1.684  1.00109.47      A16S
ATOM   3133  C4  G   A 156     120.855  18.011   0.977  1.00109.47      A16S
ATOM   3134  N3  G   A 156     121.155  18.033  -0.339  1.00109.47      A16S
ATOM   3135  C2  G   A 156     121.568  19.219  -0.730  1.00109.47      A16S
ATOM   3136  N2  G   A 156     121.892  19.410  -2.010  1.00109.47      A16S
ATOM   3137  N1  G   A 156     121.690  20.302   0.104  1.00109.47      A16S
ATOM   3138  C6  G   A 156     121.390  20.302   1.466  1.00109.47      A16S
ATOM   3139  O6  G   A 156     121.545  21.331   2.135  1.00109.47      A16S
ATOM   3140  C5  G   A 156     120.930  19.033   1.896  1.00109.47      A16S
ATOM   3141  N7  G   A 156     120.522  18.599   3.151  1.00109.47      A16S
ATOM   3142  C8  G   A 156     120.226  17.340   2.976  1.00109.47      A16S
ATOM   3143  C2* G   A 156     121.698  14.939   1.092  1.00 96.25      A16S
ATOM   3144  O2* G   A 156     121.811  14.052  -0.004  1.00 96.25      A16S
ATOM   3145  C3* G   A 156     121.769  14.225   2.430  1.00 96.25      A16S
ATOM   3146  O3* G   A 156     122.756  13.218   2.418  1.00 96.25      A16S
ATOM   3147  P   G   A 157     124.262  13.590   2.835  1.00113.14      A16S
ATOM   3148  O1P G   A 157     124.968  12.289   2.932  1.00 93.87      A16S
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ATOM   3149  O2P G   A 157     124.238  14.504   4.007  1.00 93.87      A16S
ATOM   3150  O5* G   A 157     124.831  14.390   1.581  1.00113.14      A16S
ATOM   3151  C5* G   A 157     125.020  13.716   0.332  1.00113.14      A16S
ATOM   3152  C4* G   A 157     125.520  14.662  -0.731  1.00113.14      A16S
ATOM   3153  O4* G   A 157     124.524  15.684  -1.004  1.00113.14      A16S
ATOM   3154  C1* G   A 157     125.171  16.863  -1.462  1.00113.14      A16S
ATOM   3155  N9  G   A 157     124.880  17.972  -0.553  1.00 93.87      A16S
ATOM   3156  C4  G   A 157     125.222  19.290  -0.759  1.00 93.87      A16S
ATOM   3157  N3  G   A 157     125.844  19.784  -1.850  1.00 93.87      A16S
ATOM   3158  C2  G   A 157     126.066  21.078  -1.747  1.00 93.87      A16S
ATOM   3159  N2  G   A 157     126.679  21.725  -2.740  1.00 93.87      A16S
ATOM   3160  N1  G   A 157     125.709  21.834  -0.661  1.00 93.87      A16S
ATOM   3161  C6  G   A 157     125.074  21.350   0.477  1.00 93.87      A16S
ATOM   3162  O6  G   A 157     124.816  22.121   1.416  1.00 93.87      A16S
ATOM   3163  C5  G   A 157     124.819  19.956   0.376  1.00 93.87      A16S
ATOM   3164  N7  G   A 157     124.211  19.084   1.268  1.00 93.87      A16S
ATOM   3165  C8  G   A 157     124.263  17.922   0.674  1.00 93.87      A16S
ATOM   3166  C2* G   A 157     126.671  16.577  -1.479  1.00113.14      A16S
ATOM   3167  O2* G   A 157     127.057  16.160  -2.775  1.00113.14      A16S
ATOM   3168  C3* G   A 157     126.785  15.456  -0.456  1.00113.14      A16S
ATOM   3169  O3* G   A 157     127.987  14.721  -0.639  1.00113.14      A16S
ATOM   3170  P   G   A 158     129.366  15.294  -0.026  1.00106.98      A16S
ATOM   3171  O1P G   A 158     130.431  14.290  -0.277  1.00116.34      A16S
ATOM   3172  O2P G   A 158     129.111  15.757   1.363  1.00116.34      A16S
ATOM   3173  O5* G   A 158     129.684  16.574  -0.922  1.00106.98      A16S
ATOM   3174  C5* G   A 158     129.964  16.446  -2.333  1.00106.98      A16S
ATOM   3175  C4* G   A 158     130.463  17.759  -2.893  1.00106.98      A16S
ATOM   3176  O4* G   A 158     129.386  18.736  -2.929  1.00106.98      A16S
ATOM   3177  C1* G   A 158     129.897  20.028  -2.628  1.00106.98      A16S
ATOM   3178  N9  G   A 158     129.286  20.496  -1.384  1.00116.34      A16S
ATOM   3179  C4  G   A 158     129.309  21.782  -0.887  1.00116.34      A16S
ATOM   3180  N3  G   A 158     129.904  22.848  -1.466  1.00116.34      A16S
ATOM   3181  C2  G   A 158     129.764  23.946  -0.742  1.00116.34      A16S
ATOM   3182  N2  G   A 158     130.308  25.096  -1.165  1.00116.34      A16S
ATOM   3183  N1  G   A 158     129.085  23.998   0.451  1.00116.34      A16S
ATOM   3184  C6  G   A 158     128.459  22.917   1.064  1.00116.34      A16S
ATOM   3185  O6  G   A 158     127.858  23.075   2.139  1.00116.34      A16S
ATOM   3186  C5  G   A 158     128.615  21.727   0.303  1.00116.34      A16S
ATOM   3187  N7  G   A 158     128.168  20.437   0.552  1.00116.34      A16S
ATOM   3188  C8  G   A 158     128.588  19.744  -0.470  1.00116.34      A16S
ATOM   3189  C2* G   A 158     131.412  19.896  -2.479  1.00106.98      A16S
ATOM   3190  O2* G   A 158     132.051  20.196  -3.705  1.00106.98      A16S
ATOM   3191  C3* G   A 158     131.550  18.435  -2.076  1.00106.98      A16S
ATOM   3192  O3* G   A 158     132.844  17.918  -2.321  1.00106.98      A16S
ATOM   3193  P   G   A 159     133.956  18.027  -1.170  1.00109.64      A16S
ATOM   3194  O1P G   A 159     135.230  17.531  -1.754  1.00116.66      A16S
ATOM   3195  O2P G   A 159     133.431  17.418   0.080  1.00116.66      A16S
ATOM   3196  O5* G   A 159     134.084  19.594  -0.923  1.00109.64      A16S
ATOM   3197  C5* G   A 159     134.645  20.453  -1.932  1.00109.64      A16S
ATOM   3198  C4* G   A 159     134.980  21.802  -1.346  1.00109.64      A16S
ATOM   3199  O4* G   A 159     133.772  22.570  -1.129  1.00109.64      A16S
ATOM   3200  C1* G   A 159     133.932  23.387   0.019  1.00109.64      A16S
ATOM   3201  N9  G   A 159     132.889  23.054   0.981  1.00116.66      A16S
ATOM   3202  C4  G   A 159     132.486  23.828   2.039  1.00116.66      A16S
ATOM   3203  N3  G   A 159     132.967  25.048   2.357  1.00116.66      A16S
ATOM   3204  C2  G   A 159     132.397  25.536   3.447  1.00116.66      A16S
ATOM   3205  N2  G   A 159     132.754  26.747   3.908  1.00116.66      A16S
ATOM   3206  N1  G   A 159     131.434  24.875   4.166  1.00116.66      A16S
ATOM   3207  C6  G   A 159     130.922  23.620   3.854  1.00116.66      A16S
ATOM   3208  O6  G   A 159     130.051  23.114   4.571  1.00116.66      A16S
ATOM   3209  C5  G   A 159     131.523  23.088   2.686  1.00116.66      A16S
ATOM   3210  N7  G   A 159     131.309  21.883   2.036  1.00116.66      A16S
ATOM   3211  C8  G   A 159     132.135  21.908   1.029  1.00116.66      A16S
ATOM   3212  C2* G   A 159     135.331  23.136   0.589  1.00109.64      A16S
ATOM   3213  O2* G   A 159     136.223  24.137   0.147  1.00109.64      A16S
ATOM   3214  C3* G   A 159     135.666  21.771   0.007  1.00109.64      A16S
ATOM   3215  O3* G   A 159     137.065  21.582  -0.115  1.00109.64      A16S
ATOM   3216  P   A   A 160     137.855  20.803   1.040  1.00 90.71      A16S
ATOM   3217  O1P A   A 160     139.309  20.912   0.734  1.00114.45      A16S
ATOM   3218  O2P A   A 160     137.228  19.462   1.175  1.00114.45      A16S
ATOM   3219  O5* A   A 160     137.537  21.641   2.359  1.00 90.71      A16S
ATOM   3220  C5* A   A 160     137.976  21.188   3.657  1.00 90.71      A16S
ATOM   3221  C4* A   A 160     138.583  22.336   4.428  1.00 90.71      A16S
ATOM   3222  O4* A   A 160     139.752  22.813   3.709  1.00 90.71      A16S
ATOM   3223  C1* A   A 160     139.818  24.228   3.776  1.00 90.71      A16S
ATOM   3224  N9  A   A 160     139.732  24.754   2.409  1.00114.45      A16S
ATOM   3225  C4  A   A 160     139.994  26.044   2.009  1.00114.45      A16S
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ATOM   3226  N3  A   A 160     140.382  27.076   2.779  1.00114.45      A16S
ATOM   3227  C2  A   A 160     140.542  28.173   2.046  1.00114.45      A16S
ATOM   3228  N1  A   A 160     140.372  28.346   0.730  1.00114.45      A16S
ATOM   3229  C6  A   A 160     139.981  27.291  -0.016  1.00114.45      A16S
ATOM   3230  N6  A   A 160     139.812  27.464  -1.331  1.00114.45      A16S
ATOM   3231  C5  A   A 160     139.777  26.067   0.641  1.00114.45      A16S
ATOM   3232  N7  A   A 160     139.386  24.817   0.183  1.00114.45      A16S
ATOM   3233  C8  A   A 160     139.375  24.076   1.265  1.00114.45      A16S
ATOM   3234  C2* A   A 160     138.675  24.706   4.679  1.00 90.71      A16S
ATOM   3235  O2* A   A 160     139.128  24.899   6.006  1.00 90.71      A16S
ATOM   3236  C3* A   A 160     137.683  23.556   4.560  1.00 90.71      A16S
ATOM   3237  O3* A   A 160     136.807  23.473   5.681  1.00 90.71      A16S
ATOM   3238  P   A   A 161     135.345  24.134   5.592  1.00117.07      A16S
ATOM   3239  O1P A   A 161     134.652  23.919   6.883  1.00 73.27      A16S
ATOM   3240  O2P A   A 161     134.720  23.640   4.336  1.00 73.27      A16S
ATOM   3241  O5* A   A 161     135.639  25.695   5.450  1.00117.07      A16S
ATOM   3242  C5* A   A 161     136.317  26.424   6.500  1.00117.07      A16S
ATOM   3243  C4* A   A 161     136.695  27.811   6.022  1.00117.07      A16S
ATOM   3244  O4* A   A 161     137.633  27.691   4.924  1.00117.07      A16S
ATOM   3245  C1* A   A 161     137.364  28.685   3.953  1.00117.07      A16S
ATOM   3246  N9  A   A 161     136.922  28.007   2.741  1.00 73.27      A16S
ATOM   3247  C4  A   A 161     137.072  28.451   1.452  1.00 73.27      A16S
ATOM   3248  N3  A   A 161     137.672  29.578   1.045  1.00 73.27      A16S
ATOM   3249  C2  A   A 161     137.623  29.679  -0.277  1.00 73.27      A16S
ATOM   3250  N1  A   A 161     137.083  28.847  -1.170  1.00 73.27      A16S
ATOM   3251  C6  A   A 161     136.487  27.723  -0.727  1.00 73.27      A16S
ATOM   3252  N6  A   A 161     135.945  26.890  -1.620  1.00 73.27      A16S
ATOM   3253  C5  A   A 161     136.472  27.497   0.655  1.00 73.27      A16S
ATOM   3254  N7  A   A 161     135.961  26.464   1.426  1.00 73.27      A16S
ATOM   3255  C8  A   A 161     136.256  26.812   2.651  1.00 73.27      A16S
ATOM   3256  C2* A   A 161     136.259  29.588   4.497  1.00117.07      A16S
ATOM   3257  O2* A   A 161     136.827  30.713   5.131  1.00117.07      A16S
ATOM   3258  C3* A   A 161     135.554  28.654   5.469  1.00117.07      A16S
ATOM   3259  O3* A   A 161     134.883  29.378   6.487  1.00117.07      A16S
ATOM   3260  P   A   A 162     133.373  29.864   6.245  1.00102.76      A16S
ATOM   3261  O1P A   A 162     132.951  30.599   7.468  1.00 92.33      A16S
ATOM   3262  O2P A   A 162     132.563  28.711   5.761  1.00 92.33      A16S
ATOM   3263  O5* A   A 162     133.489  30.888   5.032  1.00102.76      A16S
ATOM   3264  C5* A   A 162     133.942  32.235   5.236  1.00102.76      A16S
ATOM   3265  C4* A   A 162     133.830  33.012   3.949  1.00102.76      A16S
ATOM   3266  O4* A   A 162     134.632  32.343   2.945  1.00102.76      A16S
ATOM   3267  C1* A   A 162     133.992  32.429   1.685  1.00102.76      A16S
ATOM   3268  N9  A   A 162     133.733  31.069   1.206  1.00 92.33      A16S
ATOM   3269  C4  A   A 162     133.849  30.633  -0.093  1.00 92.33      A16S
ATOM   3270  N3  A   A 162     134.239  31.348  -1.163  1.00 92.33      A16S
ATOM   3271  C2  A   A 162     134.223  30.598  -2.263  1.00 92.33      A16S
ATOM   3272  N1  A   A 162     133.885  29.314  -2.407  1.00 92.33      A16S
ATOM   3273  C6  A   A 162     133.496  28.623  -1.313  1.00 92.33      A16S
ATOM   3274  N6  A   A 162     133.156  27.337  -1.459  1.00 92.33      A16S
ATOM   3275  C5  A   A 162     133.474  29.305  -0.080  1.00 92.33      A16S
ATOM   3276  N7  A   A 162     133.142  28.902   1.206  1.00 92.33      A16S
ATOM   3277  C8  A   A 162     133.315  29.980   1.929  1.00 92.33      A16S
ATOM   3278  C2* A   A 162     132.715  33.255   1.863  1.00102.76      A16S
ATOM   3279  O2* A   A 162     132.962  34.602   1.510  1.00102.76      A16S
ATOM   3280  C3* A   A 162     132.434  33.074   3.348  1.00102.76      A16S
ATOM   3281  O3* A   A 162     131.679  34.156   3.873  1.00102.76      A16S
ATOM   3282  P   C   A 163     130.267  33.870   4.587  1.00 78.43      A16S
ATOM   3283  O1P C   A 163     129.516  35.154   4.606  1.00106.01      A16S
ATOM   3284  O2P C   A 163     130.533  33.158   5.864  1.00106.01      A16S
ATOM   3285  O5* C   A 163     129.518  32.870   3.596  1.00 78.43      A16S
ATOM   3286  C5* C   A 163     128.806  33.357   2.443  1.00 78.43      A16S
ATOM   3287  C4* C   A 163     129.190  32.568   1.213  1.00 78.43      A16S
ATOM   3288  O4* C   A 163     130.274  31.652   1.527  1.00 78.43      A16S
ATOM   3289  C1* C   A 163     130.141  30.465   0.759  1.00 78.43      A16S
ATOM   3290  N1  C   A 163     129.896  29.324   1.664  1.00106.01      A16S
ATOM   3291  C6  C   A 163     129.725  29.509   3.008  1.00106.01      A16S
ATOM   3292  C2  C   A 163     129.802  28.038   1.114  1.00106.01      A16S
ATOM   3293  O2  C   A 163     130.012  27.883  -0.098  1.00106.01      A16S
ATOM   3294  N3  C   A 163     129.486  26.999   1.915  1.00106.01      A16S
ATOM   3295  C4  C   A 163     129.281  27.199   3.217  1.00106.01      A16S
ATOM   3296  N4  C   A 163     128.926  26.150   3.962  1.00106.01      A16S
ATOM   3297  C5  C   A 163     129.419  28.484   3.813  1.00106.01      A16S
ATOM   3298  C2* C   A 163     128.935  30.657  -0.156  1.00 78.43      A16S
ATOM   3299  O2* C   A 163     129.373  31.147  -1.406  1.00 78.43      A16S
ATOM   3300  C3* C   A 163     128.114  31.670   0.628  1.00 78.43      A16S
ATOM   3301  O3* C   A 163     127.199  32.360  -0.206  1.00 78.43      A16S
ATOM   3302  P   U   A 164     125.739  31.735  -0.465  1.00113.71      A16S
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ATOM   3303  O1P U   A 164     124.978  32.686  -1.319  1.00133.53      A16S
ATOM   3304  O2P U   A 164     125.175  31.308   0.843  1.00133.53      A16S
ATOM   3305  O5* U   A 164     126.030  30.436  -1.337  1.00113.71      A16S
ATOM   3306  C5* U   A 164     126.775  30.531  -2.563  1.00113.71      A16S
ATOM   3307  C4* U   A 164     127.034  29.157  -3.128  1.00113.71      A16S
ATOM   3308  O4* U   A 164     127.775  28.365  -2.164  1.00113.71      A16S
ATOM   3309  C1* U   A 164     127.347  27.015  -2.224  1.00113.71      A16S
ATOM   3310  N1  U   A 164     126.778  26.646  -0.916  1.00133.53      A16S
ATOM   3311  C6  U   A 164     126.729  27.545   0.125  1.00133.53      A16S
ATOM   3312  C2  U   A 164     126.285  25.358  -0.761  1.00133.53      A16S
ATOM   3313  O2  U   A 164     126.302  24.526  -1.652  1.00133.53      A16S
ATOM   3314  N3  U   A 164     125.767  25.080   0.479  1.00133.53      A16S
ATOM   3315  C4  U   A 164     125.691  25.933   1.558  1.00133.53      A16S
ATOM   3316  O4  U   A 164     125.198  25.531   2.614  1.00133.53      A16S
ATOM   3317  C5  U   A 164     126.219  27.242   1.321  1.00133.53      A16S
ATOM   3318  C2* U   A 164     126.329  26.906  -3.360  1.00113.71      A16S
ATOM   3319  O2* U   A 164     126.992  26.524  -4.549  1.00113.71      A16S
ATOM   3320  C3* U   A 164     125.797  28.328  -3.433  1.00113.71      A16S
ATOM   3321  O3* U   A 164     125.257  28.633  -4.712  1.00113.71      A16S
ATOM   3322  P   C   A 165     123.695  28.386  -4.991  1.00 82.18      A16S
ATOM   3323  O1P C   A 165     123.331  29.151  -6.210  1.00 95.90      A16S
ATOM   3324  O2P C   A 165     122.939  28.606  -3.728  1.00 95.90      A16S
ATOM   3325  O5* C   A 165     123.618  26.842  -5.353  1.00 82.18      A16S
ATOM   3326  C5* C   A 165     124.194  26.353  -6.571  1.00 82.18      A16S
ATOM   3327  C4* C   A 165     123.909  24.882  -6.726  1.00 82.18      A16S
ATOM   3328  O4* C   A 165     124.565  24.162  -5.651  1.00 82.18      A16S
ATOM   3329  C1* C   A 165     123.751  23.081  -5.235  1.00 82.18      A16S
ATOM   3330  N1  C   A 165     123.340  23.316  -3.840  1.00 95.90      A16S
ATOM   3331  C6  C   A 165     123.143  24.583  -3.366  1.00 95.90      A16S
ATOM   3332  C2  C   A 165     123.137  22.211  -3.006  1.00 95.90      A16S
ATOM   3333  O2  C   A 165     123.333  21.070  -3.461  1.00 95.90      A16S
ATOM   3334  N3  C   A 165     122.733  22.411  -1.729  1.00 95.90      A16S
ATOM   3335  C4  C   A 165     122.536  23.654  -1.280  1.00 95.90      A16S
ATOM   3336  N4  C   A 165     122.131  23.806  -0.015  1.00 95.90      A16S
ATOM   3337  C5  C   A 165     122.744  24.796  -2.107  1.00 95.90      A16S
ATOM   3338  C2* C   A 165     122.541  23.035  -6.164  1.00 82.18      A16S
ATOM   3339  O2* C   A 165     122.804  22.174  -7.255  1.00 82.18      A16S
ATOM   3340  C3* C   A 165     122.449  24.487  -6.596  1.00 82.18      A16S
ATOM   3341  O3* C   A 165     121.696  24.655  -7.780  1.00 82.18      A16S
ATOM   3342  P   G   A 166     120.111  24.893  -7.662  1.00 74.69      A16S
ATOM   3343  O1P G   A 166     119.574  25.099  -9.034  1.00 93.58      A16S
ATOM   3344  O2P G   A 166     119.871  25.926  -6.616  1.00 93.58      A16S
ATOM   3345  O5* G   A 166     119.565  23.498  -7.118  1.00 74.69      A16S
ATOM   3346  C5* G   A 166     119.779  22.301  -7.885  1.00 74.69      A16S
ATOM   3347  C4* G   A 166     119.285  21.078  -7.149  1.00 74.69      A16S
ATOM   3348  O4* G   A 166     120.115  20.783  -6.000  1.00 74.69      A16S
ATOM   3349  C1* G   A 166     119.341  20.107  -5.028  1.00 74.69      A16S
ATOM   3350  N9  G   A 166     119.407  20.841  -3.767  1.00 93.58      A16S
ATOM   3351  C4  G   A 166     118.967  20.386  -2.545  1.00 93.58      A16S
ATOM   3352  N3  G   A 166     118.408  19.182  -2.304  1.00 93.58      A16S
ATOM   3353  C2  G   A 166     118.070  19.040  -1.040  1.00 93.58      A16S
ATOM   3354  N2  G   A 166     117.492  17.907  -0.633  1.00 93.58      A16S
ATOM   3355  N1  G   A 166     118.268  20.002  -0.084  1.00 93.58      A16S
ATOM   3356  C6  G   A 166     118.841  21.248  -0.309  1.00 93.58      A16S
ATOM   3357  O6  G   A 166     118.968  22.043   0.623  1.00 93.58      A16S
ATOM   3358  C5  G   A 166     119.208  21.414  -1.663  1.00 93.58      A16S
ATOM   3359  N7  G   A 166     119.800  22.490  -2.309  1.00 93.58      A16S
ATOM   3360  C8  G   A 166     119.900  22.106  -3.553  1.00 93.58      A16S
ATOM   3361  C2* G   A 166     117.915  19.993  -5.566  1.00 74.69      A16S
ATOM   3362  O2* G   A 166     117.762  18.724  -6.166  1.00 74.69      A16S
ATOM   3363  C3* G   A 166     117.879  21.113  -6.595  1.00 74.69      A16S
ATOM   3364  O3* G   A 166     116.929  20.857  -7.606  1.00 74.69      A16S
ATOM   3365  P   G   A 167     115.405  21.289  -7.375  1.00 60.86      A16S
ATOM   3366  O1P G   A 167     114.667  20.993  -8.633  1.00 89.27      A16S
ATOM   3367  O2P G   A 167     115.370  22.663  -6.812  1.00 89.27      A16S
ATOM   3368  O5* G   A 167     114.918  20.299  -6.223  1.00 60.86      A16S
ATOM   3369  C5* G   A 167     114.796  18.880  -6.456  1.00 60.86      A16S
ATOM   3370  C4* G   A 167     114.269  18.192  -5.219  1.00 60.86      A16S
ATOM   3371  O4* G   A 167     115.266  18.229  -4.171  1.00 60.86      A16S
ATOM   3372  C1* G   A 167     114.631  18.327  -2.912  1.00 60.86      A16S
ATOM   3373  N9  G   A 167     115.109  19.526  -2.240  1.00 89.27      A16S
ATOM   3374  C4  G   A 167     114.987  19.801  -0.907  1.00 89.27      A16S
ATOM   3375  N3  G   A 167     114.437  18.991   0.017  1.00 89.27      A16S
ATOM   3376  C2  G   A 167     114.445  19.538   1.213  1.00 89.27      A16S
ATOM   3377  N2  G   A 167     113.941  18.865   2.253  1.00 89.27      A16S
ATOM   3378  N1  G   A 167     114.950  20.786   1.479  1.00 89.27      A16S
ATOM   3379  C6  G   A 167     115.519  21.637   0.534  1.00 89.27      A16S
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ATOM   3380  O6  G   A 167     115.940  22.753   0.870  1.00 89.27      A16S
ATOM   3381  C5  G   A 167     115.522  21.058  -0.744  1.00 89.27      A16S
ATOM   3382  N7  G   A 167     115.993  21.554  -1.948  1.00 89.27      A16S
ATOM   3383  C8  G   A 167     115.732  20.609  -2.806  1.00 89.27      A16S
ATOM   3384  C2* G   A 167     113.121  18.380  -3.145  1.00 60.86      A16S
ATOM   3385  O2* G   A 167     112.564  17.106  -2.911  1.00 60.86      A16S
ATOM   3386  C3* G   A 167     113.041  18.825  -4.597  1.00 60.86      A16S
ATOM   3387  O3* G   A 167     111.858  18.378  -5.228  1.00 60.86      A16S
ATOM   3388  P   G   A 168     110.564  19.325  -5.244  1.00 48.57      A16S
ATOM   3389  O1P G   A 168     109.539  18.695  -6.130  1.00 83.33      A16S
ATOM   3390  O2P G   A 168     111.012  20.724  -5.519  1.00 83.33      A16S
ATOM   3391  O5* G   A 168     110.044  19.257  -3.741  1.00 48.57      A16S
ATOM   3392  C5* G   A 168     109.446  18.062  -3.233  1.00 48.57      A16S
ATOM   3393  C4* G   A 168     109.022  18.250  -1.800  1.00 48.57      A16S
ATOM   3394  O4* G   A 168     110.185  18.403  -0.954  1.00 48.57      A16S
ATOM   3395  C1* G   A 168     109.875  19.268   0.122  1.00 48.57      A16S
ATOM   3396  N9  G   A 168     110.814  20.387   0.089  1.00 83.33      A16S
ATOM   3397  C4  G   A 168     111.038  21.316   1.081  1.00 83.33      A16S
ATOM   3398  N3  G   A 168     110.433  21.356   2.286  1.00 83.33      A16S
ATOM   3399  C2  G   A 168     110.866  22.364   3.020  1.00 83.33      A16S
ATOM   3400  N2  G   A 168     110.393  22.535   4.259  1.00 83.33      A16S
ATOM   3401  N1  G   A 168     111.801  23.275   2.598  1.00 83.33      A16S
ATOM   3402  C6  G   A 168     112.431  23.257   1.358  1.00 83.33      A16S
ATOM   3403  O6  G   A 168     113.258  24.136   1.065  1.00 83.33      A16S
ATOM   3404  C5  G   A 168     111.992  22.168   0.572  1.00 83.33      A16S
ATOM   3405  N7  G   A 168     112.369  21.779  -0.703  1.00 83.33      A16S
ATOM   3406  C8  G   A 168     111.648  20.723  -0.947  1.00 83.33      A16S
ATOM   3407  C2* G   A 168     108.407  19.687  -0.024  1.00 48.57      A16S
ATOM   3408  O2* G   A 168     107.594  18.835   0.748  1.00 48.57      A16S
ATOM   3409  C3* G   A 168     108.159  19.461  -1.505  1.00 48.57      A16S
ATOM   3410  O3* G   A 168     106.797  19.169  -1.753  1.00 48.57      A16S
ATOM   3411  P   C   A 169     105.739  20.367  -1.898  1.00 52.72      A16S
ATOM   3412  O1P C   A 169     104.408  19.759  -2.192  1.00 88.23      A16S
ATOM   3413  O2P C   A 169     106.308  21.373  -2.835  1.00 88.23      A16S
ATOM   3414  O5* C   A 169     105.698  21.010  -0.441  1.00 52.72      A16S
ATOM   3415  C5* C   A 169     105.190  20.256   0.666  1.00 52.72      A16S
ATOM   3416  C4* C   A 169     105.154  21.094   1.918  1.00 52.72      A16S
ATOM   3417  O4* C   A 169     106.494  21.396   2.379  1.00 52.72      A16S
ATOM   3418  C1* C   A 169     106.441  22.539   3.211  1.00 52.72      A16S
ATOM   3419  N1  C   A 169     107.535  23.469   2.876  1.00 88.23      A16S
ATOM   3420  C6  C   A 169     108.026  23.569   1.605  1.00 88.23      A16S
ATOM   3421  C2  C   A 169     108.054  24.277   3.895  1.00 88.23      A16S
ATOM   3422  O2  C   A 169     107.620  24.139   5.054  1.00 88.23      A16S
ATOM   3423  N3  C   A 169     109.016  25.181   3.599  1.00 88.23      A16S
ATOM   3424  C4  C   A 169     109.470  25.285   2.353  1.00 88.23      A16S
ATOM   3425  N4  C   A 169     110.402  26.201   2.105  1.00 88.23      A16S
ATOM   3426  C5  C   A 169     108.984  24.456   1.303  1.00 88.23      A16S
ATOM   3427  C2* C   A 169     105.051  23.161   3.059  1.00 52.72      A16S
ATOM   3428  O2* C   A 169     104.289  22.853   4.208  1.00 52.72      A16S
ATOM   3429  C3* C   A 169     104.515  22.462   1.817  1.00 52.72      A16S
ATOM   3430  O3* C   A 169     103.107  22.392   1.856  1.00 52.72      A16S
ATOM   3431  P   U   A 170     102.244  23.564   1.175  1.00 53.33      A16S
ATOM   3432  O1P U   A 170     100.797  23.287   1.398  1.00 56.36      A16S
ATOM   3433  O2P U   A 170     102.752  23.760  -0.210  1.00 56.36      A16S
ATOM   3434  O5* U   A 170     102.604  24.838   2.056  1.00 53.33      A16S
ATOM   3435  C5* U   A 170     102.211  24.878   3.433  1.00 53.33      A16S
ATOM   3436  C4* U   A 170     102.606  26.182   4.066  1.00 53.33      A16S
ATOM   3437  O4* U   A 170     104.034  26.249   4.275  1.00 53.33      A16S
ATOM   3438  C1* U   A 170     104.465  27.587   4.140  1.00 53.33      A16S
ATOM   3439  N1  U   A 170     105.472  27.646   3.075  1.00 56.36      A16S
ATOM   3440  C6  U   A 170     105.407  26.835   1.966  1.00 56.36      A16S
ATOM   3441  C2  U   A 170     106.501  28.551   3.228  1.00 56.36      A16S
ATOM   3442  O2  U   A 170     106.586  29.298   4.194  1.00 56.36      A16S
ATOM   3443  N3  U   A 170     107.432  28.551   2.215  1.00 56.36      A16S
ATOM   3444  C4  U   A 170     107.438  27.756   1.095  1.00 56.36      A16S
ATOM   3445  O4  U   A 170     108.400  27.800   0.336  1.00 56.36      A16S
ATOM   3446  C5  U   A 170     106.332  26.859   0.997  1.00 56.36      A16S
ATOM   3447  C2* U   A 170     103.237  28.447   3.853  1.00 53.33      A16S
ATOM   3448  O2* U   A 170     102.775  28.977   5.078  1.00 53.33      A16S
ATOM   3449  C3* U   A 170     102.278  27.420   3.269  1.00 53.33      A16S
ATOM   3450  O3* U   A 170     100.926  27.767   3.448  1.00 53.33      A16S
ATOM   3451  P   A   A 171     100.298  28.925   2.548  1.00 47.28      A16S
ATOM   3452  O1P A   A 171      98.831  28.718   2.494  1.00 55.02      A16S
ATOM   3453  O2P A   A 171     101.077  28.969   1.279  1.00 55.02      A16S
ATOM   3454  O5* A   A 171     100.610  30.236   3.406  1.00 47.28      A16S
ATOM   3455  C5* A   A 171     100.127  30.355   4.767  1.00 47.28      A16S
ATOM   3456  C4* A   A 171     100.447  31.719   5.349  1.00 47.28      A16S
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ATOM   3457  O4*  A   A 171     101.845  31.804   5.707  1.00 47.28      A16S
ATOM   3458  C1*  A   A 171     102.305  33.126   5.506  1.00 47.28      A16S
ATOM   3459  N9   A   A 171     103.400  33.079   4.543  1.00 55.02      A16S
ATOM   3460  C4   A   A 171     104.567  33.794   4.619  1.00 55.02      A16S
ATOM   3461  N3   A   A 171     104.914  34.686   5.559  1.00 55.02      A16S
ATOM   3462  C2   A   A 171     106.129  35.158   5.327  1.00 55.02      A16S
ATOM   3463  N1   A   A 171     106.976  34.858   4.336  1.00 55.02      A16S
ATOM   3464  C6   A   A 171     106.588  33.960   3.408  1.00 55.02      A16S
ATOM   3465  N6   A   A 171     107.430  33.654   2.426  1.00 55.02      A16S
ATOM   3466  C5   A   A 171     105.320  33.396   3.538  1.00 55.02      A16S
ATOM   3467  N7   A   A 171     104.628  32.473   2.772  1.00 55.02      A16S
ATOM   3468  C8   A   A 171     103.497  32.322   3.408  1.00 55.02      A16S
ATOM   3469  C2*  A   A 171     101.127  33.971   5.030  1.00 47.28      A16S
ATOM   3470  O2*  A   A 171     100.564  34.647   6.133  1.00 47.28      A16S
ATOM   3471  C3*  A   A 171     100.210  32.910   4.448  1.00 47.28      A16S
ATOM   3472  O3*  A   A 171      98.871  33.325   4.467  1.00 47.28      A16S
ATOM   3473  P    A   A 172      98.278  34.045   3.172  1.00 48.02      A16S
ATOM   3474  O1P  A   A 172      96.799  34.094   3.260  1.00 39.07      A16S
ATOM   3475  O2P  A   A 172      98.923  33.379   2.006  1.00 39.07      A16S
ATOM   3476  O5*  A   A 172      98.807  35.540   3.308  1.00 48.02      A16S
ATOM   3477  C5*  A   A 172      98.307  36.379   4.357  1.00 48.02      A16S
ATOM   3478  C4*  A   A 172      99.178  37.588   4.529  1.00 48.02      A16S
ATOM   3479  O4*  A   A 172     100.522  37.172   4.866  1.00 48.02      A16S
ATOM   3480  C1*  A   A 172     101.447  38.082   4.309  1.00 48.02      A16S
ATOM   3481  N9   A   A 172     102.302  37.360   3.371  1.00 39.07      A16S
ATOM   3482  C4   A   A 172     103.651  37.535   3.193  1.00 39.07      A16S
ATOM   3483  N3   A   A 172     104.458  38.375   3.859  1.00 39.07      A16S
ATOM   3484  C2   A   A 172     105.700  38.297   3.390  1.00 39.07      A16S
ATOM   3485  N1   A   A 172     106.184  37.532   2.410  1.00 39.07      A16S
ATOM   3486  C6   A   A 172     105.342  36.696   1.771  1.00 39.07      A16S
ATOM   3487  N6   A   A 172     105.822  35.924   0.803  1.00 39.07      A16S
ATOM   3488  C5   A   A 172     104.008  36.687   2.169  1.00 39.07      A16S
ATOM   3489  N7   A   A 172     102.913  35.975   1.720  1.00 39.07      A16S
ATOM   3490  C8   A   A 172     101.929  36.404   2.468  1.00 39.07      A16S
ATOM   3491  C2*  A   A 172     100.647  39.176   3.601  1.00 48.02      A16S
ATOM   3492  O2*  A   A 172     100.427  40.238   4.496  1.00 48.02      A16S
ATOM   3493  C3*  A   A 172      99.342  38.466   3.306  1.00 48.02      A16S
ATOM   3494  O3*  A   A 172      98.279  39.397   3.203  1.00 48.02      A16S
ATOM   3495  P    U   A 173      97.841  39.950   1.759  1.00 50.69      A16S
ATOM   3496  O1P  U   A 173      98.210  38.951   0.715  1.00 59.29      A16S
ATOM   3497  O2P  U   A 173      96.425  40.414   1.864  1.00 59.29      A16S
ATOM   3498  O5*  U   A 173      98.805  41.198   1.516  1.00 50.69      A16S
ATOM   3499  C5*  U   A 173      98.653  42.418   2.263  1.00 50.69      A16S
ATOM   3500  C4*  U   A 173      99.590  43.488   1.742  1.00 50.69      A16S
ATOM   3501  O4*  U   A 173      99.396  44.676   2.549  1.00 50.69      A16S
ATOM   3502  C1*  U   A 173     100.612  45.039   3.159  1.00 50.69      A16S
ATOM   3503  N1   U   A 173     100.318  45.641   4.466  1.00 59.29      A16S
ATOM   3504  C6   U   A 173      99.178  45.329   5.161  1.00 59.29      A16S
ATOM   3505  C2   U   A 173     101.223  46.554   4.970  1.00 59.29      A16S
ATOM   3506  O2   U   A 173     102.266  46.840   4.404  1.00 59.29      A16S
ATOM   3507  N3   U   A 173     100.870  47.121   6.167  1.00 59.29      A16S
ATOM   3508  C4   U   A 173      99.739  46.863   6.899  1.00 59.29      A16S
ATOM   3509  O4   U   A 173      99.561  47.460   7.954  1.00 59.29      A16S
ATOM   3510  C5   U   A 173      98.866  45.894   6.327  1.00 59.29      A16S
ATOM   3511  C2*  U   A 173     101.477  43.778   3.161  1.00 50.69      A16S
ATOM   3512  O2*  U   A 173     102.854  44.077   3.264  1.00 50.69      A16S
ATOM   3513  C3*  U   A 173     101.081  43.156   1.824  1.00 50.69      A16S
ATOM   3514  O3*  U   A 173     101.791  43.860   0.786  1.00 50.69      A16S
ATOM   3515  P    C   A 174     101.860  43.275  -0.714  1.00 41.91      A16S
ATOM   3516  O1P  C   A 174     102.401  44.368  -1.563  1.00 63.66      A16S
ATOM   3517  O2P  C   A 174     100.571  42.650  -1.085  1.00 63.66      A16S
ATOM   3518  O5*  C   A 174     102.969  42.145  -0.615  1.00 41.91      A16S
ATOM   3519  C5*  C   A 174     104.371  42.486  -0.551  1.00 41.91      A16S
ATOM   3520  C4*  C   A 174     105.172  41.504  -1.367  1.00 41.91      A16S
ATOM   3521  O4*  C   A 174     105.176  40.225  -0.683  1.00 41.91      A16S
ATOM   3522  C1*  C   A 174     104.985  39.178  -1.617  1.00 41.91      A16S
ATOM   3523  N1   C   A 174     103.702  38.514  -1.303  1.00 63.66      A16S
ATOM   3524  C6   C   A 174     102.800  39.103  -0.464  1.00 63.66      A16S
ATOM   3525  C2   C   A 174     103.415  37.276  -1.882  1.00 63.66      A16S
ATOM   3526  O2   C   A 174     104.247  36.756  -2.627  1.00 63.66      A16S
ATOM   3527  N3   C   A 174     102.235  36.679  -1.614  1.00 63.66      A16S
ATOM   3528  C4   C   A 174     101.360  37.271  -0.801  1.00 63.66      A16S
ATOM   3529  N4   C   A 174     100.207  36.655  -0.566  1.00 63.66      A16S
ATOM   3530  C5   C   A 174     101.629  38.524  -0.190  1.00 63.66      A16S
ATOM   3531  C2*  C   A 174     105.029  39.803  -3.016  1.00 41.91      A16S
ATOM   3532  O2*  C   A 174     106.360  39.778  -3.485  1.00 41.91      A16S
ATOM   3533  C3*  C   A 174     104.571  41.225  -2.737  1.00 41.91      A16S
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ATOM   3534  O3*  C   A 174     105.045  42.152  -3.703  1.00 41.91      A16S
ATOM   3535  P    C   A 175     104.037  42.738  -4.813  1.00 56.71      A16S
ATOM   3536  O1P  C   A 175     104.726  43.887  -5.460  1.00 63.74      A16S
ATOM   3537  O2P  C   A 175     102.687  42.937  -4.222  1.00 63.74      A16S
ATOM   3538  O5*  C   A 175     103.931  41.554  -5.869  1.00 56.71      A16S
ATOM   3539  C5*  C   A 175     105.095  41.090  -6.569  1.00 56.71      A16S
ATOM   3540  C4*  C   A 175     104.758  39.869  -7.390  1.00 56.71      A16S
ATOM   3541  O4*  C   A 175     104.529  38.735  -6.510  1.00 56.71      A16S
ATOM   3542  C1*  C   A 175     103.477  37.932  -7.025  1.00 56.71      A16S
ATOM   3543  N1   C   A 175     102.357  37.948  -6.061  1.00 63.74      A16S
ATOM   3544  C6   C   A 175     102.408  38.726  -4.937  1.00 63.74      A16S
ATOM   3545  C2   C   A 175     101.225  37.176  -6.327  1.00 63.74      A16S
ATOM   3546  O2   C   A 175     101.222  36.440  -7.320  1.00 63.74      A16S
ATOM   3547  N3   C   A 175     100.164  37.248  -5.496  1.00 63.74      A16S
ATOM   3548  C4   C   A 175     100.211  38.043  -4.428  1.00 63.74      A16S
ATOM   3549  N4   C   A 175      99.128  38.126  -3.665  1.00 63.74      A16S
ATOM   3550  C5   C   A 175     101.368  38.801  -4.103  1.00 63.74      A16S
ATOM   3551  C2*  C   A 175     103.071  38.522  -8.377  1.00 56.71      A16S
ATOM   3552  O2*  C   A 175     103.785  37.874  -9.406  1.00 56.71      A16S
ATOM   3553  C3*  C   A 175     103.492  39.977  -8.224  1.00 56.71      A16S
ATOM   3554  O3*  C   A 175     103.706  40.617  -9.479  1.00 56.71      A16S
ATOM   3555  P    C   A 176     102.482  41.382 -10.193  1.00 53.70      A16S
ATOM   3556  O1P  C   A 176     103.024  42.123 -11.360  1.00 57.45      A16S
ATOM   3557  O2P  C   A 176     101.733  42.113  -9.143  1.00 57.45      A16S
ATOM   3558  O5*  C   A 176     101.532  40.220 -10.737  1.00 53.70      A16S
ATOM   3559  C5*  C   A 176     101.993  39.316 -11.756  1.00 53.70      A16S
ATOM   3560  C4*  C   A 176     100.996  38.205 -11.976  1.00 53.70      A16S
ATOM   3561  O4*  C   A 176     100.810  37.467 -10.744  1.00 53.70      A16S
ATOM   3562  C1*  C   A 176      99.471  37.012 -10.655  1.00 53.70      A16S
ATOM   3563  N1   C   A 176      98.856  37.595  -9.445  1.00 57.45      A16S
ATOM   3564  C6   C   A 176      99.510  38.538  -8.707  1.00 57.45      A16S
ATOM   3565  C2   C   A 176      97.584  37.162  -9.060  1.00 57.45      A16S
ATOM   3566  O2   C   A 176      97.012  36.305  -9.741  1.00 57.45      A16S
ATOM   3567  N3   C   A 176      97.013  37.683  -7.955  1.00 57.45      A16S
ATOM   3568  C4   C   A 176      97.668  38.587  -7.234  1.00 57.45      A16S
ATOM   3569  N4   C   A 176      97.082  39.050  -6.135  1.00 57.45      A16S
ATOM   3570  C5   C   A 176      98.960  39.051  -7.603  1.00 57.45      A16S
ATOM   3571  C2*  C   A 176      98.759  37.422 -11.943  1.00 53.70      A16S
ATOM   3572  O2*  C   A 176      98.814  36.347 -12.862  1.00 53.70      A16S
ATOM   3573  C3*  C   A 176      99.594  38.616 -12.386  1.00 53.70      A16S
ATOM   3574  O3*  C   A 176      99.508  38.822 -13.783  1.00 53.70      A16S
ATOM   3575  P    C   A 177      98.431  39.854 -14.365  1.00 59.70      A16S
ATOM   3576  O1P  C   A 177      98.869  40.136 -15.760  1.00 58.51      A16S
ATOM   3577  O2P  C   A 177      98.241  40.978 -13.409  1.00 58.51      A16S
ATOM   3578  O5*  C   A 177      97.096  38.998 -14.406  1.00 59.70      A16S
ATOM   3579  C5*  C   A 177      97.015  37.850 -15.252  1.00 59.70      A16S
ATOM   3580  C4*  C   A 177      95.736  37.106 -15.001  1.00 59.70      A16S
ATOM   3581  O4*  C   A 177      95.728  36.626 -13.634  1.00 59.70      A16S
ATOM   3582  C1*  C   A 177      94.404  36.630 -13.137  1.00 59.70      A16S
ATOM   3583  N1   C   A 177      94.348  37.496 -11.949  1.00 58.51      A16S
ATOM   3584  C6   C   A 177      95.451  38.178 -11.520  1.00 58.51      A16S
ATOM   3585  C2   C   A 177      93.131  37.625 -11.268  1.00 58.51      A16S
ATOM   3586  O2   C   A 177      92.144  36.982 -11.668  1.00 58.51      A16S
ATOM   3587  N3   C   A 177      93.058  38.444 -10.198  1.00 58.51      A16S
ATOM   3588  C4   C   A 177      94.138  39.116  -9.800  1.00 58.51      A16S
ATOM   3589  N4   C   A 177      94.014  39.924  -8.752  1.00 58.51      A16S
ATOM   3590  C5   C   A 177      95.391  38.991 -10.462  1.00 58.51      A16S
ATOM   3591  C2*  C   A 177      93.489  37.125 -14.259  1.00 59.70      A16S
ATOM   3592  O2*  C   A 177      92.951  36.008 -14.932  1.00 59.70      A16S
ATOM   3593  C3*  C   A 177      94.458  37.915 -15.127  1.00 59.70      A16S
ATOM   3594  O3*  C   A 177      94.019  38.020 -16.480  1.00 59.70      A16S
ATOM   3595  P    C   A 178      93.126  39.285 -16.928  1.00 65.78      A16S
ATOM   3596  O1P  C   A 178      92.875  39.104 -18.382  1.00 69.03      A16S
ATOM   3597  O2P  C   A 178      93.743  40.555 -16.436  1.00 69.03      A16S
ATOM   3598  O5*  C   A 178      91.753  39.086 -16.142  1.00 65.78      A16S
ATOM   3599  C5*  C   A 178      90.883  38.003 -16.474  1.00 65.78      A16S
ATOM   3600  C4*  C   A 178      89.620  38.060 -15.656  1.00 65.78      A16S
ATOM   3601  O4*  C   A 178      89.886  37.716 -14.269  1.00 65.78      A16S
ATOM   3602  C1*  C   A 178      88.917  38.346 -13.441  1.00 65.78      A16S
ATOM   3603  N1   C   A 178      89.578  39.209 -12.444  1.00 69.03      A16S
ATOM   3604  C6   C   A 178      90.810  39.750 -12.670  1.00 69.03      A16S
ATOM   3605  C2   C   A 178      88.901  39.484 -11.255  1.00 69.03      A16S
ATOM   3606  O2   C   A 178      87.794  38.967 -11.066  1.00 69.03      A16S
ATOM   3607  N3   C   A 178      89.465  40.301 -10.342  1.00 69.03      A16S
ATOM   3608  C4   C   A 178      90.663  40.827 -10.576  1.00 69.03      A16S
ATOM   3609  N4   C   A 178      91.183  41.626  -9.652  1.00 69.03      A16S
ATOM   3610  C5   C   A 178      91.382  40.558 -11.772  1.00 69.03      A16S
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ATOM   3611  C2* C   A 178      88.012  39.184 -14.340  1.00 65.78      A16S
ATOM   3612  O2* C   A 178      86.834  38.455 -14.620  1.00 65.78      A16S
ATOM   3613  C3* C   A 178      88.897  39.392 -15.564  1.00 65.78      A16S
ATOM   3614  O3* C   A 178      88.139  39.723 -16.718  1.00 65.78      A16S
ATOM   3615  P    A   A 179      87.724  41.264 -16.979  1.00 56.04      A16S
ATOM   3616  O1P A   A 179      86.780  41.280 -18.127  1.00 73.25      A16S
ATOM   3617  O2P A   A 179      88.943  42.126 -17.019  1.00 73.25      A16S
ATOM   3618  O5* A   A 179      86.906  41.674 -15.675  1.00 56.04      A16S
ATOM   3619  C5* A   A 179      85.673  41.032 -15.344  1.00 56.04      A16S
ATOM   3620  C4* A   A 179      85.094  41.640 -14.096  1.00 56.04      A16S
ATOM   3621  O4* A   A 179      85.974  41.422 -12.965  1.00 56.04      A16S
ATOM   3622  C1* A   A 179      85.787  42.464 -12.022  1.00 56.04      A16S
ATOM   3623  N9   A   A 179      87.086  42.983 -11.589  1.00 73.25      A16S
ATOM   3624  C4   A   A 179      87.277  43.901 -10.585  1.00 73.25      A16S
ATOM   3625  N3   A   A 179      86.338  44.473  -9.819  1.00 73.25      A16S
ATOM   3626  C2   A   A 179      86.888  45.326  -8.966  1.00 73.25      A16S
ATOM   3627  N1   A   A 179      88.168  45.650  -8.804  1.00 73.25      A16S
ATOM   3628  C6   A   A 179      89.087  45.058  -9.591  1.00 73.25      A16S
ATOM   3629  N6   A   A 179      90.369  45.389  -9.431  1.00 73.25      A16S
ATOM   3630  C5   A   A 179      88.634  44.128 -10.533  1.00 73.25      A16S
ATOM   3631  N7   A   A 179      89.297  43.357 -11.474  1.00 73.25      A16S
ATOM   3632  C8   A   A 179      88.336  42.695 -12.070  1.00 73.25      A16S
ATOM   3633  C2* A   A 179      84.881  43.522 -12.655  1.00 56.04      A16S
ATOM   3634  O2* A   A 179      83.587  43.410 -12.105  1.00 56.04      A16S
ATOM   3635  C3* A   A 179      84.925  43.145 -14.131  1.00 56.04      A16S
ATOM   3636  O3* A   A 179      83.732  43.499 -14.798  1.00 56.04      A16S
ATOM   3637  P    U   A 180      83.618  44.936 -15.491  1.00 60.44      A16S
ATOM   3638  O1P U   A 180      82.383  44.949 -16.314  1.00 72.52      A16S
ATOM   3639  O2P U   A 180      84.918  45.262 -16.124  1.00 72.52      A16S
ATOM   3640  O5* U   A 180      83.413  45.917 -14.263  1.00 60.44      A16S
ATOM   3641  C5* U   A 180      82.174  45.944 -13.556  1.00 60.44      A16S
ATOM   3642  C4* U   A 180      82.237  46.975 -12.472  1.00 60.44      A16S
ATOM   3643  O4* U   A 180      83.224  46.574 -11.487  1.00 60.44      A16S
ATOM   3644  C1* U   A 180      83.946  47.710 -11.040  1.00 60.44      A16S
ATOM   3645  N1   U   A 180      85.358  47.542 -11.417  1.00 72.52      A16S
ATOM   3646  C6   U   A 180      85.720  46.877 -12.566  1.00 72.52      A16S
ATOM   3647  C2   U   A 180      86.309  48.092 -10.590  1.00 72.52      A16S
ATOM   3648  O2   U   A 180      86.028  48.671  -9.549  1.00 72.52      A16S
ATOM   3649  N3   U   A 180      87.603  47.944 -11.022  1.00 72.52      A16S
ATOM   3650  C4   U   A 180      88.032  47.311 -12.166  1.00 72.52      A16S
ATOM   3651  O4   U   A 180      89.231  47.307 -12.446  1.00 72.52      A16S
ATOM   3652  C5   U   A 180      86.988  46.749 -12.957  1.00 72.52      A16S
ATOM   3653  C2* U   A 180      83.344  48.936 -11.725  1.00 60.44      A16S
ATOM   3654  O2* U   A 180      82.376  49.575 -10.919  1.00 60.44      A16S
ATOM   3655  C3* U   A 180      82.732  48.315 -12.964  1.00 60.44      A16S
ATOM   3656  O3* U   A 180      81.720  49.116 -13.516  1.00 60.44      A16S
ATOM   3657  P    G   A 181      82.129  50.235 -14.578  1.00 62.88      A16S
ATOM   3658  O1P G   A 181      81.123  51.324 -14.496  1.00 55.88      A16S
ATOM   3659  O2P G   A 181      82.405  49.584 -15.880  1.00 55.88      A16S
ATOM   3660  O5* G   A 181      83.505  50.770 -13.992  1.00 62.88      A16S
ATOM   3661  C5* G   A 181      83.524  51.762 -12.952  1.00 62.88      A16S
ATOM   3662  C4* G   A 181      84.351  52.929 -13.398  1.00 62.88      A16S
ATOM   3663  O4* G   A 181      85.765  52.613 -13.248  1.00 62.88      A16S
ATOM   3664  C1* G   A 181      86.438  52.792 -14.474  1.00 62.88      A16S
ATOM   3665  N9   G   A 181      87.448  51.738 -14.596  1.00 55.88      A16S
ATOM   3666  C4   G   A 181      88.707  51.719 -14.021  1.00 55.88      A16S
ATOM   3667  N3   G   A 181      89.218  52.644 -13.177  1.00 55.88      A16S
ATOM   3668  C2   G   A 181      90.460  52.354 -12.818  1.00 55.88      A16S
ATOM   3669  N2   G   A 181      91.106  53.146 -11.957  1.00 55.88      A16S
ATOM   3670  N1   G   A 181      91.156  51.258 -13.271  1.00 55.88      A16S
ATOM   3671  C6   G   A 181      90.650  50.294 -14.136  1.00 55.88      A16S
ATOM   3672  O6   G   A 181      91.359  49.342 -14.481  1.00 55.88      A16S
ATOM   3673  C5   G   A 181      89.314  50.577 -14.509  1.00 55.88      A16S
ATOM   3674  N7   G   A 181      88.449  49.870 -15.327  1.00 55.88      A16S
ATOM   3675  C8   G   A 181      87.356  50.588 -15.342  1.00 55.88      A16S
ATOM   3676  C2* G   A 181      85.378  52.755 -15.576  1.00 62.88      A16S
ATOM   3677  O2* G   A 181      85.754  53.456 -16.740  1.00 62.88      A16S
ATOM   3678  C3* G   A 181      84.124  53.260 -14.861  1.00 62.88      A16S
ATOM   3679  O3* G   A 181      83.457  54.511 -15.109  1.00 62.88      A16S
ATOM   3680  P    U   A 182      84.253  55.902 -15.043  1.00 68.06      A16S
ATOM   3681  O1P U   A 182      84.106  56.579 -16.363  1.00 74.76      A16S
ATOM   3682  O2P U   A 182      85.606  55.634 -14.497  1.00 74.76      A16S
ATOM   3683  O5* U   A 182      83.443  56.746 -13.958  1.00 68.06      A16S
ATOM   3684  C5* U   A 182      83.590  56.453 -12.550  1.00 68.06      A16S
ATOM   3685  C4* U   A 182      83.889  57.714 -11.759  1.00 68.06      A16S
ATOM   3686  O4* U   A 182      84.729  57.321 -10.644  1.00 68.06      A16S
ATOM   3687  C1* U   A 182      85.756  58.276 -10.446  1.00 68.06      A16S
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ATOM   3688  N1  U   A 182      87.054  57.607 -10.644  1.00 74.76      A16S
ATOM   3689  C6  U   A 182      87.211  56.583 -11.560  1.00 74.76      A16S
ATOM   3690  C2  U   A 182      88.120  58.042  -9.879  1.00 74.76      A16S
ATOM   3691  O2  U   A 182      88.025  58.949  -9.065  1.00 74.76      A16S
ATOM   3692  N3  U   A 182      89.303  57.382 -10.108  1.00 74.76      A16S
ATOM   3693  C4  U   A 182      89.527  56.362 -11.010  1.00 74.76      A16S
ATOM   3694  O4  U   A 182      90.666  55.910 -11.140  1.00 74.76      A16S
ATOM   3695  C5  U   A 182      88.377  55.967 -11.762  1.00 74.76      A16S
ATOM   3696  C2* U   A 182      85.518  59.439 -11.407  1.00 68.06      A16S
ATOM   3697  O2* U   A 182      84.847  60.488 -10.749  1.00 68.06      A16S
ATOM   3698  C3* U   A 182      84.692  58.775 -12.501  1.00 68.06      A16S
ATOM   3699  O3* U   A 182      83.823  59.705 -13.142  1.00 68.06      A16S
ATOM   3700  P   G   A 183      84.393  60.672 -14.293  1.00 66.71      A16S
ATOM   3701  O1P G   A 183      83.655  61.945 -14.170  1.00 52.03      A16S
ATOM   3702  O2P G   A 183      84.381  59.936 -15.598  1.00 52.03      A16S
ATOM   3703  O5* G   A 183      85.878  60.986 -13.802  1.00 66.71      A16S
ATOM   3704  C5* G   A 183      86.975  61.041 -14.724  1.00 66.71      A16S
ATOM   3705  C4* G   A 183      88.267  60.701 -14.020  1.00 66.71      A16S
ATOM   3706  O4* G   A 183      88.151  59.399 -13.391  1.00 66.71      A16S
ATOM   3707  C1* G   A 183      89.335  58.650 -13.608  1.00 66.71      A16S
ATOM   3708  N9  G   A 183      88.991  57.545 -14.502  1.00 52.03      A16S
ATOM   3709  C4  G   A 183      89.780  56.466 -14.841  1.00 52.03      A16S
ATOM   3710  N3  G   A 183      91.029  56.225 -14.401  1.00 52.03      A16S
ATOM   3711  C2  G   A 183      91.540  55.138 -14.945  1.00 52.03      A16S
ATOM   3712  N2  G   A 183      92.794  54.786 -14.664  1.00 52.03      A16S
ATOM   3713  N1  G   A 183      90.868  54.326 -15.818  1.00 52.03      A16S
ATOM   3714  C6  G   A 183      89.573  54.544 -16.272  1.00 52.03      A16S
ATOM   3715  O6  G   A 183      89.044  53.743 -17.056  1.00 52.03      A16S
ATOM   3716  C5  G   A 183      89.026  55.727 -15.729  1.00 52.03      A16S
ATOM   3717  N7  G   A 183      87.791  56.323 -15.945  1.00 52.03      A16S
ATOM   3718  C8  G   A 183      87.811  57.390 -15.195  1.00 52.03      A16S
ATOM   3719  C2* G   A 183      90.355  59.597 -14.242  1.00 66.71      A16S
ATOM   3720  O2* G   A 183      91.126  60.227 -13.242  1.00 66.71      A16S
ATOM   3721  C3* G   A 183      89.446  60.576 -14.962  1.00 66.71      A16S
ATOM   3722  O3* G   A 183      90.053  61.832 -15.189  1.00 66.71      A16S
ATOM   3723  P   G   A 184      90.557  62.206 -16.663  1.00 58.99      A16S
ATOM   3724  O1P G   A 184      90.933  63.639 -16.617  1.00 48.06      A16S
ATOM   3725  O2P G   A 184      89.540  61.749 -17.643  1.00 48.06      A16S
ATOM   3726  O5* G   A 184      91.878  61.330 -16.851  1.00 58.99      A16S
ATOM   3727  C5* G   A 184      93.035  61.553 -16.019  1.00 58.99      A16S
ATOM   3728  C4* G   A 184      94.024  60.423 -16.171  1.00 58.99      A16S
ATOM   3729  O4* G   A 184      93.397  59.185 -15.749  1.00 58.99      A16S
ATOM   3730  C1* G   A 184      93.875  58.107 -16.545  1.00 58.99      A16S
ATOM   3731  N9  G   A 184      92.754  57.516 -17.278  1.00 48.06      A16S
ATOM   3732  C4  G   A 184      92.741  56.295 -17.918  1.00 48.06      A16S
ATOM   3733  N3  G   A 184      93.754  55.413 -17.964  1.00 48.06      A16S
ATOM   3734  C2  G   A 184      93.442  54.343 -18.667  1.00 48.06      A16S
ATOM   3735  N2  G   A 184      94.333  53.365 -18.824  1.00 48.06      A16S
ATOM   3736  N1  G   A 184      92.236  54.153 -19.269  1.00 48.06      A16S
ATOM   3737  C6  G   A 184      91.176  55.044 -19.230  1.00 48.06      A16S
ATOM   3738  O6  G   A 184      90.114  54.769 -19.804  1.00 48.06      A16S
ATOM   3739  C5  G   A 184      91.497  56.196 -18.488  1.00 48.06      A16S
ATOM   3740  N7  G   A 184      90.734  57.317 -18.207  1.00 48.06      A16S
ATOM   3741  C8  G   A 184      91.516  58.069 -17.485  1.00 48.06      A16S
ATOM   3742  C2* G   A 184      94.927  58.670 -17.497  1.00 58.99      A16S
ATOM   3743  O2* G   A 184      96.207  58.494 -16.924  1.00 58.99      A16S
ATOM   3744  C3* G   A 184      94.514  60.134 -17.582  1.00 58.99      A16S
ATOM   3745  O3* G   A 184      95.605  60.957 -17.982  1.00 58.99      A16S
ATOM   3746  P   A   A 185      95.943  61.117 -19.552  1.00 49.28      A16S
ATOM   3747  O1P A   A 185      97.044  62.104 -19.675  1.00 47.31      A16S
ATOM   3748  O2P A   A 185      94.667  61.338 -20.299  1.00 47.31      A16S
ATOM   3749  O5* A   A 185      96.510  59.693 -19.993  1.00 49.28      A16S
ATOM   3750  C5* A   A 185      97.750  59.207 -19.469  1.00 49.28      A16S
ATOM   3751  C4* A   A 185      98.113  57.907 -20.126  1.00 49.28      A16S
ATOM   3752  O4* A   A 185      97.124  56.908 -19.787  1.00 49.28      A16S
ATOM   3753  C1* A   A 185      96.931  56.032 -20.885  1.00 49.28      A16S
ATOM   3754  N9  A   A 185      95.531  56.107 -21.292  1.00 47.31      A16S
ATOM   3755  C4  A   A 185      94.885  55.215 -22.108  1.00 47.31      A16S
ATOM   3756  N3  A   A 185      95.410  54.136 -22.705  1.00 47.31      A16S
ATOM   3757  C2  A   A 185      94.490  53.504 -23.412  1.00 47.31      A16S
ATOM   3758  N1  A   A 185      93.200  53.796 -23.566  1.00 47.31      A16S
ATOM   3759  C6  A   A 185      92.703  54.879 -22.940  1.00 47.31      A16S
ATOM   3760  N6  A   A 185      91.407  55.151 -23.065  1.00 47.31      A16S
ATOM   3761  C5  A   A 185      93.582  55.647 -22.181  1.00 47.31      A16S
ATOM   3762  N7  A   A 185      93.407  56.808 -21.446  1.00 47.31      A16S
ATOM   3763  C8  A   A 185      94.592  57.040 -20.942  1.00 47.31      A16S
ATOM   3764  C2* A   A 185      97.876  56.466 -21.998  1.00 49.28      A16S
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ATOM   3765  O2*  A   A 185      99.065  55.710 -21.928  1.00 49.28      A16S
ATOM   3766  C3*  A   A 185      98.103  57.924 -21.641  1.00 49.28      A16S
ATOM   3767  O3*  A   A 185      99.306  58.408 -22.182  1.00 49.28      A16S
ATOM   3768  P    C   A 186      99.264  59.212 -23.559  1.00 41.96      A16S
ATOM   3769  O1P  C   A 186     100.619  59.770 -23.748  1.00 41.15      A16S
ATOM   3770  O2P  C   A 186      98.089  60.117 -23.500  1.00 41.15      A16S
ATOM   3771  O5*  C   A 186      98.969  58.103 -24.659  1.00 41.96      A16S
ATOM   3772  C5*  C   A 186      99.963  57.142 -24.993  1.00 41.96      A16S
ATOM   3773  C4*  C   A 186      99.449  56.200 -26.047  1.00 41.96      A16S
ATOM   3774  O4*  C   A 186      98.368  55.402 -25.503  1.00 41.96      A16S
ATOM   3775  C1*  C   A 186      97.420  55.123 -26.521  1.00 41.96      A16S
ATOM   3776  N1   C   A 186      96.129  55.709 -26.128  1.00 41.15      A16S
ATOM   3777  C6   C   A 186      96.084  56.830 -25.352  1.00 41.15      A16S
ATOM   3778  C2   C   A 186      94.941  55.107 -26.565  1.00 41.15      A16S
ATOM   3779  O2   C   A 186      95.001  54.079 -27.254  1.00 41.15      A16S
ATOM   3780  N3   C   A 186      93.758  55.659 -26.221  1.00 41.15      A16S
ATOM   3781  C4   C   A 186      93.732  56.757 -25.469  1.00 41.15      A16S
ATOM   3782  N4   C   A 186      92.551  57.278 -25.161  1.00 41.15      A16S
ATOM   3783  C5   C   A 186      94.919  57.377 -25.000  1.00 41.15      A16S
ATOM   3784  C2*  C   A 186      97.957  55.724 -27.818  1.00 41.96      A16S
ATOM   3785  O2*  C   A 186      98.712  54.736 -28.494  1.00 41.96      A16S
ATOM   3786  C3*  C   A 186      98.848  56.838 -27.286  1.00 41.96      A16S
ATOM   3787  O3*  C   A 186      99.831  57.244 -28.226  1.00 41.96      A16S
ATOM   3788  P    C   A 187      99.498  58.436 -29.249  1.00 47.13      A16S
ATOM   3789  O1P  C   A 187     100.805  58.824 -29.821  1.00 43.09      A16S
ATOM   3790  O2P  C   A 187      98.666  59.460 -28.568  1.00 43.09      A16S
ATOM   3791  O5*  C   A 187      98.602  57.736 -30.365  1.00 47.13      A16S
ATOM   3792  C5*  C   A 187      99.163  56.712 -31.193  1.00 47.13      A16S
ATOM   3793  C4*  C   A 187      98.109  56.092 -32.071  1.00 47.13      A16S
ATOM   3794  O4*  C   A 187      97.138  55.377 -31.263  1.00 47.13      A16S
ATOM   3795  C1*  C   A 187      95.867  55.433 -31.888  1.00 47.13      A16S
ATOM   3796  N1   C   A 187      94.914  56.061 -30.963  1.00 43.09      A16S
ATOM   3797  C6   C   A 187      95.344  56.863 -29.946  1.00 43.09      A16S
ATOM   3798  C2   C   A 187      93.549  55.821 -31.141  1.00 43.09      A16S
ATOM   3799  O2   C   A 187      93.186  55.096 -32.083  1.00 43.09      A16S
ATOM   3800  N3   C   A 187      92.658  56.384 -30.286  1.00 43.09      A16S
ATOM   3801  C4   C   A 187      93.091  57.161 -29.293  1.00 43.09      A16S
ATOM   3802  N4   C   A 187      92.188  57.690 -28.468  1.00 43.09      A16S
ATOM   3803  C5   C   A 187      94.475  57.428 -29.096  1.00 43.09      A16S
ATOM   3804  C2*  C   A 187      96.022  56.225 -33.184  1.00 47.13      A16S
ATOM   3805  O2*  C   A 187      96.222  55.325 -34.257  1.00 47.13      A16S
ATOM   3806  C3*  C   A 187      97.267  57.053 -32.885  1.00 47.13      A16S
ATOM   3807  O3*  C   A 187      97.932  57.513 -34.052  1.00 47.13      A16S
ATOM   3808  P    C   A 188      97.680  59.015 -34.556  1.00 58.37      A16S
ATOM   3809  O1P  C   A 188      98.608  59.216 -35.686  1.00 51.69      A16S
ATOM   3810  O2P  C   A 188      97.717  59.949 -33.413  1.00 51.69      A16S
ATOM   3811  O5*  C   A 188      96.183  58.976 -35.088  1.00 58.37      A16S
ATOM   3812  C5*  C   A 188      95.827  58.124 -36.188  1.00 58.37      A16S
ATOM   3813  C4*  C   A 188      94.346  58.192 -36.443  1.00 58.37      A16S
ATOM   3814  O4*  C   A 188      93.642  57.538 -35.358  1.00 58.37      A16S
ATOM   3815  C1*  C   A 188      92.422  58.219 -35.104  1.00 58.37      A16S
ATOM   3816  N1   C   A 188      92.459  58.793 -33.746  1.00 51.69      A16S
ATOM   3817  C6   C   A 188      93.640  58.934 -33.069  1.00 51.69      A16S
ATOM   3818  C2   C   A 188      91.251  59.219 -33.161  1.00 51.69      A16S
ATOM   3819  O2   C   A 188      90.182  59.051 -33.787  1.00 51.69      A16S
ATOM   3820  N3   C   A 188      91.285  59.797 -31.933  1.00 51.69      A16S
ATOM   3821  C4   C   A 188      92.451  59.942 -31.295  1.00 51.69      A16S
ATOM   3822  N4   C   A 188      92.445  60.528 -30.102  1.00 51.69      A16S
ATOM   3823  C5   C   A 188      93.679  59.494 -31.855  1.00 51.69      A16S
ATOM   3824  C2*  C   A 188      92.297  59.333 -36.137  1.00 58.37      A16S
ATOM   3825  O2*  C   A 188      91.557  58.849 -37.241  1.00 58.37      A16S
ATOM   3826  C3*  C   A 188      93.755  59.590 -36.474  1.00 58.37      A16S
ATOM   3827  O3*  C   A 188      93.917  60.246 -37.718  1.00 58.37      A16S
ATOM   3828  P    G   A 189      93.942  61.855 -37.758  1.00 68.40      A16S
ATOM   3829  O1P  G   A 189      94.304  62.229 -39.149  1.00 51.97      A16S
ATOM   3830  O2P  G   A 189      94.742  62.374 -36.627  1.00 51.97      A16S
ATOM   3831  O5*  G   A 189      92.433  62.274 -37.479  1.00 68.40      A16S
ATOM   3832  C5*  G   A 189      91.415  61.983 -38.433  1.00 68.40      A16S
ATOM   3833  C4*  G   A 189      90.083  62.432 -37.918  1.00 68.40      A16S
ATOM   3834  O4*  G   A 189      89.783  61.707 -36.705  1.00 68.40      A16S
ATOM   3835  C1*  G   A 189      89.011  62.523 -35.842  1.00 68.40      A16S
ATOM   3836  N9   G   A 189      89.698  62.652 -34.560  1.00 51.97      A16S
ATOM   3837  C4   G   A 189      89.133  63.090 -33.390  1.00 51.97      A16S
ATOM   3838  N3   G   A 189      87.839  63.437 -33.219  1.00 51.97      A16S
ATOM   3839  C2   G   A 189      87.592  63.820 -31.980  1.00 51.97      A16S
ATOM   3840  N2   G   A 189      86.348  64.174 -31.627  1.00 51.97      A16S
ATOM   3841  N1   G   A 189      88.544  63.876 -30.995  1.00 51.97      A16S
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ATOM   3842  C6  G   A 189      89.884  63.533 -31.153  1.00 51.97      A16S
ATOM   3843  O6  G   A 189      90.669  63.642 -30.200  1.00 51.97      A16S
ATOM   3844  C5  G   A 189      90.156  63.098 -32.470  1.00 51.97      A16S
ATOM   3845  N7  G   A 189      91.339  62.653 -33.042  1.00 51.97      A16S
ATOM   3846  C8  G   A 189      91.020  62.395 -34.281  1.00 51.97      A16S
ATOM   3847  C2* G   A 189      88.818  63.874 -36.531  1.00 68.40      A16S
ATOM   3848  O2* G   A 189      87.556  63.888 -37.166  1.00 68.40      A16S
ATOM   3849  C3* G   A 189      89.983  63.888 -37.510  1.00 68.40      A16S
ATOM   3850  O3* G   A 189      89.744  64.727 -38.624  1.00 68.40      A16S
ATOM   3851  P   C   A 190      90.408  66.191 -38.675  1.00 63.56      A16S
ATOM   3852  O1P C   A 190      90.310  66.626 -40.092  1.00 55.45      A16S
ATOM   3853  O2P C   A 190      91.724  66.181 -38.009  1.00 55.45      A16S
ATOM   3854  O5* C   A 190      89.447  67.076 -37.770  1.00 63.56      A16S
ATOM   3855  C5* C   A 190      88.050  67.169 -38.062  1.00 63.56      A16S
ATOM   3856  C4* C   A 190      87.312  67.741 -36.881  1.00 63.56      A16S
ATOM   3857  O4* C   A 190      87.292  66.776 -35.798  1.00 63.56      A16S
ATOM   3858  C1* C   A 190      87.332  67.460 -34.555  1.00 63.56      A16S
ATOM   3859  N1  C   A 190      88.511  67.006 -33.795  1.00 55.45      A16S
ATOM   3860  C6  C   A 190      89.620  66.519 -34.431  1.00 55.45      A16S
ATOM   3861  C2  C   A 190      88.492  67.116 -32.398  1.00 55.45      A16S
ATOM   3862  O2  C   A 190      87.457  67.493 -31.839  1.00 55.45      A16S
ATOM   3863  N3  C   A 190      89.597  66.802 -31.697  1.00 55.45      A16S
ATOM   3864  C4  C   A 190      90.689  66.368 -32.330  1.00 55.45      A16S
ATOM   3865  N4  C   A 190      91.771  66.106 -31.594  1.00 55.45      A16S
ATOM   3866  C5  C   A 190      90.721  66.193 -33.743  1.00 55.45      A16S
ATOM   3867  C2* C   A 190      87.390  68.966 -34.842  1.00 63.56      A16S
ATOM   3868  O2* C   A 190      86.114  69.563 -34.704  1.00 63.56      A16S
ATOM   3869  C3* C   A 190      87.929  68.985 -36.267  1.00 63.56      A16S
ATOM   3870  O3* C   A 190      87.599  70.170 -36.976  1.00 63.56      A16S
ATOM   3871  P   C   A 190A     88.594  71.429 -36.906  1.00 64.30      A16S
ATOM   3872  O1P C   A 190A     88.205  72.375 -37.985  1.00 72.23      A16S
ATOM   3873  O2P C   A 190A     89.993  70.936 -36.835  1.00 72.23      A16S
ATOM   3874  O5* C   A 190A     88.238  72.084 -35.505  1.00 64.30      A16S
ATOM   3875  C5* C   A 190A     86.915  72.537 -35.253  1.00 64.30      A16S
ATOM   3876  C4* C   A 190A     86.787  72.995 -33.834  1.00 64.30      A16S
ATOM   3877  O4* C   A 190A     86.895  71.860 -32.948  1.00 64.30      A16S
ATOM   3878  C1* C   A 190A     87.500  72.266 -31.735  1.00 64.30      A16S
ATOM   3879  N1  C   A 190A     88.733  71.492 -31.545  1.00 72.23      A16S
ATOM   3880  C6  C   A 190A     89.235  70.709 -32.548  1.00 72.23      A16S
ATOM   3881  C2  C   A 190A     89.396  71.575 -30.313  1.00 72.23      A16S
ATOM   3882  O2  C   A 190A     88.925  72.297 -29.424  1.00 72.23      A16S
ATOM   3883  N3  C   A 190A     90.532  70.872 -30.128  1.00 72.23      A16S
ATOM   3884  C4  C   A 190A     91.015  70.113 -31.114  1.00 72.23      A16S
ATOM   3885  N4  C   A 190A     92.140  69.442 -30.888  1.00 72.23      A16S
ATOM   3886  C5  C   A 190A     90.363  70.011 -32.377  1.00 72.23      A16S
ATOM   3887  C2* C   A 190A     87.788  73.761 -31.838  1.00 64.30      A16S
ATOM   3888  O2* C   A 190A     86.735  74.481 -31.227  1.00 64.30      A16S
ATOM   3889  C3* C   A 190A     87.854  73.953 -33.346  1.00 64.30      A16S
ATOM   3890  O3* C   A 190A     87.619  75.293 -33.755  1.00 64.30      A16S
ATOM   3891  P   C   A 190B     88.869  76.288 -33.960  1.00 68.09      A16S
ATOM   3892  O1P C   A 190B     88.376  77.552 -34.576  1.00 69.22      A16S
ATOM   3893  O2P C   A 190B     89.937  75.513 -34.638  1.00 69.22      A16S
ATOM   3894  O5* C   A 190B     89.319  76.611 -32.469  1.00 68.09      A16S
ATOM   3895  C5* C   A 190B     88.352  77.087 -31.520  1.00 68.09      A16S
ATOM   3896  C4* C   A 190B     88.974  77.237 -30.160  1.00 68.09      A16S
ATOM   3897  O4* C   A 190B     89.182  75.938 -29.546  1.00 68.09      A16S
ATOM   3898  C1* C   A 190B     90.379  75.962 -28.781  1.00 68.09      A16S
ATOM   3899  N1  C   A 190B     91.321  74.971 -29.344  1.00 69.22      A16S
ATOM   3900  C6  C   A 190B     91.292  74.648 -30.673  1.00 69.22      A16S
ATOM   3901  C2  C   A 190B     92.259  74.369 -28.495  1.00 69.22      A16S
ATOM   3902  O2  C   A 190B     92.261  74.669 -27.286  1.00 69.22      A16S
ATOM   3903  N3  C   A 190B     93.135  73.474 -29.010  1.00 69.22      A16S
ATOM   3904  C4  C   A 190B     93.094  73.171 -30.306  1.00 69.22      A16S
ATOM   3905  N4  C   A 190B     93.969  72.282 -30.768  1.00 69.22      A16S
ATOM   3906  C5  C   A 190B     92.150  73.764 -31.189  1.00 69.22      A16S
ATOM   3907  C2* C   A 190B     90.944  77.383 -28.851  1.00 68.09      A16S
ATOM   3908  O2* C   A 190B     90.525  78.142 -27.734  1.00 68.09      A16S
ATOM   3909  C3* C   A 190B     90.343  77.884 -30.155  1.00 68.09      A16S
ATOM   3910  O3* C   A 190B     90.271  79.293 -30.221  1.00 68.09      A16S
ATOM   3911  P   C   A 190C     91.595  80.124 -30.571  1.00 79.29      A16S
ATOM   3912  O1P C   A 190C     91.257  81.572 -30.623  1.00 57.21      A16S
ATOM   3913  O2P C   A 190C     92.294  79.483 -31.727  1.00 57.21      A16S
ATOM   3914  O5* C   A 190C     92.481  79.904 -29.277  1.00 79.29      A16S
ATOM   3915  C5* C   A 190C     93.882  80.005 -29.364  1.00 79.29      A16S
ATOM   3916  C4* C   A 190C     94.540  79.089 -28.376  1.00 79.29      A16S
ATOM   3917  O4* C   A 190C     94.160  77.709 -28.591  1.00 79.29      A16S
ATOM   3918  C1* C   A 190C     95.306  76.874 -28.505  1.00 79.29      A16S
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ATOM   3919  N1  C   A 190C      95.486  76.238 -29.827  1.00 57.21      A16S
ATOM   3920  C6  C   A 190C      94.639  76.540 -30.854  1.00 57.21      A16S
ATOM   3921  C2  C   A 190C      96.521  75.311 -30.020  1.00 57.21      A16S
ATOM   3922  O2  C   A 190C      97.297  75.059 -29.087  1.00 57.21      A16S
ATOM   3923  N3  C   A 190C      96.651  74.715 -31.220  1.00 57.21      A16S
ATOM   3924  C4  C   A 190C      95.806  75.010 -32.205  1.00 57.21      A16S
ATOM   3925  N4  C   A 190C      95.966  74.389 -33.373  1.00 57.21      A16S
ATOM   3926  C5  C   A 190C      94.761  75.954 -32.041  1.00 57.21      A16S
ATOM   3927  C2* C   A 190C      96.481  77.755 -28.079  1.00 79.29      A16S
ATOM   3928  O2* C   A 190C      96.645  77.725 -26.675  1.00 79.29      A16S
ATOM   3929  C3* C   A 190C      96.025  79.107 -28.593  1.00 79.29      A16S
ATOM   3930  O3* C   A 190C      96.544  80.229 -27.945  1.00 79.29      A16S
ATOM   3931  P   U   A 190D      97.707  81.048 -28.651  1.00 52.04      A16S
ATOM   3932  O1P U   A 190D      97.630  82.428 -28.119  1.00 54.06      A16S
ATOM   3933  O2P U   A 190D      97.657  80.828 -30.131  1.00 54.06      A16S
ATOM   3934  O5* U   A 190D      98.971  80.315 -28.019  1.00 52.04      A16S
ATOM   3935  C5* U   A 190D     100.153  80.082 -28.775  1.00 52.04      A16S
ATOM   3936  C4* U   A 190D     100.435  78.608 -28.848  1.00 52.04      A16S
ATOM   3937  O4* U   A 190D      99.373  77.941 -29.581  1.00 52.04      A16S
ATOM   3938  C1* U   A 190D      99.910  77.295 -30.716  1.00 52.04      A16S
ATOM   3939  N1  U   A 190D      98.916  77.341 -31.797  1.00 54.06      A16S
ATOM   3940  C6  U   A 190D      97.966  78.332 -31.844  1.00 54.06      A16S
ATOM   3941  C2  U   A 190D      98.955  76.343 -32.763  1.00 54.06      A16S
ATOM   3942  O2  U   A 190D      99.774  75.439 -32.763  1.00 54.06      A16S
ATOM   3943  N3  U   A 190D      97.987  76.439 -33.731  1.00 54.06      A16S
ATOM   3944  C4  U   A 190D      97.001  77.403 -33.830  1.00 54.06      A16S
ATOM   3945  O4  U   A 190D      96.165  77.328 -34.740  1.00 54.06      A16S
ATOM   3946  C5  U   A 190D      97.032  78.394 -32.797  1.00 54.06      A16S
ATOM   3947  C2* U   A 190D     101.231  78.002 -31.005  1.00 52.04      A16S
ATOM   3948  O2* U   A 190D     102.114  77.207 -31.757  1.00 52.04      A16S
ATOM   3949  C3* U   A 190D     101.719  78.295 -29.590  1.00 52.04      A16S
ATOM   3950  O3* U   A 190D     102.267  77.138 -28.980  1.00 52.04      A16S
ATOM   3951  P   U   A 190E     103.851  76.982 -28.844  1.00 45.35      A16S
ATOM   3952  O1P U   A 190E     104.195  77.133 -27.405  1.00 48.72      A16S
ATOM   3953  O2P U   A 190E     104.469  77.875 -29.851  1.00 48.72      A16S
ATOM   3954  O5* U   A 190E     104.112  75.493 -29.331  1.00 45.35      A16S
ATOM   3955  C5* U   A 190E     103.542  75.057 -30.563  1.00 45.35      A16S
ATOM   3956  C4* U   A 190E     104.306  73.895 -31.118  1.00 45.35      A16S
ATOM   3957  O4* U   A 190E     105.677  74.290 -31.369  1.00 45.35      A16S
ATOM   3958  C1* U   A 190E     106.549  73.379 -30.744  1.00 45.35      A16S
ATOM   3959  N1  U   A 190E     107.745  74.095 -30.290  1.00 48.72      A16S
ATOM   3960  C6  U   A 190E     107.673  75.074 -29.342  1.00 48.72      A16S
ATOM   3961  C2  U   A 190E     108.944  73.739 -30.849  1.00 48.72      A16S
ATOM   3962  O2  U   A 190E     109.044  72.892 -31.727  1.00 48.72      A16S
ATOM   3963  N3  U   A 190E     110.027  74.414 -30.360  1.00 48.72      A16S
ATOM   3964  C4  U   A 190E     110.020  75.397 -29.406  1.00 48.72      A16S
ATOM   3965  O4  U   A 190E     111.077  75.926 -29.077  1.00 48.72      A16S
ATOM   3966  C5  U   A 190E     108.739  75.719 -28.894  1.00 48.72      A16S
ATOM   3967  C2* U   A 190E     105.750  72.748 -29.613  1.00 45.35      A16S
ATOM   3968  O2* U   A 190E     106.296  71.484 -29.331  1.00 45.35      A16S
ATOM   3969  C3* U   A 190E     104.364  72.664 -30.233  1.00 45.35      A16S
ATOM   3970  O3* U   A 190E     104.311  71.526 -31.074  1.00 45.35      A16S
ATOM   3971  P   G   A 190F     103.097  70.502 -30.929  1.00 45.00      A16S
ATOM   3972  O1P G   A 190F     103.442  69.270 -31.696  1.00 55.79      A16S
ATOM   3973  O2P G   A 190F     101.865  71.257 -31.264  1.00 55.79      A16S
ATOM   3974  O5* G   A 190F     103.071  70.135 -29.378  1.00 45.00      A16S
ATOM   3975  C5* G   A 190F     101.944  69.451 -28.819  1.00 45.00      A16S
ATOM   3976  C4* G   A 190F     102.395  68.460 -27.788  1.00 45.00      A16S
ATOM   3977  O4* G   A 190F     103.426  67.637 -28.381  1.00 45.00      A16S
ATOM   3978  C1* G   A 190F     104.511  67.572 -27.499  1.00 45.00      A16S
ATOM   3979  N9  G   A 190F     105.719  67.237 -28.235  1.00 55.79      A16S
ATOM   3980  C4  G   A 190F     106.721  66.417 -27.791  1.00 55.79      A16S
ATOM   3981  N3  G   A 190F     106.789  65.840 -26.575  1.00 55.79      A16S
ATOM   3982  C2  G   A 190F     107.853  65.077 -26.449  1.00 55.79      A16S
ATOM   3983  N2  G   A 190F     108.075  64.428 -25.302  1.00 55.79      A16S
ATOM   3984  N1  G   A 190F     108.777  64.891 -27.441  1.00 55.79      A16S
ATOM   3985  C6  G   A 190F     108.720  65.470 -28.708  1.00 55.79      A16S
ATOM   3986  O6  G   A 190F     109.598  65.211 -29.554  1.00 55.79      A16S
ATOM   3987  C5  G   A 190F     107.590  66.302 -28.844  1.00 55.79      A16S
ATOM   3988  N7  G   A 190F     107.167  67.073 -29.916  1.00 55.79      A16S
ATOM   3989  C8  G   A 190F     106.059  67.618 -29.503  1.00 55.79      A16S
ATOM   3990  C2* G   A 190F     104.489  68.891 -26.752  1.00 45.00      A16S
ATOM   3991  O2* G   A 190F     105.250  68.753 -25.575  1.00 45.00      A16S
ATOM   3992  C3* G   A 190F     102.993  69.035 -26.510  1.00 45.00      A16S
ATOM   3993  O3* G   A 190F     102.676  68.157 -25.434  1.00 45.00      A16S
ATOM   3994  P   G   A 190G     101.265  68.275 -24.685  1.00 49.23      A16S
ATOM   3995  O1P G   A 190G     101.411  67.620 -23.354  1.00 44.56      A16S
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ATOM   3996  O2P G   A 190G     100.215  67.816 -25.622  1.00 44.56      A16S
ATOM   3997  O5* G   A 190G     101.065  69.828 -24.442  1.00 49.23      A16S
ATOM   3998  C5* G   A 190G     101.564  70.461 -23.261  1.00 49.23      A16S
ATOM   3999  C4* G   A 190G     100.681  71.620 -22.904  1.00 49.23      A16S
ATOM   4000  O4* G   A 190G     100.588  72.469 -24.075  1.00 49.23      A16S
ATOM   4001  C1* G   A 190G      99.269  72.966 -24.206  1.00 49.23      A16S
ATOM   4002  N9  G   A 190G      98.715  72.492 -25.471  1.00 44.56      A16S
ATOM   4003  C4  G   A 190G      97.500  72.838 -26.005  1.00 44.56      A16S
ATOM   4004  N3  G   A 190G      96.579  73.639 -25.428  1.00 44.56      A16S
ATOM   4005  C2  G   A 190G      95.524  73.813 -26.206  1.00 44.56      A16S
ATOM   4006  N2  G   A 190G      94.504  74.573 -25.785  1.00 44.56      A16S
ATOM   4007  N1  G   A 190G      95.389  73.252 -27.450  1.00 44.56      A16S
ATOM   4008  C6  G   A 190G      96.321  72.420 -28.055  1.00 44.56      A16S
ATOM   4009  O6  G   A 190G      96.101  71.965 -29.178  1.00 44.56      A16S
ATOM   4010  C5  G   A 190G      97.450  72.217 -27.234  1.00 44.56      A16S
ATOM   4011  N7  G   A 190G      98.591  71.463 -27.451  1.00 44.56      A16S
ATOM   4012  C8  G   A 190G      99.308  71.649 -26.378  1.00 44.56      A16S
ATOM   4013  C2* G   A 190G      98.477  72.508 -22.989  1.00 49.23      A16S
ATOM   4014  O2* G   A 190G      98.548  73.523 -22.006  1.00 49.23      A16S
ATOM   4015  C3* G   A 190G      99.237  71.251 -22.593  1.00 49.23      A16S
ATOM   4016  O3* G   A 190G      99.029  70.902 -21.223  1.00 49.23      A16S
ATOM   4017  P   G   A 190H      97.913  69.802 -20.853  1.00 64.61      A16S
ATOM   4018  O1P G   A 190H      97.961  69.629 -19.380  1.00 59.04      A16S
ATOM   4019  O2P G   A 190H      98.102  68.621 -21.737  1.00 59.04      A16S
ATOM   4020  O5* G   A 190H      96.528  70.467 -21.290  1.00 64.61      A16S
ATOM   4021  C5* G   A 190H      95.935  71.515 -20.509  1.00 64.61      A16S
ATOM   4022  C4* G   A 190H      94.616  71.958 -21.107  1.00 64.61      A16S
ATOM   4023  O4* G   A 190H      94.833  72.557 -22.409  1.00 64.61      A16S
ATOM   4024  C1* G   A 190H      93.670  72.397 -23.203  1.00 64.61      A16S
ATOM   4025  N9  G   A 190H      93.994  71.637 -24.404  1.00 59.04      A16S
ATOM   4026  C4  G   A 190H      93.177  71.477 -25.492  1.00 59.04      A16S
ATOM   4027  N3  G   A 190H      91.937  71.981 -25.625  1.00 59.04      A16S
ATOM   4028  C2  G   A 190H      91.406  71.666 -26.790  1.00 59.04      A16S
ATOM   4029  N2  G   A 190H      90.168  72.080 -27.085  1.00 59.04      A16S
ATOM   4030  N1  G   A 190H      92.048  70.922 -27.750  1.00 59.04      A16S
ATOM   4031  C6  G   A 190H      93.329  70.401 -27.630  1.00 59.04      A16S
ATOM   4032  O6  G   A 190H      93.824  69.761 -28.555  1.00 59.04      A16S
ATOM   4033  C5  G   A 190H      93.900  70.718 -26.386  1.00 59.04      A16S
ATOM   4034  N7  G   A 190H      95.139  70.391 -25.864  1.00 59.04      A16S
ATOM   4035  C8  G   A 190H      95.150  70.952 -24.684  1.00 59.04      A16S
ATOM   4036  C2* G   A 190H      92.648  71.647 -22.366  1.00 64.61      A16S
ATOM   4037  O2* G   A 190H      91.848  72.609 -21.718  1.00 64.61      A16S
ATOM   4038  C3* G   A 190H      93.538  70.919 -21.375  1.00 64.61      A16S
ATOM   4039  O3* G   A 190H      92.778  70.568 -20.233  1.00 64.61      A16S
ATOM   4040  P   G   A 190I      91.897  69.217 -20.256  1.00 73.05      A16S
ATOM   4041  O1P G   A 190I      91.186  69.201 -18.955  1.00 56.16      A16S
ATOM   4042  O2P G   A 190I      92.753  68.058 -20.644  1.00 56.16      A16S
ATOM   4043  O5* G   A 190I      90.837  69.423 -21.431  1.00 73.05      A16S
ATOM   4044  C5* G   A 190I      89.787  70.385 -21.297  1.00 73.05      A16S
ATOM   4045  C4* G   A 190I      88.833  70.317 -22.464  1.00 73.05      A16S
ATOM   4046  O4* G   A 190I      89.492  70.686 -23.702  1.00 73.05      A16S
ATOM   4047  C1* G   A 190I      88.840  70.048 -24.787  1.00 73.05      A16S
ATOM   4048  N9  G   A 190I      89.792  69.195 -25.485  1.00 56.16      A16S
ATOM   4049  C4  G   A 190I      89.695  68.768 -26.785  1.00 56.16      A16S
ATOM   4050  N3  G   A 190I      88.709  69.077 -27.642  1.00 56.16      A16S
ATOM   4051  C2  G   A 190I      88.880  68.503 -28.812  1.00 56.16      A16S
ATOM   4052  N2  G   A 190I      87.982  68.697 -29.772  1.00 56.16      A16S
ATOM   4053  N1  G   A 190I      89.943  67.693 -29.125  1.00 56.16      A16S
ATOM   4054  C6  G   A 190I      90.972  67.356 -28.258  1.00 56.16      A16S
ATOM   4055  O6  G   A 190I      91.886  66.602 -28.639  1.00 56.16      A16S
ATOM   4056  C5  G   A 190I      90.794  67.966 -26.992  1.00 56.16      A16S
ATOM   4057  N7  G   A 190I      91.572  67.897 -25.847  1.00 56.16      A16S
ATOM   4058  C8  G   A 190I      90.939  68.644 -24.981  1.00 56.16      A16S
ATOM   4059  C2* G   A 190I      87.715  69.199 -24.208  1.00 73.05      A16S
ATOM   4060  O2* G   A 190I      86.523  69.955 -24.226  1.00 73.05      A16S
ATOM   4061  C3* G   A 190I      88.196  68.980 -22.785  1.00 73.05      A16S
ATOM   4062  O3* G   A 190I      87.102  68.687 -21.945  1.00 73.05      A16S
ATOM   4063  P   U   A 190J      86.658  67.158 -21.735  1.00 60.23      A16S
ATOM   4064  O1P U   A 190J      85.495  67.219 -20.810  1.00 76.96      A16S
ATOM   4065  O2P U   A 190J      87.845  66.331 -21.371  1.00 76.96      A16S
ATOM   4066  O5* U   A 190J      86.144  66.691 -23.172  1.00 60.23      A16S
ATOM   4067  C5* U   A 190J      84.969  67.282 -23.740  1.00 60.23      A16S
ATOM   4068  C4* U   A 190J      84.756  66.812 -25.157  1.00 60.23      A16S
ATOM   4069  O4* U   A 190J      85.895  67.160 -25.984  1.00 60.23      A16S
ATOM   4070  C1* U   A 190J      86.019  66.223 -27.037  1.00 60.23      A16S
ATOM   4071  N1  U   A 190J      87.374  65.650 -27.023  1.00 76.96      A16S
ATOM   4072  C6  U   A 190J      88.162  65.670 -25.896  1.00 76.96      A16S
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ATOM   4073  C2  U   A 190J      87.830  65.066 -28.194  1.00 76.96       A16S
ATOM   4074  O2  U   A 190J      87.181  65.047 -29.219  1.00 76.96       A16S
ATOM   4075  N3  U   A 190J      89.075  64.507 -28.118  1.00 76.96       A16S
ATOM   4076  C4  U   A 190J      89.904  64.479 -27.025  1.00 76.96       A16S
ATOM   4077  O4  U   A 190J      91.003  63.937 -27.120  1.00 76.96       A16S
ATOM   4078  C5  U   A 190J      89.379  65.118 -25.858  1.00 76.96       A16S
ATOM   4079  C2* U   A 190J      84.932  65.164 -26.846  1.00 60.23       A16S
ATOM   4080  O2* U   A 190J      83.849  65.443 -27.710  1.00 60.23       A16S
ATOM   4081  C3* U   A 190J      84.594  65.325 -25.368  1.00 60.23       A16S
ATOM   4082  O3* U   A 190J      83.281  64.899 -25.065  1.00 60.23       A16S
ATOM   4083  P   G   A 190K      83.030  63.373 -24.619  1.00 75.17       A16S
ATOM   4084  O1P G   A 190K      81.646  63.309 -24.081  1.00 54.26       A16S
ATOM   4085  O2P G   A 190K      84.163  62.908 -23.776  1.00 54.26       A16S
ATOM   4086  O5* G   A 190K      83.056  62.580 -25.998  1.00 75.17       A16S
ATOM   4087  C5* G   A 190K      81.986  62.751 -26.937  1.00 75.17       A16S
ATOM   4088  C4* G   A 190K      82.248  61.967 -28.195  1.00 75.17       A16S
ATOM   4089  O4* G   A 190K      83.330  62.574 -28.947  1.00 75.17       A16S
ATOM   4090  C1* G   A 190K      84.041  61.567 -29.651  1.00 75.17       A16S
ATOM   4091  N9  G   A 190K      85.428  61.569 -29.188  1.00 54.26       A16S
ATOM   4092  C4  G   A 190K      86.520  61.116 -29.887  1.00 54.26       A16S
ATOM   4093  N3  G   A 190K      86.505  60.608 -31.132  1.00 54.26       A16S
ATOM   4094  C2  G   A 190K      87.707  60.246 -31.528  1.00 54.26       A16S
ATOM   4095  N2  G   A 190K      87.873  59.721 -32.745  1.00 54.26       A16S
ATOM   4096  N1  G   A 190K      88.833  60.369 -30.760  1.00 54.26       A16S
ATOM   4097  C6  G   A 190K      88.867  60.876 -29.467  1.00 54.26       A16S
ATOM   4098  O6  G   A 190K      89.933  60.911 -28.842  1.00 54.26       A16S
ATOM   4099  C5  G   A 190K      87.594  61.282 -29.038  1.00 54.26       A16S
ATOM   4100  N7  G   A 190K      87.192  61.842 -27.835  1.00 54.26       A16S
ATOM   4101  C8  G   A 190K      85.902  61.998 -27.968  1.00 54.26       A16S
ATOM   4102  C2* G   A 190K      83.347  60.233 -29.366  1.00 75.17       A16S
ATOM   4103  O2* G   A 190K      82.410  59.954 -30.391  1.00 75.17       A16S
ATOM   4104  C3* G   A 190K      82.676  60.521 -28.028  1.00 75.17       A16S
ATOM   4105  O3* G   A 190K      81.590  59.654 -27.742  1.00 75.17       A16S
ATOM   4106  P   U   A 190L      81.828  58.362 -26.803  1.00 65.93       A16S
ATOM   4107  O1P U   A 190L      80.472  57.964 -26.352  1.00 63.02       A16S
ATOM   4108  O2P U   A 190L      82.889  58.615 -25.785  1.00 63.02       A16S
ATOM   4109  O5* U   A 190L      82.370  57.266 -27.824  1.00 65.93       A16S
ATOM   4110  C5* U   A 190L      81.605  56.953 -28.997  1.00 65.93       A16S
ATOM   4111  C4* U   A 190L      82.407  56.128 -29.968  1.00 65.93       A16S
ATOM   4112  O4* U   A 190L      83.382  56.945 -30.659  1.00 65.93       A16S
ATOM   4113  C1* U   A 190L      84.484  56.136 -31.038  1.00 65.93       A16S
ATOM   4114  N1  U   A 190L      85.710  56.655 -30.408  1.00 63.02       A16S
ATOM   4115  C6  U   A 190L      85.668  57.387 -29.249  1.00 63.02       A16S
ATOM   4116  C2  U   A 190L      86.926  56.334 -30.999  1.00 63.02       A16S
ATOM   4117  O2  U   A 190L      87.017  55.747 -32.071  1.00 63.02       A16S
ATOM   4118  N3  U   A 190L      88.033  56.733 -30.295  1.00 63.02       A16S
ATOM   4119  C4  U   A 190L      88.054  57.420 -29.105  1.00 63.02       A16S
ATOM   4120  O4  U   A 190L      89.125  57.572 -28.517  1.00 63.02       A16S
ATOM   4121  C5  U   A 190L      86.767  57.770 -28.598  1.00 63.02       A16S
ATOM   4122  C2* U   A 190L      84.204  54.715 -30.536  1.00 65.93       A16S
ATOM   4123  O2* U   A 190L      83.640  53.918 -31.560  1.00 65.93       A16S
ATOM   4124  C3* U   A 190L      83.216  54.974 -29.412  1.00 65.93       A16S
ATOM   4125  O3* U   A 190L      82.447  53.821 -29.129  1.00 65.93       A16S
ATOM   4126  P   G   A 191       82.937  52.816 -27.977  1.00 57.95       A16S
ATOM   4127  O1P G   A 191       81.937  51.725 -27.882  1.00 51.87       A16S
ATOM   4128  O2P G   A 191       83.272  53.602 -26.762  1.00 51.87       A16S
ATOM   4129  O5* G   A 191       84.284  52.227 -28.573  1.00 57.95       A16S
ATOM   4130  C5* G   A 191       84.274  51.538 -29.820  1.00 57.95       A16S
ATOM   4131  C4* G   A 191       85.666  51.123 -30.186  1.00 57.95       A16S
ATOM   4132  O4* G   A 191       86.446  52.297 -30.540  1.00 57.95       A16S
ATOM   4133  C1* G   A 191       87.797  52.107 -30.142  1.00 57.95       A16S
ATOM   4134  N9  G   A 191       88.146  53.144 -29.174  1.00 51.87       A16S
ATOM   4135  C4  G   A 191       89.414  53.479 -28.757  1.00 51.87       A16S
ATOM   4136  N3  G   A 191       90.569  52.940 -29.206  1.00 51.87       A16S
ATOM   4137  C2  G   A 191       91.626  53.447 -28.587  1.00 51.87       A16S
ATOM   4138  N2  G   A 191       92.856  53.031 -28.907  1.00 51.87       A16S
ATOM   4139  N1  G   A 191       91.555  54.401 -27.609  1.00 51.87       A16S
ATOM   4140  C6  G   A 191       90.383  54.976 -27.136  1.00 51.87       A16S
ATOM   4141  O6  G   A 191       90.436  55.835 -26.255  1.00 51.87       A16S
ATOM   4142  C5  G   A 191       89.237  54.445 -27.790  1.00 51.87       A16S
ATOM   4143  N7  G   A 191       87.887  54.734 -27.620  1.00 51.87       A16S
ATOM   4144  C8  G   A 191       87.280  53.949 -28.468  1.00 51.87       A16S
ATOM   4145  C2* G   A 191       87.899  50.708 -29.522  1.00 57.95       A16S
ATOM   4146  O2* G   A 191       88.306  49.776 -30.502  1.00 57.95       A16S
ATOM   4147  C3* G   A 191       86.463  50.462 -29.076  1.00 57.95       A16S
ATOM   4148  O3* G   A 191       86.163  49.085 -28.922  1.00 57.95       A16S
ATOM   4149  P   U   A 192       86.315  48.393 -27.468  1.00 68.61       A16S
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ATOM   4150  O1P U   A 192      85.836  46.986 -27.608  1.00 57.39      A16S
ATOM   4151  O2P U   A 192      85.694  49.280 -26.436  1.00 57.39      A16S
ATOM   4152  O5* U   A 192      87.892  48.364 -27.204  1.00 68.61      A16S
ATOM   4153  C5* U   A 192      88.760  47.537 -28.004  1.00 68.61      A16S
ATOM   4154  C4* U   A 192      90.208  47.786 -27.652  1.00 68.61      A16S
ATOM   4155  O4* U   A 192      90.553  49.162 -27.945  1.00 68.61      A16S
ATOM   4156  C1* U   A 192      91.515  49.623 -27.011  1.00 68.61      A16S
ATOM   4157  N1   U   A 192      90.943  50.752 -26.266  1.00 57.39      A16S
ATOM   4158  C6   U   A 192      89.630  51.099 -26.406  1.00 57.39      A16S
ATOM   4159  C2   U   A 192      91.776  51.453 -25.412  1.00 57.39      A16S
ATOM   4160  O2   U   A 192      92.951  51.166 -25.240  1.00 57.39      A16S
ATOM   4161  N3   U   A 192      91.179  52.496 -24.755  1.00 57.39      A16S
ATOM   4162  C4   U   A 192      89.871  52.891 -24.850  1.00 57.39      A16S
ATOM   4163  O4   U   A 192      89.473  53.844 -24.178  1.00 57.39      A16S
ATOM   4164  C5   U   A 192      89.081  52.113 -25.744  1.00 57.39      A16S
ATOM   4165  C2* U   A 192      91.841  48.465 -26.076  1.00 68.61      A16S
ATOM   4166  O2* U   A 192      92.982  47.794 -26.551  1.00 68.61      A16S
ATOM   4167  C3* U   A 192      90.586  47.620 -26.194  1.00 68.61      A16S
ATOM   4168  O3* U   A 192      90.849  46.278 -25.853  1.00 68.61      A16S
ATOM   4169  P    C   A 193      90.725  45.817 -24.317  1.00 66.17      A16S
ATOM   4170  O1P C   A 193      91.023  44.356 -24.295  1.00 46.19      A16S
ATOM   4171  O2P C   A 193      89.442  46.321 -23.758  1.00 46.19      A16S
ATOM   4172  O5* C   A 193      91.884  46.617 -23.570  1.00 66.17      A16S
ATOM   4173  C5* C   A 193      93.265  46.387 -23.886  1.00 66.17      A16S
ATOM   4174  C4* C   A 193      94.143  47.317 -23.088  1.00 66.17      A16S
ATOM   4175  O4* C   A 193      93.900  48.693 -23.480  1.00 66.17      A16S
ATOM   4176  C1* C   A 193      94.065  49.541 -22.359  1.00 66.17      A16S
ATOM   4177  N1   C   A 193      92.799  50.230 -22.096  1.00 46.19      A16S
ATOM   4178  C6   C   A 193      91.626  49.771 -22.617  1.00 46.19      A16S
ATOM   4179  C2   C   A 193      92.810  51.368 -21.288  1.00 46.19      A16S
ATOM   4180  O2   C   A 193      93.889  51.767 -20.823  1.00 46.19      A16S
ATOM   4181  N3   C   A 193      91.651  52.005 -21.029  1.00 46.19      A16S
ATOM   4182  C4   C   A 193      90.516  51.546 -21.535  1.00 46.19      A16S
ATOM   4183  N4   C   A 193      89.406  52.198 -21.240  1.00 46.19      A16S
ATOM   4184  C5   C   A 193      90.471  50.394 -22.362  1.00 46.19      A16S
ATOM   4185  C2* C   A 193      94.455  48.672 -21.169  1.00 66.17      A16S
ATOM   4186  O2* C   A 193      95.859  48.679 -21.030  1.00 66.17      A16S
ATOM   4187  C3* C   A 193      93.903  47.319 -21.591  1.00 66.17      A16S
ATOM   4188  O3* C   A 193      94.550  46.245 -20.941  1.00 66.17      A16S
ATOM   4189  P    C   A 194      94.011  45.751 -19.511  1.00 44.14      A16S
ATOM   4190  O1P C   A 194      94.787  44.528 -19.191  1.00 36.19      A16S
ATOM   4191  O2P C   A 194      92.516  45.711 -19.496  1.00 36.19      A16S
ATOM   4192  O5* C   A 194      94.452  46.911 -18.519  1.00 44.14      A16S
ATOM   4193  C5* C   A 194      95.819  47.079 -18.146  1.00 44.14      A16S
ATOM   4194  C4* C   A 194      95.928  48.153 -17.102  1.00 44.14      A16S
ATOM   4195  O4* C   A 194      95.524  49.421 -17.669  1.00 44.14      A16S
ATOM   4196  C1* C   A 194      94.835  50.180 -16.698  1.00 44.14      A16S
ATOM   4197  N1   C   A 194      93.481  50.427 -17.204  1.00 36.19      A16S
ATOM   4198  C6   C   A 194      92.929  49.603 -18.145  1.00 36.19      A16S
ATOM   4199  C2   C   A 194      92.761  51.517 -16.710  1.00 36.19      A16S
ATOM   4200  O2   C   A 194      93.285  52.245 -15.853  1.00 36.19      A16S
ATOM   4201  N3   C   A 194      91.515  51.745 -17.174  1.00 36.19      A16S
ATOM   4202  C4   C   A 194      90.986  50.927 -18.089  1.00 36.19      A16S
ATOM   4203  N4   C   A 194      89.753  51.175 -18.512  1.00 36.19      A16S
ATOM   4204  C5   C   A 194      91.698  49.814 -18.607  1.00 36.19      A16S
ATOM   4205  C2* C   A 194      94.839  49.383 -15.393  1.00 44.14      A16S
ATOM   4206  O2* C   A 194      95.918  49.813 -14.585  1.00 44.14      A16S
ATOM   4207  C3* C   A 194      95.016  47.963 -15.909  1.00 44.14      A16S
ATOM   4208  O3* C   A 194      95.622  47.101 -14.966  1.00 44.14      A16S
ATOM   4209  P    A   A 195      94.776  45.894 -14.330  1.00 45.22      A16S
ATOM   4210  O1P A   A 195      95.647  44.696 -14.369  1.00 40.02      A16S
ATOM   4211  O2P A   A 195      93.422  45.854 -14.967  1.00 40.02      A16S
ATOM   4212  O5* A   A 195      94.558  46.359 -12.823  1.00 45.22      A16S
ATOM   4213  C5* A   A 195      93.668  47.449 -12.533  1.00 45.22      A16S
ATOM   4214  C4* A   A 195      94.250  48.337 -11.472  1.00 45.22      A16S
ATOM   4215  O4* A   A 195      93.564  49.602 -11.505  1.00 45.22      A16S
ATOM   4216  C1* A   A 195      93.400  50.091 -10.193  1.00 45.22      A16S
ATOM   4217  N9   A   A 195      91.968  50.222  -9.986  1.00 40.02      A16S
ATOM   4218  C4   A   A 195      91.303  51.166  -9.255  1.00 40.02      A16S
ATOM   4219  N3   A   A 195      91.836  52.148  -8.516  1.00 40.02      A16S
ATOM   4220  C2   A   A 195      90.877  52.899  -7.980  1.00 40.02      A16S
ATOM   4221  N1   A   A 195      89.548  52.781  -8.091  1.00 40.02      A16S
ATOM   4222  C6   A   A 195      89.053  51.768  -8.840  1.00 40.02      A16S
ATOM   4223  N6   A   A 195      87.728  51.631  -8.956  1.00 40.02      A16S
ATOM   4224  C5   A   A 195      89.963  50.914  -9.456  1.00 40.02      A16S
ATOM   4225  N7   A   A 195      89.788  49.812 -10.268  1.00 40.02      A16S
ATOM   4226  C8   A   A 195      91.004  49.433 -10.544  1.00 40.02      A16S
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ATOM   4227  C2* A   A 195      94.114  49.132  -9.240  1.00 45.22      A16S
ATOM   4228  O2* A   A 195      95.424  49.617  -9.009  1.00 45.22      A16S
ATOM   4229  C3* A   A 195      94.117  47.841 -10.046  1.00 45.22      A16S
ATOM   4230  O3* A   A 195      95.239  47.042  -9.722  1.00 45.22      A16S
ATOM   4231  P   A   A 196      95.036  45.651  -8.951  1.00 57.98      A16S
ATOM   4232  O1P A   A 196      96.246  44.838  -9.259  1.00 49.02      A16S
ATOM   4233  O2P A   A 196      93.684  45.124  -9.288  1.00 49.02      A16S
ATOM   4234  O5* A   A 196      95.036  46.048  -7.404  1.00 57.98      A16S
ATOM   4235  C5* A   A 196      96.221  46.590  -6.763  1.00 57.98      A16S
ATOM   4236  C4* A   A 196      95.834  47.328  -5.498  1.00 57.98      A16S
ATOM   4237  O4* A   A 196      94.880  48.358  -5.847  1.00 57.98      A16S
ATOM   4238  C1* A   A 196      93.828  48.384  -4.914  1.00 57.98      A16S
ATOM   4239  N9   A   A 196      92.620  48.070  -5.661  1.00 49.02      A16S
ATOM   4240  C4   A   A 196      91.504  48.862  -5.788  1.00 49.02      A16S
ATOM   4241  N3   A   A 196      91.291  50.066  -5.235  1.00 49.02      A16S
ATOM   4242  C2   A   A 196      90.111  50.549  -5.611  1.00 49.02      A16S
ATOM   4243  N1   A   A 196      89.189  50.005  -6.411  1.00 49.02      A16S
ATOM   4244  C6   A   A 196      89.430  48.793  -6.946  1.00 49.02      A16S
ATOM   4245  N6   A   A 196      88.508  48.254  -7.736  1.00 49.02      A16S
ATOM   4246  C5   A   A 196      90.647  48.173  -6.633  1.00 49.02      A16S
ATOM   4247  N7   A   A 196      91.208  46.960  -7.021  1.00 49.02      A16S
ATOM   4248  C8   A   A 196      92.373  46.943  -6.414  1.00 49.02      A16S
ATOM   4249  C2* A   A 196      94.163  47.406  -3.785  1.00 57.98      A16S
ATOM   4250  O2* A   A 196      94.725  48.105  -2.692  1.00 57.98      A16S
ATOM   4251  C3* A   A 196      95.140  46.455  -4.468  1.00 57.98      A16S
ATOM   4252  O3* A   A 196      96.112  45.955  -3.558  1.00 57.98      A16S
ATOM   4253  P   A   A 197      96.253  44.374  -3.327  1.00 52.26      A16S
ATOM   4254  O1P A   A 197      94.894  43.778  -3.365  1.00 53.55      A16S
ATOM   4255  O2P A   A 197      97.309  43.848  -4.232  1.00 53.55      A16S
ATOM   4256  O5* A   A 197      96.785  44.277  -1.828  1.00 52.26      A16S
ATOM   4257  C5* A   A 197      96.592  43.078  -1.046  1.00 52.26      A16S
ATOM   4258  C4* A   A 197      95.616  43.334   0.080  1.00 52.26      A16S
ATOM   4259  O4* A   A 197      96.273  44.029   1.163  1.00 52.26      A16S
ATOM   4260  C1* A   A 197      95.780  45.351   1.279  1.00 52.26      A16S
ATOM   4261  N9   A   A 197      96.948  46.227   1.175  1.00 53.55      A16S
ATOM   4262  C4   A   A 197      97.458  47.070   2.134  1.00 53.55      A16S
ATOM   4263  N3   A   A 197      96.937  47.357   3.337  1.00 53.55      A16S
ATOM   4264  C2   A   A 197      97.761  48.142   4.028  1.00 53.55      A16S
ATOM   4265  N1   A   A 197      98.952  48.632   3.680  1.00 53.55      A16S
ATOM   4266  C6   A   A 197      99.438  48.333   2.463  1.00 53.55      A16S
ATOM   4267  N6   A   A 197     100.622  48.819   2.116  1.00 53.55      A16S
ATOM   4268  C5   A   A 197      98.664  47.520   1.634  1.00 53.55      A16S
ATOM   4269  N7   A   A 197      98.874  47.037   0.356  1.00 53.55      A16S
ATOM   4270  C8   A   A 197      97.822  46.297   0.122  1.00 53.55      A16S
ATOM   4271  C2* A   A 197      94.746  45.581   0.179  1.00 52.26      A16S
ATOM   4272  O2* A   A 197      93.685  46.406   0.613  1.00 52.26      A16S
ATOM   4273  C3* A   A 197      94.398  44.159  -0.291  1.00 52.26      A16S
ATOM   4274  O3* A   A 197      93.155  43.479   0.026  1.00 52.26      A16S
ATOM   4275  P   G   A 198      92.610  43.368   1.542  1.00 54.45      A16S
ATOM   4276  O1P G   A 198      91.414  42.494   1.501  1.00 52.31      A16S
ATOM   4277  O2P G   A 198      92.499  44.718   2.145  1.00 52.31      A16S
ATOM   4278  O5* G   A 198      93.729  42.550   2.310  1.00 54.45      A16S
ATOM   4279  C5* G   A 198      93.636  42.373   3.714  1.00 54.45      A16S
ATOM   4280  C4* G   A 198      94.909  42.809   4.353  1.00 54.45      A16S
ATOM   4281  O4* G   A 198      95.234  44.126   3.861  1.00 54.45      A16S
ATOM   4282  C1* G   A 198      95.777  44.909   4.906  1.00 54.45      A16S
ATOM   4283  N9   G   A 198      94.840  45.997   5.168  1.00 52.31      A16S
ATOM   4284  C4   G   A 198      95.037  47.065   6.006  1.00 52.31      A16S
ATOM   4285  N3   G   A 198      96.145  47.304   6.732  1.00 52.31      A16S
ATOM   4286  C2   G   A 198      96.033  48.406   7.448  1.00 52.31      A16S
ATOM   4287  N2   G   A 198      97.045  48.788   8.232  1.00 52.31      A16S
ATOM   4288  N1   G   A 198      94.918  49.211   7.452  1.00 52.31      A16S
ATOM   4289  C6   G   A 198      93.762  48.979   6.718  1.00 52.31      A16S
ATOM   4290  O6   G   A 198      92.806  49.757   6.806  1.00 52.31      A16S
ATOM   4291  C5   G   A 198      93.872  47.803   5.941  1.00 52.31      A16S
ATOM   4292  N7   G   A 198      92.965  47.215   5.072  1.00 52.31      A16S
ATOM   4293  C8   G   A 198      93.581  46.150   4.638  1.00 52.31      A16S
ATOM   4294  C2* G   A 198      95.935  43.991   6.117  1.00 54.45      A16S
ATOM   4295  O2* G   A 198      97.204  43.365   6.100  1.00 54.45      A16S
ATOM   4296  C3* G   A 198      94.840  42.977   5.854  1.00 54.45      A16S
ATOM   4297  O3* G   A 198      95.029  41.766   6.556  1.00 54.45      A16S
ATOM   4298  P   G   A 199      94.242  41.545   7.932  1.00 52.00      A16S
ATOM   4299  O1P G   A 199      94.536  40.166   8.390  1.00 53.97      A16S
ATOM   4300  O2P G   A 199      92.829  41.972   7.726  1.00 53.97      A16S
ATOM   4301  O5* G   A 199      94.939  42.573   8.918  1.00 52.00      A16S
ATOM   4302  C5* G   A 199      96.319  42.439   9.227  1.00 52.00      A16S
ATOM   4303  C4* G   A 199      96.797  43.659   9.950  1.00 52.00      A16S
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ATOM   4304  O4* G   A 199      96.497  44.832   9.152  1.00 52.00      A16S
ATOM   4305  C1* G   A 199      96.316  45.950  10.004  1.00 52.00      A16S
ATOM   4306  N9  G   A 199      95.010  46.537   9.749  1.00 53.97      A16S
ATOM   4307  C4  G   A 199      94.562  47.714  10.279  1.00 53.97      A16S
ATOM   4308  N3  G   A 199      95.265  48.524  11.091  1.00 53.97      A16S
ATOM   4309  C2  G   A 199      94.572  49.579  11.451  1.00 53.97      A16S
ATOM   4310  N2  G   A 199      95.134  50.496  12.243  1.00 53.97      A16S
ATOM   4311  N1  G   A 199      93.282  49.813  11.058  1.00 53.97      A16S
ATOM   4312  C6  G   A 199      92.536  48.985  10.226  1.00 53.97      A16S
ATOM   4313  O6  G   A 199      91.364  49.278   9.947  1.00 53.97      A16S
ATOM   4314  C5  G   A 199      93.278  47.861   9.815  1.00 53.97      A16S
ATOM   4315  N7  G   A 199      92.931  46.807   8.979  1.00 53.97      A16S
ATOM   4316  C8  G   A 199      93.991  46.044   8.970  1.00 53.97      A16S
ATOM   4317  C2* G   A 199      96.407  45.457  11.442  1.00 52.00      A16S
ATOM   4318  O2* G   A 199      97.703  45.707  11.956  1.00 52.00      A16S
ATOM   4319  C3* G   A 199      96.119  43.974  11.268  1.00 52.00      A16S
ATOM   4320  O3* G   A 199      96.638  43.221  12.334  1.00 52.00      A16S
ATOM   4321  P   G   A 200      95.709  42.938  13.603  1.00 52.64      A16S
ATOM   4322  O1P G   A 200      96.465  41.984  14.462  1.00 42.26      A16S
ATOM   4323  O2P G   A 200      94.354  42.583  13.100  1.00 42.26      A16S
ATOM   4324  O5* G   A 200      95.636  44.341  14.350  1.00 52.64      A16S
ATOM   4325  C5* G   A 200      96.832  44.966  14.835  1.00 52.64      A16S
ATOM   4326  C4* G   A 200      96.496  46.256  15.524  1.00 52.64      A16S
ATOM   4327  O4* G   A 200      95.986  47.219  14.574  1.00 52.64      A16S
ATOM   4328  C1* G   A 200      94.976  48.006  15.175  1.00 52.64      A16S
ATOM   4329  N9  G   A 200      93.736  47.803  14.436  1.00 42.26      A16S
ATOM   4330  C4  G   A 200      92.691  48.683  14.350  1.00 42.26      A16S
ATOM   4331  N3  G   A 200      92.599  49.867  14.990  1.00 42.26      A16S
ATOM   4332  C2  G   A 200      91.484  50.511  14.677  1.00 42.26      A16S
ATOM   4333  N2  G   A 200      91.232  51.714  15.221  1.00 42.26      A16S
ATOM   4334  N1  G   A 200      90.536  50.027  13.806  1.00 42.26      A16S
ATOM   4335  C6  G   A 200      90.613  48.812  13.132  1.00 42.26      A16S
ATOM   4336  O6  G   A 200      89.707  48.475  12.347  1.00 42.26      A16S
ATOM   4337  C5  G   A 200      91.800  48.109  13.465  1.00 42.26      A16S
ATOM   4338  N7  G   A 200      92.257  46.871  13.040  1.00 42.26      A16S
ATOM   4339  C8  G   A 200      93.399  46.725  13.653  1.00 42.26      A16S
ATOM   4340  C2* G   A 200      94.879  47.581  16.630  1.00 52.64      A16S
ATOM   4341  O2* G   A 200      95.719  48.450  17.373  1.00 52.64      A16S
ATOM   4342  C3* G   A 200      95.400  46.151  16.555  1.00 52.64      A16S
ATOM   4343  O3* G   A 200      95.907  45.666  17.779  1.00 52.64      A16S
ATOM   4344  P   C   A 201      94.888  45.126  18.887  1.00 69.41      A16S
ATOM   4345  O1P C   A 201      95.573  44.031  19.638  1.00 39.55      A16S
ATOM   4346  O2P C   A 201      93.577  44.861  18.210  1.00 39.55      A16S
ATOM   4347  O5* C   A 201      94.745  46.383  19.852  1.00 69.41      A16S
ATOM   4348  C5* C   A 201      93.555  46.599  20.606  1.00 69.41      A16S
ATOM   4349  C4* C   A 201      92.937  47.909  20.219  1.00 69.41      A16S
ATOM   4350  O4* C   A 201      92.766  47.937  18.789  1.00 69.41      A16S
ATOM   4351  C1* C   A 201      91.625  48.701  18.472  1.00 69.41      A16S
ATOM   4352  N1  C   A 201      90.818  47.996  17.457  1.00 39.55      A16S
ATOM   4353  C6  C   A 201      91.194  46.775  16.974  1.00 39.55      A16S
ATOM   4354  C2  C   A 201      89.667  48.623  16.965  1.00 39.55      A16S
ATOM   4355  O2  C   A 201      89.315  49.690  17.467  1.00 39.55      A16S
ATOM   4356  N3  C   A 201      88.970  48.044  15.972  1.00 39.55      A16S
ATOM   4357  C4  C   A 201      89.360  46.868  15.489  1.00 39.55      A16S
ATOM   4358  N4  C   A 201      88.651  46.338  14.493  1.00 39.55      A16S
ATOM   4359  C5  C   A 201      90.499  46.181  16.000  1.00 39.55      A16S
ATOM   4360  C2* C   A 201      90.916  49.093  19.767  1.00 69.41      A16S
ATOM   4361  O2* C   A 201      91.173  50.465  19.994  1.00 69.41      A16S
ATOM   4362  C3* C   A 201      91.546  48.137  20.780  1.00 69.41      A16S
ATOM   4363  O3* C   A 201      91.650  48.709  22.082  1.00 69.41      A16S
ATOM   4364  P   U   A 202      90.964  47.984  23.343  1.00133.41      A16S
ATOM   4365  O1P U   A 202      92.066  47.418  24.167  1.00200.96      A16S
ATOM   4366  O2P U   A 202      89.878  47.089  22.860  1.00200.96      A16S
ATOM   4367  O5* U   A 202      90.330  49.206  24.150  1.00133.41      A16S
ATOM   4368  C5* U   A 202      88.918  49.269  24.447  1.00133.41      A16S
ATOM   4369  C4* U   A 202      88.356  50.620  24.058  1.00133.41      A16S
ATOM   4370  O4* U   A 202      89.173  51.643  24.676  1.00133.41      A16S
ATOM   4371  C1* U   A 202      89.102  52.822  23.904  1.00133.41      A16S
ATOM   4372  N1  U   A 202      90.430  53.455  23.841  1.00200.96      A16S
ATOM   4373  C6  U   A 202      91.511  52.824  23.268  1.00200.96      A16S
ATOM   4374  C2  U   A 202      90.556  54.731  24.382  1.00200.96      A16S
ATOM   4375  O2  U   A 202      89.628  55.330  24.905  1.00200.96      A16S
ATOM   4376  N3  U   A 202      91.809  55.280  24.288  1.00200.96      A16S
ATOM   4377  C4  U   A 202      92.928  54.706  23.724  1.00200.96      A16S
ATOM   4378  O4  U   A 202      93.987  55.339  23.702  1.00200.96      A16S
ATOM   4379  C5  U   A 202      92.721  53.390  23.192  1.00200.96      A16S
ATOM   4380  C2* U   A 202      88.438  52.491  22.565  1.00133.41      A16S
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ATOM   4381  O2* U   A 202      87.150  53.076  22.545  1.00133.41      A16S
ATOM   4382  C3* U   A 202      88.399  50.960  22.571  1.00133.41      A16S
ATOM   4383  O3* U   A 202      87.221  50.568  21.841  1.00133.41      A16S
ATOM   4384  P   U   A 203      86.440  49.201  22.194  1.00 75.67      A16S
ATOM   4385  O1P U   A 203      85.447  49.552  23.239  1.00 71.12      A16S
ATOM   4386  O2P U   A 203      87.405  48.099  22.428  1.00 71.12      A16S
ATOM   4387  O5* U   A 203      85.635  48.846  20.868  1.00 75.67      A16S
ATOM   4388  C5* U   A 203      85.157  49.883  20.009  1.00 75.67      A16S
ATOM   4389  C4* U   A 203      84.568  49.291  18.761  1.00 75.67      A16S
ATOM   4390  O4* U   A 203      85.584  48.529  18.064  1.00 75.67      A16S
ATOM   4391  C1* U   A 203      85.125  47.214  17.842  1.00 75.67      A16S
ATOM   4392  N1  U   A 203      86.272  46.298  17.940  1.00 71.12      A16S
ATOM   4393  C6  U   A 203      87.144  46.362  19.001  1.00 71.12      A16S
ATOM   4394  C2  U   A 203      86.454  45.369  16.924  1.00 71.12      A16S
ATOM   4395  O2  U   A 203      85.700  45.266  15.965  1.00 71.12      A16S
ATOM   4396  N3  U   A 203      87.552  44.560  17.074  1.00 71.12      A16S
ATOM   4397  C4  U   A 203      88.463  44.579  18.108  1.00 71.12      A16S
ATOM   4398  O4  U   A 203      89.409  43.791  18.099  1.00 71.12      A16S
ATOM   4399  C5  U   A 203      88.202  45.557  19.114  1.00 71.12      A16S
ATOM   4400  C2* U   A 203      84.034  46.969  18.881  1.00 75.67      A16S
ATOM   4401  O2* U   A 203      83.123  45.991  18.429  1.00 75.67      A16S
ATOM   4402  C3* U   A 203      83.398  48.349  18.984  1.00 75.67      A16S
ATOM   4403  O3* U   A 203      82.499  48.524  17.907  1.00 75.67      A16S
ATOM   4404  P   U   A 204      81.176  49.402  18.110  1.00165.93      A16S
ATOM   4405  O1P U   A 204      81.423  50.352  19.229  1.00200.96      A16S
ATOM   4406  O2P U   A 204      80.019  48.474  18.178  1.00200.96      A16S
ATOM   4407  O5* U   A 204      81.084  50.240  16.757  1.00165.93      A16S
ATOM   4408  C5* U   A 204      79.899  50.979  16.438  1.00165.93      A16S
ATOM   4409  C4* U   A 204      79.516  50.761  14.996  1.00165.93      A16S
ATOM   4410  O4* U   A 204      79.912  49.432  14.594  1.00165.93      A16S
ATOM   4411  C1* U   A 204      78.894  48.850  13.808  1.00165.93      A16S
ATOM   4412  N1  U   A 204      78.482  47.599  14.463  1.00200.96      A16S
ATOM   4413  C6  U   A 204      78.834  47.339  15.769  1.00200.96      A16S
ATOM   4414  C2  U   A 204      77.750  46.680  13.727  1.00200.96      A16S
ATOM   4415  O2  U   A 204      77.390  46.878  12.575  1.00200.96      A16S
ATOM   4416  N3  U   A 204      77.450  45.519  14.396  1.00200.96      A16S
ATOM   4417  C4  U   A 204      77.793  45.192  15.695  1.00200.96      A16S
ATOM   4418  O4  U   A 204      77.506  44.080  16.138  1.00200.96      A16S
ATOM   4419  C5  U   A 204      78.524  46.203  16.391  1.00200.96      A16S
ATOM   4420  C2* U   A 204      77.787  49.889  13.600  1.00165.93      A16S
ATOM   4421  O2* U   A 204      77.952  50.498  12.335  1.00165.93      A16S
ATOM   4422  C3* U   A 204      78.014  50.847  14.767  1.00165.93      A16S
ATOM   4423  O3* U   A 204      77.605  52.179  14.426  1.00165.93      A16S
ATOM   4424  P   G   A 216      77.748  53.377  15.501  1.00200.66      A16S
ATOM   4425  O1P G   A 216      77.276  52.922  16.837  1.00 81.50      A16S
ATOM   4426  O2P G   A 216      77.195  54.630  14.912  1.00 81.50      A16S
ATOM   4427  O5* G   A 216      79.315  53.595  15.594  1.00200.66      A16S
ATOM   4428  C5* G   A 216      80.049  54.027  14.450  1.00200.66      A16S
ATOM   4429  C4* G   A 216      81.406  54.479  14.875  1.00200.66      A16S
ATOM   4430  O4* G   A 216      82.137  53.353  15.412  1.00200.66      A16S
ATOM   4431  C1* G   A 216      83.512  53.519  15.136  1.00200.66      A16S
ATOM   4432  N9  G   A 216      84.019  52.321  14.475  1.00 81.50      A16S
ATOM   4433  C4  G   A 216      85.047  51.557  14.948  1.00 81.50      A16S
ATOM   4434  N3  G   A 216      85.760  51.817  16.058  1.00 81.50      A16S
ATOM   4435  C2  G   A 216      86.664  50.895  16.291  1.00 81.50      A16S
ATOM   4436  N2  G   A 216      87.449  51.020  17.368  1.00 81.50      A16S
ATOM   4437  N1  G   A 216      86.860  49.792  15.492  1.00 81.50      A16S
ATOM   4438  C6  G   A 216      86.139  49.502  14.340  1.00 81.50      A16S
ATOM   4439  O6  G   A 216      86.390  48.476  13.704  1.00 81.50      A16S
ATOM   4440  C5  G   A 216      85.159  50.500  14.074  1.00 81.50      A16S
ATOM   4441  N7  G   A 216      84.235  50.618  13.041  1.00 81.50      A16S
ATOM   4442  C8  G   A 216      83.583  51.718  13.317  1.00 81.50      A16S
ATOM   4443  C2* G   A 216      83.688  54.819  14.360  1.00200.66      A16S
ATOM   4444  O2* G   A 216      83.999  55.837  15.290  1.00200.66      A16S
ATOM   4445  C3* G   A 216      82.297  55.019  13.778  1.00200.66      A16S
ATOM   4446  O3* G   A 216      82.024  56.389  13.560  1.00200.66      A16S
ATOM   4447  P   C   A 217      82.946  57.223  12.552  1.00104.12      A16S
ATOM   4448  O1P C   A 217      82.173  58.445  12.209  1.00 83.43      A16S
ATOM   4449  O2P C   A 217      83.386  56.299  11.471  1.00 83.43      A16S
ATOM   4450  O5* C   A 217      84.218  57.614  13.435  1.00104.12      A16S
ATOM   4451  C5* C   A 217      85.560  57.521  12.902  1.00104.12      A16S
ATOM   4452  C4* C   A 217      86.559  57.322  14.021  1.00104.12      A16S
ATOM   4453  O4* C   A 217      86.286  56.066  14.690  1.00104.12      A16S
ATOM   4454  C1* C   A 217      87.500  55.422  15.034  1.00104.12      A16S
ATOM   4455  N1  C   A 217      87.611  54.193  14.227  1.00 83.43      A16S
ATOM   4456  C6  C   A 217      86.777  53.977  13.164  1.00 83.43      A16S
ATOM   4457  C2  C   A 217      88.592  53.252  14.556  1.00 83.43      A16S
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ATOM   4458  O2  C   A 217      89.331  53.463  15.536  1.00 83.43      A16S
ATOM   4459  N3  C   A 217      88.711  52.138  13.799  1.00 83.43      A16S
ATOM   4460  C4  C   A 217      87.895  51.945  12.759  1.00 83.43      A16S
ATOM   4461  N4  C   A 217      88.052  50.837  12.036  1.00 83.43      A16S
ATOM   4462  C5  C   A 217      86.884  52.879  12.412  1.00 83.43      A16S
ATOM   4463  C2* C   A 217      88.630  56.389  14.704  1.00104.12      A16S
ATOM   4464  O2* C   A 217      88.921  57.167  15.845  1.00104.12      A16S
ATOM   4465  C3* C   A 217      88.004  57.195  13.580  1.00104.12      A16S
ATOM   4466  O3* C   A 217      88.621  58.451  13.428  1.00104.12      A16S
ATOM   4467  P   C   A 218      89.757  58.633  12.316  1.00 81.12      A16S
ATOM   4468  O1P C   A 218      90.161  60.060  12.390  1.00 68.22      A16S
ATOM   4469  O2P C   A 218      89.269  58.064  11.029  1.00 68.22      A16S
ATOM   4470  O5* C   A 218      90.955  57.723  12.828  1.00 81.12      A16S
ATOM   4471  C5* C   A 218      91.738  58.119  13.956  1.00 81.12      A16S
ATOM   4472  C4* C   A 218      92.863  57.146  14.168  1.00 81.12      A16S
ATOM   4473  O4* C   A 218      92.313  55.843  14.484  1.00 81.12      A16S
ATOM   4474  C1* C   A 218      93.119  54.832  13.908  1.00 81.12      A16S
ATOM   4475  N1  C   A 218      92.317  54.105  12.909  1.00 68.22      A16S
ATOM   4476  C6  C   A 218      91.192  54.660  12.367  1.00 68.22      A16S
ATOM   4477  C2  C   A 218      92.728  52.824  12.518  1.00 68.22      A16S
ATOM   4478  O2  C   A 218      93.776  52.361  12.993  1.00 68.22      A16S
ATOM   4479  N3  C   A 218      91.984  52.133  11.625  1.00 68.22      A16S
ATOM   4480  C4  C   A 218      90.884  52.681  11.109  1.00 68.22      A16S
ATOM   4481  N4  C   A 218      90.176  51.963  10.233  1.00 68.22      A16S
ATOM   4482  C5  C   A 218      90.455  53.992  11.469  1.00 68.22      A16S
ATOM   4483  C2* C   A 218      94.317  55.519  13.264  1.00 81.12      A16S
ATOM   4484  O2* C   A 218      95.377  55.583  14.197  1.00 81.12      A16S
ATOM   4485  C3* C   A 218      93.736  56.887  12.958  1.00 81.12      A16S
ATOM   4486  O3* C   A 218      94.731  57.868  12.781  1.00 81.12      A16S
ATOM   4487  P   C   A 219      95.198  58.248  11.293  1.00 72.18      A16S
ATOM   4488  O1P C   A 219      95.886  59.563  11.434  1.00 45.50      A16S
ATOM   4489  O2P C   A 219      94.047  58.118  10.353  1.00 45.50      A16S
ATOM   4490  O5* C   A 219      96.233  57.097  10.906  1.00 72.18      A16S
ATOM   4491  C5* C   A 219      97.377  56.826  11.725  1.00 72.18      A16S
ATOM   4492  C4* C   A 219      98.041  55.540  11.295  1.00 72.18      A16S
ATOM   4493  O4* C   A 219      97.212  54.398  11.637  1.00 72.18      A16S
ATOM   4494  C1* C   A 219      97.385  53.372  10.671  1.00 72.18      A16S
ATOM   4495  N1  C   A 219      96.095  53.122  10.003  1.00 45.50      A16S
ATOM   4496  C6  C   A 219      95.086  54.034  10.068  1.00 45.50      A16S
ATOM   4497  C2  C   A 219      95.917  51.926   9.287  1.00 45.50      A16S
ATOM   4498  O2  C   A 219      96.846  51.105   9.235  1.00 45.50      A16S
ATOM   4499  N3  C   A 219      94.746  51.696   8.672  1.00 45.50      A16S
ATOM   4500  C4  C   A 219      93.771  52.595   8.743  1.00 45.50      A16S
ATOM   4501  N4  C   A 219      92.631  52.326   8.115  1.00 45.50      A16S
ATOM   4502  C5  C   A 219      93.919  53.813   9.460  1.00 45.50      A16S
ATOM   4503  C2* C   A 219      98.424  53.862   9.669  1.00 72.18      A16S
ATOM   4504  O2* C   A 219      99.700  53.370  10.036  1.00 72.18      A16S
ATOM   4505  C3* C   A 219      98.280  55.370   9.810  1.00 72.18      A16S
ATOM   4506  O3* C   A 219      99.398  56.079   9.330  1.00 72.18      A16S
ATOM   4507  P   G   A 220      99.288  56.826   7.916  1.00 57.74      A16S
ATOM   4508  O1P G   A 220     100.624  57.436   7.724  1.00 59.91      A16S
ATOM   4509  O2P G   A 220      98.085  57.689   7.910  1.00 59.91      A16S
ATOM   4510  O5* G   A 220      99.024  55.647   6.873  1.00 57.74      A16S
ATOM   4511  C5* G   A 220      99.989  54.609   6.726  1.00 57.74      A16S
ATOM   4512  C4* G   A 220      99.417  53.404   6.014  1.00 57.74      A16S
ATOM   4513  O4* G   A 220      98.200  52.939   6.659  1.00 57.74      A16S
ATOM   4514  C1* G   A 220      97.503  52.085   5.765  1.00 57.74      A16S
ATOM   4515  N9  G   A 220      96.115  52.517   5.632  1.00 59.91      A16S
ATOM   4516  C4  G   A 220      95.169  51.902   4.852  1.00 59.91      A16S
ATOM   4517  N3  G   A 220      95.364  50.797   4.108  1.00 59.91      A16S
ATOM   4518  C2  G   A 220      94.277  50.450   3.445  1.00 59.91      A16S
ATOM   4519  N2  G   A 220      94.301  49.376   2.639  1.00 59.91      A16S
ATOM   4520  N1  G   A 220      93.087  51.128   3.517  1.00 59.91      A16S
ATOM   4521  C6  G   A 220      92.859  52.262   4.284  1.00 59.91      A16S
ATOM   4522  O6  G   A 220      91.737  52.785   4.286  1.00 59.91      A16S
ATOM   4523  C5  G   A 220      94.027  52.656   4.991  1.00 59.91      A16S
ATOM   4524  N7  G   A 220      94.246  53.722   5.848  1.00 59.91      A16S
ATOM   4525  C8  G   A 220      95.496  53.595   6.210  1.00 59.91      A16S
ATOM   4526  C2* G   A 220      98.214  52.187   4.417  1.00 57.74      A16S
ATOM   4527  O2* G   A 220      99.111  51.101   4.278  1.00 57.74      A16S
ATOM   4528  C3* G   A 220      98.978  53.496   4.564  1.00 57.74      A16S
ATOM   4529  O3* G   A 220     100.033  53.512   3.624  1.00 57.74      A16S
ATOM   4530  P   C   A 221      99.726  53.981   2.116  1.00 51.97      A16S
ATOM   4531  O1P C   A 221     101.035  54.029   1.414  1.00 50.02      A16S
ATOM   4532  O2P C   A 221      98.843  55.176   2.125  1.00 50.02      A16S
ATOM   4533  O5* C   A 221      98.853  52.805   1.503  1.00 51.97      A16S
ATOM   4534  C5* C   A 221      99.437  51.539   1.186  1.00 51.97      A16S
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ATOM   4535  C4*  C   A 221      98.506  50.760   0.298  1.00 51.97      A16S
ATOM   4536  O4*  C   A 221      97.266  50.544   1.010  1.00 51.97      A16S
ATOM   4537  C1*  C   A 221      96.186  50.589   0.101  1.00 51.97      A16S
ATOM   4538  N1   C   A 221      95.285  51.679   0.486  1.00 50.02      A16S
ATOM   4539  C6   C   A 221      95.636  52.613   1.422  1.00 50.02      A16S
ATOM   4540  C2   C   A 221      94.052  51.748  -0.147  1.00 50.02      A16S
ATOM   4541  O2   C   A 221      93.758  50.860  -0.970  1.00 50.02      A16S
ATOM   4542  N3   C   A 221      93.209  52.763   0.149  1.00 50.02      A16S
ATOM   4543  C4   C   A 221      93.559  53.669   1.058  1.00 50.02      A16S
ATOM   4544  N4   C   A 221      92.691  54.640   1.325  1.00 50.02      A16S
ATOM   4545  C5   C   A 221      94.811  53.615   1.737  1.00 50.02      A16S
ATOM   4546  C2*  C   A 221      96.746  50.817  -1.301  1.00 51.97      A16S
ATOM   4547  O2*  C   A 221      96.857  49.579  -1.964  1.00 51.97      A16S
ATOM   4548  C3*  C   A 221      98.090  51.458  -0.989  1.00 51.97      A16S
ATOM   4549  O3*  C   A 221      99.032  51.249  -2.032  1.00 51.97      A16S
ATOM   4550  P    U   A 222      99.163  52.331  -3.219  1.00 42.59      A16S
ATOM   4551  O1P  U   A 222     100.315  51.877  -4.058  1.00 42.62      A16S
ATOM   4552  O2P  U   A 222      99.178  53.707  -2.631  1.00 42.62      A16S
ATOM   4553  O5*  U   A 222      97.828  52.125  -4.060  1.00 42.59      A16S
ATOM   4554  C5*  U   A 222      97.628  50.932  -4.821  1.00 42.59      A16S
ATOM   4555  C4*  U   A 222      96.459  51.108  -5.735  1.00 42.59      A16S
ATOM   4556  O4*  U   A 222      95.256  51.223  -4.948  1.00 42.59      A16S
ATOM   4557  C1*  U   A 222      94.389  52.170  -5.534  1.00 42.59      A16S
ATOM   4558  N1   U   A 222      94.132  53.244  -4.561  1.00 42.62      A16S
ATOM   4559  C6   U   A 222      94.969  53.487  -3.489  1.00 42.62      A16S
ATOM   4560  C2   U   A 222      93.000  54.006  -4.755  1.00 42.62      A16S
ATOM   4561  O2   U   A 222      92.246  53.835  -5.691  1.00 42.62      A16S
ATOM   4562  N3   U   A 222      92.782  54.980  -3.815  1.00 42.62      A16S
ATOM   4563  C4   U   A 222      93.564  55.275  -2.725  1.00 42.62      A16S
ATOM   4564  O4   U   A 222      93.248  56.220  -1.999  1.00 42.62      A16S
ATOM   4565  C5   U   A 222      94.729  54.449  -2.586  1.00 42.62      A16S
ATOM   4566  C2*  U   A 222      95.031  52.651  -6.830  1.00 42.59      A16S
ATOM   4567  O2*  U   A 222      94.514  51.881  -7.897  1.00 42.59      A16S
ATOM   4568  C3*  U   A 222      96.501  52.382  -6.549  1.00 42.59      A16S
ATOM   4569  O3*  U   A 222      97.278  52.194  -7.712  1.00 42.59      A16S
ATOM   4570  P    U   A 223      98.105  53.427  -8.315  1.00 49.21      A16S
ATOM   4571  O1P  U   A 223      99.054  52.853  -9.316  1.00 42.91      A16S
ATOM   4572  O2P  U   A 223      98.632  54.237  -7.172  1.00 42.91      A16S
ATOM   4573  O5*  U   A 223      96.981  54.252  -9.079  1.00 49.21      A16S
ATOM   4574  C5*  U   A 223      96.175  53.598 -10.058  1.00 49.21      A16S
ATOM   4575  C4*  U   A 223      95.043  54.484 -10.500  1.00 49.21      A16S
ATOM   4576  O4*  U   A 223      93.974  54.494  -9.526  1.00 49.21      A16S
ATOM   4577  C1*  U   A 223      93.303  55.738  -9.573  1.00 49.21      A16S
ATOM   4578  N1   U   A 223      93.433  56.378  -8.259  1.00 42.91      A16S
ATOM   4579  C6   U   A 223      94.421  56.012  -7.391  1.00 42.91      A16S
ATOM   4580  C2   U   A 223      92.532  57.373  -7.929  1.00 42.91      A16S
ATOM   4581  O2   U   A 223      91.631  57.733  -8.673  1.00 42.91      A16S
ATOM   4582  N3   U   A 223      92.727  57.937  -6.696  1.00 42.91      A16S
ATOM   4583  C4   U   A 223      93.704  57.620  -5.792  1.00 42.91      A16S
ATOM   4584  O4   U   A 223      93.780  58.247  -4.744  1.00 42.91      A16S
ATOM   4585  C5   U   A 223      94.584  56.584  -6.205  1.00 42.91      A16S
ATOM   4586  C2*  U   A 223      93.959  56.563 -10.678  1.00 49.21      A16S
ATOM   4587  O2*  U   A 223      93.230  56.345 -11.872  1.00 49.21      A16S
ATOM   4588  C3*  U   A 223      95.351  55.946 -10.728  1.00 49.21      A16S
ATOM   4589  O3*  U   A 223      96.018  56.152 -11.960  1.00 49.21      A16S
ATOM   4590  P    C   A 224      97.113  57.323 -12.074  1.00 62.01      A16S
ATOM   4591  O1P  C   A 224      97.816  57.114 -13.368  1.00 40.14      A16S
ATOM   4592  O2P  C   A 224      97.907  57.372 -10.819  1.00 40.14      A16S
ATOM   4593  O5*  C   A 224      96.214  58.640 -12.129  1.00 62.01      A16S
ATOM   4594  C5*  C   A 224      95.164  58.771 -13.106  1.00 62.01      A16S
ATOM   4595  C4*  C   A 224      94.224  59.899 -12.745  1.00 62.01      A16S
ATOM   4596  O4*  C   A 224      93.474  59.587 -11.541  1.00 62.01      A16S
ATOM   4597  C1*  C   A 224      93.075  60.792 -10.911  1.00 62.01      A16S
ATOM   4598  N1   C   A 224      93.536  60.803  -9.515  1.00 40.14      A16S
ATOM   4599  C6   C   A 224      94.464  59.915  -9.062  1.00 40.14      A16S
ATOM   4600  C2   C   A 224      93.005  61.772  -8.647  1.00 40.14      A16S
ATOM   4601  O2   C   A 224      92.152  62.571  -9.084  1.00 40.14      A16S
ATOM   4602  N3   C   A 224      93.432  61.819  -7.367  1.00 40.14      A16S
ATOM   4603  C4   C   A 224      94.346  60.958  -6.944  1.00 40.14      A16S
ATOM   4604  N4   C   A 224      94.743  61.052  -5.690  1.00 40.14      A16S
ATOM   4605  C5   C   A 224      94.895  59.961  -7.794  1.00 40.14      A16S
ATOM   4606  C2*  C   A 224      93.695  61.949 -11.688  1.00 62.01      A16S
ATOM   4607  O2*  C   A 224      92.721  62.498 -12.550  1.00 62.01      A16S
ATOM   4608  C3*  C   A 224      94.830  61.252 -12.428  1.00 62.01      A16S
ATOM   4609  O3*  C   A 224      95.225  61.970 -13.578  1.00 62.01      A16S
ATOM   4610  P    C   A 225      96.381  63.080 -13.455  1.00 54.72      A16S
ATOM   4611  O1P  C   A 225      96.756  63.367 -14.867  1.00 42.58      A16S
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ATOM   4612  O2P C   A 225      97.425  62.667 -12.478  1.00 42.58      A16S
ATOM   4613  O5* C   A 225      95.646  64.349 -12.839  1.00 54.72      A16S
ATOM   4614  C5* C   A 225      94.592  64.996 -13.560  1.00 54.72      A16S
ATOM   4615  C4* C   A 225      94.065  66.172 -12.777  1.00 54.72      A16S
ATOM   4616  O4* C   A 225      93.374  65.714 -11.587  1.00 54.72      A16S
ATOM   4617  C1* C   A 225      93.587  66.631 -10.530  1.00 54.72      A16S
ATOM   4618  N1   C   A 225      94.297  65.929  -9.445  1.00 42.58      A16S
ATOM   4619  C6   C   A 225      94.965  64.764  -9.699  1.00 42.58      A16S
ATOM   4620  C2   C   A 225      94.285  66.472  -8.136  1.00 42.58      A16S
ATOM   4621  O2   C   A 225      93.672  67.538  -7.919  1.00 42.58      A16S
ATOM   4622  N3   C   A 225      94.948  65.819  -7.151  1.00 42.58      A16S
ATOM   4623  C4   C   A 225      95.608  64.689  -7.427  1.00 42.58      A16S
ATOM   4624  N4   C   A 225      96.277  64.094  -6.447  1.00 42.58      A16S
ATOM   4625  C5   C   A 225      95.623  64.119  -8.731  1.00 42.58      A16S
ATOM   4626  C2* C   A 225      94.397  67.796 -11.093  1.00 54.72      A16S
ATOM   4627  O2* C   A 225      93.508  68.802 -11.530  1.00 54.72      A16S
ATOM   4628  C3* C   A 225      95.113  67.137 -12.261  1.00 54.72      A16S
ATOM   4629  O3* C   A 225      95.509  68.079 -13.249  1.00 54.72      A16S
ATOM   4630  P    G   A 226      96.990  68.712 -13.190  1.00 60.61      A16S
ATOM   4631  O1P G   A 226      97.005  69.777 -14.243  1.00 50.44      A16S
ATOM   4632  O2P G   A 226      98.005  67.618 -13.247  1.00 50.44      A16S
ATOM   4633  O5* G   A 226      97.054  69.401 -11.751  1.00 60.61      A16S
ATOM   4634  C5* G   A 226      96.351  70.626 -11.526  1.00 60.61      A16S
ATOM   4635  C4* G   A 226      96.359  71.005 -10.070  1.00 60.61      A16S
ATOM   4636  O4* G   A 226      95.927  69.875  -9.278  1.00 60.61      A16S
ATOM   4637  C1* G   A 226      96.314  70.090  -7.939  1.00 60.61      A16S
ATOM   4638  N9   G   A 226      96.967  68.908  -7.397  1.00 50.44      A16S
ATOM   4639  C4   G   A 226      97.359  68.782  -6.095  1.00 50.44      A16S
ATOM   4640  N3   G   A 226      97.171  69.702  -5.138  1.00 50.44      A16S
ATOM   4641  C2   G   A 226      97.673  69.319  -3.991  1.00 50.44      A16S
ATOM   4642  N2   G   A 226      97.559  70.113  -2.932  1.00 50.44      A16S
ATOM   4643  N1   G   A 226      98.320  68.130  -3.795  1.00 50.44      A16S
ATOM   4644  C6   G   A 226      98.531  67.170  -4.765  1.00 50.44      A16S
ATOM   4645  O6   G   A 226      99.134  66.144  -4.478  1.00 50.44      A16S
ATOM   4646  C5   G   A 226      97.984  67.563  -6.009  1.00 50.44      A16S
ATOM   4647  N7   G   A 226      97.967  66.915  -7.238  1.00 50.44      A16S
ATOM   4648  C8   G   A 226      97.346  67.750  -8.032  1.00 50.44      A16S
ATOM   4649  C2* G   A 226      97.299  71.254  -7.930  1.00 60.61      A16S
ATOM   4650  O2* G   A 226      96.636  72.408  -7.465  1.00 60.61      A16S
ATOM   4651  C3* G   A 226      97.672  71.363  -9.399  1.00 60.61      A16S
ATOM   4652  O3* G   A 226      98.140  72.676  -9.655  1.00 60.61      A16S
ATOM   4653  P    G   A 227      99.682  73.037  -9.345  1.00 56.83      A16S
ATOM   4654  O1P G   A 227      99.933  74.401  -9.888  1.00 42.95      A16S
ATOM   4655  O2P G   A 227     100.540  71.899  -9.782  1.00 42.95      A16S
ATOM   4656  O5* G   A 227      99.773  73.122  -7.757  1.00 56.83      A16S
ATOM   4657  C5* G   A 227      99.019  74.102  -7.050  1.00 56.83      A16S
ATOM   4658  C4* G   A 227      99.228  73.965  -5.569  1.00 56.83      A16S
ATOM   4659  O4* G   A 227      98.851  72.629  -5.146  1.00 56.83      A16S
ATOM   4660  C1* G   A 227      99.651  72.240  -4.038  1.00 56.83      A16S
ATOM   4661  N9   G   A 227     100.358  71.003  -4.364  1.00 42.95      A16S
ATOM   4662  C4   G   A 227     101.021  70.197  -3.473  1.00 42.95      A16S
ATOM   4663  N3   G   A 227     101.166  70.430  -2.154  1.00 42.95      A16S
ATOM   4664  C2   G   A 227     101.834  69.462  -1.551  1.00 42.95      A16S
ATOM   4665  N2   G   A 227     102.068  69.542  -0.236  1.00 42.95      A16S
ATOM   4666  N1   G   A 227     102.316  68.350  -2.189  1.00 42.95      A16S
ATOM   4667  C6   G   A 227     102.167  68.082  -3.547  1.00 42.95      A16S
ATOM   4668  O6   G   A 227     102.614  67.026  -4.025  1.00 42.95      A16S
ATOM   4669  C5   G   A 227     101.466  69.127  -4.211  1.00 42.95      A16S
ATOM   4670  N7   G   A 227     101.124  69.273  -5.547  1.00 42.95      A16S
ATOM   4671  C8   G   A 227     100.474  70.401  -5.592  1.00 42.95      A16S
ATOM   4672  C2* G   A 227     100.598  73.393  -3.724  1.00 56.83      A16S
ATOM   4673  O2* G   A 227     100.018  74.161  -2.689  1.00 56.83      A16S
ATOM   4674  C3* G   A 227     100.648  74.117  -5.066  1.00 56.83      A16S
ATOM   4675  O3* G   A 227     101.042  75.472  -4.949  1.00 56.83      A16S
ATOM   4676  P    A   A 228     102.569  75.879  -5.276  1.00 43.10      A16S
ATOM   4677  O1P A   A 228     102.721  77.354  -5.054  1.00 44.96      A16S
ATOM   4678  O2P A   A 228     102.914  75.295  -6.599  1.00 44.96      A16S
ATOM   4679  O5* A   A 228     103.415  75.122  -4.160  1.00 43.10      A16S
ATOM   4680  C5* A   A 228     103.248  75.461  -2.785  1.00 43.10      A16S
ATOM   4681  C4* A   A 228     104.021  74.515  -1.918  1.00 43.10      A16S
ATOM   4682  O4* A   A 228     103.458  73.186  -2.029  1.00 43.10      A16S
ATOM   4683  C1* A   A 228     104.486  72.221  -1.889  1.00 43.10      A16S
ATOM   4684  N9   A   A 228     104.509  71.385  -3.087  1.00 44.96      A16S
ATOM   4685  C4   A   A 228     105.019  70.118  -3.157  1.00 44.96      A16S
ATOM   4686  N3   A   A 228     105.571  69.414  -2.160  1.00 44.96      A16S
ATOM   4687  C2   A   A 228     105.964  68.228  -2.596  1.00 44.96      A16S
ATOM   4688  N1   A   A 228     105.864  67.697  -3.821  1.00 44.96      A16S
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ATOM   4689  C6  A A 228     105.292  68.433  -4.797  1.00 44.96      A16S
ATOM   4690  N6  A A 228     105.167  67.901  -6.017  1.00 44.96      A16S
ATOM   4691  C5  A A 228     104.852  69.717  -4.465  1.00 44.96      A16S
ATOM   4692  N7  A A 228     104.247  70.713  -5.211  1.00 44.96      A16S
ATOM   4693  C8  A A 228     104.060  71.677  -4.348  1.00 44.96      A16S
ATOM   4694  C2* A A 228     105.802  72.968  -1.696  1.00 43.10      A16S
ATOM   4695  O2* A A 228     106.109  73.045  -0.323  1.00 43.10      A16S
ATOM   4696  C3* A A 228     105.471  74.324  -2.298  1.00 43.10      A16S
ATOM   4697  O3* A A 228     106.306  75.353  -1.817  1.00 43.10      A16S
ATOM   4698  P   U A 229     107.607  75.749  -2.666  1.00 42.46      A16S
ATOM   4699  O1P U A 229     108.134  77.064  -2.172  1.00 39.99      A16S
ATOM   4700  O2P U A 229     107.280  75.563  -4.112  1.00 39.99      A16S
ATOM   4701  O5* U A 229     108.656  74.615  -2.305  1.00 42.46      A16S
ATOM   4702  C5* U A 229     108.981  74.323  -0.951  1.00 42.46      A16S
ATOM   4703  C4* U A 229     109.662  72.989  -0.877  1.00 42.46      A16S
ATOM   4704  O4* U A 229     108.732  71.937  -1.221  1.00 42.46      A16S
ATOM   4705  C1* U A 229     109.429  70.886  -1.871  1.00 42.46      A16S
ATOM   4706  N1  U A 229     108.881  70.690  -3.220  1.00 39.99      A16S
ATOM   4707  C6  U A 229     108.191  71.675  -3.880  1.00 39.99      A16S
ATOM   4708  C2  U A 229     109.110  69.474  -3.813  1.00 39.99      A16S
ATOM   4709  O2  U A 229     109.682  68.572  -3.239  1.00 39.99      A16S
ATOM   4710  N3  U A 229     108.647  69.351  -5.098  1.00 39.99      A16S
ATOM   4711  C4  U A 229     107.982  70.302  -5.827  1.00 39.99      A16S
ATOM   4712  O4  U A 229     107.740  70.095  -7.016  1.00 39.99      A16S
ATOM   4713  C5  U A 229     107.742  71.524  -5.128  1.00 39.99      A16S
ATOM   4714  C2* U A 229     110.896  71.284  -1.956  1.00 42.46      A16S
ATOM   4715  O2* U A 229     111.586  70.696  -0.872  1.00 42.46      A16S
ATOM   4716  C3* U A 229     110.796  72.798  -1.863  1.00 42.46      A16S
ATOM   4717  O3* U A 229     111.979  73.410  -1.412  1.00 42.46      A16S
ATOM   4718  P   G A 230     113.115  73.799  -2.470  1.00 41.45      A16S
ATOM   4719  O1P G A 230     114.250  74.319  -1.666  1.00 33.68      A16S
ATOM   4720  O2P G A 230     112.555  74.618  -3.576  1.00 33.68      A16S
ATOM   4721  O5* G A 230     113.559  72.395  -3.048  1.00 41.45      A16S
ATOM   4722  C5* G A 230     114.134  71.434  -2.175  1.00 41.45      A16S
ATOM   4723  C4* G A 230     114.483  70.192  -2.931  1.00 41.45      A16S
ATOM   4724  O4* G A 230     113.284  69.514  -3.390  1.00 41.45      A16S
ATOM   4725  C1* G A 230     113.554  68.867  -4.620  1.00 41.45      A16S
ATOM   4726  N9  G A 230     112.649  69.389  -5.643  1.00 33.68      A16S
ATOM   4727  C4  G A 230     112.317  68.767  -6.822  1.00 33.68      A16S
ATOM   4728  N3  G A 230     112.751  67.561  -7.225  1.00 33.68      A16S
ATOM   4729  C2  G A 230     112.269  67.235  -8.405  1.00 33.68      A16S
ATOM   4730  N2  G A 230     112.578  66.061  -8.944  1.00 33.68      A16S
ATOM   4731  N1  G A 230     111.441  68.034  -9.144  1.00 33.68      A16S
ATOM   4732  C6  G A 230     110.979  69.278  -8.749  1.00 33.68      A16S
ATOM   4733  O6  G A 230     110.234  69.918  -9.494  1.00 33.68      A16S
ATOM   4734  C5  G A 230     111.473  69.635  -7.473  1.00 33.68      A16S
ATOM   4735  N7  G A 230     111.257  70.773  -6.712  1.00 33.68      A16S
ATOM   4736  C8  G A 230     111.976  70.586  -5.637  1.00 33.68      A16S
ATOM   4737  C2* G A 230     115.016  69.144  -4.966  1.00 41.45      A16S
ATOM   4738  O2* G A 230     115.838  68.103  -4.483  1.00 41.45      A16S
ATOM   4739  C3* G A 230     115.270  70.425  -4.198  1.00 41.45      A16S
ATOM   4740  O3* G A 230     116.641  70.653  -3.960  1.00 41.45      A16S
ATOM   4741  P   G A 231     117.541  71.241  -5.148  1.00 43.00      A16S
ATOM   4742  O1P G A 231     118.853  71.646  -4.558  1.00 44.01      A16S
ATOM   4743  O2P G A 231     116.737  72.239  -5.918  1.00 44.01      A16S
ATOM   4744  O5* G A 231     117.730  69.964  -6.077  1.00 43.00      A16S
ATOM   4745  C5* G A 231     117.842  70.104  -7.492  1.00 43.00      A16S
ATOM   4746  C4* G A 231     117.469  68.819  -8.179  1.00 43.00      A16S
ATOM   4747  O4* G A 231     116.043  68.601  -8.071  1.00 43.00      A16S
ATOM   4748  C1* G A 231     115.542  68.054  -9.277  1.00 43.00      A16S
ATOM   4749  N9  G A 231     114.584  69.003  -9.834  1.00 44.01      A16S
ATOM   4750  C4  G A 231     113.930  68.909 -11.040  1.00 44.01      A16S
ATOM   4751  N3  G A 231     114.015  67.890 -11.907  1.00 44.01      A16S
ATOM   4752  C2  G A 231     113.326  68.122 -13.007  1.00 44.01      A16S
ATOM   4753  N2  G A 231     113.327  67.223 -13.985  1.00 44.01      A16S
ATOM   4754  N1  G A 231     112.598  69.254 -13.235  1.00 44.01      A16S
ATOM   4755  C6  G A 231     112.496  70.322 -12.356  1.00 44.01      A16S
ATOM   4756  O6  G A 231     111.830  71.325 -12.670  1.00 44.01      A16S
ATOM   4757  C5  G A 231     113.232  70.086 -11.169  1.00 44.01      A16S
ATOM   4758  N7  G A 231     113.400  70.882 -10.049  1.00 44.01      A16S
ATOM   4759  C8  G A 231     114.198  70.193  -9.280  1.00 44.01      A16S
ATOM   4760  C2* G A 231     116.736  67.831 -10.206  1.00 43.00      A16S
ATOM   4761  O2* G A 231     117.171  66.490 -10.093  1.00 43.00      A16S
ATOM   4762  C3* G A 231     117.732  68.848  -9.668  1.00 43.00      A16S
ATOM   4763  O3* G A 231     119.094  68.531  -9.918  1.00 43.00      A16S
ATOM   4764  P   G A 232     119.825  69.141 -11.210  1.00 38.17      A16S
ATOM   4765  O1P G A 232     121.254  68.712 -11.133  1.00 38.88      A16S
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ATOM   4766  O2P G   A 232     119.499  70.589 -11.319  1.00 38.88      A16S
ATOM   4767  O5* G   A 232     119.113  68.350 -12.396  1.00 38.17      A16S
ATOM   4768  C5* G   A 232     119.174  66.915 -12.436  1.00 38.17      A16S
ATOM   4769  C4* G   A 232     118.657  66.410 -13.748  1.00 38.17      A16S
ATOM   4770  O4* G   A 232     117.225  66.543 -13.788  1.00 38.17      A16S
ATOM   4771  C1* G   A 232     116.817  66.886 -15.092  1.00 38.17      A16S
ATOM   4772  N9  G   A 232     116.147  68.176 -15.017  1.00 38.88      A16S
ATOM   4773  C4  G   A 232     115.383  68.759 -15.996  1.00 38.88      A16S
ATOM   4774  N3  G   A 232     115.115  68.236 -17.209  1.00 38.88      A16S
ATOM   4775  C2  G   A 232     114.360  69.035 -17.927  1.00 38.88      A16S
ATOM   4776  N2  G   A 232     113.987  68.675 -19.162  1.00 38.88      A16S
ATOM   4777  N1  G   A 232     113.908  70.249 -17.492  1.00 38.88      A16S
ATOM   4778  C6  G   A 232     114.177  70.803 -16.253  1.00 38.88      A16S
ATOM   4779  O6  G   A 232     113.719  71.920 -15.960  1.00 38.88      A16S
ATOM   4780  C5  G   A 232     114.981  69.956 -15.475  1.00 38.88      A16S
ATOM   4781  N7  G   A 232     115.480  70.125 -14.196  1.00 38.88      A16S
ATOM   4782  C8  G   A 232     116.164  69.046 -13.967  1.00 38.88      A16S
ATOM   4783  C2* G   A 232     118.064  66.941 -15.971  1.00 38.17      A16S
ATOM   4784  O2* G   A 232     118.256  65.706 -16.599  1.00 38.17      A16S
ATOM   4785  C3* G   A 232     119.145  67.184 -14.946  1.00 38.17      A16S
ATOM   4786  O3* G   A 232     120.376  66.689 -15.387  1.00 38.17      A16S
ATOM   4787  P   C   A 233     121.432  67.701 -16.015  1.00 36.43      A16S
ATOM   4788  O1P C   A 233     122.670  66.955 -16.355  1.00 31.02      A16S
ATOM   4789  O2P C   A 233     121.496  68.858 -15.071  1.00 31.02      A16S
ATOM   4790  O5* C   A 233     120.713  68.169 -17.356  1.00 36.43      A16S
ATOM   4791  C5* C   A 233     120.487  67.238 -18.404  1.00 36.43      A16S
ATOM   4792  C4* C   A 233     119.575  67.821 -19.450  1.00 36.43      A16S
ATOM   4793  O4* C   A 233     118.268  68.082 -18.883  1.00 36.43      A16S
ATOM   4794  C1* C   A 233     117.647  69.144 -19.591  1.00 36.43      A16S
ATOM   4795  N1  C   A 233     117.418  70.262 -18.659  1.00 31.02      A16S
ATOM   4796  C6  C   A 233     118.086  70.324 -17.470  1.00 31.02      A16S
ATOM   4797  C2  C   A 233     116.520  71.279 -19.016  1.00 31.02      A16S
ATOM   4798  O2  C   A 233     115.894  71.191 -20.080  1.00 31.02      A16S
ATOM   4799  N3  C   A 233     116.360  72.328 -18.188  1.00 31.02      A16S
ATOM   4800  C4  C   A 233     117.037  72.382 -17.041  1.00 31.02      A16S
ATOM   4801  N4  C   A 233     116.864  73.443 -16.265  1.00 31.02      A16S
ATOM   4802  C5  C   A 233     117.923  71.355 -16.642  1.00 31.02      A16S
ATOM   4803  C2* C   A 233     118.620  69.571 -20.683  1.00 36.43      A16S
ATOM   4804  O2* C   A 233     118.330  68.840 -21.853  1.00 36.43      A16S
ATOM   4805  C3* C   A 233     119.946  69.147 -20.078  1.00 36.43      A16S
ATOM   4806  O3* C   A 233     120.966  69.057 -21.053  1.00 36.43      A16S
ATOM   4807  P   C   A 234     122.025  70.265 -21.189  1.00 32.27      A16S
ATOM   4808  O1P C   A 234     123.115  69.812 -22.085  1.00 26.18      A16S
ATOM   4809  O2P C   A 234     122.350  70.717 -19.823  1.00 26.18      A16S
ATOM   4810  O5* C   A 234     121.200  71.406 -21.924  1.00 32.27      A16S
ATOM   4811  C5* C   A 234     120.546  71.116 -23.173  1.00 32.27      A16S
ATOM   4812  C4* C   A 234     119.781  72.319 -23.666  1.00 32.27      A16S
ATOM   4813  O4* C   A 234     118.640  72.569 -22.812  1.00 32.27      A16S
ATOM   4814  C1* C   A 234     118.456  73.961 -22.669  1.00 32.27      A16S
ATOM   4815  N1  C   A 234     118.641  74.283 -21.252  1.00 26.18      A16S
ATOM   4816  C6  C   A 234     119.175  73.367 -20.394  1.00 26.18      A16S
ATOM   4817  C2  C   A 234     118.266  75.531 -20.794  1.00 26.18      A16S
ATOM   4818  O2  C   A 234     117.788  76.338 -21.599  1.00 26.18      A16S
ATOM   4819  N3  C   A 234     118.437  75.841 -19.490  1.00 26.18      A16S
ATOM   4820  C4  C   A 234     118.977  74.949 -18.665  1.00 26.18      A16S
ATOM   4821  N4  C   A 234     119.175  75.303 -17.405  1.00 26.18      A16S
ATOM   4822  C5  C   A 234     119.354  73.655 -19.103  1.00 26.18      A16S
ATOM   4823  C2* C   A 234     119.467  74.659 -23.578  1.00 32.27      A16S
ATOM   4824  O2* C   A 234     118.905  74.847 -24.855  1.00 32.27      A16S
ATOM   4825  C3* C   A 234     120.562  73.619 -23.662  1.00 32.27      A16S
ATOM   4826  O3* C   A 234     121.331  73.755 -24.837  1.00 32.27      A16S
ATOM   4827  P   C   A 235     122.668  74.625 -24.791  1.00 33.44      A16S
ATOM   4828  O1P C   A 235     123.334  74.375 -26.092  1.00 30.20      A16S
ATOM   4829  O2P C   A 235     123.404  74.326 -23.538  1.00 30.20      A16S
ATOM   4830  O5* C   A 235     122.108  76.123 -24.725  1.00 33.44      A16S
ATOM   4831  C5* C   A 235     121.332  76.674 -25.824  1.00 33.44      A16S
ATOM   4832  C4* C   A 235     120.774  78.040 -25.470  1.00 33.44      A16S
ATOM   4833  O4* C   A 235     119.847  77.921 -24.364  1.00 33.44      A16S
ATOM   4834  C1* C   A 235     119.898  79.089 -23.568  1.00 33.44      A16S
ATOM   4835  N1  C   A 235     120.369  78.734 -22.227  1.00 30.20      A16S
ATOM   4836  C6  C   A 235     120.989  77.545 -21.979  1.00 30.20      A16S
ATOM   4837  C2  C   A 235     120.185  79.654 -21.211  1.00 30.20      A16S
ATOM   4838  O2  C   A 235     119.636  80.728 -21.483  1.00 30.20      A16S
ATOM   4839  N3  C   A 235     120.614  79.365 -19.966  1.00 30.20      A16S
ATOM   4840  C4  C   A 235     121.217  78.201 -19.730  1.00 30.20      A16S
ATOM   4841  N4  C   A 235     121.623  77.943 -18.479  1.00 30.20      A16S
ATOM   4842  C5  C   A 235     121.430  77.243 -20.760  1.00 30.20      A16S
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ATOM   4843  C2* C   A 235     120.882  80.054 -24.217  1.00 33.44      A16S
ATOM   4844  O2* C   A 235     120.150  80.984 -24.987  1.00 33.44      A16S
ATOM   4845  C3* C   A 235     121.757  79.102 -25.016  1.00 33.44      A16S
ATOM   4846  O3* C   A 235     122.334  79.758 -26.110  1.00 33.44      A16S
ATOM   4847  P   G   A 236     123.769  80.458 -25.950  1.00 39.02      A16S
ATOM   4848  O1P G   A 236     124.287  80.591 -27.347  1.00 26.20      A16S
ATOM   4849  O2P G   A 236     124.586  79.754 -24.929  1.00 26.20      A16S
ATOM   4850  O5* G   A 236     123.431  81.906 -25.383  1.00 39.02      A16S
ATOM   4851  C5* G   A 236     122.866  82.908 -26.231  1.00 39.02      A16S
ATOM   4852  C4* G   A 236     122.802  84.220 -25.503  1.00 39.02      A16S
ATOM   4853  O4* G   A 236     121.906  84.116 -24.372  1.00 39.02      A16S
ATOM   4854  C1* G   A 236     122.398  84.899 -23.293  1.00 39.02      A16S
ATOM   4855  N9  G   A 236     122.696  83.996 -22.186  1.00 26.20      A16S
ATOM   4856  C4  G   A 236     122.847  84.322 -20.866  1.00 26.20      A16S
ATOM   4857  N3  G   A 236     122.753  85.553 -20.340  1.00 26.20      A16S
ATOM   4858  C2  G   A 236     122.908  85.533 -19.031  1.00 26.20      A16S
ATOM   4859  N2  G   A 236     122.800  86.663 -18.312  1.00 26.20      A16S
ATOM   4860  N1  G   A 236     123.164  84.402 -18.313  1.00 26.20      A16S
ATOM   4861  C6  G   A 236     123.275  83.131 -18.840  1.00 26.20      A16S
ATOM   4862  O6  G   A 236     123.505  82.173 -18.094  1.00 26.20      A16S
ATOM   4863  C5  G   A 236     123.095  83.133 -20.222  1.00 26.20      A16S
ATOM   4864  N7  G   A 236     123.119  82.085 -21.117  1.00 26.20      A16S
ATOM   4865  C8  G   A 236     122.879  82.641 -22.269  1.00 26.20      A16S
ATOM   4866  C2* G   A 236     123.647  85.622 -23.794  1.00 39.02      A16S
ATOM   4867  O2* G   A 236     123.291  86.903 -24.287  1.00 39.02      A16S
ATOM   4868  C3* G   A 236     124.109  84.681 -24.894  1.00 39.02      A16S
ATOM   4869  O3* G   A 236     124.921  85.320 -25.849  1.00 39.02      A16S
ATOM   4870  P   C   A 237     126.485  85.005 -25.872  1.00 34.21      A16S
ATOM   4871  O1P C   A 237     127.004  85.576 -27.138  1.00 26.47      A16S
ATOM   4872  O2P C   A 237     126.678  83.574 -25.596  1.00 26.47      A16S
ATOM   4873  O5* C   A 237     127.022  85.806 -24.609  1.00 34.21      A16S
ATOM   4874  C5* C   A 237     126.740  87.197 -24.471  1.00 34.21      A16S
ATOM   4875  C4* C   A 237     126.935  87.628 -23.050  1.00 34.21      A16S
ATOM   4876  O4* C   A 237     125.907  87.051 -22.218  1.00 34.21      A16S
ATOM   4877  C1* C   A 237     126.422  86.818 -20.920  1.00 34.21      A16S
ATOM   4878  N1  C   A 237     126.350  85.378 -20.615  1.00 26.47      A16S
ATOM   4879  C6  C   A 237     126.337  84.441 -21.609  1.00 26.47      A16S
ATOM   4880  C2  C   A 237     126.326  84.981 -19.277  1.00 26.47      A16S
ATOM   4881  O2  C   A 237     126.282  85.844 -18.397  1.00 26.47      A16S
ATOM   4882  N3  C   A 237     126.342  83.667 -18.975  1.00 26.47      A16S
ATOM   4883  C4  C   A 237     126.350  82.760 -19.948  1.00 26.47      A16S
ATOM   4884  N4  C   A 237     126.365  81.472 -19.597  1.00 26.47      A16S
ATOM   4885  C5  C   A 237     126.338  83.132 -21.322  1.00 26.47      A16S
ATOM   4886  C2* C   A 237     127.869  87.300 -20.912  1.00 34.21      A16S
ATOM   4887  O2* C   A 237     127.903  88.639 -20.467  1.00 34.21      A16S
ATOM   4888  C3* C   A 237     128.225  87.196 -22.382  1.00 34.21      A16S
ATOM   4889  O3* C   A 237     129.301  88.041 -22.702  1.00 34.21      A16S
ATOM   4890  P   G   A 238     130.767  87.420 -22.832  1.00 32.27      A16S
ATOM   4891  O1P G   A 238     131.595  88.491 -23.455  1.00 35.67      A16S
ATOM   4892  O2P G   A 238     130.646  86.106 -23.491  1.00 35.67      A16S
ATOM   4893  O5* G   A 238     131.241  87.225 -21.327  1.00 32.27      A16S
ATOM   4894  C5* G   A 238     131.399  88.372 -20.494  1.00 32.27      A16S
ATOM   4895  C4* G   A 238     131.499  87.975 -19.059  1.00 32.27      A16S
ATOM   4896  O4* G   A 238     130.297  87.273 -18.669  1.00 32.27      A16S
ATOM   4897  C1* G   A 238     130.610  86.292 -17.694  1.00 32.27      A16S
ATOM   4898  N9  G   A 238     130.207  84.978 -18.193  1.00 35.67      A16S
ATOM   4899  C4  G   A 238     130.146  83.823 -17.459  1.00 35.67      A16S
ATOM   4900  N3  G   A 238     130.409  83.711 -16.147  1.00 35.67      A16S
ATOM   4901  C2  G   A 238     130.293  82.471 -15.731  1.00 35.67      A16S
ATOM   4902  N2  G   A 238     130.527  82.184 -14.459  1.00 35.67      A16S
ATOM   4903  N1  G   A 238     129.945  81.424 -16.530  1.00 35.67      A16S
ATOM   4904  C6  G   A 238     129.673  81.513 -17.888  1.00 35.67      A16S
ATOM   4905  O6  G   A 238     129.387  80.493 -18.532  1.00 35.67      A16S
ATOM   4906  C5  G   A 238     129.787  82.838 -18.351  1.00 35.67      A16S
ATOM   4907  N7  G   A 238     129.597  83.365 -19.620  1.00 35.67      A16S
ATOM   4908  C8  G   A 238     129.850  84.636 -19.478  1.00 35.67      A16S
ATOM   4909  C2* G   A 238     132.119  86.375 -17.443  1.00 32.27      A16S
ATOM   4910  O2* G   A 238     132.362  87.192 -16.315  1.00 32.27      A16S
ATOM   4911  C3* G   A 238     132.612  87.013 -18.734  1.00 32.27      A16S
ATOM   4912  O3* G   A 238     133.837  87.701 -18.582  1.00 32.27      A16S
ATOM   4913  P   U   A 239     135.159  87.148 -19.317  1.00 38.92      A16S
ATOM   4914  O1P U   A 239     136.129  88.273 -19.289  1.00 49.99      A16S
ATOM   4915  O2P U   A 239     134.798  86.507 -20.610  1.00 49.99      A16S
ATOM   4916  O5* U   A 239     135.690  86.001 -18.356  1.00 38.92      A16S
ATOM   4917  C5* U   A 239     136.017  86.289 -16.996  1.00 38.92      A16S
ATOM   4918  C4* U   A 239     136.158  85.013 -16.213  1.00 38.92      A16S
ATOM   4919  O4* U   A 239     134.861  84.386 -16.019  1.00 38.92      A16S
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ATOM   4920  C1* U   A 239     135.033  82.983 -15.940  1.00 38.92      A16S
ATOM   4921  N1  U   A 239     134.176  82.319 -16.935  1.00 49.99      A16S
ATOM   4922  C6  U   A 239     133.920  82.873 -18.168  1.00 49.99      A16S
ATOM   4923  C2  U   A 239     133.669  81.082 -16.599  1.00 49.99      A16S
ATOM   4924  O2  U   A 239     133.818  80.580 -15.492  1.00 49.99      A16S
ATOM   4925  N3  U   A 239     132.975  80.450 -17.599  1.00 49.99      A16S
ATOM   4926  C4  U   A 239     132.722  80.926 -18.868  1.00 49.99      A16S
ATOM   4927  O4  U   A 239     132.151  80.194 -19.692  1.00 49.99      A16S
ATOM   4928  C5  U   A 239     133.232  82.236 -19.118  1.00 49.99      A16S
ATOM   4929  C2* U   A 239     136.521  82.675 -16.167  1.00 38.92      A16S
ATOM   4930  O2* U   A 239     137.183  82.489 -14.933  1.00 38.92      A16S
ATOM   4931  C3* U   A 239     137.004  83.936 -16.865  1.00 38.92      A16S
ATOM   4932  O3* U   A 239     138.396  84.153 -16.677  1.00 38.92      A16S
ATOM   4933  P   C   A 240     139.353  84.318 -17.962  1.00 52.59      A16S
ATOM   4934  O1P C   A 240     139.304  85.746 -18.394  1.00 43.01      A16S
ATOM   4935  O2P C   A 240     139.011  83.249 -18.937  1.00 43.01      A16S
ATOM   4936  O5* C   A 240     140.807  84.036 -17.388  1.00 52.59      A16S
ATOM   4937  C5* C   A 240     141.345  84.863 -16.366  1.00 52.59      A16S
ATOM   4938  C4* C   A 240     142.645  84.304 -15.875  1.00 52.59      A16S
ATOM   4939  O4* C   A 240     142.429  82.964 -15.381  1.00 52.59      A16S
ATOM   4940  C1* C   A 240     143.602  82.197 -15.581  1.00 52.59      A16S
ATOM   4941  N1  C   A 240     143.303  81.058 -16.452  1.00 43.01      A16S
ATOM   4942  C6  C   A 240     142.207  81.044 -17.259  1.00 43.01      A16S
ATOM   4943  C2  C   A 240     144.178  79.988 -16.443  1.00 43.01      A16S
ATOM   4944  O2  C   A 240     145.175  80.041 -15.702  1.00 43.01      A16S
ATOM   4945  N3  C   A 240     143.932  78.926 -17.235  1.00 43.01      A16S
ATOM   4946  C4  C   A 240     142.857  78.917 -18.012  1.00 43.01      A16S
ATOM   4947  N4  C   A 240     142.638  77.843 -18.760  1.00 43.01      A16S
ATOM   4948  C5  C   A 240     141.951  80.005 -18.050  1.00 43.01      A16S
ATOM   4949  C2* C   A 240     144.634  83.096 -16.242  1.00 52.59      A16S
ATOM   4950  O2* C   A 240     145.433  83.661 -15.229  1.00 52.59      A16S
ATOM   4951  C3* C   A 240     143.746  84.131 -16.901  1.00 52.59      A16S
ATOM   4952  O3* C   A 240     144.461  85.316 -17.131  1.00 52.59      A16S
ATOM   4953  P   C   A 241     145.101  85.572 -18.576  1.00 42.83      A16S
ATOM   4954  O1P C   A 241     145.522  86.998 -18.572  1.00 33.99      A16S
ATOM   4955  O2P C   A 241     144.171  85.068 -19.618  1.00 33.99      A16S
ATOM   4956  O5* C   A 241     146.398  84.663 -18.607  1.00 42.83      A16S
ATOM   4957  C5* C   A 241     147.530  84.990 -17.795  1.00 42.83      A16S
ATOM   4958  C4* C   A 241     148.634  83.992 -18.014  1.00 42.83      A16S
ATOM   4959  O4* C   A 241     148.211  82.672 -17.585  1.00 42.83      A16S
ATOM   4960  C1* C   A 241     148.755  81.694 -18.446  1.00 42.83      A16S
ATOM   4961  N1  C   A 241     147.652  80.982 -19.110  1.00 33.99      A16S
ATOM   4962  C6  C   A 241     146.362  81.422 -19.023  1.00 33.99      A16S
ATOM   4963  C2  C   A 241     147.949  79.842 -19.837  1.00 33.99      A16S
ATOM   4964  O2  C   A 241     149.128  79.459 -19.886  1.00 33.99      A16S
ATOM   4965  N3  C   A 241     146.954  79.178 -20.470  1.00 33.99      A16S
ATOM   4966  C4  C   A 241     145.704  79.614 -20.383  1.00 33.99      A16S
ATOM   4967  N4  C   A 241     144.765  78.931 -21.028  1.00 33.99      A16S
ATOM   4968  C5  C   A 241     145.365  80.769 -19.637  1.00 33.99      A16S
ATOM   4969  C2* C   A 241     149.657  82.419 -19.441  1.00 42.83      A16S
ATOM   4970  O2* C   A 241     150.967  82.451 -18.909  1.00 42.83      A16S
ATOM   4971  C3* C   A 241     149.032  83.800 -19.456  1.00 42.83      A16S
ATOM   4972  O3* C   A 241     149.935  84.793 -19.845  1.00 42.83      A16S
ATOM   4973  P   C   A 242     149.964  85.259 -21.373  1.00 38.84      A16S
ATOM   4974  O1P C   A 242     150.866  86.459 -21.420  1.00 37.23      A16S
ATOM   4975  O2P C   A 242     148.564  85.358 -21.883  1.00 37.23      A16S
ATOM   4976  O5* C   A 242     150.657  84.035 -22.115  1.00 38.84      A16S
ATOM   4977  C5* C   A 242     152.022  83.706 -21.854  1.00 38.84      A16S
ATOM   4978  C4* C   A 242     152.450  82.559 -22.722  1.00 38.84      A16S
ATOM   4979  O4* C   A 242     151.810  81.339 -22.289  1.00 38.84      A16S
ATOM   4980  C1* C   A 242     151.554  80.514 -23.406  1.00 38.84      A16S
ATOM   4981  N1  C   A 242     150.112  80.205 -23.446  1.00 37.23      A16S
ATOM   4982  C6  C   A 242     149.202  81.051 -22.886  1.00 37.23      A16S
ATOM   4983  C2  C   A 242     149.686  79.049 -24.091  1.00 37.23      A16S
ATOM   4984  O2  C   A 242     150.534  78.249 -24.509  1.00 37.23      A16S
ATOM   4985  N3  C   A 242     148.363  78.820 -24.229  1.00 37.23      A16S
ATOM   4986  C4  C   A 242     147.485  79.678 -23.713  1.00 37.23      A16S
ATOM   4987  N4  C   A 242     146.191  79.443 -23.893  1.00 37.23      A16S
ATOM   4988  C5  C   A 242     147.894  80.824 -22.995  1.00 37.23      A16S
ATOM   4989  C2* C   A 242     152.048  81.254 -24.653  1.00 38.84      A16S
ATOM   4990  O2* C   A 242     153.348  80.832 -24.994  1.00 38.84      A16S
ATOM   4991  C3* C   A 242     152.081  82.694 -24.180  1.00 38.84      A16S
ATOM   4992  O3* C   A 242     153.077  83.415 -24.864  1.00 38.84      A16S
ATOM   4993  P   A   A 243     152.663  84.362 -26.075  1.00 38.12      A16S
ATOM   4994  O1P A   A 243     153.920  84.909 -26.622  1.00 44.44      A16S
ATOM   4995  O2P A   A 243     151.599  85.280 -25.609  1.00 44.44      A16S
ATOM   4996  O5* A   A 243     152.058  83.361 -27.142  1.00 38.12      A16S
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ATOM   4997  C5* A   A 243     152.800  82.218 -27.532  1.00 38.12       A16S
ATOM   4998  C4* A   A 243     152.629  81.970 -28.996  1.00 38.12       A16S
ATOM   4999  O4* A   A 243     151.304  81.442 -29.229  1.00 38.12       A16S
ATOM   5000  C1* A   A 243     150.755  82.013 -30.394  1.00 38.12       A16S
ATOM   5001  N9  A   A 243     149.299  81.913 -30.294  1.00 44.44       A16S
ATOM   5002  C4  A   A 243     148.552  80.877 -30.799  1.00 44.44       A16S
ATOM   5003  N3  A   A 243     148.998  79.804 -31.460  1.00 44.44       A16S
ATOM   5004  C2  A   A 243     147.997  79.010 -31.790  1.00 44.44       A16S
ATOM   5005  N1  A   A 243     146.700  79.151 -31.561  1.00 44.44       A16S
ATOM   5006  C6  A   A 243     146.281  80.235 -30.896  1.00 44.44       A16S
ATOM   5007  N6  A   A 243     144.982  80.369 -30.671  1.00 44.44       A16S
ATOM   5008  C5  A   A 243     147.246  81.160 -30.481  1.00 44.44       A16S
ATOM   5009  N7  A   A 243     147.159  82.355 -29.781  1.00 44.44       A16S
ATOM   5010  C8  A   A 243     148.403  82.762 -29.698  1.00 44.44       A16S
ATOM   5011  C2* A   A 243     151.345  83.413 -30.499  1.00 38.12       A16S
ATOM   5012  O2* A   A 243     151.321  83.745 -31.866  1.00 38.12       A16S
ATOM   5013  C3* A   A 243     152.736  83.180 -29.903  1.00 38.12       A16S
ATOM   5014  O3* A   A 243     154.004  83.791 -30.222  1.00 38.12       A16S
ATOM   5015  P   U   A 244     154.940  83.218 -31.402  1.00 39.54       A16S
ATOM   5016  O1P U   A 244     156.194  83.976 -31.195  1.00 44.06       A16S
ATOM   5017  O2P U   A 244     154.275  83.230 -32.717  1.00 44.06       A16S
ATOM   5018  O5* U   A 244     155.263  81.724 -31.003  1.00 39.54       A16S
ATOM   5019  C5* U   A 244     155.603  81.454 -29.672  1.00 39.54       A16S
ATOM   5020  C4* U   A 244     156.114  80.065 -29.518  1.00 39.54       A16S
ATOM   5021  O4* U   A 244     157.450  79.981 -30.079  1.00 39.54       A16S
ATOM   5022  C1* U   A 244     158.388  79.720 -29.050  1.00 39.54       A16S
ATOM   5023  N1  U   A 244     159.619  80.485 -29.312  1.00 44.06       A16S
ATOM   5024  C6  U   A 244     159.579  81.721 -29.906  1.00 44.06       A16S
ATOM   5025  C2  U   A 244     160.817  79.927 -28.934  1.00 44.06       A16S
ATOM   5026  O2  U   A 244     160.902  78.834 -28.413  1.00 44.06       A16S
ATOM   5027  N3  U   A 244     161.921  80.698 -29.187  1.00 44.06       A16S
ATOM   5028  C4  U   A 244     161.947  81.945 -29.768  1.00 44.06       A16S
ATOM   5029  O4  U   A 244     163.024  82.511 -29.952  1.00 44.06       A16S
ATOM   5030  C5  U   A 244     160.671  82.449 -30.135  1.00 44.06       A16S
ATOM   5031  C2* U   A 244     157.705  80.127 -27.749  1.00 39.54       A16S
ATOM   5032  O2* U   A 244     158.274  79.507 -26.627  1.00 39.54       A16S
ATOM   5033  C3* U   A 244     156.248  79.775 -28.038  1.00 39.54       A16S
ATOM   5034  O3* U   A 244     155.854  78.425 -27.793  1.00 39.54       A16S
ATOM   5035  P   C   A 245     154.286  78.092 -27.586  1.00 41.35       A16S
ATOM   5036  O1P C   A 245     153.638  79.338 -27.093  1.00 42.26       A16S
ATOM   5037  O2P C   A 245     154.137  76.833 -26.801  1.00 42.26       A16S
ATOM   5038  O5* C   A 245     153.741  77.853 -29.065  1.00 41.35       A16S
ATOM   5039  C5* C   A 245     154.010  76.633 -29.744  1.00 41.35       A16S
ATOM   5040  C4* C   A 245     152.729  76.012 -30.237  1.00 41.35       A16S
ATOM   5041  O4* C   A 245     151.775  75.956 -29.152  1.00 41.35       A16S
ATOM   5042  C1* C   A 245     150.464  75.988 -29.683  1.00 41.35       A16S
ATOM   5043  N1  C   A 245     149.706  77.086 -29.063  1.00 42.26       A16S
ATOM   5044  C6  C   A 245     150.347  78.135 -28.478  1.00 42.26       A16S
ATOM   5045  C2  C   A 245     148.297  77.035 -29.081  1.00 42.26       A16S
ATOM   5046  O2  C   A 245     147.722  76.076 -29.625  1.00 42.26       A16S
ATOM   5047  N3  C   A 245     147.604  78.025 -28.507  1.00 42.26       A16S
ATOM   5048  C4  C   A 245     148.243  79.035 -27.928  1.00 42.26       A16S
ATOM   5049  N4  C   A 245     147.507  79.977 -27.346  1.00 42.26       A16S
ATOM   5050  C5  C   A 245     149.662  79.121 -27.908  1.00 42.26       A16S
ATOM   5051  C2* C   A 245     150.577  76.137 -31.197  1.00 41.35       A16S
ATOM   5052  O2* C   A 245     150.476  74.853 -31.771  1.00 41.35       A16S
ATOM   5053  C3* C   A 245     151.974  76.711 -31.354  1.00 41.35       A16S
ATOM   5054  O3* C   A 245     152.481  76.347 -32.623  1.00 41.35       A16S
ATOM   5055  P   A   A 246     152.352  77.365 -33.858  1.00 58.10       A16S
ATOM   5056  O1P A   A 246     153.030  76.726 -35.011  1.00 40.07       A16S
ATOM   5057  O2P A   A 246     152.753  78.723 -33.436  1.00 40.07       A16S
ATOM   5058  O5* A   A 246     150.798  77.398 -34.188  1.00 58.10       A16S
ATOM   5059  C5* A   A 246     150.127  76.201 -34.591  1.00 58.10       A16S
ATOM   5060  C4* A   A 246     149.159  76.477 -35.718  1.00 58.10       A16S
ATOM   5061  O4* A   A 246     147.975  77.151 -35.221  1.00 58.10       A16S
ATOM   5062  C1* A   A 246     147.643  78.188 -36.102  1.00 58.10       A16S
ATOM   5063  N9  A   A 246     146.916  79.220 -35.376  1.00 40.07       A16S
ATOM   5064  C4  A   A 246     145.558  79.397 -35.430  1.00 40.07       A16S
ATOM   5065  N3  A   A 246     144.669  78.659 -36.113  1.00 40.07       A16S
ATOM   5066  C2  A   A 246     143.446  79.140 -35.953  1.00 40.07       A16S
ATOM   5067  N1  A   A 246     143.040  80.191 -35.240  1.00 40.07       A16S
ATOM   5068  C6  A   A 246     143.959  80.907 -34.558  1.00 40.07       A16S
ATOM   5069  N6  A   A 246     143.550  81.961 -33.839  1.00 40.07       A16S
ATOM   5070  C5  A   A 246     145.293  80.498 -34.647  1.00 40.07       A16S
ATOM   5071  N7  A   A 246     146.460  80.991 -34.085  1.00 40.07       A16S
ATOM   5072  C8  A   A 246     147.391  80.197 -34.548  1.00 40.07       A16S
ATOM   5073  C2* A   A 246     148.960  78.625 -36.729  1.00 58.10       A16S
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ATOM   5074  O2*  A   A 246     148.647  79.276 -37.936  1.00 58.10      A16S
ATOM   5075  C3*  A   A 246     149.650  77.278 -36.920  1.00 58.10      A16S
ATOM   5076  O3*  A   A 246     149.062  76.683 -38.057  1.00 58.10      A16S
ATOM   5077  P    G   A 247     149.979  76.070 -39.219  1.00 45.35      A16S
ATOM   5078  O1P  G   A 247     150.701  74.896 -38.652  1.00 37.14      A16S
ATOM   5079  O2P  G   A 247     150.748  77.170 -39.858  1.00 37.14      A16S
ATOM   5080  O5*  G   A 247     148.887  75.588 -40.273  1.00 45.35      A16S
ATOM   5081  C5*  G   A 247     148.057  74.428 -40.024  1.00 45.35      A16S
ATOM   5082  C4*  G   A 247     147.175  74.628 -38.805  1.00 45.35      A16S
ATOM   5083  O4*  G   A 247     146.356  75.817 -38.944  1.00 45.35      A16S
ATOM   5084  C1*  G   A 247     145.104  75.614 -38.298  1.00 45.35      A16S
ATOM   5085  N9   G   A 247     144.018  75.746 -39.267  1.00 37.14      A16S
ATOM   5086  C4   G   A 247     142.679  75.672 -38.978  1.00 37.14      A16S
ATOM   5087  N3   G   A 247     142.149  75.486 -37.754  1.00 37.14      A16S
ATOM   5088  C2   G   A 247     140.831  75.489 -37.780  1.00 37.14      A16S
ATOM   5089  N2   G   A 247     140.158  75.352 -36.628  1.00 37.14      A16S
ATOM   5090  N1   G   A 247     140.085  75.635 -38.930  1.00 37.14      A16S
ATOM   5091  C6   G   A 247     140.613  75.810 -40.205  1.00 37.14      A16S
ATOM   5092  O6   G   A 247     139.860  75.915 -41.177  1.00 37.14      A16S
ATOM   5093  C5   G   A 247     142.031  75.835 -40.181  1.00 37.14      A16S
ATOM   5094  N7   G   A 247     142.943  76.014 -41.208  1.00 37.14      A16S
ATOM   5095  C8   G   A 247     144.108  75.951 -40.622  1.00 37.14      A16S
ATOM   5096  C2*  G   A 247     145.113  74.212 -37.709  1.00 45.35      A16S
ATOM   5097  O2*  G   A 247     145.501  74.292 -36.363  1.00 45.35      A16S
ATOM   5098  C3*  G   A 247     146.157  73.528 -38.569  1.00 45.35      A16S
ATOM   5099  O3*  G   A 247     146.697  72.392 -37.930  1.00 45.35      A16S
ATOM   5100  P    C   A 248     146.030  70.959 -38.197  1.00 48.26      A16S
ATOM   5101  O1P  C   A 248     146.805  69.948 -37.446  1.00 34.84      A16S
ATOM   5102  O2P  C   A 248     145.871  70.819 -39.667  1.00 34.84      A16S
ATOM   5103  O5*  C   A 248     144.613  71.068 -37.483  1.00 48.26      A16S
ATOM   5104  C5*  C   A 248     144.538  71.183 -36.050  1.00 48.26      A16S
ATOM   5105  C4*  C   A 248     143.121  70.998 -35.575  1.00 48.26      A16S
ATOM   5106  O4*  C   A 248     142.311  72.133 -35.957  1.00 48.26      A16S
ATOM   5107  C1*  C   A 248     141.000  71.700 -36.262  1.00 48.26      A16S
ATOM   5108  N1   C   A 248     140.683  72.062 -37.650  1.00 34.84      A16S
ATOM   5109  C6   C   A 248     141.666  72.207 -38.582  1.00 34.84      A16S
ATOM   5110  C2   C   A 248     139.344  72.247 -38.004  1.00 34.84      A16S
ATOM   5111  O2   C   A 248     138.480  72.133 -37.135  1.00 34.84      A16S
ATOM   5112  N3   C   A 248     139.026  72.547 -39.279  1.00 34.84      A16S
ATOM   5113  C4   C   A 248     139.990  72.667 -40.188  1.00 34.84      A16S
ATOM   5114  N4   C   A 248     139.637  72.936 -41.453  1.00 34.84      A16S
ATOM   5115  C5   C   A 248     141.370  72.508 -39.849  1.00 34.84      A16S
ATOM   5116  C2*  C   A 248     140.942  70.197 -36.030  1.00 48.26      A16S
ATOM   5117  O2*  C   A 248     140.472  69.991 -34.722  1.00 48.26      A16S
ATOM   5118  C3*  C   A 248     142.403  69.806 -36.167  1.00 48.26      A16S
ATOM   5119  O3*  C   A 248     142.718  68.621 -35.461  1.00 48.26      A16S
ATOM   5120  P    U   A 249     142.513  67.200 -36.182  1.00 47.28      A16S
ATOM   5121  O1P  U   A 249     142.987  66.162 -35.222  1.00 51.40      A16S
ATOM   5122  O2P  U   A 249     143.068  67.249 -37.572  1.00 51.40      A16S
ATOM   5123  O5*  U   A 249     140.933  67.075 -36.273  1.00 47.28      A16S
ATOM   5124  C5*  U   A 249     140.148  67.127 -35.087  1.00 47.28      A16S
ATOM   5125  C4*  U   A 249     138.691  67.074 -35.431  1.00 47.28      A16S
ATOM   5126  O4*  U   A 249     138.274  68.292 -36.090  1.00 47.28      A16S
ATOM   5127  C1*  U   A 249     137.258  67.998 -37.025  1.00 47.28      A16S
ATOM   5128  N1   U   A 249     137.694  68.464 -38.352  1.00 51.40      A16S
ATOM   5129  C6   U   A 249     139.021  68.448 -38.713  1.00 51.40      A16S
ATOM   5130  C2   U   A 249     136.726  68.917 -39.240  1.00 51.40      A16S
ATOM   5131  O2   U   A 249     135.536  68.974 -38.973  1.00 51.40      A16S
ATOM   5132  N3   U   A 249     137.201  69.308 -40.461  1.00 51.40      A16S
ATOM   5133  C4   U   A 249     138.506  69.303 -40.886  1.00 51.40      A16S
ATOM   5134  O4   U   A 249     138.763  69.657 -42.037  1.00 51.40      A16S
ATOM   5135  C5   U   A 249     139.449  68.842 -39.916  1.00 51.40      A16S
ATOM   5136  C2*  U   A 249     136.989  66.493 -36.949  1.00 47.28      A16S
ATOM   5137  O2*  U   A 249     135.942  66.272 -36.030  1.00 47.28      A16S
ATOM   5138  C3*  U   A 249     138.301  65.974 -36.386  1.00 47.28      A16S
ATOM   5139  O3*  U   A 249     138.171  64.751 -35.687  1.00 47.28      A16S
ATOM   5140  P    A   A 250     138.220  63.374 -36.499  1.00 72.37      A16S
ATOM   5141  O1P  A   A 250     138.512  62.285 -35.532  1.00 77.01      A16S
ATOM   5142  O2P  A   A 250     139.080  63.543 -37.689  1.00 77.01      A16S
ATOM   5143  O5*  A   A 250     136.724  63.237 -37.019  1.00 72.37      A16S
ATOM   5144  C5*  A   A 250     135.687  62.708 -36.175  1.00 72.37      A16S
ATOM   5145  C4*  A   A 250     134.870  61.717 -36.955  1.00 72.37      A16S
ATOM   5146  O4*  A   A 250     134.140  62.417 -37.981  1.00 72.37      A16S
ATOM   5147  C1*  A   A 250     134.251  61.733 -39.210  1.00 72.37      A16S
ATOM   5148  N9   A   A 250     134.792  62.697 -40.156  1.00 77.01      A16S
ATOM   5149  C4   A   A 250     134.320  62.974 -41.416  1.00 77.01      A16S
ATOM   5150  N3   A   A 250     133.346  62.330 -42.086  1.00 77.01      A16S
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ATOM   5151  C2  A   A 250     133.110  62.926 -43.255  1.00 77.01      A16S
ATOM   5152  N1  A   A 250     133.686  64.020 -43.783  1.00 77.01      A16S
ATOM   5153  C6  A   A 250     134.659  64.646 -43.074  1.00 77.01      A16S
ATOM   5154  N6  A   A 250     135.217  65.757 -43.572  1.00 77.01      A16S
ATOM   5155  C5  A   A 250     135.017  64.097 -41.836  1.00 77.01      A16S
ATOM   5156  N7  A   A 250     135.963  64.472 -40.891  1.00 77.01      A16S
ATOM   5157  C8  A   A 250     135.805  63.597 -39.927  1.00 77.01      A16S
ATOM   5158  C2* A   A 250     134.996  60.413 -38.985  1.00 72.37      A16S
ATOM   5159  O2* A   A 250     134.058  59.357 -38.937  1.00 72.37      A16S
ATOM   5160  C3* A   A 250     135.730  60.691 -37.674  1.00 72.37      A16S
ATOM   5161  O3* A   A 250     136.009  59.590 -36.792  1.00 72.37      A16S
ATOM   5162  P   G   A 251     134.807  58.691 -36.182  1.00 79.72      A16S
ATOM   5163  O1P G   A 251     135.229  58.208 -34.817  1.00 61.49      A16S
ATOM   5164  O2P G   A 251     134.417  57.705 -37.227  1.00 61.49      A16S
ATOM   5165  O5* G   A 251     133.581  59.688 -35.957  1.00 79.72      A16S
ATOM   5166  C5* G   A 251     132.611  59.422 -34.929  1.00 79.72      A16S
ATOM   5167  C4* G   A 251     131.816  60.665 -34.603  1.00 79.72      A16S
ATOM   5168  O4* G   A 251     130.918  60.985 -35.694  1.00 79.72      A16S
ATOM   5169  C1* G   A 251     129.585  61.001 -35.227  1.00 79.72      A16S
ATOM   5170  N9  G   A 251     128.724  60.534 -36.309  1.00 61.49      A16S
ATOM   5171  C4  G   A 251     127.797  61.292 -36.987  1.00 61.49      A16S
ATOM   5172  N3  G   A 251     127.468  62.568 -36.714  1.00 61.49      A16S
ATOM   5173  C2  G   A 251     126.592  63.047 -37.571  1.00 61.49      A16S
ATOM   5174  N2  G   A 251     126.156  64.303 -37.441  1.00 61.49      A16S
ATOM   5175  N1  G   A 251     126.081  62.336 -38.618  1.00 61.49      A16S
ATOM   5176  C6  G   A 251     126.407  61.023 -38.926  1.00 61.49      A16S
ATOM   5177  O6  G   A 251     125.905  60.481 -39.919  1.00 61.49      A16S
ATOM   5178  C5  G   A 251     127.336  60.487 -38.000  1.00 61.49      A16S
ATOM   5179  N7  G   A 251     127.911  59.224 -37.926  1.00 61.49      A16S
ATOM   5180  C8  G   A 251     128.715  59.295 -36.899  1.00 61.49      A16S
ATOM   5181  C2* G   A 251     129.574  60.174 -33.949  1.00 79.72      A16S
ATOM   5182  O2* G   A 251     128.502  60.559 -33.120  1.00 79.72      A16S
ATOM   5183  C3* G   A 251     130.943  60.512 -33.364  1.00 79.72      A16S
ATOM   5184  O3* G   A 251     130.853  61.753 -32.662  1.00 79.72      A16S
ATOM   5185  P   U   A 252     132.153  62.697 -32.497  1.00 44.63      A16S
ATOM   5186  O1P U   A 252     133.395  61.896 -32.443  1.00 45.82      A16S
ATOM   5187  O2P U   A 252     131.872  63.637 -31.390  1.00 45.82      A16S
ATOM   5188  O5* U   A 252     132.157  63.528 -33.859  1.00 44.63      A16S
ATOM   5189  C5* U   A 252     133.129  64.556 -34.050  1.00 44.63      A16S
ATOM   5190  C4* U   A 252     132.911  65.327 -35.338  1.00 44.63      A16S
ATOM   5191  O4* U   A 252     133.167  64.539 -36.517  1.00 44.63      A16S
ATOM   5192  C1* U   A 252     132.708  65.267 -37.630  1.00 44.63      A16S
ATOM   5193  N1  U   A 252     132.006  64.379 -38.563  1.00 45.82      A16S
ATOM   5194  C6  U   A 252     131.477  63.175 -38.181  1.00 45.82      A16S
ATOM   5195  C2  U   A 252     131.897  64.820 -39.857  1.00 45.82      A16S
ATOM   5196  O2  U   A 252     132.326  65.899 -40.228  1.00 45.82      A16S
ATOM   5197  N3  U   A 252     131.255  63.968 -40.705  1.00 45.82      A16S
ATOM   5198  C4  U   A 252     130.711  62.759 -40.400  1.00 45.82      A16S
ATOM   5199  O4  U   A 252     130.154  62.117 -41.286  1.00 45.82      A16S
ATOM   5200  C5  U   A 252     130.847  62.371 -39.031  1.00 45.82      A16S
ATOM   5201  C2* U   A 252     131.826  66.404 -37.113  1.00 44.63      A16S
ATOM   5202  O2* U   A 252     132.611  67.575 -37.197  1.00 44.63      A16S
ATOM   5203  C3* U   A 252     131.595  66.004 -35.660  1.00 44.63      A16S
ATOM   5204  O3* U   A 252     131.471  67.192 -34.906  1.00 44.63      A16S
ATOM   5205  P   U   A 253     130.029  67.681 -34.407  1.00 40.29      A16S
ATOM   5206  O1P U   A 253     130.329  68.762 -33.420  1.00 45.61      A16S
ATOM   5207  O2P U   A 253     129.232  66.480 -33.983  1.00 45.61      A16S
ATOM   5208  O5* U   A 253     129.377  68.347 -35.701  1.00 40.29      A16S
ATOM   5209  C5* U   A 253     129.357  69.772 -35.835  1.00 40.29      A16S
ATOM   5210  C4* U   A 253     128.524  70.200 -37.014  1.00 40.29      A16S
ATOM   5211  O4* U   A 253     129.153  69.789 -38.252  1.00 40.29      A16S
ATOM   5212  C1* U   A 253     128.157  69.531 -39.226  1.00 40.29      A16S
ATOM   5213  N1  U   A 253     128.194  68.103 -39.577  1.00 45.61      A16S
ATOM   5214  C6  U   A 253     128.786  67.172 -38.761  1.00 45.61      A16S
ATOM   5215  C2  U   A 253     127.589  67.722 -40.757  1.00 45.61      A16S
ATOM   5216  O2  U   A 253     127.065  68.510 -41.513  1.00 45.61      A16S
ATOM   5217  N3  U   A 253     127.612  66.381 -41.017  1.00 45.61      A16S
ATOM   5218  C4  U   A 253     128.163  65.399 -40.242  1.00 45.61      A16S
ATOM   5219  O4  U   A 253     128.021  64.223 -40.574  1.00 45.61      A16S
ATOM   5220  C5  U   A 253     128.791  65.867 -39.045  1.00 45.61      A16S
ATOM   5221  C2* U   A 253     126.817  69.873 -38.589  1.00 40.29      A16S
ATOM   5222  O2* U   A 253     126.540  71.236 -38.830  1.00 40.29      A16S
ATOM   5223  C3* U   A 253     127.119  69.645 -37.123  1.00 40.29      A16S
ATOM   5224  O3* U   A 253     126.195  70.328 -36.311  1.00 40.29      A16S
ATOM   5225  P   G   A 254     124.875  69.566 -35.821  1.00 41.87      A16S
ATOM   5226  O1P G   A 254     124.201  70.502 -34.935  1.00 42.87      A16S
ATOM   5227  O2P G   A 254     125.244  68.224 -35.330  1.00 42.87      A16S
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ATOM   5228  O5* G   A 254     124.002  69.429 -37.141  1.00 41.87      A16S
ATOM   5229  C5* G   A 254     123.511  70.608 -37.782  1.00 41.87      A16S
ATOM   5230  C4* G   A 254     122.888  70.275 -39.104  1.00 41.87      A16S
ATOM   5231  O4* G   A 254     123.898  69.748 -40.002  1.00 41.87      A16S
ATOM   5232  C1* G   A 254     123.309  68.805 -40.878  1.00 41.87      A16S
ATOM   5233  N9   G   A 254     123.908  67.495 -40.637  1.00 42.87      A16S
ATOM   5234  C4   G   A 254     123.758  66.389 -41.440  1.00 42.87      A16S
ATOM   5235  N3   G   A 254     123.060  66.340 -42.590  1.00 42.87      A16S
ATOM   5236  C2   G   A 254     123.066  65.136 -43.115  1.00 42.87      A16S
ATOM   5237  N2   G   A 254     122.424  64.915 -44.252  1.00 42.87      A16S
ATOM   5238  N1   G   A 254     123.704  64.063 -42.565  1.00 42.87      A16S
ATOM   5239  C6   G   A 254     124.436  64.089 -41.390  1.00 42.87      A16S
ATOM   5240  O6   G   A 254     124.982  63.060 -40.988  1.00 42.87      A16S
ATOM   5241  C5   G   A 254     124.439  65.378 -40.806  1.00 42.87      A16S
ATOM   5242  N7   G   A 254     125.025  65.839 -39.634  1.00 42.87      A16S
ATOM   5243  C8   G   A 254     124.687  67.100 -39.575  1.00 42.87      A16S
ATOM   5244  C2* G   A 254     121.815  68.754 -40.555  1.00 41.87      A16S
ATOM   5245  O2* G   A 254     121.122  69.641 -41.415  1.00 41.87      A16S
ATOM   5246  C3* G   A 254     121.803  69.210 -39.101  1.00 41.87      A16S
ATOM   5247  O3* G   A 254     120.528  69.690 -38.680  1.00 41.87      A16S
ATOM   5248  P    G   A 255     119.383  68.633 -38.295  1.00 45.06      A16S
ATOM   5249  O1P G   A 255     118.156  69.379 -37.930  1.00 50.47      A16S
ATOM   5250  O2P G   A 255     119.932  67.635 -37.357  1.00 50.47      A16S
ATOM   5251  O5* G   A 255     119.091  67.911 -39.674  1.00 45.06      A16S
ATOM   5252  C5* G   A 255     118.492  68.649 -40.747  1.00 45.06      A16S
ATOM   5253  C4* G   A 255     118.177  67.737 -41.900  1.00 45.06      A16S
ATOM   5254  O4* G   A 255     119.400  67.104 -42.355  1.00 45.06      A16S
ATOM   5255  C1* G   A 255     119.118  65.789 -42.791  1.00 45.06      A16S
ATOM   5256  N9   G   A 255     119.902  64.859 -41.993  1.00 50.47      A16S
ATOM   5257  C4   G   A 255     120.141  63.559 -42.309  1.00 50.47      A16S
ATOM   5258  N3   G   A 255     119.690  62.924 -43.402  1.00 50.47      A16S
ATOM   5259  C2   G   A 255     120.083  61.669 -43.431  1.00 50.47      A16S
ATOM   5260  N2   G   A 255     119.726  60.880 -44.451  1.00 50.47      A16S
ATOM   5261  N1   G   A 255     120.857  61.093 -42.468  1.00 50.47      A16S
ATOM   5262  C6   G   A 255     121.336  61.740 -41.342  1.00 50.47      A16S
ATOM   5263  O6   G   A 255     122.042  61.138 -40.554  1.00 50.47      A16S
ATOM   5264  C5   G   A 255     120.917  63.069 -41.290  1.00 50.47      A16S
ATOM   5265  N7   G   A 255     121.155  64.044 -40.339  1.00 50.47      A16S
ATOM   5266  C8   G   A 255     120.535  65.094 -40.799  1.00 50.47      A16S
ATOM   5267  C2* G   A 255     117.616  65.552 -42.642  1.00 45.06      A16S
ATOM   5268  O2* G   A 255     117.004  65.781 -43.896  1.00 45.06      A16S
ATOM   5269  C3* G   A 255     117.253  66.581 -41.577  1.00 45.06      A16S
ATOM   5270  O3* G   A 255     115.901  66.987 -41.608  1.00 45.06      A16S
ATOM   5271  P    U   A 256     114.852  66.288 -40.623  1.00 56.89      A16S
ATOM   5272  O1P U   A 256     113.611  67.105 -40.694  1.00 56.35      A16S
ATOM   5273  O2P U   A 256     115.492  66.042 -39.313  1.00 56.35      A16S
ATOM   5274  O5* U   A 256     114.606  64.867 -41.293  1.00 56.89      A16S
ATOM   5275  C5* U   A 256     113.900  64.750 -42.547  1.00 56.89      A16S
ATOM   5276  C4* U   A 256     113.784  63.299 -42.946  1.00 56.89      A16S
ATOM   5277  O4* U   A 256     115.105  62.785 -43.258  1.00 56.89      A16S
ATOM   5278  C1* U   A 256     115.206  61.440 -42.826  1.00 56.89      A16S
ATOM   5279  N1   U   A 256     116.290  61.332 -41.836  1.00 56.35      A16S
ATOM   5280  C6   U   A 256     116.726  62.418 -41.123  1.00 56.35      A16S
ATOM   5281  C2   U   A 256     116.854  60.080 -41.633  1.00 56.35      A16S
ATOM   5282  O2   U   A 256     116.499  59.083 -42.243  1.00 56.35      A16S
ATOM   5283  N3   U   A 256     117.847  60.032 -40.690  1.00 56.35      A16S
ATOM   5284  C4   U   A 256     118.325  61.076 -39.945  1.00 56.35      A16S
ATOM   5285  O4   U   A 256     119.248  60.880 -39.160  1.00 56.35      A16S
ATOM   5286  C5   U   A 256     117.695  62.335 -40.207  1.00 56.35      A16S
ATOM   5287  C2* U   A 256     113.852  61.030 -42.244  1.00 56.89      A16S
ATOM   5288  O2* U   A 256     113.097  60.363 -43.230  1.00 56.89      A16S
ATOM   5289  C3* U   A 256     113.260  62.376 -41.856  1.00 56.89      A16S
ATOM   5290  O3* U   A 256     111.837  62.352 -41.785  1.00 56.89      A16S
ATOM   5291  P    G   A 257     111.116  61.975 -40.396  1.00 59.66      A16S
ATOM   5292  O1P G   A 257     109.658  61.979 -40.675  1.00 73.35      A16S
ATOM   5293  O2P G   A 257     111.648  62.848 -39.324  1.00 73.35      A16S
ATOM   5294  O5* G   A 257     111.595  60.475 -40.114  1.00 59.66      A16S
ATOM   5295  C5* G   A 257     111.079  59.389 -40.914  1.00 59.66      A16S
ATOM   5296  C4* G   A 257     111.746  58.077 -40.566  1.00 59.66      A16S
ATOM   5297  O4* G   A 257     113.164  58.146 -40.851  1.00 59.66      A16S
ATOM   5298  C1* G   A 257     113.867  57.284 -39.970  1.00 59.66      A16S
ATOM   5299  N9   G   A 257     114.841  58.071 -39.215  1.00 73.35      A16S
ATOM   5300  C4   G   A 257     115.930  57.590 -38.519  1.00 73.35      A16S
ATOM   5301  N3   G   A 257     116.310  56.299 -38.427  1.00 73.35      A16S
ATOM   5302  C2   G   A 257     117.394  56.153 -37.677  1.00 73.35      A16S
ATOM   5303  N2   G   A 257     117.923  54.942 -37.492  1.00 73.35      A16S
ATOM   5304  N1   G   A 257     118.043  57.184 -37.058  1.00 73.35      A16S
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ATOM   5305  C6  G   A 257     117.671  58.519 -37.134  1.00 73.35      A16S
ATOM   5306  O6  G   A 257     118.327  59.375 -36.526  1.00 73.35      A16S
ATOM   5307  C5  G   A 257     116.517  58.696 -37.949  1.00 73.35      A16S
ATOM   5308  N7  G   A 257     115.828  59.852 -38.291  1.00 73.35      A16S
ATOM   5309  C8  G   A 257     114.846  59.434 -39.041  1.00 73.35      A16S
ATOM   5310  C2* G   A 257     112.834  56.607 -39.066  1.00 59.66      A16S
ATOM   5311  O2* G   A 257     112.495  55.352 -39.618  1.00 59.66      A16S
ATOM   5312  C3* G   A 257     111.664  57.582 -39.131  1.00 59.66      A16S
ATOM   5313  O3* G   A 257     110.435  56.906 -38.877  1.00 59.66      A16S
ATOM   5314  P   G   A 258     109.908  56.731 -37.359  1.00 59.87      A16S
ATOM   5315  O1P G   A 258     108.740  55.811 -37.456  1.00 65.02      A16S
ATOM   5316  O2P G   A 258     109.717  58.070 -36.762  1.00 65.02      A16S
ATOM   5317  O5* G   A 258     111.105  55.981 -36.602  1.00 59.87      A16S
ATOM   5318  C5* G   A 258     111.356  54.601 -36.891  1.00 59.87      A16S
ATOM   5319  C4* G   A 258     112.550  54.052 -36.137  1.00 59.87      A16S
ATOM   5320  O4* G   A 258     113.773  54.692 -36.569  1.00 59.87      A16S
ATOM   5321  C1* G   A 258     114.756  54.538 -35.558  1.00 59.87      A16S
ATOM   5322  N9  G   A 258     115.269  55.849 -35.180  1.00 65.02      A16S
ATOM   5323  C4  G   A 258     116.412  56.097 -34.462  1.00 65.02      A16S
ATOM   5324  N3  G   A 258     117.278  55.174 -34.015  1.00 65.02      A16S
ATOM   5325  C2  G   A 258     118.276  55.722 -33.363  1.00 65.02      A16S
ATOM   5326  N2  G   A 258     119.248  54.954 -32.883  1.00 65.02      A16S
ATOM   5327  N1  G   A 258     118.401  57.062 -33.143  1.00 65.02      A16S
ATOM   5328  C6  G   A 258     117.514  58.028 -33.593  1.00 65.02      A16S
ATOM   5329  O6  G   A 258     117.712  59.215 -33.341  1.00 65.02      A16S
ATOM   5330  C5  G   A 258     116.459  57.462 -34.309  1.00 65.02      A16S
ATOM   5331  N7  G   A 258     115.382  58.066 -34.935  1.00 65.02      A16S
ATOM   5332  C8  G   A 258     114.705  57.073 -35.442  1.00 65.02      A16S
ATOM   5333  C2* G   A 258     114.099  53.836 -34.367  1.00 59.87      A16S
ATOM   5334  O2* G   A 258     114.405  52.456 -34.406  1.00 59.87      A16S
ATOM   5335  C3* G   A 258     112.615  54.092 -34.617  1.00 59.87      A16S
ATOM   5336  O3* G   A 258     111.851  53.069 -33.972  1.00 59.87      A16S
ATOM   5337  P   G   A 259     111.523  53.195 -32.396  1.00 57.64      A16S
ATOM   5338  O1P G   A 259     110.631  52.082 -31.984  1.00 57.03      A16S
ATOM   5339  O2P G   A 259     111.102  54.599 -32.145  1.00 57.03      A16S
ATOM   5340  O5* G   A 259     112.929  52.950 -31.691  1.00 57.64      A16S
ATOM   5341  C5* G   A 259     113.570  51.669 -31.756  1.00 57.64      A16S
ATOM   5342  C4* G   A 259     114.897  51.713 -31.036  1.00 57.64      A16S
ATOM   5343  O4* G   A 259     115.777  52.646 -31.708  1.00 57.64      A16S
ATOM   5344  C1* G   A 259     116.569  53.336 -30.752  1.00 57.64      A16S
ATOM   5345  N9  G   A 259     116.280  54.767 -30.860  1.00 57.03      A16S
ATOM   5346  C4  G   A 259     116.974  55.786 -30.254  1.00 57.03      A16S
ATOM   5347  N3  G   A 259     118.064  55.643 -29.479  1.00 57.03      A16S
ATOM   5348  C2  G   A 259     118.502  56.800 -29.029  1.00 57.03      A16S
ATOM   5349  N2  G   A 259     119.591  56.832 -28.254  1.00 57.03      A16S
ATOM   5350  N1  G   A 259     117.906  58.008 -29.309  1.00 57.03      A16S
ATOM   5351  C6  G   A 259     116.776  58.178 -30.098  1.00 57.03      A16S
ATOM   5352  O6  G   A 259     116.305  59.305 -30.267  1.00 57.03      A16S
ATOM   5353  C5  G   A 259     116.309  56.942 -30.603  1.00 57.03      A16S
ATOM   5354  N7  G   A 259     115.232  56.659 -31.434  1.00 57.03      A16S
ATOM   5355  C8  G   A 259     115.255  55.360 -31.562  1.00 57.03      A16S
ATOM   5356  C2* G   A 259     116.237  52.767 -29.371  1.00 57.64      A16S
ATOM   5357  O2* G   A 259     117.190  51.787 -29.008  1.00 57.64      A16S
ATOM   5358  C3* G   A 259     114.842  52.196 -29.597  1.00 57.64      A16S
ATOM   5359  O3* G   A 259     114.588  51.116 -28.728  1.00 57.64      A16S
ATOM   5360  P   G   A 260     113.695  51.342 -27.423  1.00 54.21      A16S
ATOM   5361  O1P G   A 260     113.567  50.012 -26.764  1.00 63.93      A16S
ATOM   5362  O2P G   A 260     112.468  52.099 -27.816  1.00 63.93      A16S
ATOM   5363  O5* G   A 260     114.583  52.276 -26.491  1.00 54.21      A16S
ATOM   5364  C5* G   A 260     115.882  51.870 -26.055  1.00 54.21      A16S
ATOM   5365  C4* G   A 260     116.611  53.051 -25.478  1.00 54.21      A16S
ATOM   5366  O4* G   A 260     116.902  53.993 -26.538  1.00 54.21      A16S
ATOM   5367  C1* G   A 260     116.828  55.314 -26.039  1.00 54.21      A16S
ATOM   5368  N9  G   A 260     115.866  56.055 -26.847  1.00 63.93      A16S
ATOM   5369  C4  G   A 260     115.720  57.420 -26.901  1.00 63.93      A16S
ATOM   5370  N3  G   A 260     116.447  58.324 -26.214  1.00 63.93      A16S
ATOM   5371  C2  G   A 260     116.081  59.561 -26.489  1.00 63.93      A16S
ATOM   5372  N2  G   A 260     116.709  60.579 -25.906  1.00 63.93      A16S
ATOM   5373  N1  G   A 260     115.072  59.891 -27.360  1.00 63.93      A16S
ATOM   5374  C6  G   A 260     114.304  58.977 -28.077  1.00 63.93      A16S
ATOM   5375  O6  G   A 260     113.407  59.378 -28.837  1.00 63.93      A16S
ATOM   5376  C5  G   A 260     114.695  57.642 -27.797  1.00 63.93      A16S
ATOM   5377  N7  G   A 260     114.210  56.444 -28.295  1.00 63.93      A16S
ATOM   5378  C8  G   A 260     114.933  55.533 -27.704  1.00 63.93      A16S
ATOM   5379  C2* G   A 260     116.473  55.238 -24.552  1.00 54.21      A16S
ATOM   5380  O2* G   A 260     117.658  55.351 -23.789  1.00 54.21      A16S
ATOM   5381  C3* G   A 260     115.834  53.857 -24.449  1.00 54.21      A16S
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ATOM   5382  O3* G   A 260     115.978  53.289 -23.151  1.00 54.21      A16S
ATOM   5383  P   U   A 261     114.708  53.196 -22.166  1.00 56.34      A16S
ATOM   5384  O1P U   A 261     113.456  53.011 -22.947  1.00 52.76      A16S
ATOM   5385  O2P U   A 261     115.075  52.220 -21.115  1.00 52.76      A16S
ATOM   5386  O5* U   A 261     114.655  54.632 -21.497  1.00 56.34      A16S
ATOM   5387  C5* U   A 261     115.726  55.071 -20.649  1.00 56.34      A16S
ATOM   5388  C4* U   A 261     115.571  56.533 -20.327  1.00 56.34      A16S
ATOM   5389  O4* U   A 261     115.858  57.332 -21.500  1.00 56.34      A16S
ATOM   5390  C1* U   A 261     115.044  58.483 -21.498  1.00 56.34      A16S
ATOM   5391  N1  U   A 261     114.295  58.525 -22.762  1.00 52.76      A16S
ATOM   5392  C6  U   A 261     113.929  57.381 -23.418  1.00 52.76      A16S
ATOM   5393  C2  U   A 261     113.967  59.761 -23.267  1.00 52.76      A16S
ATOM   5394  O2  U   A 261     114.290  60.792 -22.731  1.00 52.76      A16S
ATOM   5395  N3  U   A 261     113.251  59.746 -24.430  1.00 52.76      A16S
ATOM   5396  C4  U   A 261     112.845  58.641 -25.134  1.00 52.76      A16S
ATOM   5397  O4  U   A 261     112.175  58.788 -26.166  1.00 52.76      A16S
ATOM   5398  C5  U   A 261     113.237  57.394 -24.558  1.00 52.76      A16S
ATOM   5399  C2* U   A 261     114.168  58.442 -20.242  1.00 56.34      A16S
ATOM   5400  O2* U   A 261     114.759  59.245 -19.239  1.00 56.34      A16S
ATOM   5401  C3* U   A 261     114.183  56.956 -19.898  1.00 56.34      A16S
ATOM   5402  O3* U   A 261     113.978  56.686 -18.517  1.00 56.34      A16S
ATOM   5403  P   A   A 262     112.493  56.379 -17.983  1.00 41.53      A16S
ATOM   5404  O1P A   A 262     111.780  55.660 -19.075  1.00 56.07      A16S
ATOM   5405  O2P A   A 262     112.573  55.774 -16.631  1.00 56.07      A16S
ATOM   5406  O5* A   A 262     111.835  57.818 -17.832  1.00 41.53      A16S
ATOM   5407  C5* A   A 262     110.432  57.955 -17.585  1.00 41.53      A16S
ATOM   5408  C4* A   A 262     110.021  59.399 -17.711  1.00 41.53      A16S
ATOM   5409  O4* A   A 262     110.540  60.178 -16.604  1.00 41.53      A16S
ATOM   5410  C1* A   A 262     110.958  61.443 -17.071  1.00 41.53      A16S
ATOM   5411  N9  A   A 262     112.393  61.543 -16.798  1.00 56.07      A16S
ATOM   5412  C4  A   A 262     113.141  62.687 -16.692  1.00 56.07      A16S
ATOM   5413  N3  A   A 262     112.721  63.948 -16.847  1.00 56.07      A16S
ATOM   5414  C2  A   A 262     113.721  64.794 -16.639  1.00 56.07      A16S
ATOM   5415  N1  A   A 262     114.991  64.542 -16.319  1.00 56.07      A16S
ATOM   5416  C6  A   A 262     115.374  63.264 -16.175  1.00 56.07      A16S
ATOM   5417  N6  A   A 262     116.635  63.013 -15.855  1.00 56.07      A16S
ATOM   5418  C5  A   A 262     114.419  62.274 -16.370  1.00 56.07      A16S
ATOM   5419  N7  A   A 262     114.488  60.893 -16.296  1.00 56.07      A16S
ATOM   5420  C8  A   A 262     113.267  60.505 -16.564  1.00 56.07      A16S
ATOM   5421  C2* A   A 262     110.572  61.544 -18.553  1.00 41.53      A16S
ATOM   5422  O2* A   A 262     109.294  62.133 -18.670  1.00 41.53      A16S
ATOM   5423  C3* A   A 262     110.530  60.082 -18.961  1.00 41.53      A16S
ATOM   5424  O3* A   A 262     109.624  59.847 -20.011  1.00 41.53      A16S
ATOM   5425  P   A   A 263     110.170  59.750 -21.501  1.00 40.55      A16S
ATOM   5426  O1P A   A 263     109.039  59.507 -22.448  1.00 38.08      A16S
ATOM   5427  O2P A   A 263     111.312  58.813 -21.476  1.00 38.08      A16S
ATOM   5428  O5* A   A 263     110.705  61.225 -21.746  1.00 40.55      A16S
ATOM   5429  C5* A   A 263     109.776  62.297 -21.961  1.00 40.55      A16S
ATOM   5430  C4* A   A 263     110.508  63.583 -22.206  1.00 40.55      A16S
ATOM   5431  O4* A   A 263     111.157  63.993 -20.984  1.00 40.55      A16S
ATOM   5432  C1* A   A 263     112.387  64.609 -21.289  1.00 40.55      A16S
ATOM   5433  N9  A   A 263     113.448  63.818 -20.675  1.00 38.08      A16S
ATOM   5434  C4  A   A 263     114.540  64.305 -20.015  1.00 38.08      A16S
ATOM   5435  N3  A   A 263     114.824  65.588 -19.761  1.00 38.08      A16S
ATOM   5436  C2  A   A 263     115.979  65.687 -19.127  1.00 38.08      A16S
ATOM   5437  N1  A   A 263     116.816  64.724 -18.753  1.00 38.08      A16S
ATOM   5438  C6  A   A 263     116.493  63.446 -19.019  1.00 38.08      A16S
ATOM   5439  N6  A   A 263     117.328  62.488 -18.637  1.00 38.08      A16S
ATOM   5440  C5  A   A 263     115.299  63.206 -19.678  1.00 38.08      A16S
ATOM   5441  N7  A   A 263     114.681  62.038 -20.084  1.00 38.08      A16S
ATOM   5442  C8  A   A 263     113.583  62.454 -20.661  1.00 38.08      A16S
ATOM   5443  C2* A   A 263     112.504  64.684 -22.814  1.00 40.55      A16S
ATOM   5444  O2* A   A 263     111.968  65.925 -23.235  1.00 40.55      A16S
ATOM   5445  C3* A   A 263     111.610  63.536 -23.250  1.00 40.55      A16S
ATOM   5446  O3* A   A 263     111.061  63.746 -24.546  1.00 40.55      A16S
ATOM   5447  P   U   A 264     111.924  63.389 -25.850  1.00 32.98      A16S
ATOM   5448  O1P U   A 264     110.992  63.162 -26.980  1.00 57.63      A16S
ATOM   5449  O2P U   A 264     112.893  62.335 -25.470  1.00 57.63      A16S
ATOM   5450  O5* U   A 264     112.755  64.708 -26.140  1.00 32.98      A16S
ATOM   5451  C5* U   A 264     112.093  65.920 -26.549  1.00 32.98      A16S
ATOM   5452  C4* U   A 264     113.108  67.011 -26.796  1.00 32.98      A16S
ATOM   5453  O4* U   A 264     113.751  67.385 -25.551  1.00 32.98      A16S
ATOM   5454  C1* U   A 264     115.102  67.718 -25.791  1.00 32.98      A16S
ATOM   5455  N1  U   A 264     115.947  66.831 -24.990  1.00 57.63      A16S
ATOM   5456  C6  U   A 264     115.503  65.600 -24.562  1.00 57.63      A16S
ATOM   5457  C2  U   A 264     117.212  67.273 -24.692  1.00 57.63      A16S
ATOM   5458  O2  U   A 264     117.630  68.366 -25.044  1.00 57.63      A16S
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ATOM   5459  N3  U   A 264     117.974  66.393 -23.966  1.00 57.63      A16S
ATOM   5460  C4  U   A 264     117.597  65.146 -23.516  1.00 57.63      A16S
ATOM   5461  O4  U   A 264     118.402  64.467 -22.882  1.00 57.63      A16S
ATOM   5462  C5  U   A 264     116.265  64.767 -23.855  1.00 57.63      A16S
ATOM   5463  C2* U   A 264     115.363  67.572 -27.288  1.00 32.98      A16S
ATOM   5464  O2* U   A 264     115.243  68.846 -27.873  1.00 32.98      A16S
ATOM   5465  C3* U   A 264     114.252  66.620 -27.707  1.00 32.98      A16S
ATOM   5466  O3* U   A 264     113.871  66.754 -29.062  1.00 32.98      A16S
ATOM   5467  P   G   A 265     114.352  65.650 -30.117  1.00 35.96      A16S
ATOM   5468  O1P G   A 265     113.957  66.091 -31.486  1.00 70.09      A16S
ATOM   5469  O2P G   A 265     113.923  64.319 -29.619  1.00 70.09      A16S
ATOM   5470  O5* G   A 265     115.936  65.727 -30.004  1.00 35.96      A16S
ATOM   5471  C5* G   A 265     116.626  66.925 -30.380  1.00 35.96      A16S
ATOM   5472  C4* G   A 265     118.085  66.807 -30.061  1.00 35.96      A16S
ATOM   5473  O4* G   A 265     118.266  66.716 -28.626  1.00 35.96      A16S
ATOM   5474  C1* G   A 265     119.453  65.991 -28.353  1.00 35.96      A16S
ATOM   5475  N9  G   A 265     119.158  64.875 -27.460  1.00 70.09      A16S
ATOM   5476  C4  G   A 265     119.951  64.439 -26.428  1.00 70.09      A16S
ATOM   5477  N3  G   A 265     121.123  64.985 -26.047  1.00 70.09      A16S
ATOM   5478  C2  G   A 265     121.657  64.339 -25.031  1.00 70.09      A16S
ATOM   5479  N2  G   A 265     122.827  64.742 -24.522  1.00 70.09      A16S
ATOM   5480  N1  G   A 265     121.087  63.249 -24.434  1.00 70.09      A16S
ATOM   5481  C6  G   A 265     119.880  62.673 -24.804  1.00 70.09      A16S
ATOM   5482  O6  G   A 265     119.447  61.689 -24.180  1.00 70.09      A16S
ATOM   5483  C5  G   A 265     119.298  63.351 -25.900  1.00 70.09      A16S
ATOM   5484  N7  G   A 265     118.116  63.108 -26.580  1.00 70.09      A16S
ATOM   5485  C8  G   A 265     118.070  64.040 -27.492  1.00 70.09      A16S
ATOM   5486  C2* G   A 265     120.026  65.517 -29.689  1.00 35.96      A16S
ATOM   5487  O2* G   A 265     121.011  66.446 -30.082  1.00 35.96      A16S
ATOM   5488  C3* G   A 265     118.801  65.575 -30.585  1.00 35.96      A16S
ATOM   5489  O3* G   A 265     119.154  65.709 -31.938  1.00 35.96      A16S
ATOM   5490  P   G   A 266     119.380  64.395 -32.829  1.00 48.67      A16S
ATOM   5491  O1P G   A 266     119.484  64.857 -34.243  1.00 61.42      A16S
ATOM   5492  O2P G   A 266     118.362  63.392 -32.470  1.00 61.42      A16S
ATOM   5493  O5* G   A 266     120.787  63.842 -32.327  1.00 48.67      A16S
ATOM   5494  C5* G   A 266     121.971  64.675 -32.345  1.00 48.67      A16S
ATOM   5495  C4* G   A 266     123.130  63.945 -31.711  1.00 48.67      A16S
ATOM   5496  O4* G   A 266     123.282  62.655 -32.339  1.00 48.67      A16S
ATOM   5497  C1* G   A 266     124.444  62.631 -33.125  1.00 48.67      A16S
ATOM   5498  N9  G   A 266     123.994  62.422 -34.493  1.00 61.42      A16S
ATOM   5499  C4  G   A 266     124.221  61.326 -35.249  1.00 61.42      A16S
ATOM   5500  N3  G   A 266     124.932  60.256 -34.875  1.00 61.42      A16S
ATOM   5501  C2  G   A 266     124.941  59.334 -35.814  1.00 61.42      A16S
ATOM   5502  N2  G   A 266     125.614  58.181 -35.628  1.00 61.42      A16S
ATOM   5503  N1  G   A 266     124.293  59.462 -37.014  1.00 61.42      A16S
ATOM   5504  C6  G   A 266     123.557  60.566 -37.409  1.00 61.42      A16S
ATOM   5505  O6  G   A 266     123.012  60.577 -38.498  1.00 61.42      A16S
ATOM   5506  C5  G   A 266     123.549  61.551 -36.435  1.00 61.42      A16S
ATOM   5507  N7  G   A 266     122.935  62.790 -36.433  1.00 61.42      A16S
ATOM   5508  C8  G   A 266     123.227  63.278 -35.261  1.00 61.42      A16S
ATOM   5509  C2* G   A 266     125.174  63.968 -32.977  1.00 48.67      A16S
ATOM   5510  O2* G   A 266     126.544  63.718 -32.719  1.00 48.67      A16S
ATOM   5511  C3* G   A 266     124.487  64.627 -31.781  1.00 48.67      A16S
ATOM   5512  O3* G   A 266     125.218  64.304 -30.620  1.00 48.67      A16S
ATOM   5513  P   C   A 267     124.836  64.979 -29.222  1.00 46.30      A16S
ATOM   5514  O1P C   A 267     123.641  65.839 -29.385  1.00 47.56      A16S
ATOM   5515  O2P C   A 267     126.092  65.550 -28.669  1.00 47.56      A16S
ATOM   5516  O5* C   A 267     124.378  63.736 -28.339  1.00 46.30      A16S
ATOM   5517  C5* C   A 267     125.200  63.242 -27.277  1.00 46.30      A16S
ATOM   5518  C4* C   A 267     124.724  61.882 -26.841  1.00 46.30      A16S
ATOM   5519  O4* C   A 267     123.317  61.953 -26.520  1.00 46.30      A16S
ATOM   5520  C1* C   A 267     122.699  60.725 -26.829  1.00 46.30      A16S
ATOM   5521  N1  C   A 267     121.560  60.976 -27.721  1.00 47.56      A16S
ATOM   5522  C6  C   A 267     121.496  62.101 -28.486  1.00 47.56      A16S
ATOM   5523  C2  C   A 267     120.536  60.038 -27.770  1.00 47.56      A16S
ATOM   5524  O2  C   A 267     120.608  59.036 -27.058  1.00 47.56      A16S
ATOM   5525  N3  C   A 267     119.487  60.243 -28.583  1.00 47.56      A16S
ATOM   5526  C4  C   A 267     119.428  61.341 -29.325  1.00 47.56      A16S
ATOM   5527  N4  C   A 267     118.371  61.498 -30.112  1.00 47.56      A16S
ATOM   5528  C5  C   A 267     120.454  62.326 -29.292  1.00 47.56      A16S
ATOM   5529  C2* C   A 267     123.758  59.790 -27.411  1.00 46.30      A16S
ATOM   5530  O2* C   A 267     124.207  58.925 -26.385  1.00 46.30      A16S
ATOM   5531  C3* C   A 267     124.828  60.774 -27.871  1.00 46.30      A16S
ATOM   5532  O3* C   A 267     126.126  60.193 -27.831  1.00 46.30      A16S
ATOM   5533  P   C   A 268     126.879  59.831 -29.198  1.00 48.97      A16S
ATOM   5534  O1P C   A 268     128.286  59.582 -28.820  1.00 66.74      A16S
ATOM   5535  O2P C   A 268     126.561  60.868 -30.219  1.00 66.74      A16S
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ATOM   5536  O5*  C   A 268     126.234  58.448 -29.644  1.00 48.97      A16S
ATOM   5537  C5*  C   A 268     126.364  57.281 -28.812  1.00 48.97      A16S
ATOM   5538  C4*  C   A 268     125.413  56.203 -29.262  1.00 48.97      A16S
ATOM   5539  O4*  C   A 268     124.041  56.593 -28.991  1.00 48.97      A16S
ATOM   5540  C1*  C   A 268     123.195  56.098 -30.017  1.00 48.97      A16S
ATOM   5541  N1   C   A 268     122.486  57.221 -30.647  1.00 66.74      A16S
ATOM   5542  C6   C   A 268     123.062  58.455 -30.746  1.00 66.74      A16S
ATOM   5543  C2   C   A 268     121.212  56.999 -31.162  1.00 66.74      A16S
ATOM   5544  O2   C   A 268     120.700  55.884 -31.024  1.00 66.74      A16S
ATOM   5545  N3   C   A 268     120.567  58.004 -31.792  1.00 66.74      A16S
ATOM   5546  C4   C   A 268     121.148  59.199 -31.907  1.00 66.74      A16S
ATOM   5547  N4   C   A 268     120.491  60.155 -32.566  1.00 66.74      A16S
ATOM   5548  C5   C   A 268     122.433  59.464 -31.360  1.00 66.74      A16S
ATOM   5549  C2*  C   A 268     124.060  55.332 -31.018  1.00 48.97      A16S
ATOM   5550  O2*  C   A 268     123.968  53.944 -30.750  1.00 48.97      A16S
ATOM   5551  C3*  C   A 268     125.444  55.917 -30.749  1.00 48.97      A16S
ATOM   5552  O3*  C   A 268     126.495  55.026 -31.080  1.00 48.97      A16S
ATOM   5553  P    C   A 269     127.086  55.030 -32.572  1.00 77.07      A16S
ATOM   5554  O1P  C   A 269     128.287  54.148 -32.546  1.00 55.01      A16S
ATOM   5555  O2P  C   A 269     127.225  56.450 -33.011  1.00 55.01      A16S
ATOM   5556  O5*  C   A 269     125.922  54.374 -33.451  1.00 77.07      A16S
ATOM   5557  C5*  C   A 269     125.477  53.025 -33.203  1.00 77.07      A16S
ATOM   5558  C4*  C   A 269     124.306  52.671 -34.094  1.00 77.07      A16S
ATOM   5559  O4*  C   A 269     123.114  53.374 -33.672  1.00 77.07      A16S
ATOM   5560  C1*  C   A 269     122.280  53.605 -34.794  1.00 77.07      A16S
ATOM   5561  N1   C   A 269     121.966  55.044 -34.871  1.00 55.01      A16S
ATOM   5562  C6   C   A 269     122.746  55.964 -34.233  1.00 55.01      A16S
ATOM   5563  C2   C   A 269     120.850  55.459 -35.614  1.00 55.01      A16S
ATOM   5564  O2   C   A 269     120.150  54.612 -36.178  1.00 55.01      A16S
ATOM   5565  N3   C   A 269     120.566  56.774 -35.697  1.00 55.01      A16S
ATOM   5566  C4   C   A 269     121.340  57.663 -35.074  1.00 55.01      A16S
ATOM   5567  N4   C   A 269     121.027  58.954 -35.187  1.00 55.01      A16S
ATOM   5568  C5   C   A 269     122.472  57.269 -34.307  1.00 55.01      A16S
ATOM   5569  C2*  C   A 269     122.992  53.062 -36.037  1.00 77.07      A16S
ATOM   5570  O2*  C   A 269     122.483  51.793 -36.389  1.00 77.07      A16S
ATOM   5571  C3*  C   A 269     124.439  52.989 -35.571  1.00 77.07      A16S
ATOM   5572  O3*  C   A 269     125.128  51.964 -36.263  1.00 77.07      A16S
ATOM   5573  P    A   A 270     125.733  52.259 -37.722  1.00 75.08      A16S
ATOM   5574  O1P  A   A 270     126.606  51.099 -38.065  1.00 65.55      A16S
ATOM   5575  O2P  A   A 270     126.301  53.637 -37.742  1.00 65.55      A16S
ATOM   5576  O5*  A   A 270     124.457  52.255 -38.676  1.00 75.08      A16S
ATOM   5577  C5*  A   A 270     123.892  51.026 -39.144  1.00 75.08      A16S
ATOM   5578  C4*  A   A 270     122.796  51.307 -40.133  1.00 75.08      A16S
ATOM   5579  O4*  A   A 270     121.752  52.054 -39.468  1.00 75.08      A16S
ATOM   5580  C1*  A   A 270     121.199  53.011 -40.358  1.00 75.08      A16S
ATOM   5581  N9   A   A 270     121.420  54.342 -39.787  1.00 65.55      A16S
ATOM   5582  C4   A   A 270     120.647  55.458 -39.986  1.00 65.55      A16S
ATOM   5583  N3   A   A 270     119.547  55.564 -40.748  1.00 65.55      A16S
ATOM   5584  C2   A   A 270     119.058  56.803 -40.702  1.00 65.55      A16S
ATOM   5585  N1   A   A 270     119.510  57.868 -40.032  1.00 65.55      A16S
ATOM   5586  C6   A   A 270     120.616  57.726 -39.273  1.00 65.55      A16S
ATOM   5587  N6   A   A 270     121.065  58.785 -38.600  1.00 65.55      A16S
ATOM   5588  C5   A   A 270     121.231  56.459 -39.238  1.00 65.55      A16S
ATOM   5589  N7   A   A 270     122.359  55.987 -38.583  1.00 65.55      A16S
ATOM   5590  C8   A   A 270     122.428  54.733 -38.942  1.00 65.55      A16S
ATOM   5591  C2*  A   A 270     121.876  52.821 -41.713  1.00 75.08      A16S
ATOM   5592  O2*  A   A 270     121.093  51.968 -42.523  1.00 75.08      A16S
ATOM   5593  C3*  A   A 270     123.193  52.181 -41.306  1.00 75.08      A16S
ATOM   5594  O3*  A   A 270     123.763  51.439 -42.362  1.00 75.08      A16S
ATOM   5595  P    C   A 271     124.756  52.173 -43.382  1.00 73.37      A16S
ATOM   5596  O1P  C   A 271     125.297  51.147 -44.308  1.00 83.76      A16S
ATOM   5597  O2P  C   A 271     125.692  52.967 -42.550  1.00 83.76      A16S
ATOM   5598  O5*  C   A 271     123.813  53.175 -44.192  1.00 73.37      A16S
ATOM   5599  C5*  C   A 271     122.788  52.670 -45.061  1.00 73.37      A16S
ATOM   5600  C4*  C   A 271     121.842  53.772 -45.482  1.00 73.37      A16S
ATOM   5601  O4*  C   A 271     121.094  54.251 -44.335  1.00 73.37      A16S
ATOM   5602  C1*  C   A 271     120.801  55.634 -44.497  1.00 73.37      A16S
ATOM   5603  N1   C   A 271     121.476  56.403 -43.436  1.00 83.76      A16S
ATOM   5604  C6   C   A 271     122.566  55.900 -42.782  1.00 83.76      A16S
ATOM   5605  C2   C   A 271     121.002  57.685 -43.134  1.00 83.76      A16S
ATOM   5606  O2   C   A 271     119.992  58.106 -43.716  1.00 83.76      A16S
ATOM   5607  N3   C   A 271     121.655  58.429 -42.223  1.00 83.76      A16S
ATOM   5608  C4   C   A 271     122.737  57.942 -41.618  1.00 83.76      A16S
ATOM   5609  N4   C   A 271     123.373  58.729 -40.747  1.00 83.76      A16S
ATOM   5610  C5   C   A 271     123.223  56.629 -41.881  1.00 83.76      A16S
ATOM   5611  C2*  C   A 271     121.359  56.067 -45.849  1.00 73.37      A16S
ATOM   5612  O2*  C   A 271     120.322  56.049 -46.810  1.00 73.37      A16S
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ATOM   5613  C3* C   A 271     122.457  55.034 -46.065  1.00 73.37      A16S
ATOM   5614  O3* C   A 271     122.837  54.916 -47.421  1.00 73.37      A16S
ATOM   5615  P   C   A 272     124.137  55.704 -47.937  1.00 76.52      A16S
ATOM   5616  O1P C   A 272     124.481  55.163 -49.279  1.00 57.85      A16S
ATOM   5617  O2P C   A 272     125.169  55.690 -46.857  1.00 57.85      A16S
ATOM   5618  O5* C   A 272     123.605  57.192 -48.124  1.00 76.52      A16S
ATOM   5619  C5* C   A 272     122.566  57.473 -49.067  1.00 76.52      A16S
ATOM   5620  C4* C   A 272     122.069  58.890 -48.908  1.00 76.52      A16S
ATOM   5621  O4* C   A 272     121.545  59.074 -47.568  1.00 76.52      A16S
ATOM   5622  C1* C   A 272     121.714  60.424 -47.174  1.00 76.52      A16S
ATOM   5623  N1  C   A 272     122.526  60.481 -45.943  1.00 57.85      A16S
ATOM   5624  C6  C   A 272     123.174  59.378 -45.457  1.00 57.85      A16S
ATOM   5625  C2  C   A 272     122.621  61.708 -45.268  1.00 57.85      A16S
ATOM   5626  O2  C   A 272     122.038  62.695 -45.740  1.00 57.85      A16S
ATOM   5627  N3  C   A 272     123.339  61.786 -44.128  1.00 57.85      A16S
ATOM   5628  C4  C   A 272     123.952  60.702 -43.654  1.00 57.85      A16S
ATOM   5629  N4  C   A 272     124.630  60.823 -42.511  1.00 57.85      A16S
ATOM   5630  C5  C   A 272     123.892  59.443 -44.328  1.00 57.85      A16S
ATOM   5631  C2* C   A 272     122.389  61.163 -48.325  1.00 76.52      A16S
ATOM   5632  O2* C   A 272     121.402  61.805 -49.108  1.00 76.52      A16S
ATOM   5633  C3* C   A 272     123.074  60.023 -49.062  1.00 76.52      A16S
ATOM   5634  O3* C   A 272     123.328  60.385 -50.412  1.00 76.52      A16S
ATOM   5635  P   A   A 273     124.731  61.079 -50.789  1.00 75.04      A16S
ATOM   5636  O1P A   A 273     124.743  61.289 -52.263  1.00 53.96      A16S
ATOM   5637  O2P A   A 273     125.818  60.279 -50.142  1.00 53.96      A16S
ATOM   5638  O5* A   A 273     124.667  62.510 -50.083  1.00 75.04      A16S
ATOM   5639  C5* A   A 273     123.698  63.492 -50.495  1.00 75.04      A16S
ATOM   5640  C4* A   A 273     123.857  64.775 -49.703  1.00 75.04      A16S
ATOM   5641  O4* A   A 273     123.465  64.574 -48.321  1.00 75.04      A16S
ATOM   5642  C1* A   A 273     124.265  65.381 -47.475  1.00 75.04      A16S
ATOM   5643  N9  A   A 273     125.029  64.499 -46.591  1.00 53.96      A16S
ATOM   5644  C4  A   A 273     125.668  64.847 -45.420  1.00 53.96      A16S
ATOM   5645  N3  A   A 273     125.731  66.062 -44.848  1.00 53.96      A16S
ATOM   5646  C2  A   A 273     126.425  66.011 -43.711  1.00 53.96      A16S
ATOM   5647  N1  A   A 273     127.010  64.969 -43.123  1.00 53.96      A16S
ATOM   5648  C6  A   A 273     126.920  63.758 -43.713  1.00 53.96      A16S
ATOM   5649  N6  A   A 273     127.479  62.705 -43.106  1.00 53.96      A16S
ATOM   5650  C5  A   A 273     126.227  63.676 -44.934  1.00 53.96      A16S
ATOM   5651  N7  A   A 273     125.961  62.613 -45.786  1.00 53.96      A16S
ATOM   5652  C8  A   A 273     125.252  63.152 -46.750  1.00 53.96      A16S
ATOM   5653  C2* A   A 273     125.161  66.229 -48.373  1.00 75.04      A16S
ATOM   5654  O2* A   A 273     124.494  67.444 -48.643  1.00 75.04      A16S
ATOM   5655  C3* A   A 273     125.254  65.363 -49.620  1.00 75.04      A16S
ATOM   5656  O3* A   A 273     125.575  66.128 -50.771  1.00 75.04      A16S
ATOM   5657  P   A   A 274     127.117  66.295 -51.206  1.00 82.53      A16S
ATOM   5658  O1P A   A 274     127.128  67.208 -52.379  1.00 45.01      A16S
ATOM   5659  O2P A   A 274     127.764  64.951 -51.310  1.00 45.01      A16S
ATOM   5660  O5* A   A 274     127.780  67.082 -49.984  1.00 82.53      A16S
ATOM   5661  C5* A   A 274     127.326  68.406 -49.608  1.00 82.53      A16S
ATOM   5662  C4* A   A 274     128.181  68.957 -48.489  1.00 82.53      A16S
ATOM   5663  O4* A   A 274     128.068  68.080 -47.339  1.00 82.53      A16S
ATOM   5664  C1* A   A 274     129.353  67.688 -46.929  1.00 82.53      A16S
ATOM   5665  N9  A   A 274     129.308  66.320 -46.434  1.00 45.01      A16S
ATOM   5666  C4  A   A 274     129.742  65.934 -45.192  1.00 45.01      A16S
ATOM   5667  N3  A   A 274     130.198  66.727 -44.207  1.00 45.01      A16S
ATOM   5668  C2  A   A 274     130.560  66.002 -43.152  1.00 45.01      A16S
ATOM   5669  N1  A   A 274     130.536  64.678 -42.989  1.00 45.01      A16S
ATOM   5670  C6  A   A 274     130.089  63.911 -44.001  1.00 45.01      A16S
ATOM   5671  N6  A   A 274     130.115  62.591 -43.851  1.00 45.01      A16S
ATOM   5672  C5  A   A 274     129.640  64.558 -45.166  1.00 45.01      A16S
ATOM   5673  N7  A   A 274     129.096  64.085 -46.352  1.00 45.01      A16S
ATOM   5674  C8  A   A 274     128.908  65.170 -47.066  1.00 45.01      A16S
ATOM   5675  C2* A   A 274     130.252  67.828 -48.152  1.00 82.53      A16S
ATOM   5676  O2* A   A 274     131.600  67.987 -47.771  1.00 82.53      A16S
ATOM   5677  C3* A   A 274     129.674  69.069 -48.806  1.00 82.53      A16S
ATOM   5678  O3* A   A 274     130.264  70.192 -48.157  1.00 82.53      A16S
ATOM   5679  P   G   A 275     129.803  71.674 -48.552  1.00 57.82      A16S
ATOM   5680  O1P G   A 275     129.092  71.604 -49.847  1.00 46.50      A16S
ATOM   5681  O2P G   A 275     130.938  72.609 -48.400  1.00 46.50      A16S
ATOM   5682  O5* G   A 275     128.729  72.010 -47.431  1.00 57.82      A16S
ATOM   5683  C5* G   A 275     129.143  72.541 -46.175  1.00 57.82      A16S
ATOM   5684  C4* G   A 275     128.522  71.775 -45.040  1.00 57.82      A16S
ATOM   5685  O4* G   A 275     128.971  70.394 -45.040  1.00 57.82      A16S
ATOM   5686  C1* G   A 275     129.336  69.999 -43.726  1.00 57.82      A16S
ATOM   5687  N9  G   A 275     130.784  69.786 -43.729  1.00 46.50      A16S
ATOM   5688  C4  G   A 275     131.614  69.571 -42.648  1.00 46.50      A16S
ATOM   5689  N3  G   A 275     131.238  69.478 -41.361  1.00 46.50      A16S
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ATOM   5690  C2  G   A 275     132.278  69.319 -40.556  1.00 46.50      A16S
ATOM   5691  N2  G   A 275     132.101  69.229 -39.235  1.00 46.50      A16S
ATOM   5692  N1  G   A 275     133.574  69.247 -40.981  1.00 46.50      A16S
ATOM   5693  C6  G   A 275     133.983  69.340 -42.299  1.00 46.50      A16S
ATOM   5694  O6  G   A 275     135.186  69.280 -42.576  1.00 46.50      A16S
ATOM   5695  C5  G   A 275     132.885  69.510 -43.173  1.00 46.50      A16S
ATOM   5696  N7  G   A 275     132.858  69.649 -44.551  1.00 46.50      A16S
ATOM   5697  C8  G   A 275     131.596  69.801 -44.837  1.00 46.50      A16S
ATOM   5698  C2* G   A 275     128.918  71.135 -42.787  1.00 57.82      A16S
ATOM   5699  O2* G   A 275     127.613  70.911 -42.302  1.00 57.82      A16S
ATOM   5700  C3* G   A 275     128.987  72.336 -43.718  1.00 57.82      A16S
ATOM   5701  O3* G   A 275     128.158  73.423 -43.355  1.00 57.82      A16S
ATOM   5702  P   G   A 276     128.829  74.803 -42.912  1.00 36.73      A16S
ATOM   5703  O1P G   A 276     127.765  75.834 -42.913  1.00 35.91      A16S
ATOM   5704  O2P G   A 276     130.050  75.011 -43.721  1.00 35.91      A16S
ATOM   5705  O5* G   A 276     129.294  74.504 -41.423  1.00 36.73      A16S
ATOM   5706  C5* G   A 276     128.336  74.066 -40.457  1.00 36.73      A16S
ATOM   5707  C4* G   A 276     129.025  73.605 -39.210  1.00 36.73      A16S
ATOM   5708  O4* G   A 276     129.786  72.416 -39.507  1.00 36.73      A16S
ATOM   5709  C1* G   A 276     130.976  72.414 -38.740  1.00 36.73      A16S
ATOM   5710  N9  G   A 276     132.106  72.446 -39.658  1.00 35.91      A16S
ATOM   5711  C4  G   A 276     133.423  72.343 -39.312  1.00 35.91      A16S
ATOM   5712  N3  G   A 276     133.898  72.204 -38.063  1.00 35.91      A16S
ATOM   5713  C2  G   A 276     135.213  72.155 -38.047  1.00 35.91      A16S
ATOM   5714  N2  G   A 276     135.854  72.029 -36.894  1.00 35.91      A16S
ATOM   5715  N1  G   A 276     135.995  72.228 -39.164  1.00 35.91      A16S
ATOM   5716  C6  G   A 276     135.520  72.364 -40.458  1.00 35.91      A16S
ATOM   5717  O6  G   A 276     136.312  72.415 -41.397  1.00 35.91      A16S
ATOM   5718  C5  G   A 276     134.119  72.425 -40.492  1.00 35.91      A16S
ATOM   5719  N7  G   A 276     133.255  72.574 -41.564  1.00 35.91      A16S
ATOM   5720  C8  G   A 276     132.071  72.585 -41.023  1.00 35.91      A16S
ATOM   5721  C2* G   A 276     130.956  73.647 -37.841  1.00 36.73      A16S
ATOM   5722  O2* G   A 276     130.451  73.297 -36.568  1.00 36.73      A16S
ATOM   5723  C3* G   A 276     130.034  74.569 -38.621  1.00 36.73      A16S
ATOM   5724  O3* G   A 276     129.423  75.536 -37.791  1.00 36.73      A16S
ATOM   5725  P   C   A 277     130.027  77.016 -37.744  1.00 30.36      A16S
ATOM   5726  O1P C   A 277     129.202  77.789 -36.794  1.00 33.82      A16S
ATOM   5727  O2P C   A 277     130.208  77.494 -39.143  1.00 33.82      A16S
ATOM   5728  O5* C   A 277     131.462  76.827 -37.103  1.00 30.36      A16S
ATOM   5729  C5* C   A 277     131.568  76.327 -35.782  1.00 30.36      A16S
ATOM   5730  C4* C   A 277     132.999  76.316 -35.329  1.00 30.36      A16S
ATOM   5731  O4* C   A 277     133.735  75.196 -35.879  1.00 30.36      A16S
ATOM   5732  C1* C   A 277     135.102  75.533 -35.947  1.00 30.36      A16S
ATOM   5733  N1  C   A 277     135.529  75.502 -37.342  1.00 33.82      A16S
ATOM   5734  C6  C   A 277     134.632  75.642 -38.362  1.00 33.82      A16S
ATOM   5735  C2  C   A 277     136.884  75.363 -37.611  1.00 33.82      A16S
ATOM   5736  O2  C   A 277     137.666  75.209 -36.657  1.00 33.82      A16S
ATOM   5737  N3  C   A 277     137.314  75.400 -38.895  1.00 33.82      A16S
ATOM   5738  C4  C   A 277     136.435  75.561 -39.882  1.00 33.82      A16S
ATOM   5739  N4  C   A 277     136.895  75.609 -41.123  1.00 33.82      A16S
ATOM   5740  C5  C   A 277     135.040  75.682 -39.635  1.00 33.82      A16S
ATOM   5741  C2* C   A 277     135.241  76.959 -35.428  1.00 30.36      A16S
ATOM   5742  O2* C   A 277     135.499  76.907 -34.041  1.00 30.36      A16S
ATOM   5743  C3* C   A 277     133.852  77.505 -35.695  1.00 30.36      A16S
ATOM   5744  O3* C   A 277     133.571  78.613 -34.893  1.00 30.36      A16S
ATOM   5745  P   G   A 278     133.884  80.074 -35.451  1.00 33.93      A16S
ATOM   5746  O1P G   A 278     133.348  80.989 -34.418  1.00 42.54      A16S
ATOM   5747  O2P G   A 278     133.444  80.199 -36.865  1.00 42.54      A16S
ATOM   5748  O5* G   A 278     135.466  80.151 -35.402  1.00 33.93      A16S
ATOM   5749  C5* G   A 278     136.155  80.024 -34.160  1.00 33.93      A16S
ATOM   5750  C4* G   A 278     137.636  80.036 -34.391  1.00 33.93      A16S
ATOM   5751  O4* G   A 278     138.013  78.898 -35.203  1.00 33.93      A16S
ATOM   5752  C1* G   A 278     139.080  79.260 -36.063  1.00 33.93      A16S
ATOM   5753  N9  G   A 278     138.644  79.113 -37.450  1.00 42.54      A16S
ATOM   5754  C4  G   A 278     139.458  78.985 -38.546  1.00 42.54      A16S
ATOM   5755  N3  G   A 278     140.802  78.963 -38.533  1.00 42.54      A16S
ATOM   5756  C2  G   A 278     141.309  78.849 -39.740  1.00 42.54      A16S
ATOM   5757  N2  G   A 278     142.643  78.808 -39.902  1.00 42.54      A16S
ATOM   5758  N1  G   A 278     140.553  78.763 -40.874  1.00 42.54      A16S
ATOM   5759  C6  G   A 278     139.165  78.779 -40.908  1.00 42.54      A16S
ATOM   5760  O6  G   A 278     138.571  78.690 -41.991  1.00 42.54      A16S
ATOM   5761  C5  G   A 278     138.614  78.901 -39.619  1.00 42.54      A16S
ATOM   5762  N7  G   A 278     137.291  78.964 -39.212  1.00 42.54      A16S
ATOM   5763  C8  G   A 278     137.358  79.087 -37.919  1.00 42.54      A16S
ATOM   5764  C2* G   A 278     139.458  80.701 -35.739  1.00 33.93      A16S
ATOM   5765  O2* G   A 278     140.488  80.635 -34.781  1.00 33.93      A16S
ATOM   5766  C3* G   A 278     138.154  81.233 -35.162  1.00 33.93      A16S
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ATOM   5767  O3* G   A 278     138.326  82.342 -34.299  1.00 33.93      A16S
ATOM   5768  P    A  A 279     138.134  83.833 -34.869  1.00 42.08      A16S
ATOM   5769  O1P A   A 279     137.278  84.519 -33.885  1.00 45.11      A16S
ATOM   5770  O2P A   A 279     137.690  83.757 -36.267  1.00 45.11      A16S
ATOM   5771  O5* A   A 279     139.617  84.442 -34.834  1.00 42.08      A16S
ATOM   5772  C5* A   A 279     140.076  85.256 -33.702  1.00 42.08      A16S
ATOM   5773  C4* A   A 279     141.319  86.046 -34.071  1.00 42.08      A16S
ATOM   5774  O4* A   A 279     142.401  85.111 -34.231  1.00 42.08      A16S
ATOM   5775  C1* A   A 279     143.217  85.518 -35.301  1.00 42.08      A16S
ATOM   5776  N9   A  A 279     143.442  84.367 -36.157  1.00 45.11      A16S
ATOM   5777  C4   A  A 279     144.678  83.859 -36.411  1.00 45.11      A16S
ATOM   5778  N3   A  A 279     145.841  84.352 -35.979  1.00 45.11      A16S
ATOM   5779  C2   A  A 279     146.831  83.572 -36.367  1.00 45.11      A16S
ATOM   5780  N1   A  A 279     146.784  82.437 -37.082  1.00 45.11      A16S
ATOM   5781  C6   A  A 279     145.584  81.982 -37.494  1.00 45.11      A16S
ATOM   5782  N6   A  A 279     145.526  80.858 -38.190  1.00 45.11      A16S
ATOM   5783  C5   A  A 279     144.473  82.714 -37.160  1.00 45.11      A16S
ATOM   5784  N7   A  A 279     143.125  82.520 -37.418  1.00 45.11      A16S
ATOM   5785  C8   A  A 279     142.550  83.536 -36.813  1.00 45.11      A16S
ATOM   5786  C2* A   A 279     142.625  86.759 -35.963  1.00 42.08      A16S
ATOM   5787  O2* A   A 279     143.407  87.870 -35.609  1.00 42.08      A16S
ATOM   5788  C3* A   A 279     141.211  86.807 -35.392  1.00 42.08      A16S
ATOM   5789  O3* A   A 279     140.785  88.195 -35.292  1.00 42.08      A16S
ATOM   5790  P    C  A 280     140.997  89.044 -33.928  1.00 37.23      A16S
ATOM   5791  O1P C   A 280     140.807  90.467 -34.277  1.00 63.94      A16S
ATOM   5792  O2P C   A 280     142.254  88.627 -33.272  1.00 63.94      A16S
ATOM   5793  O5* C   A 280     139.796  88.630 -32.970  1.00 37.23      A16S
ATOM   5794  C5* C   A 280     139.905  88.804 -31.542  1.00 37.23      A16S
ATOM   5795  C4* C   A 280     138.667  88.283 -30.849  1.00 37.23      A16S
ATOM   5796  O4* C   A 280     137.543  89.112 -31.227  1.00 37.23      A16S
ATOM   5797  C1* C   A 280     136.538  88.311 -31.807  1.00 37.23      A16S
ATOM   5798  N1   C  A 280     135.968  89.044 -32.943  1.00 63.94      A16S
ATOM   5799  C6   C  A 280     136.781  89.737 -33.790  1.00 63.94      A16S
ATOM   5800  C2   C  A 280     134.588  89.023 -33.148  1.00 63.94      A16S
ATOM   5801  O2   C  A 280     133.864  88.378 -32.370  1.00 63.94      A16S
ATOM   5802  N3   C  A 280     134.076  89.703 -34.189  1.00 63.94      A16S
ATOM   5803  C4   C  A 280     134.886  90.375 -35.009  1.00 63.94      A16S
ATOM   5804  N4   C  A 280     134.345  91.034 -36.027  1.00 63.94      A16S
ATOM   5805  C5   C  A 280     136.286  90.405 -34.823  1.00 63.94      A16S
ATOM   5806  C2* C   A 280     137.208  87.008 -32.236  1.00 37.23      A16S
ATOM   5807  O2* C   A 280     136.259  85.965 -32.211  1.00 37.23      A16S
ATOM   5808  C3* C   A 280     138.282  86.843 -31.173  1.00 37.23      A16S
ATOM   5809  O3* C   A 280     137.663  86.254 -30.041  1.00 37.23      A16S
ATOM   5810  P    G  A 281     138.467  85.194 -29.150  1.00 40.45      A16S
ATOM   5811  O1P G   A 281     137.455  84.226 -28.623  1.00 46.77      A16S
ATOM   5812  O2P G   A 281     139.302  85.978 -28.191  1.00 46.77      A16S
ATOM   5813  O5* G   A 281     139.437  84.468 -30.192  1.00 40.45      A16S
ATOM   5814  C5* G   A 281     139.019  83.308 -30.943  1.00 40.45      A16S
ATOM   5815  C4* G   A 281     140.158  82.318 -31.034  1.00 40.45      A16S
ATOM   5816  O4* G   A 281     141.267  82.953 -31.727  1.00 40.45      A16S
ATOM   5817  C1* G   A 281     142.420  82.972 -30.904  1.00 40.45      A16S
ATOM   5818  N9   G  A 281     143.073  84.270 -31.053  1.00 46.77      A16S
ATOM   5819  C4   G  A 281     144.341  84.502 -31.533  1.00 46.77      A16S
ATOM   5820  N3   G  A 281     145.188  83.572 -32.008  1.00 46.77      A16S
ATOM   5821  C2   G  A 281     146.353  84.087 -32.332  1.00 46.77      A16S
ATOM   5822  N2   G  A 281     147.316  83.293 -32.805  1.00 46.77      A16S
ATOM   5823  N1   G  A 281     146.661  85.413 -32.209  1.00 46.77      A16S
ATOM   5824  C6   G  A 281     145.802  86.393 -31.730  1.00 46.77      A16S
ATOM   5825  O6   G  A 281     146.185  87.568 -31.653  1.00 46.77      A16S
ATOM   5826  C5   G  A 281     144.549  85.853 -31.379  1.00 46.77      A16S
ATOM   5827  N7   G  A 281     143.420  86.471 -30.866  1.00 46.77      A16S
ATOM   5828  C8   G  A 281     142.567  85.498 -30.698  1.00 46.77      A16S
ATOM   5829  C2* G   A 281     141.975  82.724 -29.465  1.00 40.45      A16S
ATOM   5830  O2* G   A 281     143.017  82.079 -28.782  1.00 40.45      A16S
ATOM   5831  C3* G   A 281     140.720  81.900 -29.687  1.00 40.45      A16S
ATOM   5832  O3* G   A 281     140.174  80.817 -28.912  1.00 40.45      A16S
ATOM   5833  P    A  A 282     141.060  79.516 -28.566  1.00 27.73      A16S
ATOM   5834  O1P A   A 282     140.856  79.219 -27.125  1.00 46.82      A16S
ATOM   5835  O2P A   A 282     142.431  79.690 -29.083  1.00 46.82      A16S
ATOM   5836  O5* A   A 282     140.396  78.347 -29.413  1.00 27.73      A16S
ATOM   5837  C5* A   A 282     138.971  78.239 -29.538  1.00 27.73      A16S
ATOM   5838  C4* A   A 282     138.619  77.565 -30.840  1.00 27.73      A16S
ATOM   5839  O4* A   A 282     139.196  78.339 -31.915  1.00 27.73      A16S
ATOM   5840  C1* A   A 282     139.762  77.479 -32.881  1.00 27.73      A16S
ATOM   5841  N9   A  A 282     141.216  77.639 -32.832  1.00 46.82      A16S
ATOM   5842  C4   A  A 282     142.138  76.820 -33.435  1.00 46.82      A16S
ATOM   5843  N3   A  A 282     141.893  75.739 -34.193  1.00 46.82      A16S
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ATOM   5844  C2  A   A 282     143.030  75.181 -34.588  1.00 46.82      A16S
ATOM   5845  N1  A   A 282     144.290  75.556 -34.337  1.00 46.82      A16S
ATOM   5846  C6  A   A 282     144.501  76.651 -33.582  1.00 46.82      A16S
ATOM   5847  N6  A   A 282     145.753  77.032 -33.352  1.00 46.82      A16S
ATOM   5848  C5  A   A 282     143.376  77.329 -33.090  1.00 46.82      A16S
ATOM   5849  N7  A   A 282     143.239  78.454 -32.290  1.00 46.82      A16S
ATOM   5850  C8  A   A 282     141.943  78.600 -32.172  1.00 46.82      A16S
ATOM   5851  C2* A   A 282     139.343  76.063 -32.509  1.00 27.73      A16S
ATOM   5852  O2* A   A 282     138.106  75.825 -33.124  1.00 27.73      A16S
ATOM   5853  C3* A   A 282     139.194  76.174 -31.007  1.00 27.73      A16S
ATOM   5854  O3* A   A 282     138.283  75.208 -30.530  1.00 27.73      A16S
ATOM   5855  P   C   A 283     138.728  74.210 -29.360  1.00 45.34      A16S
ATOM   5856  O1P C   A 283     137.686  73.170 -29.242  1.00 50.23      A16S
ATOM   5857  O2P C   A 283     139.073  75.040 -28.178  1.00 50.23      A16S
ATOM   5858  O5* C   A 283     140.038  73.514 -29.932  1.00 45.34      A16S
ATOM   5859  C5* C   A 283     139.949  72.546 -30.989  1.00 45.34      A16S
ATOM   5860  C4* C   A 283     141.328  72.099 -31.409  1.00 45.34      A16S
ATOM   5861  O4* C   A 283     142.006  73.177 -32.101  1.00 45.34      A16S
ATOM   5862  C1* C   A 283     143.372  73.200 -31.735  1.00 45.34      A16S
ATOM   5863  N1  C   A 283     143.616  74.444 -30.983  1.00 50.23      A16S
ATOM   5864  C6  C   A 283     142.572  75.220 -30.561  1.00 50.23      A16S
ATOM   5865  C2  C   A 283     144.925  74.812 -30.687  1.00 50.23      A16S
ATOM   5866  O2  C   A 283     145.844  74.120 -31.104  1.00 50.23      A16S
ATOM   5867  N3  C   A 283     145.155  75.917 -29.951  1.00 50.23      A16S
ATOM   5868  C4  C   A 283     144.130  76.654 -29.523  1.00 50.23      A16S
ATOM   5869  N4  C   A 283     144.400  77.727 -28.770  1.00 50.23      A16S
ATOM   5870  C5  C   A 283     142.780  76.322 -29.837  1.00 50.23      A16S
ATOM   5871  C2* C   A 283     143.624  71.953 -30.888  1.00 45.34      A16S
ATOM   5872  O2* C   A 283     143.925  70.878 -31.745  1.00 45.34      A16S
ATOM   5873  C3* C   A 283     142.259  71.720 -30.274  1.00 45.34      A16S
ATOM   5874  O3* C   A 283     142.089  70.370 -29.895  1.00 45.34      A16S
ATOM   5875  P   G   A 284     142.367  69.937 -28.373  1.00 39.51      A16S
ATOM   5876  O1P G   A 284     142.144  68.475 -28.340  1.00 38.21      A16S
ATOM   5877  O2P G   A 284     141.621  70.804 -27.429  1.00 38.21      A16S
ATOM   5878  O5* G   A 284     143.917  70.237 -28.163  1.00 39.51      A16S
ATOM   5879  C5* G   A 284     144.891  69.531 -28.924  1.00 39.51      A16S
ATOM   5880  C4* G   A 284     146.272  70.068 -28.662  1.00 39.51      A16S
ATOM   5881  O4* G   A 284     146.391  71.409 -29.193  1.00 39.51      A16S
ATOM   5882  C1* G   A 284     147.321  72.141 -28.415  1.00 39.51      A16S
ATOM   5883  N9  G   A 284     146.638  73.289 -27.828  1.00 38.21      A16S
ATOM   5884  C4  G   A 284     147.227  74.316 -27.131  1.00 38.21      A16S
ATOM   5885  N3  G   A 284     148.543  74.453 -26.880  1.00 38.21      A16S
ATOM   5886  C2  G   A 284     148.800  75.552 -26.202  1.00 38.21      A16S
ATOM   5887  N2  G   A 284     150.052  75.861 -25.897  1.00 38.21      A16S
ATOM   5888  N1  G   A 284     147.846  76.430 -25.781  1.00 38.21      A16S
ATOM   5889  C6  G   A 284     146.486  76.295 -26.015  1.00 38.21      A16S
ATOM   5890  O6  G   A 284     145.707  77.125 -25.575  1.00 38.21      A16S
ATOM   5891  C5  G   A 284     146.196  75.145 -26.760  1.00 38.21      A16S
ATOM   5892  N7  G   A 284     144.982  74.660 -27.218  1.00 38.21      A16S
ATOM   5893  C8  G   A 284     145.292  73.558 -27.845  1.00 38.21      A16S
ATOM   5894  C2* G   A 284     147.861  71.199 -27.340  1.00 39.51      A16S
ATOM   5895  O2* G   A 284     149.054  70.587 -27.798  1.00 39.51      A16S
ATOM   5896  C3* G   A 284     146.725  70.195 -27.218  1.00 39.51      A16S
ATOM   5897  O3* G   A 284     147.170  68.974 -26.641  1.00 39.51      A16S
ATOM   5898  P   G   A 285     147.096  68.783 -25.042  1.00 40.60      A16S
ATOM   5899  O1P G   A 285     147.556  67.406 -24.750  1.00 44.27      A16S
ATOM   5900  O2P G   A 285     145.762  69.225 -24.570  1.00 44.27      A16S
ATOM   5901  O5* G   A 285     148.193  69.791 -24.481  1.00 40.60      A16S
ATOM   5902  C5* G   A 285     149.571  69.622 -24.857  1.00 40.60      A16S
ATOM   5903  C4* G   A 285     150.431  70.708 -24.263  1.00 40.60      A16S
ATOM   5904  O4* G   A 285     150.118  71.977 -24.884  1.00 40.60      A16S
ATOM   5905  C1* G   A 285     150.243  73.019 -23.928  1.00 40.60      A16S
ATOM   5906  N9  G   A 285     148.924  73.605 -23.719  1.00 44.27      A16S
ATOM   5907  C4  G   A 285     148.648  74.736 -23.004  1.00 44.27      A16S
ATOM   5908  N3  G   A 285     149.549  75.496 -22.366  1.00 44.27      A16S
ATOM   5909  C2  G   A 285     148.987  76.533 -21.781  1.00 44.27      A16S
ATOM   5910  N2  G   A 285     149.741  77.397 -21.110  1.00 44.27      A16S
ATOM   5911  N1  G   A 285     147.643  76.799 -21.815  1.00 44.27      A16S
ATOM   5912  C6  G   A 285     146.694  76.028 -22.468  1.00 44.27      A16S
ATOM   5913  O6  G   A 285     145.502  76.366 -22.447  1.00 44.27      A16S
ATOM   5914  C5  G   A 285     147.287  74.909 -23.099  1.00 44.27      A16S
ATOM   5915  N7  G   A 285     146.714  73.894 -23.851  1.00 44.27      A16S
ATOM   5916  C8  G   A 285     147.721  73.142 -24.193  1.00 44.27      A16S
ATOM   5917  C2* G   A 285     150.752  72.391 -22.636  1.00 40.60      A16S
ATOM   5918  O2* G   A 285     152.159  72.457 -22.583  1.00 40.60      A16S
ATOM   5919  C3* G   A 285     150.252  70.969 -22.784  1.00 40.60      A16S
ATOM   5920  O3* G   A 285     150.949  70.081 -21.953  1.00 40.60      A16S
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ATOM	5921	P	G	A	286	150.331	69.736	-20.514	1.00	38.68	A16S
ATOM	5922	O1P	G	A	286	151.205	68.717	-19.858	1.00	41.39	A16S
ATOM	5923	O2P	G	A	286	148.870	69.452	-20.694	1.00	41.39	A16S
ATOM	5924	O5*	G	A	286	150.492	71.100	-19.705	1.00	38.68	A16S
ATOM	5925	C5*	G	A	286	151.796	71.644	-19.472	1.00	38.68	A16S
ATOM	5926	C4*	G	A	286	151.712	72.876	-18.613	1.00	38.68	A16S
ATOM	5927	O4*	G	A	286	151.096	73.962	-19.343	1.00	38.68	A16S
ATOM	5928	C1*	G	A	286	150.389	74.797	-18.452	1.00	38.68	A16S
ATOM	5929	N9	G	A	286	148.988	74.812	-18.855	1.00	41.39	A16S
ATOM	5930	C4	G	A	286	148.039	75.730	-18.488	1.00	41.39	A16S
ATOM	5931	N3	G	A	286	148.244	76.820	-17.731	1.00	41.39	A16S
ATOM	5932	C2	G	A	286	147.134	77.497	-17.536	1.00	41.39	A16S
ATOM	5933	N2	G	A	286	147.162	78.615	-16.816	1.00	41.39	A16S
ATOM	5934	N1	G	A	286	145.916	77.131	-18.034	1.00	41.39	A16S
ATOM	5935	C6	G	A	286	145.683	76.007	-18.816	1.00	41.39	A16S
ATOM	5936	O6	G	A	286	144.542	75.752	-19.212	1.00	41.39	A16S
ATOM	5937	C5	G	A	286	146.865	75.283	-19.045	1.00	41.39	A16S
ATOM	5938	N7	G	A	286	147.075	74.128	-19.781	1.00	41.39	A16S
ATOM	5939	C8	G	A	286	148.349	73.890	-19.646	1.00	41.39	A16S
ATOM	5940	C2*	G	A	286	150.561	74.209	-17.054	1.00	38.68	A16S
ATOM	5941	O2*	G	A	286	151.643	74.823	-16.409	1.00	38.68	A16S
ATOM	5942	C3*	G	A	286	150.885	72.761	-17.358	1.00	38.68	A16S
ATOM	5943	O3*	G	A	286	151.591	72.156	-16.295	1.00	38.68	A16S
ATOM	5944	P	U	A	287	150.773	71.308	-15.208	1.00	39.58	A16S
ATOM	5945	O1P	U	A	287	151.723	70.703	-14.243	1.00	42.96	A16S
ATOM	5946	O2P	U	A	287	149.817	70.434	-15.955	1.00	42.96	A16S
ATOM	5947	O5*	U	A	287	149.945	72.419	-14.421	1.00	39.58	A16S
ATOM	5948	C5*	U	A	287	150.618	73.544	-13.834	1.00	39.58	A16S
ATOM	5949	C4*	U	A	287	149.626	74.595	-13.384	1.00	39.58	A16S
ATOM	5950	O4*	U	A	287	149.041	75.285	-14.517	1.00	39.58	A16S
ATOM	5951	C1*	U	A	287	147.722	75.685	-14.201	1.00	39.58	A16S
ATOM	5952	N1	U	A	287	146.781	75.021	-15.117	1.00	42.96	A16S
ATOM	5953	C6	U	A	287	147.091	73.858	-15.762	1.00	42.96	A16S
ATOM	5954	C2	U	A	287	145.547	75.603	-15.281	1.00	42.96	A16S
ATOM	5955	O2	U	A	287	145.246	76.665	-14.777	1.00	42.96	A16S
ATOM	5956	N3	U	A	287	144.673	74.905	-16.068	1.00	42.96	A16S
ATOM	5957	C4	U	A	287	144.906	73.729	-16.711	1.00	42.96	A16S
ATOM	5958	O4	U	A	287	143.998	73.206	-17.353	1.00	42.96	A16S
ATOM	5959	C5	U	A	287	146.221	73.210	-16.534	1.00	42.96	A16S
ATOM	5960	C2*	U	A	287	147.458	75.270	-12.759	1.00	39.58	A16S
ATOM	5961	O2*	U	A	287	147.802	76.345	-11.915	1.00	39.58	A16S
ATOM	5962	C3*	U	A	287	148.430	74.118	-12.590	1.00	39.58	A16S
ATOM	5963	O3*	U	A	287	148.748	73.906	-11.235	1.00	39.58	A16S
ATOM	5964	P	A	A	288	147.839	72.908	-10.370	1.00	39.01	A16S
ATOM	5965	O1P	A	A	288	148.392	72.910	-8.993	1.00	43.93	A16S
ATOM	5966	O2P	A	A	288	147.667	71.624	-11.100	1.00	43.93	A16S
ATOM	5967	O5*	A	A	288	146.416	73.612	-10.383	1.00	39.01	A16S
ATOM	5968	C5*	A	A	288	146.254	74.913	-9.826	1.00	39.01	A16S
ATOM	5969	C4*	A	A	288	144.811	75.318	-9.872	1.00	39.01	A16S
ATOM	5970	O4*	A	A	288	144.416	75.644	-11.221	1.00	39.01	A16S
ATOM	5971	C1*	A	A	288	143.054	75.335	-11.403	1.00	39.01	A16S
ATOM	5972	N9	A	A	288	142.958	74.380	-12.496	1.00	43.93	A16S
ATOM	5973	C4	A	A	288	141.868	74.158	-13.302	1.00	43.93	A16S
ATOM	5974	N3	A	A	288	140.687	74.797	-13.281	1.00	43.93	A16S
ATOM	5975	C2	A	A	288	139.868	74.293	-14.193	1.00	43.93	A16S
ATOM	5976	N1	A	A	288	140.076	73.296	-15.053	1.00	43.93	A16S
ATOM	5977	C6	A	A	288	141.271	72.674	-15.041	1.00	43.93	A16S
ATOM	5978	N6	A	A	288	141.477	71.661	-15.873	1.00	43.93	A16S
ATOM	5979	C5	A	A	288	142.229	73.122	-14.139	1.00	43.93	A16S
ATOM	5980	N7	A	A	288	143.531	72.720	-13.892	1.00	43.93	A16S
ATOM	5981	C8	A	A	288	143.921	73.500	-12.915	1.00	43.93	A16S
ATOM	5982	C2*	A	A	288	142.534	74.764	-10.087	1.00	39.01	A16S
ATOM	5983	O2*	A	A	288	141.962	75.822	-9.352	1.00	39.01	A16S
ATOM	5984	C3*	A	A	288	143.817	74.269	-9.440	1.00	39.01	A16S
ATOM	5985	O3*	A	A	288	143.754	74.214	-8.030	1.00	39.01	A16S
ATOM	5986	P	G	A	289	142.865	73.087	-7.326	1.00	37.72	A16S
ATOM	5987	O1P	G	A	289	143.374	72.897	-5.947	1.00	22.10	A16S
ATOM	5988	O2P	G	A	289	142.759	71.921	-8.250	1.00	22.10	A16S
ATOM	5989	O5*	G	A	289	141.447	73.797	-7.247	1.00	37.72	A16S
ATOM	5990	C5*	G	A	289	140.272	73.047	-7.105	1.00	37.72	A16S
ATOM	5991	C4*	G	A	289	139.307	73.391	-8.193	1.00	37.72	A16S
ATOM	5992	O4*	G	A	289	138.305	72.367	-8.098	1.00	37.72	A16S
ATOM	5993	C1*	G	A	289	137.022	72.928	-8.236	1.00	37.72	A16S
ATOM	5994	N9	G	A	289	136.353	72.815	-6.943	1.00	22.10	A16S
ATOM	5995	C4	G	A	289	135.038	73.051	-6.694	1.00	22.10	A16S
ATOM	5996	N3	G	A	289	134.127	73.427	-7.602	1.00	22.10	A16S
ATOM	5997	C2	G	A	289	132.933	73.556	-7.069	1.00	22.10	A16S

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ATOM   5998  N2  G   A 289     131.886  73.862  -7.843  1.00 22.10      A16S
ATOM   5999  N1  G   A 289     132.667  73.381  -5.739  1.00 22.10      A16S
ATOM   6000  C6  G   A 289     133.600  73.030  -4.779  1.00 22.10      A16S
ATOM   6001  O6  G   A 289     133.265  72.965  -3.590  1.00 22.10      A16S
ATOM   6002  C5  G   A 289     134.873  72.825  -5.349  1.00 22.10      A16S
ATOM   6003  N7  G   A 289     136.067  72.437  -4.763  1.00 22.10      A16S
ATOM   6004  C8  G   A 289     136.918  72.449  -5.744  1.00 22.10      A16S
ATOM   6005  C2* G   A 289     137.209  74.365  -8.709  1.00 37.72      A16S
ATOM   6006  O2* G   A 289     137.245  74.353 -10.127  1.00 37.72      A16S
ATOM   6007  C3* G   A 289     138.552  74.714  -8.084  1.00 37.72      A16S
ATOM   6008  O3* G   A 289     139.160  75.797  -8.793  1.00 37.72      A16S
ATOM   6009  P   C   A 290     138.878  77.331  -8.336  1.00 34.89      A16S
ATOM   6010  O1P C   A 290     139.716  78.186  -9.216  1.00 33.07      A16S
ATOM   6011  O2P C   A 290     138.995  77.439  -6.854  1.00 33.07      A16S
ATOM   6012  O5* C   A 290     137.354  77.656  -8.669  1.00 34.89      A16S
ATOM   6013  C5* C   A 290     136.975  78.181  -9.946  1.00 34.89      A16S
ATOM   6014  C4* C   A 290     135.501  78.523  -9.966  1.00 34.89      A16S
ATOM   6015  O4* C   A 290     134.717  77.335  -9.693  1.00 34.89      A16S
ATOM   6016  C1* C   A 290     133.550  77.680  -8.968  1.00 34.89      A16S
ATOM   6017  N1  C   A 290     133.639  77.090  -7.618  1.00 33.07      A16S
ATOM   6018  C6  C   A 290     134.831  76.666  -7.113  1.00 33.07      A16S
ATOM   6019  C2  C   A 290     132.489  77.016  -6.839  1.00 33.07      A16S
ATOM   6020  O2  C   A 290     131.408  77.310  -7.351  1.00 33.07      A16S
ATOM   6021  N3  C   A 290     132.577  76.614  -5.552  1.00 33.07      A16S
ATOM   6022  C4  C   A 290     133.752  76.260  -5.054  1.00 33.07      A16S
ATOM   6023  N4  C   A 290     133.810  75.924  -3.778  1.00 33.07      A16S
ATOM   6024  C5  C   A 290     134.930  76.248  -5.847  1.00 33.07      A16S
ATOM   6025  C2* C   A 290     133.529  79.203  -8.869  1.00 34.89      A16S
ATOM   6026  O2* C   A 290     132.864  79.710  -9.998  1.00 34.89      A16S
ATOM   6027  C3* C   A 290     135.008  79.530  -8.945  1.00 34.89      A16S
ATOM   6028  O3* C   A 290     135.211  80.864  -9.374  1.00 34.89      A16S
ATOM   6029  P   C   A 291     135.511  82.008  -8.282  1.00 34.67      A16S
ATOM   6030  O1P C   A 291     135.876  83.233  -9.034  1.00 46.04      A16S
ATOM   6031  O2P C   A 291     136.449  81.473  -7.249  1.00 46.04      A16S
ATOM   6032  O5* C   A 291     134.092  82.240  -7.609  1.00 34.67      A16S
ATOM   6033  C5* C   A 291     132.969  82.595  -8.409  1.00 34.67      A16S
ATOM   6034  C4* C   A 291     131.723  82.599  -7.577  1.00 34.67      A16S
ATOM   6035  O4* C   A 291     131.448  81.251  -7.133  1.00 34.67      A16S
ATOM   6036  C1* C   A 291     130.799  81.297  -5.875  1.00 34.67      A16S
ATOM   6037  N1  C   A 291     131.607  80.584  -4.878  1.00 46.04      A16S
ATOM   6038  C6  C   A 291     132.950  80.389  -5.055  1.00 46.04      A16S
ATOM   6039  C2  C   A 291     130.980  80.145  -3.716  1.00 46.04      A16S
ATOM   6040  O2  C   A 291     129.746  80.262  -3.617  1.00 46.04      A16S
ATOM   6041  N3  C   A 291     131.732  79.597  -2.731  1.00 46.04      A16S
ATOM   6042  C4  C   A 291     133.049  79.458  -2.894  1.00 46.04      A16S
ATOM   6043  N4  C   A 291     133.752  78.962  -1.883  1.00 46.04      A16S
ATOM   6044  C5  C   A 291     133.701  79.835  -4.097  1.00 46.04      A16S
ATOM   6045  C2* C   A 291     130.667  82.765  -5.472  1.00 34.67      A16S
ATOM   6046  O2* C   A 291     129.392  83.235  -5.838  1.00 34.67      A16S
ATOM   6047  C3* C   A 291     131.764  83.412  -6.295  1.00 34.67      A16S
ATOM   6048  O3* C   A 291     131.502  84.789  -6.497  1.00 34.67      A16S
ATOM   6049  P   G   A 292     131.942  85.849  -5.372  1.00 37.30      A16S
ATOM   6050  O1P G   A 292     131.783  87.205  -5.955  1.00 38.97      A16S
ATOM   6051  O2P G   A 292     133.248  85.460  -4.804  1.00 38.97      A16S
ATOM   6052  O5* G   A 292     130.855  85.632  -4.235  1.00 37.30      A16S
ATOM   6053  C5* G   A 292     129.470  85.858  -4.497  1.00 37.30      A16S
ATOM   6054  C4* G   A 292     128.663  85.594  -3.259  1.00 37.30      A16S
ATOM   6055  O4* G   A 292     128.831  84.210  -2.879  1.00 37.30      A16S
ATOM   6056  C1* G   A 292     128.837  84.101  -1.470  1.00 37.30      A16S
ATOM   6057  N9  G   A 292     130.141  83.594  -1.078  1.00 38.97      A16S
ATOM   6058  C4  G   A 292     130.468  82.970   0.101  1.00 38.97      A16S
ATOM   6059  N3  G   A 292     129.626  82.698   1.111  1.00 38.97      A16S
ATOM   6060  C2  G   A 292     130.234  82.101   2.108  1.00 38.97      A16S
ATOM   6061  N2  G   A 292     129.539  81.773   3.199  1.00 38.97      A16S
ATOM   6062  N1  G   A 292     131.569  81.789   2.112  1.00 38.97      A16S
ATOM   6063  C6  G   A 292     132.459  82.073   1.085  1.00 38.97      A16S
ATOM   6064  O6  G   A 292     133.658  81.777   1.193  1.00 38.97      A16S
ATOM   6065  C5  G   A 292     131.814  82.708   0.012  1.00 38.97      A16S
ATOM   6066  N7  G   A 292     132.322  83.149  -1.201  1.00 38.97      A16S
ATOM   6067  C8  G   A 292     131.293  83.662  -1.815  1.00 38.97      A16S
ATOM   6068  C2* G   A 292     128.584  85.495  -0.899  1.00 37.30      A16S
ATOM   6069  O2* G   A 292     127.197  85.663  -0.682  1.00 37.30      A16S
ATOM   6070  C3* G   A 292     129.074  86.380  -2.029  1.00 37.30      A16S
ATOM   6071  O3* G   A 292     128.432  87.638  -1.994  1.00 37.30      A16S
ATOM   6072  P   G   A 293     129.217  88.907  -1.411  1.00 35.34      A16S
ATOM   6073  O1P G   A 293     128.233  90.022  -1.387  1.00 47.73      A16S
ATOM   6074  O2P G   A 293     130.486  89.055  -2.164  1.00 47.73      A16S
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ATOM	6075	O5*	G	A	293	129.550	88.487	0.085	1.00	35.34	A16S
ATOM	6076	C5*	G	A	293	130.772	88.872	0.704	1.00	35.34	A16S
ATOM	6077	C4*	G	A	293	131.460	87.661	1.284	1.00	35.34	A16S
ATOM	6078	O4*	G	A	293	131.652	86.694	0.230	1.00	35.34	A16S
ATOM	6079	C1*	G	A	293	132.934	86.107	0.349	1.00	35.34	A16S
ATOM	6080	N9	G	A	293	133.714	86.480	-0.829	1.00	47.73	A16S
ATOM	6081	C4	G	A	293	135.032	86.167	-1.069	1.00	47.73	A16S
ATOM	6082	N3	G	A	293	135.840	85.466	-0.252	1.00	47.73	A16S
ATOM	6083	C2	G	A	293	137.045	85.308	-0.766	1.00	47.73	A16S
ATOM	6084	N2	G	A	293	137.978	84.629	-0.085	1.00	47.73	A16S
ATOM	6085	N1	G	A	293	137.429	85.798	-1.983	1.00	47.73	A16S
ATOM	6086	C6	G	A	293	136.620	86.520	-2.844	1.00	47.73	A16S
ATOM	6087	O6	G	A	293	137.070	86.902	-3.936	1.00	47.73	A16S
ATOM	6088	C5	G	A	293	135.317	86.706	-2.302	1.00	47.73	A16S
ATOM	6089	N7	G	A	293	134.206	87.359	-2.824	1.00	47.73	A16S
ATOM	6090	C8	G	A	293	133.284	87.202	-1.917	1.00	47.73	A16S
ATOM	6091	C2*	G	A	293	133.555	86.615	1.646	1.00	35.34	A16S
ATOM	6092	O2*	G	A	293	133.209	85.741	2.687	1.00	35.34	A16S
ATOM	6093	C3*	G	A	293	132.854	87.942	1.814	1.00	35.34	A16S
ATOM	6094	O3*	G	A	293	132.825	88.347	3.163	1.00	35.34	A16S
ATOM	6095	P	U	A	294	133.765	89.549	3.630	1.00	39.64	A16S
ATOM	6096	O1P	U	A	294	133.469	89.884	5.032	1.00	46.16	A16S
ATOM	6097	O2P	U	A	294	133.664	90.610	2.598	1.00	46.16	A16S
ATOM	6098	O5*	U	A	294	135.212	88.891	3.577	1.00	39.64	A16S
ATOM	6099	C5*	U	A	294	135.514	87.761	4.395	1.00	39.64	A16S
ATOM	6100	C4*	U	A	294	136.947	87.337	4.205	1.00	39.64	A16S
ATOM	6101	O4*	U	A	294	137.117	86.673	2.927	1.00	39.64	A16S
ATOM	6102	C1*	U	A	294	138.399	86.973	2.406	1.00	39.64	A16S
ATOM	6103	N1	U	A	294	138.211	87.702	1.146	1.00	46.16	A16S
ATOM	6104	C6	U	A	294	136.999	88.248	0.826	1.00	46.16	A16S
ATOM	6105	C2	U	A	294	139.288	87.823	0.295	1.00	46.16	A16S
ATOM	6106	O2	U	A	294	140.395	87.363	0.545	1.00	46.16	A16S
ATOM	6107	N3	U	A	294	139.025	88.505	-0.862	1.00	46.16	A16S
ATOM	6108	C4	U	A	294	137.830	89.059	-1.237	1.00	46.16	A16S
ATOM	6109	O4	U	A	294	137.720	89.559	-2.349	1.00	46.16	A16S
ATOM	6110	C5	U	A	294	136.783	88.903	-0.300	1.00	46.16	A16S
ATOM	6111	C2*	U	A	294	139.135	87.825	3.442	1.00	39.64	A16S
ATOM	6112	O2*	U	A	294	139.926	86.999	4.268	1.00	39.64	A16S
ATOM	6113	C3*	U	A	294	137.980	88.448	4.206	1.00	39.64	A16S
ATOM	6114	O3*	U	A	294	138.365	88.827	5.517	1.00	39.64	A16S
ATOM	6115	P	C	A	295	138.719	90.367	5.818	1.00	39.60	A16S
ATOM	6116	O1P	C	A	295	138.891	90.561	7.288	1.00	31.07	A16S
ATOM	6117	O2P	C	A	295	137.697	91.176	5.069	1.00	31.07	A16S
ATOM	6118	O5*	C	A	295	140.160	90.556	5.174	1.00	39.60	A16S
ATOM	6119	C5*	C	A	295	141.313	89.994	5.808	1.00	39.60	A16S
ATOM	6120	C4*	C	A	295	142.513	90.205	4.945	1.00	39.60	A16S
ATOM	6121	O4*	C	A	295	142.287	89.557	3.669	1.00	39.60	A16S
ATOM	6122	C1*	C	A	295	142.915	90.303	2.641	1.00	39.60	A16S
ATOM	6123	N1	C	A	295	141.910	90.710	1.659	1.00	31.07	A16S
ATOM	6124	C6	C	A	295	140.578	90.685	1.944	1.00	31.07	A16S
ATOM	6125	C2	C	A	295	142.355	91.143	0.423	1.00	31.07	A16S
ATOM	6126	O2	C	A	295	143.577	91.148	0.205	1.00	31.07	A16S
ATOM	6127	N3	C	A	295	141.462	91.550	-0.500	1.00	31.07	A16S
ATOM	6128	C4	C	A	295	140.164	91.528	-0.217	1.00	31.07	A16S
ATOM	6129	N4	C	A	295	139.313	91.941	-1.156	1.00	31.07	A16S
ATOM	6130	C5	C	A	295	139.678	91.082	1.043	1.00	31.07	A16S
ATOM	6131	C2*	C	A	295	143.549	91.538	3.273	1.00	39.60	A16S
ATOM	6132	O2*	C	A	295	144.937	91.364	3.458	1.00	39.60	A16S
ATOM	6133	C3*	C	A	295	142.758	91.644	4.561	1.00	39.60	A16S
ATOM	6134	O3*	C	A	295	143.437	92.369	5.532	1.00	39.60	A16S
ATOM	6135	P	U	A	296	143.148	93.935	5.650	1.00	32.55	A16S
ATOM	6136	O1P	U	A	296	143.751	94.399	6.917	1.00	29.21	A16S
ATOM	6137	O2P	U	A	296	141.702	94.180	5.385	1.00	29.21	A16S
ATOM	6138	O5*	U	A	296	143.915	94.566	4.411	1.00	32.55	A16S
ATOM	6139	C5*	U	A	296	145.304	94.319	4.198	1.00	32.55	A16S
ATOM	6140	C4*	U	A	296	145.683	94.755	2.812	1.00	32.55	A16S
ATOM	6141	O4*	U	A	296	144.940	93.977	1.841	1.00	32.55	A16S
ATOM	6142	C1*	U	A	296	144.671	94.775	0.702	1.00	32.55	A16S
ATOM	6143	N1	U	A	296	143.223	94.769	0.442	1.00	29.21	A16S
ATOM	6144	C6	U	A	296	142.334	94.484	1.425	1.00	29.21	A16S
ATOM	6145	C2	U	A	296	142.791	95.090	-0.827	1.00	29.21	A16S
ATOM	6146	O2	U	A	296	143.541	95.301	-1.748	1.00	29.21	A16S
ATOM	6147	N3	U	A	296	141.439	95.151	-0.981	1.00	29.21	A16S
ATOM	6148	C4	U	A	296	140.494	94.913	-0.026	1.00	29.21	A16S
ATOM	6149	O4	U	A	296	139.302	95.098	-0.288	1.00	29.21	A16S
ATOM	6150	C5	U	A	296	141.019	94.541	1.240	1.00	29.21	A16S
ATOM	6151	C2*	U	A	296	145.230	96.176	0.966	1.00	32.55	A16S

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ATOM   6152  O2* U   A 296     146.485  96.307   0.344  1.00 32.55      A16S
ATOM   6153  C3* U   A 296     145.338  96.192   2.483  1.00 32.55      A16S
ATOM   6154  O3* U   A 296     146.348  97.071   2.940  1.00 32.55      A16S
ATOM   6155  P   G   A 297     145.977  98.592   3.273  1.00 26.32      A16S
ATOM   6156  O1P G   A 297     147.202  99.310   3.725  1.00 43.76      A16S
ATOM   6157  O2P G   A 297     144.789  98.583   4.138  1.00 43.76      A16S
ATOM   6158  O5* G   A 297     145.500  99.181   1.876  1.00 26.32      A16S
ATOM   6159  C5* G   A 297     146.447  99.510   0.855  1.00 26.32      A16S
ATOM   6160  C4* G   A 297     145.731  99.984  -0.377  1.00 26.32      A16S
ATOM   6161  O4* G   A 297     144.969  98.889  -0.949  1.00 26.32      A16S
ATOM   6162  C1* G   A 297     143.834  99.407  -1.625  1.00 26.32      A16S
ATOM   6163  N9  G   A 297     142.625  98.842  -1.045  1.00 43.76      A16S
ATOM   6164  C4  G   A 297     141.392  98.847  -1.632  1.00 43.76      A16S
ATOM   6165  N3  G   A 297     141.114  99.290  -2.871  1.00 43.76      A16S
ATOM   6166  C2  G   A 297     139.833  99.202  -3.147  1.00 43.76      A16S
ATOM   6167  N2  G   A 297     139.388  99.593  -4.337  1.00 43.76      A16S
ATOM   6168  N1  G   A 297     138.896  98.728  -2.279  1.00 43.76      A16S
ATOM   6169  C6  G   A 297     139.158  98.276  -0.994  1.00 43.76      A16S
ATOM   6170  O6  G   A 297     138.225  97.894  -0.273  1.00 43.76      A16S
ATOM   6171  C5  G   A 297     140.535  98.346  -0.689  1.00 43.76      A16S
ATOM   6172  N7  G   A 297     141.225  97.974   0.454  1.00 43.76      A16S
ATOM   6173  C8  G   A 297     142.464  98.275   0.191  1.00 43.76      A16S
ATOM   6174  C2* G   A 297     143.824 100.923  -1.419  1.00 26.32      A16S
ATOM   6175  O2* G   A 297     144.386 101.549  -2.548  1.00 26.32      A16S
ATOM   6176  C3* G   A 297     144.691 101.075  -0.178  1.00 26.32      A16S
ATOM   6177  O3* G   A 297     145.258 102.369  -0.082  1.00 26.32      A16S
ATOM   6178  P   A   A 298     144.691 103.406   1.011  1.00 32.49      A16S
ATOM   6179  O1P A   A 298     145.580 104.595   0.966  1.00 45.24      A16S
ATOM   6180  O2P A   A 298     144.508 102.673   2.296  1.00 45.24      A16S
ATOM   6181  O5* A   A 298     143.267 103.824   0.429  1.00 32.49      A16S
ATOM   6182  C5* A   A 298     142.289 104.469   1.270  1.00 32.49      A16S
ATOM   6183  C4* A   A 298     141.334 105.281   0.439  1.00 32.49      A16S
ATOM   6184  O4* A   A 298     142.034 106.380  -0.165  1.00 32.49      A16S
ATOM   6185  C1* A   A 298     141.547 106.593  -1.468  1.00 32.49      A16S
ATOM   6186  N9  A   A 298     142.674 106.476  -2.382  1.00 45.24      A16S
ATOM   6187  C4  A   A 298     142.759 107.008  -3.645  1.00 45.24      A16S
ATOM   6188  N3  A   A 298     141.822 107.712  -4.296  1.00 45.24      A16S
ATOM   6189  C2  A   A 298     142.260 108.073  -5.492  1.00 45.24      A16S
ATOM   6190  N1  A   A 298     143.436 107.832  -6.071  1.00 45.24      A16S
ATOM   6191  C6  A   A 298     144.357 107.125  -5.390  1.00 45.24      A16S
ATOM   6192  N6  A   A 298     145.543 106.889  -5.969  1.00 45.24      A16S
ATOM   6193  C5  A   A 298     144.014 106.678  -4.107  1.00 45.24      A16S
ATOM   6194  N7  A   A 298     144.704 105.934  -3.162  1.00 45.24      A16S
ATOM   6195  C8  A   A 298     143.866 105.841  -2.162  1.00 45.24      A16S
ATOM   6196  C2* A   A 298     140.422 105.595  -1.736  1.00 32.49      A16S
ATOM   6197  O2* A   A 298     139.163 106.191  -1.526  1.00 32.49      A16S
ATOM   6198  C3* A   A 298     140.702 104.520  -0.704  1.00 32.49      A16S
ATOM   6199  O3* A   A 298     139.489 103.954  -0.256  1.00 32.49      A16S
ATOM   6200  P   G   A 299     139.102 102.463  -0.690  1.00 29.58      A16S
ATOM   6201  O1P G   A 299     137.827 102.157   0.038  1.00 39.48      A16S
ATOM   6202  O2P G   A 299     140.298 101.588  -0.470  1.00 39.48      A16S
ATOM   6203  O5* G   A 299     138.770 102.591  -2.245  1.00 29.58      A16S
ATOM   6204  C5* G   A 299     137.513 103.127  -2.668  1.00 29.58      A16S
ATOM   6205  C4* G   A 299     137.642 103.736  -4.032  1.00 29.58      A16S
ATOM   6206  O4* G   A 299     138.862 104.504  -4.038  1.00 29.58      A16S
ATOM   6207  C1* G   A 299     139.480 104.404  -5.301  1.00 29.58      A16S
ATOM   6208  N9  G   A 299     140.824 103.863  -5.115  1.00 39.48      A16S
ATOM   6209  C4  G   A 299     141.900 104.057  -5.952  1.00 39.48      A16S
ATOM   6210  N3  G   A 299     141.886 104.744  -7.112  1.00 39.48      A16S
ATOM   6211  C2  G   A 299     143.076 104.810  -7.658  1.00 39.48      A16S
ATOM   6212  N2  G   A 299     143.244 105.473  -8.806  1.00 39.48      A16S
ATOM   6213  N1  G   A 299     144.191 104.236  -7.117  1.00 39.48      A16S
ATOM   6214  C6  G   A 299     144.231 103.521  -5.933  1.00 39.48      A16S
ATOM   6215  O6  G   A 299     145.301 103.056  -5.535  1.00 39.48      A16S
ATOM   6216  C5  G   A 299     142.959 103.445  -5.332  1.00 39.48      A16S
ATOM   6217  N7  G   A 299     142.555 102.843  -4.149  1.00 39.48      A16S
ATOM   6218  C8  G   A 299     141.282 103.107  -4.067  1.00 39.48      A16S
ATOM   6219  C2* G   A 299     138.573 103.573  -6.200  1.00 29.58      A16S
ATOM   6220  O2* G   A 299     137.700 104.440  -6.877  1.00 29.58      A16S
ATOM   6221  C3* G   A 299     137.797 102.763  -5.185  1.00 29.58      A16S
ATOM   6222  O3* G   A 299     136.544 102.411  -5.729  1.00 29.58      A16S
ATOM   6223  P   A   A 300     136.303 100.915  -6.256  1.00 34.10      A16S
ATOM   6224  O1P A   A 300     134.866 100.809  -6.601  1.00 30.62      A16S
ATOM   6225  O2P A   A 300     136.894  99.948  -5.293  1.00 30.62      A16S
ATOM   6226  O5* A   A 300     137.117 100.852  -7.616  1.00 34.10      A16S
ATOM   6227  C5* A   A 300     136.594 101.458  -8.796  1.00 34.10      A16S
ATOM   6228  C4* A   A 300     137.649 101.498  -9.860  1.00 34.10      A16S
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ATOM   6229  O4* A   A 300     138.744 102.325  -9.398  1.00 34.10      A16S
ATOM   6230  C1* A   A 300     139.975 101.750  -9.787  1.00 34.10      A16S
ATOM   6231  N9  A   A 300     140.633 101.261  -8.580  1.00 30.62      A16S
ATOM   6232  C4  A   A 300     141.979 101.122  -8.387  1.00 30.62      A16S
ATOM   6233  N3  A   A 300     142.956 101.404  -9.258  1.00 30.62      A16S
ATOM   6234  C2  A   A 300     144.140 101.173  -8.717  1.00 30.62      A16S
ATOM   6235  N1  A   A 300     144.438 100.736  -7.495  1.00 30.62      A16S
ATOM   6236  C6  A   A 300     143.429 100.464  -6.645  1.00 30.62      A16S
ATOM   6237  N6  A   A 300     143.726 100.052  -5.414  1.00 30.62      A16S
ATOM   6238  C5  A   A 300     142.129 100.648  -7.104  1.00 30.62      A16S
ATOM   6239  N7  A   A 300     140.899 100.470  -6.501  1.00 30.62      A16S
ATOM   6240  C8  A   A 300     140.048 100.849  -7.416  1.00 30.62      A16S
ATOM   6241  C2* A   A 300     139.639 100.588 -10.712  1.00 34.10      A16S
ATOM   6242  O2* A   A 300     139.480 101.061 -12.029  1.00 34.10      A16S
ATOM   6243  C3* A   A 300     138.297 100.165 -10.165  1.00 34.10      A16S
ATOM   6244  O3* A   A 300     137.582  99.404 -11.102  1.00 34.10      A16S
ATOM   6245  P   G   A 301     137.465  97.815 -10.887  1.00 44.46      A16S
ATOM   6246  O1P G   A 301     136.968  97.241 -12.171  1.00 39.01      A16S
ATOM   6247  O2P G   A 301     136.707  97.593  -9.641  1.00 39.01      A16S
ATOM   6248  O5* G   A 301     138.950  97.316 -10.580  1.00 44.46      A16S
ATOM   6249  C5* G   A 301     139.958  97.329 -11.595  1.00 44.46      A16S
ATOM   6250  C4* G   A 301     141.335  97.298 -10.975  1.00 44.46      A16S
ATOM   6251  O4* G   A 301     141.338  98.151  -9.801  1.00 44.46      A16S
ATOM   6252  C1* G   A 301     142.254  97.648  -8.845  1.00 44.46      A16S
ATOM   6253  N9  G   A 301     141.538  97.319  -7.609  1.00 39.01      A16S
ATOM   6254  C4  G   A 301     142.105  96.918  -6.428  1.00 39.01      A16S
ATOM   6255  N3  G   A 301     143.417  96.777  -6.199  1.00 39.01      A16S
ATOM   6256  C2  G   A 301     143.657  96.336  -4.985  1.00 39.01      A16S
ATOM   6257  N2  G   A 301     144.924  96.130  -4.596  1.00 39.01      A16S
ATOM   6258  N1  G   A 301     142.681  96.062  -4.064  1.00 39.01      A16S
ATOM   6259  C6  G   A 301     141.320  96.201  -4.281  1.00 39.01      A16S
ATOM   6260  O6  G   A 301     140.511  95.921  -3.380  1.00 39.01      A16S
ATOM   6261  C5  G   A 301     141.053  96.665  -5.581  1.00 39.01      A16S
ATOM   6262  N7  G   A 301     139.845  96.913  -6.207  1.00 39.01      A16S
ATOM   6263  C8  G   A 301     140.180  97.309  -7.403  1.00 39.01      A16S
ATOM   6264  C2* G   A 301     142.909  96.412  -9.461  1.00 44.46      A16S
ATOM   6265  O2* G   A 301     144.102  96.819 -10.094  1.00 44.46      A16S
ATOM   6266  C3* G   A 301     141.853  95.964 -10.463  1.00 44.46      A16S
ATOM   6267  O3* G   A 301     142.414  95.157 -11.506  1.00 44.46      A16S
ATOM   6268  P   G   A 302     142.357  93.541 -11.404  1.00 38.52      A16S
ATOM   6269  O1P G   A 302     142.782  93.033 -12.724  1.00 30.41      A16S
ATOM   6270  O2P G   A 302     141.059  93.095 -10.819  1.00 30.41      A16S
ATOM   6271  O5* G   A 302     143.520  93.162 -10.390  1.00 38.52      A16S
ATOM   6272  C5* G   A 302     144.864  93.583 -10.653  1.00 38.52      A16S
ATOM   6273  C4* G   A 302     145.713  93.405  -9.427  1.00 38.52      A16S
ATOM   6274  O4* G   A 302     145.214  94.231  -8.343  1.00 38.52      A16S
ATOM   6275  C1* G   A 302     145.409  93.568  -7.107  1.00 38.52      A16S
ATOM   6276  N9  G   A 302     144.101  93.364  -6.484  1.00 30.41      A16S
ATOM   6277  C4  G   A 302     143.848  93.005  -5.178  1.00 30.41      A16S
ATOM   6278  N3  G   A 302     144.766  92.785  -4.221  1.00 30.41      A16S
ATOM   6279  C2  G   A 302     144.209  92.453  -3.063  1.00 30.41      A16S
ATOM   6280  N2  G   A 302     144.978  92.231  -1.985  1.00 30.41      A16S
ATOM   6281  N1  G   A 302     142.864  92.325  -2.872  1.00 30.41      A16S
ATOM   6282  C6  G   A 302     141.904  92.544  -3.841  1.00 30.41      A16S
ATOM   6283  O6  G   A 302     140.716  92.400  -3.559  1.00 30.41      A16S
ATOM   6284  C5  G   A 302     142.481  92.920  -5.080  1.00 30.41      A16S
ATOM   6285  N7  G   A 302     141.882  93.229  -6.290  1.00 30.41      A16S
ATOM   6286  C8  G   A 302     142.879  93.486  -7.091  1.00 30.41      A16S
ATOM   6287  C2* G   A 302     146.144  92.263  -7.416  1.00 38.52      A16S
ATOM   6288  O2* G   A 302     147.537  92.492  -7.375  1.00 38.52      A16S
ATOM   6289  C3* G   A 302     145.724  92.009  -8.851  1.00 38.52      A16S
ATOM   6290  O3* G   A 302     146.649  91.189  -9.526  1.00 38.52      A16S
ATOM   6291  P   A   A 303     146.278  89.655  -9.802  1.00 37.69      A16S
ATOM   6292  O1P A   A 303     147.427  89.087 -10.550  1.00 39.57      A16S
ATOM   6293  O2P A   A 303     144.918  89.603 -10.392  1.00 39.57      A16S
ATOM   6294  O5* A   A 303     146.235  88.984  -8.357  1.00 37.69      A16S
ATOM   6295  C5* A   A 303     147.456  88.768  -7.650  1.00 37.69      A16S
ATOM   6296  C4* A   A 303     147.200  88.406  -6.215  1.00 37.69      A16S
ATOM   6297  O4* A   A 303     146.476  89.469  -5.544  1.00 37.69      A16S
ATOM   6298  C1* A   A 303     145.687  88.911  -4.504  1.00 37.69      A16S
ATOM   6299  N9  A   A 303     144.278  89.182  -4.769  1.00 39.57      A16S
ATOM   6300  C4  A   A 303     143.273  89.095  -3.842  1.00 39.57      A16S
ATOM   6301  N3  A   A 303     143.393  88.814  -2.534  1.00 39.57      A16S
ATOM   6302  C2  A   A 303     142.194  88.772  -1.952  1.00 39.57      A16S
ATOM   6303  N1  A   A 303     140.986  88.964  -2.489  1.00 39.57      A16S
ATOM   6304  C6  A   A 303     140.907  89.246  -3.805  1.00 39.57      A16S
ATOM   6305  N6  A   A 303     139.706  89.427  -4.346  1.00 39.57      A16S
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ATOM   6306  C5  A   A 303     142.104  89.324  -4.532  1.00 39.57      A16S
ATOM   6307  N7  A   A 303     142.369  89.590  -5.865  1.00 39.57      A16S
ATOM   6308  C8  A   A 303     143.672  89.506  -5.949  1.00 39.57      A16S
ATOM   6309  C2* A   A 303     145.924  87.402  -4.510  1.00 37.69      A16S
ATOM   6310  O2* A   A 303     146.950  87.098  -3.587  1.00 37.69      A16S
ATOM   6311  C3* A   A 303     146.365  87.170  -5.945  1.00 37.69      A16S
ATOM   6312  O3* A   A 303     147.117  85.979  -6.068  1.00 37.69      A16S
ATOM   6313  P   U   A 304     146.399  84.643  -6.602  1.00 45.55      A16S
ATOM   6314  O1P U   A 304     147.498  83.648  -6.718  1.00 44.81      A16S
ATOM   6315  O2P U   A 304     145.536  84.941  -7.795  1.00 44.81      A16S
ATOM   6316  O5* U   A 304     145.432  84.223  -5.407  1.00 45.55      A16S
ATOM   6317  C5* U   A 304     145.951  83.993  -4.098  1.00 45.55      A16S
ATOM   6318  C4* U   A 304     144.827  83.869  -3.107  1.00 45.55      A16S
ATOM   6319  O4* U   A 304     144.101  85.117  -3.063  1.00 45.55      A16S
ATOM   6320  C1* U   A 304     142.749  84.869  -2.741  1.00 45.55      A16S
ATOM   6321  N1  U   A 304     141.879  85.457  -3.771  1.00 44.81      A16S
ATOM   6322  C6  U   A 304     142.335  85.811  -5.023  1.00 44.81      A16S
ATOM   6323  C2  U   A 304     140.558  85.626  -3.433  1.00 44.81      A16S
ATOM   6324  O2  U   A 304     140.120  85.353  -2.332  1.00 44.81      A16S
ATOM   6325  N3  U   A 304     139.763  86.128  -4.425  1.00 44.81      A16S
ATOM   6326  C4  U   A 304     140.142  86.483  -5.694  1.00 44.81      A16S
ATOM   6327  O4  U   A 304     139.289  86.934  -6.471  1.00 44.81      A16S
ATOM   6328  C5  U   A 304     141.532  86.303  -5.970  1.00 44.81      A16S
ATOM   6329  C2* U   A 304     142.571  83.358  -2.606  1.00 45.55      A16S
ATOM   6330  O2* U   A 304     142.644  83.016  -1.241  1.00 45.55      A16S
ATOM   6331  C3* U   A 304     143.758  82.833  -3.398  1.00 45.55      A16S
ATOM   6332  O3* U   A 304     144.140  81.542  -2.954  1.00 45.55      A16S
ATOM   6333  P   G   A 305     143.451  80.240  -3.600  1.00 51.83      A16S
ATOM   6334  O1P G   A 305     144.279  79.093  -3.144  1.00 38.95      A16S
ATOM   6335  O2P G   A 305     143.190  80.431  -5.050  1.00 38.95      A16S
ATOM   6336  O5* G   A 305     142.023  80.173  -2.907  1.00 51.83      A16S
ATOM   6337  C5* G   A 305     141.908  80.059  -1.491  1.00 51.83      A16S
ATOM   6338  C4* G   A 305     140.463  79.988  -1.105  1.00 51.83      A16S
ATOM   6339  O4* G   A 305     139.819  81.211  -1.547  1.00 51.83      A16S
ATOM   6340  C1* G   A 305     138.697  80.900  -2.341  1.00 51.83      A16S
ATOM   6341  N9  G   A 305     138.587  81.882  -3.414  1.00 38.95      A16S
ATOM   6342  C4  G   A 305     137.480  82.632  -3.717  1.00 38.95      A16S
ATOM   6343  N3  G   A 305     136.315  82.628  -3.044  1.00 38.95      A16S
ATOM   6344  C2  G   A 305     135.431  83.419  -3.599  1.00 38.95      A16S
ATOM   6345  N2  G   A 305     134.218  83.532  -3.064  1.00 38.95      A16S
ATOM   6346  N1  G   A 305     135.674  84.158  -4.717  1.00 38.95      A16S
ATOM   6347  C6  G   A 305     136.873  84.186  -5.413  1.00 38.95      A16S
ATOM   6348  O6  G   A 305     136.993  84.905  -6.404  1.00 38.95      A16S
ATOM   6349  C5  G   A 305     137.818  83.345  -4.839  1.00 38.95      A16S
ATOM   6350  N7  G   A 305     139.120  83.081  -5.218  1.00 38.95      A16S
ATOM   6351  C8  G   A 305     139.543  82.215  -4.338  1.00 38.95      A16S
ATOM   6352  C2* G   A 305     138.917  79.487  -2.866  1.00 51.83      A16S
ATOM   6353  O2* G   A 305     137.670  78.891  -3.176  1.00 51.83      A16S
ATOM   6354  C3* G   A 305     139.677  78.832  -1.712  1.00 51.83      A16S
ATOM   6355  O3* G   A 305     138.772  78.305  -0.746  1.00 51.83      A16S
ATOM   6356  P   G   A 306     139.017  76.832  -0.147  1.00 55.48      A16S
ATOM   6357  O1P G   A 306     139.797  76.050  -1.149  1.00 99.18      A16S
ATOM   6358  O2P G   A 306     137.709  76.305   0.348  1.00 99.18      A16S
ATOM   6359  O5* G   A 306     139.950  77.118   1.107  1.00 55.48      A16S
ATOM   6360  C5* G   A 306     140.685  76.062   1.745  1.00 55.48      A16S
ATOM   6361  C4* G   A 306     140.925  76.407   3.194  1.00 55.48      A16S
ATOM   6362  O4* G   A 306     141.579  77.699   3.255  1.00 55.48      A16S
ATOM   6363  C1* G   A 306     141.082  78.438   4.345  1.00 55.48      A16S
ATOM   6364  N9  G   A 306     140.462  79.659   3.839  1.00 99.18      A16S
ATOM   6365  C4  G   A 306     140.044  80.717   4.604  1.00 99.18      A16S
ATOM   6366  N3  G   A 306     140.124  80.795   5.951  1.00 99.18      A16S
ATOM   6367  C2  G   A 306     139.644  81.933   6.409  1.00 99.18      A16S
ATOM   6368  N2  G   A 306     139.645  82.166   7.730  1.00 99.18      A16S
ATOM   6369  N1  G   A 306     139.126  82.925   5.607  1.00 99.18      A16S
ATOM   6370  C6  G   A 306     139.030  82.867   4.217  1.00 99.18      A16S
ATOM   6371  O6  G   A 306     138.538  83.818   3.589  1.00 99.18      A16S
ATOM   6372  C5  G   A 306     139.544  81.642   3.712  1.00 99.18      A16S
ATOM   6373  N7  G   A 306     139.640  81.171   2.407  1.00 99.18      A16S
ATOM   6374  C8  G   A 306     140.186  79.991   2.531  1.00 99.18      A16S
ATOM   6375  C2* G   A 306     140.113  77.546   5.111  1.00 55.48      A16S
ATOM   6376  O2* G   A 306     140.849  76.942   6.153  1.00 55.48      A16S
ATOM   6377  C3* G   A 306     139.668  76.580   4.024  1.00 55.48      A16S
ATOM   6378  O3* G   A 306     139.214  75.329   4.519  1.00 55.48      A16S
ATOM   6379  P   C   A 307     137.633  75.056   4.645  1.00 70.80      A16S
ATOM   6380  O1P C   A 307     136.953  75.710   3.485  1.00 77.33      A16S
ATOM   6381  O2P C   A 307     137.416  73.603   4.885  1.00 77.33      A16S
ATOM   6382  O5* C   A 307     137.241  75.847   5.972  1.00 70.80      A16S
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ATOM   6383  C5* C   A 307     137.822  75.484   7.234  1.00 70.80      A16S
ATOM   6384  C4* C   A 307     137.259  76.335   8.338  1.00 70.80      A16S
ATOM   6385  O4* C   A 307     137.753  77.692   8.226  1.00 70.80      A16S
ATOM   6386  C1* C   A 307     136.752  78.598   8.667  1.00 70.80      A16S
ATOM   6387  N1  C   A 307     136.407  79.514   7.562  1.00 77.33      A16S
ATOM   6388  C6  C   A 307     136.856  79.289   6.290  1.00 77.33      A16S
ATOM   6389  C2  C   A 307     135.596  80.619   7.836  1.00 77.33      A16S
ATOM   6390  O2  C   A 307     135.207  80.806   8.999  1.00 77.33      A16S
ATOM   6391  N3  C   A 307     135.255  81.452   6.829  1.00 77.33      A16S
ATOM   6392  C4  C   A 307     135.694  81.218   5.592  1.00 77.33      A16S
ATOM   6393  N4  C   A 307     135.331  82.064   4.628  1.00 77.33      A16S
ATOM   6394  C5  C   A 307     136.525  80.107   5.287  1.00 77.33      A16S
ATOM   6395  C2* C   A 307     135.542  77.770   9.110  1.00 70.80      A16S
ATOM   6396  O2* C   A 307     135.578  77.557  10.505  1.00 70.80      A16S
ATOM   6397  C3* C   A 307     135.752  76.481   8.338  1.00 70.80      A16S
ATOM   6398  O3* C   A 307     135.115  75.389   8.957  1.00 70.80      A16S
ATOM   6399  P   C   A 308     134.044  74.538   8.125  1.00 50.41      A16S
ATOM   6400  O1P C   A 308     133.703  73.349   8.938  1.00 36.08      A16S
ATOM   6401  O2P C   A 308     134.605  74.369   6.759  1.00 36.08      A16S
ATOM   6402  O5* C   A 308     132.753  75.468   8.026  1.00 50.41      A16S
ATOM   6403  C5* C   A 308     132.022  75.852   9.211  1.00 50.41      A16S
ATOM   6404  C4* C   A 308     131.086  77.009   8.919  1.00 50.41      A16S
ATOM   6405  O4* C   A 308     131.836  78.202   8.561  1.00 50.41      A16S
ATOM   6406  C1* C   A 308     131.093  78.970   7.633  1.00 50.41      A16S
ATOM   6407  N1  C   A 308     131.882  79.120   6.392  1.00 36.08      A16S
ATOM   6408  C6  C   A 308     132.942  78.301   6.131  1.00 36.08      A16S
ATOM   6409  C2  C   A 308     131.513  80.108   5.461  1.00 36.08      A16S
ATOM   6410  O2  C   A 308     130.581  80.879   5.728  1.00 36.08      A16S
ATOM   6411  N3  C   A 308     132.184  80.204   4.295  1.00 36.08      A16S
ATOM   6412  C4  C   A 308     133.196  79.386   4.042  1.00 36.08      A16S
ATOM   6413  N4  C   A 308     133.812  79.513   2.872  1.00 36.08      A16S
ATOM   6414  C5  C   A 308     133.619  78.398   4.978  1.00 36.08      A16S
ATOM   6415  C2* C   A 308     129.762  78.247   7.399  1.00 50.41      A16S
ATOM   6416  O2* C   A 308     128.789  78.765   8.277  1.00 50.41      A16S
ATOM   6417  C3* C   A 308     130.105  76.816   7.776  1.00 50.41      A16S
ATOM   6418  O3* C   A 308     128.948  76.106   8.198  1.00 50.41      A16S
ATOM   6419  P   G   A 309     128.231  75.078   7.188  1.00 40.53      A16S
ATOM   6420  O1P G   A 309     127.149  74.392   7.943  1.00 43.49      A16S
ATOM   6421  O2P G   A 309     129.271  74.270   6.485  1.00 43.49      A16S
ATOM   6422  O5* G   A 309     127.554  76.014   6.096  1.00 40.53      A16S
ATOM   6423  C5* G   A 309     126.393  76.774   6.415  1.00 40.53      A16S
ATOM   6424  C4* G   A 309     125.943  77.550   5.210  1.00 40.53      A16S
ATOM   6425  O4* G   A 309     126.927  78.566   4.904  1.00 40.53      A16S
ATOM   6426  C1* G   A 309     126.958  78.790   3.511  1.00 40.53      A16S
ATOM   6427  N9  G   A 309     128.320  78.595   3.024  1.00 43.49      A16S
ATOM   6428  C4  G   A 309     128.768  78.908   1.767  1.00 43.49      A16S
ATOM   6429  N3  G   A 309     128.024  79.428   0.770  1.00 43.49      A16S
ATOM   6430  C2  G   A 309     128.743  79.650  -0.319  1.00 43.49      A16S
ATOM   6431  N2  G   A 309     128.157  80.152  -1.418  1.00 43.49      A16S
ATOM   6432  N1  G   A 309     130.082  79.394  -0.411  1.00 43.49      A16S
ATOM   6433  C6  G   A 309     130.864  78.866   0.602  1.00 43.49      A16S
ATOM   6434  O6  G   A 309     132.060  78.695   0.412  1.00 43.49      A16S
ATOM   6435  C5  G   A 309     130.106  78.604   1.767  1.00 43.49      A16S
ATOM   6436  N7  G   A 309     130.490  78.080   2.990  1.00 43.49      A16S
ATOM   6437  C8  G   A 309     129.397  78.094   3.704  1.00 43.49      A16S
ATOM   6438  C2* G   A 309     125.957  77.839   2.868  1.00 40.53      A16S
ATOM   6439  O2* G   A 309     124.730  78.498   2.696  1.00 40.53      A16S
ATOM   6440  C3* G   A 309     125.839  76.761   3.924  1.00 40.53      A16S
ATOM   6441  O3* G   A 309     124.641  76.039   3.769  1.00 40.53      A16S
ATOM   6442  P   G   A 310     124.603  74.860   2.694  1.00 32.31      A16S
ATOM   6443  O1P G   A 310     123.287  74.190   2.649  1.00 24.29      A16S
ATOM   6444  O2P G   A 310     125.808  74.065   2.968  1.00 24.29      A16S
ATOM   6445  O5* G   A 310     124.784  75.618   1.303  1.00 32.31      A16S
ATOM   6446  C5* G   A 310     123.708  76.397   0.765  1.00 32.31      A16S
ATOM   6447  C4* G   A 310     123.904  76.644  -0.713  1.00 32.31      A16S
ATOM   6448  O4* G   A 310     124.939  77.628  -0.938  1.00 32.31      A16S
ATOM   6449  C1* G   A 310     125.542  77.403  -2.201  1.00 32.31      A16S
ATOM   6450  N9  G   A 310     126.956  77.140  -1.982  1.00 24.29      A16S
ATOM   6451  C4  G   A 310     127.971  77.193  -2.910  1.00 24.29      A16S
ATOM   6452  N3  G   A 310     127.840  77.483  -4.218  1.00 24.29      A16S
ATOM   6453  C2  G   A 310     128.994  77.400  -4.864  1.00 24.29      A16S
ATOM   6454  N2  G   A 310     129.028  77.606  -6.193  1.00 24.29      A16S
ATOM   6455  N1  G   A 310     130.189  77.096  -4.256  1.00 24.29      A16S
ATOM   6456  C6  G   A 310     130.344  76.817  -2.903  1.00 24.29      A16S
ATOM   6457  O6  G   A 310     131.463  76.575  -2.444  1.00 24.29      A16S
ATOM   6458  C5  G   A 310     129.110  76.865  -2.219  1.00 24.29      A16S
ATOM   6459  N7  G   A 310     128.819  76.611  -0.891  1.00 24.29      A16S
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ATOM   6460  C8  G   A 310     127.532  76.786  -0.799  1.00 24.29      A16S
ATOM   6461  C2* G   A 310     124.839  76.206  -2.832  1.00 32.31      A16S
ATOM   6462  O2* G   A 310     123.789  76.691  -3.644  1.00 32.31      A16S
ATOM   6463  C3* G   A 310     124.302  75.485  -1.606  1.00 32.31      A16S
ATOM   6464  O3* G   A 310     123.204  74.672  -1.957  1.00 32.31      A16S
ATOM   6465  P   C   A 311     123.459  73.145  -2.395  1.00 35.04      A16S
ATOM   6466  O1P C   A 311     122.089  72.538  -2.604  1.00 29.97      A16S
ATOM   6467  O2P C   A 311     124.389  72.553  -1.378  1.00 29.97      A16S
ATOM   6468  O5* C   A 311     124.243  73.244  -3.789  1.00 35.04      A16S
ATOM   6469  C5* C   A 311     123.579  73.691  -4.989  1.00 35.04      A16S
ATOM   6470  C4* C   A 311     124.566  73.880  -6.127  1.00 35.04      A16S
ATOM   6471  O4* C   A 311     125.559  74.876  -5.764  1.00 35.04      A16S
ATOM   6472  C1* C   A 311     126.793  74.585  -6.403  1.00 35.04      A16S
ATOM   6473  N1  C   A 311     127.816  74.291  -5.385  1.00 29.97      A16S
ATOM   6474  C6  C   A 311     127.489  74.177  -4.066  1.00 29.97      A16S
ATOM   6475  C2  C   A 311     129.128  74.110  -5.794  1.00 29.97      A16S
ATOM   6476  O2  C   A 311     129.402  74.218  -6.999  1.00 29.97      A16S
ATOM   6477  N3  C   A 311     130.068  73.817  -4.878  1.00 29.97      A16S
ATOM   6478  C4  C   A 311     129.736  73.709  -3.600  1.00 29.97      A16S
ATOM   6479  N4  C   A 311     130.695  73.438  -2.734  1.00 29.97      A16S
ATOM   6480  C5  C   A 311     128.410  73.882  -3.153  1.00 29.97      A16S
ATOM   6481  C2* C   A 311     126.569  73.354  -7.263  1.00 35.04      A16S
ATOM   6482  O2* C   A 311     126.206  73.793  -8.541  1.00 35.04      A16S
ATOM   6483  C3* C   A 311     125.410  72.690  -6.546  1.00 35.04      A16S
ATOM   6484  O3* C   A 311     124.742  71.775  -7.391  1.00 35.04      A16S
ATOM   6485  P   C   A 312     125.099  70.210  -7.286  1.00 39.61      A16S
ATOM   6486  O1P C   A 312     124.115  69.498  -8.144  1.00 25.16      A16S
ATOM   6487  O2P C   A 312     125.226  69.861  -5.845  1.00 25.16      A16S
ATOM   6488  O5* C   A 312     126.526  70.099  -7.975  1.00 39.61      A16S
ATOM   6489  C5* C   A 312     126.678  70.501  -9.340  1.00 39.61      A16S
ATOM   6490  C4* C   A 312     128.118  70.435  -9.760  1.00 39.61      A16S
ATOM   6491  O4* C   A 312     128.911  71.356  -8.973  1.00 39.61      A16S
ATOM   6492  C1* C   A 312     130.191  70.803  -8.746  1.00 39.61      A16S
ATOM   6493  N1  C   A 312     130.346  70.583  -7.306  1.00 25.16      A16S
ATOM   6494  C6  C   A 312     129.266  70.594  -6.470  1.00 25.16      A16S
ATOM   6495  C2  C   A 312     131.617  70.351  -6.806  1.00 25.16      A16S
ATOM   6496  O2  C   A 312     132.572  70.348  -7.590  1.00 25.16      A16S
ATOM   6497  N3  C   A 312     131.781  70.133  -5.490  1.00 25.16      A16S
ATOM   6498  C4  C   A 312     130.724  70.134  -4.685  1.00 25.16      A16S
ATOM   6499  N4  C   A 312     130.928  69.895  -3.395  1.00 25.16      A16S
ATOM   6500  C5  C   A 312     129.408  70.377  -5.168  1.00 25.16      A16S
ATOM   6501  C2* C   A 312     130.263  69.488  -9.512  1.00 39.61      A16S
ATOM   6502  O2* C   A 312     130.819  69.766 -10.781  1.00 39.61      A16S
ATOM   6503  C3* C   A 312     128.795  69.097  -9.576  1.00 39.61      A16S
ATOM   6504  O3* C   A 312     128.484  68.222 -10.644  1.00 39.61      A16S
ATOM   6505  P   A   A 313     128.370  66.647 -10.358  1.00 29.78      A16S
ATOM   6506  O1P A   A 313     127.816  66.024 -11.582  1.00 26.52      A16S
ATOM   6507  O2P A   A 313     127.668  66.437  -9.071  1.00 26.52      A16S
ATOM   6508  O5* A   A 313     129.887  66.212 -10.161  1.00 29.78      A16S
ATOM   6509  C5* A   A 313     130.835  66.395 -11.206  1.00 29.78      A16S
ATOM   6510  C4* A   A 313     132.204  66.053 -10.706  1.00 29.78      A16S
ATOM   6511  O4* A   A 313     132.611  67.046  -9.743  1.00 29.78      A16S
ATOM   6512  C1* A   A 313     133.308  66.434  -8.681  1.00 29.78      A16S
ATOM   6513  N9  A   A 313     132.515  66.623  -7.473  1.00 26.52      A16S
ATOM   6514  C4  A   A 313     132.962  66.501  -6.188  1.00 26.52      A16S
ATOM   6515  N3  A   A 313     134.204  66.198  -5.787  1.00 26.52      A16S
ATOM   6516  C2  A   A 313     134.264  66.148  -4.468  1.00 26.52      A16S
ATOM   6517  N1  A   A 313     133.294  66.349  -3.571  1.00 26.52      A16S
ATOM   6518  C6  A   A 313     132.058  66.647  -4.017  1.00 26.52      A16S
ATOM   6519  N6  A   A 313     131.087  66.834  -3.132  1.00 26.52      A16S
ATOM   6520  C5  A   A 313     131.868  66.735  -5.390  1.00 26.52      A16S
ATOM   6521  N7  A   A 313     130.749  67.012  -6.156  1.00 26.52      A16S
ATOM   6522  C8  A   A 313     131.186  66.937  -7.381  1.00 26.52      A16S
ATOM   6523  C2* A   A 313     133.478  64.961  -9.035  1.00 29.78      A16S
ATOM   6524  O2* A   A 313     134.717  64.846  -9.685  1.00 29.78      A16S
ATOM   6525  C3* A   A 313     132.299  64.731  -9.972  1.00 29.78      A16S
ATOM   6526  O3* A   A 313     132.508  63.679 -10.907  1.00 29.78      A16S
ATOM   6527  P   C   A 314     132.062  62.180 -10.544  1.00 32.23      A16S
ATOM   6528  O1P C   A 314     132.352  61.403 -11.762  1.00 30.25      A16S
ATOM   6529  O2P C   A 314     130.692  62.148  -9.956  1.00 30.25      A16S
ATOM   6530  O5* C   A 314     133.107  61.728  -9.432  1.00 32.23      A16S
ATOM   6531  C5* C   A 314     134.485  61.549  -9.776  1.00 32.23      A16S
ATOM   6532  C4* C   A 314     135.331  61.401  -8.538  1.00 32.23      A16S
ATOM   6533  O4* C   A 314     135.210  62.590  -7.727  1.00 32.23      A16S
ATOM   6534  C1* C   A 314     135.395  62.253  -6.371  1.00 32.23      A16S
ATOM   6535  N1  C   A 314     134.190  62.624  -5.632  1.00 30.25      A16S
ATOM   6536  C6  C   A 314     132.992  62.766  -6.268  1.00 30.25      A16S
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ATOM   6537  C2  C   A 314     134.286  62.820  -4.250  1.00 30.25      A16S
ATOM   6538  O2  C   A 314     135.392  62.692  -3.702  1.00 30.25      A16S
ATOM   6539  N3  C   A 314     133.174  63.142  -3.550  1.00 30.25      A16S
ATOM   6540  C4  C   A 314     132.012  63.277  -4.182  1.00 30.25      A16S
ATOM   6541  N4  C   A 314     130.950  63.603  -3.465  1.00 30.25      A16S
ATOM   6542  C5  C   A 314     131.889  63.087  -5.587  1.00 30.25      A16S
ATOM   6543  C2* C   A 314     135.653  60.751  -6.291  1.00 32.23      A16S
ATOM   6544  O2* C   A 314     137.057  60.553  -6.243  1.00 32.23      A16S
ATOM   6545  C3* C   A 314     135.014  60.262  -7.583  1.00 32.23      A16S
ATOM   6546  O3* C   A 314     135.571  59.028  -8.025  1.00 32.23      A16S
ATOM   6547  P   A   A 315     134.845  57.642  -7.647  1.00 46.23      A16S
ATOM   6548  O1P A   A 315     135.516  56.624  -8.489  1.00 46.84      A16S
ATOM   6549  O2P A   A 315     133.361  57.763  -7.704  1.00 46.84      A16S
ATOM   6550  O5* A   A 315     135.264  57.422  -6.128  1.00 46.23      A16S
ATOM   6551  C5* A   A 315     136.637  57.565  -5.733  1.00 46.23      A16S
ATOM   6552  C4* A   A 315     136.802  57.230  -4.275  1.00 46.23      A16S
ATOM   6553  O4* A   A 315     136.074  58.204  -3.493  1.00 46.23      A16S
ATOM   6554  C1* A   A 315     135.125  57.553  -2.687  1.00 46.23      A16S
ATOM   6555  N9  A   A 315     133.928  58.391  -2.630  1.00 46.84      A16S
ATOM   6556  C4  A   A 315     133.517  59.111  -1.541  1.00 46.84      A16S
ATOM   6557  N3  A   A 315     134.137  59.212  -0.360  1.00 46.84      A16S
ATOM   6558  C2  A   A 315     133.427  59.961   0.468  1.00 46.84      A16S
ATOM   6559  N1  A   A 315     132.251  60.570   0.266  1.00 46.84      A16S
ATOM   6560  C6  A   A 315     131.655  60.437  -0.932  1.00 46.84      A16S
ATOM   6561  N6  A   A 315     130.469  61.010  -1.125  1.00 46.84      A16S
ATOM   6562  C5  A   A 315     132.314  59.687  -1.901  1.00 46.84      A16S
ATOM   6563  N7  A   A 315     131.989  59.370  -3.208  1.00 46.84      A16S
ATOM   6564  C8  A   A 315     132.980  58.606  -3.600  1.00 46.84      A16S
ATOM   6565  C2* A   A 315     134.901  56.174  -3.309  1.00 46.23      A16S
ATOM   6566  O2* A   A 315     134.474  55.228  -2.353  1.00 46.23      A16S
ATOM   6567  C3* A   A 315     136.283  55.860  -3.864  1.00 46.23      A16S
ATOM   6568  O3* A   A 315     137.126  55.333  -2.837  1.00 46.23      A16S
ATOM   6569  P   G   A 316     137.383  53.749  -2.741  1.00 46.41      A16S
ATOM   6570  O1P G   A 316     136.609  53.072  -3.817  1.00 60.69      A16S
ATOM   6571  O2P G   A 316     137.151  53.366  -1.331  1.00 60.69      A16S
ATOM   6572  O5* G   A 316     138.929  53.575  -3.080  1.00 46.41      A16S
ATOM   6573  C5* G   A 316     139.918  54.444  -2.521  1.00 46.41      A16S
ATOM   6574  C4* G   A 316     141.238  54.248  -3.232  1.00 46.41      A16S
ATOM   6575  O4* G   A 316     141.746  52.919  -2.949  1.00 46.41      A16S
ATOM   6576  C1* G   A 316     142.366  52.383  -4.105  1.00 46.41      A16S
ATOM   6577  N9  G   A 316     141.621  51.193  -4.502  1.00 60.69      A16S
ATOM   6578  C4  G   A 316     141.884  50.388  -5.578  1.00 60.69      A16S
ATOM   6579  N3  G   A 316     142.881  50.559  -6.460  1.00 60.69      A16S
ATOM   6580  C2  G   A 316     142.877  49.634  -7.397  1.00 60.69      A16S
ATOM   6581  N2  G   A 316     143.784  49.686  -8.375  1.00 60.69      A16S
ATOM   6582  N1  G   A 316     141.977  48.599  -7.452  1.00 60.69      A16S
ATOM   6583  C6  G   A 316     140.940  48.395  -6.549  1.00 60.69      A16S
ATOM   6584  O6  G   A 316     140.180  47.419  -6.684  1.00 60.69      A16S
ATOM   6585  C5  G   A 316     140.921  49.404  -5.547  1.00 60.69      A16S
ATOM   6586  N7  G   A 316     140.063  49.589  -4.472  1.00 60.69      A16S
ATOM   6587  C8  G   A 316     140.518  50.659  -3.880  1.00 60.69      A16S
ATOM   6588  C2* G   A 316     142.348  53.466  -5.187  1.00 46.41      A16S
ATOM   6589  O2* G   A 316     143.552  54.199  -5.186  1.00 46.41      A16S
ATOM   6590  C3* G   A 316     141.170  54.319  -4.751  1.00 46.41      A16S
ATOM   6591  O3* G   A 316     141.283  55.641  -5.241  1.00 46.41      A16S
ATOM   6592  P   G   A 317     140.411  56.084  -6.503  1.00 45.58      A16S
ATOM   6593  O1P G   A 317     140.446  57.574  -6.557  1.00 41.24      A16S
ATOM   6594  O2P G   A 317     139.108  55.380  -6.447  1.00 41.24      A16S
ATOM   6595  O5* G   A 317     141.196  55.478  -7.743  1.00 45.58      A16S
ATOM   6596  C5* G   A 317     142.429  56.052  -8.192  1.00 45.58      A16S
ATOM   6597  C4* G   A 317     142.899  55.359  -9.451  1.00 45.58      A16S
ATOM   6598  O4* G   A 317     143.327  53.999  -9.152  1.00 45.58      A16S
ATOM   6599  C1* G   A 317     142.955  53.132 -10.217  1.00 45.58      A16S
ATOM   6600  N9  G   A 317     141.989  52.162  -9.702  1.00 41.24      A16S
ATOM   6601  C4  G   A 317     141.538  51.020 -10.328  1.00 41.24      A16S
ATOM   6602  N3  G   A 317     141.917  50.572 -11.540  1.00 41.24      A16S
ATOM   6603  C2  G   A 317     141.292  49.456 -11.869  1.00 41.24      A16S
ATOM   6604  N2  G   A 317     141.540  48.877 -13.036  1.00 41.24      A16S
ATOM   6605  N1  G   A 317     140.375  48.830 -11.078  1.00 41.24      A16S
ATOM   6606  C6  G   A 317     139.968  49.272  -9.832  1.00 41.24      A16S
ATOM   6607  O6  G   A 317     139.122  48.635  -9.200  1.00 41.24      A16S
ATOM   6608  C5  G   A 317     140.626  50.465  -9.462  1.00 41.24      A16S
ATOM   6609  N7  G   A 317     140.509  51.230  -8.314  1.00 41.24      A16S
ATOM   6610  C8  G   A 317     141.335  52.221  -8.500  1.00 41.24      A16S
ATOM   6611  C2* G   A 317     142.352  54.007 -11.317  1.00 45.58      A16S
ATOM   6612  O2* G   A 317     143.364  54.414 -12.215  1.00 45.58      A16S
ATOM   6613  C3* G   A 317     141.833  55.186 -10.513  1.00 45.58      A16S
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ATOM   6614  O3*  G   A 317     141.653  56.334 -11.301  1.00 45.58      A16S
ATOM   6615  P    G   A 318     140.192  56.655 -11.881  1.00 53.76      A16S
ATOM   6616  O1P  G   A 318     140.309  57.883 -12.715  1.00 57.81      A16S
ATOM   6617  O2P  G   A 318     139.195  56.606 -10.764  1.00 57.81      A16S
ATOM   6618  O5*  G   A 318     139.890  55.436 -12.856  1.00 53.76      A16S
ATOM   6619  C5*  G   A 318     140.616  55.296 -14.066  1.00 53.76      A16S
ATOM   6620  C4*  G   A 318     140.120  54.112 -14.844  1.00 53.76      A16S
ATOM   6621  O4*  G   A 318     140.369  52.895 -14.097  1.00 53.76      A16S
ATOM   6622  C1*  G   A 318     139.459  51.899 -14.524  1.00 53.76      A16S
ATOM   6623  N9   G   A 318     138.757  51.350 -13.373  1.00 57.81      A16S
ATOM   6624  C4   G   A 318     138.034  50.192 -13.367  1.00 57.81      A16S
ATOM   6625  N3   G   A 318     137.886  49.355 -14.408  1.00 57.81      A16S
ATOM   6626  C2   G   A 318     137.116  48.330 -14.111  1.00 57.81      A16S
ATOM   6627  N2   G   A 318     136.874  47.395 -15.041  1.00 57.81      A16S
ATOM   6628  N1   G   A 318     136.534  48.146 -12.882  1.00 57.81      A16S
ATOM   6629  C6   G   A 318     136.678  49.001 -11.797  1.00 57.81      A16S
ATOM   6630  O6   G   A 318     136.111  48.748 -10.736  1.00 57.81      A16S
ATOM   6631  C5   G   A 318     137.503  50.097 -12.107  1.00 57.81      A16S
ATOM   6632  N7   G   A 318     137.898  51.168 -11.326  1.00 57.81      A16S
ATOM   6633  C8   G   A 318     138.649  51.881 -12.118  1.00 57.81      A16S
ATOM   6634  C2*  G   A 318     138.481  52.553 -15.500  1.00 53.76      A16S
ATOM   6635  O2*  G   A 318     138.895  52.303 -16.828  1.00 53.76      A16S
ATOM   6636  C3*  G   A 318     138.637  54.026 -15.160  1.00 53.76      A16S
ATOM   6637  O3*  G   A 318     138.242  54.817 -16.268  1.00 53.76      A16S
ATOM   6638  P    G   A 319     136.730  55.374 -16.344  1.00 41.20      A16S
ATOM   6639  O1P  G   A 319     136.693  56.254 -17.543  1.00 61.07      A16S
ATOM   6640  O2P  G   A 319     136.334  55.918 -15.015  1.00 61.07      A16S
ATOM   6641  O5*  G   A 319     135.830  54.094 -16.631  1.00 41.20      A16S
ATOM   6642  C5*  G   A 319     135.738  53.588 -17.952  1.00 41.20      A16S
ATOM   6643  C4*  G   A 319     135.261  52.159 -17.962  1.00 41.20      A16S
ATOM   6644  O4*  G   A 319     135.874  51.396 -16.889  1.00 41.20      A16S
ATOM   6645  C1*  G   A 319     135.050  50.280 -16.592  1.00 41.20      A16S
ATOM   6646  N9   G   A 319     134.690  50.279 -15.181  1.00 61.07      A16S
ATOM   6647  C4   G   A 319     133.942  49.310 -14.573  1.00 61.07      A16S
ATOM   6648  N3   G   A 319     133.467  48.201 -15.167  1.00 61.07      A16S
ATOM   6649  C2   G   A 319     132.772  47.456 -14.333  1.00 61.07      A16S
ATOM   6650  N2   G   A 319     132.244  46.297 -14.750  1.00 61.07      A16S
ATOM   6651  N1   G   A 319     132.548  47.784 -13.028  1.00 61.07      A16S
ATOM   6652  C6   G   A 319     133.030  48.917 -12.399  1.00 61.07      A16S
ATOM   6653  O6   G   A 319     132.774  49.106 -11.211  1.00 61.07      A16S
ATOM   6654  C5   G   A 319     133.788  49.722 -13.280  1.00 61.07      A16S
ATOM   6655  N7   G   A 319     134.446  50.923 -13.065  1.00 61.07      A16S
ATOM   6656  C8   G   A 319     134.973  51.212 -14.222  1.00 61.07      A16S
ATOM   6657  C2*  G   A 319     133.772  50.424 -17.415  1.00 41.20      A16S
ATOM   6658  O2*  G   A 319     133.855  49.569 -18.539  1.00 41.20      A16S
ATOM   6659  C3*  G   A 319     133.787  51.909 -17.743  1.00 41.20      A16S
ATOM   6660  O3*  G   A 319     133.001  52.224 -18.869  1.00 41.20      A16S
ATOM   6661  P    C   A 320     131.574  52.921 -18.641  1.00 53.08      A16S
ATOM   6662  O1P  C   A 320     130.991  53.313 -19.957  1.00 55.16      A16S
ATOM   6663  O2P  C   A 320     131.749  53.948 -17.583  1.00 55.16      A16S
ATOM   6664  O5*  C   A 320     130.685  51.742 -18.037  1.00 53.08      A16S
ATOM   6665  C5*  C   A 320     130.527  50.513 -18.759  1.00 53.08      A16S
ATOM   6666  C4*  C   A 320     129.809  49.482 -17.923  1.00 53.08      A16S
ATOM   6667  O4*  C   A 320     130.556  49.179 -16.717  1.00 53.08      A16S
ATOM   6668  C1*  C   A 320     129.668  48.647 -15.748  1.00 53.08      A16S
ATOM   6669  N1   C   A 320     129.858  49.327 -14.451  1.00 55.16      A16S
ATOM   6670  C6   C   A 320     130.511  50.522 -14.349  1.00 55.16      A16S
ATOM   6671  C2   C   A 320     129.318  48.729 -13.314  1.00 55.16      A16S
ATOM   6672  O2   C   A 320     128.773  47.630 -13.429  1.00 55.16      A16S
ATOM   6673  N3   C   A 320     129.402  49.356 -12.122  1.00 55.16      A16S
ATOM   6674  C4   C   A 320     130.006  50.535 -12.035  1.00 55.16      A16S
ATOM   6675  N4   C   A 320     130.031  51.133 -10.845  1.00 55.16      A16S
ATOM   6676  C5   C   A 320     130.604  51.159 -13.168  1.00 55.16      A16S
ATOM   6677  C2*  C   A 320     128.243  48.807 -16.286  1.00 53.08      A16S
ATOM   6678  O2*  C   A 320     127.790  47.562 -16.784  1.00 53.08      A16S
ATOM   6679  C3*  C   A 320     128.435  49.836 -17.394  1.00 53.08      A16S
ATOM   6680  O3*  C   A 320     127.445  49.706 -18.390  1.00 53.08      A16S
ATOM   6681  P    A   A 321     126.399  50.898 -18.616  1.00 42.18      A16S
ATOM   6682  O1P  A   A 321     125.955  50.830 -20.036  1.00 39.08      A16S
ATOM   6683  O2P  A   A 321     126.966  52.164 -18.087  1.00 39.08      A16S
ATOM   6684  O5*  A   A 321     125.169  50.521 -17.684  1.00 42.18      A16S
ATOM   6685  C5*  A   A 321     124.223  49.546 -18.103  1.00 42.18      A16S
ATOM   6686  C4*  A   A 321     124.066  48.503 -17.042  1.00 42.18      A16S
ATOM   6687  O4*  A   A 321     125.246  48.491 -16.197  1.00 42.18      A16S
ATOM   6688  C1*  A   A 321     124.885  48.080 -14.897  1.00 42.18      A16S
ATOM   6689  N9   A   A 321     125.330  49.081 -13.932  1.00 39.08      A16S
ATOM   6690  C4   A   A 321     125.283  48.934 -12.566  1.00 39.08      A16S
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ATOM   6691  N3  A   A 321     124.835  47.872 -11.874  1.00 39.08      A16S
ATOM   6692  C2  A   A 321     124.937  48.090 -10.570  1.00 39.08      A16S
ATOM   6693  N1  A   A 321     125.409  49.156  -9.925  1.00 39.08      A16S
ATOM   6694  C6  A   A 321     125.866  50.195 -10.643  1.00 39.08      A16S
ATOM   6695  N6  A   A 321     126.369  51.232  -9.998  1.00 39.08      A16S
ATOM   6696  C5  A   A 321     125.795  50.106 -12.039  1.00 39.08      A16S
ATOM   6697  N7  A   A 321     126.158  50.982 -13.053  1.00 39.08      A16S
ATOM   6698  C8  A   A 321     125.866  50.326 -14.155  1.00 39.08      A16S
ATOM   6699  C2* A   A 321     123.373  47.851 -14.885  1.00 42.18      A16S
ATOM   6700  O2* A   A 321     123.160  46.471 -15.117  1.00 42.18      A16S
ATOM   6701  C3* A   A 321     122.915  48.684 -16.073  1.00 42.18      A16S
ATOM   6702  O3* A   A 321     121.736  48.152 -16.657  1.00 42.18      A16S
ATOM   6703  P   C   A 322     120.307  48.419 -15.973  1.00 37.67      A16S
ATOM   6704  O1P C   A 322     119.302  47.887 -16.925  1.00 44.48      A16S
ATOM   6705  O2P C   A 322     120.210  49.818 -15.535  1.00 44.48      A16S
ATOM   6706  O5* C   A 322     120.332  47.542 -14.640  1.00 37.67      A16S
ATOM   6707  C5* C   A 322     120.258  46.103 -14.683  1.00 37.67      A16S
ATOM   6708  C4* C   A 322     120.129  45.546 -13.284  1.00 37.67      A16S
ATOM   6709  O4* C   A 322     121.330  45.834 -12.523  1.00 37.67      A16S
ATOM   6710  C1* C   A 322     120.986  46.102 -11.173  1.00 37.67      A16S
ATOM   6711  N1  C   A 322     121.403  47.473 -10.849  1.00 44.48      A16S
ATOM   6712  C6  C   A 322     121.489  48.428 -11.820  1.00 44.48      A16S
ATOM   6713  C2  C   A 322     121.699  47.785  -9.533  1.00 44.48      A16S
ATOM   6714  O2  C   A 322     121.596  46.905  -8.672  1.00 44.48      A16S
ATOM   6715  N3  C   A 322     122.083  49.035  -9.224  1.00 44.48      A16S
ATOM   6716  C4  C   A 322     122.160  49.959 -10.177  1.00 44.48      A16S
ATOM   6717  N4  C   A 322     122.536  51.178  -9.829  1.00 44.48      A16S
ATOM   6718  C5  C   A 322     121.856  49.672 -11.528  1.00 44.48      A16S
ATOM   6719  C2* C   A 322     119.473  45.931 -11.028  1.00 37.67      A16S
ATOM   6720  O2* C   A 322     119.179  44.643 -10.542  1.00 37.67      A16S
ATOM   6721  C3* C   A 322     119.001  46.132 -12.456  1.00 37.67      A16S
ATOM   6722  O3* C   A 322     117.796  45.446 -12.686  1.00 37.67      A16S
ATOM   6723  P   U   A 323     116.420  46.259 -12.703  1.00 36.49      A16S
ATOM   6724  O1P U   A 323     115.348  45.364 -13.226  1.00 50.49      A16S
ATOM   6725  O2P U   A 323     116.693  47.560 -13.386  1.00 50.49      A16S
ATOM   6726  O5* U   A 323     116.169  46.569 -11.165  1.00 36.49      A16S
ATOM   6727  C5* U   A 323     116.236  45.529 -10.190  1.00 36.49      A16S
ATOM   6728  C4* U   A 323     116.205  46.114  -8.802  1.00 36.49      A16S
ATOM   6729  O4* U   A 323     117.490  46.677  -8.443  1.00 36.49      A16S
ATOM   6730  C1* U   A 323     117.302  47.791  -7.587  1.00 36.49      A16S
ATOM   6731  N1  U   A 323     117.931  48.968  -8.205  1.00 50.49      A16S
ATOM   6732  C6  U   A 323     117.987  49.095  -9.568  1.00 50.49      A16S
ATOM   6733  C2  U   A 323     118.451  49.956  -7.379  1.00 50.49      A16S
ATOM   6734  O2  U   A 323     118.463  49.879  -6.162  1.00 50.49      A16S
ATOM   6735  N3  U   A 323     118.966  51.040  -8.039  1.00 50.49      A16S
ATOM   6736  C4  U   A 323     119.026  51.232  -9.400  1.00 50.49      A16S
ATOM   6737  O4  U   A 323     119.423  52.303  -9.843  1.00 50.49      A16S
ATOM   6738  C5  U   A 323     118.505  50.162 -10.174  1.00 50.49      A16S
ATOM   6739  C2* U   A 323     115.797  47.972  -7.398  1.00 36.49      A16S
ATOM   6740  O2* U   A 323     115.401  47.364  -6.192  1.00 36.49      A16S
ATOM   6741  C3* U   A 323     115.242  47.257  -8.615  1.00 36.49      A16S
ATOM   6742  O3* U   A 323     113.932  46.802  -8.433  1.00 36.49      A16S
ATOM   6743  P   G   A 324     112.722  47.757  -8.851  1.00 33.05      A16S
ATOM   6744  O1P G   A 324     111.493  46.945  -9.030  1.00 58.12      A16S
ATOM   6745  O2P G   A 324     113.174  48.645  -9.955  1.00 58.12      A16S
ATOM   6746  O5* G   A 324     112.536  48.633  -7.550  1.00 33.05      A16S
ATOM   6747  C5* G   A 324     112.000  49.934  -7.648  1.00 33.05      A16S
ATOM   6748  C4* G   A 324     112.651  50.828  -6.643  1.00 33.05      A16S
ATOM   6749  O4* G   A 324     114.091  50.738  -6.746  1.00 33.05      A16S
ATOM   6750  C1* G   A 324     114.647  52.038  -6.793  1.00 33.05      A16S
ATOM   6751  N9  G   A 324     115.031  52.285  -8.181  1.00 58.12      A16S
ATOM   6752  C4  G   A 324     115.955  53.191  -8.659  1.00 58.12      A16S
ATOM   6753  N3  G   A 324     116.687  54.053  -7.925  1.00 58.12      A16S
ATOM   6754  C2  G   A 324     117.467  54.806  -8.684  1.00 58.12      A16S
ATOM   6755  N2  G   A 324     118.247  55.734  -8.128  1.00 58.12      A16S
ATOM   6756  N1  G   A 324     117.534  54.709 -10.042  1.00 58.12      A16S
ATOM   6757  C6  G   A 324     116.791  53.827 -10.816  1.00 58.12      A16S
ATOM   6758  O6  G   A 324     116.917  53.820 -12.042  1.00 58.12      A16S
ATOM   6759  C5  G   A 324     115.948  53.027 -10.028  1.00 58.12      A16S
ATOM   6760  N7  G   A 324     115.044  52.046 -10.406  1.00 58.12      A16S
ATOM   6761  C8  G   A 324     114.525  51.636  -9.284  1.00 58.12      A16S
ATOM   6762  C2* G   A 324     113.541  52.973  -6.304  1.00 33.05      A16S
ATOM   6763  O2* G   A 324     113.508  52.928  -4.882  1.00 33.05      A16S
ATOM   6764  C3* G   A 324     112.313  52.281  -6.863  1.00 33.05      A16S
ATOM   6765  O3* G   A 324     111.117  52.572  -6.169  1.00 33.05      A16S
ATOM   6766  P   A   A 325     109.849  53.114  -6.975  1.00 45.36      A16S
ATOM   6767  O1P A   A 325     109.799  52.431  -8.297  1.00 50.62      A16S
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ATOM   6768  O2P A   A 325     108.676  53.049  -6.075  1.00 50.62      A16S
ATOM   6769  O5* A   A 325     110.201  54.647  -7.214  1.00 45.36      A16S
ATOM   6770  C5* A   A 325     109.461  55.423  -8.155  1.00 45.36      A16S
ATOM   6771  C4* A   A 325     109.935  56.844  -8.142  1.00 45.36      A16S
ATOM   6772  O4* A   A 325     109.652  57.433  -6.853  1.00 45.36      A16S
ATOM   6773  C1* A   A 325     110.630  58.411  -6.557  1.00 45.36      A16S
ATOM   6774  N9   A   A 325     111.224  58.110  -5.254  1.00 50.62      A16S
ATOM   6775  C4   A   A 325     111.870  59.000  -4.433  1.00 50.62      A16S
ATOM   6776  N3   A   A 325     112.090  60.302  -4.659  1.00 50.62      A16S
ATOM   6777  C2   A   A 325     112.726  60.853  -3.633  1.00 50.62      A16S
ATOM   6778  N1   A   A 325     113.145  60.292  -2.495  1.00 50.62      A16S
ATOM   6779  C6   A   A 325     112.918  58.978  -2.304  1.00 50.62      A16S
ATOM   6780  N6   A   A 325     113.354  58.415  -1.178  1.00 50.62      A16S
ATOM   6781  C5   A   A 325     112.240  58.283  -3.312  1.00 50.62      A16S
ATOM   6782  N7   A   A 325     111.842  56.962  -3.424  1.00 50.62      A16S
ATOM   6783  C8   A   A 325     111.249  56.911  -4.593  1.00 50.62      A16S
ATOM   6784  C2* A   A 325     111.633  58.433  -7.711  1.00 45.36      A16S
ATOM   6785  O2* A   A 325     111.282  59.485  -8.594  1.00 45.36      A16S
ATOM   6786  C3* A   A 325     111.423  57.057  -8.335  1.00 45.36      A16S
ATOM   6787  O3* A   A 325     111.785  57.024  -9.711  1.00 45.36      A16S
ATOM   6788  P    G   A 326     113.084  56.185 -10.176  1.00 31.63      A16S
ATOM   6789  O1P G   A 326     113.044  56.182 -11.666  1.00 57.36      A16S
ATOM   6790  O2P G   A 326     113.094  54.893  -9.443  1.00 57.36      A16S
ATOM   6791  O5* G   A 326     114.330  57.053  -9.682  1.00 31.63      A16S
ATOM   6792  C5* G   A 326     114.464  58.443 -10.076  1.00 31.63      A16S
ATOM   6793  C4* G   A 326     115.311  59.198  -9.084  1.00 31.63      A16S
ATOM   6794  O4* G   A 326     114.676  59.153  -7.788  1.00 31.63      A16S
ATOM   6795  C1* G   A 326     115.655  59.039  -6.777  1.00 31.63      A16S
ATOM   6796  N9   G   A 326     115.293  57.898  -5.935  1.00 57.36      A16S
ATOM   6797  C4   G   A 326     115.552  57.729  -4.590  1.00 57.36      A16S
ATOM   6798  N3   G   A 326     116.237  58.577  -3.795  1.00 57.36      A16S
ATOM   6799  C2   G   A 326     116.306  58.136  -2.551  1.00 57.36      A16S
ATOM   6800  N2   G   A 326     116.963  58.844  -1.628  1.00 57.36      A16S
ATOM   6801  N1   G   A 326     115.741  56.969  -2.122  1.00 57.36      A16S
ATOM   6802  C6   G   A 326     115.029  56.087  -2.922  1.00 57.36      A16S
ATOM   6803  O6   G   A 326     114.549  55.053  -2.432  1.00 57.36      A16S
ATOM   6804  C5   G   A 326     114.958  56.536  -4.253  1.00 57.36      A16S
ATOM   6805  N7   G   A 326     114.357  55.956  -5.356  1.00 57.36      A16S
ATOM   6806  C8   G   A 326     114.585  56.791  -6.328  1.00 57.36      A16S
ATOM   6807  C2* G   A 326     117.036  59.027  -7.452  1.00 31.63      A16S
ATOM   6808  O2* G   A 326     117.596  60.325  -7.436  1.00 31.63      A16S
ATOM   6809  C3* G   A 326     116.702  58.636  -8.885  1.00 31.63      A16S
ATOM   6810  O3* G   A 326     117.576  59.307  -9.781  1.00 31.63      A16S
ATOM   6811  P    A   A 327     118.610  58.468 -10.677  1.00 38.07      A16S
ATOM   6812  O1P A   A 327     119.286  59.448 -11.547  1.00 39.88      A16S
ATOM   6813  O2P A   A 327     117.916  57.294 -11.298  1.00 39.88      A16S
ATOM   6814  O5* A   A 327     119.705  57.956  -9.642  1.00 38.07      A16S
ATOM   6815  C5* A   A 327     120.535  58.892  -8.963  1.00 38.07      A16S
ATOM   6816  C4* A   A 327     121.789  58.225  -8.456  1.00 38.07      A16S
ATOM   6817  O4* A   A 327     121.449  57.269  -7.421  1.00 38.07      A16S
ATOM   6818  C1* A   A 327     122.167  56.085  -7.630  1.00 38.07      A16S
ATOM   6819  N9   A   A 327     121.422  54.967  -7.056  1.00 39.88      A16S
ATOM   6820  C4   A   A 327     121.380  54.645  -5.724  1.00 39.88      A16S
ATOM   6821  N3   A   A 327     121.968  55.294  -4.710  1.00 39.88      A16S
ATOM   6822  C2   A   A 327     121.730  54.678  -3.566  1.00 39.88      A16S
ATOM   6823  N1   A   A 327     121.029  53.571  -3.333  1.00 39.88      A16S
ATOM   6824  C6   A   A 327     120.457  52.945  -4.373  1.00 39.88      A16S
ATOM   6825  N6   A   A 327     119.774  51.829  -4.147  1.00 39.88      A16S
ATOM   6826  C5   A   A 327     120.623  53.503  -5.639  1.00 39.88      A16S
ATOM   6827  N7   A   A 327     120.172  53.121  -6.889  1.00 39.88      A16S
ATOM   6828  C8   A   A 327     120.667  54.024  -7.690  1.00 39.88      A16S
ATOM   6829  C2* A   A 327     122.410  56.022  -9.132  1.00 38.07      A16S
ATOM   6830  O2* A   A 327     123.495  55.147  -9.343  1.00 38.07      A16S
ATOM   6831  C3* A   A 327     122.681  57.494  -9.456  1.00 38.07      A16S
ATOM   6832  O3* A   A 327     124.046  57.813  -9.159  1.00 38.07      A16S
ATOM   6833  P    C   A 328     124.695  59.179  -9.710  1.00 39.58      A16S
ATOM   6834  O1P C   A 328     125.721  59.591  -8.713  1.00 48.01      A16S
ATOM   6835  O2P C   A 328     123.618  60.119 -10.096  1.00 48.01      A16S
ATOM   6836  O5* C   A 328     125.461  58.778 -11.032  1.00 39.58      A16S
ATOM   6837  C5* C   A 328     125.087  57.617 -11.720  1.00 39.58      A16S
ATOM   6838  C4* C   A 328     125.732  56.446 -11.064  1.00 39.58      A16S
ATOM   6839  O4* C   A 328     124.876  55.303 -11.212  1.00 39.58      A16S
ATOM   6840  C1* C   A 328     125.513  54.295 -11.945  1.00 39.58      A16S
ATOM   6841  N1   C   A 328     124.480  53.774 -12.865  1.00 48.01      A16S
ATOM   6842  C6   C   A 328     123.325  53.252 -12.349  1.00 48.01      A16S
ATOM   6843  C2   C   A 328     124.666  53.826 -14.241  1.00 48.01      A16S
ATOM   6844  O2   C   A 328     125.707  54.302 -14.689  1.00 48.01      A16S
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ATOM   6845  N3  C   A 328     123.697  53.358 -15.057  1.00 48.01      A16S
ATOM   6846  C4  C   A 328     122.573  52.866 -14.545  1.00 48.01      A16S
ATOM   6847  N4  C   A 328     121.643  52.442 -15.390  1.00 48.01      A16S
ATOM   6848  C5  C   A 328     122.353  52.796 -13.144  1.00 48.01      A16S
ATOM   6849  C2* C   A 328     126.773  54.912 -12.547  1.00 39.58      A16S
ATOM   6850  O2* C   A 328     127.782  53.960 -12.713  1.00 39.58      A16S
ATOM   6851  C3* C   A 328     127.084  56.071 -11.600  1.00 39.58      A16S
ATOM   6852  O3* C   A 328     128.050  56.043 -10.512  1.00 39.58      A16S
ATOM   6853  P   A   A 329     128.284  54.738  -9.596  1.00 42.18      A16S
ATOM   6854  O1P A   A 329     129.653  54.908  -9.055  1.00 41.49      A16S
ATOM   6855  O2P A   A 329     127.957  53.524 -10.364  1.00 41.49      A16S
ATOM   6856  O5* A   A 329     127.239  54.887  -8.394  1.00 42.18      A16S
ATOM   6857  C5* A   A 329     126.892  56.182  -7.881  1.00 42.18      A16S
ATOM   6858  C4* A   A 329     126.392  56.102  -6.445  1.00 42.18      A16S
ATOM   6859  O4* A   A 329     125.128  55.397  -6.369  1.00 42.18      A16S
ATOM   6860  C1* A   A 329     125.187  54.431  -5.339  1.00 42.18      A16S
ATOM   6861  N9  A   A 329     124.430  53.257  -5.766  1.00 41.49      A16S
ATOM   6862  C4  A   A 329     123.919  52.270  -4.965  1.00 41.49      A16S
ATOM   6863  N3  A   A 329     124.028  52.158  -3.635  1.00 41.49      A16S
ATOM   6864  C2  A   A 329     123.395  51.070  -3.203  1.00 41.49      A16S
ATOM   6865  N1  A   A 329     122.714  50.160  -3.894  1.00 41.49      A16S
ATOM   6866  C6  A   A 329     122.617  50.309  -5.231  1.00 41.49      A16S
ATOM   6867  N6  A   A 329     121.921  49.411  -5.934  1.00 41.49      A16S
ATOM   6868  C5  A   A 329     123.252  51.410  -5.810  1.00 41.49      A16S
ATOM   6869  N7  A   A 329     123.353  51.833  -7.123  1.00 41.49      A16S
ATOM   6870  C8  A   A 329     124.064  52.926  -7.043  1.00 41.49      A16S
ATOM   6871  C2* A   A 329     126.665  54.138  -5.110  1.00 42.18      A16S
ATOM   6872  O2* A   A 329     126.835  53.657  -3.795  1.00 42.18      A16S
ATOM   6873  C3* A   A 329     127.303  55.501  -5.380  1.00 42.18      A16S
ATOM   6874  O3* A   A 329     127.222  56.330  -4.219  1.00 42.18      A16S
ATOM   6875  P   C   A 330     128.340  57.463  -3.964  1.00 51.41      A16S
ATOM   6876  O1P C   A 330     127.810  58.409  -2.952  1.00 63.78      A16S
ATOM   6877  O2P C   A 330     128.815  57.977  -5.276  1.00 63.78      A16S
ATOM   6878  O5* C   A 330     129.549  56.697  -3.288  1.00 51.41      A16S
ATOM   6879  C5* C   A 330     129.348  55.979  -2.085  1.00 51.41      A16S
ATOM   6880  C4* C   A 330     130.665  55.573  -1.501  1.00 51.41      A16S
ATOM   6881  O4* C   A 330     131.345  56.743  -0.978  1.00 51.41      A16S
ATOM   6882  C1* C   A 330     131.959  56.427   0.259  1.00 51.41      A16S
ATOM   6883  N1  C   A 330     131.250  57.162   1.317  1.00 63.78      A16S
ATOM   6884  C6  C   A 330     130.011  57.692   1.095  1.00 63.78      A16S
ATOM   6885  C2  C   A 330     131.846  57.268   2.574  1.00 63.78      A16S
ATOM   6886  O2  C   A 330     132.999  56.825   2.740  1.00 63.78      A16S
ATOM   6887  N3  C   A 330     131.158  57.847   3.579  1.00 63.78      A16S
ATOM   6888  C4  C   A 330     129.934  58.321   3.363  1.00 63.78      A16S
ATOM   6889  N4  C   A 330     129.283  58.848   4.400  1.00 63.78      A16S
ATOM   6890  C5  C   A 330     129.323  58.269   2.079  1.00 63.78      A16S
ATOM   6891  C2* C   A 330     131.771  54.924   0.487  1.00 51.41      A16S
ATOM   6892  O2* C   A 330     132.877  54.166   0.024  1.00 51.41      A16S
ATOM   6893  C3* C   A 330     130.502  54.672  -0.302  1.00 51.41      A16S
ATOM   6894  O3* C   A 330     130.303  53.343  -0.696  1.00 51.41      A16S
ATOM   6895  P   G   A 331     128.950  52.612  -0.268  1.00 48.57      A16S
ATOM   6896  O1P G   A 331     128.755  51.458  -1.183  1.00 64.21      A16S
ATOM   6897  O2P G   A 331     127.869  53.621  -0.123  1.00 64.21      A16S
ATOM   6898  O5* G   A 331     129.287  52.084   1.192  1.00 48.57      A16S
ATOM   6899  C5* G   A 331     130.432  51.259   1.429  1.00 48.57      A16S
ATOM   6900  C4* G   A 331     130.602  51.027   2.906  1.00 48.57      A16S
ATOM   6901  O4* G   A 331     131.019  52.253   3.560  1.00 48.57      A16S
ATOM   6902  C1* G   A 331     130.477  52.301   4.869  1.00 48.57      A16S
ATOM   6903  N9  G   A 331     129.646  53.498   5.001  1.00 64.21      A16S
ATOM   6904  C4  G   A 331     128.958  53.895   6.123  1.00 64.21      A16S
ATOM   6905  N3  G   A 331     128.953  53.267   7.312  1.00 64.21      A16S
ATOM   6906  C2  G   A 331     128.189  53.884   8.193  1.00 64.21      A16S
ATOM   6907  N2  G   A 331     128.074  53.402   9.431  1.00 64.21      A16S
ATOM   6908  N1  G   A 331     127.479  55.019   7.928  1.00 64.21      A16S
ATOM   6909  C6  G   A 331     127.461  55.681   6.708  1.00 64.21      A16S
ATOM   6910  O6  G   A 331     126.764  56.690   6.566  1.00 64.21      A16S
ATOM   6911  C5  G   A 331     128.292  55.041   5.758  1.00 64.21      A16S
ATOM   6912  N7  G   A 331     128.575  55.377   4.443  1.00 64.21      A16S
ATOM   6913  C8  G   A 331     129.382  54.437   4.036  1.00 64.21      A16S
ATOM   6914  C2* G   A 331     129.687  51.008   5.079  1.00 48.57      A16S
ATOM   6915  O2* G   A 331     130.542  50.070   5.695  1.00 48.57      A16S
ATOM   6916  C3* G   A 331     129.357  50.602   3.654  1.00 48.57      A16S
ATOM   6917  O3* G   A 331     129.175  49.213   3.574  1.00 48.57      A16S
ATOM   6918  P   G   A 332     127.768  48.617   3.089  1.00 43.37      A16S
ATOM   6919  O1P G   A 332     126.720  49.656   3.199  1.00 47.43      A16S
ATOM   6920  O2P G   A 332     127.593  47.336   3.803  1.00 47.43      A16S
ATOM   6921  O5* G   A 332     128.033  48.253   1.558  1.00 43.37      A16S
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ATOM   6922  C5* G   A 332     127.320  48.896   0.498  1.00 43.37      A16S
ATOM   6923  C4* G   A 332     126.616  47.871  -0.356  1.00 43.37      A16S
ATOM   6924  O4* G   A 332     125.563  48.546  -1.075  1.00 43.37      A16S
ATOM   6925  C1* G   A 332     125.403  47.965  -2.352  1.00 43.37      A16S
ATOM   6926  N9  G   A 332     125.803  48.949  -3.356  1.00 47.43      A16S
ATOM   6927  C4  G   A 332     125.562  48.882  -4.701  1.00 47.43      A16S
ATOM   6928  N3  G   A 332     124.872  47.915  -5.331  1.00 47.43      A16S
ATOM   6929  C2  G   A 332     124.822  48.118  -6.625  1.00 47.43      A16S
ATOM   6930  N2  G   A 332     124.145  47.276  -7.395  1.00 47.43      A16S
ATOM   6931  N1  G   A 332     125.426  49.173  -7.257  1.00 47.43      A16S
ATOM   6932  C6  G   A 332     126.152  50.174  -6.625  1.00 47.43      A16S
ATOM   6933  O6  G   A 332     126.672  51.073  -7.286  1.00 47.43      A16S
ATOM   6934  C5  G   A 332     126.188  49.982  -5.239  1.00 47.43      A16S
ATOM   6935  N7  G   A 332     126.782  50.744  -4.251  1.00 47.43      A16S
ATOM   6936  C8  G   A 332     126.526  50.097  -3.150  1.00 47.43      A16S
ATOM   6937  C2* G   A 332     126.315  46.746  -2.403  1.00 43.37      A16S
ATOM   6938  O2* G   A 332     125.607  45.631  -1.910  1.00 43.37      A16S
ATOM   6939  C3* G   A 332     127.410  47.143  -1.434  1.00 43.37      A16S
ATOM   6940  O3* G   A 332     128.069  45.974  -0.968  1.00 43.37      A16S
ATOM   6941  P   G   A 333     129.076  45.168  -1.948  1.00 38.64      A16S
ATOM   6942  O1P G   A 333     129.429  43.884  -1.279  1.00 58.30      A16S
ATOM   6943  O2P G   A 333     130.173  46.087  -2.374  1.00 58.30      A16S
ATOM   6944  O5* G   A 333     128.195  44.838  -3.233  1.00 38.64      A16S
ATOM   6945  C5* G   A 333     127.356  43.684  -3.270  1.00 38.64      A16S
ATOM   6946  C4* G   A 333     126.998  43.352  -4.692  1.00 38.64      A16S
ATOM   6947  O4* G   A 333     126.261  44.459  -5.266  1.00 38.64      A16S
ATOM   6948  C1* G   A 333     126.609  44.614  -6.630  1.00 38.64      A16S
ATOM   6949  N9  G   A 333     127.288  45.897  -6.769  1.00 58.30      A16S
ATOM   6950  C4  G   A 333     127.659  46.511  -7.938  1.00 58.30      A16S
ATOM   6951  N3  G   A 333     127.430  46.048  -9.178  1.00 58.30      A16S
ATOM   6952  C2  G   A 333     127.926  46.846 -10.097  1.00 58.30      A16S
ATOM   6953  N2  G   A 333     127.776  46.537 -11.377  1.00 58.30      A16S
ATOM   6954  N1  G   A 333     128.601  48.003  -9.824  1.00 58.30      A16S
ATOM   6955  C6  G   A 333     128.849  48.499  -8.550  1.00 58.30      A16S
ATOM   6956  O6  G   A 333     129.473  49.561  -8.405  1.00 58.30      A16S
ATOM   6957  C5  G   A 333     128.316  47.656  -7.558  1.00 58.30      A16S
ATOM   6958  N7  G   A 333     128.337  47.776  -6.179  1.00 58.30      A16S
ATOM   6959  C8  G   A 333     127.713  46.714  -5.753  1.00 58.30      A16S
ATOM   6960  C2* G   A 333     127.540  43.457  -6.989  1.00 38.64      A16S
ATOM   6961  O2* G   A 333     126.765  42.386  -7.485  1.00 38.64      A16S
ATOM   6962  C3* G   A 333     128.167  43.146  -5.637  1.00 38.64      A16S
ATOM   6963  O3* G   A 333     128.674  41.827  -5.549  1.00 38.64      A16S
ATOM   6964  P   C   A 334     130.199  41.531  -5.956  1.00 60.76      A16S
ATOM   6965  O1P C   A 334     130.457  40.125  -5.567  1.00 48.36      A16S
ATOM   6966  O2P C   A 334     131.095  42.598  -5.450  1.00 48.36      A16S
ATOM   6967  O5* C   A 334     130.182  41.616  -7.546  1.00 60.76      A16S
ATOM   6968  C5* C   A 334     129.374  40.711  -8.317  1.00 60.76      A16S
ATOM   6969  C4* C   A 334     129.616  40.919  -9.785  1.00 60.76      A16S
ATOM   6970  O4* C   A 334     129.068  42.198 -10.178  1.00 60.76      A16S
ATOM   6971  C1* C   A 334     129.912  42.804 -11.147  1.00 60.76      A16S
ATOM   6972  N1  C   A 334     130.409  44.091 -10.607  1.00 48.36      A16S
ATOM   6973  C6  C   A 334     130.352  44.348  -9.268  1.00 48.36      A16S
ATOM   6974  C2  C   A 334     130.954  45.046 -11.485  1.00 48.36      A16S
ATOM   6975  O2  C   A 334     130.971  44.813 -12.700  1.00 48.36      A16S
ATOM   6976  N3  C   A 334     131.439  46.201 -10.981  1.00 48.36      A16S
ATOM   6977  C4  C   A 334     131.378  46.435  -9.669  1.00 48.36      A16S
ATOM   6978  N4  C   A 334     131.862  47.591  -9.209  1.00 48.36      A16S
ATOM   6979  C5  C   A 334     130.818  45.495  -8.765  1.00 48.36      A16S
ATOM   6980  C2* C   A 334     131.034  41.812 -11.464  1.00 60.76      A16S
ATOM   6981  O2* C   A 334     130.690  41.060 -12.614  1.00 60.76      A16S
ATOM   6982  C3* C   A 334     131.075  40.983 -10.188  1.00 60.76      A16S
ATOM   6983  O3* C   A 334     131.643  39.699 -10.378  1.00 60.76      A16S
ATOM   6984  P   C   A 335     133.226  39.501 -10.174  1.00 53.76      A16S
ATOM   6985  O1P C   A 335     133.501  38.045 -10.191  1.00 48.49      A16S
ATOM   6986  O2P C   A 335     133.656  40.306  -9.001  1.00 48.49      A16S
ATOM   6987  O5* C   A 335     133.860  40.182 -11.469  1.00 53.76      A16S
ATOM   6988  C5* C   A 335     133.599  39.652 -12.779  1.00 53.76      A16S
ATOM   6989  C4* C   A 335     134.362  40.432 -13.813  1.00 53.76      A16S
ATOM   6990  O4* C   A 335     133.739  41.722 -13.997  1.00 53.76      A16S
ATOM   6991  C1* C   A 335     134.742  42.707 -14.192  1.00 53.76      A16S
ATOM   6992  N1  C   A 335     134.689  43.655 -13.062  1.00 48.49      A16S
ATOM   6993  C6  C   A 335     134.120  43.294 -11.875  1.00 48.49      A16S
ATOM   6994  C2  C   A 335     135.247  44.922 -13.215  1.00 48.49      A16S
ATOM   6995  O2  C   A 335     135.717  45.238 -14.309  1.00 48.49      A16S
ATOM   6996  N3  C   A 335     135.257  45.770 -12.167  1.00 48.49      A16S
ATOM   6997  C4  C   A 335     134.718  45.399 -11.006  1.00 48.49      A16S
ATOM   6998  N4  C   A 335     134.767  46.256  -9.982  1.00 48.49      A16S
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ATOM   6999  C5  C   A 335     134.110  44.127 -10.834  1.00 48.49      A16S
ATOM   7000  C2* C   A 335     136.094  41.991 -14.245  1.00 53.76      A16S
ATOM   7001  O2* C   A 335     136.426  41.692 -15.582  1.00 53.76      A16S
ATOM   7002  C3* C   A 335     135.805  40.737 -13.442  1.00 53.76      A16S
ATOM   7003  O3* C   A 335     136.677  39.679 -13.796  1.00 53.76      A16S
ATOM   7004  P   C   A 336     138.114  39.576 -13.099  1.00 46.85      A16S
ATOM   7005  O1P C   A 336     138.738  38.313 -13.552  1.00 50.17      A16S
ATOM   7006  O2P C   A 336     137.962  39.830 -11.644  1.00 50.17      A16S
ATOM   7007  O5* C   A 336     138.915  40.787 -13.756  1.00 46.85      A16S
ATOM   7008  C5* C   A 336     139.213  40.791 -15.168  1.00 46.85      A16S
ATOM   7009  C4* C   A 336     140.002  42.026 -15.549  1.00 46.85      A16S
ATOM   7010  O4* C   A 336     139.158  43.199 -15.480  1.00 46.85      A16S
ATOM   7011  C1* C   A 336     139.916  44.308 -15.034  1.00 46.85      A16S
ATOM   7012  N1  C   A 336     139.350  44.787 -13.758  1.00 50.17      A16S
ATOM   7013  C6  C   A 336     138.578  43.972 -12.977  1.00 50.17      A16S
ATOM   7014  C2  C   A 336     139.619  46.097 -13.353  1.00 50.17      A16S
ATOM   7015  O2  C   A 336     140.308  46.822 -14.084  1.00 50.17      A16S
ATOM   7016  N3  C   A 336     139.118  46.542 -12.178  1.00 50.17      A16S
ATOM   7017  C4  C   A 336     138.370  45.736 -11.425  1.00 50.17      A16S
ATOM   7018  N4  C   A 336     137.900  46.216 -10.276  1.00 50.17      A16S
ATOM   7019  C5  C   A 336     138.073  44.402 -11.817  1.00 50.17      A16S
ATOM   7020  C2* C   A 336     141.363  43.849 -14.887  1.00 46.85      A16S
ATOM   7021  O2* C   A 336     142.064  44.152 -16.077  1.00 46.85      A16S
ATOM   7022  C3* C   A 336     141.187  42.356 -14.667  1.00 46.85      A16S
ATOM   7023  O3* C   A 336     142.341  41.636 -15.036  1.00 46.85      A16S
ATOM   7024  P   C   A 337     143.456  41.327 -13.927  1.00 53.39      A16S
ATOM   7025  O1P C   A 337     144.520  40.521 -14.577  1.00 74.49      A16S
ATOM   7026  O2P C   A 337     142.768  40.792 -12.716  1.00 74.49      A16S
ATOM   7027  O5* C   A 337     144.037  42.765 -13.577  1.00 53.39      A16S
ATOM   7028  C5* C   A 337     144.760  43.513 -14.555  1.00 53.39      A16S
ATOM   7029  C4* C   A 337     145.267  44.800 -13.958  1.00 53.39      A16S
ATOM   7030  O4* C   A 337     144.156  45.692 -13.696  1.00 53.39      A16S
ATOM   7031  C1* C   A 337     144.430  46.468 -12.548  1.00 53.39      A16S
ATOM   7032  N1  C   A 337     143.395  46.203 -11.539  1.00 74.49      A16S
ATOM   7033  C6  C   A 337     142.472  45.212 -11.708  1.00 74.49      A16S
ATOM   7034  C2  C   A 337     143.379  46.985 -10.389  1.00 74.49      A16S
ATOM   7035  O2  C   A 337     144.216  47.886 -10.272  1.00 74.49      A16S
ATOM   7036  N3  C   A 337     142.459  46.747  -9.435  1.00 74.49      A16S
ATOM   7037  C4  C   A 337     141.569  45.774  -9.602  1.00 74.49      A16S
ATOM   7038  N4  C   A 337     140.682  45.573  -8.629  1.00 74.49      A16S
ATOM   7039  C5  C   A 337     141.550  44.965 -10.773  1.00 74.49      A16S
ATOM   7040  C2* C   A 337     145.821  46.086 -12.052  1.00 53.39      A16S
ATOM   7041  O2* C   A 337     146.753  46.994 -12.597  1.00 53.39      A16S
ATOM   7042  C3* C   A 337     145.976  44.686 -12.622  1.00 53.39      A16S
ATOM   7043  O3* C   A 337     147.332  44.295 -12.763  1.00 53.39      A16S
ATOM   7044  P   A   A 338     148.064  43.531 -11.550  1.00 59.06      A16S
ATOM   7045  O1P A   A 338     149.371  43.089 -12.088  1.00 47.90      A16S
ATOM   7046  O2P A   A 338     147.157  42.535 -10.901  1.00 47.90      A16S
ATOM   7047  O5* A   A 338     148.337  44.691 -10.503  1.00 59.06      A16S
ATOM   7048  C5* A   A 338     149.258  45.736 -10.813  1.00 59.06      A16S
ATOM   7049  C4* A   A 338     149.349  46.688  -9.661  1.00 59.06      A16S
ATOM   7050  O4* A   A 338     148.094  47.393  -9.536  1.00 59.06      A16S
ATOM   7051  C1* A   A 338     147.801  47.601  -8.169  1.00 59.06      A16S
ATOM   7052  N9  A   A 338     146.546  46.922  -7.866  1.00 47.90      A16S
ATOM   7053  C4  A   A 338     145.774  47.126  -6.755  1.00 47.90      A16S
ATOM   7054  N3  A   A 338     146.029  47.953  -5.737  1.00 47.90      A16S
ATOM   7055  C2  A   A 338     145.045  47.912  -4.852  1.00 47.90      A16S
ATOM   7056  N1  A   A 338     143.925  47.191  -4.867  1.00 47.90      A16S
ATOM   7057  C6  A   A 338     143.705  46.365  -5.904  1.00 47.90      A16S
ATOM   7058  N6  A   A 338     142.586  45.646  -5.918  1.00 47.90      A16S
ATOM   7059  C5  A   A 338     144.670  46.316  -6.908  1.00 47.90      A16S
ATOM   7060  N7  A   A 338     144.752  45.593  -8.083  1.00 47.90      A16S
ATOM   7061  C8  A   A 338     145.884  45.985  -8.612  1.00 47.90      A16S
ATOM   7062  C2* A   A 338     148.973  47.060  -7.356  1.00 59.06      A16S
ATOM   7063  O2* A   A 338     149.880  48.114  -7.106  1.00 59.06      A16S
ATOM   7064  C3* A   A 338     149.548  46.030  -8.311  1.00 59.06      A16S
ATOM   7065  O3* A   A 338     150.905  45.739  -8.047  1.00 59.06      A16S
ATOM   7066  P   C   A 339     151.270  44.430  -7.191  1.00 71.52      A16S
ATOM   7067  O1P C   A 339     152.746  44.306  -7.240  1.00 50.83      A16S
ATOM   7068  O2P C   A 339     150.419  43.289  -7.647  1.00 50.83      A16S
ATOM   7069  O5* C   A 339     150.846  44.809  -5.702  1.00 71.52      A16S
ATOM   7070  C5* C   A 339     151.452  45.931  -5.040  1.00 71.52      A16S
ATOM   7071  C4* C   A 339     150.646  46.339  -3.832  1.00 71.52      A16S
ATOM   7072  O4* C   A 339     149.309  46.727  -4.238  1.00 71.52      A16S
ATOM   7073  C1* C   A 339     148.390  46.429  -3.203  1.00 71.52      A16S
ATOM   7074  N1  C   A 339     147.357  45.529  -3.739  1.00 50.83      A16S
ATOM   7075  C6  C   A 339     147.602  44.786  -4.856  1.00 50.83      A16S
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ATOM   7076  C2  C   A 339     146.109  45.435  -3.085  1.00 50.83      A16S
ATOM   7077  O2  C   A 339     145.894  46.121  -2.082  1.00 50.83      A16S
ATOM   7078  N3  C   A 339     145.172  44.597  -3.573  1.00 50.83      A16S
ATOM   7079  C4  C   A 339     145.430  43.877  -4.666  1.00 50.83      A16S
ATOM   7080  N4  C   A 339     144.481  43.066  -5.116  1.00 50.83      A16S
ATOM   7081  C5  C   A 339     146.677  43.957  -5.348  1.00 50.83      A16S
ATOM   7082  C2* C   A 339     149.180  45.808  -2.050  1.00 71.52      A16S
ATOM   7083  O2* C   A 339     149.479  46.816  -1.102  1.00 71.52      A16S
ATOM   7084  C3* C   A 339     150.419  45.284  -2.768  1.00 71.52      A16S
ATOM   7085  O3* C   A 339     151.536  45.147  -1.897  1.00 71.52      A16S
ATOM   7086  P   U   A 340     151.821  43.727  -1.191  1.00 74.65      A16S
ATOM   7087  O1P U   A 340     153.139  43.855  -0.522  1.00 72.13      A16S
ATOM   7088  O2P U   A 340     151.596  42.621  -2.153  1.00 72.13      A16S
ATOM   7089  O5* U   A 340     150.703  43.623  -0.069  1.00 74.65      A16S
ATOM   7090  C5* U   A 340     150.804  44.427   1.104  1.00 74.65      A16S
ATOM   7091  C4* U   A 340     149.635  44.184   2.004  1.00 74.65      A16S
ATOM   7092  O4* U   A 340     148.423  44.594   1.336  1.00 74.65      A16S
ATOM   7093  C1* U   A 340     147.364  43.748   1.725  1.00 74.65      A16S
ATOM   7094  N1  U   A 340     146.808  43.113   0.522  1.00 72.13      A16S
ATOM   7095  C6  U   A 340     147.511  43.060  -0.661  1.00 72.13      A16S
ATOM   7096  C2  U   A 340     145.539  42.574   0.618  1.00 72.13      A16S
ATOM   7097  O2  U   A 340     144.895  42.576   1.655  1.00 72.13      A16S
ATOM   7098  N3  U   A 340     145.052  42.026  -0.538  1.00 72.13      A16S
ATOM   7099  C4  U   A 340     145.690  41.951  -1.749  1.00 72.13      A16S
ATOM   7100  O4  U   A 340     145.111  41.424  -2.697  1.00 72.13      A16S
ATOM   7101  C5  U   A 340     147.010  42.513  -1.769  1.00 72.13      A16S
ATOM   7102  C2* U   A 340     147.915  42.748   2.743  1.00 74.65      A16S
ATOM   7103  O2* U   A 340     147.693  43.249   4.048  1.00 74.65      A16S
ATOM   7104  C3* U   A 340     149.392  42.740   2.388  1.00 74.65      A16S
ATOM   7105  O3* U   A 340     150.209  42.365   3.485  1.00 74.65      A16S
ATOM   7106  P   C   A 341     150.802  40.871   3.563  1.00 93.31      A16S
ATOM   7107  O1P C   A 341     151.977  40.924   4.479  1.00 60.16      A16S
ATOM   7108  O2P C   A 341     150.976  40.335   2.182  1.00 60.16      A16S
ATOM   7109  O5* C   A 341     149.629  40.054   4.262  1.00 93.31      A16S
ATOM   7110  C5* C   A 341     149.099  40.468   5.527  1.00 93.31      A16S
ATOM   7111  C4* C   A 341     147.708  39.921   5.710  1.00 93.31      A16S
ATOM   7112  O4* C   A 341     146.824  40.494   4.711  1.00 93.31      A16S
ATOM   7113  C1* C   A 341     145.830  39.545   4.346  1.00 93.31      A16S
ATOM   7114  N1  C   A 341     145.938  39.257   2.901  1.00 60.16      A16S
ATOM   7115  C6  C   A 341     147.068  39.576   2.201  1.00 60.16      A16S
ATOM   7116  C2  C   A 341     144.851  38.640   2.249  1.00 60.16      A16S
ATOM   7117  O2  C   A 341     143.836  38.349   2.908  1.00 60.16      A16S
ATOM   7118  N3  C   A 341     144.940  38.376   0.924  1.00 60.16      A16S
ATOM   7119  C4  C   A 341     146.047  38.702   0.253  1.00 60.16      A16S
ATOM   7120  N4  C   A 341     146.088  38.441  -1.059  1.00 60.16      A16S
ATOM   7121  C5  C   A 341     147.165  39.317   0.891  1.00 60.16      A16S
ATOM   7122  C2* C   A 341     146.069  38.290   5.179  1.00 93.31      A16S
ATOM   7123  O2* C   A 341     145.244  38.317   6.329  1.00 93.31      A16S
ATOM   7124  C3* C   A 341     147.547  38.426   5.508  1.00 93.31      A16S
ATOM   7125  O3* C   A 341     147.901  37.659   6.636  1.00 93.31      A16S
ATOM   7126  P   C   A 342     148.282  36.116   6.434  1.00 86.88      A16S
ATOM   7127  O1P C   A 342     148.705  35.627   7.764  1.00 78.30      A16S
ATOM   7128  O2P C   A 342     149.197  35.981   5.270  1.00 78.30      A16S
ATOM   7129  O5* C   A 342     146.906  35.424   6.031  1.00 86.88      A16S
ATOM   7130  C5* C   A 342     145.817  35.355   6.967  1.00 86.88      A16S
ATOM   7131  C4* C   A 342     144.731  34.451   6.439  1.00 86.88      A16S
ATOM   7132  O4* C   A 342     144.108  35.057   5.276  1.00 86.88      A16S
ATOM   7133  C1* C   A 342     143.721  34.046   4.361  1.00 86.88      A16S
ATOM   7134  N1  C   A 342     144.388  34.287   3.067  1.00 78.30      A16S
ATOM   7135  C6  C   A 342     145.594  34.928   3.002  1.00 78.30      A16S
ATOM   7136  C2  C   A 342     143.763  33.843   1.893  1.00 78.30      A16S
ATOM   7137  O2  C   A 342     142.670  33.265   1.974  1.00 78.30      A16S
ATOM   7138  N3  C   A 342     144.364  34.055   0.703  1.00 78.30      A16S
ATOM   7139  C4  C   A 342     145.537  34.683   0.653  1.00 78.30      A16S
ATOM   7140  N4  C   A 342     146.089  34.873  -0.543  1.00 78.30      A16S
ATOM   7141  C5  C   A 342     146.197  35.146   1.827  1.00 78.30      A16S
ATOM   7142  C2* C   A 342     144.090  32.693   4.972  1.00 86.88      A16S
ATOM   7143  O2* C   A 342     142.952  32.131   5.598  1.00 86.88      A16S
ATOM   7144  C3* C   A 342     145.189  33.085   5.955  1.00 86.88      A16S
ATOM   7145  O3* C   A 342     145.341  32.146   7.020  1.00 86.88      A16S
ATOM   7146  P   U   A 343     146.441  30.976   6.895  1.00102.03      A16S
ATOM   7147  O1P U   A 343     147.776  31.596   6.665  1.00110.70      A16S
ATOM   7148  O2P U   A 343     146.242  30.075   8.058  1.00110.70      A16S
ATOM   7149  O5* U   A 343     146.031  30.202   5.559  1.00102.03      A16S
ATOM   7150  C5* U   A 343     144.737  29.582   5.438  1.00102.03      A16S
ATOM   7151  C4* U   A 343     144.520  29.043   4.041  1.00102.03      A16S
ATOM   7152  O4* U   A 343     144.361  30.123   3.083  1.00102.03      A16S
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ATOM   7153  C1* U   A 343     144.796  29.684   1.802  1.00102.03      A16S
ATOM   7154  N1  U   A 343     145.844  30.586   1.294  1.00110.70      A16S
ATOM   7155  C6  U   A 343     146.662  31.296   2.144  1.00110.70      A16S
ATOM   7156  C2  U   A 343     146.003  30.676  -0.084  1.00110.70      A16S
ATOM   7157  O2  U   A 343     145.286  30.088  -0.880  1.00110.70      A16S
ATOM   7158  N3  U   A 343     147.036  31.480  -0.497  1.00110.70      A16S
ATOM   7159  C4  U   A 343     147.906  32.195   0.303  1.00110.70      A16S
ATOM   7160  O4  U   A 343     148.831  32.825  -0.218  1.00110.70      A16S
ATOM   7161  C5  U   A 343     147.659  32.074   1.708  1.00110.70      A16S
ATOM   7162  C2* U   A 343     145.328  28.258   1.954  1.00102.03      A16S
ATOM   7163  O2* U   A 343     144.340  27.330   1.560  1.00102.03      A16S
ATOM   7164  C3* U   A 343     145.626  28.189   3.447  1.00102.03      A16S
ATOM   7165  O3* U   A 343     145.599  26.849   3.907  1.00102.03      A16S
ATOM   7166  P   A   A 344     146.930  25.950   3.811  1.00 98.66      A16S
ATOM   7167  O1P A   A 344     147.860  26.569   2.835  1.00100.53      A16S
ATOM   7168  O2P A   A 344     147.391  25.704   5.209  1.00100.53      A16S
ATOM   7169  O5* A   A 344     146.391  24.587   3.183  1.00 98.66      A16S
ATOM   7170  C5* A   A 344     147.152  23.829   2.220  1.00 98.66      A16S
ATOM   7171  C4* A   A 344     146.245  22.825   1.558  1.00 98.66      A16S
ATOM   7172  O4* A   A 344     145.583  22.098   2.621  1.00 98.66      A16S
ATOM   7173  C1* A   A 344     144.187  22.069   2.404  1.00 98.66      A16S
ATOM   7174  N9  A   A 344     143.573  22.764   3.534  1.00100.53      A16S
ATOM   7175  C4  A   A 344     142.873  22.168   4.554  1.00100.53      A16S
ATOM   7176  N3  A   A 344     142.553  20.868   4.671  1.00100.53      A16S
ATOM   7177  C2  A   A 344     141.906  20.647   5.814  1.00100.53      A16S
ATOM   7178  N1  A   A 344     141.571  21.511   6.784  1.00100.53      A16S
ATOM   7179  C6  A   A 344     141.909  22.811   6.636  1.00100.53      A16S
ATOM   7180  N6  A   A 344     141.585  23.668   7.607  1.00100.53      A16S
ATOM   7181  C5  A   A 344     142.592  23.178   5.458  1.00100.53      A16S
ATOM   7182  N7  A   A 344     143.063  24.397   4.992  1.00100.53      A16S
ATOM   7183  C8  A   A 344     143.623  24.100   3.844  1.00100.53      A16S
ATOM   7184  C2* A   A 344     143.899  22.619   1.005  1.00 98.66      A16S
ATOM   7185  O2* A   A 344     143.691  21.554   0.105  1.00 98.66      A16S
ATOM   7186  C3* A   A 344     145.135  23.478   0.748  1.00 98.66      A16S
ATOM   7187  O3* A   A 344     145.531  23.700  -0.619  1.00 98.66      A16S
ATOM   7188  P   C   A 345     146.032  22.472  -1.546  1.00122.22      A16S
ATOM   7189  O1P C   A 345     147.238  21.892  -0.903  1.00120.93      A16S
ATOM   7190  O2P C   A 345     144.896  21.589  -1.911  1.00120.93      A16S
ATOM   7191  O5* C   A 345     146.518  23.182  -2.888  1.00122.22      A16S
ATOM   7192  C5* C   A 345     145.572  23.602  -3.890  1.00122.22      A16S
ATOM   7193  C4* C   A 345     146.059  24.857  -4.576  1.00122.22      A16S
ATOM   7194  O4* C   A 345     146.163  25.920  -3.592  1.00122.22      A16S
ATOM   7195  C1* C   A 345     147.456  26.485  -3.644  1.00122.22      A16S
ATOM   7196  N1  C   A 345     147.846  26.947  -2.298  1.00120.93      A16S
ATOM   7197  C6  C   A 345     147.791  26.112  -1.217  1.00120.93      A16S
ATOM   7198  C2  C   A 345     148.285  28.275  -2.145  1.00120.93      A16S
ATOM   7199  O2  C   A 345     148.320  29.022  -3.140  1.00120.93      A16S
ATOM   7200  N3  C   A 345     148.658  28.710  -0.921  1.00120.93      A16S
ATOM   7201  C4  C   A 345     148.610  27.884   0.124  1.00120.93      A16S
ATOM   7202  N4  C   A 345     149.003  28.356   1.308  1.00120.93      A16S
ATOM   7203  C5  C   A 345     148.160  26.535   0.000  1.00120.93      A16S
ATOM   7204  C2* C   A 345     148.362  25.416  -4.247  1.00122.22      A16S
ATOM   7205  O2* C   A 345     149.491  26.017  -4.852  1.00122.22      A16S
ATOM   7206  C3* C   A 345     147.425  24.760  -5.256  1.00122.22      A16S
ATOM   7207  O3* C   A 345     147.431  25.558  -6.436  1.00122.22      A16S
ATOM   7208  P   G   A 346     147.137  24.883  -7.862  1.00106.83      A16S
ATOM   7209  O1P G   A 346     147.530  25.864  -8.913  1.00104.26      A16S
ATOM   7210  O2P G   A 346     147.745  23.524  -7.866  1.00104.26      A16S
ATOM   7211  O5* G   A 346     145.545  24.755  -7.882  1.00106.83      A16S
ATOM   7212  C5* G   A 346     144.706  25.926  -7.728  1.00106.83      A16S
ATOM   7213  C4* G   A 346     143.252  25.529  -7.607  1.00106.83      A16S
ATOM   7214  O4* G   A 346     143.074  24.706  -6.431  1.00106.83      A16S
ATOM   7215  C1* G   A 346     141.762  24.879  -5.936  1.00106.83      A16S
ATOM   7216  N9  G   A 346     141.817  25.024  -4.486  1.00104.26      A16S
ATOM   7217  C4  G   A 346     142.504  25.971  -3.764  1.00104.26      A16S
ATOM   7218  N3  G   A 346     143.251  26.971  -4.272  1.00104.26      A16S
ATOM   7219  C2  G   A 346     143.788  27.716  -3.320  1.00104.26      A16S
ATOM   7220  N2  G   A 346     144.556  28.769  -3.642  1.00104.26      A16S
ATOM   7221  N1  G   A 346     143.611  27.488  -1.980  1.00104.26      A16S
ATOM   7222  C6  G   A 346     142.852  26.460  -1.438  1.00104.26      A16S
ATOM   7223  O6  G   A 346     142.769  26.335  -0.214  1.00104.26      A16S
ATOM   7224  C5  G   A 346     142.263  25.666  -2.441  1.00104.26      A16S
ATOM   7225  N7  G   A 346     141.432  24.561  -2.333  1.00104.26      A16S
ATOM   7226  C8  G   A 346     141.192  24.216  -3.567  1.00104.26      A16S
ATOM   7227  C2* G   A 346     141.092  26.019  -6.706  1.00106.83      A16S
ATOM   7228  O2* G   A 346     140.157  25.496  -7.625  1.00106.83      A16S
ATOM   7229  C3* G   A 346     142.277  26.678  -7.402  1.00106.83      A16S
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ATOM   7230  O3* G   A 346     141.867  27.216  -8.652  1.00106.83      A16S
ATOM   7231  P   G   A 347     141.910  28.803  -8.891  1.00111.06      A16S
ATOM   7232  O1P G   A 347     143.252  29.270  -8.452  1.00 79.71      A16S
ATOM   7233  O2P G   A 347     141.455  29.068 -10.280  1.00 79.71      A16S
ATOM   7234  O5* G   A 347     140.829  29.400  -7.883  1.00111.06      A16S
ATOM   7235  C5* G   A 347     139.557  28.761  -7.709  1.00111.06      A16S
ATOM   7236  C4* G   A 347     139.028  29.009  -6.315  1.00111.06      A16S
ATOM   7237  O4* G   A 347     140.036  28.639  -5.333  1.00111.06      A16S
ATOM   7238  C1* G   A 347     139.944  29.490  -4.202  1.00111.06      A16S
ATOM   7239  N9  G   A 347     141.169  30.277  -4.109  1.00 79.71      A16S
ATOM   7240  C4  G   A 347     141.673  30.886  -2.978  1.00 79.71      A16S
ATOM   7241  N3  G   A 347     141.142  30.825  -1.739  1.00 79.71      A16S
ATOM   7242  C2  G   A 347     141.839  31.531  -0.868  1.00 79.71      A16S
ATOM   7243  N2  G   A 347     141.451  31.582   0.409  1.00 79.71      A16S
ATOM   7244  N1  G   A 347     142.968  32.241  -1.185  1.00 79.71      A16S
ATOM   7245  C6  G   A 347     143.529  32.324  -2.454  1.00 79.71      A16S
ATOM   7246  O6  G   A 347     144.541  33.008  -2.637  1.00 79.71      A16S
ATOM   7247  C5  G   A 347     142.796  31.567  -3.398  1.00 79.71      A16S
ATOM   7248  N7  G   A 347     143.010  31.375  -4.755  1.00 79.71      A16S
ATOM   7249  C8  G   A 347     142.029  30.599  -5.133  1.00 79.71      A16S
ATOM   7250  C2* G   A 347     138.764  30.425  -4.438  1.00111.06      A16S
ATOM   7251  O2* G   A 347     137.601  29.885  -3.844  1.00111.06      A16S
ATOM   7252  C3* G   A 347     138.694  30.445  -5.959  1.00111.06      A16S
ATOM   7253  O3* G   A 347     137.417  30.851  -6.427  1.00111.06      A16S
ATOM   7254  P   G   A 348     136.923  32.357  -6.150  1.00 88.39      A16S
ATOM   7255  O1P G   A 348     138.058  33.286  -6.465  1.00 66.05      A16S
ATOM   7256  O2P G   A 348     135.596  32.570  -6.791  1.00 66.05      A16S
ATOM   7257  O5* G   A 348     136.701  32.366  -4.577  1.00 88.39      A16S
ATOM   7258  C5* G   A 348     136.613  33.587  -3.864  1.00 88.39      A16S
ATOM   7259  C4* G   A 348     136.865  33.340  -2.412  1.00 88.39      A16S
ATOM   7260  O4* G   A 348     138.218  32.854  -2.240  1.00 88.39      A16S
ATOM   7261  C1* G   A 348     138.766  33.386  -1.045  1.00 88.39      A16S
ATOM   7262  N9  G   A 348     139.908  34.227  -1.386  1.00 66.05      A16S
ATOM   7263  C4  G   A 348     140.604  35.004  -0.497  1.00 66.05      A16S
ATOM   7264  N3  G   A 348     140.349  35.105   0.828  1.00 66.05      A16S
ATOM   7265  C2  G   A 348     141.183  35.932   1.433  1.00 66.05      A16S
ATOM   7266  N2  G   A 348     141.064  36.139   2.760  1.00 66.05      A16S
ATOM   7267  N1  G   A 348     142.191  36.609   0.783  1.00 66.05      A16S
ATOM   7268  C6  G   A 348     142.471  36.517  -0.580  1.00 66.05      A16S
ATOM   7269  O6  G   A 348     143.404  37.163  -1.060  1.00 66.05      A16S
ATOM   7270  C5  G   A 348     141.577  35.633  -1.240  1.00 66.05      A16S
ATOM   7271  N7  G   A 348     141.495  35.259  -2.577  1.00 66.05      A16S
ATOM   7272  C8  G   A 348     140.493  34.422  -2.617  1.00 66.05      A16S
ATOM   7273  C2* G   A 348     137.686  34.233  -0.379  1.00 88.39      A16S
ATOM   7274  O2* G   A 348     137.012  33.494   0.611  1.00 88.39      A16S
ATOM   7275  C3* G   A 348     136.824  34.593  -1.573  1.00 88.39      A16S
ATOM   7276  O3* G   A 348     135.511  34.994  -1.263  1.00 88.39      A16S
ATOM   7277  P   A   A 349     135.121  36.539  -1.448  1.00 99.13      A16S
ATOM   7278  O1P A   A 349     133.660  36.681  -1.200  1.00 49.51      A16S
ATOM   7279  O2P A   A 349     135.706  37.003  -2.743  1.00 49.51      A16S
ATOM   7280  O5* A   A 349     135.916  37.246  -0.264  1.00 99.13      A16S
ATOM   7281  C5* A   A 349     135.679  36.860   1.096  1.00 99.13      A16S
ATOM   7282  C4* A   A 349     136.420  37.773   2.028  1.00 99.13      A16S
ATOM   7283  O4* A   A 349     137.835  37.472   1.997  1.00 99.13      A16S
ATOM   7284  C1* A   A 349     138.581  38.662   2.193  1.00 99.13      A16S
ATOM   7285  N9  A   A 349     139.423  38.884   1.021  1.00 49.51      A16S
ATOM   7286  C4  A   A 349     140.571  39.628   0.999  1.00 49.51      A16S
ATOM   7287  N3  A   A 349     141.143  40.257   2.035  1.00 49.51      A16S
ATOM   7288  C2  A   A 349     142.239  40.904   1.634  1.00 49.51      A16S
ATOM   7289  N1  A   A 349     142.784  40.979   0.406  1.00 49.51      A16S
ATOM   7290  C6  A   A 349     142.181  40.328  -0.605  1.00 49.51      A16S
ATOM   7291  N6  A   A 349     142.726  40.402  -1.814  1.00 49.51      A16S
ATOM   7292  C5  A   A 349     141.011  39.611  -0.312  1.00 49.51      A16S
ATOM   7293  N7  A   A 349     140.165  38.853  -1.100  1.00 49.51      A16S
ATOM   7294  C8  A   A 349     139.243  38.441  -0.264  1.00 49.51      A16S
ATOM   7295  C2* A   A 349     137.585  39.807   2.364  1.00 99.13      A16S
ATOM   7296  O2* A   A 349     137.366  40.081   3.734  1.00 99.13      A16S
ATOM   7297  C3* A   A 349     136.357  39.241   1.671  1.00 99.13      A16S
ATOM   7298  O3* A   A 349     135.162  39.862   2.084  1.00 99.13      A16S
ATOM   7299  P   G   A 350     134.808  41.321   1.517  1.00 64.53      A16S
ATOM   7300  O1P G   A 350     135.394  41.446   0.148  1.00 58.43      A16S
ATOM   7301  O2P G   A 350     133.352  41.544   1.708  1.00 58.43      A16S
ATOM   7302  O5* G   A 350     135.622  42.270   2.498  1.00 64.53      A16S
ATOM   7303  C5* G   A 350     135.924  43.602   2.114  1.00 64.53      A16S
ATOM   7304  C4* G   A 350     137.304  43.975   2.568  1.00 64.53      A16S
ATOM   7305  O4* G   A 350     138.280  43.054   2.026  1.00 64.53      A16S
ATOM   7306  C1* G   A 350     139.475  43.754   1.724  1.00 64.53      A16S
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ATOM   7307  N9  G   A 350     139.840  43.502   0.330  1.00 58.43      A16S
ATOM   7308  C4  G   A 350     141.023  43.849  -0.271  1.00 58.43      A16S
ATOM   7309  N3  G   A 350     142.051  44.485   0.321  1.00 58.43      A16S
ATOM   7310  C2  G   A 350     143.055  44.682  -0.516  1.00 58.43      A16S
ATOM   7311  N2  G   A 350     144.166  45.308  -0.096  1.00 58.43      A16S
ATOM   7312  N1  G   A 350     143.048  44.284  -1.829  1.00 58.43      A16S
ATOM   7313  C6  G   A 350     141.996  43.628  -2.458  1.00 58.43      A16S
ATOM   7314  O6  G   A 350     142.086  43.320  -3.650  1.00 58.43      A16S
ATOM   7315  C5  G   A 350     140.916  43.411  -1.573  1.00 58.43      A16S
ATOM   7316  N7  G   A 350     139.691  42.805  -1.791  1.00 58.43      A16S
ATOM   7317  C8  G   A 350     139.086  42.878  -0.638  1.00 58.43      A16S
ATOM   7318  C2* G   A 350     139.257  45.232   2.061  1.00 64.53      A16S
ATOM   7319  O2* G   A 350     139.843  45.513   3.315  1.00 64.53      A16S
ATOM   7320  C3* G   A 350     137.735  45.333   2.063  1.00 64.53      A16S
ATOM   7321  O3* G   A 350     137.203  46.343   2.911  1.00 64.53      A16S
ATOM   7322  P   G   A 351     135.838  47.095   2.492  1.00 70.90      A16S
ATOM   7323  O1P G   A 351     134.962  47.096   3.688  1.00 60.95      A16S
ATOM   7324  O2P G   A 351     135.315  46.546   1.211  1.00 60.95      A16S
ATOM   7325  O5* G   A 351     136.304  48.594   2.220  1.00 70.90      A16S
ATOM   7326  C5* G   A 351     137.052  49.331   3.209  1.00 70.90      A16S
ATOM   7327  C4* G   A 351     138.159  50.093   2.541  1.00 70.90      A16S
ATOM   7328  O4* G   A 351     138.998  49.129   1.892  1.00 70.90      A16S
ATOM   7329  C1* G   A 351     139.519  49.689   0.717  1.00 70.90      A16S
ATOM   7330  N9  G   A 351     139.529  48.671  -0.325  1.00 60.95      A16S
ATOM   7331  C4  G   A 351     140.572  48.408  -1.169  1.00 60.95      A16S
ATOM   7332  N3  G   A 351     141.749  49.062  -1.191  1.00 60.95      A16S
ATOM   7333  C2  G   A 351     142.561  48.573  -2.103  1.00 60.95      A16S
ATOM   7334  N2  G   A 351     143.782  49.104  -2.256  1.00 60.95      A16S
ATOM   7335  N1  G   A 351     142.238  47.526  -2.934  1.00 60.95      A16S
ATOM   7336  C6  G   A 351     141.025  46.849  -2.934  1.00 60.95      A16S
ATOM   7337  O6  G   A 351     140.823  45.932  -3.743  1.00 60.95      A16S
ATOM   7338  C5  G   A 351     140.153  47.356  -1.951  1.00 60.95      A16S
ATOM   7339  N7  G   A 351     138.869  46.968  -1.607  1.00 60.95      A16S
ATOM   7340  C8  G   A 351     138.536  47.779  -0.643  1.00 60.95      A16S
ATOM   7341  C2* G   A 351     138.812  51.014   0.420  1.00 70.90      A16S
ATOM   7342  O2* G   A 351     139.705  52.093   0.616  1.00 70.90      A16S
ATOM   7343  C3* G   A 351     137.683  51.038   1.444  1.00 70.90      A16S
ATOM   7344  O3* G   A 351     137.579  52.416   1.874  1.00 70.90      A16S
ATOM   7345  P   C   A 352     138.017  52.862   3.370  1.00 40.24      A16S
ATOM   7346  O1P C   A 352     136.835  52.662   4.260  1.00 48.52      A16S
ATOM   7347  O2P C   A 352     139.355  52.313   3.764  1.00 48.52      A16S
ATOM   7348  O5* C   A 352     138.217  54.428   3.267  1.00 40.24      A16S
ATOM   7349  C5* C   A 352     139.422  55.018   3.756  1.00 40.24      A16S
ATOM   7350  C4* C   A 352     139.111  56.092   4.769  1.00 40.24      A16S
ATOM   7351  O4* C   A 352     138.508  55.535   5.970  1.00 40.24      A16S
ATOM   7352  C1* C   A 352     139.078  56.152   7.114  1.00 40.24      A16S
ATOM   7353  N1  C   A 352     140.012  55.194   7.731  1.00 48.52      A16S
ATOM   7354  C6  C   A 352     140.451  54.103   7.035  1.00 48.52      A16S
ATOM   7355  C2  C   A 352     140.477  55.435   9.025  1.00 48.52      A16S
ATOM   7356  O2  C   A 352     140.038  56.414   9.656  1.00 48.52      A16S
ATOM   7357  N3  C   A 352     141.393  54.602   9.556  1.00 48.52      A16S
ATOM   7358  C4  C   A 352     141.839  53.562   8.851  1.00 48.52      A16S
ATOM   7359  N4  C   A 352     142.772  52.780   9.405  1.00 48.52      A16S
ATOM   7360  C5  C   A 352     141.358  53.276   7.548  1.00 48.52      A16S
ATOM   7361  C2* C   A 352     139.900  57.335   6.609  1.00 40.24      A16S
ATOM   7362  O2* C   A 352     139.082  58.467   6.485  1.00 40.24      A16S
ATOM   7363  C3* C   A 352     140.342  56.823   5.254  1.00 40.24      A16S
ATOM   7364  O3* C   A 352     140.660  57.841   4.343  1.00 40.24      A16S
ATOM   7365  P   A   A 353     141.980  58.721   4.553  1.00 38.34      A16S
ATOM   7366  O1P A   A 353     142.542  58.553   5.919  1.00 43.98      A16S
ATOM   7367  O2P A   A 353     142.846  58.472   3.388  1.00 43.98      A16S
ATOM   7368  O5* A   A 353     141.371  60.189   4.499  1.00 38.34      A16S
ATOM   7369  C5* A   A 353     141.073  60.799   3.263  1.00 38.34      A16S
ATOM   7370  C4* A   A 353     139.672  61.349   3.249  1.00 38.34      A16S
ATOM   7371  O4* A   A 353     139.707  62.164   2.056  1.00 38.34      A16S
ATOM   7372  C1* A   A 353     138.788  61.680   1.109  1.00 38.34      A16S
ATOM   7373  N9  A   A 353     139.517  60.884   0.118  1.00 43.98      A16S
ATOM   7374  C4  A   A 353     139.044  60.574  -1.128  1.00 43.98      A16S
ATOM   7375  N3  A   A 353     137.884  60.968  -1.666  1.00 43.98      A16S
ATOM   7376  C2  A   A 353     137.731  60.452  -2.869  1.00 43.98      A16S
ATOM   7377  N1  A   A 353     138.539  59.639  -3.550  1.00 43.98      A16S
ATOM   7378  C6  A   A 353     139.702  59.258  -2.981  1.00 43.98      A16S
ATOM   7379  N6  A   A 353     140.504  58.431  -3.663  1.00 43.98      A16S
ATOM   7380  C5  A   A 353     139.989  59.754  -1.699  1.00 43.98      A16S
ATOM   7381  N7  A   A 353     141.064  59.573  -0.842  1.00 43.98      A16S
ATOM   7382  C8  A   A 353     140.741  60.273   0.216  1.00 43.98      A16S
ATOM   7383  C2* A   A 353     137.734  60.898   1.889  1.00 38.34      A16S
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ATOM   7384  O2*  A   A 353     136.733  61.805   2.291  1.00 38.34      A16S
ATOM   7385  C3*  A   A 353     138.550  60.324   3.048  1.00 38.34      A16S
ATOM   7386  O3*  A   A 353     137.726  60.198   4.212  1.00 38.34      A16S
ATOM   7387  P    G   A 354     136.428  59.209   4.207  1.00 37.94      A16S
ATOM   7388  O1P  G   A 354     136.897  57.824   4.408  1.00 45.67      A16S
ATOM   7389  O2P  G   A 354     135.535  59.497   3.061  1.00 45.67      A16S
ATOM   7390  O5*  G   A 354     135.663  59.555   5.570  1.00 37.94      A16S
ATOM   7391  C5*  G   A 354     135.038  60.832   5.779  1.00 37.94      A16S
ATOM   7392  C4*  G   A 354     134.121  60.803   6.995  1.00 37.94      A16S
ATOM   7393  O4*  G   A 354     133.398  59.549   7.047  1.00 37.94      A16S
ATOM   7394  C1*  G   A 354     133.170  59.185   8.396  1.00 37.94      A16S
ATOM   7395  N9   G   A 354     133.821  57.904   8.638  1.00 45.67      A16S
ATOM   7396  C4   G   A 354     133.909  57.228   9.838  1.00 45.67      A16S
ATOM   7397  N3   G   A 354     133.390  57.624  11.020  1.00 45.67      A16S
ATOM   7398  C2   G   A 354     133.661  56.768  11.987  1.00 45.67      A16S
ATOM   7399  N2   G   A 354     133.233  56.996  13.228  1.00 45.67      A16S
ATOM   7400  N1   G   A 354     134.375  55.622  11.810  1.00 45.67      A16S
ATOM   7401  C6   G   A 354     134.903  55.187  10.604  1.00 45.67      A16S
ATOM   7402  O6   G   A 354     135.510  54.119  10.551  1.00 45.67      A16S
ATOM   7403  C5   G   A 354     134.633  56.093   9.561  1.00 45.67      A16S
ATOM   7404  N7   G   A 354     134.986  56.046   8.218  1.00 45.67      A16S
ATOM   7405  C8   G   A 354     134.479  57.134   7.712  1.00 45.67      A16S
ATOM   7406  C2*  G   A 354     133.731  60.296   9.281  1.00 37.94      A16S
ATOM   7407  O2*  G   A 354     132.700  61.208   9.593  1.00 37.94      A16S
ATOM   7408  C3*  G   A 354     134.759  60.936   8.369  1.00 37.94      A16S
ATOM   7409  O3*  G   A 354     134.854  62.298   8.733  1.00 37.94      A16S
ATOM   7410  P    C   A 355     136.038  62.779   9.694  1.00 40.39      A16S
ATOM   7411  O1P  C   A 355     135.965  64.259   9.773  1.00 53.42      A16S
ATOM   7412  O2P  C   A 355     137.287  62.119   9.203  1.00 53.42      A16S
ATOM   7413  O5*  C   A 355     135.672  62.190  11.130  1.00 40.39      A16S
ATOM   7414  C5*  C   A 355     134.641  62.795  11.940  1.00 40.39      A16S
ATOM   7415  C4*  C   A 355     134.629  62.193  13.327  1.00 40.39      A16S
ATOM   7416  O4*  C   A 355     134.167  60.821  13.277  1.00 40.39      A16S
ATOM   7417  C1*  C   A 355     134.871  60.047  14.238  1.00 40.39      A16S
ATOM   7418  N1   C   A 355     135.630  59.003  13.525  1.00 53.42      A16S
ATOM   7419  C6   C   A 355     135.850  59.099  12.181  1.00 53.42      A16S
ATOM   7420  C2   C   A 355     136.124  57.913  14.240  1.00 53.42      A16S
ATOM   7421  O2   C   A 355     135.932  57.858  15.460  1.00 53.42      A16S
ATOM   7422  N3   C   A 355     136.806  56.949  13.582  1.00 53.42      A16S
ATOM   7423  C4   C   A 355     137.013  57.055  12.269  1.00 53.42      A16S
ATOM   7424  N4   C   A 355     137.693  56.089  11.659  1.00 53.42      A16S
ATOM   7425  C5   C   A 355     136.532  58.158  11.523  1.00 53.42      A16S
ATOM   7426  C2*  C   A 355     135.792  60.990  15.011  1.00 40.39      A16S
ATOM   7427  O2*  C   A 355     135.177  61.454  16.198  1.00 40.39      A16S
ATOM   7428  C3*  C   A 355     135.976  62.117  14.016  1.00 40.39      A16S
ATOM   7429  O3*  C   A 355     136.291  63.301  14.695  1.00 40.39      A16S
ATOM   7430  P    A   A 356     137.793  63.823  14.671  1.00 49.02      A16S
ATOM   7431  O1P  A   A 356     137.837  65.096  15.447  1.00 76.05      A16S
ATOM   7432  O2P  A   A 356     138.212  63.808  13.244  1.00 76.05      A16S
ATOM   7433  O5*  A   A 356     138.599  62.694  15.451  1.00 49.02      A16S
ATOM   7434  C5*  A   A 356     138.435  62.549  16.857  1.00 49.02      A16S
ATOM   7435  C4*  A   A 356     139.096  61.287  17.359  1.00 49.02      A16S
ATOM   7436  O4*  A   A 356     138.444  60.122  16.794  1.00 49.02      A16S
ATOM   7437  C1*  A   A 356     139.323  59.018  16.878  1.00 49.02      A16S
ATOM   7438  N9   A   A 356     139.500  58.422  15.558  1.00 76.05      A16S
ATOM   7439  C4   A   A 356     139.903  57.129  15.352  1.00 76.05      A16S
ATOM   7440  N3   A   A 356     140.136  56.195  16.287  1.00 76.05      A16S
ATOM   7441  C2   A   A 356     140.546  55.072  15.726  1.00 76.05      A16S
ATOM   7442  N1   A   A 356     140.740  54.796  14.433  1.00 76.05      A16S
ATOM   7443  C6   A   A 356     140.497  55.758  13.521  1.00 76.05      A16S
ATOM   7444  N6   A   A 356     140.704  55.485  12.235  1.00 76.05      A16S
ATOM   7445  C5   A   A 356     140.047  56.992  13.987  1.00 76.05      A16S
ATOM   7446  N7   A   A 356     139.706  58.168  13.337  1.00 76.05      A16S
ATOM   7447  C8   A   A 356     139.376  58.980  14.312  1.00 76.05      A16S
ATOM   7448  C2*  A   A 356     140.664  59.536  17.395  1.00 49.02      A16S
ATOM   7449  O2*  A   A 356     140.733  59.289  18.783  1.00 49.02      A16S
ATOM   7450  C3*  A   A 356     140.569  61.025  17.088  1.00 49.02      A16S
ATOM   7451  O3*  A   A 356     141.461  61.745  17.931  1.00 49.02      A16S
ATOM   7452  P    G   A 357     142.981  61.980  17.454  1.00 45.71      A16S
ATOM   7453  O1P  G   A 357     143.734  62.596  18.568  1.00 62.00      A16S
ATOM   7454  O2P  G   A 357     142.955  62.645  16.135  1.00 62.00      A16S
ATOM   7455  O5*  G   A 357     143.560  60.511  17.234  1.00 45.71      A16S
ATOM   7456  C5*  G   A 357     143.762  59.621  18.357  1.00 45.71      A16S
ATOM   7457  C4*  G   A 357     144.296  58.280  17.904  1.00 45.71      A16S
ATOM   7458  O4*  G   A 357     143.295  57.571  17.131  1.00 45.71      A16S
ATOM   7459  C1*  G   A 357     143.933  56.780  16.141  1.00 45.71      A16S
ATOM   7460  N9   G   A 357     143.527  57.279  14.833  1.00 62.00      A16S
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ATOM   7461  C4  G   A 357     143.797  56.717  13.605  1.00 62.00      A16S
ATOM   7462  N3  G   A 357     144.449  55.557  13.382  1.00 62.00      A16S
ATOM   7463  C2  G   A 357     144.584  55.307  12.089  1.00 62.00      A16S
ATOM   7464  N2  G   A 357     145.190  54.191  11.684  1.00 62.00      A16S
ATOM   7465  N1  G   A 357     144.132  56.132  11.097  1.00 62.00      A16S
ATOM   7466  C6  G   A 357     143.462  57.333  11.303  1.00 62.00      A16S
ATOM   7467  O6  G   A 357     143.105  58.017  10.338  1.00 62.00      A16S
ATOM   7468  C5  G   A 357     143.292  57.604  12.681  1.00 62.00      A16S
ATOM   7469  N7  G   A 357     142.680  58.677  13.311  1.00 62.00      A16S
ATOM   7470  C8  G   A 357     142.838  58.438  14.583  1.00 62.00      A16S
ATOM   7471  C2* G   A 357     145.445  56.931  16.340  1.00 45.71      A16S
ATOM   7472  O2* G   A 357     145.909  55.893  17.184  1.00 45.71      A16S
ATOM   7473  C3* G   A 357     145.537  58.288  17.025  1.00 45.71      A16S
ATOM   7474  O3* G   A 357     146.716  58.397  17.816  1.00 45.71      A16S
ATOM   7475  P   U   A 358     148.129  58.749  17.120  1.00 55.20      A16S
ATOM   7476  O1P U   A 358     149.124  58.879  18.220  1.00 61.76      A16S
ATOM   7477  O2P U   A 358     147.953  59.872  16.167  1.00 61.76      A16S
ATOM   7478  O5* U   A 358     148.472  57.456  16.254  1.00 55.20      A16S
ATOM   7479  C5* U   A 358     148.677  56.177  16.868  1.00 55.20      A16S
ATOM   7480  C4* U   A 358     149.152  55.181  15.839  1.00 55.20      A16S
ATOM   7481  O4* U   A 358     148.104  54.912  14.867  1.00 55.20      A16S
ATOM   7482  C1* U   A 358     148.685  54.689  13.591  1.00 55.20      A16S
ATOM   7483  N1  U   A 358     148.114  55.641  12.625  1.00 61.76      A16S
ATOM   7484  C6  U   A 358     147.457  56.779  13.021  1.00 61.76      A16S
ATOM   7485  C2  U   A 358     148.271  55.349  11.286  1.00 61.76      A16S
ATOM   7486  O2  U   A 358     148.839  54.352  10.893  1.00 61.76      A16S
ATOM   7487  N3  U   A 358     147.739  56.268  10.423  1.00 61.76      A16S
ATOM   7488  C4  U   A 358     147.080  57.418  10.750  1.00 61.76      A16S
ATOM   7489  O4  U   A 358     146.659  58.139   9.855  1.00 61.76      A16S
ATOM   7490  C5  U   A 358     146.950  57.655  12.152  1.00 61.76      A16S
ATOM   7491  C2* U   A 358     150.203  54.826  13.729  1.00 55.20      A16S
ATOM   7492  O2* U   A 358     150.789  53.547  13.829  1.00 55.20      A16S
ATOM   7493  C3* U   A 358     150.331  55.646  15.007  1.00 55.20      A16S
ATOM   7494  O3* U   A 358     151.548  55.404  15.679  1.00 55.20      A16S
ATOM   7495  P   U   A 359     152.785  56.392  15.441  1.00 48.88      A16S
ATOM   7496  O1P U   A 359     153.855  56.028  16.414  1.00 58.40      A16S
ATOM   7497  O2P U   A 359     152.241  57.779  15.435  1.00 58.40      A16S
ATOM   7498  O5* U   A 359     153.281  56.035  13.966  1.00 48.88      A16S
ATOM   7499  C5* U   A 359     153.635  54.685  13.610  1.00 48.88      A16S
ATOM   7500  C4* U   A 359     153.742  54.543  12.109  1.00 48.88      A16S
ATOM   7501  O4* U   A 359     152.429  54.627  11.503  1.00 48.88      A16S
ATOM   7502  C1* U   A 359     152.539  55.205  10.214  1.00 48.88      A16S
ATOM   7503  N1  U   A 359     151.686  56.400  10.158  1.00 58.40      A16S
ATOM   7504  C6  U   A 359     151.376  57.100  11.298  1.00 58.40      A16S
ATOM   7505  C2  U   A 359     151.206  56.809   8.924  1.00 58.40      A16S
ATOM   7506  O2  U   A 359     151.447  56.232   7.885  1.00 58.40      A16S
ATOM   7507  N3  U   A 359     150.426  57.930   8.957  1.00 58.40      A16S
ATOM   7508  C4  U   A 359     150.077  58.668  10.062  1.00 58.40      A16S
ATOM   7509  O4  U   A 359     149.304  59.615   9.935  1.00 58.40      A16S
ATOM   7510  C5  U   A 359     150.611  58.189  11.290  1.00 58.40      A16S
ATOM   7511  C2* U   A 359     154.014  55.530   9.968  1.00 48.88      A16S
ATOM   7512  O2* U   A 359     154.629  54.509   9.211  1.00 48.88      A16S
ATOM   7513  C3* U   A 359     154.566  55.590  11.381  1.00 48.88      A16S
ATOM   7514  O3* U   A 359     155.950  55.290  11.372  1.00 48.88      A16S
ATOM   7515  P   A   A 360     157.013  56.477  11.147  1.00 45.03      A16S
ATOM   7516  O1P A   A 360     158.363  55.888  11.307  1.00 67.85      A16S
ATOM   7517  O2P A   A 360     156.624  57.634  11.993  1.00 67.85      A16S
ATOM   7518  O5* A   A 360     156.829  56.878   9.615  1.00 45.03      A16S
ATOM   7519  C5* A   A 360     157.180  55.954   8.584  1.00 45.03      A16S
ATOM   7520  C4* A   A 360     156.799  56.492   7.225  1.00 45.03      A16S
ATOM   7521  O4* A   A 360     155.355  56.591   7.093  1.00 45.03      A16S
ATOM   7522  C1* A   A 360     155.033  57.682   6.240  1.00 45.03      A16S
ATOM   7523  N9  A   A 360     154.233  58.646   6.997  1.00 67.85      A16S
ATOM   7524  C4  A   A 360     153.302  59.510   6.479  1.00 67.85      A16S
ATOM   7525  N3  A   A 360     152.920  59.623   5.199  1.00 67.85      A16S
ATOM   7526  C2  A   A 360     152.011  60.579   5.064  1.00 67.85      A16S
ATOM   7527  N1  A   A 360     151.474  61.371   5.992  1.00 67.85      A16S
ATOM   7528  C6  A   A 360     151.874  61.228   7.269  1.00 67.85      A16S
ATOM   7529  N6  A   A 360     151.330  62.016   8.195  1.00 67.85      A16S
ATOM   7530  C5  A   A 360     152.842  60.251   7.544  1.00 67.85      A16S
ATOM   7531  N7  A   A 360     153.459  59.855   8.719  1.00 67.85      A16S
ATOM   7532  C8  A   A 360     154.268  58.900   8.341  1.00 67.85      A16S
ATOM   7533  C2* A   A 360     156.348  58.307   5.765  1.00 45.03      A16S
ATOM   7534  O2* A   A 360     156.690  57.766   4.511  1.00 45.03      A16S
ATOM   7535  C3* A   A 360     157.313  57.876   6.863  1.00 45.03      A16S
ATOM   7536  O3* A   A 360     158.652  57.834   6.404  1.00 45.03      A16S
ATOM   7537  P   G   A 361     159.608  59.095   6.654  1.00 50.18      A16S
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ATOM   7538  O1P G   A 361     159.498  59.445   8.095  1.00 74.50      A16S
ATOM   7539  O2P G   A 361     160.949  58.824   6.070  1.00 74.50      A16S
ATOM   7540  O5* G   A 361     158.920  60.241   5.784  1.00 50.18      A16S
ATOM   7541  C5* G   A 361     158.823  60.110   4.347  1.00 50.18      A16S
ATOM   7542  C4* G   A 361     158.114  61.300   3.736  1.00 50.18      A16S
ATOM   7543  O4* G   A 361     156.687  61.245   4.009  1.00 50.18      A16S
ATOM   7544  C1* G   A 361     156.179  62.566   4.137  1.00 50.18      A16S
ATOM   7545  N9  G   A 361     155.711  62.749   5.507  1.00 74.50      A16S
ATOM   7546  C4  G   A 361     154.568  63.394   5.917  1.00 74.50      A16S
ATOM   7547  N3  G   A 361     153.634  63.941   5.117  1.00 74.50      A16S
ATOM   7548  C2  G   A 361     152.667  64.513   5.815  1.00 74.50      A16S
ATOM   7549  N2  G   A 361     151.642  65.104   5.183  1.00 74.50      A16S
ATOM   7550  N1  G   A 361     152.629  64.548   7.183  1.00 74.50      A16S
ATOM   7551  C6  G   A 361     153.582  63.991   8.022  1.00 74.50      A16S
ATOM   7552  O6  G   A 361     153.455  64.081   9.245  1.00 74.50      A16S
ATOM   7553  C5  G   A 361     154.613  63.371   7.294  1.00 74.50      A16S
ATOM   7554  N7  G   A 361     155.744  62.706   7.740  1.00 74.50      A16S
ATOM   7555  C8  G   A 361     156.359  62.348   6.650  1.00 74.50      A16S
ATOM   7556  C2* G   A 361     157.335  63.529   3.857  1.00 50.18      A16S
ATOM   7557  O2* G   A 361     157.334  63.905   2.497  1.00 50.18      A16S
ATOM   7558  C3* G   A 361     158.541  62.676   4.216  1.00 50.18      A16S
ATOM   7559  O3* G   A 361     159.724  63.133   3.591  1.00 50.18      A16S
ATOM   7560  P   G   A 362     160.871  63.819   4.486  1.00 43.59      A16S
ATOM   7561  O1P G   A 362     162.030  64.122   3.602  1.00 70.40      A16S
ATOM   7562  O2P G   A 362     161.071  62.994   5.714  1.00 70.40      A16S
ATOM   7563  O5* G   A 362     160.221  65.201   4.922  1.00 43.59      A16S
ATOM   7564  C5* G   A 362     159.694  66.081   3.931  1.00 43.59      A16S
ATOM   7565  C4* G   A 362     158.779  67.098   4.553  1.00 43.59      A16S
ATOM   7566  O4* G   A 362     157.601  66.458   5.106  1.00 43.59      A16S
ATOM   7567  C1* G   A 362     157.121  67.222   6.191  1.00 43.59      A16S
ATOM   7568  N9  G   A 362     157.118  66.391   7.387  1.00 70.40      A16S
ATOM   7569  C4  G   A 362     156.227  66.474   8.418  1.00 70.40      A16S
ATOM   7570  N3  G   A 362     155.164  67.295   8.472  1.00 70.40      A16S
ATOM   7571  C2  G   A 362     154.511  67.177   9.607  1.00 70.40      A16S
ATOM   7572  N2  G   A 362     153.421  67.924   9.831  1.00 70.40      A16S
ATOM   7573  N1  G   A 362     154.875  66.322  10.608  1.00 70.40      A16S
ATOM   7574  C6  G   A 362     155.965  65.466  10.572  1.00 70.40      A16S
ATOM   7575  O6  G   A 362     156.207  64.735  11.539  1.00 70.40      A16S
ATOM   7576  C5  G   A 362     156.670  65.579   9.361  1.00 70.40      A16S
ATOM   7577  N7  G   A 362     157.800  64.910   8.914  1.00 70.40      A16S
ATOM   7578  C8  G   A 362     158.023  65.417   7.734  1.00 70.40      A16S
ATOM   7579  C2* G   A 362     158.060  68.420   6.353  1.00 43.59      A16S
ATOM   7580  O2* G   A 362     157.544  69.516   5.628  1.00 43.59      A16S
ATOM   7581  C3* G   A 362     159.332  67.907   5.705  1.00 43.59      A16S
ATOM   7582  O3* G   A 362     160.155  68.962   5.252  1.00 43.59      A16S
ATOM   7583  P   A   A 363     161.411  69.412   6.135  1.00 40.51      A16S
ATOM   7584  O1P A   A 363     161.958  68.184   6.740  1.00 56.79      A16S
ATOM   7585  O2P A   A 363     162.291  70.293   5.332  1.00 56.79      A16S
ATOM   7586  O5* A   A 363     160.767  70.253   7.322  1.00 40.51      A16S
ATOM   7587  C5* A   A 363     161.601  70.908   8.304  1.00 40.51      A16S
ATOM   7588  C4* A   A 363     160.783  71.882   9.119  1.00 40.51      A16S
ATOM   7589  O4* A   A 363     160.459  73.063   8.344  1.00 40.51      A16S
ATOM   7590  C1* A   A 363     159.174  73.533   8.714  1.00 40.51      A16S
ATOM   7591  N9  A   A 363     158.311  73.548   7.536  1.00 56.79      A16S
ATOM   7592  C4  A   A 363     157.105  74.199   7.444  1.00 56.79      A16S
ATOM   7593  N3  A   A 363     156.494  74.923   8.397  1.00 56.79      A16S
ATOM   7594  C2  A   A 363     155.350  75.408   7.949  1.00 56.79      A16S
ATOM   7595  N1  A   A 363     154.783  75.261   6.749  1.00 56.79      A16S
ATOM   7596  C6  A   A 363     155.422  74.526   5.817  1.00 56.79      A16S
ATOM   7597  N6  A   A 363     154.854  74.371   4.623  1.00 56.79      A16S
ATOM   7598  C5  A   A 363     156.648  73.963   6.165  1.00 56.79      A16S
ATOM   7599  N7  A   A 363     157.546  73.177   5.459  1.00 56.79      A16S
ATOM   7600  C8  A   A 363     158.511  72.954   6.317  1.00 56.79      A16S
ATOM   7601  C2* A   A 363     158.625  72.617   9.798  1.00 40.51      A16S
ATOM   7602  O2* A   A 363     158.847  73.232  11.049  1.00 40.51      A16S
ATOM   7603  C3* A   A 363     159.440  71.354   9.571  1.00 40.51      A16S
ATOM   7604  O3* A   A 363     159.576  70.592  10.738  1.00 40.51      A16S
ATOM   7605  P   A   A 364     158.654  69.303  10.935  1.00 46.06      A16S
ATOM   7606  O1P A   A 364     159.146  68.614  12.160  1.00 59.17      A16S
ATOM   7607  O2P A   A 364     158.627  68.572   9.637  1.00 59.17      A16S
ATOM   7608  O5* A   A 364     157.214  69.908  11.230  1.00 46.06      A16S
ATOM   7609  C5* A   A 364     157.009  70.772  12.359  1.00 46.06      A16S
ATOM   7610  C4* A   A 364     155.583  71.254  12.387  1.00 46.06      A16S
ATOM   7611  O4* A   A 364     155.354  72.143  11.267  1.00 46.06      A16S
ATOM   7612  C1* A   A 364     154.079  71.901  10.722  1.00 46.06      A16S
ATOM   7613  N9  A   A 364     154.288  71.543   9.320  1.00 59.17      A16S
ATOM   7614  C4  A   A 364     153.582  71.977   8.223  1.00 59.17      A16S
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ATOM   7615  N3   A   A 364     152.512  72.786   8.202  1.00 59.17      A16S
ATOM   7616  C2   A   A 364     152.119  73.005   6.958  1.00 59.17      A16S
ATOM   7617  N1   A   A 364     152.634  72.547   5.817  1.00 59.17      A16S
ATOM   7618  C6   A   A 364     153.708  71.742   5.874  1.00 59.17      A16S
ATOM   7619  N6   A   A 364     154.231  71.291   4.738  1.00 59.17      A16S
ATOM   7620  C5   A   A 364     154.217  71.427   7.129  1.00 59.17      A16S
ATOM   7621  N7   A   A 364     155.283  70.639   7.524  1.00 59.17      A16S
ATOM   7622  C8   A   A 364     155.277  70.734   8.829  1.00 59.17      A16S
ATOM   7623  C2*  A   A 364     153.368  70.870  11.612  1.00 46.06      A16S
ATOM   7624  O2*  A   A 364     152.594  71.557  12.577  1.00 46.06      A16S
ATOM   7625  C3*  A   A 364     154.537  70.155  12.281  1.00 46.06      A16S
ATOM   7626  O3*  A   A 364     154.223  69.715  13.605  1.00 46.06      A16S
ATOM   7627  P    U   A 365     153.353  68.386  13.834  1.00 41.66      A16S
ATOM   7628  O1P  U   A 365     153.447  68.040  15.268  1.00 57.22      A16S
ATOM   7629  O2P  U   A 365     153.692  67.367  12.819  1.00 57.22      A16S
ATOM   7630  O5*  U   A 365     151.867  68.859  13.551  1.00 41.66      A16S
ATOM   7631  C5*  U   A 365     151.145  69.615  14.519  1.00 41.66      A16S
ATOM   7632  C4*  U   A 365     149.730  69.777  14.066  1.00 41.66      A16S
ATOM   7633  O4*  U   A 365     149.697  70.651  12.936  1.00 41.66      A16S
ATOM   7634  C1*  U   A 365     148.530  70.391  12.208  1.00 41.66      A16S
ATOM   7635  N1   U   A 365     148.785  70.725  10.802  1.00 57.22      A16S
ATOM   7636  C6   U   A 365     147.957  71.589  10.151  1.00 57.22      A16S
ATOM   7637  C2   U   A 365     149.869  70.167  10.169  1.00 57.22      A16S
ATOM   7638  O2   U   A 365     150.635  69.397  10.717  1.00 57.22      A16S
ATOM   7639  N3   U   A 365     150.026  70.549   8.865  1.00 57.22      A16S
ATOM   7640  C4   U   A 365     149.225  71.411   8.153  1.00 57.22      A16S
ATOM   7641  O4   U   A 365     149.450  71.606   6.961  1.00 57.22      A16S
ATOM   7642  C5   U   A 365     148.138  71.945   8.886  1.00 57.22      A16S
ATOM   7643  C2*  U   A 365     148.060  68.968  12.537  1.00 41.66      A16S
ATOM   7644  O2*  U   A 365     146.705  68.948  12.961  1.00 41.66      A16S
ATOM   7645  C3*  U   A 365     149.087  68.497  13.580  1.00 41.66      A16S
ATOM   7646  O3*  U   A 365     148.474  67.944  14.732  1.00 41.66      A16S
ATOM   7647  P    C   A 366     148.368  66.356  14.913  1.00 41.27      A16S
ATOM   7648  O1P  C   A 366     149.756  65.841  15.004  1.00 60.45      A16S
ATOM   7649  O2P  C   A 366     147.444  65.818  13.876  1.00 60.45      A16S
ATOM   7650  O5*  C   A 366     147.655  66.236  16.331  1.00 41.27      A16S
ATOM   7651  C5*  C   A 366     148.208  66.912  17.480  1.00 41.27      A16S
ATOM   7652  C4*  C   A 366     147.155  67.114  18.545  1.00 41.27      A16S
ATOM   7653  O4*  C   A 366     146.275  68.205  18.188  1.00 41.27      A16S
ATOM   7654  C1*  C   A 366     144.916  67.794  18.246  1.00 41.27      A16S
ATOM   7655  N1   C   A 366     144.215  68.419  17.104  1.00 60.45      A16S
ATOM   7656  C6   C   A 366     144.875  68.628  15.925  1.00 60.45      A16S
ATOM   7657  C2   C   A 366     142.866  68.800  17.236  1.00 60.45      A16S
ATOM   7658  O2   C   A 366     142.278  68.611  18.312  1.00 60.45      A16S
ATOM   7659  N3   C   A 366     142.241  69.372  16.183  1.00 60.45      A16S
ATOM   7660  C4   C   A 366     142.905  69.574  15.042  1.00 60.45      A16S
ATOM   7661  N4   C   A 366     142.256  70.156  14.033  1.00 60.45      A16S
ATOM   7662  C5   C   A 366     144.266  69.196  14.882  1.00 60.45      A16S
ATOM   7663  C2*  C   A 366     144.893  66.263  18.212  1.00 41.27      A16S
ATOM   7664  O2*  C   A 366     143.826  65.781  19.001  1.00 41.27      A16S
ATOM   7665  C3*  C   A 366     146.253  65.931  18.801  1.00 41.27      A16S
ATOM   7666  O3*  C   A 366     146.576  64.913  19.745  1.00 41.27      A16S
ATOM   7667  P    U   A 367     146.725  65.262  21.305  1.00 50.72      A16S
ATOM   7668  O1P  U   A 367     146.610  66.726  21.519  1.00 58.33      A16S
ATOM   7669  O2P  U   A 367     147.971  64.558  21.692  1.00 58.33      A16S
ATOM   7670  O5*  U   A 367     145.475  64.550  21.992  1.00 50.72      A16S
ATOM   7671  C5*  U   A 367     145.000  63.281  21.517  1.00 50.72      A16S
ATOM   7672  C4*  U   A 367     143.869  62.790  22.380  1.00 50.72      A16S
ATOM   7673  O4*  U   A 367     142.797  63.768  22.381  1.00 50.72      A16S
ATOM   7674  C1*  U   A 367     141.589  63.140  22.009  1.00 50.72      A16S
ATOM   7675  N1   U   A 367     140.741  64.105  21.291  1.00 58.33      A16S
ATOM   7676  C6   U   A 367     141.036  64.519  20.020  1.00 58.33      A16S
ATOM   7677  C2   U   A 367     139.623  64.582  21.948  1.00 58.33      A16S
ATOM   7678  O2   U   A 367     139.317  64.244  23.077  1.00 58.33      A16S
ATOM   7679  N3   U   A 367     138.870  65.473  21.236  1.00 58.33      A16S
ATOM   7680  C4   U   A 367     139.113  65.929  19.970  1.00 58.33      A16S
ATOM   7681  O4   U   A 367     138.356  66.763  19.474  1.00 58.33      A16S
ATOM   7682  C5   U   A 367     140.282  65.388  19.356  1.00 58.33      A16S
ATOM   7683  C2*  U   A 367     141.987  61.906  21.207  1.00 50.72      A16S
ATOM   7684  O2*  U   A 367     140.937  60.964  21.200  1.00 50.72      A16S
ATOM   7685  C3*  U   A 367     143.249  61.464  21.944  1.00 50.72      A16S
ATOM   7686  O3*  U   A 367     142.918  60.696  23.107  1.00 50.72      A16S
ATOM   7687  P    U   A 368     143.926  59.550  23.627  1.00 49.17      A16S
ATOM   7688  O1P  U   A 368     143.498  59.244  25.010  1.00 85.79      A16S
ATOM   7689  O2P  U   A 368     145.332  59.960  23.369  1.00 85.79      A16S
ATOM   7690  O5*  U   A 368     143.579  58.298  22.703  1.00 49.17      A16S
ATOM   7691  C5*  U   A 368     142.301  57.641  22.820  1.00 49.17      A16S
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ATOM   7692  C4* U   A 368     141.753  57.298  21.459  1.00 49.17      A16S
ATOM   7693  O4* U   A 368     142.540  56.238  20.865  1.00 49.17      A16S
ATOM   7694  C1* U   A 368     141.740  55.561  19.914  1.00 49.17      A16S
ATOM   7695  N1  U   A 368     141.977  54.112  19.993  1.00 85.79      A16S
ATOM   7696  C6  U   A 368     141.280  53.310  20.867  1.00 85.79      A16S
ATOM   7697  C2  U   A 368     142.903  53.574  19.124  1.00 85.79      A16S
ATOM   7698  O2  U   A 368     143.579  54.257  18.367  1.00 85.79      A16S
ATOM   7699  N3  U   A 368     143.009  52.207  19.168  1.00 85.79      A16S
ATOM   7700  C4  U   A 368     142.303  51.344  19.978  1.00 85.79      A16S
ATOM   7701  O4  U   A 368     142.378  50.132  19.777  1.00 85.79      A16S
ATOM   7702  C5  U   A 368     141.406  51.982  20.885  1.00 85.79      A16S
ATOM   7703  C2* U   A 368     140.280  55.985  20.109  1.00 49.17      A16S
ATOM   7704  O2* U   A 368     139.862  56.784  19.018  1.00 49.17      A16S
ATOM   7705  C3* U   A 368     140.337  56.738  21.435  1.00 49.17      A16S
ATOM   7706  O3* U   A 368     139.386  57.789  21.431  1.00 49.17      A16S
ATOM   7707  P   C   A 369     137.857  57.487  21.805  1.00 50.02      A16S
ATOM   7708  O1P C   A 369     137.725  56.068  22.207  1.00 62.80      A16S
ATOM   7709  O2P C   A 369     137.002  58.016  20.719  1.00 62.80      A16S
ATOM   7710  O5* C   A 369     137.615  58.404  23.079  1.00 50.02      A16S
ATOM   7711  C5* C   A 369     138.468  58.321  24.227  1.00 50.02      A16S
ATOM   7712  C4* C   A 369     138.062  59.367  25.233  1.00 50.02      A16S
ATOM   7713  O4* C   A 369     138.469  60.680  24.775  1.00 50.02      A16S
ATOM   7714  C1* C   A 369     137.472  61.633  25.100  1.00 50.02      A16S
ATOM   7715  N1  C   A 369     137.001  62.261  23.845  1.00 62.80      A16S
ATOM   7716  C6  C   A 369     137.520  61.887  22.637  1.00 62.80      A16S
ATOM   7717  C2  C   A 369     136.010  63.245  23.908  1.00 62.80      A16S
ATOM   7718  O2  C   A 369     135.563  63.582  25.014  1.00 62.80      A16S
ATOM   7719  N3  C   A 369     135.565  63.804  22.767  1.00 62.80      A16S
ATOM   7720  C4  C   A 369     136.066  63.420  21.598  1.00 62.80      A16S
ATOM   7721  N4  C   A 369     135.570  63.979  20.494  1.00 62.80      A16S
ATOM   7722  C5  C   A 369     137.089  62.438  21.504  1.00 62.80      A16S
ATOM   7723  C2* C   A 369     136.369  60.913  25.882  1.00 50.02      A16S
ATOM   7724  O2* C   A 369     136.579  61.093  27.262  1.00 50.02      A16S
ATOM   7725  C3* C   A 369     136.564  59.469  25.446  1.00 50.02      A16S
ATOM   7726  O3* C   A 369     136.157  58.560  26.444  1.00 50.02      A16S
ATOM   7727  P   C   A 370     134.630  58.106  26.517  1.00 51.87      A16S
ATOM   7728  O1P C   A 370     134.220  57.671  25.166  1.00 57.74      A16S
ATOM   7729  O2P C   A 370     134.498  57.176  27.667  1.00 57.74      A16S
ATOM   7730  O5* C   A 370     133.841  59.449  26.840  1.00 51.87      A16S
ATOM   7731  C5* C   A 370     133.851  60.004  28.166  1.00 51.87      A16S
ATOM   7732  C4* C   A 370     132.666  60.916  28.364  1.00 51.87      A16S
ATOM   7733  O4* C   A 370     132.897  62.185  27.708  1.00 51.87      A16S
ATOM   7734  C1* C   A 370     131.666  62.693  27.229  1.00 51.87      A16S
ATOM   7735  N1  C   A 370     131.753  62.872  25.772  1.00 57.74      A16S
ATOM   7736  C6  C   A 370     132.590  62.102  25.015  1.00 57.74      A16S
ATOM   7737  C2  C   A 370     130.960  63.849  25.170  1.00 57.74      A16S
ATOM   7738  O2  C   A 370     130.217  64.539  25.877  1.00 57.74      A16S
ATOM   7739  N3  C   A 370     131.026  64.018  23.834  1.00 57.74      A16S
ATOM   7740  C4  C   A 370     131.847  63.264  23.106  1.00 57.74      A16S
ATOM   7741  N4  C   A 370     131.882  63.472  21.792  1.00 57.74      A16S
ATOM   7742  C5  C   A 370     132.669  62.266  23.692  1.00 57.74      A16S
ATOM   7743  C2* C   A 370     130.565  61.713  27.626  1.00 51.87      A16S
ATOM   7744  O2* C   A 370     129.994  62.156  28.837  1.00 51.87      A16S
ATOM   7745  C3* C   A 370     131.346  60.423  27.803  1.00 51.87      A16S
ATOM   7746  O3* C   A 370     130.692  59.541  28.690  1.00 51.87      A16S
ATOM   7747  P   G   A 371     129.570  58.540  28.125  1.00 50.14      A16S
ATOM   7748  O1P G   A 371     128.999  57.781  29.275  1.00 62.18      A16S
ATOM   7749  O2P G   A 371     130.112  57.810  26.941  1.00 62.18      A16S
ATOM   7750  O5* G   A 371     128.417  59.497  27.625  1.00 50.14      A16S
ATOM   7751  C5* G   A 371     127.748  60.313  28.559  1.00 50.14      A16S
ATOM   7752  C4* G   A 371     126.803  61.225  27.856  1.00 50.14      A16S
ATOM   7753  O4* G   A 371     127.538  62.218  27.088  1.00 50.14      A16S
ATOM   7754  C1* G   A 371     126.799  62.559  25.926  1.00 50.14      A16S
ATOM   7755  N9  G   A 371     127.583  62.212  24.739  1.00 62.18      A16S
ATOM   7756  C4  G   A 371     127.369  62.667  23.454  1.00 62.18      A16S
ATOM   7757  N3  G   A 371     126.434  63.564  23.072  1.00 62.18      A16S
ATOM   7758  C2  G   A 371     126.467  63.791  21.771  1.00 62.18      A16S
ATOM   7759  N2  G   A 371     125.622  64.675  21.222  1.00 62.18      A16S
ATOM   7760  N1  G   A 371     127.330  63.177  20.914  1.00 62.18      A16S
ATOM   7761  C6  G   A 371     128.292  62.248  21.280  1.00 62.18      A16S
ATOM   7762  O6  G   A 371     129.012  61.743  20.414  1.00 62.18      A16S
ATOM   7763  C5  G   A 371     128.287  62.009  22.677  1.00 62.18      A16S
ATOM   7764  N7  G   A 371     129.088  61.184  23.452  1.00 62.18      A16S
ATOM   7765  C8  G   A 371     128.641  61.343  24.666  1.00 62.18      A16S
ATOM   7766  C2* G   A 371     125.494  61.763  25.985  1.00 50.14      A16S
ATOM   7767  O2* G   A 371     124.536  62.578  26.628  1.00 50.14      A16S
ATOM   7768  C3* G   A 371     125.908  60.560  26.833  1.00 50.14      A16S
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ATOM   7769  O3* G   A 371     124.857  59.780  27.426  1.00 50.14      A16S
ATOM   7770  P   C   A 372     124.081  58.683  26.528  1.00 78.03      A16S
ATOM   7771  O1P C   A 372     123.076  57.960  27.341  1.00 45.45      A16S
ATOM   7772  O2P C   A 372     125.100  57.918  25.781  1.00 45.45      A16S
ATOM   7773  O5* C   A 372     123.258  59.622  25.554  1.00 78.03      A16S
ATOM   7774  C5* C   A 372     122.706  60.827  26.107  1.00 78.03      A16S
ATOM   7775  C4* C   A 372     121.865  61.535  25.110  1.00 78.03      A16S
ATOM   7776  O4* C   A 372     122.655  61.949  23.982  1.00 78.03      A16S
ATOM   7777  C1* C   A 372     121.812  62.054  22.863  1.00 78.03      A16S
ATOM   7778  N1  C   A 372     122.591  61.766  21.660  1.00 45.45      A16S
ATOM   7779  C6  C   A 372     123.504  60.753  21.629  1.00 45.45      A16S
ATOM   7780  C2  C   A 372     122.400  62.571  20.547  1.00 45.45      A16S
ATOM   7781  O2  C   A 372     121.537  63.477  20.595  1.00 45.45      A16S
ATOM   7782  N3  C   A 372     123.152  62.356  19.443  1.00 45.45      A16S
ATOM   7783  C4  C   A 372     124.056  61.383  19.430  1.00 45.45      A16S
ATOM   7784  N4  C   A 372     124.780  61.224  18.330  1.00 45.45      A16S
ATOM   7785  C5  C   A 372     124.255  60.534  20.543  1.00 45.45      A16S
ATOM   7786  C2* C   A 372     120.535  61.250  23.125  1.00 78.03      A16S
ATOM   7787  O2* C   A 372     119.454  62.142  22.986  1.00 78.03      A16S
ATOM   7788  C3* C   A 372     120.826  60.637  24.509  1.00 78.03      A16S
ATOM   7789  O3* C   A 372     119.842  60.352  25.523  1.00 78.03      A16S
ATOM   7790  P   A   A 373     118.769  61.454  26.015  1.00 42.49      A16S
ATOM   7791  O1P A   A 373     117.941  60.682  26.977  1.00 67.46      A16S
ATOM   7792  O2P A   A 373     118.089  62.137  24.879  1.00 67.46      A16S
ATOM   7793  O5* A   A 373     119.511  62.564  26.890  1.00 42.49      A16S
ATOM   7794  C5* A   A 373     118.769  63.159  28.007  1.00 42.49      A16S
ATOM   7795  C4* A   A 373     118.774  64.681  27.985  1.00 42.49      A16S
ATOM   7796  O4* A   A 373     120.044  65.180  28.463  1.00 42.49      A16S
ATOM   7797  C1* A   A 373     120.348  66.397  27.822  1.00 42.49      A16S
ATOM   7798  N9  A   A 373     121.562  66.188  27.037  1.00 67.46      A16S
ATOM   7799  C4  A   A 373     122.248  67.127  26.313  1.00 67.46      A16S
ATOM   7800  N3  A   A 373     121.939  68.422  26.161  1.00 67.46      A16S
ATOM   7801  C2  A   A 373     122.835  69.026  25.395  1.00 67.46      A16S
ATOM   7802  N1  A   A 373     123.925  68.524  24.806  1.00 67.46      A16S
ATOM   7803  C6  A   A 373     124.203  67.217  24.974  1.00 67.46      A16S
ATOM   7804  N6  A   A 373     125.287  66.710  24.380  1.00 67.46      A16S
ATOM   7805  C5  A   A 373     123.328  66.465  25.768  1.00 67.46      A16S
ATOM   7806  N7  A   A 373     123.318  65.129  26.133  1.00 67.46      A16S
ATOM   7807  C8  A   A 373     122.253  65.017  26.879  1.00 67.46      A16S
ATOM   7808  C2* A   A 373     119.133  66.789  26.983  1.00 42.49      A16S
ATOM   7809  O2* A   A 373     118.277  67.559  27.796  1.00 42.49      A16S
ATOM   7810  C3* A   A 373     118.486  65.443  26.701  1.00 42.49      A16S
ATOM   7811  O3* A   A 373     117.090  65.657  26.507  1.00 42.49      A16S
ATOM   7812  P   A   A 374     116.535  66.039  25.043  1.00 45.04      A16S
ATOM   7813  O1P A   A 374     115.066  66.252  25.132  1.00 61.44      A16S
ATOM   7814  O2P A   A 374     117.075  65.044  24.075  1.00 61.44      A16S
ATOM   7815  O5* A   A 374     117.234  67.423  24.695  1.00 45.04      A16S
ATOM   7816  C5* A   A 374     116.762  68.652  25.241  1.00 45.04      A16S
ATOM   7817  C4* A   A 374     117.477  69.799  24.583  1.00 45.04      A16S
ATOM   7818  O4* A   A 374     118.902  69.568  24.699  1.00 45.04      A16S
ATOM   7819  C1* A   A 374     119.559  70.042  23.538  1.00 45.04      A16S
ATOM   7820  N9  A   A 374     120.291  68.929  22.935  1.00 61.44      A16S
ATOM   7821  C4  A   A 374     121.094  68.986  21.820  1.00 61.44      A16S
ATOM   7822  N3  A   A 374     121.377  70.063  21.071  1.00 61.44      A16S
ATOM   7823  C2  A   A 374     122.183  69.736  20.067  1.00 61.44      A16S
ATOM   7824  N1  A   A 374     122.698  68.550  19.750  1.00 61.44      A16S
ATOM   7825  C6  A   A 374     122.392  67.488  20.523  1.00 61.44      A16S
ATOM   7826  N6  A   A 374     122.900  66.294  20.206  1.00 61.44      A16S
ATOM   7827  C5  A   A 374     121.550  67.701  21.620  1.00 61.44      A16S
ATOM   7828  N7  A   A 374     121.053  66.847  22.592  1.00 61.44      A16S
ATOM   7829  C8  A   A 374     120.318  67.624  23.348  1.00 61.44      A16S
ATOM   7830  C2* A   A 374     118.499  70.645  22.610  1.00 45.04      A16S
ATOM   7831  O2* A   A 374     118.445  72.048  22.801  1.00 45.04      A16S
ATOM   7832  C3* A   A 374     117.237  69.946  23.091  1.00 45.04      A16S
ATOM   7833  O3* A   A 374     116.097  70.740  22.840  1.00 45.04      A16S
ATOM   7834  P   U   A 375     115.123  70.360  21.629  1.00 38.10      A16S
ATOM   7835  O1P U   A 375     113.977  71.307  21.664  1.00 58.27      A16S
ATOM   7836  O2P U   A 375     114.865  68.898  21.702  1.00 58.27      A16S
ATOM   7837  O5* U   A 375     115.990  70.682  20.332  1.00 38.10      A16S
ATOM   7838  C5* U   A 375     116.181  72.049  19.891  1.00 38.10      A16S
ATOM   7839  C4* U   A 375     116.966  72.094  18.597  1.00 38.10      A16S
ATOM   7840  O4* U   A 375     118.335  71.682  18.842  1.00 38.10      A16S
ATOM   7841  C1* U   A 375     118.833  70.989  17.711  1.00 38.10      A16S
ATOM   7842  N1  U   A 375     119.175  69.615  18.108  1.00 58.27      A16S
ATOM   7843  C6  U   A 375     118.602  69.026  19.207  1.00 58.27      A16S
ATOM   7844  C2  U   A 375     120.079  68.924  17.322  1.00 58.27      A16S
ATOM   7845  O2  U   A 375     120.632  69.416  16.349  1.00 58.27      A16S
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ATOM   7846  N3  U   A 375     120.312  67.630  17.715  1.00 58.27      A16S
ATOM   7847  C4  U   A 375     119.752  66.976  18.791  1.00 58.27      A16S
ATOM   7848  O4  U   A 375     120.027  65.790  18.992  1.00 58.27      A16S
ATOM   7849  C5  U   A 375     118.850  67.767  19.562  1.00 58.27      A16S
ATOM   7850  C2* U   A 375     117.745  71.004  16.643  1.00 38.10      A16S
ATOM   7851  O2* U   A 375     117.968  72.089  15.769  1.00 38.10      A16S
ATOM   7852  C3* U   A 375     116.491  71.175  17.486  1.00 38.10      A16S
ATOM   7853  O3* U   A 375     115.408  71.705  16.740  1.00 38.10      A16S
ATOM   7854  P   G   A 376     114.388  70.697  16.007  1.00 31.53      A16S
ATOM   7855  O1P G   A 376     113.383  71.507  15.265  1.00 65.73      A16S
ATOM   7856  O2P G   A 376     113.937  69.694  17.006  1.00 65.73      A16S
ATOM   7857  O5* G   A 376     115.305  69.931  14.959  1.00 31.53      A16S
ATOM   7858  C5* G   A 376     115.956  70.654  13.898  1.00 31.53      A16S
ATOM   7859  C4* G   A 376     116.821  69.730  13.075  1.00 31.53      A16S
ATOM   7860  O4* G   A 376     118.001  69.347  13.817  1.00 31.53      A16S
ATOM   7861  C1* G   A 376     118.383  68.039  13.443  1.00 31.53      A16S
ATOM   7862  N9  G   A 376     118.340  67.185  14.624  1.00 65.73      A16S
ATOM   7863  C4  G   A 376     118.946  65.961  14.771  1.00 65.73      A16S
ATOM   7864  N3  G   A 376     119.726  65.351  13.861  1.00 65.73      A16S
ATOM   7865  C2  G   A 376     120.160  64.186  14.291  1.00 65.73      A16S
ATOM   7866  N2  G   A 376     120.973  63.461  13.525  1.00 65.73      A16S
ATOM   7867  N1  G   A 376     119.834  63.650  15.508  1.00 65.73      A16S
ATOM   7868  C6  G   A 376     119.016  64.257  16.456  1.00 65.73      A16S
ATOM   7869  O6  G   A 376     118.756  63.677  17.522  1.00 65.73      A16S
ATOM   7870  C5  G   A 376     118.572  65.517  16.018  1.00 65.73      A16S
ATOM   7871  N7  G   A 376     117.774  66.452  16.656  1.00 65.73      A16S
ATOM   7872  C8  G   A 376     117.666  67.424  15.794  1.00 65.73      A16S
ATOM   7873  C2* G   A 376     117.398  67.561  12.379  1.00 31.53      A16S
ATOM   7874  O2* G   A 376     117.875  67.887  11.098  1.00 31.53      A16S
ATOM   7875  C3* G   A 376     116.193  68.416  12.671  1.00 31.53      A16S
ATOM   7876  O3* G   A 376     115.387  68.524  11.527  1.00 31.53      A16S
ATOM   7877  P   G   A 377     114.254  67.415  11.271  1.00 37.85      A16S
ATOM   7878  O1P G   A 377     113.464  67.822  10.074  1.00 54.91      A16S
ATOM   7879  O2P G   A 377     113.561  67.158  12.560  1.00 54.91      A16S
ATOM   7880  O5* G   A 377     115.100  66.124  10.899  1.00 37.85      A16S
ATOM   7881  C5* G   A 377     115.827  66.092   9.678  1.00 37.85      A16S
ATOM   7882  C4* G   A 377     116.537  64.780   9.518  1.00 37.85      A16S
ATOM   7883  O4* G   A 377     117.508  64.606  10.575  1.00 37.85      A16S
ATOM   7884  C1* G   A 377     117.669  63.226  10.844  1.00 37.85      A16S
ATOM   7885  N9  G   A 377     117.356  62.993  12.252  1.00 54.91      A16S
ATOM   7886  C4  G   A 377     117.548  61.826  12.945  1.00 54.91      A16S
ATOM   7887  N3  G   A 377     118.052  60.689  12.443  1.00 54.91      A16S
ATOM   7888  C2  G   A 377     118.104  59.737  13.348  1.00 54.91      A16S
ATOM   7889  N2  G   A 377     118.566  58.534  13.009  1.00 54.91      A16S
ATOM   7890  N1  G   A 377     117.703  59.890  14.649  1.00 54.91      A16S
ATOM   7891  C6  G   A 377     117.182  61.057  15.187  1.00 54.91      A16S
ATOM   7892  O6  G   A 377     116.851  61.095  16.374  1.00 54.91      A16S
ATOM   7893  C5  G   A 377     117.111  62.082  14.225  1.00 54.91      A16S
ATOM   7894  N7  G   A 377     116.652  63.385  14.338  1.00 54.91      A16S
ATOM   7895  C8  G   A 377     116.815  63.888  13.145  1.00 54.91      A16S
ATOM   7896  C2* G   A 377     116.751  62.466   9.882  1.00 37.85      A16S
ATOM   7897  O2* G   A 377     117.494  62.138   8.724  1.00 37.85      A16S
ATOM   7898  C3* G   A 377     115.703  63.515   9.555  1.00 37.85      A16S
ATOM   7899  O3* G   A 377     115.120  63.271   8.289  1.00 37.85      A16S
ATOM   7900  P   G   A 378     113.778  62.404   8.191  1.00 37.90      A16S
ATOM   7901  O1P G   A 378     113.224  62.534   6.809  1.00 48.11      A16S
ATOM   7902  O2P G   A 378     112.927  62.756   9.352  1.00 48.11      A16S
ATOM   7903  O5* G   A 378     114.305  60.919   8.423  1.00 37.90      A16S
ATOM   7904  C5* G   A 378     115.160  60.276   7.456  1.00 37.90      A16S
ATOM   7905  C4* G   A 378     115.358  58.820   7.810  1.00 37.90      A16S
ATOM   7906  O4* G   A 378     116.242  58.692   8.952  1.00 37.90      A16S
ATOM   7907  C1* G   A 378     115.823  57.601   9.755  1.00 37.90      A16S
ATOM   7908  N9  G   A 378     115.446  58.130  11.058  1.00 48.11      A16S
ATOM   7909  C4  G   A 378     115.389  57.446  12.249  1.00 48.11      A16S
ATOM   7910  N3  G   A 378     115.657  56.141  12.431  1.00 48.11      A16S
ATOM   7911  C2  G   A 378     115.524  55.790  13.693  1.00 48.11      A16S
ATOM   7912  N2  G   A 378     115.770  54.538  14.066  1.00 48.11      A16S
ATOM   7913  N1  G   A 378     115.150  56.641  14.687  1.00 48.11      A16S
ATOM   7914  C6  G   A 378     114.874  57.984  14.520  1.00 48.11      A16S
ATOM   7915  O6  G   A 378     114.556  58.673  15.490  1.00 48.11      A16S
ATOM   7916  C5  G   A 378     115.013  58.377  13.183  1.00 48.11      A16S
ATOM   7917  N7  G   A 378     114.822  59.615  12.595  1.00 48.11      A16S
ATOM   7918  C8  G   A 378     115.086  59.419  11.336  1.00 48.11      A16S
ATOM   7919  C2* G   A 378     114.649  56.925   9.050  1.00 37.90      A16S
ATOM   7920  O2* G   A 378     115.150  55.857   8.277  1.00 37.90      A16S
ATOM   7921  C3* G   A 378     114.103  58.065   8.205  1.00 37.90      A16S
ATOM   7922  O3* G   A 378     113.414  57.601   7.069  1.00 37.90      A16S
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ATOM   7923  P    C   A 379     111.824  57.486   7.118  1.00 30.44      A16S
ATOM   7924  O1P  C   A 379     111.330  57.158   5.761  1.00 52.19      A16S
ATOM   7925  O2P  C   A 379     111.297  58.681   7.819  1.00 52.19      A16S
ATOM   7926  O5*  C   A 379     111.578  56.257   8.102  1.00 30.44      A16S
ATOM   7927  C5*  C   A 379     111.992  54.917   7.754  1.00 30.44      A16S
ATOM   7928  C4*  C   A 379     111.759  53.984   8.917  1.00 30.44      A16S
ATOM   7929  O4*  C   A 379     112.663  54.317   9.998  1.00 30.44      A16S
ATOM   7930  C1*  C   A 379     112.055  53.997  11.234  1.00 30.44      A16S
ATOM   7931  N1   C   A 379     112.029  55.190  12.092  1.00 52.19      A16S
ATOM   7932  C6   C   A 379     111.867  56.433  11.555  1.00 52.19      A16S
ATOM   7933  C2   C   A 379     112.139  55.032  13.493  1.00 52.19      A16S
ATOM   7934  O2   C   A 379     112.329  53.898  13.969  1.00 52.19      A16S
ATOM   7935  N3   C   A 379     112.035  56.119  14.290  1.00 52.19      A16S
ATOM   7936  C4   C   A 379     111.838  57.319  13.752  1.00 52.19      A16S
ATOM   7937  N4   C   A 379     111.699  58.354  14.577  1.00 52.19      A16S
ATOM   7938  C5   C   A 379     111.765  57.513  12.341  1.00 52.19      A16S
ATOM   7939  C2*  C   A 379     110.638  53.492  10.952  1.00 30.44      A16S
ATOM   7940  O2*  C   A 379     110.596  52.080  10.992  1.00 30.44      A16S
ATOM   7941  C3*  C   A 379     110.379  54.031   9.556  1.00 30.44      A16S
ATOM   7942  O3*  C   A 379     109.420  53.215   8.893  1.00 30.44      A16S
ATOM   7943  P    G   A 380     107.857  53.560   9.039  1.00 51.08      A16S
ATOM   7944  O1P  G   A 380     107.063  52.572   8.254  1.00 67.88      A16S
ATOM   7945  O2P  G   A 380     107.711  55.010   8.742  1.00 67.88      A16S
ATOM   7946  O5*  G   A 380     107.570  53.347  10.592  1.00 51.08      A16S
ATOM   7947  C5*  G   A 380     107.561  52.030  11.158  1.00 51.08      A16S
ATOM   7948  C4*  G   A 380     107.134  52.067  12.604  1.00 51.08      A16S
ATOM   7949  O4*  G   A 380     108.185  52.665  13.402  1.00 51.08      A16S
ATOM   7950  C1*  G   A 380     107.608  53.297  14.537  1.00 51.08      A16S
ATOM   7951  N9   G   A 380     107.916  54.724  14.526  1.00 67.88      A16S
ATOM   7952  C4   G   A 380     108.067  55.511  15.635  1.00 67.88      A16S
ATOM   7953  N3   G   A 380     108.074  55.080  16.903  1.00 67.88      A16S
ATOM   7954  C2   G   A 380     108.161  56.074  17.756  1.00 67.88      A16S
ATOM   7955  N2   G   A 380     108.195  55.824  19.064  1.00 67.88      A16S
ATOM   7956  N1   G   A 380     108.224  57.387  17.401  1.00 67.88      A16S
ATOM   7957  C6   G   A 380     108.215  57.861  16.106  1.00 67.88      A16S
ATOM   7958  O6   G   A 380     108.248  59.080  15.905  1.00 67.88      A16S
ATOM   7959  C5   G   A 380     108.147  56.799  15.166  1.00 67.88      A16S
ATOM   7960  N7   G   A 380     108.128  56.819  13.778  1.00 67.88      A16S
ATOM   7961  C8   G   A 380     108.011  55.563  13.441  1.00 67.88      A16S
ATOM   7962  C2*  G   A 380     106.088  53.127  14.446  1.00 51.08      A16S
ATOM   7963  O2*  G   A 380     105.668  52.034  15.231  1.00 51.08      A16S
ATOM   7964  C3*  G   A 380     105.888  52.872  12.961  1.00 51.08      A16S
ATOM   7965  O3*  G   A 380     104.661  52.194  12.735  1.00 51.08      A16S
ATOM   7966  P    C   A 381     103.424  52.986  12.075  1.00 57.46      A16S
ATOM   7967  O1P  C   A 381     103.971  53.742  10.925  1.00 66.20      A16S
ATOM   7968  O2P  C   A 381     102.279  52.062  11.860  1.00 66.20      A16S
ATOM   7969  O5*  C   A 381     102.987  54.039  13.182  1.00 57.46      A16S
ATOM   7970  C5*  C   A 381     102.041  55.076  12.857  1.00 57.46      A16S
ATOM   7971  C4*  C   A 381     101.372  55.604  14.105  1.00 57.46      A16S
ATOM   7972  O4*  C   A 381     100.489  54.598  14.669  1.00 57.46      A16S
ATOM   7973  C1*  C   A 381     100.477  54.715  16.083  1.00 57.46      A16S
ATOM   7974  N1   C   A 381     100.935  53.446  16.688  1.00 66.20      A16S
ATOM   7975  C6   C   A 381     101.343  52.392  15.921  1.00 66.20      A16S
ATOM   7976  C2   C   A 381     100.964  53.348  18.083  1.00 66.20      A16S
ATOM   7977  O2   C   A 381     100.568  54.305  18.761  1.00 66.20      A16S
ATOM   7978  N3   C   A 381     101.422  52.223  18.661  1.00 66.20      A16S
ATOM   7979  C4   C   A 381     101.837  51.214  17.911  1.00 66.20      A16S
ATOM   7980  N4   C   A 381     102.301  50.135  18.539  1.00 66.20      A16S
ATOM   7981  C5   C   A 381     101.801  51.268  16.487  1.00 66.20      A16S
ATOM   7982  C2*  C   A 381     101.396  55.879  16.459  1.00 57.46      A16S
ATOM   7983  O2*  C   A 381     100.647  57.058  16.648  1.00 57.46      A16S
ATOM   7984  C3*  C   A 381     102.302  55.969  15.244  1.00 57.46      A16S
ATOM   7985  O3*  C   A 381     102.851  57.265  15.116  1.00 57.46      A16S
ATOM   7986  P    A   A 382     104.266  57.584  15.804  1.00 50.70      A16S
ATOM   7987  O1P  A   A 382     104.456  59.062  15.755  1.00 76.55      A16S
ATOM   7988  O2P  A   A 382     105.271  56.696  15.167  1.00 76.55      A16S
ATOM   7989  O5*  A   A 382     104.079  57.132  17.326  1.00 50.70      A16S
ATOM   7990  C5*  A   A 382     103.267  57.905  18.233  1.00 50.70      A16S
ATOM   7991  C4*  A   A 382     103.217  57.250  19.597  1.00 50.70      A16S
ATOM   7992  O4*  A   A 382     102.701  55.904  19.450  1.00 50.70      A16S
ATOM   7993  C1*  A   A 382     103.354  55.036  20.358  1.00 50.70      A16S
ATOM   7994  N9   A   A 382     104.011  53.983  19.575  1.00 76.55      A16S
ATOM   7995  C4   A   A 382     104.476  52.775  20.033  1.00 76.55      A16S
ATOM   7996  N3   A   A 382     104.451  52.315  21.294  1.00 76.55      A16S
ATOM   7997  C2   A   A 382     104.975  51.094  21.352  1.00 76.55      A16S
ATOM   7998  N1   A   A 382     105.490  50.347  20.372  1.00 76.55      A16S
ATOM   7999  C6   A   A 382     105.505  50.846  19.124  1.00 76.55      A16S
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ATOM   8000  N6  A   A 382     106.030  50.110  18.150  1.00 76.55      A16S
ATOM   8001  C5  A   A 382     104.973  52.117  18.924  1.00 76.55      A16S
ATOM   8002  N7  A   A 382     104.838  52.895  17.789  1.00 76.55      A16S
ATOM   8003  C8  A   A 382     104.271  53.990  18.225  1.00 76.55      A16S
ATOM   8004  C2* A   A 382     104.287  55.887  21.227  1.00 50.70      A16S
ATOM   8005  O2* A   A 382     103.623  56.267  22.414  1.00 50.70      A16S
ATOM   8006  C3* A   A 382     104.539  57.093  20.334  1.00 50.70      A16S
ATOM   8007  O3* A   A 382     104.804  58.239  21.130  1.00 50.70      A16S
ATOM   8008  P   A   A 383     106.296  58.517  21.665  1.00 59.35      A16S
ATOM   8009  O1P A   A 383     106.300  59.771  22.469  1.00 66.63      A16S
ATOM   8010  O2P A   A 383     107.203  58.393  20.495  1.00 66.63      A16S
ATOM   8011  O5* A   A 383     106.584  57.332  22.696  1.00 59.35      A16S
ATOM   8012  C5* A   A 383     106.000  57.338  24.012  1.00 59.35      A16S
ATOM   8013  C4* A   A 383     106.288  56.041  24.716  1.00 59.35      A16S
ATOM   8014  O4* A   A 383     105.721  54.948  23.952  1.00 59.35      A16S
ATOM   8015  C1* A   A 383     106.569  53.813  24.030  1.00 59.35      A16S
ATOM   8016  N9  A   A 383     107.030  53.482  22.681  1.00 66.63      A16S
ATOM   8017  C4  A   A 383     107.567  52.286  22.279  1.00 66.63      A16S
ATOM   8018  N3  A   A 383     107.747  51.185  23.021  1.00 66.63      A16S
ATOM   8019  C2  A   A 383     108.296  50.222  22.294  1.00 66.63      A16S
ATOM   8020  N1  A   A 383     108.656  50.231  21.005  1.00 66.63      A16S
ATOM   8021  C6  A   A 383     108.456  51.353  20.291  1.00 66.63      A16S
ATOM   8022  N6  A   A 383     108.807  51.362  19.006  1.00 66.63      A16S
ATOM   8023  C5  A   A 383     107.885  52.446  20.945  1.00 66.63      A16S
ATOM   8024  N7  A   A 383     107.544  53.714  20.509  1.00 66.63      A16S
ATOM   8025  C8  A   A 383     107.041  54.286  21.571  1.00 66.63      A16S
ATOM   8026  C2* A   A 383     107.739  54.173  24.945  1.00 59.35      A16S
ATOM   8027  O2* A   A 383     107.501  53.699  26.255  1.00 59.35      A16S
ATOM   8028  C3* A   A 383     107.756  55.693  24.847  1.00 59.35      A16S
ATOM   8029  O3* A   A 383     108.310  56.258  26.012  1.00 59.35      A16S
ATOM   8030  P   G   A 384     109.722  57.011  25.932  1.00 43.58      A16S
ATOM   8031  O1P G   A 384     110.295  57.032  27.306  1.00 58.17      A16S
ATOM   8032  O2P G   A 384     109.524  58.288  25.189  1.00 58.17      A16S
ATOM   8033  O5* G   A 384     110.655  56.088  25.033  1.00 43.58      A16S
ATOM   8034  C5* G   A 384     110.941  54.749  25.415  1.00 43.58      A16S
ATOM   8035  C4* G   A 384     111.367  53.942  24.210  1.00 43.58      A16S
ATOM   8036  O4* G   A 384     110.432  54.147  23.117  1.00 43.58      A16S
ATOM   8037  C1* G   A 384     111.102  53.937  21.890  1.00 43.58      A16S
ATOM   8038  N9  G   A 384     110.951  55.102  21.023  1.00 58.17      A16S
ATOM   8039  C4  G   A 384     111.178  55.111  19.671  1.00 58.17      A16S
ATOM   8040  N3  G   A 384     111.541  54.049  18.926  1.00 58.17      A16S
ATOM   8041  C2  G   A 384     111.700  54.364  17.661  1.00 58.17      A16S
ATOM   8042  N2  G   A 384     112.060  53.416  16.776  1.00 58.17      A16S
ATOM   8043  N1  G   A 384     111.520  55.624  17.163  1.00 58.17      A16S
ATOM   8044  C6  G   A 384     111.151  56.732  17.909  1.00 58.17      A16S
ATOM   8045  O6  G   A 384     111.018  57.824  17.354  1.00 58.17      A16S
ATOM   8046  C5  G   A 384     110.974  56.404  19.274  1.00 58.17      A16S
ATOM   8047  N7  G   A 384     110.602  57.195  20.351  1.00 58.17      A16S
ATOM   8048  C8  G   A 384     110.597  56.379  21.366  1.00 58.17      A16S
ATOM   8049  C2* G   A 384     112.572  53.668  22.200  1.00 43.58      A16S
ATOM   8050  O2* G   A 384     112.774  52.274  22.186  1.00 43.58      A16S
ATOM   8051  C3* G   A 384     112.719  54.245  23.595  1.00 43.58      A16S
ATOM   8052  O3* G   A 384     113.750  53.551  24.264  1.00 43.58      A16S
ATOM   8053  P   C   A 385     115.278  53.964  24.003  1.00 51.42      A16S
ATOM   8054  O1P C   A 385     116.141  53.301  25.027  1.00 65.61      A16S
ATOM   8055  O2P C   A 385     115.316  55.446  23.842  1.00 65.61      A16S
ATOM   8056  O5* C   A 385     115.645  53.306  22.605  1.00 51.42      A16S
ATOM   8057  C5* C   A 385     115.722  51.882  22.464  1.00 51.42      A16S
ATOM   8058  C4* C   A 385     116.088  51.532  21.047  1.00 51.42      A16S
ATOM   8059  O4* C   A 385     115.025  51.919  20.143  1.00 51.42      A16S
ATOM   8060  C1* C   A 385     115.580  52.421  18.945  1.00 51.42      A16S
ATOM   8061  N1  C   A 385     115.171  53.827  18.790  1.00 65.61      A16S
ATOM   8062  C6  C   A 385     114.596  54.504  19.823  1.00 65.61      A16S
ATOM   8063  C2  C   A 385     115.393  54.467  17.568  1.00 65.61      A16S
ATOM   8064  O2  C   A 385     115.903  53.833  16.635  1.00 65.61      A16S
ATOM   8065  N3  C   A 385     115.046  55.761  17.432  1.00 65.61      A16S
ATOM   8066  C4  C   A 385     114.492  56.411  18.449  1.00 65.61      A16S
ATOM   8067  N4  C   A 385     114.169  57.685  18.269  1.00 65.61      A16S
ATOM   8068  C5  C   A 385     114.245  55.783  19.697  1.00 65.61      A16S
ATOM   8069  C2* C   A 385     117.095  52.277  19.047  1.00 51.42      A16S
ATOM   8070  O2* C   A 385     117.481  51.055  18.473  1.00 51.42      A16S
ATOM   8071  C3* C   A 385     117.302  52.271  20.545  1.00 51.42      A16S
ATOM   8072  O3* C   A 385     118.467  51.579  20.901  1.00 51.42      A16S
ATOM   8073  P   C   A 386     119.848  52.372  20.994  1.00 50.79      A16S
ATOM   8074  O1P C   A 386     120.886  51.374  21.356  1.00 69.43      A16S
ATOM   8075  O2P C   A 386     119.636  53.566  21.861  1.00 69.43      A16S
ATOM   8076  O5* C   A 386     120.097  52.847  19.494  1.00 50.79      A16S
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ATOM   8077  C5* C   A 386     120.380  51.883  18.471  1.00 50.79      A16S
ATOM   8078  C4* C   A 386     120.540  52.553  17.128  1.00 50.79      A16S
ATOM   8079  O4* C   A 386     119.257  53.021  16.646  1.00 50.79      A16S
ATOM   8080  C1* C   A 386     119.448  54.164  15.831  1.00 50.79      A16S
ATOM   8081  N1  C   A 386     118.749  55.317  16.418  1.00 69.43      A16S
ATOM   8082  C6  C   A 386     118.641  55.469  17.770  1.00 69.43      A16S
ATOM   8083  C2  C   A 386     118.239  56.286  15.562  1.00 69.43      A16S
ATOM   8084  O2  C   A 386     118.281  56.086  14.342  1.00 69.43      A16S
ATOM   8085  N3  C   A 386     117.708  57.410  16.078  1.00 69.43      A16S
ATOM   8086  C4  C   A 386     117.653  57.572  17.397  1.00 69.43      A16S
ATOM   8087  N4  C   A 386     117.166  58.711  17.861  1.00 69.43      A16S
ATOM   8088  C5  C   A 386     118.107  56.573  18.297  1.00 69.43      A16S
ATOM   8089  C2* C   A 386     120.945  54.453  15.784  1.00 50.79      A16S
ATOM   8090  O2* C   A 386     121.468  53.888  14.603  1.00 50.79      A16S
ATOM   8091  C3* C   A 386     121.429  53.779  17.061  1.00 50.79      A16S
ATOM   8092  O3* C   A 386     122.811  53.474  17.034  1.00 50.79      A16S
ATOM   8093  P   U   A 387     123.842  54.460  17.777  1.00 48.44      A16S
ATOM   8094  O1P U   A 387     125.208  53.873  17.659  1.00 75.78      A16S
ATOM   8095  O2P U   A 387     123.304  54.799  19.114  1.00 75.78      A16S
ATOM   8096  O5* U   A 387     123.780  55.789  16.907  1.00 48.44      A16S
ATOM   8097  C5* U   A 387     124.026  55.748  15.495  1.00 48.44      A16S
ATOM   8098  C4* U   A 387     123.890  57.124  14.890  1.00 48.44      A16S
ATOM   8099  O4* U   A 387     122.497  57.547  14.849  1.00 48.44      A16S
ATOM   8100  C1* U   A 387     122.433  58.959  14.932  1.00 48.44      A16S
ATOM   8101  N1  U   A 387     121.663  59.340  16.122  1.00 75.78      A16S
ATOM   8102  C6  U   A 387     121.876  58.738  17.336  1.00 75.78      A16S
ATOM   8103  C2  U   A 387     120.754  60.361  15.992  1.00 75.78      A16S
ATOM   8104  O2  U   A 387     120.478  60.866  14.924  1.00 75.78      A16S
ATOM   8105  N3  U   A 387     120.168  60.767  17.162  1.00 75.78      A16S
ATOM   8106  C4  U   A 387     120.379  60.248  18.418  1.00 75.78      A16S
ATOM   8107  O4  U   A 387     119.907  60.826  19.399  1.00 75.78      A16S
ATOM   8108  C5  U   A 387     121.281  59.145  18.456  1.00 75.78      A16S
ATOM   8109  C2* U   A 387     123.867  59.476  15.061  1.00 48.44      A16S
ATOM   8110  O2* U   A 387     124.348  59.850  13.787  1.00 48.44      A16S
ATOM   8111  C3* U   A 387     124.586  58.254  15.618  1.00 48.44      A16S
ATOM   8112  O3* U   A 387     125.979  58.274  15.389  1.00 48.44      A16S
ATOM   8113  P   G   A 388     126.982  58.290  16.647  1.00 45.92      A16S
ATOM   8114  O1P G   A 388     127.392  56.890  16.935  1.00 52.51      A16S
ATOM   8115  O2P G   A 388     126.359  59.092  17.717  1.00 52.51      A16S
ATOM   8116  O5* G   A 388     128.244  59.105  16.124  1.00 45.92      A16S
ATOM   8117  C5* G   A 388     128.271  60.531  16.223  1.00 45.92      A16S
ATOM   8118  C4* G   A 388     129.616  61.047  15.814  1.00 45.92      A16S
ATOM   8119  O4* G   A 388     130.625  60.465  16.677  1.00 45.92      A16S
ATOM   8120  C1* G   A 388     131.588  59.784  15.899  1.00 45.92      A16S
ATOM   8121  N9  G   A 388     131.989  58.592  16.639  1.00 52.51      A16S
ATOM   8122  C4  G   A 388     133.117  58.449  17.408  1.00 52.51      A16S
ATOM   8123  N3  G   A 388     134.071  59.376  17.591  1.00 52.51      A16S
ATOM   8124  C2  G   A 388     135.007  58.959  18.423  1.00 52.51      A16S
ATOM   8125  N2  G   A 388     136.040  59.755  18.725  1.00 52.51      A16S
ATOM   8126  N1  G   A 388     135.002  57.733  19.023  1.00 52.51      A16S
ATOM   8127  C6  G   A 388     134.027  56.765  18.850  1.00 52.51      A16S
ATOM   8128  O6  G   A 388     134.110  55.697  19.456  1.00 52.51      A16S
ATOM   8129  C5  G   A 388     133.026  57.192  17.961  1.00 52.51      A16S
ATOM   8130  N7  G   A 388     131.883  56.544  17.526  1.00 52.51      A16S
ATOM   8131  C8  G   A 388     131.302  57.407  16.740  1.00 52.51      A16S
ATOM   8132  C2* G   A 388     130.923  59.505  14.551  1.00 45.92      A16S
ATOM   8133  O2* G   A 388     131.902  59.461  13.539  1.00 45.92      A16S
ATOM   8134  C3* G   A 388     130.027  60.723  14.387  1.00 45.92      A16S
ATOM   8135  O3* G   A 388     130.836  61.794  13.926  1.00 45.92      A16S
ATOM   8136  P   A   A 389     130.613  62.402  12.467  1.00 37.58      A16S
ATOM   8137  O1P A   A 389     130.365  61.298  11.515  1.00 50.41      A16S
ATOM   8138  O2P A   A 389     131.749  63.310  12.241  1.00 50.41      A16S
ATOM   8139  O5* A   A 389     129.286  63.284  12.589  1.00 37.58      A16S
ATOM   8140  C5* A   A 389     128.898  64.081  11.476  1.00 37.58      A16S
ATOM   8141  C4* A   A 389     127.516  64.693  11.631  1.00 37.58      A16S
ATOM   8142  O4* A   A 389     126.526  63.794  12.183  1.00 37.58      A16S
ATOM   8143  C1* A   A 389     125.352  64.553  12.444  1.00 37.58      A16S
ATOM   8144  N9  A   A 389     124.784  64.198  13.748  1.00 50.41      A16S
ATOM   8145  C4  A   A 389     123.851  64.952  14.426  1.00 50.41      A16S
ATOM   8146  N3  A   A 389     123.304  66.115  14.033  1.00 50.41      A16S
ATOM   8147  C2  A   A 389     122.442  66.560  14.943  1.00 50.41      A16S
ATOM   8148  N1  A   A 389     122.086  66.017  16.110  1.00 50.41      A16S
ATOM   8149  C6  A   A 389     122.642  64.846  16.472  1.00 50.41      A16S
ATOM   8150  N6  A   A 389     122.263  64.303  17.628  1.00 50.41      A16S
ATOM   8151  C5  A   A 389     123.584  64.268  15.593  1.00 50.41      A16S
ATOM   8152  N7  A   A 389     124.327  63.096  15.651  1.00 50.41      A16S
ATOM   8153  C8  A   A 389     125.022  63.106  14.538  1.00 50.41      A16S
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ATOM   8154  C2* A   A 389     125.756  66.026  12.381  1.00 37.58      A16S
ATOM   8155  O2* A   A 389     125.373  66.542  11.118  1.00 37.58      A16S
ATOM   8156  C3* A   A 389     127.271  65.949  12.447  1.00 37.58      A16S
ATOM   8157  O3* A   A 389     127.732  67.125  11.811  1.00 37.58      A16S
ATOM   8158  P   C   A 390     128.634  68.160  12.633  1.00 37.01      A16S
ATOM   8159  O1P C   A 390     128.812  69.338  11.753  1.00 30.78      A16S
ATOM   8160  O2P C   A 390     129.828  67.437  13.141  1.00 30.78      A16S
ATOM   8161  O5* C   A 390     127.760  68.544  13.904  1.00 37.01      A16S
ATOM   8162  C5* C   A 390     126.490  69.163  13.752  1.00 37.01      A16S
ATOM   8163  C4* C   A 390     125.668  68.969  14.997  1.00 37.01      A16S
ATOM   8164  O4* C   A 390     125.510  67.554  15.242  1.00 37.01      A16S
ATOM   8165  C1* C   A 390     125.432  67.321  16.629  1.00 37.01      A16S
ATOM   8166  N1  C   A 390     126.492  66.378  16.989  1.00 30.78      A16S
ATOM   8167  C6  C   A 390     127.739  66.474  16.440  1.00 30.78      A16S
ATOM   8168  C2  C   A 390     126.201  65.376  17.898  1.00 30.78      A16S
ATOM   8169  O2  C   A 390     125.054  65.320  18.378  1.00 30.78      A16S
ATOM   8170  N3  C   A 390     127.166  64.486  18.229  1.00 30.78      A16S
ATOM   8171  C4  C   A 390     128.373  64.578  17.672  1.00 30.78      A16S
ATOM   8172  N4  C   A 390     129.283  63.667  17.998  1.00 30.78      A16S
ATOM   8173  C5  C   A 390     128.696  65.603  16.749  1.00 30.78      A16S
ATOM   8174  C2* C   A 390     125.533  68.669  17.341  1.00 37.01      A16S
ATOM   8175  O2* C   A 390     124.220  69.114  17.619  1.00 37.01      A16S
ATOM   8176  C3* C   A 390     126.234  69.519  16.293  1.00 37.01      A16S
ATOM   8177  O3* C   A 390     125.882  70.882  16.426  1.00 37.01      A16S
ATOM   8178  P   G   A 391     126.886  71.891  17.151  1.00 38.00      A16S
ATOM   8179  O1P G   A 391     126.451  73.246  16.733  1.00 63.63      A16S
ATOM   8180  O2P G   A 391     128.286  71.464  16.925  1.00 63.63      A16S
ATOM   8181  O5* G   A 391     126.557  71.691  18.689  1.00 38.00      A16S
ATOM   8182  C5* G   A 391     125.251  71.989  19.186  1.00 38.00      A16S
ATOM   8183  C4* G   A 391     125.113  71.480  20.586  1.00 38.00      A16S
ATOM   8184  O4* G   A 391     125.054  70.033  20.586  1.00 38.00      A16S
ATOM   8185  C1* G   A 391     125.782  69.530  21.693  1.00 38.00      A16S
ATOM   8186  N9  G   A 391     126.839  68.655  21.180  1.00 63.63      A16S
ATOM   8187  C4  G   A 391     127.613  67.784  21.912  1.00 63.63      A16S
ATOM   8188  N3  G   A 391     127.542  67.590  23.242  1.00 63.63      A16S
ATOM   8189  C2  G   A 391     128.388  66.669  23.649  1.00 63.63      A16S
ATOM   8190  N2  G   A 391     128.426  66.336  24.939  1.00 63.63      A16S
ATOM   8191  N1  G   A 391     129.254  66.002  22.823  1.00 63.63      A16S
ATOM   8192  C6  G   A 391     129.356  66.191  21.453  1.00 63.63      A16S
ATOM   8193  O6  G   A 391     130.184  65.541  20.800  1.00 63.63      A16S
ATOM   8194  C5  G   A 391     128.436  67.166  20.996  1.00 63.63      A16S
ATOM   8195  N7  G   A 391     128.192  67.640  19.717  1.00 63.63      A16S
ATOM   8196  C8  G   A 391     127.246  68.524  19.874  1.00 63.63      A16S
ATOM   8197  C2* G   A 391     126.289  70.726  22.510  1.00 38.00      A16S
ATOM   8198  O2* G   A 391     125.414  70.988  23.598  1.00 38.00      A16S
ATOM   8199  C3* G   A 391     126.293  71.837  21.463  1.00 38.00      A16S
ATOM   8200  O3* G   A 391     126.101  73.132  22.001  1.00 38.00      A16S
ATOM   8201  P   G   A 392     127.331  73.894  22.682  1.00 45.25      A16S
ATOM   8202  O1P G   A 392     126.731  75.025  23.430  1.00 51.44      A16S
ATOM   8203  O2P G   A 392     128.383  74.153  21.673  1.00 51.44      A16S
ATOM   8204  O5* G   A 392     127.909  72.846  23.726  1.00 45.25      A16S
ATOM   8205  C5* G   A 392     129.304  72.797  24.042  1.00 45.25      A16S
ATOM   8206  C4* G   A 392     129.557  71.681  25.021  1.00 45.25      A16S
ATOM   8207  O4* G   A 392     129.189  70.403  24.431  1.00 45.25      A16S
ATOM   8208  C1* G   A 392     130.075  69.394  24.886  1.00 45.25      A16S
ATOM   8209  N9  G   A 392     130.773  68.831  23.732  1.00 51.44      A16S
ATOM   8210  C4  G   A 392     131.751  67.860  23.757  1.00 51.44      A16S
ATOM   8211  N3  G   A 392     132.213  67.221  24.854  1.00 51.44      A16S
ATOM   8212  C2  G   A 392     133.162  66.356  24.556  1.00 51.44      A16S
ATOM   8213  N2  G   A 392     133.728  65.632  25.512  1.00 51.44      A16S
ATOM   8214  N1  G   A 392     133.625  66.136  23.295  1.00 51.44      A16S
ATOM   8215  C6  G   A 392     133.165  66.772  22.153  1.00 51.44      A16S
ATOM   8216  O6  G   A 392     133.653  66.487  21.058  1.00 51.44      A16S
ATOM   8217  C5  G   A 392     132.142  67.704  22.451  1.00 51.44      A16S
ATOM   8218  N7  G   A 392     131.414  68.537  21.617  1.00 51.44      A16S
ATOM   8219  C8  G   A 392     130.612  69.178  22.418  1.00 51.44      A16S
ATOM   8220  C2* G   A 392     131.040  70.050  25.876  1.00 45.25      A16S
ATOM   8221  O2* G   A 392     130.543  69.857  27.179  1.00 45.25      A16S
ATOM   8222  C3* G   A 392     130.997  71.505  25.433  1.00 45.25      A16S
ATOM   8223  O3* G   A 392     131.324  72.414  26.456  1.00 45.25      A16S
ATOM   8224  P   A   A 393     132.716  73.194  26.390  1.00 38.24      A16S
ATOM   8225  O1P A   A 393     132.650  74.389  27.279  1.00 66.07      A16S
ATOM   8226  O2P A   A 393     133.072  73.362  24.955  1.00 66.07      A16S
ATOM   8227  O5* A   A 393     133.739  72.166  27.031  1.00 38.24      A16S
ATOM   8228  C5* A   A 393     133.622  71.775  28.402  1.00 38.24      A16S
ATOM   8229  C4* A   A 393     134.397  70.509  28.643  1.00 38.24      A16S
ATOM   8230  O4* A   A 393     133.819  69.466  27.817  1.00 38.24      A16S
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ATOM   8231  C1* A   A 393     134.846  68.598  27.354  1.00 38.24      A16S
ATOM   8232  N9  A   A 393     134.937  68.721  25.903  1.00 66.07      A16S
ATOM   8233  C4  A   A 393     135.790  68.006  25.104  1.00 66.07      A16S
ATOM   8234  N3  A   A 393     136.635  67.033  25.485  1.00 66.07      A16S
ATOM   8235  C2  A   A 393     137.323  66.584  24.445  1.00 66.07      A16S
ATOM   8236  N1  A   A 393     137.275  66.979  23.165  1.00 66.07      A16S
ATOM   8237  C6  A   A 393     136.421  67.969  22.826  1.00 66.07      A16S
ATOM   8238  N6  A   A 393     136.391  68.389  21.561  1.00 66.07      A16S
ATOM   8239  C5  A   A 393     135.621  68.509  23.832  1.00 66.07      A16S
ATOM   8240  N7  A   A 393     134.646  69.494  23.818  1.00 66.07      A16S
ATOM   8241  C8  A   A 393     134.266  69.575  25.067  1.00 66.07      A16S
ATOM   8242  C2* A   A 393     136.162  69.065  27.974  1.00 38.24      A16S
ATOM   8243  O2* A   A 393     136.432  68.317  29.138  1.00 38.24      A16S
ATOM   8244  C3* A   A 393     135.867  70.534  28.241  1.00 38.24      A16S
ATOM   8245  O3* A   A 393     136.718  71.073  29.235  1.00 38.24      A16S
ATOM   8246  P   G   A 394     138.161  71.644  28.817  1.00 55.00      A16S
ATOM   8247  O1P G   A 394     138.911  71.939  30.064  1.00 58.26      A16S
ATOM   8248  O2P G   A 394     137.956  72.721  27.830  1.00 58.26      A16S
ATOM   8249  O5* G   A 394     138.864  70.412  28.090  1.00 55.00      A16S
ATOM   8250  C5* G   A 394     139.150  69.199  28.811  1.00 55.00      A16S
ATOM   8251  C4* G   A 394     140.128  68.343  28.046  1.00 55.00      A16S
ATOM   8252  O4* G   A 394     139.509  67.766  26.862  1.00 55.00      A16S
ATOM   8253  C1* G   A 394     140.489  67.618  25.842  1.00 55.00      A16S
ATOM   8254  N9  G   A 394     140.055  68.303  24.620  1.00 58.26      A16S
ATOM   8255  C4  G   A 394     140.587  68.112  23.364  1.00 58.26      A16S
ATOM   8256  N3  G   A 394     141.603  67.285  23.057  1.00 58.26      A16S
ATOM   8257  C2  G   A 394     141.896  67.318  21.774  1.00 58.26      A16S
ATOM   8258  N2  G   A 394     142.899  66.574  21.305  1.00 58.26      A16S
ATOM   8259  N1  G   A 394     141.237  68.085  20.855  1.00 58.26      A16S
ATOM   8260  C6  G   A 394     140.183  68.940  21.135  1.00 58.26      A16S
ATOM   8261  O6  G   A 394     139.653  69.585  20.209  1.00 58.26      A16S
ATOM   8262  C5  G   A 394     139.863  68.932  22.527  1.00 58.26      A16S
ATOM   8263  N7  G   A 394     138.903  69.637  23.240  1.00 58.26      A16S
ATOM   8264  C8  G   A 394     139.056  69.238  24.476  1.00 58.26      A16S
ATOM   8265  C2* G   A 394     141.813  68.150  26.392  1.00 55.00      A16S
ATOM   8266  O2* G   A 394     142.569  67.073  26.899  1.00 55.00      A16S
ATOM   8267  C3* G   A 394     141.341  69.070  27.508  1.00 55.00      A16S
ATOM   8268  O3* G   A 394     142.333  69.250  28.490  1.00 55.00      A16S
ATOM   8269  P   C   A 395     143.321  70.509  28.378  1.00 58.27      A16S
ATOM   8270  O1P C   A 395     144.233  70.481  29.556  1.00 45.97      A16S
ATOM   8271  O2P C   A 395     142.493  71.717  28.117  1.00 45.97      A16S
ATOM   8272  O5* C   A 395     144.193  70.180  27.088  1.00 58.27      A16S
ATOM   8273  C5* C   A 395     145.107  69.078  27.112  1.00 58.27      A16S
ATOM   8274  C4* C   A 395     145.868  68.994  25.820  1.00 58.27      A16S
ATOM   8275  O4* C   A 395     144.987  68.559  24.762  1.00 58.27      A16S
ATOM   8276  C1* C   A 395     145.365  69.180  23.548  1.00 58.27      A16S
ATOM   8277  N1  C   A 395     144.228  69.974  23.053  1.00 45.97      A16S
ATOM   8278  C6  C   A 395     143.248  70.405  23.899  1.00 45.97      A16S
ATOM   8279  C2  C   A 395     144.165  70.279  21.694  1.00 45.97      A16S
ATOM   8280  O2  C   A 395     145.061  69.879  20.947  1.00 45.97      A16S
ATOM   8281  N3  C   A 395     143.133  70.997  21.227  1.00 45.97      A16S
ATOM   8282  C4  C   A 395     142.184  71.409  22.053  1.00 45.97      A16S
ATOM   8283  N4  C   A 395     141.184  72.115  21.538  1.00 45.97      A16S
ATOM   8284  C5  C   A 395     142.216  71.116  23.443  1.00 45.97      A16S
ATOM   8285  C2* C   A 395     146.600  70.033  23.827  1.00 58.27      A16S
ATOM   8286  O2* C   A 395     147.761  69.283  23.542  1.00 58.27      A16S
ATOM   8287  C3* C   A 395     146.456  70.294  25.314  1.00 58.27      A16S
ATOM   8288  O3* C   A 395     147.695  70.600  25.913  1.00 58.27      A16S
ATOM   8289  P   G   A 396     148.066  72.134  26.172  1.00 55.27      A16S
ATOM   8290  O1P G   A 396     149.353  72.198  26.914  1.00 39.66      A16S
ATOM   8291  O2P G   A 396     146.858  72.809  26.715  1.00 39.66      A16S
ATOM   8292  O5* G   A 396     148.346  72.701  24.718  1.00 55.27      A16S
ATOM   8293  C5* G   A 396     149.542  72.329  24.031  1.00 55.27      A16S
ATOM   8294  C4* G   A 396     149.666  73.095  22.747  1.00 55.27      A16S
ATOM   8295  O4* G   A 396     148.672  72.635  21.807  1.00 55.27      A16S
ATOM   8296  C1* G   A 396     148.263  73.706  20.993  1.00 55.27      A16S
ATOM   8297  N9  G   A 396     146.816  73.837  21.107  1.00 39.66      A16S
ATOM   8298  C4  G   A 396     145.949  74.277  20.135  1.00 39.66      A16S
ATOM   8299  N3  G   A 396     146.286  74.672  18.893  1.00 39.66      A16S
ATOM   8300  C2  G   A 396     145.237  75.083  18.210  1.00 39.66      A16S
ATOM   8301  N2  G   A 396     145.395  75.562  16.972  1.00 39.66      A16S
ATOM   8302  N1  G   A 396     143.955  75.071  18.697  1.00 39.66      A16S
ATOM   8303  C6  G   A 396     143.587  74.661  19.971  1.00 39.66      A16S
ATOM   8304  O6  G   A 396     142.402  74.703  20.317  1.00 39.66      A16S
ATOM   8305  C5  G   A 396     144.700  74.241  20.716  1.00 39.66      A16S
ATOM   8306  N7  G   A 396     144.775  73.774  22.016  1.00 39.66      A16S
ATOM   8307  C8  G   A 396     146.046  73.545  22.205  1.00 39.66      A16S
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ATOM   8308  C2* G   A 396     149.063  74.938  21.414  1.00 55.27      A16S
ATOM   8309  O2* G   A 396     150.218  74.962  20.607  1.00 55.27      A16S
ATOM   8310  C3* G   A 396     149.457  74.592  22.841  1.00 55.27      A16S
ATOM   8311  O3* G   A 396     150.680  75.226  23.229  1.00 55.27      A16S
ATOM   8312  P   A   A 397     150.687  76.282  24.452  1.00 56.02      A16S
ATOM   8313  O1P A   A 397     152.116  76.583  24.748  1.00 50.75      A16S
ATOM   8314  O2P A   A 397     149.794  75.784  25.536  1.00 50.75      A16S
ATOM   8315  O5* A   A 397     149.996  77.583  23.854  1.00 56.02      A16S
ATOM   8316  C5* A   A 397     150.632  78.300  22.806  1.00 56.02      A16S
ATOM   8317  C4* A   A 397     149.769  79.429  22.332  1.00 56.02      A16S
ATOM   8318  O4* A   A 397     149.573  80.372  23.413  1.00 56.02      A16S
ATOM   8319  C1* A   A 397     149.653  81.693  22.915  1.00 56.02      A16S
ATOM   8320  N9  A   A 397     150.738  82.397  23.610  1.00 50.75      A16S
ATOM   8321  C4  A   A 397     152.044  81.996  23.786  1.00 50.75      A16S
ATOM   8322  N3  A   A 397     152.611  80.855  23.374  1.00 50.75      A16S
ATOM   8323  C2  A   A 397     153.901  80.820  23.711  1.00 50.75      A16S
ATOM   8324  N1  A   A 397     154.635  81.729  24.359  1.00 50.75      A16S
ATOM   8325  C6  A   A 397     154.037  82.869  24.754  1.00 50.75      A16S
ATOM   8326  N6  A   A 397     154.775  83.788  25.380  1.00 50.75      A16S
ATOM   8327  C5  A   A 397     152.668  83.022  24.470  1.00 50.75      A16S
ATOM   8328  N7  A   A 397     151.773  84.044  24.739  1.00 50.75      A16S
ATOM   8329  C8  A   A 397     150.647  83.624  24.213  1.00 50.75      A16S
ATOM   8330  C2* A   A 397     149.841  81.603  21.398  1.00 56.02      A16S
ATOM   8331  O2* A   A 397     148.592  81.633  20.744  1.00 56.02      A16S
ATOM   8332  C3* A   A 397     150.461  80.230  21.251  1.00 56.02      A16S
ATOM   8333  O3* A   A 397     150.230  79.655  19.984  1.00 56.02      A16S
ATOM   8334  P   C   A 398     151.026  78.327  19.573  1.00 60.88      A16S
ATOM   8335  O1P C   A 398     150.268  77.222  20.151  1.00 31.11      A16S
ATOM   8336  O2P C   A 398     152.465  78.479  19.895  1.00 31.11      A16S
ATOM   8337  O5* C   A 398     150.827  78.223  18.004  1.00 60.88      A16S
ATOM   8338  C5* C   A 398     151.241  79.289  17.147  1.00 60.88      A16S
ATOM   8339  C4* C   A 398     150.058  79.851  16.411  1.00 60.88      A16S
ATOM   8340  O4* C   A 398     149.033  78.830  16.312  1.00 60.88      A16S
ATOM   8341  C1* C   A 398     147.763  79.441  16.325  1.00 60.88      A16S
ATOM   8342  N1  C   A 398     146.982  78.931  17.460  1.00 31.11      A16S
ATOM   8343  C6  C   A 398     147.579  78.433  18.580  1.00 31.11      A16S
ATOM   8344  C2  C   A 398     145.593  78.969  17.365  1.00 31.11      A16S
ATOM   8345  O2  C   A 398     145.072  79.442  16.336  1.00 31.11      A16S
ATOM   8346  N3  C   A 398     144.846  78.501  18.378  1.00 31.11      A16S
ATOM   8347  C4  C   A 398     145.432  78.009  19.454  1.00 31.11      A16S
ATOM   8348  N4  C   A 398     144.643  77.545  20.414  1.00 31.11      A16S
ATOM   8349  C5  C   A 398     146.850  77.965  19.590  1.00 31.11      A16S
ATOM   8350  C2* C   A 398     147.970  80.945  16.418  1.00 60.88      A16S
ATOM   8351  O2* C   A 398     147.952  81.441  15.095  1.00 60.88      A16S
ATOM   8352  C3* C   A 398     149.348  81.023  17.057  1.00 60.88      A16S
ATOM   8353  O3* C   A 398     149.996  82.239  16.730  1.00 60.88      A16S
ATOM   8354  P   G   A 399     149.630  83.582  17.534  1.00 45.11      A16S
ATOM   8355  O1P G   A 399     150.519  84.656  17.009  1.00 55.48      A16S
ATOM   8356  O2P G   A 399     149.612  83.297  18.992  1.00 55.48      A16S
ATOM   8357  O5* G   A 399     148.143  83.918  17.084  1.00 45.11      A16S
ATOM   8358  C5* G   A 399     147.891  84.426  15.784  1.00 45.11      A16S
ATOM   8359  C4* G   A 399     146.430  84.705  15.613  1.00 45.11      A16S
ATOM   8360  O4* G   A 399     145.684  83.488  15.830  1.00 45.11      A16S
ATOM   8361  C1* G   A 399     144.422  83.798  16.383  1.00 45.11      A16S
ATOM   8362  N9  G   A 399     144.289  83.110  17.661  1.00 55.48      A16S
ATOM   8363  C4  G   A 399     143.125  82.924  18.373  1.00 55.48      A16S
ATOM   8364  N3  G   A 399     141.903  83.381  18.033  1.00 55.48      A16S
ATOM   8365  C2  G   A 399     140.982  83.014  18.907  1.00 55.48      A16S
ATOM   8366  N2  G   A 399     139.712  83.380  18.736  1.00 55.48      A16S
ATOM   8367  N1  G   A 399     141.239  82.261  20.015  1.00 55.48      A16S
ATOM   8368  C6  G   A 399     142.489  81.780  20.380  1.00 55.48      A16S
ATOM   8369  O6  G   A 399     142.612  81.091  21.395  1.00 55.48      A16S
ATOM   8370  C5  G   A 399     143.485  82.172  19.467  1.00 55.48      A16S
ATOM   8371  N7  G   A 399     144.850  81.918  19.467  1.00 55.48      A16S
ATOM   8372  C8  G   A 399     145.286  82.498  18.382  1.00 55.48      A16S
ATOM   8373  C2* G   A 399     144.341  85.312  16.515  1.00 45.11      A16S
ATOM   8374  O2* G   A 399     143.719  85.808  15.347  1.00 45.11      A16S
ATOM   8375  C3* G   A 399     145.811  85.691  16.580  1.00 45.11      A16S
ATOM   8376  O3* G   A 399     146.037  87.042  16.193  1.00 45.11      A16S
ATOM   8377  P   C   A 400     146.249  88.166  17.332  1.00 43.99      A16S
ATOM   8378  O1P C   A 400     146.838  89.353  16.667  1.00 54.51      A16S
ATOM   8379  O2P C   A 400     146.976  87.543  18.471  1.00 54.51      A16S
ATOM   8380  O5* C   A 400     144.763  88.522  17.780  1.00 43.99      A16S
ATOM   8381  C5* C   A 400     143.838  89.033  16.825  1.00 43.99      A16S
ATOM   8382  C4* C   A 400     142.444  89.031  17.383  1.00 43.99      A16S
ATOM   8383  O4* C   A 400     142.001  87.671  17.583  1.00 43.99      A16S
ATOM   8384  C1* C   A 400     141.156  87.607  18.721  1.00 43.99      A16S
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ATOM   8385  N1  C   A 400     141.784  86.735  19.727  1.00 54.51      A16S
ATOM   8386  C6  C   A 400     143.136  86.547  19.751  1.00 54.51      A16S
ATOM   8387  C2  C   A 400     140.971  86.102  20.660  1.00 54.51      A16S
ATOM   8388  O2  C   A 400     139.749  86.303  20.622  1.00 54.51      A16S
ATOM   8389  N3  C   A 400     141.531  85.290  21.577  1.00 54.51      A16S
ATOM   8390  C4  C   A 400     142.849  85.099  21.578  1.00 54.51      A16S
ATOM   8391  N4  C   A 400     143.360  84.266  22.479  1.00 54.51      A16S
ATOM   8392  C5  C   A 400     143.703  85.746  20.649  1.00 54.51      A16S
ATOM   8393  C2* C   A 400     140.986  89.026  19.245  1.00 43.99      A16S
ATOM   8394  O2* C   A 400     139.822  89.567  18.659  1.00 43.99      A16S
ATOM   8395  C3* C   A 400     142.265  89.676  18.741  1.00 43.99      A16S
ATOM   8396  O3* C   A 400     142.188  91.082  18.674  1.00 43.99      A16S
ATOM   8397  P   C   A 401     142.772  91.950  19.889  1.00 50.11      A16S
ATOM   8398  O1P C   A 401     142.745  93.363  19.416  1.00 46.34      A16S
ATOM   8399  O2P C   A 401     144.053  91.367  20.388  1.00 46.34      A16S
ATOM   8400  O5* C   A 401     141.675  91.749  21.020  1.00 50.11      A16S
ATOM   8401  C5* C   A 401     140.361  92.276  20.841  1.00 50.11      A16S
ATOM   8402  C4* C   A 401     139.483  91.888  21.990  1.00 50.11      A16S
ATOM   8403  O4* C   A 401     139.265  90.454  21.967  1.00 50.11      A16S
ATOM   8404  C1* C   A 401     139.161  89.968  23.294  1.00 50.11      A16S
ATOM   8405  N1  C   A 401     140.302  89.064  23.558  1.00 46.34      A16S
ATOM   8406  C6  C   A 401     141.484  89.215  22.885  1.00 46.34      A16S
ATOM   8407  C2  C   A 401     140.169  88.049  24.533  1.00 46.34      A16S
ATOM   8408  O2  C   A 401     139.093  87.923  25.136  1.00 46.34      A16S
ATOM   8409  N3  C   A 401     141.226  87.243  24.794  1.00 46.34      A16S
ATOM   8410  C4  C   A 401     142.380  87.424  24.145  1.00 46.34      A16S
ATOM   8411  N4  C   A 401     143.407  86.638  24.461  1.00 46.34      A16S
ATOM   8412  C5  C   A 401     142.536  88.428  23.149  1.00 46.34      A16S
ATOM   8413  C2* C   A 401     139.230  91.185  24.215  1.00 50.11      A16S
ATOM   8414  O2* C   A 401     137.931  91.702  24.426  1.00 50.11      A16S
ATOM   8415  C3* C   A 401     140.044  92.145  23.373  1.00 50.11      A16S
ATOM   8416  O3* C   A 401     139.899  93.474  23.820  1.00 50.11      A16S
ATOM   8417  P   G   A 402     140.808  93.992  25.040  1.00 50.18      A16S
ATOM   8418  O1P G   A 402     140.482  95.429  25.205  1.00 53.45      A16S
ATOM   8419  O2P G   A 402     142.219  93.579  24.824  1.00 53.45      A16S
ATOM   8420  O5* G   A 402     140.256  93.186  26.299  1.00 50.18      A16S
ATOM   8421  C5* G   A 402     138.898  93.356  26.740  1.00 50.18      A16S
ATOM   8422  C4* G   A 402     138.646  92.560  27.997  1.00 50.18      A16S
ATOM   8423  O4* G   A 402     138.655  91.143  27.685  1.00 50.18      A16S
ATOM   8424  C1* G   A 402     139.241  90.417  28.755  1.00 50.18      A16S
ATOM   8425  N9  G   A 402     140.484  89.808  28.283  1.00 53.45      A16S
ATOM   8426  C4  G   A 402     141.149  88.760  28.872  1.00 53.45      A16S
ATOM   8427  N3  G   A 402     140.754  88.094  29.973  1.00 53.45      A16S
ATOM   8428  C2  G   A 402     141.613  87.157  30.317  1.00 53.45      A16S
ATOM   8429  N2  G   A 402     141.387  86.425  31.411  1.00 53.45      A16S
ATOM   8430  N1  G   A 402     142.758  86.875  29.622  1.00 53.45      A16S
ATOM   8431  C6  G   A 402     143.180  87.542  28.482  1.00 53.45      A16S
ATOM   8432  O6  G   A 402     144.232  87.209  27.933  1.00 53.45      A16S
ATOM   8433  C5  G   A 402     142.277  88.566  28.112  1.00 53.45      A16S
ATOM   8434  N7  G   A 402     142.322  89.468  27.060  1.00 53.45      A16S
ATOM   8435  C8  G   A 402     141.237  90.178  27.196  1.00 53.45      A16S
ATOM   8436  C2* G   A 402     139.540  91.415  29.873  1.00 50.18      A16S
ATOM   8437  O2* G   A 402     138.487  91.438  30.820  1.00 50.18      A16S
ATOM   8438  C3* G   A 402     139.696  92.708  29.084  1.00 50.18      A16S
ATOM   8439  O3* G   A 402     139.562  93.871  29.885  1.00 50.18      A16S
ATOM   8440  P   C   A 403     140.878  94.519  30.529  1.00 52.32      A16S
ATOM   8441  O1P C   A 403     140.453  95.702  31.306  1.00 59.79      A16S
ATOM   8442  O2P C   A 403     141.887  94.664  29.456  1.00 59.79      A16S
ATOM   8443  O5* C   A 403     141.411  93.389  31.516  1.00 52.32      A16S
ATOM   8444  C5* C   A 403     140.571  92.906  32.569  1.00 52.32      A16S
ATOM   8445  C4* C   A 403     141.307  91.931  33.453  1.00 52.32      A16S
ATOM   8446  O4* C   A 403     141.442  90.640  32.798  1.00 52.32      A16S
ATOM   8447  C1* C   A 403     142.588  89.972  33.316  1.00 52.32      A16S
ATOM   8448  N1  C   A 403     143.526  89.615  32.228  1.00 59.79      A16S
ATOM   8449  C6  C   A 403     143.558  90.302  31.053  1.00 59.79      A16S
ATOM   8450  C2  C   A 403     144.432  88.576  32.453  1.00 59.79      A16S
ATOM   8451  O2  C   A 403     144.337  87.917  33.496  1.00 59.79      A16S
ATOM   8452  N3  C   A 403     145.379  88.310  31.537  1.00 59.79      A16S
ATOM   8453  C4  C   A 403     145.431  89.017  30.419  1.00 59.79      A16S
ATOM   8454  N4  C   A 403     146.407  88.745  29.561  1.00 59.79      A16S
ATOM   8455  C5  C   A 403     144.490  90.040  30.133  1.00 59.79      A16S
ATOM   8456  C2* C   A 403     143.275  90.921  34.301  1.00 52.32      A16S
ATOM   8457  O2* C   A 403     142.925  90.553  35.618  1.00 52.32      A16S
ATOM   8458  C3* C   A 403     142.726  92.277  33.868  1.00 52.32      A16S
ATOM   8459  O3* C   A 403     142.828  93.248  34.898  1.00 52.32      A16S
ATOM   8460  P   U   A 404     144.233  94.003  35.120  1.00 47.38      A16S
ATOM   8461  O1P U   A 404     144.039  95.158  36.034  1.00 68.24      A16S
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ATOM	8462	O2P	U	A	404	144.864	94.226	33.794	1.00	68.24	A16S
ATOM	8463	O5*	U	A	404	145.109	92.913	35.879	1.00	47.38	A16S
ATOM	8464	C5*	U	A	404	144.661	92.341	37.111	1.00	47.38	A16S
ATOM	8465	C4*	U	A	404	145.660	91.332	37.608	1.00	47.38	A16S
ATOM	8466	O4*	U	A	404	145.721	90.199	36.710	1.00	47.38	A16S
ATOM	8467	C1*	U	A	404	147.032	89.664	36.716	1.00	47.38	A16S
ATOM	8468	N1	U	A	404	147.533	89.612	35.334	1.00	68.24	A16S
ATOM	8469	C6	U	A	404	146.897	90.277	34.315	1.00	68.24	A16S
ATOM	8470	C2	U	A	404	148.680	88.880	35.092	1.00	68.24	A16S
ATOM	8471	O2	U	A	404	149.249	88.236	35.948	1.00	68.24	A16S
ATOM	8472	N3	U	A	404	149.132	88.924	33.805	1.00	68.24	A16S
ATOM	8473	C4	U	A	404	148.562	89.592	32.750	1.00	68.24	A16S
ATOM	8474	O4	U	A	404	149.165	89.649	31.681	1.00	68.24	A16S
ATOM	8475	C5	U	A	404	147.356	90.286	33.065	1.00	68.24	A16S
ATOM	8476	C2*	U	A	404	147.893	90.530	37.642	1.00	47.38	A16S
ATOM	8477	O2*	U	A	404	148.003	89.898	38.898	1.00	47.38	A16S
ATOM	8478	C3*	U	A	404	147.090	91.820	37.716	1.00	47.38	A16S
ATOM	8479	O3*	U	A	404	147.269	92.461	38.962	1.00	47.38	A16S
ATOM	8480	P	U	A	405	148.507	93.452	39.181	1.00	44.77	A16S
ATOM	8481	O1P	U	A	405	148.293	94.100	40.506	1.00	66.75	A16S
ATOM	8482	O2P	U	A	405	148.684	94.301	37.982	1.00	66.75	A16S
ATOM	8483	O5*	U	A	405	149.745	92.461	39.273	1.00	44.77	A16S
ATOM	8484	C5*	U	A	405	149.835	91.505	40.333	1.00	44.77	A16S
ATOM	8485	C4*	U	A	405	151.118	90.732	40.218	1.00	44.77	A16S
ATOM	8486	O4*	U	A	405	151.038	89.817	39.097	1.00	44.77	A16S
ATOM	8487	C1*	U	A	405	152.292	89.760	38.445	1.00	44.77	A16S
ATOM	8488	N1	U	A	405	152.115	90.193	37.047	1.00	66.75	A16S
ATOM	8489	C6	U	A	405	151.033	90.956	36.660	1.00	66.75	A16S
ATOM	8490	C2	U	A	405	153.070	89.808	36.122	1.00	66.75	A16S
ATOM	8491	O2	U	A	405	154.044	89.143	36.414	1.00	66.75	A16S
ATOM	8492	N3	U	A	405	152.843	90.235	34.836	1.00	66.75	A16S
ATOM	8493	C4	U	A	405	151.785	90.993	34.383	1.00	66.75	A16S
ATOM	8494	O4	U	A	405	151.720	91.296	33.189	1.00	66.75	A16S
ATOM	8495	C5	U	A	405	150.841	91.356	35.396	1.00	66.75	A16S
ATOM	8496	C2*	U	A	405	153.277	90.628	39.240	1.00	44.77	A16S
ATOM	8497	O2*	U	A	405	154.004	89.839	40.161	1.00	44.77	A16S
ATOM	8498	C3*	U	A	405	152.343	91.591	39.957	1.00	44.77	A16S
ATOM	8499	O3*	U	A	405	152.912	92.049	41.178	1.00	44.77	A16S
ATOM	8500	P	G	A	406	154.033	93.200	41.164	1.00	54.12	A16S
ATOM	8501	O1P	G	A	406	154.624	93.261	39.807	1.00	63.58	A16S
ATOM	8502	O2P	G	A	406	154.920	92.977	42.324	1.00	63.58	A16S
ATOM	8503	O5*	G	A	406	153.192	94.529	41.419	1.00	54.12	A16S
ATOM	8504	C5*	G	A	406	152.232	94.948	40.454	1.00	54.12	A16S
ATOM	8505	C4*	G	A	406	150.940	95.359	41.113	1.00	54.12	A16S
ATOM	8506	O4*	G	A	406	150.585	94.395	42.129	1.00	54.12	A16S
ATOM	8507	C1*	G	A	406	149.862	95.038	43.163	1.00	54.12	A16S
ATOM	8508	N9	G	A	406	150.610	94.894	44.408	1.00	63.58	A16S
ATOM	8509	C4	G	A	406	150.193	95.280	45.658	1.00	63.58	A16S
ATOM	8510	N3	G	A	406	149.002	95.831	45.956	1.00	63.58	A16S
ATOM	8511	C2	G	A	406	148.903	96.127	47.231	1.00	63.58	A16S
ATOM	8512	N2	G	A	406	147.793	96.702	47.681	1.00	63.58	A16S
ATOM	8513	N1	G	A	406	149.890	95.890	48.155	1.00	63.58	A16S
ATOM	8514	C6	G	A	406	151.131	95.322	47.873	1.00	63.58	A16S
ATOM	8515	O6	G	A	406	151.970	95.162	48.781	1.00	63.58	A16S
ATOM	8516	C5	G	A	406	151.248	95.003	46.497	1.00	63.58	A16S
ATOM	8517	N7	G	A	406	152.301	94.432	45.794	1.00	63.58	A16S
ATOM	8518	C8	G	A	406	151.875	94.380	44.563	1.00	63.58	A16S
ATOM	8519	C2*	G	A	406	149.713	96.509	42.775	1.00	54.12	A16S
ATOM	8520	O2*	G	A	406	148.468	96.681	42.129	1.00	54.12	A16S
ATOM	8521	C3*	G	A	406	150.896	96.698	41.834	1.00	54.12	A16S
ATOM	8522	O3*	G	A	406	150.677	97.774	40.923	1.00	54.12	A16S
ATOM	8523	P	G	A	407	151.268	99.231	41.253	1.00	60.16	A16S
ATOM	8524	O1P	G	A	407	151.192	100.040	40.011	1.00	78.09	A16S
ATOM	8525	O2P	G	A	407	152.573	99.075	41.939	1.00	78.09	A16S
ATOM	8526	O5*	G	A	407	150.207	99.818	42.285	1.00	60.16	A16S
ATOM	8527	C5*	G	A	407	148.863	100.102	41.863	1.00	60.16	A16S
ATOM	8528	C4*	G	A	407	148.057	100.639	43.015	1.00	60.16	A16S
ATOM	8529	O4*	G	A	407	147.876	99.590	44.000	1.00	60.16	A16S
ATOM	8530	C1*	G	A	407	147.948	100.140	45.301	1.00	60.16	A16S
ATOM	8531	N9	G	A	407	149.094	99.533	45.967	1.00	78.09	A16S
ATOM	8532	C4	G	A	407	149.419	99.621	47.298	1.00	78.09	A16S
ATOM	8533	N3	G	A	407	148.741	100.310	48.238	1.00	78.09	A16S
ATOM	8534	C2	G	A	407	149.300	100.195	49.430	1.00	78.09	A16S
ATOM	8535	N2	G	A	407	148.762	100.822	50.481	1.00	78.09	A16S
ATOM	8536	N1	G	A	407	150.428	99.456	49.677	1.00	78.09	A16S
ATOM	8537	C6	G	A	407	151.137	98.738	48.723	1.00	78.09	A16S
ATOM	8538	O6	G	A	407	152.135	98.094	49.051	1.00	78.09	A16S

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ATOM   8539  C5  G   A 407     150.560  98.863  47.445  1.00 78.09      A16S
ATOM   8540  N7  G   A 407     150.954  98.324  46.231  1.00 78.09      A16S
ATOM   8541  C8  G   A 407     150.059  98.749  45.385  1.00 78.09      A16S
ATOM   8542  C2* G   A 407     148.065 101.659  45.155  1.00 60.16      A16S
ATOM   8543  O2* G   A 407     146.772 102.229  45.215  1.00 60.16      A16S
ATOM   8544  C3* G   A 407     148.693 101.791  43.773  1.00 60.16      A16S
ATOM   8545  O3* G   A 407     148.406 103.041  43.157  1.00 60.16      A16S
ATOM   8546  P   A   A 408     149.543 104.177  43.099  1.00 65.50      A16S
ATOM   8547  O1P A   A 408     149.101 105.213  42.134  1.00 81.51      A16S
ATOM   8548  O2P A   A 408     150.871 103.532  42.927  1.00 81.51      A16S
ATOM   8549  O5* A   A 408     149.523 104.820  44.554  1.00 65.50      A16S
ATOM   8550  C5* A   A 408     148.465 105.704  44.963  1.00 65.50      A16S
ATOM   8551  C4* A   A 408     148.622 106.064  46.421  1.00 65.50      A16S
ATOM   8552  O4* A   A 408     148.379 104.894  47.246  1.00 65.50      A16S
ATOM   8553  C1* A   A 408     149.251 104.909  48.363  1.00 65.50      A16S
ATOM   8554  N9  A   A 408     150.180 103.787  48.241  1.00 81.51      A16S
ATOM   8555  C4  A   A 408     151.020 103.314  49.222  1.00 81.51      A16S
ATOM   8556  N3  A   A 408     151.124 103.747  50.490  1.00 81.51      A16S
ATOM   8557  C2  A   A 408     152.073 103.075  51.141  1.00 81.51      A16S
ATOM   8558  N1  A   A 408     152.870 102.096  50.701  1.00 81.51      A16S
ATOM   8559  C6  A   A 408     152.736 101.684  49.423  1.00 81.51      A16S
ATOM   8560  N6  A   A 408     153.533 100.714  48.979  1.00 81.51      A16S
ATOM   8561  C5  A   A 408     151.762 102.312  48.630  1.00 81.51      A16S
ATOM   8562  N7  A   A 408     151.377 102.131  47.311  1.00 81.51      A16S
ATOM   8563  C8  A   A 408     150.434 103.021  47.134  1.00 81.51      A16S
ATOM   8564  C2* A   A 408     150.024 106.226  48.316  1.00 65.50      A16S
ATOM   8565  O2* A   A 408     149.336 107.210  49.067  1.00 65.50      A16S
ATOM   8566  C3* A   A 408     150.005 106.537  46.832  1.00 65.50      A16S
ATOM   8567  O3* A   A 408     150.209 107.913  46.591  1.00 65.50      A16S
ATOM   8568  P   G   A 409     151.707 108.470  46.476  1.00 76.37      A16S
ATOM   8569  O1P G   A 409     151.620 109.922  46.239  1.00 75.51      A16S
ATOM   8570  O2P G   A 409     152.472 107.617  45.544  1.00 75.51      A16S
ATOM   8571  O5* G   A 409     152.335 108.223  47.916  1.00 76.37      A16S
ATOM   8572  C5* G   A 409     151.779 108.855  49.077  1.00 76.37      A16S
ATOM   8573  C4* G   A 409     152.528 108.430  50.313  1.00 76.37      A16S
ATOM   8574  O4* G   A 409     152.485 106.987  50.434  1.00 76.37      A16S
ATOM   8575  C1* G   A 409     153.673 106.526  51.051  1.00 76.37      A16S
ATOM   8576  N9  G   A 409     154.291 105.518  50.196  1.00 75.51      A16S
ATOM   8577  C4  G   A 409     155.336 104.691  50.532  1.00 75.51      A16S
ATOM   8578  N3  G   A 409     155.978 104.671  51.712  1.00 75.51      A16S
ATOM   8579  C2  G   A 409     156.944 103.774  51.731  1.00 75.51      A16S
ATOM   8580  N2  G   A 409     157.693 103.625  52.830  1.00 75.51      A16S
ATOM   8581  N1  G   A 409     157.252 102.959  50.675  1.00 75.51      A16S
ATOM   8582  C6  G   A 409     156.606 102.968  49.450  1.00 75.51      A16S
ATOM   8583  O6  G   A 409     156.975 102.203  48.557  1.00 75.51      A16S
ATOM   8584  C5  G   A 409     155.568 103.923  49.418  1.00 75.51      A16S
ATOM   8585  N7  G   A 409     154.687 104.254  48.402  1.00 75.51      A16S
ATOM   8586  C8  G   A 409     153.951 105.204  48.907  1.00 75.51      A16S
ATOM   8587  C2* G   A 409     154.561 107.739  51.326  1.00 76.37      A16S
ATOM   8588  O2* G   A 409     154.378 108.121  52.673  1.00 76.37      A16S
ATOM   8589  C3* G   A 409     154.006 108.768  50.349  1.00 76.37      A16S
ATOM   8590  O3* G   A 409     154.201 110.092  50.821  1.00 76.37      A16S
ATOM   8591  P   G   A 410     155.473 110.931  50.320  1.00 68.97      A16S
ATOM   8592  O1P G   A 410     155.557 112.134  51.191  1.00100.70      A16S
ATOM   8593  O2P G   A 410     155.374 111.102  48.852  1.00100.70      A16S
ATOM   8594  O5* G   A 410     156.703 109.966  50.637  1.00 68.97      A16S
ATOM   8595  C5* G   A 410     157.037 109.637  51.991  1.00 68.97      A16S
ATOM   8596  C4* G   A 410     158.105 108.570  52.034  1.00 68.97      A16S
ATOM   8597  O4* G   A 410     157.589 107.298  51.564  1.00 68.97      A16S
ATOM   8598  C1* G   A 410     158.625 106.576  50.913  1.00 68.97      A16S
ATOM   8599  N9  G   A 410     158.214 106.311  49.531  1.00100.70      A16S
ATOM   8600  C4  G   A 410     158.665 105.292  48.715  1.00100.70      A16S
ATOM   8601  N3  G   A 410     159.553 104.337  49.055  1.00100.70      A16S
ATOM   8602  C2  G   A 410     159.788 103.505  48.057  1.00100.70      A16S
ATOM   8603  N2  G   A 410     160.641 102.490  48.220  1.00100.70      A16S
ATOM   8604  N1  G   A 410     159.205 103.601  46.824  1.00100.70      A16S
ATOM   8605  C6  G   A 410     158.289 104.567  46.446  1.00100.70      A16S
ATOM   8606  O6  G   A 410     157.824 104.554  45.299  1.00100.70      A16S
ATOM   8607  C5  G   A 410     158.020 105.473  47.511  1.00100.70      A16S
ATOM   8608  N7  G   A 410     157.173 106.572  47.566  1.00100.70      A16S
ATOM   8609  C8  G   A 410     157.317 107.034  48.779  1.00100.70      A16S
ATOM   8610  C2* G   A 410     159.902 107.422  50.996  1.00 68.97      A16S
ATOM   8611  O2* G   A 410     160.685 107.020  52.102  1.00 68.97      A16S
ATOM   8612  C3* G   A 410     159.337 108.823  51.186  1.00 68.97      A16S
ATOM   8613  O3* G   A 410     160.252 109.673  51.847  1.00 68.97      A16S
ATOM   8614  P   A   A 411     160.983 110.835  51.025  1.00 87.26      A16S
ATOM   8615  O1P A   A 411     160.700 112.107  51.728  1.00 90.95      A16S
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ATOM   8616  O2P A   A 411     160.639 110.709  49.591  1.00 90.95      A16S
ATOM   8617  O5* A   A 411     162.524 110.470  51.185  1.00 87.26      A16S
ATOM   8618  C5* A   A 411     163.214 110.647  52.445  1.00 87.26      A16S
ATOM   8619  C4* A   A 411     164.663 110.988  52.191  1.00 87.26      A16S
ATOM   8620  O4* A   A 411     165.273 109.866  51.506  1.00 87.26      A16S
ATOM   8621  C1* A   A 411     166.087 110.332  50.445  1.00 87.26      A16S
ATOM   8622  N9  A   A 411     165.517 109.807  49.197  1.00 90.95      A16S
ATOM   8623  C4  A   A 411     165.669 108.526  48.724  1.00 90.95      A16S
ATOM   8624  N3  A   A 411     166.359 107.524  49.293  1.00 90.95      A16S
ATOM   8625  C2  A   A 411     166.301 106.426  48.541  1.00 90.95      A16S
ATOM   8626  N1  A   A 411     165.672 106.226  47.378  1.00 90.95      A16S
ATOM   8627  C6  A   A 411     164.975 107.249  46.840  1.00 90.95      A16S
ATOM   8628  N6  A   A 411     164.325 107.043  45.693  1.00 90.95      A16S
ATOM   8629  C5  A   A 411     164.967 108.475  47.534  1.00 90.95      A16S
ATOM   8630  N7  A   A 411     164.371 109.698  47.261  1.00 90.95      A16S
ATOM   8631  C8  A   A 411     164.727 110.453  48.272  1.00 90.95      A16S
ATOM   8632  C2* A   A 411     166.154 111.864  50.544  1.00 87.26      A16S
ATOM   8633  O2* A   A 411     167.296 112.274  51.270  1.00 87.26      A16S
ATOM   8634  C3* A   A 411     164.852 112.185  51.267  1.00 87.26      A16S
ATOM   8635  O3* A   A 411     164.909 113.403  52.005  1.00 87.26      A16S
ATOM   8636  P   A   A 412     164.270 114.751  51.391  1.00 84.01      A16S
ATOM   8637  O1P A   A 412     164.233 115.761  52.480  1.00199.65      A16S
ATOM   8638  O2P A   A 412     163.017 114.412  50.663  1.00199.65      A16S
ATOM   8639  O5* A   A 412     165.348 115.222  50.324  1.00 84.01      A16S
ATOM   8640  C5* A   A 412     166.753 115.191  50.630  1.00 84.01      A16S
ATOM   8641  C4* A   A 412     167.553 115.147  49.356  1.00 84.01      A16S
ATOM   8642  O4* A   A 412     167.143 116.220  48.495  1.00 84.01      A16S
ATOM   8643  C1* A   A 412     168.146 116.404  47.535  1.00 84.01      A16S
ATOM   8644  N9  A   A 412     168.054 117.764  47.016  1.00199.65      A16S
ATOM   8645  C4  A   A 412     167.578 118.077  45.767  1.00199.65      A16S
ATOM   8646  N3  A   A 412     167.145 117.221  44.823  1.00199.65      A16S
ATOM   8647  C2  A   A 412     166.746 117.879  43.741  1.00199.65      A16S
ATOM   8648  N1  A   A 412     166.730 119.196  43.509  1.00199.65      A16S
ATOM   8649  C6  A   A 412     167.172 120.030  44.479  1.00199.65      A16S
ATOM   8650  N6  A   A 412     167.155 121.345  44.248  1.00199.65      A16S
ATOM   8651  C5  A   A 412     167.624 119.454  45.680  1.00199.65      A16S
ATOM   8652  N7  A   A 412     168.132 120.003  46.851  1.00199.65      A16S
ATOM   8653  C8  A   A 412     168.374 118.961  47.609  1.00199.65      A16S
ATOM   8654  C2* A   A 412     169.477 115.934  48.138  1.00 84.01      A16S
ATOM   8655  O2* A   A 412     170.089 114.997  47.274  1.00 84.01      A16S
ATOM   8656  C3* A   A 412     169.055 115.333  49.489  1.00 84.01      A16S
ATOM   8657  O3* A   A 412     169.611 114.039  49.684  1.00 84.01      A16S
ATOM   8658  P   G   A 413     171.165 113.871  50.044  1.00108.23      A16S
ATOM   8659  O1P G   A 413     171.373 114.407  51.413  1.00112.22      A16S
ATOM   8660  O2P G   A 413     171.980 114.392  48.916  1.00112.22      A16S
ATOM   8661  O5* G   A 413     171.355 112.292  50.113  1.00108.23      A16S
ATOM   8662  C5* G   A 413     171.482 111.507  48.909  1.00108.23      A16S
ATOM   8663  C4* G   A 413     170.230 110.687  48.680  1.00108.23      A16S
ATOM   8664  O4* G   A 413     169.134 111.542  48.283  1.00108.23      A16S
ATOM   8665  C1* G   A 413     168.183 110.758  47.602  1.00108.23      A16S
ATOM   8666  N9  G   A 413     167.526 111.547  46.563  1.00112.22      A16S
ATOM   8667  C4  G   A 413     166.780 111.055  45.517  1.00112.22      A16S
ATOM   8668  N3  G   A 413     166.577 109.755  45.238  1.00112.22      A16S
ATOM   8669  C2  G   A 413     165.788 109.591  44.193  1.00112.22      A16S
ATOM   8670  N2  G   A 413     165.484 108.357  43.785  1.00112.22      A16S
ATOM   8671  N1  G   A 413     165.239 110.622  43.473  1.00112.22      A16S
ATOM   8672  C6  G   A 413     165.434 111.970  43.737  1.00112.22      A16S
ATOM   8673  O6  G   A 413     164.885 112.820  43.025  1.00112.22      A16S
ATOM   8674  C5  G   A 413     166.287 112.162  44.863  1.00112.22      A16S
ATOM   8675  N7  G   A 413     166.739 113.328  45.465  1.00112.22      A16S
ATOM   8676  C8  G   A 413     167.477 112.915  46.460  1.00112.22      A16S
ATOM   8677  C2* G   A 413     168.854 109.454  47.165  1.00108.23      A16S
ATOM   8678  O2* G   A 413     168.285 108.399  47.896  1.00108.23      A16S
ATOM   8679  C3* G   A 413     170.313 109.660  47.562  1.00108.23      A16S
ATOM   8680  O3* G   A 413     170.756 108.452  48.157  1.00108.23      A16S
ATOM   8681  P   A   A 414     171.813 107.510  47.412  1.00 92.15      A16S
ATOM   8682  O1P A   A 414     173.109 108.232  47.376  1.00 95.19      A16S
ATOM   8683  O2P A   A 414     171.235 106.994  46.156  1.00 95.19      A16S
ATOM   8684  O5* A   A 414     171.954 106.289  48.429  1.00 92.15      A16S
ATOM   8685  C5* A   A 414     172.071 106.531  49.851  1.00 92.15      A16S
ATOM   8686  C4* A   A 414     172.226 105.234  50.611  1.00 92.15      A16S
ATOM   8687  O4* A   A 414     170.972 104.508  50.649  1.00 92.15      A16S
ATOM   8688  C1* A   A 414     171.231 103.113  50.660  1.00 92.15      A16S
ATOM   8689  N9  A   A 414     170.521 102.490  49.540  1.00 95.19      A16S
ATOM   8690  C4  A   A 414     170.495 101.147  49.254  1.00 95.19      A16S
ATOM   8691  N3  A   A 414     171.098 100.162  49.934  1.00 95.19      A16S
ATOM   8692  C2  A   A 414     170.859  98.984  49.361  1.00 95.19      A16S
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ATOM   8693  N1  A   A 414     170.138  98.701  48.269  1.00 95.19      A16S
ATOM   8694  C6  A   A 414     169.543  99.716  47.610  1.00 95.19      A16S
ATOM   8695  N6  A   A 414     168.825  99.432  46.524  1.00 95.19      A16S
ATOM   8696  C5  A   A 414     169.721 101.016  48.116  1.00 95.19      A16S
ATOM   8697  N7  A   A 414     169.261 102.254  47.692  1.00 95.19      A16S
ATOM   8698  C8  A   A 414     169.761 103.092  48.568  1.00 95.19      A16S
ATOM   8699  C2* A   A 414     172.750 102.911  50.609  1.00 92.15      A16S
ATOM   8700  O2* A   A 414     173.239 102.637  51.905  1.00 92.15      A16S
ATOM   8701  C3* A   A 414     173.229 104.245  50.044  1.00 92.15      A16S
ATOM   8702  O3* A   A 414     174.553 104.569  50.437  1.00 92.15      A16S
ATOM   8703  P   A   A 415     175.756 104.388  49.388  1.00 79.89      A16S
ATOM   8704  O1P A   A 415     177.007 104.781  50.083  1.00 87.80      A16S
ATOM   8705  O2P A   A 415     175.395 105.047  48.100  1.00 87.80      A16S
ATOM   8706  O5* A   A 415     175.809 102.816  49.174  1.00 79.89      A16S
ATOM   8707  C5* A   A 415     176.143 101.960  50.264  1.00 79.89      A16S
ATOM   8708  C4* A   A 415     175.856 100.530  49.909  1.00 79.89      A16S
ATOM   8709  O4* A   A 415     174.434 100.369  49.672  1.00 79.89      A16S
ATOM   8710  C1* A   A 415     174.228  99.389  48.667  1.00 79.89      A16S
ATOM   8711  N9  A   A 415     173.528 100.008  47.537  1.00 87.80      A16S
ATOM   8712  C4  A   A 415     172.970  99.323  46.488  1.00 87.80      A16S
ATOM   8713  N3  A   A 415     172.952  97.991  46.307  1.00 87.80      A16S
ATOM   8714  C2  A   A 415     172.333  97.685  45.177  1.00 87.80      A16S
ATOM   8715  N1  A   A 415     171.773  98.499  44.271  1.00 87.80      A16S
ATOM   8716  C6  A   A 415     171.810  99.832  44.484  1.00 87.80      A16S
ATOM   8717  N6  A   A 415     171.257 100.640  43.581  1.00 87.80      A16S
ATOM   8718  C5  A   A 415     172.437 100.285  45.649  1.00 87.80      A16S
ATOM   8719  N7  A   A 415     172.652 101.557  46.157  1.00 87.80      A16S
ATOM   8720  C8  A   A 415     173.298 101.341  47.278  1.00 87.80      A16S
ATOM   8721  C2* A   A 415     175.601  98.852  48.257  1.00 79.89      A16S
ATOM   8722  O2* A   A 415     175.885  97.665  48.978  1.00 79.89      A16S
ATOM   8723  C3* A   A 415     176.508 100.015  48.639  1.00 79.89      A16S
ATOM   8724  O3* A   A 415     177.854  99.614  48.838  1.00 79.89      A16S
ATOM   8725  P   G   A 416     178.896  99.715  47.616  1.00 97.05      A16S
ATOM   8726  O1P G   A 416     180.158  99.037  48.032  1.00 64.33      A16S
ATOM   8727  O2P G   A 416     178.941 101.129  47.157  1.00 64.33      A16S
ATOM   8728  O5* G   A 416     178.227  98.822  46.477  1.00 97.05      A16S
ATOM   8729  C5* G   A 416     178.164  97.385  46.601  1.00 97.05      A16S
ATOM   8730  C4* G   A 416     177.509  96.780  45.379  1.00 97.05      A16S
ATOM   8731  O4* G   A 416     176.125  97.212  45.310  1.00 97.05      A16S
ATOM   8732  C1* G   A 416     175.749  97.415  43.958  1.00 97.05      A16S
ATOM   8733  N9  G   A 416     175.391  98.821  43.802  1.00 64.33      A16S
ATOM   8734  C4  G   A 416     174.579  99.371  42.835  1.00 64.33      A16S
ATOM   8735  N3  G   A 416     173.953  98.703  41.845  1.00 64.33      A16S
ATOM   8736  C2  G   A 416     173.243  99.513  41.079  1.00 64.33      A16S
ATOM   8737  N2  G   A 416     172.545  99.023  40.044  1.00 64.33      A16S
ATOM   8738  N1  G   A 416     173.160 100.869  41.267  1.00 64.33      A16S
ATOM   8739  C6  G   A 416     173.794 101.579  42.277  1.00 64.33      A16S
ATOM   8740  O6  G   A 416     173.652 102.808  42.355  1.00 64.33      A16S
ATOM   8741  C5  G   A 416     174.552 100.724  43.110  1.00 64.33      A16S
ATOM   8742  N7  G   A 416     175.324 101.016  44.226  1.00 64.33      A16S
ATOM   8743  C8  G   A 416     175.801  99.861  44.599  1.00 64.33      A16S
ATOM   8744  C2* G   A 416     176.933  97.003  43.084  1.00 97.05      A16S
ATOM   8745  O2* G   A 416     176.769  95.656  42.689  1.00 97.05      A16S
ATOM   8746  C3* G   A 416     178.104  97.189  44.041  1.00 97.05      A16S
ATOM   8747  O3* G   A 416     179.232  96.398  43.687  1.00 97.05      A16S
ATOM   8748  P   C   A 417     180.374  97.030  42.747  1.00 96.90      A16S
ATOM   8749  O1P C   A 417     181.481  96.045  42.639  1.00 62.99      A16S
ATOM   8750  O2P C   A 417     180.659  98.418  43.196  1.00 62.99      A16S
ATOM   8751  O5* C   A 417     179.675  97.148  41.324  1.00 96.90      A16S
ATOM   8752  C5* C   A 417     179.339  95.976  40.565  1.00 96.90      A16S
ATOM   8753  C4* C   A 417     178.509  96.356  39.364  1.00 96.90      A16S
ATOM   8754  O4* C   A 417     177.229  96.879  39.811  1.00 96.90      A16S
ATOM   8755  C1* C   A 417     176.820  97.929  38.955  1.00 96.90      A16S
ATOM   8756  N1  C   A 417     176.806  99.182  39.726  1.00 62.99      A16S
ATOM   8757  C6  C   A 417     177.615  99.350  40.815  1.00 62.99      A16S
ATOM   8758  C2  C   A 417     175.966 100.219  39.308  1.00 62.99      A16S
ATOM   8759  O2  C   A 417     175.212 100.033  38.343  1.00 62.99      A16S
ATOM   8760  N3  C   A 417     175.992 101.396  39.966  1.00 62.99      A16S
ATOM   8761  C4  C   A 417     176.800 101.558  41.008  1.00 62.99      A16S
ATOM   8762  N4  C   A 417     176.801 102.744  41.609  1.00 62.99      A16S
ATOM   8763  C5  C   A 417     177.644 100.510  41.478  1.00 62.99      A16S
ATOM   8764  C2* C   A 417     177.845  98.030  37.827  1.00 96.90      A16S
ATOM   8765  O2* C   A 417     177.431  97.253  36.720  1.00 96.90      A16S
ATOM   8766  C3* C   A 417     179.084  97.465  38.499  1.00 96.90      A16S
ATOM   8767  O3* C   A 417     180.049  97.017  37.561  1.00 96.90      A16S
ATOM   8768  P   C   A 418     181.143  98.056  37.008  1.00 64.70      A16S
ATOM   8769  O1P C   A 418     181.838  98.650  38.179  1.00124.67      A16S
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ATOM   8770  O2P C   A 418     181.933  97.366  35.958  1.00124.67      A16S
ATOM   8771  O5* C   A 418     180.270  99.208  36.330  1.00 64.70      A16S
ATOM   8772  C5* C   A 418     179.489  98.930  35.150  1.00 64.70      A16S
ATOM   8773  C4* C   A 418     178.907 100.196  34.580  1.00 64.70      A16S
ATOM   8774  O4* C   A 418     177.853 100.688  35.442  1.00 64.70      A16S
ATOM   8775  C1* C   A 418     177.838 102.106  35.418  1.00 64.70      A16S
ATOM   8776  N1   C   A 418     178.114 102.605  36.778  1.00124.67      A16S
ATOM   8777  C6   C   A 418     178.854 101.865  37.660  1.00124.67      A16S
ATOM   8778  C2   C   A 418     177.628 103.868  37.150  1.00124.67      A16S
ATOM   8779  O2   C   A 418     176.934 104.509  36.347  1.00124.67      A16S
ATOM   8780  N3   C   A 418     177.927 104.355  38.373  1.00124.67      A16S
ATOM   8781  C4   C   A 418     178.670 103.633  39.214  1.00124.67      A16S
ATOM   8782  N4   C   A 418     178.958 104.162  40.403  1.00124.67      A16S
ATOM   8783  C5   C   A 418     179.155 102.338  38.873  1.00124.67      A16S
ATOM   8784  C2* C   A 418     178.929 102.564  34.450  1.00 64.70      A16S
ATOM   8785  O2* C   A 418     178.355 102.874  33.195  1.00 64.70      A16S
ATOM   8786  C3* C   A 418     179.865 101.360  34.455  1.00 64.70      A16S
ATOM   8787  O3* C   A 418     180.696 101.270  33.313  1.00 64.70      A16S
ATOM   8788  P    C   A 419     182.161 101.929  33.360  1.00 70.30      A16S
ATOM   8789  O1P C   A 419     182.887 101.462  32.152  1.00 66.56      A16S
ATOM   8790  O2P C   A 419     182.743 101.683  34.701  1.00 66.56      A16S
ATOM   8791  O5* C   A 419     181.878 103.492  33.236  1.00 70.30      A16S
ATOM   8792  C5* C   A 419     181.227 104.019  32.076  1.00 70.30      A16S
ATOM   8793  C4* C   A 419     180.866 105.473  32.274  1.00 70.30      A16S
ATOM   8794  O4* C   A 419     179.896 105.603  33.343  1.00 70.30      A16S
ATOM   8795  C1* C   A 419     180.080 106.845  34.007  1.00 70.30      A16S
ATOM   8796  N1   C   A 419     180.368 106.591  35.436  1.00 66.56      A16S
ATOM   8797  C6   C   A 419     180.639 105.329  35.886  1.00 66.56      A16S
ATOM   8798  C2   C   A 419     180.367 107.669  36.329  1.00 66.56      A16S
ATOM   8799  O2   C   A 419     180.116 108.800  35.901  1.00 66.56      A16S
ATOM   8800  N3   C   A 419     180.642 107.449  37.630  1.00 66.56      A16S
ATOM   8801  C4   C   A 419     180.914 106.213  38.054  1.00 66.56      A16S
ATOM   8802  N4   C   A 419     181.197 106.039  39.350  1.00 66.56      A16S
ATOM   8803  C5   C   A 419     180.914 105.097  37.172  1.00 66.56      A16S
ATOM   8804  C2* C   A 419     181.218 107.579  33.300  1.00 70.30      A16S
ATOM   8805  O2* C   A 419     180.663 108.457  32.341  1.00 70.30      A16S
ATOM   8806  C3* C   A 419     181.983 106.424  32.665  1.00 70.30      A16S
ATOM   8807  O3* C   A 419     182.755 106.845  31.550  1.00 70.30      A16S
ATOM   8808  P    U   A 420     184.324 107.156  31.745  1.00 75.54      A16S
ATOM   8809  O1P U   A 420     184.861 107.569  30.421  1.00 75.98      A16S
ATOM   8810  O2P U   A 420     184.952 106.015  32.470  1.00 75.98      A16S
ATOM   8811  O5* U   A 420     184.329 108.444  32.682  1.00 75.54      A16S
ATOM   8812  C5* U   A 420     183.708 109.657  32.235  1.00 75.54      A16S
ATOM   8813  C4* U   A 420     183.692 110.687  33.337  1.00 75.54      A16S
ATOM   8814  O4* U   A 420     182.845 110.244  34.423  1.00 75.54      A16S
ATOM   8815  C1* U   A 420     183.352 110.739  35.648  1.00 75.54      A16S
ATOM   8816  N1   U   A 420     183.586 109.603  36.554  1.00 75.98      A16S
ATOM   8817  C6   U   A 420     183.897 108.344  36.072  1.00 75.98      A16S
ATOM   8818  C2   U   A 420     183.469 109.833  37.915  1.00 75.98      A16S
ATOM   8819  O2   U   A 420     183.223 110.934  38.388  1.00 75.98      A16S
ATOM   8820  N3   U   A 420     183.657 108.727  38.705  1.00 75.98      A16S
ATOM   8821  C4   U   A 420     183.953 107.443  38.291  1.00 75.98      A16S
ATOM   8822  O4   U   A 420     184.064 106.544  39.133  1.00 75.98      A16S
ATOM   8823  C5   U   A 420     184.079 107.288  36.872  1.00 75.98      A16S
ATOM   8824  C2* U   A 420     184.600 111.570  35.344  1.00 75.54      A16S
ATOM   8825  O2* U   A 420     184.229 112.930  35.269  1.00 75.54      A16S
ATOM   8826  C3* U   A 420     185.025 111.019  33.987  1.00 75.54      A16S
ATOM   8827  O3* U   A 420     185.713 112.009  33.227  1.00 75.54      A16S
ATOM   8828  P    U   A 421     187.304 111.911  33.045  1.00 98.03      A16S
ATOM   8829  O1P U   A 421     187.587 111.793  31.594  1.00162.19      A16S
ATOM   8830  O2P U   A 421     187.845 110.891  33.985  1.00162.19      A16S
ATOM   8831  O5* U   A 421     187.806 113.342  33.512  1.00 98.03      A16S
ATOM   8832  C5* U   A 421     187.422 113.864  34.783  1.00 98.03      A16S
ATOM   8833  C4* U   A 421     187.819 115.304  34.877  1.00 98.03      A16S
ATOM   8834  O4* U   A 421     187.272 116.001  33.729  1.00 98.03      A16S
ATOM   8835  C1* U   A 421     186.454 117.063  34.160  1.00 98.03      A16S
ATOM   8836  N1   U   A 421     185.291 117.134  33.258  1.00162.19      A16S
ATOM   8837  C6   U   A 421     184.149 116.391  33.489  1.00162.19      A16S
ATOM   8838  C2   U   A 421     185.374 117.980  32.160  1.00162.19      A16S
ATOM   8839  O2   U   A 421     186.364 118.649  31.906  1.00162.19      A16S
ATOM   8840  N3   U   A 421     184.253 118.012  31.366  1.00162.19      A16S
ATOM   8841  C4   U   A 421     183.081 117.302  31.548  1.00162.19      A16S
ATOM   8842  O4   U   A 421     182.149 117.457  30.757  1.00162.19      A16S
ATOM   8843  C5   U   A 421     183.074 116.447  32.694  1.00162.19      A16S
ATOM   8844  C2* U   A 421     186.102 116.788  35.625  1.00 98.03      A16S
ATOM   8845  O2* U   A 421     185.867 117.997  36.324  1.00 98.03      A16S
ATOM   8846  C3* U   A 421     187.328 116.023  36.125  1.00 98.03      A16S
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ATOM   8847  O3* U   A 421     188.336 116.907  36.613  1.00 98.03      A16S
ATOM   8848  P   C   A 422     189.380 116.394  37.732  1.00147.18      A16S
ATOM   8849  O1P C   A 422     189.914 117.600  38.408  1.00139.93      A16S
ATOM   8850  O2P C   A 422     190.319 115.440  37.093  1.00139.93      A16S
ATOM   8851  O5* C   A 422     188.500 115.579  38.785  1.00147.18      A16S
ATOM   8852  C5* C   A 422     187.532 116.241  39.630  1.00147.18      A16S
ATOM   8853  C4* C   A 422     187.046 115.298  40.712  1.00147.18      A16S
ATOM   8854  O4* C   A 422     186.450 114.134  40.081  1.00147.18      A16S
ATOM   8855  C1* C   A 422     187.091 112.960  40.539  1.00147.18      A16S
ATOM   8856  N1  C   A 422     187.182 112.009  39.416  1.00139.93      A16S
ATOM   8857  C6  C   A 422     187.256 112.456  38.124  1.00139.93      A16S
ATOM   8858  C2  C   A 422     187.177 110.631  39.687  1.00139.93      A16S
ATOM   8859  O2  C   A 422     187.141 110.245  40.869  1.00139.93      A16S
ATOM   8860  N3  C   A 422     187.215 109.757  38.652  1.00139.93      A16S
ATOM   8861  C4  C   A 422     187.264 110.210  37.394  1.00139.93      A16S
ATOM   8862  N4  C   A 422     187.274 109.315  36.401  1.00139.93      A16S
ATOM   8863  C5  C   A 422     187.298 111.601  37.096  1.00139.93      A16S
ATOM   8864  C2* C   A 422     188.440 113.393  41.108  1.00147.18      A16S
ATOM   8865  O2* C   A 422     188.879 112.469  42.083  1.00147.18      A16S
ATOM   8866  C3* C   A 422     188.107 114.772  41.678  1.00147.18      A16S
ATOM   8867  O3* C   A 422     187.519 114.612  42.974  1.00147.18      A16S
ATOM   8868  P   G   A 423     187.889 115.629  44.172  1.00123.11      A16S
ATOM   8869  O1P G   A 423     189.040 116.484  43.773  1.00112.56      A16S
ATOM   8870  O2P G   A 423     187.969 114.826  45.420  1.00112.56      A16S
ATOM   8871  O5* G   A 423     186.616 116.581  44.279  1.00123.11      A16S
ATOM   8872  C5* G   A 423     185.286 116.039  44.420  1.00123.11      A16S
ATOM   8873  C4* G   A 423     184.261 117.093  44.076  1.00123.11      A16S
ATOM   8874  O4* G   A 423     184.581 117.664  42.783  1.00123.11      A16S
ATOM   8875  C1* G   A 423     183.387 117.987  42.097  1.00123.11      A16S
ATOM   8876  N9  G   A 423     183.423 117.358  40.776  1.00112.56      A16S
ATOM   8877  C4  G   A 423     183.517 116.009  40.479  1.00112.56      A16S
ATOM   8878  N3  G   A 423     183.581 114.993  41.367  1.00112.56      A16S
ATOM   8879  C2  G   A 423     183.670 113.816  40.767  1.00112.56      A16S
ATOM   8880  N2  G   A 423     183.744 112.694  41.488  1.00112.56      A16S
ATOM   8881  N1  G   A 423     183.695 113.649  39.413  1.00112.56      A16S
ATOM   8882  C6  G   A 423     183.632 114.674  38.480  1.00112.56      A16S
ATOM   8883  O6  G   A 423     183.666 114.410  37.276  1.00112.56      A16S
ATOM   8884  C5  G   A 423     183.535 115.942  39.102  1.00112.56      A16S
ATOM   8885  N7  G   A 423     183.448 117.211  38.544  1.00112.56      A16S
ATOM   8886  C8  G   A 423     183.381 118.014  39.569  1.00112.56      A16S
ATOM   8887  C2* G   A 423     182.200 117.616  42.994  1.00123.11      A16S
ATOM   8888  O2* G   A 423     181.716 118.769  43.657  1.00123.11      A16S
ATOM   8889  C3* G   A 423     182.826 116.605  43.951  1.00123.11      A16S
ATOM   8890  O3* G   A 423     182.171 116.620  45.216  1.00123.11      A16S
ATOM   8891  P   G   A 424     181.252 115.378  45.658  1.00104.15      A16S
ATOM   8892  O1P G   A 424     180.423 115.848  46.802  1.00 78.16      A16S
ATOM   8893  O2P G   A 424     182.122 114.173  45.817  1.00 78.16      A16S
ATOM   8894  O5* G   A 424     180.266 115.154  44.425  1.00104.15      A16S
ATOM   8895  C5* G   A 424     179.436 116.233  43.948  1.00104.15      A16S
ATOM   8896  C4* G   A 424     179.188 116.104  42.460  1.00104.15      A16S
ATOM   8897  O4* G   A 424     180.373 115.543  41.829  1.00104.15      A16S
ATOM   8898  C1* G   A 424     179.997 114.764  40.708  1.00104.15      A16S
ATOM   8899  N9  G   A 424     180.342 113.370  40.961  1.00 78.16      A16S
ATOM   8900  C4  G   A 424     180.408 112.378  40.015  1.00 78.16      A16S
ATOM   8901  N3  G   A 424     180.218 112.538  38.687  1.00 78.16      A16S
ATOM   8902  C2  G   A 424     180.299 111.394  38.034  1.00 78.16      A16S
ATOM   8903  N2  G   A 424     180.129 111.377  36.702  1.00 78.16      A16S
ATOM   8904  N1  G   A 424     180.551 110.186  38.639  1.00 78.16      A16S
ATOM   8905  C6  G   A 424     180.753 110.001  40.004  1.00 78.16      A16S
ATOM   8906  O6  G   A 424     180.970 108.871  40.446  1.00 78.16      A16S
ATOM   8907  C5  G   A 424     180.667 111.220  40.714  1.00 78.16      A16S
ATOM   8908  N7  G   A 424     180.794 111.482  42.071  1.00 78.16      A16S
ATOM   8909  C8  G   A 424     180.604 112.770  42.170  1.00 78.16      A16S
ATOM   8910  C2* G   A 424     178.483 114.874  40.574  1.00104.15      A16S
ATOM   8911  O2* G   A 424     178.159 115.937  39.704  1.00104.15      A16S
ATOM   8912  C3* G   A 424     178.075 115.174  42.005  1.00104.15      A16S
ATOM   8913  O3* G   A 424     176.787 115.768  42.040  1.00104.15      A16S
ATOM   8914  P   G   A 425     175.485 114.822  42.010  1.00 96.78      A16S
ATOM   8915  O1P G   A 425     174.298 115.704  42.049  1.00 72.63      A16S
ATOM   8916  O2P G   A 425     175.635 113.760  43.035  1.00 72.63      A16S
ATOM   8917  O5* G   A 425     175.561 114.108  40.586  1.00 96.78      A16S
ATOM   8918  C5* G   A 425     175.523 114.874  39.364  1.00 96.78      A16S
ATOM   8919  C4* G   A 425     175.529 113.961  38.153  1.00 96.78      A16S
ATOM   8920  O4* G   A 425     176.791 113.241  38.046  1.00 96.78      A16S
ATOM   8921  C1* G   A 425     176.572 111.985  37.418  1.00 96.78      A16S
ATOM   8922  N9  G   A 425     176.988 110.909  38.316  1.00 72.63      A16S
ATOM   8923  C4  G   A 425     177.084 109.570  37.989  1.00 72.63      A16S
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ATOM   8924  N3  G   A 425     176.837 109.026  36.777  1.00 72.63      A16S
ATOM   8925  C2  G   A 425     177.017 107.714  36.776  1.00 72.63      A16S
ATOM   8926  N2  G   A 425     176.840 107.022  35.653  1.00 72.63      A16S
ATOM   8927  N1  G   A 425     177.389 106.988  37.872  1.00 72.63      A16S
ATOM   8928  C6  G   A 425     177.638 107.518  39.131  1.00 72.63      A16S
ATOM   8929  O6  G   A 425     177.955 106.764  40.060  1.00 72.63      A16S
ATOM   8930  C5  G   A 425     177.468 108.937  39.149  1.00 72.63      A16S
ATOM   8931  N7  G   A 425     177.626 109.854  40.180  1.00 72.63      A16S
ATOM   8932  C8  G   A 425     177.335 111.007  39.640  1.00 72.63      A16S
ATOM   8933  C2* G   A 425     175.078 111.877  37.119  1.00 96.78      A16S
ATOM   8934  O2* G   A 425     174.823 112.258  35.781  1.00 96.78      A16S
ATOM   8935  C3* G   A 425     174.491 112.855  38.125  1.00 96.78      A16S
ATOM   8936  O3* G   A 425     173.201 113.282  37.746  1.00 96.78      A16S
ATOM   8937  P   G   A 426     171.934 112.457  38.277  1.00 80.54      A16S
ATOM   8938  O1P G   A 426     170.704 113.090  37.759  1.00 72.63      A16S
ATOM   8939  O2P G   A 426     172.099 112.267  39.733  1.00 72.63      A16S
ATOM   8940  O5* G   A 426     172.106 111.019  37.613  1.00 80.54      A16S
ATOM   8941  C5* G   A 426     172.080 110.862  36.183  1.00 80.54      A16S
ATOM   8942  C4* G   A 426     172.143 109.400  35.802  1.00 80.54      A16S
ATOM   8943  O4* G   A 426     173.428 108.838  36.169  1.00 80.54      A16S
ATOM   8944  C1* G   A 426     173.274 107.457  36.447  1.00 80.54      A16S
ATOM   8945  N9  G   A 426     173.788 107.182  37.784  1.00 72.63      A16S
ATOM   8946  C4  G   A 426     174.122 105.948  38.280  1.00 72.63      A16S
ATOM   8947  N3  G   A 426     174.065 104.785  37.604  1.00 72.63      A16S
ATOM   8948  C2  G   A 426     174.442 103.763  38.351  1.00 72.63      A16S
ATOM   8949  N2  G   A 426     174.467 102.533  37.827  1.00 72.63      A16S
ATOM   8950  N1  G   A 426     174.826 103.873  39.665  1.00 72.63      A16S
ATOM   8951  C6  G   A 426     174.886 105.062  40.381  1.00 72.63      A16S
ATOM   8952  O6  G   A 426     175.231 105.050  41.568  1.00 72.63      A16S
ATOM   8953  C5  G   A 426     174.506 106.168  39.584  1.00 72.63      A16S
ATOM   8954  N7  G   A 426     174.440 107.518  39.896  1.00 72.63      A16S
ATOM   8955  C8  G   A 426     174.014 108.081  38.798  1.00 72.63      A16S
ATOM   8956  C2* G   A 426     171.792 107.103  36.290  1.00 80.54      A16S
ATOM   8957  O2* G   A 426     171.612 106.521  35.014  1.00 80.54      A16S
ATOM   8958  C3* G   A 426     171.118 108.468  36.430  1.00 80.54      A16S
ATOM   8959  O3* G   A 426     169.883 108.538  35.723  1.00 80.54      A16S
ATOM   8960  P   U   A 427     168.492 108.307  36.499  1.00 47.06      A16S
ATOM   8961  O1P U   A 427     167.422 108.697  35.558  1.00 76.89      A16S
ATOM   8962  O2P U   A 427     168.555 108.949  37.821  1.00 76.89      A16S
ATOM   8963  O5* U   A 427     168.427 106.731  36.716  1.00 47.06      A16S
ATOM   8964  C5* U   A 427     168.332 105.853  35.592  1.00 47.06      A16S
ATOM   8965  C4* U   A 427     168.676 104.441  35.992  1.00 47.06      A16S
ATOM   8966  O4* U   A 427     170.017 104.412  36.528  1.00 47.06      A16S
ATOM   8967  C1* U   A 427     170.121 103.379  37.482  1.00 47.06      A16S
ATOM   8968  N1  U   A 427     170.678 103.923  38.731  1.00 76.89      A16S
ATOM   8969  C6  U   A 427     170.691 105.275  38.992  1.00 76.89      A16S
ATOM   8970  C2  U   A 427     171.201 103.017  39.645  1.00 76.89      A16S
ATOM   8971  O2  U   A 427     171.205 101.806  39.461  1.00 76.89      A16S
ATOM   8972  N3  U   A 427     171.719 103.581  40.782  1.00 76.89      A16S
ATOM   8973  C4  U   A 427     171.768 104.920  41.098  1.00 76.89      A16S
ATOM   8974  O4  U   A 427     172.291 105.268  42.158  1.00 76.89      A16S
ATOM   8975  C5  U   A 427     171.203 105.789  40.112  1.00 76.89      A16S
ATOM   8976  C2* U   A 427     168.748 102.720  37.625  1.00 47.06      A16S
ATOM   8977  O2* U   A 427     168.760 101.545  36.846  1.00 47.06      A16S
ATOM   8978  C3* U   A 427     167.814 103.784  37.060  1.00 47.06      A16S
ATOM   8979  O3* U   A 427     166.669 103.174  36.460  1.00 47.06      A16S
ATOM   8980  P   G   A 428     165.288 103.075  37.271  1.00 58.06      A16S
ATOM   8981  O1P G   A 428     165.486 102.130  38.399  1.00 71.18      A16S
ATOM   8982  O2P G   A 428     164.211 102.827  36.290  1.00 71.18      A16S
ATOM   8983  O5* G   A 428     165.090 104.547  37.835  1.00 58.06      A16S
ATOM   8984  C5* G   A 428     163.875 104.941  38.504  1.00 58.06      A16S
ATOM   8985  C4* G   A 428     164.214 105.823  39.676  1.00 58.06      A16S
ATOM   8986  O4* G   A 428     164.943 105.030  40.631  1.00 58.06      A16S
ATOM   8987  C1* G   A 428     165.896 105.836  41.275  1.00 58.06      A16S
ATOM   8988  N9  G   A 428     167.072 105.031  41.597  1.00 71.18      A16S
ATOM   8989  C4  G   A 428     167.960 105.299  42.607  1.00 71.18      A16S
ATOM   8990  N3  G   A 428     167.924 106.374  43.418  1.00 71.18      A16S
ATOM   8991  C2  G   A 428     168.887 106.349  44.312  1.00 71.18      A16S
ATOM   8992  N2  G   A 428     168.988 107.343  45.183  1.00 71.18      A16S
ATOM   8993  N1  G   A 428     169.820 105.349  44.418  1.00 71.18      A16S
ATOM   8994  C6  G   A 428     169.885 104.228  43.601  1.00 71.18      A16S
ATOM   8995  O6  G   A 428     170.774 103.386  43.788  1.00 71.18      A16S
ATOM   8996  C5  G   A 428     168.844 104.240  42.615  1.00 71.18      A16S
ATOM   8997  N7  G   A 428     168.536 103.336  41.604  1.00 71.18      A16S
ATOM   8998  C8  G   A 428     167.486 103.852  41.019  1.00 71.18      A16S
ATOM   8999  C2* G   A 428     166.056 107.161  40.524  1.00 58.06      A16S
ATOM   9000  O2* G   A 428     165.695 108.231  41.358  1.00 58.06      A16S
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ATOM	9001	C3*	G	A	428	165.144	106.969	39.312	1.00	58.06	A16S
ATOM	9002	O3*	G	A	428	164.379	108.109	38.861	1.00	58.06	A16S
ATOM	9003	P	U	A	429	163.475	108.976	39.890	1.00	64.79	A16S
ATOM	9004	O1P	U	A	429	162.272	109.364	39.117	1.00	76.90	A16S
ATOM	9005	O2P	U	A	429	164.304	110.040	40.508	1.00	76.90	A16S
ATOM	9006	O5*	U	A	429	163.005	107.941	41.015	1.00	64.79	A16S
ATOM	9007	C5*	U	A	429	161.949	108.295	41.941	1.00	64.79	A16S
ATOM	9008	C4*	U	A	429	161.140	107.078	42.344	1.00	64.79	A16S
ATOM	9009	O4*	U	A	429	161.741	106.445	43.513	1.00	64.79	A16S
ATOM	9010	C1*	U	A	429	160.764	106.317	44.527	1.00	64.79	A16S
ATOM	9011	N1	U	A	429	161.402	106.307	45.856	1.00	76.90	A16S
ATOM	9012	C6	U	A	429	161.466	107.436	46.646	1.00	76.90	A16S
ATOM	9013	C2	U	A	429	161.923	105.102	46.307	1.00	76.90	A16S
ATOM	9014	O2	U	A	429	161.898	104.079	45.649	1.00	76.90	A16S
ATOM	9015	N3	U	A	429	162.471	105.138	47.564	1.00	76.90	A16S
ATOM	9016	C4	U	A	429	162.549	106.223	48.406	1.00	76.90	A16S
ATOM	9017	O4	U	A	429	163.094	106.099	49.505	1.00	76.90	A16S
ATOM	9018	C5	U	A	429	161.999	107.432	47.872	1.00	76.90	A16S
ATOM	9019	C2*	U	A	429	159.763	107.437	44.266	1.00	64.79	A16S
ATOM	9020	O2*	U	A	429	158.535	107.142	44.891	1.00	64.79	A16S
ATOM	9021	C3*	U	A	429	159.698	107.416	42.743	1.00	64.79	A16S
ATOM	9022	O3*	U	A	429	158.784	106.361	42.410	1.00	64.79	A16S
ATOM	9023	P	A	A	430	158.730	105.758	40.918	1.00	64.11	A16S
ATOM	9024	O1P	A	A	430	159.145	106.823	39.943	1.00	64.32	A16S
ATOM	9025	O2P	A	A	430	157.410	105.084	40.770	1.00	64.32	A16S
ATOM	9026	O5*	A	A	430	159.836	104.619	40.945	1.00	64.11	A16S
ATOM	9027	C5*	A	A	430	159.919	103.730	42.054	1.00	64.11	A16S
ATOM	9028	C4*	A	A	430	160.851	102.598	41.738	1.00	64.11	A16S
ATOM	9029	O4*	A	A	430	162.158	103.126	41.409	1.00	64.11	A16S
ATOM	9030	C1*	A	A	430	163.158	102.244	41.886	1.00	64.11	A16S
ATOM	9031	N9	A	A	430	164.028	102.980	42.802	1.00	64.32	A16S
ATOM	9032	C4	A	A	430	165.114	102.463	43.459	1.00	64.32	A16S
ATOM	9033	N3	A	A	430	165.564	101.199	43.414	1.00	64.32	A16S
ATOM	9034	C2	A	A	430	166.647	101.063	44.172	1.00	64.32	A16S
ATOM	9035	N1	A	A	430	167.283	101.977	44.916	1.00	64.32	A16S
ATOM	9036	C6	A	A	430	166.799	103.237	44.943	1.00	64.32	A16S
ATOM	9037	N6	A	A	430	167.428	104.150	45.687	1.00	64.32	A16S
ATOM	9038	C5	A	A	430	165.652	103.511	44.180	1.00	64.32	A16S
ATOM	9039	N7	A	A	430	164.909	104.668	43.995	1.00	64.32	A16S
ATOM	9040	C8	A	A	430	163.956	104.300	43.176	1.00	64.32	A16S
ATOM	9041	C2*	A	A	430	162.461	101.053	42.545	1.00	64.11	A16S
ATOM	9042	O2*	A	A	430	162.365	100.004	41.605	1.00	64.11	A16S
ATOM	9043	C3*	A	A	430	161.106	101.648	42.892	1.00	64.11	A16S
ATOM	9044	O3*	A	A	430	160.082	100.678	42.985	1.00	64.11	A16S
ATOM	9045	P	A	A	431	159.494	100.298	44.425	1.00	58.55	A16S
ATOM	9046	O1P	A	A	431	158.430	99.287	44.238	1.00	74.21	A16S
ATOM	9047	O2P	A	A	431	159.174	101.566	45.113	1.00	74.21	A16S
ATOM	9048	O5*	A	A	431	160.733	99.593	45.129	1.00	58.55	A16S
ATOM	9049	C5*	A	A	431	161.376	98.478	44.488	1.00	58.55	A16S
ATOM	9050	C4*	A	A	431	162.662	98.110	45.191	1.00	58.55	A16S
ATOM	9051	O4*	A	A	431	163.649	99.164	45.043	1.00	58.55	A16S
ATOM	9052	C1*	A	A	431	164.499	99.179	46.176	1.00	58.55	A16S
ATOM	9053	N9	A	A	431	164.486	100.520	46.757	1.00	74.21	A16S
ATOM	9054	C4	A	A	431	165.169	100.906	47.883	1.00	74.21	A16S
ATOM	9055	N3	A	A	431	165.987	100.152	48.636	1.00	74.21	A16S
ATOM	9056	C2	A	A	431	166.452	100.854	49.663	1.00	74.21	A16S
ATOM	9057	N1	A	A	431	166.203	102.124	50.003	1.00	74.21	A16S
ATOM	9058	C6	A	A	431	165.371	102.848	49.227	1.00	74.21	A16S
ATOM	9059	N6	A	A	431	165.101	104.102	49.578	1.00	74.21	A16S
ATOM	9060	C5	A	A	431	164.826	102.227	48.097	1.00	74.21	A16S
ATOM	9061	N7	A	A	431	163.967	102.679	47.105	1.00	74.21	A16S
ATOM	9062	C8	A	A	431	163.799	101.632	46.335	1.00	74.21	A16S
ATOM	9063	C2*	A	A	431	164.013	98.094	47.142	1.00	58.55	A16S
ATOM	9064	O2*	A	A	431	164.820	96.952	46.965	1.00	58.55	A16S
ATOM	9065	C3*	A	A	431	162.574	97.870	46.686	1.00	58.55	A16S
ATOM	9066	O3*	A	A	431	162.115	96.549	46.951	1.00	58.55	A16S
ATOM	9067	P	A	A	432	161.122	96.287	48.185	1.00	81.48	A16S
ATOM	9068	O1P	A	A	432	160.879	94.829	48.245	1.00	82.32	A16S
ATOM	9069	O2P	A	A	432	159.963	97.214	48.106	1.00	82.32	A16S
ATOM	9070	O5*	A	A	432	162.018	96.688	49.438	1.00	81.48	A16S
ATOM	9071	C5*	A	A	432	163.311	96.079	49.632	1.00	81.48	A16S
ATOM	9072	C4*	A	A	432	164.062	96.764	50.750	1.00	81.48	A16S
ATOM	9073	O4*	A	A	432	164.384	98.125	50.372	1.00	81.48	A16S
ATOM	9074	C1*	A	A	432	164.415	98.934	51.529	1.00	81.48	A16S
ATOM	9075	N9	A	A	432	163.569	100.106	51.313	1.00	82.32	A16S
ATOM	9076	C4	A	A	432	163.636	101.286	52.019	1.00	82.32	A16S
ATOM	9077	N3	A	A	432	164.458	101.583	53.041	1.00	82.32	A16S

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ATOM   9078  C2  A   A 432     164.258 102.833  53.462  1.00 82.32      A16S
ATOM   9079  N1  A   A 432     163.396 103.750  53.014  1.00 82.32      A16S
ATOM   9080  C6  A   A 432     162.579 103.418  51.990  1.00 82.32      A16S
ATOM   9081  N6  A   A 432     161.717 104.333  51.544  1.00 82.32      A16S
ATOM   9082  C5  A   A 432     162.691 102.118  51.452  1.00 82.32      A16S
ATOM   9083  N7  A   A 432     162.026 101.471  50.422  1.00 82.32      A16S
ATOM   9084  C8  A   A 432     162.580 100.284  50.383  1.00 82.32      A16S
ATOM   9085  C2* A   A 432     164.036  98.071  52.736  1.00 81.48      A16S
ATOM   9086  O2* A   A 432     165.220  97.678  53.401  1.00 81.48      A16S
ATOM   9087  C3* A   A 432     163.328  96.892  52.077  1.00 81.48      A16S
ATOM   9088  O3* A   A 432     163.455  95.700  52.853  1.00 81.48      A16S
ATOM   9089  P   C   A 433     162.137  94.973  53.419  1.00 90.89      A16S
ATOM   9090  O1P C   A 433     162.583  93.883  54.331  1.00 87.03      A16S
ATOM   9091  O2P C   A 433     161.260  94.646  52.270  1.00 87.03      A16S
ATOM   9092  O5* C   A 433     161.417  96.109  54.276  1.00 90.89      A16S
ATOM   9093  C5* C   A 433     161.979  96.548  55.525  1.00 90.89      A16S
ATOM   9094  C4* C   A 433     161.389  97.873  55.941  1.00 90.89      A16S
ATOM   9095  O4* C   A 433     161.745  98.883  54.969  1.00 90.89      A16S
ATOM   9096  C1* C   A 433     160.712  99.848  54.890  1.00 90.89      A16S
ATOM   9097  N1  C   A 433     160.247  99.942  53.494  1.00 87.03      A16S
ATOM   9098  C6  C   A 433     160.272  98.857  52.660  1.00 87.03      A16S
ATOM   9099  C2  C   A 433     159.751 101.169  53.038  1.00 87.03      A16S
ATOM   9100  O2  C   A 433     159.770 102.149  53.805  1.00 87.03      A16S
ATOM   9101  N3  C   A 433     159.267 101.258  51.779  1.00 87.03      A16S
ATOM   9102  C4  C   A 433     159.270 100.188  50.986  1.00 87.03      A16S
ATOM   9103  N4  C   A 433     158.755 100.319  49.767  1.00 87.03      A16S
ATOM   9104  C5  C   A 433     159.796  98.935  51.412  1.00 87.03      A16S
ATOM   9105  C2* C   A 433     159.596  99.439  55.857  1.00 90.89      A16S
ATOM   9106  O2* C   A 433     159.690 100.184  57.054  1.00 90.89      A16S
ATOM   9107  C3* C   A 433     159.873  97.950  56.048  1.00 90.89      A16S
ATOM   9108  O3* C   A 433     159.415  97.490  57.318  1.00 90.89      A16S
ATOM   9109  P   U   A 434     157.856  97.157  57.534  1.00 80.44      A16S
ATOM   9110  O1P U   A 434     157.701  96.646  58.921  1.00111.67      A16S
ATOM   9111  O2P U   A 434     157.384  96.325  56.394  1.00111.67      A16S
ATOM   9112  O5* U   A 434     157.148  98.583  57.441  1.00 80.44      A16S
ATOM   9113  C5* U   A 434     157.078  99.452  58.583  1.00 80.44      A16S
ATOM   9114  C4* U   A 434     155.972 100.464  58.402  1.00 80.44      A16S
ATOM   9115  O4* U   A 434     156.323 101.353  57.315  1.00 80.44      A16S
ATOM   9116  C1* U   A 434     155.157 101.706  56.589  1.00 80.44      A16S
ATOM   9117  N1  U   A 434     155.331 101.287  55.187  1.00111.67      A16S
ATOM   9118  C6  U   A 434     156.055 100.160  54.858  1.00111.67      A16S
ATOM   9119  C2  U   A 434     154.737 102.060  54.200  1.00111.67      A16S
ATOM   9120  O2  U   A 434     154.091 103.071  54.439  1.00111.67      A16S
ATOM   9121  N3  U   A 434     154.928 101.606  52.918  1.00111.67      A16S
ATOM   9122  C4  U   A 434     155.638 100.489  52.527  1.00111.67      A16S
ATOM   9123  O4  U   A 434     155.725 100.216  51.329  1.00111.67      A16S
ATOM   9124  C5  U   A 434     156.223  99.748  53.599  1.00111.67      A16S
ATOM   9125  C2* U   A 434     153.955 101.052  57.278  1.00 80.44      A16S
ATOM   9126  O2* U   A 434     153.329 101.988  58.129  1.00 80.44      A16S
ATOM   9127  C3* U   A 434     154.610  99.897  58.028  1.00 80.44      A16S
ATOM   9128  O3* U   A 434     153.856  99.504  59.176  1.00 80.44      A16S
ATOM   9129  P   C   A 435     152.800  98.290  59.065  1.00 71.12      A16S
ATOM   9130  O1P C   A 435     152.360  97.944  60.439  1.00 97.15      A16S
ATOM   9131  O2P C   A 435     153.399  97.234  58.209  1.00 97.15      A16S
ATOM   9132  O5* C   A 435     151.547  98.925  58.307  1.00 71.12      A16S
ATOM   9133  C5* C   A 435     150.730  99.911  58.956  1.00 71.12      A16S
ATOM   9134  C4* C   A 435     149.867 100.633  57.954  1.00 71.12      A16S
ATOM   9135  O4* C   A 435     150.718 101.271  56.969  1.00 71.12      A16S
ATOM   9136  C1* C   A 435     150.087 101.235  55.698  1.00 71.12      A16S
ATOM   9137  N1  C   A 435     150.915 100.423  54.779  1.00 97.15      A16S
ATOM   9138  C6  C   A 435     151.896  99.601  55.256  1.00 97.15      A16S
ATOM   9139  C2  C   A 435     150.677 100.505  53.404  1.00 97.15      A16S
ATOM   9140  O2  C   A 435     149.778 101.250  52.992  1.00 97.15      A16S
ATOM   9141  N3  C   A 435     151.430  99.769  52.560  1.00 97.15      A16S
ATOM   9142  C4  C   A 435     152.385  98.976  53.039  1.00 97.15      A16S
ATOM   9143  N4  C   A 435     153.107  98.273  52.169  1.00 97.15      A16S
ATOM   9144  C5  C   A 435     152.646  98.868  54.430  1.00 97.15      A16S
ATOM   9145  C2* C   A 435     148.696 100.634  55.894  1.00 71.12      A16S
ATOM   9146  O2* C   A 435     147.773 101.684  56.111  1.00 71.12      A16S
ATOM   9147  C3* C   A 435     148.910  99.780  57.136  1.00 71.12      A16S
ATOM   9148  O3* C   A 435     147.687  99.528  57.817  1.00 71.12      A16S
ATOM   9149  P   C   A 436     146.834  98.213  57.454  1.00 67.91      A16S
ATOM   9150  O1P C   A 436     145.646  98.169  58.345  1.00 75.82      A16S
ATOM   9151  O2P C   A 436     147.776  97.062  57.424  1.00 75.82      A16S
ATOM   9152  O5* C   A 436     146.297  98.484  55.979  1.00 67.91      A16S
ATOM   9153  C5* C   A 436     145.379  99.565  55.726  1.00 67.91      A16S
ATOM   9154  C4* C   A 436     144.962  99.592  54.272  1.00 67.91      A16S
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ATOM   9155  O4*  C   A 436     146.095  99.906  53.423  1.00 67.91      A16S
ATOM   9156  C1*  C   A 436     145.971  99.216  52.192  1.00 67.91      A16S
ATOM   9157  N1   C   A 436     147.128  98.325  52.033  1.00 75.82      A16S
ATOM   9158  C6   C   A 436     147.934  98.016  53.092  1.00 75.82      A16S
ATOM   9159  C2   C   A 436     147.378  97.786  50.781  1.00 75.82      A16S
ATOM   9160  O2   C   A 436     146.633  98.098  49.839  1.00 75.82      A16S
ATOM   9161  N3   C   A 436     148.417  96.937  50.622  1.00 75.82      A16S
ATOM   9162  C4   C   A 436     149.185  96.622  51.665  1.00 75.82      A16S
ATOM   9163  N4   C   A 436     150.181  95.757  51.476  1.00 75.82      A16S
ATOM   9164  C5   C   A 436     148.962  97.175  52.953  1.00 75.82      A16S
ATOM   9165  C2*  C   A 436     144.660  98.431  52.219  1.00 67.91      A16S
ATOM   9166  O2*  C   A 436     143.661  99.164  51.545  1.00 67.91      A16S
ATOM   9167  C3*  C   A 436     144.413  98.294  53.716  1.00 67.91      A16S
ATOM   9168  O3*  C   A 436     143.042  98.164  54.011  1.00 67.91      A16S
ATOM   9169  P    U   A 437     142.376  96.713  53.992  1.00 85.02      A16S
ATOM   9170  O1P  U   A 437     140.986  96.851  54.496  1.00 69.88      A16S
ATOM   9171  O2P  U   A 437     143.314  95.769  54.659  1.00 69.88      A16S
ATOM   9172  O5*  U   A 437     142.325  96.355  52.440  1.00 85.02      A16S
ATOM   9173  C5*  U   A 437     141.473  97.089  51.535  1.00 85.02      A16S
ATOM   9174  C4*  U   A 437     141.696  96.631  50.107  1.00 85.02      A16S
ATOM   9175  O4*  U   A 437     143.063  96.913  49.712  1.00 85.02      A16S
ATOM   9176  C1*  U   A 437     143.516  95.909  48.822  1.00 85.02      A16S
ATOM   9177  N1   U   A 437     144.723  95.283  49.382  1.00 69.88      A16S
ATOM   9178  C6   U   A 437     144.985  95.301  50.731  1.00 69.88      A16S
ATOM   9179  C2   U   A 437     145.602  94.687  48.501  1.00 69.88      A16S
ATOM   9180  O2   U   A 437     145.390  94.612  47.309  1.00 69.88      A16S
ATOM   9181  N3   U   A 437     146.738  94.170  49.070  1.00 69.88      A16S
ATOM   9182  C4   U   A 437     147.072  94.174  50.406  1.00 69.88      A16S
ATOM   9183  O4   U   A 437     148.167  93.728  50.762  1.00 69.88      A16S
ATOM   9184  C5   U   A 437     146.096  94.779  51.258  1.00 69.88      A16S
ATOM   9185  C2*  U   A 437     142.367  94.930  48.591  1.00 85.02      A16S
ATOM   9186  O2*  U   A 437     141.657  95.330  47.443  1.00 85.02      A16S
ATOM   9187  C3*  U   A 437     141.520  95.144  49.832  1.00 85.02      A16S
ATOM   9188  O3*  U   A 437     140.169  94.819  49.556  1.00 85.02      A16S
ATOM   9189  P    G   A 438     139.649  93.324  49.810  1.00 79.47      A16S
ATOM   9190  O1P  G   A 438     138.305  93.246  49.177  1.00 89.18      A16S
ATOM   9191  O2P  G   A 438     139.799  93.001  51.253  1.00 89.18      A16S
ATOM   9192  O5*  G   A 438     140.679  92.404  49.006  1.00 79.47      A16S
ATOM   9193  C5*  G   A 438     140.610  92.261  47.559  1.00 79.47      A16S
ATOM   9194  C4*  G   A 438     141.734  91.373  47.074  1.00 79.47      A16S
ATOM   9195  O4*  G   A 438     142.938  91.923  47.645  1.00 79.47      A16S
ATOM   9196  C1*  G   A 438     143.807  90.881  48.022  1.00 79.47      A16S
ATOM   9197  N9   G   A 438     144.303  91.134  49.373  1.00 89.18      A16S
ATOM   9198  C4   G   A 438     145.513  90.733  49.895  1.00 89.18      A16S
ATOM   9199  N3   G   A 438     146.443  89.989  49.266  1.00 89.18      A16S
ATOM   9200  C2   G   A 438     147.514  89.794  50.019  1.00 89.18      A16S
ATOM   9201  N2   G   A 438     148.543  89.072  49.557  1.00 89.18      A16S
ATOM   9202  N1   G   A 438     147.658  90.290  51.285  1.00 89.18      A16S
ATOM   9203  C6   G   A 438     146.712  91.053  51.958  1.00 89.18      A16S
ATOM   9204  O6   G   A 438     146.943  91.446  53.116  1.00 89.18      A16S
ATOM   9205  C5   G   A 438     145.559  91.270  51.161  1.00 89.18      A16S
ATOM   9206  N7   G   A 438     144.397  91.970  51.441  1.00 89.18      A16S
ATOM   9207  C8   G   A 438     143.678  91.854  50.358  1.00 89.18      A16S
ATOM   9208  C2*  G   A 438     143.129  89.541  47.735  1.00 79.47      A16S
ATOM   9209  O2*  G   A 438     143.647  89.038  46.524  1.00 79.47      A16S
ATOM   9210  C3*  G   A 438     141.664  89.929  47.570  1.00 79.47      A16S
ATOM   9211  O3*  G   A 438     141.109  88.930  46.663  1.00 79.47      A16S
ATOM   9212  P    A   A 439     140.470  89.323  45.217  1.00 63.91      A16S
ATOM   9213  O1P  A   A 439     140.212  90.776  45.095  1.00 90.05      A16S
ATOM   9214  O2P  A   A 439     139.351  88.371  44.967  1.00 90.05      A16S
ATOM   9215  O5*  A   A 439     141.619  88.956  44.179  1.00 63.91      A16S
ATOM   9216  C5*  A   A 439     141.836  87.589  43.801  1.00 63.91      A16S
ATOM   9217  C4*  A   A 439     142.517  87.507  42.454  1.00 63.91      A16S
ATOM   9218  O4*  A   A 439     143.851  88.077  42.552  1.00 63.91      A16S
ATOM   9219  C1*  A   A 439     144.770  87.294  41.801  1.00 63.91      A16S
ATOM   9220  N9   A   A 439     145.729  86.706  42.735  1.00 90.05      A16S
ATOM   9221  C4   A   A 439     146.833  85.964  42.406  1.00 90.05      A16S
ATOM   9222  N3   A   A 439     147.252  85.632  41.176  1.00 90.05      A16S
ATOM   9223  C2   A   A 439     148.374  84.920  41.241  1.00 90.05      A16S
ATOM   9224  N1   A   A 439     149.070  84.532  42.317  1.00 90.05      A16S
ATOM   9225  C6   A   A 439     148.616  84.884  43.540  1.00 90.05      A16S
ATOM   9226  N6   A   A 439     149.308  84.501  44.615  1.00 90.05      A16S
ATOM   9227  C5   A   A 439     147.437  85.638  43.604  1.00 90.05      A16S
ATOM   9228  N7   A   A 439     146.721  86.157  44.671  1.00 90.05      A16S
ATOM   9229  C8   A   A 439     145.719  86.775  44.104  1.00 90.05      A16S
ATOM   9230  C2*  A   A 439     143.969  86.223  41.066  1.00 63.91      A16S
ATOM   9231  O2*  A   A 439     143.660  86.701  39.774  1.00 63.91      A16S
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ATOM   9232  C3* A   A 439     142.754  86.084  41.974  1.00 63.91      A16S
ATOM   9233  O3* A   A 439     141.611  85.557  41.325  1.00 63.91      A16S
ATOM   9234  P   A   A 440     141.153  84.047  41.636  1.00 60.69      A16S
ATOM   9235  O1P A   A 440     139.878  83.784  40.916  1.00 87.78      A16S
ATOM   9236  O2P A   A 440     141.227  83.814  43.101  1.00 87.78      A16S
ATOM   9237  O5* A   A 440     142.289  83.177  40.951  1.00 60.69      A16S
ATOM   9238  C5* A   A 440     142.539  81.852  41.398  1.00 60.69      A16S
ATOM   9239  C4* A   A 440     144.012  81.639  41.571  1.00 60.69      A16S
ATOM   9240  O4* A   A 440     144.599  82.785  42.231  1.00 60.69      A16S
ATOM   9241  C1* A   A 440     145.530  82.347  43.204  1.00 60.69      A16S
ATOM   9242  N9  A   A 440     145.026  82.759  44.517  1.00 87.78      A16S
ATOM   9243  C4  A   A 440     145.612  82.536  45.739  1.00 87.78      A16S
ATOM   9244  N3  A   A 440     146.762  81.892  45.987  1.00 87.78      A16S
ATOM   9245  C2  A   A 440     147.017  81.881  47.287  1.00 87.78      A16S
ATOM   9246  N1  A   A 440     146.308  82.401  48.292  1.00 87.78      A16S
ATOM   9247  C6  A   A 440     145.155  83.040  48.006  1.00 87.78      A16S
ATOM   9248  N6  A   A 440     144.444  83.562  49.008  1.00 87.78      A16S
ATOM   9249  C5  A   A 440     144.774  83.118  46.668  1.00 87.78      A16S
ATOM   9250  N7  A   A 440     143.675  83.690  46.050  1.00 87.78      A16S
ATOM   9251  C8  A   A 440     143.870  83.451  44.780  1.00 87.78      A16S
ATOM   9252  C2* A   A 440     145.666  80.830  43.064  1.00 60.69      A16S
ATOM   9253  O2* A   A 440     146.745  80.567  42.200  1.00 60.69      A16S
ATOM   9254  C3* A   A 440     144.318  80.458  42.464  1.00 60.69      A16S
ATOM   9255  O3* A   A 440     144.317  79.270  41.700  1.00 60.69      A16S
ATOM   9256  P   C   A 442     143.106  78.233  41.861  1.00 80.63      A16S
ATOM   9257  O1P C   A 442     143.453  77.012  41.092  1.00 76.88      A16S
ATOM   9258  O2P C   A 442     141.829  78.934  41.583  1.00 76.88      A16S
ATOM   9259  O5* C   A 442     143.156  77.860  43.405  1.00 80.63      A16S
ATOM   9260  C5* C   A 442     144.333  77.267  43.977  1.00 80.63      A16S
ATOM   9261  C4* C   A 442     144.242  77.287  45.476  1.00 80.63      A16S
ATOM   9262  O4* C   A 442     144.431  78.639  45.962  1.00 80.63      A16S
ATOM   9263  C1* C   A 442     143.603  78.858  47.094  1.00 80.63      A16S
ATOM   9264  N1  C   A 442     142.658  79.948  46.785  1.00 76.88      A16S
ATOM   9265  C6  C   A 442     142.018  80.000  45.575  1.00 76.88      A16S
ATOM   9266  C2  C   A 442     142.411  80.927  47.756  1.00 76.88      A16S
ATOM   9267  O2  C   A 442     143.015  80.868  48.839  1.00 76.88      A16S
ATOM   9268  N3  C   A 442     141.522  81.912  47.488  1.00 76.88      A16S
ATOM   9269  C4  C   A 442     140.900  81.947  46.305  1.00 76.88      A16S
ATOM   9270  N4  C   A 442     140.031  82.935  46.080  1.00 76.88      A16S
ATOM   9271  C5  C   A 442     141.142  80.970  45.298  1.00 76.88      A16S
ATOM   9272  C2* C   A 442     142.874  77.550  47.397  1.00 80.63      A16S
ATOM   9273  O2* C   A 442     143.587  76.838  48.391  1.00 80.63      A16S
ATOM   9274  C3* C   A 442     142.896  76.869  46.035  1.00 80.63      A16S
ATOM   9275  O3* C   A 442     142.766  75.463  46.115  1.00 80.63      A16S
ATOM   9276  P   C   A 443     141.301  74.814  46.169  1.00 84.49      A16S
ATOM   9277  O1P C   A 443     141.472  73.339  46.119  1.00104.83      A16S
ATOM   9278  O2P C   A 443     140.457  75.490  45.147  1.00104.83      A16S
ATOM   9279  O5* C   A 443     140.771  75.218  47.616  1.00 84.49      A16S
ATOM   9280  C5* C   A 443     141.433  74.727  48.799  1.00 84.49      A16S
ATOM   9281  C4* C   A 443     140.696  75.162  50.045  1.00 84.49      A16S
ATOM   9282  O4* C   A 443     140.835  76.590  50.226  1.00 84.49      A16S
ATOM   9283  C1* C   A 443     139.653  77.109  50.802  1.00 84.49      A16S
ATOM   9284  N1  C   A 443     139.135  78.151  49.908  1.00104.83      A16S
ATOM   9285  C6  C   A 443     139.003  77.923  48.566  1.00104.83      A16S
ATOM   9286  C2  C   A 443     138.787  79.387  50.449  1.00104.83      A16S
ATOM   9287  O2  C   A 443     138.919  79.571  51.668  1.00104.83      A16S
ATOM   9288  N3  C   A 443     138.318  80.354  49.634  1.00104.83      A16S
ATOM   9289  C4  C   A 443     138.200  80.126  48.327  1.00104.83      A16S
ATOM   9290  N4  C   A 443     137.744  81.117  47.561  1.00104.83      A16S
ATOM   9291  C5  C   A 443     138.546  78.874  47.747  1.00104.83      A16S
ATOM   9292  C2* C   A 443     138.685  75.949  51.049  1.00 84.49      A16S
ATOM   9293  O2* C   A 443     138.786  75.530  52.397  1.00 84.49      A16S
ATOM   9294  C3* C   A 443     139.198  74.900  50.070  1.00 84.49      A16S
ATOM   9295  O3* C   A 443     138.926  73.576  50.515  1.00 84.49      A16S
ATOM   9296  P   C   A 444     137.507  72.902  50.189  1.00102.35      A16S
ATOM   9297  O1P C   A 444     137.560  71.519  50.730  1.00 95.27      A16S
ATOM   9298  O2P C   A 444     137.185  73.118  48.756  1.00 95.27      A16S
ATOM   9299  O5* C   A 444     136.472  73.754  51.048  1.00102.35      A16S
ATOM   9300  C5* C   A 444     136.435  73.641  52.483  1.00102.35      A16S
ATOM   9301  C4* C   A 444     135.310  74.477  53.045  1.00102.35      A16S
ATOM   9302  O4* C   A 444     135.635  75.887  52.951  1.00102.35      A16S
ATOM   9303  C1* C   A 444     134.459  76.630  52.671  1.00102.35      A16S
ATOM   9304  N1  C   A 444     134.642  77.351  51.395  1.00 95.27      A16S
ATOM   9305  C6  C   A 444     135.664  77.031  50.545  1.00 95.27      A16S
ATOM   9306  C2  C   A 444     133.732  78.367  51.055  1.00 95.27      A16S
ATOM   9307  O2  C   A 444     132.834  78.664  51.852  1.00 95.27      A16S
ATOM   9308  N3  C   A 444     133.859  78.999  49.869  1.00 95.27      A16S
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ATOM   9309  C4  C   A 444     134.850  78.665  49.040  1.00 95.27      A16S
ATOM   9310  N4  C   A 444     134.930  79.306  47.872  1.00 95.27      A16S
ATOM   9311  C5  C   A 444     135.805  77.656  49.370  1.00 95.27      A16S
ATOM   9312  C2* C   A 444     133.286  75.649  52.622  1.00102.35      A16S
ATOM   9313  O2* C   A 444     132.618  75.646  53.863  1.00102.35      A16S
ATOM   9314  C3* C   A 444     133.991  74.335  52.311  1.00102.35      A16S
ATOM   9315  O3* C   A 444     133.272  73.195  52.742  1.00102.35      A16S
ATOM   9316  P   G   A 445     132.276  72.460  51.720  1.00 76.38      A16S
ATOM   9317  O1P G   A 445     131.883  71.165  52.328  1.00103.80      A16S
ATOM   9318  O2P G   A 445     132.892  72.478  50.365  1.00103.80      A16S
ATOM   9319  O5* G   A 445     130.994  73.404  51.708  1.00 76.38      A16S
ATOM   9320  C5* G   A 445     130.348  73.754  52.934  1.00 76.38      A16S
ATOM   9321  C4* G   A 445     129.366  74.870  52.712  1.00 76.38      A16S
ATOM   9322  O4* G   A 445     130.055  76.113  52.423  1.00 76.38      A16S
ATOM   9323  C1* G   A 445     129.250  76.911  51.565  1.00 76.38      A16S
ATOM   9324  N9  G   A 445     129.988  77.190  50.337  1.00103.80      A16S
ATOM   9325  C4  G   A 445     129.590  78.036  49.330  1.00103.80      A16S
ATOM   9326  N3  G   A 445     128.469  78.787  49.325  1.00103.80      A16S
ATOM   9327  C2  G   A 445     128.343  79.478  48.207  1.00103.80      A16S
ATOM   9328  N2  G   A 445     127.285  80.282  48.039  1.00103.80      A16S
ATOM   9329  N1  G   A 445     129.243  79.431  47.169  1.00103.80      A16S
ATOM   9330  C6  G   A 445     130.400  78.660  47.149  1.00103.80      A16S
ATOM   9331  O6  G   A 445     131.135  78.675  46.152  1.00103.80      A16S
ATOM   9332  C5  G   A 445     130.554  77.923  48.353  1.00103.80      A16S
ATOM   9333  N7  G   A 445     131.556  77.050  48.750  1.00103.80      A16S
ATOM   9334  C8  G   A 445     131.182  76.645  49.933  1.00103.80      A16S
ATOM   9335  C2* G   A 445     127.977  76.120  51.258  1.00 76.38      A16S
ATOM   9336  O2* G   A 445     126.913  76.550  52.085  1.00 76.38      A16S
ATOM   9337  C3* G   A 445     128.426  74.694  51.541  1.00 76.38      A16S
ATOM   9338  O3* G   A 445     127.347  73.839  51.836  1.00 76.38      A16S
ATOM   9339  P   G   A 446     126.630  73.049  50.640  1.00 72.25      A16S
ATOM   9340  O1P G   A 446     125.613  72.151  51.239  1.00 90.59      A16S
ATOM   9341  O2P G   A 446     127.688  72.478  49.759  1.00 90.59      A16S
ATOM   9342  O5* G   A 446     125.862  74.193  49.839  1.00 72.25      A16S
ATOM   9343  C5* G   A 446     124.883  75.019  50.498  1.00 72.25      A16S
ATOM   9344  C4* G   A 446     124.396  76.108  49.570  1.00 72.25      A16S
ATOM   9345  O4* G   A 446     125.486  77.015  49.261  1.00 72.25      A16S
ATOM   9346  C1* G   A 446     125.339  77.505  47.937  1.00 72.25      A16S
ATOM   9347  N9  G   A 446     126.513  77.117  47.161  1.00 90.59      A16S
ATOM   9348  C4  G   A 446     126.870  77.600  45.923  1.00 90.59      A16S
ATOM   9349  N3  G   A 446     126.205  78.535  45.214  1.00 90.59      A16S
ATOM   9350  C2  G   A 446     126.805  78.801  44.066  1.00 90.59      A16S
ATOM   9351  N2  G   A 446     126.291  79.726  43.242  1.00 90.59      A16S
ATOM   9352  N1  G   A 446     127.954  78.187  43.643  1.00 90.59      A16S
ATOM   9353  C6  G   A 446     128.650  77.219  44.356  1.00 90.59      A16S
ATOM   9354  O6  G   A 446     129.677  76.725  43.882  1.00 90.59      A16S
ATOM   9355  C5  G   A 446     128.028  76.934  45.592  1.00 90.59      A16S
ATOM   9356  N7  G   A 446     128.396  76.055  46.599  1.00 90.59      A16S
ATOM   9357  C8  G   A 446     127.472  76.197  47.507  1.00 90.59      A16S
ATOM   9358  C2* G   A 446     124.058  76.904  47.361  1.00 72.25      A16S
ATOM   9359  O2* G   A 446     122.980  77.803  47.514  1.00 72.25      A16S
ATOM   9360  C3* G   A 446     123.890  75.657  48.212  1.00 72.25      A16S
ATOM   9361  O3* G   A 446     122.543  75.226  48.228  1.00 72.25      A16S
ATOM   9362  P   G   A 447     122.047  74.163  47.128  1.00 70.22      A16S
ATOM   9363  O1P G   A 447     120.553  74.187  47.105  1.00 76.78      A16S
ATOM   9364  O2P G   A 447     122.767  72.869  47.329  1.00 76.78      A16S
ATOM   9365  O5* G   A 447     122.545  74.788  45.754  1.00 70.22      A16S
ATOM   9366  C5* G   A 447     121.876  75.923  45.182  1.00 70.22      A16S
ATOM   9367  C4* G   A 447     122.397  76.190  43.796  1.00 70.22      A16S
ATOM   9368  O4* G   A 447     123.740  76.739  43.865  1.00 70.22      A16S
ATOM   9369  C1* G   A 447     124.524  76.211  42.809  1.00 70.22      A16S
ATOM   9370  N9  G   A 447     125.510  75.319  43.405  1.00 76.78      A16S
ATOM   9371  C4  G   A 447     126.768  75.025  42.933  1.00 76.78      A16S
ATOM   9372  N3  G   A 447     127.338  75.517  41.812  1.00 76.78      A16S
ATOM   9373  C2  G   A 447     128.571  75.059  41.646  1.00 76.78      A16S
ATOM   9374  N2  G   A 447     129.298  75.442  40.590  1.00 76.78      A16S
ATOM   9375  N1  G   A 447     129.186  74.194  42.508  1.00 76.78      A16S
ATOM   9376  C6  G   A 447     128.618  73.681  43.665  1.00 76.78      A16S
ATOM   9377  O6  G   A 447     129.268  72.922  44.386  1.00 76.78      A16S
ATOM   9378  C5  G   A 447     127.303  74.152  43.851  1.00 76.78      A16S
ATOM   9379  N7  G   A 447     126.397  73.885  44.863  1.00 76.78      A16S
ATOM   9380  C8  G   A 447     125.353  74.598  44.559  1.00 76.78      A16S
ATOM   9381  C2* G   A 447     123.579  75.423  41.905  1.00 70.22      A16S
ATOM   9382  O2* G   A 447     123.073  76.296  40.914  1.00 70.22      A16S
ATOM   9383  C3* G   A 447     122.527  74.966  42.908  1.00 70.22      A16S
ATOM   9384  O3* G   A 447     121.278  74.571  42.366  1.00 70.22      A16S
ATOM   9385  P   A   A 448     121.218  73.468  41.194  1.00 86.67      A16S
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ATOM   9386  O1P A   A 448     119.867  72.868  41.267  1.00 55.08      A16S
ATOM   9387  O2P A   A 448     122.407  72.595  41.240  1.00 55.08      A16S
ATOM   9388  O5* A   A 448     121.214  74.389  39.902  1.00 86.67      A16S
ATOM   9389  C5* A   A 448     120.485  75.617  39.995  1.00 86.67      A16S
ATOM   9390  C4* A   A 448     120.597  76.449  38.755  1.00 86.67      A16S
ATOM   9391  O4* A   A 448     121.922  76.968  38.548  1.00 86.67      A16S
ATOM   9392  C1* A   A 448     121.993  77.444  37.228  1.00 86.67      A16S
ATOM   9393  N9  A   A 448     123.253  77.028  36.629  1.00 55.08      A16S
ATOM   9394  C4  A   A 448     123.847  77.682  35.582  1.00 55.08      A16S
ATOM   9395  N3  A   A 448     123.398  78.781  34.954  1.00 55.08      A16S
ATOM   9396  C2  A   A 448     124.228  79.137  33.996  1.00 55.08      A16S
ATOM   9397  N1  A   A 448     125.374  78.573  33.624  1.00 55.08      A16S
ATOM   9398  C6  A   A 448     125.804  77.478  34.288  1.00 55.08      A16S
ATOM   9399  N6  A   A 448     126.970  76.932  33.942  1.00 55.08      A16S
ATOM   9400  C5  A   A 448     125.004  76.988  35.314  1.00 55.08      A16S
ATOM   9401  N7  A   A 448     125.140  75.904  36.172  1.00 55.08      A16S
ATOM   9402  C8  A   A 448     124.076  75.973  36.933  1.00 55.08      A16S
ATOM   9403  C2* A   A 448     120.759  76.935  36.476  1.00 86.67      A16S
ATOM   9404  O2* A   A 448     119.858  78.020  36.379  1.00 86.67      A16S
ATOM   9405  C3* A   A 448     120.229  75.858  37.417  1.00 86.67      A16S
ATOM   9406  O3* A   A 448     118.818  75.776  37.337  1.00 86.67      A16S
ATOM   9407  P   C   A 449     118.130  74.924  36.172  1.00 50.12      A16S
ATOM   9408  O1P C   A 449     116.725  74.688  36.609  1.00 67.55      A16S
ATOM   9409  O2P C   A 449     118.994  73.766  35.810  1.00 67.55      A16S
ATOM   9410  O5* C   A 449     118.096  75.942  34.949  1.00 50.12      A16S
ATOM   9411  C5* C   A 449     117.318  77.145  35.024  1.00 50.12      A16S
ATOM   9412  C4* C   A 449     117.694  78.093  33.910  1.00 50.12      A16S
ATOM   9413  O4* C   A 449     119.093  78.456  34.029  1.00 50.12      A16S
ATOM   9414  C1* C   A 449     119.618  78.733  32.744  1.00 50.12      A16S
ATOM   9415  N1  C   A 449     120.842  77.947  32.515  1.00 67.55      A16S
ATOM   9416  C6  C   A 449     121.066  76.762  33.157  1.00 67.55      A16S
ATOM   9417  C2  C   A 449     121.782  78.445  31.617  1.00 67.55      A16S
ATOM   9418  O2  C   A 449     121.555  79.524  31.045  1.00 67.55      A16S
ATOM   9419  N3  C   A 449     122.914  77.750  31.389  1.00 67.55      A16S
ATOM   9420  C4  C   A 449     123.129  76.604  32.026  1.00 67.55      A16S
ATOM   9421  N4  C   A 449     124.267  75.967  31.778  1.00 67.55      A16S
ATOM   9422  C5  C   A 449     122.187  76.066  32.946  1.00 67.55      A16S
ATOM   9423  C2* C   A 449     118.521  78.477  31.717  1.00 50.12      A16S
ATOM   9424  O2* C   A 449     117.964  79.731  31.399  1.00 50.12      A16S
ATOM   9425  C3* C   A 449     117.570  77.570  32.490  1.00 50.12      A16S
ATOM   9426  O3* C   A 449     116.232  77.627  32.010  1.00 50.12      A16S
ATOM   9427  P   G   A 450     115.559  76.288  31.422  1.00 54.44      A16S
ATOM   9428  O1P G   A 450     114.123  76.542  31.081  1.00 54.50      A16S
ATOM   9429  O2P G   A 450     115.899  75.192  32.366  1.00 54.50      A16S
ATOM   9430  O5* G   A 450     116.414  75.973  30.111  1.00 54.44      A16S
ATOM   9431  C5* G   A 450     116.520  76.914  29.020  1.00 54.44      A16S
ATOM   9432  C4* G   A 450     117.708  76.571  28.143  1.00 54.44      A16S
ATOM   9433  O4* G   A 450     118.923  76.753  28.906  1.00 54.44      A16S
ATOM   9434  C1* G   A 450     119.876  75.775  28.538  1.00 54.44      A16S
ATOM   9435  N9  G   A 450     120.137  74.934  29.699  1.00 54.50      A16S
ATOM   9436  C4  G   A 450     121.302  74.273  29.981  1.00 54.50      A16S
ATOM   9437  N3  G   A 450     122.424  74.297  29.237  1.00 54.50      A16S
ATOM   9438  C2  G   A 450     123.372  73.542  29.754  1.00 54.50      A16S
ATOM   9439  N2  G   A 450     124.551  73.426  29.134  1.00 54.50      A16S
ATOM   9440  N1  G   A 450     123.232  72.835  30.916  1.00 54.50      A16S
ATOM   9441  C6  G   A 450     122.085  72.794  31.699  1.00 54.50      A16S
ATOM   9442  O6  G   A 450     122.066  72.110  32.733  1.00 54.50      A16S
ATOM   9443  C5  G   A 450     121.060  73.589  31.152  1.00 54.50      A16S
ATOM   9444  N7  G   A 450     119.771  73.826  31.606  1.00 54.50      A16S
ATOM   9445  C8  G   A 450     119.262  74.631  30.715  1.00 54.50      A16S
ATOM   9446  C2* G   A 450     119.281  74.953  27.402  1.00 54.44      A16S
ATOM   9447  O2* G   A 450     119.707  75.474  26.159  1.00 54.44      A16S
ATOM   9448  C3* G   A 450     117.791  75.137  27.638  1.00 54.44      A16S
ATOM   9449  O3* G   A 450     117.072  74.933  26.432  1.00 54.44      A16S
ATOM   9450  P   A   A 451     116.681  73.444  25.988  1.00 44.55      A16S
ATOM   9451  O1P A   A 451     117.786  72.532  26.379  1.00 58.99      A16S
ATOM   9452  O2P A   A 451     116.224  73.477  24.573  1.00 58.99      A16S
ATOM   9453  O5* A   A 451     115.443  73.109  26.920  1.00 44.55      A16S
ATOM   9454  C5* A   A 451     114.091  73.275  26.454  1.00 44.55      A16S
ATOM   9455  C4* A   A 451     113.130  73.010  27.586  1.00 44.55      A16S
ATOM   9456  O4* A   A 451     113.298  71.639  28.040  1.00 44.55      A16S
ATOM   9457  C1* A   A 451     113.770  71.621  29.369  1.00 44.55      A16S
ATOM   9458  N9  A   A 451     114.807  70.596  29.452  1.00 58.99      A16S
ATOM   9459  C4  A   A 451     115.105  69.810  30.534  1.00 58.99      A16S
ATOM   9460  N3  A   A 451     114.502  69.811  31.732  1.00 58.99      A16S
ATOM   9461  C2  A   A 451     115.080  68.933  32.544  1.00 58.99      A16S
ATOM   9462  N1  A   A 451     116.114  68.117  32.312  1.00 58.99      A16S
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ATOM   9463  C6  A   A 451     116.693  68.142  31.095  1.00 58.99      A16S
ATOM   9464  N6  A   A 451     117.733  67.338  30.862  1.00 58.99      A16S
ATOM   9465  C5  A   A 451     116.170  69.023  30.145  1.00 58.99      A16S
ATOM   9466  N7  A   A 451     116.526  69.292  28.837  1.00 58.99      A16S
ATOM   9467  C8  A   A 451     115.689  70.228  28.471  1.00 58.99      A16S
ATOM   9468  C2* A   A 451     114.288  73.027  29.671  1.00 44.55      A16S
ATOM   9469  O2* A   A 451     114.192  73.348  31.041  1.00 44.55      A16S
ATOM   9470  C3* A   A 451     113.393  73.897  28.788  1.00 44.55      A16S
ATOM   9471  O3* A   A 451     112.149  74.204  29.398  1.00 44.55      A16S
ATOM   9472  P   A   A 452     111.577  75.700  29.325  1.00 53.93      A16S
ATOM   9473  O1P A   A 452     112.377  76.463  28.330  1.00 60.14      A16S
ATOM   9474  O2P A   A 452     111.446  76.230  30.715  1.00 60.14      A16S
ATOM   9475  O5* A   A 452     110.141  75.505  28.670  1.00 53.93      A16S
ATOM   9476  C5* A   A 452     109.180  74.593  29.214  1.00 53.93      A16S
ATOM   9477  C4* A   A 452     108.571  73.773  28.103  1.00 53.93      A16S
ATOM   9478  O4* A   A 452     109.567  72.837  27.619  1.00 53.93      A16S
ATOM   9479  C1* A   A 452     109.049  71.522  27.662  1.00 53.93      A16S
ATOM   9480  N9  A   A 452     110.164  70.611  27.894  1.00 60.14      A16S
ATOM   9481  C4  A   A 452     110.851  69.999  26.881  1.00 60.14      A16S
ATOM   9482  N3  A   A 452     110.596  70.082  25.564  1.00 60.14      A16S
ATOM   9483  C2  A   A 452     111.483  69.378  24.874  1.00 60.14      A16S
ATOM   9484  N1  A   A 452     112.520  68.661  25.315  1.00 60.14      A16S
ATOM   9485  C6  A   A 452     112.753  68.610  26.644  1.00 60.14      A16S
ATOM   9486  N6  A   A 452     113.806  67.921  27.078  1.00 60.14      A16S
ATOM   9487  C5  A   A 452     111.873  69.299  27.487  1.00 60.14      A16S
ATOM   9488  N7  A   A 452     111.812  69.438  28.865  1.00 60.14      A16S
ATOM   9489  C8  A   A 452     110.775  70.217  29.055  1.00 60.14      A16S
ATOM   9490  C2* A   A 452     107.933  71.545  28.700  1.00 53.93      A16S
ATOM   9491  O2* A   A 452     107.008  70.506  28.473  1.00 53.93      A16S
ATOM   9492  C3* A   A 452     107.347  72.932  28.453  1.00 53.93      A16S
ATOM   9493  O3* A   A 452     106.538  72.890  27.279  1.00 53.93      A16S
ATOM   9494  P   A   A 453     104.966  72.592  27.390  1.00 53.96      A16S
ATOM   9495  O1P A   A 453     104.266  73.894  27.519  1.00 64.97      A16S
ATOM   9496  O2P A   A 453     104.727  71.517  28.405  1.00 64.97      A16S
ATOM   9497  O5* A   A 453     104.602  72.032  25.952  1.00 53.96      A16S
ATOM   9498  C5* A   A 453     104.427  70.628  25.739  1.00 53.96      A16S
ATOM   9499  C4* A   A 453     105.369  70.157  24.670  1.00 53.96      A16S
ATOM   9500  O4* A   A 453     106.728  70.163  25.169  1.00 53.96      A16S
ATOM   9501  C1* A   A 453     107.443  69.107  24.564  1.00 53.96      A16S
ATOM   9502  N9  A   A 453     108.042  68.287  25.613  1.00 64.97      A16S
ATOM   9503  C4  A   A 453     109.070  67.396  25.446  1.00 64.97      A16S
ATOM   9504  N3  A   A 453     109.694  67.083  24.302  1.00 64.97      A16S
ATOM   9505  C2  A   A 453     110.657  66.199  24.529  1.00 64.97      A16S
ATOM   9506  N1  A   A 453     111.044  65.642  25.682  1.00 64.97      A16S
ATOM   9507  C6  A   A 453     110.399  65.990  26.811  1.00 64.97      A16S
ATOM   9508  N6  A   A 453     110.801  65.461  27.964  1.00 64.97      A16S
ATOM   9509  C5  A   A 453     109.349  66.901  26.704  1.00 64.97      A16S
ATOM   9510  N7  A   A 453     108.492  67.443  27.644  1.00 64.97      A16S
ATOM   9511  C8  A   A 453     107.735  68.253  26.947  1.00 64.97      A16S
ATOM   9512  C2* A   A 453     106.490  68.350  23.630  1.00 53.96      A16S
ATOM   9513  O2* A   A 453     106.645  68.829  22.306  1.00 53.96      A16S
ATOM   9514  C3* A   A 453     105.128  68.743  24.178  1.00 53.96      A16S
ATOM   9515  O3* A   A 453     104.163  68.779  23.135  1.00 53.96      A16S
ATOM   9516  P   C   A 454     102.916  67.774  23.168  1.00 55.82      A16S
ATOM   9517  O1P C   A 454     102.026  68.141  22.034  1.00 77.91      A16S
ATOM   9518  O2P C   A 454     102.371  67.735  24.546  1.00 77.91      A16S
ATOM   9519  O5* C   A 454     103.567  66.355  22.867  1.00 55.82      A16S
ATOM   9520  C5* C   A 454     104.136  66.090  21.585  1.00 55.82      A16S
ATOM   9521  C4* C   A 454     105.035  64.892  21.640  1.00 55.82      A16S
ATOM   9522  O4* C   A 454     106.159  65.126  22.519  1.00 55.82      A16S
ATOM   9523  C1* C   A 454     106.692  63.879  22.907  1.00 55.82      A16S
ATOM   9524  N1  C   A 454     107.035  63.899  24.332  1.00 77.91      A16S
ATOM   9525  C6  C   A 454     106.134  64.311  25.271  1.00 77.91      A16S
ATOM   9526  C2  C   A 454     108.310  63.473  24.717  1.00 77.91      A16S
ATOM   9527  O2  C   A 454     109.116  63.110  23.844  1.00 77.91      A16S
ATOM   9528  N3  C   A 454     108.636  63.465  26.025  1.00 77.91      A16S
ATOM   9529  C4  C   A 454     107.744  63.860  26.934  1.00 77.91      A16S
ATOM   9530  N4  C   A 454     108.105  63.823  28.216  1.00 77.91      A16S
ATOM   9531  C5  C   A 454     106.443  64.306  26.571  1.00 77.91      A16S
ATOM   9532  C2* C   A 454     105.673  62.806  22.535  1.00 55.82      A16S
ATOM   9533  O2* C   A 454     106.197  62.146  21.406  1.00 55.82      A16S
ATOM   9534  C3* C   A 454     104.430  63.636  22.215  1.00 55.82      A16S
ATOM   9535  O3* C   A 454     103.597  63.014  21.255  1.00 55.82      A16S
ATOM   9536  P   C   A 455     102.046  62.779  21.592  1.00 72.28      A16S
ATOM   9537  O1P C   A 455     101.423  62.040  20.464  1.00 83.12      A16S
ATOM   9538  O2P C   A 455     101.478  64.079  22.013  1.00 83.12      A16S
ATOM   9539  O5* C   A 455     102.086  61.830  22.866  1.00 72.28      A16S
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ATOM   9540  C5* C   A 455     102.783  60.580  22.825  1.00 72.28      A16S
ATOM   9541  C4* C   A 455     102.909  60.024  24.214  1.00 72.28      A16S
ATOM   9542  O4* C   A 455     103.847  60.818  24.975  1.00 72.28      A16S
ATOM   9543  C1* C   A 455     103.409  60.911  26.320  1.00 72.28      A16S
ATOM   9544  N1  C   A 455     103.245  62.336  26.669  1.00 83.12      A16S
ATOM   9545  C6  C   A 455     102.965  63.271  25.709  1.00 83.12      A16S
ATOM   9546  C2  C   A 455     103.389  62.721  28.009  1.00 83.12      A16S
ATOM   9547  O2  C   A 455     103.618  61.853  28.864  1.00 83.12      A16S
ATOM   9548  N3  C   A 455     103.270  64.022  28.337  1.00 83.12      A16S
ATOM   9549  C4  C   A 455     103.008  64.926  27.394  1.00 83.12      A16S
ATOM   9550  N4  C   A 455     102.908  66.198  27.767  1.00 83.12      A16S
ATOM   9551  C5  C   A 455     102.839  64.563  26.025  1.00 83.12      A16S
ATOM   9552  C2* C   A 455     102.122  60.096  26.458  1.00 72.28      A16S
ATOM   9553  O2* C   A 455     102.439  58.812  26.951  1.00 72.28      A16S
ATOM   9554  C3* C   A 455     101.625  60.065  25.020  1.00 72.28      A16S
ATOM   9555  O3* C   A 455     100.824  58.934  24.746  1.00 72.28      A16S
ATOM   9556  P   C   A 456      99.234  59.051  24.856  1.00 78.20      A16S
ATOM   9557  O1P C   A 456      98.687  57.726  24.481  1.00 98.72      A16S
ATOM   9558  O2P C   A 456      98.795  60.257  24.113  1.00 98.72      A16S
ATOM   9559  O5* C   A 456      99.015  59.296  26.413  1.00 78.20      A16S
ATOM   9560  C5* C   A 456      99.316  58.259  27.363  1.00 78.20      A16S
ATOM   9561  C4* C   A 456      98.976  58.713  28.758  1.00 78.20      A16S
ATOM   9562  O4* C   A 456      99.909  59.743  29.158  1.00 78.20      A16S
ATOM   9563  C1* C   A 456      99.238  60.719  29.936  1.00 78.20      A16S
ATOM   9564  N1  C   A 456      99.327  62.018  29.237  1.00 98.72      A16S
ATOM   9565  C6  C   A 456      99.191  62.097  27.877  1.00 98.72      A16S
ATOM   9566  C2  C   A 456      99.549  63.179  29.992  1.00 98.72      A16S
ATOM   9567  O2  C   A 456      99.677  63.084  31.223  1.00 98.72      A16S
ATOM   9568  N3  C   A 456      99.620  64.371  29.364  1.00 98.72      A16S
ATOM   9569  C4  C   A 456      99.482  64.436  28.039  1.00 98.72      A16S
ATOM   9570  N4  C   A 456      99.557  65.638  27.464  1.00 98.72      A16S
ATOM   9571  C5  C   A 456      99.260  63.272  27.244  1.00 98.72      A16S
ATOM   9572  C2* C   A 456      97.797  60.250  30.136  1.00 78.20      A16S
ATOM   9573  O2* C   A 456      97.716  59.569  31.367  1.00 78.20      A16S
ATOM   9574  C3* C   A 456      97.602  59.343  28.927  1.00 78.20      A16S
ATOM   9575  O3* C   A 456      96.583  58.368  29.113  1.00 78.20      A16S
ATOM   9576  P   C   A 457      95.098  58.656  28.561  1.00 84.63      A16S
ATOM   9577  O1P C   A 457      94.301  57.408  28.731  1.00109.80      A16S
ATOM   9578  O2P C   A 457      95.204  59.275  27.214  1.00109.80      A16S
ATOM   9579  O5* C   A 457      94.537  59.755  29.571  1.00 84.63      A16S
ATOM   9580  C5* C   A 457      94.324  59.426  30.954  1.00 84.63      A16S
ATOM   9581  C4* C   A 457      93.806  60.619  31.715  1.00 84.63      A16S
ATOM   9582  O4* C   A 457      94.869  61.578  31.925  1.00 84.63      A16S
ATOM   9583  C1* C   A 457      94.325  62.888  31.924  1.00 84.63      A16S
ATOM   9584  N1  C   A 457      94.977  63.683  30.862  1.00109.80      A16S
ATOM   9585  C6  C   A 457      95.621  63.075  29.819  1.00109.80      A16S
ATOM   9586  C2  C   A 457      94.915  65.082  30.933  1.00109.80      A16S
ATOM   9587  O2  C   A 457      94.340  65.615  31.898  1.00109.80      A16S
ATOM   9588  N3  C   A 457      95.481  65.816  29.950  1.00109.80      A16S
ATOM   9589  C4  C   A 457      96.094  65.210  28.933  1.00109.80      A16S
ATOM   9590  N4  C   A 457      96.624  65.973  27.983  1.00109.80      A16S
ATOM   9591  C5  C   A 457      96.187  63.794  28.844  1.00109.80      A16S
ATOM   9592  C2* C   A 457      92.812  62.773  31.724  1.00 84.63      A16S
ATOM   9593  O2* C   A 457      92.184  62.833  32.985  1.00 84.63      A16S
ATOM   9594  C3* C   A 457      92.684  61.407  31.062  1.00 84.63      A16S
ATOM   9595  O3* C   A 457      91.415  60.811  31.304  1.00 84.63      A16S
ATOM   9596  P   C   A 458      90.191  61.103  30.303  1.00 78.20      A16S
ATOM   9597  O1P C   A 458      89.033  60.316  30.799  1.00 93.99      A16S
ATOM   9598  O2P C   A 458      90.641  60.926  28.894  1.00 93.99      A16S
ATOM   9599  O5* C   A 458      89.889  62.654  30.528  1.00 78.20      A16S
ATOM   9600  C5* C   A 458      89.300  63.133  31.758  1.00 78.20      A16S
ATOM   9601  C4* C   A 458      88.895  64.581  31.614  1.00 78.20      A16S
ATOM   9602  O4* C   A 458      90.072  65.432  31.624  1.00 78.20      A16S
ATOM   9603  C1* C   A 458      89.904  66.492  30.689  1.00 78.20      A16S
ATOM   9604  N1  C   A 458      90.969  66.392  29.665  1.00 93.99      A16S
ATOM   9605  C6  C   A 458      91.691  65.238  29.521  1.00 93.99      A16S
ATOM   9606  C2  C   A 458      91.229  67.496  28.831  1.00 93.99      A16S
ATOM   9607  O2  C   A 458      90.572  68.536  28.978  1.00 93.99      A16S
ATOM   9608  N3  C   A 458      92.191  67.392  27.884  1.00 93.99      A16S
ATOM   9609  C4  C   A 458      92.883  66.255  27.755  1.00 93.99      A16S
ATOM   9610  N4  C   A 458      93.820  66.194  26.807  1.00 93.99      A16S
ATOM   9611  C5  C   A 458      92.645  65.129  28.590  1.00 93.99      A16S
ATOM   9612  C2* C   A 458      88.498  66.374  30.091  1.00 78.20      A16S
ATOM   9613  O2* C   A 458      87.609  67.240  30.761  1.00 78.20      A16S
ATOM   9614  C3* C   A 458      88.188  64.899  30.309  1.00 78.20      A16S
ATOM   9615  O3* C   A 458      86.799  64.630  30.377  1.00 78.20      A16S
ATOM   9616  P   G   A 459      86.053  64.047  29.085  1.00 76.19      A16S
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ATOM   9617  O1P G   A 459      84.636  63.784  29.420  1.00 85.95      A16S
ATOM   9618  O2P G   A 459      86.896  62.941  28.566  1.00 85.95      A16S
ATOM   9619  O5* G   A 459      86.092  65.257  28.046  1.00 76.19      A16S
ATOM   9620  C5* G   A 459      85.439  66.515  28.337  1.00 76.19      A16S
ATOM   9621  C4* G   A 459      85.905  67.597  27.379  1.00 76.19      A16S
ATOM   9622  O4* G   A 459      87.311  67.892  27.606  1.00 76.19      A16S
ATOM   9623  C1* G   A 459      87.948  68.182  26.372  1.00 76.19      A16S
ATOM   9624  N9  G   A 459      88.991  67.181  26.158  1.00 85.95      A16S
ATOM   9625  C4  G   A 459      89.935  67.158  25.152  1.00 85.95      A16S
ATOM   9626  N3  G   A 459      90.077  68.072  24.169  1.00 85.95      A16S
ATOM   9627  C2  G   A 459      91.078  67.774  23.362  1.00 85.95      A16S
ATOM   9628  N2  G   A 459      91.378  68.580  22.344  1.00 85.95      A16S
ATOM   9629  N1  G   A 459      91.865  66.665  23.497  1.00 85.95      A16S
ATOM   9630  C6  G   A 459      91.738  65.711  24.494  1.00 85.95      A16S
ATOM   9631  O6  G   A 459      92.506  64.742  24.523  1.00 85.95      A16S
ATOM   9632  C5  G   A 459      90.678  66.020  25.376  1.00 85.95      A16S
ATOM   9633  N7  G   A 459      90.218  65.344  26.497  1.00 85.95      A16S
ATOM   9634  C8  G   A 459      89.221  66.065  26.925  1.00 85.95      A16S
ATOM   9635  C2* G   A 459      86.873  68.168  25.281  1.00 76.19      A16S
ATOM   9636  O2* G   A 459      86.409  69.485  25.051  1.00 76.19      A16S
ATOM   9637  C3* G   A 459      85.810  67.264  25.899  1.00 76.19      A16S
ATOM   9638  O3* G   A 459      84.513  67.516  25.370  1.00 76.19      A16S
ATOM   9639  P   A   A 460      83.717  66.332  24.639  1.00 99.72      A16S
ATOM   9640  O1P A   A 460      82.682  66.934  23.763  1.00 99.15      A16S
ATOM   9641  O2P A   A 460      83.318  65.370  25.692  1.00 99.15      A16S
ATOM   9642  O5* A   A 460      84.822  65.651  23.715  1.00 99.72      A16S
ATOM   9643  C5* A   A 460      84.683  64.287  23.264  1.00 99.72      A16S
ATOM   9644  C4* A   A 460      85.472  64.078  21.994  1.00 99.72      A16S
ATOM   9645  O4* A   A 460      85.044  65.077  21.049  1.00 99.72      A16S
ATOM   9646  C1* A   A 460      86.129  65.455  20.237  1.00 99.72      A16S
ATOM   9647  N9  A   A 460      86.052  66.904  20.015  1.00 99.15      A16S
ATOM   9648  C4  A   A 460      86.421  67.589  18.878  1.00 99.15      A16S
ATOM   9649  N3  A   A 460      87.012  67.093  17.777  1.00 99.15      A16S
ATOM   9650  C2  A   A 460      87.185  68.048  16.867  1.00 99.15      A16S
ATOM   9651  N1  A   A 460      86.858  69.343  16.925  1.00 99.15      A16S
ATOM   9652  C6  A   A 460      86.265  69.809  18.043  1.00 99.15      A16S
ATOM   9653  N6  A   A 460      85.933  71.099  18.098  1.00 99.15      A16S
ATOM   9654  C5  A   A 460      86.032  68.900  19.085  1.00 99.15      A16S
ATOM   9655  N7  A   A 460      85.469  69.053  20.344  1.00 99.15      A16S
ATOM   9656  C8  A   A 460      85.520  67.849  20.861  1.00 99.15      A16S
ATOM   9657  C2* A   A 460      87.410  64.774  20.745  1.00 99.72      A16S
ATOM   9658  O2* A   A 460      87.782  63.750  19.839  1.00 99.72      A16S
ATOM   9659  C3* A   A 460      86.987  64.217  22.111  1.00 99.72      A16S
ATOM   9660  O3* A   A 460      87.496  62.876  22.286  1.00 99.72      A16S
ATOM   9661  P   C   A 461      88.825  62.598  23.156  1.00 99.51      A16S
ATOM   9662  O1P C   A 461      88.586  61.369  23.958  1.00157.06      A16S
ATOM   9663  O2P C   A 461      89.233  63.849  23.845  1.00157.06      A16S
ATOM   9664  O5* C   A 461      89.929  62.260  22.060  1.00 99.51      A16S
ATOM   9665  C5* C   A 461      90.404  63.272  21.148  1.00 99.51      A16S
ATOM   9666  C4* C   A 461      91.914  63.296  21.145  1.00 99.51      A16S
ATOM   9667  O4* C   A 461      92.401  61.947  20.919  1.00 99.51      A16S
ATOM   9668  C1* C   A 461      93.261  61.933  19.800  1.00 99.51      A16S
ATOM   9669  N1  C   A 461      93.071  60.653  19.086  1.00157.06      A16S
ATOM   9670  C6  C   A 461      91.843  60.290  18.600  1.00157.06      A16S
ATOM   9671  C2  C   A 461      94.180  59.800  18.916  1.00157.06      A16S
ATOM   9672  O2  C   A 461      95.288  60.144  19.365  1.00157.06      A16S
ATOM   9673  N3  C   A 461      94.013  58.622  18.270  1.00157.06      A16S
ATOM   9674  C4  C   A 461      92.809  58.279  17.806  1.00157.06      A16S
ATOM   9675  N4  C   A 461      92.694  57.102  17.183  1.00157.06      A16S
ATOM   9676  C5  C   A 461      91.669  59.124  17.962  1.00157.06      A16S
ATOM   9677  C2* C   A 461      92.947  63.197  18.995  1.00 99.51      A16S
ATOM   9678  O2* C   A 461      94.054  63.591  18.210  1.00 99.51      A16S
ATOM   9679  C3* C   A 461      92.588  64.187  20.104  1.00 99.51      A16S
ATOM   9680  O3* C   A 461      93.769  64.717  20.716  1.00 99.51      A16S
ATOM   9681  P   G   A 462      94.485  66.039  20.134  1.00 65.07      A16S
ATOM   9682  O1P G   A 462      95.616  65.565  19.309  1.00 81.04      A16S
ATOM   9683  O2P G   A 462      94.758  66.922  21.294  1.00 81.04      A16S
ATOM   9684  O5* G   A 462      93.412  66.751  19.185  1.00 65.07      A16S
ATOM   9685  C5* G   A 462      93.713  67.030  17.799  1.00 65.07      A16S
ATOM   9686  C4* G   A 462      93.033  68.311  17.330  1.00 65.07      A16S
ATOM   9687  O4* G   A 462      91.588  68.153  17.329  1.00 65.07      A16S
ATOM   9688  C1* G   A 462      90.969  69.398  17.616  1.00 65.07      A16S
ATOM   9689  N9  G   A 462      90.141  69.226  18.810  1.00 81.04      A16S
ATOM   9690  C4  G   A 462      89.358  70.180  19.423  1.00 81.04      A16S
ATOM   9691  N3  G   A 462      89.182  71.455  19.009  1.00 81.04      A16S
ATOM   9692  C2  G   A 462      88.385  72.135  19.824  1.00 81.04      A16S
ATOM   9693  N2  G   A 462      88.096  73.416  19.564  1.00 81.04      A16S
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ATOM   9694  N1  G   A 462      87.814  71.610  20.957  1.00 81.04      A16S
ATOM   9695  C6  G   A 462      87.986  70.303  21.406  1.00 81.04      A16S
ATOM   9696  O6  G   A 462      87.440  69.934  22.457  1.00 81.04      A16S
ATOM   9697  C5  G   A 462      88.827  69.556  20.533  1.00 81.04      A16S
ATOM   9698  N7  G   A 462      89.239  68.235  20.599  1.00 81.04      A16S
ATOM   9699  C8  G   A 462      90.010  68.083  19.559  1.00 81.04      A16S
ATOM   9700  C2* G   A 462      92.081  70.445  17.786  1.00 65.07      A16S
ATOM   9701  O2* G   A 462      92.284  71.161  16.585  1.00 65.07      A16S
ATOM   9702  C3* G   A 462      93.293  69.584  18.123  1.00 65.07      A16S
ATOM   9703  O3* G   A 462      94.482  70.233  17.689  1.00 65.07      A16S
ATOM   9704  P   A   A 463      95.343  71.104  18.727  1.00 68.47      A16S
ATOM   9705  O1P A   A 463      96.504  71.638  17.974  1.00 81.24      A16S
ATOM   9706  O2P A   A 463      95.574  70.302  19.955  1.00 81.24      A16S
ATOM   9707  O5* A   A 463      94.379  72.316  19.102  1.00 68.47      A16S
ATOM   9708  C5* A   A 463      94.112  73.374  18.159  1.00 68.47      A16S
ATOM   9709  C4* A   A 463      93.234  74.438  18.786  1.00 68.47      A16S
ATOM   9710  O4* A   A 463      91.894  73.916  18.993  1.00 68.47      A16S
ATOM   9711  C1* A   A 463      91.332  74.489  20.161  1.00 68.47      A16S
ATOM   9712  N9  A   A 463      91.076  73.420  21.123  1.00 81.24      A16S
ATOM   9713  C4  A   A 463      90.131  73.426  22.120  1.00 81.24      A16S
ATOM   9714  N3  A   A 463      89.234  74.387  22.387  1.00 81.24      A16S
ATOM   9715  C2  A   A 463      88.478  74.045  23.425  1.00 81.24      A16S
ATOM   9716  N1  A   A 463      88.515  72.936  24.169  1.00 81.24      A16S
ATOM   9717  C6  A   A 463      89.428  71.991  23.871  1.00 81.24      A16S
ATOM   9718  N6  A   A 463      89.465  70.881  24.610  1.00 81.24      A16S
ATOM   9719  C5  A   A 463      90.289  72.233  22.793  1.00 81.24      A16S
ATOM   9720  N7  A   A 463      91.305  71.482  22.227  1.00 81.24      A16S
ATOM   9721  C8  A   A 463      91.734  72.225  21.239  1.00 81.24      A16S
ATOM   9722  C2* A   A 463      92.348  75.479  20.724  1.00 68.47      A16S
ATOM   9723  O2* A   A 463      92.027  76.766  20.254  1.00 68.47      A16S
ATOM   9724  C3* A   A 463      93.653  74.943  20.155  1.00 68.47      A16S
ATOM   9725  O3* A   A 463      94.654  75.940  20.092  1.00 68.47      A16S
ATOM   9726  P   G   A 474      95.840  75.933  21.176  1.00 56.01      A16S
ATOM   9727  O1P G   A 474      96.653  77.161  20.989  1.00 80.55      A16S
ATOM   9728  O2P G   A 474      96.487  74.598  21.104  1.00 80.55      A16S
ATOM   9729  O5* G   A 474      95.109  76.043  22.586  1.00 56.01      A16S
ATOM   9730  C5* G   A 474      94.206  77.129  22.874  1.00 56.01      A16S
ATOM   9731  C4* G   A 474      93.414  76.852  24.139  1.00 56.01      A16S
ATOM   9732  O4* G   A 474      92.390  75.843  23.907  1.00 56.01      A16S
ATOM   9733  C1* G   A 474      92.215  75.070  25.087  1.00 56.01      A16S
ATOM   9734  N9  G   A 474      92.587  73.684  24.806  1.00 80.55      A16S
ATOM   9735  C4  G   A 474      92.344  72.588  25.610  1.00 80.55      A16S
ATOM   9736  N3  G   A 474      91.700  72.597  26.795  1.00 80.55      A16S
ATOM   9737  C2  G   A 474      91.645  71.394  27.338  1.00 80.55      A16S
ATOM   9738  N2  G   A 474      91.057  71.221  28.528  1.00 80.55      A16S
ATOM   9739  N1  G   A 474      92.168  70.271  26.762  1.00 80.55      A16S
ATOM   9740  C6  G   A 474      92.831  70.234  25.544  1.00 80.55      A16S
ATOM   9741  O6  G   A 474      93.261  69.159  25.113  1.00 80.55      A16S
ATOM   9742  C5  G   A 474      92.909  71.523  24.953  1.00 80.55      A16S
ATOM   9743  N7  G   A 474      93.491  71.931  23.762  1.00 80.55      A16S
ATOM   9744  C8  G   A 474      93.270  73.216  23.716  1.00 80.55      A16S
ATOM   9745  C2* G   A 474      93.141  75.643  26.159  1.00 56.01      A16S
ATOM   9746  O2* G   A 474      92.450  76.563  26.972  1.00 56.01      A16S
ATOM   9747  C3* G   A 474      94.209  76.311  25.314  1.00 56.01      A16S
ATOM   9748  O3* G   A 474      94.904  77.301  26.040  1.00 56.01      A16S
ATOM   9749  P   G   A 475      96.146  76.862  26.963  1.00 76.77      A16S
ATOM   9750  O1P G   A 475      96.760  78.112  27.486  1.00104.39      A16S
ATOM   9751  O2P G   A 475      96.980  75.898  26.192  1.00104.39      A16S
ATOM   9752  O5* G   A 475      95.476  76.071  28.178  1.00 76.77      A16S
ATOM   9753  C5* G   A 475      94.677  76.762  29.156  1.00 76.77      A16S
ATOM   9754  C4* G   A 475      94.134  75.795  30.178  1.00 76.77      A16S
ATOM   9755  O4* G   A 475      93.297  74.816  29.515  1.00 76.77      A16S
ATOM   9756  C1* G   A 475      93.439  73.555  30.155  1.00 76.77      A16S
ATOM   9757  N9  G   A 475      94.009  72.606  29.203  1.00104.39      A16S
ATOM   9758  C4  G   A 475      94.175  71.257  29.405  1.00104.39      A16S
ATOM   9759  N3  G   A 475      93.824  70.573  30.514  1.00104.39      A16S
ATOM   9760  C2  G   A 475      94.123  69.290  30.418  1.00104.39      A16S
ATOM   9761  N2  G   A 475      93.843  68.465  31.437  1.00104.39      A16S
ATOM   9762  N1  G   A 475      94.721  68.723  29.316  1.00104.39      A16S
ATOM   9763  C6  G   A 475      95.092  69.412  28.163  1.00104.39      A16S
ATOM   9764  O6  G   A 475      95.628  68.808  27.225  1.00104.39      A16S
ATOM   9765  C5  G   A 475      94.775  70.787  28.256  1.00104.39      A16S
ATOM   9766  N7  G   A 475      94.970  71.816  27.346  1.00104.39      A16S
ATOM   9767  C8  G   A 475      94.502  72.873  27.949  1.00104.39      A16S
ATOM   9768  C2* G   A 475      94.375  73.741  31.345  1.00 76.77      A16S
ATOM   9769  O2* G   A 475      93.610  73.944  32.513  1.00 76.77      A16S
ATOM   9770  C3* G   A 475      95.169  74.969  30.920  1.00 76.77      A16S
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ATOM	9771	O3*	G	A	475	95.711	75.657	32.034	1.00 76.77	A16S
ATOM	9772	P	G	A	476	97.113	75.175	32.657	1.00 90.67	A16S
ATOM	9773	O1P	G	A	476	97.412	76.031	33.840	1.00111.52	A16S
ATOM	9774	O2P	G	A	476	98.097	75.094	31.541	1.00111.52	A16S
ATOM	9775	O5*	G	A	476	96.827	73.701	33.188	1.00 90.67	A16S
ATOM	9776	C5*	G	A	476	95.978	73.484	34.317	1.00 90.67	A16S
ATOM	9777	C4*	G	A	476	95.974	72.027	34.694	1.00 90.67	A16S
ATOM	9778	O4*	G	A	476	95.403	71.238	33.612	1.00 90.67	A16S
ATOM	9779	C1*	G	A	476	96.045	69.973	33.549	1.00 90.67	A16S
ATOM	9780	N9	G	A	476	96.694	69.839	32.246	1.00111.52	A16S
ATOM	9781	C4	G	A	476	97.296	68.707	31.743	1.00111.52	A16S
ATOM	9782	N3	G	A	476	97.397	67.517	32.369	1.00111.52	A16S
ATOM	9783	C2	G	A	476	98.031	66.622	31.632	1.00111.52	A16S
ATOM	9784	N2	G	A	476	98.226	65.389	32.109	1.00111.52	A16S
ATOM	9785	N1	G	A	476	98.523	66.873	30.375	1.00111.52	A16S
ATOM	9786	C6	G	A	476	98.432	68.090	29.709	1.00111.52	A16S
ATOM	9787	O6	G	A	476	98.909	68.209	28.572	1.00111.52	A16S
ATOM	9788	C5	G	A	476	97.758	69.063	30.493	1.00111.52	A16S
ATOM	9789	N7	G	A	476	97.462	70.390	30.218	1.00111.52	A16S
ATOM	9790	C8	G	A	476	96.833	70.809	31.283	1.00111.52	A16S
ATOM	9791	C2*	G	A	476	97.052	69.919	34.697	1.00 90.67	A16S
ATOM	9792	O2*	G	A	476	96.441	69.289	35.807	1.00 90.67	A16S
ATOM	9793	C3*	G	A	476	97.336	71.400	34.926	1.00 90.67	A16S
ATOM	9794	O3*	G	A	476	97.861	71.685	36.215	1.00 90.67	A16S
ATOM	9795	P	G	A	477	99.458	71.785	36.417	1.00111.35	A16S
ATOM	9796	O1P	G	A	477	99.712	72.296	37.793	1.00102.23	A16S
ATOM	9797	O2P	G	A	477	100.038	72.505	35.247	1.00102.23	A16S
ATOM	9798	O5*	G	A	477	99.941	70.267	36.381	1.00111.35	A16S
ATOM	9799	C5*	G	A	477	99.474	69.339	37.371	1.00111.35	A16S
ATOM	9800	C4*	G	A	477	99.822	67.924	36.984	1.00111.35	A16S
ATOM	9801	O4*	G	A	477	99.168	67.571	35.737	1.00111.35	A16S
ATOM	9802	C1*	G	A	477	99.974	66.649	35.016	1.00111.35	A16S
ATOM	9803	N9	G	A	477	100.368	67.260	33.750	1.00102.23	A16S
ATOM	9804	C4	G	A	477	101.049	66.641	32.727	1.00102.23	A16S
ATOM	9805	N3	G	A	477	101.429	65.347	32.698	1.00102.23	A16S
ATOM	9806	C2	G	A	477	102.084	65.050	31.591	1.00102.23	A16S
ATOM	9807	N2	G	A	477	102.523	63.801	31.394	1.00102.23	A16S
ATOM	9808	N1	G	A	477	102.355	65.953	30.595	1.00102.23	A16S
ATOM	9809	C6	G	A	477	101.979	67.291	30.606	1.00102.23	A16S
ATOM	9810	O6	G	A	477	102.287	68.027	29.661	1.00102.23	A16S
ATOM	9811	C5	G	A	477	101.262	67.621	31.784	1.00102.23	A16S
ATOM	9812	N7	G	A	477	100.701	68.826	32.189	1.00102.23	A16S
ATOM	9813	C8	G	A	477	100.177	68.563	33.355	1.00102.23	A16S
ATOM	9814	C2*	G	A	477	101.209	66.363	35.869	1.00111.35	A16S
ATOM	9815	O2*	G	A	477	100.994	65.182	36.615	1.00111.35	A16S
ATOM	9816	C3*	G	A	477	101.287	67.620	36.727	1.00111.35	A16S
ATOM	9817	O3*	G	A	477	102.015	67.418	37.928	1.00111.35	A16S
ATOM	9818	P	A	A	478	103.613	67.607	37.925	1.00115.64	A16S
ATOM	9819	O1P	A	A	478	104.055	67.600	39.342	1.00 96.59	A16S
ATOM	9820	O2P	A	A	478	103.980	68.750	37.043	1.00 96.59	A16S
ATOM	9821	O5*	A	A	478	104.137	66.270	37.249	1.00115.64	A16S
ATOM	9822	C5*	A	A	478	103.760	64.998	37.782	1.00115.64	A16S
ATOM	9823	C4*	A	A	478	104.332	63.901	36.935	1.00115.64	A16S
ATOM	9824	O4*	A	A	478	103.699	63.911	35.631	1.00115.64	A16S
ATOM	9825	C1*	A	A	478	104.654	63.592	34.633	1.00115.64	A16S
ATOM	9826	N9	A	A	478	104.785	64.746	33.744	1.00 96.59	A16S
ATOM	9827	C4	A	A	478	105.272	64.728	32.460	1.00 96.59	A16S
ATOM	9828	N3	A	A	478	105.725	63.665	31.775	1.00 96.59	A16S
ATOM	9829	C2	A	A	478	106.100	64.022	30.553	1.00 96.59	A16S
ATOM	9830	N1	A	A	478	106.077	65.227	29.978	1.00 96.59	A16S
ATOM	9831	C6	A	A	478	105.618	66.275	30.694	1.00 96.59	A16S
ATOM	9832	N6	A	A	478	105.591	67.480	30.120	1.00 96.59	A16S
ATOM	9833	C5	A	A	478	105.191	66.031	32.009	1.00 96.59	A16S
ATOM	9834	N7	A	A	478	104.676	66.863	32.995	1.00 96.59	A16S
ATOM	9835	C8	A	A	478	104.454	66.056	34.001	1.00 96.59	A16S
ATOM	9836	C2*	A	A	478	105.967	63.270	35.342	1.00115.64	A16S
ATOM	9837	O2*	A	A	478	106.051	61.876	35.558	1.00115.64	A16S
ATOM	9838	C3*	A	A	478	105.808	64.056	36.634	1.00115.64	A16S
ATOM	9839	O3*	A	A	478	106.619	63.585	37.686	1.00115.64	A16S
ATOM	9840	P	C	A	479	108.130	64.104	37.793	1.00 88.55	A16S
ATOM	9841	O1P	C	A	479	108.732	63.488	39.008	1.00 73.60	A16S
ATOM	9842	O2P	C	A	479	108.126	65.590	37.648	1.00 73.60	A16S
ATOM	9843	O5*	C	A	479	108.808	63.455	36.505	1.00 88.55	A16S
ATOM	9844	C5*	C	A	479	108.757	62.030	36.317	1.00 88.55	A16S
ATOM	9845	C4*	C	A	479	109.488	61.619	35.063	1.00 88.55	A16S
ATOM	9846	O4*	C	A	479	108.699	61.895	33.877	1.00 88.55	A16S
ATOM	9847	C1*	C	A	479	109.566	62.208	32.800	1.00 88.55	A16S

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ATOM   9848  N1  C   A 479     109.304  63.593  32.372  1.00 73.60      A16S
ATOM   9849  C6  C   A 479     108.763  64.504  33.236  1.00 73.60      A16S
ATOM   9850  C2  C   A 479     109.641  63.972  31.070  1.00 73.60      A16S
ATOM   9851  O2  C   A 479     110.111  63.120  30.292  1.00 73.60      A16S
ATOM   9852  N3  C   A 479     109.449  65.255  30.691  1.00 73.60      A16S
ATOM   9853  C4  C   A 479     108.940  66.136  31.549  1.00 73.60      A16S
ATOM   9854  N4  C   A 479     108.790  67.393  31.140  1.00 73.60      A16S
ATOM   9855  C5  C   A 479     108.567  65.771  32.868  1.00 73.60      A16S
ATOM   9856  C2* C   A 479     111.000  62.073  33.313  1.00 88.55      A16S
ATOM   9857  O2* C   A 479     111.485  60.778  33.035  1.00 88.55      A16S
ATOM   9858  C3* C   A 479     110.811  62.303  34.802  1.00 88.55      A16S
ATOM   9859  O3* C   A 479     111.862  61.773  35.578  1.00 88.55      A16S
ATOM   9860  P   U   A 480     113.021  62.759  36.085  1.00 84.40      A16S
ATOM   9861  O1P U   A 480     113.896  62.009  37.021  1.00 76.56      A16S
ATOM   9862  O2P U   A 480     112.391  64.037  36.534  1.00 76.56      A16S
ATOM   9863  O5* U   A 480     113.841  63.055  34.751  1.00 84.40      A16S
ATOM   9864  C5* U   A 480     114.195  61.982  33.862  1.00 84.40      A16S
ATOM   9865  C4* U   A 480     114.635  62.524  32.528  1.00 84.40      A16S
ATOM   9866  O4* U   A 480     113.519  63.080  31.790  1.00 84.40      A16S
ATOM   9867  C1* U   A 480     113.970  64.169  31.003  1.00 84.40      A16S
ATOM   9868  N1  U   A 480     113.251  65.385  31.411  1.00 76.56      A16S
ATOM   9869  C6  U   A 480     112.731  65.531  32.672  1.00 76.56      A16S
ATOM   9870  C2  U   A 480     113.128  66.390  30.477  1.00 76.56      A16S
ATOM   9871  O2  U   A 480     113.560  66.293  29.346  1.00 76.56      A16S
ATOM   9872  N3  U   A 480     112.480  67.514  30.912  1.00 76.56      A16S
ATOM   9873  C4  U   A 480     111.947  67.727  32.155  1.00 76.56      A16S
ATOM   9874  O4  U   A 480     111.418  68.806  32.404  1.00 76.56      A16S
ATOM   9875  C5  U   A 480     112.100  66.637  33.065  1.00 76.56      A16S
ATOM   9876  C2* U   A 480     115.469  64.321  31.239  1.00 84.40      A16S
ATOM   9877  O2* U   A 480     116.181  63.643  30.226  1.00 84.40      A16S
ATOM   9878  C3* U   A 480     115.626  63.660  32.594  1.00 84.40      A16S
ATOM   9879  O3* U   A 480     116.922  63.186  32.804  1.00 84.40      A16S
ATOM   9880  P   G   A 481     117.887  63.988  33.789  1.00 52.28      A16S
ATOM   9881  O1P G   A 481     118.570  63.021  34.691  1.00 78.93      A16S
ATOM   9882  O2P G   A 481     117.147  65.134  34.367  1.00 78.93      A16S
ATOM   9883  O5* G   A 481     118.990  64.588  32.832  1.00 52.28      A16S
ATOM   9884  C5* G   A 481     120.177  65.027  33.420  1.00 52.28      A16S
ATOM   9885  C4* G   A 481     121.118  65.586  32.412  1.00 52.28      A16S
ATOM   9886  O4* G   A 481     120.520  66.671  31.651  1.00 52.28      A16S
ATOM   9887  C1* G   A 481     121.191  67.885  31.951  1.00 52.28      A16S
ATOM   9888  N9  G   A 481     120.205  68.958  31.996  1.00 78.93      A16S
ATOM   9889  C4  G   A 481     119.825  69.778  30.958  1.00 78.93      A16S
ATOM   9890  N3  G   A 481     120.315  69.753  29.699  1.00 78.93      A16S
ATOM   9891  C2  G   A 481     119.715  70.636  28.920  1.00 78.93      A16S
ATOM   9892  N2  G   A 481     120.074  70.742  27.640  1.00 78.93      A16S
ATOM   9893  N1  G   A 481     118.716  71.481  29.341  1.00 78.93      A16S
ATOM   9894  C6  G   A 481     118.200  71.526  30.636  1.00 78.93      A16S
ATOM   9895  O6  G   A 481     117.290  72.325  30.922  1.00 78.93      A16S
ATOM   9896  C5  G   A 481     118.835  70.587  31.478  1.00 78.93      A16S
ATOM   9897  N7  G   A 481     118.619  70.302  32.815  1.00 78.93      A16S
ATOM   9898  C8  G   A 481     119.454  69.337  33.080  1.00 78.93      A16S
ATOM   9899  C2* G   A 481     121.884  67.659  33.293  1.00 52.28      A16S
ATOM   9900  O2* G   A 481     122.994  68.498  33.498  1.00 52.28      A16S
ATOM   9901  C3* G   A 481     122.248  66.186  33.213  1.00 52.28      A16S
ATOM   9902  O3* G   A 481     123.450  65.921  32.557  1.00 52.28      A16S
ATOM   9903  P   A   A 482     124.202  64.555  32.874  1.00 48.97      A16S
ATOM   9904  O1P A   A 482     123.368  63.472  32.303  1.00 44.55      A16S
ATOM   9905  O2P A   A 482     124.511  64.557  34.328  1.00 44.55      A16S
ATOM   9906  O5* A   A 482     125.558  64.665  32.052  1.00 48.97      A16S
ATOM   9907  C5* A   A 482     126.266  63.486  31.634  1.00 48.97      A16S
ATOM   9908  C4* A   A 482     127.076  63.800  30.416  1.00 48.97      A16S
ATOM   9909  O4* A   A 482     126.161  64.122  29.345  1.00 48.97      A16S
ATOM   9910  C1* A   A 482     126.636  65.243  28.634  1.00 48.97      A16S
ATOM   9911  N9  A   A 482     125.651  66.311  28.762  1.00 44.55      A16S
ATOM   9912  C4  A   A 482     125.678  67.525  28.110  1.00 44.55      A16S
ATOM   9913  N3  A   A 482     126.593  67.960  27.225  1.00 44.55      A16S
ATOM   9914  C2  A   A 482     126.300  69.185  26.811  1.00 44.55      A16S
ATOM   9915  N1  A   A 482     125.284  69.974  27.155  1.00 44.55      A16S
ATOM   9916  C6  A   A 482     124.386  69.519  28.052  1.00 44.55      A16S
ATOM   9917  N6  A   A 482     123.383  70.323  28.413  1.00 44.55      A16S
ATOM   9918  C5  A   A 482     124.572  68.217  28.560  1.00 44.55      A16S
ATOM   9919  N7  A   A 482     123.847  67.446  29.464  1.00 44.55      A16S
ATOM   9920  C8  A   A 482     124.527  66.332  29.547  1.00 44.55      A16S
ATOM   9921  C2* A   A 482     127.999  65.623  29.206  1.00 48.97      A16S
ATOM   9922  O2* A   A 482     128.992  65.006  28.424  1.00 48.97      A16S
ATOM   9923  C3* A   A 482     127.919  65.045  30.608  1.00 48.97      A16S
ATOM   9924  O3* A   A 482     129.186  64.704  31.158  1.00 48.97      A16S
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ATOM   9925  P    C   A 483     129.733  65.501  32.443  1.00 52.64      A16S
ATOM   9926  O1P  C   A 483     131.048  64.938  32.847  1.00 59.41      A16S
ATOM   9927  O2P  C   A 483     128.610  65.534  33.415  1.00 59.41      A16S
ATOM   9928  O5*  C   A 483     129.986  66.977  31.908  1.00 52.64      A16S
ATOM   9929  C5*  C   A 483     130.763  67.198  30.715  1.00 52.64      A16S
ATOM   9930  C4*  C   A 483     130.503  68.580  30.152  1.00 52.64      A16S
ATOM   9931  O4*  C   A 483     129.161  68.694  29.622  1.00 52.64      A16S
ATOM   9932  C1*  C   A 483     128.727  70.034  29.744  1.00 52.64      A16S
ATOM   9933  N1   C   A 483     127.435  70.058  30.435  1.00 59.41      A16S
ATOM   9934  C6   C   A 483     126.989  68.978  31.145  1.00 59.41      A16S
ATOM   9935  C2   C   A 483     126.668  71.214  30.362  1.00 59.41      A16S
ATOM   9936  O2   C   A 483     127.093  72.184  29.706  1.00 59.41      A16S
ATOM   9937  N3   C   A 483     125.489  71.259  31.010  1.00 59.41      A16S
ATOM   9938  C4   C   A 483     125.073  70.212  31.716  1.00 59.41      A16S
ATOM   9939  N4   C   A 483     123.924  70.324  32.360  1.00 59.41      A16S
ATOM   9940  C5   C   A 483     125.824  69.013  31.796  1.00 59.41      A16S
ATOM   9941  C2*  C   A 483     129.815  70.832  30.467  1.00 52.64      A16S
ATOM   9942  O2*  C   A 483     130.565  71.563  29.526  1.00 52.64      A16S
ATOM   9943  C3*  C   A 483     130.635  69.733  31.126  1.00 52.64      A16S
ATOM   9944  O3*  C   A 483     131.993  70.091  31.214  1.00 52.64      A16S
ATOM   9945  P    G   A 484     132.523  70.904  32.484  1.00 68.99      A16S
ATOM   9946  O1P  G   A 484     132.169  72.326  32.229  1.00 64.62      A16S
ATOM   9947  O2P  G   A 484     133.943  70.528  32.736  1.00 64.62      A16S
ATOM   9948  O5*  G   A 484     131.650  70.365  33.698  1.00 68.99      A16S
ATOM   9949  C5*  G   A 484     132.172  70.394  35.034  1.00 68.99      A16S
ATOM   9950  C4*  G   A 484     131.159  69.843  35.989  1.00 68.99      A16S
ATOM   9951  O4*  G   A 484     130.040  70.755  36.066  1.00 68.99      A16S
ATOM   9952  C1*  G   A 484     128.823  70.085  35.782  1.00 68.99      A16S
ATOM   9953  N9   G   A 484     128.024  70.990  34.958  1.00 64.62      A16S
ATOM   9954  C4   G   A 484     126.710  71.374  35.153  1.00 64.62      A16S
ATOM   9955  N3   G   A 484     125.894  70.965  36.149  1.00 64.62      A16S
ATOM   9956  C2   G   A 484     124.683  71.501  36.045  1.00 64.62      A16S
ATOM   9957  N2   G   A 484     123.727  71.187  36.928  1.00 64.62      A16S
ATOM   9958  N1   G   A 484     124.315  72.378  35.061  1.00 64.62      A16S
ATOM   9959  C6   G   A 484     125.141  72.814  34.035  1.00 64.62      A16S
ATOM   9960  O6   G   A 484     124.711  73.603  33.200  1.00 64.62      A16S
ATOM   9961  C5   G   A 484     126.429  72.241  34.121  1.00 64.62      A16S
ATOM   9962  N7   G   A 484     127.533  72.403  33.298  1.00 64.62      A16S
ATOM   9963  C8   G   A 484     128.450  71.644  33.829  1.00 64.62      A16S
ATOM   9964  C2*  G   A 484     129.156  68.755  35.096  1.00 68.99      A16S
ATOM   9965  O2*  G   A 484     128.234  67.778  35.540  1.00 68.99      A16S
ATOM   9966  C3*  G   A 484     130.584  68.507  35.575  1.00 68.99      A16S
ATOM   9967  O3*  G   A 484     131.176  67.291  36.033  1.00 68.99      A16S
ATOM   9968  P    G   A 485     130.746  66.661  37.444  1.00 68.77      A16S
ATOM   9969  O1P  G   A 485     131.471  65.378  37.577  1.00 96.85      A16S
ATOM   9970  O2P  G   A 485     129.257  66.682  37.574  1.00 96.85      A16S
ATOM   9971  O5*  G   A 485     131.393  67.643  38.512  1.00 68.77      A16S
ATOM   9972  C5*  G   A 485     130.751  67.852  39.772  1.00 68.77      A16S
ATOM   9973  C4*  G   A 485     130.404  69.304  39.925  1.00 68.77      A16S
ATOM   9974  O4*  G   A 485     129.116  69.449  40.574  1.00 68.77      A16S
ATOM   9975  C1*  G   A 485     129.255  70.336  41.653  1.00 68.77      A16S
ATOM   9976  N9   G   A 485     128.197  70.068  42.613  1.00 96.85      A16S
ATOM   9977  C4   G   A 485     126.945  70.583  42.516  1.00 96.85      A16S
ATOM   9978  N3   G   A 485     126.523  71.418  41.552  1.00 96.85      A16S
ATOM   9979  C2   G   A 485     125.265  71.751  41.703  1.00 96.85      A16S
ATOM   9980  N2   G   A 485     124.707  72.590  40.829  1.00 96.85      A16S
ATOM   9981  N1   G   A 485     124.466  71.290  42.723  1.00 96.85      A16S
ATOM   9982  C6   G   A 485     124.880  70.421  43.733  1.00 96.85      A16S
ATOM   9983  O6   G   A 485     124.077  70.060  44.610  1.00 96.85      A16S
ATOM   9984  C5   G   A 485     126.247  70.065  43.580  1.00 96.85      A16S
ATOM   9985  N7   G   A 485     127.063  69.245  44.349  1.00 96.85      A16S
ATOM   9986  C8   G   A 485     128.215  69.279  43.737  1.00 96.85      A16S
ATOM   9987  C2*  G   A 485     130.712  70.237  42.082  1.00 68.77      A16S
ATOM   9988  O2*  G   A 485     131.060  71.365  42.841  1.00 68.77      A16S
ATOM   9989  C3*  G   A 485     131.391  70.148  40.716  1.00 68.77      A16S
ATOM   9990  O3*  G   A 485     131.406  71.423  40.075  1.00 68.77      A16S
ATOM   9991  P    U   A 486     132.431  72.558  40.557  1.00 80.39      A16S
ATOM   9992  O1P  U   A 486     133.714  71.885  40.926  1.00 72.70      A16S
ATOM   9993  O2P  U   A 486     131.730  73.411  41.554  1.00 72.70      A16S
ATOM   9994  O5*  U   A 486     132.647  73.469  39.266  1.00 80.39      A16S
ATOM   9995  C5*  U   A 486     133.502  73.062  38.187  1.00 80.39      A16S
ATOM   9996  C4*  U   A 486     132.973  73.612  36.888  1.00 80.39      A16S
ATOM   9997  O4*  U   A 486     131.769  72.901  36.520  1.00 80.39      A16S
ATOM   9998  C1*  U   A 486     130.840  73.795  35.937  1.00 80.39      A16S
ATOM   9999  N1   U   A 486     129.592  73.741  36.716  1.00 72.70      A16S
ATOM  10000  C6   U   A 486     129.531  73.082  37.928  1.00 72.70      A16S
ATOM  10001  C2   U   A 486     128.466  74.356  36.187  1.00 72.70      A16S
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ATOM  10002  O2  U   A 486     128.478  74.985  35.148  1.00 72.70      A16S
ATOM  10003  N3  U   A 486     127.325  74.212  36.931  1.00 72.70      A16S
ATOM  10004  C4  U   A 486     127.196  73.550  38.133  1.00 72.70      A16S
ATOM  10005  O4  U   A 486     126.097  73.513  38.683  1.00 72.70      A16S
ATOM  10006  C5  U   A 486     128.405  72.968  38.631  1.00 72.70      A16S
ATOM  10007  C2* U   A 486     131.496  75.172  35.858  1.00 80.39      A16S
ATOM  10008  O2* U   A 486     132.023  75.333  34.558  1.00 80.39      A16S
ATOM  10009  C3* U   A 486     132.559  75.070  36.947  1.00 80.39      A16S
ATOM  10010  O3* U   A 486     133.675  75.922  36.742  1.00 80.39      A16S
ATOM  10011  P   A   A 487     133.778  77.304  37.557  1.00 74.41      A16S
ATOM  10012  O1P A   A 487     135.097  77.901  37.227  1.00 67.53      A16S
ATOM  10013  O2P A   A 487     133.427  77.040  38.984  1.00 67.53      A16S
ATOM  10014  O5* A   A 487     132.635  78.211  36.907  1.00 74.41      A16S
ATOM  10015  C5* A   A 487     132.669  78.538  35.505  1.00 74.41      A16S
ATOM  10016  C4* A   A 487     131.387  79.212  35.074  1.00 74.41      A16S
ATOM  10017  O4* A   A 487     130.267  78.310  35.231  1.00 74.41      A16S
ATOM  10018  C1* A   A 487     129.096  79.056  35.514  1.00 74.41      A16S
ATOM  10019  N9  A   A 487     128.497  78.547  36.747  1.00 67.53      A16S
ATOM  10020  C4  A   A 487     127.245  78.845  37.225  1.00 67.53      A16S
ATOM  10021  N3  A   A 487     126.348  79.690  36.694  1.00 67.53      A16S
ATOM  10022  C2  A   A 487     125.233  79.711  37.422  1.00 67.53      A16S
ATOM  10023  N1  A   A 487     124.930  79.026  38.527  1.00 67.53      A16S
ATOM  10024  C6  A   A 487     125.852  78.177  39.029  1.00 67.53      A16S
ATOM  10025  N6  A   A 487     125.544  77.469  40.116  1.00 67.53      A16S
ATOM  10026  C5  A   A 487     127.085  78.082  38.363  1.00 67.53      A16S
ATOM  10027  N7  A   A 487     128.230  77.347  38.623  1.00 67.53      A16S
ATOM  10028  C8  A   A 487     129.037  77.661  37.641  1.00 67.53      A16S
ATOM  10029  C2* A   A 487     129.477  80.534  35.574  1.00 74.41      A16S
ATOM  10030  O2* A   A 487     129.165  81.136  34.336  1.00 74.41      A16S
ATOM  10031  C3* A   A 487     130.977  80.462  35.831  1.00 74.41      A16S
ATOM  10032  O3* A   A 487     131.628  81.606  35.315  1.00 74.41      A16S
ATOM  10033  P   C   A 488     132.093  82.775  36.313  1.00 66.97      A16S
ATOM  10034  O1P C   A 488     132.405  83.935  35.425  1.00 57.02      A16S
ATOM  10035  O2P C   A 488     133.154  82.232  37.219  1.00 57.02      A16S
ATOM  10036  O5* C   A 488     130.779  83.127  37.153  1.00 66.97      A16S
ATOM  10037  C5* C   A 488     129.817  84.072  36.643  1.00 66.97      A16S
ATOM  10038  C4* C   A 488     128.595  84.146  37.537  1.00 66.97      A16S
ATOM  10039  O4* C   A 488     127.960  82.844  37.578  1.00 66.97      A16S
ATOM  10040  C1* C   A 488     127.413  82.617  38.868  1.00 66.97      A16S
ATOM  10041  N1  C   A 488     128.172  81.523  39.500  1.00 57.02      A16S
ATOM  10042  C6  C   A 488     129.523  81.407  39.313  1.00 57.02      A16S
ATOM  10043  C2  C   A 488     127.495  80.616  40.300  1.00 57.02      A16S
ATOM  10044  O2  C   A 488     126.270  80.746  40.448  1.00 57.02      A16S
ATOM  10045  N3  C   A 488     128.187  79.619  40.894  1.00 57.02      A16S
ATOM  10046  C4  C   A 488     129.505  79.516  40.703  1.00 57.02      A16S
ATOM  10047  N4  C   A 488     130.150  78.517  41.300  1.00 57.02      A16S
ATOM  10048  C5  C   A 488     130.219  80.431  39.892  1.00 57.02      A16S
ATOM  10049  C2* C   A 488     127.574  83.907  39.666  1.00 66.97      A16S
ATOM  10050  O2* C   A 488     126.408  84.685  39.508  1.00 66.97      A16S
ATOM  10051  C3* C   A 488     128.800  84.519  39.001  1.00 66.97      A16S
ATOM  10052  O3* C   A 488     128.882  85.922  39.231  1.00 66.97      A16S
ATOM  10053  P   C   A 489     129.587  86.463  40.571  1.00 61.67      A16S
ATOM  10054  O1P C   A 489     129.644  87.944  40.512  1.00 68.43      A16S
ATOM  10055  O2P C   A 489     130.836  85.701  40.790  1.00 68.43      A16S
ATOM  10056  O5* C   A 489     128.547  86.053  41.703  1.00 61.67      A16S
ATOM  10057  C5* C   A 489     127.265  86.706  41.801  1.00 61.67      A16S
ATOM  10058  C4* C   A 489     126.554  86.275  43.064  1.00 61.67      A16S
ATOM  10059  O4* C   A 489     126.235  84.862  42.965  1.00 61.67      A16S
ATOM  10060  C1* C   A 489     126.402  84.238  44.232  1.00 61.67      A16S
ATOM  10061  N1  C   A 489     127.490  83.243  44.129  1.00 68.43      A16S
ATOM  10062  C6  C   A 489     128.203  83.085  42.972  1.00 68.43      A16S
ATOM  10063  C2  C   A 489     127.794  82.474  45.248  1.00 68.43      A16S
ATOM  10064  O2  C   A 489     127.123  82.627  46.277  1.00 68.43      A16S
ATOM  10065  N3  C   A 489     128.814  81.586  45.185  1.00 68.43      A16S
ATOM  10066  C4  C   A 489     129.516  81.453  44.060  1.00 68.43      A16S
ATOM  10067  N4  C   A 489     130.528  80.583  44.054  1.00 68.43      A16S
ATOM  10068  C5  C   A 489     129.215  82.211  42.895  1.00 68.43      A16S
ATOM  10069  C2* C   A 489     126.733  85.336  45.244  1.00 61.67      A16S
ATOM  10070  O2* C   A 489     125.550  85.784  45.879  1.00 61.67      A16S
ATOM  10071  C3* C   A 489     127.366  86.390  44.347  1.00 61.67      A16S
ATOM  10072  O3* C   A 489     127.351  87.692  44.916  1.00 61.67      A16S
ATOM  10073  P   G   A 490     128.659  88.229  45.681  1.00 73.15      A16S
ATOM  10074  O1P G   A 490     128.460  89.683  45.870  1.00 82.54      A16S
ATOM  10075  O2P G   A 490     129.888  87.740  45.007  1.00 82.54      A16S
ATOM  10076  O5* G   A 490     128.593  87.500  47.093  1.00 73.15      A16S
ATOM  10077  C5* G   A 490     127.426  87.618  47.923  1.00 73.15      A16S
ATOM  10078  C4* G   A 490     127.517  86.679  49.101  1.00 73.15      A16S
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ATOM  10079  O4*  G    A 490     127.356  85.302  48.667  1.00 73.15      A16S
ATOM  10080  C1*  G    A 490     128.149  84.453  49.480  1.00 73.15      A16S
ATOM  10081  N9   G    A 490     129.154  83.810  48.636  1.00 82.54      A16S
ATOM  10082  C4   G    A 490     129.976  82.770  48.998  1.00 82.54      A16S
ATOM  10083  N3   G    A 490     129.957  82.119  50.177  1.00 82.54      A16S
ATOM  10084  C2   G    A 490     130.897  81.195  50.248  1.00 82.54      A16S
ATOM  10085  N2   G    A 490     131.011  80.447  51.350  1.00 82.54      A16S
ATOM  10086  N1   G    A 490     131.791  80.933  49.246  1.00 82.54      A16S
ATOM  10087  C6   G    A 490     131.834  81.591  48.023  1.00 82.54      A16S
ATOM  10088  O6   G    A 490     132.697  81.285  47.190  1.00 82.54      A16S
ATOM  10089  C5   G    A 490     130.819  82.581  47.928  1.00 82.54      A16S
ATOM  10090  N7   G    A 490     130.506  83.452  46.895  1.00 82.54      A16S
ATOM  10091  C8   G    A 490     129.507  84.153  47.354  1.00 82.54      A16S
ATOM  10092  C2*  G    A 490     128.820  85.332  50.544  1.00 73.15      A16S
ATOM  10093  O2*  G    A 490     128.054  85.342  51.734  1.00 73.15      A16S
ATOM  10094  C3*  G    A 490     128.831  86.692  49.862  1.00 73.15      A16S
ATOM  10095  O3*  G    A 490     128.905  87.761  50.792  1.00 73.15      A16S
ATOM  10096  P    G    A 491     130.341  88.353  51.209  1.00 69.97      A16S
ATOM  10097  O1P  G    A 491     130.092  89.490  52.137  1.00101.81      A16S
ATOM  10098  O2P  G    A 491     131.145  88.581  49.980  1.00101.81      A16S
ATOM  10099  O5*  G    A 491     131.009  87.165  52.035  1.00 69.97      A16S
ATOM  10100  C5*  G    A 491     130.410  86.697  53.258  1.00 69.97      A16S
ATOM  10101  C4*  G    A 491     131.201  85.546  53.827  1.00 69.97      A16S
ATOM  10102  O4*  G    A 491     131.049  84.376  52.984  1.00 69.97      A16S
ATOM  10103  C1*  G    A 491     132.262  83.634  52.981  1.00 69.97      A16S
ATOM  10104  N9   G    A 491     132.779  83.564  51.616  1.00101.81      A16S
ATOM  10105  C4   G    A 491     133.809  82.765  51.189  1.00101.81      A16S
ATOM  10106  N3   G    A 491     134.492  81.887  51.947  1.00101.81      A16S
ATOM  10107  C2   G    A 491     135.444  81.285  51.265  1.00101.81      A16S
ATOM  10108  N2   G    A 491     136.220  80.378  51.869  1.00101.81      A16S
ATOM  10109  N1   G    A 491     135.704  81.525  49.941  1.00101.81      A16S
ATOM  10110  C6   G    A 491     135.009  82.423  49.140  1.00101.81      A16S
ATOM  10111  O6   G    A 491     135.322  82.563  47.950  1.00101.81      A16S
ATOM  10112  C5   G    A 491     133.987  83.077  49.861  1.00101.81      A16S
ATOM  10113  N7   G    A 491     133.073  84.036  49.453  1.00101.81      A16S
ATOM  10114  C8   G    A 491     132.373  84.290  50.523  1.00101.81      A16S
ATOM  10115  C2*  G    A 491     133.255  84.351  53.897  1.00 69.97      A16S
ATOM  10116  O2*  G    A 491     133.248  83.747  55.169  1.00 69.97      A16S
ATOM  10117  C3*  G    A 491     132.701  85.767  53.903  1.00 69.97      A16S
ATOM  10118  O3*  G    A 491     133.077  86.482  55.061  1.00 69.97      A16S
ATOM  10119  P    G    A 492     134.321  87.492  54.993  1.00 66.95      A16S
ATOM  10120  O1P  G    A 492     134.290  88.340  56.215  1.00 92.86      A16S
ATOM  10121  O2P  G    A 492     134.296  88.137  53.650  1.00 92.86      A16S
ATOM  10122  O5*  G    A 492     135.592  86.539  55.087  1.00 66.95      A16S
ATOM  10123  C5*  G    A 492     135.738  85.639  56.191  1.00 66.95      A16S
ATOM  10124  C4*  G    A 492     136.804  84.610  55.907  1.00 66.95      A16S
ATOM  10125  O4*  G    A 492     136.403  83.752  54.807  1.00 66.95      A16S
ATOM  10126  C1*  G    A 492     137.555  83.335  54.086  1.00 66.95      A16S
ATOM  10127  N9   G    A 492     137.439  83.774  52.695  1.00 92.86      A16S
ATOM  10128  C4   G    A 492     138.269  83.416  51.660  1.00 92.86      A16S
ATOM  10129  N3   G    A 492     139.322  82.581  51.743  1.00 92.86      A16S
ATOM  10130  C2   G    A 492     139.927  82.435  50.582  1.00 92.86      A16S
ATOM  10131  N2   G    A 492     140.981  81.620  50.478  1.00 92.86      A16S
ATOM  10132  N1   G    A 492     139.540  83.067  49.435  1.00 92.86      A16S
ATOM  10133  C6   G    A 492     138.461  83.933  49.326  1.00 92.86      A16S
ATOM  10134  O6   G    A 492     138.199  84.455  48.238  1.00 92.86      A16S
ATOM  10135  C5   G    A 492     137.795  84.090  50.560  1.00 92.86      A16S
ATOM  10136  N7   G    A 492     136.683  84.849  50.888  1.00 92.86      A16S
ATOM  10137  C8   G    A 492     136.506  84.629  52.161  1.00 92.86      A16S
ATOM  10138  C2*  G    A 492     138.775  83.951  54.773  1.00 66.95      A16S
ATOM  10139  O2*  G    A 492     139.334  83.011  55.669  1.00 66.95      A16S
ATOM  10140  C3*  G    A 492     138.158  85.144  55.487  1.00 66.95      A16S
ATOM  10141  O3*  G    A 492     138.934  85.543  56.592  1.00 66.95      A16S
ATOM  10142  P    G    A 494     139.971  86.750  56.420  1.00 69.01      A16S
ATOM  10143  O1P  G    A 494     140.706  86.920  57.699  1.00 83.82      A16S
ATOM  10144  O2P  G    A 494     139.226  87.898  55.840  1.00 83.82      A16S
ATOM  10145  O5*  G    A 494     141.011  86.217  55.341  1.00 69.01      A16S
ATOM  10146  C5*  G    A 494     141.925  85.143  55.652  1.00 69.01      A16S
ATOM  10147  C4*  G    A 494     142.730  84.771  54.426  1.00 69.01      A16S
ATOM  10148  O4*  G    A 494     141.838  84.236  53.414  1.00 69.01      A16S
ATOM  10149  C1*  G    A 494     142.221  84.709  52.136  1.00 69.01      A16S
ATOM  10150  N9   G    A 494     141.149  85.574  51.647  1.00 83.82      A16S
ATOM  10151  C4   G    A 494     140.876  85.894  50.340  1.00 83.82      A16S
ATOM  10152  N3   G    A 494     141.536  85.440  49.259  1.00 83.82      A16S
ATOM  10153  C2   G    A 494     141.048  85.939  48.144  1.00 83.82      A16S
ATOM  10154  N2   G    A 494     141.578  85.589  46.971  1.00 83.82      A16S
ATOM  10155  N1   G    A 494     140.001  86.816  48.093  1.00 83.82      A16S
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ATOM  10156  C6  G   A 494     139.305  87.297  49.190  1.00 83.82      A16S
ATOM  10157  O6  G   A 494     138.372  88.093  49.029  1.00 83.82      A16S
ATOM  10158  C5  G   A 494     139.811  86.767  50.392  1.00 83.82      A16S
ATOM  10159  N7  G   A 494     139.408  86.976  51.702  1.00 83.82      A16S
ATOM  10160  C8  G   A 494     140.225  86.248  52.410  1.00 83.82      A16S
ATOM  10161  C2* G   A 494     143.544  85.465  52.305  1.00 69.01      A16S
ATOM  10162  O2* G   A 494     144.644  84.593  52.111  1.00 69.01      A16S
ATOM  10163  C3* G   A 494     143.441  85.933  53.748  1.00 69.01      A16S
ATOM  10164  O3* G   A 494     144.713  86.180  54.324  1.00 69.01      A16S
ATOM  10165  P   U   A 495     145.433  87.600  54.091  1.00 75.75      A16S
ATOM  10166  O1P U   A 495     145.855  88.131  55.415  1.00105.12      A16S
ATOM  10167  O2P U   A 495     144.580  88.439  53.208  1.00105.12      A16S
ATOM  10168  O5* U   A 495     146.746  87.192  53.292  1.00 75.75      A16S
ATOM  10169  C5* U   A 495     147.570  86.109  53.757  1.00 75.75      A16S
ATOM  10170  C4* U   A 495     148.410  85.562  52.631  1.00 75.75      A16S
ATOM  10171  O4* U   A 495     147.575  84.865  51.677  1.00 75.75      A16S
ATOM  10172  C1* U   A 495     148.112  85.028  50.379  1.00 75.75      A16S
ATOM  10173  N1  U   A 495     147.089  85.628  49.513  1.00105.12      A16S
ATOM  10174  C6  U   A 495     145.972  86.240  50.032  1.00105.12      A16S
ATOM  10175  C2  U   A 495     147.278  85.541  48.150  1.00105.12      A16S
ATOM  10176  O2  U   A 495     148.270  85.044  47.647  1.00105.12      A16S
ATOM  10177  N3  U   A 495     146.262  86.061  47.394  1.00105.12      A16S
ATOM  10178  C4  U   A 495     145.109  86.650  47.848  1.00105.12      A16S
ATOM  10179  O4  U   A 495     144.220  86.902  47.047  1.00105.12      A16S
ATOM  10180  C5  U   A 495     145.004  86.743  49.266  1.00105.12      A16S
ATOM  10181  C2* U   A 495     149.384  85.867  50.490  1.00 75.75      A16S
ATOM  10182  O2* U   A 495     150.494  84.994  50.532  1.00 75.75      A16S
ATOM  10183  C3* U   A 495     149.166  86.590  51.810  1.00 75.75      A16S
ATOM  10184  O3* U   A 495     150.391  86.930  52.435  1.00 75.75      A16S
ATOM  10185  P   A   A 496     150.870  88.462  52.464  1.00 80.85      A16S
ATOM  10186  O1P A   A 496     151.970  88.528  53.461  1.00 65.82      A16S
ATOM  10187  O2P A   A 496     149.677  89.336  52.640  1.00 65.82      A16S
ATOM  10188  O5* A   A 496     151.480  88.697  51.005  1.00 80.85      A16S
ATOM  10189  C5* A   A 496     152.503  89.693  50.782  1.00 80.85      A16S
ATOM  10190  C4* A   A 496     152.918  89.722  49.325  1.00 80.85      A16S
ATOM  10191  O4* A   A 496     151.749  89.942  48.497  1.00 80.85      A16S
ATOM  10192  C1* A   A 496     151.985  91.045  47.659  1.00 80.85      A16S
ATOM  10193  N9  A   A 496     150.706  91.653  47.305  1.00 65.82      A16S
ATOM  10194  C4  A   A 496     150.218  91.714  46.025  1.00 65.82      A16S
ATOM  10195  N3  A   A 496     150.801  91.234  44.911  1.00 65.82      A16S
ATOM  10196  C2  A   A 496     150.043  91.474  43.851  1.00 65.82      A16S
ATOM  10197  N1  A   A 496     148.860  92.098  43.779  1.00 65.82      A16S
ATOM  10198  C6  A   A 496     148.308  92.575  44.915  1.00 65.82      A16S
ATOM  10199  N6  A   A 496     147.141  93.210  44.834  1.00 65.82      A16S
ATOM  10200  C5  A   A 496     149.009  92.373  46.112  1.00 65.82      A16S
ATOM  10201  N7  A   A 496     148.734  92.717  47.425  1.00 65.82      A16S
ATOM  10202  C8  A   A 496     149.768  92.264  48.093  1.00 65.82      A16S
ATOM  10203  C2* A   A 496     153.010  91.913  48.390  1.00 80.85      A16S
ATOM  10204  O2* A   A 496     153.716  92.778  47.513  1.00 80.85      A16S
ATOM  10205  C3* A   A 496     153.914  90.837  48.979  1.00 80.85      A16S
ATOM  10206  O3* A   A 496     154.829  90.501  47.917  1.00 80.85      A16S
ATOM  10207  P   A   A 497     155.515  89.046  47.835  1.00 94.39      A16S
ATOM  10208  O1P A   A 497     155.228  88.278  49.065  1.00 69.53      A16S
ATOM  10209  O2P A   A 497     156.924  89.242  47.417  1.00 69.53      A16S
ATOM  10210  O5* A   A 497     154.721  88.349  46.640  1.00 94.39      A16S
ATOM  10211  C5* A   A 497     154.990  86.986  46.255  1.00 94.39      A16S
ATOM  10212  C4* A   A 497     154.057  86.558  45.140  1.00 94.39      A16S
ATOM  10213  O4* A   A 497     152.697  86.506  45.633  1.00 94.39      A16S
ATOM  10214  C1* A   A 497     151.800  86.815  44.585  1.00 94.39      A16S
ATOM  10215  N9  A   A 497     150.720  87.648  45.116  1.00 69.53      A16S
ATOM  10216  C4  A   A 497     149.620  88.143  44.451  1.00 69.53      A16S
ATOM  10217  N3  A   A 497     149.327  88.030  43.147  1.00 69.53      A16S
ATOM  10218  C2  A   A 497     148.162  88.626  42.872  1.00 69.53      A16S
ATOM  10219  N1  A   A 497     147.321  89.264  43.689  1.00 69.53      A16S
ATOM  10220  C6  A   A 497     147.646  89.357  44.991  1.00 69.53      A16S
ATOM  10221  N6  A   A 497     146.813  89.989  45.807  1.00 69.53      A16S
ATOM  10222  C5  A   A 497     148.852  88.779  45.411  1.00 69.53      A16S
ATOM  10223  N7  A   A 497     149.467  88.714  46.650  1.00 69.53      A16S
ATOM  10224  C8  A   A 497     150.572  88.047  46.419  1.00 69.53      A16S
ATOM  10225  C2* A   A 497     152.589  87.298  43.364  1.00 94.39      A16S
ATOM  10226  O2* A   A 497     152.469  86.350  42.326  1.00 94.39      A16S
ATOM  10227  C3* A   A 497     154.001  87.486  43.936  1.00 94.39      A16S
ATOM  10228  O3* A   A 497     155.114  87.280  43.032  1.00 94.39      A16S
ATOM  10229  P   U   A 498     155.457  85.804  42.429  1.00 71.00      A16S
ATOM  10230  O1P U   A 498     154.254  84.931  42.381  1.00 77.98      A16S
ATOM  10231  O2P U   A 498     156.676  85.315  43.124  1.00 77.98      A16S
ATOM  10232  O5* U   A 498     155.921  86.118  40.935  1.00 71.00      A16S
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ATOM  10233  C5* U   A 498     155.007  86.022  39.831  1.00 71.00      A16S
ATOM  10234  C4* U   A 498     155.752  85.623  38.587  1.00 71.00      A16S
ATOM  10235  O4* U   A 498     154.840  84.997  37.659  1.00 71.00      A16S
ATOM  10236  C1* U   A 498     155.279  85.234  36.336  1.00 71.00      A16S
ATOM  10237  N1  U   A 498     154.172  85.806  35.548  1.00 77.98      A16S
ATOM  10238  C6  U   A 498     152.932  86.036  36.097  1.00 77.98      A16S
ATOM  10239  C2  U   A 498     154.420  86.109  34.223  1.00 77.98      A16S
ATOM  10240  O2  U   A 498     155.501  85.918  33.691  1.00 77.98      A16S
ATOM  10241  N3  U   A 498     153.358  86.643  33.541  1.00 77.98      A16S
ATOM  10242  C4  U   A 498     152.105  86.898  34.030  1.00 77.98      A16S
ATOM  10243  O4  U   A 498     151.263  87.399  33.290  1.00 77.98      A16S
ATOM  10244  C5  U   A 498     151.919  86.556  35.401  1.00 77.98      A16S
ATOM  10245  C2* U   A 498     156.539  86.106  36.403  1.00 71.00      A16S
ATOM  10246  O2* U   A 498     157.676  85.280  36.271  1.00 71.00      A16S
ATOM  10247  C3* U   A 498     156.437  86.723  37.792  1.00 71.00      A16S
ATOM  10248  O3* U   A 498     157.734  87.009  38.292  1.00 71.00      A16S
ATOM  10249  P   A   A 499     158.493  88.355  37.834  1.00 66.65      A16S
ATOM  10250  O1P A   A 499     159.871  88.276  38.384  1.00 52.37      A16S
ATOM  10251  O2P A   A 499     157.635  89.511  38.180  1.00 52.37      A16S
ATOM  10252  O5* A   A 499     158.593  88.264  36.242  1.00 66.65      A16S
ATOM  10253  C5* A   A 499     159.569  87.405  35.606  1.00 66.65      A16S
ATOM  10254  C4* A   A 499     159.839  87.855  34.185  1.00 66.65      A16S
ATOM  10255  O4* A   A 499     158.613  87.780  33.415  1.00 66.65      A16S
ATOM  10256  C1* A   A 499     158.395  89.009  32.769  1.00 66.65      A16S
ATOM  10257  N9  A   A 499     156.960  89.185  32.543  1.00 52.37      A16S
ATOM  10258  C4  A   A 499     156.373  89.353  31.310  1.00 52.37      A16S
ATOM  10259  N3  A   A 499     156.986  89.417  30.116  1.00 52.37      A16S
ATOM  10260  C2  A   A 499     156.096  89.576  29.142  1.00 52.37      A16S
ATOM  10261  N1  A   A 499     154.766  89.669  29.219  1.00 52.37      A16S
ATOM  10262  C6  A   A 499     154.183  89.599  30.432  1.00 52.37      A16S
ATOM  10263  N6  A   A 499     152.855  89.682  30.506  1.00 52.37      A16S
ATOM  10264  C5  A   A 499     155.014  89.437  31.546  1.00 52.37      A16S
ATOM  10265  N7  A   A 499     154.746  89.340  32.902  1.00 52.37      A16S
ATOM  10266  C8  A   A 499     155.932  89.196  33.449  1.00 52.37      A16S
ATOM  10267  C2* A   A 499     159.113  90.048  33.625  1.00 66.65      A16S
ATOM  10268  O2* A   A 499     159.420  91.186  32.853  1.00 66.65      A16S
ATOM  10269  C3* A   A 499     160.367  89.277  34.018  1.00 66.65      A16S
ATOM  10270  O3* A   A 499     161.229  89.350  32.880  1.00 66.65      A16S
ATOM  10271  P   G   A 500     162.702  88.700  32.914  1.00 73.99      A16S
ATOM  10272  O1P G   A 500     162.779  87.619  33.942  1.00 53.95      A16S
ATOM  10273  O2P G   A 500     163.711  89.792  32.917  1.00 53.95      A16S
ATOM  10274  O5* G   A 500     162.770  87.977  31.499  1.00 73.99      A16S
ATOM  10275  C5* G   A 500     161.962  86.815  31.240  1.00 73.99      A16S
ATOM  10276  C4* G   A 500     161.231  86.949  29.923  1.00 73.99      A16S
ATOM  10277  O4* G   A 500     160.139  87.899  30.032  1.00 73.99      A16S
ATOM  10278  C1* G   A 500     159.925  88.516  28.771  1.00 73.99      A16S
ATOM  10279  N9  G   A 500     160.107  89.959  28.906  1.00 53.95      A16S
ATOM  10280  C4  G   A 500     159.559  90.935  28.105  1.00 53.95      A16S
ATOM  10281  N3  G   A 500     158.727  90.734  27.070  1.00 53.95      A16S
ATOM  10282  C2  G   A 500     158.370  91.869  26.497  1.00 53.95      A16S
ATOM  10283  N2  G   A 500     157.524  91.860  25.474  1.00 53.95      A16S
ATOM  10284  N1  G   A 500     158.809  93.100  26.890  1.00 53.95      A16S
ATOM  10285  C6  G   A 500     159.671  93.333  27.949  1.00 53.95      A16S
ATOM  10286  O6  G   A 500     160.012  94.489  28.218  1.00 53.95      A16S
ATOM  10287  C5  G   A 500     160.049  92.124  28.589  1.00 53.95      A16S
ATOM  10288  N7  G   A 500     160.877  91.907  29.677  1.00 53.95      A16S
ATOM  10289  C8  G   A 500     160.878  90.612  29.832  1.00 53.95      A16S
ATOM  10290  C2* G   A 500     160.938  87.923  27.791  1.00 73.99      A16S
ATOM  10291  O2* G   A 500     160.311  86.862  27.104  1.00 73.99      A16S
ATOM  10292  C3* G   A 500     162.033  87.437  28.731  1.00 73.99      A16S
ATOM  10293  O3* G   A 500     162.832  86.418  28.158  1.00 73.99      A16S
ATOM  10294  P   C   A 501     164.163  86.820  27.345  1.00 51.22      A16S
ATOM  10295  O1P C   A 501     164.884  85.570  27.019  1.00 54.23      A16S
ATOM  10296  O2P C   A 501     164.890  87.910  28.034  1.00 54.23      A16S
ATOM  10297  O5* C   A 501     163.602  87.472  26.000  1.00 51.22      A16S
ATOM  10298  C5* C   A 501     163.217  86.659  24.868  1.00 51.22      A16S
ATOM  10299  C4* C   A 501     162.780  87.538  23.718  1.00 51.22      A16S
ATOM  10300  O4* C   A 501     161.684  88.387  24.152  1.00 51.22      A16S
ATOM  10301  C1* C   A 501     161.746  89.635  23.476  1.00 51.22      A16S
ATOM  10302  N1  C   A 501     161.905  90.722  24.467  1.00 54.23      A16S
ATOM  10303  C6  C   A 501     162.671  90.546  25.585  1.00 54.23      A16S
ATOM  10304  C2  C   A 501     161.273  91.968  24.230  1.00 54.23      A16S
ATOM  10305  O2  C   A 501     160.544  92.102  23.233  1.00 54.23      A16S
ATOM  10306  N3  C   A 501     161.475  92.986  25.099  1.00 54.23      A16S
ATOM  10307  C4  C   A 501     162.251  92.804  26.169  1.00 54.23      A16S
ATOM  10308  N4  C   A 501     162.446  93.842  26.983  1.00 54.23      A16S
ATOM  10309  C5  C   A 501     162.869  91.548  26.451  1.00 54.23      A16S
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ATOM  10310  C2*  C   A 501     162.934   89.574   22.517  1.00 51.22      A16S
ATOM  10311  O2*  C   A 501     162.479   89.154   21.247  1.00 51.22      A16S
ATOM  10312  C3*  C   A 501     163.806   88.521   23.177  1.00 51.22      A16S
ATOM  10313  O3*  C   A 501     164.691   87.940   22.240  1.00 51.22      A16S
ATOM  10314  P    G   A 502     166.046   88.711   21.864  1.00 43.45      A16S
ATOM  10315  O1P  G   A 502     166.861   87.839   20.989  1.00 62.99      A16S
ATOM  10316  O2P  G   A 502     166.650   89.253   23.108  1.00 62.99      A16S
ATOM  10317  O5*  G   A 502     165.543   89.947   20.994  1.00 43.45      A16S
ATOM  10318  C5*  G   A 502     164.939   89.724   19.713  1.00 43.45      A16S
ATOM  10319  C4*  G   A 502     164.507   91.024   19.095  1.00 43.45      A16S
ATOM  10320  O4*  G   A 502     163.444   91.612   19.876  1.00 43.45      A16S
ATOM  10321  C1*  G   A 502     163.581   93.024   19.891  1.00 43.45      A16S
ATOM  10322  N9   G   A 502     163.816   93.454   21.268  1.00 62.99      A16S
ATOM  10323  C4   G   A 502     163.800   94.749   21.740  1.00 62.99      A16S
ATOM  10324  N3   G   A 502     163.497   95.854   21.027  1.00 62.99      A16S
ATOM  10325  C2   G   A 502     163.610   96.957   21.750  1.00 62.99      A16S
ATOM  10326  N2   G   A 502     163.347   98.148   21.197  1.00 62.99      A16S
ATOM  10327  N1   G   A 502     163.991   96.973   23.067  1.00 62.99      A16S
ATOM  10328  C6   G   A 502     164.310   95.851   23.819  1.00 62.99      A16S
ATOM  10329  O6   G   A 502     164.660   95.979   24.996  1.00 62.99      A16S
ATOM  10330  C5   G   A 502     164.185   94.660   23.056  1.00 62.99      A16S
ATOM  10331  N7   G   A 502     164.394   93.337   23.418  1.00 62.99      A16S
ATOM  10332  C8   G   A 502     164.151   92.660   22.333  1.00 62.99      A16S
ATOM  10333  C2*  G   A 502     164.782   93.368   19.013  1.00 43.45      A16S
ATOM  10334  O2*  G   A 502     164.337   93.689   17.723  1.00 43.45      A16S
ATOM  10335  C3*  G   A 502     165.580   92.079   19.063  1.00 43.45      A16S
ATOM  10336  O3*  G   A 502     166.423   91.916   17.957  1.00 43.45      A16S
ATOM  10337  P    C   A 503     167.922   92.445   18.046  1.00 46.51      A16S
ATOM  10338  O1P  C   A 503     168.658   92.021   16.834  1.00 50.53      A16S
ATOM  10339  O2P  C   A 503     168.423   92.046   19.387  1.00 50.53      A16S
ATOM  10340  O5*  C   A 503     167.747   94.023   17.986  1.00 46.51      A16S
ATOM  10341  C5*  C   A 503     167.174   94.634   16.822  1.00 46.51      A16S
ATOM  10342  C4*  C   A 503     166.802   96.068   17.100  1.00 46.51      A16S
ATOM  10343  O4*  C   A 503     165.881   96.103   18.216  1.00 46.51      A16S
ATOM  10344  C1*  C   A 503     166.124   97.254   19.001  1.00 46.51      A16S
ATOM  10345  N1   C   A 503     166.572   96.822   20.335  1.00 50.53      A16S
ATOM  10346  C6   C   A 503     166.891   95.518   20.586  1.00 50.53      A16S
ATOM  10347  C2   C   A 503     166.679   97.776   21.339  1.00 50.53      A16S
ATOM  10348  O2   C   A 503     166.358   98.943   21.088  1.00 50.53      A16S
ATOM  10349  N3   C   A 503     167.124   97.405   22.557  1.00 50.53      A16S
ATOM  10350  C4   C   A 503     167.442   96.131   22.789  1.00 50.53      A16S
ATOM  10351  N4   C   A 503     167.882   95.805   24.007  1.00 50.53      A16S
ATOM  10352  C5   C   A 503     167.324   95.133   21.784  1.00 50.53      A16S
ATOM  10353  C2*  C   A 503     167.197   98.072   18.289  1.00 46.51      A16S
ATOM  10354  O2*  C   A 503     166.553   98.996   17.440  1.00 46.51      A16S
ATOM  10355  C3*  C   A 503     167.933   96.993   17.513  1.00 46.51      A16S
ATOM  10356  O3*  C   A 503     168.618   97.521   16.391  1.00 46.51      A16S
ATOM  10357  P    C   A 504     170.133   98.016   16.556  1.00 47.31      A16S
ATOM  10358  O1P  C   A 504     170.652   98.386   15.207  1.00 49.82      A16S
ATOM  10359  O2P  C   A 504     170.845   96.988   17.355  1.00 49.82      A16S
ATOM  10360  O5*  C   A 504     169.983   99.349   17.415  1.00 47.31      A16S
ATOM  10361  C5*  C   A 504     169.411  100.523   16.827  1.00 47.31      A16S
ATOM  10362  C4*  C   A 504     169.675  101.730   17.688  1.00 47.31      A16S
ATOM  10363  O4*  C   A 504     168.926  101.626   18.917  1.00 47.31      A16S
ATOM  10364  C1*  C   A 504     169.673  102.178   19.978  1.00 47.31      A16S
ATOM  10365  N1   C   A 504     169.873  101.121   20.989  1.00 49.82      A16S
ATOM  10366  C6   C   A 504     169.740   99.802   20.654  1.00 49.82      A16S
ATOM  10367  C2   C   A 504     170.199  101.482   22.301  1.00 49.82      A16S
ATOM  10368  O2   C   A 504     170.313  102.679   22.588  1.00 49.82      A16S
ATOM  10369  N3   C   A 504     170.380  100.518   23.222  1.00 49.82      A16S
ATOM  10370  C4   C   A 504     170.238   99.236   22.885  1.00 49.82      A16S
ATOM  10371  N4   C   A 504     170.411   98.319   23.836  1.00 49.82      A16S
ATOM  10372  C5   C   A 504     169.909   98.838   21.561  1.00 49.82      A16S
ATOM  10373  C2*  C   A 504     170.968  102.747   19.389  1.00 47.31      A16S
ATOM  10374  O2*  C   A 504     170.774  104.117   19.113  1.00 47.31      A16S
ATOM  10375  C3*  C   A 504     171.115  101.942   18.107  1.00 47.31      A16S
ATOM  10376  O3*  C   A 504     171.816  102.666   17.102  1.00 47.31      A16S
ATOM  10377  P    G   A 505     173.181  102.068   16.495  1.00 49.57      A16S
ATOM  10378  O1P  G   A 505     174.151  102.181   17.607  1.00 32.66      A16S
ATOM  10379  O2P  G   A 505     172.908  100.724   15.863  1.00 32.66      A16S
ATOM  10380  O5*  G   A 505     173.596  103.105   15.354  1.00 49.57      A16S
ATOM  10381  C5*  G   A 505     174.151  104.387   15.683  1.00 49.57      A16S
ATOM  10382  C4*  G   A 505     174.441  105.182   14.428  1.00 49.57      A16S
ATOM  10383  O4*  G   A 505     175.323  104.426   13.561  1.00 49.57      A16S
ATOM  10384  C1*  G   A 505     174.997  104.669   12.203  1.00 49.57      A16S
ATOM  10385  N9   G   A 505     174.597  103.401   11.604  1.00 32.66      A16S
ATOM  10386  C4   G   A 505     174.341  103.144   10.279  1.00 32.66      A16S
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ATOM  10387  N3  G   A 505     174.409 104.027   9.270  1.00 32.66      A16S
ATOM  10388  C2  G   A 505     174.117 103.468   8.108  1.00 32.66      A16S
ATOM  10389  N2  G   A 505     174.149 104.196   6.994  1.00 32.66      A16S
ATOM  10390  N1  G   A 505     173.777 102.159   7.955  1.00 32.66      A16S
ATOM  10391  C6  G   A 505     173.696 101.241   8.984  1.00 32.66      A16S
ATOM  10392  O6  G   A 505     173.373 100.083   8.748  1.00 32.66      A16S
ATOM  10393  C5  G   A 505     174.014 101.816  10.223  1.00 32.66      A16S
ATOM  10394  N7  G   A 505     174.061 101.242  11.482  1.00 32.66      A16S
ATOM  10395  C8  G   A 505     174.409 102.219  12.268  1.00 32.66      A16S
ATOM  10396  C2* G   A 505     173.882 105.706  12.180  1.00 49.57      A16S
ATOM  10397  O2* G   A 505     174.464 106.978  12.015  1.00 49.57      A16S
ATOM  10398  C3* G   A 505     173.250 105.508  13.552  1.00 49.57      A16S
ATOM  10399  O3* G   A 505     172.560 106.664  14.010  1.00 49.57      A16S
ATOM  10400  P   G   A 506     170.955 106.695  13.947  1.00 49.84      A16S
ATOM  10401  O1P G   A 506     170.504 107.849  14.768  1.00 48.95      A16S
ATOM  10402  O2P G   A 506     170.487 105.329  14.291  1.00 48.95      A16S
ATOM  10403  O5* G   A 506     170.644 106.997  12.415  1.00 49.84      A16S
ATOM  10404  C5* G   A 506     171.158 108.188  11.808  1.00 49.84      A16S
ATOM  10405  C4* G   A 506     170.967 108.154  10.316  1.00 49.84      A16S
ATOM  10406  O4* G   A 506     171.810 107.134   9.731  1.00 49.84      A16S
ATOM  10407  C1* G   A 506     171.139 106.525   8.646  1.00 49.84      A16S
ATOM  10408  N9  G   A 506     170.959 105.113   8.969  1.00 48.95      A16S
ATOM  10409  C4  G   A 506     170.601 104.116   8.101  1.00 48.95      A16S
ATOM  10410  N3  G   A 506     170.316 104.271   6.796  1.00 48.95      A16S
ATOM  10411  C2  G   A 506     170.041 103.120   6.213  1.00 48.95      A16S
ATOM  10412  N2  G   A 506     169.730 103.089   4.906  1.00 48.95      A16S
ATOM  10413  N1  G   A 506     170.053 101.916   6.863  1.00 48.95      A16S
ATOM  10414  C6  G   A 506     170.357 101.737   8.205  1.00 48.95      A16S
ATOM  10415  O6  G   A 506     170.380 100.603   8.688  1.00 48.95      A16S
ATOM  10416  C5  G   A 506     170.631 102.958   8.843  1.00 48.95      A16S
ATOM  10417  N7  G   A 506     170.960 103.224  10.166  1.00 48.95      A16S
ATOM  10418  C8  G   A 506     171.139 104.514  10.196  1.00 48.95      A16S
ATOM  10419  C2* G   A 506     169.816 107.262   8.453  1.00 49.84      A16S
ATOM  10420  O2* G   A 506     170.014 108.299   7.518  1.00 49.84      A16S
ATOM  10421  C3* G   A 506     169.570 107.806   9.851  1.00 49.84      A16S
ATOM  10422  O3* G   A 506     168.719 108.938   9.878  1.00 49.84      A16S
ATOM  10423  P   C   A 507     167.307 108.833  10.634  1.00 41.36      A16S
ATOM  10424  O1P C   A 507     166.771 110.212  10.750  1.00 43.56      A16S
ATOM  10425  O2P C   A 507     167.501 108.015  11.864  1.00 43.56      A16S
ATOM  10426  O5* C   A 507     166.408 108.022   9.608  1.00 41.36      A16S
ATOM  10427  C5* C   A 507     166.156 108.565   8.302  1.00 41.36      A16S
ATOM  10428  C4* C   A 507     165.634 107.504   7.370  1.00 41.36      A16S
ATOM  10429  O4* C   A 507     166.668 106.528   7.100  1.00 41.36      A16S
ATOM  10430  C1* C   A 507     166.076 105.270   6.871  1.00 41.36      A16S
ATOM  10431  N1  C   A 507     166.618 104.300   7.828  1.00 43.56      A16S
ATOM  10432  C6  C   A 507     166.958 104.679   9.089  1.00 43.56      A16S
ATOM  10433  C2  C   A 507     166.751 102.964   7.435  1.00 43.56      A16S
ATOM  10434  O2  C   A 507     166.510 102.653   6.256  1.00 43.56      A16S
ATOM  10435  N3  C   A 507     167.150 102.051   8.339  1.00 43.56      A16S
ATOM  10436  C4  C   A 507     167.434 102.430   9.579  1.00 43.56      A16S
ATOM  10437  N4  C   A 507     167.774 101.500  10.449  1.00 43.56      A16S
ATOM  10438  C5  C   A 507     167.369 103.784   9.985  1.00 43.56      A16S
ATOM  10439  C2* C   A 507     164.567 105.439   7.013  1.00 41.36      A16S
ATOM  10440  O2* C   A 507     164.076 105.673   5.714  1.00 41.36      A16S
ATOM  10441  C3* C   A 507     164.470 106.685   7.874  1.00 41.36      A16S
ATOM  10442  O3* C   A 507     163.256 107.384   7.691  1.00 41.36      A16S
ATOM  10443  P   C   A 508     162.008 107.077   8.663  1.00 45.73      A16S
ATOM  10444  O1P C   A 508     161.493 105.721   8.332  1.00 57.20      A16S
ATOM  10445  O2P C   A 508     161.094 108.244   8.628  1.00 57.20      A16S
ATOM  10446  O5* C   A 508     162.643 106.980  10.117  1.00 45.73      A16S
ATOM  10447  C5* C   A 508     161.833 107.129  11.289  1.00 45.73      A16S
ATOM  10448  C4* C   A 508     162.599 106.661  12.495  1.00 45.73      A16S
ATOM  10449  O4* C   A 508     162.624 105.215  12.486  1.00 45.73      A16S
ATOM  10450  C1* C   A 508     163.952 104.760  12.503  1.00 45.73      A16S
ATOM  10451  N1  C   A 508     164.029 103.542  11.672  1.00 57.20      A16S
ATOM  10452  C6  C   A 508     163.819 103.593  10.323  1.00 57.20      A16S
ATOM  10453  C2  C   A 508     164.325 102.329  12.286  1.00 57.20      A16S
ATOM  10454  O2  C   A 508     164.507 102.302  13.503  1.00 57.20      A16S
ATOM  10455  N3  C   A 508     164.407 101.213  11.544  1.00 57.20      A16S
ATOM  10456  C4  C   A 508     164.211 101.273  10.232  1.00 57.20      A16S
ATOM  10457  N4  C   A 508     164.313 100.142   9.540  1.00 57.20      A16S
ATOM  10458  C5  C   A 508     163.903 102.492   9.571  1.00 57.20      A16S
ATOM  10459  C2* C   A 508     164.816 105.928  12.022  1.00 45.73      A16S
ATOM  10460  O2* C   A 508     166.128 105.817  12.540  1.00 45.73      A16S
ATOM  10461  C3* C   A 508     164.047 107.134  12.557  1.00 45.73      A16S
ATOM  10462  O3* C   A 508     164.442 107.363  13.912  1.00 45.73      A16S
ATOM  10463  P   A   A 509     164.133 108.772  14.627  1.00 41.70      A16S
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ATOM  10464  O1P A   A 509     163.720 109.773  13.626  1.00 41.78      A16S
ATOM  10465  O2P A   A 509     165.283 109.066  15.508  1.00 41.78      A16S
ATOM  10466  O5* A   A 509     162.856 108.412  15.501  1.00 41.70      A16S
ATOM  10467  C5* A   A 509     162.443 109.239  16.586  1.00 41.70      A16S
ATOM  10468  C4* A   A 509     162.625 108.515  17.899  1.00 41.70      A16S
ATOM  10469  O4* A   A 509     161.723 107.368  17.994  1.00 41.70      A16S
ATOM  10470  C1* A   A 509     162.338 106.316  18.735  1.00 41.70      A16S
ATOM  10471  N9  A   A 509     162.644 105.210  17.818  1.00 41.78      A16S
ATOM  10472  C4  A   A 509     162.599 103.862  18.086  1.00 41.78      A16S
ATOM  10473  N3  A   A 509     162.236 103.269  19.231  1.00 41.78      A16S
ATOM  10474  C2  A   A 509     162.312 101.940  19.121  1.00 41.78      A16S
ATOM  10475  N1  A   A 509     162.679 101.195  18.077  1.00 41.78      A16S
ATOM  10476  C6  A   A 509     163.034 101.822  16.937  1.00 41.78      A16S
ATOM  10477  N6  A   A 509     163.386 101.079  15.886  1.00 41.78      A16S
ATOM  10478  C5  A   A 509     163.004 103.230  16.924  1.00 41.78      A16S
ATOM  10479  N7  A   A 509     163.301 104.157  15.939  1.00 41.78      A16S
ATOM  10480  C8  A   A 509     163.068 105.311  16.512  1.00 41.78      A16S
ATOM  10481  C2* A   A 509     163.650 106.887  19.253  1.00 41.70      A16S
ATOM  10482  O2* A   A 509     163.393 107.476  20.505  1.00 41.70      A16S
ATOM  10483  C3* A   A 509     163.978 107.886  18.146  1.00 41.70      A16S
ATOM  10484  O3* A   A 509     165.054 108.817  18.269  1.00 41.70      A16S
ATOM  10485  P   A   A 510     165.364 109.542  19.652  1.00 35.88      A16S
ATOM  10486  O1P A   A 510     164.048 109.760  20.326  1.00 64.75      A16S
ATOM  10487  O2P A   A 510     166.219 110.718  19.322  1.00 64.75      A16S
ATOM  10488  O5* A   A 510     166.257 108.518  20.481  1.00 35.88      A16S
ATOM  10489  C5* A   A 510     166.527 108.780  21.862  1.00 35.88      A16S
ATOM  10490  C4* A   A 510     167.007 107.540  22.530  1.00 35.88      A16S
ATOM  10491  O4* A   A 510     166.172 106.460  22.069  1.00 35.88      A16S
ATOM  10492  C1* A   A 510     166.959 105.306  21.856  1.00 35.88      A16S
ATOM  10493  N9  A   A 510     166.867 104.945  20.437  1.00 64.75      A16S
ATOM  10494  C4  A   A 510     166.519 103.714  19.942  1.00 64.75      A16S
ATOM  10495  N3  A   A 510     166.204 102.616  20.644  1.00 64.75      A16S
ATOM  10496  C2  A   A 510     165.917 101.610  19.831  1.00 64.75      A16S
ATOM  10497  N1  A   A 510     165.911 101.579  18.497  1.00 64.75      A16S
ATOM  10498  C6  A   A 510     166.233 102.699  17.822  1.00 64.75      A16S
ATOM  10499  N6  A   A 510     166.227 102.662  16.493  1.00 64.75      A16S
ATOM  10500  C5  A   A 510     166.557 103.836  18.567  1.00 64.75      A16S
ATOM  10501  N7  A   A 510     166.926 105.122  18.195  1.00 64.75      A16S
ATOM  10502  C8  A   A 510     167.099 105.739  19.336  1.00 64.75      A16S
ATOM  10503  C2* A   A 510     168.381 105.633  22.308  1.00 35.88      A16S
ATOM  10504  O2* A   A 510     168.520 105.275  23.668  1.00 35.88      A16S
ATOM  10505  C3* A   A 510     168.415 107.140  22.149  1.00 35.88      A16S
ATOM  10506  O3* A   A 510     169.338 107.674  23.074  1.00 35.88      A16S
ATOM  10507  P   C   A 511     169.761 109.218  22.989  1.00 60.18      A16S
ATOM  10508  O1P C   A 511     168.883 109.951  23.953  1.00 55.34      A16S
ATOM  10509  O2P C   A 511     169.825 109.664  21.568  1.00 55.34      A16S
ATOM  10510  O5* C   A 511     171.233 109.203  23.587  1.00 60.18      A16S
ATOM  10511  C5* C   A 511     172.355 108.880  22.763  1.00 60.18      A16S
ATOM  10512  C4* C   A 511     173.514 108.459  23.621  1.00 60.18      A16S
ATOM  10513  O4* C   A 511     173.331 107.084  24.056  1.00 60.18      A16S
ATOM  10514  C1* C   A 511     174.506 106.366  23.771  1.00 60.18      A16S
ATOM  10515  N1  C   A 511     174.210 104.931  23.705  1.00 55.34      A16S
ATOM  10516  C6  C   A 511     173.692 104.353  22.584  1.00 55.34      A16S
ATOM  10517  C2  C   A 511     174.481 104.160  24.830  1.00 55.34      A16S
ATOM  10518  O2  C   A 511     174.934 104.721  25.840  1.00 55.34      A16S
ATOM  10519  N3  C   A 511     174.247 102.831  24.801  1.00 55.34      A16S
ATOM  10520  C4  C   A 511     173.746 102.273  23.704  1.00 55.34      A16S
ATOM  10521  N4  C   A 511     173.530 100.958  23.714  1.00 55.34      A16S
ATOM  10522  C5  C   A 511     173.443 103.039  22.541  1.00 55.34      A16S
ATOM  10523  C2* C   A 511     175.115 107.056  22.557  1.00 60.18      A16S
ATOM  10524  O2* C   A 511     176.475 106.718  22.410  1.00 60.18      A16S
ATOM  10525  C3* C   A 511     174.877 108.512  22.937  1.00 60.18      A16S
ATOM  10526  O3* C   A 511     175.818 108.876  23.948  1.00 60.18      A16S
ATOM  10527  P   U   A 512     176.806 110.128  23.740  1.00 56.73      A16S
ATOM  10528  O1P U   A 512     176.092 111.359  24.173  1.00 69.93      A16S
ATOM  10529  O2P U   A 512     177.385 110.061  22.375  1.00 69.93      A16S
ATOM  10530  O5* U   A 512     177.966 109.809  24.778  1.00 56.73      A16S
ATOM  10531  C5* U   A 512     178.853 108.708  24.558  1.00 56.73      A16S
ATOM  10532  C4* U   A 512     179.051 107.937  25.834  1.00 56.73      A16S
ATOM  10533  O4* U   A 512     177.905 107.084  26.076  1.00 56.73      A16S
ATOM  10534  C1* U   A 512     178.333 105.878  26.699  1.00 56.73      A16S
ATOM  10535  N1  U   A 512     177.972 104.736  25.845  1.00 69.93      A16S
ATOM  10536  C6  U   A 512     177.642 104.898  24.521  1.00 69.93      A16S
ATOM  10537  C2  U   A 512     177.977 103.480  26.425  1.00 69.93      A16S
ATOM  10538  O2  U   A 512     178.290 103.283  27.585  1.00 69.93      A16S
ATOM  10539  N3  U   A 512     177.610 102.460  25.594  1.00 69.93      A16S
ATOM  10540  C4  U   A 512     177.251 102.558  24.274  1.00 69.93      A16S
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ATOM  10541  O4  U   A 512     176.834 101.558  23.695  1.00 69.93      A16S
ATOM  10542  C5  U   A 512     177.296 103.880  23.737  1.00 69.93      A16S
ATOM  10543  C2* U   A 512     179.847 105.957  26.888  1.00 56.73      A16S
ATOM  10544  O2* U   A 512     180.160 106.379  28.206  1.00 56.73      A16S
ATOM  10545  C3* U   A 512     180.224 106.972  25.819  1.00 56.73      A16S
ATOM  10546  O3* U   A 512     181.439 107.629  26.126  1.00 56.73      A16S
ATOM  10547  P   C   A 513     182.816 107.023  25.588  1.00 61.96      A16S
ATOM  10548  O1P C   A 513     183.829 108.095  25.791  1.00 70.99      A16S
ATOM  10549  O2P C   A 513     182.579 106.474  24.228  1.00 70.99      A16S
ATOM  10550  O5* C   A 513     183.118 105.802  26.568  1.00 61.96      A16S
ATOM  10551  C5* C   A 513     183.640 106.035  27.883  1.00 61.96      A16S
ATOM  10552  C4* C   A 513     183.782 104.735  28.632  1.00 61.96      A16S
ATOM  10553  O4* C   A 513     182.492 104.080  28.713  1.00 61.96      A16S
ATOM  10554  C1* C   A 513     182.671 102.674  28.694  1.00 61.96      A16S
ATOM  10555  N1  C   A 513     181.982 102.115  27.520  1.00 70.99      A16S
ATOM  10556  C6  C   A 513     181.556 102.916  26.495  1.00 70.99      A16S
ATOM  10557  C2  C   A 513     181.789 100.730  27.462  1.00 70.99      A16S
ATOM  10558  O2  C   A 513     182.158 100.030  28.418  1.00 70.99      A16S
ATOM  10559  N3  C   A 513     181.208 100.191  26.372  1.00 70.99      A16S
ATOM  10560  C4  C   A 513     180.813 100.977  25.370  1.00 70.99      A16S
ATOM  10561  N4  C   A 513     180.259 100.396  24.306  1.00 70.99      A16S
ATOM  10562  C5  C   A 513     180.973 102.394  25.413  1.00 70.99      A16S
ATOM  10563  C2* C   A 513     184.167 102.397  28.613  1.00 61.96      A16S
ATOM  10564  O2* C   A 513     184.643 102.158  29.916  1.00 61.96      A16S
ATOM  10565  C3* C   A 513     184.681 103.690  28.004  1.00 61.96      A16S
ATOM  10566  O3* C   A 513     186.033 103.913  28.319  1.00 61.96      A16S
ATOM  10567  P   C   A 514     187.165 103.418  27.301  1.00 56.99      A16S
ATOM  10568  O1P C   A 514     188.470 103.882  27.841  1.00 80.76      A16S
ATOM  10569  O2P C   A 514     186.737 103.849  25.939  1.00 80.76      A16S
ATOM  10570  O5* C   A 514     187.120 101.825  27.407  1.00 56.99      A16S
ATOM  10571  C5* C   A 514     187.539 101.172  28.611  1.00 56.99      A16S
ATOM  10572  C4* C   A 514     187.193  99.701  28.584  1.00 56.99      A16S
ATOM  10573  O4* C   A 514     185.763  99.534  28.411  1.00 56.99      A16S
ATOM  10574  C1* C   A 514     185.507  98.327  27.702  1.00 56.99      A16S
ATOM  10575  N1  C   A 514     184.782  98.628  26.442  1.00 80.76      A16S
ATOM  10576  C6  C   A 514     184.742  99.895  25.930  1.00 80.76      A16S
ATOM  10577  C2  C   A 514     184.139  97.572  25.760  1.00 80.76      A16S
ATOM  10578  O2  C   A 514     184.171  96.426  26.246  1.00 80.76      A16S
ATOM  10579  N3  C   A 514     183.505  97.828  24.595  1.00 80.76      A16S
ATOM  10580  C4  C   A 514     183.489  99.066  24.103  1.00 80.76      A16S
ATOM  10581  N4  C   A 514     182.866  99.267  22.943  1.00 80.76      A16S
ATOM  10582  C5  C   A 514     184.116 100.154  24.776  1.00 80.76      A16S
ATOM  10583  C2* C   A 514     186.854  97.661  27.431  1.00 56.99      A16S
ATOM  10584  O2* C   A 514     187.105  96.714  28.447  1.00 56.99      A16S
ATOM  10585  C3* C   A 514     187.804  98.850  27.482  1.00 56.99      A16S
ATOM  10586  O3* C   A 514     189.126  98.426  27.776  1.00 56.99      A16S
ATOM  10587  P   G   A 515     190.136  98.096  26.568  1.00 65.06      A16S
ATOM  10588  O1P G   A 515     191.451  97.715  27.148  1.00 70.37      A16S
ATOM  10589  O2P G   A 515     190.057  99.223  25.587  1.00 70.37      A16S
ATOM  10590  O5* G   A 515     189.534  96.779  25.910  1.00 65.06      A16S
ATOM  10591  C5* G   A 515     189.463  95.563  26.663  1.00 65.06      A16S
ATOM  10592  C4* G   A 515     188.819  94.470  25.846  1.00 65.06      A16S
ATOM  10593  O4* G   A 515     187.439  94.814  25.563  1.00 65.06      A16S
ATOM  10594  C1* G   A 515     187.072  94.289  24.301  1.00 65.06      A16S
ATOM  10595  N9  G   A 515     186.658  95.385  23.429  1.00 70.37      A16S
ATOM  10596  C4  G   A 515     185.900  95.257  22.293  1.00 70.37      A16S
ATOM  10597  N3  G   A 515     185.412  94.101  21.798  1.00 70.37      A16S
ATOM  10598  C2  G   A 515     184.716  94.292  20.699  1.00 70.37      A16S
ATOM  10599  N2  G   A 515     184.166  93.241  20.072  1.00 70.37      A16S
ATOM  10600  N1  G   A 515     184.508  95.524  20.133  1.00 70.37      A16S
ATOM  10601  C6  G   A 515     184.998  96.726  20.630  1.00 70.37      A16S
ATOM  10602  O6  G   A 515     184.740  97.781  20.051  1.00 70.37      A16S
ATOM  10603  C5  G   A 515     185.757  96.533  21.801  1.00 70.37      A16S
ATOM  10604  N7  G   A 515     186.422  97.448  22.603  1.00 70.37      A16S
ATOM  10605  C8  G   A 515     186.939  96.724  23.557  1.00 70.37      A16S
ATOM  10606  C2* G   A 515     188.280  93.547  23.731  1.00 65.06      A16S
ATOM  10607  O2* G   A 515     188.180  92.164  24.005  1.00 65.06      A16S
ATOM  10608  C3* G   A 515     189.423  94.212  24.478  1.00 65.06      A16S
ATOM  10609  O3* G   A 515     190.562  93.379  24.524  1.00 65.06      A16S
ATOM  10610  P   U   A 516     191.758  93.639  23.489  1.00 74.38      A16S
ATOM  10611  O1P U   A 516     192.814  92.655  23.816  1.00 65.54      A16S
ATOM  10612  O2P U   A 516     192.073  95.096  23.487  1.00 65.54      A16S
ATOM  10613  O5* U   A 516     191.147  93.279  22.059  1.00 74.38      A16S
ATOM  10614  C5* U   A 516     190.690  91.942  21.749  1.00 74.38      A16S
ATOM  10615  C4* U   A 516     189.903  91.935  20.456  1.00 74.38      A16S
ATOM  10616  O4* U   A 516     188.748  92.799  20.588  1.00 74.38      A16S
ATOM  10617  C1* U   A 516     188.453  93.395  19.337  1.00 74.38      A16S
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ATOM  10618  N1  U   A 516     188.397  94.857  19.499  1.00 65.54      A16S
ATOM  10619  C6  U   A 516     189.017  95.486  20.546  1.00 65.54      A16S
ATOM  10620  C2  U   A 516     187.692  95.587  18.561  1.00 65.54      A16S
ATOM  10621  O2  U   A 516     187.101  95.072  17.630  1.00 65.54      A16S
ATOM  10622  N3  U   A 516     187.693  96.948  18.760  1.00 65.54      A16S
ATOM  10623  C4  U   A 516     188.294  97.637  19.790  1.00 65.54      A16S
ATOM  10624  O4  U   A 516     188.180  98.861  19.857  1.00 65.54      A16S
ATOM  10625  C5  U   A 516     188.986  96.815  20.720  1.00 65.54      A16S
ATOM  10626  C2* U   A 516     189.479  92.896  18.318  1.00 74.38      A16S
ATOM  10627  O2* U   A 516     188.892  91.838  17.580  1.00 74.38      A16S
ATOM  10628  C3* U   A 516     190.626  92.436  19.216  1.00 74.38      A16S
ATOM  10629  O3* U   A 516     191.356  91.371  18.611  1.00 74.38      A16S
ATOM  10630  P   G   A 517     192.883  91.597  18.151  1.00 56.75      A16S
ATOM  10631  O1P G   A 517     193.391  90.248  17.781  1.00 73.50      A16S
ATOM  10632  O2P G   A 517     193.590  92.391  19.183  1.00 73.50      A16S
ATOM  10633  O5* G   A 517     192.796  92.488  16.832  1.00 56.75      A16S
ATOM  10634  C5* G   A 517     192.078  92.017  15.683  1.00 56.75      A16S
ATOM  10635  C4* G   A 517     191.858  93.140  14.705  1.00 56.75      A16S
ATOM  10636  O4* G   A 517     191.274  94.257  15.414  1.00 56.75      A16S
ATOM  10637  C1* G   A 517     192.078  95.403  15.266  1.00 56.75      A16S
ATOM  10638  N9  G   A 517     192.056  96.117  16.539  1.00 73.50      A16S
ATOM  10639  C4  G   A 517     191.469  97.339  16.774  1.00 73.50      A16S
ATOM  10640  N3  G   A 517     190.850  98.109  15.858  1.00 73.50      A16S
ATOM  10641  C2  G   A 517     190.362  99.210  16.391  1.00 73.50      A16S
ATOM  10642  N2  G   A 517     189.724 100.099  15.622  1.00 73.50      A16S
ATOM  10643  N1  G   A 517     190.465  99.523  17.715  1.00 73.50      A16S
ATOM  10644  C6  G   A 517     191.090  98.744  18.673  1.00 73.50      A16S
ATOM  10645  O6  G   A 517     191.105  99.117  19.844  1.00 73.50      A16S
ATOM  10646  C5  G   A 517     191.631  97.571  18.118  1.00 73.50      A16S
ATOM  10647  N7  G   A 517     192.330  96.533  18.717  1.00 73.50      A16S
ATOM  10648  C8  G   A 517     192.568  95.697  17.743  1.00 73.50      A16S
ATOM  10649  C2* G   A 517     193.451  94.926  14.801  1.00 56.75      A16S
ATOM  10650  O2* G   A 517     194.059  95.928  14.002  1.00 56.75      A16S
ATOM  10651  C3* G   A 517     193.091  93.678  13.997  1.00 56.75      A16S
ATOM  10652  O3* G   A 517     192.668  94.043  12.690  1.00 56.75      A16S
ATOM  10653  P   C   A 518     193.458  93.498  11.407  1.00 62.82      A16S
ATOM  10654  O1P C   A 518     194.262  92.326  11.831  1.00 43.16      A16S
ATOM  10655  O2P C   A 518     194.126  94.662  10.763  1.00 43.16      A16S
ATOM  10656  O5* C   A 518     192.306  92.935  10.456  1.00 62.82      A16S
ATOM  10657  C5* C   A 518     191.182  93.756  10.058  1.00 62.82      A16S
ATOM  10658  C4* C   A 518     190.441  93.102   8.906  1.00 62.82      A16S
ATOM  10659  O4* C   A 518     189.361  93.966   8.446  1.00 62.82      A16S
ATOM  10660  C1* C   A 518     189.561  94.295   7.088  1.00 62.82      A16S
ATOM  10661  N1  C   A 518     189.101  95.674   6.851  1.00 43.16      A16S
ATOM  10662  C6  C   A 518     188.904  96.535   7.890  1.00 43.16      A16S
ATOM  10663  C2  C   A 518     188.855  96.091   5.534  1.00 43.16      A16S
ATOM  10664  O2  C   A 518     189.068  95.307   4.594  1.00 43.16      A16S
ATOM  10665  N3  C   A 518     188.399  97.339   5.316  1.00 43.16      A16S
ATOM  10666  C4  C   A 518     188.203  98.165   6.341  1.00 43.16      A16S
ATOM  10667  N4  C   A 518     187.741  99.391   6.075  1.00 43.16      A16S
ATOM  10668  C5  C   A 518     188.465  97.776   7.683  1.00 43.16      A16S
ATOM  10669  C2* C   A 518     191.044  94.070   6.818  1.00 62.82      A16S
ATOM  10670  O2* C   A 518     191.279  93.806   5.457  1.00 62.82      A16S
ATOM  10671  C3* C   A 518     191.321  92.860   7.694  1.00 62.82      A16S
ATOM  10672  O3* C   A 518     190.841  91.704   7.036  1.00 62.82      A16S
ATOM  10673  P   C   A 519     191.746  90.392   6.982  1.00 58.25      A16S
ATOM  10674  O1P C   A 519     193.124  90.876   6.705  1.00 53.95      A16S
ATOM  10675  O2P C   A 519     191.126  89.388   6.079  1.00 53.95      A16S
ATOM  10676  O5* C   A 519     191.635  89.822   8.463  1.00 58.25      A16S
ATOM  10677  C5* C   A 519     190.474  89.084   8.877  1.00 58.25      A16S
ATOM  10678  C4* C   A 519     190.602  88.677  10.322  1.00 58.25      A16S
ATOM  10679  O4* C   A 519     190.740  89.859  11.142  1.00 58.25      A16S
ATOM  10680  C1* C   A 519     190.295  89.567  12.449  1.00 58.25      A16S
ATOM  10681  N1  C   A 519     189.593  90.739  13.003  1.00 53.95      A16S
ATOM  10682  C6  C   A 519     189.315  91.824  12.221  1.00 53.95      A16S
ATOM  10683  C2  C   A 519     189.205  90.724  14.352  1.00 53.95      A16S
ATOM  10684  O2  C   A 519     189.503  89.742  15.059  1.00 53.95      A16S
ATOM  10685  N3  C   A 519     188.525  91.779  14.854  1.00 53.95      A16S
ATOM  10686  C4  C   A 519     188.246  92.824  14.073  1.00 53.95      A16S
ATOM  10687  N4  C   A 519     187.561  93.834  14.600  1.00 53.95      A16S
ATOM  10688  C5  C   A 519     188.652  92.876  12.711  1.00 53.95      A16S
ATOM  10689  C2* C   A 519     189.493  88.259  12.405  1.00 58.25      A16S
ATOM  10690  O2* C   A 519     190.174  87.266  13.136  1.00 58.25      A16S
ATOM  10691  C3* C   A 519     189.396  87.967  10.906  1.00 58.25      A16S
ATOM  10692  O3* C   A 519     189.493  86.574  10.639  1.00 58.25      A16S
ATOM  10693  P   A   A 520     188.161  85.683  10.548  1.00 59.16      A16S
ATOM  10694  O1P A   A 520     188.564  84.244  10.532  1.00 59.63      A16S
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ATOM  10695  O2P A   A 520     187.296  86.224   9.458  1.00 59.63      A16S
ATOM  10696  O5* A   A 520     187.421  85.978  11.922  1.00 59.16      A16S
ATOM  10697  C5* A   A 520     187.850  85.368  13.138  1.00 59.16      A16S
ATOM  10698  C4* A   A 520     187.034  85.895  14.286  1.00 59.16      A16S
ATOM  10699  O4* A   A 520     187.345  87.293  14.498  1.00 59.16      A16S
ATOM  10700  C1* A   A 520     186.189  87.974  14.965  1.00 59.16      A16S
ATOM  10701  N9  A   A 520     185.999  89.188  14.162  1.00 59.63      A16S
ATOM  10702  C4  A   A 520     185.367  90.343  14.557  1.00 59.63      A16S
ATOM  10703  N3  A   A 520     184.781  90.588  15.735  1.00 59.63      A16S
ATOM  10704  C2  A   A 520     184.295  91.830  15.770  1.00 59.63      A16S
ATOM  10705  N1  A   A 520     184.323  92.782  14.830  1.00 59.63      A16S
ATOM  10706  C6  A   A 520     184.913  92.499  13.652  1.00 59.63      A16S
ATOM  10707  N6  A   A 520     184.935  93.446  12.706  1.00 59.63      A16S
ATOM  10708  C5  A   A 520     185.472  91.216  13.491  1.00 59.63      A16S
ATOM  10709  N7  A   A 520     186.145  90.621  12.438  1.00 59.63      A16S
ATOM  10710  C8  A   A 520     186.430  89.422  12.882  1.00 59.63      A16S
ATOM  10711  C2* A   A 520     185.028  86.974  14.982  1.00 59.16      A16S
ATOM  10712  O2* A   A 520     184.844  86.482  16.288  1.00 59.16      A16S
ATOM  10713  C3* A   A 520     185.538  85.883  14.054  1.00 59.16      A16S
ATOM  10714  O3* A   A 520     184.973  84.615  14.325  1.00 59.16      A16S
ATOM  10715  P   G   A 521     183.814  84.062  13.359  1.00 50.29      A16S
ATOM  10716  O1P G   A 521     183.512  82.637  13.698  1.00 39.54      A16S
ATOM  10717  O2P G   A 521     184.207  84.422  11.951  1.00 39.54      A16S
ATOM  10718  O5* G   A 521     182.575  84.977  13.761  1.00 50.29      A16S
ATOM  10719  C5* G   A 521     181.919  85.810  12.787  1.00 50.29      A16S
ATOM  10720  C4* G   A 521     181.488  87.100  13.419  1.00 50.29      A16S
ATOM  10721  O4* G   A 521     182.581  88.055  13.376  1.00 50.29      A16S
ATOM  10722  C1* G   A 521     182.068  89.371  13.230  1.00 50.29      A16S
ATOM  10723  N9  G   A 521     182.496  89.894  11.938  1.00 39.54      A16S
ATOM  10724  C4  G   A 521     182.274  91.165  11.466  1.00 39.54      A16S
ATOM  10725  N3  G   A 521     181.681  92.164  12.143  1.00 39.54      A16S
ATOM  10726  C2  G   A 521     181.535  93.239  11.400  1.00 39.54      A16S
ATOM  10727  N2  G   A 521     180.928  94.306  11.911  1.00 39.54      A16S
ATOM  10728  N1  G   A 521     181.963  93.339  10.102  1.00 39.54      A16S
ATOM  10729  C6  G   A 521     182.582  92.325   9.388  1.00 39.54      A16S
ATOM  10730  O6  G   A 521     182.922  92.515   8.219  1.00 39.54      A16S
ATOM  10731  C5  G   A 521     182.726  91.159  10.167  1.00 39.54      A16S
ATOM  10732  N7  G   A 521     183.259  89.922   9.838  1.00 39.54      A16S
ATOM  10733  C8  G   A 521     183.120  89.210  10.924  1.00 39.54      A16S
ATOM  10734  C2* G   A 521     180.545  89.248  13.216  1.00 50.29      A16S
ATOM  10735  O2* G   A 521     180.043  89.464  14.519  1.00 50.29      A16S
ATOM  10736  C3* G   A 521     180.368  87.823  12.710  1.00 50.29      A16S
ATOM  10737  O3* G   A 521     179.114  87.244  13.007  1.00 50.29      A16S
ATOM  10738  P   C   A 522     177.962  87.237  11.885  1.00 39.56      A16S
ATOM  10739  O1P C   A 522     176.866  86.365  12.397  1.00 51.61      A16S
ATOM  10740  O2P C   A 522     178.547  86.968  10.559  1.00 51.61      A16S
ATOM  10741  O5* C   A 522     177.451  88.744  11.884  1.00 39.56      A16S
ATOM  10742  C5* C   A 522     176.945  89.336  13.089  1.00 39.56      A16S
ATOM  10743  C4* C   A 522     176.538  90.766  12.841  1.00 39.56      A16S
ATOM  10744  O4* C   A 522     177.681  91.537  12.403  1.00 39.56      A16S
ATOM  10745  C1* C   A 522     177.241  92.588  11.566  1.00 39.56      A16S
ATOM  10746  N1  C   A 522     177.979  92.546  10.292  1.00 51.61      A16S
ATOM  10747  C6  C   A 522     178.608  91.411   9.863  1.00 51.61      A16S
ATOM  10748  C2  C   A 522     178.005  93.700   9.514  1.00 51.61      A16S
ATOM  10749  O2  C   A 522     177.471  94.729   9.952  1.00 51.61      A16S
ATOM  10750  N3  C   A 522     178.614  93.677   8.316  1.00 51.61      A16S
ATOM  10751  C4  C   A 522     179.205  92.565   7.892  1.00 51.61      A16S
ATOM  10752  N4  C   A 522     179.777  92.589   6.686  1.00 51.61      A16S
ATOM  10753  C5  C   A 522     179.231  91.378   8.680  1.00 51.61      A16S
ATOM  10754  C2* C   A 522     175.733  92.443  11.364  1.00 39.56      A16S
ATOM  10755  O2* C   A 522     175.038  93.344  12.188  1.00 39.56      A16S
ATOM  10756  C3* C   A 522     175.497  90.997  11.762  1.00 39.56      A16S
ATOM  10757  O3* C   A 522     174.186  90.836  12.259  1.00 39.56      A16S
ATOM  10758  P   A   A 523     173.097  90.095  11.358  1.00 46.17      A16S
ATOM  10759  O1P A   A 523     171.847  90.032  12.162  1.00 53.14      A16S
ATOM  10760  O2P A   A 523     173.716  88.834  10.862  1.00 53.14      A16S
ATOM  10761  O5* A   A 523     172.883  91.090  10.137  1.00 46.17      A16S
ATOM  10762  C5* A   A 523     172.450  92.430  10.372  1.00 46.17      A16S
ATOM  10763  C4* A   A 523     172.600  93.263   9.127  1.00 46.17      A16S
ATOM  10764  O4* A   A 523     173.995  93.557   8.872  1.00 46.17      A16S
ATOM  10765  C1* A   A 523     174.227  93.591   7.470  1.00 46.17      A16S
ATOM  10766  N9  A   A 523     175.169  92.519   7.130  1.00 53.14      A16S
ATOM  10767  C4  A   A 523     176.059  92.514   6.087  1.00 53.14      A16S
ATOM  10768  N3  A   A 523     176.269  93.491   5.193  1.00 53.14      A16S
ATOM  10769  C2  A   A 523     177.195  93.121   4.308  1.00 53.14      A16S
ATOM  10770  N1  A   A 523     177.882  91.975   4.223  1.00 53.14      A16S
ATOM  10771  C6  A   A 523     177.651  91.019   5.136  1.00 53.14      A16S
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ATOM  10772  N6  A   A 523     178.341  89.884   5.046  1.00 53.14      A16S
ATOM  10773  C5  A   A 523     176.690  91.285   6.132  1.00 53.14      A16S
ATOM  10774  N7  A   A 523     176.220  90.535   7.198  1.00 53.14      A16S
ATOM  10775  C8  A   A 523     175.327  91.311   7.758  1.00 53.14      A16S
ATOM  10776  C2* A   A 523     172.869  93.405   6.786  1.00 46.17      A16S
ATOM  10777  O2* A   A 523     172.286  94.675   6.576  1.00 46.17      A16S
ATOM  10778  C3* A   A 523     172.102  92.630   7.844  1.00 46.17      A16S
ATOM  10779  O3* A   A 523     170.716  92.813   7.721  1.00 46.17      A16S
ATOM  10780  P   G   A 524     169.818  91.675   7.046  1.00 40.54      A16S
ATOM  10781  O1P G   A 524     168.625  91.465   7.920  1.00 43.76      A16S
ATOM  10782  O2P G   A 524     170.643  90.510   6.655  1.00 43.76      A16S
ATOM  10783  O5* G   A 524     169.349  92.389   5.717  1.00 40.54      A16S
ATOM  10784  C5* G   A 524     168.274  91.869   4.953  1.00 40.54      A16S
ATOM  10785  C4* G   A 524     167.539  93.003   4.313  1.00 40.54      A16S
ATOM  10786  O4* G   A 524     166.818  93.729   5.326  1.00 40.54      A16S
ATOM  10787  C1* G   A 524     166.802  95.100   4.994  1.00 40.54      A16S
ATOM  10788  N9  G   A 524     167.171  95.871   6.176  1.00 43.76      A16S
ATOM  10789  C4  G   A 524     167.034  97.225   6.339  1.00 43.76      A16S
ATOM  10790  N3  G   A 524     166.602  98.091   5.405  1.00 43.76      A16S
ATOM  10791  C2  G   A 524     166.550  99.324   5.863  1.00 43.76      A16S
ATOM  10792  N2  G   A 524     166.149 100.318   5.047  1.00 43.76      A16S
ATOM  10793  N1  G   A 524     166.884  99.675   7.151  1.00 43.76      A16S
ATOM  10794  C6  G   A 524     167.308  98.788   8.137  1.00 43.76      A16S
ATOM  10795  O6  G   A 524     167.530  99.192   9.283  1.00 43.76      A16S
ATOM  10796  C5  G   A 524     167.397  97.473   7.642  1.00 43.76      A16S
ATOM  10797  N7  G   A 524     167.798  96.306   8.273  1.00 43.76      A16S
ATOM  10798  C8  G   A 524     167.661  95.385   7.361  1.00 43.76      A16S
ATOM  10799  C2* G   A 524     167.620  95.312   3.721  1.00 40.54      A16S
ATOM  10800  O2* G   A 524     166.698  95.472   2.666  1.00 40.54      A16S
ATOM  10801  C3* G   A 524     168.447  94.028   3.658  1.00 40.54      A16S
ATOM  10802  O3* G   A 524     168.731  93.581   2.340  1.00 40.54      A16S
ATOM  10803  P   C   A 525     170.192  93.794   1.711  1.00 40.11      A16S
ATOM  10804  O1P C   A 525     170.182  92.976   0.468  1.00 42.52      A16S
ATOM  10805  O2P C   A 525     171.268  93.570   2.727  1.00 42.52      A16S
ATOM  10806  O5* C   A 525     170.172  95.331   1.288  1.00 40.11      A16S
ATOM  10807  C5* C   A 525     169.395  95.759   0.163  1.00 40.11      A16S
ATOM  10808  C4* C   A 525     169.310  97.261   0.121  1.00 40.11      A16S
ATOM  10809  O4* C   A 525     168.492  97.729   1.215  1.00 40.11      A16S
ATOM  10810  C1* C   A 525     169.000  98.956   1.702  1.00 40.11      A16S
ATOM  10811  N1  C   A 525     169.444  98.748   3.080  1.00 42.52      A16S
ATOM  10812  C6  C   A 525     169.829  97.511   3.512  1.00 42.52      A16S
ATOM  10813  C2  C   A 525     169.461  99.827   3.947  1.00 42.52      A16S
ATOM  10814  O2  C   A 525     169.167 100.949   3.503  1.00 42.52      A16S
ATOM  10815  N3  C   A 525     169.811  99.630   5.243  1.00 42.52      A16S
ATOM  10816  C4  C   A 525     170.159  98.413   5.659  1.00 42.52      A16S
ATOM  10817  N4  C   A 525     170.475  98.249   6.929  1.00 42.52      A16S
ATOM  10818  C5  C   A 525     170.191  97.303   4.781  1.00 42.52      A16S
ATOM  10819  C2* C   A 525     170.166  99.354   0.815  1.00 40.11      A16S
ATOM  10820  O2* C   A 525     169.677 100.167  -0.221  1.00 40.11      A16S
ATOM  10821  C3* C   A 525     170.618  98.003   0.298  1.00 40.11      A16S
ATOM  10822  O3* C   A 525     171.353  98.126  -0.897  1.00 40.11      A16S
ATOM  10823  P   C   A 526     172.948  98.104  -0.823  1.00 36.93      A16S
ATOM  10824  O1P C   A 526     173.508  97.983  -2.186  1.00 26.59      A16S
ATOM  10825  O2P C   A 526     173.273  97.079   0.206  1.00 26.59      A16S
ATOM  10826  O5* C   A 526     173.337  99.539  -0.265  1.00 36.93      A16S
ATOM  10827  C5* C   A 526     173.170 100.717  -1.069  1.00 36.93      A16S
ATOM  10828  C4* C   A 526     173.382 101.948  -0.223  1.00 36.93      A16S
ATOM  10829  O4* C   A 526     172.468 101.878   0.893  1.00 36.93      A16S
ATOM  10830  C1* C   A 526     173.063 102.459   2.034  1.00 36.93      A16S
ATOM  10831  N1  C   A 526     173.109 101.479   3.119  1.00 26.59      A16S
ATOM  10832  C6  C   A 526     173.095 100.139   2.870  1.00 26.59      A16S
ATOM  10833  C2  C   A 526     173.181 101.951   4.425  1.00 26.59      A16S
ATOM  10834  O2  C   A 526     173.150 103.180   4.615  1.00 26.59      A16S
ATOM  10835  N3  C   A 526     173.278 101.069   5.445  1.00 26.59      A16S
ATOM  10836  C4  C   A 526     173.291  99.765   5.189  1.00 26.59      A16S
ATOM  10837  N4  C   A 526     173.422  98.933   6.205  1.00 26.59      A16S
ATOM  10838  C5  C   A 526     173.180  99.255   3.868  1.00 26.59      A16S
ATOM  10839  C2* C   A 526     174.448 102.947   1.648  1.00 36.93      A16S
ATOM  10840  O2* C   A 526     174.328 104.306   1.304  1.00 36.93      A16S
ATOM  10841  C3* C   A 526     174.748 102.090   0.437  1.00 36.93      A16S
ATOM  10842  O3* C   A 526     175.694 102.750  -0.394  1.00 36.93      A16S
ATOM  10843  P   G   A 527     177.165 102.139  -0.535  1.00 45.73      A16S
ATOM  10844  O1P G   A 527     178.126 103.232  -0.852  1.00 49.45      A16S
ATOM  10845  O2P G   A 527     177.049 100.966  -1.446  1.00 49.45      A16S
ATOM  10846  O5* G   A 527     177.463 101.568   0.912  1.00 45.73      A16S
ATOM  10847  C5* G   A 527     178.290 102.272   1.844  1.00 45.73      A16S
ATOM  10848  C4* G   A 527     177.753 102.071   3.233  1.00 45.73      A16S
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ATOM  10849  O4*  G   A 527     176.912 100.889   3.259  1.00 45.73      A16S
ATOM  10850  C1*  G   A 527     177.056 100.233   4.496  1.00 45.73      A16S
ATOM  10851  N9   G   A 527     177.718  98.957   4.257  1.00 49.45      A16S
ATOM  10852  C4   G   A 527     177.852  97.947   5.172  1.00 49.45      A16S
ATOM  10853  N3   G   A 527     177.364  97.954   6.426  1.00 49.45      A16S
ATOM  10854  C2   G   A 527     177.686  96.865   7.084  1.00 49.45      A16S
ATOM  10855  N2   G   A 527     177.289  96.721   8.348  1.00 49.45      A16S
ATOM  10856  N1   G   A 527     178.420  95.844   6.557  1.00 49.45      A16S
ATOM  10857  C6   G   A 527     178.927  95.806   5.269  1.00 49.45      A16S
ATOM  10858  O6   G   A 527     179.573  94.829   4.901  1.00 49.45      A16S
ATOM  10859  C5   G   A 527     178.597  96.976   4.544  1.00 49.45      A16S
ATOM  10860  N7   G   A 527     178.906  97.355   3.244  1.00 49.45      A16S
ATOM  10861  C8   G   A 527     178.358  98.533   3.115  1.00 49.45      A16S
ATOM  10862  C2*  G   A 527     177.930 101.126   5.371  1.00 45.73      A16S
ATOM  10863  O2*  G   A 527     177.108 102.082   6.005  1.00 45.73      A16S
ATOM  10864  C3*  G   A 527     178.773 101.831   4.329  1.00 45.73      A16S
ATOM  10865  O3*  G   A 527     179.298 103.033   4.851  1.00 45.73      A16S
ATOM  10866  P    C   A 528     180.796 103.053   5.415  1.00 47.35      A16S
ATOM  10867  O1P  C   A 528     180.997 104.391   6.026  1.00 47.05      A16S
ATOM  10868  O2P  C   A 528     181.667 102.616   4.306  1.00 47.05      A16S
ATOM  10869  O5*  C   A 528     180.815 101.950   6.568  1.00 47.35      A16S
ATOM  10870  C5*  C   A 528     180.288 102.285   7.848  1.00 47.35      A16S
ATOM  10871  C4*  C   A 528     180.590 101.235   8.900  1.00 47.35      A16S
ATOM  10872  O4*  C   A 528     179.869 100.005   8.663  1.00 47.35      A16S
ATOM  10873  C1*  C   A 528     180.444  98.985   9.448  1.00 47.35      A16S
ATOM  10874  N1   C   A 528     180.865  97.870   8.593  1.00 47.05      A16S
ATOM  10875  C6   C   A 528     181.224  98.063   7.285  1.00 47.05      A16S
ATOM  10876  C2   C   A 528     180.948  96.600   9.167  1.00 47.05      A16S
ATOM  10877  O2   C   A 528     180.536  96.441  10.323  1.00 47.05      A16S
ATOM  10878  N3   C   A 528     181.466  95.585   8.449  1.00 47.05      A16S
ATOM  10879  C4   C   A 528     181.869  95.795   7.195  1.00 47.05      A16S
ATOM  10880  N4   C   A 528     182.427  94.781   6.547  1.00 47.05      A16S
ATOM  10881  C5   C   A 528     181.729  97.061   6.557  1.00 47.05      A16S
ATOM  10882  C2*  C   A 528     181.677  99.575  10.121  1.00 47.35      A16S
ATOM  10883  O2*  C   A 528     181.285 100.007  11.406  1.00 47.35      A16S
ATOM  10884  C3*  C   A 528     181.995 100.763   9.224  1.00 47.35      A16S
ATOM  10885  O3*  C   A 528     182.752 101.708   9.974  1.00 47.35      A16S
ATOM  10886  P    G   A 529     184.370 101.680   9.902  1.00 46.73      A16S
ATOM  10887  O1P  G   A 529     184.838 102.669  10.916  1.00 55.39      A16S
ATOM  10888  O2P  G   A 529     184.798 101.835   8.482  1.00 55.39      A16S
ATOM  10889  O5*  G   A 529     184.800 100.215  10.381  1.00 46.73      A16S
ATOM  10890  C5*  G   A 529     184.806  99.893  11.770  1.00 46.73      A16S
ATOM  10891  C4*  G   A 529     185.433  98.544  12.025  1.00 46.73      A16S
ATOM  10892  O4*  G   A 529     184.636  97.482  11.448  1.00 46.73      A16S
ATOM  10893  C1*  G   A 529     185.462  96.355  11.200  1.00 46.73      A16S
ATOM  10894  N9   G   A 529     185.445  96.049   9.774  1.00 55.39      A16S
ATOM  10895  C4   G   A 529     185.697  94.830   9.200  1.00 55.39      A16S
ATOM  10896  N3   G   A 529     185.913  93.676   9.857  1.00 55.39      A16S
ATOM  10897  C2   G   A 529     186.147  92.679   9.029  1.00 55.39      A16S
ATOM  10898  N2   G   A 529     186.330  91.446   9.505  1.00 55.39      A16S
ATOM  10899  N1   G   A 529     186.203  92.812   7.669  1.00 55.39      A16S
ATOM  10900  C6   G   A 529     185.990  93.995   6.971  1.00 55.39      A16S
ATOM  10901  O6   G   A 529     186.073  94.011   5.730  1.00 55.39      A16S
ATOM  10902  C5   G   A 529     185.701  95.060   7.843  1.00 55.39      A16S
ATOM  10903  N7   G   A 529     185.402  96.381   7.567  1.00 55.39      A16S
ATOM  10904  C8   G   A 529     185.246  96.927   8.739  1.00 55.39      A16S
ATOM  10905  C2*  G   A 529     186.884  96.739  11.614  1.00 46.73      A16S
ATOM  10906  O2*  G   A 529     187.139  96.265  12.925  1.00 46.73      A16S
ATOM  10907  C3*  G   A 529     186.839  98.261  11.536  1.00 46.73      A16S
ATOM  10908  O3*  G   A 529     187.822  98.817  12.387  1.00 46.73      A16S
ATOM  10909  P    G   A 530     188.933  99.795  11.778  1.00 78.40      A16S
ATOM  10910  O1P  G   A 530     189.720 100.322  12.912  1.00 76.26      A16S
ATOM  10911  O2P  G   A 530     188.256 100.740  10.855  1.00 76.26      A16S
ATOM  10912  O5*  G   A 530     189.885  98.836  10.942  1.00 78.40      A16S
ATOM  10913  C5*  G   A 530     190.566  97.738  11.573  1.00 78.40      A16S
ATOM  10914  C4*  G   A 530     191.892  97.489  10.893  1.00 78.40      A16S
ATOM  10915  O4*  G   A 530     191.673  97.108   9.523  1.00 78.40      A16S
ATOM  10916  C1*  G   A 530     192.797  97.478   8.759  1.00 78.40      A16S
ATOM  10917  N9   G   A 530     192.366  97.928   7.442  1.00 76.26      A16S
ATOM  10918  C4   G   A 530     192.608  97.262   6.271  1.00 76.26      A16S
ATOM  10919  N3   G   A 530     193.315  96.125   6.148  1.00 76.26      A16S
ATOM  10920  C2   G   A 530     193.366  95.708   4.906  1.00 76.26      A16S
ATOM  10921  N2   G   A 530     194.051  94.603   4.613  1.00 76.26      A16S
ATOM  10922  N1   G   A 530     192.753  96.345   3.861  1.00 76.26      A16S
ATOM  10923  C6   G   A 530     192.007  97.513   3.964  1.00 76.26      A16S
ATOM  10924  O6   G   A 530     191.474  97.992   2.958  1.00 76.26      A16S
ATOM  10925  C5   G   A 530     191.967  97.986   5.295  1.00 76.26      A16S
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ATOM  10926  N7  G   A 530     191.358  99.111   5.836  1.00 76.26      A16S
ATOM  10927  C8  G   A 530     191.629  99.040   7.113  1.00 76.26      A16S
ATOM  10928  C2* G   A 530     193.702  98.383   9.591  1.00 78.40      A16S
ATOM  10929  O2* G   A 530     194.847  97.623   9.915  1.00 78.40      A16S
ATOM  10930  C3* G   A 530     192.838  98.680  10.818  1.00 78.40      A16S
ATOM  10931  O3* G   A 530     193.629  98.655  12.006  1.00 78.40      A16S
ATOM  10932  P   U   A 531     194.602  99.881  12.363  1.00 81.74      A16S
ATOM  10933  O1P U   A 531     194.178 101.101  11.623  1.00 74.52      A16S
ATOM  10934  O2P U   A 531     196.003  99.410  12.251  1.00 74.52      A16S
ATOM  10935  O5* U   A 531     194.309 100.090  13.908  1.00 81.74      A16S
ATOM  10936  C5* U   A 531     193.020 100.520  14.356  1.00 81.74      A16S
ATOM  10937  C4* U   A 531     193.130 101.111  15.735  1.00 81.74      A16S
ATOM  10938  O4* U   A 531     193.314 100.046  16.708  1.00 81.74      A16S
ATOM  10939  C1* U   A 531     194.459 100.315  17.480  1.00 81.74      A16S
ATOM  10940  N1  U   A 531     195.077  99.039  17.871  1.00 74.52      A16S
ATOM  10941  C6  U   A 531     195.865  98.314  17.002  1.00 74.52      A16S
ATOM  10942  C2  U   A 531     194.848  98.591  19.166  1.00 74.52      A16S
ATOM  10943  O2  U   A 531     194.133  99.185  19.965  1.00 74.52      A16S
ATOM  10944  N3  U   A 531     195.484  97.418  19.495  1.00 74.52      A16S
ATOM  10945  C4  U   A 531     196.300  96.655  18.682  1.00 74.52      A16S
ATOM  10946  O4  U   A 531     196.842  95.648  19.144  1.00 74.52      A16S
ATOM  10947  C5  U   A 531     196.468  97.169  17.354  1.00 74.52      A16S
ATOM  10948  C2* U   A 531     195.335 101.247  16.640  1.00 81.74      A16S
ATOM  10949  O2* U   A 531     196.212 101.999  17.459  1.00 81.74      A16S
ATOM  10950  C3* U   A 531     194.286 102.091  15.919  1.00 81.74      A16S
ATOM  10951  O3* U   A 531     193.868 103.153  16.752  1.00 81.74      A16S
ATOM  10952  P   A   A 532     193.421 104.546  16.105  1.00114.40      A16S
ATOM  10953  O1P A   A 532     192.713 104.253  14.832  1.00200.96      A16S
ATOM  10954  O2P A   A 532     194.596 105.453  16.102  1.00200.96      A16S
ATOM  10955  O5* A   A 532     192.354 105.101  17.150  1.00114.40      A16S
ATOM  10956  C5* A   A 532     192.437 104.715  18.536  1.00114.40      A16S
ATOM  10957  C4* A   A 532     191.130 104.964  19.262  1.00114.40      A16S
ATOM  10958  O4* A   A 532     190.990 106.352  19.639  1.00114.40      A16S
ATOM  10959  C1* A   A 532     189.632 106.590  19.946  1.00114.40      A16S
ATOM  10960  N9  A   A 532     189.244 107.930  19.496  1.00200.96      A16S
ATOM  10961  C4  A   A 532     187.961 108.434  19.485  1.00200.96      A16S
ATOM  10962  N3  A   A 532     186.831 107.805  19.858  1.00200.96      A16S
ATOM  10963  C2  A   A 532     185.775 108.606  19.717  1.00200.96      A16S
ATOM  10964  N1  A   A 532     185.722 109.869  19.278  1.00200.96      A16S
ATOM  10965  C6  A   A 532     186.873 110.473  18.908  1.00200.96      A16S
ATOM  10966  N6  A   A 532     186.818 111.730  18.465  1.00200.96      A16S
ATOM  10967  C5  A   A 532     188.069 109.730  19.013  1.00200.96      A16S
ATOM  10968  N7  A   A 532     189.394 110.040  18.728  1.00200.96      A16S
ATOM  10969  C8  A   A 532     190.048 108.942  19.028  1.00200.96      A16S
ATOM  10970  C2* A   A 532     188.797 105.420  19.404  1.00114.40      A16S
ATOM  10971  O2* A   A 532     188.298 104.684  20.504  1.00114.40      A16S
ATOM  10972  C3* A   A 532     189.814 104.627  18.576  1.00114.40      A16S
ATOM  10973  O3* A   A 532     189.590 103.220  18.677  1.00114.40      A16S
ATOM  10974  P   A   A 533     188.164 102.577  18.281  1.00 66.30      A16S
ATOM  10975  O1P A   A 533     187.266 102.653  19.467  1.00 51.99      A16S
ATOM  10976  O2P A   A 533     188.487 101.262  17.704  1.00 51.99      A16S
ATOM  10977  O5* A   A 533     187.583 103.485  17.106  1.00 66.30      A16S
ATOM  10978  C5* A   A 533     186.436 104.334  17.319  1.00 66.30      A16S
ATOM  10979  C4* A   A 533     185.186 103.738  16.695  1.00 66.30      A16S
ATOM  10980  O4* A   A 533     185.474 102.472  16.054  1.00 66.30      A16S
ATOM  10981  C1* A   A 533     184.325 101.647  16.093  1.00 66.30      A16S
ATOM  10982  N9  A   A 533     184.723 100.245  16.289  1.00 51.99      A16S
ATOM  10983  C4  A   A 533     184.269  99.164  15.560  1.00 51.99      A16S
ATOM  10984  N3  A   A 533     183.354  99.164  14.579  1.00 51.99      A16S
ATOM  10985  C2  A   A 533     183.185  97.937  14.088  1.00 51.99      A16S
ATOM  10986  N1  A   A 533     183.773  96.795  14.439  1.00 51.99      A16S
ATOM  10987  C6  A   A 533     184.677  96.817  15.432  1.00 51.99      A16S
ATOM  10988  N6  A   A 533     185.238  95.662  15.792  1.00 51.99      A16S
ATOM  10989  C5  A   A 533     184.961  98.065  16.034  1.00 51.99      A16S
ATOM  10990  N7  A   A 533     185.821  98.436  17.055  1.00 51.99      A16S
ATOM  10991  C8  A   A 533     185.633  99.732  17.177  1.00 51.99      A16S
ATOM  10992  C2* A   A 533     183.288 102.280  17.029  1.00 66.30      A16S
ATOM  10993  O2* A   A 533     182.206 102.703  16.233  1.00 66.30      A16S
ATOM  10994  C3* A   A 533     184.084 103.412  17.689  1.00 66.30      A16S
ATOM  10995  O3* A   A 533     183.399 104.615  18.130  1.00 66.30      A16S
ATOM  10996  P   U   A 534     182.281 105.349  17.212  1.00 61.77      A16S
ATOM  10997  O1P U   A 534     182.534 105.076  15.771  1.00 82.78      A16S
ATOM  10998  O2P U   A 534     182.207 106.757  17.677  1.00 82.78      A16S
ATOM  10999  O5* U   A 534     180.908 104.670  17.647  1.00 61.77      A16S
ATOM  11000  C5* U   A 534     180.688 104.317  19.018  1.00 61.77      A16S
ATOM  11001  C4* U   A 534     179.217 104.298  19.344  1.00 61.77      A16S
ATOM  11002  O4* U   A 534     178.655 105.629  19.309  1.00 61.77      A16S
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ATOM  11003  C1* U   A 534     177.261 105.530  19.101  1.00 61.77      A16S
ATOM  11004  N1  U   A 534     176.855 106.453  18.035  1.00 82.78      A16S
ATOM  11005  C6  U   A 534     177.761 107.004  17.157  1.00 82.78      A16S
ATOM  11006  C2  U   A 534     175.506 106.736  17.941  1.00 82.78      A16S
ATOM  11007  O2  U   A 534     174.674 106.268  18.707  1.00 82.78      A16S
ATOM  11008  N3  U   A 534     175.162 107.580  16.918  1.00 82.78      A16S
ATOM  11009  C4  U   A 534     176.010 108.154  15.997  1.00 82.78      A16S
ATOM  11010  O4  U   A 534     175.536 108.858  15.103  1.00 82.78      A16S
ATOM  11011  C5  U   A 534     177.395 107.821  16.166  1.00 82.78      A16S
ATOM  11012  C2* U   A 534     176.935 104.076  18.763  1.00 61.77      A16S
ATOM  11013  O2* U   A 534     176.356 103.463  19.895  1.00 61.77      A16S
ATOM  11014  C3* U   A 534     178.311 103.513  18.421  1.00 61.77      A16S
ATOM  11015  O3* U   A 534     178.386 102.137  18.718  1.00 61.77      A16S
ATOM  11016  P   A   A 535     179.136 101.152  17.700  1.00 58.40      A16S
ATOM  11017  O1P A   A 535     179.089  99.818  18.366  1.00 39.88      A16S
ATOM  11018  O2P A   A 535     180.431 101.728  17.313  1.00 39.88      A16S
ATOM  11019  O5* A   A 535     178.195 101.127  16.420  1.00 58.40      A16S
ATOM  11020  C5* A   A 535     176.919 100.480  16.486  1.00 58.40      A16S
ATOM  11021  C4* A   A 535     176.730  99.565  15.306  1.00 58.40      A16S
ATOM  11022  O4* A   A 535     176.460 100.335  14.113  1.00 58.40      A16S
ATOM  11023  C1* A   A 535     177.318  99.915  13.086  1.00 58.40      A16S
ATOM  11024  N9  A   A 535     177.580 101.054  12.217  1.00 39.88      A16S
ATOM  11025  C4  A   A 535     177.348 101.064  10.872  1.00 39.88      A16S
ATOM  11026  N3  A   A 535     176.909 100.043  10.123  1.00 39.88      A16S
ATOM  11027  C2  A   A 535     176.758 100.427   8.875  1.00 39.88      A16S
ATOM  11028  N1  A   A 535     176.977 101.626   8.330  1.00 39.88      A16S
ATOM  11029  C6  A   A 535     177.423 102.625   9.112  1.00 39.88      A16S
ATOM  11030  N6  A   A 535     177.647 103.816   8.565  1.00 39.88      A16S
ATOM  11031  C5  A   A 535     177.626 102.346  10.451  1.00 39.88      A16S
ATOM  11032  N7  A   A 535     178.067 103.125  11.503  1.00 39.88      A16S
ATOM  11033  C8  A   A 535     178.031 102.308  12.527  1.00 39.88      A16S
ATOM  11034  C2* A   A 535     178.526  99.283  13.761  1.00 58.40      A16S
ATOM  11035  O2* A   A 535     179.100  98.343  12.877  1.00 58.40      A16S
ATOM  11036  C3* A   A 535     177.876  98.625  14.973  1.00 58.40      A16S
ATOM  11037  O3* A   A 535     177.294  97.395  14.595  1.00 58.40      A16S
ATOM  11038  P   C   A 536     176.844  96.363  15.730  1.00 34.22      A16S
ATOM  11039  O1P C   A 536     175.575  95.711  15.322  1.00 55.75      A16S
ATOM  11040  O2P C   A 536     176.913  97.088  17.025  1.00 55.75      A16S
ATOM  11041  O5* C   A 536     177.983  95.258  15.748  1.00 34.22      A16S
ATOM  11042  C5* C   A 536     177.921  94.115  14.887  1.00 34.22      A16S
ATOM  11043  C4* C   A 536     179.159  93.292  15.073  1.00 34.22      A16S
ATOM  11044  O4* C   A 536     180.299  94.131  14.788  1.00 34.22      A16S
ATOM  11045  C1* C   A 536     181.320  93.887  15.730  1.00 34.22      A16S
ATOM  11046  N1  C   A 536     181.639  95.164  16.394  1.00 55.75      A16S
ATOM  11047  C6  C   A 536     180.993  96.311  16.033  1.00 55.75      A16S
ATOM  11048  C2  C   A 536     182.619  95.195  17.382  1.00 55.75      A16S
ATOM  11049  O2  C   A 536     183.187  94.149  17.690  1.00 55.75      A16S
ATOM  11050  N3  C   A 536     182.928  96.368  17.970  1.00 55.75      A16S
ATOM  11051  C4  C   A 536     182.302  97.484  17.597  1.00 55.75      A16S
ATOM  11052  N4  C   A 536     182.651  98.632  18.187  1.00 55.75      A16S
ATOM  11053  C5  C   A 536     181.294  97.480  16.599  1.00 55.75      A16S
ATOM  11054  C2* C   A 536     180.864  92.742  16.640  1.00 34.22      A16S
ATOM  11055  O2* C   A 536     181.388  91.532  16.127  1.00 34.22      A16S
ATOM  11056  C3* C   A 536     179.348  92.809  16.500  1.00 34.22      A16S
ATOM  11057  O3* C   A 536     178.766  91.517  16.616  1.00 34.22      A16S
ATOM  11058  P   G   A 537     177.395  91.320  17.411  1.00 53.64      A16S
ATOM  11059  O1P G   A 537     176.758  90.128  16.822  1.00 62.25      A16S
ATOM  11060  O2P G   A 537     176.657  92.596  17.429  1.00 62.25      A16S
ATOM  11061  O5* G   A 537     177.880  90.920  18.872  1.00 53.64      A16S
ATOM  11062  C5* G   A 537     178.439  89.602  19.114  1.00 53.64      A16S
ATOM  11063  C4* G   A 537     179.345  89.594  20.334  1.00 53.64      A16S
ATOM  11064  O4* G   A 537     180.556  90.357  20.090  1.00 53.64      A16S
ATOM  11065  C1* G   A 537     180.971  90.998  21.287  1.00 53.64      A16S
ATOM  11066  N9  G   A 537     180.928  92.438  21.067  1.00 62.25      A16S
ATOM  11067  C4  G   A 537     181.527  93.416  21.824  1.00 62.25      A16S
ATOM  11068  N3  G   A 537     182.282  93.222  22.919  1.00 62.25      A16S
ATOM  11069  C2  G   A 537     182.740  94.362  23.408  1.00 62.25      A16S
ATOM  11070  N2  G   A 537     183.538  94.348  24.482  1.00 62.25      A16S
ATOM  11071  N1  G   A 537     182.459  95.595  22.875  1.00 62.25      A16S
ATOM  11072  C6  G   A 537     181.671  95.814  21.754  1.00 62.25      A16S
ATOM  11073  O6  G   A 537     181.463  96.968  21.356  1.00 62.25      A16S
ATOM  11074  C5  G   A 537     181.197  94.603  21.211  1.00 62.25      A16S
ATOM  11075  N7  G   A 537     180.409  94.377  20.098  1.00 62.25      A16S
ATOM  11076  C8  G   A 537     180.276  93.082  20.053  1.00 62.25      A16S
ATOM  11077  C2* G   A 537     180.015  90.557  22.389  1.00 53.64      A16S
ATOM  11078  O2* G   A 537     180.543  89.410  23.025  1.00 53.64      A16S
ATOM  11079  C3* G   A 537     178.771  90.213  21.588  1.00 53.64      A16S
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ATOM  11080  O3* G   A 537     177.896  89.346  22.277  1.00 53.64       A16S
ATOM  11081  P   G   A 538     176.673  89.982  23.087  1.00 62.08       A16S
ATOM  11082  O1P G   A 538     175.744  88.896  23.514  1.00 56.55       A16S
ATOM  11083  O2P G   A 538     176.173  91.091  22.233  1.00 56.55       A16S
ATOM  11084  O5* G   A 538     177.382  90.614  24.367  1.00 62.08       A16S
ATOM  11085  C5* G   A 538     178.187  89.789  25.237  1.00 62.08       A16S
ATOM  11086  C4* G   A 538     178.861  90.621  26.308  1.00 62.08       A16S
ATOM  11087  O4* G   A 538     179.908  91.442  25.736  1.00 62.08       A16S
ATOM  11088  C1* G   A 538     180.011  92.654  26.459  1.00 62.08       A16S
ATOM  11089  N9  G   A 538     179.742  93.752  25.538  1.00 56.55       A16S
ATOM  11090  C4  G   A 538     180.053  95.082  25.716  1.00 56.55       A16S
ATOM  11091  N3  G   A 538     180.682  95.617  26.779  1.00 56.55       A16S
ATOM  11092  C2  G   A 538     180.843  96.923  26.648  1.00 56.55       A16S
ATOM  11093  N2  G   A 538     181.465  97.613  27.601  1.00 56.55       A16S
ATOM  11094  N1  G   A 538     180.409  97.649  25.570  1.00 56.55       A16S
ATOM  11095  C6  G   A 538     179.750  97.121  24.468  1.00 56.55       A16S
ATOM  11096  O6  G   A 538     179.382  97.867  23.548  1.00 56.55       A16S
ATOM  11097  C5  G   A 538     179.586  95.720  24.585  1.00 56.55       A16S
ATOM  11098  N7  G   A 538     179.003  94.812  23.712  1.00 56.55       A16S
ATOM  11099  C8  G   A 538     179.119  93.662  24.316  1.00 56.55       A16S
ATOM  11100  C2* G   A 538     179.012  92.584  27.616  1.00 62.08       A16S
ATOM  11101  O2* G   A 538     179.690  92.068  28.742  1.00 62.08       A16S
ATOM  11102  C3* G   A 538     177.989  91.589  27.087  1.00 62.08       A16S
ATOM  11103  O3* G   A 538     177.318  90.912  28.140  1.00 62.08       A16S
ATOM  11104  P   A   A 539     175.962  91.522  28.746  1.00 56.42       A16S
ATOM  11105  O1P A   A 539     175.458  90.521  29.717  1.00 56.64       A16S
ATOM  11106  O2P A   A 539     175.085  91.979  27.649  1.00 56.64       A16S
ATOM  11107  O5* A   A 539     176.460  92.804  29.539  1.00 56.42       A16S
ATOM  11108  C5* A   A 539     177.359  92.662  30.647  1.00 56.42       A16S
ATOM  11109  C4* A   A 539     177.839  94.010  31.102  1.00 56.42       A16S
ATOM  11110  O4* A   A 539     178.618  94.626  30.051  1.00 56.42       A16S
ATOM  11111  C1* A   A 539     178.405  96.025  30.063  1.00 56.42       A16S
ATOM  11112  N9  A   A 539     177.919  96.435  28.748  1.00 56.64       A16S
ATOM  11113  C4  A   A 539     178.067  97.687  28.207  1.00 56.64       A16S
ATOM  11114  N3  A   A 539     178.664  98.749  28.770  1.00 56.64       A16S
ATOM  11115  C2  A   A 539     178.631  99.795  27.952  1.00 56.64       A16S
ATOM  11116  N1  A   A 539     178.113  99.892  26.725  1.00 56.64       A16S
ATOM  11117  C6  A   A 539     177.524  98.804  26.185  1.00 56.64       A16S
ATOM  11118  N6  A   A 539     177.021  98.901  24.955  1.00 56.64       A16S
ATOM  11119  C5  A   A 539     177.485  97.631  26.959  1.00 56.64       A16S
ATOM  11120  N7  A   A 539     176.965  96.368  26.718  1.00 56.64       A16S
ATOM  11121  C8  A   A 539     177.246  95.698  27.809  1.00 56.64       A16S
ATOM  11122  C2* A   A 539     177.420  96.349  31.189  1.00 56.42       A16S
ATOM  11123  O2* A   A 539     178.107  96.796  32.343  1.00 56.42       A16S
ATOM  11124  C3* A   A 539     176.737  95.008  31.395  1.00 56.42       A16S
ATOM  11125  O3* A   A 539     176.251  94.868  32.713  1.00 56.42       A16S
ATOM  11126  P   G   A 540     174.756  95.323  33.050  1.00 51.20       A16S
ATOM  11127  O1P G   A 540     174.491  94.787  34.415  1.00 59.95       A16S
ATOM  11128  O2P G   A 540     173.852  94.941  31.931  1.00 59.95       A16S
ATOM  11129  O5* G   A 540     174.846  96.914  33.082  1.00 51.20       A16S
ATOM  11130  C5* G   A 540     175.244  97.592  34.279  1.00 51.20       A16S
ATOM  11131  C4* G   A 540     175.294  99.078  34.053  1.00 51.20       A16S
ATOM  11132  O4* G   A 540     176.212  99.345  32.966  1.00 51.20       A16S
ATOM  11133  C1* G   A 540     175.749 100.451  32.207  1.00 51.20       A16S
ATOM  11134  N9  G   A 540     175.463  99.989  30.848  1.00 59.95       A16S
ATOM  11135  C4  G   A 540     175.289 100.776  29.735  1.00 59.95       A16S
ATOM  11136  N3  G   A 540     175.375 102.118  29.697  1.00 59.95       A16S
ATOM  11137  C2  G   A 540     175.141 102.591  28.488  1.00 59.95       A16S
ATOM  11138  N2  G   A 540     175.193 103.909  28.270  1.00 59.95       A16S
ATOM  11139  N1  G   A 540     174.841 101.809  27.401  1.00 59.95       A16S
ATOM  11140  C6  G   A 540     174.738 100.424  27.419  1.00 59.95       A16S
ATOM  11141  O6  G   A 540     174.440  99.813  26.385  1.00 59.95       A16S
ATOM  11142  C5  G   A 540     174.998  99.902  28.709  1.00 59.95       A16S
ATOM  11143  N7  G   A 540     175.009  98.589  29.159  1.00 59.95       A16S
ATOM  11144  C8  G   A 540     175.292  98.687  30.429  1.00 59.95       A16S
ATOM  11145  C2* G   A 540     174.504 100.991  32.914  1.00 51.20       A16S
ATOM  11146  O2* G   A 540     174.902 102.014  33.807  1.00 51.20       A16S
ATOM  11147  C3* G   A 540     173.999  99.751  33.638  1.00 51.20       A16S
ATOM  11148  O3* G   A 540     173.191 100.078  34.753  1.00 51.20       A16S
ATOM  11149  P   G   A 541     171.588 100.148  34.584  1.00 46.64       A16S
ATOM  11150  O1P G   A 541     171.021 100.675  35.847  1.00 70.45       A16S
ATOM  11151  O2P G   A 541     171.109  98.850  34.067  1.00 70.45       A16S
ATOM  11152  O5* G   A 541     171.352 101.251  33.464  1.00 46.64       A16S
ATOM  11153  C5* G   A 541     171.545 102.631  33.767  1.00 46.64       A16S
ATOM  11154  C4* G   A 541     171.501 103.461  32.511  1.00 46.64       A16S
ATOM  11155  O4* G   A 541     172.500 102.982  31.575  1.00 46.64       A16S
ATOM  11156  C1* G   A 541     172.046 103.186  30.251  1.00 46.64       A16S
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ATOM  11157  N9  G   A 541     171.922 101.891  29.591  1.00 70.45      A16S
ATOM  11158  C4  G   A 541     171.627 101.690  28.267  1.00 70.45      A16S
ATOM  11159  N3  G   A 541     171.428 102.656  27.351  1.00 70.45      A16S
ATOM  11160  C2  G   A 541     171.139 102.156  26.170  1.00 70.45      A16S
ATOM  11161  N2  G   A 541     170.900 102.976  25.145  1.00 70.45      A16S
ATOM  11162  N1  G   A 541     171.058 100.813  25.905  1.00 70.45      A16S
ATOM  11163  C6  G   A 541     171.262  99.800  26.832  1.00 70.45      A16S
ATOM  11164  O6  G   A 541     171.166  98.617  26.485  1.00 70.45      A16S
ATOM  11165  C5  G   A 541     171.567 100.324  28.108  1.00 70.45      A16S
ATOM  11166  N7  G   A 541     171.837  99.676  29.304  1.00 70.45      A16S
ATOM  11167  C8  G   A 541     172.045 100.644  30.155  1.00 70.45      A16S
ATOM  11168  C2* G   A 541     170.683 103.870  30.331  1.00 46.64      A16S
ATOM  11169  O2* G   A 541     170.865 105.269  30.190  1.00 46.64      A16S
ATOM  11170  C3* G   A 541     170.209 103.441  31.713  1.00 46.64      A16S
ATOM  11171  O3* G   A 541     169.234 104.322  32.246  1.00 46.64      A16S
ATOM  11172  P   G   A 542     167.677 104.026  31.989  1.00 55.22      A16S
ATOM  11173  O1P G   A 542     166.887 105.074  32.686  1.00 57.41      A16S
ATOM  11174  O2P G   A 542     167.412 102.592  32.283  1.00 57.41      A16S
ATOM  11175  O5* G   A 542     167.513 104.288  30.431  1.00 55.22      A16S
ATOM  11176  C5* G   A 542     167.691 105.607  29.910  1.00 55.22      A16S
ATOM  11177  C4* G   A 542     167.457 105.620  28.426  1.00 55.22      A16S
ATOM  11178  O4* G   A 542     168.421 104.752  27.782  1.00 55.22      A16S
ATOM  11179  C1* G   A 542     167.838 104.141  26.654  1.00 55.22      A16S
ATOM  11180  N9  G   A 542     167.846 102.699  26.869  1.00 57.41      A16S
ATOM  11181  C4  G   A 542     167.645 101.726  25.919  1.00 57.41      A16S
ATOM  11182  N3  G   A 542     167.398 101.936  24.612  1.00 57.41      A16S
ATOM  11183  C2  G   A 542     167.251 100.800  23.951  1.00 57.41      A16S
ATOM  11184  N2  G   A 542     167.007 100.829  22.637  1.00 57.41      A16S
ATOM  11185  N1  G   A 542     167.336  99.558  24.528  1.00 57.41      A16S
ATOM  11186  C6  G   A 542     167.595  99.321  25.869  1.00 57.41      A16S
ATOM  11187  O6  G   A 542     167.665  98.164  26.283  1.00 57.41      A16S
ATOM  11188  C5  G   A 542     167.753 100.529  26.590  1.00 57.41      A16S
ATOM  11189  N7  G   A 542     168.016 100.743  27.933  1.00 57.41      A16S
ATOM  11190  C8  G   A 542     168.059 102.041  28.053  1.00 57.41      A16S
ATOM  11191  C2* G   A 542     166.431 104.716  26.507  1.00 55.22      A16S
ATOM  11192  O2* G   A 542     166.527 105.845  25.661  1.00 55.22      A16S
ATOM  11193  C3* G   A 542     166.110 105.115  27.943  1.00 55.22      A16S
ATOM  11194  O3* G   A 542     165.099 106.123  28.034  1.00 55.22      A16S
ATOM  11195  P   C   A 543     163.549 105.696  28.017  1.00 51.48      A16S
ATOM  11196  O1P C   A 543     162.708 106.905  28.200  1.00 46.48      A16S
ATOM  11197  O2P C   A 543     163.360 104.539  28.911  1.00 46.48      A16S
ATOM  11198  O5* C   A 543     163.331 105.197  26.525  1.00 51.48      A16S
ATOM  11199  C5* C   A 543     163.483 106.124  25.439  1.00 51.48      A16S
ATOM  11200  C4* C   A 543     163.233 105.449  24.117  1.00 51.48      A16S
ATOM  11201  O4* C   A 543     164.297 104.506  23.829  1.00 51.48      A16S
ATOM  11202  C1* C   A 543     163.776 103.442  23.049  1.00 51.48      A16S
ATOM  11203  N1  C   A 543     163.909 102.188  23.803  1.00 46.48      A16S
ATOM  11204  C6  C   A 543     164.367 102.179  25.089  1.00 46.48      A16S
ATOM  11205  C2  C   A 543     163.546 100.989  23.173  1.00 46.48      A16S
ATOM  11206  O2  C   A 543     163.122 101.025  22.010  1.00 46.48      A16S
ATOM  11207  N3  C   A 543     163.657  99.833  23.847  1.00 46.48      A16S
ATOM  11208  C4  C   A 543     164.100  99.837  25.101  1.00 46.48      A16S
ATOM  11209  N4  C   A 543     164.183  98.672  25.727  1.00 46.48      A16S
ATOM  11210  C5  C   A 543     164.474 101.038  25.768  1.00 46.48      A16S
ATOM  11211  C2* C   A 543     162.302 103.739  22.788  1.00 51.48      A16S
ATOM  11212  O2* C   A 543     162.206 104.428  21.556  1.00 51.48      A16S
ATOM  11213  C3* C   A 543     161.963 104.625  23.976  1.00 51.48      A16S
ATOM  11214  O3* C   A 543     160.803 105.403  23.745  1.00 51.48      A16S
ATOM  11215  P   G   A 544     159.369 104.786  24.113  1.00 46.40      A16S
ATOM  11216  O1P G   A 544     158.332 105.720  23.633  1.00 44.98      A16S
ATOM  11217  O2P G   A 544     159.379 104.373  25.534  1.00 44.98      A16S
ATOM  11218  O5* G   A 544     159.300 103.451  23.248  1.00 46.40      A16S
ATOM  11219  C5* G   A 544     159.196 103.502  21.817  1.00 46.40      A16S
ATOM  11220  C4* G   A 544     158.942 102.122  21.255  1.00 46.40      A16S
ATOM  11221  O4* G   A 544     160.072 101.263  21.550  1.00 46.40      A16S
ATOM  11222  C1* G   A 544     159.622  99.925  21.695  1.00 46.40      A16S
ATOM  11223  N9  G   A 544     160.136  99.363  22.946  1.00 44.98      A16S
ATOM  11224  C4  G   A 544     160.365  98.029  23.200  1.00 44.98      A16S
ATOM  11225  N3  G   A 544     160.149  97.009  22.344  1.00 44.98      A16S
ATOM  11226  C2  G   A 544     160.474  95.841  22.873  1.00 44.98      A16S
ATOM  11227  N2  G   A 544     160.348  94.717  22.157  1.00 44.98      A16S
ATOM  11228  N1  G   A 544     160.956  95.686  24.139  1.00 44.98      A16S
ATOM  11229  C6  G   A 544     161.186  96.717  25.034  1.00 44.98      A16S
ATOM  11230  O6  G   A 544     161.630  96.460  26.150  1.00 44.98      A16S
ATOM  11231  C5  G   A 544     160.853  97.979  24.482  1.00 44.98      A16S
ATOM  11232  N7  G   A 544     160.931  99.249  25.030  1.00 44.98      A16S
ATOM  11233  C8  G   A 544     160.493 100.036  24.086  1.00 44.98      A16S
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ATOM  11234  C2* G   A 544     158.097  99.911  21.551  1.00 46.40      A16S
ATOM  11235  O2* G   A 544     157.757  99.470  20.249  1.00 46.40      A16S
ATOM  11236  C3* G   A 544     157.740 101.373  21.818  1.00 46.40      A16S
ATOM  11237  O3* G   A 544     156.517 101.760  21.195  1.00 46.40      A16S
ATOM  11238  P    C   A 545     155.143 101.652  22.017  1.00 51.29      A16S
ATOM  11239  O1P C   A 545     154.050 101.982  21.067  1.00 51.50      A16S
ATOM  11240  O2P C   A 545     155.278 102.430  23.271  1.00 51.50      A16S
ATOM  11241  O5* C   A 545     155.028 100.098  22.376  1.00 51.29      A16S
ATOM  11242  C5* C   A 545     154.566  99.172  21.374  1.00 51.29      A16S
ATOM  11243  C4* C   A 545     154.731  97.725  21.806  1.00 51.29      A16S
ATOM  11244  O4* C   A 545     156.119  97.424  22.099  1.00 51.29      A16S
ATOM  11245  C1* C   A 545     156.177  96.265  22.916  1.00 51.29      A16S
ATOM  11246  N1   C   A 545     156.912  96.562  24.155  1.00 51.50      A16S
ATOM  11247  C6   C   A 545     157.017  97.839  24.624  1.00 51.50      A16S
ATOM  11248  C2   C   A 545     157.478  95.502  24.868  1.00 51.50      A16S
ATOM  11249  O2   C   A 545     157.416  94.365  24.403  1.00 51.50      A16S
ATOM  11250  N3   C   A 545     158.082  95.743  26.042  1.00 51.50      A16S
ATOM  11251  C4   C   A 545     158.159  96.988  26.504  1.00 51.50      A16S
ATOM  11252  N4   C   A 545     158.761  97.179  27.680  1.00 51.50      A16S
ATOM  11253  C5   C   A 545     157.623  98.095  25.785  1.00 51.50      A16S
ATOM  11254  C2* C   A 545     154.740  95.865  23.242  1.00 51.29      A16S
ATOM  11255  O2* C   A 545     154.317  94.875  22.325  1.00 51.29      A16S
ATOM  11256  C3* C   A 545     153.988  97.165  23.009  1.00 51.29      A16S
ATOM  11257  O3* C   A 545     152.633  96.846  22.748  1.00 51.29      A16S
ATOM  11258  P    G   A 546     151.616  96.640  23.980  1.00 46.08      A16S
ATOM  11259  O1P G   A 546     150.312  96.181  23.430  1.00 62.90      A16S
ATOM  11260  O2P G   A 546     151.673  97.856  24.818  1.00 62.90      A16S
ATOM  11261  O5* G   A 546     152.236  95.430  24.806  1.00 46.08      A16S
ATOM  11262  C5* G   A 546     152.196  94.104  24.266  1.00 46.08      A16S
ATOM  11263  C4* G   A 546     152.809  93.114  25.222  1.00 46.08      A16S
ATOM  11264  O4* G   A 546     154.167  93.505  25.514  1.00 46.08      A16S
ATOM  11265  C1* G   A 546     154.500  93.095  26.823  1.00 46.08      A16S
ATOM  11266  N9   G   A 546     155.016  94.248  27.557  1.00 62.90      A16S
ATOM  11267  C4   G   A 546     155.825  94.204  28.660  1.00 62.90      A16S
ATOM  11268  N3   G   A 546     156.300  93.089  29.243  1.00 62.90      A16S
ATOM  11269  C2   G   A 546     157.058  93.362  30.283  1.00 62.90      A16S
ATOM  11270  N2   G   A 546     157.633  92.367  30.959  1.00 62.90      A16S
ATOM  11271  N1   G   A 546     157.314  94.632  30.734  1.00 62.90      A16S
ATOM  11272  C6   G   A 546     156.822  95.799  30.156  1.00 62.90      A16S
ATOM  11273  O6   G   A 546     157.097  96.906  30.655  1.00 62.90      A16S
ATOM  11274  C5   G   A 546     156.026  95.516  29.020  1.00 62.90      A16S
ATOM  11275  N7   G   A 546     155.370  96.370  28.152  1.00 62.90      A16S
ATOM  11276  C8   G   A 546     154.787  95.575  27.299  1.00 62.90      A16S
ATOM  11277  C2* G   A 546     153.268  92.425  27.448  1.00 46.08      A16S
ATOM  11278  O2* G   A 546     153.399  91.023  27.352  1.00 46.08      A16S
ATOM  11279  C3* G   A 546     152.135  92.956  26.575  1.00 46.08      A16S
ATOM  11280  O3* G   A 546     151.052  92.025  26.453  1.00 46.08      A16S
ATOM  11281  P    A   A 547     150.045  91.773  27.686  1.00 43.43      A16S
ATOM  11282  O1P A   A 547     148.707  91.468  27.107  1.00 47.78      A16S
ATOM  11283  O2P A   A 547     150.183  92.893  28.652  1.00 47.78      A16S
ATOM  11284  O5* A   A 547     150.626  90.453  28.370  1.00 43.43      A16S
ATOM  11285  C5* A   A 547     149.981  89.173  28.196  1.00 43.43      A16S
ATOM  11286  C4* A   A 547     150.772  88.306  27.242  1.00 43.43      A16S
ATOM  11287  O4* A   A 547     152.139  88.147  27.701  1.00 43.43      A16S
ATOM  11288  C1* A   A 547     152.460  86.779  27.772  1.00 43.43      A16S
ATOM  11289  N9   A   A 547     153.397  86.586  28.869  1.00 47.78      A16S
ATOM  11290  C4   A   A 547     154.735  86.332  28.712  1.00 47.78      A16S
ATOM  11291  N3   A   A 547     155.402  86.181  27.557  1.00 47.78      A16S
ATOM  11292  C2   A   A 547     156.698  85.961  27.783  1.00 47.78      A16S
ATOM  11293  N1   A   A 547     157.350  85.885  28.942  1.00 47.78      A16S
ATOM  11294  C6   A   A 547     156.650  86.041  30.087  1.00 47.78      A16S
ATOM  11295  N6   A   A 547     157.309  85.970  31.244  1.00 47.78      A16S
ATOM  11296  C5   A   A 547     155.261  86.274  29.982  1.00 47.78      A16S
ATOM  11297  N7   A   A 547     154.267  86.468  30.930  1.00 47.78      A16S
ATOM  11298  C8   A   A 547     153.181  86.639  30.219  1.00 47.78      A16S
ATOM  11299  C2* A   A 547     151.135  86.048  27.918  1.00 43.43      A16S
ATOM  11300  O2* A   A 547     151.295  84.699  27.530  1.00 43.43      A16S
ATOM  11301  C3* A   A 547     150.227  86.901  27.027  1.00 43.43      A16S
ATOM  11302  O3* A   A 547     150.408  86.572  25.650  1.00 43.43      A16S
ATOM  11303  P    G   A 548     149.591  87.377  24.519  1.00 44.31      A16S
ATOM  11304  O1P G   A 548     148.221  87.686  25.012  1.00 40.51      A16S
ATOM  11305  O2P G   A 548     149.763  86.674  23.228  1.00 40.51      A16S
ATOM  11306  O5* G   A 548     150.348  88.766  24.432  1.00 44.31      A16S
ATOM  11307  C5* G   A 548     151.367  88.981  23.459  1.00 44.31      A16S
ATOM  11308  C4* G   A 548     152.677  89.252  24.142  1.00 44.31      A16S
ATOM  11309  O4* G   A 548     153.151  88.039  24.776  1.00 44.31      A16S
ATOM  11310  C1* G   A 548     154.561  87.931  24.613  1.00 44.31      A16S
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ATOM  11311  N9  G   A 548     154.817  86.724  23.837  1.00 40.51      A16S
ATOM  11312  C4  G   A 548     156.030  86.156  23.535  1.00 40.51      A16S
ATOM  11313  N3  G   A 548     157.242  86.620  23.897  1.00 40.51      A16S
ATOM  11314  C2  G   A 548     158.222  85.861  23.425  1.00 40.51      A16S
ATOM  11315  N2  G   A 548     159.496  86.185  23.658  1.00 40.51      A16S
ATOM  11316  N1  G   A 548     158.021  84.732  22.675  1.00 40.51      A16S
ATOM  11317  C6  G   A 548     156.776  84.245  22.282  1.00 40.51      A16S
ATOM  11318  O6  G   A 548     156.696  83.230  21.568  1.00 40.51      A16S
ATOM  11319  C5  G   A 548     155.730  85.047  22.776  1.00 40.51      A16S
ATOM  11320  N7  G   A 548     154.364  84.921  22.608  1.00 40.51      A16S
ATOM  11321  C8  G   A 548     153.864  85.933  23.254  1.00 40.51      A16S
ATOM  11322  C2* G   A 548     155.043  89.204  23.916  1.00 44.31      A16S
ATOM  11323  O2* G   A 548     155.459  90.139  24.886  1.00 44.31      A16S
ATOM  11324  C3* G   A 548     153.782  89.638  23.184  1.00 44.31      A16S
ATOM  11325  O3* G   A 548     153.707  91.019  22.892  1.00 44.31      A16S
ATOM  11326  P   C   A 549     153.633  91.489  21.361  1.00 39.93      A16S
ATOM  11327  O1P C   A 549     153.059  92.859  21.271  1.00 44.78      A16S
ATOM  11328  O2P C   A 549     153.015  90.374  20.573  1.00 44.78      A16S
ATOM  11329  O5* C   A 549     155.164  91.606  20.970  1.00 39.93      A16S
ATOM  11330  C5* C   A 549     156.068  92.256  21.848  1.00 39.93      A16S
ATOM  11331  C4* C   A 549     157.409  91.605  21.759  1.00 39.93      A16S
ATOM  11332  O4* C   A 549     157.258  90.201  22.034  1.00 39.93      A16S
ATOM  11333  C1* C   A 549     158.297  89.500  21.393  1.00 39.93      A16S
ATOM  11334  N1  C   A 549     157.760  88.288  20.776  1.00 44.78      A16S
ATOM  11335  C6  C   A 549     156.417  88.097  20.643  1.00 44.78      A16S
ATOM  11336  C2  C   A 549     158.652  87.335  20.325  1.00 44.78      A16S
ATOM  11337  O2  C   A 549     159.864  87.544  20.456  1.00 44.78      A16S
ATOM  11338  N3  C   A 549     158.184  86.212  19.756  1.00 44.78      A16S
ATOM  11339  C4  C   A 549     156.871  86.025  19.635  1.00 44.78      A16S
ATOM  11340  N4  C   A 549     156.448  84.886  19.081  1.00 44.78      A16S
ATOM  11341  C5  C   A 549     155.934  86.990  20.082  1.00 44.78      A16S
ATOM  11342  C2* C   A 549     158.983  90.447  20.406  1.00 39.93      A16S
ATOM  11343  O2* C   A 549     160.247  90.791  20.915  1.00 39.93      A16S
ATOM  11344  C3* C   A 549     158.034  91.633  20.383  1.00 39.93      A16S
ATOM  11345  O3* C   A 549     158.745  92.840  20.213  1.00 39.93      A16S
ATOM  11346  P   G   A 550     159.054  93.370  18.737  1.00 49.85      A16S
ATOM  11347  O1P G   A 550     159.511  94.787  18.824  1.00 34.52      A16S
ATOM  11348  O2P G   A 550     157.873  93.024  17.889  1.00 34.52      A16S
ATOM  11349  O5* G   A 550     160.277  92.462  18.280  1.00 49.85      A16S
ATOM  11350  C5* G   A 550     160.291  91.852  16.981  1.00 49.85      A16S
ATOM  11351  C4* G   A 550     161.385  90.825  16.898  1.00 49.85      A16S
ATOM  11352  O4* G   A 550     161.074  89.706  17.765  1.00 49.85      A16S
ATOM  11353  C1* G   A 550     161.477  88.494  17.149  1.00 49.85      A16S
ATOM  11354  N9  G   A 550     160.288  87.677  16.916  1.00 34.52      A16S
ATOM  11355  C4  G   A 550     160.265  86.367  16.500  1.00 34.52      A16S
ATOM  11356  N3  G   A 550     161.343  85.591  16.251  1.00 34.52      A16S
ATOM  11357  C2  G   A 550     160.991  84.376  15.865  1.00 34.52      A16S
ATOM  11358  N2  G   A 550     161.922  83.479  15.584  1.00 34.52      A16S
ATOM  11359  N1  G   A 550     159.694  83.958  15.728  1.00 34.52      A16S
ATOM  11360  C6  G   A 550     158.573  84.744  15.974  1.00 34.52      A16S
ATOM  11361  O6  G   A 550     157.447  84.278  15.811  1.00 34.52      A16S
ATOM  11362  C5  G   A 550     158.928  86.041  16.395  1.00 34.52      A16S
ATOM  11363  N7  G   A 550     158.128  87.114  16.751  1.00 34.52      A16S
ATOM  11364  C8  G   A 550     158.973  88.061  17.053  1.00 34.52      A16S
ATOM  11365  C2* G   A 550     162.170  88.864  15.841  1.00 49.85      A16S
ATOM  11366  O2* G   A 550     163.555  89.000  16.077  1.00 49.85      A16S
ATOM  11367  C3* G   A 550     161.524  90.201  15.530  1.00 49.85      A16S
ATOM  11368  O3* G   A 550     162.315  91.005  14.690  1.00 49.85      A16S
ATOM  11369  P   U   A 551     162.100  90.922  13.107  1.00 37.30      A16S
ATOM  11370  O1P U   A 551     163.118  91.807  12.496  1.00 41.43      A16S
ATOM  11371  O2P U   A 551     160.668  91.121  12.776  1.00 41.43      A16S
ATOM  11372  O5* U   A 551     162.477  89.410  12.776  1.00 37.30      A16S
ATOM  11373  C5* U   A 551     163.826  88.935  12.931  1.00 37.30      A16S
ATOM  11374  C4* U   A 551     163.936  87.489  12.493  1.00 37.30      A16S
ATOM  11375  O4* U   A 551     163.145  86.641  13.360  1.00 37.30      A16S
ATOM  11376  C1* U   A 551     162.595  85.570  12.616  1.00 37.30      A16S
ATOM  11377  N1  U   A 551     161.131  85.655  12.693  1.00 41.43      A16S
ATOM  11378  C6  U   A 551     160.505  86.800  13.122  1.00 41.43      A16S
ATOM  11379  C2  U   A 551     160.401  84.548  12.321  1.00 41.43      A16S
ATOM  11380  O2  U   A 551     160.913  83.517  11.928  1.00 41.43      A16S
ATOM  11381  N3  U   A 551     159.046  84.696  12.418  1.00 41.43      A16S
ATOM  11382  C4  U   A 551     158.366  85.810  12.832  1.00 41.43      A16S
ATOM  11383  O4  U   A 551     157.148  85.807  12.807  1.00 41.43      A16S
ATOM  11384  C5  U   A 551     159.184  86.909  13.202  1.00 41.43      A16S
ATOM  11385  C2* U   A 551     163.111  85.688  11.187  1.00 37.30      A16S
ATOM  11386  O2* U   A 551     164.267  84.895  11.086  1.00 37.30      A16S
ATOM  11387  C3* U   A 551     163.437  87.171  11.098  1.00 37.30      A16S
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ATOM  11388  O3*  U   A 551     164.430  87.434  10.128  1.00 37.30      A16S
ATOM  11389  P    U   A 552     163.983  87.803   8.638  1.00 32.94      A16S
ATOM  11390  O1P  U   A 552     165.236  88.118   7.920  1.00 37.58      A16S
ATOM  11391  O2P  U   A 552     162.890  88.804   8.673  1.00 37.58      A16S
ATOM  11392  O5*  U   A 552     163.395  86.434   8.068  1.00 32.94      A16S
ATOM  11393  C5*  U   A 552     164.270  85.321   7.794  1.00 32.94      A16S
ATOM  11394  C4*  U   A 552     163.480  84.115   7.357  1.00 32.94      A16S
ATOM  11395  O4*  U   A 552     162.658  83.627   8.446  1.00 32.94      A16S
ATOM  11396  C1*  U   A 552     161.448  83.101   7.935  1.00 32.94      A16S
ATOM  11397  N1   U   A 552     160.323  83.871   8.484  1.00 37.58      A16S
ATOM  11398  C6   U   A 552     160.477  85.154   8.940  1.00 37.58      A16S
ATOM  11399  C2   U   A 552     159.082  83.256   8.507  1.00 37.58      A16S
ATOM  11400  O2   U   A 552     158.906  82.105   8.135  1.00 37.58      A16S
ATOM  11401  N3   U   A 552     158.056  84.031   8.986  1.00 37.58      A16S
ATOM  11402  C4   U   A 552     158.143  85.312   9.443  1.00 37.58      A16S
ATOM  11403  O4   U   A 552     157.136  85.867   9.859  1.00 37.58      A16S
ATOM  11404  C5   U   A 552     159.458  85.874   9.405  1.00 37.58      A16S
ATOM  11405  C2*  U   A 552     161.500  83.220   6.415  1.00 32.94      A16S
ATOM  11406  O2*  U   A 552     161.934  81.992   5.872  1.00 32.94      A16S
ATOM  11407  C3*  U   A 552     162.499  84.351   6.234  1.00 32.94      A16S
ATOM  11408  O3*  U   A 552     163.118  84.312   4.977  1.00 32.94      A16S
ATOM  11409  P    A   A 553     162.463  85.123   3.774  1.00 29.41      A16S
ATOM  11410  O1P  A   A 553     163.364  85.008   2.587  1.00 39.83      A16S
ATOM  11411  O2P  A   A 553     162.124  86.472   4.307  1.00 39.83      A16S
ATOM  11412  O5*  A   A 553     161.135  84.305   3.488  1.00 29.41      A16S
ATOM  11413  C5*  A   A 553     161.224  82.996   2.963  1.00 29.41      A16S
ATOM  11414  C4*  A   A 553     159.857  82.424   2.771  1.00 29.41      A16S
ATOM  11415  O4*  A   A 553     159.233  82.236   4.059  1.00 29.41      A16S
ATOM  11416  C1*  A   A 553     157.844  82.450   3.945  1.00 29.41      A16S
ATOM  11417  N9   A   A 553     157.478  83.532   4.846  1.00 39.83      A16S
ATOM  11418  C4   A   A 553     156.244  83.700   5.409  1.00 39.83      A16S
ATOM  11419  N3   A   A 553     155.177  82.908   5.258  1.00 39.83      A16S
ATOM  11420  C2   A   A 553     154.149  83.390   5.942  1.00 39.83      A16S
ATOM  11421  N1   A   A 553     154.071  84.495   6.691  1.00 39.83      A16S
ATOM  11422  C6   A   A 553     155.157  85.274   6.799  1.00 39.83      A16S
ATOM  11423  N6   A   A 553     155.063  86.393   7.501  1.00 39.83      A16S
ATOM  11424  C5   A   A 553     156.319  84.863   6.144  1.00 39.83      A16S
ATOM  11425  N7   A   A 553     157.591  85.410   6.066  1.00 39.83      A16S
ATOM  11426  C8   A   A 553     158.240  84.582   5.286  1.00 39.83      A16S
ATOM  11427  C2*  A   A 553     157.537  82.793   2.489  1.00 29.41      A16S
ATOM  11428  O2*  A   A 553     157.104  81.620   1.846  1.00 29.41      A16S
ATOM  11429  C3*  A   A 553     158.887  83.286   1.993  1.00 29.41      A16S
ATOM  11430  O3*  A   A 553     159.060  83.083   0.604  1.00 29.41      A16S
ATOM  11431  P    C   A 554     158.767  84.287  -0.411  1.00 32.25      A16S
ATOM  11432  O1P  C   A 554     159.148  83.809  -1.754  1.00 46.58      A16S
ATOM  11433  O2P  C   A 554     159.364  85.540   0.106  1.00 46.58      A16S
ATOM  11434  O5*  C   A 554     157.188  84.401  -0.352  1.00 32.25      A16S
ATOM  11435  C5*  C   A 554     156.387  83.335  -0.864  1.00 32.25      A16S
ATOM  11436  C4*  C   A 554     154.931  83.580  -0.577  1.00 32.25      A16S
ATOM  11437  O4*  C   A 554     154.683  83.465   0.847  1.00 32.25      A16S
ATOM  11438  C1*  C   A 554     153.642  84.343   1.223  1.00 32.25      A16S
ATOM  11439  N1   C   A 554     154.165  85.305   2.204  1.00 46.58      A16S
ATOM  11440  C6   C   A 554     155.449  85.756   2.134  1.00 46.58      A16S
ATOM  11441  C2   C   A 554     153.317  85.763   3.201  1.00 46.58      A16S
ATOM  11442  O2   C   A 554     152.165  85.316   3.258  1.00 46.58      A16S
ATOM  11443  N3   C   A 554     153.766  86.672   4.083  1.00 46.58      A16S
ATOM  11444  C4   C   A 554     155.014  87.112   4.003  1.00 46.58      A16S
ATOM  11445  N4   C   A 554     155.414  88.011   4.897  1.00 46.58      A16S
ATOM  11446  C5   C   A 554     155.909  86.651   3.006  1.00 46.58      A16S
ATOM  11447  C2*  C   A 554     153.155  85.036  -0.044  1.00 32.25      A16S
ATOM  11448  O2*  C   A 554     152.088  84.280  -0.567  1.00 32.25      A16S
ATOM  11449  C3*  C   A 554     154.387  84.948  -0.931  1.00 32.25      A16S
ATOM  11450  O3*  C   A 554     154.078  85.090  -2.302  1.00 32.25      A16S
ATOM  11451  P    C   A 555     154.026  86.565  -2.931  1.00 34.50      A16S
ATOM  11452  O1P  C   A 555     154.037  86.459  -4.413  1.00 34.69      A16S
ATOM  11453  O2P  C   A 555     155.051  87.385  -2.249  1.00 34.69      A16S
ATOM  11454  O5*  C   A 555     152.602  87.103  -2.473  1.00 34.50      A16S
ATOM  11455  C5*  C   A 555     151.404  86.520  -2.992  1.00 34.50      A16S
ATOM  11456  C4*  C   A 555     150.209  87.307  -2.536  1.00 34.50      A16S
ATOM  11457  O4*  C   A 555     150.027  87.112  -1.118  1.00 34.50      A16S
ATOM  11458  C1*  C   A 555     149.592  88.317  -0.518  1.00 34.50      A16S
ATOM  11459  N1   C   A 555     150.616  88.754   0.458  1.00 34.69      A16S
ATOM  11460  C6   C   A 555     151.896  88.273   0.393  1.00 34.69      A16S
ATOM  11461  C2   C   A 555     150.266  89.690   1.433  1.00 34.69      A16S
ATOM  11462  O2   C   A 555     149.093  90.038   1.528  1.00 34.69      A16S
ATOM  11463  N3   C   A 555     151.216  90.172   2.256  1.00 34.69      A16S
ATOM  11464  C4   C   A 555     152.468  89.716   2.163  1.00 34.69      A16S
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ATOM  11465  N4  C   A 555     153.387  90.222   2.987  1.00 34.69      A16S
ATOM  11466  C5  C   A 555     152.839  88.719   1.218  1.00 34.69      A16S
ATOM  11467  C2* C   A 555     149.378  89.327  -1.646  1.00 34.50      A16S
ATOM  11468  O2* C   A 555     148.046  89.213  -2.094  1.00 34.50      A16S
ATOM  11469  C3* C   A 555     150.321  88.805  -2.709  1.00 34.50      A16S
ATOM  11470  O3* C   A 555     149.901  89.195  -3.996  1.00 34.50      A16S
ATOM  11471  P   C   A 556     150.582  90.468  -4.692  1.00 29.15      A16S
ATOM  11472  O1P C   A 556     150.229  90.400  -6.134  1.00 35.43      A16S
ATOM  11473  O2P C   A 556     152.016  90.507  -4.275  1.00 35.43      A16S
ATOM  11474  O5* C   A 556     149.830  91.712  -4.042  1.00 29.15      A16S
ATOM  11475  C5* C   A 556     148.426  91.909  -4.288  1.00 29.15      A16S
ATOM  11476  C4* C   A 556     147.877  92.993  -3.400  1.00 29.15      A16S
ATOM  11477  O4* C   A 556     147.878  92.548  -2.022  1.00 29.15      A16S
ATOM  11478  C1* C   A 556     148.095  93.655  -1.171  1.00 29.15      A16S
ATOM  11479  N1  C   A 556     149.344  93.459  -0.448  1.00 35.43      A16S
ATOM  11480  C6  C   A 556     150.297  92.587  -0.895  1.00 35.43      A16S
ATOM  11481  C2  C   A 556     149.557  94.211   0.690  1.00 35.43      A16S
ATOM  11482  O2  C   A 556     148.641  94.936   1.101  1.00 35.43      A16S
ATOM  11483  N3  C   A 556     150.746  94.127   1.326  1.00 35.43      A16S
ATOM  11484  C4  C   A 556     151.689  93.299   0.868  1.00 35.43      A16S
ATOM  11485  N4  C   A 556     152.864  93.263   1.512  1.00 35.43      A16S
ATOM  11486  C5  C   A 556     151.472  92.476  -0.273  1.00 35.43      A16S
ATOM  11487  C2* C   A 556     148.223  94.896  -2.043  1.00 29.15      A16S
ATOM  11488  O2* C   A 556     146.955  95.481  -2.118  1.00 29.15      A16S
ATOM  11489  C3* C   A 556     148.648  94.297  -3.371  1.00 29.15      A16S
ATOM  11490  O3* C   A 556     148.309  95.142  -4.445  1.00 29.15      A16S
ATOM  11491  P   G   A 557     149.390  96.200  -4.975  1.00 27.33      A16S
ATOM  11492  O1P G   A 557     148.799  96.925  -6.129  1.00 48.95      A16S
ATOM  11493  O2P G   A 557     150.676  95.481  -5.147  1.00 48.95      A16S
ATOM  11494  O5* G   A 557     149.582  97.191  -3.738  1.00 27.33      A16S
ATOM  11495  C5* G   A 557     148.453  97.874  -3.179  1.00 27.33      A16S
ATOM  11496  C4* G   A 557     148.870  98.742  -2.028  1.00 27.33      A16S
ATOM  11497  O4* G   A 557     149.387  97.920  -0.965  1.00 27.33      A16S
ATOM  11498  C1* G   A 557     150.376  98.634  -0.249  1.00 27.33      A16S
ATOM  11499  N9  G   A 557     151.550  97.774  -0.120  1.00 48.95      A16S
ATOM  11500  C4  G   A 557     152.592  97.912   0.772  1.00 48.95      A16S
ATOM  11501  N3  G   A 557     152.735  98.893   1.685  1.00 48.95      A16S
ATOM  11502  C2  G   A 557     153.834  98.741   2.404  1.00 48.95      A16S
ATOM  11503  N2  G   A 557     154.134  99.629   3.362  1.00 48.95      A16S
ATOM  11504  N1  G   A 557     154.717  97.714   2.237  1.00 48.95      A16S
ATOM  11505  C6  G   A 557     154.590  96.699   1.302  1.00 48.95      A16S
ATOM  11506  O6  G   A 557     155.453  95.818   1.228  1.00 48.95      A16S
ATOM  11507  C5  G   A 557     153.419  96.844   0.530  1.00 48.95      A16S
ATOM  11508  N7  G   A 557     152.919  96.055  -0.493  1.00 48.95      A16S
ATOM  11509  C8  G   A 557     151.817  96.646  -0.851  1.00 48.95      A16S
ATOM  11510  C2* G   A 557     150.577  99.985  -0.944  1.00 27.33      A16S
ATOM  11511  O2* G   A 557     149.860 100.955  -0.222  1.00 27.33      A16S
ATOM  11512  C3* G   A 557     149.969  99.732  -2.317  1.00 27.33      A16S
ATOM  11513  O3* G   A 557     149.393 100.887  -2.874  1.00 27.33      A16S
ATOM  11514  P   G   A 558     150.039 101.533  -4.194  1.00 23.93      A16S
ATOM  11515  O1P G   A 558     149.101 102.613  -4.643  1.00 46.36      A16S
ATOM  11516  O2P G   A 558     150.421 100.448  -5.158  1.00 46.36      A16S
ATOM  11517  O5* G   A 558     151.354 102.240  -3.619  1.00 23.93      A16S
ATOM  11518  C5* G   A 558     151.272 103.520  -2.947  1.00 23.93      A16S
ATOM  11519  C4* G   A 558     152.419 103.688  -1.978  1.00 23.93      A16S
ATOM  11520  O4* G   A 558     152.516 102.487  -1.175  1.00 23.93      A16S
ATOM  11521  C1* G   A 558     153.861 102.252  -0.817  1.00 23.93      A16S
ATOM  11522  N9  G   A 558     154.250 100.946  -1.332  1.00 46.36      A16S
ATOM  11523  C4  G   A 558     155.211 100.104  -0.815  1.00 46.36      A16S
ATOM  11524  N3  G   A 558     155.957 100.325   0.287  1.00 46.36      A16S
ATOM  11525  C2  G   A 558     156.805  99.339   0.512  1.00 46.36      A16S
ATOM  11526  N2  G   A 558     157.637  99.395   1.551  1.00 46.36      A16S
ATOM  11527  N1  G   A 558     156.902  98.227  -0.263  1.00 46.36      A16S
ATOM  11528  C6  G   A 558     156.138  97.970  -1.389  1.00 46.36      A16S
ATOM  11529  O6  G   A 558     156.288  96.905  -2.004  1.00 46.36      A16S
ATOM  11530  C5  G   A 558     155.241  99.025  -1.662  1.00 46.36      A16S
ATOM  11531  N7  G   A 558     154.317  99.176  -2.685  1.00 46.36      A16S
ATOM  11532  C8  G   A 558     153.748 100.322  -2.443  1.00 46.36      A16S
ATOM  11533  C2* G   A 558     154.695 103.383  -1.414  1.00 23.93      A16S
ATOM  11534  O2* G   A 558     154.866 104.356  -0.417  1.00 23.93      A16S
ATOM  11535  C3* G   A 558     153.811 103.883  -2.549  1.00 23.93      A16S
ATOM  11536  O3* G   A 558     154.094 105.249  -2.761  1.00 23.93      A16S
ATOM  11537  P   A   A 559     154.144 105.844  -4.248  1.00 38.01      A16S
ATOM  11538  O1P A   A 559     155.227 106.855  -4.341  1.00 34.54      A16S
ATOM  11539  O2P A   A 559     152.772 106.208  -4.664  1.00 34.54      A16S
ATOM  11540  O5* A   A 559     154.575 104.651  -5.191  1.00 38.01      A16S
ATOM  11541  C5* A   A 559     154.366 104.755  -6.612  1.00 38.01      A16S
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ATOM  11542  C4* A   A 559     154.087 103.398  -7.177  1.00 38.01       A16S
ATOM  11543  O4* A   A 559     155.240 102.589  -6.918  1.00 38.01       A16S
ATOM  11544  C1* A   A 559     154.847 101.255  -6.947  1.00 38.01       A16S
ATOM  11545  N9  A   A 559     155.917 100.457  -6.356  1.00 34.54       A16S
ATOM  11546  C4  A   A 559     156.522 100.584  -5.132  1.00 34.54       A16S
ATOM  11547  N3  A   A 559     156.251 101.474  -4.173  1.00 34.54       A16S
ATOM  11548  C2  A   A 559     157.037 101.282  -3.121  1.00 34.54       A16S
ATOM  11549  N1  A   A 559     157.987 100.376  -2.936  1.00 34.54       A16S
ATOM  11550  C6  A   A 559     158.242  99.508  -3.925  1.00 34.54       A16S
ATOM  11551  N6  A   A 559     159.203  98.609  -3.750  1.00 34.54       A16S
ATOM  11552  C5  A   A 559     157.482  99.601  -5.085  1.00 34.54       A16S
ATOM  11553  N7  A   A 559     157.489  98.869  -6.255  1.00 34.54       A16S
ATOM  11554  C8  A   A 559     156.542  99.414  -6.969  1.00 34.54       A16S
ATOM  11555  C2* A   A 559     153.443 101.190  -6.340  1.00 38.01       A16S
ATOM  11556  O2* A   A 559     152.698 100.227  -7.056  1.00 38.01       A16S
ATOM  11557  C3* A   A 559     152.971 102.657  -6.458  1.00 38.01       A16S
ATOM  11558  O3* A   A 559     151.630 103.046  -6.884  1.00 38.01       A16S
ATOM  11559  P   U   A 560     151.044 102.608  -8.317  1.00 31.13       A16S
ATOM  11560  O1P U   A 560     149.573 102.621  -8.174  1.00 58.93       A16S
ATOM  11561  O2P U   A 560     151.712 101.387  -8.798  1.00 58.93       A16S
ATOM  11562  O5* U   A 560     151.441 103.777  -9.308  1.00 31.13       A16S
ATOM  11563  C5* U   A 560     152.056 103.459 -10.566  1.00 31.13       A16S
ATOM  11564  C4* U   A 560     152.460 104.709 -11.299  1.00 31.13       A16S
ATOM  11565  O4* U   A 560     151.289 105.320 -11.894  1.00 31.13       A16S
ATOM  11566  C1* U   A 560     151.338 106.727 -11.737  1.00 31.13       A16S
ATOM  11567  N1  U   A 560     150.221 107.125 -10.864  1.00 58.93       A16S
ATOM  11568  C6  U   A 560     149.899 106.372  -9.761  1.00 58.93       A16S
ATOM  11569  C2  U   A 560     149.511 108.283 -11.170  1.00 58.93       A16S
ATOM  11570  O2  U   A 560     149.746 108.978 -12.142  1.00 58.93       A16S
ATOM  11571  N3  U   A 560     148.510 108.592 -10.285  1.00 58.93       A16S
ATOM  11572  C4  U   A 560     148.154 107.882  -9.148  1.00 58.93       A16S
ATOM  11573  O4  U   A 560     147.286 108.331  -8.389  1.00 58.93       A16S
ATOM  11574  C5  U   A 560     148.923 106.700  -8.923  1.00 58.93       A16S
ATOM  11575  C2* U   A 560     152.706 107.067 -11.140  1.00 31.13       A16S
ATOM  11576  O2* U   A 560     153.568 107.407 -12.202  1.00 31.13       A16S
ATOM  11577  C3* U   A 560     153.052 105.774 -10.407  1.00 31.13       A16S
ATOM  11578  O3* U   A 560     154.397 105.489  -9.972  1.00 31.13       A16S
ATOM  11579  P   U   A 561     155.631 105.430 -11.011  1.00 24.20       A16S
ATOM  11580  O1P U   A 561     156.822 105.795 -10.206  1.00 57.10       A16S
ATOM  11581  O2P U   A 561     155.375 106.143 -12.283  1.00 57.10       A16S
ATOM  11582  O5* U   A 561     155.766 103.883 -11.346  1.00 24.20       A16S
ATOM  11583  C5* U   A 561     155.564 103.421 -12.682  1.00 24.20       A16S
ATOM  11584  C4* U   A 561     155.812 101.948 -12.761  1.00 24.20       A16S
ATOM  11585  O4* U   A 561     157.164 101.696 -12.304  1.00 24.20       A16S
ATOM  11586  C1* U   A 561     157.140 100.690 -11.322  1.00 24.20       A16S
ATOM  11587  N1  U   A 561     158.227 100.903 -10.359  1.00 57.10       A16S
ATOM  11588  C6  U   A 561     158.332 102.061  -9.652  1.00 57.10       A16S
ATOM  11589  C2  U   A 561     159.124  99.873 -10.168  1.00 57.10       A16S
ATOM  11590  O2  U   A 561     159.101  98.844 -10.813  1.00 57.10       A16S
ATOM  11591  N3  U   A 561     160.052 100.090  -9.194  1.00 57.10       A16S
ATOM  11592  C4  U   A 561     160.178 101.205  -8.411  1.00 57.10       A16S
ATOM  11593  O4  U   A 561     160.915 101.168  -7.428  1.00 57.10       A16S
ATOM  11594  C5  U   A 561     159.253 102.243  -8.711  1.00 57.10       A16S
ATOM  11595  C2* U   A 561     155.756 100.747 -10.704  1.00 24.20       A16S
ATOM  11596  O2* U   A 561     155.497  99.485 -10.165  1.00 24.20       A16S
ATOM  11597  C3* U   A 561     154.895 101.070 -11.917  1.00 24.20       A16S
ATOM  11598  O3* U   A 561     154.623  99.878 -12.644  1.00 24.20       A16S
ATOM  11599  P   C   A 562     153.286  99.044 -12.349  1.00 33.42       A16S
ATOM  11600  O1P C   A 562     152.762  99.499 -11.045  1.00 35.92       A16S
ATOM  11601  O2P C   A 562     153.540  97.601 -12.575  1.00 35.92       A16S
ATOM  11602  O5* C   A 562     152.246  99.566 -13.426  1.00 33.42       A16S
ATOM  11603  C5* C   A 562     152.569  99.551 -14.802  1.00 33.42       A16S
ATOM  11604  C4* C   A 562     151.360  99.208 -15.627  1.00 33.42       A16S
ATOM  11605  O4* C   A 562     151.912  98.823 -16.894  1.00 33.42       A16S
ATOM  11606  C1* C   A 562     151.696  97.454 -17.121  1.00 33.42       A16S
ATOM  11607  N1  C   A 562     152.944  96.891 -17.651  1.00 35.92       A16S
ATOM  11608  C6  C   A 562     154.120  96.989 -16.957  1.00 35.92       A16S
ATOM  11609  C2  C   A 562     152.908  96.257 -18.871  1.00 35.92       A16S
ATOM  11610  O2  C   A 562     151.842  96.217 -19.481  1.00 35.92       A16S
ATOM  11611  N3  C   A 562     154.039  95.708 -19.369  1.00 35.92       A16S
ATOM  11612  C4  C   A 562     155.181  95.791 -18.682  1.00 35.92       A16S
ATOM  11613  N4  C   A 562     156.266  95.212 -19.200  1.00 35.92       A16S
ATOM  11614  C5  C   A 562     155.254  96.462 -17.435  1.00 35.92       A16S
ATOM  11615  C2* C   A 562     151.234  96.838 -15.805  1.00 33.42       A16S
ATOM  11616  O2* C   A 562     150.345  95.766 -16.051  1.00 33.42       A16S
ATOM  11617  C3* C   A 562     150.544  98.015 -15.134  1.00 33.42       A16S
ATOM  11618  O3* C   A 562     149.197  98.052 -15.638  1.00 33.42       A16S
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ATOM  11619  P    A   A 563     148.027  98.814 -14.828  1.00 26.54      A16S
ATOM  11620  O1P  A   A 563     148.279  98.788 -13.356  1.00 41.42      A16S
ATOM  11621  O2P  A   A 563     146.725  98.321 -15.349  1.00 41.42      A16S
ATOM  11622  O5*  A   A 563     148.232 100.314 -15.326  1.00 26.54      A16S
ATOM  11623  C5*  A   A 563     147.443 101.382 -14.806  1.00 26.54      A16S
ATOM  11624  C4*  A   A 563     147.888 102.688 -15.401  1.00 26.54      A16S
ATOM  11625  O4*  A   A 563     149.209 103.042 -14.938  1.00 26.54      A16S
ATOM  11626  C1*  A   A 563     149.741 103.987 -15.839  1.00 26.54      A16S
ATOM  11627  N9   A   A 563     151.197 103.858 -15.910  1.00 41.42      A16S
ATOM  11628  C4   A   A 563     151.978 103.040 -16.691  1.00 41.42      A16S
ATOM  11629  N3   A   A 563     151.574 102.104 -17.559  1.00 41.42      A16S
ATOM  11630  C2   A   A 563     152.615 101.545 -18.157  1.00 41.42      A16S
ATOM  11631  N1   A   A 563     153.912 101.798 -18.001  1.00 41.42      A16S
ATOM  11632  C6   A   A 563     154.279 102.746 -17.122  1.00 41.42      A16S
ATOM  11633  N6   A   A 563     155.571 103.023 -16.973  1.00 41.42      A16S
ATOM  11634  C5   A   A 563     153.281 103.399 -16.420  1.00 41.42      A16S
ATOM  11635  N7   A   A 563     153.330 104.395 -15.463  1.00 41.42      A16S
ATOM  11636  C8   A   A 563     152.072 104.621 -15.186  1.00 41.42      A16S
ATOM  11637  C2*  A   A 563     148.956 103.909 -17.158  1.00 26.54      A16S
ATOM  11638  O2*  A   A 563     148.276 105.123 -17.388  1.00 26.54      A16S
ATOM  11639  C3*  A   A 563     147.995 102.743 -16.915  1.00 26.54      A16S
ATOM  11640  O3*  A   A 563     146.731 103.093 -17.418  1.00 26.54      A16S
ATOM  11641  P    C   A 564     146.212 102.485 -18.793  1.00 35.77      A16S
ATOM  11642  O1P  C   A 564     146.730 101.101 -18.901  1.00 50.91      A16S
ATOM  11643  O2P  C   A 564     146.467 103.455 -19.883  1.00 50.91      A16S
ATOM  11644  O5*  C   A 564     144.642 102.414 -18.558  1.00 35.77      A16S
ATOM  11645  C5*  C   A 564     143.715 102.805 -19.586  1.00 35.77      A16S
ATOM  11646  C4*  C   A 564     142.382 103.158 -18.973  1.00 35.77      A16S
ATOM  11647  O4*  C   A 564     141.844 101.993 -18.301  1.00 35.77      A16S
ATOM  11648  C1*  C   A 564     141.167 102.403 -17.124  1.00 35.77      A16S
ATOM  11649  N1   C   A 564     141.721 101.703 -15.955  1.00 50.91      A16S
ATOM  11650  C6   C   A 564     142.883 100.998 -16.030  1.00 50.91      A16S
ATOM  11651  C2   C   A 564     141.030 101.776 -14.765  1.00 50.91      A16S
ATOM  11652  O2   C   A 564     139.986 102.432 -14.730  1.00 50.91      A16S
ATOM  11653  N3   C   A 564     141.502 101.135 -13.680  1.00 50.91      A16S
ATOM  11654  C4   C   A 564     142.623 100.439 -13.763  1.00 50.91      A16S
ATOM  11655  N4   C   A 564     143.046  99.803 -12.676  1.00 50.91      A16S
ATOM  11656  C5   C   A 564     143.364 100.355 -14.966  1.00 50.91      A16S
ATOM  11657  C2*  C   A 564     141.264 103.924 -17.012  1.00 35.77      A16S
ATOM  11658  O2*  C   A 564     140.084 104.473 -17.532  1.00 35.77      A16S
ATOM  11659  C3*  C   A 564     142.452 104.236 -17.901  1.00 35.77      A16S
ATOM  11660  O3*  C   A 564     142.314 105.524 -18.473  1.00 35.77      A16S
ATOM  11661  P    U   A 565     143.269 106.717 -17.982  1.00 36.91      A16S
ATOM  11662  O1P  U   A 565     142.895 107.895 -18.798  1.00 46.86      A16S
ATOM  11663  O2P  U   A 565     144.685 106.255 -17.965  1.00 46.86      A16S
ATOM  11664  O5*  U   A 565     142.799 107.006 -16.494  1.00 36.91      A16S
ATOM  11665  C5*  U   A 565     141.547 107.647 -16.248  1.00 36.91      A16S
ATOM  11666  C4*  U   A 565     141.212 107.599 -14.783  1.00 36.91      A16S
ATOM  11667  O4*  U   A 565     141.044 106.225 -14.359  1.00 36.91      A16S
ATOM  11668  C1*  U   A 565     141.391 106.105 -12.998  1.00 36.91      A16S
ATOM  11669  N1   U   A 565     142.377 105.028 -12.850  1.00 46.86      A16S
ATOM  11670  C6   U   A 565     143.343 104.811 -13.797  1.00 46.86      A16S
ATOM  11671  C2   U   A 565     142.319 104.256 -11.705  1.00 46.86      A16S
ATOM  11672  O2   U   A 565     141.460 104.386 -10.863  1.00 46.86      A16S
ATOM  11673  N3   U   A 565     143.311 103.319 -11.586  1.00 46.86      A16S
ATOM  11674  C4   U   A 565     144.330 103.069 -12.484  1.00 46.86      A16S
ATOM  11675  O4   U   A 565     145.181 102.217 -12.219  1.00 46.86      A16S
ATOM  11676  C5   U   A 565     144.297 103.886 -13.658  1.00 46.86      A16S
ATOM  11677  C2*  U   A 565     141.910 107.467 -12.526  1.00 36.91      A16S
ATOM  11678  O2*  U   A 565     140.886 108.132 -11.821  1.00 36.91      A16S
ATOM  11679  C3*  U   A 565     142.259 108.154 -13.841  1.00 36.91      A16S
ATOM  11680  O3*  U   A 565     142.147 109.571 -13.762  1.00 36.91      A16S
ATOM  11681  P    G   A 566     143.457 110.472 -13.499  1.00 34.39      A16S
ATOM  11682  O1P  G   A 566     143.328 111.743 -14.283  1.00 31.27      A16S
ATOM  11683  O2P  G   A 566     143.707 110.525 -12.035  1.00 31.27      A16S
ATOM  11684  O5*  G   A 566     144.642 109.644 -14.159  1.00 34.39      A16S
ATOM  11685  C5*  G   A 566     145.898 110.273 -14.435  1.00 34.39      A16S
ATOM  11686  C4*  G   A 566     146.927 109.240 -14.772  1.00 34.39      A16S
ATOM  11687  O4*  G   A 566     147.213 108.449 -13.596  1.00 34.39      A16S
ATOM  11688  C1*  G   A 566     147.053 107.085 -13.898  1.00 34.39      A16S
ATOM  11689  N9   G   A 566     146.625 106.409 -12.678  1.00 31.27      A16S
ATOM  11690  C4   G   A 566     147.195 105.294 -12.115  1.00 31.27      A16S
ATOM  11691  N3   G   A 566     148.218 104.576 -12.629  1.00 31.27      A16S
ATOM  11692  C2   G   A 566     148.572 103.583 -11.825  1.00 31.27      A16S
ATOM  11693  N2   G   A 566     149.553 102.752 -12.175  1.00 31.27      A16S
ATOM  11694  N1   G   A 566     147.985 103.327 -10.610  1.00 31.27      A16S
ATOM  11695  C6   G   A 566     146.937 104.065 -10.057  1.00 31.27      A16S
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ATOM  11696  O6  G   A 566     146.499 103.776  -8.924  1.00 31.27      A16S
ATOM  11697  C5  G   A 566     146.530 105.111 -10.923  1.00 31.27      A16S
ATOM  11698  N7  G   A 566     145.533 106.052 -10.770  1.00 31.27      A16S
ATOM  11699  C8  G   A 566     145.621 106.795 -11.836  1.00 31.27      A16S
ATOM  11700  C2* G   A 566     146.104 107.033 -15.092  1.00 34.39      A16S
ATOM  11701  O2* G   A 566     146.335 105.873 -15.845  1.00 34.39      A16S
ATOM  11702  C3* G   A 566     146.523 108.274 -15.869  1.00 34.39      A16S
ATOM  11703  O3* G   A 566     147.671 107.963 -16.634  1.00 34.39      A16S
ATOM  11704  P   G   A 567     148.102 108.903 -17.857  1.00 50.72      A16S
ATOM  11705  O1P G   A 567     147.540 108.374 -19.127  1.00 59.92      A16S
ATOM  11706  O2P G   A 567     147.865 110.306 -17.482  1.00 59.92      A16S
ATOM  11707  O5* G   A 567     149.669 108.689 -17.881  1.00 28.47      A16S
ATOM  11708  C5* G   A 567     150.430 108.766 -16.673  1.00 28.47      A16S
ATOM  11709  C4* G   A 567     151.863 108.366 -16.930  1.00 28.47      A16S
ATOM  11710  O4* G   A 567     151.997 106.919 -16.984  1.00 28.47      A16S
ATOM  11711  C1* G   A 567     153.087 106.577 -17.824  1.00 28.47      A16S
ATOM  11712  N9  G   A 567     152.641 105.604 -18.816  1.00 32.35      A16S
ATOM  11713  C4  G   A 567     153.442 104.770 -19.568  1.00 32.35      A16S
ATOM  11714  N3  G   A 567     154.783 104.675 -19.493  1.00 32.35      A16S
ATOM  11715  C2  G   A 567     155.265 103.789 -20.357  1.00 32.35      A16S
ATOM  11716  N2  G   A 567     156.585 103.547 -20.407  1.00 32.35      A16S
ATOM  11717  N1  G   A 567     154.496 103.067 -21.228  1.00 32.35      A16S
ATOM  11718  C6  G   A 567     153.119 103.142 -21.321  1.00 32.35      A16S
ATOM  11719  O6  G   A 567     152.524 102.429 -22.138  1.00 32.35      A16S
ATOM  11720  C5  G   A 567     152.582 104.086 -20.396  1.00 32.35      A16S
ATOM  11721  N7  G   A 567     151.269 104.464 -20.158  1.00 32.35      A16S
ATOM  11722  C8  G   A 567     151.354 105.355 -19.207  1.00 32.35      A16S
ATOM  11723  C2* G   A 567     153.623 107.873 -18.445  1.00 28.47      A16S
ATOM  11724  O2* G   A 567     154.756 108.301 -17.730  1.00 28.47      A16S
ATOM  11725  C3* G   A 567     152.468 108.846 -18.238  1.00 28.47      A16S
ATOM  11726  O3* G   A 567     152.931 110.190 -18.146  1.00 28.47      A16S
ATOM  11727  P   G   A 568     153.256 111.010 -19.491  1.00 33.78      A16S
ATOM  11728  O1P G   A 568     153.355 112.434 -19.114  1.00 35.08      A16S
ATOM  11729  O2P G   A 568     152.350 110.607 -20.583  1.00 35.08      A16S
ATOM  11730  O5* G   A 568     154.712 110.504 -19.863  1.00 33.78      A16S
ATOM  11731  C5* G   A 568     155.118 110.338 -21.224  1.00 33.78      A16S
ATOM  11732  C4* G   A 568     156.111 109.214 -21.309  1.00 33.78      A16S
ATOM  11733  O4* G   A 568     155.433 107.961 -21.051  1.00 33.78      A16S
ATOM  11734  C1* G   A 568     156.033 106.931 -21.808  1.00 33.78      A16S
ATOM  11735  N9  G   A 568     155.002 106.298 -22.634  1.00 35.08      A16S
ATOM  11736  C4  G   A 568     155.201 105.358 -23.610  1.00 35.08      A16S
ATOM  11737  N3  G   A 568     156.387 104.867 -23.996  1.00 35.08      A16S
ATOM  11738  C2  G   A 568     156.261 103.968 -24.950  1.00 35.08      A16S
ATOM  11739  N2  G   A 568     157.345 103.382 -25.448  1.00 35.08      A16S
ATOM  11740  N1  G   A 568     155.066 103.578 -25.489  1.00 35.08      A16S
ATOM  11741  C6  G   A 568     153.826 104.060 -25.107  1.00 35.08      A16S
ATOM  11742  O6  G   A 568     152.808 103.625 -25.653  1.00 35.08      A16S
ATOM  11743  C5  G   A 568     153.944 105.035 -24.077  1.00 35.08      A16S
ATOM  11744  N7  G   A 568     152.970 105.761 -23.409  1.00 35.08      A16S
ATOM  11745  C8  G   A 568     153.643 106.502 -22.571  1.00 35.08      A16S
ATOM  11746  C2* G   A 568     157.218 107.550 -22.554  1.00 33.78      A16S
ATOM  11747  O2* G   A 568     158.368 107.457 -21.730  1.00 33.78      A16S
ATOM  11748  C3* G   A 568     156.803 109.008 -22.639  1.00 33.78      A16S
ATOM  11749  O3* G   A 568     157.935 109.859 -22.740  1.00 33.78      A16S
ATOM  11750  P   C   A 569     158.135 110.746 -24.061  1.00 38.77      A16S
ATOM  11751  O1P C   A 569     159.107 111.830 -23.746  1.00 38.98      A16S
ATOM  11752  O2P C   A 569     156.799 111.093 -24.626  1.00 38.98      A16S
ATOM  11753  O5* C   A 569     158.833 109.744 -25.077  1.00 38.77      A16S
ATOM  11754  C5* C   A 569     160.125 109.200 -24.794  1.00 38.77      A16S
ATOM  11755  C4* C   A 569     160.483 108.187 -25.833  1.00 38.77      A16S
ATOM  11756  O4* C   A 569     159.634 107.028 -25.687  1.00 38.77      A16S
ATOM  11757  C1* C   A 569     159.338 106.499 -26.959  1.00 38.77      A16S
ATOM  11758  N1  C   A 569     157.881 106.419 -27.115  1.00 38.98      A16S
ATOM  11759  C6  C   A 569     157.049 107.197 -26.367  1.00 38.98      A16S
ATOM  11760  C2  C   A 569     157.355 105.523 -28.037  1.00 38.98      A16S
ATOM  11761  O2  C   A 569     158.122 104.834 -28.694  1.00 38.98      A16S
ATOM  11762  N3  C   A 569     156.028 105.422 -28.187  1.00 38.98      A16S
ATOM  11763  C4  C   A 569     155.223 106.165 -27.441  1.00 38.98      A16S
ATOM  11764  N4  C   A 569     153.914 106.009 -27.598  1.00 38.98      A16S
ATOM  11765  C5  C   A 569     155.725 107.098 -26.492  1.00 38.98      A16S
ATOM  11766  C2* C   A 569     160.028 107.366 -28.009  1.00 38.77      A16S
ATOM  11767  O2* C   A 569     161.228 106.725 -28.356  1.00 38.77      A16S
ATOM  11768  C3* C   A 569     160.257 108.666 -27.250  1.00 38.77      A16S
ATOM  11769  O3* C   A 569     161.401 109.376 -27.714  1.00 38.77      A16S
ATOM  11770  P   G   A 570     161.234 110.857 -28.304  1.00 34.97      A16S
ATOM  11771  O1P G   A 570     161.045 111.764 -27.148  1.00 43.01      A16S
ATOM  11772  O2P G   A 570     160.210 110.788 -29.363  1.00 43.01      A16S
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ATOM  11773  O5* G   A 570     162.636 111.180 -28.989  1.00 34.97      A16S
ATOM  11774  C5* G   A 570     162.955 110.686 -30.316  1.00 34.97      A16S
ATOM  11775  C4* G   A 570     164.296 111.213 -30.761  1.00 34.97      A16S
ATOM  11776  O4* G   A 570     164.203 112.642 -30.939  1.00 34.97      A16S
ATOM  11777  C1* G   A 570     165.308 113.277 -30.325  1.00 34.97      A16S
ATOM  11778  N9  G   A 570     164.786 114.165 -29.283  1.00 43.01      A16S
ATOM  11779  C4  G   A 570     165.500 114.979 -28.423  1.00 43.01      A16S
ATOM  11780  N3  G   A 570     166.839 115.089 -28.356  1.00 43.01      A16S
ATOM  11781  C2  G   A 570     167.216 115.960 -27.444  1.00 43.01      A16S
ATOM  11782  N2  G   A 570     168.517 116.183 -27.235  1.00 43.01      A16S
ATOM  11783  N1  G   A 570     166.351 116.671 -26.667  1.00 43.01      A16S
ATOM  11784  C6  G   A 570     164.974 116.568 -26.710  1.00 43.01      A16S
ATOM  11785  O6  G   A 570     164.286 117.250 -25.950  1.00 43.01      A16S
ATOM  11786  C5  G   A 570     164.555 115.637 -27.676  1.00 43.01      A16S
ATOM  11787  N7  G   A 570     163.279 115.239 -28.038  1.00 43.01      A16S
ATOM  11788  C8  G   A 570     163.464 114.366 -28.986  1.00 43.01      A16S
ATOM  11789  C2* G   A 570     166.289 112.188 -29.867  1.00 34.97      A16S
ATOM  11790  O2* G   A 570     167.284 112.005 -30.855  1.00 34.97      A16S
ATOM  11791  C3* G   A 570     165.383 110.975 -29.728  1.00 34.97      A16S
ATOM  11792  O3* G   A 570     166.062 109.779 -30.080  1.00 34.97      A16S
ATOM  11793  P   U   A 571     166.664 108.839 -28.941  1.00 23.76      A16S
ATOM  11794  O1P U   A 571     167.227 107.618 -29.565  1.00 46.18      A16S
ATOM  11795  O2P U   A 571     165.637 108.703 -27.882  1.00 46.18      A16S
ATOM  11796  O5* U   A 571     167.851 109.716 -28.363  1.00 23.76      A16S
ATOM  11797  C5* U   A 571     169.193 109.545 -28.827  1.00 23.76      A16S
ATOM  11798  C4* U   A 571     170.126 110.295 -27.930  1.00 23.76      A16S
ATOM  11799  O4* U   A 571     169.731 111.688 -27.938  1.00 23.76      A16S
ATOM  11800  C1* U   A 571     169.889 112.237 -26.643  1.00 23.76      A16S
ATOM  11801  N1  U   A 571     168.585 112.732 -26.169  1.00 46.18      A16S
ATOM  11802  C6  U   A 571     167.411 112.223 -26.663  1.00 46.18      A16S
ATOM  11803  C2  U   A 571     168.575 113.729 -25.205  1.00 46.18      A16S
ATOM  11804  O2  U   A 571     169.588 114.217 -24.740  1.00 46.18      A16S
ATOM  11805  N3  U   A 571     167.330 114.134 -24.809  1.00 46.18      A16S
ATOM  11806  C4  U   A 571     166.123 113.666 -25.268  1.00 46.18      A16S
ATOM  11807  O4  U   A 571     165.079 114.156 -24.840  1.00 46.18      A16S
ATOM  11808  C5  U   A 571     166.219 112.644 -26.257  1.00 46.18      A16S
ATOM  11809  C2* U   A 571     170.483 111.147 -25.755  1.00 23.76      A16S
ATOM  11810  O2* U   A 571     171.884 111.310 -25.753  1.00 23.76      A16S
ATOM  11811  C3* U   A 571     170.054 109.882 -26.478  1.00 23.76      A16S
ATOM  11812  O3* U   A 571     170.938 108.818 -26.218  1.00 23.76      A16S
ATOM  11813  P   A   A 572     170.355 107.362 -25.873  1.00 39.12      A16S
ATOM  11814  O1P A   A 572     171.473 106.373 -26.061  1.00 61.27      A16S
ATOM  11815  O2P A   A 572     169.061 107.171 -26.593  1.00 61.27      A16S
ATOM  11816  O5* A   A 572     170.079 107.367 -24.309  1.00 39.12      A16S
ATOM  11817  C5* A   A 572     169.103 108.224 -23.717  1.00 39.12      A16S
ATOM  11818  C4* A   A 572     168.893 107.810 -22.289  1.00 39.12      A16S
ATOM  11819  O4* A   A 572     168.118 108.781 -21.571  1.00 39.12      A16S
ATOM  11820  C1* A   A 572     167.546 108.155 -20.451  1.00 39.12      A16S
ATOM  11821  N9  A   A 572     166.250 108.780 -20.185  1.00 61.27      A16S
ATOM  11822  C4  A   A 572     166.096 109.945 -19.475  1.00 61.27      A16S
ATOM  11823  N3  A   A 572     167.057 110.674 -18.891  1.00 61.27      A16S
ATOM  11824  C2  A   A 572     166.547 111.757 -18.328  1.00 61.27      A16S
ATOM  11825  N1  A   A 572     165.285 112.164 -18.278  1.00 61.27      A16S
ATOM  11826  C6  A   A 572     164.341 111.407 -18.863  1.00 61.27      A16S
ATOM  11827  N6  A   A 572     163.075 111.814 -18.797  1.00 61.27      A16S
ATOM  11828  C5  A   A 572     164.751 110.231 -19.504  1.00 61.27      A16S
ATOM  11829  N7  A   A 572     164.057 109.251 -20.198  1.00 61.27      A16S
ATOM  11830  C8  A   A 572     164.990 108.412 -20.574  1.00 61.27      A16S
ATOM  11831  C2* A   A 572     167.615 106.640 -20.663  1.00 39.12      A16S
ATOM  11832  O2* A   A 572     168.506 106.163 -19.697  1.00 39.12      A16S
ATOM  11833  C3* A   A 572     168.150 106.510 -22.096  1.00 39.12      A16S
ATOM  11834  O3* A   A 572     169.113 105.459 -22.235  1.00 39.12      A16S
ATOM  11835  P   A   A 573     168.853 104.222 -23.243  1.00 25.53      A16S
ATOM  11836  O1P A   A 573     170.153 103.536 -23.371  1.00 39.10      A16S
ATOM  11837  O2P A   A 573     168.164 104.678 -24.468  1.00 39.10      A16S
ATOM  11838  O5* A   A 573     167.914 103.270 -22.383  1.00 25.53      A16S
ATOM  11839  C5* A   A 573     168.027 101.838 -22.450  1.00 25.53      A16S
ATOM  11840  C4* A   A 573     166.675 101.228 -22.747  1.00 25.53      A16S
ATOM  11841  O4* A   A 573     165.780 101.398 -21.616  1.00 25.53      A16S
ATOM  11842  C1* A   A 573     164.487 101.716 -22.087  1.00 25.53      A16S
ATOM  11843  N9  A   A 573     164.118 103.020 -21.546  1.00 39.10      A16S
ATOM  11844  C4  A   A 573     162.893 103.367 -21.033  1.00 39.10      A16S
ATOM  11845  N3  A   A 573     161.788 102.611 -20.984  1.00 39.10      A16S
ATOM  11846  C2  A   A 573     160.801 103.269 -20.397  1.00 39.10      A16S
ATOM  11847  N1  A   A 573     160.795 104.498 -19.880  1.00 39.10      A16S
ATOM  11848  C6  A   A 573     161.924 105.228 -19.938  1.00 39.10      A16S
ATOM  11849  N6  A   A 573     161.921 106.445 -19.397  1.00 39.10      A16S
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ATOM  11850  C5  A   A 573     163.036 104.654 -20.555  1.00 39.10      A16S
ATOM  11851  N7  A   A 573     164.315 105.128 -20.800  1.00 39.10      A16S
ATOM  11852  C8  A   A 573     164.911 104.128 -21.397  1.00 39.10      A16S
ATOM  11853  C2* A   A 573     164.498 101.632 -23.615  1.00 25.53      A16S
ATOM  11854  O2* A   A 573     164.094 100.325 -23.971  1.00 25.53      A16S
ATOM  11855  C3* A   A 573     165.969 101.867 -23.932  1.00 25.53      A16S
ATOM  11856  O3* A   A 573     166.368 101.196 -25.116  1.00 25.53      A16S
ATOM  11857  P   A   A 574     166.511 102.008 -26.489  1.00 35.87      A16S
ATOM  11858  O1P A   A 574     167.269 101.162 -27.429  1.00 42.95      A16S
ATOM  11859  O2P A   A 574     166.992 103.372 -26.185  1.00 42.95      A16S
ATOM  11860  O5* A   A 574     165.026 102.048 -27.054  1.00 35.87      A16S
ATOM  11861  C5* A   A 574     164.286 100.819 -27.245  1.00 35.87      A16S
ATOM  11862  C4* A   A 574     162.815 101.105 -27.384  1.00 35.87      A16S
ATOM  11863  O4* A   A 574     162.277 101.600 -26.138  1.00 35.87      A16S
ATOM  11864  C1* A   A 574     161.342 102.625 -26.401  1.00 35.87      A16S
ATOM  11865  N9  A   A 574     161.769 103.824 -25.677  1.00 42.95      A16S
ATOM  11866  C4  A   A 574     161.113 104.418 -24.627  1.00 42.95      A16S
ATOM  11867  N3  A   A 574     159.946 104.048 -24.078  1.00 42.95      A16S
ATOM  11868  C2  A   A 574     159.642 104.834 -23.060  1.00 42.95      A16S
ATOM  11869  N1  A   A 574     160.314 105.872 -22.567  1.00 42.95      A16S
ATOM  11870  C6  A   A 574     161.472 106.226 -23.148  1.00 42.95      A16S
ATOM  11871  N6  A   A 574     162.133 107.276 -22.665  1.00 42.95      A16S
ATOM  11872  C5  A   A 574     161.910 105.469 -24.233  1.00 42.95      A16S
ATOM  11873  N7  A   A 574     163.035 105.557 -25.031  1.00 42.95      A16S
ATOM  11874  C8  A   A 574     162.900 104.566 -25.872  1.00 42.95      A16S
ATOM  11875  C2* A   A 574     161.209 102.771 -27.919  1.00 35.87      A16S
ATOM  11876  O2* A   A 574     160.081 102.021 -28.302  1.00 35.87      A16S
ATOM  11877  C3* A   A 574     162.511 102.159 -28.423  1.00 35.87      A16S
ATOM  11878  O3* A   A 574     162.333 101.455 -29.636  1.00 35.87      A16S
ATOM  11879  P   G   A 575     163.030 101.968 -30.984  1.00 33.62      A16S
ATOM  11880  O1P G   A 575     162.584 101.058 -32.075  1.00 27.23      A16S
ATOM  11881  O2P G   A 575     164.468 102.196 -30.764  1.00 27.23      A16S
ATOM  11882  O5* G   A 575     162.372 103.384 -31.236  1.00 33.62      A16S
ATOM  11883  C5* G   A 575     161.007 103.470 -31.593  1.00 33.62      A16S
ATOM  11884  C4* G   A 575     160.847 103.430 -33.093  1.00 33.62      A16S
ATOM  11885  O4* G   A 575     159.442 103.620 -33.337  1.00 33.62      A16S
ATOM  11886  C1* G   A 575     159.214 104.865 -33.937  1.00 33.62      A16S
ATOM  11887  N9  G   A 575     158.038 105.422 -33.280  1.00 27.23      A16S
ATOM  11888  C4  G   A 575     156.730 105.161 -33.597  1.00 27.23      A16S
ATOM  11889  N3  G   A 575     156.300 104.388 -34.612  1.00 27.23      A16S
ATOM  11890  C2  G   A 575     154.980 104.293 -34.638  1.00 27.23      A16S
ATOM  11891  N2  G   A 575     154.388 103.549 -35.583  1.00 27.23      A16S
ATOM  11892  N1  G   A 575     154.144 104.918 -33.743  1.00 27.23      A16S
ATOM  11893  C6  G   A 575     154.564 105.727 -32.698  1.00 27.23      A16S
ATOM  11894  O6  G   A 575     153.727 106.261 -31.952  1.00 27.23      A16S
ATOM  11895  C5  G   A 575     155.987 105.826 -32.655  1.00 27.23      A16S
ATOM  11896  N7  G   A 575     156.810 106.515 -31.784  1.00 27.23      A16S
ATOM  11897  C8  G   A 575     158.012 106.255 -32.202  1.00 27.23      A16S
ATOM  11898  C2* G   A 575     160.513 105.658 -33.800  1.00 33.62      A16S
ATOM  11899  O2* G   A 575     160.650 106.545 -34.891  1.00 33.62      A16S
ATOM  11900  C3* G   A 575     161.566 104.554 -33.811  1.00 33.62      A16S
ATOM  11901  O3* G   A 575     161.854 104.279 -35.201  1.00 33.62      A16S
ATOM  11902  P   G   A 576     162.422 102.845 -35.706  1.00 38.71      A16S
ATOM  11903  O1P G   A 576     163.472 102.291 -34.811  1.00 40.21      A16S
ATOM  11904  O2P G   A 576     162.742 103.090 -37.134  1.00 40.21      A16S
ATOM  11905  O5* G   A 576     161.132 101.910 -35.703  1.00 38.71      A16S
ATOM  11906  C5* G   A 576     161.140 100.627 -35.066  1.00 38.71      A16S
ATOM  11907  C4* G   A 576     160.766  99.546 -36.055  1.00 38.71      A16S
ATOM  11908  O4* G   A 576     159.347  99.262 -36.044  1.00 38.71      A16S
ATOM  11909  C1* G   A 576     158.850  99.273 -37.367  1.00 38.71      A16S
ATOM  11910  N9  G   A 576     157.511  99.845 -37.339  1.00 40.21      A16S
ATOM  11911  C4  G   A 576     156.350  99.254 -37.757  1.00 40.21      A16S
ATOM  11912  N3  G   A 576     156.232  98.018 -38.253  1.00 40.21      A16S
ATOM  11913  C2  G   A 576     154.986  97.739 -38.588  1.00 40.21      A16S
ATOM  11914  N2  G   A 576     154.695  96.538 -39.095  1.00 40.21      A16S
ATOM  11915  N1  G   A 576     153.939  98.615 -38.452  1.00 40.21      A16S
ATOM  11916  C6  G   A 576     154.048  99.905 -37.956  1.00 40.21      A16S
ATOM  11917  O6  G   A 576     153.055 100.643 -37.914  1.00 40.21      A16S
ATOM  11918  C5  G   A 576     155.373 100.199 -37.575  1.00 40.21      A16S
ATOM  11919  N7  G   A 576     155.905 101.354 -37.029  1.00 40.21      A16S
ATOM  11920  C8  G   A 576     157.173 101.097 -36.903  1.00 40.21      A16S
ATOM  11921  C2* G   A 576     159.832 100.117 -38.179  1.00 38.71      A16S
ATOM  11922  O2* G   A 576     159.821  99.723 -39.533  1.00 38.71      A16S
ATOM  11923  C3* G   A 576     161.155  99.793 -37.502  1.00 38.71      A16S
ATOM  11924  O3* G   A 576     161.637  98.586 -38.033  1.00 38.71      A16S
ATOM  11925  P   G   A 577     163.113  98.530 -38.630  1.00 30.55      A16S
ATOM  11926  O1P G   A 577     163.203  97.219 -39.323  1.00 15.54      A16S
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ATOM  11927  O2P G   A 577     164.026  98.852 -37.520  1.00 15.54      A16S
ATOM  11928  O5* G   A 577     163.151  99.689 -39.711  1.00 30.55      A16S
ATOM  11929  C5* G   A 577     164.045 100.772 -39.580  1.00 30.55      A16S
ATOM  11930  C4* G   A 577     164.323 101.339 -40.930  1.00 30.55      A16S
ATOM  11931  O4* G   A 577     165.027 100.347 -41.704  1.00 30.55      A16S
ATOM  11932  C1* G   A 577     164.603 100.389 -43.045  1.00 30.55      A16S
ATOM  11933  N9  G   A 577     164.040  99.093 -43.382  1.00 15.54      A16S
ATOM  11934  C4  G   A 577     163.557  98.734 -44.607  1.00 15.54      A16S
ATOM  11935  N3  G   A 577     163.560  99.510 -45.709  1.00 15.54      A16S
ATOM  11936  C2  G   A 577     162.960  98.920 -46.728  1.00 15.54      A16S
ATOM  11937  N2  G   A 577     162.860  99.562 -47.912  1.00 15.54      A16S
ATOM  11938  N1  G   A 577     162.415  97.666 -46.662  1.00 15.54      A16S
ATOM  11939  C6  G   A 577     162.421  96.852 -45.538  1.00 15.54      A16S
ATOM  11940  O6  G   A 577     161.913  95.732 -45.591  1.00 15.54      A16S
ATOM  11941  C5  G   A 577     163.051  97.474 -44.446  1.00 15.54      A16S
ATOM  11942  N7  G   A 577     163.255  97.023 -43.149  1.00 15.54      A16S
ATOM  11943  C8  G   A 577     163.848  98.017 -42.554  1.00 15.54      A16S
ATOM  11944  C2* G   A 577     163.548 101.482 -43.168  1.00 30.55      A16S
ATOM  11945  O2* G   A 577     164.111 102.659 -43.700  1.00 30.55      A16S
ATOM  11946  C3* G   A 577     163.072 101.604 -41.731  1.00 30.55      A16S
ATOM  11947  O3* G   A 577     162.459 102.845 -41.415  1.00 30.55      A16S
ATOM  11948  P   C   A 578     160.856 102.960 -41.495  1.00 36.09      A16S
ATOM  11949  O1P C   A 578     160.521 104.254 -40.856  1.00 21.30      A16S
ATOM  11950  O2P C   A 578     160.247 101.691 -40.978  1.00 21.30      A16S
ATOM  11951  O5* C   A 578     160.556 103.072 -43.060  1.00 36.09      A16S
ATOM  11952  C5* C   A 578     160.957 104.237 -43.790  1.00 36.09      A16S
ATOM  11953  C4* C   A 578     160.695 104.061 -45.262  1.00 36.09      A16S
ATOM  11954  O4* C   A 578     161.367 102.865 -45.724  1.00 36.09      A16S
ATOM  11955  C1* C   A 578     160.605 102.269 -46.761  1.00 36.09      A16S
ATOM  11956  N1  C   A 578     160.168 100.937 -46.329  1.00 21.30      A16S
ATOM  11957  C6  C   A 578     160.266 100.541 -45.025  1.00 21.30      A16S
ATOM  11958  C2  C   A 578     159.648 100.082 -47.281  1.00 21.30      A16S
ATOM  11959  O2  C   A 578     159.536 100.497 -48.433  1.00 21.30      A16S
ATOM  11960  N3  C   A 578     159.256  98.836 -46.926  1.00 21.30      A16S
ATOM  11961  C4  C   A 578     159.338  98.459 -45.652  1.00 21.30      A16S
ATOM  11962  N4  C   A 578     158.896  97.241 -45.324  1.00 21.30      A16S
ATOM  11963  C5  C   A 578     159.865  99.322 -44.645  1.00 21.30      A16S
ATOM  11964  C2* C   A 578     159.399 103.157 -47.023  1.00 36.09      A16S
ATOM  11965  O2* C   A 578     159.707 104.085 -48.041  1.00 36.09      A16S
ATOM  11966  C3* C   A 578     159.253 103.849 -45.683  1.00 36.09      A16S
ATOM  11967  O3* C   A 578     158.529 105.046 -45.831  1.00 36.09      A16S
ATOM  11968  P   G   A 579     156.953 105.037 -45.551  1.00 43.08      A16S
ATOM  11969  O1P G   A 579     156.561 106.463 -45.508  1.00 30.45      A16S
ATOM  11970  O2P G   A 579     156.708 104.154 -44.368  1.00 30.45      A16S
ATOM  11971  O5* G   A 579     156.293 104.328 -46.816  1.00 43.08      A16S
ATOM  11972  C5* G   A 579     156.226 104.986 -48.086  1.00 43.08      A16S
ATOM  11973  C4* G   A 579     156.039 103.970 -49.188  1.00 43.08      A16S
ATOM  11974  O4* G   A 579     156.765 102.768 -48.821  1.00 43.08      A16S
ATOM  11975  C1* G   A 579     156.171 101.644 -49.434  1.00 43.08      A16S
ATOM  11976  N9  G   A 579     156.007 100.598 -48.432  1.00 30.45      A16S
ATOM  11977  C4  G   A 579     155.598  99.305 -48.649  1.00 30.45      A16S
ATOM  11978  N3  G   A 579     155.247  98.771 -49.836  1.00 30.45      A16S
ATOM  11979  C2  G   A 579     154.888  97.503 -49.718  1.00 30.45      A16S
ATOM  11980  N2  G   A 579     154.515  96.811 -50.799  1.00 30.45      A16S
ATOM  11981  N1  G   A 579     154.869  96.822 -48.533  1.00 30.45      A16S
ATOM  11982  C6  G   A 579     155.217  97.354 -47.297  1.00 30.45      A16S
ATOM  11983  O6  G   A 579     155.139  96.653 -46.270  1.00 30.45      A16S
ATOM  11984  C5  G   A 579     155.617  98.703 -47.409  1.00 30.45      A16S
ATOM  11985  N7  G   A 579     156.032  99.594 -46.433  1.00 30.45      A16S
ATOM  11986  C8  G   A 579     156.248 100.705 -47.084  1.00 30.45      A16S
ATOM  11987  C2* G   A 579     154.902 102.114 -50.137  1.00 43.08      A16S
ATOM  11988  O2* G   A 579     155.242 102.293 -51.492  1.00 43.08      A16S
ATOM  11989  C3* G   A 579     154.635 103.460 -49.468  1.00 43.08      A16S
ATOM  11990  O3* G   A 579     153.957 104.339 -50.370  1.00 43.08      A16S
ATOM  11991  P   U   A 580     152.345 104.469 -50.317  1.00 34.63      A16S
ATOM  11992  O1P U   A 580     151.942 105.443 -51.377  1.00 36.44      A16S
ATOM  11993  O2P U   A 580     151.920 104.694 -48.902  1.00 36.44      A16S
ATOM  11994  O5* U   A 580     151.818 103.033 -50.743  1.00 34.63      A16S
ATOM  11995  C5* U   A 580     151.691 102.679 -52.102  1.00 34.63      A16S
ATOM  11996  C4* U   A 580     151.285 101.240 -52.212  1.00 34.63      A16S
ATOM  11997  O4* U   A 580     152.268 100.425 -51.528  1.00 34.63      A16S
ATOM  11998  C1* U   A 580     151.651  99.267 -51.006  1.00 34.63      A16S
ATOM  11999  N1  U   A 580     151.869  99.195 -49.551  1.00 36.44      A16S
ATOM  12000  C6  U   A 580     152.345 100.255 -48.817  1.00 36.44      A16S
ATOM  12001  C2  U   A 580     151.582  97.989 -48.939  1.00 36.44      A16S
ATOM  12002  O2  U   A 580     151.108  97.045 -49.542  1.00 36.44      A16S
ATOM  12003  N3  U   A 580     151.852  97.931 -47.599  1.00 36.44      A16S
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ATOM  12004  C4   U   A 580     152.345  98.936 -46.811  1.00 36.44      A16S
ATOM  12005  O4   U   A 580     152.598  98.701 -45.624  1.00 36.44      A16S
ATOM  12006  C5   U   A 580     152.582 100.172 -47.500  1.00 36.44      A16S
ATOM  12007  C2*  U   A 580     150.174  99.337 -51.367  1.00 34.63      A16S
ATOM  12008  O2*  U   A 580     149.992  98.587 -52.558  1.00 34.63      A16S
ATOM  12009  C3*  U   A 580     149.980 100.837 -51.548  1.00 34.63      A16S
ATOM  12010  O3*  U   A 580     148.840 101.149 -52.332  1.00 34.63      A16S
ATOM  12011  P    G   A 581     147.567 101.832 -51.635  1.00 42.92      A16S
ATOM  12012  O1P  G   A 581     146.694 102.243 -52.749  1.00 32.05      A16S
ATOM  12013  O2P  G   A 581     147.990 102.841 -50.632  1.00 32.05      A16S
ATOM  12014  O5*  G   A 581     146.880 100.636 -50.854  1.00 42.92      A16S
ATOM  12015  C5*  G   A 581     146.336  99.544 -51.583  1.00 42.92      A16S
ATOM  12016  C4*  G   A 581     146.419  98.286 -50.774  1.00 42.92      A16S
ATOM  12017  O4*  G   A 581     147.751  98.199 -50.236  1.00 42.92      A16S
ATOM  12018  C1*  G   A 581     147.713  97.585 -48.971  1.00 42.92      A16S
ATOM  12019  N9   G   A 581     148.263  98.513 -48.001  1.00 32.05      A16S
ATOM  12020  C4   G   A 581     148.625  98.184 -46.743  1.00 32.05      A16S
ATOM  12021  N3   G   A 581     148.547  96.956 -46.214  1.00 32.05      A16S
ATOM  12022  C2   G   A 581     148.943  96.937 -44.964  1.00 32.05      A16S
ATOM  12023  N2   G   A 581     148.905  95.781 -44.283  1.00 32.05      A16S
ATOM  12024  N1   G   A 581     149.397  98.044 -44.297  1.00 32.05      A16S
ATOM  12025  C6   G   A 581     149.495  99.318 -44.841  1.00 32.05      A16S
ATOM  12026  O6   G   A 581     149.931 100.245 -44.166  1.00 32.05      A16S
ATOM  12027  C5   G   A 581     149.058  99.349 -46.165  1.00 32.05      A16S
ATOM  12028  N7   G   A 581     148.974 100.407 -47.059  1.00 32.05      A16S
ATOM  12029  C8   G   A 581     148.502  99.862 -48.144  1.00 32.05      A16S
ATOM  12030  C2*  G   A 581     146.263  97.230 -48.655  1.00 42.92      A16S
ATOM  12031  O2*  G   A 581     146.089  95.861 -48.959  1.00 42.92      A16S
ATOM  12032  C3*  G   A 581     145.507  98.190 -49.568  1.00 42.92      A16S
ATOM  12033  O3*  G   A 581     144.262  97.666 -49.992  1.00 42.92      A16S
ATOM  12034  P    U   A 582     142.953  97.853 -49.078  1.00 29.79      A16S
ATOM  12035  O1P  U   A 582     141.829  97.942 -50.060  1.00 24.68      A16S
ATOM  12036  O2P  U   A 582     143.143  98.938 -48.080  1.00 24.68      A16S
ATOM  12037  O5*  U   A 582     142.868  96.479 -48.276  1.00 29.79      A16S
ATOM  12038  C5*  U   A 582     142.816  95.235 -48.976  1.00 29.79      A16S
ATOM  12039  C4*  U   A 582     142.600  94.102 -48.014  1.00 29.79      A16S
ATOM  12040  O4*  U   A 582     143.855  93.686 -47.438  1.00 29.79      A16S
ATOM  12041  C1*  U   A 582     143.635  93.223 -46.117  1.00 29.79      A16S
ATOM  12042  N1   U   A 582     144.351  94.109 -45.202  1.00 24.68      A16S
ATOM  12043  C6   U   A 582     144.707  95.369 -45.575  1.00 24.68      A16S
ATOM  12044  C2   U   A 582     144.660  93.623 -43.968  1.00 24.68      A16S
ATOM  12045  O2   U   A 582     144.340  92.523 -43.601  1.00 24.68      A16S
ATOM  12046  N3   U   A 582     145.369  94.475 -43.175  1.00 24.68      A16S
ATOM  12047  C4   U   A 582     145.787  95.738 -43.493  1.00 24.68      A16S
ATOM  12048  O4   U   A 582     146.522  96.343 -42.717  1.00 24.68      A16S
ATOM  12049  C5   U   A 582     145.397  96.179 -44.785  1.00 24.68      A16S
ATOM  12050  C2*  U   A 582     142.145  93.298 -45.837  1.00 29.79      A16S
ATOM  12051  O2*  U   A 582     141.569  92.036 -46.112  1.00 29.79      A16S
ATOM  12052  C3*  U   A 582     141.726  94.386 -46.807  1.00 29.79      A16S
ATOM  12053  O3*  U   A 582     140.352  94.352 -47.073  1.00 29.79      A16S
ATOM  12054  P    A   A 583     139.373  95.238 -46.173  1.00 37.14      A16S
ATOM  12055  O1P  A   A 583     138.033  95.092 -46.788  1.00 35.54      A16S
ATOM  12056  O2P  A   A 583     139.961  96.602 -45.993  1.00 35.54      A16S
ATOM  12057  O5*  A   A 583     139.381  94.496 -44.765  1.00 37.14      A16S
ATOM  12058  C5*  A   A 583     138.876  93.161 -44.643  1.00 37.14      A16S
ATOM  12059  C4*  A   A 583     139.200  92.609 -43.285  1.00 37.14      A16S
ATOM  12060  O4*  A   A 583     140.635  92.588 -43.122  1.00 37.14      A16S
ATOM  12061  C1*  A   A 583     140.977  92.933 -41.796  1.00 37.14      A16S
ATOM  12062  N9   A   A 583     141.788  94.142 -41.845  1.00 35.54      A16S
ATOM  12063  C4   A   A 583     142.579  94.625 -40.839  1.00 35.54      A16S
ATOM  12064  N3   A   A 583     142.793  94.072 -39.639  1.00 35.54      A16S
ATOM  12065  C2   A   A 583     143.611  94.820 -38.923  1.00 35.54      A16S
ATOM  12066  N1   A   A 583     144.182  95.976 -39.239  1.00 35.54      A16S
ATOM  12067  C6   A   A 583     143.931  96.508 -40.455  1.00 35.54      A16S
ATOM  12068  N6   A   A 583     144.471  97.686 -40.770  1.00 35.54      A16S
ATOM  12069  C5   A   A 583     143.108  95.802 -41.311  1.00 35.54      A16S
ATOM  12070  N7   A   A 583     142.690  96.048 -42.607  1.00 35.54      A16S
ATOM  12071  C8   A   A 583     141.909  95.034 -42.878  1.00 35.54      A16S
ATOM  12072  C2*  A   A 583     139.683  93.146 -41.017  1.00 37.14      A16S
ATOM  12073  O2*  A   A 583     139.396  91.983 -40.267  1.00 37.14      A16S
ATOM  12074  C3*  A   A 583     138.696  93.457 -42.141  1.00 37.14      A16S
ATOM  12075  O3*  A   A 583     137.347  93.143 -41.833  1.00 37.14      A16S
ATOM  12076  P    G   A 584     136.365  94.309 -41.326  1.00 34.07      A16S
ATOM  12077  O1P  G   A 584     135.105  93.662 -40.844  1.00 39.25      A16S
ATOM  12078  O2P  G   A 584     136.294  95.359 -42.382  1.00 39.25      A16S
ATOM  12079  O5*  G   A 584     137.111  94.907 -40.051  1.00 34.07      A16S
ATOM  12080  C5*  G   A 584     137.210  94.139 -38.850  1.00 34.07      A16S
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ATOM  12081  C4* G   A 584     138.130  94.813 -37.873  1.00 34.07      A16S
ATOM  12082  O4* G   A 584     139.422  94.985 -38.505  1.00 34.07      A16S
ATOM  12083  C1* G   A 584     140.041  96.162 -38.019  1.00 34.07      A16S
ATOM  12084  N9  G   A 584     140.344  97.037 -39.146  1.00 39.25      A16S
ATOM  12085  C4  G   A 584     141.161  98.143 -39.124  1.00 39.25      A16S
ATOM  12086  N3  G   A 584     141.842  98.600 -38.059  1.00 39.25      A16S
ATOM  12087  C2  G   A 584     142.517  99.695 -38.343  1.00 39.25      A16S
ATOM  12088  N2  G   A 584     143.235 100.303 -37.377  1.00 39.25      A16S
ATOM  12089  N1  G   A 584     142.533 100.281 -39.581  1.00 39.25      A16S
ATOM  12090  C6  G   A 584     141.842  99.818 -40.689  1.00 39.25      A16S
ATOM  12091  O6  G   A 584     141.919 100.418 -41.757  1.00 39.25      A16S
ATOM  12092  C5  G   A 584     141.111  98.661 -40.397  1.00 39.25      A16S
ATOM  12093  N7  G   A 584     140.293  97.893 -41.211  1.00 39.25      A16S
ATOM  12094  C8  G   A 584     139.866  96.937 -40.430  1.00 39.25      A16S
ATOM  12095  C2* G   A 584     139.088  96.801 -37.013  1.00 34.07      A16S
ATOM  12096  O2* G   A 584     139.463  96.372 -35.726  1.00 34.07      A16S
ATOM  12097  C3* G   A 584     137.749  96.215 -37.437  1.00 34.07      A16S
ATOM  12098  O3* G   A 584     136.791  96.241 -36.386  1.00 34.07      A16S
ATOM  12099  P   G   A 585     135.827  97.525 -36.232  1.00 36.91      A16S
ATOM  12100  O1P G   A 585     134.877  97.245 -35.123  1.00 35.12      A16S
ATOM  12101  O2P G   A 585     135.303  97.878 -37.574  1.00 35.12      A16S
ATOM  12102  O5* G   A 585     136.803  98.680 -35.728  1.00 36.91      A16S
ATOM  12103  C5* G   A 585     137.367  98.616 -34.400  1.00 36.91      A16S
ATOM  12104  C4* G   A 585     138.277  99.789 -34.142  1.00 36.91      A16S
ATOM  12105  O4* G   A 585     139.399  99.725 -35.045  1.00 36.91      A16S
ATOM  12106  C1* G   A 585     139.773 101.022 -35.443  1.00 36.91      A16S
ATOM  12107  N9  G   A 585     139.554 101.094 -36.877  1.00 35.12      A16S
ATOM  12108  C4  G   A 585     140.086 102.001 -37.765  1.00 35.12      A16S
ATOM  12109  N3  G   A 585     140.944 102.992 -37.469  1.00 35.12      A16S
ATOM  12110  C2  G   A 585     141.255 103.706 -38.534  1.00 35.12      A16S
ATOM  12111  N2  G   A 585     142.106 104.737 -38.427  1.00 35.12      A16S
ATOM  12112  N1  G   A 585     140.761 103.464 -39.781  1.00 35.12      A16S
ATOM  12113  C6  G   A 585     139.885 102.445 -40.107  1.00 35.12      A16S
ATOM  12114  O6  G   A 585     139.508 102.309 -41.271  1.00 35.12      A16S
ATOM  12115  C5  G   A 585     139.545 101.676 -38.984  1.00 35.12      A16S
ATOM  12116  N7  G   A 585     138.707 100.575 -38.875  1.00 35.12      A16S
ATOM  12117  C8  G   A 585     138.748 100.262 -37.610  1.00 35.12      A16S
ATOM  12118  C2* G   A 585     138.899 102.006 -34.669  1.00 36.91      A16S
ATOM  12119  O2* G   A 585     139.548 102.380 -33.474  1.00 36.91      A16S
ATOM  12120  C3* G   A 585     137.676 101.159 -34.376  1.00 36.91      A16S
ATOM  12121  O3* G   A 585     136.968 101.618 -33.236  1.00 36.91      A16S
ATOM  12122  P   C   A 586     135.607 102.447 -33.438  1.00 28.36      A16S
ATOM  12123  O1P C   A 586     135.125 102.744 -32.064  1.00 24.73      A16S
ATOM  12124  O2P C   A 586     134.732 101.719 -34.387  1.00 24.73      A16S
ATOM  12125  O5* C   A 586     136.099 103.769 -34.169  1.00 28.36      A16S
ATOM  12126  C5* C   A 586     137.029 104.622 -33.508  1.00 28.36      A16S
ATOM  12127  C4* C   A 586     137.490 105.724 -34.418  1.00 28.36      A16S
ATOM  12128  O4* C   A 586     138.368 105.201 -35.443  1.00 28.36      A16S
ATOM  12129  C1* C   A 586     138.323 106.057 -36.567  1.00 28.36      A16S
ATOM  12130  N1  C   A 586     137.898 105.308 -37.744  1.00 24.73      A16S
ATOM  12131  C6  C   A 586     137.239 104.120 -37.638  1.00 24.73      A16S
ATOM  12132  C2  C   A 586     138.151 105.867 -38.999  1.00 24.73      A16S
ATOM  12133  O2  C   A 586     138.769 106.951 -39.061  1.00 24.73      A16S
ATOM  12134  N3  C   A 586     137.710 105.228 -40.105  1.00 24.73      A16S
ATOM  12135  C4  C   A 586     137.035 104.088 -39.987  1.00 24.73      A16S
ATOM  12136  N4  C   A 586     136.590 103.515 -41.095  1.00 24.73      A16S
ATOM  12137  C5  C   A 586     136.785 103.488 -38.725  1.00 24.73      A16S
ATOM  12138  C2* C   A 586     137.284 107.137 -36.295  1.00 28.36      A16S
ATOM  12139  O2* C   A 586     137.954 108.293 -35.862  1.00 28.36      A16S
ATOM  12140  C3* C   A 586     136.442 106.483 -35.210  1.00 28.36      A16S
ATOM  12141  O3* C   A 586     135.709 107.434 -34.460  1.00 28.36      A16S
ATOM  12142  P   G   A 587     134.267 107.883 -34.989  1.00 40.37      A16S
ATOM  12143  O1P G   A 587     133.726 108.849 -34.018  1.00 30.95      A16S
ATOM  12144  O2P G   A 587     133.479 106.676 -35.334  1.00 30.95      A16S
ATOM  12145  O5* G   A 587     134.595 108.650 -36.339  1.00 40.37      A16S
ATOM  12146  C5* G   A 587     135.435 109.801 -36.319  1.00 40.37      A16S
ATOM  12147  C4* G   A 587     135.281 110.577 -37.595  1.00 40.37      A16S
ATOM  12148  O4* G   A 587     135.736 109.758 -38.706  1.00 40.37      A16S
ATOM  12149  C1* G   A 587     134.711 109.661 -39.662  1.00 40.37      A16S
ATOM  12150  N9  G   A 587     134.690 108.314 -40.200  1.00 30.95      A16S
ATOM  12151  C4  G   A 587     134.661 107.972 -41.520  1.00 30.95      A16S
ATOM  12152  N3  G   A 587     134.765 108.818 -42.550  1.00 30.95      A16S
ATOM  12153  C2  G   A 587     134.583 108.213 -43.702  1.00 30.95      A16S
ATOM  12154  N2  G   A 587     134.614 108.916 -44.833  1.00 30.95      A16S
ATOM  12155  N1  G   A 587     134.342 106.882 -43.834  1.00 30.95      A16S
ATOM  12156  C6  G   A 587     134.236 105.985 -42.783  1.00 30.95      A16S
ATOM  12157  O6  G   A 587     133.984 104.790 -43.010  1.00 30.95      A16S
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ATOM  12158  C5  G   A 587     134.427 106.623 -41.541  1.00 30.95      A16S
ATOM  12159  N7  G   A 587     134.405 106.107 -40.256  1.00 30.95      A16S
ATOM  12160  C8  G   A 587     134.590 107.149 -39.493  1.00 30.95      A16S
ATOM  12161  C2* G   A 587     133.407 109.935 -38.910  1.00 40.37      A16S
ATOM  12162  O2* G   A 587     132.364 110.364 -39.770  1.00 40.37      A16S
ATOM  12163  C3* G   A 587     133.848 110.986 -37.908  1.00 40.37      A16S
ATOM  12164  O3* G   A 587     133.829 112.244 -38.555  1.00 40.37      A16S
ATOM  12165  P   G   A 588     132.541 113.179 -38.432  1.00 43.78      A16S
ATOM  12166  O1P G   A 588     132.642 113.895 -37.136  1.00 55.00      A16S
ATOM  12167  O2P G   A 588     131.318 112.400 -38.750  1.00 55.00      A16S
ATOM  12168  O5* G   A 588     132.760 114.226 -39.601  1.00 43.78      A16S
ATOM  12169  C5* G   A 588     133.816 115.180 -39.521  1.00 43.78      A16S
ATOM  12170  C4* G   A 588     133.620 116.258 -40.550  1.00 43.78      A16S
ATOM  12171  O4* G   A 588     133.786 115.737 -41.890  1.00 43.78      A16S
ATOM  12172  C1* G   A 588     133.044 116.526 -42.788  1.00 43.78      A16S
ATOM  12173  N9  G   A 588     132.258 115.657 -43.653  1.00 55.00      A16S
ATOM  12174  C4  G   A 588     131.379 116.058 -44.635  1.00 55.00      A16S
ATOM  12175  N3  G   A 588     131.052 117.331 -44.939  1.00 55.00      A16S
ATOM  12176  C2  G   A 588     130.193 117.390 -45.943  1.00 55.00      A16S
ATOM  12177  N2  G   A 588     129.750 118.576 -46.373  1.00 55.00      A16S
ATOM  12178  N1  G   A 588     129.704 116.292 -46.595  1.00 55.00      A16S
ATOM  12179  C6  G   A 588     130.032 114.978 -46.298  1.00 55.00      A16S
ATOM  12180  O6  G   A 588     129.543 114.063 -46.953  1.00 55.00      A16S
ATOM  12181  C5  G   A 588     130.939 114.896 -45.225  1.00 55.00      A16S
ATOM  12182  N7  G   A 588     131.506 113.787 -44.615  1.00 55.00      A16S
ATOM  12183  C8  G   A 588     132.272 114.285 -43.682  1.00 55.00      A16S
ATOM  12184  C2* G   A 588     132.234 117.523 -41.969  1.00 43.78      A16S
ATOM  12185  O2* G   A 588     132.968 118.728 -41.951  1.00 43.78      A16S
ATOM  12186  C3* G   A 588     132.249 116.885 -40.593  1.00 43.78      A16S
ATOM  12187  O3* G   A 588     132.122 117.846 -39.575  1.00 43.78      A16S
ATOM  12188  P   C   A 589     130.723 117.986 -38.813  1.00 54.97      A16S
ATOM  12189  O1P C   A 589     130.968 118.857 -37.621  1.00 42.15      A16S
ATOM  12190  O2P C   A 589     130.147 116.619 -38.630  1.00 42.15      A16S
ATOM  12191  O5* C   A 589     129.803 118.762 -39.854  1.00 54.97      A16S
ATOM  12192  C5* C   A 589     129.947 120.166 -40.036  1.00 54.97      A16S
ATOM  12193  C4* C   A 589     128.923 120.672 -41.009  1.00 54.97      A16S
ATOM  12194  O4* C   A 589     129.179 120.128 -42.321  1.00 54.97      A16S
ATOM  12195  C1* C   A 589     127.963 120.038 -43.034  1.00 54.97      A16S
ATOM  12196  N1  C   A 589     127.774 118.660 -43.476  1.00 42.15      A16S
ATOM  12197  C6  C   A 589     128.199 117.608 -42.717  1.00 42.15      A16S
ATOM  12198  C2  C   A 589     127.146 118.444 -44.680  1.00 42.15      A16S
ATOM  12199  O2  C   A 589     126.793 119.429 -45.344  1.00 42.15      A16S
ATOM  12200  N3  C   A 589     126.938 117.175 -45.103  1.00 42.15      A16S
ATOM  12201  C4  C   A 589     127.354 116.150 -44.358  1.00 42.15      A16S
ATOM  12202  N4  C   A 589     127.140 114.913 -44.804  1.00 42.15      A16S
ATOM  12203  C5  C   A 589     128.012 116.346 -43.120  1.00 42.15      A16S
ATOM  12204  C2* C   A 589     126.835 120.491 -42.114  1.00 54.97      A16S
ATOM  12205  O2* C   A 589     126.533 121.837 -42.416  1.00 54.97      A16S
ATOM  12206  C3* C   A 589     127.470 120.323 -40.741  1.00 54.97      A16S
ATOM  12207  O3* C   A 589     126.892 121.216 -39.806  1.00 54.97      A16S
ATOM  12208  P   C   A 590     125.607 120.760 -38.968  1.00 46.51      A16S
ATOM  12209  O1P C   A 590     125.308 121.876 -38.043  1.00 44.60      A16S
ATOM  12210  O2P C   A 590     125.855 119.414 -38.422  1.00 44.60      A16S
ATOM  12211  O5* C   A 590     124.461 120.638 -40.068  1.00 46.51      A16S
ATOM  12212  C5* C   A 590     123.899 121.819 -40.644  1.00 46.51      A16S
ATOM  12213  C4* C   A 590     122.774 121.484 -41.592  1.00 46.51      A16S
ATOM  12214  O4* C   A 590     123.306 120.814 -42.759  1.00 46.51      A16S
ATOM  12215  C1* C   A 590     122.281 120.038 -43.352  1.00 46.51      A16S
ATOM  12216  N1  C   A 590     122.697 118.639 -43.440  1.00 44.60      A16S
ATOM  12217  C6  C   A 590     123.744 118.145 -42.722  1.00 44.60      A16S
ATOM  12218  C2  C   A 590     121.966 117.812 -44.267  1.00 44.60      A16S
ATOM  12219  O2  C   A 590     121.034 118.306 -44.919  1.00 44.60      A16S
ATOM  12220  N3  C   A 590     122.276 116.505 -44.346  1.00 44.60      A16S
ATOM  12221  C4  C   A 590     123.284 116.024 -43.639  1.00 44.60      A16S
ATOM  12222  N4  C   A 590     123.548 114.734 -43.750  1.00 44.60      A16S
ATOM  12223  C5  C   A 590     124.067 116.850 -42.789  1.00 44.60      A16S
ATOM  12224  C2* C   A 590     121.040 120.138 -42.470  1.00 46.51      A16S
ATOM  12225  O2* C   A 590     120.161 121.091 -43.034  1.00 46.51      A16S
ATOM  12226  C3* C   A 590     121.647 120.562 -41.137  1.00 46.51      A16S
ATOM  12227  O3* C   A 590     120.668 121.172 -40.303  1.00 46.51      A16S
ATOM  12228  P   U   A 591     119.806 120.255 -39.298  1.00 52.14      A16S
ATOM  12229  O1P U   A 591     118.983 121.173 -38.465  1.00 66.32      A16S
ATOM  12230  O2P U   A 591     120.713 119.295 -38.640  1.00 66.32      A16S
ATOM  12231  O5* U   A 591     118.842 119.427 -40.260  1.00 52.14      A16S
ATOM  12232  C5* U   A 591     117.804 120.093 -41.006  1.00 52.14      A16S
ATOM  12233  C4* U   A 591     116.949 119.094 -41.751  1.00 52.14      A16S
ATOM  12234  O4* U   A 591     117.754 118.388 -42.735  1.00 52.14      A16S
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ATOM  12235  C1* U   A 591     117.240 117.076 -42.911  1.00 52.14      A16S
ATOM  12236  N1  U   A 591     118.318 116.095 -42.709  1.00 66.32      A16S
ATOM  12237  C6  U   A 591     119.384 116.346 -41.878  1.00 66.32      A16S
ATOM  12238  C2  U   A 591     118.220 114.896 -43.394  1.00 66.32      A16S
ATOM  12239  O2  U   A 591     117.291 114.629 -44.132  1.00 66.32      A16S
ATOM  12240  N3  U   A 591     119.251 114.019 -43.182  1.00 66.32      A16S
ATOM  12241  C4  U   A 591     120.346 114.206 -42.371  1.00 66.32      A16S
ATOM  12242  O4  U   A 591     121.192 113.311 -42.281  1.00 66.32      A16S
ATOM  12243  C5  U   A 591     120.375 115.466 -41.690  1.00 66.32      A16S
ATOM  12244  C2* U   A 591     116.063 116.888 -41.952  1.00 52.14      A16S
ATOM  12245  O2* U   A 591     114.848 117.045 -42.657  1.00 52.14      A16S
ATOM  12246  C3* U   A 591     116.311 117.989 -40.922  1.00 52.14      A16S
ATOM  12247  O3* U   A 591     115.111 118.397 -40.265  1.00 52.14      A16S
ATOM  12248  P   G   A 592     114.583 117.561 -38.987  1.00 57.91      A16S
ATOM  12249  O1P G   A 592     113.365 118.254 -38.480  1.00 57.75      A16S
ATOM  12250  O2P G   A 592     115.727 117.318 -38.059  1.00 57.75      A16S
ATOM  12251  O5* G   A 592     114.132 116.156 -39.596  1.00 57.91      A16S
ATOM  12252  C5* G   A 592     112.972 116.086 -40.427  1.00 57.91      A16S
ATOM  12253  C4* G   A 592     112.821 114.719 -41.039  1.00 57.91      A16S
ATOM  12254  O4* G   A 592     113.939 114.417 -41.909  1.00 57.91      A16S
ATOM  12255  C1* G   A 592     114.120 113.010 -41.971  1.00 57.91      A16S
ATOM  12256  N9  G   A 592     115.457 112.662 -41.490  1.00 57.75      A16S
ATOM  12257  C4  G   A 592     116.082 111.459 -41.683  1.00 57.75      A16S
ATOM  12258  N3  G   A 592     115.598 110.440 -42.404  1.00 57.75      A16S
ATOM  12259  C2  G   A 592     116.379 109.393 -42.355  1.00 57.75      A16S
ATOM  12260  N2  G   A 592     116.029 108.286 -43.015  1.00 57.75      A16S
ATOM  12261  N1  G   A 592     117.555 109.351 -41.653  1.00 57.75      A16S
ATOM  12262  C6  G   A 592     118.074 110.397 -40.899  1.00 57.75      A16S
ATOM  12263  O6  G   A 592     119.139 110.251 -40.280  1.00 57.75      A16S
ATOM  12264  C5  G   A 592     117.243 111.525 -40.952  1.00 57.75      A16S
ATOM  12265  N7  G   A 592     117.377 112.766 -40.349  1.00 57.75      A16S
ATOM  12266  C8  G   A 592     116.303 113.416 -40.708  1.00 57.75      A16S
ATOM  12267  C2* G   A 592     113.077 112.379 -41.048  1.00 57.91      A16S
ATOM  12268  O2* G   A 592     111.961 111.964 -41.798  1.00 57.91      A16S
ATOM  12269  C3* G   A 592     112.763 113.531 -40.107  1.00 57.91      A16S
ATOM  12270  O3* G   A 592     111.495 113.376 -39.527  1.00 57.91      A16S
ATOM  12271  P   G   A 593     111.344 112.515 -38.179  1.00 58.91      A16S
ATOM  12272  O1P G   A 593     109.915 112.696 -37.783  1.00 56.76      A16S
ATOM  12273  O2P G   A 593     112.433 112.848 -37.201  1.00 56.76      A16S
ATOM  12274  O5* G   A 593     111.542 111.009 -38.661  1.00 58.91      A16S
ATOM  12275  C5* G   A 593     110.541 110.386 -39.452  1.00 58.91      A16S
ATOM  12276  C4* G   A 593     110.893 108.953 -39.724  1.00 58.91      A16S
ATOM  12277  O4* G   A 593     112.089 108.888 -40.535  1.00 58.91      A16S
ATOM  12278  C1* G   A 593     112.794 107.693 -40.241  1.00 58.91      A16S
ATOM  12279  N9  G   A 593     114.111 108.048 -39.723  1.00 56.76      A16S
ATOM  12280  C4  G   A 593     115.185 107.209 -39.584  1.00 56.76      A16S
ATOM  12281  N3  G   A 593     115.219 105.910 -39.928  1.00 56.76      A16S
ATOM  12282  C2  G   A 593     116.394 105.367 -39.680  1.00 56.76      A16S
ATOM  12283  N2  G   A 593     116.610 104.078 -39.986  1.00 56.76      A16S
ATOM  12284  N1  G   A 593     117.447 106.048 -39.120  1.00 56.76      A16S
ATOM  12285  C6  G   A 593     117.428 107.385 -38.743  1.00 56.76      A16S
ATOM  12286  O6  G   A 593     118.428 107.900 -38.221  1.00 56.76      A16S
ATOM  12287  C5  G   A 593     116.180 107.979 -39.023  1.00 56.76      A16S
ATOM  12288  N7  G   A 593     115.744 109.279 -38.821  1.00 56.76      A16S
ATOM  12289  C8  G   A 593     114.515 109.275 -39.255  1.00 56.76      A16S
ATOM  12290  C2* G   A 593     111.982 106.933 -39.192  1.00 58.91      A16S
ATOM  12291  O2* G   A 593     111.146 105.986 -39.828  1.00 58.91      A16S
ATOM  12292  C3* G   A 593     111.196 108.061 -38.539  1.00 58.91      A16S
ATOM  12293  O3* G   A 593     110.034 107.577 -37.895  1.00 58.91      A16S
ATOM  12294  P   G   A 594     110.070 107.292 -36.312  1.00 67.88      A16S
ATOM  12295  O1P G   A 594     108.672 106.971 -35.906  1.00 48.47      A16S
ATOM  12296  O2P G   A 594     110.808 108.400 -35.618  1.00 48.47      A16S
ATOM  12297  O5* G   A 594     110.933 105.961 -36.181  1.00 67.88      A16S
ATOM  12298  C5* G   A 594     110.604 104.785 -36.940  1.00 67.88      A16S
ATOM  12299  C4* G   A 594     111.748 103.798 -36.892  1.00 67.88      A16S
ATOM  12300  O4* G   A 594     112.902 104.336 -37.591  1.00 67.88      A16S
ATOM  12301  C1* G   A 594     114.094 103.921 -36.944  1.00 67.88      A16S
ATOM  12302  N9  G   A 594     114.852 105.105 -36.531  1.00 48.47      A16S
ATOM  12303  C4  G   A 594     116.200 105.150 -36.249  1.00 48.47      A16S
ATOM  12304  N3  G   A 594     117.068 104.121 -36.354  1.00 48.47      A16S
ATOM  12305  C2  G   A 594     118.282 104.464 -35.989  1.00 48.47      A16S
ATOM  12306  N2  G   A 594     119.262 103.565 -36.023  1.00 48.47      A16S
ATOM  12307  N1  G   A 594     118.627 105.716 -35.560  1.00 48.47      A16S
ATOM  12308  C6  G   A 594     117.759 106.793 -35.443  1.00 48.47      A16S
ATOM  12309  O6  G   A 594     118.181 107.882 -35.037  1.00 48.47      A16S
ATOM  12310  C5  G   A 594     116.445 106.442 -35.830  1.00 48.47      A16S
ATOM  12311  N7  G   A 594     115.285 107.205 -35.875  1.00 48.47      A16S
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ATOM  12312  C8  G   A 594     114.371 106.377 -36.305  1.00 48.47      A16S
ATOM  12313  C2* G   A 594     113.694 103.030 -35.763  1.00 67.88      A16S
ATOM  12314  O2* G   A 594     113.762 101.671 -36.136  1.00 67.88      A16S
ATOM  12315  C3* G   A 594     112.261 103.472 -35.501  1.00 67.88      A16S
ATOM  12316  O3* G   A 594     111.493 102.441 -34.903  1.00 67.88      A16S
ATOM  12317  P   G   A 595     111.215 102.473 -33.322  1.00 47.67      A16S
ATOM  12318  O1P G   A 595     110.600 101.169 -32.985  1.00 57.60      A16S
ATOM  12319  O2P G   A 595     110.525 103.732 -32.946  1.00 57.60      A16S
ATOM  12320  O5* G   A 595     112.668 102.501 -32.677  1.00 47.67      A16S
ATOM  12321  C5* G   A 595     113.619 101.451 -32.952  1.00 47.67      A16S
ATOM  12322  C4* G   A 595     114.900 101.704 -32.197  1.00 47.67      A16S
ATOM  12323  O4* G   A 595     115.406 102.996 -32.611  1.00 47.67      A16S
ATOM  12324  C1* G   A 595     115.564 103.828 -31.490  1.00 47.67      A16S
ATOM  12325  N9  G   A 595     115.157 105.175 -31.869  1.00 57.60      A16S
ATOM  12326  C4  G   A 595     115.935 106.313 -31.878  1.00 57.60      A16S
ATOM  12327  N3  G   A 595     117.252 106.387 -31.588  1.00 57.60      A16S
ATOM  12328  C2  G   A 595     117.691 107.632 -31.633  1.00 57.60      A16S
ATOM  12329  N2  G   A 595     118.964 107.905 -31.376  1.00 57.60      A16S
ATOM  12330  N1  G   A 595     116.910 108.708 -31.934  1.00 57.60      A16S
ATOM  12331  C6  G   A 595     115.562 108.649 -32.242  1.00 57.60      A16S
ATOM  12332  O6  G   A 595     114.950 109.682 -32.494  1.00 57.60      A16S
ATOM  12333  C5  G   A 595     115.078 107.333 -32.208  1.00 57.60      A16S
ATOM  12334  N7  G   A 595     113.810 106.848 -32.451  1.00 57.60      A16S
ATOM  12335  C8  G   A 595     113.906 105.565 -32.249  1.00 57.60      A16S
ATOM  12336  C2* G   A 595     114.701 103.234 -30.376  1.00 47.67      A16S
ATOM  12337  O2* G   A 595     115.269 103.511 -29.119  1.00 47.67      A16S
ATOM  12338  C3* G   A 595     114.765 101.745 -30.677  1.00 47.67      A16S
ATOM  12339  O3* G   A 595     115.945 101.229 -30.077  1.00 47.67      A16S
ATOM  12340  P   C   A 596     116.002  99.702 -29.558  1.00 46.32      A16S
ATOM  12341  O1P C   A 596     115.160  98.837 -30.431  1.00 56.17      A16S
ATOM  12342  O2P C   A 596     115.780  99.700 -28.082  1.00 56.17      A16S
ATOM  12343  O5* C   A 596     117.519  99.324 -29.840  1.00 46.32      A16S
ATOM  12344  C5* C   A 596     117.917  97.983 -30.120  1.00 46.32      A16S
ATOM  12345  C4* C   A 596     119.417  97.918 -30.248  1.00 46.32      A16S
ATOM  12346  O4* C   A 596     119.819  98.380 -31.562  1.00 46.32      A16S
ATOM  12347  C1* C   A 596     120.966  99.209 -31.452  1.00 46.32      A16S
ATOM  12348  N1  C   A 596     120.581 100.589 -31.863  1.00 56.17      A16S
ATOM  12349  C6  C   A 596     119.317 100.859 -32.314  1.00 56.17      A16S
ATOM  12350  C2  C   A 596     121.520 101.626 -31.758  1.00 56.17      A16S
ATOM  12351  O2  C   A 596     122.671 101.362 -31.379  1.00 56.17      A16S
ATOM  12352  N3  C   A 596     121.145 102.889 -32.068  1.00 56.17      A16S
ATOM  12353  C4  C   A 596     119.898 103.138 -32.466  1.00 56.17      A16S
ATOM  12354  N4  C   A 596     119.558 104.403 -32.710  1.00 56.17      A16S
ATOM  12355  C5  C   A 596     118.940 102.105 -32.618  1.00 56.17      A16S
ATOM  12356  C2* C   A 596     121.438  99.122 -29.995  1.00 46.32      A16S
ATOM  12357  O2* C   A 596     122.370  98.072 -29.847  1.00 46.32      A16S
ATOM  12358  C3* C   A 596     120.140  98.821 -29.270  1.00 46.32      A16S
ATOM  12359  O3* C   A 596     120.330  98.198 -28.016  1.00 46.32      A16S
ATOM  12360  P   G   A 597     120.237  99.081 -26.677  1.00 44.44      A16S
ATOM  12361  O1P G   A 597     120.144  98.161 -25.510  1.00 53.47      A16S
ATOM  12362  O2P G   A 597     119.187 100.121 -26.888  1.00 53.47      A16S
ATOM  12363  O5* G   A 597     121.665  99.780 -26.595  1.00 44.44      A16S
ATOM  12364  C5* G   A 597     122.862  99.009 -26.802  1.00 44.44      A16S
ATOM  12365  C4* G   A 597     124.026  99.910 -27.099  1.00 44.44      A16S
ATOM  12366  O4* G   A 597     123.785 100.636 -28.327  1.00 44.44      A16S
ATOM  12367  C1* G   A 597     124.308 101.951 -28.218  1.00 44.44      A16S
ATOM  12368  N9  G   A 597     123.200 102.902 -28.327  1.00 53.47      A16S
ATOM  12369  C4  G   A 597     123.275 104.277 -28.239  1.00 53.47      A16S
ATOM  12370  N3  G   A 597     124.402 105.008 -28.087  1.00 53.47      A16S
ATOM  12371  C2  G   A 597     124.144 106.303 -28.011  1.00 53.47      A16S
ATOM  12372  N2  G   A 597     125.148 107.178 -27.878  1.00 53.47      A16S
ATOM  12373  N1  G   A 597     122.881 106.833 -28.066  1.00 53.47      A16S
ATOM  12374  C6  G   A 597     121.712 106.098 -28.222  1.00 53.47      A16S
ATOM  12375  O6  G   A 597     120.621 106.672 -28.255  1.00 53.47      A16S
ATOM  12376  C5  G   A 597     121.974 104.717 -28.321  1.00 53.47      A16S
ATOM  12377  N7  G   A 597     121.103 103.652 -28.493  1.00 53.47      A16S
ATOM  12378  C8  G   A 597     121.873 102.601 -28.499  1.00 53.47      A16S
ATOM  12379  C2* G   A 597     125.015 102.039 -26.865  1.00 44.44      A16S
ATOM  12380  O2* G   A 597     126.379 101.719 -27.065  1.00 44.44      A16S
ATOM  12381  C3* G   A 597     124.274 100.981 -26.067  1.00 44.44      A16S
ATOM  12382  O3* G   A 597     125.039 100.466 -25.005  1.00 44.44      A16S
ATOM  12383  P   U   A 598     124.634 100.838 -23.506  1.00 39.13      A16S
ATOM  12384  O1P U   A 598     123.311 100.198 -23.269  1.00 36.27      A16S
ATOM  12385  O2P U   A 598     125.746 100.584 -22.558  1.00 36.27      A16S
ATOM  12386  O5* U   A 598     124.433 102.412 -23.603  1.00 39.13      A16S
ATOM  12387  C5* U   A 598     125.555 103.293 -23.661  1.00 39.13      A16S
ATOM  12388  C4* U   A 598     125.087 104.720 -23.581  1.00 39.13      A16S
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ATOM  12389  O4*  U   A 598     124.350 105.032 -24.786  1.00 39.13      A16S
ATOM  12390  C1*  U   A 598     123.274 105.896 -24.473  1.00 39.13      A16S
ATOM  12391  N1   U   A 598     122.010 105.256 -24.866  1.00 36.27      A16S
ATOM  12392  C6   U   A 598     121.922 103.909 -25.087  1.00 36.27      A16S
ATOM  12393  C2   U   A 598     120.904 106.069 -24.986  1.00 36.27      A16S
ATOM  12394  O2   U   A 598     120.951 107.282 -24.820  1.00 36.27      A16S
ATOM  12395  N3   U   A 598     119.739 105.417 -25.308  1.00 36.27      A16S
ATOM  12396  C4   U   A 598     119.580 104.067 -25.535  1.00 36.27      A16S
ATOM  12397  O4   U   A 598     118.475 103.630 -25.869  1.00 36.27      A16S
ATOM  12398  C5   U   A 598     120.779 103.304 -25.407  1.00 36.27      A16S
ATOM  12399  C2*  U   A 598     123.325 106.189 -22.975  1.00 39.13      A16S
ATOM  12400  O2*  U   A 598     123.981 107.415 -22.790  1.00 39.13      A16S
ATOM  12401  C3*  U   A 598     124.114 105.001 -22.453  1.00 39.13      A16S
ATOM  12402  O3*  U   A 598     124.761 105.255 -21.219  1.00 39.13      A16S
ATOM  12403  P    C   A 599     124.009 104.876 -19.849  1.00 33.34      A16S
ATOM  12404  O1P  C   A 599     123.349 103.564 -20.066  1.00 49.05      A16S
ATOM  12405  O2P  C   A 599     124.874 105.064 -18.655  1.00 49.05      A16S
ATOM  12406  O5*  C   A 599     122.866 105.971 -19.772  1.00 33.34      A16S
ATOM  12407  C5*  C   A 599     123.177 107.351 -19.537  1.00 33.34      A16S
ATOM  12408  C4*  C   A 599     121.904 108.159 -19.535  1.00 33.34      A16S
ATOM  12409  O4*  C   A 599     121.290 108.077 -20.845  1.00 33.34      A16S
ATOM  12410  C1*  C   A 599     119.882 108.108 -20.712  1.00 33.34      A16S
ATOM  12411  N1   C   A 599     119.316 106.881 -21.292  1.00 49.05      A16S
ATOM  12412  C6   C   A 599     120.109 105.812 -21.579  1.00 49.05      A16S
ATOM  12413  C2   C   A 599     117.942 106.826 -21.543  1.00 49.05      A16S
ATOM  12414  O2   C   A 599     117.244 107.822 -21.297  1.00 49.05      A16S
ATOM  12415  N3   C   A 599     117.413 105.701 -22.054  1.00 49.05      A16S
ATOM  12416  C4   C   A 599     118.200 104.671 -22.337  1.00 49.05      A16S
ATOM  12417  N4   C   A 599     117.647 103.594 -22.868  1.00 49.05      A16S
ATOM  12418  C5   C   A 599     119.596 104.701 -22.099  1.00 49.05      A16S
ATOM  12419  C2*  C   A 599     119.563 108.245 -19.231  1.00 33.34      A16S
ATOM  12420  O2*  C   A 599     119.446 109.620 -18.976  1.00 33.34      A16S
ATOM  12421  C3*  C   A 599     120.812 107.670 -18.600  1.00 33.34      A16S
ATOM  12422  O3*  C   A 599     120.997 108.166 -17.304  1.00 33.34      A16S
ATOM  12423  P    C   A 600     120.323 107.403 -16.070  1.00 41.60      A16S
ATOM  12424  O1P  C   A 600     120.514 105.939 -16.243  1.00 40.35      A16S
ATOM  12425  O2P  C   A 600     120.830 108.083 -14.841  1.00 40.35      A16S
ATOM  12426  O5*  C   A 600     118.768 107.707 -16.240  1.00 41.60      A16S
ATOM  12427  C5*  C   A 600     118.264 109.046 -16.075  1.00 41.60      A16S
ATOM  12428  C4*  C   A 600     116.768 109.075 -16.239  1.00 41.60      A16S
ATOM  12429  O4*  C   A 600     116.412 108.714 -17.593  1.00 41.60      A16S
ATOM  12430  C1*  C   A 600     115.170 108.040 -17.593  1.00 41.60      A16S
ATOM  12431  N1   C   A 600     115.372 106.708 -18.149  1.00 40.35      A16S
ATOM  12432  C6   C   A 600     116.564 106.059 -18.012  1.00 40.35      A16S
ATOM  12433  C2   C   A 600     114.321 106.107 -18.811  1.00 40.35      A16S
ATOM  12434  O2   C   A 600     113.260 106.729 -18.920  1.00 40.35      A16S
ATOM  12435  N3   C   A 600     114.481 104.865 -19.321  1.00 40.35      A16S
ATOM  12436  C4   C   A 600     115.651 104.243 -19.192  1.00 40.35      A16S
ATOM  12437  N4   C   A 600     115.783 103.042 -19.733  1.00 40.35      A16S
ATOM  12438  C5   C   A 600     116.742 104.834 -18.510  1.00 40.35      A16S
ATOM  12439  C2*  C   A 600     114.697 107.928 -16.147  1.00 41.60      A16S
ATOM  12440  O2*  C   A 600     113.771 108.948 -15.834  1.00 41.60      A16S
ATOM  12441  C3*  C   A 600     116.002 108.083 -15.396  1.00 41.60      A16S
ATOM  12442  O3*  C   A 600     115.793 108.518 -14.079  1.00 41.60      A16S
ATOM  12443  P    C   A 601     115.696 107.425 -12.918  1.00 52.63      A16S
ATOM  12444  O1P  C   A 601     116.018 108.131 -11.647  1.00 55.70      A16S
ATOM  12445  O2P  C   A 601     116.482 106.216 -13.316  1.00 55.70      A16S
ATOM  12446  O5*  C   A 601     114.160 107.024 -12.950  1.00 52.63      A16S
ATOM  12447  C5*  C   A 601     113.158 108.008 -12.709  1.00 52.63      A16S
ATOM  12448  C4*  C   A 601     111.801 107.428 -12.952  1.00 52.63      A16S
ATOM  12449  O4*  C   A 601     111.625 107.157 -14.363  1.00 52.63      A16S
ATOM  12450  C1*  C   A 601     110.829 105.997 -14.525  1.00 52.63      A16S
ATOM  12451  N1   C   A 601     111.599 104.980 -15.265  1.00 55.70      A16S
ATOM  12452  C6   C   A 601     112.961 105.039 -15.341  1.00 55.70      A16S
ATOM  12453  C2   C   A 601     110.909 103.932 -15.876  1.00 55.70      A16S
ATOM  12454  O2   C   A 601     109.677 103.913 -15.817  1.00 55.70      A16S
ATOM  12455  N3   C   A 601     111.597 102.967 -16.513  1.00 55.70      A16S
ATOM  12456  C4   C   A 601     112.923 103.018 -16.559  1.00 55.70      A16S
ATOM  12457  N4   C   A 601     113.560 102.025 -17.170  1.00 55.70      A16S
ATOM  12458  C5   C   A 601     113.655 104.088 -15.973  1.00 55.70      A16S
ATOM  12459  C2*  C   A 601     110.434 105.520 -13.127  1.00 52.63      A16S
ATOM  12460  O2*  C   A 601     109.193 106.105 -12.799  1.00 52.63      A16S
ATOM  12461  C3*  C   A 601     111.546 106.102 -12.277  1.00 52.63      A16S
ATOM  12462  O3*  C   A 601     111.143 106.299 -10.944  1.00 52.63      A16S
ATOM  12463  P    A   A 602     111.402 105.141  -9.863  1.00 54.58      A16S
ATOM  12464  O1P  A   A 602     111.039 105.700  -8.528  1.00 54.50      A16S
ATOM  12465  O2P  A   A 602     112.772 104.600 -10.068  1.00 54.50      A16S
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ATOM  12466  O5* A   A 602     110.366 104.006 -10.288  1.00 54.58      A16S
ATOM  12467  C5* A   A 602     108.960 104.288 -10.373  1.00 54.58      A16S
ATOM  12468  C4* A   A 602     108.217 103.095 -10.929  1.00 54.58      A16S
ATOM  12469  O4* A   A 602     108.527 102.913 -12.333  1.00 54.58      A16S
ATOM  12470  C1* A   A 602     108.546 101.531 -12.640  1.00 54.58      A16S
ATOM  12471  N9  A   A 602     109.873 101.192 -13.150  1.00 54.50      A16S
ATOM  12472  C4  A   A 602     110.181 100.149 -13.989  1.00 54.50      A16S
ATOM  12473  N3  A   A 602     109.333  99.264 -14.538  1.00 54.50      A16S
ATOM  12474  C2  A   A 602     109.994  98.382 -15.282  1.00 54.50      A16S
ATOM  12475  N1  A   A 602     111.305  98.288 -15.521  1.00 54.50      A16S
ATOM  12476  C6  A   A 602     112.130  99.190 -14.951  1.00 54.50      A16S
ATOM  12477  N6  A   A 602     113.445  99.090 -15.174  1.00 54.50      A16S
ATOM  12478  C5  A   A 602     111.551 100.185 -14.144  1.00 54.50      A16S
ATOM  12479  N7  A   A 602     112.096 101.244 -13.434  1.00 54.50      A16S
ATOM  12480  C8  A   A 602     111.061 101.812 -12.870  1.00 54.50      A16S
ATOM  12481  C2* A   A 602     108.221 100.757 -11.359  1.00 54.58      A16S
ATOM  12482  O2* A   A 602     106.869 100.377 -11.323  1.00 54.58      A16S
ATOM  12483  C3* A   A 602     108.565 101.771 -10.284  1.00 54.58      A16S
ATOM  12484  O3* A   A 602     107.820 101.554  -9.114  1.00 54.58      A16S
ATOM  12485  P   U   A 603     108.402 100.578  -7.990  1.00 41.46      A16S
ATOM  12486  O1P U   A 603     107.378 100.542  -6.916  1.00 82.21      A16S
ATOM  12487  O2P U   A 603     109.798 100.973  -7.658  1.00 82.21      A16S
ATOM  12488  O5* U   A 603     108.442  99.161  -8.719  1.00 41.46      A16S
ATOM  12489  C5* U   A 603     107.228  98.469  -9.011  1.00 41.46      A16S
ATOM  12490  C4* U   A 603     107.508  97.197  -9.765  1.00 41.46      A16S
ATOM  12491  O4* U   A 603     108.043  97.507 -11.071  1.00 41.46      A16S
ATOM  12492  C1* U   A 603     108.916  96.468 -11.481  1.00 41.46      A16S
ATOM  12493  N1  U   A 603     110.264  97.030 -11.673  1.00 82.21      A16S
ATOM  12494  C6  U   A 603     110.725  98.065 -10.896  1.00 82.21      A16S
ATOM  12495  C2  U   A 603     111.072  96.462 -12.641  1.00 82.21      A16S
ATOM  12496  O2  U   A 603     110.695  95.582 -13.395  1.00 82.21      A16S
ATOM  12497  N3  U   A 603     112.342  96.969 -12.701  1.00 82.21      A16S
ATOM  12498  C4  U   A 603     112.873  97.970 -11.926  1.00 82.21      A16S
ATOM  12499  O4  U   A 603     114.073  98.229 -12.017  1.00 82.21      A16S
ATOM  12500  C5  U   A 603     111.965  98.540 -10.990  1.00 82.21      A16S
ATOM  12501  C2* U   A 603     108.916  95.408 -10.378  1.00 41.46      A16S
ATOM  12502  O2* U   A 603     107.959  94.412 -10.654  1.00 41.46      A16S
ATOM  12503  C3* U   A 603     108.511  96.227  -9.168  1.00 41.46      A16S
ATOM  12504  O3* U   A 603     107.941  95.394  -8.180  1.00 41.46      A16S
ATOM  12505  P   G   A 604     108.878  94.766  -7.036  1.00 40.78      A16S
ATOM  12506  O1P G   A 604     107.967  94.254  -5.990  1.00 42.48      A16S
ATOM  12507  O2P G   A 604     109.928  95.744  -6.664  1.00 42.48      A16S
ATOM  12508  O5* G   A 604     109.567  93.529  -7.763  1.00 40.78      A16S
ATOM  12509  C5* G   A 604     108.751  92.489  -8.312  1.00 40.78      A16S
ATOM  12510  C4* G   A 604     109.578  91.512  -9.109  1.00 40.78      A16S
ATOM  12511  O4* G   A 604     110.015  92.107 -10.351  1.00 40.78      A16S
ATOM  12512  C1* G   A 604     111.265  91.559 -10.720  1.00 40.78      A16S
ATOM  12513  N9  G   A 604     112.243  92.635 -10.742  1.00 42.48      A16S
ATOM  12514  C4  G   A 604     113.490  92.574 -11.296  1.00 42.48      A16S
ATOM  12515  N3  G   A 604     114.010  91.520 -11.947  1.00 42.48      A16S
ATOM  12516  C2  G   A 604     115.228  91.756 -12.362  1.00 42.48      A16S
ATOM  12517  N2  G   A 604     115.875  90.831 -13.066  1.00 42.48      A16S
ATOM  12518  N1  G   A 604     115.897  92.919 -12.131  1.00 42.48      A16S
ATOM  12519  C6  G   A 604     115.385  94.016 -11.454  1.00 42.48      A16S
ATOM  12520  O6  G   A 604     116.085  95.022 -11.283  1.00 42.48      A16S
ATOM  12521  C5  G   A 604     114.066  93.790 -11.032  1.00 42.48      A16S
ATOM  12522  N7  G   A 604     113.188  94.614 -10.344  1.00 42.48      A16S
ATOM  12523  C8  G   A 604     112.119  93.887 -10.196  1.00 42.48      A16S
ATOM  12524  C2* G   A 604     111.639  90.514  -9.671  1.00 40.78      A16S
ATOM  12525  O2* G   A 604     111.242  89.239 -10.135  1.00 40.78      A16S
ATOM  12526  C3* G   A 604     110.844  90.992  -8.468  1.00 40.78      A16S
ATOM  12527  O3* G   A 604     110.566  89.944  -7.580  1.00 40.78      A16S
ATOM  12528  P   U   A 605     111.435  89.802  -6.244  1.00 50.11      A16S
ATOM  12529  O1P U   A 605     110.848  88.694  -5.447  1.00 62.78      A16S
ATOM  12530  O2P U   A 605     111.581  91.151  -5.637  1.00 62.78      A16S
ATOM  12531  O5* U   A 605     112.856  89.322  -6.777  1.00 50.11      A16S
ATOM  12532  C5* U   A 605     112.964  88.117  -7.548  1.00 50.11      A16S
ATOM  12533  C4* U   A 605     114.318  88.018  -8.203  1.00 50.11      A16S
ATOM  12534  O4* U   A 605     114.473  89.056  -9.198  1.00 50.11      A16S
ATOM  12535  C1* U   A 605     115.832  89.430  -9.285  1.00 50.11      A16S
ATOM  12536  N1  U   A 605     115.944  90.866  -8.989  1.00 62.78      A16S
ATOM  12537  C6  U   A 605     114.894  91.571  -8.475  1.00 62.78      A16S
ATOM  12538  C2  U   A 605     117.152  91.487  -9.241  1.00 62.78      A16S
ATOM  12539  O2  U   A 605     118.116  90.905  -9.694  1.00 62.78      A16S
ATOM  12540  N3  U   A 605     117.194  92.821  -8.937  1.00 62.78      A16S
ATOM  12541  C4  U   A 605     116.182  93.580  -8.416  1.00 62.78      A16S
ATOM  12542  O4  U   A 605     116.370  94.778  -8.210  1.00 62.78      A16S
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ATOM  12543  C5  U   A 605     114.970  92.870  -8.185  1.00 62.78      A16S
ATOM  12544  C2* U   A 605     116.608  88.554  -8.302  1.00 50.11      A16S
ATOM  12545  O2* U   A 605     117.083  87.414  -8.985  1.00 50.11      A16S
ATOM  12546  C3* U   A 605     115.527  88.172  -7.306  1.00 50.11      A16S
ATOM  12547  O3* U   A 605     115.843  86.957  -6.659  1.00 50.11      A16S
ATOM  12548  P   G   A 606     116.454  86.988  -5.180  1.00 53.27      A16S
ATOM  12549  O1P G   A 606     116.682  85.568  -4.809  1.00107.89      A16S
ATOM  12550  O2P G   A 606     115.599  87.850  -4.324  1.00107.89      A16S
ATOM  12551  O5* G   A 606     117.859  87.708  -5.360  1.00 53.27      A16S
ATOM  12552  C5* G   A 606     118.898  87.113  -6.170  1.00 53.27      A16S
ATOM  12553  C4* G   A 606     120.118  88.004  -6.192  1.00 53.27      A16S
ATOM  12554  O4* G   A 606     119.815  89.203  -6.951  1.00 53.27      A16S
ATOM  12555  C1* G   A 606     120.323  90.337  -6.275  1.00 53.27      A16S
ATOM  12556  N9  G   A 606     119.174  91.144  -5.869  1.00107.89      A16S
ATOM  12557  C4  G   A 606     119.101  92.516  -5.768  1.00107.89      A16S
ATOM  12558  N3  G   A 606     120.102  93.388  -6.004  1.00107.89      A16S
ATOM  12559  C2  G   A 606     119.715  94.642  -5.831  1.00107.89      A16S
ATOM  12560  N2  G   A 606     120.584  95.642  -6.010  1.00107.89      A16S
ATOM  12561  N1  G   A 606     118.447  95.012  -5.465  1.00107.89      A16S
ATOM  12562  C6  G   A 606     117.399  94.135  -5.218  1.00107.89      A16S
ATOM  12563  O6  G   A 606     116.285  94.577  -4.893  1.00107.89      A16S
ATOM  12564  C5  G   A 606     117.801  92.785  -5.391  1.00107.89      A16S
ATOM  12565  N7  G   A 606     117.078  91.610  -5.240  1.00107.89      A16S
ATOM  12566  C8  G   A 606     117.930  90.667  -5.529  1.00107.89      A16S
ATOM  12567  C2* G   A 606     121.199  89.831  -5.118  1.00 53.27      A16S
ATOM  12568  O2* G   A 606     122.525  89.692  -5.587  1.00 53.27      A16S
ATOM  12569  C3* G   A 606     120.572  88.475  -4.815  1.00 53.27      A16S
ATOM  12570  O3* G   A 606     121.513  87.544  -4.268  1.00 53.27      A16S
ATOM  12571  P   A   A 607     121.670  87.384  -2.669  1.00 65.39      A16S
ATOM  12572  O1P A   A 607     121.114  88.590  -2.001  1.00 73.48      A16S
ATOM  12573  O2P A   A 607     123.065  86.965  -2.379  1.00 73.48      A16S
ATOM  12574  O5* A   A 607     120.736  86.148  -2.306  1.00 65.39      A16S
ATOM  12575  C5* A   A 607     119.331  86.336  -2.073  1.00 65.39      A16S
ATOM  12576  C4* A   A 607     118.858  85.425  -0.968  1.00 65.39      A16S
ATOM  12577  O4* A   A 607     119.156  84.062  -1.344  1.00 65.39      A16S
ATOM  12578  C1* A   A 607     119.489  83.318  -0.190  1.00 65.39      A16S
ATOM  12579  N9  A   A 607     120.832  82.773  -0.369  1.00 73.48      A16S
ATOM  12580  C4  A   A 607     121.449  81.905   0.494  1.00 73.48      A16S
ATOM  12581  N3  A   A 607     120.940  81.400   1.628  1.00 73.48      A16S
ATOM  12582  C2  A   A 607     121.820  80.606   2.210  1.00 73.48      A16S
ATOM  12583  N1  A   A 607     123.062  80.286   1.819  1.00 73.48      A16S
ATOM  12584  C6  A   A 607     123.542  80.816   0.677  1.00 73.48      A16S
ATOM  12585  N6  A   A 607     124.785  80.501   0.297  1.00 73.48      A16S
ATOM  12586  C5  A   A 607     122.701  81.671  -0.038  1.00 73.48      A16S
ATOM  12587  N7  A   A 607     122.869  82.370  -1.225  1.00 73.48      A16S
ATOM  12588  C8  A   A 607     121.734  83.005  -1.379  1.00 73.48      A16S
ATOM  12589  C2* A   A 607     119.398  84.245   1.028  1.00 65.39      A16S
ATOM  12590  O2* A   A 607     118.174  84.078   1.709  1.00 65.39      A16S
ATOM  12591  C3* A   A 607     119.524  85.615   0.388  1.00 65.39      A16S
ATOM  12592  O3* A   A 607     118.834  86.568   1.173  1.00 65.39      A16S
ATOM  12593  P   A   A 608     119.636  87.446   2.250  1.00 42.01      A16S
ATOM  12594  O1P A   A 608     118.615  88.303   2.902  1.00 45.03      A16S
ATOM  12595  O2P A   A 608     120.807  88.087   1.572  1.00 45.03      A16S
ATOM  12596  O5* A   A 608     120.153  86.394   3.333  1.00 42.01      A16S
ATOM  12597  C5* A   A 608     119.223  85.728   4.217  1.00 42.01      A16S
ATOM  12598  C4* A   A 608     119.918  84.666   5.036  1.00 42.01      A16S
ATOM  12599  O4* A   A 608     120.455  83.660   4.140  1.00 42.01      A16S
ATOM  12600  C1* A   A 608     121.694  83.186   4.641  1.00 42.01      A16S
ATOM  12601  N9  A   A 608     122.758  83.500   3.683  1.00 45.03      A16S
ATOM  12602  C4  A   A 608     124.032  82.993   3.734  1.00 45.03      A16S
ATOM  12603  N3  A   A 608     124.526  82.131   4.638  1.00 45.03      A16S
ATOM  12604  C2  A   A 608     125.795  81.863   4.380  1.00 45.03      A16S
ATOM  12605  N1  A   A 608     126.579  82.328   3.397  1.00 45.03      A16S
ATOM  12606  C6  A   A 608     126.056  83.202   2.510  1.00 45.03      A16S
ATOM  12607  N6  A   A 608     126.845  83.680   1.542  1.00 45.03      A16S
ATOM  12608  C5  A   A 608     124.706  83.560   2.670  1.00 45.03      A16S
ATOM  12609  N7  A   A 608     123.873  84.410   1.956  1.00 45.03      A16S
ATOM  12610  C8  A   A 608     122.734  84.338   2.593  1.00 45.03      A16S
ATOM  12611  C2* A   A 608     121.947  83.872   5.981  1.00 42.01      A16S
ATOM  12612  O2* A   A 608     121.525  83.018   7.018  1.00 42.01      A16S
ATOM  12613  C3* A   A 608     121.115  85.136   5.844  1.00 42.01      A16S
ATOM  12614  O3* A   A 608     120.774  85.681   7.103  1.00 42.01      A16S
ATOM  12615  P   A   A 609     121.687  86.853   7.720  1.00 48.30      A16S
ATOM  12616  O1P A   A 609     121.279  87.117   9.116  1.00 56.79      A16S
ATOM  12617  O2P A   A 609     121.692  87.969   6.745  1.00 56.79      A16S
ATOM  12618  O5* A   A 609     123.140  86.212   7.762  1.00 48.30      A16S
ATOM  12619  C5* A   A 609     123.432  85.133   8.648  1.00 48.30      A16S
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ATOM  12620  C4* A   A 609     124.851  84.681   8.456  1.00 48.30      A16S
ATOM  12621  O4* A   A 609     125.012  84.151   7.117  1.00 48.30      A16S
ATOM  12622  C1* A   A 609     126.308  84.460   6.631  1.00 48.30      A16S
ATOM  12623  N9  A   A 609     126.165  85.266   5.425  1.00 56.79      A16S
ATOM  12624  C4  A   A 609     127.154  85.573   4.527  1.00 56.79      A16S
ATOM  12625  N3  A   A 609     128.436  85.188   4.564  1.00 56.79      A16S
ATOM  12626  C2  A   A 609     129.104  85.689   3.533  1.00 56.79      A16S
ATOM  12627  N1  A   A 609     128.671  86.470   2.549  1.00 56.79      A16S
ATOM  12628  C6  A   A 609     127.376  86.839   2.546  1.00 56.79      A16S
ATOM  12629  N6  A   A 609     126.933  87.632   1.568  1.00 56.79      A16S
ATOM  12630  C5  A   A 609     126.564  86.373   3.578  1.00 56.79      A16S
ATOM  12631  N7  A   A 609     125.221  86.563   3.861  1.00 56.79      A16S
ATOM  12632  C8  A   A 609     125.036  85.885   4.962  1.00 56.79      A16S
ATOM  12633  C2* A   A 609     127.041  85.223   7.731  1.00 48.30      A16S
ATOM  12634  O2* A   A 609     127.839  84.329   8.479  1.00 48.30      A16S
ATOM  12635  C3* A   A 609     125.879  85.785   8.533  1.00 48.30      A16S
ATOM  12636  O3* A   A 609     126.223  86.094   9.858  1.00 48.30      A16S
ATOM  12637  P   G   A 610     126.443  87.628  10.263  1.00 56.15      A16S
ATOM  12638  O1P G   A 610     126.887  87.675  11.686  1.00 64.15      A16S
ATOM  12639  O2P G   A 610     125.254  88.408   9.839  1.00 64.15      A16S
ATOM  12640  O5* G   A 610     127.667  88.053   9.354  1.00 56.15      A16S
ATOM  12641  C5* G   A 610     128.912  87.355   9.461  1.00 56.15      A16S
ATOM  12642  C4* G   A 610     129.851  87.802   8.377  1.00 56.15      A16S
ATOM  12643  O4* G   A 610     129.302  87.462   7.083  1.00 56.15      A16S
ATOM  12644  C1* G   A 610     129.660  88.450   6.149  1.00 56.15      A16S
ATOM  12645  N9  G   A 610     128.435  89.014   5.605  1.00 64.15      A16S
ATOM  12646  C4  G   A 610     128.352  89.995   4.659  1.00 64.15      A16S
ATOM  12647  N3  G   A 610     129.392  90.619   4.083  1.00 64.15      A16S
ATOM  12648  C2  G   A 610     129.002  91.521   3.212  1.00 64.15      A16S
ATOM  12649  N2  G   A 610     129.914  92.242   2.555  1.00 64.15      A16S
ATOM  12650  N1  G   A 610     127.691  91.785   2.916  1.00 64.15      A16S
ATOM  12651  C6  G   A 610     126.601  91.138   3.482  1.00 64.15      A16S
ATOM  12652  O6  G   A 610     125.453  91.420   3.113  1.00 64.15      A16S
ATOM  12653  C5  G   A 610     127.009  90.181   4.439  1.00 64.15      A16S
ATOM  12654  N7  G   A 610     126.258  89.337   5.244  1.00 64.15      A16S
ATOM  12655  C8  G   A 610     127.147  88.665   5.920  1.00 64.15      A16S
ATOM  12656  C2* G   A 610     130.534  89.478   6.867  1.00 56.15      A16S
ATOM  12657  O2* G   A 610     131.882  89.091   6.709  1.00 56.15      A16S
ATOM  12658  C3* G   A 610     130.097  89.296   8.308  1.00 56.15      A16S
ATOM  12659  O3* G   A 610     131.115  89.657   9.220  1.00 56.15      A16S
ATOM  12660  P   A   A 611     130.988  91.022  10.043  1.00 51.73      A16S
ATOM  12661  O1P A   A 611     132.208  91.055  10.898  1.00 55.68      A16S
ATOM  12662  O2P A   A 611     129.645  91.127  10.667  1.00 55.68      A16S
ATOM  12663  O5* A   A 611     131.107  92.138   8.923  1.00 51.73      A16S
ATOM  12664  C5* A   A 611     132.370  92.394   8.312  1.00 51.73      A16S
ATOM  12665  C4* A   A 611     132.232  93.461   7.270  1.00 51.73      A16S
ATOM  12666  O4* A   A 611     131.367  92.975   6.223  1.00 51.73      A16S
ATOM  12667  C1* A   A 611     130.543  94.019   5.753  1.00 51.73      A16S
ATOM  12668  N9  A   A 611     129.163  93.656   6.056  1.00 55.68      A16S
ATOM  12669  C4  A   A 611     128.043  94.169   5.461  1.00 55.68      A16S
ATOM  12670  N3  A   A 611     127.993  95.058   4.461  1.00 55.68      A16S
ATOM  12671  C2  A   A 611     126.728  95.360   4.171  1.00 55.68      A16S
ATOM  12672  N1  A   A 611     125.602  94.912   4.731  1.00 55.68      A16S
ATOM  12673  C6  A   A 611     125.698  94.016   5.735  1.00 55.68      A16S
ATOM  12674  N6  A   A 611     124.580  93.575   6.306  1.00 55.68      A16S
ATOM  12675  C5  A   A 611     126.974  93.606   6.125  1.00 55.68      A16S
ATOM  12676  N7  A   A 611     127.409  92.717   7.092  1.00 55.68      A16S
ATOM  12677  C8  A   A 611     128.712  92.776   7.007  1.00 55.68      A16S
ATOM  12678  C2* A   A 611     130.967  95.296   6.479  1.00 51.73      A16S
ATOM  12679  O2* A   A 611     131.895  95.983   5.670  1.00 51.73      A16S
ATOM  12680  C3* A   A 611     131.578  94.735   7.757  1.00 51.73      A16S
ATOM  12681  O3* A   A 611     132.540  95.584   8.376  1.00 51.73      A16S
ATOM  12682  P   C   A 612     132.163  96.354   9.737  1.00 52.64      A16S
ATOM  12683  O1P C   A 612     133.368  97.082  10.201  1.00 59.77      A16S
ATOM  12684  O2P C   A 612     131.490  95.405  10.648  1.00 59.77      A16S
ATOM  12685  O5* C   A 612     131.101  97.428   9.243  1.00 52.64      A16S
ATOM  12686  C5* C   A 612     131.489  98.446   8.315  1.00 52.64      A16S
ATOM  12687  C4* C   A 612     130.313  99.308   7.972  1.00 52.64      A16S
ATOM  12688  O4* C   A 612     129.382  98.553   7.156  1.00 52.64      A16S
ATOM  12689  C1* C   A 612     128.053  98.934   7.472  1.00 52.64      A16S
ATOM  12690  N1  C   A 612     127.323  97.739   7.941  1.00 59.77      A16S
ATOM  12691  C6  C   A 612     127.994  96.690   8.503  1.00 59.77      A16S
ATOM  12692  C2  C   A 612     125.925  97.695   7.815  1.00 59.77      A16S
ATOM  12693  O2  C   A 612     125.336  98.648   7.301  1.00 59.77      A16S
ATOM  12694  N3  C   A 612     125.257  96.615   8.261  1.00 59.77      A16S
ATOM  12695  C4  C   A 612     125.923  95.602   8.814  1.00 59.77      A16S
ATOM  12696  N4  C   A 612     125.223  94.554   9.246  1.00 59.77      A16S
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ATOM  12697  C5  C   A 612     127.340  95.616   8.950  1.00 59.77      A16S
ATOM  12698  C2* C   A 612     128.127 100.038   8.535  1.00 52.64      A16S
ATOM  12699  O2* C   A 612     128.044 101.300   7.912  1.00 52.64      A16S
ATOM  12700  C3* C   A 612     129.493  99.782   9.159  1.00 52.64      A16S
ATOM  12701  O3* C   A 612     130.058 100.933   9.783  1.00 52.64      A16S
ATOM  12702  P   C   A 613     129.891 101.136  11.375  1.00 59.36      A16S
ATOM  12703  O1P C   A 613     130.666 102.353  11.735  1.00 78.40      A16S
ATOM  12704  O2P C   A 613     130.171  99.858  12.083  1.00 78.40      A16S
ATOM  12705  O5* C   A 613     128.342 101.476  11.529  1.00 59.36      A16S
ATOM  12706  C5* C   A 613     127.820 102.698  10.998  1.00 59.36      A16S
ATOM  12707  C4* C   A 613     126.356 102.832  11.310  1.00 59.36      A16S
ATOM  12708  O4* C   A 613     125.596 101.902  10.501  1.00 59.36      A16S
ATOM  12709  C1* C   A 613     124.447 101.479  11.219  1.00 59.36      A16S
ATOM  12710  N1  C   A 613     124.534 100.026  11.446  1.00 78.40      A16S
ATOM  12711  C6  C   A 613     125.744  99.409  11.598  1.00 78.40      A16S
ATOM  12712  C2  C   A 613     123.353  99.287  11.525  1.00 78.40      A16S
ATOM  12713  O2  C   A 613     122.270  99.869  11.380  1.00 78.40      A16S
ATOM  12714  N3  C   A 613     123.420  97.962  11.756  1.00 78.40      A16S
ATOM  12715  C4  C   A 613     124.604  97.372  11.907  1.00 78.40      A16S
ATOM  12716  N4  C   A 613     124.624  96.062  12.136  1.00 78.40      A16S
ATOM  12717  C5  C   A 613     125.823  98.098  11.831  1.00 78.40      A16S
ATOM  12718  C2* C   A 613     124.437 102.225  12.553  1.00 59.36      A16S
ATOM  12719  O2* C   A 613     123.631 103.384  12.446  1.00 59.36      A16S
ATOM  12720  C3* C   A 613     125.915 102.539  12.736  1.00 59.36      A16S
ATOM  12721  O3* C   A 613     126.111 103.624  13.625  1.00 59.36      A16S
ATOM  12722  P   A   A 614     126.314 103.337  15.199  1.00 60.12      A16S
ATOM  12723  O1P A   A 614     126.727 104.630  15.791  1.00 66.54      A16S
ATOM  12724  O2P A   A 614     127.170 102.142  15.401  1.00 66.54      A16S
ATOM  12725  O5* A   A 614     124.851 102.990  15.720  1.00 60.12      A16S
ATOM  12726  C5* A   A 614     123.781 103.921  15.527  1.00 60.12      A16S
ATOM  12727  C4* A   A 614     122.456 103.276  15.831  1.00 60.12      A16S
ATOM  12728  O4* A   A 614     122.145 102.269  14.834  1.00 60.12      A16S
ATOM  12729  C1* A   A 614     121.430 101.203  15.440  1.00 60.12      A16S
ATOM  12730  N9  A   A 614     122.239  99.984  15.359  1.00 66.54      A16S
ATOM  12731  C4  A   A 614     121.766  98.695  15.369  1.00 66.54      A16S
ATOM  12732  N3  A   A 614     120.487  98.294  15.422  1.00 66.54      A16S
ATOM  12733  C2  A   A 614     120.411  96.970  15.437  1.00 66.54      A16S
ATOM  12734  N1  A   A 614     121.389  96.067  15.406  1.00 66.54      A16S
ATOM  12735  C6  A   A 614     122.663  96.501  15.358  1.00 66.54      A16S
ATOM  12736  N6  A   A 614     123.647  95.598  15.338  1.00 66.54      A16S
ATOM  12737  C5  A   A 614     122.881  97.886  15.335  1.00 66.54      A16S
ATOM  12738  N7  A   A 614     124.038  98.648  15.288  1.00 66.54      A16S
ATOM  12739  C8  A   A 614     123.603  99.881  15.296  1.00 66.54      A16S
ATOM  12740  C2* A   A 614     121.201 101.591  16.900  1.00 60.12      A16S
ATOM  12741  O2* A   A 614     119.949 102.239  17.009  1.00 60.12      A16S
ATOM  12742  C3* A   A 614     122.369 102.531  17.146  1.00 60.12      A16S
ATOM  12743  O3* A   A 614     122.173 103.387  18.246  1.00 60.12      A16S
ATOM  12744  P   C   A 615     122.967 103.097  19.608  1.00 79.01      A16S
ATOM  12745  O1P C   A 615     122.939 104.336  20.419  1.00 79.48      A16S
ATOM  12746  O2P C   A 615     124.274 102.491  19.252  1.00 79.48      A16S
ATOM  12747  O5* C   A 615     122.064 102.002  20.335  1.00 79.01      A16S
ATOM  12748  C5* C   A 615     120.667 102.266  20.592  1.00 79.01      A16S
ATOM  12749  C4* C   A 615     119.887 100.979  20.769  1.00 79.01      A16S
ATOM  12750  O4* C   A 615     119.907 100.202  19.544  1.00 79.01      A16S
ATOM  12751  C1* C   A 615     119.863  98.819  19.857  1.00 79.01      A16S
ATOM  12752  N1  C   A 615     121.107  98.171  19.385  1.00 79.48      A16S
ATOM  12753  C6  C   A 615     122.233  98.906  19.134  1.00 79.48      A16S
ATOM  12754  C2  C   A 615     121.127  96.775  19.224  1.00 79.48      A16S
ATOM  12755  O2  C   A 615     120.087  96.129  19.422  1.00 79.48      A16S
ATOM  12756  N3  C   A 615     122.279  96.172  18.859  1.00 79.48      A16S
ATOM  12757  C4  C   A 615     123.376  96.902  18.644  1.00 79.48      A16S
ATOM  12758  N4  C   A 615     124.497  96.265  18.314  1.00 79.48      A16S
ATOM  12759  C5  C   A 615     123.375  98.318  18.767  1.00 79.48      A16S
ATOM  12760  C2* C   A 615     119.736  98.702  21.376  1.00 79.01      A16S
ATOM  12761  O2* C   A 615     118.370  98.647  21.739  1.00 79.01      A16S
ATOM  12762  C3* C   A 615     120.359 100.006  21.838  1.00 79.01      A16S
ATOM  12763  O3* C   A 615     119.865 100.329  23.121  1.00 79.01      A16S
ATOM  12764  P   G   A 616     120.605  99.748  24.422  1.00 76.68      A16S
ATOM  12765  O1P G   A 616     119.812 100.232  25.588  1.00 67.75      A16S
ATOM  12766  O2P G   A 616     122.056 100.074  24.327  1.00 67.75      A16S
ATOM  12767  O5* G   A 616     120.460  98.159  24.302  1.00 76.68      A16S
ATOM  12768  C5* G   A 616     119.188  97.508  24.528  1.00 76.68      A16S
ATOM  12769  C4* G   A 616     119.274  96.015  24.249  1.00 76.68      A16S
ATOM  12770  O4* G   A 616     119.740  95.784  22.893  1.00 76.68      A16S
ATOM  12771  C1* G   A 616     120.381  94.523  22.823  1.00 76.68      A16S
ATOM  12772  N9  G   A 616     121.724  94.686  22.273  1.00 67.75      A16S
ATOM  12773  C4  G   A 616     122.562  93.671  21.872  1.00 67.75      A16S
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ATOM  12774  N3  G   A 616     122.274  92.353  21.884  1.00 67.75      A16S
ATOM  12775  C2  G   A 616     123.294  91.623  21.473  1.00 67.75      A16S
ATOM  12776  N2  G   A 616     123.182  90.293  21.420  1.00 67.75      A16S
ATOM  12777  N1  G   A 616     124.498  92.140  21.084  1.00 67.75      A16S
ATOM  12778  C6  G   A 616     124.817  93.492  21.067  1.00 67.75      A16S
ATOM  12779  O6  G   A 616     125.945  93.856  20.714  1.00 67.75      A16S
ATOM  12780  C5  G   A 616     123.729  94.289  21.495  1.00 67.75      A16S
ATOM  12781  N7  G   A 616     123.622  95.666  21.622  1.00 67.75      A16S
ATOM  12782  C8  G   A 616     122.415  95.855  22.081  1.00 67.75      A16S
ATOM  12783  C2* G   A 616     120.396  93.922  24.229  1.00 76.68      A16S
ATOM  12784  O2* G   A 616     119.343  92.989  24.326  1.00 76.68      A16S
ATOM  12785  C3* G   A 616     120.181  95.148  25.112  1.00 76.68      A16S
ATOM  12786  O3* G   A 616     119.540  94.768  26.326  1.00 76.68      A16S
ATOM  12787  P   G   A 617     120.410  94.166  27.546  1.00 54.00      A16S
ATOM  12788  O1P G   A 617     119.452  93.937  28.659  1.00 56.25      A16S
ATOM  12789  O2P G   A 617     121.618  95.010  27.778  1.00 56.25      A16S
ATOM  12790  O5* G   A 617     120.878  92.730  27.034  1.00 54.00      A16S
ATOM  12791  C5* G   A 617     119.981  91.597  27.086  1.00 54.00      A16S
ATOM  12792  C4* G   A 617     120.743  90.301  26.936  1.00 54.00      A16S
ATOM  12793  O4* G   A 617     121.233  90.168  25.581  1.00 54.00      A16S
ATOM  12794  C1* G   A 617     122.474  89.479  25.589  1.00 54.00      A16S
ATOM  12795  N9  G   A 617     123.503  90.340  25.024  1.00 56.25      A16S
ATOM  12796  C4  G   A 617     124.707  89.935  24.496  1.00 56.25      A16S
ATOM  12797  N3  G   A 617     125.140  88.661  24.385  1.00 56.25      A16S
ATOM  12798  C2  G   A 617     126.352  88.595  23.852  1.00 56.25      A16S
ATOM  12799  N2  G   A 617     126.940  87.407  23.666  1.00 56.25      A16S
ATOM  12800  N1  G   A 617     127.076  89.686  23.463  1.00 56.25      A16S
ATOM  12801  C6  G   A 617     126.655  91.002  23.576  1.00 56.25      A16S
ATOM  12802  O6  G   A 617     127.399  91.914  23.215  1.00 56.25      A16S
ATOM  12803  C5  G   A 617     125.356  91.091  24.138  1.00 56.25      A16S
ATOM  12804  N7  G   A 617     124.573  92.202  24.421  1.00 56.25      A16S
ATOM  12805  C8  G   A 617     123.485  91.707  24.940  1.00 56.25      A16S
ATOM  12806  C2* G   A 617     122.813  89.137  27.038  1.00 54.00      A16S
ATOM  12807  O2* G   A 617     122.486  87.785  27.314  1.00 54.00      A16S
ATOM  12808  C3* G   A 617     121.982  90.161  27.799  1.00 54.00      A16S
ATOM  12809  O3* G   A 617     121.696  89.735  29.114  1.00 54.00      A16S
ATOM  12810  P   C   A 618     122.657  90.196  30.313  1.00 53.68      A16S
ATOM  12811  O1P C   A 618     122.067  89.651  31.566  1.00 65.11      A16S
ATOM  12812  O2P C   A 618     122.902  91.649  30.185  1.00 65.11      A16S
ATOM  12813  O5* C   A 618     124.045  89.458  30.032  1.00 53.68      A16S
ATOM  12814  C5* C   A 618     124.177  88.063  30.332  1.00 53.68      A16S
ATOM  12815  C4* C   A 618     125.533  87.524  29.933  1.00 53.68      A16S
ATOM  12816  O4* C   A 618     125.834  87.854  28.563  1.00 53.68      A16S
ATOM  12817  C1* C   A 618     127.182  87.522  28.335  1.00 53.68      A16S
ATOM  12818  N1  C   A 618     127.807  88.457  27.395  1.00 65.11      A16S
ATOM  12819  C6  C   A 618     127.391  89.752  27.281  1.00 65.11      A16S
ATOM  12820  C2  C   A 618     128.856  87.981  26.610  1.00 65.11      A16S
ATOM  12821  O2  C   A 618     129.217  86.794  26.741  1.00 65.11      A16S
ATOM  12822  N3  C   A 618     129.453  88.816  25.731  1.00 65.11      A16S
ATOM  12823  C4  C   A 618     129.039  90.077  25.621  1.00 65.11      A16S
ATOM  12824  N4  C   A 618     129.648  90.859  24.731  1.00 65.11      A16S
ATOM  12825  C5  C   A 618     127.977  90.590  26.415  1.00 65.11      A16S
ATOM  12826  C2* C   A 618     127.882  87.440  29.690  1.00 53.68      A16S
ATOM  12827  O2* C   A 618     128.207  86.078  29.900  1.00 53.68      A16S
ATOM  12828  C3* C   A 618     126.805  87.941  30.653  1.00 53.68      A16S
ATOM  12829  O3* C   A 618     126.954  87.252  31.894  1.00 53.68      A16S
ATOM  12830  P   U   A 619     128.267  87.493  32.805  1.00 56.13      A16S
ATOM  12831  O1P U   A 619     129.464  86.903  32.159  1.00 58.89      A16S
ATOM  12832  O2P U   A 619     127.917  87.104  34.196  1.00 58.89      A16S
ATOM  12833  O5* U   A 619     128.482  89.064  32.779  1.00 56.13      A16S
ATOM  12834  C5* U   A 619     127.466  89.938  33.264  1.00 56.13      A16S
ATOM  12835  C4* U   A 619     128.062  91.268  33.603  1.00 56.13      A16S
ATOM  12836  O4* U   A 619     128.958  91.121  34.727  1.00 56.13      A16S
ATOM  12837  C1* U   A 619     130.014  92.053  34.610  1.00 56.13      A16S
ATOM  12838  N1  U   A 619     131.290  91.331  34.682  1.00 58.89      A16S
ATOM  12839  C6  U   A 619     131.452  90.098  34.109  1.00 58.89      A16S
ATOM  12840  C2  U   A 619     132.331  91.948  35.343  1.00 58.89      A16S
ATOM  12841  O2  U   A 619     132.218  93.031  35.890  1.00 58.89      A16S
ATOM  12842  N3  U   A 619     133.512  91.252  35.346  1.00 58.89      A16S
ATOM  12843  C4  U   A 619     133.751  90.025  34.773  1.00 58.89      A16S
ATOM  12844  O4  U   A 619     134.898  89.573  34.767  1.00 58.89      A16S
ATOM  12845  C5  U   A 619     132.614  89.439  34.133  1.00 58.89      A16S
ATOM  12846  C2* U   A 619     129.816  92.830  33.308  1.00 56.13      A16S
ATOM  12847  O2* U   A 619     129.153  94.047  33.585  1.00 56.13      A16S
ATOM  12848  C3* U   A 619     128.919  91.889  32.519  1.00 56.13      A16S
ATOM  12849  O3* U   A 619     128.118  92.578  31.572  1.00 56.13      A16S
ATOM  12850  P   C   A 620     128.341  92.303  30.008  1.00 41.79      A16S
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ATOM  12851  O1P C   A 620     127.194  92.931  29.279  1.00 54.33      A16S
ATOM  12852  O2P C   A 620     128.620  90.862  29.829  1.00 54.33      A16S
ATOM  12853  O5* C   A 620     129.698  93.071  29.676  1.00 41.79      A16S
ATOM  12854  C5* C   A 620     129.810  94.478  29.906  1.00 41.79      A16S
ATOM  12855  C4* C   A 620     131.139  94.987  29.420  1.00 41.79      A16S
ATOM  12856  O4* C   A 620     132.195  94.422  30.221  1.00 41.79      A16S
ATOM  12857  C1* C   A 620     133.375  94.341  29.452  1.00 41.79      A16S
ATOM  12858  N1   C   A 620     133.954  92.997  29.609  1.00 54.33      A16S
ATOM  12859  C6   C   A 620     133.163  91.909  29.855  1.00 54.33      A16S
ATOM  12860  C2   C   A 620     135.338  92.854  29.530  1.00 54.33      A16S
ATOM  12861  O2   C   A 620     136.027  93.849  29.260  1.00 54.33      A16S
ATOM  12862  N3   C   A 620     135.894  91.638  29.743  1.00 54.33      A16S
ATOM  12863  C4   C   A 620     135.115  90.589  30.014  1.00 54.33      A16S
ATOM  12864  N4   C   A 620     135.703  89.416  30.246  1.00 54.33      A16S
ATOM  12865  C5   C   A 620     133.698  90.699  30.064  1.00 54.33      A16S
ATOM  12866  C2* C   A 620     133.047  94.777  28.023  1.00 41.79      A16S
ATOM  12867  O2* C   A 620     133.442  96.127  27.828  1.00 41.79      A16S
ATOM  12868  C3* C   A 620     131.532  94.643  27.994  1.00 41.79      A16S
ATOM  12869  O3* C   A 620     130.976  95.558  27.066  1.00 41.79      A16S
ATOM  12870  P    A   A 621     130.452  95.020  25.651  1.00 54.71      A16S
ATOM  12871  O1P A   A 621     129.904  96.169  24.886  1.00 61.08      A16S
ATOM  12872  O2P A   A 621     129.586  93.846  25.919  1.00 61.08      A16S
ATOM  12873  O5* A   A 621     131.789  94.552  24.932  1.00 54.71      A16S
ATOM  12874  C5* A   A 621     132.799  95.516  24.607  1.00 54.71      A16S
ATOM  12875  C4* A   A 621     134.085  94.827  24.247  1.00 54.71      A16S
ATOM  12876  O4* A   A 621     134.583  94.122  25.406  1.00 54.71      A16S
ATOM  12877  C1* A   A 621     135.127  92.879  25.014  1.00 54.71      A16S
ATOM  12878  N9   A   A 621     134.334  91.834  25.665  1.00 61.08      A16S
ATOM  12879  C4   A   A 621     134.764  90.597  26.071  1.00 61.08      A16S
ATOM  12880  N3   A   A 621     135.984  90.067  25.913  1.00 61.08      A16S
ATOM  12881  C2   A   A 621     136.043  88.859  26.463  1.00 61.08      A16S
ATOM  12882  N1   A   A 621     135.092  88.171  27.111  1.00 61.08      A16S
ATOM  12883  C6   A   A 621     133.878  88.735  27.253  1.00 61.08      A16S
ATOM  12884  N6   A   A 621     132.936  88.063  27.916  1.00 61.08      A16S
ATOM  12885  C5   A   A 621     133.682  90.009  26.699  1.00 61.08      A16S
ATOM  12886  N7   A   A 621     132.577  90.843  26.654  1.00 61.08      A16S
ATOM  12887  C8   A   A 621     133.012  91.906  26.027  1.00 61.08      A16S
ATOM  12888  C2* A   A 621     135.113  92.836  23.484  1.00 54.71      A16S
ATOM  12889  O2* A   A 621     136.358  93.318  23.003  1.00 54.71      A16S
ATOM  12890  C3* A   A 621     133.960  93.777  23.164  1.00 54.71      A16S
ATOM  12891  O3* A   A 621     134.064  94.374  21.882  1.00 54.71      A16S
ATOM  12892  P    A   A 622     133.267  93.736  20.640  1.00 42.96      A16S
ATOM  12893  O1P A   A 622     133.541  94.638  19.492  1.00 56.55      A16S
ATOM  12894  O2P A   A 622     131.854  93.452  21.014  1.00 56.55      A16S
ATOM  12895  O5* A   A 622     134.034  92.360  20.391  1.00 42.96      A16S
ATOM  12896  C5* A   A 622     135.388  92.371  19.925  1.00 42.96      A16S
ATOM  12897  C4* A   A 622     136.032  91.027  20.116  1.00 42.96      A16S
ATOM  12898  O4* A   A 622     136.141  90.722  21.525  1.00 42.96      A16S
ATOM  12899  C1* A   A 622     136.029  89.322  21.711  1.00 42.96      A16S
ATOM  12900  N9   A   A 622     134.824  89.048  22.486  1.00 56.55      A16S
ATOM  12901  C4   A   A 622     134.577  87.895  23.184  1.00 56.55      A16S
ATOM  12902  N3   A   A 622     135.402  86.847  23.337  1.00 56.55      A16S
ATOM  12903  C2   A   A 622     134.819  85.900  24.060  1.00 56.55      A16S
ATOM  12904  N1   A   A 622     133.596  85.883  24.602  1.00 56.55      A16S
ATOM  12905  C6   A   A 622     132.793  86.954  24.421  1.00 56.55      A16S
ATOM  12906  N6   A   A 622     131.570  86.932  24.947  1.00 56.55      A16S
ATOM  12907  C5   A   A 622     133.296  88.025  23.682  1.00 56.55      A16S
ATOM  12908  N7   A   A 622     132.755  89.250  23.331  1.00 56.55      A16S
ATOM  12909  C8   A   A 622     133.703  89.823  22.633  1.00 56.55      A16S
ATOM  12910  C2* A   A 622     135.878  88.681  20.330  1.00 42.96      A16S
ATOM  12911  O2* A   A 622     137.139  88.249  19.850  1.00 42.96      A16S
ATOM  12912  C3* A   A 622     135.309  89.834  19.523  1.00 42.96      A16S
ATOM  12913  O3* A   A 622     135.588  89.669  18.149  1.00 42.96      A16S
ATOM  12914  P    C   A 623     134.385  89.380  17.136  1.00 48.22      A16S
ATOM  12915  O1P C   A 623     134.973  88.789  15.909  1.00 55.66      A16S
ATOM  12916  O2P C   A 623     133.549  90.607  17.033  1.00 55.66      A16S
ATOM  12917  O5* C   A 623     133.524  88.278  17.895  1.00 48.22      A16S
ATOM  12918  C5* C   A 623     133.993  86.924  18.030  1.00 48.22      A16S
ATOM  12919  C4* C   A 623     132.945  86.077  18.715  1.00 48.22      A16S
ATOM  12920  O4* C   A 623     132.835  86.477  20.105  1.00 48.22      A16S
ATOM  12921  C1* C   A 623     131.475  86.432  20.510  1.00 48.22      A16S
ATOM  12922  N1   C   A 623     131.028  87.808  20.811  1.00 55.66      A16S
ATOM  12923  C6   C   A 623     131.737  88.889  20.369  1.00 55.66      A16S
ATOM  12924  C2   C   A 623     129.852  87.993  21.540  1.00 55.66      A16S
ATOM  12925  O2   C   A 623     129.232  87.003  21.936  1.00 55.66      A16S
ATOM  12926  N3   C   A 623     129.418  89.244  21.793  1.00 55.66      A16S
ATOM  12927  C4   C   A 623     130.110  90.288  21.347  1.00 55.66      A16S
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ATOM  12928  N4  C   A 623     129.637  91.503  21.605  1.00 55.66      A16S
ATOM  12929  C5  C   A 623     131.317  90.133  20.610  1.00 55.66      A16S
ATOM  12930  C2* C   A 623     130.678  85.832  19.356  1.00 48.22      A16S
ATOM  12931  O2* C   A 623     130.620  84.437  19.532  1.00 48.22      A16S
ATOM  12932  C3* C   A 623     131.536  86.215  18.164  1.00 48.22      A16S
ATOM  12933  O3* C   A 623     131.302  85.381  17.052  1.00 48.22      A16S
ATOM  12934  P   C   A 624     130.187  85.804  15.978  1.00 41.74      A16S
ATOM  12935  O1P C   A 624     130.061  84.718  14.974  1.00 57.31      A16S
ATOM  12936  O2P C   A 624     130.488  87.183  15.521  1.00 57.31      A16S
ATOM  12937  O5* C   A 624     128.840  85.856  16.833  1.00 41.74      A16S
ATOM  12938  C5* C   A 624     128.247  84.651  17.339  1.00 41.74      A16S
ATOM  12939  C4* C   A 624     127.047  84.960  18.202  1.00 41.74      A16S
ATOM  12940  O4* C   A 624     127.448  85.793  19.317  1.00 41.74      A16S
ATOM  12941  C1* C   A 624     126.356  86.608  19.707  1.00 41.74      A16S
ATOM  12942  N1  C   A 624     126.780  88.016  19.679  1.00 57.31      A16S
ATOM  12943  C6  C   A 624     127.851  88.412  18.935  1.00 57.31      A16S
ATOM  12944  C2  C   A 624     126.053  88.948  20.418  1.00 57.31      A16S
ATOM  12945  O2  C   A 624     125.098  88.559  21.102  1.00 57.31      A16S
ATOM  12946  N3  C   A 624     126.406  90.244  20.370  1.00 57.31      A16S
ATOM  12947  C4  C   A 624     127.441  90.621  19.624  1.00 57.31      A16S
ATOM  12948  N4  C   A 624     127.747  91.914  19.589  1.00 57.31      A16S
ATOM  12949  C5  C   A 624     128.209  89.690  18.878  1.00 57.31      A16S
ATOM  12950  C2* C   A 624     125.177  86.322  18.768  1.00 41.74      A16S
ATOM  12951  O2* C   A 624     124.245  85.480  19.422  1.00 41.74      A16S
ATOM  12952  C3* C   A 624     125.876  85.692  17.563  1.00 41.74      A16S
ATOM  12953  O3* C   A 624     125.034  84.778  16.876  1.00 41.74      A16S
ATOM  12954  P   G   A 625     123.953  85.317  15.813  1.00 42.70      A16S
ATOM  12955  O1P G   A 625     123.288  84.138  15.207  1.00 62.85      A16S
ATOM  12956  O2P G   A 625     124.572  86.333  14.930  1.00 62.85      A16S
ATOM  12957  O5* G   A 625     122.867  86.033  16.715  1.00 42.70      A16S
ATOM  12958  C5* G   A 625     121.909  85.268  17.434  1.00 42.70      A16S
ATOM  12959  C4* G   A 625     120.862  86.178  17.988  1.00 42.70      A16S
ATOM  12960  O4* G   A 625     121.519  87.142  18.846  1.00 42.70      A16S
ATOM  12961  C1* G   A 625     120.870  88.399  18.742  1.00 42.70      A16S
ATOM  12962  N9  G   A 625     121.844  89.393  18.294  1.00 62.85      A16S
ATOM  12963  C4  G   A 625     121.733  90.760  18.403  1.00 62.85      A16S
ATOM  12964  N3  G   A 625     120.696  91.430  18.937  1.00 62.85      A16S
ATOM  12965  C2  G   A 625     120.886  92.730  18.910  1.00 62.85      A16S
ATOM  12966  N2  G   A 625     119.950  93.540  19.395  1.00 62.85      A16S
ATOM  12967  N1  G   A 625     122.003  93.332  18.405  1.00 62.85      A16S
ATOM  12968  C6  G   A 625     123.082  92.666  17.846  1.00 62.85      A16S
ATOM  12969  O6  G   A 625     124.048  93.306  17.414  1.00 62.85      A16S
ATOM  12970  C5  G   A 625     122.892  91.266  17.863  1.00 62.85      A16S
ATOM  12971  N7  G   A 625     123.713  90.242  17.411  1.00 62.85      A16S
ATOM  12972  C8  G   A 625     123.053  89.152  17.687  1.00 62.85      A16S
ATOM  12973  C2* G   A 625     119.690  88.224  17.787  1.00 42.70      A16S
ATOM  12974  O2* G   A 625     118.545  87.892  18.542  1.00 42.70      A16S
ATOM  12975  C3* G   A 625     120.141  87.034  16.962  1.00 42.70      A16S
ATOM  12976  O3* G   A 625     119.041  86.370  16.371  1.00 42.70      A16S
ATOM  12977  P   U   A 626     118.506  86.872  14.948  1.00 55.36      A16S
ATOM  12978  O1P U   A 626     117.438  85.968  14.468  1.00 52.47      A16S
ATOM  12979  O2P U   A 626     119.693  87.138  14.083  1.00 52.47      A16S
ATOM  12980  O5* U   A 626     117.825  88.258  15.309  1.00 55.36      A16S
ATOM  12981  C5* U   A 626     116.678  88.299  16.169  1.00 55.36      A16S
ATOM  12982  C4* U   A 626     116.212  89.719  16.339  1.00 55.36      A16S
ATOM  12983  O4* U   A 626     117.204  90.479  17.075  1.00 55.36      A16S
ATOM  12984  C1* U   A 626     117.269  91.798  16.568  1.00 55.36      A16S
ATOM  12985  N1  U   A 626     118.638  92.033  16.076  1.00 52.47      A16S
ATOM  12986  C6  U   A 626     119.427  90.991  15.654  1.00 52.47      A16S
ATOM  12987  C2  U   A 626     119.115  93.343  16.050  1.00 52.47      A16S
ATOM  12988  O2  U   A 626     118.454  94.303  16.399  1.00 52.47      A16S
ATOM  12989  N3  U   A 626     120.400  93.482  15.593  1.00 52.47      A16S
ATOM  12990  C4  U   A 626     121.237  92.480  15.162  1.00 52.47      A16S
ATOM  12991  O4  U   A 626     122.379  92.762  14.799  1.00 52.47      A16S
ATOM  12992  C5  U   A 626     120.673  91.165  15.209  1.00 52.47      A16S
ATOM  12993  C2* U   A 626     116.199  91.920  15.482  1.00 55.36      A16S
ATOM  12994  O2* U   A 626     114.986  92.387  16.041  1.00 55.36      A16S
ATOM  12995  C3* U   A 626     116.052  90.479  15.043  1.00 55.36      A16S
ATOM  12996  O3* U   A 626     114.810  90.234  14.438  1.00 55.36      A16S
ATOM  12997  P   G   A 627     114.701  90.323  12.848  1.00 47.98      A16S
ATOM  12998  O1P G   A 627     113.360  89.825  12.468  1.00 58.42      A16S
ATOM  12999  O2P G   A 627     115.913  89.685  12.276  1.00 58.42      A16S
ATOM  13000  O5* G   A 627     114.758  91.891  12.554  1.00 47.98      A16S
ATOM  13001  C5* G   A 627     113.753  92.770  13.088  1.00 47.98      A16S
ATOM  13002  C4* G   A 627     114.198  94.213  13.014  1.00 47.98      A16S
ATOM  13003  O4* G   A 627     115.363  94.424  13.849  1.00 47.98      A16S
ATOM  13004  C1* G   A 627     116.138  95.483  13.316  1.00 47.98      A16S
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ATOM  13005  N9  G   A 627     117.500  95.021  13.081  1.00 58.42      A16S
ATOM  13006  C4  G   A 627     118.586  95.817  12.820  1.00 58.42      A16S
ATOM  13007  N3  G   A 627     118.581  97.161  12.749  1.00 58.42      A16S
ATOM  13008  C2  G   A 627     119.776  97.640  12.474  1.00 58.42      A16S
ATOM  13009  N2  G   A 627     119.953  98.951  12.363  1.00 58.42      A16S
ATOM  13010  N1  G   A 627     120.888  96.866  12.284  1.00 58.42      A16S
ATOM  13011  C6  G   A 627     120.914  95.479  12.344  1.00 58.42      A16S
ATOM  13012  O6  G   A 627     121.968  94.872  12.135  1.00 58.42      A16S
ATOM  13013  C5  G   A 627     119.640  94.952  12.643  1.00 58.42      A16S
ATOM  13014  N7  G   A 627     119.229  93.639  12.799  1.00 58.42      A16S
ATOM  13015  C8  G   A 627     117.953  93.729  13.059  1.00 58.42      A16S
ATOM  13016  C2* G   A 627     115.473  95.948  12.022  1.00 47.98      A16S
ATOM  13017  O2* G   A 627     114.712  97.104  12.287  1.00 47.98      A16S
ATOM  13018  C3* G   A 627     114.613  94.749  11.656  1.00 47.98      A16S
ATOM  13019  O3* G   A 627     113.502  95.156  10.879  1.00 47.98      A16S
ATOM  13020  P   G   A 628     113.677  95.361   9.294  1.00 64.93      A16S
ATOM  13021  O1P G   A 628     112.344  95.770   8.773  1.00 79.56      A16S
ATOM  13022  O2P G   A 628     114.352  94.166   8.720  1.00 79.56      A16S
ATOM  13023  O5* G   A 628     114.679  96.599   9.173  1.00 64.93      A16S
ATOM  13024  C5* G   A 628     114.299  97.896   9.671  1.00 64.93      A16S
ATOM  13025  C4* G   A 628     115.400  98.902   9.446  1.00 64.93      A16S
ATOM  13026  O4* G   A 628     116.551  98.588  10.262  1.00 64.93      A16S
ATOM  13027  C1* G   A 628     117.735  98.964   9.576  1.00 64.93      A16S
ATOM  13028  N9  G   A 628     118.602  97.791   9.446  1.00 79.56      A16S
ATOM  13029  C4  G   A 628     119.952  97.794   9.160  1.00 79.56      A16S
ATOM  13030  N3  G   A 628     120.722  98.884   8.964  1.00 79.56      A16S
ATOM  13031  C2  G   A 628     121.973  98.561   8.700  1.00 79.56      A16S
ATOM  13032  N2  G   A 628     122.879  99.521   8.493  1.00 79.56      A16S
ATOM  13033  N1  G   A 628     122.432  97.275   8.625  1.00 79.56      A16S
ATOM  13034  C6  G   A 628     121.658  96.140   8.824  1.00 79.56      A16S
ATOM  13035  O6  G   A 628     122.172  95.022   8.738  1.00 79.56      A16S
ATOM  13036  C5  G   A 628     120.317  96.468   9.114  1.00 79.56      A16S
ATOM  13037  N7  G   A 628     119.231  95.646   9.376  1.00 79.56      A16S
ATOM  13038  C8  G   A 628     118.238  96.471   9.568  1.00 79.56      A16S
ATOM  13039  C2* G   A 628     117.329  99.567   8.226  1.00 64.93      A16S
ATOM  13040  O2* G   A 628     117.340 100.974   8.312  1.00 64.93      A16S
ATOM  13041  C3* G   A 628     115.931  98.993   8.028  1.00 64.93      A16S
ATOM  13042  O3* G   A 628     115.108  99.849   7.251  1.00 64.93      A16S
ATOM  13043  P   G   A 629     115.014  99.634   5.667  1.00 96.87      A16S
ATOM  13044  O1P G   A 629     113.921 100.508   5.156  1.00 76.98      A16S
ATOM  13045  O2P G   A 629     114.985  98.175   5.380  1.00 76.98      A16S
ATOM  13046  O5* G   A 629     116.401 100.208   5.151  1.00 96.87      A16S
ATOM  13047  C5* G   A 629     116.721 101.595   5.324  1.00 96.87      A16S
ATOM  13048  C4* G   A 629     118.088 101.882   4.773  1.00 96.87      A16S
ATOM  13049  O4* G   A 629     119.104 101.363   5.670  1.00 96.87      A16S
ATOM  13050  C1* G   A 629     120.208 100.887   4.915  1.00 96.87      A16S
ATOM  13051  N9  G   A 629     120.400  99.463   5.201  1.00 76.98      A16S
ATOM  13052  C4  G   A 629     121.566  98.740   5.046  1.00 76.98      A16S
ATOM  13053  N3  G   A 629     122.747  99.217   4.599  1.00 76.98      A16S
ATOM  13054  C2  G   A 629     123.682  98.279   4.565  1.00 76.98      A16S
ATOM  13055  N2  G   A 629     124.919  98.582   4.152  1.00 76.98      A16S
ATOM  13056  N1  G   A 629     123.476  96.977   4.932  1.00 76.98      A16S
ATOM  13057  C6  G   A 629     122.273  96.459   5.389  1.00 76.98      A16S
ATOM  13058  O6  G   A 629     122.197  95.261   5.687  1.00 76.98      A16S
ATOM  13059  C5  G   A 629     121.256  97.458   5.439  1.00 76.98      A16S
ATOM  13060  N7  G   A 629     119.927  97.370   5.828  1.00 76.98      A16S
ATOM  13061  C8  G   A 629     119.461  98.578   5.670  1.00 76.98      A16S
ATOM  13062  C2* G   A 629     119.908 101.172   3.441  1.00 96.87      A16S
ATOM  13063  O2* G   A 629     120.477 102.417   3.085  1.00 96.87      A16S
ATOM  13064  C3* G   A 629     118.388 101.227   3.438  1.00 96.87      A16S
ATOM  13065  O3* G   A 629     117.850 101.951   2.341  1.00 96.87      A16S
ATOM  13066  P   G   A 630     117.665 101.216   0.919  1.00136.33      A16S
ATOM  13067  O1P G   A 630     116.796 102.075   0.082  1.00118.78      A16S
ATOM  13068  O2P G   A 630     117.292  99.797   1.135  1.00118.78      A16S
ATOM  13069  O5* G   A 630     119.131 101.251   0.300  1.00136.33      A16S
ATOM  13070  C5* G   A 630     119.895 102.473   0.311  1.00136.33      A16S
ATOM  13071  C4* G   A 630     121.360 102.187   0.081  1.00136.33      A16S
ATOM  13072  O4* G   A 630     121.861 101.321   1.134  1.00136.33      A16S
ATOM  13073  C1* G   A 630     122.823 100.426   0.603  1.00136.33      A16S
ATOM  13074  N9  G   A 630     122.340  99.060   0.808  1.00118.78      A16S
ATOM  13075  C4  G   A 630     123.112  97.926   0.948  1.00118.78      A16S
ATOM  13076  N3  G   A 630     124.460  97.877   0.943  1.00118.78      A16S
ATOM  13077  C2  G   A 630     124.909  96.643   1.085  1.00118.78      A16S
ATOM  13078  N2  G   A 630     126.228  96.413   1.107  1.00118.78      A16S
ATOM  13079  N1  G   A 630     124.098  95.544   1.216  1.00118.78      A16S
ATOM  13080  C6  G   A 630     122.710  95.570   1.220  1.00118.78      A16S
ATOM  13081  O6  G   A 630     122.077  94.518   1.331  1.00118.78      A16S
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ATOM  13082  C5  G   A 630     122.214  96.887   1.079  1.00118.78      A16S
ATOM  13083  N7  G   A 630     120.908  97.355   1.041  1.00118.78      A16S
ATOM  13084  C8  G   A 630     121.029  98.645   0.882  1.00118.78      A16S
ATOM  13085  C2* G   A 630     123.016 100.778  -0.877  1.00136.33      A16S
ATOM  13086  O2* G   A 630     124.131 101.640  -1.020  1.00136.33      A16S
ATOM  13087  C3* G   A 630     121.690 101.457  -1.209  1.00136.33      A16S
ATOM  13088  O3* G   A 630     121.771 102.359  -2.310  1.00136.33      A16S
ATOM  13089  P   G   A 631     121.083 101.966  -3.711  1.00127.65      A16S
ATOM  13090  O1P G   A 631     119.732 101.405  -3.434  1.00158.61      A16S
ATOM  13091  O2P G   A 631     121.221 103.126  -4.628  1.00158.61      A16S
ATOM  13092  O5* G   A 631     121.993 100.778  -4.256  1.00127.65      A16S
ATOM  13093  C5* G   A 631     123.421 100.941  -4.379  1.00127.65      A16S
ATOM  13094  C4* G   A 631     124.083  99.619  -4.697  1.00127.65      A16S
ATOM  13095  O4* G   A 631     124.056  98.741  -3.542  1.00127.65      A16S
ATOM  13096  C1* G   A 631     123.912  97.395  -3.968  1.00127.65      A16S
ATOM  13097  N9  G   A 631     122.714  96.829  -3.344  1.00158.61      A16S
ATOM  13098  C4  G   A 631     122.403  95.490  -3.219  1.00158.61      A16S
ATOM  13099  N3  G   A 631     123.151  94.456  -3.657  1.00158.61      A16S
ATOM  13100  C2  G   A 631     122.583  93.291  -3.395  1.00158.61      A16S
ATOM  13101  N2  G   A 631     123.188  92.155  -3.764  1.00158.61      A16S
ATOM  13102  N1  G   A 631     121.378  93.153  -2.751  1.00158.61      A16S
ATOM  13103  C6  G   A 631     120.593  94.204  -2.290  1.00158.61      A16S
ATOM  13104  O6  G   A 631     119.522  93.969  -1.719  1.00158.61      A16S
ATOM  13105  C5  G   A 631     121.187  95.457  -2.566  1.00158.61      A16S
ATOM  13106  N7  G   A 631     120.741  96.740  -2.286  1.00158.61      A16S
ATOM  13107  C8  G   A 631     121.674  97.519  -2.763  1.00158.61      A16S
ATOM  13108  C2* G   A 631     123.884  97.392  -5.500  1.00127.65      A16S
ATOM  13109  O2* G   A 631     125.187  97.105  -5.975  1.00127.65      A16S
ATOM  13110  C3* G   A 631     123.438  98.820  -5.813  1.00127.65      A16S
ATOM  13111  O3* G   A 631     123.901  99.275  -7.078  1.00127.65      A16S
ATOM  13112  P   A   A 632     122.865  99.919  -8.132  1.00 95.02      A16S
ATOM  13113  O1P A   A 632     122.789 101.380  -7.862  1.00104.55      A16S
ATOM  13114  O2P A   A 632     121.613  99.117  -8.149  1.00104.55      A16S
ATOM  13115  O5* A   A 632     123.609  99.711  -9.528  1.00 95.02      A16S
ATOM  13116  C5* A   A 632     124.919 100.265  -9.746  1.00 95.02      A16S
ATOM  13117  C4* A   A 632     125.914  99.177 -10.088  1.00 95.02      A16S
ATOM  13118  O4* A   A 632     126.046  98.243  -8.984  1.00 95.02      A16S
ATOM  13119  C1* A   A 632     126.354  96.949  -9.489  1.00 95.02      A16S
ATOM  13120  N9  A   A 632     125.294  96.014  -9.102  1.00104.55      A16S
ATOM  13121  C4  A   A 632     125.423  94.648  -9.006  1.00104.55      A16S
ATOM  13122  N3  A   A 632     126.530  93.917  -9.223  1.00104.55      A16S
ATOM  13123  C2  A   A 632     126.276  92.621  -9.051  1.00104.55      A16S
ATOM  13124  N1  A   A 632     125.129  92.020  -8.709  1.00104.55      A16S
ATOM  13125  C6  A   A 632     124.037  92.786  -8.499  1.00104.55      A16S
ATOM  13126  N6  A   A 632     122.893  92.190  -8.158  1.00104.55      A16S
ATOM  13127  C5  A   A 632     124.174  94.175  -8.653  1.00104.55      A16S
ATOM  13128  N7  A   A 632     123.272  95.219  -8.523  1.00104.55      A16S
ATOM  13129  C8  A   A 632     123.983  96.285  -8.794  1.00104.55      A16S
ATOM  13130  C2* A   A 632     126.432  97.059 -11.010  1.00 95.02      A16S
ATOM  13131  O2* A   A 632     127.770  97.237 -11.424  1.00 95.02      A16S
ATOM  13132  C3* A   A 632     125.582  98.290 -11.271  1.00 95.02      A16S
ATOM  13133  O3* A   A 632     125.914  98.867 -12.510  1.00 95.02      A16S
ATOM  13134  P   G   A 633     125.006  98.535 -13.788  1.00 47.71      A16S
ATOM  13135  O1P G   A 633     125.710  99.062 -14.989  1.00 72.79      A16S
ATOM  13136  O2P G   A 633     123.615  98.981 -13.503  1.00 72.79      A16S
ATOM  13137  O5* G   A 633     125.007  96.942 -13.874  1.00 47.71      A16S
ATOM  13138  C5* G   A 633     126.219  96.220 -14.175  1.00 47.71      A16S
ATOM  13139  C4* G   A 633     125.946  94.738 -14.287  1.00 47.71      A16S
ATOM  13140  O4* G   A 633     125.690  94.174 -12.977  1.00 47.71      A16S
ATOM  13141  C1* G   A 633     124.649  93.216 -13.059  1.00 47.71      A16S
ATOM  13142  N9  G   A 633     123.486  93.757 -12.353  1.00 72.79      A16S
ATOM  13143  C4  G   A 633     122.518  93.048 -11.681  1.00 72.79      A16S
ATOM  13144  N3  G   A 633     122.476  91.708 -11.526  1.00 72.79      A16S
ATOM  13145  C2  G   A 633     121.413  91.323 -10.844  1.00 72.79      A16S
ATOM  13146  N2  G   A 633     121.222  90.022 -10.589  1.00 72.79      A16S
ATOM  13147  N1  G   A 633     120.461  92.184 -10.359  1.00 72.79      A16S
ATOM  13148  C6  G   A 633     120.481  93.567 -10.509  1.00 72.79      A16S
ATOM  13149  O6  G   A 633     119.562  94.256 -10.042  1.00 72.79      A16S
ATOM  13150  C5  G   A 633     121.622  93.993 -11.228  1.00 72.79      A16S
ATOM  13151  N7  G   A 633     122.025  95.269 -11.590  1.00 72.79      A16S
ATOM  13152  C8  G   A 633     123.132  95.082 -12.251  1.00 72.79      A16S
ATOM  13153  C2* G   A 633     124.349  93.019 -14.545  1.00 47.71      A16S
ATOM  13154  O2* G   A 633     125.162  91.982 -15.052  1.00 47.71      A16S
ATOM  13155  C3* G   A 633     124.731  94.376 -15.109  1.00 47.71      A16S
ATOM  13156  O3* G   A 633     125.013  94.340 -16.485  1.00 47.71      A16S
ATOM  13157  P   C   A 634     123.850  94.699 -17.525  1.00 39.01      A16S
ATOM  13158  O1P C   A 634     124.402  94.603 -18.899  1.00 53.90      A16S
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ATOM  13159  O2P C   A 634     123.208  95.955 -17.077  1.00 53.90      A16S
ATOM  13160  O5* C   A 634     122.799  93.521 -17.341  1.00 39.01      A16S
ATOM  13161  C5* C   A 634     123.167  92.168 -17.652  1.00 39.01      A16S
ATOM  13162  C4* C   A 634     122.092  91.206 -17.211  1.00 39.01      A16S
ATOM  13163  O4* C   A 634     121.990  91.188 -15.762  1.00 39.01      A16S
ATOM  13164  C1* C   A 634     120.649  90.947 -15.390  1.00 39.01      A16S
ATOM  13165  N1   C   A 634     120.149  92.109 -14.647  1.00 53.90      A16S
ATOM  13166  C6   C   A 634     120.733  93.335 -14.775  1.00 53.90      A16S
ATOM  13167  C2   C   A 634     119.032  91.947 -13.846  1.00 53.90      A16S
ATOM  13168  O2   C   A 634     118.559  90.816 -13.705  1.00 53.90      A16S
ATOM  13169  N3   C   A 634     118.491  93.022 -13.248  1.00 53.90      A16S
ATOM  13170  C4   C   A 634     119.030  94.223 -13.428  1.00 53.90      A16S
ATOM  13171  N4   C   A 634     118.420  95.270 -12.873  1.00 53.90      A16S
ATOM  13172  C5   C   A 634     120.205  94.408 -14.194  1.00 53.90      A16S
ATOM  13173  C2* C   A 634     119.835  90.774 -16.676  1.00 39.01      A16S
ATOM  13174  O2* C   A 634     119.710  89.405 -16.969  1.00 39.01      A16S
ATOM  13175  C3* C   A 634     120.690  91.507 -17.694  1.00 39.01      A16S
ATOM  13176  O3* C   A 634     120.479  91.028 -19.005  1.00 39.01      A16S
ATOM  13177  P    G   A 635     119.359  91.720 -19.924  1.00 39.85      A16S
ATOM  13178  O1P G   A 635     119.393  91.145 -21.303  1.00 52.90      A16S
ATOM  13179  O2P G   A 635     119.494  93.189 -19.736  1.00 52.90      A16S
ATOM  13180  O5* G   A 635     117.998  91.222 -19.273  1.00 39.85      A16S
ATOM  13181  C5* G   A 635     117.619  89.852 -19.378  1.00 39.85      A16S
ATOM  13182  C4* G   A 635     116.243  89.638 -18.817  1.00 39.85      A16S
ATOM  13183  O4* G   A 635     116.252  89.859 -17.387  1.00 39.85      A16S
ATOM  13184  C1* G   A 635     114.965  90.281 -16.971  1.00 39.85      A16S
ATOM  13185  N9   G   A 635     115.085  91.549 -16.261  1.00 52.90      A16S
ATOM  13186  C4   G   A 635     114.088  92.168 -15.554  1.00 52.90      A16S
ATOM  13187  N3   G   A 635     112.837  91.702 -15.385  1.00 52.90      A16S
ATOM  13188  C2   G   A 635     112.102  92.524 -14.667  1.00 52.90      A16S
ATOM  13189  N2   G   A 635     110.831  92.212 -14.396  1.00 52.90      A16S
ATOM  13190  N1   G   A 635     112.555  93.712 -14.158  1.00 52.90      A16S
ATOM  13191  C6   G   A 635     113.839  94.214 -14.322  1.00 52.90      A16S
ATOM  13192  O6   G   A 635     114.144  95.301 -13.826  1.00 52.90      A16S
ATOM  13193  C5   G   A 635     114.642  93.340 -15.086  1.00 52.90      A16S
ATOM  13194  N7   G   A 635     115.969  93.452 -15.483  1.00 52.90      A16S
ATOM  13195  C8   G   A 635     116.189  92.365 -16.174  1.00 52.90      A16S
ATOM  13196  C2* G   A 635     114.094  90.406 -18.220  1.00 39.85      A16S
ATOM  13197  O2* G   A 635     113.364  89.215 -18.390  1.00 39.85      A16S
ATOM  13198  C3* G   A 635     115.132  90.542 -19.318  1.00 39.85      A16S
ATOM  13199  O3* G   A 635     114.594  90.103 -20.547  1.00 39.85      A16S
ATOM  13200  P    U   A 636     113.807  91.145 -21.477  1.00 43.63      A16S
ATOM  13201  O1P U   A 636     113.397  90.375 -22.684  1.00 40.34      A16S
ATOM  13202  O2P U   A 636     114.602  92.393 -21.631  1.00 40.34      A16S
ATOM  13203  O5* U   A 636     112.536  91.548 -20.608  1.00 43.63      A16S
ATOM  13204  C5* U   A 636     111.488  90.608 -20.343  1.00 43.63      A16S
ATOM  13205  C4* U   A 636     110.344  91.295 -19.641  1.00 43.63      A16S
ATOM  13206  O4* U   A 636     110.753  91.699 -18.313  1.00 43.63      A16S
ATOM  13207  C1* U   A 636     110.139  92.926 -17.971  1.00 43.63      A16S
ATOM  13208  N1   U   A 636     111.193  93.915 -17.695  1.00 40.34      A16S
ATOM  13209  C6   U   A 636     112.469  93.728 -18.134  1.00 40.34      A16S
ATOM  13210  C2   U   A 636     110.852  95.047 -16.976  1.00 40.34      A16S
ATOM  13211  O2   U   A 636     109.725  95.262 -16.568  1.00 40.34      A16S
ATOM  13212  N3   U   A 636     111.875  95.923 -16.752  1.00 40.34      A16S
ATOM  13213  C4   U   A 636     113.173  95.787 -17.159  1.00 40.34      A16S
ATOM  13214  O4   U   A 636     114.011  96.622 -16.804  1.00 40.34      A16S
ATOM  13215  C5   U   A 636     113.441  94.599 -17.899  1.00 40.34      A16S
ATOM  13216  C2* U   A 636     109.232  93.323 -19.133  1.00 43.63      A16S
ATOM  13217  O2* U   A 636     107.928  92.855 -18.876  1.00 43.63      A16S
ATOM  13218  C3* U   A 636     109.874  92.579 -20.288  1.00 43.63      A16S
ATOM  13219  O3* U   A 636     108.964  92.334 -21.336  1.00 43.63      A16S
ATOM  13220  P    G   A 637     108.803  93.426 -22.494  1.00 43.35      A16S
ATOM  13221  O1P G   A 637     107.915  92.856 -23.538  1.00 52.75      A16S
ATOM  13222  O2P G   A 637     110.162  93.886 -22.876  1.00 52.75      A16S
ATOM  13223  O5* G   A 637     108.059  94.618 -21.741  1.00 43.35      A16S
ATOM  13224  C5* G   A 637     106.705  94.445 -21.293  1.00 43.35      A16S
ATOM  13225  C4* G   A 637     106.207  95.686 -20.609  1.00 43.35      A16S
ATOM  13226  O4* G   A 637     106.897  95.856 -19.353  1.00 43.35      A16S
ATOM  13227  C1* G   A 637     107.063  97.237 -19.085  1.00 43.35      A16S
ATOM  13228  N9   G   A 637     108.490  97.529 -19.014  1.00 52.75      A16S
ATOM  13229  C4   G   A 637     109.063  98.652 -18.472  1.00 52.75      A16S
ATOM  13230  N3   G   A 637     108.404  99.670 -17.883  1.00 52.75      A16S
ATOM  13231  C2   G   A 637     109.227 100.612 -17.472  1.00 52.75      A16S
ATOM  13232  N2   G   A 637     108.750 101.688 -16.856  1.00 52.75      A16S
ATOM  13233  N1   G   A 637     110.587 100.567 -17.635  1.00 52.75      A16S
ATOM  13234  C6   G   A 637     111.285  99.534 -18.254  1.00 52.75      A16S
ATOM  13235  O6   G   A 637     112.515  99.606 -18.384  1.00 52.75      A16S
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ATOM  13236  C5  G   A 637     110.416  98.507 -18.679  1.00 52.75      A16S
ATOM  13237  N7  G   A 637     110.692  97.307 -19.316  1.00 52.75      A16S
ATOM  13238  C8  G   A 637     109.522  96.760 -19.495  1.00 52.75      A16S
ATOM  13239  C2* G   A 637     106.407  98.008 -20.227  1.00 43.35      A16S
ATOM  13240  O2* G   A 637     105.093  98.354 -19.861  1.00 43.35      A16S
ATOM  13241  C3* G   A 637     106.445  96.985 -21.345  1.00 43.35      A16S
ATOM  13242  O3* G   A 637     105.468  97.242 -22.327  1.00 43.35      A16S
ATOM  13243  P   G   A 638     105.852  98.151 -23.588  1.00 53.99      A16S
ATOM  13244  O1P G   A 638     107.190  97.721 -24.054  1.00 51.38      A16S
ATOM  13245  O2P G   A 638     104.712  98.127 -24.535  1.00 51.38      A16S
ATOM  13246  O5* G   A 638     105.982  99.600 -22.952  1.00 53.99      A16S
ATOM  13247  C5* G   A 638     104.849 100.197 -22.337  1.00 53.99      A16S
ATOM  13248  C4* G   A 638     105.217 101.496 -21.680  1.00 53.99      A16S
ATOM  13249  O4* G   A 638     106.091 101.245 -20.552  1.00 53.99      A16S
ATOM  13250  C1* G   A 638     106.956 102.356 -20.366  1.00 53.99      A16S
ATOM  13251  N9  G   A 638     108.337 101.917 -20.567  1.00 51.38      A16S
ATOM  13252  C4  G   A 638     109.466 102.615 -20.214  1.00 51.38      A16S
ATOM  13253  N3  G   A 638     109.493 103.814 -19.596  1.00 51.38      A16S
ATOM  13254  C2  G   A 638     110.724 104.236 -19.392  1.00 51.38      A16S
ATOM  13255  N2  G   A 638     110.926 105.398 -18.774  1.00 51.38      A16S
ATOM  13256  N1  G   A 638     111.845 103.546 -19.772  1.00 51.38      A16S
ATOM  13257  C6  G   A 638     111.846 102.308 -20.408  1.00 51.38      A16S
ATOM  13258  O6  G   A 638     112.922 101.761 -20.700  1.00 51.38      A16S
ATOM  13259  C5  G   A 638     110.524 101.837 -20.630  1.00 51.38      A16S
ATOM  13260  N7  G   A 638     110.071 100.664 -21.222  1.00 51.38      A16S
ATOM  13261  C8  G   A 638     108.771 100.753 -21.160  1.00 51.38      A16S
ATOM  13262  C2* G   A 638     106.568 103.401 -21.411  1.00 53.99      A16S
ATOM  13263  O2* G   A 638     105.594 104.279 -20.867  1.00 53.99      A16S
ATOM  13264  C3* G   A 638     105.974 102.525 -22.499  1.00 53.99      A16S
ATOM  13265  O3* G   A 638     105.164 103.281 -23.374  1.00 53.99      A16S
ATOM  13266  P   G   A 639     105.822 103.905 -24.701  1.00 56.36      A16S
ATOM  13267  O1P G   A 639     106.630 102.840 -25.367  1.00 60.18      A16S
ATOM  13268  O2P G   A 639     104.744 104.583 -25.465  1.00 60.18      A16S
ATOM  13269  O5* G   A 639     106.815 105.016 -24.134  1.00 56.36      A16S
ATOM  13270  C5* G   A 639     106.295 106.160 -23.459  1.00 56.36      A16S
ATOM  13271  C4* G   A 639     107.408 107.035 -22.946  1.00 56.36      A16S
ATOM  13272  O4* G   A 639     108.261 106.270 -22.057  1.00 56.36      A16S
ATOM  13273  C1* G   A 639     109.568 106.828 -22.051  1.00 56.36      A16S
ATOM  13274  N9  G   A 639     110.537 105.807 -22.445  1.00 60.18      A16S
ATOM  13275  C4  G   A 639     111.902 105.930 -22.371  1.00 60.18      A16S
ATOM  13276  N3  G   A 639     112.572 106.985 -21.871  1.00 60.18      A16S
ATOM  13277  C2  G   A 639     113.876 106.832 -21.981  1.00 60.18      A16S
ATOM  13278  N2  G   A 639     114.692 107.788 -21.538  1.00 60.18      A16S
ATOM  13279  N1  G   A 639     114.475 105.734 -22.537  1.00 60.18      A16S
ATOM  13280  C6  G   A 639     113.803 104.639 -23.059  1.00 60.18      A16S
ATOM  13281  O6  G   A 639     114.435 103.710 -23.554  1.00 60.18      A16S
ATOM  13282  C5  G   A 639     112.404 104.783 -22.941  1.00 60.18      A16S
ATOM  13283  N7  G   A 639     111.379 103.933 -23.325  1.00 60.18      A16S
ATOM  13284  C8  G   A 639     110.290 104.575 -23.002  1.00 60.18      A16S
ATOM  13285  C2* G   A 639     109.571 107.988 -23.050  1.00 56.36      A16S
ATOM  13286  O2* G   A 639     109.429 109.215 -22.353  1.00 56.36      A16S
ATOM  13287  C3* G   A 639     108.383 107.634 -23.943  1.00 56.36      A16S
ATOM  13288  O3* G   A 639     107.865 108.773 -24.608  1.00 56.36      A16S
ATOM  13289  P   A   A 640     108.502 109.225 -26.016  1.00 53.41      A16S
ATOM  13290  O1P A   A 640     107.686 110.359 -26.506  1.00 52.96      A16S
ATOM  13291  O2P A   A 640     108.707 108.040 -26.887  1.00 52.96      A16S
ATOM  13292  O5* A   A 640     109.915 109.823 -25.606  1.00 53.41      A16S
ATOM  13293  C5* A   A 640     109.978 110.901 -24.666  1.00 53.41      A16S
ATOM  13294  C4* A   A 640     111.382 111.421 -24.544  1.00 53.41      A16S
ATOM  13295  O4* A   A 640     112.208 110.481 -23.818  1.00 53.41      A16S
ATOM  13296  C1* A   A 640     113.529 110.532 -24.320  1.00 53.41      A16S
ATOM  13297  N9  A   A 640     113.891 109.199 -24.815  1.00 52.96      A16S
ATOM  13298  C4  A   A 640     115.144 108.630 -24.809  1.00 52.96      A16S
ATOM  13299  N3  A   A 640     116.288 109.169 -24.358  1.00 52.96      A16S
ATOM  13300  C2  A   A 640     117.300 108.325 -24.520  1.00 52.96      A16S
ATOM  13301  N1  A   A 640     117.300 107.094 -25.035  1.00 52.96      A16S
ATOM  13302  C6  A   A 640     116.132 106.577 -25.467  1.00 52.96      A16S
ATOM  13303  N6  A   A 640     116.123 105.341 -25.961  1.00 52.96      A16S
ATOM  13304  C5  A   A 640     114.988 107.374 -25.362  1.00 52.96      A16S
ATOM  13305  N7  A   A 640     113.668 107.153 -25.712  1.00 52.96      A16S
ATOM  13306  C8  A   A 640     113.062 108.263 -25.371  1.00 52.96      A16S
ATOM  13307  C2* A   A 640     113.570 111.620 -25.398  1.00 53.41      A16S
ATOM  13308  O2* A   A 640     113.948 112.844 -24.794  1.00 53.41      A16S
ATOM  13309  C3* A   A 640     112.118 111.673 -25.846  1.00 53.41      A16S
ATOM  13310  O3* A   A 640     111.782 112.943 -26.392  1.00 53.41      A16S
ATOM  13311  P   U   A 641     111.783 113.150 -27.988  1.00 53.17      A16S
ATOM  13312  O1P U   A 641     111.372 114.553 -28.241  1.00 56.78      A16S
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ATOM  13313  O2P U   A 641     111.057 112.039 -28.656  1.00 56.78      A16S
ATOM  13314  O5* U   A 641     113.317 113.004 -28.389  1.00 53.17      A16S
ATOM  13315  C5* U   A 641     114.341 113.752 -27.708  1.00 53.17      A16S
ATOM  13316  C4* U   A 641     115.694 113.360 -28.230  1.00 53.17      A16S
ATOM  13317  O4* U   A 641     115.971 111.979 -27.872  1.00 53.17      A16S
ATOM  13318  C1* U   A 641     116.360 111.256 -29.022  1.00 53.17      A16S
ATOM  13319  N1  U   A 641     115.875 109.868 -28.908  1.00 56.78      A16S
ATOM  13320  C6  U   A 641     114.550 109.555 -29.081  1.00 56.78      A16S
ATOM  13321  C2  U   A 641     116.800 108.874 -28.637  1.00 56.78      A16S
ATOM  13322  O2  U   A 641     117.985 109.092 -28.457  1.00 56.78      A16S
ATOM  13323  N3  U   A 641     116.286 107.606 -28.584  1.00 56.78      A16S
ATOM  13324  C4  U   A 641     114.980 107.235 -28.773  1.00 56.78      A16S
ATOM  13325  O4  U   A 641     114.692 106.046 -28.790  1.00 56.78      A16S
ATOM  13326  C5  U   A 641     114.089 108.308 -29.026  1.00 56.78      A16S
ATOM  13327  C2* U   A 641     115.780 112.013 -30.213  1.00 53.17      A16S
ATOM  13328  O2* U   A 641     116.532 111.762 -31.383  1.00 53.17      A16S
ATOM  13329  C3* U   A 641     115.857 113.461 -29.740  1.00 53.17      A16S
ATOM  13330  O3* U   A 641     117.122 113.999 -30.057  1.00 53.17      A16S
ATOM  13331  P   A   A 642     117.213 115.408 -30.826  1.00 46.11      A16S
ATOM  13332  O1P A   A 642     116.565 116.419 -29.931  1.00 34.91      A16S
ATOM  13333  O2P A   A 642     116.731 115.236 -32.229  1.00 34.91      A16S
ATOM  13334  O5* A   A 642     118.774 115.707 -30.846  1.00 46.11      A16S
ATOM  13335  C5* A   A 642     119.262 116.988 -30.452  1.00 46.11      A16S
ATOM  13336  C4* A   A 642     120.529 116.842 -29.661  1.00 46.11      A16S
ATOM  13337  O4* A   A 642     120.240 116.310 -28.349  1.00 46.11      A16S
ATOM  13338  C1* A   A 642     121.317 115.495 -27.927  1.00 46.11      A16S
ATOM  13339  N9  A   A 642     120.817 114.129 -27.719  1.00 34.91      A16S
ATOM  13340  C4  A   A 642     121.472 113.132 -27.042  1.00 34.91      A16S
ATOM  13341  N3  A   A 642     122.670 113.211 -26.443  1.00 34.91      A16S
ATOM  13342  C2  A   A 642     122.974 112.064 -25.874  1.00 34.91      A16S
ATOM  13343  N1  A   A 642     122.272 110.922 -25.842  1.00 34.91      A16S
ATOM  13344  C6  A   A 642     121.080 110.877 -26.476  1.00 34.91      A16S
ATOM  13345  N6  A   A 642     120.395 109.735 -26.478  1.00 34.91      A16S
ATOM  13346  C5  A   A 642     120.642 112.030 -27.103  1.00 34.91      A16S
ATOM  13347  N7  A   A 642     119.491 112.317 -27.810  1.00 34.91      A16S
ATOM  13348  C8  A   A 642     119.637 113.570 -28.153  1.00 34.91      A16S
ATOM  13349  C2* A   A 642     122.390 115.560 -29.016  1.00 46.11      A16S
ATOM  13350  O2* A   A 642     123.266 116.625 -28.724  1.00 46.11      A16S
ATOM  13351  C3* A   A 642     121.561 115.897 -30.238  1.00 46.11      A16S
ATOM  13352  O3* A   A 642     122.335 116.536 -31.222  1.00 46.11      A16S
ATOM  13353  P   C   A 643     122.967 115.672 -32.410  1.00 41.81      A16S
ATOM  13354  O1P C   A 643     121.922 114.811 -33.000  1.00 47.93      A16S
ATOM  13355  O2P C   A 643     123.696 116.617 -33.282  1.00 47.93      A16S
ATOM  13356  O5* C   A 643     123.998 114.726 -31.648  1.00 41.81      A16S
ATOM  13357  C5* C   A 643     125.177 115.270 -31.006  1.00 41.81      A16S
ATOM  13358  C4* C   A 643     126.003 114.162 -30.384  1.00 41.81      A16S
ATOM  13359  O4* C   A 643     125.331 113.634 -29.212  1.00 41.81      A16S
ATOM  13360  C1* C   A 643     125.554 112.234 -29.117  1.00 41.81      A16S
ATOM  13361  N1  C   A 643     124.252 111.548 -29.240  1.00 47.93      A16S
ATOM  13362  C6  C   A 643     123.241 112.108 -29.964  1.00 47.93      A16S
ATOM  13363  C2  C   A 643     124.065 110.299 -28.621  1.00 47.93      A16S
ATOM  13364  O2  C   A 643     124.981 109.815 -27.930  1.00 47.93      A16S
ATOM  13365  N3  C   A 643     122.889 109.653 -28.787  1.00 47.93      A16S
ATOM  13366  C4  C   A 643     121.923 110.206 -29.516  1.00 47.93      A16S
ATOM  13367  N4  C   A 643     120.795 109.530 -29.669  1.00 47.93      A16S
ATOM  13368  C5  C   A 643     122.074 111.478 -30.125  1.00 47.93      A16S
ATOM  13369  C2* C   A 643     126.508 111.848 -30.246  1.00 41.81      A16S
ATOM  13370  O2* C   A 643     127.846 111.900 -29.795  1.00 41.81      A16S
ATOM  13371  C3* C   A 643     126.234 112.943 -31.257  1.00 41.81      A16S
ATOM  13372  O3* C   A 643     127.302 113.096 -32.158  1.00 41.81      A16S
ATOM  13373  P   G   A 644     127.205 112.389 -33.591  1.00 38.62      A16S
ATOM  13374  O1P G   A 644     128.318 112.937 -34.415  1.00 63.01      A16S
ATOM  13375  O2P G   A 644     125.805 112.515 -34.075  1.00 63.01      A16S
ATOM  13376  O5* G   A 644     127.461 110.844 -33.285  1.00 38.62      A16S
ATOM  13377  C5* G   A 644     128.708 110.413 -32.727  1.00 38.62      A16S
ATOM  13378  C4* G   A 644     128.670 108.942 -32.400  1.00 38.62      A16S
ATOM  13379  O4* G   A 644     127.865 108.714 -31.218  1.00 38.62      A16S
ATOM  13380  C1* G   A 644     127.237 107.443 -31.324  1.00 38.62      A16S
ATOM  13381  N9  G   A 644     125.783 107.600 -31.280  1.00 63.01      A16S
ATOM  13382  C4  G   A 644     124.885 106.566 -31.282  1.00 63.01      A16S
ATOM  13383  N3  G   A 644     125.198 105.257 -31.282  1.00 63.01      A16S
ATOM  13384  C2  G   A 644     124.130 104.494 -31.335  1.00 63.01      A16S
ATOM  13385  N2  G   A 644     124.269 103.169 -31.337  1.00 63.01      A16S
ATOM  13386  N1  G   A 644     122.851 104.974 -31.387  1.00 63.01      A16S
ATOM  13387  C6  G   A 644     122.504 106.316 -31.387  1.00 63.01      A16S
ATOM  13388  O6  G   A 644     121.327 106.633 -31.445  1.00 63.01      A16S
ATOM  13389  C5  G   A 644     123.646 107.152 -31.322  1.00 63.01      A16S
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ATOM  13390  N7  G   A 644     123.755 108.536 -31.308  1.00 63.01      A16S
ATOM  13391  C8  G   A 644     125.041 108.756 -31.273  1.00 63.01      A16S
ATOM  13392  C2* G   A 644     127.666 106.810 -32.651  1.00 38.62      A16S
ATOM  13393  O2* G   A 644     128.733 105.920 -32.441  1.00 38.62      A16S
ATOM  13394  C3* G   A 644     128.076 108.027 -33.458  1.00 38.62      A16S
ATOM  13395  O3* G   A 644     128.993 107.675 -34.470  1.00 38.62      A16S
ATOM  13396  P   C   A 645     128.467 107.504 -35.973  1.00 47.82      A16S
ATOM  13397  O1P C   A 645     129.622 107.254 -36.862  1.00 55.60      A16S
ATOM  13398  O2P C   A 645     127.564 108.644 -36.253  1.00 55.60      A16S
ATOM  13399  O5* C   A 645     127.608 106.171 -35.904  1.00 47.82      A16S
ATOM  13400  C5* C   A 645     128.199 104.959 -35.428  1.00 47.82      A16S
ATOM  13401  C4* C   A 645     127.179 103.851 -35.383  1.00 47.82      A16S
ATOM  13402  O4* C   A 645     126.226 104.083 -34.318  1.00 47.82      A16S
ATOM  13403  C1* C   A 645     124.944 103.638 -34.722  1.00 47.82      A16S
ATOM  13404  N1  C   A 645     124.042 104.805 -34.737  1.00 55.60      A16S
ATOM  13405  C6  C   A 645     124.517 106.058 -34.459  1.00 55.60      A16S
ATOM  13406  C2  C   A 645     122.692 104.618 -35.046  1.00 55.60      A16S
ATOM  13407  O2  C   A 645     122.282 103.470 -35.298  1.00 55.60      A16S
ATOM  13408  N3  C   A 645     121.870 105.690 -35.064  1.00 55.60      A16S
ATOM  13409  C4  C   A 645     122.347 106.904 -34.788  1.00 55.60      A16S
ATOM  13410  N4  C   A 645     121.502 107.926 -34.810  1.00 55.60      A16S
ATOM  13411  C5  C   A 645     123.713 107.122 -34.475  1.00 55.60      A16S
ATOM  13412  C2* C   A 645     125.098 102.991 -36.101  1.00 47.82      A16S
ATOM  13413  O2* C   A 645     125.291 101.598 -35.944  1.00 47.82      A16S
ATOM  13414  C3* C   A 645     126.340 103.690 -36.628  1.00 47.82      A16S
ATOM  13415  O3* C   A 645     127.018 102.925 -37.591  1.00 47.82      A16S
ATOM  13416  P   U   A 646     126.741 103.201 -39.136  1.00 46.36      A16S
ATOM  13417  O1P U   A 646     127.525 102.234 -39.941  1.00 55.25      A16S
ATOM  13418  O2P U   A 646     126.902 104.657 -39.364  1.00 55.25      A16S
ATOM  13419  O5* U   A 646     125.211 102.811 -39.281  1.00 46.36      A16S
ATOM  13420  C5* U   A 646     124.797 101.449 -39.061  1.00 46.36      A16S
ATOM  13421  C4* U   A 646     123.336 101.285 -39.379  1.00 46.36      A16S
ATOM  13422  O4* U   A 646     122.546 101.947 -38.368  1.00 46.36      A16S
ATOM  13423  C1* U   A 646     121.412 102.533 -38.963  1.00 46.36      A16S
ATOM  13424  N1  U   A 646     121.457 103.979 -38.710  1.00 55.25      A16S
ATOM  13425  C6  U   A 646     122.634 104.629 -38.425  1.00 55.25      A16S
ATOM  13426  C2  U   A 646     120.266 104.659 -38.749  1.00 55.25      A16S
ATOM  13427  O2  U   A 646     119.211 104.121 -39.031  1.00 55.25      A16S
ATOM  13428  N3  U   A 646     120.348 105.995 -38.453  1.00 55.25      A16S
ATOM  13429  C4  U   A 646     121.483 106.709 -38.142  1.00 55.25      A16S
ATOM  13430  O4  U   A 646     121.394 107.920 -37.898  1.00 55.25      A16S
ATOM  13431  C5  U   A 646     122.688 105.934 -38.146  1.00 55.25      A16S
ATOM  13432  C2* U   A 646     121.417 102.162 -40.442  1.00 46.36      A16S
ATOM  13433  O2* U   A 646     120.665 100.981 -40.610  1.00 46.36      A16S
ATOM  13434  C3* U   A 646     122.894 101.912 -40.685  1.00 46.36      A16S
ATOM  13435  O3* U   A 646     123.133 101.060 -41.790  1.00 46.36      A16S
ATOM  13436  P   C   A 647     123.298 101.706 -43.247  1.00 65.17      A16S
ATOM  13437  O1P C   A 647     123.769 100.632 -44.170  1.00 52.64      A16S
ATOM  13438  O2P C   A 647     124.072 102.975 -43.129  1.00 52.64      A16S
ATOM  13439  O5* C   A 647     121.814 102.126 -43.640  1.00 65.17      A16S
ATOM  13440  C5* C   A 647     120.775 101.147 -43.804  1.00 65.17      A16S
ATOM  13441  C4* C   A 647     119.453 101.832 -44.065  1.00 65.17      A16S
ATOM  13442  O4* C   A 647     119.031 102.547 -42.872  1.00 65.17      A16S
ATOM  13443  C1* C   A 647     118.356 103.737 -43.238  1.00 65.17      A16S
ATOM  13444  N1  C   A 647     119.096 104.877 -42.670  1.00 52.64      A16S
ATOM  13445  C6  C   A 647     120.421 104.767 -42.359  1.00 52.64      A16S
ATOM  13446  C2  C   A 647     118.423 106.080 -42.451  1.00 52.64      A16S
ATOM  13447  O2  C   A 647     117.223 106.151 -42.732  1.00 52.64      A16S
ATOM  13448  N3  C   A 647     119.101 107.136 -41.936  1.00 52.64      A16S
ATOM  13449  C4  C   A 647     120.397 107.016 -41.639  1.00 52.64      A16S
ATOM  13450  N4  C   A 647     121.032 108.076 -41.137  1.00 52.64      A16S
ATOM  13451  C5  C   A 647     121.103 105.800 -41.843  1.00 52.64      A16S
ATOM  13452  C2* C   A 647     118.269 103.772 -44.766  1.00 65.17      A16S
ATOM  13453  O2* C   A 647     117.021 103.246 -45.187  1.00 65.17      A16S
ATOM  13454  C3* C   A 647     119.445 102.885 -45.162  1.00 65.17      A16S
ATOM  13455  O3* C   A 647     119.296 102.325 -46.463  1.00 65.17      A16S
ATOM  13456  P   A   A 648     119.925 103.093 -47.733  1.00 71.48      A16S
ATOM  13457  O1P A   A 648     119.666 102.239 -48.925  1.00 65.95      A16S
ATOM  13458  O2P A   A 648     121.321 103.476 -47.408  1.00 65.95      A16S
ATOM  13459  O5* A   A 648     119.059 104.434 -47.848  1.00 71.48      A16S
ATOM  13460  C5* A   A 648     117.660 104.365 -48.179  1.00 71.48      A16S
ATOM  13461  C4* A   A 648     116.990 105.712 -48.028  1.00 71.48      A16S
ATOM  13462  O4* A   A 648     116.971 106.134 -46.639  1.00 71.48      A16S
ATOM  13463  C1* A   A 648     116.932 107.552 -46.573  1.00 71.48      A16S
ATOM  13464  N9  A   A 648     118.080 108.036 -45.809  1.00 65.95      A16S
ATOM  13465  C4  A   A 648     118.194 109.302 -45.287  1.00 65.95      A16S
ATOM  13466  N3  A   A 648     117.292 110.293 -45.361  1.00 65.95      A16S
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ATOM  13467  C2  A   A 648     117.738 111.382 -44.733  1.00 65.95      A16S
ATOM  13468  N1  A   A 648     118.895 111.579 -44.093  1.00 65.95      A16S
ATOM  13469  C6  A   A 648     119.784 110.568 -44.043  1.00 65.95      A16S
ATOM  13470  N6  A   A 648     120.938 110.777 -43.411  1.00 65.95      A16S
ATOM  13471  C5  A   A 648     119.429 109.349 -44.668  1.00 65.95      A16S
ATOM  13472  N7  A   A 648     120.085 108.132 -44.793  1.00 65.95      A16S
ATOM  13473  C8  A   A 648     119.244 107.388 -45.475  1.00 65.95      A16S
ATOM  13474  C2* A   A 648     116.987 108.078 -48.004  1.00 71.48      A16S
ATOM  13475  O2* A   A 648     115.682 108.376 -48.456  1.00 71.48      A16S
ATOM  13476  C3* A   A 648     117.607 106.898 -48.738  1.00 71.48      A16S
ATOM  13477  O3* A   A 648     117.328 106.948 -50.117  1.00 71.48      A16S
ATOM  13478  P   G   A 649     118.410 107.608 -51.099  1.00 80.38      A16S
ATOM  13479  O1P G   A 649     118.022 107.218 -52.473  1.00 72.17      A16S
ATOM  13480  O2P G   A 649     119.767 107.289 -50.600  1.00 72.17      A16S
ATOM  13481  O5* G   A 649     118.212 109.172 -50.907  1.00 80.38      A16S
ATOM  13482  C5* G   A 649     117.033 109.801 -51.381  1.00 80.38      A16S
ATOM  13483  C4* G   A 649     116.978 111.227 -50.919  1.00 80.38      A16S
ATOM  13484  O4* G   A 649     116.976 111.266 -49.469  1.00 80.38      A16S
ATOM  13485  C1* G   A 649     117.579 112.472 -49.027  1.00 80.38      A16S
ATOM  13486  N9  G   A 649     118.764 112.161 -48.233  1.00 72.17      A16S
ATOM  13487  C4  G   A 649     119.421 113.048 -47.420  1.00 72.17      A16S
ATOM  13488  N3  G   A 649     119.050 114.321 -47.186  1.00 72.17      A16S
ATOM  13489  C2  G   A 649     119.893 114.941 -46.390  1.00 72.17      A16S
ATOM  13490  N2  G   A 649     119.668 116.209 -46.058  1.00 72.17      A16S
ATOM  13491  N1  G   A 649     121.017 114.363 -45.862  1.00 72.17      A16S
ATOM  13492  C6  G   A 649     121.426 113.058 -46.090  1.00 72.17      A16S
ATOM  13493  O6  G   A 649     122.469 112.646 -45.578  1.00 72.17      A16S
ATOM  13494  C5  G   A 649     120.520 112.369 -46.944  1.00 72.17      A16S
ATOM  13495  N7  G   A 649     120.538 111.064 -47.422  1.00 72.17      A16S
ATOM  13496  C8  G   A 649     119.473 110.982 -48.176  1.00 72.17      A16S
ATOM  13497  C2* G   A 649     118.002 113.246 -50.273  1.00 80.38      A16S
ATOM  13498  O2* G   A 649     116.991 114.170 -50.633  1.00 80.38      A16S
ATOM  13499  C3* G   A 649     118.146 112.122 -51.287  1.00 80.38      A16S
ATOM  13500  O3* G   A 649     118.115 112.603 -52.618  1.00 80.38      A16S
ATOM  13501  P   G   A 650     119.500 112.986 -53.342  1.00 70.43      A16S
ATOM  13502  O1P G   A 650     119.137 113.345 -54.740  1.00 63.33      A16S
ATOM  13503  O2P G   A 650     120.503 111.902 -53.094  1.00 63.33      A16S
ATOM  13504  O5* G   A 650     119.979 114.298 -52.572  1.00 70.43      A16S
ATOM  13505  C5* G   A 650     119.126 115.444 -52.534  1.00 70.43      A16S
ATOM  13506  C4* G   A 650     119.693 116.520 -51.644  1.00 70.43      A16S
ATOM  13507  O4* G   A 650     119.751 116.061 -50.273  1.00 70.43      A16S
ATOM  13508  C1* G   A 650     120.789 116.741 -49.594  1.00 70.43      A16S
ATOM  13509  N9  G   A 650     121.755 115.768 -49.104  1.00 63.33      A16S
ATOM  13510  C4  G   A 650     122.774 116.039 -48.232  1.00 63.33      A16S
ATOM  13511  N3  G   A 650     123.032 117.239 -47.674  1.00 63.33      A16S
ATOM  13512  C2  G   A 650     124.079 117.201 -46.877  1.00 63.33      A16S
ATOM  13513  N2  G   A 650     124.457 118.311 -46.246  1.00 63.33      A16S
ATOM  13514  N1  G   A 650     124.823 116.069 -46.641  1.00 63.33      A16S
ATOM  13515  C6  G   A 650     124.573 114.814 -47.196  1.00 63.33      A16S
ATOM  13516  O6  G   A 650     125.293 113.847 -46.898  1.00 63.33      A16S
ATOM  13517  C5  G   A 650     123.446 114.847 -48.068  1.00 63.33      A16S
ATOM  13518  N7  G   A 650     122.855 113.840 -48.824  1.00 63.33      A16S
ATOM  13519  C8  G   A 650     121.853 114.432 -49.418  1.00 63.33      A16S
ATOM  13520  C2* G   A 650     121.451 117.683 -50.593  1.00 70.43      A16S
ATOM  13521  O2* G   A 650     120.884 118.970 -50.444  1.00 70.43      A16S
ATOM  13522  C3* G   A 650     121.097 117.021 -51.917  1.00 70.43      A16S
ATOM  13523  O3* G   A 650     121.155 117.943 -52.987  1.00 70.43      A16S
ATOM  13524  P   C   A 651     122.505 118.058 -53.849  1.00 59.46      A16S
ATOM  13525  O1P C   A 651     122.226 118.964 -54.984  1.00 58.35      A16S
ATOM  13526  O2P C   A 651     123.004 116.681 -54.117  1.00 58.35      A16S
ATOM  13527  O5* C   A 651     123.516 118.825 -52.884  1.00 59.46      A16S
ATOM  13528  C5* C   A 651     123.167 120.121 -52.386  1.00 59.46      A16S
ATOM  13529  C4* C   A 651     124.144 120.582 -51.338  1.00 59.46      A16S
ATOM  13530  O4* C   A 651     124.221 119.627 -50.257  1.00 59.46      A16S
ATOM  13531  C1* C   A 651     125.497 119.700 -49.653  1.00 59.46      A16S
ATOM  13532  N1  C   A 651     126.078 118.348 -49.577  1.00 58.35      A16S
ATOM  13533  C6  C   A 651     125.548 117.308 -50.288  1.00 58.35      A16S
ATOM  13534  C2  C   A 651     127.192 118.144 -48.755  1.00 58.35      A16S
ATOM  13535  O2  C   A 651     127.663 119.112 -48.126  1.00 58.35      A16S
ATOM  13536  N3  C   A 651     127.730 116.906 -48.670  1.00 58.35      A16S
ATOM  13537  C4  C   A 651     127.202 115.901 -49.369  1.00 58.35      A16S
ATOM  13538  N4  C   A 651     127.764 114.703 -49.262  1.00 58.35      A16S
ATOM  13539  C5  C   A 651     126.074 116.081 -50.213  1.00 58.35      A16S
ATOM  13540  C2* C   A 651     126.335 120.694 -50.454  1.00 59.46      A16S
ATOM  13541  O2* C   A 651     126.338 121.920 -49.755  1.00 59.46      A16S
ATOM  13542  C3* C   A 651     125.576 120.759 -51.775  1.00 59.46      A16S
ATOM  13543  O3* C   A 651     125.723 122.017 -52.399  1.00 59.46      A16S
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ATOM  13544  P    U   A 652     126.875 122.222 -53.493  1.00 61.27      A16S
ATOM  13545  O1P  U   A 652     126.741 123.603 -54.043  1.00 48.18      A16S
ATOM  13546  O2P  U   A 652     126.875 121.043 -54.413  1.00 48.18      A16S
ATOM  13547  O5*  U   A 652     128.206 122.199 -52.634  1.00 61.27      A16S
ATOM  13548  C5*  U   A 652     128.444 123.196 -51.640  1.00 61.27      A16S
ATOM  13549  C4*  U   A 652     129.803 122.991 -51.050  1.00 61.27      A16S
ATOM  13550  O4*  U   A 652     129.839 121.673 -50.448  1.00 61.27      A16S
ATOM  13551  C1*  U   A 652     130.881 120.927 -51.023  1.00 61.27      A16S
ATOM  13552  N1   U   A 652     130.494 119.514 -51.061  1.00 48.18      A16S
ATOM  13553  C6   U   A 652     129.481 119.047 -51.853  1.00 48.18      A16S
ATOM  13554  C2   U   A 652     131.218 118.664 -50.266  1.00 48.18      A16S
ATOM  13555  O2   U   A 652     132.088 119.053 -49.507  1.00 48.18      A16S
ATOM  13556  N3   U   A 652     130.885 117.346 -50.377  1.00 48.18      A16S
ATOM  13557  C4   U   A 652     129.911 116.808 -51.161  1.00 48.18      A16S
ATOM  13558  O4   U   A 652     129.787 115.593 -51.201  1.00 48.18      A16S
ATOM  13559  C5   U   A 652     129.169 117.755 -51.925  1.00 48.18      A16S
ATOM  13560  C2*  U   A 652     131.168 121.556 -52.379  1.00 61.27      A16S
ATOM  13561  O2*  U   A 652     132.474 121.230 -52.787  1.00 61.27      A16S
ATOM  13562  C3*  U   A 652     130.945 123.030 -52.061  1.00 61.27      A16S
ATOM  13563  O3*  U   A 652     132.063 123.552 -51.359  1.00 61.27      A16S
ATOM  13564  P    A   A 653     133.212 124.356 -52.136  1.00 47.66      A16S
ATOM  13565  O1P  A   A 653     132.811 125.773 -52.194  1.00 47.75      A16S
ATOM  13566  O2P  A   A 653     133.575 123.646 -53.393  1.00 47.75      A16S
ATOM  13567  O5*  A   A 653     134.409 124.255 -51.105  1.00 47.66      A16S
ATOM  13568  C5*  A   A 653     134.686 123.010 -50.459  1.00 47.66      A16S
ATOM  13569  C4*  A   A 653     135.506 123.237 -49.224  1.00 47.66      A16S
ATOM  13570  O4*  A   A 653     134.733 123.965 -48.221  1.00 47.66      A16S
ATOM  13571  C1*  A   A 653     134.742 123.239 -47.015  1.00 47.66      A16S
ATOM  13572  N9   A   A 653     133.488 123.461 -46.291  1.00 47.75      A16S
ATOM  13573  C4   A   A 653     132.240 122.985 -46.610  1.00 47.75      A16S
ATOM  13574  N3   A   A 653     131.900 122.259 -47.685  1.00 47.75      A16S
ATOM  13575  C2   A   A 653     130.608 121.954 -47.647  1.00 47.75      A16S
ATOM  13576  N1   A   A 653     129.685 122.269 -46.724  1.00 47.75      A16S
ATOM  13577  C6   A   A 653     130.064 123.002 -45.659  1.00 47.75      A16S
ATOM  13578  N6   A   A 653     129.147 123.312 -44.744  1.00 47.75      A16S
ATOM  13579  C5   A   A 653     131.405 123.391 -45.582  1.00 47.75      A16S
ATOM  13580  N7   A   A 653     132.104 124.133 -44.646  1.00 47.75      A16S
ATOM  13581  C8   A   A 653     133.330 124.155 -45.117  1.00 47.75      A16S
ATOM  13582  C2*  A   A 653     134.990 121.784 -47.416  1.00 47.66      A16S
ATOM  13583  O2*  A   A 653     135.501 121.049 -46.329  1.00 47.66      A16S
ATOM  13584  C3*  A   A 653     135.974 121.947 -48.569  1.00 47.66      A16S
ATOM  13585  O3*  A   A 653     137.295 122.162 -48.077  1.00 47.66      A16S
ATOM  13586  P    G   A 654     138.566 121.636 -48.912  1.00 50.58      A16S
ATOM  13587  O1P  G   A 654     139.669 122.515 -48.451  1.00 40.63      A16S
ATOM  13588  O2P  G   A 654     138.300 121.504 -50.383  1.00 40.63      A16S
ATOM  13589  O5*  G   A 654     138.790 120.163 -48.345  1.00 50.58      A16S
ATOM  13590  C5*  G   A 654     139.271 119.944 -47.002  1.00 50.58      A16S
ATOM  13591  C4*  G   A 654     139.318 118.463 -46.691  1.00 50.58      A16S
ATOM  13592  O4*  G   A 654     137.972 117.954 -46.514  1.00 50.58      A16S
ATOM  13593  C1*  G   A 654     137.892 116.634 -47.015  1.00 50.58      A16S
ATOM  13594  N9   G   A 654     136.972 116.654 -48.144  1.00 40.63      A16S
ATOM  13595  C4   G   A 654     136.457 115.581 -48.825  1.00 40.63      A16S
ATOM  13596  N3   G   A 654     136.702 114.281 -48.568  1.00 40.63      A16S
ATOM  13597  C2   G   A 654     136.041 113.483 -49.404  1.00 40.63      A16S
ATOM  13598  N2   G   A 654     136.142 112.151 -49.291  1.00 40.63      A16S
ATOM  13599  N1   G   A 654     135.224 113.934 -50.414  1.00 40.63      A16S
ATOM  13600  C6   G   A 654     134.977 115.272 -50.695  1.00 40.63      A16S
ATOM  13601  O6   G   A 654     134.245 115.579 -51.635  1.00 40.63      A16S
ATOM  13602  C5   G   A 654     135.657 116.124 -49.804  1.00 40.63      A16S
ATOM  13603  N7   G   A 654     135.665 117.502 -49.733  1.00 40.63      A16S
ATOM  13604  C8   G   A 654     136.456 117.771 -48.738  1.00 40.63      A16S
ATOM  13605  C2*  G   A 654     139.301 116.218 -47.431  1.00 50.58      A16S
ATOM  13606  O2*  G   A 654     139.952 115.605 -46.337  1.00 50.58      A16S
ATOM  13607  C3*  G   A 654     139.933 117.559 -47.748  1.00 50.58      A16S
ATOM  13608  O3*  G   A 654     141.344 117.481 -47.654  1.00 50.58      A16S
ATOM  13609  P    A   A 655     142.226 117.421 -48.998  1.00 44.40      A16S
ATOM  13610  O1P  A   A 655     143.622 117.195 -48.548  1.00 38.84      A16S
ATOM  13611  O2P  A   A 655     141.903 118.612 -49.833  1.00 38.84      A16S
ATOM  13612  O5*  A   A 655     141.730 116.107 -49.752  1.00 44.40      A16S
ATOM  13613  C5*  A   A 655     142.024 114.812 -49.214  1.00 44.40      A16S
ATOM  13614  C4*  A   A 655     141.323 113.743 -50.004  1.00 44.40      A16S
ATOM  13615  O4*  A   A 655     139.892 113.890 -49.845  1.00 44.40      A16S
ATOM  13616  C1*  A   A 655     139.240 113.539 -51.054  1.00 44.40      A16S
ATOM  13617  N9   A   A 655     138.572 114.732 -51.576  1.00 38.84      A16S
ATOM  13618  C4   A   A 655     137.659 114.768 -52.603  1.00 38.84      A16S
ATOM  13619  N3   A   A 655     137.169 113.728 -53.296  1.00 38.84      A16S
ATOM  13620  C2   A   A 655     136.328 114.149 -54.230  1.00 38.84      A16S
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ATOM  13621  N1  A   A 655     135.948 115.396 -54.530  1.00 38.84      A16S
ATOM  13622  C6  A   A 655     136.461 116.415 -53.812  1.00 38.84      A16S
ATOM  13623  N6  A   A 655     136.089 117.659 -54.107  1.00 38.84      A16S
ATOM  13624  C5  A   A 655     137.360 116.104 -52.793  1.00 38.84      A16S
ATOM  13625  N7  A   A 655     138.050 116.897 -51.890  1.00 38.84      A16S
ATOM  13626  C8  A   A 655     138.745 116.039 -51.185  1.00 38.84      A16S
ATOM  13627  C2* A   A 655     140.316 113.045 -52.025  1.00 44.40      A16S
ATOM  13628  O2* A   A 655     140.458 111.638 -51.931  1.00 44.40      A16S
ATOM  13629  C3* A   A 655     141.546 113.766 -51.505  1.00 44.40      A16S
ATOM  13630  O3* A   A 655     142.724 113.080 -51.876  1.00 44.40      A16S
ATOM  13631  P   C   A 656     143.627 113.645 -53.076  1.00 44.39      A16S
ATOM  13632  O1P C   A 656     144.944 112.977 -52.951  1.00 60.97      A16S
ATOM  13633  O2P C   A 656     143.552 115.133 -53.063  1.00 60.97      A16S
ATOM  13634  O5* C   A 656     142.934 113.102 -54.399  1.00 44.39      A16S
ATOM  13635  C5* C   A 656     142.716 111.704 -54.580  1.00 44.39      A16S
ATOM  13636  C4* C   A 656     141.626 111.469 -55.593  1.00 44.39      A16S
ATOM  13637  O4* C   A 656     140.369 111.996 -55.099  1.00 44.39      A16S
ATOM  13638  C1* C   A 656     139.597 112.494 -56.179  1.00 44.39      A16S
ATOM  13639  N1  C   A 656     139.378 113.940 -56.002  1.00 60.97      A16S
ATOM  13640  C6  C   A 656     140.128 114.672 -55.133  1.00 60.97      A16S
ATOM  13641  C2  C   A 656     138.401 114.559 -56.774  1.00 60.97      A16S
ATOM  13642  O2  C   A 656     137.696 113.860 -57.511  1.00 60.97      A16S
ATOM  13643  N3  C   A 656     138.240 115.896 -56.697  1.00 60.97      A16S
ATOM  13644  C4  C   A 656     138.998 116.605 -55.872  1.00 60.97      A16S
ATOM  13645  N4  C   A 656     138.827 117.922 -55.845  1.00 60.97      A16S
ATOM  13646  C5  C   A 656     139.972 115.996 -55.038  1.00 60.97      A16S
ATOM  13647  C2* C   A 656     140.386 112.231 -57.454  1.00 44.39      A16S
ATOM  13648  O2* C   A 656     139.950 111.010 -58.013  1.00 44.39      A16S
ATOM  13649  C3* C   A 656     141.808 112.173 -56.917  1.00 44.39      A16S
ATOM  13650  O3* C   A 656     142.712 111.510 -57.777  1.00 44.39      A16S
ATOM  13651  P   G   A 657     143.617 112.385 -58.778  1.00 51.44      A16S
ATOM  13652  O1P G   A 657     144.589 111.424 -59.371  1.00 52.19      A16S
ATOM  13653  O2P G   A 657     144.112 113.608 -58.068  1.00 52.19      A16S
ATOM  13654  O5* G   A 657     142.589 112.862 -59.899  1.00 51.44      A16S
ATOM  13655  C5* G   A 657     141.828 111.892 -60.634  1.00 51.44      A16S
ATOM  13656  C4* G   A 657     140.737 112.558 -61.438  1.00 51.44      A16S
ATOM  13657  O4* G   A 657     139.849 113.300 -60.560  1.00 51.44      A16S
ATOM  13658  C1* G   A 657     139.245 114.356 -61.285  1.00 51.44      A16S
ATOM  13659  N9  G   A 657     139.525 115.633 -60.639  1.00 52.19      A16S
ATOM  13660  C4  G   A 657     139.109 116.854 -61.102  1.00 52.19      A16S
ATOM  13661  N3  G   A 657     138.371 117.063 -62.209  1.00 52.19      A16S
ATOM  13662  C2  G   A 657     138.137 118.348 -62.414  1.00 52.19      A16S
ATOM  13663  N2  G   A 657     137.402 118.727 -63.474  1.00 52.19      A16S
ATOM  13664  N1  G   A 657     138.599 119.349 -61.598  1.00 52.19      A16S
ATOM  13665  C6  G   A 657     139.360 119.158 -60.456  1.00 52.19      A16S
ATOM  13666  O6  G   A 657     139.723 120.132 -59.799  1.00 52.19      A16S
ATOM  13667  C5  G   A 657     139.613 117.776 -60.218  1.00 52.19      A16S
ATOM  13668  N7  G   A 657     140.322 117.148 -59.206  1.00 52.19      A16S
ATOM  13669  C8  G   A 657     140.241 115.876 -59.496  1.00 52.19      A16S
ATOM  13670  C2* G   A 657     139.824 114.330 -62.694  1.00 51.44      A16S
ATOM  13671  O2* G   A 657     138.923 113.608 -63.505  1.00 51.44      A16S
ATOM  13672  C3* G   A 657     141.136 113.589 -62.477  1.00 51.44      A16S
ATOM  13673  O3* G   A 657     141.616 113.020 -63.679  1.00 51.44      A16S
ATOM  13674  P   G   A 658     142.625 113.868 -64.599  1.00 53.24      A16S
ATOM  13675  O1P G   A 658     143.115 112.954 -65.663  1.00 53.47      A16S
ATOM  13676  O2P G   A 658     143.595 114.567 -63.733  1.00 53.47      A16S
ATOM  13677  O5* G   A 658     141.729 115.020 -65.236  1.00 53.24      A16S
ATOM  13678  C5* G   A 658     140.668 114.710 -66.160  1.00 53.24      A16S
ATOM  13679  C4* G   A 658     140.006 115.979 -66.637  1.00 53.24      A16S
ATOM  13680  O4* G   A 658     139.529 116.724 -65.493  1.00 53.24      A16S
ATOM  13681  C1* G   A 658     139.628 118.111 -65.745  1.00 53.24      A16S
ATOM  13682  N9  G   A 658     140.410 118.706 -64.672  1.00 53.47      A16S
ATOM  13683  C4  G   A 658     140.565 120.045 -64.409  1.00 53.47      A16S
ATOM  13684  N3  G   A 658     140.035 121.061 -65.119  1.00 53.47      A16S
ATOM  13685  C2  G   A 658     140.381 122.238 -64.622  1.00 53.47      A16S
ATOM  13686  N2  G   A 658     139.949 123.369 -65.203  1.00 53.47      A16S
ATOM  13687  N1  G   A 658     141.176 122.396 -63.518  1.00 53.47      A16S
ATOM  13688  C6  G   A 658     141.724 121.361 -62.776  1.00 53.47      A16S
ATOM  13689  O6  G   A 658     142.426 121.611 -61.801  1.00 53.47      A16S
ATOM  13690  C5  G   A 658     141.368 120.107 -63.294  1.00 53.47      A16S
ATOM  13691  N7  G   A 658     141.710 118.837 -62.863  1.00 53.47      A16S
ATOM  13692  C8  G   A 658     141.126 118.038 -63.713  1.00 53.47      A16S
ATOM  13693  C2* G   A 658     140.211 118.299 -67.143  1.00 53.24      A16S
ATOM  13694  O2* G   A 658     139.137 118.536 -68.032  1.00 53.24      A16S
ATOM  13695  C3* G   A 658     140.904 116.958 -67.366  1.00 53.24      A16S
ATOM  13696  O3* G   A 658     141.019 116.597 -68.736  1.00 53.24      A16S
ATOM  13697  P   U   A 659     142.382 116.914 -69.516  1.00 56.90      A16S
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ATOM  13698  O1P U   A 659     142.240 116.355 -70.881  1.00 59.81      A16S
ATOM  13699  O2P U   A 659     143.525 116.501 -68.668  1.00 59.81      A16S
ATOM  13700  O5* U   A 659     142.402 118.506 -69.568  1.00 56.90      A16S
ATOM  13701  C5* U   A 659     141.411 119.228 -70.314  1.00 56.90      A16S
ATOM  13702  C4* U   A 659     141.623 120.711 -70.167  1.00 56.90      A16S
ATOM  13703  O4* U   A 659     141.257 121.136 -68.832  1.00 56.90      A16S
ATOM  13704  C1* U   A 659     142.134 122.158 -68.391  1.00 56.90      A16S
ATOM  13705  N1   U   A 659     142.840 121.668 -67.198  1.00 59.81      A16S
ATOM  13706  C6   U   A 659     143.009 120.320 -66.974  1.00 59.81      A16S
ATOM  13707  C2   U   A 659     143.344 122.605 -66.311  1.00 59.81      A16S
ATOM  13708  O2   U   A 659     143.203 123.802 -66.463  1.00 59.81      A16S
ATOM  13709  N3   U   A 659     144.021 122.083 -65.238  1.00 59.81      A16S
ATOM  13710  C4   U   A 659     144.240 120.752 -64.970  1.00 59.81      A16S
ATOM  13711  O4   U   A 659     144.939 120.439 -64.009  1.00 59.81      A16S
ATOM  13712  C5   U   A 659     143.672 119.846 -65.922  1.00 59.81      A16S
ATOM  13713  C2* U   A 659     143.097 122.462 -69.536  1.00 56.90      A16S
ATOM  13714  O2* U   A 659     142.635 123.575 -70.271  1.00 56.90      A16S
ATOM  13715  C3* U   A 659     143.059 121.155 -70.316  1.00 56.90      A16S
ATOM  13716  O3* U   A 659     143.445 121.269 -71.670  1.00 56.90      A16S
ATOM  13717  P    G   A 660     144.967 120.964 -72.072  1.00 60.21      A16S
ATOM  13718  O1P G   A 660     145.001 120.981 -73.560  1.00 62.74      A16S
ATOM  13719  O2P G   A 660     145.433 119.748 -71.342  1.00 62.74      A16S
ATOM  13720  O5* G   A 660     145.742 122.236 -71.509  1.00 60.21      A16S
ATOM  13721  C5* G   A 660     145.293 123.545 -71.862  1.00 60.21      A16S
ATOM  13722  C4* G   A 660     145.986 124.589 -71.037  1.00 60.21      A16S
ATOM  13723  O4* G   A 660     145.487 124.595 -69.677  1.00 60.21      A16S
ATOM  13724  C1* G   A 660     146.516 125.021 -68.798  1.00 60.21      A16S
ATOM  13725  N9   G   A 660     146.746 123.975 -67.803  1.00 62.74      A16S
ATOM  13726  C4   G   A 660     147.311 124.131 -66.555  1.00 62.74      A16S
ATOM  13727  N3   G   A 660     147.743 125.287 -66.017  1.00 62.74      A16S
ATOM  13728  C2   G   A 660     148.263 125.106 -64.816  1.00 62.74      A16S
ATOM  13729  N2   G   A 660     148.759 126.142 -64.138  1.00 62.74      A16S
ATOM  13730  N1   G   A 660     148.339 123.898 -64.193  1.00 62.74      A16S
ATOM  13731  C6   G   A 660     147.899 122.698 -64.727  1.00 62.74      A16S
ATOM  13732  O6   G   A 660     148.021 121.659 -64.080  1.00 62.74      A16S
ATOM  13733  C5   G   A 660     147.350 122.870 -66.012  1.00 62.74      A16S
ATOM  13734  N7   G   A 660     146.815 121.937 -66.889  1.00 62.74      A16S
ATOM  13735  C8   G   A 660     146.464 122.637 -67.933  1.00 62.74      A16S
ATOM  13736  C2* G   A 660     147.761 125.294 -69.649  1.00 60.21      A16S
ATOM  13737  O2* G   A 660     147.841 126.675 -69.947  1.00 60.21      A16S
ATOM  13738  C3* G   A 660     147.486 124.453 -70.890  1.00 60.21      A16S
ATOM  13739  O3* G   A 660     148.167 124.931 -72.040  1.00 60.21      A16S
ATOM  13740  P    G   A 661     149.702 124.515 -72.283  1.00 85.41      A16S
ATOM  13741  O1P G   A 661     150.066 124.914 -73.668  1.00 62.51      A16S
ATOM  13742  O2P G   A 661     149.914 123.108 -71.850  1.00 62.51      A16S
ATOM  13743  O5* G   A 661     150.475 125.471 -71.280  1.00 85.41      A16S
ATOM  13744  C5* G   A 661     151.603 125.011 -70.550  1.00 85.41      A16S
ATOM  13745  C4* G   A 661     151.838 125.909 -69.369  1.00 85.41      A16S
ATOM  13746  O4* G   A 661     150.754 125.767 -68.415  1.00 85.41      A16S
ATOM  13747  C1* G   A 661     151.280 125.652 -67.099  1.00 85.41      A16S
ATOM  13748  N9   G   A 661     151.168 124.247 -66.701  1.00 62.51      A16S
ATOM  13749  C4   G   A 661     151.557 123.691 -65.503  1.00 62.51      A16S
ATOM  13750  N3   G   A 661     152.094 124.352 -64.459  1.00 62.51      A16S
ATOM  13751  C2   G   A 661     152.383 123.538 -63.459  1.00 62.51      A16S
ATOM  13752  N2   G   A 661     152.944 124.021 -62.348  1.00 62.51      A16S
ATOM  13753  N1   G   A 661     152.148 122.190 -63.478  1.00 62.51      A16S
ATOM  13754  C6   G   A 661     151.590 121.491 -64.543  1.00 62.51      A16S
ATOM  13755  O6   G   A 661     151.412 120.274 -64.460  1.00 62.51      A16S
ATOM  13756  C5   G   A 661     151.292 122.344 -65.623  1.00 62.51      A16S
ATOM  13757  N7   G   A 661     150.739 122.055 -66.863  1.00 62.51      A16S
ATOM  13758  C8   G   A 661     150.677 123.209 -67.465  1.00 62.51      A16S
ATOM  13759  C2* G   A 661     152.751 126.054 -67.193  1.00 85.41      A16S
ATOM  13760  O2* G   A 661     152.878 127.457 -67.055  1.00 85.41      A16S
ATOM  13761  C3* G   A 661     153.082 125.558 -68.590  1.00 85.41      A16S
ATOM  13762  O3* G   A 661     154.208 126.148 -69.186  1.00 85.41      A16S
ATOM  13763  P    G   A 662     155.477 125.233 -69.525  1.00 85.14      A16S
ATOM  13764  O1P G   A 662     156.314 126.107 -70.384  1.00 44.28      A16S
ATOM  13765  O2P G   A 662     155.029 123.893 -70.033  1.00 44.28      A16S
ATOM  13766  O5* G   A 662     156.172 125.047 -68.102  1.00 85.14      A16S
ATOM  13767  C5* G   A 662     156.396 126.197 -67.273  1.00 85.14      A16S
ATOM  13768  C4* G   A 662     156.871 125.802 -65.896  1.00 85.14      A16S
ATOM  13769  O4* G   A 662     155.803 125.214 -65.111  1.00 85.14      A16S
ATOM  13770  C1* G   A 662     156.365 124.367 -64.124  1.00 85.14      A16S
ATOM  13771  N9   G   A 662     155.774 123.033 -64.231  1.00 44.28      A16S
ATOM  13772  C4   G   A 662     155.782 122.058 -63.253  1.00 44.28      A16S
ATOM  13773  N3   G   A 662     156.327 122.168 -62.027  1.00 44.28      A16S
ATOM  13774  C2   G   A 662     156.189 121.060 -61.325  1.00 44.28      A16S
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ATOM  13775  N2  G   A 662     156.694 120.981 -60.088  1.00 44.28      A16S
ATOM  13776  N1  G   A 662     155.553 119.944 -61.779  1.00 44.28      A16S
ATOM  13777  C6  G   A 662     154.981 119.810 -63.029  1.00 44.28      A16S
ATOM  13778  O6  G   A 662     154.419 118.760 -63.331  1.00 44.28      A16S
ATOM  13779  C5  G   A 662     155.137 120.982 -63.805  1.00 44.28      A16S
ATOM  13780  N7  G   A 662     154.727 121.262 -65.101  1.00 44.28      A16S
ATOM  13781  C8  G   A 662     155.121 122.490 -65.309  1.00 44.28      A16S
ATOM  13782  C2* G   A 662     157.882 124.366 -64.330  1.00 85.14      A16S
ATOM  13783  O2* G   A 662     158.450 125.299 -63.436  1.00 85.14      A16S
ATOM  13784  C3* G   A 662     158.009 124.811 -65.782  1.00 85.14      A16S
ATOM  13785  O3* G   A 662     159.262 125.427 -66.042  1.00 85.14      A16S
ATOM  13786  P   A   A 663     160.447 124.571 -66.722  1.00 62.97      A16S
ATOM  13787  O1P A   A 663     161.298 125.528 -67.480  1.00 52.85      A16S
ATOM  13788  O2P A   A 663     159.874 123.397 -67.424  1.00 52.85      A16S
ATOM  13789  O5* A   A 663     161.290 124.053 -65.477  1.00 62.97      A16S
ATOM  13790  C5* A   A 663     161.858 124.994 -64.551  1.00 62.97      A16S
ATOM  13791  C4* A   A 663     162.165 124.323 -63.239  1.00 62.97      A16S
ATOM  13792  O4* A   A 663     160.937 123.943 -62.572  1.00 62.97      A16S
ATOM  13793  C1* A   A 663     161.129 122.724 -61.876  1.00 62.97      A16S
ATOM  13794  N9  A   A 663     160.252 121.704 -62.452  1.00 52.85      A16S
ATOM  13795  C4  A   A 663     159.877 120.530 -61.846  1.00 52.85      A16S
ATOM  13796  N3  A   A 663     160.194 120.112 -60.607  1.00 52.85      A16S
ATOM  13797  C2  A   A 663     159.680 118.902 -60.371  1.00 52.85      A16S
ATOM  13798  N1  A   A 663     158.949 118.118 -61.173  1.00 52.85      A16S
ATOM  13799  C6  A   A 663     158.648 118.566 -62.412  1.00 52.85      A16S
ATOM  13800  N6  A   A 663     157.930 117.778 -63.221  1.00 52.85      A16S
ATOM  13801  C5  A   A 663     159.122 119.847 -62.781  1.00 52.85      A16S
ATOM  13802  N7  A   A 663     158.990 120.594 -63.942  1.00 52.85      A16S
ATOM  13803  C8  A   A 663     159.674 121.683 -63.694  1.00 52.85      A16S
ATOM  13804  C2* A   A 663     162.595 122.330 -62.046  1.00 62.97      A16S
ATOM  13805  O2* A   A 663     163.330 122.817 -60.940  1.00 62.97      A16S
ATOM  13806  C3* A   A 663     162.947 123.033 -63.348  1.00 62.97      A16S
ATOM  13807  O3* A   A 663     164.328 123.282 -63.480  1.00 62.97      A16S
ATOM  13808  P   G   A 664     165.252 122.216 -64.243  1.00 53.83      A16S
ATOM  13809  O1P G   A 664     166.608 122.820 -64.227  1.00 43.25      A16S
ATOM  13810  O2P G   A 664     164.640 121.796 -65.542  1.00 43.25      A16S
ATOM  13811  O5* G   A 664     165.252 120.956 -63.277  1.00 53.83      A16S
ATOM  13812  C5* G   A 664     165.660 121.104 -61.920  1.00 53.83      A16S
ATOM  13813  C4* G   A 664     165.479 119.814 -61.172  1.00 53.83      A16S
ATOM  13814  O4* G   A 664     164.079 119.530 -60.956  1.00 53.83      A16S
ATOM  13815  C1* G   A 664     163.899 118.131 -60.864  1.00 53.83      A16S
ATOM  13816  N9  G   A 664     162.908 117.721 -61.849  1.00 43.25      A16S
ATOM  13817  C4  G   A 664     162.087 116.623 -61.771  1.00 43.25      A16S
ATOM  13818  N3  G   A 664     161.987 115.773 -60.724  1.00 43.25      A16S
ATOM  13819  C2  G   A 664     161.144 114.784 -60.971  1.00 43.25      A16S
ATOM  13820  N2  G   A 664     160.897 113.863 -60.033  1.00 43.25      A16S
ATOM  13821  N1  G   A 664     160.477 114.630 -62.157  1.00 43.25      A16S
ATOM  13822  C6  G   A 664     160.575 115.486 -63.249  1.00 43.25      A16S
ATOM  13823  O6  G   A 664     159.958 115.235 -64.285  1.00 43.25      A16S
ATOM  13824  C5  G   A 664     161.440 116.567 -62.986  1.00 43.25      A16S
ATOM  13825  N7  G   A 664     161.792 117.644 -63.780  1.00 43.25      A16S
ATOM  13826  C8  G   A 664     162.653 118.308 -63.059  1.00 43.25      A16S
ATOM  13827  C2* G   A 664     165.260 117.471 -61.108  1.00 53.83      A16S
ATOM  13828  O2* G   A 664     165.864 117.203 -59.863  1.00 53.83      A16S
ATOM  13829  C3* G   A 664     166.017 118.568 -61.839  1.00 53.83      A16S
ATOM  13830  O3* G   A 664     167.412 118.474 -61.611  1.00 53.83      A16S
ATOM  13831  P   A   A 665     168.407 118.169 -62.838  1.00 56.63      A16S
ATOM  13832  O1P A   A 665     169.141 119.431 -63.140  1.00 37.54      A16S
ATOM  13833  O2P A   A 665     167.661 117.465 -63.931  1.00 37.54      A16S
ATOM  13834  O5* A   A 665     169.438 117.133 -62.203  1.00 56.63      A16S
ATOM  13835  C5* A   A 665     169.869 116.001 -62.953  1.00 56.63      A16S
ATOM  13836  C4* A   A 665     170.101 114.811 -62.055  1.00 56.63      A16S
ATOM  13837  O4* A   A 665     171.293 114.971 -61.256  1.00 56.63      A16S
ATOM  13838  C1* A   A 665     171.255 114.026 -60.214  1.00 56.63      A16S
ATOM  13839  N9  A   A 665     171.719 114.639 -58.975  1.00 37.54      A16S
ATOM  13840  C4  A   A 665     172.281 113.935 -57.942  1.00 37.54      A16S
ATOM  13841  N3  A   A 665     172.495 112.613 -57.890  1.00 37.54      A16S
ATOM  13842  C2  A   A 665     173.068 112.278 -56.746  1.00 37.54      A16S
ATOM  13843  N1  A   A 665     173.422 113.053 -55.719  1.00 37.54      A16S
ATOM  13844  C6  A   A 665     173.187 114.377 -55.802  1.00 37.54      A16S
ATOM  13845  N6  A   A 665     173.538 115.142 -54.772  1.00 37.54      A16S
ATOM  13846  C5  A   A 665     172.584 114.861 -56.972  1.00 37.54      A16S
ATOM  13847  N7  A   A 665     172.210 116.135 -57.377  1.00 37.54      A16S
ATOM  13848  C8  A   A 665     171.702 115.948 -58.572  1.00 37.54      A16S
ATOM  13849  C2* A   A 665     169.828 113.493 -60.126  1.00 56.63      A16S
ATOM  13850  O2* A   A 665     169.817 112.195 -60.674  1.00 56.63      A16S
ATOM  13851  C3* A   A 665     169.065 114.473 -61.008  1.00 56.63      A16S
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ATOM  13852  O3* A   A 665     167.935 113.834 -61.563  1.00 56.63      A16S
ATOM  13853  P   G   A 666     166.505 113.988 -60.842  1.00 33.38      A16S
ATOM  13854  O1P G   A 666     165.559 114.467 -61.893  1.00 53.11      A16S
ATOM  13855  O2P G   A 666     166.642 114.753 -59.570  1.00 53.11      A16S
ATOM  13856  O5* G   A 666     166.124 112.494 -60.469  1.00 33.38      A16S
ATOM  13857  C5* G   A 666     166.356 111.996 -59.167  1.00 33.38      A16S
ATOM  13858  C4* G   A 666     165.404 110.882 -58.886  1.00 33.38      A16S
ATOM  13859  O4* G   A 666     164.064 111.358 -59.172  1.00 33.38      A16S
ATOM  13860  C1* G   A 666     163.264 110.288 -59.645  1.00 33.38      A16S
ATOM  13861  N9  G   A 666     162.805 110.592 -60.999  1.00 53.11      A16S
ATOM  13862  C4  G   A 666     162.059 109.754 -61.798  1.00 53.11      A16S
ATOM  13863  N3  G   A 666     161.600 108.534 -61.452  1.00 53.11      A16S
ATOM  13864  C2  G   A 666     160.911 107.969 -62.423  1.00 53.11      A16S
ATOM  13865  N2  G   A 666     160.342 106.772 -62.223  1.00 53.11      A16S
ATOM  13866  N1  G   A 666     160.716 108.539 -63.654  1.00 53.11      A16S
ATOM  13867  C6  G   A 666     161.190 109.783 -64.041  1.00 53.11      A16S
ATOM  13868  O6  G   A 666     160.971 110.188 -65.184  1.00 53.11      A16S
ATOM  13869  C5  G   A 666     161.905 110.423 -62.988  1.00 53.11      A16S
ATOM  13870  N7  G   A 666     162.518 111.671 -62.935  1.00 53.11      A16S
ATOM  13871  C8  G   A 666     163.036 111.728 -61.738  1.00 53.11      A16S
ATOM  13872  C2* G   A 666     164.142 109.040 -59.635  1.00 33.38      A16S
ATOM  13873  O2* G   A 666     163.964 108.373 -58.402  1.00 33.38      A16S
ATOM  13874  C3* G   A 666     165.527 109.652 -59.763  1.00 33.38      A16S
ATOM  13875  O3* G   A 666     166.556 108.765 -59.367  1.00 33.38      A16S
ATOM  13876  P   G   A 667     167.404 108.004 -60.503  1.00 44.52      A16S
ATOM  13877  O1P G   A 667     168.556 107.351 -59.846  1.00 46.00      A16S
ATOM  13878  O2P G   A 667     167.641 108.925 -61.645  1.00 46.00      A16S
ATOM  13879  O5* G   A 667     166.417 106.868 -61.004  1.00 44.52      A16S
ATOM  13880  C5* G   A 667     165.837 105.950 -60.076  1.00 44.52      A16S
ATOM  13881  C4* G   A 667     164.914 105.008 -60.796  1.00 44.52      A16S
ATOM  13882  O4* G   A 667     163.793 105.750 -61.334  1.00 44.52      A16S
ATOM  13883  C1* G   A 667     163.403 105.198 -62.577  1.00 44.52      A16S
ATOM  13884  N9  G   A 667     163.569 106.228 -63.602  1.00 46.00      A16S
ATOM  13885  C4  G   A 667     163.147 106.158 -64.907  1.00 46.00      A16S
ATOM  13886  N3  G   A 667     162.494 105.125 -65.471  1.00 46.00      A16S
ATOM  13887  C2  G   A 667     162.211 105.353 -66.741  1.00 46.00      A16S
ATOM  13888  N2  G   A 667     161.558 104.423 -67.450  1.00 46.00      A16S
ATOM  13889  N1  G   A 667     162.543 106.503 -67.404  1.00 46.00      A16S
ATOM  13890  C6  G   A 667     163.213 107.581 -66.843  1.00 46.00      A16S
ATOM  13891  O6  G   A 667     163.459 108.576 -67.531  1.00 46.00      A16S
ATOM  13892  C5  G   A 667     163.523 107.351 -65.480  1.00 46.00      A16S
ATOM  13893  N7  G   A 667     164.165 108.162 -64.554  1.00 46.00      A16S
ATOM  13894  C8  G   A 667     164.171 107.456 -63.458  1.00 46.00      A16S
ATOM  13895  C2* G   A 667     164.266 103.961 -62.811  1.00 44.52      A16S
ATOM  13896  O2* G   A 667     163.599 102.835 -62.266  1.00 44.52      A16S
ATOM  13897  C3* G   A 667     165.508 104.307 -62.003  1.00 44.52      A16S
ATOM  13898  O3* G   A 667     166.272 103.170 -61.628  1.00 44.52      A16S
ATOM  13899  P   G   A 668     167.428 102.632 -62.609  1.00 43.42      A16S
ATOM  13900  O1P G   A 668     168.084 101.465 -61.950  1.00 36.10      A16S
ATOM  13901  O2P G   A 668     168.236 103.778 -63.072  1.00 36.10      A16S
ATOM  13902  O5* G   A 668     166.632 102.068 -63.858  1.00 43.42      A16S
ATOM  13903  C5* G   A 668     165.929 100.833 -63.750  1.00 43.42      A16S
ATOM  13904  C4* G   A 668     165.346 100.465 -65.076  1.00 43.42      A16S
ATOM  13905  O4* G   A 668     164.399 101.485 -65.466  1.00 43.42      A16S
ATOM  13906  C1* G   A 668     164.429 101.632 -66.870  1.00 43.42      A16S
ATOM  13907  N9  G   A 668     164.821 102.999 -67.179  1.00 36.10      A16S
ATOM  13908  C4  G   A 668     164.766 103.598 -68.414  1.00 36.10      A16S
ATOM  13909  N3  G   A 668     164.353 103.017 -69.558  1.00 36.10      A16S
ATOM  13910  C2  G   A 668     164.371 103.862 -70.569  1.00 36.10      A16S
ATOM  13911  N2  G   A 668     163.970 103.463 -71.776  1.00 36.10      A16S
ATOM  13912  N1  G   A 668     164.774 105.163 -70.472  1.00 36.10      A16S
ATOM  13913  C6  G   A 668     165.202 105.782 -69.307  1.00 36.10      A16S
ATOM  13914  O6  G   A 668     165.523 106.974 -69.325  1.00 36.10      A16S
ATOM  13915  C5  G   A 668     165.187 104.891 -68.211  1.00 36.10      A16S
ATOM  13916  N7  G   A 668     165.524 105.097 -66.881  1.00 36.10      A16S
ATOM  13917  C8  G   A 668     165.298 103.946 -66.308  1.00 36.10      A16S
ATOM  13918  C2* G   A 668     165.424 100.616 -67.426  1.00 43.42      A16S
ATOM  13919  O2* G   A 668     164.754  99.406 -67.721  1.00 43.42      A16S
ATOM  13920  C3* G   A 668     166.329 100.402 -66.234  1.00 43.42      A16S
ATOM  13921  O3* G   A 668     166.978  99.147 -66.342  1.00 43.42      A16S
ATOM  13922  P   U   A 669     168.410  99.066 -67.058  1.00 50.53      A16S
ATOM  13923  O1P U   A 669     168.958  97.690 -66.864  1.00 45.64      A16S
ATOM  13924  O2P U   A 669     169.163 100.236 -66.539  1.00 45.64      A16S
ATOM  13925  O5* U   A 669     168.091  99.320 -68.602  1.00 50.53      A16S
ATOM  13926  C5* U   A 669     167.466  98.303 -69.407  1.00 50.53      A16S
ATOM  13927  C4* U   A 669     167.312  98.775 -70.833  1.00 50.53      A16S
ATOM  13928  O4* U   A 669     166.511  99.985 -70.849  1.00 50.53      A16S
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ATOM  13929  C1* U   A 669     166.900 100.803 -71.938  1.00 50.53      A16S
ATOM  13930  N1  U   A 669     167.282 102.130 -71.449  1.00 45.64      A16S
ATOM  13931  C6  U   A 669     167.519 102.378 -70.122  1.00 45.64      A16S
ATOM  13932  C2  U   A 669     167.401 103.135 -72.394  1.00 45.64      A16S
ATOM  13933  O2  U   A 669     167.199 102.945 -73.584  1.00 45.64      A16S
ATOM  13934  N3  U   A 669     167.768 104.365 -71.898  1.00 45.64      A16S
ATOM  13935  C4  U   A 669     168.023 104.681 -70.580  1.00 45.64      A16S
ATOM  13936  O4  U   A 669     168.357 105.824 -70.284  1.00 45.64      A16S
ATOM  13937  C5  U   A 669     167.877 103.589 -69.666  1.00 45.64      A16S
ATOM  13938  C2* U   A 669     168.068 100.128 -72.638  1.00 50.53      A16S
ATOM  13939  O2* U   A 669     167.591  99.453 -73.776  1.00 50.53      A16S
ATOM  13940  C3* U   A 669     168.580  99.191 -71.554  1.00 50.53      A16S
ATOM  13941  O3* U   A 669     169.329  98.121 -72.111  1.00 50.53      A16S
ATOM  13942  P   G   A 670     170.889  98.354 -72.431  1.00 60.98      A16S
ATOM  13943  O1P G   A 670     171.479  97.023 -72.720  1.00 45.38      A16S
ATOM  13944  O2P G   A 670     171.453  99.187 -71.338  1.00 45.38      A16S
ATOM  13945  O5* G   A 670     170.906  99.267 -73.742  1.00 60.98      A16S
ATOM  13946  C5* G   A 670     170.445  98.752 -75.007  1.00 60.98      A16S
ATOM  13947  C4* G   A 670     170.382  99.852 -76.049  1.00 60.98      A16S
ATOM  13948  O4* G   A 670     169.454 100.881 -75.620  1.00 60.98      A16S
ATOM  13949  C1* G   A 670     169.932 102.154 -76.025  1.00 60.98      A16S
ATOM  13950  N9  G   A 670     170.306 102.889 -74.825  1.00 45.38      A16S
ATOM  13951  C4  G   A 670     170.583 104.229 -74.740  1.00 45.38      A16S
ATOM  13952  N3  G   A 670     170.546 105.112 -75.754  1.00 45.38      A16S
ATOM  13953  C2  G   A 670     170.850 106.335 -75.352  1.00 45.38      A16S
ATOM  13954  N2  G   A 670     170.841 107.343 -76.219  1.00 45.38      A16S
ATOM  13955  N1  G   A 670     171.181 106.658 -74.068  1.00 45.38      A16S
ATOM  13956  C6  G   A 670     171.241 105.758 -73.011  1.00 45.38      A16S
ATOM  13957  O6  G   A 670     171.570 106.148 -71.885  1.00 45.38      A16S
ATOM  13958  C5  G   A 670     170.900 104.452 -73.421  1.00 45.38      A16S
ATOM  13959  N7  G   A 670     170.825 103.276 -72.690  1.00 45.38      A16S
ATOM  13960  C8  G   A 670     170.467 102.376 -73.562  1.00 45.38      A16S
ATOM  13961  C2* G   A 670     171.175 101.930 -76.875  1.00 60.98      A16S
ATOM  13962  O2* G   A 670     170.811 101.863 -78.237  1.00 60.98      A16S
ATOM  13963  C3* G   A 670     171.673 100.608 -76.315  1.00 60.98      A16S
ATOM  13964  O3* G   A 670     172.538  99.938 -77.206  1.00 60.98      A16S
ATOM  13965  P   G   A 671     174.120  99.998 -76.950  1.00 63.12      A16S
ATOM  13966  O1P G   A 671     174.686  98.933 -77.818  1.00 48.93      A16S
ATOM  13967  O2P G   A 671     174.377  99.961 -75.488  1.00 48.93      A16S
ATOM  13968  O5* G   A 671     174.556 101.438 -77.479  1.00 63.12      A16S
ATOM  13969  C5* G   A 671     174.304 101.807 -78.838  1.00 63.12      A16S
ATOM  13970  C4* G   A 671     174.304 103.303 -78.997  1.00 63.12      A16S
ATOM  13971  O4* G   A 671     173.413 103.887 -78.017  1.00 63.12      A16S
ATOM  13972  C1* G   A 671     173.876 105.180 -77.669  1.00 63.12      A16S
ATOM  13973  N9  G   A 671     174.109 105.240 -76.229  1.00 48.93      A16S
ATOM  13974  C4  G   A 671     174.315 106.384 -75.500  1.00 48.93      A16S
ATOM  13975  N3  G   A 671     174.319 107.638 -75.987  1.00 48.93      A16S
ATOM  13976  C2  G   A 671     174.540 108.528 -75.043  1.00 48.93      A16S
ATOM  13977  N2  G   A 671     174.571 109.820 -75.343  1.00 48.93      A16S
ATOM  13978  N1  G   A 671     174.747 108.217 -73.732  1.00 48.93      A16S
ATOM  13979  C6  G   A 671     174.758 106.935 -73.209  1.00 48.93      A16S
ATOM  13980  O6  G   A 671     174.977 106.767 -72.006  1.00 48.93      A16S
ATOM  13981  C5  G   A 671     174.511 105.965 -74.206  1.00 48.93      A16S
ATOM  13982  N7  G   A 671     174.423 104.582 -74.116  1.00 48.93      A16S
ATOM  13983  C8  G   A 671     174.182 104.195 -75.340  1.00 48.93      A16S
ATOM  13984  C2* G   A 671     175.159 105.442 -78.457  1.00 63.12      A16S
ATOM  13985  O2* G   A 671     174.865 106.193 -79.619  1.00 63.12      A16S
ATOM  13986  C3* G   A 671     175.620 104.027 -78.774  1.00 63.12      A16S
ATOM  13987  O3* G   A 671     176.458 104.007 -79.918  1.00 63.12      A16S
ATOM  13988  P   U   A 672     178.053 103.981 -79.733  1.00 67.64      A16S
ATOM  13989  O1P U   A 672     178.610 103.759 -81.085  1.00 45.82      A16S
ATOM  13990  O2P U   A 672     178.408 103.044 -78.637  1.00 45.82      A16S
ATOM  13991  O5* U   A 672     178.416 105.460 -79.273  1.00 67.64      A16S
ATOM  13992  C5* U   A 672     178.142 106.571 -80.128  1.00 67.64      A16S
ATOM  13993  C4* U   A 672     178.165 107.853 -79.339  1.00 67.64      A16S
ATOM  13994  O4* U   A 672     177.192 107.766 -78.273  1.00 67.64      A16S
ATOM  13995  C1* U   A 672     177.654 108.487 -77.144  1.00 67.64      A16S
ATOM  13996  N1  U   A 672     177.707 107.581 -75.991  1.00 45.82      A16S
ATOM  13997  C6  U   A 672     177.625 106.224 -76.146  1.00 45.82      A16S
ATOM  13998  C2  U   A 672     177.847 108.153 -74.744  1.00 45.82      A16S
ATOM  13999  O2  U   A 672     177.905 109.367 -74.571  1.00 45.82      A16S
ATOM  14000  N3  U   A 672     177.913 107.256 -73.705  1.00 45.82      A16S
ATOM  14001  C4  U   A 672     177.845 105.878 -73.795  1.00 45.82      A16S
ATOM  14002  O4  U   A 672     177.934 105.192 -72.770  1.00 45.82      A16S
ATOM  14003  C5  U   A 672     177.685 105.378 -75.124  1.00 45.82      A16S
ATOM  14004  C2* U   A 672     179.020 109.074 -77.482  1.00 67.64      A16S
ATOM  14005  O2* U   A 672     178.878 110.429 -77.860  1.00 67.64      A16S
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ATOM  14006  C3* U   A 672     179.464 108.180 -78.629  1.00 67.64      A16S
ATOM  14007  O3* U   A 672     180.348 108.884 -79.472  1.00 67.64      A16S
ATOM  14008  P   G   A 673     181.911 108.911 -79.121  1.00 62.57      A16S
ATOM  14009  O1P G   A 673     182.598 109.157 -80.422  1.00 43.39      A16S
ATOM  14010  O2P G   A 673     182.254 107.697 -78.314  1.00 43.39      A16S
ATOM  14011  O5* G   A 673     182.084 110.170 -78.161  1.00 62.57      A16S
ATOM  14012  C5* G   A 673     181.938 111.503 -78.652  1.00 62.57      A16S
ATOM  14013  C4* G   A 673     182.290 112.475 -77.565  1.00 62.57      A16S
ATOM  14014  O4* G   A 673     181.412 112.223 -76.447  1.00 62.57      A16S
ATOM  14015  C1* G   A 673     182.117 112.405 -75.236  1.00 62.57      A16S
ATOM  14016  N9  G   A 673     182.029 111.167 -74.466  1.00 43.39      A16S
ATOM  14017  C4  G   A 673     182.110 111.050 -73.103  1.00 43.39      A16S
ATOM  14018  N3  G   A 673     182.310 112.059 -72.235  1.00 43.39      A16S
ATOM  14019  C2  G   A 673     182.324 111.633 -70.984  1.00 43.39      A16S
ATOM  14020  N2  G   A 673     182.527 112.511 -69.987  1.00 43.39      A16S
ATOM  14021  N1  G   A 673     182.147 110.317 -70.617  1.00 43.39      A16S
ATOM  14022  C6  G   A 673     181.941 109.263 -71.499  1.00 43.39      A16S
ATOM  14023  O6  G   A 673     181.799 108.112 -71.070  1.00 43.39      A16S
ATOM  14024  C5  G   A 673     181.928 109.707 -72.840  1.00 43.39      A16S
ATOM  14025  N7  G   A 673     181.749 108.996 -74.014  1.00 43.39      A16S
ATOM  14026  C8  G   A 673     181.822 109.899 -74.952  1.00 43.39      A16S
ATOM  14027  C2* G   A 673     183.537 112.853 -75.575  1.00 62.57      A16S
ATOM  14028  O2* G   A 673     183.576 114.261 -75.515  1.00 62.57      A16S
ATOM  14029  C3* G   A 673     183.696 112.336 -76.998  1.00 62.57      A16S
ATOM  14030  O3* G   A 673     184.607 113.141 -77.742  1.00 62.57      A16S
ATOM  14031  P   G   A 674     186.116 112.639 -77.992  1.00 51.34      A16S
ATOM  14032  O1P G   A 674     186.574 113.414 -79.165  1.00 38.24      A16S
ATOM  14033  O2P G   A 674     186.187 111.153 -78.020  1.00 38.24      A16S
ATOM  14034  O5* G   A 674     186.922 113.173 -76.732  1.00 51.34      A16S
ATOM  14035  C5* G   A 674     187.127 114.579 -76.565  1.00 51.34      A16S
ATOM  14036  C4* G   A 674     187.268 114.921 -75.110  1.00 51.34      A16S
ATOM  14037  O4* G   A 674     186.102 114.443 -74.396  1.00 51.34      A16S
ATOM  14038  C1* G   A 674     186.474 114.021 -73.096  1.00 51.34      A16S
ATOM  14039  N9  G   A 674     186.151 112.610 -72.936  1.00 38.24      A16S
ATOM  14040  C4  G   A 674     185.914 111.977 -71.743  1.00 38.24      A16S
ATOM  14041  N3  G   A 674     185.927 112.554 -70.526  1.00 38.24      A16S
ATOM  14042  C2  G   A 674     185.661 111.688 -69.571  1.00 38.24      A16S
ATOM  14043  N2  G   A 674     185.651 112.081 -68.300  1.00 38.24      A16S
ATOM  14044  N1  G   A 674     185.393 110.371 -69.785  1.00 38.24      A16S
ATOM  14045  C6  G   A 674     185.376 109.751 -71.022  1.00 38.24      A16S
ATOM  14046  O6  G   A 674     185.131 108.542 -71.099  1.00 38.24      A16S
ATOM  14047  C5  G   A 674     185.665 110.667 -72.068  1.00 38.24      A16S
ATOM  14048  N7  G   A 674     185.741 110.476 -73.443  1.00 38.24      A16S
ATOM  14049  C8  G   A 674     186.029 111.656 -73.915  1.00 38.24      A16S
ATOM  14050  C2* G   A 674     187.965 114.261 -72.941  1.00 51.34      A16S
ATOM  14051  O2* G   A 674     188.103 115.496 -72.272  1.00 51.34      A16S
ATOM  14052  C3* G   A 674     188.423 114.256 -74.396  1.00 51.34      A16S
ATOM  14053  O3* G   A 674     189.645 114.932 -74.611  1.00 51.34      A16S
ATOM  14054  P   A   A 675     191.019 114.149 -74.345  1.00 49.45      A16S
ATOM  14055  O1P A   A 675     192.111 114.933 -74.985  1.00 47.11      A16S
ATOM  14056  O2P A   A 675     190.827 112.710 -74.715  1.00 47.11      A16S
ATOM  14057  O5* A   A 675     191.191 114.207 -72.759  1.00 49.45      A16S
ATOM  14058  C5* A   A 675     191.325 115.457 -72.082  1.00 49.45      A16S
ATOM  14059  C4* A   A 675     191.373 115.247 -70.592  1.00 49.45      A16S
ATOM  14060  O4* A   A 675     190.073 114.832 -70.097  1.00 49.45      A16S
ATOM  14061  C1* A   A 675     190.239 114.003 -68.953  1.00 49.45      A16S
ATOM  14062  N9  A   A 675     189.700 112.677 -69.255  1.00 47.11      A16S
ATOM  14063  C4  A   A 675     189.339 111.695 -68.360  1.00 47.11      A16S
ATOM  14064  N3  A   A 675     189.352 111.758 -67.018  1.00 47.11      A16S
ATOM  14065  C2  A   A 675     188.951 110.603 -66.492  1.00 47.11      A16S
ATOM  14066  N1  A   A 675     188.572 109.483 -67.110  1.00 47.11      A16S
ATOM  14067  C6  A   A 675     188.571 109.463 -68.457  1.00 47.11      A16S
ATOM  14068  N6  A   A 675     188.197 108.355 -69.086  1.00 47.11      A16S
ATOM  14069  C5  A   A 675     188.965 110.610 -69.126  1.00 47.11      A16S
ATOM  14070  N7  A   A 675     189.054 110.904 -70.471  1.00 47.11      A16S
ATOM  14071  C8  A   A 675     189.488 112.140 -70.495  1.00 47.11      A16S
ATOM  14072  C2* A   A 675     191.741 113.914 -68.684  1.00 49.45      A16S
ATOM  14073  O2* A   A 675     192.133 114.916 -67.762  1.00 49.45      A16S
ATOM  14074  C3* A   A 675     192.311 114.175 -70.070  1.00 49.45      A16S
ATOM  14075  O3* A   A 675     193.665 114.574 -70.003  1.00 49.45      A16S
ATOM  14076  P   A   A 676     194.815 113.478 -70.258  1.00 44.82      A16S
ATOM  14077  O1P A   A 676     196.111 114.188 -70.288  1.00 32.85      A16S
ATOM  14078  O2P A   A 676     194.408 112.643 -71.407  1.00 32.85      A16S
ATOM  14079  O5* A   A 676     194.807 112.557 -68.959  1.00 44.82      A16S
ATOM  14080  C5* A   A 676     195.094 113.113 -67.673  1.00 44.82      A16S
ATOM  14081  C4* A   A 676     194.734 112.135 -66.592  1.00 44.82      A16S
ATOM  14082  O4* A   A 676     193.328 111.801 -66.681  1.00 44.82      A16S
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ATOM  14083  C1* A   A 676     193.130 110.456 -66.273  1.00 44.82      A16S
ATOM  14084  N9  A   A 676     192.567 109.707 -67.395  1.00 32.85      A16S
ATOM  14085  C4  A   A 676     191.999 108.458 -67.336  1.00 32.85      A16S
ATOM  14086  N3  A   A 676     191.813 107.697 -66.247  1.00 32.85      A16S
ATOM  14087  C2  A   A 676     191.245 106.535 -66.578  1.00 32.85      A16S
ATOM  14088  N1  A   A 676     190.882 106.085 -67.779  1.00 32.85      A16S
ATOM  14089  C6  A   A 676     191.094 106.874 -68.849  1.00 32.85      A16S
ATOM  14090  N6  A   A 676     190.751 106.418 -70.056  1.00 32.85      A16S
ATOM  14091  C5  A   A 676     191.674 108.131 -68.631  1.00 32.85      A16S
ATOM  14092  N7  A   A 676     192.004 109.163 -69.491  1.00 32.85      A16S
ATOM  14093  C8  A   A 676     192.522 110.074 -68.710  1.00 32.85      A16S
ATOM  14094  C2* A   A 676     194.493 109.896 -65.869  1.00 44.82      A16S
ATOM  14095  O2* A   A 676     194.683 110.039 -64.475  1.00 44.82      A16S
ATOM  14096  C3* A   A 676     195.432 110.792 -66.657  1.00 44.82      A16S
ATOM  14097  O3* A   A 676     196.714 110.845 -66.064  1.00 44.82      A16S
ATOM  14098  P   U   A 677     197.899 109.941 -66.661  1.00 48.52      A16S
ATOM  14099  O1P U   A 677     199.148 110.553 -66.114  1.00 38.07      A16S
ATOM  14100  O2P U   A 677     197.718 109.840 -68.138  1.00 38.07      A16S
ATOM  14101  O5* U   A 677     197.645 108.505 -66.014  1.00 48.52      A16S
ATOM  14102  C5* U   A 677     197.613 108.358 -64.591  1.00 48.52      A16S
ATOM  14103  C4* U   A 677     197.087 106.997 -64.196  1.00 48.52      A16S
ATOM  14104  O4* U   A 677     195.685 106.871 -64.529  1.00 48.52      A16S
ATOM  14105  C1* U   A 677     195.388 105.524 -64.828  1.00 48.52      A16S
ATOM  14106  N1  U   A 677     194.884 105.445 -66.201  1.00 38.07      A16S
ATOM  14107  C6  U   A 677     195.004 106.491 -67.078  1.00 38.07      A16S
ATOM  14108  C2  U   A 677     194.289 104.270 -66.581  1.00 38.07      A16S
ATOM  14109  O2  U   A 677     194.172 103.330 -65.834  1.00 38.07      A16S
ATOM  14110  N3  U   A 677     193.840 104.235 -67.873  1.00 38.07      A16S
ATOM  14111  C4  U   A 677     193.929 105.240 -68.799  1.00 38.07      A16S
ATOM  14112  O4  U   A 677     193.445 105.073 -69.910  1.00 38.07      A16S
ATOM  14113  C5  U   A 677     194.561 106.430 -68.333  1.00 38.07      A16S
ATOM  14114  C2* U   A 677     196.670 104.718 -64.670  1.00 48.52      A16S
ATOM  14115  O2* U   A 677     196.662 104.161 -63.380  1.00 48.52      A16S
ATOM  14116  C3* U   A 677     197.730 105.793 -64.851  1.00 48.52      A16S
ATOM  14117  O3* U   A 677     198.964 105.457 -64.237  1.00 48.52      A16S
ATOM  14118  P   U   A 678     200.190 104.987 -65.157  1.00 48.35      A16S
ATOM  14119  O1P U   A 678     201.386 104.862 -64.284  1.00 41.37      A16S
ATOM  14120  O2P U   A 678     200.233 105.915 -66.323  1.00 41.37      A16S
ATOM  14121  O5* U   A 678     199.740 103.529 -65.629  1.00 48.35      A16S
ATOM  14122  C5* U   A 678     199.532 102.493 -64.647  1.00 48.35      A16S
ATOM  14123  C4* U   A 678     198.960 101.240 -65.277  1.00 48.35      A16S
ATOM  14124  O4* U   A 678     197.600 101.453 -65.720  1.00 48.35      A16S
ATOM  14125  C1* U   A 678     197.358 100.714 -66.901  1.00 48.35      A16S
ATOM  14126  N1  U   A 678     197.070 101.665 -67.988  1.00 41.37      A16S
ATOM  14127  C6  U   A 678     197.479 102.977 -67.902  1.00 41.37      A16S
ATOM  14128  C2  U   A 678     196.365 101.213 -69.098  1.00 41.37      A16S
ATOM  14129  O2  U   A 678     195.979 100.058 -69.224  1.00 41.37      A16S
ATOM  14130  N3  U   A 678     196.123 102.171 -70.054  1.00 41.37      A16S
ATOM  14131  C4  U   A 678     196.494 103.500 -70.012  1.00 41.37      A16S
ATOM  14132  O4  U   A 678     196.160 104.256 -70.923  1.00 41.37      A16S
ATOM  14133  C5  U   A 678     197.217 103.879 -68.846  1.00 41.37      A16S
ATOM  14134  C2* U   A 678     198.596  99.867 -67.154  1.00 48.35      A16S
ATOM  14135  O2* U   A 678     198.390  98.655 -66.466  1.00 48.35      A16S
ATOM  14136  C3* U   A 678     199.679 100.706 -66.493  1.00 48.35      A16S
ATOM  14137  O3* U   A 678     200.818  99.950 -66.104  1.00 48.35      A16S
ATOM  14138  P   C   A 679     202.142  99.986 -67.019  1.00 53.94      A16S
ATOM  14139  O1P C   A 679     203.225  99.386 -66.212  1.00 40.26      A16S
ATOM  14140  O2P C   A 679     202.304 101.362 -67.561  1.00 40.26      A16S
ATOM  14141  O5* C   A 679     201.786  98.997 -68.215  1.00 53.94      A16S
ATOM  14142  C5* C   A 679     201.365  97.653 -67.938  1.00 53.94      A16S
ATOM  14143  C4* C   A 679     200.676  97.063 -69.138  1.00 53.94      A16S
ATOM  14144  O4* C   A 679     199.423  97.745 -69.372  1.00 53.94      A16S
ATOM  14145  C1* C   A 679     199.154  97.789 -70.759  1.00 53.94      A16S
ATOM  14146  N1  C   A 679     199.068  99.195 -71.167  1.00 40.26      A16S
ATOM  14147  C6  C   A 679     199.639 100.180 -70.414  1.00 40.26      A16S
ATOM  14148  C2  C   A 679     198.384  99.514 -72.344  1.00 40.26      A16S
ATOM  14149  O2  C   A 679     197.900  98.600 -73.021  1.00 40.26      A16S
ATOM  14150  N3  C   A 679     198.273 100.807 -72.718  1.00 40.26      A16S
ATOM  14151  C4  C   A 679     198.830 101.761 -71.974  1.00 40.26      A16S
ATOM  14152  N4  C   A 679     198.705 103.020 -72.380  1.00 40.26      A16S
ATOM  14153  C5  C   A 679     199.546 101.464 -70.777  1.00 40.26      A16S
ATOM  14154  C2* C   A 679     200.284  97.056 -71.470  1.00 53.94      A16S
ATOM  14155  O2* C   A 679     199.900  95.708 -71.672  1.00 53.94      A16S
ATOM  14156  C3* C   A 679     201.407  97.194 -70.458  1.00 53.94      A16S
ATOM  14157  O3* C   A 679     202.409  96.213 -70.616  1.00 53.94      A16S
ATOM  14158  P   C   A 680     203.733  96.583 -71.435  1.00 61.82      A16S
ATOM  14159  O1P C   A 680     204.686  95.460 -71.239  1.00 44.24      A16S
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ATOM  14160  O2P C   A 680     204.149  97.970 -71.088  1.00 44.24      A16S
ATOM  14161  O5* C   A 680     203.212  96.588 -72.934  1.00 61.82      A16S
ATOM  14162  C5* C   A 680     202.634  95.406 -73.494  1.00 61.82      A16S
ATOM  14163  C4* C   A 680     202.129  95.682 -74.879  1.00 61.82      A16S
ATOM  14164  O4* C   A 680     201.017  96.602 -74.805  1.00 61.82      A16S
ATOM  14165  C1* C   A 680     200.996  97.412 -75.962  1.00 61.82      A16S
ATOM  14166  N1  C   A 680     201.041  98.826 -75.569  1.00 44.24      A16S
ATOM  14167  C6  C   A 680     201.417  99.210 -74.317  1.00 44.24      A16S
ATOM  14168  C2  C   A 680     200.686  99.781 -76.520  1.00 44.24      A16S
ATOM  14169  O2  C   A 680     200.365  99.394 -77.656  1.00 44.24      A16S
ATOM  14170  N3  C   A 680     200.706 101.092 -76.191  1.00 44.24      A16S
ATOM  14171  C4  C   A 680     201.072 101.457 -74.967  1.00 44.24      A16S
ATOM  14172  N4  C   A 680     201.079 102.756 -74.678  1.00 44.24      A16S
ATOM  14173  C5  C   A 680     201.448 100.504 -73.977  1.00 44.24      A16S
ATOM  14174  C2* C   A 680     202.178  97.012 -76.840  1.00 61.82      A16S
ATOM  14175  O2* C   A 680     201.714  96.119 -77.831  1.00 61.82      A16S
ATOM  14176  C3* C   A 680     203.105  96.358 -75.824  1.00 61.82      A16S
ATOM  14177  O3* C   A 680     204.008  95.442 -76.421  1.00 61.82      A16S
ATOM  14178  P   C   A 681     205.407  95.979 -76.997  1.00 55.47      A16S
ATOM  14179  O1P C   A 681     206.082  94.772 -77.515  1.00 48.03      A16S
ATOM  14180  O2P C   A 681     206.106  96.833 -75.998  1.00 48.03      A16S
ATOM  14181  O5* C   A 681     204.980  96.925 -78.205  1.00 55.47      A16S
ATOM  14182  C5* C   A 681     204.492  96.370 -79.425  1.00 55.47      A16S
ATOM  14183  C4* C   A 681     204.328  97.451 -80.453  1.00 55.47      A16S
ATOM  14184  O4* C   A 681     203.254  98.327 -80.043  1.00 55.47      A16S
ATOM  14185  C1* C   A 681     203.503  99.641 -80.509  1.00 55.47      A16S
ATOM  14186  N1  C   A 681     203.582 100.552 -79.357  1.00 48.03      A16S
ATOM  14187  C6  C   A 681     203.811 100.076 -78.099  1.00 48.03      A16S
ATOM  14188  C2  C   A 681     203.454 101.943 -79.579  1.00 48.03      A16S
ATOM  14189  O2  C   A 681     203.203 102.354 -80.724  1.00 48.03      A16S
ATOM  14190  N3  C   A 681     203.611 102.794 -78.545  1.00 48.03      A16S
ATOM  14191  C4  C   A 681     203.877 102.318 -77.331  1.00 48.03      A16S
ATOM  14192  N4  C   A 681     204.076 103.194 -76.353  1.00 48.03      A16S
ATOM  14193  C5  C   A 681     203.965 100.915 -77.067  1.00 48.03      A16S
ATOM  14194  C2* C   A 681     204.836  99.620 -81.253  1.00 55.47      A16S
ATOM  14195  O2* C   A 681     204.632  99.506 -82.649  1.00 55.47      A16S
ATOM  14196  C3* C   A 681     205.501  98.397 -80.642  1.00 55.47      A16S
ATOM  14197  O3* C   A 681     206.544  97.896 -81.465  1.00 55.47      A16S
ATOM  14198  P   G   A 682     208.040  98.462 -81.276  1.00 65.44      A16S
ATOM  14199  O1P G   A 682     208.852  97.668 -82.221  1.00 58.78      A16S
ATOM  14200  O2P G   A 682     208.410  98.484 -79.841  1.00 58.78      A16S
ATOM  14201  O5* G   A 682     207.950  99.957 -81.806  1.00 65.44      A16S
ATOM  14202  C5* G   A 682     207.690 100.194 -83.185  1.00 65.44      A16S
ATOM  14203  C4* G   A 682     207.694 101.665 -83.482  1.00 65.44      A16S
ATOM  14204  O4* G   A 682     206.532 102.291 -82.887  1.00 65.44      A16S
ATOM  14205  C1* G   A 682     206.830 103.649 -82.590  1.00 65.44      A16S
ATOM  14206  N9  G   A 682     206.674 103.882 -81.156  1.00 58.78      A16S
ATOM  14207  C4  G   A 682     206.563 105.109 -80.559  1.00 58.78      A16S
ATOM  14208  N3  G   A 682     206.502 106.290 -81.199  1.00 58.78      A16S
ATOM  14209  C2  G   A 682     206.453 107.301 -80.357  1.00 58.78      A16S
ATOM  14210  N2  G   A 682     206.376 108.554 -80.827  1.00 58.78      A16S
ATOM  14211  N1  G   A 682     206.475 107.164 -78.995  1.00 58.78      A16S
ATOM  14212  C6  G   A 682     206.549 105.954 -78.317  1.00 58.78      A16S
ATOM  14213  O6  G   A 682     206.601 105.941 -77.082  1.00 58.78      A16S
ATOM  14214  C5  G   A 682     206.575 104.861 -79.208  1.00 58.78      A16S
ATOM  14215  N7  G   A 682     206.630 103.499 -78.956  1.00 58.78      A16S
ATOM  14216  C8  G   A 682     206.677 102.956 -80.140  1.00 58.78      A16S
ATOM  14217  C2* G   A 682     208.283 103.900 -83.003  1.00 65.44      A16S
ATOM  14218  O2* G   A 682     208.328 104.465 -84.298  1.00 65.44      A16S
ATOM  14219  C3* G   A 682     208.861 102.493 -82.969  1.00 65.44      A16S
ATOM  14220  O3* G   A 682     210.025 102.398 -83.772  1.00 65.44      A16S
ATOM  14221  P   G   A 683     211.466 102.711 -83.121  1.00 71.91      A16S
ATOM  14222  O1P G   A 683     212.448 102.421 -84.194  1.00 51.07      A16S
ATOM  14223  O2P G   A 683     211.603 102.027 -81.796  1.00 51.07      A16S
ATOM  14224  O5* G   A 683     211.444 104.288 -82.901  1.00 71.91      A16S
ATOM  14225  C5* G   A 683     211.231 105.154 -84.016  1.00 71.91      A16S
ATOM  14226  C4* G   A 683     211.004 106.570 -83.561  1.00 71.91      A16S
ATOM  14227  O4* G   A 683     209.818 106.650 -82.731  1.00 71.91      A16S
ATOM  14228  C1* G   A 683     209.971 107.701 -81.793  1.00 71.91      A16S
ATOM  14229  N9  G   A 683     209.863 107.163 -80.437  1.00 51.07      A16S
ATOM  14230  C4  G   A 683     209.737 107.910 -79.290  1.00 51.07      A16S
ATOM  14231  N3  G   A 683     209.658 109.255 -79.229  1.00 51.07      A16S
ATOM  14232  C2  G   A 683     209.591 109.689 -77.990  1.00 51.07      A16S
ATOM  14233  N2  G   A 683     209.533 111.001 -77.763  1.00 51.07      A16S
ATOM  14234  N1  G   A 683     209.581 108.868 -76.891  1.00 51.07      A16S
ATOM  14235  C6  G   A 683     209.647 107.477 -76.930  1.00 51.07      A16S
ATOM  14236  O6  G   A 683     209.622 106.827 -75.881  1.00 51.07      A16S
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ATOM  14237  C5  G   A 683     209.736 106.999 -78.257  1.00 51.07      A16S
ATOM  14238  N7  G   A 683     209.831 105.701 -78.743  1.00 51.07      A16S
ATOM  14239  C8  G   A 683     209.896 105.846 -80.039  1.00 51.07      A16S
ATOM  14240  C2* G   A 683     211.342 108.337 -82.034  1.00 71.91      A16S
ATOM  14241  O2* G   A 683     211.188 109.460 -82.881  1.00 71.91      A16S
ATOM  14242  C3* G   A 683     212.094 107.206 -82.720  1.00 71.91      A16S
ATOM  14243  O3* G   A 683     213.140 107.707 -83.530  1.00 71.91      A16S
ATOM  14244  P   A   A 684     214.667 107.525 -83.063  1.00 72.24      A16S
ATOM  14245  O1P A   A 684     215.474 107.971 -84.236  1.00 50.70      A16S
ATOM  14246  O2P A   A 684     214.863 106.152 -82.504  1.00 50.70      A16S
ATOM  14247  O5* A   A 684     214.866 108.592 -81.892  1.00 72.24      A16S
ATOM  14248  C5* A   A 684     214.866 110.005 -82.179  1.00 72.24      A16S
ATOM  14249  C4* A   A 684     214.698 110.813 -80.911  1.00 72.24      A16S
ATOM  14250  O4* A   A 684     213.438 110.477 -80.277  1.00 72.24      A16S
ATOM  14251  C1* A   A 684     213.585 110.514 -78.870  1.00 72.24      A16S
ATOM  14252  N9  A   A 684     213.412 109.154 -78.369  1.00 50.70      A16S
ATOM  14253  C4  A   A 684     213.111 108.791 -77.082  1.00 50.70      A16S
ATOM  14254  N3  A   A 684     212.903 109.601 -76.036  1.00 50.70      A16S
ATOM  14255  C2  A   A 684     212.636 108.892 -74.947  1.00 50.70      A16S
ATOM  14256  N1  A   A 684     212.555 107.566 -74.798  1.00 50.70      A16S
ATOM  14257  C6  A   A 684     212.766 106.787 -75.872  1.00 50.70      A16S
ATOM  14258  N6  A   A 684     212.680 105.475 -75.731  1.00 50.70      A16S
ATOM  14259  C5  A   A 684     213.063 107.410 -77.080  1.00 50.70      A16S
ATOM  14260  N7  A   A 684     213.327 106.907 -78.342  1.00 50.70      A16S
ATOM  14261  C8  A   A 684     213.525 107.980 -79.070  1.00 50.70      A16S
ATOM  14262  C2* A   A 684     214.989 111.027 -78.570  1.00 72.24      A16S
ATOM  14263  O2* A   A 684     214.935 112.432 -78.404  1.00 72.24      A16S
ATOM  14264  C3* A   A 684     215.738 110.598 -79.826  1.00 72.24      A16S
ATOM  14265  O3* A   A 684     216.899 111.378 -80.050  1.00 72.24      A16S
ATOM  14266  P   G   A 685     218.340 110.776 -79.676  1.00 58.63      A16S
ATOM  14267  O1P G   A 685     219.314 111.837 -80.041  1.00 55.09      A16S
ATOM  14268  O2P G   A 685     218.475 109.409 -80.251  1.00 55.09      A16S
ATOM  14269  O5* G   A 685     218.313 110.652 -78.090  1.00 58.63      A16S
ATOM  14270  C5* G   A 685     218.278 111.830 -77.274  1.00 58.63      A16S
ATOM  14271  C4* G   A 685     217.993 111.469 -75.843  1.00 58.63      A16S
ATOM  14272  O4* G   A 685     216.724 110.776 -75.777  1.00 58.63      A16S
ATOM  14273  C1* G   A 685     216.752 109.841 -74.718  1.00 58.63      A16S
ATOM  14274  N9  G   A 685     216.457 108.515 -75.241  1.00 55.09      A16S
ATOM  14275  C4  G   A 685     215.996 107.457 -74.504  1.00 55.09      A16S
ATOM  14276  N3  G   A 685     215.688 107.483 -73.191  1.00 55.09      A16S
ATOM  14277  C2  G   A 685     215.275 106.304 -72.763  1.00 55.09      A16S
ATOM  14278  N2  G   A 685     214.891 106.149 -71.492  1.00 55.09      A16S
ATOM  14279  N1  G   A 685     215.200 105.191 -73.550  1.00 55.09      A16S
ATOM  14280  C6  G   A 685     215.522 105.143 -74.897  1.00 55.09      A16S
ATOM  14281  O6  G   A 685     215.430 104.082 -75.509  1.00 55.09      A16S
ATOM  14282  C5  G   A 685     215.936 106.400 -75.380  1.00 55.09      A16S
ATOM  14283  N7  G   A 685     216.320 106.792 -76.653  1.00 55.09      A16S
ATOM  14284  C8  G   A 685     216.614 108.057 -76.525  1.00 55.09      A16S
ATOM  14285  C2* G   A 685     218.136 109.891 -74.074  1.00 58.63      A16S
ATOM  14286  O2* G   A 685     218.056 110.656 -72.888  1.00 58.63      A16S
ATOM  14287  C3* G   A 685     218.973 110.515 -75.188  1.00 58.63      A16S
ATOM  14288  O3* G   A 685     220.121 111.206 -74.712  1.00 58.63      A16S
ATOM  14289  P   U   A 686     221.505 110.406 -74.481  1.00 57.96      A16S
ATOM  14290  O1P U   A 686     222.577 111.451 -74.549  1.00 53.30      A16S
ATOM  14291  O2P U   A 686     221.577 109.197 -75.354  1.00 53.30      A16S
ATOM  14292  O5* U   A 686     221.406 109.863 -72.990  1.00 57.96      A16S
ATOM  14293  C5* U   A 686     221.018 110.735 -71.933  1.00 57.96      A16S
ATOM  14294  C4* U   A 686     220.868 109.966 -70.661  1.00 57.96      A16S
ATOM  14295  O4* U   A 686     219.760 109.030 -70.764  1.00 57.96      A16S
ATOM  14296  C1* U   A 686     220.179 107.796 -70.244  1.00 57.96      A16S
ATOM  14297  N1  U   A 686     219.276 106.724 -70.679  1.00 53.30      A16S
ATOM  14298  C6  U   A 686     219.452 106.042 -71.846  1.00 53.30      A16S
ATOM  14299  C2  U   A 686     218.238 106.416 -69.834  1.00 53.30      A16S
ATOM  14300  O2  U   A 686     218.027 107.025 -68.801  1.00 53.30      A16S
ATOM  14301  N3  U   A 686     217.450 105.373 -70.235  1.00 53.30      A16S
ATOM  14302  C4  U   A 686     217.581 104.635 -71.378  1.00 53.30      A16S
ATOM  14303  O4  U   A 686     216.792 103.718 -71.598  1.00 53.30      A16S
ATOM  14304  C5  U   A 686     218.659 105.033 -72.217  1.00 53.30      A16S
ATOM  14305  C2* U   A 686     221.656 107.717 -70.600  1.00 57.96      A16S
ATOM  14306  O2* U   A 686     222.291 106.751 -69.798  1.00 57.96      A16S
ATOM  14307  C3* U   A 686     222.081 109.139 -70.261  1.00 57.96      A16S
ATOM  14308  O3* U   A 686     222.162 109.210 -68.856  1.00 57.96      A16S
ATOM  14309  P   A   A 687     223.564 109.500 -68.150  1.00 43.72      A16S
ATOM  14310  O1P A   A 687     223.684 110.989 -68.022  1.00 52.01      A16S
ATOM  14311  O2P A   A 687     224.640 108.716 -68.822  1.00 52.01      A16S
ATOM  14312  O5* A   A 687     223.352 108.895 -66.703  1.00 43.72      A16S
ATOM  14313  C5* A   A 687     222.336 109.423 -65.849  1.00 43.72      A16S
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ATOM  14314  C4* A   A 687     221.752 108.324 -65.020  1.00 43.72      A16S
ATOM  14315  O4* A   A 687     220.849 107.530 -65.816  1.00 43.72      A16S
ATOM  14316  C1* A   A 687     220.944 106.191 -65.408  1.00 43.72      A16S
ATOM  14317  N9  A   A 687     220.443 105.346 -66.487  1.00 52.01      A16S
ATOM  14318  C4  A   A 687     219.541 104.324 -66.344  1.00 52.01      A16S
ATOM  14319  N3  A   A 687     218.951 103.912 -65.211  1.00 52.01      A16S
ATOM  14320  C2  A   A 687     218.142 102.888 -65.454  1.00 52.01      A16S
ATOM  14321  N1  A   A 687     217.882 102.274 -66.609  1.00 52.01      A16S
ATOM  14322  C6  A   A 687     218.496 102.715 -67.725  1.00 52.01      A16S
ATOM  14323  N6  A   A 687     218.248 102.098 -68.876  1.00 52.01      A16S
ATOM  14324  C5  A   A 687     219.366 103.796 -67.605  1.00 52.01      A16S
ATOM  14325  N7  A   A 687     220.131 104.480 -68.533  1.00 52.01      A16S
ATOM  14326  C8  A   A 687     220.748 105.388 -67.819  1.00 52.01      A16S
ATOM  14327  C2* A   A 687     222.403 105.970 -65.030  1.00 43.72      A16S
ATOM  14328  O2* A   A 687     222.457 104.943 -64.067  1.00 43.72      A16S
ATOM  14329  C3* A   A 687     222.780 107.349 -64.491  1.00 43.72      A16S
ATOM  14330  O3* A   A 687     223.505 107.660 -63.296  1.00 43.72      A16S
ATOM  14331  P   G   A 688     222.859 107.400 -61.852  1.00 52.16      A16S
ATOM  14332  O1P G   A 688     223.864 107.898 -60.892  1.00 41.80      A16S
ATOM  14333  O2P G   A 688     222.332 106.015 -61.707  1.00 41.80      A16S
ATOM  14334  O5* G   A 688     221.666 108.441 -61.824  1.00 52.16      A16S
ATOM  14335  C5* G   A 688     220.545 108.254 -60.963  1.00 52.16      A16S
ATOM  14336  C4* G   A 688     219.333 107.955 -61.790  1.00 52.16      A16S
ATOM  14337  O4* G   A 688     219.462 106.619 -62.326  1.00 52.16      A16S
ATOM  14338  C1* G   A 688     218.210 105.972 -62.315  1.00 52.16      A16S
ATOM  14339  N9  G   A 688     218.285 104.912 -61.314  1.00 41.80      A16S
ATOM  14340  C4  G   A 688     217.378 103.911 -61.104  1.00 41.80      A16S
ATOM  14341  N3  G   A 688     216.246 103.717 -61.795  1.00 41.80      A16S
ATOM  14342  C2  G   A 688     215.567 102.689 -61.337  1.00 41.80      A16S
ATOM  14343  N2  G   A 688     214.415 102.367 -61.902  1.00 41.80      A16S
ATOM  14344  N1  G   A 688     215.969 101.906 -60.293  1.00 41.80      A16S
ATOM  14345  C6  G   A 688     217.142 102.084 -59.574  1.00 41.80      A16S
ATOM  14346  O6  G   A 688     217.431 101.310 -58.650  1.00 41.80      A16S
ATOM  14347  C5  G   A 688     217.869 103.186 -60.043  1.00 41.80      A16S
ATOM  14348  N7  G   A 688     219.064 103.713 -59.600  1.00 41.80      A16S
ATOM  14349  C8  G   A 688     219.274 104.732 -60.385  1.00 41.80      A16S
ATOM  14350  C2* G   A 688     217.185 107.035 -61.932  1.00 52.16      A16S
ATOM  14351  O2* G   A 688     216.803 107.743 -63.094  1.00 52.16      A16S
ATOM  14352  C3* G   A 688     218.018 107.941 -61.050  1.00 52.16      A16S
ATOM  14353  O3* G   A 688     217.474 109.246 -60.957  1.00 52.16      A16S
ATOM  14354  P   C   A 689     216.546 109.616 -59.708  1.00 37.05      A16S
ATOM  14355  O1P C   A 689     216.280 111.062 -59.750  1.00 25.31      A16S
ATOM  14356  O2P C   A 689     217.179 109.023 -58.513  1.00 25.31      A16S
ATOM  14357  O5* C   A 689     215.196 108.839 -60.003  1.00 37.05      A16S
ATOM  14358  C5* C   A 689     214.471 109.090 -61.211  1.00 37.05      A16S
ATOM  14359  C4* C   A 689     213.406 108.042 -61.401  1.00 37.05      A16S
ATOM  14360  O4* C   A 689     214.034 106.738 -61.443  1.00 37.05      A16S
ATOM  14361  C1* C   A 689     213.193 105.784 -60.825  1.00 37.05      A16S
ATOM  14362  N1  C   A 689     213.895 105.211 -59.668  1.00 25.31      A16S
ATOM  14363  C6  C   A 689     215.048 105.765 -59.195  1.00 25.31      A16S
ATOM  14364  C2  C   A 689     213.357 104.066 -59.060  1.00 25.31      A16S
ATOM  14365  O2  C   A 689     212.275 103.610 -59.473  1.00 25.31      A16S
ATOM  14366  N3  C   A 689     214.011 103.499 -58.031  1.00 25.31      A16S
ATOM  14367  C4  C   A 689     215.135 104.047 -57.579  1.00 25.31      A16S
ATOM  14368  N4  C   A 689     215.726 103.466 -56.545  1.00 25.31      A16S
ATOM  14369  C5  C   A 689     215.694 105.221 -58.163  1.00 25.31      A16S
ATOM  14370  C2* C   A 689     211.910 106.492 -60.419  1.00 37.05      A16S
ATOM  14371  O2* C   A 689     210.998 106.343 -61.478  1.00 37.05      A16S
ATOM  14372  C3* C   A 689     212.397 107.921 -60.273  1.00 37.05      A16S
ATOM  14373  O3* C   A 689     211.354 108.855 -60.404  1.00 37.05      A16S
ATOM  14374  P   G   A 690     210.792 109.580 -59.097  1.00 38.92      A16S
ATOM  14375  O1P G   A 690     209.744 110.508 -59.578  1.00 40.74      A16S
ATOM  14376  O2P G   A 690     211.916 110.107 -58.279  1.00 40.74      A16S
ATOM  14377  O5* G   A 690     210.110 108.394 -58.294  1.00 38.92      A16S
ATOM  14378  C5* G   A 690     209.047 107.643 -58.882  1.00 38.92      A16S
ATOM  14379  C4* G   A 690     208.816 106.383 -58.093  1.00 38.92      A16S
ATOM  14380  O4* G   A 690     210.030 105.602 -58.112  1.00 38.92      A16S
ATOM  14381  C1* G   A 690     210.210 104.974 -56.862  1.00 38.92      A16S
ATOM  14382  N9  G   A 690     211.451 105.471 -56.299  1.00 40.74      A16S
ATOM  14383  C4  G   A 690     212.254 104.798 -55.436  1.00 40.74      A16S
ATOM  14384  N3  G   A 690     212.027 103.566 -54.960  1.00 40.74      A16S
ATOM  14385  C2  G   A 690     212.985 103.174 -54.152  1.00 40.74      A16S
ATOM  14386  N2  G   A 690     212.921 101.962 -53.591  1.00 40.74      A16S
ATOM  14387  N1  G   A 690     214.077 103.936 -53.834  1.00 40.74      A16S
ATOM  14388  C6  G   A 690     214.325 105.213 -54.315  1.00 40.74      A16S
ATOM  14389  O6  G   A 690     215.344 105.823 -53.960  1.00 40.74      A16S
ATOM  14390  C5  G   A 690     213.311 105.641 -55.184  1.00 40.74      A16S
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ATOM  14391  N7  G   A 690     213.168 106.831 -55.878  1.00 40.74      A16S
ATOM  14392  C8  G   A 690     212.047 106.686 -56.527  1.00 40.74      A16S
ATOM  14393  C2* G   A 690     208.996 105.287 -55.993  1.00 38.92      A16S
ATOM  14394  O2* G   A 690     208.071 104.232 -56.138  1.00 38.92      A16S
ATOM  14395  C3* G   A 690     208.504 106.583 -56.618  1.00 38.92      A16S
ATOM  14396  O3* G   A 690     207.109 106.761 -56.439  1.00 38.92      A16S
ATOM  14397  P   G   A 691     206.575 107.965 -55.534  1.00 43.97      A16S
ATOM  14398  O1P G   A 691     205.119 108.077 -55.737  1.00 43.30      A16S
ATOM  14399  O2P G   A 691     207.430 109.149 -55.754  1.00 43.30      A16S
ATOM  14400  O5* G   A 691     206.798 107.413 -54.070  1.00 43.97      A16S
ATOM  14401  C5* G   A 691     206.096 106.252 -53.650  1.00 43.97      A16S
ATOM  14402  C4* G   A 691     206.750 105.677 -52.443  1.00 43.97      A16S
ATOM  14403  O4* G   A 691     208.031 105.118 -52.808  1.00 43.97      A16S
ATOM  14404  C1* G   A 691     208.964 105.368 -51.778  1.00 43.97      A16S
ATOM  14405  N9  G   A 691     209.979 106.267 -52.305  1.00 43.30      A16S
ATOM  14406  C4  G   A 691     211.314 106.258 -52.015  1.00 43.30      A16S
ATOM  14407  N3  G   A 691     211.946 105.353 -51.254  1.00 43.30      A16S
ATOM  14408  C2  G   A 691     213.221 105.629 -51.127  1.00 43.30      A16S
ATOM  14409  N2  G   A 691     214.010 104.793 -50.427  1.00 43.30      A16S
ATOM  14410  N1  G   A 691     213.820 106.735 -51.685  1.00 43.30      A16S
ATOM  14411  C6  G   A 691     213.169 107.681 -52.468  1.00 43.30      A16S
ATOM  14412  O6  G   A 691     213.782 108.658 -52.914  1.00 43.30      A16S
ATOM  14413  C5  G   A 691     211.826 107.370 -52.632  1.00 43.30      A16S
ATOM  14414  N7  G   A 691     210.844 108.034 -53.343  1.00 43.30      A16S
ATOM  14415  C8  G   A 691     209.768 107.336 -53.134  1.00 43.30      A16S
ATOM  14416  C2* G   A 691     208.217 106.061 -50.636  1.00 43.97      A16S
ATOM  14417  O2* G   A 691     207.783 105.097 -49.703  1.00 43.97      A16S
ATOM  14418  C3* G   A 691     207.061 106.708 -51.383  1.00 43.97      A16S
ATOM  14419  O3* G   A 691     205.923 106.932 -50.582  1.00 43.97      A16S
ATOM  14420  P   U   A 692     205.751 108.330 -49.818  1.00 40.73      A16S
ATOM  14421  O1P U   A 692     204.365 108.306 -49.296  1.00 53.32      A16S
ATOM  14422  O2P U   A 692     206.192 109.464 -50.663  1.00 53.32      A16S
ATOM  14423  O5* U   A 692     206.733 108.174 -48.587  1.00 40.73      A16S
ATOM  14424  C5* U   A 692     206.523 107.126 -47.652  1.00 40.73      A16S
ATOM  14425  C4* U   A 692     207.577 107.174 -46.590  1.00 40.73      A16S
ATOM  14426  O4* U   A 692     208.856 106.786 -47.150  1.00 40.73      A16S
ATOM  14427  C1* U   A 692     209.887 107.523 -46.527  1.00 40.73      A16S
ATOM  14428  N1  U   A 692     210.617 108.251 -47.580  1.00 53.32      A16S
ATOM  14429  C6  U   A 692     209.962 108.729 -48.691  1.00 53.32      A16S
ATOM  14430  C2  U   A 692     211.987 108.431 -47.434  1.00 53.32      A16S
ATOM  14431  O2  U   A 692     212.612 108.033 -46.465  1.00 53.32      A16S
ATOM  14432  N3  U   A 692     212.602 109.095 -48.473  1.00 53.32      A16S
ATOM  14433  C4  U   A 692     212.004 109.589 -49.621  1.00 53.32      A16S
ATOM  14434  O4  U   A 692     212.695 110.148 -50.489  1.00 53.32      A16S
ATOM  14435  C5  U   A 692     210.589 109.372 -49.687  1.00 53.32      A16S
ATOM  14436  C2* U   A 692     209.237 108.386 -45.437  1.00 40.73      A16S
ATOM  14437  O2* U   A 692     209.196 107.649 -44.227  1.00 40.73      A16S
ATOM  14438  C3* U   A 692     207.817 108.536 -45.959  1.00 40.73      A16S
ATOM  14439  O3* U   A 692     206.875 108.774 -44.910  1.00 40.73      A16S
ATOM  14440  P   G   A 693     206.639 110.270 -44.357  1.00 63.43      A16S
ATOM  14441  O1P G   A 693     205.356 110.252 -43.629  1.00 42.11      A16S
ATOM  14442  O2P G   A 693     206.831 111.250 -45.451  1.00 42.11      A16S
ATOM  14443  O5* G   A 693     207.796 110.474 -43.281  1.00 63.43      A16S
ATOM  14444  C5* G   A 693     207.925 111.721 -42.594  1.00 63.43      A16S
ATOM  14445  C4* G   A 693     209.198 111.759 -41.794  1.00 63.43      A16S
ATOM  14446  O4* G   A 693     209.077 110.952 -40.604  1.00 63.43      A16S
ATOM  14447  C1* G   A 693     210.325 110.356 -40.299  1.00 63.43      A16S
ATOM  14448  N9  G   A 693     210.119 108.912 -40.281  1.00 42.11      A16S
ATOM  14449  C4  G   A 693     210.981 107.933 -39.835  1.00 42.11      A16S
ATOM  14450  N3  G   A 693     212.222 108.117 -39.352  1.00 42.11      A16S
ATOM  14451  C2  G   A 693     212.783 106.967 -38.997  1.00 42.11      A16S
ATOM  14452  N2  G   A 693     214.022 106.937 -38.496  1.00 42.11      A16S
ATOM  14453  N1  G   A 693     212.175 105.756 -39.107  1.00 42.11      A16S
ATOM  14454  C6  G   A 693     210.902 105.551 -39.607  1.00 42.11      A16S
ATOM  14455  O6  G   A 693     210.441 104.412 -39.673  1.00 42.11      A16S
ATOM  14456  C5  G   A 693     210.293 106.750 -39.987  1.00 42.11      A16S
ATOM  14457  N7  G   A 693     209.037 106.971 -40.530  1.00 42.11      A16S
ATOM  14458  C8  G   A 693     208.981 108.262 -40.695  1.00 42.11      A16S
ATOM  14459  C2* G   A 693     211.338 110.857 -41.330  1.00 63.43      A16S
ATOM  14460  O2* G   A 693     212.000 111.979 -40.782  1.00 63.43      A16S
ATOM  14461  C3* G   A 693     210.435 111.247 -42.496  1.00 63.43      A16S
ATOM  14462  O3* G   A 693     210.991 112.281 -43.296  1.00 63.43      A16S
ATOM  14463  P   A   A 694     211.677 111.916 -44.701  1.00 39.38      A16S
ATOM  14464  O1P A   A 694     212.306 113.168 -45.194  1.00 44.40      A16S
ATOM  14465  O2P A   A 694     210.698 111.208 -45.567  1.00 44.40      A16S
ATOM  14466  O5* A   A 694     212.803 110.886 -44.270  1.00 39.38      A16S
ATOM  14467  C5* A   A 694     213.958 111.340 -43.598  1.00 39.38      A16S
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ATOM  14468  C4* A   A 694     214.853 110.184 -43.305  1.00 39.38      A16S
ATOM  14469  O4* A   A 694     214.203 109.320 -42.345  1.00 39.38      A16S
ATOM  14470  C1* A   A 694     214.602 107.979 -42.558  1.00 39.38      A16S
ATOM  14471  N9  A   A 694     213.411 107.166 -42.779  1.00 44.40      A16S
ATOM  14472  C4  A   A 694     213.252 105.863 -42.383  1.00 44.40      A16S
ATOM  14473  N3  A   A 694     214.139 105.098 -41.730  1.00 44.40      A16S
ATOM  14474  C2  A   A 694     213.634 103.887 -41.507  1.00 44.40      A16S
ATOM  14475  N1  A   A 694     212.438 103.399 -41.838  1.00 44.40      A16S
ATOM  14476  C6  A   A 694     211.576 104.196 -42.495  1.00 44.40      A16S
ATOM  14477  N6  A   A 694     210.380 103.711 -42.817  1.00 44.40      A16S
ATOM  14478  C5  A   A 694     211.990 105.496 -42.794  1.00 44.40      A16S
ATOM  14479  N7  A   A 694     211.365 106.543 -43.444  1.00 44.40      A16S
ATOM  14480  C8  A   A 694     212.249 107.509 -43.408  1.00 44.40      A16S
ATOM  14481  C2* A   A 694     215.530 107.966 -43.765  1.00 39.38      A16S
ATOM  14482  O2* A   A 694     216.865 107.953 -43.313  1.00 39.38      A16S
ATOM  14483  C3* A   A 694     215.144 109.263 -44.468  1.00 39.38      A16S
ATOM  14484  O3* A   A 694     216.161 109.749 -45.329  1.00 39.38      A16S
ATOM  14485  P   A   A 695     216.495 108.938 -46.674  1.00 39.13      A16S
ATOM  14486  O1P A   A 695     217.884 109.311 -47.059  1.00 39.00      A16S
ATOM  14487  O2P A   A 695     215.385 109.130 -47.649  1.00 39.00      A16S
ATOM  14488  O5* A   A 695     216.512 107.431 -46.161  1.00 39.13      A16S
ATOM  14489  C5* A   A 695     216.520 106.336 -47.061  1.00 39.13      A16S
ATOM  14490  C4* A   A 695     216.548 105.049 -46.284  1.00 39.13      A16S
ATOM  14491  O4* A   A 695     215.465 105.054 -45.330  1.00 39.13      A16S
ATOM  14492  C1* A   A 695     214.866 103.769 -45.268  1.00 39.13      A16S
ATOM  14493  N9  A   A 695     213.483 103.899 -45.741  1.00 39.00      A16S
ATOM  14494  C4  A   A 695     212.506 102.932 -45.739  1.00 39.00      A16S
ATOM  14495  N3  A   A 695     212.602 101.673 -45.288  1.00 39.00      A16S
ATOM  14496  C2  A   A 695     211.456 101.026 -45.468  1.00 39.00      A16S
ATOM  14497  N1  A   A 695     210.319 101.461 -46.002  1.00 39.00      A16S
ATOM  14498  C6  A   A 695     210.255 102.735 -46.431  1.00 39.00      A16S
ATOM  14499  N6  A   A 695     209.115 103.180 -46.943  1.00 39.00      A16S
ATOM  14500  C5  A   A 695     211.393 103.521 -46.306  1.00 39.00      A16S
ATOM  14501  N7  A   A 695     211.650 104.838 -46.649  1.00 39.00      A16S
ATOM  14502  C8  A   A 695     212.896 105.015 -46.293  1.00 39.00      A16S
ATOM  14503  C2* A   A 695     215.718 102.834 -46.127  1.00 39.13      A16S
ATOM  14504  O2* A   A 695     216.707 102.243 -45.317  1.00 39.13      A16S
ATOM  14505  C3* A   A 695     216.337 103.804 -47.120  1.00 39.13      A16S
ATOM  14506  O3* A   A 695     217.578 103.341 -47.618  1.00 39.13      A16S
ATOM  14507  P   A   A 696     217.682 102.837 -49.133  1.00 42.23      A16S
ATOM  14508  O1P A   A 696     219.120 102.689 -49.454  1.00 32.57      A16S
ATOM  14509  O2P A   A 696     216.838 103.715 -49.984  1.00 32.57      A16S
ATOM  14510  O5* A   A 696     217.053 101.377 -49.066  1.00 42.23      A16S
ATOM  14511  C5* A   A 696     217.716 100.340 -48.338  1.00 42.23      A16S
ATOM  14512  C4* A   A 696     216.741  99.267 -47.944  1.00 42.23      A16S
ATOM  14513  O4* A   A 696     215.668  99.877 -47.201  1.00 42.23      A16S
ATOM  14514  C1* A   A 696     214.437  99.258 -47.532  1.00 42.23      A16S
ATOM  14515  N9  A   A 696     213.609 100.256 -48.203  1.00 32.57      A16S
ATOM  14516  C4  A   A 696     212.270 100.183 -48.481  1.00 32.57      A16S
ATOM  14517  N3  A   A 696     211.433  99.180 -48.199  1.00 32.57      A16S
ATOM  14518  C2  A   A 696     210.211  99.469 -48.601  1.00 32.57      A16S
ATOM  14519  N1  A   A 696     209.761 100.562 -49.209  1.00 32.57      A16S
ATOM  14520  C6  A   A 696     210.630 101.553 -49.474  1.00 32.57      A16S
ATOM  14521  N6  A   A 696     210.184 102.661 -50.068  1.00 32.57      A16S
ATOM  14522  C5  A   A 696     211.952 101.368 -49.101  1.00 32.57      A16S
ATOM  14523  N7  A   A 696     213.070 102.175 -49.225  1.00 32.57      A16S
ATOM  14524  C8  A   A 696     214.023 101.470 -48.679  1.00 32.57      A16S
ATOM  14525  C2* A   A 696     214.759  98.069 -48.427  1.00 42.23      A16S
ATOM  14526  O2* A   A 696     214.945  96.934 -47.597  1.00 42.23      A16S
ATOM  14527  C3* A   A 696     216.053  98.533 -49.080  1.00 42.23      A16S
ATOM  14528  O3* A   A 696     216.841  97.440 -49.504  1.00 42.23      A16S
ATOM  14529  P   U   A 697     216.762  96.937 -51.020  1.00 42.80      A16S
ATOM  14530  O1P U   A 697     217.795  95.890 -51.102  1.00 35.46      A16S
ATOM  14531  O2P U   A 697     216.808  98.096 -51.945  1.00 35.46      A16S
ATOM  14532  O5* U   A 697     215.355  96.204 -51.131  1.00 42.80      A16S
ATOM  14533  C5* U   A 697     215.127  94.973 -50.422  1.00 42.80      A16S
ATOM  14534  C4* U   A 697     213.660  94.588 -50.449  1.00 42.80      A16S
ATOM  14535  O4* U   A 697     212.843  95.597 -49.792  1.00 42.80      A16S
ATOM  14536  C1* U   A 697     211.568  95.642 -50.399  1.00 42.80      A16S
ATOM  14537  N1  U   A 697     211.358  96.970 -50.988  1.00 35.46      A16S
ATOM  14538  C6  U   A 697     212.386  97.711 -51.506  1.00 35.46      A16S
ATOM  14539  C2  U   A 697     210.066  97.433 -51.029  1.00 35.46      A16S
ATOM  14540  O2  U   A 697     209.134  96.822 -50.534  1.00 35.46      A16S
ATOM  14541  N3  U   A 697     209.896  98.640 -51.663  1.00 35.46      A16S
ATOM  14542  C4  U   A 697     210.870  99.418 -52.228  1.00 35.46      A16S
ATOM  14543  O4  U   A 697     210.546 100.422 -52.858  1.00 35.46      A16S
ATOM  14544  C5  U   A 697     212.193  98.890 -52.106  1.00 35.46      A16S
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ATOM  14545  C2* U   A 697     211.540  94.576 -51.487  1.00 42.80      A16S
ATOM  14546  O2* U   A 697     210.997  93.395 -50.942  1.00 42.80      A16S
ATOM  14547  C3* U   A 697     213.018  94.430 -51.812  1.00 42.80      A16S
ATOM  14548  O3* U   A 697     213.302  93.164 -52.379  1.00 42.80      A16S
ATOM  14549  P   G   A 698     213.766  93.076 -53.918  1.00 43.29      A16S
ATOM  14550  O1P G   A 698     213.735  91.620 -54.285  1.00 28.17      A16S
ATOM  14551  O2P G   A 698     215.030  93.852 -54.032  1.00 28.17      A16S
ATOM  14552  O5* G   A 698     212.667  93.896 -54.734  1.00 43.29      A16S
ATOM  14553  C5* G   A 698     211.286  93.521 -54.699  1.00 43.29      A16S
ATOM  14554  C4* G   A 698     210.474  94.508 -55.484  1.00 43.29      A16S
ATOM  14555  O4* G   A 698     210.552  95.805 -54.846  1.00 43.29      A16S
ATOM  14556  C1* G   A 698     210.572  96.824 -55.832  1.00 43.29      A16S
ATOM  14557  N9  G   A 698     211.819  97.560 -55.674  1.00 28.17      A16S
ATOM  14558  C4  G   A 698     212.139  98.795 -56.184  1.00 28.17      A16S
ATOM  14559  N3  G   A 698     211.358  99.564 -56.963  1.00 28.17      A16S
ATOM  14560  C2  G   A 698     211.943 100.720 -57.255  1.00 28.17      A16S
ATOM  14561  N2  G   A 698     211.322 101.624 -58.014  1.00 28.17      A16S
ATOM  14562  N1  G   A 698     213.184 101.077 -56.824  1.00 28.17      A16S
ATOM  14563  C6  G   A 698     214.008 100.284 -56.040  1.00 28.17      A16S
ATOM  14564  O6  G   A 698     215.137 100.689 -55.724  1.00 28.17      A16S
ATOM  14565  C5  G   A 698     213.399  99.063 -55.716  1.00 28.17      A16S
ATOM  14566  N7  G   A 698     213.877  98.012 -54.962  1.00 28.17      A16S
ATOM  14567  C8  G   A 698     212.909  97.143 -54.965  1.00 28.17      A16S
ATOM  14568  C2* G   A 698     210.470  96.149 -57.202  1.00 43.29      A16S
ATOM  14569  O2* G   A 698     209.138  96.128 -57.652  1.00 43.29      A16S
ATOM  14570  C3* G   A 698     210.974  94.750 -56.896  1.00 43.29      A16S
ATOM  14571  O3* G   A 698     210.485  93.794 -57.824  1.00 43.29      A16S
ATOM  14572  P   C   A 699     211.384  93.401 -59.098  1.00 44.98      A16S
ATOM  14573  O1P C   A 699     210.646  92.313 -59.794  1.00 38.19      A16S
ATOM  14574  O2P C   A 699     212.784  93.160 -58.642  1.00 38.19      A16S
ATOM  14575  O5* C   A 699     211.378  94.726 -59.989  1.00 44.98      A16S
ATOM  14576  C5* C   A 699     210.202  95.096 -60.717  1.00 44.98      A16S
ATOM  14577  C4* C   A 699     210.355  96.458 -61.345  1.00 44.98      A16S
ATOM  14578  O4* C   A 699     210.566  97.454 -60.315  1.00 44.98      A16S
ATOM  14579  C1* C   A 699     211.360  98.514 -60.826  1.00 44.98      A16S
ATOM  14580  N1  C   A 699     212.627  98.581 -60.081  1.00 38.19      A16S
ATOM  14581  C6  C   A 699     213.089  97.519 -59.358  1.00 38.19      A16S
ATOM  14582  C2  C   A 699     213.370  99.753 -60.156  1.00 38.19      A16S
ATOM  14583  O2  C   A 699     212.905 100.705 -60.779  1.00 38.19      A16S
ATOM  14584  N3  C   A 699     214.566  99.822 -59.552  1.00 38.19      A16S
ATOM  14585  C4  C   A 699     215.023  98.775 -58.873  1.00 38.19      A16S
ATOM  14586  N4  C   A 699     216.220  98.877 -58.308  1.00 38.19      A16S
ATOM  14587  C5  C   A 699     214.274  97.573 -58.747  1.00 38.19      A16S
ATOM  14588  C2* C   A 699     211.673  98.180 -62.274  1.00 44.98      A16S
ATOM  14589  O2* C   A 699     210.738  98.819 -63.102  1.00 44.98      A16S
ATOM  14590  C3* C   A 699     211.538  96.669 -62.260  1.00 44.98      A16S
ATOM  14591  O3* C   A 699     211.387  96.116 -63.541  1.00 44.98      A16S
ATOM  14592  P   G   A 700     212.645  95.368 -64.205  1.00 42.61      A16S
ATOM  14593  O1P G   A 700     212.124  94.640 -65.389  1.00 40.10      A16S
ATOM  14594  O2P G   A 700     213.373  94.610 -63.150  1.00 40.10      A16S
ATOM  14595  O5* G   A 700     213.574  96.574 -64.662  1.00 42.61      A16S
ATOM  14596  C5* G   A 700     213.066  97.555 -65.561  1.00 42.61      A16S
ATOM  14597  C4* G   A 700     214.098  98.611 -65.836  1.00 42.61      A16S
ATOM  14598  O4* G   A 700     214.215  99.490 -64.696  1.00 42.61      A16S
ATOM  14599  C1* G   A 700     215.538  99.987 -64.618  1.00 42.61      A16S
ATOM  14600  N9  G   A 700     216.147  99.500 -63.388  1.00 40.10      A16S
ATOM  14601  C4  G   A 700     217.274 100.006 -62.802  1.00 40.10      A16S
ATOM  14602  N3  G   A 700     217.973 101.070 -63.235  1.00 40.10      A16S
ATOM  14603  C2  G   A 700     219.028 101.297 -62.491  1.00 40.10      A16S
ATOM  14604  N2  G   A 700     219.834 102.333 -62.772  1.00 40.10      A16S
ATOM  14605  N1  G   A 700     219.377 100.531 -61.413  1.00 40.10      A16S
ATOM  14606  C6  G   A 700     218.670  99.426 -60.955  1.00 40.10      A16S
ATOM  14607  O6  G   A 700     219.082  98.790 -59.982  1.00 40.10      A16S
ATOM  14608  C5  G   A 700     217.529  99.185 -61.731  1.00 40.10      A16S
ATOM  14609  N7  G   A 700     216.558  98.202 -61.617  1.00 40.10      A16S
ATOM  14610  C8  G   A 700     215.754  98.432 -62.617  1.00 40.10      A16S
ATOM  14611  C2* G   A 700     216.301  99.434 -65.820  1.00 42.61      A16S
ATOM  14612  O2* G   A 700     216.211 100.377 -66.877  1.00 42.61      A16S
ATOM  14613  C3* G   A 700     215.523  98.158 -66.107  1.00 42.61      A16S
ATOM  14614  O3* G   A 700     215.714  97.714 -67.440  1.00 42.61      A16S
ATOM  14615  P   C   A 701     216.373  96.272 -67.712  1.00 57.17      A16S
ATOM  14616  O1P C   A 701     215.307  95.414 -68.291  1.00 60.93      A16S
ATOM  14617  O2P C   A 701     217.049  95.843 -66.467  1.00 60.93      A16S
ATOM  14618  O5* C   A 701     217.471  96.557 -68.839  1.00 57.17      A16S
ATOM  14619  C5* C   A 701     218.183  97.819 -68.901  1.00 57.17      A16S
ATOM  14620  C4* C   A 701     219.486  97.683 -69.678  1.00 57.17      A16S
ATOM  14621  O4* C   A 701     220.098  98.993 -69.711  1.00 57.17      A16S
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ATOM  14622  C1*  C   A 701     221.501  98.875 -69.585  1.00 57.17      A16S
ATOM  14623  N1   C   A 701     222.010  99.917 -68.673  1.00 60.93      A16S
ATOM  14624  C6   C   A 701     221.579 100.012 -67.380  1.00 60.93      A16S
ATOM  14625  C2   C   A 701     222.946 100.821 -69.165  1.00 60.93      A16S
ATOM  14626  O2   C   A 701     223.348 100.688 -70.316  1.00 60.93      A16S
ATOM  14627  N3   C   A 701     223.404 101.810 -68.376  1.00 60.93      A16S
ATOM  14628  C4   C   A 701     222.980 101.902 -67.120  1.00 60.93      A16S
ATOM  14629  N4   C   A 701     223.474 102.894 -66.368  1.00 60.93      A16S
ATOM  14630  C5   C   A 701     222.034 100.980 -66.573  1.00 60.93      A16S
ATOM  14631  C2*  C   A 701     221.882  97.428 -69.274  1.00 57.17      A16S
ATOM  14632  O2*  C   A 701     222.706  96.925 -70.301  1.00 57.17      A16S
ATOM  14633  C3*  C   A 701     220.521  96.763 -69.038  1.00 57.17      A16S
ATOM  14634  O3*  C   A 701     220.357  95.379 -69.454  1.00 57.17      A16S
ATOM  14635  P    A   A 702     220.807  94.866 -70.938  1.00 49.17      A16S
ATOM  14636  O1P  A   A 702     221.724  93.712 -70.742  1.00 77.38      A16S
ATOM  14637  O2P  A   A 702     221.209  95.987 -71.828  1.00 77.38      A16S
ATOM  14638  O5*  A   A 702     219.479  94.265 -71.572  1.00 49.17      A16S
ATOM  14639  C5*  A   A 702     219.035  94.702 -72.866  1.00 49.17      A16S
ATOM  14640  C4*  A   A 702     217.578  94.381 -73.053  1.00 49.17      A16S
ATOM  14641  O4*  A   A 702     217.415  92.942 -73.051  1.00 49.17      A16S
ATOM  14642  C1*  A   A 702     216.414  92.588 -72.140  1.00 49.17      A16S
ATOM  14643  N9   A   A 702     216.713  91.269 -71.595  1.00 77.38      A16S
ATOM  14644  C4   A   A 702     215.924  90.163 -71.772  1.00 77.38      A16S
ATOM  14645  N3   A   A 702     214.779  90.090 -72.469  1.00 77.38      A16S
ATOM  14646  C2   A   A 702     214.277  88.860 -72.417  1.00 77.38      A16S
ATOM  14647  N1   A   A 702     214.751  87.779 -71.790  1.00 77.38      A16S
ATOM  14648  C6   A   A 702     215.903  87.888 -71.095  1.00 77.38      A16S
ATOM  14649  N6   A   A 702     216.365  86.808 -70.460  1.00 77.38      A16S
ATOM  14650  C5   A   A 702     216.541  89.142 -71.081  1.00 77.38      A16S
ATOM  14651  N7   A   A 702     217.712  89.591 -70.490  1.00 77.38      A16S
ATOM  14652  C8   A   A 702     217.769  90.856 -70.827  1.00 77.38      A16S
ATOM  14653  C2*  A   A 702     216.352  93.717 -71.121  1.00 49.17      A16S
ATOM  14654  O2*  A   A 702     215.058  93.740 -70.552  1.00 49.17      A16S
ATOM  14655  C3*  A   A 702     216.625  94.933 -72.000  1.00 49.17      A16S
ATOM  14656  O3*  A   A 702     215.401  95.296 -72.626  1.00 49.17      A16S
ATOM  14657  P    G   A 703     215.158  96.805 -73.112  1.00 59.08      A16S
ATOM  14658  O1P  G   A 703     213.679  97.003 -73.092  1.00 62.78      A16S
ATOM  14659  O2P  G   A 703     215.903  96.993 -74.387  1.00 62.78      A16S
ATOM  14660  O5*  G   A 703     215.865  97.714 -72.005  1.00 59.08      A16S
ATOM  14661  C5*  G   A 703     215.171  98.149 -70.823  1.00 59.08      A16S
ATOM  14662  C4*  G   A 703     215.377  99.635 -70.613  1.00 59.08      A16S
ATOM  14663  O4*  G   A 703     216.797  99.891 -70.525  1.00 59.08      A16S
ATOM  14664  C1*  G   A 703     217.190 100.796 -71.535  1.00 59.08      A16S
ATOM  14665  N9   G   A 703     218.451 100.315 -72.087  1.00 62.78      A16S
ATOM  14666  C4   G   A 703     219.661 100.957 -72.068  1.00 62.78      A16S
ATOM  14667  N3   G   A 703     219.911 102.162 -71.518  1.00 62.78      A16S
ATOM  14668  C2   G   A 703     221.173 102.521 -71.671  1.00 62.78      A16S
ATOM  14669  N2   G   A 703     221.607 103.691 -71.172  1.00 62.78      A16S
ATOM  14670  N1   G   A 703     222.109 101.756 -72.318  1.00 62.78      A16S
ATOM  14671  C6   G   A 703     221.877 100.501 -72.871  1.00 62.78      A16S
ATOM  14672  O6   G   A 703     222.811  99.868 -73.397  1.00 62.78      A16S
ATOM  14673  C5   G   A 703     220.531 100.113 -72.718  1.00 62.78      A16S
ATOM  14674  N7   G   A 703     219.884  98.962 -73.130  1.00 62.78      A16S
ATOM  14675  C8   G   A 703     218.655  99.125 -72.736  1.00 62.78      A16S
ATOM  14676  C2*  G   A 703     216.071 100.803 -72.575  1.00 59.08      A16S
ATOM  14677  O2*  G   A 703     216.005 102.038 -73.262  1.00 59.08      A16S
ATOM  14678  C3*  G   A 703     214.846 100.539 -71.718  1.00 59.08      A16S
ATOM  14679  O3*  G   A 703     214.420 101.773 -71.156  1.00 59.08      A16S
ATOM  14680  P    A   A 704     213.046 102.449 -71.647  1.00 55.65      A16S
ATOM  14681  O1P  A   A 704     212.411 101.519 -72.621  1.00 51.25      A16S
ATOM  14682  O2P  A   A 704     213.296 103.869 -72.036  1.00 51.25      A16S
ATOM  14683  O5*  A   A 704     212.169 102.458 -70.323  1.00 55.65      A16S
ATOM  14684  C5*  A   A 704     211.645 101.240 -69.785  1.00 55.65      A16S
ATOM  14685  C4*  A   A 704     211.682 101.281 -68.282  1.00 55.65      A16S
ATOM  14686  O4*  A   A 704     213.062 101.209 -67.836  1.00 55.65      A16S
ATOM  14687  C1*  A   A 704     213.229 102.011 -66.679  1.00 55.65      A16S
ATOM  14688  N9   A   A 704     214.157 103.098 -66.996  1.00 51.25      A16S
ATOM  14689  C4   A   A 704     214.619 104.024 -66.094  1.00 51.25      A16S
ATOM  14690  N3   A   A 704     214.360 104.072 -64.778  1.00 51.25      A16S
ATOM  14691  C2   A   A 704     214.942 105.127 -64.227  1.00 51.25      A16S
ATOM  14692  N1   A   A 704     215.693 106.068 -64.796  1.00 51.25      A16S
ATOM  14693  C6   A   A 704     215.937 105.993 -66.121  1.00 51.25      A16S
ATOM  14694  N6   A   A 704     216.683 106.947 -66.684  1.00 51.25      A16S
ATOM  14695  C5   A   A 704     215.382 104.914 -66.823  1.00 51.25      A16S
ATOM  14696  N7   A   A 704     215.433 104.538 -68.156  1.00 51.25      A16S
ATOM  14697  C8   A   A 704     214.700 103.452 -68.205  1.00 51.25      A16S
ATOM  14698  C2*  A   A 704     211.857 102.591 -66.317  1.00 55.65      A16S
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ATOM  14699  O2* A   A 704     211.222 101.809 -65.324  1.00 55.65      A16S
ATOM  14700  C3* A   A 704     211.148 102.560 -67.662  1.00 55.65      A16S
ATOM  14701  O3* A   A 704     209.730 102.603 -67.553  1.00 55.65      A16S
ATOM  14702  P    U   A 705     208.948 103.949 -67.974  1.00 53.86      A16S
ATOM  14703  O1P U   A 705     207.507 103.725 -67.697  1.00 60.90      A16S
ATOM  14704  O2P U   A 705     209.372 104.368 -69.331  1.00 60.90      A16S
ATOM  14705  O5* U   A 705     209.479 105.049 -66.950  1.00 53.86      A16S
ATOM  14706  C5* U   A 705     209.148 104.966 -65.555  1.00 53.86      A16S
ATOM  14707  C4* U   A 705     209.874 106.027 -64.763  1.00 53.86      A16S
ATOM  14708  O4* U   A 705     211.310 105.844 -64.874  1.00 53.86      A16S
ATOM  14709  C1* U   A 705     211.962 107.105 -64.811  1.00 53.86      A16S
ATOM  14710  N1   U   A 705     212.673 107.345 -66.080  1.00 60.90      A16S
ATOM  14711  C6   U   A 705     212.501 106.521 -67.167  1.00 60.90      A16S
ATOM  14712  C2   U   A 705     213.504 108.452 -66.159  1.00 60.90      A16S
ATOM  14713  O2   U   A 705     213.710 109.191 -65.226  1.00 60.90      A16S
ATOM  14714  N3   U   A 705     214.083 108.660 -67.379  1.00 60.90      A16S
ATOM  14715  C4   U   A 705     213.930 107.892 -68.509  1.00 60.90      A16S
ATOM  14716  O4   U   A 705     214.457 108.256 -69.563  1.00 60.90      A16S
ATOM  14717  C5   U   A 705     213.081 106.751 -68.346  1.00 60.90      A16S
ATOM  14718  C2* U   A 705     210.876 108.160 -64.587  1.00 53.86      A16S
ATOM  14719  O2* U   A 705     210.793 108.425 -63.198  1.00 53.86      A16S
ATOM  14720  C3* U   A 705     209.644 107.468 -65.171  1.00 53.86      A16S
ATOM  14721  O3* U   A 705     208.422 107.974 -64.646  1.00 53.86      A16S
ATOM  14722  P    A   A 706     207.314 108.594 -65.641  1.00 37.73      A16S
ATOM  14723  O1P A   A 706     206.144 108.976 -64.814  1.00 57.83      A16S
ATOM  14724  O2P A   A 706     207.126 107.646 -66.771  1.00 57.83      A16S
ATOM  14725  O5* A   A 706     207.963 109.938 -66.186  1.00 37.73      A16S
ATOM  14726  C5* A   A 706     208.308 111.000 -65.300  1.00 37.73      A16S
ATOM  14727  C4* A   A 706     209.191 111.989 -66.012  1.00 37.73      A16S
ATOM  14728  O4* A   A 706     210.456 111.354 -66.341  1.00 37.73      A16S
ATOM  14729  C1* A   A 706     210.939 111.852 -67.584  1.00 37.73      A16S
ATOM  14730  N9   A   A 706     211.024 110.735 -68.519  1.00 57.83      A16S
ATOM  14731  C4   A   A 706     211.777 110.687 -69.662  1.00 57.83      A16S
ATOM  14732  N3   A   A 706     212.608 111.633 -70.129  1.00 57.83      A16S
ATOM  14733  C2   A   A 706     213.141 111.250 -71.281  1.00 57.83      A16S
ATOM  14734  N1   A   A 706     212.953 110.110 -71.966  1.00 57.83      A16S
ATOM  14735  C6   A   A 706     212.115 109.179 -71.457  1.00 57.83      A16S
ATOM  14736  N6   A   A 706     211.922 108.036 -72.123  1.00 57.83      A16S
ATOM  14737  C5   A   A 706     211.489 109.467 -70.247  1.00 57.83      A16S
ATOM  14738  N7   A   A 706     210.588 108.748 -69.478  1.00 57.83      A16S
ATOM  14739  C8   A   A 706     210.351 109.538 -68.463  1.00 57.83      A16S
ATOM  14740  C2* A   A 706     209.937 112.891 -68.086  1.00 37.73      A16S
ATOM  14741  O2* A   A 706     210.327 114.204 -67.748  1.00 37.73      A16S
ATOM  14742  C3* A   A 706     208.676 112.464 -67.358  1.00 37.73      A16S
ATOM  14743  O3* A   A 706     207.739 113.503 -67.279  1.00 37.73      A16S
ATOM  14744  P    C   A 707     206.454 113.436 -68.219  1.00 59.65      A16S
ATOM  14745  O1P C   A 707     205.623 114.619 -67.906  1.00 60.85      A16S
ATOM  14746  O2P C   A 707     205.880 112.062 -68.100  1.00 60.85      A16S
ATOM  14747  O5* C   A 707     207.045 113.590 -69.689  1.00 59.65      A16S
ATOM  14748  C5* C   A 707     207.686 114.801 -70.098  1.00 59.65      A16S
ATOM  14749  C4* C   A 707     208.014 114.747 -71.567  1.00 59.65      A16S
ATOM  14750  O4* C   A 707     209.089 113.805 -71.810  1.00 59.65      A16S
ATOM  14751  C1* C   A 707     208.986 113.301 -73.134  1.00 59.65      A16S
ATOM  14752  N1   C   A 707     208.943 111.827 -73.111  1.00 60.85      A16S
ATOM  14753  C6   C   A 707     208.865 111.133 -71.941  1.00 60.85      A16S
ATOM  14754  C2   C   A 707     208.977 111.146 -74.329  1.00 60.85      A16S
ATOM  14755  O2   C   A 707     209.061 111.798 -75.377  1.00 60.85      A16S
ATOM  14756  N3   C   A 707     208.921 109.803 -74.339  1.00 60.85      A16S
ATOM  14757  C4   C   A 707     208.839 109.135 -73.195  1.00 60.85      A16S
ATOM  14758  N4   C   A 707     208.781 107.807 -73.253  1.00 60.85      A16S
ATOM  14759  C5   C   A 707     208.811 109.798 -71.937  1.00 60.85      A16S
ATOM  14760  C2* C   A 707     207.721 113.889 -73.751  1.00 59.65      A16S
ATOM  14761  O2* C   A 707     208.077 115.005 -74.541  1.00 59.65      A16S
ATOM  14762  C3* C   A 707     206.927 114.275 -72.513  1.00 59.65      A16S
ATOM  14763  O3* C   A 707     205.987 115.271 -72.823  1.00 59.65      A16S
ATOM  14764  P    C   A 708     204.535 114.838 -73.342  1.00 58.70      A16S
ATOM  14765  O1P C   A 708     203.700 116.045 -73.186  1.00 38.03      A16S
ATOM  14766  O2P C   A 708     204.131 113.558 -72.700  1.00 38.03      A16S
ATOM  14767  O5* C   A 708     204.737 114.537 -74.887  1.00 58.70      A16S
ATOM  14768  C5* C   A 708     205.136 115.572 -75.786  1.00 58.70      A16S
ATOM  14769  C4* C   A 708     205.315 115.012 -77.173  1.00 58.70      A16S
ATOM  14770  O4* C   A 708     206.444 114.099 -77.204  1.00 58.70      A16S
ATOM  14771  C1* C   A 708     206.185 113.051 -78.122  1.00 58.70      A16S
ATOM  14772  N1   C   A 708     206.191 111.778 -77.401  1.00 38.03      A16S
ATOM  14773  C6   C   A 708     205.890 111.724 -76.074  1.00 38.03      A16S
ATOM  14774  C2   C   A 708     206.505 110.601 -78.105  1.00 38.03      A16S
ATOM  14775  O2   C   A 708     206.798 110.676 -79.316  1.00 38.03      A16S
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ATOM  14776  N3  C   A 708     206.489 109.417 -77.451  1.00 38.03      A16S
ATOM  14777  C4  C   A 708     206.193 109.381 -76.154  1.00 38.03      A16S
ATOM  14778  N4  C   A 708     206.198 108.198 -75.545  1.00 38.03      A16S
ATOM  14779  C5  C   A 708     205.882 110.559 -75.418  1.00 38.03      A16S
ATOM  14780  C2* C   A 708     204.813 113.299 -78.734  1.00 58.70      A16S
ATOM  14781  O2* C   A 708     204.951 113.975 -79.968  1.00 58.70      A16S
ATOM  14782  C3* C   A 708     204.165 114.162 -77.668  1.00 58.70      A16S
ATOM  14783  O3* C   A 708     203.086 114.906 -78.172  1.00 58.70      A16S
ATOM  14784  P   G   A 709     201.623 114.272 -78.092  1.00 64.98      A16S
ATOM  14785  O1P G   A 709     200.692 115.364 -78.436  1.00 51.07      A16S
ATOM  14786  O2P G   A 709     201.501 113.589 -76.788  1.00 51.07      A16S
ATOM  14787  O5* G   A 709     201.621 113.126 -79.203  1.00 64.98      A16S
ATOM  14788  C5* G   A 709     201.862 113.438 -80.584  1.00 64.98      A16S
ATOM  14789  C4* G   A 709     201.975 112.176 -81.410  1.00 64.98      A16S
ATOM  14790  O4* G   A 709     203.157 111.416 -81.043  1.00 64.98      A16S
ATOM  14791  C1* G   A 709     202.942 110.043 -81.329  1.00 64.98      A16S
ATOM  14792  N9  G   A 709     203.121 109.252 -80.117  1.00 51.07      A16S
ATOM  14793  C4  G   A 709     203.145 107.877 -80.055  1.00 51.07      A16S
ATOM  14794  N3  G   A 709     203.042 107.039 -81.104  1.00 51.07      A16S
ATOM  14795  C2  G   A 709     203.080 105.774 -80.730  1.00 51.07      A16S
ATOM  14796  N2  G   A 709     203.014 104.804 -81.653  1.00 51.07      A16S
ATOM  14797  N1  G   A 709     203.191 105.364 -79.427  1.00 51.07      A16S
ATOM  14798  C6  G   A 709     203.291 106.208 -78.331  1.00 51.07      A16S
ATOM  14799  O6  G   A 709     203.374 105.731 -77.195  1.00 51.07      A16S
ATOM  14800  C5  G   A 709     203.273 107.571 -78.721  1.00 51.07      A16S
ATOM  14801  N7  G   A 709     203.356 108.728 -77.957  1.00 51.07      A16S
ATOM  14802  C8  G   A 709     203.266 109.699 -78.826  1.00 51.07      A16S
ATOM  14803  C2* G   A 709     201.511 109.895 -81.841  1.00 64.98      A16S
ATOM  14804  O2* G   A 709     201.530 109.840 -83.254  1.00 64.98      A16S
ATOM  14805  C3* G   A 709     200.853 111.160 -81.304  1.00 64.98      A16S
ATOM  14806  O3* G   A 709     199.722 111.510 -82.084  1.00 64.98      A16S
ATOM  14807  P   G   A 710     198.278 110.919 -81.693  1.00 74.48      A16S
ATOM  14808  O1P G   A 710     197.334 111.515 -82.677  1.00 50.34      A16S
ATOM  14809  O2P G   A 710     198.054 111.135 -80.241  1.00 50.34      A16S
ATOM  14810  O5* G   A 710     198.401 109.350 -81.961  1.00 74.48      A16S
ATOM  14811  C5* G   A 710     198.428 108.850 -83.308  1.00 74.48      A16S
ATOM  14812  C4* G   A 710     198.470 107.337 -83.334  1.00 74.48      A16S
ATOM  14813  O4* G   A 710     199.712 106.855 -82.762  1.00 74.48      A16S
ATOM  14814  C1* G   A 710     199.498 105.595 -82.148  1.00 74.48      A16S
ATOM  14815  N9  G   A 710     199.781 105.734 -80.727  1.00 50.34      A16S
ATOM  14816  C4  G   A 710     199.946 104.719 -79.821  1.00 50.34      A16S
ATOM  14817  N3  G   A 710     199.901 103.404 -80.091  1.00 50.34      A16S
ATOM  14818  C2  G   A 710     200.057 102.674 -79.002  1.00 50.34      A16S
ATOM  14819  N2  G   A 710     200.020 101.352 -79.085  1.00 50.34      A16S
ATOM  14820  N1  G   A 710     200.254 103.191 -77.752  1.00 50.34      A16S
ATOM  14821  C6  G   A 710     200.310 104.546 -77.454  1.00 50.34      A16S
ATOM  14822  O6  G   A 710     200.491 104.918 -76.286  1.00 50.34      A16S
ATOM  14823  C5  G   A 710     200.135 105.339 -78.610  1.00 50.34      A16S
ATOM  14824  N7  G   A 710     200.108 106.715 -78.752  1.00 50.34      A16S
ATOM  14825  C8  G   A 710     199.903 106.904 -80.025  1.00 50.34      A16S
ATOM  14826  C2* G   A 710     198.033 105.220 -82.367  1.00 74.48      A16S
ATOM  14827  O2* G   A 710     197.929 104.395 -83.505  1.00 74.48      A16S
ATOM  14828  C3* G   A 710     197.393 106.585 -82.573  1.00 74.48      A16S
ATOM  14829  O3* G   A 710     196.168 106.499 -83.285  1.00 74.48      A16S
ATOM  14830  P   G   A 711     194.788 106.446 -82.461  1.00 62.94      A16S
ATOM  14831  O1P G   A 711     193.666 106.656 -83.417  1.00 48.46      A16S
ATOM  14832  O2P G   A 711     194.924 107.348 -81.289  1.00 48.46      A16S
ATOM  14833  O5* G   A 711     194.746 104.952 -81.916  1.00 62.94      A16S
ATOM  14834  C5* G   A 711     194.913 103.870 -82.820  1.00 62.94      A16S
ATOM  14835  C4* G   A 711     195.294 102.614 -82.088  1.00 62.94      A16S
ATOM  14836  O4* G   A 711     196.523 102.810 -81.347  1.00 62.94      A16S
ATOM  14837  C1* G   A 711     196.566 101.896 -80.265  1.00 62.94      A16S
ATOM  14838  N9  G   A 711     196.788 102.626 -79.025  1.00 48.46      A16S
ATOM  14839  C4  G   A 711     197.003 102.061 -77.790  1.00 48.46      A16S
ATOM  14840  N3  G   A 711     197.041 100.739 -77.519  1.00 48.46      A16S
ATOM  14841  C2  G   A 711     197.276 100.506 -76.240  1.00 48.46      A16S
ATOM  14842  N2  G   A 711     197.353  99.245 -75.797  1.00 48.46      A16S
ATOM  14843  N1  G   A 711     197.456 101.494 -75.305  1.00 48.46      A16S
ATOM  14844  C6  G   A 711     197.424 102.861 -75.569  1.00 48.46      A16S
ATOM  14845  O6  G   A 711     197.614 103.670 -74.661  1.00 48.46      A16S
ATOM  14846  C5  G   A 711     197.169 103.121 -76.929  1.00 48.46      A16S
ATOM  14847  N7  G   A 711     197.048 104.329 -77.604  1.00 48.46      A16S
ATOM  14848  C8  G   A 711     196.823 103.986 -78.843  1.00 48.46      A16S
ATOM  14849  C2* G   A 711     195.234 101.160 -80.230  1.00 62.94      A16S
ATOM  14850  O2* G   A 711     195.400  99.901 -80.845  1.00 62.94      A16S
ATOM  14851  C3* G   A 711     194.345 102.101 -81.029  1.00 62.94      A16S
ATOM  14852  O3* G   A 711     193.226 101.433 -81.565  1.00 62.94      A16S
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ATOM  14853  P    A   A 712     191.839 101.479 -80.762  1.00 57.35      A16S
ATOM  14854  O1P  A   A 712     190.779 101.016 -81.708  1.00 40.87      A16S
ATOM  14855  O2P  A   A 712     191.718 102.819 -80.099  1.00 40.87      A16S
ATOM  14856  O5*  A   A 712     192.041 100.405 -79.608  1.00 57.35      A16S
ATOM  14857  C5*  A   A 712     192.392  99.062 -79.922  1.00 57.35      A16S
ATOM  14858  C4*  A   A 712     192.641  98.290 -78.655  1.00 57.35      A16S
ATOM  14859  O4*  A   A 712     193.843  98.760 -78.000  1.00 57.35      A16S
ATOM  14860  C1*  A   A 712     193.686  98.686 -76.595  1.00 57.35      A16S
ATOM  14861  N9   A   A 712     193.839 100.036 -76.052  1.00 40.87      A16S
ATOM  14862  C4   A   A 712     194.185 100.360 -74.764  1.00 40.87      A16S
ATOM  14863  N3   A   A 712     194.444  99.516 -73.751  1.00 40.87      A16S
ATOM  14864  C2   A   A 712     194.758 100.196 -72.646  1.00 40.87      A16S
ATOM  14865  N1   A   A 712     194.824 101.523 -72.452  1.00 40.87      A16S
ATOM  14866  C6   A   A 712     194.538 102.340 -73.491  1.00 40.87      A16S
ATOM  14867  N6   A   A 712     194.562 103.661 -73.298  1.00 40.87      A16S
ATOM  14868  C5   A   A 712     194.215 101.746 -74.720  1.00 40.87      A16S
ATOM  14869  N7   A   A 712     193.899 102.286 -75.957  1.00 40.87      A16S
ATOM  14870  C8   A   A 712     193.679 101.235 -76.710  1.00 40.87      A16S
ATOM  14871  C2*  A   A 712     192.319  98.069 -76.318  1.00 57.35      A16S
ATOM  14872  O2*  A   A 712     192.492  96.675 -76.143  1.00 57.35      A16S
ATOM  14873  C3*  A   A 712     191.565  98.418 -77.599  1.00 57.35      A16S
ATOM  14874  O3*  A   A 712     190.504  97.535 -77.897  1.00 57.35      A16S
ATOM  14875  P    G   A 713     189.015  97.896 -77.434  1.00 47.26      A16S
ATOM  14876  O1P  G   A 713     188.239  96.714 -77.867  1.00 36.55      A16S
ATOM  14877  O2P  G   A 713     188.586  99.257 -77.858  1.00 36.55      A16S
ATOM  14878  O5*  G   A 713     189.108  97.841 -75.850  1.00 47.26      A16S
ATOM  14879  C5*  G   A 713     189.391  96.597 -75.207  1.00 47.26      A16S
ATOM  14880  C4*  G   A 713     189.680  96.807 -73.749  1.00 47.26      A16S
ATOM  14881  O4*  G   A 713     190.849  97.648 -73.579  1.00 47.26      A16S
ATOM  14882  C1*  G   A 713     190.745  98.359 -72.364  1.00 47.26      A16S
ATOM  14883  N9   G   A 713     190.930  99.786 -72.622  1.00 36.55      A16S
ATOM  14884  C4   G   A 713     191.479 100.705 -71.753  1.00 36.55      A16S
ATOM  14885  N3   G   A 713     191.953 100.444 -70.519  1.00 36.55      A16S
ATOM  14886  C2   G   A 713     192.400 101.535 -69.919  1.00 36.55      A16S
ATOM  14887  N2   G   A 713     192.911 101.458 -68.674  1.00 36.55      A16S
ATOM  14888  N1   G   A 713     192.381 102.777 -70.485  1.00 36.55      A16S
ATOM  14889  C6   G   A 713     191.896 103.069 -71.751  1.00 36.55      A16S
ATOM  14890  O6   G   A 713     191.922 104.230 -72.162  1.00 36.55      A16S
ATOM  14891  C5   G   A 713     191.417 101.913 -72.408  1.00 36.55      A16S
ATOM  14892  N7   G   A 713     190.857 101.763 -73.668  1.00 36.55      A16S
ATOM  14893  C8   G   A 713     190.587 100.487 -73.754  1.00 36.55      A16S
ATOM  14894  C2*  G   A 713     189.399  97.995 -71.736  1.00 47.26      A16S
ATOM  14895  O2*  G   A 713     189.639  96.945 -70.831  1.00 47.26      A16S
ATOM  14896  C3*  G   A 713     188.607  97.493 -72.938  1.00 47.26      A16S
ATOM  14897  O3*  G   A 713     187.593  96.560 -72.585  1.00 47.26      A16S
ATOM  14898  P    G   A 714     186.126  97.089 -72.178  1.00 50.25      A16S
ATOM  14899  O1P  G   A 714     185.213  95.940 -72.321  1.00 31.15      A16S
ATOM  14900  O2P  G   A 714     185.798  98.369 -72.857  1.00 31.15      A16S
ATOM  14901  O5*  G   A 714     186.263  97.413 -70.629  1.00 50.25      A16S
ATOM  14902  C5*  G   A 714     186.425  96.362 -69.668  1.00 50.25      A16S
ATOM  14903  C4*  G   A 714     186.841  96.947 -68.352  1.00 50.25      A16S
ATOM  14904  O4*  G   A 714     188.087  97.655 -68.539  1.00 50.25      A16S
ATOM  14905  C1*  G   A 714     188.110  98.812 -67.734  1.00 50.25      A16S
ATOM  14906  N9   G   A 714     188.242  99.959 -68.621  1.00 31.15      A16S
ATOM  14907  C4   G   A 714     188.937 101.126 -68.377  1.00 31.15      A16S
ATOM  14908  N3   G   A 714     189.652 101.414 -67.268  1.00 31.15      A16S
ATOM  14909  C2   G   A 714     190.198 102.616 -67.337  1.00 31.15      A16S
ATOM  14910  N2   G   A 714     190.949 103.076 -66.331  1.00 31.15      A16S
ATOM  14911  N1   G   A 714     190.048 103.461 -68.402  1.00 31.15      A16S
ATOM  14912  C6   G   A 714     189.312 103.184 -69.546  1.00 31.15      A16S
ATOM  14913  O6   G   A 714     189.226 104.026 -70.443  1.00 31.15      A16S
ATOM  14914  C5   G   A 714     188.735 101.908 -69.495  1.00 31.15      A16S
ATOM  14915  N7   G   A 714     187.950 101.246 -70.427  1.00 31.15      A16S
ATOM  14916  C8   G   A 714     187.683 100.095 -69.869  1.00 31.15      A16S
ATOM  14917  C2*  G   A 714     186.817  98.827 -66.919  1.00 50.25      A16S
ATOM  14918  O2*  G   A 714     187.038  98.179 -65.683  1.00 50.25      A16S
ATOM  14919  C3*  G   A 714     185.899  97.991 -67.788  1.00 50.25      A16S
ATOM  14920  O3*  G   A 714     184.893  97.370 -67.017  1.00 50.25      A16S
ATOM  14921  P    A   A 715     183.483  98.104 -66.818  1.00 45.23      A16S
ATOM  14922  O1P  A   A 715     182.577  97.056 -66.302  1.00 37.14      A16S
ATOM  14923  O2P  A   A 715     183.125  98.839 -68.043  1.00 37.14      A16S
ATOM  14924  O5*  A   A 715     183.764  99.201 -65.701  1.00 45.23      A16S
ATOM  14925  C5*  A   A 715     184.258  98.836 -64.409  1.00 45.23      A16S
ATOM  14926  C4*  A   A 715     184.872 100.036 -63.735  1.00 45.23      A16S
ATOM  14927  O4*  A   A 715     186.008 100.500 -64.501  1.00 45.23      A16S
ATOM  14928  C1*  A   A 715     186.096 101.913 -64.423  1.00 45.23      A16S
ATOM  14929  N9   A   A 715     186.028 102.453 -65.780  1.00 37.14      A16S
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ATOM  14930  C4   A   A 715     186.542 103.652 -66.194  1.00 37.14      A16S
ATOM  14931  N3   A   A 715     187.184 104.559 -65.446  1.00 37.14      A16S
ATOM  14932  C2   A   A 715     187.532 105.611 -66.187  1.00 37.14      A16S
ATOM  14933  N1   A   A 715     187.326 105.833 -67.489  1.00 37.14      A16S
ATOM  14934  C6   A   A 715     186.683 104.890 -68.210  1.00 37.14      A16S
ATOM  14935  N6   A   A 715     186.489 105.101 -69.514  1.00 37.14      A16S
ATOM  14936  C5   A   A 715     186.259 103.740 -67.543  1.00 37.14      A16S
ATOM  14937  N7   A   A 715     185.570 102.621 -67.974  1.00 37.14      A16S
ATOM  14938  C8   A   A 715     185.458 101.888 -66.892  1.00 37.14      A16S
ATOM  14939  C2*  A   A 715     184.957 102.404 -63.530  1.00 45.23      A16S
ATOM  14940  O2*  A   A 715     185.398 102.568 -62.199  1.00 45.23      A16S
ATOM  14941  C3*  A   A 715     183.971 101.253 -63.632  1.00 45.23      A16S
ATOM  14942  O3*  A   A 715     183.155 101.198 -62.482  1.00 45.23      A16S
ATOM  14943  P    A   A 716     181.852 102.117 -62.406  1.00 38.50      A16S
ATOM  14944  O1P  A   A 716     181.202 101.808 -61.107  1.00 41.16      A16S
ATOM  14945  O2P  A   A 716     181.098 101.932 -63.668  1.00 41.16      A16S
ATOM  14946  O5*  A   A 716     182.422 103.605 -62.360  1.00 38.50      A16S
ATOM  14947  C5*  A   A 716     183.053 104.090 -61.180  1.00 38.50      A16S
ATOM  14948  C4*  A   A 716     183.539 105.499 -61.372  1.00 38.50      A16S
ATOM  14949  O4*  A   A 716     184.572 105.542 -62.390  1.00 38.50      A16S
ATOM  14950  C1*  A   A 716     184.589 106.823 -62.994  1.00 38.50      A16S
ATOM  14951  N9   A   A 716     184.393 106.684 -64.434  1.00 41.16      A16S
ATOM  14952  C4   A   A 716     184.767 107.602 -65.388  1.00 41.16      A16S
ATOM  14953  N3   A   A 716     185.391 108.776 -65.196  1.00 41.16      A16S
ATOM  14954  C2   A   A 716     185.574 109.407 -66.349  1.00 41.16      A16S
ATOM  14955  N1   A   A 716     185.232 109.029 -67.577  1.00 41.16      A16S
ATOM  14956  C6   A   A 716     184.607 107.850 -67.737  1.00 41.16      A16S
ATOM  14957  N6   A   A 716     184.265 107.480 -68.965  1.00 41.16      A16S
ATOM  14958  C5   A   A 716     184.353 107.082 -66.593  1.00 41.16      A16S
ATOM  14959  N7   A   A 716     183.732 105.857 -66.408  1.00 41.16      A16S
ATOM  14960  C8   A   A 716     183.791 105.665 -65.115  1.00 41.16      A16S
ATOM  14961  C2*  A   A 716     183.464 107.642 -62.366  1.00 38.50      A16S
ATOM  14962  O2*  A   A 716     184.033 108.425 -61.341  1.00 38.50      A16S
ATOM  14963  C3*  A   A 716     182.541 106.552 -61.819  1.00 38.50      A16S
ATOM  14964  O3*  A   A 716     181.731 107.016 -60.737  1.00 38.50      A16S
ATOM  14965  P    C   A 717     180.606 108.151 -60.998  1.00 48.33      A16S
ATOM  14966  O1P  C   A 717     179.926 108.355 -59.695  1.00 41.59      A16S
ATOM  14967  O2P  C   A 717     179.790 107.874 -62.212  1.00 41.59      A16S
ATOM  14968  O5*  C   A 717     181.464 109.448 -61.307  1.00 48.33      A16S
ATOM  14969  C5*  C   A 717     180.856 110.633 -61.806  1.00 48.33      A16S
ATOM  14970  C4*  C   A 717     181.896 111.478 -62.478  1.00 48.33      A16S
ATOM  14971  O4*  C   A 717     182.577 110.662 -63.457  1.00 48.33      A16S
ATOM  14972  C1*  C   A 717     182.472 111.256 -64.732  1.00 48.33      A16S
ATOM  14973  N1   C   A 717     182.108 110.211 -65.696  1.00 41.59      A16S
ATOM  14974  C6   C   A 717     181.627 109.004 -65.270  1.00 41.59      A16S
ATOM  14975  C2   C   A 717     182.232 110.481 -67.056  1.00 41.59      A16S
ATOM  14976  O2   C   A 717     182.697 111.574 -67.412  1.00 41.59      A16S
ATOM  14977  N3   C   A 717     181.838 109.550 -67.945  1.00 41.59      A16S
ATOM  14978  C4   C   A 717     181.341 108.386 -67.516  1.00 41.59      A16S
ATOM  14979  N4   C   A 717     180.930 107.504 -68.425  1.00 41.59      A16S
ATOM  14980  C5   C   A 717     181.234 108.076 -66.137  1.00 41.59      A16S
ATOM  14981  C2*  C   A 717     181.355 112.295 -64.659  1.00 48.33      A16S
ATOM  14982  O2*  C   A 717     181.684 113.358 -65.527  1.00 48.33      A16S
ATOM  14983  C3*  C   A 717     181.386 112.714 -63.199  1.00 48.33      A16S
ATOM  14984  O3*  C   A 717     182.344 113.723 -63.050  1.00 48.33      A16S
ATOM  14985  P    G   A 718     182.110 114.889 -61.989  1.00 38.56      A16S
ATOM  14986  O1P  G   A 718     181.508 114.329 -60.763  1.00 53.22      A16S
ATOM  14987  O2P  G   A 718     181.456 116.016 -62.675  1.00 53.22      A16S
ATOM  14988  O5*  G   A 718     183.591 115.283 -61.612  1.00 38.56      A16S
ATOM  14989  C5*  G   A 718     183.866 116.551 -61.105  1.00 38.56      A16S
ATOM  14990  C4*  G   A 718     185.289 116.939 -61.390  1.00 38.56      A16S
ATOM  14991  O4*  G   A 718     185.783 116.370 -62.626  1.00 38.56      A16S
ATOM  14992  C1*  G   A 718     186.460 117.364 -63.366  1.00 38.56      A16S
ATOM  14993  N9   G   A 718     185.743 117.514 -64.629  1.00 53.22      A16S
ATOM  14994  C4   G   A 718     186.001 118.402 -65.653  1.00 53.22      A16S
ATOM  14995  N3   G   A 718     186.959 119.352 -65.666  1.00 53.22      A16S
ATOM  14996  C2   G   A 718     186.976 120.017 -66.808  1.00 53.22      A16S
ATOM  14997  N2   G   A 718     187.860 120.994 -66.997  1.00 53.22      A16S
ATOM  14998  N1   G   A 718     186.128 119.772 -67.851  1.00 53.22      A16S
ATOM  14999  C6   G   A 718     185.133 118.804 -67.860  1.00 53.22      A16S
ATOM  15000  O6   G   A 718     184.422 118.660 -68.858  1.00 53.22      A16S
ATOM  15001  C5   G   A 718     185.096 118.086 -66.643  1.00 53.22      A16S
ATOM  15002  N7   G   A 718     184.265 117.053 -66.240  1.00 53.22      A16S
ATOM  15003  C8   G   A 718     184.680 116.751 -65.043  1.00 53.22      A16S
ATOM  15004  C2*  G   A 718     186.544 118.622 -62.492  1.00 38.56      A16S
ATOM  15005  O2*  G   A 718     187.753 118.616 -61.768  1.00 38.56      A16S
ATOM  15006  C3*  G   A 718     185.351 118.432 -61.571  1.00 38.56      A16S
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ATOM  15007  O3* G   A 718     185.446 118.994 -60.279  1.00 38.56      A16S
ATOM  15008  P   C   A 719     184.123 119.595 -59.591  1.00 50.61      A16S
ATOM  15009  O1P C   A 719     184.411 119.719 -58.142  1.00 40.16      A16S
ATOM  15010  O2P C   A 719     182.894 118.872 -60.037  1.00 40.16      A16S
ATOM  15011  O5* C   A 719     184.062 121.051 -60.220  1.00 50.61      A16S
ATOM  15012  C5* C   A 719     185.253 121.821 -60.377  1.00 50.61      A16S
ATOM  15013  C4* C   A 719     185.112 122.733 -61.552  1.00 50.61      A16S
ATOM  15014  O4* C   A 719     185.200 121.986 -62.778  1.00 50.61      A16S
ATOM  15015  C1* C   A 719     184.494 122.673 -63.786  1.00 50.61      A16S
ATOM  15016  N1  C   A 719     183.727 121.703 -64.575  1.00 40.16      A16S
ATOM  15017  C6  C   A 719     183.259 120.554 -64.006  1.00 40.16      A16S
ATOM  15018  C2  C   A 719     183.498 121.963 -65.933  1.00 40.16      A16S
ATOM  15019  O2  C   A 719     183.913 123.019 -66.421  1.00 40.16      A16S
ATOM  15020  N3  C   A 719     182.835 121.052 -66.677  1.00 40.16      A16S
ATOM  15021  C4  C   A 719     182.412 119.919 -66.117  1.00 40.16      A16S
ATOM  15022  N4  C   A 719     181.807 119.023 -66.892  1.00 40.16      A16S
ATOM  15023  C5  C   A 719     182.605 119.643 -64.733  1.00 40.16      A16S
ATOM  15024  C2* C   A 719     183.692 123.796 -63.129  1.00 50.61      A16S
ATOM  15025  O2* C   A 719     184.352 125.007 -63.423  1.00 50.61      A16S
ATOM  15026  C3* C   A 719     183.776 123.430 -61.649  1.00 50.61      A16S
ATOM  15027  O3* C   A 719     183.796 124.563 -60.800  1.00 50.61      A16S
ATOM  15028  P   C   A 720     182.660 124.741 -59.678  1.00 48.80      A16S
ATOM  15029  O1P C   A 720     182.923 126.070 -59.064  1.00 47.37      A16S
ATOM  15030  O2P C   A 720     182.616 123.534 -58.811  1.00 47.37      A16S
ATOM  15031  O5* C   A 720     181.321 124.815 -60.535  1.00 48.80      A16S
ATOM  15032  C5* C   A 720     181.114 125.897 -61.471  1.00 48.80      A16S
ATOM  15033  C4* C   A 720     179.903 125.622 -62.331  1.00 48.80      A16S
ATOM  15034  O4* C   A 720     180.185 124.530 -63.235  1.00 48.80      A16S
ATOM  15035  C1* C   A 720     179.047 123.700 -63.354  1.00 48.80      A16S
ATOM  15036  N1  C   A 720     179.425 122.360 -62.857  1.00 47.37      A16S
ATOM  15037  C6  C   A 720     180.333 122.228 -61.838  1.00 47.37      A16S
ATOM  15038  C2  C   A 720     178.856 121.222 -63.445  1.00 47.37      A16S
ATOM  15039  O2  C   A 720     178.009 121.361 -64.337  1.00 47.37      A16S
ATOM  15040  N3  C   A 720     179.237 120.002 -63.019  1.00 47.37      A16S
ATOM  15041  C4  C   A 720     180.126 119.889 -62.032  1.00 47.37      A16S
ATOM  15042  N4  C   A 720     180.465 118.667 -61.639  1.00 47.37      A16S
ATOM  15043  C5  C   A 720     180.705 121.025 -61.399  1.00 47.37      A16S
ATOM  15044  C2* C   A 720     177.906 124.367 -62.583  1.00 48.80      A16S
ATOM  15045  O2* C   A 720     177.170 125.170 -63.473  1.00 48.80      A16S
ATOM  15046  C3* C   A 720     178.665 125.200 -61.563  1.00 48.80      A16S
ATOM  15047  O3* C   A 720     177.961 126.358 -61.168  1.00 48.80      A16S
ATOM  15048  P   G   A 721     177.237 126.414 -59.736  1.00 53.25      A16S
ATOM  15049  O1P G   A 721     175.989 125.621 -59.848  1.00 43.35      A16S
ATOM  15050  O2P G   A 721     177.178 127.836 -59.329  1.00 43.35      A16S
ATOM  15051  O5* G   A 721     178.185 125.662 -58.706  1.00 53.25      A16S
ATOM  15052  C5* G   A 721     177.945 125.790 -57.294  1.00 53.25      A16S
ATOM  15053  C4* G   A 721     178.225 124.487 -56.587  1.00 53.25      A16S
ATOM  15054  O4* G   A 721     177.390 123.448 -57.147  1.00 53.25      A16S
ATOM  15055  C1* G   A 721     178.189 122.381 -57.602  1.00 53.25      A16S
ATOM  15056  N9  G   A 721     177.599 121.901 -58.842  1.00 43.35      A16S
ATOM  15057  C4  G   A 721     177.587 120.611 -59.318  1.00 43.35      A16S
ATOM  15058  N3  G   A 721     178.150 119.537 -58.728  1.00 43.35      A16S
ATOM  15059  C2  G   A 721     177.972 118.432 -59.439  1.00 43.35      A16S
ATOM  15060  N2  G   A 721     178.485 117.272 -59.012  1.00 43.35      A16S
ATOM  15061  N1  G   A 721     177.281 118.387 -60.624  1.00 43.35      A16S
ATOM  15062  C6  G   A 721     176.688 119.486 -61.242  1.00 43.35      A16S
ATOM  15063  O6  G   A 721     176.070 119.344 -62.308  1.00 43.35      A16S
ATOM  15064  C5  G   A 721     176.889 120.670 -60.501  1.00 43.35      A16S
ATOM  15065  N7  G   A 721     176.483 121.966 -60.768  1.00 43.35      A16S
ATOM  15066  C8  G   A 721     176.928 122.660 -59.761  1.00 43.35      A16S
ATOM  15067  C2* G   A 721     179.598 122.944 -57.778  1.00 53.25      A16S
ATOM  15068  O2* G   A 721     180.580 121.937 -57.606  1.00 53.25      A16S
ATOM  15069  C3* G   A 721     179.655 123.980 -56.666  1.00 53.25      A16S
ATOM  15070  O3* G   A 721     179.960 123.321 -55.452  1.00 53.25      A16S
ATOM  15071  P   A   A 722     180.752 124.101 -54.305  1.00 85.87      A16S
ATOM  15072  O1P A   A 722     181.461 125.268 -54.897  1.00 46.23      A16S
ATOM  15073  O2P A   A 722     181.507 123.081 -53.561  1.00 46.23      A16S
ATOM  15074  O5* A   A 722     179.604 124.666 -53.364  1.00 85.87      A16S
ATOM  15075  C5* A   A 722     178.662 123.785 -52.742  1.00 85.87      A16S
ATOM  15076  C4* A   A 722     177.345 124.486 -52.572  1.00 85.87      A16S
ATOM  15077  O4* A   A 722     176.830 124.873 -53.865  1.00 85.87      A16S
ATOM  15078  C1* A   A 722     175.419 124.810 -53.852  1.00 85.87      A16S
ATOM  15079  N9  A   A 722     174.975 124.000 -54.985  1.00 46.23      A16S
ATOM  15080  C4  A   A 722     175.215 122.669 -55.183  1.00 46.23      A16S
ATOM  15081  N3  A   A 722     175.912 121.849 -54.387  1.00 46.23      A16S
ATOM  15082  C2  A   A 722     175.924 120.625 -54.890  1.00 46.23      A16S
ATOM  15083  N1  A   A 722     175.361 120.164 -56.016  1.00 46.23      A16S
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ATOM  15084  C6  A   A 722     174.674 121.021 -56.794  1.00 46.23      A16S
ATOM  15085  N6  A   A 722     174.118 120.566 -57.920  1.00 46.23      A16S
ATOM  15086  C5  A   A 722     174.586 122.345 -56.370  1.00 46.23      A16S
ATOM  15087  N7  A   A 722     173.970 123.455 -56.921  1.00 46.23      A16S
ATOM  15088  C8  A   A 722     174.231 124.410 -56.065  1.00 46.23      A16S
ATOM  15089  C2* A   A 722     174.972 124.299 -52.481  1.00 85.87      A16S
ATOM  15090  O2* A   A 722     174.523 125.418 -51.737  1.00 85.87      A16S
ATOM  15091  C3* A   A 722     176.251 123.654 -51.937  1.00 85.87      A16S
ATOM  15092  O3* A   A 722     176.327 123.814 -50.523  1.00 85.87      A16S
ATOM  15093  P   U   A 723     177.302 122.884 -49.648  1.00167.69      A16S
ATOM  15094  O1P U   A 723     178.596 123.597 -49.545  1.00155.13      A16S
ATOM  15095  O2P U   A 723     177.266 121.496 -50.178  1.00155.13      A16S
ATOM  15096  O5* U   A 723     176.635 122.917 -48.200  1.00167.69      A16S
ATOM  15097  C5* U   A 723     175.196 122.884 -48.050  1.00167.69      A16S
ATOM  15098  C4* U   A 723     174.671 124.241 -47.625  1.00167.69      A16S
ATOM  15099  O4* U   A 723     175.735 125.227 -47.664  1.00167.69      A16S
ATOM  15100  C1* U   A 723     175.212 126.480 -48.073  1.00167.69      A16S
ATOM  15101  N1  U   A 723     176.014 126.984 -49.206  1.00155.13      A16S
ATOM  15102  C6  U   A 723     177.228 126.407 -49.524  1.00155.13      A16S
ATOM  15103  C2  U   A 723     175.531 128.067 -49.945  1.00155.13      A16S
ATOM  15104  O2  U   A 723     174.466 128.623 -49.710  1.00155.13      A16S
ATOM  15105  N3  U   A 723     176.348 128.476 -50.971  1.00155.13      A16S
ATOM  15106  C4  U   A 723     177.567 127.939 -51.332  1.00155.13      A16S
ATOM  15107  O4  U   A 723     178.180 128.419 -52.289  1.00155.13      A16S
ATOM  15108  C5  U   A 723     177.996 126.837 -50.528  1.00155.13      A16S
ATOM  15109  C2* U   A 723     173.705 126.312 -48.312  1.00167.69      A16S
ATOM  15110  O2* U   A 723     173.002 126.771 -47.174  1.00167.69      A16S
ATOM  15111  C3* U   A 723     173.572 124.805 -48.515  1.00167.69      A16S
ATOM  15112  O3* U   A 723     172.287 124.363 -48.093  1.00167.69      A16S
ATOM  15113  P   G   A 724     171.537 123.181 -48.886  1.00 59.71      A16S
ATOM  15114  O1P G   A 724     170.129 123.225 -48.423  1.00 55.40      A16S
ATOM  15115  O2P G   A 724     172.314 121.921 -48.730  1.00 55.40      A16S
ATOM  15116  O5* G   A 724     171.557 123.610 -50.424  1.00 59.71      A16S
ATOM  15117  C5* G   A 724     170.846 124.767 -50.882  1.00 59.71      A16S
ATOM  15118  C4* G   A 724     170.393 124.585 -52.315  1.00 59.71      A16S
ATOM  15119  O4* G   A 724     171.541 124.326 -53.172  1.00 59.71      A16S
ATOM  15120  C1* G   A 724     171.161 123.493 -54.255  1.00 59.71      A16S
ATOM  15121  N9  G   A 724     171.872 122.224 -54.139  1.00 55.40      A16S
ATOM  15122  C4  G   A 724     171.744 121.138 -54.979  1.00 55.40      A16S
ATOM  15123  N3  G   A 724     171.019 121.094 -56.113  1.00 55.40      A16S
ATOM  15124  C2  G   A 724     171.051 119.899 -56.673  1.00 55.40      A16S
ATOM  15125  N2  G   A 724     170.408 119.685 -57.830  1.00 55.40      A16S
ATOM  15126  N1  G   A 724     171.719 118.828 -56.148  1.00 55.40      A16S
ATOM  15127  C6  G   A 724     172.461 118.848 -54.980  1.00 55.40      A16S
ATOM  15128  O6  G   A 724     172.997 117.820 -54.583  1.00 55.40      A16S
ATOM  15129  C5  G   A 724     172.465 120.132 -54.385  1.00 55.40      A16S
ATOM  15130  N7  G   A 724     173.093 120.589 -53.234  1.00 55.40      A16S
ATOM  15131  C8  G   A 724     172.728 121.838 -53.138  1.00 55.40      A16S
ATOM  15132  C2* G   A 724     169.663 123.228 -54.111  1.00 59.71      A16S
ATOM  15133  O2* G   A 724     168.951 124.133 -54.922  1.00 59.71      A16S
ATOM  15134  C3* G   A 724     169.445 123.436 -52.614  1.00 59.71      A16S
ATOM  15135  O3* G   A 724     168.079 123.720 -52.299  1.00 59.71      A16S
ATOM  15136  P   G   A 725     167.031 122.500 -52.125  1.00 49.58      A16S
ATOM  15137  O1P G   A 725     165.679 123.064 -51.911  1.00 47.66      A16S
ATOM  15138  O2P G   A 725     167.575 121.530 -51.132  1.00 47.66      A16S
ATOM  15139  O5* G   A 725     167.003 121.807 -53.558  1.00 49.58      A16S
ATOM  15140  C5* G   A 725     166.451 122.486 -54.691  1.00 49.58      A16S
ATOM  15141  C4* G   A 725     166.314 121.531 -55.849  1.00 49.58      A16S
ATOM  15142  O4* G   A 725     167.628 121.014 -56.177  1.00 49.58      A16S
ATOM  15143  C1* G   A 725     167.535 119.644 -56.523  1.00 49.58      A16S
ATOM  15144  N9  G   A 725     168.269 118.880 -55.516  1.00 47.66      A16S
ATOM  15145  C4  G   A 725     168.579 117.539 -55.559  1.00 47.66      A16S
ATOM  15146  N3  G   A 725     168.252 116.676 -56.545  1.00 47.66      A16S
ATOM  15147  C2  G   A 725     168.682 115.452 -56.289  1.00 47.66      A16S
ATOM  15148  N2  G   A 725     168.424 114.462 -57.145  1.00 47.66      A16S
ATOM  15149  N1  G   A 725     169.389 115.111 -55.171  1.00 47.66      A16S
ATOM  15150  C6  G   A 725     169.742 115.984 -54.152  1.00 47.66      A16S
ATOM  15151  O6  G   A 725     170.387 115.574 -53.191  1.00 47.66      A16S
ATOM  15152  C5  G   A 725     169.277 117.290 -54.399  1.00 47.66      A16S
ATOM  15153  N7  G   A 725     169.402 118.443 -53.638  1.00 47.66      A16S
ATOM  15154  C8  G   A 725     168.791 119.358 -54.336  1.00 47.66      A16S
ATOM  15155  C2* G   A 725     166.053 119.284 -56.569  1.00 49.58      A16S
ATOM  15156  O2* G   A 725     165.566 119.493 -57.879  1.00 49.58      A16S
ATOM  15157  C3* G   A 725     165.471 120.290 -55.589  1.00 49.58      A16S
ATOM  15158  O3* G   A 725     164.078 120.502 -55.805  1.00 49.58      A16S
ATOM  15159  P   C   A 726     163.013 119.519 -55.101  1.00 35.12      A16S
ATOM  15160  O1P C   A 726     161.653 119.926 -55.559  1.00 36.72      A16S
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ATOM  15161  O2P C   A 726     163.308 119.458 -53.637  1.00 36.72      A16S
ATOM  15162  O5* C   A 726     163.331 118.105 -55.760  1.00 35.12      A16S
ATOM  15163  C5* C   A 726     162.867 117.821 -57.069  1.00 35.12      A16S
ATOM  15164  C4* C   A 726     163.049 116.368 -57.379  1.00 35.12      A16S
ATOM  15165  O4* C   A 726     164.460 116.055 -57.391  1.00 35.12      A16S
ATOM  15166  C1* C   A 726     164.656 114.713 -56.987  1.00 35.12      A16S
ATOM  15167  N1  C   A 726     165.425 114.701 -55.737  1.00 36.72      A16S
ATOM  15168  C6  C   A 726     165.643 115.847 -55.030  1.00 36.72      A16S
ATOM  15169  C2  C   A 726     165.896 113.478 -55.256  1.00 36.72      A16S
ATOM  15170  O2  C   A 726     165.755 112.470 -55.953  1.00 36.72      A16S
ATOM  15171  N3  C   A 726     166.500 113.428 -54.050  1.00 36.72      A16S
ATOM  15172  C4  C   A 726     166.673 114.544 -53.349  1.00 36.72      A16S
ATOM  15173  N4  C   A 726     167.242 114.445 -52.153  1.00 36.72      A16S
ATOM  15174  C5  C   A 726     166.260 115.813 -53.844  1.00 36.72      A16S
ATOM  15175  C2* C   A 726     163.275 114.123 -56.728  1.00 35.12      A16S
ATOM  15176  O2* C   A 726     162.847 113.530 -57.928  1.00 35.12      A16S
ATOM  15177  C3* C   A 726     162.473 115.369 -56.399  1.00 35.12      A16S
ATOM  15178  O3* C   A 726     161.090 115.171 -56.578  1.00 35.12      A16S
ATOM  15179  P   G   A 727     160.190 114.747 -55.323  1.00 42.47      A16S
ATOM  15180  O1P G   A 727     158.780 114.749 -55.769  1.00 35.44      A16S
ATOM  15181  O2P G   A 727     160.581 115.549 -54.143  1.00 35.44      A16S
ATOM  15182  O5* G   A 727     160.606 113.242 -55.063  1.00 42.47      A16S
ATOM  15183  C5* G   A 727     160.281 112.240 -56.023  1.00 42.47      A16S
ATOM  15184  C4* G   A 727     160.826 110.913 -55.591  1.00 42.47      A16S
ATOM  15185  O4* G   A 727     162.272 110.977 -55.542  1.00 42.47      A16S
ATOM  15186  C1* G   A 727     162.752 110.117 -54.524  1.00 42.47      A16S
ATOM  15187  N9  G   A 727     163.505 110.904 -53.561  1.00 35.44      A16S
ATOM  15188  C4  G   A 727     164.294 110.409 -52.558  1.00 35.44      A16S
ATOM  15189  N3  G   A 727     164.614 109.120 -52.368  1.00 35.44      A16S
ATOM  15190  C2  G   A 727     165.304 108.952 -51.262  1.00 35.44      A16S
ATOM  15191  N2  G   A 727     165.727 107.733 -50.909  1.00 35.44      A16S
ATOM  15192  N1  G   A 727     165.633 109.960 -50.416  1.00 35.44      A16S
ATOM  15193  C6  G   A 727     165.309 111.286 -50.599  1.00 35.44      A16S
ATOM  15194  O6  G   A 727     165.618 112.110 -49.754  1.00 35.44      A16S
ATOM  15195  C5  G   A 727     164.611 111.489 -51.783  1.00 35.44      A16S
ATOM  15196  N7  G   A 727     164.134 112.656 -52.348  1.00 35.44      A16S
ATOM  15197  C8  G   A 727     163.496 112.261 -53.413  1.00 35.44      A16S
ATOM  15198  C2* G   A 727     161.538 109.484 -53.843  1.00 42.47      A16S
ATOM  15199  O2* G   A 727     161.354 108.181 -54.364  1.00 42.47      A16S
ATOM  15200  C3* G   A 727     160.435 110.476 -54.196  1.00 42.47      A16S
ATOM  15201  O3* G   A 727     159.129 109.929 -54.186  1.00 42.47      A16S
ATOM  15202  P   A   A 728     158.077 110.402 -53.055  1.00 39.26      A16S
ATOM  15203  O1P A   A 728     156.799 109.729 -53.415  1.00 31.53      A16S
ATOM  15204  O2P A   A 728     158.098 111.883 -52.877  1.00 31.53      A16S
ATOM  15205  O5* A   A 728     158.597 109.705 -51.721  1.00 39.26      A16S
ATOM  15206  C5* A   A 728     157.989 109.998 -50.464  1.00 39.26      A16S
ATOM  15207  C4* A   A 728     158.309 108.915 -49.477  1.00 39.26      A16S
ATOM  15208  O4* A   A 728     157.692 107.695 -49.919  1.00 39.26      A16S
ATOM  15209  C1* A   A 728     158.564 106.599 -49.709  1.00 39.26      A16S
ATOM  15210  N9  A   A 728     158.894 106.053 -51.026  1.00 31.53      A16S
ATOM  15211  C4  A   A 728     159.288 104.772 -51.306  1.00 31.53      A16S
ATOM  15212  N3  A   A 728     159.510 103.789 -50.433  1.00 31.53      A16S
ATOM  15213  C2  A   A 728     159.857 102.672 -51.060  1.00 31.53      A16S
ATOM  15214  N1  A   A 728     159.993 102.440 -52.368  1.00 31.53      A16S
ATOM  15215  C6  A   A 728     159.766 103.458 -53.225  1.00 31.53      A16S
ATOM  15216  N6  A   A 728     159.898 103.231 -54.537  1.00 31.53      A16S
ATOM  15217  C5  A   A 728     159.399 104.702 -52.679  1.00 31.53      A16S
ATOM  15218  N7  A   A 728     159.119 105.931 -53.260  1.00 31.53      A16S
ATOM  15219  C8  A   A 728     158.835 106.700 -52.240  1.00 31.53      A16S
ATOM  15220  C2* A   A 728     159.769 107.126 -48.947  1.00 39.26      A16S
ATOM  15221  O2* A   A 728     159.536 106.960 -47.565  1.00 39.26      A16S
ATOM  15222  C3* A   A 728     159.775 108.575 -49.397  1.00 39.26      A16S
ATOM  15223  O3* A   A 728     160.466 109.457 -48.554  1.00 39.26      A16S
ATOM  15224  P   A   A 729     161.922 109.944 -48.990  1.00 30.52      A16S
ATOM  15225  O1P A   A 729     162.315 111.078 -48.121  1.00 30.64      A16S
ATOM  15226  O2P A   A 729     161.906 110.119 -50.461  1.00 30.64      A16S
ATOM  15227  O5* A   A 729     162.818 108.697 -48.592  1.00 30.52      A16S
ATOM  15228  C5* A   A 729     162.875 108.333 -47.226  1.00 30.52      A16S
ATOM  15229  C4* A   A 729     163.294 106.912 -47.059  1.00 30.52      A16S
ATOM  15230  O4* A   A 729     162.380 106.008 -47.721  1.00 30.52      A16S
ATOM  15231  C1* A   A 729     163.064 104.815 -48.047  1.00 30.52      A16S
ATOM  15232  N9  A   A 729     163.019 104.628 -49.495  1.00 30.64      A16S
ATOM  15233  C4  A   A 729     163.097 103.430 -50.164  1.00 30.64      A16S
ATOM  15234  N3  A   A 729     163.181 102.198 -49.630  1.00 30.64      A16S
ATOM  15235  C2  A   A 729     163.266 101.284 -50.579  1.00 30.64      A16S
ATOM  15236  N1  A   A 729     163.289 101.446 -51.902  1.00 30.64      A16S
ATOM  15237  C6  A   A 729     163.215 102.699 -52.407  1.00 30.64      A16S
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ATOM  15238  N6  A   A 729     163.277 102.870 -53.733  1.00 30.64      A16S
ATOM  15239  C5  A   A 729     163.094 103.750 -51.507  1.00 30.64      A16S
ATOM  15240  N7  A   A 729     162.975 105.116 -51.688  1.00 30.64      A16S
ATOM  15241  C8  A   A 729     162.933 105.591 -50.467  1.00 30.64      A16S
ATOM  15242  C2* A   A 729     164.507 104.994 -47.572  1.00 30.52      A16S
ATOM  15243  O2* A   A 729     164.597 104.500 -46.245  1.00 30.52      A16S
ATOM  15244  C3* A   A 729     164.645 106.507 -47.592  1.00 30.52      A16S
ATOM  15245  O3* A   A 729     165.690 106.979 -46.753  1.00 30.52      A16S
ATOM  15246  P   G   A 730     167.105 107.389 -47.403  1.00 22.88      A16S
ATOM  15247  O1P G   A 730     167.941 107.905 -46.291  1.00 33.29      A16S
ATOM  15248  O2P G   A 730     166.905 108.243 -48.602  1.00 33.29      A16S
ATOM  15249  O5* G   A 730     167.656 105.968 -47.876  1.00 22.88      A16S
ATOM  15250  C5* G   A 730     167.953 104.936 -46.925  1.00 22.88      A16S
ATOM  15251  C4* G   A 730     168.275 103.650 -47.634  1.00 22.88      A16S
ATOM  15252  O4* G   A 730     167.118 103.254 -48.408  1.00 22.88      A16S
ATOM  15253  C1* G   A 730     167.530 102.579 -49.591  1.00 22.88      A16S
ATOM  15254  N9  G   A 730     167.068 103.325 -50.763  1.00 33.29      A16S
ATOM  15255  C4  G   A 730     167.187 102.909 -52.067  1.00 33.29      A16S
ATOM  15256  N3  G   A 730     167.688 101.729 -52.471  1.00 33.29      A16S
ATOM  15257  C2  G   A 730     167.711 101.627 -53.789  1.00 33.29      A16S
ATOM  15258  N2  G   A 730     168.175 100.505 -54.365  1.00 33.29      A16S
ATOM  15259  N1  G   A 730     167.283 102.611 -54.640  1.00 33.29      A16S
ATOM  15260  C6  G   A 730     166.769 103.831 -54.247  1.00 33.29      A16S
ATOM  15261  O6  G   A 730     166.432 104.639 -55.101  1.00 33.29      A16S
ATOM  15262  C5  G   A 730     166.725 103.953 -52.831  1.00 33.29      A16S
ATOM  15263  N7  G   A 730     166.283 104.994 -52.026  1.00 33.29      A16S
ATOM  15264  C8  G   A 730     166.493 104.574 -50.807  1.00 33.29      A16S
ATOM  15265  C2* G   A 730     169.058 102.527 -49.576  1.00 22.88      A16S
ATOM  15266  O2* G   A 730     169.492 101.293 -49.054  1.00 22.88      A16S
ATOM  15267  C3* G   A 730     169.401 103.689 -48.658  1.00 22.88      A16S
ATOM  15268  O3* G   A 730     170.703 103.536 -48.115  1.00 22.88      A16S
ATOM  15269  P   G   A 731     171.905 104.382 -48.752  1.00 38.18      A16S
ATOM  15270  O1P G   A 731     173.213 103.894 -48.255  1.00 33.83      A16S
ATOM  15271  O2P G   A 731     171.544 105.808 -48.580  1.00 33.83      A16S
ATOM  15272  O5* G   A 731     171.820 104.018 -50.296  1.00 38.18      A16S
ATOM  15273  C5* G   A 731     172.197 104.965 -51.305  1.00 38.18      A16S
ATOM  15274  C4* G   A 731     171.158 104.991 -52.392  1.00 38.18      A16S
ATOM  15275  O4* G   A 731     169.917 105.525 -51.860  1.00 38.18      A16S
ATOM  15276  C1* G   A 731     169.291 106.341 -52.838  1.00 38.18      A16S
ATOM  15277  N9  G   A 731     169.207 107.706 -52.317  1.00 33.83      A16S
ATOM  15278  C4  G   A 731     168.619 108.787 -52.934  1.00 33.83      A16S
ATOM  15279  N3  G   A 731     168.009 108.780 -54.129  1.00 33.83      A16S
ATOM  15280  C2  G   A 731     167.541 109.967 -54.454  1.00 33.83      A16S
ATOM  15281  N2  G   A 731     166.926 110.143 -55.624  1.00 33.83      A16S
ATOM  15282  N1  G   A 731     167.644 111.068 -53.667  1.00 33.83      A16S
ATOM  15283  C6  G   A 731     168.261 111.105 -52.430  1.00 33.83      A16S
ATOM  15284  O6  G   A 731     168.290 112.168 -51.792  1.00 33.83      A16S
ATOM  15285  C5  G   A 731     168.788 109.836 -52.072  1.00 33.83      A16S
ATOM  15286  N7  G   A 731     169.473 109.434 -50.939  1.00 33.83      A16S
ATOM  15287  C8  G   A 731     169.698 108.166 -51.127  1.00 33.83      A16S
ATOM  15288  C2* G   A 731     170.128 106.262 -54.117  1.00 38.18      A16S
ATOM  15289  O2* G   A 731     169.583 105.290 -54.980  1.00 38.18      A16S
ATOM  15290  C3* G   A 731     171.497 105.895 -53.560  1.00 38.18      A16S
ATOM  15291  O3* G   A 731     172.328 105.231 -54.501  1.00 38.18      A16S
ATOM  15292  P   C   A 732     173.557 106.024 -55.171  1.00 41.31      A16S
ATOM  15293  O1P C   A 732     174.351 105.006 -55.907  1.00 35.44      A16S
ATOM  15294  O2P C   A 732     174.224 106.847 -54.133  1.00 35.44      A16S
ATOM  15295  O5* C   A 732     172.838 106.988 -56.218  1.00 41.31      A16S
ATOM  15296  C5* C   A 732     172.040 106.433 -57.283  1.00 41.31      A16S
ATOM  15297  C4* C   A 732     171.277 107.513 -58.006  1.00 41.31      A16S
ATOM  15298  O4* C   A 732     170.278 108.073 -57.128  1.00 41.31      A16S
ATOM  15299  C1* C   A 732     170.116 109.454 -57.410  1.00 41.31      A16S
ATOM  15300  N1  C   A 732     170.430 110.235 -56.195  1.00 35.44      A16S
ATOM  15301  C6  C   A 732     171.069 109.662 -55.134  1.00 35.44      A16S
ATOM  15302  C2  C   A 732     170.073 111.591 -56.153  1.00 35.44      A16S
ATOM  15303  O2  C   A 732     169.447 112.078 -57.096  1.00 35.44      A16S
ATOM  15304  N3  C   A 732     170.411 112.332 -55.083  1.00 35.44      A16S
ATOM  15305  C4  C   A 732     171.051 111.771 -54.066  1.00 35.44      A16S
ATOM  15306  N4  C   A 732     171.378 112.551 -53.040  1.00 35.44      A16S
ATOM  15307  C5  C   A 732     171.391 110.384 -54.059  1.00 35.44      A16S
ATOM  15308  C2* C   A 732     171.034 109.798 -58.580  1.00 41.31      A16S
ATOM  15309  O2* C   A 732     170.313 109.685 -59.781  1.00 41.31      A16S
ATOM  15310  C3* C   A 732     172.087 108.710 -58.473  1.00 41.31      A16S
ATOM  15311  O3* C   A 732     172.713 108.470 -59.722  1.00 41.31      A16S
ATOM  15312  P   A   A 733     174.310 108.590 -59.850  1.00 67.71      A16S
ATOM  15313  O1P A   A 733     174.818 107.229 -60.059  1.00 37.72      A16S
ATOM  15314  O2P A   A 733     174.861 109.404 -58.750  1.00 37.72      A16S
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ATOM  15315  O5*  A   A 733     174.497 109.374 -61.211  1.00 67.71      A16S
ATOM  15316  C5*  A   A 733     175.539 110.330 -61.372  1.00 67.71      A16S
ATOM  15317  C4*  A   A 733     174.936 111.673 -61.614  1.00 67.71      A16S
ATOM  15318  O4*  A   A 733     174.651 112.305 -60.359  1.00 67.71      A16S
ATOM  15319  C1*  A   A 733     174.589 113.697 -60.565  1.00 67.71      A16S
ATOM  15320  N9   A   A 733     175.163 114.398 -59.426  1.00 37.72      A16S
ATOM  15321  C4   A   A 733     175.039 115.740 -59.193  1.00 37.72      A16S
ATOM  15322  N3   A   A 733     174.465 116.653 -59.989  1.00 37.72      A16S
ATOM  15323  C2   A   A 733     174.466 117.847 -59.401  1.00 37.72      A16S
ATOM  15324  N1   A   A 733     174.939 118.197 -58.201  1.00 37.72      A16S
ATOM  15325  C6   A   A 733     175.511 117.247 -57.434  1.00 37.72      A16S
ATOM  15326  N6   A   A 733     175.976 117.578 -56.229  1.00 37.72      A16S
ATOM  15327  C5   A   A 733     175.578 115.952 -57.945  1.00 37.72      A16S
ATOM  15328  N7   A   A 733     176.091 114.775 -57.426  1.00 37.72      A16S
ATOM  15329  C8   A   A 733     175.838 113.890 -58.354  1.00 37.72      A16S
ATOM  15330  C2*  A   A 733     175.197 114.012 -61.924  1.00 67.71      A16S
ATOM  15331  O2*  A   A 733     174.121 114.410 -62.764  1.00 67.71      A16S
ATOM  15332  C3*  A   A 733     175.826 112.672 -62.306  1.00 67.71      A16S
ATOM  15333  O3*  A   A 733     175.666 112.456 -63.686  1.00 67.71      A16S
ATOM  15334  P    G   A 734     176.809 111.721 -64.506  1.00 52.66      A16S
ATOM  15335  O1P  G   A 734     176.180 110.520 -65.104  1.00 38.53      A16S
ATOM  15336  O2P  G   A 734     177.979 111.578 -63.624  1.00 38.53      A16S
ATOM  15337  O5*  G   A 734     177.174 112.776 -65.633  1.00 52.66      A16S
ATOM  15338  C5*  G   A 734     177.677 114.078 -65.282  1.00 52.66      A16S
ATOM  15339  C4*  G   A 734     178.196 114.771 -66.513  1.00 52.66      A16S
ATOM  15340  O4*  G   A 734     179.294 113.993 -67.045  1.00 52.66      A16S
ATOM  15341  C1*  G   A 734     179.178 113.894 -68.446  1.00 52.66      A16S
ATOM  15342  N9   G   A 734     178.963 112.486 -68.758  1.00 38.53      A16S
ATOM  15343  C4   G   A 734     178.922 111.913 -70.006  1.00 38.53      A16S
ATOM  15344  N3   G   A 734     179.083 112.556 -71.177  1.00 38.53      A16S
ATOM  15345  C2   G   A 734     178.963 111.740 -72.201  1.00 38.53      A16S
ATOM  15346  N2   G   A 734     179.086 112.217 -73.440  1.00 38.53      A16S
ATOM  15347  N1   G   A 734     178.709 110.400 -72.095  1.00 38.53      A16S
ATOM  15348  C6   G   A 734     178.542 109.712 -70.907  1.00 38.53      A16S
ATOM  15349  O6   G   A 734     178.307 108.489 -70.927  1.00 38.53      A16S
ATOM  15350  C5   G   A 734     178.669 110.578 -69.787  1.00 38.53      A16S
ATOM  15351  N7   G   A 734     178.568 110.314 -68.429  1.00 38.53      A16S
ATOM  15352  C8   G   A 734     178.753 111.471 -67.860  1.00 38.53      A16S
ATOM  15353  C2*  G   A 734     178.035 114.816 -68.882  1.00 52.66      A16S
ATOM  15354  O2*  G   A 734     178.544 116.101 -69.152  1.00 52.66      A16S
ATOM  15355  C3*  G   A 734     177.173 114.856 -67.634  1.00 52.66      A16S
ATOM  15356  O3*  G   A 734     176.452 116.075 -67.534  1.00 52.66      A16S
ATOM  15357  P    C   A 735     174.902 116.114 -67.928  1.00 46.75      A16S
ATOM  15358  O1P  C   A 735     174.386 117.473 -67.594  1.00 43.92      A16S
ATOM  15359  O2P  C   A 735     174.258 114.919 -67.351  1.00 43.92      A16S
ATOM  15360  O5*  C   A 735     174.903 115.913 -69.501  1.00 46.75      A16S
ATOM  15361  C5*  C   A 735     175.539 116.869 -70.352  1.00 46.75      A16S
ATOM  15362  C4*  C   A 735     175.581 116.348 -71.754  1.00 46.75      A16S
ATOM  15363  O4*  C   A 735     176.447 115.192 -71.801  1.00 46.75      A16S
ATOM  15364  C1*  C   A 735     175.940 114.257 -72.727  1.00 46.75      A16S
ATOM  15365  N1   C   A 735     175.740 112.978 -72.044  1.00 43.92      A16S
ATOM  15366  C6   C   A 735     175.679 112.906 -70.684  1.00 43.92      A16S
ATOM  15367  C2   C   A 735     175.624 111.817 -72.819  1.00 43.92      A16S
ATOM  15368  O2   C   A 735     175.658 111.909 -74.055  1.00 43.92      A16S
ATOM  15369  N3   C   A 735     175.473 110.625 -72.205  1.00 43.92      A16S
ATOM  15370  C4   C   A 735     175.420 110.565 -70.878  1.00 43.92      A16S
ATOM  15371  N4   C   A 735     175.263 109.368 -70.322  1.00 43.92      A16S
ATOM  15372  C5   C   A 735     175.523 111.730 -70.065  1.00 43.92      A16S
ATOM  15373  C2*  C   A 735     174.660 114.828 -73.324  1.00 46.75      A16S
ATOM  15374  O2*  C   A 735     174.970 115.424 -74.566  1.00 46.75      A16S
ATOM  15375  C3*  C   A 735     174.251 115.833 -72.258  1.00 46.75      A16S
ATOM  15376  O3*  C   A 735     173.421 116.871 -72.747  1.00 46.75      A16S
ATOM  15377  P    C   A 736     171.842 116.627 -72.836  1.00 53.36      A16S
ATOM  15378  O1P  C   A 736     171.230 117.910 -73.249  1.00 35.92      A16S
ATOM  15379  O2P  C   A 736     171.362 115.953 -71.609  1.00 35.92      A16S
ATOM  15380  O5*  C   A 736     171.696 115.548 -73.992  1.00 53.36      A16S
ATOM  15381  C5*  C   A 736     171.946 115.904 -75.340  1.00 53.36      A16S
ATOM  15382  C4*  C   A 736     171.580 114.769 -76.245  1.00 53.36      A16S
ATOM  15383  O4*  C   A 736     172.466 113.650 -76.013  1.00 53.36      A16S
ATOM  15384  C1*  C   A 736     171.796 112.448 -76.339  1.00 53.36      A16S
ATOM  15385  N1   C   A 736     171.824 111.550 -75.181  1.00 35.92      A16S
ATOM  15386  C6   C   A 736     172.123 112.011 -73.932  1.00 35.92      A16S
ATOM  15387  C2   C   A 736     171.517 110.197 -75.383  1.00 35.92      A16S
ATOM  15388  O2   C   A 736     171.264 109.807 -76.533  1.00 35.92      A16S
ATOM  15389  N3   C   A 736     171.503 109.356 -74.326  1.00 35.92      A16S
ATOM  15390  C4   C   A 736     171.793 109.818 -73.110  1.00 35.92      A16S
ATOM  15391  N4   C   A 736     171.781 108.957 -72.094  1.00 35.92      A16S
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ATOM  15392  C5  C   A 736     172.117 111.189 -72.880  1.00 35.92      A16S
ATOM  15393  C2* C   A 736     170.362 112.803 -76.722  1.00 53.36      A16S
ATOM  15394  O2* C   A 736     170.270 112.840 -78.131  1.00 53.36      A16S
ATOM  15395  C3* C   A 736     170.200 114.170 -76.072  1.00 53.36      A16S
ATOM  15396  O3* C   A 736     169.202 114.942 -76.704  1.00 53.36      A16S
ATOM  15397  P   A   A 737     167.701 114.906 -76.140  1.00 49.30      A16S
ATOM  15398  O1P A   A 737     167.023 116.029 -76.838  1.00 40.78      A16S
ATOM  15399  O2P A   A 737     167.768 114.905 -74.661  1.00 40.78      A16S
ATOM  15400  O5* A   A 737     167.125 113.510 -76.656  1.00 49.30      A16S
ATOM  15401  C5* A   A 737     166.930 113.302 -78.055  1.00 49.30      A16S
ATOM  15402  C4* A   A 737     166.609 111.860 -78.351  1.00 49.30      A16S
ATOM  15403  O4* A   A 737     167.737 111.018 -78.005  1.00 49.30      A16S
ATOM  15404  C1* A   A 737     167.273 109.751 -77.571  1.00 49.30      A16S
ATOM  15405  N9  A   A 737     167.642 109.611 -76.164  1.00 40.78      A16S
ATOM  15406  C4  A   A 737     167.664 108.458 -75.417  1.00 40.78      A16S
ATOM  15407  N3  A   A 737     167.367 107.217 -75.824  1.00 40.78      A16S
ATOM  15408  C2  A   A 737     167.499 106.351 -74.822  1.00 40.78      A16S
ATOM  15409  N1  A   A 737     167.859 106.572 -73.559  1.00 40.78      A16S
ATOM  15410  C6  A   A 737     168.140 107.837 -73.183  1.00 40.78      A16S
ATOM  15411  N6  A   A 737     168.482 108.072 -71.914  1.00 40.78      A16S
ATOM  15412  C5  A   A 737     168.050 108.839 -74.150  1.00 40.78      A16S
ATOM  15413  N7  A   A 737     168.273 110.205 -74.093  1.00 40.78      A16S
ATOM  15414  C8  A   A 737     168.019 110.616 -75.310  1.00 40.78      A16S
ATOM  15415  C2* A   A 737     165.752 109.746 -77.731  1.00 49.30      A16S
ATOM  15416  O2* A   A 737     165.414 109.212 -78.995  1.00 49.30      A16S
ATOM  15417  C3* A   A 737     165.431 111.233 -77.624  1.00 49.30      A16S
ATOM  15418  O3* A   A 737     164.183 111.563 -78.220  1.00 49.30      A16S
ATOM  15419  P   C   A 738     162.879 111.756 -77.292  1.00 57.67      A16S
ATOM  15420  O1P C   A 738     161.909 112.521 -78.103  1.00 50.26      A16S
ATOM  15421  O2P C   A 738     163.236 112.254 -75.938  1.00 50.26      A16S
ATOM  15422  O5* C   A 738     162.347 110.274 -77.122  1.00 57.67      A16S
ATOM  15423  C5* C   A 738     162.251 109.417 -78.240  1.00 57.67      A16S
ATOM  15424  C4* C   A 738     162.195 107.997 -77.774  1.00 57.67      A16S
ATOM  15425  O4* C   A 738     163.482 107.603 -77.242  1.00 57.67      A16S
ATOM  15426  C1* C   A 738     163.293 106.666 -76.193  1.00 57.67      A16S
ATOM  15427  N1  C   A 738     163.884 107.205 -74.961  1.00 50.26      A16S
ATOM  15428  C6  C   A 738     164.109 108.547 -74.809  1.00 50.26      A16S
ATOM  15429  C2  C   A 738     164.202 106.312 -73.929  1.00 50.26      A16S
ATOM  15430  O2  C   A 738     164.003 105.086 -74.102  1.00 50.26      A16S
ATOM  15431  N3  C   A 738     164.714 106.802 -72.771  1.00 50.26      A16S
ATOM  15432  C4  C   A 738     164.905 108.115 -72.627  1.00 50.26      A16S
ATOM  15433  N4  C   A 738     165.375 108.550 -71.460  1.00 50.26      A16S
ATOM  15434  C5  C   A 738     164.612 109.039 -73.671  1.00 50.26      A16S
ATOM  15435  C2* C   A 738     161.792 106.442 -76.029  1.00 57.67      A16S
ATOM  15436  O2* C   A 738     161.417 105.275 -76.736  1.00 57.67      A16S
ATOM  15437  C3* C   A 738     161.230 107.720 -76.636  1.00 57.67      A16S
ATOM  15438  O3* C   A 738     159.913 107.554 -77.102  1.00 57.67      A16S
ATOM  15439  P   C   A 739     158.688 107.975 -76.164  1.00 61.24      A16S
ATOM  15440  O1P C   A 739     157.485 107.700 -76.981  1.00 51.54      A16S
ATOM  15441  O2P C   A 739     158.920 109.343 -75.620  1.00 51.54      A16S
ATOM  15442  O5* C   A 739     158.704 106.895 -74.996  1.00 61.24      A16S
ATOM  15443  C5* C   A 739     158.367 105.537 -75.281  1.00 61.24      A16S
ATOM  15444  C4* C   A 739     158.585 104.669 -74.070  1.00 61.24      A16S
ATOM  15445  O4* C   A 739     159.998 104.643 -73.733  1.00 61.24      A16S
ATOM  15446  C1* C   A 739     160.146 104.494 -72.332  1.00 61.24      A16S
ATOM  15447  N1  C   A 739     160.826 105.686 -71.792  1.00 51.54      A16S
ATOM  15448  C6  C   A 739     160.896 106.849 -72.507  1.00 51.54      A16S
ATOM  15449  C2  C   A 739     161.373 105.617 -70.507  1.00 51.54      A16S
ATOM  15450  O2  C   A 739     161.356 104.536 -69.907  1.00 51.54      A16S
ATOM  15451  N3  C   A 739     161.913 106.723 -69.957  1.00 51.54      A16S
ATOM  15452  C4  C   A 739     161.949 107.859 -70.650  1.00 51.54      A16S
ATOM  15453  N4  C   A 739     162.477 108.928 -70.060  1.00 51.54      A16S
ATOM  15454  C5  C   A 739     161.442 107.948 -71.980  1.00 51.54      A16S
ATOM  15455  C2* C   A 739     158.742 104.366 -71.736  1.00 61.24      A16S
ATOM  15456  O2* C   A 739     158.382 103.003 -71.649  1.00 61.24      A16S
ATOM  15457  C3* C   A 739     157.901 105.085 -72.778  1.00 61.24      A16S
ATOM  15458  O3* C   A 739     156.538 104.687 -72.708  1.00 61.24      A16S
ATOM  15459  P   U   A 740     155.436 105.729 -72.160  1.00 50.52      A16S
ATOM  15460  O1P U   A 740     154.122 105.111 -72.479  1.00 59.00      A16S
ATOM  15461  O2P U   A 740     155.757 107.092 -72.663  1.00 59.00      A16S
ATOM  15462  O5* U   A 740     155.649 105.768 -70.579  1.00 50.52      A16S
ATOM  15463  C5* U   A 740     155.450 104.583 -69.786  1.00 50.52      A16S
ATOM  15464  C4* U   A 740     156.086 104.717 -68.416  1.00 50.52      A16S
ATOM  15465  O4* U   A 740     157.529 104.892 -68.526  1.00 50.52      A16S
ATOM  15466  C1* U   A 740     158.008 105.587 -67.385  1.00 50.52      A16S
ATOM  15467  N1  U   A 740     158.605 106.860 -67.801  1.00 59.00      A16S
ATOM  15468  C6  U   A 740     158.304 107.428 -68.999  1.00 59.00      A16S
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ATOM  15469  C2  U   A 740     159.467 107.486 -66.914  1.00 59.00      A16S
ATOM  15470  O2  U   A 740     159.783 107.006 -65.839  1.00 59.00      A16S
ATOM  15471  N3  U   A 740     159.944 108.698 -67.328  1.00 59.00      A16S
ATOM  15472  C4  U   A 740     159.658 109.335 -68.506  1.00 59.00      A16S
ATOM  15473  O4  U   A 740     160.094 110.468 -68.702  1.00 59.00      A16S
ATOM  15474  C5  U   A 740     158.785 108.613 -69.373  1.00 59.00      A16S
ATOM  15475  C2* U   A 740     156.806 105.893 -66.504  1.00 50.52      A16S
ATOM  15476  O2* U   A 740     156.688 104.892 -65.514  1.00 50.52      A16S
ATOM  15477  C3* U   A 740     155.671 105.869 -67.519  1.00 50.52      A16S
ATOM  15478  O3* U   A 740     154.413 105.718 -66.881  1.00 50.52      A16S
ATOM  15479  P   G   A 741     153.760 106.986 -66.129  1.00 40.11      A16S
ATOM  15480  O1P G   A 741     152.341 106.643 -65.937  1.00 38.50      A16S
ATOM  15481  O2P G   A 741     154.119 108.257 -66.813  1.00 38.50      A16S
ATOM  15482  O5* G   A 741     154.494 107.008 -64.717  1.00 40.11      A16S
ATOM  15483  C5* G   A 741     154.478 105.849 -63.871  1.00 40.11      A16S
ATOM  15484  C4* G   A 741     155.047 106.175 -62.515  1.00 40.11      A16S
ATOM  15485  O4* G   A 741     156.478 106.370 -62.608  1.00 40.11      A16S
ATOM  15486  C1* G   A 741     156.895 107.312 -61.631  1.00 40.11      A16S
ATOM  15487  N9  G   A 741     157.438 108.474 -62.321  1.00 38.50      A16S
ATOM  15488  C4  G   A 741     158.133 109.524 -61.759  1.00 38.50      A16S
ATOM  15489  N3  G   A 741     158.514 109.630 -60.472  1.00 38.50      A16S
ATOM  15490  C2  G   A 741     159.140 110.774 -60.240  1.00 38.50      A16S
ATOM  15491  N2  G   A 741     159.620 111.052 -59.019  1.00 38.50      A16S
ATOM  15492  N1  G   A 741     159.348 111.733 -61.184  1.00 38.50      A16S
ATOM  15493  C6  G   A 741     158.948 111.646 -62.505  1.00 38.50      A16S
ATOM  15494  O6  G   A 741     159.152 112.589 -63.272  1.00 38.50      A16S
ATOM  15495  C5  G   A 741     158.314 110.424 -62.778  1.00 38.50      A16S
ATOM  15496  N7  G   A 741     157.800 109.932 -63.967  1.00 38.50      A16S
ATOM  15497  C8  G   A 741     157.301 108.771 -63.650  1.00 38.50      A16S
ATOM  15498  C2* G   A 741     155.651 107.739 -60.854  1.00 40.11      A16S
ATOM  15499  O2* G   A 741     155.516 106.986 -59.665  1.00 40.11      A16S
ATOM  15500  C3* G   A 741     154.555 107.450 -61.864  1.00 40.11      A16S
ATOM  15501  O3* G   A 741     153.284 107.334 -61.260  1.00 40.11      A16S
ATOM  15502  P   G   A 742     152.343 108.635 -61.171  1.00 44.07      A16S
ATOM  15503  O1P G   A 742     151.009 108.145 -60.739  1.00 44.71      A16S
ATOM  15504  O2P G   A 742     152.483 109.373 -62.459  1.00 44.71      A16S
ATOM  15505  O5* G   A 742     152.981 109.520 -60.005  1.00 44.07      A16S
ATOM  15506  C5* G   A 742     153.299 108.921 -58.747  1.00 44.07      A16S
ATOM  15507  C4* G   A 742     154.290 109.758 -57.979  1.00 44.07      A16S
ATOM  15508  O4* G   A 742     155.499 109.969 -58.751  1.00 44.07      A16S
ATOM  15509  C1* G   A 742     156.081 111.215 -58.397  1.00 44.07      A16S
ATOM  15510  N9  G   A 742     156.133 112.060 -59.583  1.00 44.71      A16S
ATOM  15511  C4  G   A 742     156.744 113.285 -59.690  1.00 44.71      A16S
ATOM  15512  N3  G   A 742     157.427 113.915 -58.718  1.00 44.71      A16S
ATOM  15513  C2  G   A 742     157.880 115.087 -59.112  1.00 44.71      A16S
ATOM  15514  N2  G   A 742     158.579 115.854 -58.258  1.00 44.71      A16S
ATOM  15515  N1  G   A 742     157.679 115.598 -60.368  1.00 44.71      A16S
ATOM  15516  C6  G   A 742     156.978 114.964 -61.385  1.00 44.71      A16S
ATOM  15517  O6  G   A 742     156.850 115.516 -62.488  1.00 44.71      A16S
ATOM  15518  C5  G   A 742     156.490 113.709 -60.970  1.00 44.71      A16S
ATOM  15519  N7  G   A 742     155.751 112.765 -61.662  1.00 44.71      A16S
ATOM  15520  C8  G   A 742     155.566 111.804 -60.802  1.00 44.71      A16S
ATOM  15521  C2* G   A 742     155.195 111.850 -57.330  1.00 44.07      A16S
ATOM  15522  O2* G   A 742     155.757 111.586 -56.057  1.00 44.07      A16S
ATOM  15523  C3* G   A 742     153.861 111.156 -57.589  1.00 44.07      A16S
ATOM  15524  O3* G   A 742     153.027 111.147 -56.447  1.00 44.07      A16S
ATOM  15525  P   U   A 743     151.870 112.253 -56.312  1.00 50.88      A16S
ATOM  15526  O1P U   A 743     151.349 112.107 -54.922  1.00 54.77      A16S
ATOM  15527  O2P U   A 743     150.939 112.112 -57.472  1.00 54.77      A16S
ATOM  15528  O5* U   A 743     152.648 113.644 -56.419  1.00 50.88      A16S
ATOM  15529  C5* U   A 743     153.579 114.015 -55.397  1.00 50.88      A16S
ATOM  15530  C4* U   A 743     154.322 115.273 -55.765  1.00 50.88      A16S
ATOM  15531  O4* U   A 743     155.089 115.077 -56.972  1.00 50.88      A16S
ATOM  15532  C1* U   A 743     155.180 116.297 -57.683  1.00 50.88      A16S
ATOM  15533  N1  U   A 743     154.601 116.099 -59.015  1.00 54.77      A16S
ATOM  15534  C6  U   A 743     153.941 114.939 -59.335  1.00 54.77      A16S
ATOM  15535  C2  U   A 743     154.728 117.121 -59.927  1.00 54.77      A16S
ATOM  15536  O2  U   A 743     155.324 118.158 -59.684  1.00 54.77      A16S
ATOM  15537  N3  U   A 743     154.130 116.887 -61.136  1.00 54.77      A16S
ATOM  15538  C4  U   A 743     153.439 115.754 -61.516  1.00 54.77      A16S
ATOM  15539  O4  U   A 743     152.908 115.708 -62.628  1.00 54.77      A16S
ATOM  15540  C5  U   A 743     153.374 114.736 -60.521  1.00 54.77      A16S
ATOM  15541  C2* U   A 743     154.426 117.358 -56.886  1.00 50.88      A16S
ATOM  15542  O2* U   A 743     155.364 118.104 -56.142  1.00 50.88      A16S
ATOM  15543  C3* U   A 743     153.489 116.503 -56.038  1.00 50.88      A16S
ATOM  15544  O3* U   A 743     153.142 117.126 -54.816  1.00 50.88      A16S
ATOM  15545  P   C   A 744     151.787 117.979 -54.715  1.00 58.21      A16S
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ATOM  15546  O1P C   A 744     151.485 118.053 -53.259  1.00 32.60      A16S
ATOM  15547  O2P C   A 744     150.782 117.413 -55.651  1.00 32.60      A16S
ATOM  15548  O5* C   A 744     152.203 119.425 -55.238  1.00 58.21      A16S
ATOM  15549  C5* C   A 744     153.165 120.202 -54.517  1.00 58.21      A16S
ATOM  15550  C4* C   A 744     153.580 121.395 -55.326  1.00 58.21      A16S
ATOM  15551  O4* C   A 744     154.224 120.950 -56.542  1.00 58.21      A16S
ATOM  15552  C1* C   A 744     153.924 121.849 -57.595  1.00 58.21      A16S
ATOM  15553  N1   C   A 744     153.213 121.119 -58.651  1.00 32.60      A16S
ATOM  15554  C6   C   A 744     152.646 119.904 -58.409  1.00 32.60      A16S
ATOM  15555  C2   C   A 744     153.139 121.691 -59.924  1.00 32.60      A16S
ATOM  15556  O2   C   A 744     153.654 122.809 -60.111  1.00 32.60      A16S
ATOM  15557  N3   C   A 744     152.518 121.023 -60.915  1.00 32.60      A16S
ATOM  15558  C4   C   A 744     151.987 119.830 -60.675  1.00 32.60      A16S
ATOM  15559  N4   C   A 744     151.404 119.193 -61.686  1.00 32.60      A16S
ATOM  15560  C5   C   A 744     152.034 119.228 -59.383  1.00 32.60      A16S
ATOM  15561  C2* C   A 744     153.075 122.974 -57.022  1.00 58.21      A16S
ATOM  15562  O2* C   A 744     153.937 124.037 -56.674  1.00 58.21      A16S
ATOM  15563  C3* C   A 744     152.452 122.285 -55.817  1.00 58.21      A16S
ATOM  15564  O3* C   A 744     152.024 123.197 -54.825  1.00 58.21      A16S
ATOM  15565  P    C   A 745     150.485 123.654 -54.786  1.00 49.99      A16S
ATOM  15566  O1P C   A 745     150.288 124.192 -53.435  1.00 33.38      A16S
ATOM  15567  O2P C   A 745     149.619 122.545 -55.265  1.00 33.38      A16S
ATOM  15568  O5* C   A 745     150.404 124.839 -55.850  1.00 49.99      A16S
ATOM  15569  C5* C   A 745     151.240 126.005 -55.729  1.00 49.99      A16S
ATOM  15570  C4* C   A 745     151.160 126.834 -56.985  1.00 49.99      A16S
ATOM  15571  O4* C   A 745     151.708 126.089 -58.095  1.00 49.99      A16S
ATOM  15572  C1* C   A 745     150.976 126.368 -59.272  1.00 49.99      A16S
ATOM  15573  N1   C   A 745     150.412 125.116 -59.774  1.00 33.38      A16S
ATOM  15574  C6   C   A 745     150.274 124.029 -58.959  1.00 33.38      A16S
ATOM  15575  C2   C   A 745     150.035 125.047 -61.117  1.00 33.38      A16S
ATOM  15576  O2   C   A 745     150.126 126.069 -61.822  1.00 33.38      A16S
ATOM  15577  N3   C   A 745     149.580 123.883 -61.613  1.00 33.38      A16S
ATOM  15578  C4   C   A 745     149.487 122.817 -60.819  1.00 33.38      A16S
ATOM  15579  N4   C   A 745     149.079 121.672 -61.363  1.00 33.38      A16S
ATOM  15580  C5   C   A 745     149.821 122.871 -59.435  1.00 33.38      A16S
ATOM  15581  C2* C   A 745     149.902 127.385 -58.930  1.00 49.99      A16S
ATOM  15582  O2* C   A 745     150.403 128.654 -59.274  1.00 49.99      A16S
ATOM  15583  C3* C   A 745     149.755 127.167 -57.432  1.00 49.99      A16S
ATOM  15584  O3* C   A 745     149.258 128.302 -56.762  1.00 49.99      A16S
ATOM  15585  P    A   A 746     147.680 128.503 -56.662  1.00 68.23      A16S
ATOM  15586  O1P A   A 746     147.440 129.607 -55.680  1.00 45.57      A16S
ATOM  15587  O2P A   A 746     147.084 127.160 -56.434  1.00 45.57      A16S
ATOM  15588  O5* A   A 746     147.281 128.937 -58.139  1.00 68.23      A16S
ATOM  15589  C5* A   A 746     147.701 130.198 -58.666  1.00 68.23      A16S
ATOM  15590  C4* A   A 746     147.213 130.343 -60.075  1.00 68.23      A16S
ATOM  15591  O4* A   A 746     147.766 129.258 -60.849  1.00 68.23      A16S
ATOM  15592  C1* A   A 746     146.830 128.834 -61.817  1.00 68.23      A16S
ATOM  15593  N9   A   A 746     146.559 127.414 -61.604  1.00 45.57      A16S
ATOM  15594  C4   A   A 746     145.935 126.572 -62.491  1.00 45.57      A16S
ATOM  15595  N3   A   A 746     145.407 126.891 -63.681  1.00 45.57      A16S
ATOM  15596  C2   A   A 746     144.913 125.808 -64.278  1.00 45.57      A16S
ATOM  15597  N1   A   A 746     144.899 124.538 -63.858  1.00 45.57      A16S
ATOM  15598  C6   A   A 746     145.446 124.257 -62.663  1.00 45.57      A16S
ATOM  15599  N6   A   A 746     145.460 122.996 -62.260  1.00 45.57      A16S
ATOM  15600  C5   A   A 746     145.982 125.318 -61.920  1.00 45.57      A16S
ATOM  15601  N7   A   A 746     146.584 125.372 -60.672  1.00 45.57      A16S
ATOM  15602  C8   A   A 746     146.899 126.638 -60.527  1.00 45.57      A16S
ATOM  15603  C2* A   A 746     145.600 129.722 -61.696  1.00 68.23      A16S
ATOM  15604  O2* A   A 746     145.740 130.773 -62.621  1.00 68.23      A16S
ATOM  15605  C3* A   A 746     145.714 130.203 -60.259  1.00 68.23      A16S
ATOM  15606  O3* A   A 746     145.025 131.426 -60.040  1.00 68.23      A16S
ATOM  15607  P    C   A 747     143.489 131.393 -59.558  1.00 66.34      A16S
ATOM  15608  O1P C   A 747     143.027 132.803 -59.499  1.00 62.17      A16S
ATOM  15609  O2P C   A 747     143.388 130.543 -58.342  1.00 62.17      A16S
ATOM  15610  O5* C   A 747     142.732 130.663 -60.757  1.00 66.34      A16S
ATOM  15611  C5* C   A 747     142.715 131.243 -62.076  1.00 66.34      A16S
ATOM  15612  C4* C   A 747     141.787 130.468 -62.983  1.00 66.34      A16S
ATOM  15613  O4* C   A 747     142.389 129.221 -63.399  1.00 66.34      A16S
ATOM  15614  C1* C   A 747     141.387 128.229 -63.524  1.00 66.34      A16S
ATOM  15615  N1   C   A 747     141.770 127.077 -62.693  1.00 62.17      A16S
ATOM  15616  C6   C   A 747     142.299 127.262 -61.444  1.00 62.17      A16S
ATOM  15617  C2   C   A 747     141.580 125.777 -63.196  1.00 62.17      A16S
ATOM  15618  O2   C   A 747     141.119 125.629 -64.342  1.00 62.17      A16S
ATOM  15619  N3   C   A 747     141.909 124.723 -62.420  1.00 62.17      A16S
ATOM  15620  C4   C   A 747     142.416 124.923 -61.200  1.00 62.17      A16S
ATOM  15621  N4   C   A 747     142.714 123.856 -60.465  1.00 62.17      A16S
ATOM  15622  C5   C   A 747     142.635 126.225 -60.677  1.00 62.17      A16S
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ATOM  15623  C2* C   A 747     140.037 128.851 -63.147  1.00 66.34      A16S
ATOM  15624  O2* C   A 747     139.320 129.147 -64.318  1.00 66.34      A16S
ATOM  15625  C3* C   A 747     140.459 130.089 -62.360  1.00 66.34      A16S
ATOM  15626  O3* C   A 747     139.551 131.175 -62.504  1.00 66.34      A16S
ATOM  15627  P    C   A 748     138.461 131.450 -61.367  1.00 74.35      A16S
ATOM  15628  O1P C   A 748     137.611 132.572 -61.828  1.00 78.50      A16S
ATOM  15629  O2P C   A 748     139.133 131.536 -60.044  1.00 78.50      A16S
ATOM  15630  O5* C   A 748     137.601 130.122 -61.414  1.00 74.35      A16S
ATOM  15631  C5* C   A 748     136.533 129.927 -60.507  1.00 74.35      A16S
ATOM  15632  C4* C   A 748     135.892 128.594 -60.759  1.00 74.35      A16S
ATOM  15633  O4* C   A 748     136.939 127.613 -60.962  1.00 74.35      A16S
ATOM  15634  C1* C   A 748     137.079 126.810 -59.807  1.00 74.35      A16S
ATOM  15635  N1   C   A 748     138.462 126.993 -59.315  1.00 78.50      A16S
ATOM  15636  C6   C   A 748     138.975 128.250 -59.135  1.00 78.50      A16S
ATOM  15637  C2   C   A 748     139.244 125.864 -59.012  1.00 78.50      A16S
ATOM  15638  O2   C   A 748     138.787 124.727 -59.237  1.00 78.50      A16S
ATOM  15639  N3   C   A 748     140.483 126.042 -58.491  1.00 78.50      A16S
ATOM  15640  C4   C   A 748     140.954 127.275 -58.291  1.00 78.50      A16S
ATOM  15641  N4   C   A 748     142.166 127.400 -57.743  1.00 78.50      A16S
ATOM  15642  C5   C   A 748     140.203 128.434 -58.634  1.00 78.50      A16S
ATOM  15643  C2* C   A 748     136.042 127.266 -58.770  1.00 74.35      A16S
ATOM  15644  O2* C   A 748     135.476 126.232 -57.983  1.00 74.35      A16S
ATOM  15645  C3* C   A 748     135.057 128.107 -59.591  1.00 74.35      A16S
ATOM  15646  O3* C   A 748     133.778 127.582 -60.018  1.00 74.35      A16S
ATOM  15647  P    C   A 749     133.633 126.092 -60.611  1.00 60.23      A16S
ATOM  15648  O1P C   A 749     132.171 125.933 -60.858  1.00 69.69      A16S
ATOM  15649  O2P C   A 749     134.331 125.090 -59.756  1.00 69.69      A16S
ATOM  15650  O5* C   A 749     134.368 126.166 -62.021  1.00 60.23      A16S
ATOM  15651  C5* C   A 749     133.611 126.341 -63.218  1.00 60.23      A16S
ATOM  15652  C4* C   A 749     133.661 125.087 -64.052  1.00 60.23      A16S
ATOM  15653  O4* C   A 749     135.008 124.922 -64.547  1.00 60.23      A16S
ATOM  15654  C1* C   A 749     135.345 123.548 -64.576  1.00 60.23      A16S
ATOM  15655  N1   C   A 749     136.480 123.345 -63.660  1.00 69.69      A16S
ATOM  15656  C6   C   A 749     136.917 124.360 -62.856  1.00 69.69      A16S
ATOM  15657  C2   C   A 749     137.102 122.099 -63.620  1.00 69.69      A16S
ATOM  15658  O2   C   A 749     136.692 121.198 -64.371  1.00 69.69      A16S
ATOM  15659  N3   C   A 749     138.131 121.906 -62.768  1.00 69.69      A16S
ATOM  15660  C4   C   A 749     138.542 122.902 -61.982  1.00 69.69      A16S
ATOM  15661  N4   C   A 749     139.549 122.667 -61.146  1.00 69.69      A16S
ATOM  15662  C5   C   A 749     137.935 124.184 -62.013  1.00 69.69      A16S
ATOM  15663  C2* C   A 749     134.103 122.757 -64.162  1.00 60.23      A16S
ATOM  15664  O2* C   A 749     133.393 122.326 -65.308  1.00 60.23      A16S
ATOM  15665  C3* C   A 749     133.346 123.786 -63.335  1.00 60.23      A16S
ATOM  15666  O3* C   A 749     131.956 123.502 -63.301  1.00 60.23      A16S
ATOM  15667  P    G   A 750     131.391 122.419 -62.250  1.00 53.23      A16S
ATOM  15668  O1P G   A 750     129.910 122.328 -62.409  1.00 51.01      A16S
ATOM  15669  O2P G   A 750     131.959 122.741 -60.902  1.00 51.01      A16S
ATOM  15670  O5* G   A 750     131.983 121.036 -62.775  1.00 53.23      A16S
ATOM  15671  C5* G   A 750     131.385 120.358 -63.882  1.00 53.23      A16S
ATOM  15672  C4* G   A 750     131.790 118.906 -63.882  1.00 53.23      A16S
ATOM  15673  O4* G   A 750     133.239 118.841 -63.903  1.00 53.23      A16S
ATOM  15674  C1* G   A 750     133.690 117.791 -63.067  1.00 53.23      A16S
ATOM  15675  N9   G   A 750     134.408 118.395 -61.944  1.00 51.01      A16S
ATOM  15676  C4   G   A 750     135.036 117.742 -60.903  1.00 51.01      A16S
ATOM  15677  N3   G   A 750     135.103 116.407 -60.723  1.00 51.01      A16S
ATOM  15678  C2   G   A 750     135.767 116.087 -59.630  1.00 51.01      A16S
ATOM  15679  N2   G   A 750     135.911 114.808 -59.303  1.00 51.01      A16S
ATOM  15680  N1   G   A 750     136.330 117.001 -58.782  1.00 51.01      A16S
ATOM  15681  C6   G   A 750     136.274 118.380 -58.946  1.00 51.01      A16S
ATOM  15682  O6   G   A 750     136.811 119.122 -58.118  1.00 51.01      A16S
ATOM  15683  C5   G   A 750     135.559 118.738 -60.111  1.00 51.01      A16S
ATOM  15684  N7   G   A 750     135.268 119.989 -60.634  1.00 51.01      A16S
ATOM  15685  C8   G   A 750     134.588 119.738 -61.717  1.00 51.01      A16S
ATOM  15686  C2* G   A 750     132.452 117.002 -62.643  1.00 53.23      A16S
ATOM  15687  O2* G   A 750     132.232 115.991 -63.608  1.00 53.23      A16S
ATOM  15688  C3* G   A 750     131.377 118.083 -62.669  1.00 53.23      A16S
ATOM  15689  O3* G   A 750     130.061 117.546 -62.812  1.00 53.23      A16S
ATOM  15690  P    U   A 751     129.206 117.141 -61.504  1.00 56.71      A16S
ATOM  15691  O1P U   A 751     127.939 116.534 -61.970  1.00 38.28      A16S
ATOM  15692  O2P U   A 751     129.167 118.274 -60.544  1.00 38.28      A16S
ATOM  15693  O5* U   A 751     130.012 115.932 -60.867  1.00 56.71      A16S
ATOM  15694  C5* U   A 751     129.938 114.633 -61.463  1.00 56.71      A16S
ATOM  15695  C4* U   A 751     130.585 113.606 -60.571  1.00 56.71      A16S
ATOM  15696  O4* U   A 751     131.953 114.005 -60.312  1.00 56.71      A16S
ATOM  15697  C1* U   A 751     132.320 113.604 -59.007  1.00 56.71      A16S
ATOM  15698  N1   U   A 751     132.746 114.793 -58.251  1.00 38.28      A16S
ATOM  15699  C6   U   A 751     132.485 116.062 -58.700  1.00 38.28      A16S
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ATOM  15700  C2  U   A 751     133.448 114.585 -57.076  1.00 38.28      A16S
ATOM  15701  O2  U   A 751     133.665 113.471 -56.614  1.00 38.28      A16S
ATOM  15702  N3  U   A 751     133.880 115.725 -56.455  1.00 38.28      A16S
ATOM  15703  C4  U   A 751     133.675 117.016 -56.866  1.00 38.28      A16S
ATOM  15704  O4  U   A 751     134.161 117.936 -56.211  1.00 38.28      A16S
ATOM  15705  C5  U   A 751     132.914 117.148 -58.068  1.00 38.28      A16S
ATOM  15706  C2* U   A 751     131.144 112.841 -58.397  1.00 56.71      A16S
ATOM  15707  O2* U   A 751     131.342 111.459 -58.650  1.00 56.71      A16S
ATOM  15708  C3* U   A 751     129.972 113.400 -59.193  1.00 56.71      A16S
ATOM  15709  O3* U   A 751     128.905 112.462 -59.247  1.00 56.71      A16S
ATOM  15710  P   G   A 752     127.631 112.652 -58.289  1.00 40.98      A16S
ATOM  15711  O1P G   A 752     126.804 111.423 -58.440  1.00 56.18      A16S
ATOM  15712  O2P G   A 752     127.042 113.990 -58.559  1.00 56.18      A16S
ATOM  15713  O5* G   A 752     128.230 112.726 -56.815  1.00 40.98      A16S
ATOM  15714  C5* G   A 752     128.885 111.589 -56.228  1.00 40.98      A16S
ATOM  15715  C4* G   A 752     129.623 112.012 -54.997  1.00 40.98      A16S
ATOM  15716  O4* G   A 752     130.324 113.239 -55.323  1.00 40.98      A16S
ATOM  15717  C1* G   A 752     129.995 114.229 -54.382  1.00 40.98      A16S
ATOM  15718  N9  G   A 752     130.031 115.533 -55.026  1.00 56.18      A16S
ATOM  15719  C4  G   A 752     130.778 116.613 -54.625  1.00 56.18      A16S
ATOM  15720  N3  G   A 752     131.651 116.635 -53.600  1.00 56.18      A16S
ATOM  15721  C2  G   A 752     132.192 117.827 -53.447  1.00 56.18      A16S
ATOM  15722  N2  G   A 752     133.106 118.034 -52.492  1.00 56.18      A16S
ATOM  15723  N1  G   A 752     131.884 118.907 -54.227  1.00 56.18      A16S
ATOM  15724  C6  G   A 752     130.990 118.897 -55.287  1.00 56.18      A16S
ATOM  15725  O6  G   A 752     130.783 119.925 -55.928  1.00 56.18      A16S
ATOM  15726  C5  G   A 752     130.424 117.636 -55.471  1.00 56.18      A16S
ATOM  15727  N7  G   A 752     129.505 117.202 -56.411  1.00 56.18      A16S
ATOM  15728  C8  G   A 752     129.310 115.944 -56.116  1.00 56.18      A16S
ATOM  15729  C2* G   A 752     128.626 113.840 -53.846  1.00 40.98      A16S
ATOM  15730  O2* G   A 752     128.405 114.434 -52.593  1.00 40.98      A16S
ATOM  15731  C3* G   A 752     128.756 112.327 -53.785  1.00 40.98      A16S
ATOM  15732  O3* G   A 752     129.510 112.008 -52.631  1.00 40.98      A16S
ATOM  15733  P   A   A 753     128.802 111.357 -51.351  1.00 40.70      A16S
ATOM  15734  O1P A   A 753     128.378 109.979 -51.735  1.00 40.35      A16S
ATOM  15735  O2P A   A 753     127.812 112.311 -50.807  1.00 40.35      A16S
ATOM  15736  O5* A   A 753     130.001 111.234 -50.306  1.00 40.70      A16S
ATOM  15737  C5* A   A 753     131.144 110.391 -50.605  1.00 40.70      A16S
ATOM  15738  C4* A   A 753     132.135 110.376 -49.458  1.00 40.70      A16S
ATOM  15739  O4* A   A 753     132.880 111.623 -49.393  1.00 40.70      A16S
ATOM  15740  C1* A   A 753     132.859 112.105 -48.072  1.00 40.70      A16S
ATOM  15741  N9  A   A 753     132.865 113.563 -48.103  1.00 40.35      A16S
ATOM  15742  C4  A   A 753     133.509 114.395 -47.216  1.00 40.35      A16S
ATOM  15743  N3  A   A 753     134.234 114.044 -46.148  1.00 40.35      A16S
ATOM  15744  C2  A   A 753     134.728 115.116 -45.545  1.00 40.35      A16S
ATOM  15745  N1  A   A 753     134.587 116.399 -45.859  1.00 40.35      A16S
ATOM  15746  C6  A   A 753     133.844 116.714 -46.936  1.00 40.35      A16S
ATOM  15747  N6  A   A 753     133.691 117.998 -47.253  1.00 40.35      A16S
ATOM  15748  C5  A   A 753     133.273 115.673 -47.661  1.00 40.35      A16S
ATOM  15749  N7  A   A 753     132.485 115.659 -48.797  1.00 40.35      A16S
ATOM  15750  C8  A   A 753     132.264 114.383 -49.013  1.00 40.35      A16S
ATOM  15751  C2* A   A 753     131.622 111.501 -47.419  1.00 40.70      A16S
ATOM  15752  O2* A   A 753     131.832 111.434 -46.026  1.00 40.70      A16S
ATOM  15753  C3* A   A 753     131.573 110.121 -48.066  1.00 40.70      A16S
ATOM  15754  O3* A   A 753     132.455 109.267 -47.357  1.00 40.70      A16S
ATOM  15755  P   C   A 754     132.313 107.673 -47.497  1.00 45.72      A16S
ATOM  15756  O1P C   A 754     130.872 107.311 -47.489  1.00 42.50      A16S
ATOM  15757  O2P C   A 754     133.236 107.057 -46.504  1.00 42.50      A16S
ATOM  15758  O5* C   A 754     132.886 107.383 -48.948  1.00 45.72      A16S
ATOM  15759  C5* C   A 754     134.226 107.744 -49.244  1.00 45.72      A16S
ATOM  15760  C4* C   A 754     134.591 107.333 -50.632  1.00 45.72      A16S
ATOM  15761  O4* C   A 754     133.744 108.015 -51.573  1.00 45.72      A16S
ATOM  15762  C1* C   A 754     134.491 108.353 -52.716  1.00 45.72      A16S
ATOM  15763  N1  C   A 754     134.216 109.762 -53.050  1.00 42.50      A16S
ATOM  15764  C6  C   A 754     133.590 110.067 -54.224  1.00 42.50      A16S
ATOM  15765  C2  C   A 754     134.565 110.782 -52.151  1.00 42.50      A16S
ATOM  15766  O2  C   A 754     135.187 110.498 -51.126  1.00 42.50      A16S
ATOM  15767  N3  C   A 754     134.216 112.055 -52.438  1.00 42.50      A16S
ATOM  15768  C4  C   A 754     133.567 112.328 -53.573  1.00 42.50      A16S
ATOM  15769  N4  C   A 754     133.203 113.586 -53.800  1.00 42.50      A16S
ATOM  15770  C5  C   A 754     133.253 111.322 -54.523  1.00 42.50      A16S
ATOM  15771  C2* C   A 754     135.943 107.919 -52.498  1.00 45.72      A16S
ATOM  15772  O2* C   A 754     136.155 106.695 -53.162  1.00 45.72      A16S
ATOM  15773  C3* C   A 754     135.999 107.749 -50.988  1.00 45.72      A16S
ATOM  15774  O3* C   A 754     136.860 106.701 -50.577  1.00 45.72      A16S
ATOM  15775  P   G   A 755     138.425 106.980 -50.353  1.00 36.16      A16S
ATOM  15776  O1P G   A 755     138.953 107.557 -51.623  1.00 29.51      A16S
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ATOM  15777  O2P G   A 755     138.998 105.711 -49.830  1.00 29.51      A16S
ATOM  15778  O5* G   A 755     138.506 108.066 -49.190  1.00 36.16      A16S
ATOM  15779  C5* G   A 755     139.003 109.376 -49.456  1.00 36.16      A16S
ATOM  15780  C4* G   A 755     139.170 110.131 -48.174  1.00 36.16      A16S
ATOM  15781  O4* G   A 755     137.939 110.026 -47.418  1.00 36.16      A16S
ATOM  15782  C1* G   A 755     138.226 109.859 -46.045  1.00 36.16      A16S
ATOM  15783  N9  G   A 755     137.827 108.502 -45.679  1.00 29.51      A16S
ATOM  15784  C4  G   A 755     137.887 107.931 -44.436  1.00 29.51      A16S
ATOM  15785  N3  G   A 755     138.319 108.528 -43.321  1.00 29.51      A16S
ATOM  15786  C2  G   A 755     138.267 107.721 -42.279  1.00 29.51      A16S
ATOM  15787  N2  G   A 755     138.678 108.162 -41.079  1.00 29.51      A16S
ATOM  15788  N1  G   A 755     137.820 106.430 -42.336  1.00 29.51      A16S
ATOM  15789  C6  G   A 755     137.379 105.795 -43.479  1.00 29.51      A16S
ATOM  15790  O6  G   A 755     137.016 104.619 -43.426  1.00 29.51      A16S
ATOM  15791  C5  G   A 755     137.425 106.649 -44.596  1.00 29.51      A16S
ATOM  15792  N7  G   A 755     137.067 106.416 -45.912  1.00 29.51      A16S
ATOM  15793  C8  G   A 755     137.325 107.540 -46.519  1.00 29.51      A16S
ATOM  15794  C2* G   A 755     139.731 110.058 -45.887  1.00 36.16      A16S
ATOM  15795  O2* G   A 755     140.004 111.432 -45.678  1.00 36.16      A16S
ATOM  15796  C3* G   A 755     140.229 109.586 -47.239  1.00 36.16      A16S
ATOM  15797  O3* G   A 755     141.520 110.084 -47.552  1.00 36.16      A16S
ATOM  15798  P   C   A 756     142.773 109.079 -47.554  1.00 35.68      A16S
ATOM  15799  O1P C   A 756     143.829 109.706 -48.376  1.00 33.74      A16S
ATOM  15800  O2P C   A 756     142.303 107.709 -47.881  1.00 33.74      A16S
ATOM  15801  O5* C   A 756     143.215 109.050 -46.036  1.00 35.68      A16S
ATOM  15802  C5* C   A 756     143.549 110.252 -45.371  1.00 35.68      A16S
ATOM  15803  C4* C   A 756     143.641 110.008 -43.898  1.00 35.68      A16S
ATOM  15804  O4* C   A 756     142.342 109.600 -43.411  1.00 35.68      A16S
ATOM  15805  C1* C   A 756     142.501 108.700 -42.330  1.00 35.68      A16S
ATOM  15806  N1  C   A 756     141.854 107.420 -42.670  1.00 33.74      A16S
ATOM  15807  C6  C   A 756     141.377 107.183 -43.927  1.00 33.74      A16S
ATOM  15808  C2  C   A 756     141.741 106.434 -41.672  1.00 33.74      A16S
ATOM  15809  O2  C   A 756     142.173 106.678 -40.526  1.00 33.74      A16S
ATOM  15810  N3  C   A 756     141.169 105.249 -41.979  1.00 33.74      A16S
ATOM  15811  C4  C   A 756     140.726 105.024 -43.216  1.00 33.74      A16S
ATOM  15812  N4  C   A 756     140.205 103.828 -43.486  1.00 33.74      A16S
ATOM  15813  C5  C   A 756     140.810 106.013 -44.239  1.00 33.74      A16S
ATOM  15814  C2* C   A 756     144.000 108.546 -42.091  1.00 35.68      A16S
ATOM  15815  O2* C   A 756     144.381 109.499 -41.114  1.00 35.68      A16S
ATOM  15816  C3* C   A 756     144.554 108.883 -43.465  1.00 35.68      A16S
ATOM  15817  O3* C   A 756     145.902 109.288 -43.426  1.00 35.68      A16S
ATOM  15818  P   U   A 757     147.046 108.283 -43.951  1.00 26.85      A16S
ATOM  15819  O1P U   A 757     148.279 109.090 -43.978  1.00 32.93      A16S
ATOM  15820  O2P U   A 757     146.590 107.603 -45.196  1.00 32.93      A16S
ATOM  15821  O5* U   A 757     147.169 107.177 -42.808  1.00 26.85      A16S
ATOM  15822  C5* U   A 757     147.496 107.536 -41.461  1.00 26.85      A16S
ATOM  15823  C4* U   A 757     147.078 106.440 -40.511  1.00 26.85      A16S
ATOM  15824  O4* U   A 757     145.650 106.251 -40.629  1.00 26.85      A16S
ATOM  15825  C1* U   A 757     145.325 104.904 -40.332  1.00 26.85      A16S
ATOM  15826  N1  U   A 757     144.578 104.312 -41.448  1.00 32.93      A16S
ATOM  15827  C6  U   A 757     144.519 104.898 -42.674  1.00 32.93      A16S
ATOM  15828  C2  U   A 757     143.959 103.110 -41.210  1.00 32.93      A16S
ATOM  15829  O2  U   A 757     143.928 102.585 -40.118  1.00 32.93      A16S
ATOM  15830  N3  U   A 757     143.367 102.543 -42.290  1.00 32.93      A16S
ATOM  15831  C4  U   A 757     143.300 103.052 -43.547  1.00 32.93      A16S
ATOM  15832  O4  U   A 757     142.771 102.383 -44.436  1.00 32.93      A16S
ATOM  15833  C5  U   A 757     143.915 104.329 -43.705  1.00 32.93      A16S
ATOM  15834  C2* U   A 757     146.626 104.141 -40.093  1.00 26.85      A16S
ATOM  15835  O2* U   A 757     146.830 103.957 -38.713  1.00 26.85      A16S
ATOM  15836  C3* U   A 757     147.650 105.049 -40.753  1.00 26.85      A16S
ATOM  15837  O3* U   A 757     148.936 104.844 -40.181  1.00 26.85      A16S
ATOM  15838  P   G   A 758     150.035 104.002 -40.999  1.00 28.85      A16S
ATOM  15839  O1P G   A 758     151.301 104.151 -40.237  1.00 41.25      A16S
ATOM  15840  O2P G   A 758     149.996 104.348 -42.447  1.00 41.25      A16S
ATOM  15841  O5* G   A 758     149.564 102.491 -40.896  1.00 28.85      A16S
ATOM  15842  C5* G   A 758     149.401 101.876 -39.623  1.00 28.85      A16S
ATOM  15843  C4* G   A 758     148.536 100.658 -39.754  1.00 28.85      A16S
ATOM  15844  O4* G   A 758     147.246 101.044 -40.286  1.00 28.85      A16S
ATOM  15845  C1* G   A 758     146.750 100.023 -41.117  1.00 28.85      A16S
ATOM  15846  N9  G   A 758     146.612 100.574 -42.451  1.00 41.25      A16S
ATOM  15847  C4  G   A 758     145.728 100.162 -43.395  1.00 41.25      A16S
ATOM  15848  N3  G   A 758     144.815  99.200 -43.236  1.00 41.25      A16S
ATOM  15849  C2  G   A 758     144.091  99.031 -44.315  1.00 41.25      A16S
ATOM  15850  N2  G   A 758     143.101  98.131 -44.305  1.00 41.25      A16S
ATOM  15851  N1  G   A 758     144.273  99.732 -45.475  1.00 41.25      A16S
ATOM  15852  C6  G   A 758     145.221 100.721 -45.665  1.00 41.25      A16S
ATOM  15853  O6  G   A 758     145.317 101.283 -46.762  1.00 41.25      A16S
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ATOM  15854  C5  G   A 758     145.981 100.935 -44.500  1.00 41.25      A16S
ATOM  15855  N7  G   A 758     147.002 101.839 -44.245  1.00 41.25      A16S
ATOM  15856  C8  G   A 758     147.344 101.588 -43.013  1.00 41.25      A16S
ATOM  15857  C2* G   A 758     147.737  98.858 -41.070  1.00 28.85      A16S
ATOM  15858  O2* G   A 758     147.260  97.969 -40.073  1.00 28.85      A16S
ATOM  15859  C3* G   A 758     149.039  99.565 -40.684  1.00 28.85      A16S
ATOM  15860  O3* G   A 758     149.957  98.760 -39.932  1.00 28.85      A16S
ATOM  15861  P   A   A 759     150.480  97.352 -40.505  1.00 31.16      A16S
ATOM  15862  O1P A   A 759     151.937  97.346 -40.260  1.00 37.48      A16S
ATOM  15863  O2P A   A 759     149.969  97.147 -41.871  1.00 37.48      A16S
ATOM  15864  O5* A   A 759     149.788  96.282 -39.550  1.00 31.16      A16S
ATOM  15865  C5* A   A 759     149.870  96.424 -38.110  1.00 31.16      A16S
ATOM  15866  C4* A   A 759     149.474  95.137 -37.419  1.00 31.16      A16S
ATOM  15867  O4* A   A 759     148.039  94.958 -37.461  1.00 31.16      A16S
ATOM  15868  C1* A   A 759     147.733  93.572 -37.476  1.00 31.16      A16S
ATOM  15869  N9  A   A 759     146.904  93.254 -38.642  1.00 37.48      A16S
ATOM  15870  C4  A   A 759     146.045  92.185 -38.720  1.00 37.48      A16S
ATOM  15871  N3  A   A 759     145.731  91.321 -37.742  1.00 37.48      A16S
ATOM  15872  C2  A   A 759     144.921  90.371 -38.204  1.00 37.48      A16S
ATOM  15873  N1  A   A 759     144.447  90.195 -39.439  1.00 37.48      A16S
ATOM  15874  C6  A   A 759     144.795  91.080 -40.394  1.00 37.48      A16S
ATOM  15875  N6  A   A 759     144.368  90.878 -41.632  1.00 37.48      A16S
ATOM  15876  C5  A   A 759     145.608  92.148 -40.029  1.00 37.48      A16S
ATOM  15877  N7  A   A 759     146.105  93.222 -40.744  1.00 37.48      A16S
ATOM  15878  C8  A   A 759     146.858  93.856 -39.876  1.00 37.48      A16S
ATOM  15879  C2* A   A 759     149.056  92.807 -37.521  1.00 31.16      A16S
ATOM  15880  O2* A   A 759     149.430  92.387 -36.230  1.00 31.16      A16S
ATOM  15881  C3* A   A 759     150.014  93.863 -38.034  1.00 31.16      A16S
ATOM  15882  O3* A   A 759     151.328  93.578 -37.624  1.00 31.16      A16S
ATOM  15883  P   G   A 760     152.417  93.193 -38.726  1.00 53.43      A16S
ATOM  15884  O1P G   A 760     153.530  92.602 -37.954  1.00 54.98      A16S
ATOM  15885  O2P G   A 760     152.658  94.368 -39.572  1.00 54.98      A16S
ATOM  15886  O5* G   A 760     151.715  92.092 -39.641  1.00 53.43      A16S
ATOM  15887  C5* G   A 760     151.490  90.771 -39.140  1.00 53.43      A16S
ATOM  15888  C4* G   A 760     150.650  89.938 -40.094  1.00 53.43      A16S
ATOM  15889  O4* G   A 760     149.343  90.536 -40.318  1.00 53.43      A16S
ATOM  15890  C1* G   A 760     148.802  90.023 -41.527  1.00 53.43      A16S
ATOM  15891  N9  G   A 760     148.561  91.112 -42.458  1.00 54.98      A16S
ATOM  15892  C4  G   A 760     147.706  91.075 -43.532  1.00 54.98      A16S
ATOM  15893  N3  G   A 760     146.884  90.056 -43.853  1.00 54.98      A16S
ATOM  15894  C2  G   A 760     146.187  90.313 -44.939  1.00 54.98      A16S
ATOM  15895  N2  G   A 760     145.281  89.433 -45.364  1.00 54.98      A16S
ATOM  15896  N1  G   A 760     146.314  91.464 -45.679  1.00 54.98      A16S
ATOM  15897  C6  G   A 760     147.164  92.524 -45.371  1.00 54.98      A16S
ATOM  15898  O6  G   A 760     147.208  93.527 -46.108  1.00 54.98      A16S
ATOM  15899  C5  G   A 760     147.891  92.271 -44.186  1.00 54.98      A16S
ATOM  15900  N7  G   A 760     148.814  93.058 -43.515  1.00 54.98      A16S
ATOM  15901  C8  G   A 760     149.174  92.335 -42.491  1.00 54.98      A16S
ATOM  15902  C2* G   A 760     149.864  89.131 -42.161  1.00 53.43      A16S
ATOM  15903  O2* G   A 760     149.607  87.782 -41.830  1.00 53.43      A16S
ATOM  15904  C3* G   A 760     151.135  89.653 -41.508  1.00 53.43      A16S
ATOM  15905  O3* G   A 760     152.135  88.654 -41.598  1.00 53.43      A16S
ATOM  15906  P   G   A 761     153.146  88.664 -42.852  1.00 48.25      A16S
ATOM  15907  O1P G   A 761     153.797  87.329 -42.876  1.00 42.94      A16S
ATOM  15908  O2P G   A 761     153.984  89.899 -42.761  1.00 42.94      A16S
ATOM  15909  O5* G   A 761     152.224  88.792 -44.147  1.00 48.25      A16S
ATOM  15910  C5* G   A 761     151.475  87.682 -44.615  1.00 48.25      A16S
ATOM  15911  C4* G   A 761     150.804  88.020 -45.914  1.00 48.25      A16S
ATOM  15912  O4* G   A 761     149.960  89.181 -45.738  1.00 48.25      A16S
ATOM  15913  C1* G   A 761     150.002  89.982 -46.902  1.00 48.25      A16S
ATOM  15914  N9  G   A 761     150.556  91.272 -46.521  1.00 42.94      A16S
ATOM  15915  C4  G   A 761     150.619  92.404 -47.287  1.00 42.94      A16S
ATOM  15916  N3  G   A 761     150.190  92.525 -48.554  1.00 42.94      A16S
ATOM  15917  C2  G   A 761     150.371  93.741 -49.014  1.00 42.94      A16S
ATOM  15918  N2  G   A 761     149.992  94.044 -50.261  1.00 42.94      A16S
ATOM  15919  N1  G   A 761     150.933  94.752 -48.289  1.00 42.94      A16S
ATOM  15920  C6  G   A 761     151.389  94.645 -46.984  1.00 42.94      A16S
ATOM  15921  O6  G   A 761     151.897  95.630 -46.412  1.00 42.94      A16S
ATOM  15922  C5  G   A 761     151.196  93.355 -46.483  1.00 42.94      A16S
ATOM  15923  N7  G   A 761     151.507  92.829 -45.244  1.00 42.94      A16S
ATOM  15924  C8  G   A 761     151.111  91.591 -45.314  1.00 42.94      A16S
ATOM  15925  C2* G   A 761     150.866  89.259 -47.931  1.00 48.25      A16S
ATOM  15926  O2* G   A 761     150.050  88.475 -48.776  1.00 48.25      A16S
ATOM  15927  C3* G   A 761     151.738  88.397 -47.039  1.00 48.25      A16S
ATOM  15928  O3* G   A 761     152.192  87.253 -47.723  1.00 48.25      A16S
ATOM  15929  P   C   A 762     153.684  87.234 -48.298  1.00 49.82      A16S
ATOM  15930  O1P C   A 762     153.877  85.886 -48.908  1.00 32.73      A16S
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ATOM  15931  O2P C   A 762     154.599  87.679 -47.190  1.00 32.73      A16S
ATOM  15932  O5* C   A 762     153.670  88.346 -49.445  1.00 49.82      A16S
ATOM  15933  C5* C   A 762     153.022  88.095 -50.701  1.00 49.82      A16S
ATOM  15934  C4* C   A 762     153.006  89.346 -51.547  1.00 49.82      A16S
ATOM  15935  O4* C   A 762     152.300  90.385 -50.831  1.00 49.82      A16S
ATOM  15936  C1* C   A 762     152.839  91.648 -51.166  1.00 49.82      A16S
ATOM  15937  N1   C   A 762     153.365  92.255 -49.947  1.00 32.73      A16S
ATOM  15938  C6   C   A 762     153.536  91.508 -48.816  1.00 32.73      A16S
ATOM  15939  C2   C   A 762     153.696  93.614 -49.956  1.00 32.73      A16S
ATOM  15940  O2   C   A 762     153.569  94.261 -51.006  1.00 32.73      A16S
ATOM  15941  N3   C   A 762     154.158  94.180 -48.823  1.00 32.73      A16S
ATOM  15942  C4   C   A 762     154.310  93.441 -47.720  1.00 32.73      A16S
ATOM  15943  N4   C   A 762     154.753  94.041 -46.623  1.00 32.73      A16S
ATOM  15944  C5   C   A 762     154.007  92.055 -47.694  1.00 32.73      A16S
ATOM  15945  C2* C   A 762     153.952  91.421 -52.179  1.00 49.82      A16S
ATOM  15946  O2* C   A 762     153.431  91.556 -53.478  1.00 49.82      A16S
ATOM  15947  C3* C   A 762     154.340  89.987 -51.882  1.00 49.82      A16S
ATOM  15948  O3* C   A 762     154.958  89.420 -53.010  1.00 49.82      A16S
ATOM  15949  P    G   A 763     156.561  89.446 -53.122  1.00 53.65      A16S
ATOM  15950  O1P G   A 763     156.857  88.670 -54.363  1.00 23.14      A16S
ATOM  15951  O2P G   A 763     157.148  89.021 -51.826  1.00 23.14      A16S
ATOM  15952  O5* G   A 763     156.946  90.975 -53.358  1.00 53.65      A16S
ATOM  15953  C5* G   A 763     156.724  91.564 -54.638  1.00 53.65      A16S
ATOM  15954  C4* G   A 763     156.916  93.055 -54.596  1.00 53.65      A16S
ATOM  15955  O4* G   A 763     156.099  93.648 -53.553  1.00 53.65      A16S
ATOM  15956  C1* G   A 763     156.739  94.812 -53.048  1.00 53.65      A16S
ATOM  15957  N9   G   A 763     157.059  94.593 -51.638  1.00 23.14      A16S
ATOM  15958  C4   G   A 763     157.536  95.522 -50.757  1.00 23.14      A16S
ATOM  15959  N3   G   A 763     157.809  96.802 -51.040  1.00 23.14      A16S
ATOM  15960  C2   G   A 763     158.255  97.459 -49.978  1.00 23.14      A16S
ATOM  15961  N2   G   A 763     158.586  98.747 -50.094  1.00 23.14      A16S
ATOM  15962  N1   G   A 763     158.410  96.905 -48.729  1.00 23.14      A16S
ATOM  15963  C6   G   A 763     158.131  95.582 -48.413  1.00 23.14      A16S
ATOM  15964  O6   G   A 763     158.294  95.171 -47.248  1.00 23.14      A16S
ATOM  15965  C5   G   A 763     157.667  94.861 -49.558  1.00 23.14      A16S
ATOM  15966  N7   G   A 763     157.299  93.532 -49.689  1.00 23.14      A16S
ATOM  15967  C8   G   A 763     156.943  93.421 -50.937  1.00 23.14      A16S
ATOM  15968  C2* G   A 763     158.006  95.000 -53.873  1.00 53.65      A16S
ATOM  15969  O2* G   A 763     157.709  95.823 -54.990  1.00 53.65      A16S
ATOM  15970  C3* G   A 763     158.297  93.567 -54.280  1.00 53.65      A16S
ATOM  15971  O3* G   A 763     159.168  93.488 -55.371  1.00 53.65      A16S
ATOM  15972  P    C   A 764     160.722  93.205 -55.096  1.00 35.91      A16S
ATOM  15973  O1P C   A 764     161.342  92.882 -56.408  1.00 16.74      A16S
ATOM  15974  O2P C   A 764     160.833  92.239 -53.982  1.00 16.74      A16S
ATOM  15975  O5* C   A 764     161.266  94.610 -54.590  1.00 35.91      A16S
ATOM  15976  C5* C   A 764     161.204  95.745 -55.451  1.00 35.91      A16S
ATOM  15977  C4* C   A 764     161.551  96.989 -54.691  1.00 35.91      A16S
ATOM  15978  O4* C   A 764     160.652  97.128 -53.567  1.00 35.91      A16S
ATOM  15979  C1* C   A 764     161.327  97.747 -52.492  1.00 35.91      A16S
ATOM  15980  N1   C   A 764     161.294  96.850 -51.337  1.00 16.74      A16S
ATOM  15981  C6   C   A 764     160.871  95.563 -51.455  1.00 16.74      A16S
ATOM  15982  C2   C   A 764     161.712  97.341 -50.099  1.00 16.74      A16S
ATOM  15983  O2   C   A 764     162.123  98.514 -50.023  1.00 16.74      A16S
ATOM  15984  N3   C   A 764     161.681  96.536 -49.019  1.00 16.74      A16S
ATOM  15985  C4   C   A 764     161.288  95.278 -49.147  1.00 16.74      A16S
ATOM  15986  N4   C   A 764     161.332  94.508 -48.068  1.00 16.74      A16S
ATOM  15987  C5   C   A 764     160.849  94.748 -50.394  1.00 16.74      A16S
ATOM  15988  C2* C   A 764     162.755  98.027 -52.941  1.00 35.91      A16S
ATOM  15989  O2* C   A 764     162.855  99.351 -53.426  1.00 35.91      A16S
ATOM  15990  C3* C   A 764     162.923  97.009 -54.051  1.00 35.91      A16S
ATOM  15991  O3* C   A 764     163.932  97.404 -54.952  1.00 35.91      A16S
ATOM  15992  P    G   A 765     165.386  96.774 -54.797  1.00 32.92      A16S
ATOM  15993  O1P G   A 765     166.207  97.401 -55.856  1.00 22.83      A16S
ATOM  15994  O2P G   A 765     165.233  95.313 -54.745  1.00 22.83      A16S
ATOM  15995  O5* G   A 765     165.883  97.244 -53.358  1.00 32.92      A16S
ATOM  15996  C5* G   A 765     166.384  98.568 -53.154  1.00 32.92      A16S
ATOM  15997  C4* G   A 765     166.587  98.829 -51.689  1.00 32.92      A16S
ATOM  15998  O4* G   A 765     165.353  98.547 -50.993  1.00 32.92      A16S
ATOM  15999  C1* G   A 765     165.624  97.978 -49.734  1.00 32.92      A16S
ATOM  16000  N9   G   A 765     165.123  96.622 -49.784  1.00 22.83      A16S
ATOM  16001  C4   G   A 765     165.030  95.754 -48.745  1.00 22.83      A16S
ATOM  16002  N3   G   A 765     165.355  96.018 -47.474  1.00 22.83      A16S
ATOM  16003  C2   G   A 765     165.156  94.975 -46.695  1.00 22.83      A16S
ATOM  16004  N2   G   A 765     165.393  95.076 -45.375  1.00 22.83      A16S
ATOM  16005  N1   G   A 765     164.701  93.764 -47.147  1.00 22.83      A16S
ATOM  16006  C6   G   A 765     164.372  93.483 -48.465  1.00 22.83      A16S
ATOM  16007  O6   G   A 765     163.976  92.364 -48.781  1.00 22.83      A16S
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ATOM  16008  C5  G   A 765     164.556  94.583 -49.287  1.00 22.83      A16S
ATOM  16009  N7  G   A 765     164.335  94.722 -50.648  1.00 22.83      A16S
ATOM  16010  C8  G   A 765     164.681  95.951 -50.899  1.00 22.83      A16S
ATOM  16011  C2* G   A 765     167.139  97.988 -49.547  1.00 32.92      A16S
ATOM  16012  O2* G   A 765     167.494  99.175 -48.848  1.00 32.92      A16S
ATOM  16013  C3* G   A 765     167.622  97.972 -50.994  1.00 32.92      A16S
ATOM  16014  O3* G   A 765     168.878  98.592 -51.117  1.00 32.92      A16S
ATOM  16015  P   A   A 766     169.972  97.979 -52.101  1.00 30.27      A16S
ATOM  16016  O1P A   A 766     169.523  98.306 -53.466  1.00 16.67      A16S
ATOM  16017  O2P A   A 766     170.278  96.564 -51.728  1.00 16.67      A16S
ATOM  16018  O5* A   A 766     171.270  98.815 -51.752  1.00 30.27      A16S
ATOM  16019  C5* A   A 766     171.249 100.228 -51.801  1.00 30.27      A16S
ATOM  16020  C4* A   A 766     172.395 100.791 -51.009  1.00 30.27      A16S
ATOM  16021  O4* A   A 766     172.091 100.844 -49.592  1.00 30.27      A16S
ATOM  16022  C1* A   A 766     173.305 100.921 -48.874  1.00 30.27      A16S
ATOM  16023  N9  A   A 766     173.342  99.919 -47.818  1.00 16.67      A16S
ATOM  16024  C4  A   A 766     174.323  99.883 -46.868  1.00 16.67      A16S
ATOM  16025  N3  A   A 766     175.363 100.711 -46.767  1.00 16.67      A16S
ATOM  16026  C2  A   A 766     176.112 100.389 -45.741  1.00 16.67      A16S
ATOM  16027  N1  A   A 766     175.954  99.407 -44.866  1.00 16.67      A16S
ATOM  16028  C6  A   A 766     174.895  98.584 -44.996  1.00 16.67      A16S
ATOM  16029  N6  A   A 766     174.749  97.582 -44.121  1.00 16.67      A16S
ATOM  16030  C5  A   A 766     174.021  98.828 -46.049  1.00 16.67      A16S
ATOM  16031  N7  A   A 766     172.864  98.194 -46.471  1.00 16.67      A16S
ATOM  16032  C8  A   A 766     172.507  98.880 -47.533  1.00 16.67      A16S
ATOM  16033  C2* A   A 766     174.435 100.677 -49.860  1.00 30.27      A16S
ATOM  16034  O2* A   A 766     174.971 101.945 -50.180  1.00 30.27      A16S
ATOM  16035  C3* A   A 766     173.695 100.018 -51.013  1.00 30.27      A16S
ATOM  16036  O3* A   A 766     174.413 100.070 -52.225  1.00 30.27      A16S
ATOM  16037  P   A   A 767     175.218  98.761 -52.696  1.00 47.10      A16S
ATOM  16038  O1P A   A 767     175.910  99.120 -53.968  1.00 32.06      A16S
ATOM  16039  O2P A   A 767     174.324  97.578 -52.661  1.00 32.06      A16S
ATOM  16040  O5* A   A 767     176.282  98.532 -51.530  1.00 47.10      A16S
ATOM  16041  C5* A   A 767     177.415  99.401 -51.391  1.00 47.10      A16S
ATOM  16042  C4* A   A 767     178.279  98.950 -50.250  1.00 47.10      A16S
ATOM  16043  O4* A   A 767     177.509  99.036 -49.025  1.00 47.10      A16S
ATOM  16044  C1* A   A 767     177.853  97.968 -48.167  1.00 47.10      A16S
ATOM  16045  N9  A   A 767     176.675  97.119 -48.031  1.00 32.06      A16S
ATOM  16046  C4  A   A 767     176.452  96.153 -47.084  1.00 32.06      A16S
ATOM  16047  N3  A   A 767     177.244  95.820 -46.059  1.00 32.06      A16S
ATOM  16048  C2  A   A 767     176.707  94.826 -45.360  1.00 32.06      A16S
ATOM  16049  N1  A   A 767     175.565  94.177 -45.561  1.00 32.06      A16S
ATOM  16050  C6  A   A 767     174.805  94.535 -46.612  1.00 32.06      A16S
ATOM  16051  N6  A   A 767     173.679  93.878 -46.834  1.00 32.06      A16S
ATOM  16052  C5  A   A 767     175.251  95.574 -47.414  1.00 32.06      A16S
ATOM  16053  N7  A   A 767     174.709  96.173 -48.534  1.00 32.06      A16S
ATOM  16054  C8  A   A 767     175.585  97.092 -48.853  1.00 32.06      A16S
ATOM  16055  C2* A   A 767     179.004  97.211 -48.835  1.00 47.10      A16S
ATOM  16056  O2* A   A 767     180.217  97.785 -48.408  1.00 47.10      A16S
ATOM  16057  C3* A   A 767     178.757  97.509 -50.305  1.00 47.10      A16S
ATOM  16058  O3* A   A 767     179.930  97.369 -51.102  1.00 47.10      A16S
ATOM  16059  P   A   A 768     180.176  96.008 -51.943  1.00 25.63      A16S
ATOM  16060  O1P A   A 768     181.442  96.173 -52.708  1.00 35.05      A16S
ATOM  16061  O2P A   A 768     178.933  95.642 -52.681  1.00 35.05      A16S
ATOM  16062  O5* A   A 768     180.418  94.927 -50.803  1.00 25.63      A16S
ATOM  16063  C5* A   A 768     181.563  95.015 -49.965  1.00 25.63      A16S
ATOM  16064  C4* A   A 768     181.411  94.105 -48.786  1.00 25.63      A16S
ATOM  16065  O4* A   A 768     180.218  94.457 -48.057  1.00 25.63      A16S
ATOM  16066  C1* A   A 768     179.619  93.295 -47.533  1.00 25.63      A16S
ATOM  16067  N9  A   A 768     178.296  93.188 -48.127  1.00 35.05      A16S
ATOM  16068  C4  A   A 768     177.291  92.327 -47.769  1.00 35.05      A16S
ATOM  16069  N3  A   A 768     177.308  91.418 -46.788  1.00 35.05      A16S
ATOM  16070  C2  A   A 768     176.152  90.756 -46.744  1.00 35.05      A16S
ATOM  16071  N1  A   A 768     175.077  90.882 -47.520  1.00 35.05      A16S
ATOM  16072  C6  A   A 768     175.106  91.791 -48.508  1.00 35.05      A16S
ATOM  16073  N6  A   A 768     174.055  91.884 -49.319  1.00 35.05      A16S
ATOM  16074  C5  A   A 768     176.254  92.576 -48.640  1.00 35.05      A16S
ATOM  16075  N7  A   A 768     176.589  93.597 -49.521  1.00 35.05      A16S
ATOM  16076  C8  A   A 768     177.807  93.923 -49.175  1.00 35.05      A16S
ATOM  16077  C2* A   A 768     180.520  92.116 -47.891  1.00 25.63      A16S
ATOM  16078  O2* A   A 768     181.423  91.904 -46.827  1.00 25.63      A16S
ATOM  16079  C3* A   A 768     181.233  92.645 -49.121  1.00 25.63      A16S
ATOM  16080  O3* A   A 768     182.497  92.050 -49.294  1.00 25.63      A16S
ATOM  16081  P   G   A 769     182.730  91.044 -50.509  1.00 29.83      A16S
ATOM  16082  O1P G   A 769     184.115  90.544 -50.391  1.00 21.71      A16S
ATOM  16083  O2P G   A 769     182.288  91.683 -51.772  1.00 21.71      A16S
ATOM  16084  O5* G   A 769     181.734  89.859 -50.156  1.00 29.83      A16S
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ATOM  16085  C5* G   A 769     181.883  89.161 -48.940  1.00 29.83      A16S
ATOM  16086  C4* G   A 769     180.670  88.330 -48.664  1.00 29.83      A16S
ATOM  16087  O4* G   A 769     179.505  89.182 -48.564  1.00 29.83      A16S
ATOM  16088  C1* G   A 769     178.336  88.425 -48.843  1.00 29.83      A16S
ATOM  16089  N9  G   A 769     177.594  89.076 -49.914  1.00 21.71      A16S
ATOM  16090  C4  G   A 769     176.419  88.635 -50.472  1.00 21.71      A16S
ATOM  16091  N3  G   A 769     175.752  87.516 -50.134  1.00 21.71      A16S
ATOM  16092  C2  G   A 769     174.657  87.358 -50.856  1.00 21.71      A16S
ATOM  16093  N2  G   A 769     173.886  86.285 -50.666  1.00 21.71      A16S
ATOM  16094  N1  G   A 769     174.248  88.229 -51.818  1.00 21.71      A16S
ATOM  16095  C6  G   A 769     174.927  89.378 -52.185  1.00 21.71      A16S
ATOM  16096  O6  G   A 769     174.484  90.090 -53.084  1.00 21.71      A16S
ATOM  16097  C5  G   A 769     176.099  89.560 -51.427  1.00 21.71      A16S
ATOM  16098  N7  G   A 769     177.053  90.568 -51.477  1.00 21.71      A16S
ATOM  16099  C8  G   A 769     177.919  90.237 -50.563  1.00 21.71      A16S
ATOM  16100  C2* G   A 769     178.796  87.030 -49.238  1.00 29.83      A16S
ATOM  16101  O2* G   A 769     178.735  86.250 -48.063  1.00 29.83      A16S
ATOM  16102  C3* G   A 769     180.229  87.304 -49.687  1.00 29.83      A16S
ATOM  16103  O3* G   A 769     181.034  86.143 -49.689  1.00 29.83      A16S
ATOM  16104  P   C   A 770     181.434  85.482 -51.096  1.00 37.03      A16S
ATOM  16105  O1P C   A 770     182.574  84.529 -50.881  1.00 34.49      A16S
ATOM  16106  O2P C   A 770     181.567  86.575 -52.095  1.00 34.49      A16S
ATOM  16107  O5* C   A 770     180.134  84.653 -51.469  1.00 37.03      A16S
ATOM  16108  C5* C   A 770     179.594  83.734 -50.530  1.00 37.03      A16S
ATOM  16109  C4* C   A 770     178.286  83.192 -51.020  1.00 37.03      A16S
ATOM  16110  O4* C   A 770     177.266  84.222 -50.980  1.00 37.03      A16S
ATOM  16111  C1* C   A 770     176.287  83.944 -51.965  1.00 37.03      A16S
ATOM  16112  N1  C   A 770     176.151  85.101 -52.856  1.00 34.49      A16S
ATOM  16113  C6  C   A 770     176.998  86.170 -52.782  1.00 34.49      A16S
ATOM  16114  C2  C   A 770     175.129  85.084 -53.787  1.00 34.49      A16S
ATOM  16115  O2  C   A 770     174.383  84.105 -53.820  1.00 34.49      A16S
ATOM  16116  N3  C   A 770     174.974  86.130 -54.625  1.00 34.49      A16S
ATOM  16117  C4  C   A 770     175.795  87.175 -54.538  1.00 34.49      A16S
ATOM  16118  N4  C   A 770     175.591  88.192 -55.357  1.00 34.49      A16S
ATOM  16119  C5  C   A 770     176.853  87.222 -53.598  1.00 34.49      A16S
ATOM  16120  C2* C   A 770     176.733  82.696 -52.727  1.00 37.03      A16S
ATOM  16121  O2* C   A 770     176.072  81.566 -52.186  1.00 37.03      A16S
ATOM  16122  C3* C   A 770     178.231  82.690 -52.449  1.00 37.03      A16S
ATOM  16123  O3* C   A 770     178.808  81.408 -52.607  1.00 37.03      A16S
ATOM  16124  P   G   A 771     179.558  81.049 -53.985  1.00 46.34      A16S
ATOM  16125  O1P G   A 771     180.251  79.768 -53.733  1.00 32.45      A16S
ATOM  16126  O2P G   A 771     180.319  82.218 -54.473  1.00 32.45      A16S
ATOM  16127  O5* G   A 771     178.374  80.791 -55.014  1.00 46.34      A16S
ATOM  16128  C5* G   A 771     177.450  79.710 -54.800  1.00 46.34      A16S
ATOM  16129  C4* G   A 771     176.474  79.626 -55.941  1.00 46.34      A16S
ATOM  16130  O4* G   A 771     175.553  80.745 -55.904  1.00 46.34      A16S
ATOM  16131  C1* G   A 771     175.172  81.092 -57.223  1.00 46.34      A16S
ATOM  16132  N9  G   A 771     175.454  82.507 -57.446  1.00 32.45      A16S
ATOM  16133  C4  G   A 771     174.808  83.317 -58.337  1.00 32.45      A16S
ATOM  16134  N3  G   A 771     173.800  82.947 -59.136  1.00 32.45      A16S
ATOM  16135  C2  G   A 771     173.411  83.924 -59.925  1.00 32.45      A16S
ATOM  16136  N2  G   A 771     172.430  83.707 -60.813  1.00 32.45      A16S
ATOM  16137  N1  G   A 771     173.953  85.176 -59.914  1.00 32.45      A16S
ATOM  16138  C6  G   A 771     174.988  85.587 -59.093  1.00 32.45      A16S
ATOM  16139  O6  G   A 771     175.411  86.749 -59.173  1.00 32.45      A16S
ATOM  16140  C5  G   A 771     175.426  84.538 -58.246  1.00 32.45      A16S
ATOM  16141  N7  G   A 771     176.433  84.509 -57.291  1.00 32.45      A16S
ATOM  16142  C8  G   A 771     176.407  83.284 -56.838  1.00 32.45      A16S
ATOM  16143  C2* G   A 771     175.936  80.179 -58.182  1.00 46.34      A16S
ATOM  16144  O2* G   A 771     175.140  79.072 -58.544  1.00 46.34      A16S
ATOM  16145  C3* G   A 771     177.097  79.731 -57.314  1.00 46.34      A16S
ATOM  16146  O3* G   A 771     177.650  78.516 -57.752  1.00 46.34      A16S
ATOM  16147  P   U   A 772     178.844  78.559 -58.815  1.00 42.28      A16S
ATOM  16148  O1P U   A 772     179.334  77.151 -58.859  1.00 48.06      A16S
ATOM  16149  O2P U   A 772     179.785  79.658 -58.479  1.00 48.06      A16S
ATOM  16150  O5* U   A 772     178.113  78.995 -60.165  1.00 42.28      A16S
ATOM  16151  C5* U   A 772     177.212  78.091 -60.814  1.00 42.28      A16S
ATOM  16152  C4* U   A 772     176.661  78.704 -62.064  1.00 42.28      A16S
ATOM  16153  O4* U   A 772     175.772  79.782 -61.708  1.00 42.28      A16S
ATOM  16154  C1* U   A 772     175.837  80.799 -62.690  1.00 42.28      A16S
ATOM  16155  N1  U   A 772     176.327  82.025 -62.047  1.00 48.06      A16S
ATOM  16156  C6  U   A 772     177.069  81.971 -60.899  1.00 48.06      A16S
ATOM  16157  C2  U   A 772     176.033  83.237 -62.644  1.00 48.06      A16S
ATOM  16158  O2  U   A 772     175.346  83.334 -63.635  1.00 48.06      A16S
ATOM  16159  N3  U   A 772     176.568  84.333 -62.028  1.00 48.06      A16S
ATOM  16160  C4  U   A 772     177.329  84.345 -60.895  1.00 48.06      A16S
ATOM  16161  O4  U   A 772     177.746  85.414 -60.463  1.00 48.06      A16S
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ATOM  16162  C5  U  A 772     177.563  83.061 -60.317  1.00 48.06      A16S
ATOM  16163  C2* U  A 772     176.800  80.326 -63.775  1.00 42.28      A16S
ATOM  16164  O2* U  A 772     176.085  79.678 -64.804  1.00 42.28      A16S
ATOM  16165  C3* U  A 772     177.664  79.348 -63.000  1.00 42.28      A16S
ATOM  16166  O3* U  A 772     178.323  78.436 -63.858  1.00 42.28      A16S
ATOM  16167  P   G  A 773     179.809  78.779 -64.364  1.00 57.63      A16S
ATOM  16168  O1P G  A 773     180.218  77.637 -65.217  1.00 54.53      A16S
ATOM  16169  O2P G  A 773     180.671  79.190 -63.215  1.00 54.53      A16S
ATOM  16170  O5* G  A 773     179.610  80.049 -65.296  1.00 57.63      A16S
ATOM  16171  C5* G  A 773     178.967  79.903 -66.548  1.00 57.63      A16S
ATOM  16172  C4* G  A 773     178.743  81.240 -67.193  1.00 57.63      A16S
ATOM  16173  O4* G  A 773     177.964  82.090 -66.314  1.00 57.63      A16S
ATOM  16174  C1* G  A 773     178.180  83.443 -66.670  1.00 57.63      A16S
ATOM  16175  N9  G  A 773     178.614  84.211 -65.503  1.00 54.53      A16S
ATOM  16176  C4  G  A 773     178.521  85.574 -65.384  1.00 54.53      A16S
ATOM  16177  N3  G  A 773     177.966  86.406 -66.288  1.00 54.53      A16S
ATOM  16178  C2  G  A 773     178.041  87.660 -65.909  1.00 54.53      A16S
ATOM  16179  N2  G  A 773     177.511  88.612 -66.676  1.00 54.53      A16S
ATOM  16180  N1  G  A 773     178.638  88.069 -64.746  1.00 54.53      A16S
ATOM  16181  C6  G  A 773     179.229  87.227 -63.813  1.00 54.53      A16S
ATOM  16182  O6  G  A 773     179.768  87.700 -62.818  1.00 54.53      A16S
ATOM  16183  C5  G  A 773     179.126  85.880 -64.190  1.00 54.53      A16S
ATOM  16184  N7  G  A 773     179.561  84.732 -63.546  1.00 54.53      A16S
ATOM  16185  C8  G  A 773     179.227  83.763 -64.356  1.00 54.53      A16S
ATOM  16186  C2* G  A 773     179.268  83.456 -67.742  1.00 57.63      A16S
ATOM  16187  O2* G  A 773     178.659  83.536 -69.017  1.00 57.63      A16S
ATOM  16188  C3* G  A 773     179.937  82.111 -67.522  1.00 57.63      A16S
ATOM  16189  O3* G  A 773     180.602  81.715 -68.699  1.00 57.63      A16S
ATOM  16190  P   G  A 774     182.154  82.102 -68.900  1.00 61.94      A16S
ATOM  16191  O1P G  A 774     182.491  81.525 -70.242  1.00 34.30      A16S
ATOM  16192  O2P G  A 774     182.928  81.669 -67.699  1.00 34.30      A16S
ATOM  16193  O5* G  A 774     182.173  83.703 -68.960  1.00 61.94      A16S
ATOM  16194  C5* G  A 774     181.606  84.379 -70.090  1.00 61.94      A16S
ATOM  16195  C4* G  A 774     181.558  85.881 -69.891  1.00 61.94      A16S
ATOM  16196  O4* G  A 774     180.759  86.233 -68.731  1.00 61.94      A16S
ATOM  16197  C1* G  A 774     181.116  87.537 -68.294  1.00 61.94      A16S
ATOM  16198  N9  G  A 774     181.508  87.511 -66.884  1.00 34.30      A16S
ATOM  16199  C4  G  A 774     181.693  88.615 -66.073  1.00 34.30      A16S
ATOM  16200  N3  G  A 774     181.518  89.899 -66.431  1.00 34.30      A16S
ATOM  16201  C2  G  A 774     181.759  90.722 -65.435  1.00 34.30      A16S
ATOM  16202  N2  G  A 774     181.600  92.020 -65.612  1.00 34.30      A16S
ATOM  16203  N1  G  A 774     182.161  90.332 -64.193  1.00 34.30      A16S
ATOM  16204  C6  G  A 774     182.345  89.017 -63.794  1.00 34.30      A16S
ATOM  16205  O6  G  A 774     182.697  88.764 -62.631  1.00 34.30      A16S
ATOM  16206  C5  G  A 774     182.076  88.112 -64.853  1.00 34.30      A16S
ATOM  16207  N7  G  A 774     182.122  86.727 -64.884  1.00 34.30      A16S
ATOM  16208  C8  G  A 774     181.779  86.415 -66.105  1.00 34.30      A16S
ATOM  16209  C2* G  A 774     182.275  88.002 -69.168  1.00 61.94      A16S
ATOM  16210  O2* G  A 774     181.750  88.824 -70.194  1.00 61.94      A16S
ATOM  16211  C3* G  A 774     182.832  86.677 -69.682  1.00 61.94      A16S
ATOM  16212  O3* G  A 774     183.606  86.887 -70.858  1.00 61.94      A16S
ATOM  16213  P   G  A 775     185.179  87.229 -70.716  1.00 49.45      A16S
ATOM  16214  O1P G  A 775     185.731  87.557 -72.053  1.00 34.61      A16S
ATOM  16215  O2P G  A 775     185.807  86.155 -69.915  1.00 34.61      A16S
ATOM  16216  O5* G  A 775     185.200  88.600 -69.910  1.00 49.45      A16S
ATOM  16217  C5* G  A 775     184.745  89.809 -70.548  1.00 49.45      A16S
ATOM  16218  C4* G  A 775     184.787  90.972 -69.589  1.00 49.45      A16S
ATOM  16219  O4* G  A 775     183.975  90.673 -68.431  1.00 49.45      A16S
ATOM  16220  C1* G  A 775     184.542  91.272 -67.284  1.00 49.45      A16S
ATOM  16221  N9  G  A 775     184.914  90.217 -66.358  1.00 34.61      A16S
ATOM  16222  C4  G  A 775     185.298  90.392 -65.061  1.00 34.61      A16S
ATOM  16223  N3  G  A 775     185.359  91.568 -64.413  1.00 34.61      A16S
ATOM  16224  C2  G  A 775     185.763  91.419 -63.171  1.00 34.61      A16S
ATOM  16225  N2  G  A 775     185.862  92.493 -62.371  1.00 34.61      A16S
ATOM  16226  N1  G  A 775     186.095  90.212 -62.620  1.00 34.61      A16S
ATOM  16227  C6  G  A 775     186.051  88.994 -63.283  1.00 34.61      A16S
ATOM  16228  O6  G  A 775     186.396  87.960 -62.704  1.00 34.61      A16S
ATOM  16229  C5  G  A 775     185.602  89.140 -64.599  1.00 34.61      A16S
ATOM  16230  N7  G  A 775     185.394  88.188 -65.584  1.00 34.61      A16S
ATOM  16231  C8  G  A 775     184.980  88.873 -66.610  1.00 34.61      A16S
ATOM  16232  C2* G  A 775     185.776  92.045 -67.727  1.00 49.45      A16S
ATOM  16233  O2* G  A 775     185.393  93.377 -67.962  1.00 49.45      A16S
ATOM  16234  C3* G  A 775     186.143  91.312 -69.005  1.00 49.45      A16S
ATOM  16235  O3* G  A 775     186.888  92.118 -69.888  1.00 49.45      A16S
ATOM  16236  P   G  A 776     188.476  91.932 -69.966  1.00 50.62      A16S
ATOM  16237  O1P G  A 776     188.806  90.481 -69.937  1.00 40.24      A16S
ATOM  16238  O2P G  A 776     188.937  92.781 -71.098  1.00 40.24      A16S
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ATOM  16239  O5*  G   A 776     188.995  92.559 -68.605  1.00 50.62      A16S
ATOM  16240  C5*  G   A 776     188.625  93.883 -68.231  1.00 50.62      A16S
ATOM  16241  C4*  G   A 776     189.046  94.150 -66.814  1.00 50.62      A16S
ATOM  16242  O4*  G   A 776     188.272  93.351 -65.883  1.00 50.62      A16S
ATOM  16243  C1*  G   A 776     189.058  93.038 -64.754  1.00 50.62      A16S
ATOM  16244  N9   G   A 776     189.092  91.592 -64.628  1.00 40.24      A16S
ATOM  16245  C4   G   A 776     189.310  90.859 -63.485  1.00 40.24      A16S
ATOM  16246  N3   G   A 776     189.530  91.349 -62.252  1.00 40.24      A16S
ATOM  16247  C2   G   A 776     189.688  90.377 -61.361  1.00 40.24      A16S
ATOM  16248  N2   G   A 776     189.912  90.665 -60.068  1.00 40.24      A16S
ATOM  16249  N1   G   A 776     189.638  89.055 -61.663  1.00 40.24      A16S
ATOM  16250  C6   G   A 776     189.416  88.540 -62.920  1.00 40.24      A16S
ATOM  16251  O6   G   A 776     189.391  87.331 -63.081  1.00 40.24      A16S
ATOM  16252  C5   G   A 776     189.241  89.549 -63.876  1.00 40.24      A16S
ATOM  16253  N7   G   A 776     188.983  89.453 -65.233  1.00 40.24      A16S
ATOM  16254  C8   G   A 776     188.904  90.689 -65.635  1.00 40.24      A16S
ATOM  16255  C2*  G   A 776     190.430  93.668 -64.968  1.00 50.62      A16S
ATOM  16256  O2*  G   A 776     190.396  94.922 -64.324  1.00 50.62      A16S
ATOM  16257  C3*  G   A 776     190.479  93.806 -66.487  1.00 50.62      A16S
ATOM  16258  O3*  G   A 776     191.307  94.855 -66.946  1.00 50.62      A16S
ATOM  16259  P    A   A 777     192.866  94.588 -67.231  1.00 38.14      A16S
ATOM  16260  O1P  A   A 777     193.306  93.351 -66.563  1.00 49.65      A16S
ATOM  16261  O2P  A   A 777     193.090  94.743 -68.696  1.00 49.65      A16S
ATOM  16262  O5*  A   A 777     193.516  95.816 -66.449  1.00 38.14      A16S
ATOM  16263  C5*  A   A 777     194.267  96.813 -67.153  1.00 38.14      A16S
ATOM  16264  C4*  A   A 777     193.944  98.218 -66.669  1.00 38.14      A16S
ATOM  16265  O4*  A   A 777     192.567  98.562 -66.944  1.00 38.14      A16S
ATOM  16266  C1*  A   A 777     192.168  99.592 -66.066  1.00 38.14      A16S
ATOM  16267  N9   A   A 777     191.094  99.091 -65.211  1.00 49.65      A16S
ATOM  16268  C4   A   A 777     190.323  99.867 -64.380  1.00 49.65      A16S
ATOM  16269  N3   A   A 777     190.383 101.199 -64.227  1.00 49.65      A16S
ATOM  16270  C2   A   A 777     189.502 101.606 -63.319  1.00 49.65      A16S
ATOM  16271  N1   A   A 777     188.637 100.885 -62.595  1.00 49.65      A16S
ATOM  16272  C6   A   A 777     188.610  99.547 -62.768  1.00 49.65      A16S
ATOM  16273  N6   A   A 777     187.768  98.829 -62.033  1.00 49.65      A16S
ATOM  16274  C5   A   A 777     189.487  98.992 -63.713  1.00 49.65      A16S
ATOM  16275  N7   A   A 777     189.706  97.685 -64.134  1.00 49.65      A16S
ATOM  16276  C8   A   A 777     190.663  97.798 -65.025  1.00 49.65      A16S
ATOM  16277  C2*  A   A 777     193.378  99.943 -65.206  1.00 38.14      A16S
ATOM  16278  O2*  A   A 777     194.114 100.940 -65.878  1.00 38.14      A16S
ATOM  16279  C3*  A   A 777     194.163  98.646 -65.223  1.00 38.14      A16S
ATOM  16280  O3*  A   A 777     195.522  98.985 -64.965  1.00 38.14      A16S
ATOM  16281  P    G   A 778     196.204  98.608 -63.550  1.00 43.07      A16S
ATOM  16282  O1P  G   A 778     197.653  98.866 -63.735  1.00 47.01      A16S
ATOM  16283  O2P  G   A 778     195.748  97.265 -63.098  1.00 47.01      A16S
ATOM  16284  O5*  G   A 778     195.646  99.671 -62.502  1.00 43.07      A16S
ATOM  16285  C5*  G   A 778     195.618 101.089 -62.774  1.00 43.07      A16S
ATOM  16286  C4*  G   A 778     194.589 101.758 -61.879  1.00 43.07      A16S
ATOM  16287  O4*  G   A 778     193.252 101.430 -62.333  1.00 43.07      A16S
ATOM  16288  C1*  G   A 778     192.416 101.194 -61.222  1.00 43.07      A16S
ATOM  16289  N9   G   A 778     191.984  99.808 -61.280  1.00 47.01      A16S
ATOM  16290  C4   G   A 778     190.989  99.241 -60.532  1.00 47.01      A16S
ATOM  16291  N3   G   A 778     190.234  99.877 -59.616  1.00 47.01      A16S
ATOM  16292  C2   G   A 778     189.390  99.065 -59.035  1.00 47.01      A16S
ATOM  16293  N2   G   A 778     188.583  99.536 -58.093  1.00 47.01      A16S
ATOM  16294  N1   G   A 778     189.277  97.732 -59.331  1.00 47.01      A16S
ATOM  16295  C6   G   A 778     190.028  97.059 -60.284  1.00 47.01      A16S
ATOM  16296  O6   G   A 778     189.837  95.847 -60.488  1.00 47.01      A16S
ATOM  16297  C5   G   A 778     190.954  97.923 -60.910  1.00 47.01      A16S
ATOM  16298  N7   G   A 778     191.905  97.667 -61.889  1.00 47.01      A16S
ATOM  16299  C8   G   A 778     192.488  98.814 -62.077  1.00 47.01      A16S
ATOM  16300  C2*  G   A 778     193.208 101.479 -59.949  1.00 43.07      A16S
ATOM  16301  O2*  G   A 778     192.959 102.793 -59.498  1.00 43.07      A16S
ATOM  16302  C3*  G   A 778     194.633 101.296 -60.431  1.00 43.07      A16S
ATOM  16303  O3*  G   A 778     195.499 102.105 -59.683  1.00 43.07      A16S
ATOM  16304  P    C   A 779     196.260 101.485 -58.432  1.00 36.75      A16S
ATOM  16305  O1P  C   A 779     197.157 102.574 -57.997  1.00 37.04      A16S
ATOM  16306  O2P  C   A 779     196.815 100.169 -58.813  1.00 37.04      A16S
ATOM  16307  O5*  C   A 779     195.129 101.191 -57.349  1.00 36.75      A16S
ATOM  16308  C5*  C   A 779     194.391 102.259 -56.694  1.00 36.75      A16S
ATOM  16309  C4*  C   A 779     193.313 101.676 -55.807  1.00 36.75      A16S
ATOM  16310  O4*  C   A 779     192.386 100.923 -56.625  1.00 36.75      A16S
ATOM  16311  C1*  C   A 779     191.911  99.812 -55.899  1.00 36.75      A16S
ATOM  16312  N1   C   A 779     192.064  98.606 -56.718  1.00 37.04      A16S
ATOM  16313  C6   C   A 779     192.888  98.591 -57.805  1.00 37.04      A16S
ATOM  16314  C2   C   A 779     191.353  97.458 -56.361  1.00 37.04      A16S
ATOM  16315  O2   C   A 779     190.607  97.499 -55.391  1.00 37.04      A16S
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ATOM  16316  N3   C   A 779     191.502  96.332 -57.083  1.00 37.04      A16S
ATOM  16317  C4   C   A 779     192.325  96.319 -58.120  1.00 37.04      A16S
ATOM  16318  N4   C   A 779     192.466  95.181 -58.774  1.00 37.04      A16S
ATOM  16319  C5   C   A 779     193.047  97.475 -58.526  1.00 37.04      A16S
ATOM  16320  C2*  C   A 779     192.620  99.766 -54.544  1.00 36.75      A16S
ATOM  16321  O2*  C   A 779     191.746 100.251 -53.551  1.00 36.75      A16S
ATOM  16322  C3*  C   A 779     193.813 100.685 -54.769  1.00 36.75      A16S
ATOM  16323  O3*  C   A 779     194.169 101.387 -53.581  1.00 36.75      A16S
ATOM  16324  P    A   A 780     195.085 100.675 -52.466  1.00 24.03      A16S
ATOM  16325  O1P  A   A 780     195.121 101.574 -51.285  1.00 43.33      A16S
ATOM  16326  O2P  A   A 780     196.366 100.251 -53.099  1.00 43.33      A16S
ATOM  16327  O5*  A   A 780     194.272  99.362 -52.084  1.00 24.03      A16S
ATOM  16328  C5*  A   A 780     193.186  99.413 -51.152  1.00 24.03      A16S
ATOM  16329  C4*  A   A 780     192.573  98.053 -51.002  1.00 24.03      A16S
ATOM  16330  O4*  A   A 780     192.164  97.592 -52.304  1.00 24.03      A16S
ATOM  16331  C1*  A   A 780     192.347  96.196 -52.402  1.00 24.03      A16S
ATOM  16332  N9   A   A 780     193.167  95.930 -53.571  1.00 43.33      A16S
ATOM  16333  C4   A   A 780     193.061  94.854 -54.409  1.00 43.33      A16S
ATOM  16334  N3   A   A 780     192.169  93.855 -54.347  1.00 43.33      A16S
ATOM  16335  C2   A   A 780     192.377  92.986 -55.322  1.00 43.33      A16S
ATOM  16336  N1   A   A 780     193.312  92.992 -56.268  1.00 43.33      A16S
ATOM  16337  C6   A   A 780     194.196  94.010 -56.293  1.00 43.33      A16S
ATOM  16338  N6   A   A 780     195.149  94.017 -57.219  1.00 43.33      A16S
ATOM  16339  C5   A   A 780     194.068  95.002 -55.334  1.00 43.33      A16S
ATOM  16340  N7   A   A 780     194.781  96.169 -55.105  1.00 43.33      A16S
ATOM  16341  C8   A   A 780     194.203  96.682 -54.051  1.00 43.33      A16S
ATOM  16342  C2*  A   A 780     192.964  95.703 -51.095  1.00 24.03      A16S
ATOM  16343  O2*  A   A 780     191.977  95.086 -50.301  1.00 24.03      A16S
ATOM  16344  C3*  A   A 780     193.516  96.990 -50.495  1.00 24.03      A16S
ATOM  16345  O3*  A   A 780     193.466  96.989 -49.088  1.00 24.03      A16S
ATOM  16346  P    A   A 781     194.219  95.839 -48.265  1.00 21.87      A16S
ATOM  16347  O1P  A   A 781     194.424  96.348 -46.876  1.00 51.31      A16S
ATOM  16348  O2P  A   A 781     195.397  95.377 -49.048  1.00 51.31      A16S
ATOM  16349  O5*  A   A 781     193.133  94.686 -48.200  1.00 21.87      A16S
ATOM  16350  C5*  A   A 781     193.321  93.581 -47.351  1.00 21.87      A16S
ATOM  16351  C4*  A   A 781     192.049  93.267 -46.642  1.00 21.87      A16S
ATOM  16352  O4*  A   A 781     190.993  93.064 -47.611  1.00 21.87      A16S
ATOM  16353  C1*  A   A 781     190.181  91.973 -47.215  1.00 21.87      A16S
ATOM  16354  N9   A   A 781     190.358  90.911 -48.196  1.00 51.31      A16S
ATOM  16355  C4   A   A 781     189.791  89.664 -48.153  1.00 51.31      A16S
ATOM  16356  N3   A   A 781     188.936  89.185 -47.230  1.00 51.31      A16S
ATOM  16357  C2   A   A 781     188.617  87.921 -47.501  1.00 51.31      A16S
ATOM  16358  N1   A   A 781     189.025  87.145 -48.511  1.00 51.31      A16S
ATOM  16359  C6   A   A 781     189.888  87.667 -49.419  1.00 51.31      A16S
ATOM  16360  N6   A   A 781     190.314  86.902 -50.427  1.00 51.31      A16S
ATOM  16361  C5   A   A 781     190.295  88.989 -49.246  1.00 51.31      A16S
ATOM  16362  N7   A   A 781     191.142  89.803 -49.982  1.00 51.31      A16S
ATOM  16363  C8   A   A 781     191.141  90.930 -49.322  1.00 51.31      A16S
ATOM  16364  C2*  A   A 781     190.659  91.528 -45.834  1.00 21.87      A16S
ATOM  16365  O2*  A   A 781     189.888  92.216 -44.879  1.00 21.87      A16S
ATOM  16366  C3*  A   A 781     192.112  91.978 -45.855  1.00 21.87      A16S
ATOM  16367  O3*  A   A 781     192.642  92.243 -44.576  1.00 21.87      A16S
ATOM  16368  P    A   A 782     194.102  91.731 -44.220  1.00 35.04      A16S
ATOM  16369  O1P  A   A 782     194.253  91.693 -42.753  1.00 44.64      A16S
ATOM  16370  O2P  A   A 782     195.057  92.512 -45.029  1.00 44.64      A16S
ATOM  16371  O5*  A   A 782     194.066  90.231 -44.719  1.00 35.04      A16S
ATOM  16372  C5*  A   A 782     193.046  89.348 -44.269  1.00 35.04      A16S
ATOM  16373  C4*  A   A 782     193.066  88.083 -45.085  1.00 35.04      A16S
ATOM  16374  O4*  A   A 782     192.625  88.348 -46.440  1.00 35.04      A16S
ATOM  16375  C1*  A   A 782     193.290  87.478 -47.335  1.00 35.04      A16S
ATOM  16376  N9   A   A 782     194.022  88.274 -48.319  1.00 44.64      A16S
ATOM  16377  C4   A   A 782     194.486  87.824 -49.531  1.00 44.64      A16S
ATOM  16378  N3   A   A 782     194.344  86.597 -50.053  1.00 44.64      A16S
ATOM  16379  C2   A   A 782     194.939  86.523 -51.240  1.00 44.64      A16S
ATOM  16380  N1   A   A 782     195.611  87.460 -51.909  1.00 44.64      A16S
ATOM  16381  C6   A   A 782     195.738  88.683 -51.348  1.00 44.64      A16S
ATOM  16382  N6   A   A 782     196.425  89.621 -52.001  1.00 44.64      A16S
ATOM  16383  C5   A   A 782     195.145  88.894 -50.102  1.00 44.64      A16S
ATOM  16384  N7   A   A 782     195.086  90.005 -49.278  1.00 44.64      A16S
ATOM  16385  C8   A   A 782     194.409  89.587 -48.238  1.00 44.64      A16S
ATOM  16386  C2*  A   A 782     194.221  86.596 -46.509  1.00 35.04      A16S
ATOM  16387  O2*  A   A 782     193.551  85.392 -46.213  1.00 35.04      A16S
ATOM  16388  C3*  A   A 782     194.426  87.441 -45.262  1.00 35.04      A16S
ATOM  16389  O3*  A   A 782     194.806  86.671 -44.126  1.00 35.04      A16S
ATOM  16390  P    C   A 783     196.309  86.786 -43.568  1.00 35.48      A16S
ATOM  16391  O1P  C   A 783     196.516  85.741 -42.528  1.00 37.98      A16S
ATOM  16392  O2P  C   A 783     196.575  88.214 -43.250  1.00 37.98      A16S
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ATOM  16393  O5*  C   A 783     197.201  86.433 -44.832  1.00 35.48      A16S
ATOM  16394  C5*  C   A 783     197.115  85.153 -45.460  1.00 35.48      A16S
ATOM  16395  C4*  C   A 783     197.767  85.212 -46.811  1.00 35.48      A16S
ATOM  16396  O4*  C   A 783     197.117  86.241 -47.587  1.00 35.48      A16S
ATOM  16397  C1*  C   A 783     198.040  86.801 -48.493  1.00 35.48      A16S
ATOM  16398  N1   C   A 783     198.089  88.250 -48.314  1.00 37.98      A16S
ATOM  16399  C6   C   A 783     197.603  88.844 -47.188  1.00 37.98      A16S
ATOM  16400  C2   C   A 783     198.641  89.021 -49.336  1.00 37.98      A16S
ATOM  16401  O2   C   A 783     199.107  88.445 -50.335  1.00 37.98      A16S
ATOM  16402  N3   C   A 783     198.663  90.361 -49.214  1.00 37.98      A16S
ATOM  16403  C4   C   A 783     198.174  90.932 -48.120  1.00 37.98      A16S
ATOM  16404  N4   C   A 783     198.203  92.250 -48.045  1.00 37.98      A16S
ATOM  16405  C5   C   A 783     197.628  90.171 -47.052  1.00 37.98      A16S
ATOM  16406  C2*  C   A 783     199.392  86.155 -48.254  1.00 35.48      A16S
ATOM  16407  O2*  C   A 783     199.540  85.146 -49.236  1.00 35.48      A16S
ATOM  16408  C3*  C   A 783     199.228  85.623 -46.840  1.00 35.48      A16S
ATOM  16409  O3*  C   A 783     200.088  84.523 -46.600  1.00 35.48      A16S
ATOM  16410  P    C   A 784     201.568  84.791 -46.052  1.00 42.12      A16S
ATOM  16411  O1P  C   A 784     202.184  83.464 -45.799  1.00 41.10      A16S
ATOM  16412  O2P  C   A 784     201.468  85.780 -44.955  1.00 41.10      A16S
ATOM  16413  O5*  C   A 784     202.304  85.470 -47.283  1.00 42.12      A16S
ATOM  16414  C5*  C   A 784     202.582  84.706 -48.451  1.00 42.12      A16S
ATOM  16415  C4*  C   A 784     203.531  85.450 -49.338  1.00 42.12      A16S
ATOM  16416  O4*  C   A 784     202.853  86.546 -49.990  1.00 42.12      A16S
ATOM  16417  C1*  C   A 784     203.726  87.652 -50.099  1.00 42.12      A16S
ATOM  16418  N1   C   A 784     203.133  88.783 -49.370  1.00 41.10      A16S
ATOM  16419  C6   C   A 784     202.344  88.578 -48.275  1.00 41.10      A16S
ATOM  16420  C2   C   A 784     203.397  90.071 -49.809  1.00 41.10      A16S
ATOM  16421  O2   C   A 784     204.123  90.220 -50.785  1.00 41.10      A16S
ATOM  16422  N3   C   A 784     202.865  91.122 -49.154  1.00 41.10      A16S
ATOM  16423  C4   C   A 784     202.111  90.915 -48.075  1.00 41.10      A16S
ATOM  16424  N4   C   A 784     201.630  91.977 -47.431  1.00 41.10      A16S
ATOM  16425  C5   C   A 784     201.823  89.606 -47.601  1.00 41.10      A16S
ATOM  16426  C2*  C   A 784     205.078  87.233 -49.524  1.00 42.12      A16S
ATOM  16427  O2*  C   A 784     205.919  86.831 -50.577  1.00 42.12      A16S
ATOM  16428  C3*  C   A 784     204.680  86.090 -48.602  1.00 42.12      A16S
ATOM  16429  O3*  C   A 784     205.709  85.154 -48.367  1.00 42.12      A16S
ATOM  16430  P    G   A 785     206.748  85.417 -47.177  1.00 44.48      A16S
ATOM  16431  O1P  G   A 785     207.574  84.181 -47.061  1.00 41.19      A16S
ATOM  16432  O2P  G   A 785     206.028  85.922 -45.975  1.00 41.19      A16S
ATOM  16433  O5*  G   A 785     207.635  86.592 -47.777  1.00 44.48      A16S
ATOM  16434  C5*  G   A 785     207.954  87.744 -47.003  1.00 44.48      A16S
ATOM  16435  C4*  G   A 785     208.385  88.859 -47.910  1.00 44.48      A16S
ATOM  16436  O4*  G   A 785     207.233  89.447 -48.567  1.00 44.48      A16S
ATOM  16437  C1*  G   A 785     207.427  90.849 -48.713  1.00 44.48      A16S
ATOM  16438  N9   G   A 785     206.420  91.545 -47.914  1.00 41.19      A16S
ATOM  16439  C4   G   A 785     206.195  92.899 -47.877  1.00 41.19      A16S
ATOM  16440  N3   G   A 785     206.854  93.830 -48.586  1.00 41.19      A16S
ATOM  16441  C2   G   A 785     206.430  95.043 -48.311  1.00 41.19      A16S
ATOM  16442  N2   G   A 785     206.986  96.091 -48.897  1.00 41.19      A16S
ATOM  16443  N1   G   A 785     205.427  95.318 -47.430  1.00 41.19      A16S
ATOM  16444  C6   G   A 785     204.729  94.369 -46.694  1.00 41.19      A16S
ATOM  16445  O6   G   A 785     203.827  94.720 -45.922  1.00 41.19      A16S
ATOM  16446  C5   G   A 785     205.187  93.075 -46.960  1.00 41.19      A16S
ATOM  16447  N7   G   A 785     204.782  91.862 -46.430  1.00 41.19      A16S
ATOM  16448  C8   G   A 785     205.532  90.982 -47.030  1.00 41.19      A16S
ATOM  16449  C2*  G   A 785     208.821  91.162 -48.173  1.00 44.48      A16S
ATOM  16450  O2*  G   A 785     209.769  91.111 -49.214  1.00 44.48      A16S
ATOM  16451  C3*  G   A 785     209.023  90.024 -47.197  1.00 44.48      A16S
ATOM  16452  O3*  G   A 785     210.379  89.782 -46.971  1.00 44.48      A16S
ATOM  16453  P    G   A 786     211.081  90.445 -45.705  1.00 37.57      A16S
ATOM  16454  O1P  G   A 786     212.489  89.972 -45.708  1.00 40.12      A16S
ATOM  16455  O2P  G   A 786     210.219  90.156 -44.536  1.00 40.12      A16S
ATOM  16456  O5*  G   A 786     211.071  92.004 -46.052  1.00 37.57      A16S
ATOM  16457  C5*  G   A 786     211.864  92.513 -47.133  1.00 37.57      A16S
ATOM  16458  C4*  G   A 786     211.781  94.017 -47.211  1.00 37.57      A16S
ATOM  16459  O4*  G   A 786     210.454  94.439 -47.615  1.00 37.57      A16S
ATOM  16460  C1*  G   A 786     210.134  95.680 -47.006  1.00 37.57      A16S
ATOM  16461  N9   G   A 786     209.024  95.462 -46.083  1.00 40.12      A16S
ATOM  16462  C4   G   A 786     208.261  96.425 -45.469  1.00 40.12      A16S
ATOM  16463  N3   G   A 786     208.386  97.755 -45.629  1.00 40.12      A16S
ATOM  16464  C2   G   A 786     207.533  98.415 -44.883  1.00 40.12      A16S
ATOM  16465  N2   G   A 786     207.534  99.748 -44.898  1.00 40.12      A16S
ATOM  16466  N1   G   A 786     206.620  97.820 -44.062  1.00 40.12      A16S
ATOM  16467  C6   G   A 786     206.474  96.452 -43.885  1.00 40.12      A16S
ATOM  16468  O6   G   A 786     205.616  96.014 -43.114  1.00 40.12      A16S
ATOM  16469  C5   G   A 786     207.385  95.736 -44.659  1.00 40.12      A16S
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ATOM  16470  N7  G   A 786     207.581  94.369 -44.767  1.00 40.12      A16S
ATOM  16471  C8  G   A 786     208.553  94.252 -45.627  1.00 40.12      A16S
ATOM  16472  C2* G   A 786     211.378  96.129 -46.245  1.00 37.57      A16S
ATOM  16473  O2* G   A 786     212.170  96.907 -47.116  1.00 37.57      A16S
ATOM  16474  C3* G   A 786     212.048  94.796 -45.941  1.00 37.57      A16S
ATOM  16475  O3* G   A 786     213.433  94.948 -45.708  1.00 37.57      A16S
ATOM  16476  P   A   A 787     213.957  95.259 -44.221  1.00 43.03      A16S
ATOM  16477  O1P A   A 787     215.446  95.201 -44.272  1.00 41.35      A16S
ATOM  16478  O2P A   A 787     213.222  94.420 -43.228  1.00 41.35      A16S
ATOM  16479  O5* A   A 787     213.538  96.771 -43.983  1.00 43.03      A16S
ATOM  16480  C5* A   A 787     213.454  97.303 -42.655  1.00 43.03      A16S
ATOM  16481  C4* A   A 787     212.629  98.550 -42.670  1.00 43.03      A16S
ATOM  16482  O4* A   A 787     211.354  98.244 -43.276  1.00 43.03      A16S
ATOM  16483  C1* A   A 787     210.325  98.941 -42.604  1.00 43.03      A16S
ATOM  16484  N9  A   A 787     209.437  97.951 -41.983  1.00 41.35      A16S
ATOM  16485  C4  A   A 787     208.281  98.215 -41.293  1.00 41.35      A16S
ATOM  16486  N3  A   A 787     207.736  99.418 -41.052  1.00 41.35      A16S
ATOM  16487  C2  A   A 787     206.609  99.289 -40.367  1.00 41.35      A16S
ATOM  16488  N1  A   A 787     206.007  98.178 -39.930  1.00 41.35      A16S
ATOM  16489  C6  A   A 787     206.579  96.983 -40.193  1.00 41.35      A16S
ATOM  16490  N6  A   A 787     205.967  95.870 -39.766  1.00 41.35      A16S
ATOM  16491  C5  A   A 787     207.783  96.985 -40.907  1.00 41.35      A16S
ATOM  16492  N7  A   A 787     208.610  95.961 -41.340  1.00 41.35      A16S
ATOM  16493  C8  A   A 787     209.573  96.582 -41.969  1.00 41.35      A16S
ATOM  16494  C2* A   A 787     211.000  99.876 -41.606  1.00 43.03      A16S
ATOM  16495  O2* A   A 787     211.226 101.096 -42.278  1.00 43.03      A16S
ATOM  16496  C3* A   A 787     212.292  99.125 -41.315  1.00 43.03      A16S
ATOM  16497  O3* A   A 787     213.330  99.974 -40.873  1.00 43.03      A16S
ATOM  16498  P   U   A 788     213.864  99.850 -39.367  1.00 51.37      A16S
ATOM  16499  O1P U   A 788     214.973 100.829 -39.215  1.00 48.57      A16S
ATOM  16500  O2P U   A 788     214.085  98.419 -39.050  1.00 48.57      A16S
ATOM  16501  O5* U   A 788     212.637 100.334 -38.484  1.00 51.37      A16S
ATOM  16502  C5* U   A 788     212.121 101.669 -38.603  1.00 51.37      A16S
ATOM  16503  C4* U   A 788     210.914 101.829 -37.715  1.00 51.37      A16S
ATOM  16504  O4* U   A 788     209.799 101.107 -38.281  1.00 51.37      A16S
ATOM  16505  C1* U   A 788     209.020 100.550 -37.242  1.00 51.37      A16S
ATOM  16506  N1  U   A 788     208.985  99.095 -37.409  1.00 48.57      A16S
ATOM  16507  C6  U   A 788     209.988  98.430 -38.052  1.00 48.57      A16S
ATOM  16508  C2  U   A 788     207.909  98.418 -36.878  1.00 48.57      A16S
ATOM  16509  O2  U   A 788     206.982  98.983 -36.315  1.00 48.57      A16S
ATOM  16510  N3  U   A 788     207.954  97.056 -37.031  1.00 48.57      A16S
ATOM  16511  C4  U   A 788     208.939  96.331 -37.653  1.00 48.57      A16S
ATOM  16512  O4  U   A 788     208.861  95.107 -37.688  1.00 48.57      A16S
ATOM  16513  C5  U   A 788     210.002  97.111 -38.188  1.00 48.57      A16S
ATOM  16514  C2* U   A 788     209.644 100.953 -35.908  1.00 51.37      A16S
ATOM  16515  O2* U   A 788     208.958 102.080 -35.413  1.00 51.37      A16S
ATOM  16516  C3* U   A 788     211.075 101.262 -36.316  1.00 51.37      A16S
ATOM  16517  O3* U   A 788     211.673 102.209 -35.453  1.00 51.37      A16S
ATOM  16518  P   U   A 789     212.716 101.717 -34.343  1.00 47.48      A16S
ATOM  16519  O1P U   A 789     213.147 102.936 -33.607  1.00 71.83      A16S
ATOM  16520  O2P U   A 789     213.731 100.822 -34.969  1.00 71.83      A16S
ATOM  16521  O5* U   A 789     211.842 100.825 -33.368  1.00 47.48      A16S
ATOM  16522  C5* U   A 789     210.713 101.382 -32.698  1.00 47.48      A16S
ATOM  16523  C4* U   A 789     209.925 100.296 -32.036  1.00 47.48      A16S
ATOM  16524  O4* U   A 789     209.283  99.472 -33.039  1.00 47.48      A16S
ATOM  16525  C1* U   A 789     209.169  98.145 -32.557  1.00 47.48      A16S
ATOM  16526  N1  U   A 789     209.782  97.228 -33.530  1.00 71.83      A16S
ATOM  16527  C6  U   A 789     210.841  97.617 -34.304  1.00 71.83      A16S
ATOM  16528  C2  U   A 789     209.276  95.941 -33.618  1.00 71.83      A16S
ATOM  16529  O2  U   A 789     208.294  95.560 -33.001  1.00 71.83      A16S
ATOM  16530  N3  U   A 789     209.957  95.113 -34.466  1.00 71.83      A16S
ATOM  16531  C4  U   A 789     211.047  95.431 -35.234  1.00 71.83      A16S
ATOM  16532  O4  U   A 789     211.604  94.547 -35.888  1.00 71.83      A16S
ATOM  16533  C5  U   A 789     211.472  96.787 -35.128  1.00 71.83      A16S
ATOM  16534  C2* U   A 789     209.838  98.089 -31.177  1.00 47.48      A16S
ATOM  16535  O2* U   A 789     208.847  98.172 -30.183  1.00 47.48      A16S
ATOM  16536  C3* U   A 789     210.740  99.319 -31.214  1.00 47.48      A16S
ATOM  16537  O3* U   A 789     211.039  99.860 -29.929  1.00 47.48      A16S
ATOM  16538  P   A   A 790     212.349  99.363 -29.132  1.00 38.17      A16S
ATOM  16539  O1P A   A 790     212.297  99.949 -27.764  1.00 64.30      A16S
ATOM  16540  O2P A   A 790     213.541  99.596 -29.991  1.00 64.30      A16S
ATOM  16541  O5* A   A 790     212.107  97.803 -29.000  1.00 38.17      A16S
ATOM  16542  C5* A   A 790     213.132  96.959 -28.529  1.00 38.17      A16S
ATOM  16543  C4* A   A 790     212.523  95.761 -27.883  1.00 38.17      A16S
ATOM  16544  O4* A   A 790     211.769  96.194 -26.732  1.00 38.17      A16S
ATOM  16545  C1* A   A 790     210.613  95.396 -26.596  1.00 38.17      A16S
ATOM  16546  N9  A   A 790     209.449  96.276 -26.650  1.00 64.30      A16S
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ATOM  16547  C4   A   A 790     208.262  96.081 -25.995  1.00 64.30      A16S
ATOM  16548  N3   A   A 790     207.941  95.064 -25.181  1.00 64.30      A16S
ATOM  16549  C2   A   A 790     206.703  95.213 -24.716  1.00 64.30      A16S
ATOM  16550  N1   A   A 790     205.819  96.188 -24.960  1.00 64.30      A16S
ATOM  16551  C6   A   A 790     206.176  97.190 -25.789  1.00 64.30      A16S
ATOM  16552  N6   A   A 790     205.297  98.158 -26.044  1.00 64.30      A16S
ATOM  16553  C5   A   A 790     207.461  97.153 -26.340  1.00 64.30      A16S
ATOM  16554  N7   A   A 790     208.132  98.014 -27.197  1.00 64.30      A16S
ATOM  16555  C8   A   A 790     209.304  97.448 -27.350  1.00 64.30      A16S
ATOM  16556  C2*  A   A 790     210.635  94.350 -27.711  1.00 38.17      A16S
ATOM  16557  O2*  A   A 790     211.218  93.168 -27.205  1.00 38.17      A16S
ATOM  16558  C3*  A   A 790     211.521  95.024 -28.747  1.00 38.17      A16S
ATOM  16559  O3*  A   A 790     212.195  94.090 -29.568  1.00 38.17      A16S
ATOM  16560  P    G   A 791     212.007  94.147 -31.157  1.00 48.22      A16S
ATOM  16561  O1P  G   A 791     213.139  93.366 -31.703  1.00 50.69      A16S
ATOM  16562  O2P  G   A 791     211.795  95.541 -31.614  1.00 50.69      A16S
ATOM  16563  O5*  G   A 791     210.673  93.313 -31.387  1.00 48.22      A16S
ATOM  16564  C5*  G   A 791     210.628  91.920 -31.043  1.00 48.22      A16S
ATOM  16565  C4*  G   A 791     209.203  91.465 -30.877  1.00 48.22      A16S
ATOM  16566  O4*  G   A 791     208.617  92.075 -29.702  1.00 48.22      A16S
ATOM  16567  C1*  G   A 791     207.253  92.367 -29.946  1.00 48.22      A16S
ATOM  16568  N9   G   A 791     207.089  93.811 -29.819  1.00 50.69      A16S
ATOM  16569  C4   G   A 791     206.001  94.485 -29.311  1.00 50.69      A16S
ATOM  16570  N3   G   A 791     204.861  93.926 -28.855  1.00 50.69      A16S
ATOM  16571  C2   G   A 791     204.007  94.831 -28.421  1.00 50.69      A16S
ATOM  16572  N2   G   A 791     202.836  94.435 -27.909  1.00 50.69      A16S
ATOM  16573  N1   G   A 791     204.243  96.182 -28.446  1.00 50.69      A16S
ATOM  16574  C6   G   A 791     205.408  96.780 -28.913  1.00 50.69      A16S
ATOM  16575  O6   G   A 791     205.529  98.022 -28.891  1.00 50.69      A16S
ATOM  16576  C5   G   A 791     206.337  95.815 -29.372  1.00 50.69      A16S
ATOM  16577  N7   G   A 791     207.600  95.979 -29.922  1.00 50.69      A16S
ATOM  16578  C8   G   A 791     208.004  94.767 -30.174  1.00 50.69      A16S
ATOM  16579  C2*  G   A 791     206.909  91.834 -31.340  1.00 48.22      A16S
ATOM  16580  O2*  G   A 791     206.374  90.528 -31.229  1.00 48.22      A16S
ATOM  16581  C3*  G   A 791     208.273  91.835 -32.012  1.00 48.22      A16S
ATOM  16582  O3*  G   A 791     208.359  90.875 -33.036  1.00 48.22      A16S
ATOM  16583  P    A   A 792     208.415  91.359 -34.559  1.00 43.48      A16S
ATOM  16584  O1P  A   A 792     208.304  90.113 -35.371  1.00 59.27      A16S
ATOM  16585  O2P  A   A 792     209.572  92.272 -34.769  1.00 59.27      A16S
ATOM  16586  O5*  A   A 792     207.079  92.206 -34.717  1.00 43.48      A16S
ATOM  16587  C5*  A   A 792     205.812  91.541 -34.822  1.00 43.48      A16S
ATOM  16588  C4*  A   A 792     204.763  92.510 -35.265  1.00 43.48      A16S
ATOM  16589  O4*  A   A 792     204.271  93.273 -34.134  1.00 43.48      A16S
ATOM  16590  C1*  A   A 792     204.256  94.624 -34.499  1.00 43.48      A16S
ATOM  16591  N9   A   A 792     204.182  95.479 -33.324  1.00 59.27      A16S
ATOM  16592  C4   A   A 792     203.033  96.072 -32.864  1.00 59.27      A16S
ATOM  16593  N3   A   A 792     201.792  95.929 -33.352  1.00 59.27      A16S
ATOM  16594  C2   A   A 792     200.946  96.698 -32.698  1.00 59.27      A16S
ATOM  16595  N1   A   A 792     201.176  97.534 -31.691  1.00 59.27      A16S
ATOM  16596  C6   A   A 792     202.433  97.655 -31.223  1.00 59.27      A16S
ATOM  16597  N6   A   A 792     202.668  98.508 -30.223  1.00 59.27      A16S
ATOM  16598  C5   A   A 792     203.421  96.883 -31.826  1.00 59.27      A16S
ATOM  16599  N7   A   A 792     204.780  96.769 -31.600  1.00 59.27      A16S
ATOM  16600  C8   A   A 792     205.180  95.911 -32.503  1.00 59.27      A16S
ATOM  16601  C2*  A   A 792     205.454  94.772 -35.423  1.00 43.48      A16S
ATOM  16602  O2*  A   A 792     205.358  95.977 -36.137  1.00 43.48      A16S
ATOM  16603  C3*  A   A 792     205.266  93.528 -36.280  1.00 43.48      A16S
ATOM  16604  O3*  A   A 792     204.207  93.812 -37.173  1.00 43.48      A16S
ATOM  16605  P    U   A 793     203.812  92.761 -38.311  1.00 48.28      A16S
ATOM  16606  O1P  U   A 793     204.735  91.598 -38.208  1.00 50.94      A16S
ATOM  16607  O2P  U   A 793     203.743  93.536 -39.570  1.00 50.94      A16S
ATOM  16608  O5*  U   A 793     202.334  92.310 -37.924  1.00 48.28      A16S
ATOM  16609  C5*  U   A 793     202.110  91.308 -36.914  1.00 48.28      A16S
ATOM  16610  C4*  U   A 793     201.105  90.302 -37.411  1.00 48.28      A16S
ATOM  16611  O4*  U   A 793     201.298  89.011 -36.792  1.00 48.28      A16S
ATOM  16612  C1*  U   A 793     200.049  88.428 -36.510  1.00 48.28      A16S
ATOM  16613  N1   U   A 793     200.190  87.673 -35.256  1.00 50.94      A16S
ATOM  16614  C6   U   A 793     200.380  88.303 -34.050  1.00 50.94      A16S
ATOM  16615  C2   U   A 793     200.129  86.299 -35.335  1.00 50.94      A16S
ATOM  16616  O2   U   A 793     199.986  85.704 -36.389  1.00 50.94      A16S
ATOM  16617  N3   U   A 793     200.254  85.639 -34.135  1.00 50.94      A16S
ATOM  16618  C4   U   A 793     200.447  86.207 -32.895  1.00 50.94      A16S
ATOM  16619  O4   U   A 793     200.575  85.479 -31.906  1.00 50.94      A16S
ATOM  16620  C5   U   A 793     200.510  87.639 -32.901  1.00 50.94      A16S
ATOM  16621  C2*  U   A 793     199.033  89.564 -36.418  1.00 48.28      A16S
ATOM  16622  O2*  U   A 793     197.769  89.089 -36.854  1.00 48.28      A16S
ATOM  16623  C3*  U   A 793     199.624  90.639 -37.336  1.00 48.28      A16S
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ATOM  16624  O3*  U   A 793     199.051  90.601 -38.620  1.00 48.28      A16S
ATOM  16625  P    A   A 794     198.122  91.819 -39.096  1.00 33.33      A16S
ATOM  16626  O1P  A   A 794     196.762  91.632 -38.509  1.00 63.51      A16S
ATOM  16627  O2P  A   A 794     198.276  91.938 -40.575  1.00 63.51      A16S
ATOM  16628  O5*  A   A 794     198.779  93.103 -38.437  1.00 33.33      A16S
ATOM  16629  C5*  A   A 794     199.184  94.206 -39.256  1.00 33.33      A16S
ATOM  16630  C4*  A   A 794     198.588  95.483 -38.733  1.00 33.33      A16S
ATOM  16631  O4*  A   A 794     198.920  95.633 -37.329  1.00 33.33      A16S
ATOM  16632  C1*  A   A 794     199.167  96.991 -37.042  1.00 33.33      A16S
ATOM  16633  N9   A   A 794     200.548  97.117 -36.571  1.00 63.51      A16S
ATOM  16634  C4   A   A 794     201.049  98.116 -35.772  1.00 63.51      A16S
ATOM  16635  N3   A   A 794     200.386  99.162 -35.264  1.00 63.51      A16S
ATOM  16636  C2   A   A 794     201.195  99.925 -34.544  1.00 63.51      A16S
ATOM  16637  N1   A   A 794     202.490  99.778 -34.286  1.00 63.51      A16S
ATOM  16638  C6   A   A 794     203.130  98.717 -34.804  1.00 63.51      A16S
ATOM  16639  N6   A   A 794     204.427  98.570 -34.537  1.00 63.51      A16S
ATOM  16640  C5   A   A 794     202.383  97.827 -35.598  1.00 63.51      A16S
ATOM  16641  N7   A   A 794     202.724  96.665 -36.274  1.00 63.51      A16S
ATOM  16642  C8   A   A 794     201.603  96.284 -36.829  1.00 63.51      A16S
ATOM  16643  C2*  A   A 794     198.878  97.782 -38.319  1.00 33.33      A16S
ATOM  16644  O2*  A   A 794     197.522  98.161 -38.322  1.00 33.33      A16S
ATOM  16645  C3*  A   A 794     199.108  96.741 -39.395  1.00 33.33      A16S
ATOM  16646  O3*  A   A 794     198.342  97.037 -40.545  1.00 33.33      A16S
ATOM  16647  P    C   A 795     199.016  97.810 -41.781  1.00 36.55      A16S
ATOM  16648  O1P  C   A 795     198.048  97.689 -42.910  1.00 48.83      A16S
ATOM  16649  O2P  C   A 795     200.422  97.327 -41.944  1.00 48.83      A16S
ATOM  16650  O5*  C   A 795     199.080  99.337 -41.323  1.00 36.55      A16S
ATOM  16651  C5*  C   A 795     197.887 100.087 -41.124  1.00 36.55      A16S
ATOM  16652  C4*  C   A 795     198.121 101.191 -40.134  1.00 36.55      A16S
ATOM  16653  O4*  C   A 795     198.648 100.644 -38.909  1.00 36.55      A16S
ATOM  16654  C1*  C   A 795     199.497 101.595 -38.293  1.00 36.55      A16S
ATOM  16655  N1   C   A 795     200.840 101.010 -38.135  1.00 48.83      A16S
ATOM  16656  C6   C   A 795     201.225  99.898 -38.831  1.00 48.83      A16S
ATOM  16657  C2   C   A 795     201.717 101.615 -37.245  1.00 48.83      A16S
ATOM  16658  O2   C   A 795     201.342 102.639 -36.642  1.00 48.83      A16S
ATOM  16659  N3   C   A 795     202.947 101.079 -37.059  1.00 48.83      A16S
ATOM  16660  C4   C   A 795     203.304  99.985 -37.728  1.00 48.83      A16S
ATOM  16661  N4   C   A 795     204.515  99.478 -37.495  1.00 48.83      A16S
ATOM  16662  C5   C   A 795     202.433  99.357 -38.657  1.00 48.83      A16S
ATOM  16663  C2*  C   A 795     199.505 102.842 -39.171  1.00 36.55      A16S
ATOM  16664  O2*  C   A 795     198.504 103.747 -38.737  1.00 36.55      A16S
ATOM  16665  C3*  C   A 795     199.121 102.260 -40.513  1.00 36.55      A16S
ATOM  16666  O3*  C   A 795     198.498 103.249 -41.275  1.00 36.55      A16S
ATOM  16667  P    C   A 796     198.720 103.255 -42.845  1.00 41.18      A16S
ATOM  16668  O1P  C   A 796     197.995 104.424 -43.422  1.00 43.12      A16S
ATOM  16669  O2P  C   A 796     198.379 101.872 -43.295  1.00 43.12      A16S
ATOM  16670  O5*  C   A 796     200.290 103.473 -42.992  1.00 41.18      A16S
ATOM  16671  C5*  C   A 796     200.857 104.777 -42.896  1.00 41.18      A16S
ATOM  16672  C4*  C   A 796     202.302 104.746 -43.322  1.00 41.18      A16S
ATOM  16673  O4*  C   A 796     203.061 103.948 -42.375  1.00 41.18      A16S
ATOM  16674  C1*  C   A 796     204.116 103.289 -43.046  1.00 41.18      A16S
ATOM  16675  N1   C   A 796     203.944 101.836 -42.878  1.00 43.12      A16S
ATOM  16676  C6   C   A 796     202.739 101.305 -42.512  1.00 43.12      A16S
ATOM  16677  C2   C   A 796     205.042 100.997 -43.108  1.00 43.12      A16S
ATOM  16678  O2   C   A 796     206.135 101.502 -43.439  1.00 43.12      A16S
ATOM  16679  N3   C   A 796     204.892  99.663 -42.970  1.00 43.12      A16S
ATOM  16680  C4   C   A 796     203.712  99.158 -42.626  1.00 43.12      A16S
ATOM  16681  N4   C   A 796     203.613  97.833 -42.521  1.00 43.12      A16S
ATOM  16682  C5   C   A 796     202.580  99.986 -42.377  1.00 43.12      A16S
ATOM  16683  C2*  C   A 796     204.076 103.727 -44.510  1.00 41.18      A16S
ATOM  16684  O2*  C   A 796     204.933 104.837 -44.678  1.00 41.18      A16S
ATOM  16685  C3*  C   A 796     202.615 104.124 -44.675  1.00 41.18      A16S
ATOM  16686  O3*  C   A 796     202.441 105.034 -45.757  1.00 41.18      A16S
ATOM  16687  P    C   A 797     202.042 104.470 -47.214  1.00 38.19      A16S
ATOM  16688  O1P  C   A 797     201.834 105.638 -48.116  1.00 35.69      A16S
ATOM  16689  O2P  C   A 797     200.977 103.451 -47.063  1.00 35.69      A16S
ATOM  16690  O5*  C   A 797     203.341 103.681 -47.690  1.00 38.19      A16S
ATOM  16691  C5*  C   A 797     204.584 104.368 -47.966  1.00 38.19      A16S
ATOM  16692  C4*  C   A 797     205.603 103.388 -48.484  1.00 38.19      A16S
ATOM  16693  O4*  C   A 797     206.023 102.511 -47.409  1.00 38.19      A16S
ATOM  16694  C1*  C   A 797     206.301 101.224 -47.924  1.00 38.19      A16S
ATOM  16695  N1   C   A 797     205.446 100.237 -47.255  1.00 35.69      A16S
ATOM  16696  C6   C   A 797     204.377 100.620 -46.497  1.00 35.69      A16S
ATOM  16697  C2   C   A 797     205.747  98.870 -47.414  1.00 35.69      A16S
ATOM  16698  O2   C   A 797     206.699  98.544 -48.133  1.00 35.69      A16S
ATOM  16699  N3   C   A 797     204.987  97.947 -46.790  1.00 35.69      A16S
ATOM  16700  C4   C   A 797     203.951  98.334 -46.051  1.00 35.69      A16S
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ATOM  16701  N4   C   A 797     203.234  97.389 -45.455  1.00 35.69      A16S
ATOM  16702  C5   C   A 797     203.607  99.711 -45.887  1.00 35.69      A16S
ATOM  16703  C2*  C   A 797     206.039 101.251 -49.424  1.00 38.19      A16S
ATOM  16704  O2*  C   A 797     207.272 101.427 -50.076  1.00 38.19      A16S
ATOM  16705  C3*  C   A 797     205.094 102.437 -49.551  1.00 38.19      A16S
ATOM  16706  O3*  C   A 797     205.088 103.012 -50.847  1.00 38.19      A16S
ATOM  16707  P    G   A 798     204.189 102.343 -52.002  1.00 45.57      A16S
ATOM  16708  O1P  G   A 798     204.315 103.206 -53.199  1.00 40.20      A16S
ATOM  16709  O2P  G   A 798     202.850 102.004 -51.487  1.00 40.20      A16S
ATOM  16710  O5*  G   A 798     204.934 100.970 -52.294  1.00 45.57      A16S
ATOM  16711  C5*  G   A 798     206.244 100.976 -52.874  1.00 45.57      A16S
ATOM  16712  C4*  G   A 798     206.634  99.593 -53.291  1.00 45.57      A16S
ATOM  16713  O4*  G   A 798     206.833  98.767 -52.118  1.00 45.57      A16S
ATOM  16714  C1*  G   A 798     206.411  97.443 -52.393  1.00 45.57      A16S
ATOM  16715  N9   G   A 798     205.349  97.082 -51.460  1.00 40.20      A16S
ATOM  16716  C4   G   A 798     204.919  95.810 -51.180  1.00 40.20      A16S
ATOM  16717  N3   G   A 798     205.412  94.681 -51.709  1.00 40.20      A16S
ATOM  16718  C2   G   A 798     204.810  93.615 -51.228  1.00 40.20      A16S
ATOM  16719  N2   G   A 798     205.188  92.411 -51.625  1.00 40.20      A16S
ATOM  16720  N1   G   A 798     203.794  93.651 -50.317  1.00 40.20      A16S
ATOM  16721  C6   G   A 798     203.255  94.804 -49.775  1.00 40.20      A16S
ATOM  16722  O6   G   A 798     202.310  94.726 -48.979  1.00 40.20      A16S
ATOM  16723  C5   G   A 798     203.907  95.958 -50.265  1.00 40.20      A16S
ATOM  16724  N7   G   A 798     203.699  97.293 -49.976  1.00 40.20      A16S
ATOM  16725  C8   G   A 798     204.576  97.924 -50.707  1.00 40.20      A16S
ATOM  16726  C2*  G   A 798     205.914  97.405 -53.835  1.00 45.57      A16S
ATOM  16727  O2*  G   A 798     206.944  96.913 -54.657  1.00 45.57      A16S
ATOM  16728  C3*  G   A 798     205.573  98.870 -54.082  1.00 45.57      A16S
ATOM  16729  O3*  G   A 798     205.547  99.252 -55.450  1.00 45.57      A16S
ATOM  16730  P    G   A 799     204.282  98.823 -56.357  1.00 39.37      A16S
ATOM  16731  O1P  G   A 799     204.497  99.323 -57.752  1.00 43.55      A16S
ATOM  16732  O2P  G   A 799     203.048  99.221 -55.630  1.00 43.55      A16S
ATOM  16733  O5*  G   A 799     204.385  97.229 -56.331  1.00 39.37      A16S
ATOM  16734  C5*  G   A 799     203.248  96.410 -56.550  1.00 39.37      A16S
ATOM  16735  C4*  G   A 799     203.592  94.965 -56.293  1.00 39.37      A16S
ATOM  16736  O4*  G   A 799     203.967  94.779 -54.903  1.00 39.37      A16S
ATOM  16737  C1*  G   A 799     203.417  93.559 -54.415  1.00 39.37      A16S
ATOM  16738  N9   G   A 799     202.411  93.877 -53.410  1.00 43.55      A16S
ATOM  16739  C4   G   A 799     201.696  92.979 -52.662  1.00 43.55      A16S
ATOM  16740  N3   G   A 799     201.807  91.642 -52.714  1.00 43.55      A16S
ATOM  16741  C2   G   A 799     200.998  91.049 -51.862  1.00 43.55      A16S
ATOM  16742  N2   G   A 799     200.983  89.723 -51.781  1.00 43.55      A16S
ATOM  16743  N1   G   A 799     200.149  91.711 -51.026  1.00 43.55      A16S
ATOM  16744  C6   G   A 799     200.018  93.087 -50.954  1.00 43.55      A16S
ATOM  16745  O6   G   A 799     199.238  93.587 -50.155  1.00 43.55      A16S
ATOM  16746  C5   G   A 799     200.871  93.738 -51.868  1.00 43.55      A16S
ATOM  16747  N7   G   A 799     201.053  95.090 -52.118  1.00 43.55      A16S
ATOM  16748  C8   G   A 799     201.977  95.124 -53.037  1.00 43.55      A16S
ATOM  16749  C2*  G   A 799     202.734  92.862 -55.585  1.00 39.37      A16S
ATOM  16750  O2*  G   A 799     203.612  91.936 -56.162  1.00 39.37      A16S
ATOM  16751  C3*  G   A 799     202.409  94.039 -56.483  1.00 39.37      A16S
ATOM  16752  O3*  G   A 799     202.241  93.684 -57.830  1.00 39.37      A16S
ATOM  16753  P    G   A 800     200.774  93.733 -58.468  1.00 35.66      A16S
ATOM  16754  O1P  G   A 800     200.896  93.138 -59.826  1.00 36.41      A16S
ATOM  16755  O2P  G   A 800     200.227  95.110 -58.326  1.00 36.41      A16S
ATOM  16756  O5*  G   A 800     199.967  92.689 -57.579  1.00 35.66      A16S
ATOM  16757  C5*  G   A 800     200.343  91.317 -57.598  1.00 35.66      A16S
ATOM  16758  C4*  G   A 800     199.545  90.541 -56.594  1.00 35.66      A16S
ATOM  16759  O4*  G   A 800     199.865  90.998 -55.262  1.00 35.66      A16S
ATOM  16760  C1*  G   A 800     198.692  91.048 -54.475  1.00 35.66      A16S
ATOM  16761  N9   G   A 800     198.438  92.457 -54.176  1.00 36.41      A16S
ATOM  16762  C4   G   A 800     197.709  92.973 -53.134  1.00 36.41      A16S
ATOM  16763  N3   G   A 800     197.086  92.265 -52.174  1.00 36.41      A16S
ATOM  16764  C2   G   A 800     196.482  93.042 -51.308  1.00 36.41      A16S
ATOM  16765  N2   G   A 800     195.830  92.503 -50.280  1.00 36.41      A16S
ATOM  16766  N1   G   A 800     196.482  94.404 -51.384  1.00 36.41      A16S
ATOM  16767  C6   G   A 800     197.130  95.151 -52.358  1.00 36.41      A16S
ATOM  16768  O6   G   A 800     197.096  96.384 -52.321  1.00 36.41      A16S
ATOM  16769  C5   G   A 800     197.776  94.335 -53.285  1.00 36.41      A16S
ATOM  16770  N7   G   A 800     198.530  94.674 -54.396  1.00 36.41      A16S
ATOM  16771  C8   G   A 800     198.899  93.533 -54.894  1.00 36.41      A16S
ATOM  16772  C2*  G   A 800     197.586  90.379 -55.291  1.00 35.66      A16S
ATOM  16773  O2*  G   A 800     197.639  88.996 -55.006  1.00 35.66      A16S
ATOM  16774  C3*  G   A 800     198.041  90.666 -56.716  1.00 35.66      A16S
ATOM  16775  O3*  G   A 800     197.575  89.699 -57.644  1.00 35.66      A16S
ATOM  16776  P    U   A 801     196.296  90.013 -58.563  1.00 36.17      A16S
ATOM  16777  O1P  U   A 801     196.552  89.459 -59.910  1.00 33.68      A16S
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ATOM  16778  O2P U   A 801     195.898  91.430 -58.452  1.00 33.68      A16S
ATOM  16779  O5* U   A 801     195.191  89.094 -57.888  1.00 36.17      A16S
ATOM  16780  C5* U   A 801     195.298  87.672 -57.980  1.00 36.17      A16S
ATOM  16781  C4* U   A 801     194.333  87.006 -57.036  1.00 36.17      A16S
ATOM  16782  O4* U   A 801     194.765  87.197 -55.666  1.00 36.17      A16S
ATOM  16783  C1* U   A 801     193.628  87.243 -54.822  1.00 36.17      A16S
ATOM  16784  N1  U   A 801     193.586  88.548 -54.147  1.00 33.68      A16S
ATOM  16785  C6  U   A 801     194.253  89.633 -54.652  1.00 33.68      A16S
ATOM  16786  C2  U   A 801     192.834  88.646 -52.980  1.00 33.68      A16S
ATOM  16787  O2  U   A 801     192.212  87.709 -52.498  1.00 33.68      A16S
ATOM  16788  N3  U   A 801     192.832  89.883 -52.406  1.00 33.68      A16S
ATOM  16789  C4  U   A 801     193.472  91.001 -52.864  1.00 33.68      A16S
ATOM  16790  O4  U   A 801     193.323  92.057 -52.262  1.00 33.68      A16S
ATOM  16791  C5  U   A 801     194.223  90.821 -54.068  1.00 33.68      A16S
ATOM  16792  C2* U   A 801     192.392  87.042 -55.697  1.00 36.17      A16S
ATOM  16793  O2* U   A 801     192.046  85.673 -55.718  1.00 36.17      A16S
ATOM  16794  C3* U   A 801     192.900  87.505 -57.045  1.00 36.17      A16S
ATOM  16795  O3* U   A 801     192.116  86.963 -58.080  1.00 36.17      A16S
ATOM  16796  P   A   A 802     190.794  87.743 -58.540  1.00 40.56      A16S
ATOM  16797  O1P A   A 802     190.263  87.069 -59.757  1.00 37.80      A16S
ATOM  16798  O2P A   A 802     191.118  89.201 -58.582  1.00 37.80      A16S
ATOM  16799  O5* A   A 802     189.778  87.456 -57.353  1.00 40.56      A16S
ATOM  16800  C5* A   A 802     189.343  86.121 -57.081  1.00 40.56      A16S
ATOM  16801  C4* A   A 802     188.483  86.091 -55.844  1.00 40.56      A16S
ATOM  16802  O4* A   A 802     189.269  86.511 -54.703  1.00 40.56      A16S
ATOM  16803  C1* A   A 802     188.468  87.259 -53.825  1.00 40.56      A16S
ATOM  16804  N9  A   A 802     189.009  88.611 -53.784  1.00 37.80      A16S
ATOM  16805  C4  A   A 802     188.814  89.536 -52.792  1.00 37.80      A16S
ATOM  16806  N3  A   A 802     188.097  89.382 -51.669  1.00 37.80      A16S
ATOM  16807  C2  A   A 802     188.137  90.481 -50.945  1.00 37.80      A16S
ATOM  16808  N1  A   A 802     188.765  91.637 -51.190  1.00 37.80      A16S
ATOM  16809  C6  A   A 802     189.474  91.760 -52.325  1.00 37.80      A16S
ATOM  16810  N6  A   A 802     190.100  92.912 -52.562  1.00 37.80      A16S
ATOM  16811  C5  A   A 802     189.509  90.661 -53.185  1.00 37.80      A16S
ATOM  16812  N7  A   A 802     190.129  90.451 -54.403  1.00 37.80      A16S
ATOM  16813  C8  A   A 802     189.802  89.223 -54.713  1.00 37.80      A16S
ATOM  16814  C2* A   A 802     187.040  87.229 -54.368  1.00 40.56      A16S
ATOM  16815  O2* A   A 802     186.355  86.127 -53.809  1.00 40.56      A16S
ATOM  16816  C3* A   A 802     187.276  87.011 -55.850  1.00 40.56      A16S
ATOM  16817  O3* A   A 802     186.148  86.385 -56.447  1.00 40.56      A16S
ATOM  16818  P   G   A 803     185.163  87.239 -57.388  1.00 29.58      A16S
ATOM  16819  O1P G   A 803     183.911  86.440 -57.455  1.00 45.37      A16S
ATOM  16820  O2P G   A 803     185.846  87.660 -58.651  1.00 45.37      A16S
ATOM  16821  O5* G   A 803     184.875  88.569 -56.561  1.00 29.58      A16S
ATOM  16822  C5* G   A 803     184.100  88.538 -55.348  1.00 29.58      A16S
ATOM  16823  C4* G   A 803     184.196  89.862 -54.649  1.00 29.58      A16S
ATOM  16824  O4* G   A 803     185.592  90.107 -54.385  1.00 29.58      A16S
ATOM  16825  C1* G   A 803     185.860  91.480 -54.507  1.00 29.58      A16S
ATOM  16826  N9  G   A 803     186.834  91.666 -55.572  1.00 45.37      A16S
ATOM  16827  C4  G   A 803     187.701  92.718 -55.677  1.00 45.37      A16S
ATOM  16828  N3  G   A 803     187.827  93.720 -54.788  1.00 45.37      A16S
ATOM  16829  C2  G   A 803     188.725  94.593 -55.167  1.00 45.37      A16S
ATOM  16830  N2  G   A 803     188.998  95.633 -54.378  1.00 45.37      A16S
ATOM  16831  N1  G   A 803     189.425  94.505 -56.342  1.00 45.37      A16S
ATOM  16832  C6  G   A 803     189.296  93.486 -57.271  1.00 45.37      A16S
ATOM  16833  O6  G   A 803     189.946  93.516 -58.302  1.00 45.37      A16S
ATOM  16834  C5  G   A 803     188.364  92.531 -56.863  1.00 45.37      A16S
ATOM  16835  N7  G   A 803     187.950  91.361 -57.479  1.00 45.37      A16S
ATOM  16836  C8  G   A 803     187.045  90.876 -56.674  1.00 45.37      A16S
ATOM  16837  C2* G   A 803     184.549  92.195 -54.826  1.00 29.58      A16S
ATOM  16838  O2* G   A 803     183.978  92.664 -53.624  1.00 29.58      A16S
ATOM  16839  C3* G   A 803     183.735  91.077 -55.443  1.00 29.58      A16S
ATOM  16840  O3* G   A 803     182.345  91.320 -55.273  1.00 29.58      A16S
ATOM  16841  P   U   A 804     181.501  92.037 -56.449  1.00 37.34      A16S
ATOM  16842  O1P U   A 804     180.130  92.163 -55.883  1.00 51.54      A16S
ATOM  16843  O2P U   A 804     181.687  91.350 -57.765  1.00 51.54      A16S
ATOM  16844  O5* U   A 804     182.132  93.493 -56.548  1.00 37.34      A16S
ATOM  16845  C5* U   A 804     181.862  94.452 -55.537  1.00 37.34      A16S
ATOM  16846  C4* U   A 804     182.761  95.634 -55.692  1.00 37.34      A16S
ATOM  16847  O4* U   A 804     184.132  95.185 -55.665  1.00 37.34      A16S
ATOM  16848  C1* U   A 804     184.919  96.025 -56.490  1.00 37.34      A16S
ATOM  16849  N1  U   A 804     185.580  95.211 -57.522  1.00 51.54      A16S
ATOM  16850  C6  U   A 804     185.038  94.028 -57.963  1.00 51.54      A16S
ATOM  16851  C2  U   A 804     186.766  95.681 -58.040  1.00 51.54      A16S
ATOM  16852  O2  U   A 804     187.281  96.714 -57.687  1.00 51.54      A16S
ATOM  16853  N3  U   A 804     187.330  94.889 -58.994  1.00 51.54      A16S
ATOM  16854  C4  U   A 804     186.849  93.699 -59.477  1.00 51.54      A16S
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ATOM  16855  O4   U   A 804     187.528  93.059 -60.277  1.00 51.54      A16S
ATOM  16856  C5   U   A 804     185.615  93.280 -58.901  1.00 51.54      A16S
ATOM  16857  C2*  U   A 804     183.995  97.081 -57.089  1.00 37.34      A16S
ATOM  16858  O2*  U   A 804     184.063  98.238 -56.284  1.00 37.34      A16S
ATOM  16859  C3*  U   A 804     182.644  96.395 -56.995  1.00 37.34      A16S
ATOM  16860  O3*  U   A 804     181.597  97.344 -56.937  1.00 37.34      A16S
ATOM  16861  P    C   A 805     180.317  97.170 -57.885  1.00 42.48      A16S
ATOM  16862  O1P  C   A 805     179.494  98.397 -57.747  1.00 31.81      A16S
ATOM  16863  O2P  C   A 805     179.718  95.841 -57.611  1.00 31.81      A16S
ATOM  16864  O5*  C   A 805     180.931  97.127 -59.345  1.00 42.48      A16S
ATOM  16865  C5*  C   A 805     181.353  98.324 -60.011  1.00 42.48      A16S
ATOM  16866  C4*  C   A 805     181.413  98.068 -61.488  1.00 42.48      A16S
ATOM  16867  O4*  C   A 805     182.555  97.227 -61.808  1.00 42.48      A16S
ATOM  16868  C1*  C   A 805     182.193  96.297 -62.807  1.00 42.48      A16S
ATOM  16869  N1   C   A 805     182.325  94.936 -62.269  1.00 31.81      A16S
ATOM  16870  C6   C   A 805     182.411  94.699 -60.928  1.00 31.81      A16S
ATOM  16871  C2   C   A 805     182.358  93.877 -63.168  1.00 31.81      A16S
ATOM  16872  O2   C   A 805     182.313  94.127 -64.385  1.00 31.81      A16S
ATOM  16873  N3   C   A 805     182.453  92.612 -62.705  1.00 31.81      A16S
ATOM  16874  C4   C   A 805     182.540  92.391 -61.398  1.00 31.81      A16S
ATOM  16875  N4   C   A 805     182.653  91.126 -60.990  1.00 31.81      A16S
ATOM  16876  C5   C   A 805     182.522  93.453 -60.453  1.00 31.81      A16S
ATOM  16877  C2*  C   A 805     180.758  96.597 -63.217  1.00 42.48      A16S
ATOM  16878  O2*  C   A 805     180.793  97.521 -64.273  1.00 42.48      A16S
ATOM  16879  C3*  C   A 805     180.224  97.266 -61.970  1.00 42.48      A16S
ATOM  16880  O3*  C   A 805     179.110  98.086 -62.219  1.00 42.48      A16S
ATOM  16881  P    C   A 806     177.646  97.450 -62.143  1.00 39.83      A16S
ATOM  16882  O1P  C   A 806     176.717  98.581 -62.296  1.00 35.33      A16S
ATOM  16883  O2P  C   A 806     177.561  96.572 -60.946  1.00 35.33      A16S
ATOM  16884  O5*  C   A 806     177.555  96.517 -63.425  1.00 39.83      A16S
ATOM  16885  C5*  C   A 806     177.646  97.074 -64.739  1.00 39.83      A16S
ATOM  16886  C4*  C   A 806     177.389  96.007 -65.768  1.00 39.83      A16S
ATOM  16887  O4*  C   A 806     178.501  95.080 -65.811  1.00 39.83      A16S
ATOM  16888  C1*  C   A 806     178.024  93.781 -66.096  1.00 39.83      A16S
ATOM  16889  N1   C   A 806     178.412  92.889 -64.999  1.00 35.33      A16S
ATOM  16890  C6   C   A 806     178.845  93.389 -63.810  1.00 35.33      A16S
ATOM  16891  C2   C   A 806     178.329  91.509 -65.192  1.00 35.33      A16S
ATOM  16892  O2   C   A 806     177.946  91.075 -66.292  1.00 35.33      A16S
ATOM  16893  N3   C   A 806     178.668  90.678 -64.183  1.00 35.33      A16S
ATOM  16894  C4   C   A 806     179.075  91.179 -63.024  1.00 35.33      A16S
ATOM  16895  N4   C   A 806     179.371  90.333 -62.055  1.00 35.33      A16S
ATOM  16896  C5   C   A 806     179.188  92.578 -62.808  1.00 35.33      A16S
ATOM  16897  C2*  C   A 806     176.510  93.868 -66.274  1.00 39.83      A16S
ATOM  16898  O2*  C   A 806     176.201  94.023 -67.641  1.00 39.83      A16S
ATOM  16899  C3*  C   A 806     176.183  95.129 -65.498  1.00 39.83      A16S
ATOM  16900  O3*  C   A 806     174.982  95.724 -65.949  1.00 39.83      A16S
ATOM  16901  P    A   A 807     173.608  95.389 -65.195  1.00 43.66      A16S
ATOM  16902  O1P  A   A 807     172.614  96.277 -65.840  1.00 37.35      A16S
ATOM  16903  O2P  A   A 807     173.785  95.431 -63.717  1.00 37.35      A16S
ATOM  16904  O5*  A   A 807     173.324  93.888 -65.621  1.00 43.66      A16S
ATOM  16905  C5*  A   A 807     173.102  93.585 -66.991  1.00 43.66      A16S
ATOM  16906  C4*  A   A 807     172.886  92.118 -67.172  1.00 43.66      A16S
ATOM  16907  O4*  A   A 807     174.122  91.417 -66.944  1.00 43.66      A16S
ATOM  16908  C1*  A   A 807     173.842  90.122 -66.454  1.00 43.66      A16S
ATOM  16909  N9   A   A 807     174.610  89.908 -65.234  1.00 37.35      A16S
ATOM  16910  C4   A   A 807     174.934  88.688 -64.704  1.00 37.35      A16S
ATOM  16911  N3   A   A 807     174.612  87.486 -65.185  1.00 37.35      A16S
ATOM  16912  C2   A   A 807     175.096  86.527 -64.403  1.00 37.35      A16S
ATOM  16913  N1   A   A 807     175.800  86.625 -63.282  1.00 37.35      A16S
ATOM  16914  C6   A   A 807     176.094  87.849 -62.823  1.00 37.35      A16S
ATOM  16915  N6   A   A 807     176.765  87.953 -61.682  1.00 37.35      A16S
ATOM  16916  C5   A   A 807     175.660  88.949 -63.566  1.00 37.35      A16S
ATOM  16917  N7   A   A 807     175.802  90.316 -63.379  1.00 37.35      A16S
ATOM  16918  C8   A   A 807     175.157  90.838 -64.395  1.00 37.35      A16S
ATOM  16919  C2*  A   A 807     172.329  89.999 -66.280  1.00 43.66      A16S
ATOM  16920  O2*  A   A 807     171.831  89.329 -67.417  1.00 43.66      A16S
ATOM  16921  C3*  A   A 807     171.906  91.462 -66.224  1.00 43.66      A16S
ATOM  16922  O3*  A   A 807     170.565  91.687 -66.636  1.00 43.66      A16S
ATOM  16923  P    C   A 808     169.437  91.971 -65.529  1.00 46.53      A16S
ATOM  16924  O1P  C   A 808     168.241  92.466 -66.253  1.00 45.81      A16S
ATOM  16925  O2P  C   A 808     170.003  92.778 -64.395  1.00 45.81      A16S
ATOM  16926  O5*  C   A 808     169.111  90.511 -64.994  1.00 46.53      A16S
ATOM  16927  C5*  C   A 808     168.625  89.514 -65.893  1.00 46.53      A16S
ATOM  16928  C4*  C   A 808     168.813  88.146 -65.308  1.00 46.53      A16S
ATOM  16929  O4*  C   A 808     170.219  87.814 -65.290  1.00 46.53      A16S
ATOM  16930  C1*  C   A 808     170.486  86.945 -64.207  1.00 46.53      A16S
ATOM  16931  N1   C   A 808     171.439  87.597 -63.302  1.00 45.81      A16S
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ATOM  16932  C6  C   A 808     171.592  88.954 -63.294  1.00 45.81      A16S
ATOM  16933  C2  C   A 808     172.165  86.800 -62.415  1.00 45.81      A16S
ATOM  16934  O2  C   A 808     172.049  85.567 -62.485  1.00 45.81      A16S
ATOM  16935  N3  C   A 808     172.979  87.391 -61.509  1.00 45.81      A16S
ATOM  16936  C4  C   A 808     173.094  88.720 -61.486  1.00 45.81      A16S
ATOM  16937  N4  C   A 808     173.887  89.264 -60.561  1.00 45.81      A16S
ATOM  16938  C5  C   A 808     172.397  89.552 -62.410  1.00 45.81      A16S
ATOM  16939  C2* C   A 808     169.166  86.709 -63.486  1.00 46.53      A16S
ATOM  16940  O2* C   A 808     168.519  85.574 -64.018  1.00 46.53      A16S
ATOM  16941  C3* C   A 808     168.399  87.953 -63.866  1.00 46.53      A16S
ATOM  16942  O3* C   A 808     167.022  87.763 -63.682  1.00 46.53      A16S
ATOM  16943  P   G   A 809     166.345  88.302 -62.330  1.00 60.16      A16S
ATOM  16944  O1P G   A 809     164.886  88.269 -62.592  1.00 44.71      A16S
ATOM  16945  O2P G   A 809     166.990  89.577 -61.920  1.00 44.71      A16S
ATOM  16946  O5* G   A 809     166.731  87.205 -61.241  1.00 60.16      A16S
ATOM  16947  C5* G   A 809     166.292  85.859 -61.403  1.00 60.16      A16S
ATOM  16948  C4* G   A 809     166.994  84.949 -60.438  1.00 60.16      A16S
ATOM  16949  O4* G   A 809     168.420  84.981 -60.682  1.00 60.16      A16S
ATOM  16950  C1* G   A 809     169.108  84.693 -59.479  1.00 60.16      A16S
ATOM  16951  N9  G   A 809     170.010  85.794 -59.154  1.00 44.71      A16S
ATOM  16952  C4  G   A 809     171.001  85.748 -58.217  1.00 44.71      A16S
ATOM  16953  N3  G   A 809     171.317  84.681 -57.469  1.00 44.71      A16S
ATOM  16954  C2  G   A 809     172.327  84.928 -56.667  1.00 44.71      A16S
ATOM  16955  N2  G   A 809     172.792  83.965 -55.885  1.00 44.71      A16S
ATOM  16956  N1  G   A 809     172.959  86.136 -56.582  1.00 44.71      A16S
ATOM  16957  C6  G   A 809     172.640  87.255 -57.336  1.00 44.71      A16S
ATOM  16958  O6  G   A 809     173.266  88.303 -57.168  1.00 44.71      A16S
ATOM  16959  C5  G   A 809     171.576  86.995 -58.224  1.00 44.71      A16S
ATOM  16960  N7  G   A 809     170.965  87.813 -59.158  1.00 44.71      A16S
ATOM  16961  C8  G   A 809     170.041  87.059 -59.688  1.00 44.71      A16S
ATOM  16962  C2* G   A 809     168.058  84.501 -58.388  1.00 60.16      A16S
ATOM  16963  O2* G   A 809     167.778  83.120 -58.258  1.00 60.16      A16S
ATOM  16964  C3* G   A 809     166.875  85.264 -58.962  1.00 60.16      A16S
ATOM  16965  O3* G   A 809     165.663  84.807 -58.400  1.00 60.16      A16S
ATOM  16966  P   C   A 810     165.027  85.592 -57.150  1.00 42.00      A16S
ATOM  16967  O1P C   A 810     163.861  84.770 -56.711  1.00 34.09      A16S
ATOM  16968  O2P C   A 810     164.814  87.016 -57.541  1.00 34.09      A16S
ATOM  16969  O5* C   A 810     166.154  85.532 -56.011  1.00 42.00      A16S
ATOM  16970  C5* C   A 810     166.239  84.377 -55.164  1.00 42.00      A16S
ATOM  16971  C4* C   A 810     167.492  84.371 -54.303  1.00 42.00      A16S
ATOM  16972  O4* C   A 810     168.648  84.903 -54.989  1.00 42.00      A16S
ATOM  16973  C1* C   A 810     169.666  85.134 -54.039  1.00 42.00      A16S
ATOM  16974  N1  C   A 810     170.312  86.427 -54.277  1.00 34.09      A16S
ATOM  16975  C6  C   A 810     169.792  87.343 -55.143  1.00 34.09      A16S
ATOM  16976  C2  C   A 810     171.477  86.718 -53.566  1.00 34.09      A16S
ATOM  16977  O2  C   A 810     171.958  85.844 -52.823  1.00 34.09      A16S
ATOM  16978  N3  C   A 810     172.055  87.936 -53.705  1.00 34.09      A16S
ATOM  16979  C4  C   A 810     171.520  88.831 -54.528  1.00 34.09      A16S
ATOM  16980  N4  C   A 810     172.098  90.010 -54.615  1.00 34.09      A16S
ATOM  16981  C5  C   A 810     170.359  88.548 -55.295  1.00 34.09      A16S
ATOM  16982  C2* C   A 810     169.019  85.090 -52.661  1.00 42.00      A16S
ATOM  16983  O2* C   A 810     169.432  83.871 -52.086  1.00 42.00      A16S
ATOM  16984  C3* C   A 810     167.526  85.132 -52.994  1.00 42.00      A16S
ATOM  16985  O3* C   A 810     166.786  84.447 -51.988  1.00 42.00      A16S
ATOM  16986  P   C   A 811     166.199  85.262 -50.729  1.00 33.51      A16S
ATOM  16987  O1P C   A 811     165.491  84.269 -49.863  1.00 29.82      A16S
ATOM  16988  O2P C   A 811     165.482  86.464 -51.232  1.00 29.82      A16S
ATOM  16989  O5* C   A 811     167.477  85.769 -49.925  1.00 33.51      A16S
ATOM  16990  C5* C   A 811     168.280  84.854 -49.157  1.00 33.51      A16S
ATOM  16991  C4* C   A 811     169.476  85.571 -48.597  1.00 33.51      A16S
ATOM  16992  O4* C   A 811     170.168  86.194 -49.693  1.00 33.51      A16S
ATOM  16993  C1* C   A 811     170.756  87.391 -49.252  1.00 33.51      A16S
ATOM  16994  N1  C   A 811     170.468  88.469 -50.191  1.00 29.82      A16S
ATOM  16995  C6  C   A 811     169.540  88.342 -51.184  1.00 29.82      A16S
ATOM  16996  C2  C   A 811     171.183  89.624 -50.050  1.00 29.82      A16S
ATOM  16997  O2  C   A 811     171.997  89.691 -49.114  1.00 29.82      A16S
ATOM  16998  N3  C   A 811     170.984  90.644 -50.923  1.00 29.82      A16S
ATOM  16999  C4  C   A 811     170.096  90.505 -51.908  1.00 29.82      A16S
ATOM  17000  N4  C   A 811     169.948  91.507 -52.763  1.00 29.82      A16S
ATOM  17001  C5  C   A 811     169.328  89.327 -52.060  1.00 29.82      A16S
ATOM  17002  C2* C   A 811     170.312  87.672 -47.828  1.00 33.51      A16S
ATOM  17003  O2* C   A 811     171.403  87.389 -46.996  1.00 33.51      A16S
ATOM  17004  C3* C   A 811     169.143  86.718 -47.666  1.00 33.51      A16S
ATOM  17005  O3* C   A 811     169.110  86.232 -46.350  1.00 33.51      A16S
ATOM  17006  P   C   A 812     167.913  86.649 -45.386  1.00 45.01      A16S
ATOM  17007  O1P C   A 812     168.345  86.182 -44.045  1.00 27.67      A16S
ATOM  17008  O2P C   A 812     166.612  86.192 -45.953  1.00 27.67      A16S
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ATOM  17009  O5* C   A 812     167.923  88.235 -45.420  1.00 45.01      A16S
ATOM  17010  C5* C   A 812     168.544  88.975 -44.374  1.00 45.01      A16S
ATOM  17011  C4* C   A 812     168.205  90.429 -44.507  1.00 45.01      A16S
ATOM  17012  O4* C   A 812     168.563  90.836 -45.837  1.00 45.01      A16S
ATOM  17013  C1* C   A 812     167.691  91.848 -46.271  1.00 45.01      A16S
ATOM  17014  N1  C   A 812     167.281  91.559 -47.648  1.00 27.67      A16S
ATOM  17015  C6  C   A 812     166.732  90.361 -47.974  1.00 27.67      A16S
ATOM  17016  C2  C   A 812     167.501  92.529 -48.638  1.00 27.67      A16S
ATOM  17017  O2  C   A 812     167.997  93.625 -48.321  1.00 27.67      A16S
ATOM  17018  N3  C   A 812     167.180  92.250 -49.914  1.00 27.67      A16S
ATOM  17019  C4  C   A 812     166.676  91.062 -50.224  1.00 27.67      A16S
ATOM  17020  N4  C   A 812     166.414  90.812 -51.503  1.00 27.67      A16S
ATOM  17021  C5  C   A 812     166.427  90.071 -49.241  1.00 27.67      A16S
ATOM  17022  C2* C   A 812     166.627  92.076 -45.201  1.00 45.01      A16S
ATOM  17023  O2* C   A 812     167.055  93.212 -44.480  1.00 45.01      A16S
ATOM  17024  C3* C   A 812     166.741  90.806 -44.371  1.00 45.01      A16S
ATOM  17025  O3* C   A 812     166.410  90.880 -42.968  1.00 45.01      A16S
ATOM  17026  P   U   A 813     166.303  92.294 -42.179  1.00 31.26      A16S
ATOM  17027  O1P U   A 813     165.890  91.858 -40.822  1.00 32.26      A16S
ATOM  17028  O2P U   A 813     165.496  93.330 -42.887  1.00 32.26      A16S
ATOM  17029  O5* U   A 813     167.798  92.801 -42.029  1.00 31.26      A16S
ATOM  17030  C5* U   A 813     168.705  92.095 -41.187  1.00 31.26      A16S
ATOM  17031  C4* U   A 813     170.058  92.735 -41.248  1.00 31.26      A16S
ATOM  17032  O4* U   A 813     170.474  92.837 -42.633  1.00 31.26      A16S
ATOM  17033  C1* U   A 813     171.303  93.964 -42.802  1.00 31.26      A16S
ATOM  17034  N1  U   A 813     170.806  94.753 -43.934  1.00 32.26      A16S
ATOM  17035  C6  U   A 813     169.506  94.679 -44.332  1.00 32.26      A16S
ATOM  17036  C2  U   A 813     171.701  95.586 -44.585  1.00 32.26      A16S
ATOM  17037  O2  U   A 813     172.885  95.653 -44.296  1.00 32.26      A16S
ATOM  17038  N3  U   A 813     171.163  96.329 -45.599  1.00 32.26      A16S
ATOM  17039  C4  U   A 813     169.866  96.304 -46.035  1.00 32.26      A16S
ATOM  17040  O4  U   A 813     169.533  97.021 -46.972  1.00 32.26      A16S
ATOM  17041  C5  U   A 813     169.019  95.402 -45.334  1.00 32.26      A16S
ATOM  17042  C2* U   A 813     171.341  94.712 -41.471  1.00 31.26      A16S
ATOM  17043  O2* U   A 813     172.532  94.366 -40.793  1.00 31.26      A16S
ATOM  17044  C3* U   A 813     170.109  94.161 -40.766  1.00 31.26      A16S
ATOM  17045  O3* U   A 813     170.223  94.199 -39.361  1.00 31.26      A16S
ATOM  17046  P   A   A 814     169.555  95.417 -38.557  1.00 32.12      A16S
ATOM  17047  O1P A   A 814     168.205  95.630 -39.137  1.00 21.22      A16S
ATOM  17048  O2P A   A 814     169.704  95.148 -37.100  1.00 21.22      A16S
ATOM  17049  O5* A   A 814     170.428  96.684 -38.953  1.00 32.12      A16S
ATOM  17050  C5* A   A 814     171.743  96.810 -38.450  1.00 32.12      A16S
ATOM  17051  C4* A   A 814     172.412  98.014 -39.031  1.00 32.12      A16S
ATOM  17052  O4* A   A 814     172.688  97.820 -40.429  1.00 32.12      A16S
ATOM  17053  C1* A   A 814     172.820  99.078 -41.045  1.00 32.12      A16S
ATOM  17054  N9  A   A 814     172.012  99.098 -42.257  1.00 21.22      A16S
ATOM  17055  C4  A   A 814     172.172  99.971 -43.290  1.00 21.22      A16S
ATOM  17056  N3  A   A 814     173.087 100.936 -43.389  1.00 21.22      A16S
ATOM  17057  C2  A   A 814     172.922 101.609 -44.529  1.00 21.22      A16S
ATOM  17058  N1  A   A 814     172.011 101.433 -45.497  1.00 21.22      A16S
ATOM  17059  C6  A   A 814     171.114 100.439 -45.351  1.00 21.22      A16S
ATOM  17060  N6  A   A 814     170.203 100.247 -46.301  1.00 21.22      A16S
ATOM  17061  C5  A   A 814     171.189  99.660 -44.203  1.00 21.22      A16S
ATOM  17062  N7  A   A 814     170.437  98.589 -43.770  1.00 21.22      A16S
ATOM  17063  C8  A   A 814     170.964  98.293 -42.609  1.00 21.22      A16S
ATOM  17064  C2* A   A 814     172.410 100.137 -40.023  1.00 32.12      A16S
ATOM  17065  O2* A   A 814     173.579 100.665 -39.434  1.00 32.12      A16S
ATOM  17066  C3* A   A 814     171.647  99.312 -39.003  1.00 32.12      A16S
ATOM  17067  O3* A   A 814     171.751  99.908 -37.733  1.00 32.12      A16S
ATOM  17068  P   A   A 815     170.521 100.760 -37.147  1.00 30.20      A16S
ATOM  17069  O1P A   A 815     169.368 100.612 -38.060  1.00 16.63      A16S
ATOM  17070  O2P A   A 815     170.408 100.338 -35.715  1.00 16.63      A16S
ATOM  17071  O5* A   A 815     171.012 102.272 -37.210  1.00 30.20      A16S
ATOM  17072  C5* A   A 815     172.121 102.702 -36.406  1.00 30.20      A16S
ATOM  17073  C4* A   A 815     172.679 103.977 -36.958  1.00 30.20      A16S
ATOM  17074  O4* A   A 815     173.555 104.611 -35.999  1.00 30.20      A16S
ATOM  17075  C1* A   A 815     174.731 105.035 -36.647  1.00 30.20      A16S
ATOM  17076  N9  A   A 815     175.800 105.049 -35.656  1.00 16.63      A16S
ATOM  17077  C4  A   A 815     176.526 106.146 -35.293  1.00 16.63      A16S
ATOM  17078  N3  A   A 815     176.436 107.378 -35.805  1.00 16.63      A16S
ATOM  17079  C2  A   A 815     177.258 108.200 -35.162  1.00 16.63      A16S
ATOM  17080  N1  A   A 815     178.093 107.939 -34.152  1.00 16.63      A16S
ATOM  17081  C6  A   A 815     178.166 106.679 -33.685  1.00 16.63      A16S
ATOM  17082  N6  A   A 815     179.009 106.402 -32.697  1.00 16.63      A16S
ATOM  17083  C5  A   A 815     177.352 105.730 -34.267  1.00 16.63      A16S
ATOM  17084  N7  A   A 815     177.182 104.386 -34.014  1.00 16.63      A16S
ATOM  17085  C8  A   A 815     176.255 104.026 -34.869  1.00 16.63      A16S
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ATOM  17086  C2* A   A 815     174.901 104.096 -37.836  1.00 30.20      A16S
ATOM  17087  O2* A   A 815     175.681 104.724 -38.832  1.00 30.20      A16S
ATOM  17088  C3* A   A 815     173.448 103.887 -38.259  1.00 30.20      A16S
ATOM  17089  O3* A   A 815     173.031 104.979 -39.029  1.00 30.20      A16S
ATOM  17090  P   A   A 816     172.791 104.783 -40.587  1.00 36.51      A16S
ATOM  17091  O1P A   A 816     172.158 106.045 -41.074  1.00 21.73      A16S
ATOM  17092  O2P A   A 816     174.091 104.330 -41.159  1.00 21.73      A16S
ATOM  17093  O5* A   A 816     171.792 103.543 -40.679  1.00 36.51      A16S
ATOM  17094  C5* A   A 816     170.381 103.689 -40.458  1.00 36.51      A16S
ATOM  17095  C4* A   A 816     169.622 103.410 -41.738  1.00 36.51      A16S
ATOM  17096  O4* A   A 816     169.845 102.049 -42.189  1.00 36.51      A16S
ATOM  17097  C1* A   A 816     168.709 101.598 -42.904  1.00 36.51      A16S
ATOM  17098  N9  A   A 816     168.278 100.310 -42.366  1.00 21.73      A16S
ATOM  17099  C4  A   A 816     167.663  99.323 -43.087  1.00 21.73      A16S
ATOM  17100  N3  A   A 816     167.307  99.371 -44.375  1.00 21.73      A16S
ATOM  17101  C2  A   A 816     166.754  98.219 -44.741  1.00 21.73      A16S
ATOM  17102  N1  A   A 816     166.547  97.108 -44.018  1.00 21.73      A16S
ATOM  17103  C6  A   A 816     166.930  97.101 -42.727  1.00 21.73      A16S
ATOM  17104  N6  A   A 816     166.756  95.986 -42.015  1.00 21.73      A16S
ATOM  17105  C5  A   A 816     167.502  98.261 -42.218  1.00 21.73      A16S
ATOM  17106  N7  A   A 816     167.966  98.584 -40.961  1.00 21.73      A16S
ATOM  17107  C8  A   A 816     168.411  99.812 -41.098  1.00 21.73      A16S
ATOM  17108  C2* A   A 816     167.647 102.686 -42.833  1.00 36.51      A16S
ATOM  17109  O2* A   A 816     167.730 103.461 -44.000  1.00 36.51      A16S
ATOM  17110  C3* A   A 816     168.113 103.502 -41.643  1.00 36.51      A16S
ATOM  17111  O3* A   A 816     167.669 104.838 -41.740  1.00 36.51      A16S
ATOM  17112  P   C   A 817     166.795 105.439 -40.551  1.00 28.35      A16S
ATOM  17113  O1P C   A 817     165.514 105.903 -41.117  1.00 24.70      A16S
ATOM  17114  O2P C   A 817     166.788 104.410 -39.468  1.00 24.70      A16S
ATOM  17115  O5* C   A 817     167.567 106.742 -40.086  1.00 28.35      A16S
ATOM  17116  C5* C   A 817     166.954 108.010 -40.288  1.00 28.35      A16S
ATOM  17117  C4* C   A 817     167.878 109.104 -39.876  1.00 28.35      A16S
ATOM  17118  O4* C   A 817     168.281 108.826 -38.529  1.00 28.35      A16S
ATOM  17119  C1* C   A 817     169.673 108.852 -38.439  1.00 28.35      A16S
ATOM  17120  N1  C   A 817     170.072 107.878 -37.429  1.00 24.70      A16S
ATOM  17121  C6  C   A 817     169.424 106.688 -37.313  1.00 24.70      A16S
ATOM  17122  C2  C   A 817     171.119 108.212 -36.545  1.00 24.70      A16S
ATOM  17123  O2  C   A 817     171.712 109.306 -36.681  1.00 24.70      A16S
ATOM  17124  N3  C   A 817     171.446 107.354 -35.568  1.00 24.70      A16S
ATOM  17125  C4  C   A 817     170.777 106.215 -35.441  1.00 24.70      A16S
ATOM  17126  N4  C   A 817     171.100 105.424 -34.432  1.00 24.70      A16S
ATOM  17127  C5  C   A 817     169.735 105.840 -36.339  1.00 24.70      A16S
ATOM  17128  C2* C   A 817     170.234 108.648 -39.839  1.00 28.35      A16S
ATOM  17129  O2* C   A 817     171.440 109.408 -39.931  1.00 28.35      A16S
ATOM  17130  C3* C   A 817     169.146 109.289 -40.695  1.00 28.35      A16S
ATOM  17131  O3* C   A 817     169.407 110.673 -40.760  1.00 28.35      A16S
ATOM  17132  P   G   A 818     168.562 111.601 -41.748  1.00 34.91      A16S
ATOM  17133  O1P G   A 818     167.389 110.843 -42.248  1.00 48.62      A16S
ATOM  17134  O2P G   A 818     169.500 112.220 -42.709  1.00 48.62      A16S
ATOM  17135  O5* G   A 818     168.027 112.744 -40.780  1.00 34.91      A16S
ATOM  17136  C5* G   A 818     168.939 113.605 -40.077  1.00 34.91      A16S
ATOM  17137  C4* G   A 818     168.325 114.087 -38.780  1.00 34.91      A16S
ATOM  17138  O4* G   A 818     167.007 114.632 -39.076  1.00 34.91      A16S
ATOM  17139  C1* G   A 818     166.071 114.066 -38.194  1.00 34.91      A16S
ATOM  17140  N9  G   A 818     164.754 114.096 -38.807  1.00 48.62      A16S
ATOM  17141  C4  G   A 818     163.640 114.650 -38.238  1.00 48.62      A16S
ATOM  17142  N3  G   A 818     163.583 115.222 -37.024  1.00 48.62      A16S
ATOM  17143  C2  G   A 818     162.375 115.635 -36.730  1.00 48.62      A16S
ATOM  17144  N2  G   A 818     162.135 116.153 -35.522  1.00 48.62      A16S
ATOM  17145  N1  G   A 818     161.316 115.549 -37.581  1.00 48.62      A16S
ATOM  17146  C6  G   A 818     161.351 114.976 -38.840  1.00 48.62      A16S
ATOM  17147  O6  G   A 818     160.326 114.948 -39.526  1.00 48.62      A16S
ATOM  17148  C5  G   A 818     162.637 114.485 -39.153  1.00 48.62      A16S
ATOM  17149  N7  G   A 818     163.108 113.830 -40.282  1.00 48.62      A16S
ATOM  17150  C8  G   A 818     164.371 113.619 -40.030  1.00 48.62      A16S
ATOM  17151  C2* G   A 818     166.646 112.718 -37.774  1.00 34.91      A16S
ATOM  17152  O2* G   A 818     166.045 112.297 -36.564  1.00 34.91      A16S
ATOM  17153  C3* G   A 818     168.131 113.066 -37.656  1.00 34.91      A16S
ATOM  17154  O3* G   A 818     168.321 113.742 -36.405  1.00 34.91      A16S
ATOM  17155  P   A   A 819     169.448 113.252 -35.368  1.00 34.33      A16S
ATOM  17156  O1P A   A 819     169.450 114.195 -34.229  1.00 29.44      A16S
ATOM  17157  O2P A   A 819     170.662 113.108 -36.189  1.00 29.44      A16S
ATOM  17158  O5* A   A 819     168.948 111.828 -34.836  1.00 34.33      A16S
ATOM  17159  C5* A   A 819     168.562 110.835 -35.796  1.00 34.33      A16S
ATOM  17160  C4* A   A 819     168.143 109.533 -35.162  1.00 34.33      A16S
ATOM  17161  O4* A   A 819     169.258 108.835 -34.584  1.00 34.33      A16S
ATOM  17162  C1* A   A 819     168.896 108.295 -33.340  1.00 34.33      A16S
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ATOM  17163  N9  A   A 819     170.033 108.521 -32.456  1.00 29.44      A16S
ATOM  17164  C4  A   A 819     170.560 107.690 -31.502  1.00 29.44      A16S
ATOM  17165  N3  A   A 819     170.137 106.470 -31.148  1.00 29.44      A16S
ATOM  17166  C2  A   A 819     170.898 105.977 -30.174  1.00 29.44      A16S
ATOM  17167  N1  A   A 819     171.948 106.516 -29.572  1.00 29.44      A16S
ATOM  17168  C6  A   A 819     172.345 107.741 -29.965  1.00 29.44      A16S
ATOM  17169  N6  A   A 819     173.401 108.300 -29.384  1.00 29.44      A16S
ATOM  17170  C5  A   A 819     171.629 108.369 -30.968  1.00 29.44      A16S
ATOM  17171  N7  A   A 819     171.782 109.603 -31.569  1.00 29.44      A16S
ATOM  17172  C8  A   A 819     170.810 109.646 -32.438  1.00 29.44      A16S
ATOM  17173  C2* A   A 819     167.647 109.044 -32.877  1.00 34.33      A16S
ATOM  17174  O2* A   A 819     166.839 108.157 -32.128  1.00 34.33      A16S
ATOM  17175  C3* A   A 819     166.983 109.462 -34.193  1.00 34.33      A16S
ATOM  17176  O3* A   A 819     166.103 108.457 -34.671  1.00 34.33      A16S
ATOM  17177  P   U   A 820     165.089 108.799 -35.872  1.00 28.94      A16S
ATOM  17178  O1P U   A 820     164.549 107.488 -36.302  1.00 42.57      A16S
ATOM  17179  O2P U   A 820     165.723 109.691 -36.863  1.00 42.57      A16S
ATOM  17180  O5* U   A 820     163.931 109.647 -35.185  1.00 28.94      A16S
ATOM  17181  C5* U   A 820     162.918 109.025 -34.361  1.00 28.94      A16S
ATOM  17182  C4* U   A 820     161.817 110.013 -34.088  1.00 28.94      A16S
ATOM  17183  O4* U   A 820     162.417 111.173 -33.452  1.00 28.94      A16S
ATOM  17184  C1* U   A 820     162.088 112.324 -34.199  1.00 28.94      A16S
ATOM  17185  N1  U   A 820     163.106 113.355 -33.963  1.00 42.57      A16S
ATOM  17186  C6  U   A 820     164.302 113.376 -34.626  1.00 42.57      A16S
ATOM  17187  C2  U   A 820     162.809 114.298 -33.025  1.00 42.57      A16S
ATOM  17188  O2  U   A 820     161.759 114.312 -32.425  1.00 42.57      A16S
ATOM  17189  N3  U   A 820     163.785 115.226 -32.807  1.00 42.57      A16S
ATOM  17190  C4  U   A 820     164.998 115.304 -33.426  1.00 42.57      A16S
ATOM  17191  O4  U   A 820     165.751 116.229 -33.154  1.00 42.57      A16S
ATOM  17192  C5  U   A 820     165.235 114.296 -34.394  1.00 42.57      A16S
ATOM  17193  C2* U   A 820     161.850 111.835 -35.624  1.00 28.94      A16S
ATOM  17194  O2* U   A 820     161.050 112.739 -36.346  1.00 28.94      A16S
ATOM  17195  C3* U   A 820     161.117 110.529 -35.348  1.00 28.94      A16S
ATOM  17196  O3* U   A 820     159.778 110.935 -35.066  1.00 28.94      A16S
ATOM  17197  P   G   A 821     158.614 109.854 -34.859  1.00 36.74      A16S
ATOM  17198  O1P G   A 821     157.554 110.595 -34.137  1.00 30.99      A16S
ATOM  17199  O2P G   A 821     159.158 108.608 -34.295  1.00 30.99      A16S
ATOM  17200  O5* G   A 821     158.069 109.553 -36.313  1.00 36.74      A16S
ATOM  17201  C5* G   A 821     158.718 108.596 -37.123  1.00 36.74      A16S
ATOM  17202  C4* G   A 821     157.703 107.778 -37.856  1.00 36.74      A16S
ATOM  17203  O4* G   A 821     157.004 106.891 -36.952  1.00 36.74      A16S
ATOM  17204  C1* G   A 821     155.675 106.725 -37.407  1.00 36.74      A16S
ATOM  17205  N9  G   A 821     154.772 107.145 -36.348  1.00 30.99      A16S
ATOM  17206  C4  G   A 821     153.406 106.995 -36.328  1.00 30.99      A16S
ATOM  17207  N3  G   A 821     152.657 106.427 -37.288  1.00 30.99      A16S
ATOM  17208  C2  G   A 821     151.372 106.466 -36.996  1.00 30.99      A16S
ATOM  17209  N2  G   A 821     150.459 105.964 -37.857  1.00 30.99      A16S
ATOM  17210  N1  G   A 821     150.874 107.005 -35.854  1.00 30.99      A16S
ATOM  17211  C6  G   A 821     151.625 107.593 -34.858  1.00 30.99      A16S
ATOM  17212  O6  G   A 821     151.067 108.066 -33.876  1.00 30.99      A16S
ATOM  17213  C5  G   A 821     152.996 107.564 -35.153  1.00 30.99      A16S
ATOM  17214  N7  G   A 821     154.079 108.052 -34.436  1.00 30.99      A16S
ATOM  17215  C8  G   A 821     155.110 107.779 -35.183  1.00 30.99      A16S
ATOM  17216  C2* G   A 821     155.501 107.568 -38.673  1.00 36.74      A16S
ATOM  17217  O2* G   A 821     155.741 106.772 -39.809  1.00 36.74      A16S
ATOM  17218  C3* G   A 821     156.612 108.584 -38.523  1.00 36.74      A16S
ATOM  17219  O3* G   A 821     157.045 109.066 -39.773  1.00 36.74      A16S
ATOM  17220  P   C   A 822     156.459 110.446 -40.312  1.00 34.41      A16S
ATOM  17221  O1P C   A 822     157.156 110.811 -41.576  1.00 35.92      A16S
ATOM  17222  O2P C   A 822     156.456 111.390 -39.168  1.00 35.92      A16S
ATOM  17223  O5* C   A 822     154.980 110.057 -40.702  1.00 34.41      A16S
ATOM  17224  C5* C   A 822     154.770 109.105 -41.731  1.00 34.41      A16S
ATOM  17225  C4* C   A 822     153.310 108.925 -41.974  1.00 34.41      A16S
ATOM  17226  O4* C   A 822     152.699 108.164 -40.902  1.00 34.41      A16S
ATOM  17227  C1* C   A 822     151.375 108.622 -40.702  1.00 34.41      A16S
ATOM  17228  N1  C   A 822     151.253 109.139 -39.338  1.00 35.92      A16S
ATOM  17229  C6  C   A 822     152.359 109.459 -38.610  1.00 35.92      A16S
ATOM  17230  C2  C   A 822     149.983 109.320 -38.803  1.00 35.92      A16S
ATOM  17231  O2  C   A 822     148.999 108.993 -39.473  1.00 35.92      A16S
ATOM  17232  N3  C   A 822     149.856 109.843 -37.569  1.00 35.92      A16S
ATOM  17233  C4  C   A 822     150.941 110.164 -36.871  1.00 35.92      A16S
ATOM  17234  N4  C   A 822     150.777 110.671 -35.659  1.00 35.92      A16S
ATOM  17235  C5  C   A 822     152.249 109.973 -37.385  1.00 35.92      A16S
ATOM  17236  C2* C   A 822     151.121 109.727 -41.725  1.00 34.41      A16S
ATOM  17237  O2* C   A 822     150.568 109.129 -42.876  1.00 34.41      A16S
ATOM  17238  C3* C   A 822     152.529 110.212 -42.002  1.00 34.41      A16S
ATOM  17239  O3* C   A 822     152.651 110.851 -43.242  1.00 34.41      A16S
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ATOM  17240  P    G   A 823     152.394 112.423 -43.329  1.00 42.86      A16S
ATOM  17241  O1P  G   A 823     152.608 112.795 -44.748  1.00 26.64      A16S
ATOM  17242  O2P  G   A 823     153.170 113.103 -42.265  1.00 26.64      A16S
ATOM  17243  O5*  G   A 823     150.847 112.545 -42.987  1.00 42.86      A16S
ATOM  17244  C5*  G   A 823     149.883 111.938 -43.849  1.00 42.86      A16S
ATOM  17245  C4*  G   A 823     148.491 112.214 -43.360  1.00 42.86      A16S
ATOM  17246  O4*  G   A 823     148.236 111.488 -42.130  1.00 42.86      A16S
ATOM  17247  C1*  G   A 823     147.299 112.205 -41.347  1.00 42.86      A16S
ATOM  17248  N9   G   A 823     147.874 112.465 -40.030  1.00 26.64      A16S
ATOM  17249  C4   G   A 823     147.167 112.694 -38.885  1.00 26.64      A16S
ATOM  17250  N3   G   A 823     145.828 112.717 -38.782  1.00 26.64      A16S
ATOM  17251  C2   G   A 823     145.434 112.980 -37.551  1.00 26.64      A16S
ATOM  17252  N2   G   A 823     144.123 113.069 -37.272  1.00 26.64      A16S
ATOM  17253  N1   G   A 823     146.290 113.184 -36.506  1.00 26.64      A16S
ATOM  17254  C6   G   A 823     147.669 113.160 -36.590  1.00 26.64      A16S
ATOM  17255  O6   G   A 823     148.339 113.365 -35.582  1.00 26.64      A16S
ATOM  17256  C5   G   A 823     148.107 112.891 -37.901  1.00 26.64      A16S
ATOM  17257  N7   G   A 823     149.388 112.784 -38.415  1.00 26.64      A16S
ATOM  17258  C8   G   A 823     149.201 112.531 -39.683  1.00 26.64      A16S
ATOM  17259  C2*  G   A 823     146.952 113.488 -42.106  1.00 42.86      A16S
ATOM  17260  O2*  G   A 823     145.786 113.299 -42.895  1.00 42.86      A16S
ATOM  17261  C3*  G   A 823     148.165 113.650 -43.004  1.00 42.86      A16S
ATOM  17262  O3*  G   A 823     147.866 114.463 -44.122  1.00 42.86      A16S
ATOM  17263  P    C   A 824     148.039 116.053 -43.989  1.00 40.03      A16S
ATOM  17264  O1P  C   A 824     147.872 116.670 -45.330  1.00 33.17      A16S
ATOM  17265  O2P  C   A 824     149.257 116.320 -43.205  1.00 33.17      A16S
ATOM  17266  O5*  C   A 824     146.823 116.484 -43.065  1.00 40.03      A16S
ATOM  17267  C5*  C   A 824     145.474 116.272 -43.493  1.00 40.03      A16S
ATOM  17268  C4*  C   A 824     144.524 116.730 -42.426  1.00 40.03      A16S
ATOM  17269  O4*  C   A 824     144.574 115.831 -41.289  1.00 40.03      A16S
ATOM  17270  C1*  C   A 824     144.379 116.560 -40.104  1.00 40.03      A16S
ATOM  17271  N1   C   A 824     145.561 116.402 -39.250  1.00 33.17      A16S
ATOM  17272  C6   C   A 824     146.791 116.128 -39.775  1.00 33.17      A16S
ATOM  17273  C2   C   A 824     145.411 116.576 -37.876  1.00 33.17      A16S
ATOM  17274  O2   C   A 824     144.274 116.744 -37.420  1.00 33.17      A16S
ATOM  17275  N3   C   A 824     146.500 116.548 -37.078  1.00 33.17      A16S
ATOM  17276  C4   C   A 824     147.695 116.328 -37.603  1.00 33.17      A16S
ATOM  17277  N4   C   A 824     148.736 116.358 -36.790  1.00 33.17      A16S
ATOM  17278  C5   C   A 824     147.873 116.081 -38.993  1.00 33.17      A16S
ATOM  17279  C2*  C   A 824     144.168 118.024 -40.492  1.00 40.03      A16S
ATOM  17280  O2*  C   A 824     142.788 118.285 -40.623  1.00 40.03      A16S
ATOM  17281  C3*  C   A 824     144.841 118.088 -41.847  1.00 40.03      A16S
ATOM  17282  O3*  C   A 824     144.314 119.124 -42.649  1.00 40.03      A16S
ATOM  17283  P    G   A 825     144.962 120.593 -42.564  1.00 37.83      A16S
ATOM  17284  O1P  G   A 825     144.424 121.366 -43.703  1.00 30.13      A16S
ATOM  17285  O2P  G   A 825     146.434 120.466 -42.393  1.00 30.13      A16S
ATOM  17286  O5*  G   A 825     144.365 121.201 -41.220  1.00 37.83      A16S
ATOM  17287  C5*  G   A 825     142.956 121.372 -41.076  1.00 37.83      A16S
ATOM  17288  C4*  G   A 825     142.609 121.680 -39.652  1.00 37.83      A16S
ATOM  17289  O4*  G   A 825     142.927 120.553 -38.797  1.00 37.83      A16S
ATOM  17290  C1*  G   A 825     143.267 121.022 -37.507  1.00 37.83      A16S
ATOM  17291  N9   G   A 825     144.603 120.550 -37.164  1.00 30.13      A16S
ATOM  17292  C4   G   A 825     145.207 120.658 -35.936  1.00 30.13      A16S
ATOM  17293  N3   G   A 825     144.644 121.151 -34.820  1.00 30.13      A16S
ATOM  17294  C2   G   A 825     145.487 121.168 -33.807  1.00 30.13      A16S
ATOM  17295  N2   G   A 825     145.093 121.627 -32.619  1.00 30.13      A16S
ATOM  17296  N1   G   A 825     146.774 120.743 -33.885  1.00 30.13      A16S
ATOM  17297  C6   G   A 825     147.377 120.240 -35.024  1.00 30.13      A16S
ATOM  17298  O6   G   A 825     148.564 119.915 -34.991  1.00 30.13      A16S
ATOM  17299  C5   G   A 825     146.482 120.195 -36.113  1.00 30.13      A16S
ATOM  17300  N7   G   A 825     146.667 119.747 -37.411  1.00 30.13      A16S
ATOM  17301  C8   G   A 825     145.522 119.967 -37.995  1.00 30.13      A16S
ATOM  17302  C2*  G   A 825     143.204 122.554 -37.544  1.00 37.83      A16S
ATOM  17303  O2*  G   A 825     141.949 122.970 -37.045  1.00 37.83      A16S
ATOM  17304  C3*  G   A 825     143.345 122.846 -39.032  1.00 37.83      A16S
ATOM  17305  O3*  G   A 825     142.725 124.066 -39.396  1.00 37.83      A16S
ATOM  17306  P    C   A 826     143.583 125.425 -39.427  1.00 38.42      A16S
ATOM  17307  O1P  C   A 826     142.706 126.486 -39.975  1.00 35.49      A16S
ATOM  17308  O2P  C   A 826     144.875 125.148 -40.079  1.00 35.49      A16S
ATOM  17309  O5*  C   A 826     143.898 125.741 -37.899  1.00 38.42      A16S
ATOM  17310  C5*  C   A 826     142.855 126.099 -37.002  1.00 38.42      A16S
ATOM  17311  C4*  C   A 826     143.397 126.237 -35.608  1.00 38.42      A16S
ATOM  17312  O4*  C   A 826     143.878 124.954 -35.143  1.00 38.42      A16S
ATOM  17313  C1*  C   A 826     144.967 125.148 -34.261  1.00 38.42      A16S
ATOM  17314  N1   C   A 826     146.146 124.472 -34.819  1.00 35.49      A16S
ATOM  17315  C6   C   A 826     146.160 124.049 -36.117  1.00 35.49      A16S
ATOM  17316  C2   C   A 826     147.268 124.283 -34.006  1.00 35.49      A16S
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ATOM  17317  O2  C   A 826     147.212 124.618 -32.824  1.00 35.49      A16S
ATOM  17318  N3  C   A 826     148.376 123.731 -34.527  1.00 35.49      A16S
ATOM  17319  C4  C   A 826     148.386 123.341 -35.798  1.00 35.49      A16S
ATOM  17320  N4  C   A 826     149.505 122.811 -36.277  1.00 35.49      A16S
ATOM  17321  C5  C   A 826     147.247 123.482 -36.639  1.00 35.49      A16S
ATOM  17322  C2* C   A 826     145.196 126.656 -34.131  1.00 38.42      A16S
ATOM  17323  O2* C   A 826     144.542 127.131 -32.969  1.00 38.42      A16S
ATOM  17324  C3* C   A 826     144.564 127.191 -35.410  1.00 38.42      A16S
ATOM  17325  O3* C   A 826     144.095 128.519 -35.203  1.00 38.42      A16S
ATOM  17326  P   U   A 827     145.014 129.779 -35.605  1.00 33.80      A16S
ATOM  17327  O1P U   A 827     144.221 130.997 -35.276  1.00 35.58      A16S
ATOM  17328  O2P U   A 827     145.513 129.592 -36.998  1.00 35.58      A16S
ATOM  17329  O5* U   A 827     146.221 129.747 -34.564  1.00 33.80      A16S
ATOM  17330  C5* U   A 827     146.119 130.485 -33.344  1.00 33.80      A16S
ATOM  17331  C4* U   A 827     147.334 130.283 -32.482  1.00 33.80      A16S
ATOM  17332  O4* U   A 827     147.593 128.871 -32.352  1.00 33.80      A16S
ATOM  17333  C1* U   A 827     148.983 128.656 -32.192  1.00 33.80      A16S
ATOM  17334  N1  U   A 827     149.442 127.764 -33.269  1.00 35.58      A16S
ATOM  17335  C6  U   A 827     148.646 127.508 -34.355  1.00 35.58      A16S
ATOM  17336  C2  U   A 827     150.693 127.195 -33.159  1.00 35.58      A16S
ATOM  17337  O2  U   A 827     151.430 127.405 -32.227  1.00 35.58      A16S
ATOM  17338  N3  U   A 827     151.048 126.379 -34.194  1.00 35.58      A16S
ATOM  17339  C4  U   A 827     150.301 126.093 -35.319  1.00 35.58      A16S
ATOM  17340  O4  U   A 827     150.803 125.437 -36.238  1.00 35.58      A16S
ATOM  17341  C5  U   A 827     149.021 126.717 -35.353  1.00 35.58      A16S
ATOM  17342  C2* U   A 827     149.661 130.028 -32.189  1.00 33.80      A16S
ATOM  17343  O2* U   A 827     149.767 130.478 -30.853  1.00 33.80      A16S
ATOM  17344  C3* U   A 827     148.651 130.877 -32.946  1.00 33.80      A16S
ATOM  17345  O3* U   A 827     148.775 132.231 -32.528  1.00 33.80      A16S
ATOM  17346  P   A   A 828     148.932 133.395 -33.623  1.00 49.62      A16S
ATOM  17347  O1P A   A 828     149.127 134.630 -32.817  1.00 65.05      A16S
ATOM  17348  O2P A   A 828     147.831 133.326 -34.615  1.00 65.05      A16S
ATOM  17349  O5* A   A 828     150.276 133.036 -34.398  1.00 49.62      A16S
ATOM  17350  C5* A   A 828     151.557 133.219 -33.770  1.00 49.62      A16S
ATOM  17351  C4* A   A 828     151.970 134.672 -33.850  1.00 49.62      A16S
ATOM  17352  O4* A   A 828     152.951 134.952 -32.820  1.00 49.62      A16S
ATOM  17353  C1* A   A 828     153.841 135.950 -33.272  1.00 49.62      A16S
ATOM  17354  N9  A   A 828     155.170 135.358 -33.365  1.00 65.05      A16S
ATOM  17355  C4  A   A 828     156.353 135.976 -33.082  1.00 65.05      A16S
ATOM  17356  N3  A   A 828     156.523 137.216 -32.617  1.00 65.05      A16S
ATOM  17357  C2  A   A 828     157.814 137.483 -32.471  1.00 65.05      A16S
ATOM  17358  N1  A   A 828     158.871 136.713 -32.728  1.00 65.05      A16S
ATOM  17359  C6  A   A 828     158.664 135.474 -33.210  1.00 65.05      A16S
ATOM  17360  N6  A   A 828     159.725 134.714 -33.493  1.00 65.05      A16S
ATOM  17361  C5  A   A 828     157.338 135.065 -33.392  1.00 65.05      A16S
ATOM  17362  N7  A   A 828     156.784 133.878 -33.839  1.00 65.05      A16S
ATOM  17363  C8  A   A 828     155.498 134.099 -33.793  1.00 65.05      A16S
ATOM  17364  C2* A   A 828     153.363 136.390 -34.655  1.00 49.62      A16S
ATOM  17365  O2* A   A 828     152.479 137.482 -34.539  1.00 49.62      A16S
ATOM  17366  C3* A   A 828     152.621 135.157 -35.132  1.00 49.62      A16S
ATOM  17367  O3* A   A 828     151.708 135.506 -36.150  1.00 49.62      A16S
ATOM  17368  P   G   A 829     152.260 135.795 -37.638  1.00 54.61      A16S
ATOM  17369  O1P G   A 829     151.101 136.155 -38.501  1.00 60.91      A16S
ATOM  17370  O2P G   A 829     153.161 134.686 -38.045  1.00 60.91      A16S
ATOM  17371  O5* G   A 829     153.155 137.097 -37.469  1.00 54.61      A16S
ATOM  17372  C5* G   A 829     154.176 137.410 -38.418  1.00 54.61      A16S
ATOM  17373  C4* G   A 829     155.336 138.057 -37.721  1.00 54.61      A16S
ATOM  17374  O4* G   A 829     155.714 137.233 -36.596  1.00 54.61      A16S
ATOM  17375  C1* G   A 829     157.124 137.182 -36.491  1.00 54.61      A16S
ATOM  17376  N9  G   A 829     157.534 135.811 -36.776  1.00 60.91      A16S
ATOM  17377  C4  G   A 829     158.784 135.283 -36.617  1.00 60.91      A16S
ATOM  17378  N3  G   A 829     159.862 135.939 -36.163  1.00 60.91      A16S
ATOM  17379  C2  G   A 829     160.925 135.170 -36.136  1.00 60.91      A16S
ATOM  17380  N2  G   A 829     162.091 135.673 -35.738  1.00 60.91      A16S
ATOM  17381  N1  G   A 829     160.926 133.854 -36.502  1.00 60.91      A16S
ATOM  17382  C6  G   A 829     159.822 133.155 -36.965  1.00 60.91      A16S
ATOM  17383  O6  G   A 829     159.925 131.959 -37.254  1.00 60.91      A16S
ATOM  17384  C5  G   A 829     158.683 133.975 -37.026  1.00 60.91      A16S
ATOM  17385  N7  G   A 829     157.396 133.686 -37.446  1.00 60.91      A16S
ATOM  17386  C8  G   A 829     156.747 134.802 -37.273  1.00 60.91      A16S
ATOM  17387  C2* G   A 829     157.694 138.161 -37.521  1.00 54.61      A16S
ATOM  17388  O2* G   A 829     157.914 139.423 -36.926  1.00 54.61      A16S
ATOM  17389  C3* G   A 829     156.590 138.182 -38.564  1.00 54.61      A16S
ATOM  17390  O3* G   A 829     156.589 139.371 -39.331  1.00 54.61      A16S
ATOM  17391  P   G   A 830     157.340 139.400 -40.751  1.00 61.81      A16S
ATOM  17392  O1P G   A 830     157.135 140.759 -41.313  1.00 65.38      A16S
ATOM  17393  O2P G   A 830     156.935 138.207 -41.544  1.00 65.38      A16S
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ATOM  17394  O5*  G   A 830     158.877 139.255 -40.366  1.00 61.81      A16S
ATOM  17395  C5*  G   A 830     159.503 140.224 -39.518  1.00 61.81      A16S
ATOM  17396  C4*  G   A 830     160.962 139.900 -39.337  1.00 61.81      A16S
ATOM  17397  O4*  G   A 830     161.134 138.742 -38.478  1.00 61.81      A16S
ATOM  17398  C1*  G   A 830     162.280 138.010 -38.890  1.00 61.81      A16S
ATOM  17399  N9   G   A 830     161.862 136.666 -39.289  1.00 65.38      A16S
ATOM  17400  C4   G   A 830     162.661 135.548 -39.349  1.00 65.38      A16S
ATOM  17401  N3   G   A 830     163.964 135.490 -39.021  1.00 65.38      A16S
ATOM  17402  C2   G   A 830     164.458 134.282 -39.187  1.00 65.38      A16S
ATOM  17403  N2   G   A 830     165.735 134.041 -38.885  1.00 65.38      A16S
ATOM  17404  N1   G   A 830     163.740 133.221 -39.655  1.00 65.38      A16S
ATOM  17405  C6   G   A 830     162.403 133.257 -40.011  1.00 65.38      A16S
ATOM  17406  O6   G   A 830     161.855 132.236 -40.447  1.00 65.38      A16S
ATOM  17407  C5   G   A 830     161.850 134.543 -39.818  1.00 65.38      A16S
ATOM  17408  N7   G   A 830     160.561 135.010 -40.036  1.00 65.38      A16S
ATOM  17409  C8   G   A 830     160.614 136.270 -39.704  1.00 65.38      A16S
ATOM  17410  C2*  G   A 830     162.902 138.763 -40.068  1.00 61.81      A16S
ATOM  17411  O2*  G   A 830     163.923 139.629 -39.619  1.00 61.81      A16S
ATOM  17412  C3*  G   A 830     161.707 139.534 -40.600  1.00 61.81      A16S
ATOM  17413  O3*  G   A 830     162.098 140.665 -41.330  1.00 61.81      A16S
ATOM  17414  P    U   A 831     162.359 140.523 -42.900  1.00 62.72      A16S
ATOM  17415  O1P  U   A 831     162.879 141.845 -43.319  1.00 58.71      A16S
ATOM  17416  O2P  U   A 831     161.155 139.956 -43.578  1.00 58.71      A16S
ATOM  17417  O5*  U   A 831     163.563 139.485 -42.971  1.00 62.72      A16S
ATOM  17418  C5*  U   A 831     164.853 139.854 -42.468  1.00 62.72      A16S
ATOM  17419  C4*  U   A 831     165.834 138.730 -42.646  1.00 62.72      A16S
ATOM  17420  O4*  U   A 831     165.491 137.640 -41.762  1.00 62.72      A16S
ATOM  17421  C1*  U   A 831     165.821 136.406 -42.377  1.00 62.72      A16S
ATOM  17422  N1   U   A 831     164.584 135.637 -42.590  1.00 58.71      A16S
ATOM  17423  C6   U   A 831     163.383 136.258 -42.844  1.00 58.71      A16S
ATOM  17424  C2   U   A 831     164.671 134.260 -42.545  1.00 58.71      A16S
ATOM  17425  O2   U   A 831     165.709 133.671 -42.308  1.00 58.71      A16S
ATOM  17426  N3   U   A 831     163.494 133.598 -42.788  1.00 58.71      A16S
ATOM  17427  C4   U   A 831     162.266 134.160 -43.063  1.00 58.71      A16S
ATOM  17428  O4   U   A 831     161.304 133.428 -43.291  1.00 58.71      A16S
ATOM  17429  C5   U   A 831     162.255 135.585 -43.075  1.00 58.71      A16S
ATOM  17430  C2*  U   A 831     166.490 136.730 -43.708  1.00 62.72      A16S
ATOM  17431  O2*  U   A 831     167.889 136.806 -43.526  1.00 62.72      A16S
ATOM  17432  C3*  U   A 831     165.888 138.087 -44.017  1.00 62.72      A16S
ATOM  17433  O3*  U   A 831     166.678 138.805 -44.934  1.00 62.72      A16S
ATOM  17434  P    C   A 832     166.429 138.604 -46.506  1.00 52.95      A16S
ATOM  17435  O1P  C   A 832     167.141 139.748 -47.143  1.00 52.35      A16S
ATOM  17436  O2P  C   A 832     164.978 138.405 -46.772  1.00 52.35      A16S
ATOM  17437  O5*  C   A 832     167.171 137.229 -46.833  1.00 52.95      A16S
ATOM  17438  C5*  C   A 832     168.556 137.039 -46.475  1.00 52.95      A16S
ATOM  17439  C4*  C   A 832     169.009 135.629 -46.788  1.00 52.95      A16S
ATOM  17440  O4*  C   A 832     168.565 134.692 -45.767  1.00 52.95      A16S
ATOM  17441  C1*  C   A 832     168.343 133.420 -46.361  1.00 52.95      A16S
ATOM  17442  N1   C   A 832     166.915 133.061 -46.235  1.00 52.35      A16S
ATOM  17443  C6   C   A 832     165.955 134.020 -46.069  1.00 52.35      A16S
ATOM  17444  C2   C   A 832     166.553 131.717 -46.330  1.00 52.35      A16S
ATOM  17445  O2   C   A 832     167.440 130.861 -46.430  1.00 52.35      A16S
ATOM  17446  N3   C   A 832     165.246 131.384 -46.306  1.00 52.35      A16S
ATOM  17447  C4   C   A 832     164.318 132.330 -46.178  1.00 52.35      A16S
ATOM  17448  N4   C   A 832     163.039 131.957 -46.192  1.00 52.35      A16S
ATOM  17449  C5   C   A 832     164.659 133.701 -46.038  1.00 52.35      A16S
ATOM  17450  C2*  C   A 832     168.704 133.535 -47.845  1.00 52.95      A16S
ATOM  17451  O2*  C   A 832     170.031 133.114 -48.077  1.00 52.95      A16S
ATOM  17452  C3*  C   A 832     168.522 135.023 -48.091  1.00 52.95      A16S
ATOM  17453  O3*  C   A 832     169.245 135.433 -49.227  1.00 52.95      A16S
ATOM  17454  P    U   A 833     168.512 135.445 -50.657  1.00 41.07      A16S
ATOM  17455  O1P  U   A 833     169.467 136.019 -51.646  1.00 81.87      A16S
ATOM  17456  O2P  U   A 833     167.160 136.053 -50.504  1.00 81.87      A16S
ATOM  17457  O5*  U   A 833     168.292 133.906 -51.001  1.00 41.07      A16S
ATOM  17458  C5*  U   A 833     169.408 133.030 -51.150  1.00 41.07      A16S
ATOM  17459  C4*  U   A 833     168.946 131.605 -51.300  1.00 41.07      A16S
ATOM  17460  O4*  U   A 833     168.238 131.186 -50.108  1.00 41.07      A16S
ATOM  17461  C1*  U   A 833     167.281 130.196 -50.451  1.00 41.07      A16S
ATOM  17462  N1   U   A 833     165.948 130.633 -50.005  1.00 81.87      A16S
ATOM  17463  C6   U   A 833     165.626 131.965 -49.869  1.00 81.87      A16S
ATOM  17464  C2   U   A 833     165.011 129.651 -49.755  1.00 81.87      A16S
ATOM  17465  O2   U   A 833     165.263 128.467 -49.815  1.00 81.87      A16S
ATOM  17466  N3   U   A 833     163.764 130.108 -49.425  1.00 81.87      A16S
ATOM  17467  C4   U   A 833     163.366 131.419 -49.304  1.00 81.87      A16S
ATOM  17468  O4   U   A 833     162.180 131.671 -49.067  1.00 81.87      A16S
ATOM  17469  C5   U   A 833     164.402 132.379 -49.537  1.00 81.87      A16S
ATOM  17470  C2*  U   A 833     167.341 129.998 -51.968  1.00 41.07      A16S
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ATOM  17471  O2*  U   A 833     168.116 128.859 -52.273  1.00 41.07      A16S
ATOM  17472  C3*  U   A 833     167.990 131.294 -52.432  1.00 41.07      A16S
ATOM  17473  O3*  U   A 833     168.677 131.100 -53.645  1.00 41.07      A16S
ATOM  17474  P    C   A 834     167.852 131.035 -55.016  1.00 43.33      A16S
ATOM  17475  O1P  C   A 834     168.832 131.072 -56.131  1.00 52.27      A16S
ATOM  17476  O2P  C   A 834     166.750 132.034 -54.978  1.00 52.27      A16S
ATOM  17477  O5*  C   A 834     167.170 129.601 -54.984  1.00 43.33      A16S
ATOM  17478  C5*  C   A 834     167.897 128.434 -55.359  1.00 43.33      A16S
ATOM  17479  C4*  C   A 834     166.947 127.288 -55.571  1.00 43.33      A16S
ATOM  17480  O4*  C   A 834     166.268 127.003 -54.320  1.00 43.33      A16S
ATOM  17481  C1*  C   A 834     164.933 126.612 -54.593  1.00 43.33      A16S
ATOM  17482  N1   C   A 834     164.012 127.539 -53.909  1.00 52.27      A16S
ATOM  17483  C6   C   A 834     164.433 128.768 -53.489  1.00 52.27      A16S
ATOM  17484  C2   C   A 834     162.694 127.138 -53.692  1.00 52.27      A16S
ATOM  17485  O2   C   A 834     162.331 126.020 -54.080  1.00 52.27      A16S
ATOM  17486  N3   C   A 834     161.846 127.974 -53.064  1.00 52.27      A16S
ATOM  17487  C4   C   A 834     162.268 129.167 -52.657  1.00 52.27      A16S
ATOM  17488  N4   C   A 834     161.392 129.957 -52.042  1.00 52.27      A16S
ATOM  17489  C5   C   A 834     163.602 129.603 -52.863  1.00 52.27      A16S
ATOM  17490  C2*  C   A 834     164.746 126.584 -56.112  1.00 43.33      A16S
ATOM  17491  O2*  C   A 834     164.970 125.274 -56.595  1.00 43.33      A16S
ATOM  17492  C3*  C   A 834     165.831 127.541 -56.572  1.00 43.33      A16S
ATOM  17493  O3*  C   A 834     166.228 127.225 -57.887  1.00 43.33      A16S
ATOM  17494  P    U   A 835     165.420 127.844 -59.123  1.00 39.99      A16S
ATOM  17495  O1P  U   A 835     165.915 127.251 -60.387  1.00 56.65      A16S
ATOM  17496  O2P  U   A 835     165.432 129.314 -58.956  1.00 56.65      A16S
ATOM  17497  O5*  U   A 835     163.935 127.323 -58.924  1.00 39.99      A16S
ATOM  17498  C5*  U   A 835     163.538 126.062 -59.458  1.00 39.99      A16S
ATOM  17499  C4*  U   A 835     162.063 125.851 -59.258  1.00 39.99      A16S
ATOM  17500  O4*  U   A 835     161.767 125.879 -57.835  1.00 39.99      A16S
ATOM  17501  C1*  U   A 835     160.465 126.397 -57.628  1.00 39.99      A16S
ATOM  17502  N1   U   A 835     160.558 127.622 -56.828  1.00 56.65      A16S
ATOM  17503  C6   U   A 835     161.690 128.388 -56.829  1.00 56.65      A16S
ATOM  17504  C2   U   A 835     159.449 127.992 -56.099  1.00 56.65      A16S
ATOM  17505  O2   U   A 835     158.436 127.318 -56.042  1.00 56.65      A16S
ATOM  17506  N3   U   A 835     159.568 129.180 -55.434  1.00 56.65      A16S
ATOM  17507  C4   U   A 835     160.665 130.009 -55.413  1.00 56.65      A16S
ATOM  17508  O4   U   A 835     160.612 131.070 -54.789  1.00 56.65      A16S
ATOM  17509  C5   U   A 835     161.781 129.537 -56.166  1.00 56.65      A16S
ATOM  17510  C2*  U   A 835     159.879 126.727 -58.996  1.00 39.99      A16S
ATOM  17511  O2*  U   A 835     159.059 125.656 -59.430  1.00 39.99      A16S
ATOM  17512  C3*  U   A 835     161.143 126.916 -59.822  1.00 39.99      A16S
ATOM  17513  O3*  U   A 835     160.908 126.816 -61.211  1.00 39.99      A16S
ATOM  17514  P    G   A 836     160.454 128.128 -62.013  1.00 55.40      A16S
ATOM  17515  O1P  G   A 836     160.432 127.706 -63.439  1.00 49.23      A16S
ATOM  17516  O2P  G   A 836     161.320 129.260 -61.593  1.00 49.23      A16S
ATOM  17517  O5*  G   A 836     158.955 128.403 -61.515  1.00 55.40      A16S
ATOM  17518  C5*  G   A 836     157.891 127.562 -62.008  1.00 55.40      A16S
ATOM  17519  C4*  G   A 836     156.522 127.902 -61.420  1.00 55.40      A16S
ATOM  17520  O4*  G   A 836     156.472 127.751 -59.977  1.00 55.40      A16S
ATOM  17521  C1*  G   A 836     155.299 128.380 -59.492  1.00 55.40      A16S
ATOM  17522  N9   G   A 836     155.652 129.381 -58.497  1.00 49.23      A16S
ATOM  17523  C4   G   A 836     154.764 130.063 -57.711  1.00 49.23      A16S
ATOM  17524  N3   G   A 836     153.428 129.888 -57.700  1.00 49.23      A16S
ATOM  17525  C2   G   A 836     152.829 130.704 -56.855  1.00 49.23      A16S
ATOM  17526  N2   G   A 836     151.498 130.637 -56.716  1.00 49.23      A16S
ATOM  17527  N1   G   A 836     153.492 131.637 -56.087  1.00 49.23      A16S
ATOM  17528  C6   G   A 836     154.870 131.833 -56.089  1.00 49.23      A16S
ATOM  17529  O6   G   A 836     155.375 132.698 -55.363  1.00 49.23      A16S
ATOM  17530  C5   G   A 836     155.521 130.950 -56.984  1.00 49.23      A16S
ATOM  17531  N7   G   A 836     156.865 130.809 -57.286  1.00 49.23      A16S
ATOM  17532  C8   G   A 836     156.895 129.862 -58.184  1.00 49.23      A16S
ATOM  17533  C2*  G   A 836     154.641 129.083 -60.674  1.00 55.40      A16S
ATOM  17534  O2*  G   A 836     153.623 128.242 -61.186  1.00 55.40      A16S
ATOM  17535  C3*  G   A 836     155.803 129.221 -61.653  1.00 55.40      A16S
ATOM  17536  O3*  G   A 836     155.254 129.373 -62.956  1.00 55.40      A16S
ATOM  17537  P    G   A 837     154.862 130.847 -63.485  1.00 64.83      A16S
ATOM  17538  O1P  G   A 837     154.389 130.655 -64.884  1.00 58.71      A16S
ATOM  17539  O2P  G   A 837     155.968 131.800 -63.204  1.00 58.71      A16S
ATOM  17540  O5*  G   A 837     153.647 131.315 -62.561  1.00 64.83      A16S
ATOM  17541  C5*  G   A 837     152.290 130.902 -62.839  1.00 64.83      A16S
ATOM  17542  C4*  G   A 837     151.318 131.627 -61.930  1.00 64.83      A16S
ATOM  17543  O4*  G   A 837     151.643 131.323 -60.552  1.00 64.83      A16S
ATOM  17544  C1*  G   A 837     151.407 132.456 -59.741  1.00 64.83      A16S
ATOM  17545  N9   G   A 837     152.689 132.932 -59.250  1.00 58.71      A16S
ATOM  17546  C4   G   A 837     152.877 133.897 -58.305  1.00 58.71      A16S
ATOM  17547  N3   G   A 837     151.906 134.538 -57.638  1.00 58.71      A16S
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ATOM  17548  C2  G   A 837     152.394 135.443 -56.817  1.00 58.71      A16S
ATOM  17549  N2  G   A 837     151.567 136.177 -56.081  1.00 58.71      A16S
ATOM  17550  N1  G   A 837     153.728 135.697 -56.661  1.00 58.71      A16S
ATOM  17551  C6  G   A 837     154.748 135.052 -57.347  1.00 58.71      A16S
ATOM  17552  O6  G   A 837     155.929 135.376 -57.151  1.00 58.71      A16S
ATOM  17553  C5  G   A 837     154.238 134.073 -58.225  1.00 58.71      A16S
ATOM  17554  N7  G   A 837     154.897 133.205 -59.080  1.00 58.71      A16S
ATOM  17555  C8  G   A 837     153.938 132.543 -59.665  1.00 58.71      A16S
ATOM  17556  C2* G   A 837     150.789 133.532 -60.622  1.00 64.83      A16S
ATOM  17557  O2* G   A 837     149.386 133.438 -60.532  1.00 64.83      A16S
ATOM  17558  C3* G   A 837     151.335 133.147 -61.988  1.00 64.83      A16S
ATOM  17559  O3* G   A 837     150.547 133.667 -63.048  1.00 64.83      A16S
ATOM  17560  P   G   A 838     151.023 134.998 -63.813  1.00 74.48      A16S
ATOM  17561  O1P G   A 838     150.249 135.000 -65.076  1.00 78.06      A16S
ATOM  17562  O2P G   A 838     152.503 135.044 -63.867  1.00 78.06      A16S
ATOM  17563  O5* G   A 838     150.527 136.189 -62.878  1.00 74.48      A16S
ATOM  17564  C5* G   A 838     149.130 136.331 -62.548  1.00 74.48      A16S
ATOM  17565  C4* G   A 838     148.960 137.150 -61.286  1.00 74.48      A16S
ATOM  17566  O4* G   A 838     149.801 136.582 -60.249  1.00 74.48      A16S
ATOM  17567  C1* G   A 838     150.275 137.609 -59.395  1.00 74.48      A16S
ATOM  17568  N9  G   A 838     151.735 137.604 -59.404  1.00 78.06      A16S
ATOM  17569  C4  G   A 838     152.538 138.327 -58.562  1.00 78.06      A16S
ATOM  17570  N3  G   A 838     152.112 139.185 -57.614  1.00 78.06      A16S
ATOM  17571  C2  G   A 838     153.115 139.729 -56.952  1.00 78.06      A16S
ATOM  17572  N2  G   A 838     152.856 140.617 -55.984  1.00 78.06      A16S
ATOM  17573  N1  G   A 838     154.442 139.443 -57.191  1.00 78.06      A16S
ATOM  17574  C6  G   A 838     154.907 138.555 -58.160  1.00 78.06      A16S
ATOM  17575  O6  G   A 838     156.126 138.354 -58.286  1.00 78.06      A16S
ATOM  17576  C5  G   A 838     153.832 137.977 -58.893  1.00 78.06      A16S
ATOM  17577  N7  G   A 838     153.842 137.070 -59.943  1.00 78.06      A16S
ATOM  17578  C8  G   A 838     152.577 136.881 -60.217  1.00 78.06      A16S
ATOM  17579  C2* G   A 838     149.682 138.928 -59.877  1.00 74.48      A16S
ATOM  17580  O2* G   A 838     148.525 139.205 -59.111  1.00 74.48      A16S
ATOM  17581  C3* G   A 838     149.375 138.617 -61.340  1.00 74.48      A16S
ATOM  17582  O3* G   A 838     148.321 139.453 -61.808  1.00 74.48      A16S
ATOM  17583  P   U   A 839     148.576 140.472 -63.027  1.00117.46      A16S
ATOM  17584  O1P U   A 839     147.432 141.419 -63.037  1.00170.75      A16S
ATOM  17585  O2P U   A 839     148.871 139.668 -64.240  1.00170.75      A16S
ATOM  17586  O5* U   A 839     149.890 141.301 -62.652  1.00117.46      A16S
ATOM  17587  C5* U   A 839     150.262 141.604 -61.284  1.00117.46      A16S
ATOM  17588  C4* U   A 839     149.954 143.047 -60.958  1.00117.46      A16S
ATOM  17589  O4* U   A 839     148.530 143.156 -60.705  1.00117.46      A16S
ATOM  17590  C1* U   A 839     148.297 144.145 -59.722  1.00117.46      A16S
ATOM  17591  N1  U   A 839     147.360 143.613 -58.712  1.00170.75      A16S
ATOM  17592  C6  U   A 839     146.012 143.566 -58.999  1.00170.75      A16S
ATOM  17593  C2  U   A 839     147.838 143.174 -57.470  1.00170.75      A16S
ATOM  17594  O2  U   A 839     149.020 143.169 -57.160  1.00170.75      A16S
ATOM  17595  N3  U   A 839     146.865 142.736 -56.603  1.00170.75      A16S
ATOM  17596  C4  U   A 839     145.503 142.681 -56.833  1.00170.75      A16S
ATOM  17597  O4  U   A 839     144.752 142.295 -55.936  1.00170.75      A16S
ATOM  17598  C5  U   A 839     145.097 143.129 -58.129  1.00170.75      A16S
ATOM  17599  C2* U   A 839     149.646 144.707 -59.261  1.00117.46      A16S
ATOM  17600  O2* U   A 839     149.894 145.943 -59.902  1.00117.46      A16S
ATOM  17601  C3* U   A 839     150.615 143.612 -59.701  1.00117.46      A16S
ATOM  17602  O3* U   A 839     151.910 144.146 -60.013  1.00117.46      A16S
ATOM  17603  P   C   A 840     152.816 144.830 -58.861  1.00199.54      A16S
ATOM  17604  O1P C   A 840     151.933 145.528 -57.888  1.00125.50      A16S
ATOM  17605  O2P C   A 840     153.876 145.597 -59.561  1.00125.50      A16S
ATOM  17606  O5* C   A 840     153.508 143.604 -58.109  1.00199.54      A16S
ATOM  17607  C5* C   A 840     154.483 143.817 -57.053  1.00199.54      A16S
ATOM  17608  C4* C   A 840     155.857 143.392 -57.522  1.00199.54      A16S
ATOM  17609  O4* C   A 840     155.735 142.037 -58.016  1.00199.54      A16S
ATOM  17610  C1* C   A 840     156.460 141.892 -59.217  1.00199.54      A16S
ATOM  17611  N1  C   A 840     155.545 141.351 -60.242  1.00125.50      A16S
ATOM  17612  C6  C   A 840     154.318 141.915 -60.456  1.00125.50      A16S
ATOM  17613  C2  C   A 840     155.940 140.218 -60.981  1.00125.50      A16S
ATOM  17614  O2  C   A 840     157.074 139.737 -60.801  1.00125.50      A16S
ATOM  17615  N3  C   A 840     155.077 139.677 -61.871  1.00125.50      A16S
ATOM  17616  C4  C   A 840     153.872 140.221 -62.047  1.00125.50      A16S
ATOM  17617  N4  C   A 840     153.044 139.635 -62.915  1.00125.50      A16S
ATOM  17618  C5  C   A 840     153.459 141.386 -61.336  1.00125.50      A16S
ATOM  17619  C2* C   A 840     157.172 143.213 -59.527  1.00199.54      A16S
ATOM  17620  O2* C   A 840     158.532 143.107 -59.154  1.00199.54      A16S
ATOM  17621  C3* C   A 840     156.387 144.225 -58.685  1.00199.54      A16S
ATOM  17622  O3* C   A 840     157.302 145.252 -58.247  1.00199.54      A16S
ATOM  17623  P   U   A 841     156.888 146.307 -57.089  1.00200.96      A16S
ATOM  17624  O1P U   A 841     155.409 146.399 -56.999  1.00200.96      A16S
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ATOM  17625  O2P U   A 841     157.681 147.543 -57.318  1.00200.96      A16S
ATOM  17626  O5* U   A 841     157.430 145.626 -55.752  1.00200.96      A16S
ATOM  17627  C5* U   A 841     157.800 146.411 -54.592  1.00200.96      A16S
ATOM  17628  C4* U   A 841     159.306 146.444 -54.449  1.00200.96      A16S
ATOM  17629  O4* U   A 841     159.824 147.648 -55.075  1.00200.96      A16S
ATOM  17630  C1* U   A 841     160.995 148.077 -54.393  1.00200.96      A16S
ATOM  17631  N1  U   A 841     160.847 149.488 -53.992  1.00200.96      A16S
ATOM  17632  C6  U   A 841     159.639 150.000 -53.560  1.00200.96      A16S
ATOM  17633  C2  U   A 841     161.980 150.298 -54.055  1.00200.96      A16S
ATOM  17634  O2  U   A 841     163.071 149.896 -54.434  1.00200.96      A16S
ATOM  17635  N3  U   A 841     161.786 151.600 -53.656  1.00200.96      A16S
ATOM  17636  C4  U   A 841     160.609 152.170 -53.212  1.00200.96      A16S
ATOM  17637  O4  U   A 841     160.599 153.359 -52.883  1.00200.96      A16S
ATOM  17638  C5  U   A 841     159.488 151.277 -53.179  1.00200.96      A16S
ATOM  17639  C2* U   A 841     161.234 147.127 -53.218  1.00200.96      A16S
ATOM  17640  O2* U   A 841     162.229 146.186 -53.575  1.00200.96      A16S
ATOM  17641  C3* U   A 841     159.855 146.499 -53.030  1.00200.96      A16S
ATOM  17642  O3* U   A 841     159.969 145.192 -52.472  1.00200.96      A16S
ATOM  17643  P   C   A 848     159.925 144.994 -50.876  1.00199.39      A16S
ATOM  17644  O1P C   A 848     159.933 146.347 -50.246  1.00123.53      A16S
ATOM  17645  O2P C   A 848     160.968 144.002 -50.495  1.00123.53      A16S
ATOM  17646  O5* C   A 848     158.498 144.337 -50.619  1.00199.39      A16S
ATOM  17647  C5* C   A 848     157.328 145.159 -50.485  1.00199.39      A16S
ATOM  17648  C4* C   A 848     156.127 144.478 -51.096  1.00199.39      A16S
ATOM  17649  O4* C   A 848     156.303 144.349 -52.533  1.00199.39      A16S
ATOM  17650  C1* C   A 848     155.623 143.190 -52.990  1.00199.39      A16S
ATOM  17651  N1  C   A 848     156.576 142.291 -53.674  1.00123.53      A16S
ATOM  17652  C6  C   A 848     157.874 142.178 -53.259  1.00123.53      A16S
ATOM  17653  C2  C   A 848     156.115 141.527 -54.760  1.00123.53      A16S
ATOM  17654  O2  C   A 848     154.944 141.658 -55.128  1.00123.53      A16S
ATOM  17655  N3  C   A 848     156.959 140.669 -55.376  1.00123.53      A16S
ATOM  17656  C4  C   A 848     158.219 140.556 -54.954  1.00123.53      A16S
ATOM  17657  N4  C   A 848     159.013 139.684 -55.584  1.00123.53      A16S
ATOM  17658  C5  C   A 848     158.722 141.330 -53.862  1.00123.53      A16S
ATOM  17659  C2* C   A 848     154.975 142.523 -51.777  1.00199.39      A16S
ATOM  17660  O2* C   A 848     153.628 142.938 -51.699  1.00199.39      A16S
ATOM  17661  C3* C   A 848     155.823 143.063 -50.631  1.00199.39      A16S
ATOM  17662  O3* C   A 848     155.136 143.030 -49.385  1.00199.39      A16S
ATOM  17663  P   C   A 849     154.950 141.626 -48.617  1.00123.30      A16S
ATOM  17664  O1P C   A 849     154.429 141.922 -47.255  1.00 77.99      A16S
ATOM  17665  O2P C   A 849     156.189 140.802 -48.770  1.00 77.99      A16S
ATOM  17666  O5* C   A 849     153.772 140.924 -49.423  1.00123.30      A16S
ATOM  17667  C5* C   A 849     152.475 141.540 -49.482  1.00123.30      A16S
ATOM  17668  C4* C   A 849     151.546 140.743 -50.359  1.00123.30      A16S
ATOM  17669  O4* C   A 849     151.955 140.829 -51.745  1.00123.30      A16S
ATOM  17670  C1* C   A 849     151.625 139.624 -52.407  1.00123.30      A16S
ATOM  17671  N1  C   A 849     152.845 139.046 -52.994  1.00 77.99      A16S
ATOM  17672  C6  C   A 849     154.074 139.231 -52.421  1.00 77.99      A16S
ATOM  17673  C2  C   A 849     152.720 138.289 -54.154  1.00 77.99      A16S
ATOM  17674  O2  C   A 849     151.594 138.165 -54.665  1.00 77.99      A16S
ATOM  17675  N3  C   A 849     153.822 137.720 -54.699  1.00 77.99      A16S
ATOM  17676  C4  C   A 849     155.015 137.904 -54.135  1.00 77.99      A16S
ATOM  17677  N4  C   A 849     156.074 137.335 -54.714  1.00 77.99      A16S
ATOM  17678  C5  C   A 849     155.175 138.684 -52.954  1.00 77.99      A16S
ATOM  17679  C2* C   A 849     150.970 138.688 -51.389  1.00123.30      A16S
ATOM  17680  O2* C   A 849     149.563 138.768 -51.495  1.00123.30      A16S
ATOM  17681  C3* C   A 849     151.480 139.256 -50.076  1.00123.30      A16S
ATOM  17682  O3* C   A 849     150.601 138.976 -49.012  1.00123.30      A16S
ATOM  17683  P   U   A 850     150.873 137.699 -48.089  1.00 80.28      A16S
ATOM  17684  O1P U   A 850     149.844 137.747 -47.014  1.00 93.75      A16S
ATOM  17685  O2P U   A 850     152.315 137.678 -47.725  1.00 93.75      A16S
ATOM  17686  O5* U   A 850     150.557 136.469 -49.052  1.00 80.28      A16S
ATOM  17687  C5* U   A 850     149.231 136.284 -49.562  1.00 80.28      A16S
ATOM  17688  C4* U   A 850     149.209 135.253 -50.664  1.00 80.28      A16S
ATOM  17689  O4* U   A 850     149.969 135.713 -51.806  1.00 80.28      A16S
ATOM  17690  C1* U   A 850     150.487 134.596 -52.507  1.00 80.28      A16S
ATOM  17691  N1  U   A 850     151.950 134.721 -52.618  1.00 93.75      A16S
ATOM  17692  C6  U   A 850     152.702 135.369 -51.664  1.00 93.75      A16S
ATOM  17693  C2  U   A 850     152.553 134.152 -53.730  1.00 93.75      A16S
ATOM  17694  O2  U   A 850     151.931 133.560 -54.600  1.00 93.75      A16S
ATOM  17695  N3  U   A 850     153.914 134.298 -53.788  1.00 93.75      A16S
ATOM  17696  C4  U   A 850     154.720 134.930 -52.874  1.00 93.75      A16S
ATOM  17697  O4  U   A 850     155.934 134.975 -53.074  1.00 93.75      A16S
ATOM  17698  C5  U   A 850     154.029 135.487 -51.752  1.00 93.75      A16S
ATOM  17699  C2* U   A 850     150.053 133.339 -51.759  1.00 80.28      A16S
ATOM  17700  O2* U   A 850     148.873 132.860 -52.366  1.00 80.28      A16S
ATOM  17701  C3* U   A 850     149.784 133.884 -50.364  1.00 80.28      A16S
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ATOM  17702  O3*  U   A 850     148.847 133.078 -49.686  1.00 80.28      A16S
ATOM  17703  P    G   A 851     149.363 131.855 -48.781  1.00 86.38      A16S
ATOM  17704  O1P  G   A 851     148.126 131.269 -48.177  1.00 59.97      A16S
ATOM  17705  O2P  G   A 851     150.464 132.318 -47.898  1.00 59.97      A16S
ATOM  17706  O5*  G   A 851     149.951 130.804 -49.831  1.00 86.38      A16S
ATOM  17707  C5*  G   A 851     149.048 129.956 -50.564  1.00 86.38      A16S
ATOM  17708  C4*  G   A 851     149.785 128.929 -51.393  1.00 86.38      A16S
ATOM  17709  O4*  G   A 851     150.456 129.543 -52.518  1.00 86.38      A16S
ATOM  17710  C1*  G   A 851     151.451 128.659 -52.994  1.00 86.38      A16S
ATOM  17711  N9   G   A 851     152.726 129.357 -53.090  1.00 59.97      A16S
ATOM  17712  C4   G   A 851     153.810 128.944 -53.827  1.00 59.97      A16S
ATOM  17713  N3   G   A 851     153.852 127.865 -54.633  1.00 59.97      A16S
ATOM  17714  C2   G   A 851     155.036 127.704 -55.175  1.00 59.97      A16S
ATOM  17715  N2   G   A 851     155.245 126.677 -55.997  1.00 59.97      A16S
ATOM  17716  N1   G   A 851     156.101 128.539 -54.949  1.00 59.97      A16S
ATOM  17717  C6   G   A 851     156.077 129.659 -54.126  1.00 59.97      A16S
ATOM  17718  O6   G   A 851     157.090 130.357 -53.994  1.00 59.97      A16S
ATOM  17719  C5   G   A 851     154.813 129.839 -53.536  1.00 59.97      A16S
ATOM  17720  N7   G   A 851     154.361 130.819 -52.662  1.00 59.97      A16S
ATOM  17721  C8   G   A 851     153.114 130.500 -52.436  1.00 59.97      A16S
ATOM  17722  C2*  G   A 851     151.555 127.504 -51.998  1.00 86.38      A16S
ATOM  17723  O2*  G   A 851     150.856 126.402 -52.521  1.00 86.38      A16S
ATOM  17724  C3*  G   A 851     150.868 128.074 -50.765  1.00 86.38      A16S
ATOM  17725  O3*  G   A 851     150.339 127.015 -49.993  1.00 86.38      A16S
ATOM  17726  P    G   A 852     151.281 126.258 -48.931  1.00 48.84      A16S
ATOM  17727  O1P  G   A 852     150.389 125.309 -48.209  1.00 54.88      A16S
ATOM  17728  O2P  G   A 852     152.079 127.257 -48.163  1.00 54.88      A16S
ATOM  17729  O5*  G   A 852     152.275 125.392 -49.825  1.00 48.84      A16S
ATOM  17730  C5*  G   A 852     151.861 124.116 -50.339  1.00 48.84      A16S
ATOM  17731  C4*  G   A 852     152.954 123.494 -51.165  1.00 48.84      A16S
ATOM  17732  O4*  G   A 852     153.305 124.396 -52.248  1.00 48.84      A16S
ATOM  17733  C1*  G   A 852     154.691 124.284 -52.537  1.00 48.84      A16S
ATOM  17734  N9   G   A 852     155.334 125.556 -52.220  1.00 54.88      A16S
ATOM  17735  C4   G   A 852     156.635 125.903 -52.505  1.00 54.88      A16S
ATOM  17736  N3   G   A 852     157.530 125.144 -53.166  1.00 54.88      A16S
ATOM  17737  C2   G   A 852     158.704 125.740 -53.262  1.00 54.88      A16S
ATOM  17738  N2   G   A 852     159.705 125.135 -53.903  1.00 54.88      A16S
ATOM  17739  N1   G   A 852     158.984 126.973 -52.740  1.00 54.88      A16S
ATOM  17740  C6   G   A 852     158.084 127.771 -52.053  1.00 54.88      A16S
ATOM  17741  O6   G   A 852     158.447 128.862 -51.609  1.00 54.88      A16S
ATOM  17742  C5   G   A 852     156.809 127.154 -51.956  1.00 54.88      A16S
ATOM  17743  N7   G   A 852     155.634 127.601 -51.364  1.00 54.88      A16S
ATOM  17744  C8   G   A 852     154.787 126.624 -51.549  1.00 54.88      A16S
ATOM  17745  C2*  G   A 852     155.249 123.190 -51.630  1.00 48.84      A16S
ATOM  17746  O2*  G   A 852     155.205 121.947 -52.297  1.00 48.84      A16S
ATOM  17747  C3*  G   A 852     154.275 123.242 -50.468  1.00 48.84      A16S
ATOM  17748  O3*  G   A 852     154.310 122.064 -49.703  1.00 48.84      A16S
ATOM  17749  P    G   A 853     155.167 122.054 -48.349  1.00 43.70      A16S
ATOM  17750  O1P  G   A 853     154.898 120.766 -47.676  1.00 52.63      A16S
ATOM  17751  O2P  G   A 853     154.927 123.327 -47.622  1.00 52.63      A16S
ATOM  17752  O5*  G   A 853     156.682 122.084 -48.840  1.00 43.70      A16S
ATOM  17753  C5*  G   A 853     157.215 120.981 -49.577  1.00 43.70      A16S
ATOM  17754  C4*  G   A 853     158.676 121.190 -49.901  1.00 43.70      A16S
ATOM  17755  O4*  G   A 853     158.848 122.300 -50.824  1.00 43.70      A16S
ATOM  17756  C1*  G   A 853     160.149 122.838 -50.671  1.00 43.70      A16S
ATOM  17757  N9   G   A 853     160.078 124.266 -50.366  1.00 52.63      A16S
ATOM  17758  C4   G   A 853     161.139 125.127 -50.405  1.00 52.63      A16S
ATOM  17759  N3   G   A 853     162.383 124.818 -50.807  1.00 52.63      A16S
ATOM  17760  C2   G   A 853     163.202 125.835 -50.698  1.00 52.63      A16S
ATOM  17761  N2   G   A 853     164.467 125.696 -51.085  1.00 52.63      A16S
ATOM  17762  N1   G   A 853     162.842 127.062 -50.211  1.00 52.63      A16S
ATOM  17763  C6   G   A 853     161.566 127.405 -49.785  1.00 52.63      A16S
ATOM  17764  O6   G   A 853     161.350 128.541 -49.340  1.00 52.63      A16S
ATOM  17765  C5   G   A 853     160.664 126.320 -49.925  1.00 52.63      A16S
ATOM  17766  N7   G   A 853     159.312 126.232 -49.645  1.00 52.63      A16S
ATOM  17767  C8   G   A 853     159.004 124.997 -49.934  1.00 52.63      A16S
ATOM  17768  C2*  G   A 853     160.825 122.082 -49.527  1.00 43.70      A16S
ATOM  17769  O2*  G   A 853     161.640 121.066 -50.075  1.00 43.70      A16S
ATOM  17770  C3*  G   A 853     159.629 121.518 -48.768  1.00 43.70      A16S
ATOM  17771  O3*  G   A 853     160.000 120.384 -48.004  1.00 43.70      A16S
ATOM  17772  P    G   A 854     160.702 120.597 -46.573  1.00 37.94      A16S
ATOM  17773  O1P  G   A 854     161.058 119.263 -46.011  1.00 53.60      A16S
ATOM  17774  O2P  G   A 854     159.844 121.523 -45.783  1.00 53.60      A16S
ATOM  17775  O5*  G   A 854     162.069 121.333 -46.929  1.00 37.94      A16S
ATOM  17776  C5*  G   A 854     163.037 120.677 -47.768  1.00 37.94      A16S
ATOM  17777  C4*  G   A 854     164.297 121.496 -47.880  1.00 37.94      A16S
ATOM  17778  O4*  G   A 854     164.050 122.731 -48.597  1.00 37.94      A16S
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ATOM  17779  C1* G   A 854     164.901 123.748 -48.090  1.00 37.94      A16S
ATOM  17780  N9  G   A 854     164.060 124.865 -47.681  1.00 53.60      A16S
ATOM  17781  C4  G   A 854     164.458 126.141 -47.364  1.00 53.60      A16S
ATOM  17782  N3  G   A 854     165.719 126.609 -47.372  1.00 53.60      A16S
ATOM  17783  C2  G   A 854     165.773 127.881 -47.010  1.00 53.60      A16S
ATOM  17784  N2  G   A 854     166.937 128.514 -46.946  1.00 53.60      A16S
ATOM  17785  N1  G   A 854     164.684 128.625 -46.680  1.00 53.60      A16S
ATOM  17786  C6  G   A 854     163.378 128.162 -46.665  1.00 53.60      A16S
ATOM  17787  O6  G   A 854     162.457 128.923 -46.343  1.00 53.60      A16S
ATOM  17788  C5  G   A 854     163.304 126.809 -47.041  1.00 53.60      A16S
ATOM  17789  N7  G   A 854     162.206 125.977 -47.152  1.00 53.60      A16S
ATOM  17790  C8  G   A 854     162.702 124.837 -47.535  1.00 53.60      A16S
ATOM  17791  C2* G   A 854     165.736 123.145 -46.951  1.00 37.94      A16S
ATOM  17792  O2* G   A 854     167.035 122.812 -47.399  1.00 37.94      A16S
ATOM  17793  C3* G   A 854     164.920 121.915 -46.567  1.00 37.94      A16S
ATOM  17794  O3* G   A 854     165.733 120.882 -46.047  1.00 37.94      A16S
ATOM  17795  P   G   A 855     166.170 120.937 -44.513  1.00 41.34      A16S
ATOM  17796  O1P G   A 855     167.281 119.979 -44.269  1.00 42.99      A16S
ATOM  17797  O2P G   A 855     164.925 120.824 -43.708  1.00 42.99      A16S
ATOM  17798  O5* G   A 855     166.755 122.413 -44.405  1.00 41.34      A16S
ATOM  17799  C5* G   A 855     166.727 123.135 -43.181  1.00 41.34      A16S
ATOM  17800  C4* G   A 855     167.743 124.236 -43.217  1.00 41.34      A16S
ATOM  17801  O4* G   A 855     167.417 125.184 -44.269  1.00 41.34      A16S
ATOM  17802  C1* G   A 855     167.771 126.500 -43.853  1.00 41.34      A16S
ATOM  17803  N9  G   A 855     166.573 127.335 -43.837  1.00 42.99      A16S
ATOM  17804  C4  G   A 855     166.531 128.684 -43.604  1.00 42.99      A16S
ATOM  17805  N3  G   A 855     167.592 129.478 -43.378  1.00 42.99      A16S
ATOM  17806  C2  G   A 855     167.231 130.730 -43.184  1.00 42.99      A16S
ATOM  17807  N2  G   A 855     168.154 131.658 -42.959  1.00 42.99      A16S
ATOM  17808  N1  G   A 855     165.934 131.171 -43.195  1.00 42.99      A16S
ATOM  17809  C6  G   A 855     164.824 130.371 -43.408  1.00 42.99      A16S
ATOM  17810  O6  G   A 855     163.693 130.866 -43.366  1.00 42.99      A16S
ATOM  17811  C5  G   A 855     165.196 129.022 -43.638  1.00 42.99      A16S
ATOM  17812  N7  G   A 855     164.414 127.910 -43.902  1.00 42.99      A16S
ATOM  17813  C8  G   A 855     165.273 126.935 -44.018  1.00 42.99      A16S
ATOM  17814  C2* G   A 855     168.376 126.395 -42.452  1.00 41.34      A16S
ATOM  17815  O2* G   A 855     169.785 126.392 -42.550  1.00 41.34      A16S
ATOM  17816  C3* G   A 855     167.787 125.077 -41.963  1.00 41.34      A16S
ATOM  17817  O3* G   A 855     168.537 124.450 -40.948  1.00 41.34      A16S
ATOM  17818  P   C   A 856     168.087 124.642 -39.424  1.00 48.41      A16S
ATOM  17819  O1P C   A 856     168.889 123.741 -38.564  1.00 47.64      A16S
ATOM  17820  O2P C   A 856     166.601 124.593 -39.356  1.00 47.64      A16S
ATOM  17821  O5* C   A 856     168.535 126.135 -39.112  1.00 48.41      A16S
ATOM  17822  C5* C   A 856     169.904 126.520 -39.240  1.00 48.41      A16S
ATOM  17823  C4* C   A 856     170.033 128.014 -39.122  1.00 48.41      A16S
ATOM  17824  O4* C   A 856     169.356 128.646 -40.234  1.00 48.41      A16S
ATOM  17825  C1* C   A 856     168.769 129.854 -39.799  1.00 48.41      A16S
ATOM  17826  N1  C   A 856     167.312 129.756 -39.993  1.00 47.64      A16S
ATOM  17827  C6  C   A 856     166.711 128.547 -40.207  1.00 47.64      A16S
ATOM  17828  C2  C   A 856     166.549 130.920 -39.956  1.00 47.64      A16S
ATOM  17829  O2  C   A 856     167.116 131.999 -39.752  1.00 47.64      A16S
ATOM  17830  N3  C   A 856     165.214 130.842 -40.141  1.00 47.64      A16S
ATOM  17831  C4  C   A 856     164.640 129.662 -40.353  1.00 47.64      A16S
ATOM  17832  N4  C   A 856     163.318 129.634 -40.545  1.00 47.64      A16S
ATOM  17833  C5  C   A 856     165.392 128.456 -40.387  1.00 47.64      A16S
ATOM  17834  C2* C   A 856     169.162 130.062 -38.337  1.00 48.41      A16S
ATOM  17835  O2* C   A 856     170.359 130.791 -38.328  1.00 48.41      A16S
ATOM  17836  C3* C   A 856     169.425 128.641 -37.879  1.00 48.41      A16S
ATOM  17837  O3* C   A 856     170.349 128.615 -36.801  1.00 48.41      A16S
ATOM  17838  P   C   A 857     169.816 128.434 -35.296  1.00 44.59      A16S
ATOM  17839  O1P C   A 857     171.004 128.405 -34.406  1.00 57.12      A16S
ATOM  17840  O2P C   A 857     168.842 127.316 -35.249  1.00 57.12      A16S
ATOM  17841  O5* C   A 857     169.027 129.788 -35.023  1.00 44.59      A16S
ATOM  17842  C5* C   A 857     169.726 131.032 -35.071  1.00 44.59      A16S
ATOM  17843  C4* C   A 857     168.797 132.188 -34.809  1.00 44.59      A16S
ATOM  17844  O4* C   A 857     167.944 132.430 -35.948  1.00 44.59      A16S
ATOM  17845  C1* C   A 857     166.771 133.082 -35.516  1.00 44.59      A16S
ATOM  17846  N1  C   A 857     165.600 132.347 -36.013  1.00 57.12      A16S
ATOM  17847  C6  C   A 857     165.684 131.023 -36.352  1.00 57.12      A16S
ATOM  17848  C2  C   A 857     164.386 133.023 -36.114  1.00 57.12      A16S
ATOM  17849  O2  C   A 857     164.348 134.226 -35.832  1.00 57.12      A16S
ATOM  17850  N3  C   A 857     163.287 132.350 -36.515  1.00 57.12      A16S
ATOM  17851  C4  C   A 857     163.371 131.055 -36.812  1.00 57.12      A16S
ATOM  17852  N4  C   A 857     162.257 130.425 -37.165  1.00 57.12      A16S
ATOM  17853  C5  C   A 857     164.602 130.346 -36.751  1.00 57.12      A16S
ATOM  17854  C2* C   A 857     166.817 133.163 -33.988  1.00 44.59      A16S
ATOM  17855  O2* C   A 857     167.281 134.437 -33.602  1.00 44.59      A16S
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ATOM  17856  C3* C   A 857     167.841 132.098 -33.639  1.00 44.59      A16S
ATOM  17857  O3* C   A 857     168.479 132.425 -32.420  1.00 44.59      A16S
ATOM  17858  P   G   A 858     167.727 132.120 -31.036  1.00 44.69      A16S
ATOM  17859  O1P G   A 858     168.679 132.230 -29.896  1.00 53.85      A16S
ATOM  17860  O2P G   A 858     166.969 130.860 -31.228  1.00 53.85      A16S
ATOM  17861  O5* G   A 858     166.687 133.316 -30.921  1.00 44.69      A16S
ATOM  17862  C5* G   A 858     165.526 133.201 -30.093  1.00 44.69      A16S
ATOM  17863  C4* G   A 858     164.379 133.951 -30.710  1.00 44.69      A16S
ATOM  17864  O4* G   A 858     164.336 133.668 -32.131  1.00 44.69      A16S
ATOM  17865  C1* G   A 858     163.009 133.407 -32.531  1.00 44.69      A16S
ATOM  17866  N9  G   A 858     162.949 131.995 -32.892  1.00 53.85      A16S
ATOM  17867  C4  G   A 858     161.899 131.324 -33.466  1.00 53.85      A16S
ATOM  17868  N3  G   A 858     160.702 131.853 -33.799  1.00 53.85      A16S
ATOM  17869  C2  G   A 858     159.899 130.953 -34.332  1.00 53.85      A16S
ATOM  17870  N2  G   A 858     158.669 131.301 -34.707  1.00 53.85      A16S
ATOM  17871  N1  G   A 858     160.243 129.641 -34.534  1.00 53.85      A16S
ATOM  17872  C6  G   A 858     161.471 129.076 -34.211  1.00 53.85      A16S
ATOM  17873  O6  G   A 858     161.688 127.884 -34.456  1.00 53.85      A16S
ATOM  17874  C5  G   A 858     162.338 130.026 -33.623  1.00 53.85      A16S
ATOM  17875  N7  G   A 858     163.633 129.883 -33.150  1.00 53.85      A16S
ATOM  17876  C8  G   A 858     163.952 131.072 -32.726  1.00 53.85      A16S
ATOM  17877  C2* G   A 858     162.106 133.785 -31.356  1.00 44.69      A16S
ATOM  17878  O2* G   A 858     161.756 135.145 -31.504  1.00 44.69      A16S
ATOM  17879  C3* G   A 858     163.029 133.533 -30.169  1.00 44.69      A16S
ATOM  17880  O3* G   A 858     162.715 134.266 -28.992  1.00 44.69      A16S
ATOM  17881  P   A   A 859     161.657 133.666 -27.938  1.00 39.24      A16S
ATOM  17882  O1P A   A 859     161.666 134.539 -26.740  1.00 61.41      A16S
ATOM  17883  O2P A   A 859     161.896 132.217 -27.771  1.00 61.41      A16S
ATOM  17884  O5* A   A 859     160.270 133.886 -28.686  1.00 39.24      A16S
ATOM  17885  C5* A   A 859     159.897 135.203 -29.126  1.00 39.24      A16S
ATOM  17886  C4* A   A 859     158.411 135.427 -28.968  1.00 39.24      A16S
ATOM  17887  O4* A   A 859     157.683 135.055 -30.167  1.00 39.24      A16S
ATOM  17888  C1* A   A 859     156.358 134.725 -29.805  1.00 39.24      A16S
ATOM  17889  N9  A   A 859     156.025 133.403 -30.320  1.00 61.41      A16S
ATOM  17890  C4  A   A 859     154.743 132.948 -30.505  1.00 61.41      A16S
ATOM  17891  N3  A   A 859     153.603 133.621 -30.281  1.00 61.41      A16S
ATOM  17892  C2  A   A 859     152.550 132.861 -30.555  1.00 61.41      A16S
ATOM  17893  N1  A   A 859     152.508 131.599 -30.989  1.00 61.41      A16S
ATOM  17894  C6  A   A 859     153.671 130.947 -31.194  1.00 61.41      A16S
ATOM  17895  N6  A   A 859     153.626 129.680 -31.605  1.00 61.41      A16S
ATOM  17896  C5  A   A 859     154.864 131.649 -30.949  1.00 61.41      A16S
ATOM  17897  N7  A   A 859     156.200 131.294 -31.061  1.00 61.41      A16S
ATOM  17898  C8  A   A 859     156.845 132.372 -30.681  1.00 61.41      A16S
ATOM  17899  C2* A   A 859     156.247 134.768 -28.275  1.00 39.24      A16S
ATOM  17900  O2* A   A 859     155.625 135.969 -27.869  1.00 39.24      A16S
ATOM  17901  C3* A   A 859     157.702 134.693 -27.842  1.00 39.24      A16S
ATOM  17902  O3* A   A 859     157.890 135.306 -26.578  1.00 39.24      A16S
ATOM  17903  P   A   A 860     157.967 134.388 -25.254  1.00 38.77      A16S
ATOM  17904  O1P A   A 860     158.017 135.291 -24.075  1.00 59.79      A16S
ATOM  17905  O2P A   A 860     159.038 133.362 -25.418  1.00 59.79      A16S
ATOM  17906  O5* A   A 860     156.568 133.621 -25.247  1.00 38.77      A16S
ATOM  17907  C5* A   A 860     155.341 134.311 -24.939  1.00 38.77      A16S
ATOM  17908  C4* A   A 860     154.148 133.419 -25.200  1.00 38.77      A16S
ATOM  17909  O4* A   A 860     154.075 133.098 -26.614  1.00 38.77      A16S
ATOM  17910  C1* A   A 860     153.520 131.806 -26.780  1.00 38.77      A16S
ATOM  17911  N9  A   A 860     154.499 130.953 -27.458  1.00 59.79      A16S
ATOM  17912  C4  A   A 860     154.249 129.736 -28.042  1.00 59.79      A16S
ATOM  17913  N3  A   A 860     153.067 129.115 -28.154  1.00 59.79      A16S
ATOM  17914  C2  A   A 860     153.208 127.949 -28.766  1.00 59.79      A16S
ATOM  17915  N1  A   A 860     154.311 127.369 -29.239  1.00 59.79      A16S
ATOM  17916  C6  A   A 860     155.488 128.014 -29.101  1.00 59.79      A16S
ATOM  17917  N6  A   A 860     156.604 127.423 -29.553  1.00 59.79      A16S
ATOM  17918  C5  A   A 860     155.470 129.271 -28.479  1.00 59.79      A16S
ATOM  17919  N7  A   A 860     156.471 130.186 -28.203  1.00 59.79      A16S
ATOM  17920  C8  A   A 860     155.844 131.167 -27.608  1.00 59.79      A16S
ATOM  17921  C2* A   A 860     153.174 131.278 -25.383  1.00 38.77      A16S
ATOM  17922  O2* A   A 860     151.831 131.595 -25.109  1.00 38.77      A16S
ATOM  17923  C3* A   A 860     154.115 132.073 -24.498  1.00 38.77      A16S
ATOM  17924  O3* A   A 860     153.571 132.187 -23.201  1.00 38.77      A16S
ATOM  17925  P   G   A 861     154.244 131.392 -21.975  1.00 38.25      A16S
ATOM  17926  O1P G   A 861     153.447 131.621 -20.735  1.00 49.16      A16S
ATOM  17927  O2P G   A 861     155.705 131.687 -21.962  1.00 49.16      A16S
ATOM  17928  O5* G   A 861     154.070 129.864 -22.384  1.00 38.25      A16S
ATOM  17929  C5* G   A 861     152.783 129.297 -22.578  1.00 38.25      A16S
ATOM  17930  C4* G   A 861     152.902 128.001 -23.332  1.00 38.25      A16S
ATOM  17931  O4* G   A 861     153.401 128.276 -24.665  1.00 38.25      A16S
ATOM  17932  C1* G   A 861     154.213 127.202 -25.102  1.00 38.25      A16S
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ATOM  17933  N9  G   A 861     155.563 127.716 -25.320  1.00 49.16      A16S
ATOM  17934  C4  G   A 861     156.588 127.106 -26.009  1.00 49.16      A16S
ATOM  17935  N3  G   A 861     156.535 125.906 -26.624  1.00 49.16      A16S
ATOM  17936  C2  G   A 861     157.683 125.589 -27.184  1.00 49.16      A16S
ATOM  17937  N2  G   A 861     157.814 124.426 -27.823  1.00 49.16      A16S
ATOM  17938  N1  G   A 861     158.788 126.386 -27.155  1.00 49.16      A16S
ATOM  17939  C6  G   A 861     158.864 127.622 -26.534  1.00 49.16      A16S
ATOM  17940  O6  G   A 861     159.914 128.264 -26.568  1.00 49.16      A16S
ATOM  17941  C5  G   A 861     157.649 127.971 -25.921  1.00 49.16      A16S
ATOM  17942  N7  G   A 861     157.307 129.098 -25.193  1.00 49.16      A16S
ATOM  17943  C8  G   A 861     156.064 128.904 -24.863  1.00 49.16      A16S
ATOM  17944  C2* G   A 861     154.161 126.125 -24.015  1.00 38.25      A16S
ATOM  17945  O2* G   A 861     153.113 125.223 -24.320  1.00 38.25      A16S
ATOM  17946  C3* G   A 861     153.855 126.952 -22.776  1.00 38.25      A16S
ATOM  17947  O3* G   A 861     153.278 126.163 -21.740  1.00 38.25      A16S
ATOM  17948  P   C   A 862     154.237 125.427 -20.682  1.00 37.75      A16S
ATOM  17949  O1P C   A 862     153.437 124.684 -19.684  1.00 39.14      A16S
ATOM  17950  O2P C   A 862     155.245 126.408 -20.206  1.00 39.14      A16S
ATOM  17951  O5* C   A 862     154.958 124.344 -21.591  1.00 37.75      A16S
ATOM  17952  C5* C   A 862     154.193 123.362 -22.312  1.00 37.75      A16S
ATOM  17953  C4* C   A 862     155.116 122.380 -22.996  1.00 37.75      A16S
ATOM  17954  O4* C   A 862     155.808 123.020 -24.100  1.00 37.75      A16S
ATOM  17955  C1* C   A 862     157.146 122.560 -24.151  1.00 37.75      A16S
ATOM  17956  N1  C   A 862     158.037 123.723 -24.027  1.00 39.14      A16S
ATOM  17957  C6  C   A 862     157.746 124.738 -23.167  1.00 39.14      A16S
ATOM  17958  C2  C   A 862     159.178 123.779 -24.816  1.00 39.14      A16S
ATOM  17959  O2  C   A 862     159.412 122.854 -25.600  1.00 39.14      A16S
ATOM  17960  N3  C   A 862     159.995 124.844 -24.723  1.00 39.14      A16S
ATOM  17961  C4  C   A 862     159.696 125.835 -23.891  1.00 39.14      A16S
ATOM  17962  N4  C   A 862     160.520 126.876 -23.844  1.00 39.14      A16S
ATOM  17963  C5  C   A 862     158.538 125.805 -23.073  1.00 39.14      A16S
ATOM  17964  C2* C   A 862     157.332 121.494 -23.067  1.00 37.75      A16S
ATOM  17965  O2* C   A 862     157.174 120.219 -23.651  1.00 37.75      A16S
ATOM  17966  C3* C   A 862     156.212 121.845 -22.095  1.00 37.75      A16S
ATOM  17967  O3* C   A 862     155.743 120.735 -21.368  1.00 37.75      A16S
ATOM  17968  P   U   A 863     156.495 120.314 -20.030  1.00 34.27      A16S
ATOM  17969  O1P U   A 863     155.963 119.005 -19.559  1.00 61.44      A16S
ATOM  17970  O2P U   A 863     156.541 121.474 -19.097  1.00 61.44      A16S
ATOM  17971  O5* U   A 863     157.967 120.056 -20.557  1.00 34.27      A16S
ATOM  17972  C5* U   A 863     158.279 118.849 -21.245  1.00 34.27      A16S
ATOM  17973  C4* U   A 863     159.754 118.746 -21.453  1.00 34.27      A16S
ATOM  17974  O4* U   A 863     160.185 119.771 -22.368  1.00 34.27      A16S
ATOM  17975  C1* U   A 863     161.502 120.164 -22.046  1.00 34.27      A16S
ATOM  17976  N1  U   A 863     161.532 121.624 -21.888  1.00 61.44      A16S
ATOM  17977  C6  U   A 863     160.381 122.346 -21.736  1.00 61.44      A16S
ATOM  17978  C2  U   A 863     162.762 122.245 -21.897  1.00 61.44      A16S
ATOM  17979  O2  U   A 863     163.804 121.642 -22.059  1.00 61.44      A16S
ATOM  17980  N3  U   A 863     162.726 123.602 -21.717  1.00 61.44      A16S
ATOM  17981  C4  U   A 863     161.606 124.383 -21.549  1.00 61.44      A16S
ATOM  17982  O4  U   A 863     161.726 125.600 -21.398  1.00 61.44      A16S
ATOM  17983  C5  U   A 863     160.377 123.664 -21.573  1.00 61.44      A16S
ATOM  17984  C2* U   A 863     161.929 119.381 -20.807  1.00 34.27      A16S
ATOM  17985  O2* U   A 863     162.634 118.249 -21.243  1.00 34.27      A16S
ATOM  17986  C3* U   A 863     160.595 118.962 -20.221  1.00 34.27      A16S
ATOM  17987  O3* U   A 863     160.695 117.755 -19.505  1.00 34.27      A16S
ATOM  17988  P   A   A 864     160.672 117.785 -17.908  1.00 30.91      A16S
ATOM  17989  O1P A   A 864     160.201 116.465 -17.465  1.00 32.92      A16S
ATOM  17990  O2P A   A 864     159.959 118.999 -17.483  1.00 32.92      A16S
ATOM  17991  O5* A   A 864     162.193 117.957 -17.486  1.00 30.91      A16S
ATOM  17992  C5* A   A 864     162.542 118.337 -16.153  1.00 30.91      A16S
ATOM  17993  C4* A   A 864     164.039 118.289 -15.975  1.00 30.91      A16S
ATOM  17994  O4* A   A 864     164.489 116.922 -16.156  1.00 30.91      A16S
ATOM  17995  C1* A   A 864     165.718 116.913 -16.866  1.00 30.91      A16S
ATOM  17996  N9  A   A 864     165.522 116.195 -18.136  1.00 32.92      A16S
ATOM  17997  C4  A   A 864     166.461 115.491 -18.861  1.00 32.92      A16S
ATOM  17998  N3  A   A 864     167.766 115.329 -18.582  1.00 32.92      A16S
ATOM  17999  C2  A   A 864     168.355 114.586 -19.511  1.00 32.92      A16S
ATOM  18000  N1  A   A 864     167.829 114.012 -20.595  1.00 32.92      A16S
ATOM  18001  C6  A   A 864     166.515 114.177 -20.838  1.00 32.92      A16S
ATOM  18002  N6  A   A 864     165.980 113.573 -21.897  1.00 32.92      A16S
ATOM  18003  C5  A   A 864     165.783 114.969 -19.946  1.00 32.92      A16S
ATOM  18004  N7  A   A 864     164.455 115.359 -19.928  1.00 32.92      A16S
ATOM  18005  C8  A   A 864     164.351 116.077 -18.840  1.00 32.92      A16S
ATOM  18006  C2* A   A 864     166.159 118.371 -17.025  1.00 30.91      A16S
ATOM  18007  O2* A   A 864     166.921 118.710 -15.894  1.00 30.91      A16S
ATOM  18008  C3* A   A 864     164.833 119.106 -16.984  1.00 30.91      A16S
ATOM  18009  O3* A   A 864     165.008 120.441 -16.534  1.00 30.91      A16S
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ATOM  18010  P    A   A 865     164.442 121.666 -17.416  1.00 38.68      A16S
ATOM  18011  O1P  A   A 865     164.074 122.742 -16.452  1.00 40.10      A16S
ATOM  18012  O2P  A   A 865     163.434 121.178 -18.394  1.00 40.10      A16S
ATOM  18013  O5*  A   A 865     165.718 122.170 -18.219  1.00 38.68      A16S
ATOM  18014  C5*  A   A 865     166.914 122.522 -17.515  1.00 38.68      A16S
ATOM  18015  C4*  A   A 865     168.107 121.844 -18.130  1.00 38.68      A16S
ATOM  18016  O4*  A   A 865     167.891 120.415 -18.138  1.00 38.68      A16S
ATOM  18017  C1*  A   A 865     168.464 119.854 -19.299  1.00 38.68      A16S
ATOM  18018  N9   A   A 865     167.396 119.207 -20.051  1.00 40.10      A16S
ATOM  18019  C4   A   A 865     167.527 118.223 -20.995  1.00 40.10      A16S
ATOM  18020  N3   A   A 865     168.659 117.639 -21.410  1.00 40.10      A16S
ATOM  18021  C2   A   A 865     168.394 116.741 -22.357  1.00 40.10      A16S
ATOM  18022  N1   A   A 865     167.214 116.392 -22.892  1.00 40.10      A16S
ATOM  18023  C6   A   A 865     166.104 117.002 -22.448  1.00 40.10      A16S
ATOM  18024  N6   A   A 865     164.943 116.666 -22.981  1.00 40.10      A16S
ATOM  18025  C5   A   A 865     166.248 117.963 -21.447  1.00 40.10      A16S
ATOM  18026  N7   A   A 865     165.329 118.757 -20.788  1.00 40.10      A16S
ATOM  18027  C8   A   A 865     166.059 119.469 -19.972  1.00 40.10      A16S
ATOM  18028  C2*  A   A 865     169.159 120.979 -20.068  1.00 38.68      A16S
ATOM  18029  O2*  A   A 865     170.507 120.989 -19.662  1.00 38.68      A16S
ATOM  18030  C3*  A   A 865     168.413 122.212 -19.570  1.00 38.68      A16S
ATOM  18031  O3*  A   A 865     169.229 123.381 -19.578  1.00 38.68      A16S
ATOM  18032  P    C   A 866     169.098 124.445 -20.771  1.00 36.43      A16S
ATOM  18033  O1P  C   A 866     169.881 125.641 -20.390  1.00 52.35      A16S
ATOM  18034  O2P  C   A 866     167.671 124.597 -21.140  1.00 52.35      A16S
ATOM  18035  O5*  C   A 866     169.822 123.727 -21.991  1.00 36.43      A16S
ATOM  18036  C5*  C   A 866     171.131 123.138 -21.834  1.00 36.43      A16S
ATOM  18037  C4*  C   A 866     171.426 122.193 -22.974  1.00 36.43      A16S
ATOM  18038  O4*  C   A 866     170.753 120.921 -22.795  1.00 36.43      A16S
ATOM  18039  C1*  C   A 866     170.371 120.407 -24.059  1.00 36.43      A16S
ATOM  18040  N1   C   A 866     168.907 120.175 -24.077  1.00 52.35      A16S
ATOM  18041  C6   C   A 866     168.065 120.908 -23.293  1.00 52.35      A16S
ATOM  18042  C2   C   A 866     168.389 119.182 -24.925  1.00 52.35      A16S
ATOM  18043  O2   C   A 866     169.161 118.512 -25.613  1.00 52.35      A16S
ATOM  18044  N3   C   A 866     167.060 118.974 -24.969  1.00 52.35      A16S
ATOM  18045  C4   C   A 866     166.251 119.695 -24.206  1.00 52.35      A16S
ATOM  18046  N4   C   A 866     164.948 119.445 -24.285  1.00 52.35      A16S
ATOM  18047  C5   C   A 866     166.743 120.702 -23.325  1.00 52.35      A16S
ATOM  18048  C2*  C   A 866     170.860 121.392 -25.122  1.00 36.43      A16S
ATOM  18049  O2*  C   A 866     172.130 120.964 -25.553  1.00 36.43      A16S
ATOM  18050  C3*  C   A 866     170.973 122.682 -24.329  1.00 36.43      A16S
ATOM  18051  O3*  C   A 866     171.946 123.547 -24.854  1.00 36.43      A16S
ATOM  18052  P    G   A 867     171.595 124.450 -26.129  1.00 32.08      A16S
ATOM  18053  O1P  G   A 867     172.912 124.923 -26.635  1.00 40.56      A16S
ATOM  18054  O2P  G   A 867     170.534 125.446 -25.809  1.00 40.56      A16S
ATOM  18055  O5*  G   A 867     171.001 123.389 -27.150  1.00 32.08      A16S
ATOM  18056  C5*  G   A 867     169.948 123.746 -28.039  1.00 32.08      A16S
ATOM  18057  C4*  G   A 867     169.000 122.593 -28.211  1.00 32.08      A16S
ATOM  18058  O4*  G   A 867     168.467 122.182 -26.924  1.00 32.08      A16S
ATOM  18059  C1*  G   A 867     167.064 121.988 -27.031  1.00 32.08      A16S
ATOM  18060  N9   G   A 867     166.412 123.055 -26.264  1.00 40.56      A16S
ATOM  18061  C4   G   A 867     165.061 123.234 -26.036  1.00 40.56      A16S
ATOM  18062  N3   G   A 867     164.070 122.448 -26.476  1.00 40.56      A16S
ATOM  18063  C2   G   A 867     162.885 122.888 -26.097  1.00 40.56      A16S
ATOM  18064  N2   G   A 867     161.789 122.224 -26.453  1.00 40.56      A16S
ATOM  18065  N1   G   A 867     162.684 124.006 -25.350  1.00 40.56      A16S
ATOM  18066  C6   G   A 867     163.680 124.839 -24.892  1.00 40.56      A16S
ATOM  18067  O6   G   A 867     163.385 125.846 -24.238  1.00 40.56      A16S
ATOM  18068  C5   G   A 867     164.966 124.378 -25.283  1.00 40.56      A16S
ATOM  18069  N7   G   A 867     166.223 124.906 -25.031  1.00 40.56      A16S
ATOM  18070  C8   G   A 867     167.044 124.091 -25.628  1.00 40.56      A16S
ATOM  18071  C2*  G   A 867     166.723 122.025 -28.527  1.00 32.08      A16S
ATOM  18072  O2*  G   A 867     166.850 120.737 -29.090  1.00 32.08      A16S
ATOM  18073  C3*  G   A 867     167.801 122.951 -29.061  1.00 32.08      A16S
ATOM  18074  O3*  G   A 867     168.083 122.722 -30.426  1.00 32.08      A16S
ATOM  18075  P    C   A 868     167.321 123.577 -31.539  1.00 32.68      A16S
ATOM  18076  O1P  C   A 868     167.813 123.171 -32.876  1.00 54.81      A16S
ATOM  18077  O2P  C   A 868     167.379 125.006 -31.145  1.00 54.81      A16S
ATOM  18078  O5*  C   A 868     165.812 123.100 -31.406  1.00 32.68      A16S
ATOM  18079  C5*  C   A 868     165.461 121.739 -31.598  1.00 32.68      A16S
ATOM  18080  C4*  C   A 868     163.983 121.562 -31.426  1.00 32.68      A16S
ATOM  18081  O4*  C   A 868     163.626 121.687 -30.028  1.00 32.68      A16S
ATOM  18082  C1*  C   A 868     162.322 122.250 -29.923  1.00 32.68      A16S
ATOM  18083  N1   C   A 868     162.402 123.558 -29.241  1.00 54.81      A16S
ATOM  18084  C6   C   A 868     163.605 124.149 -28.974  1.00 54.81      A16S
ATOM  18085  C2   C   A 868     161.208 124.205 -28.889  1.00 54.81      A16S
ATOM  18086  O2   C   A 868     160.128 123.631 -29.102  1.00 54.81      A16S
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ATOM  18087  N3  C   A 868     161.262 125.430 -28.321  1.00 54.81      A16S
ATOM  18088  C4  C   A 868     162.439 126.000 -28.080  1.00 54.81      A16S
ATOM  18089  N4  C   A 868     162.445 127.206 -27.529  1.00 54.81      A16S
ATOM  18090  C5  C   A 868     163.667 125.355 -28.399  1.00 54.81      A16S
ATOM  18091  C2* C   A 868     161.803 122.450 -31.346  1.00 32.68      A16S
ATOM  18092  O2* C   A 868     161.085 121.299 -31.744  1.00 32.68      A16S
ATOM  18093  C3* C   A 868     163.100 122.584 -32.117  1.00 32.68      A16S
ATOM  18094  O3* C   A 868     162.890 122.297 -33.467  1.00 32.68      A16S
ATOM  18095  P   G   A 869     162.801 123.502 -34.516  1.00 32.15      A16S
ATOM  18096  O1P G   A 869     162.433 122.938 -35.853  1.00 45.25      A16S
ATOM  18097  O2P G   A 869     164.027 124.343 -34.368  1.00 45.25      A16S
ATOM  18098  O5* G   A 869     161.561 124.355 -34.018  1.00 32.15      A16S
ATOM  18099  C5* G   A 869     160.232 123.833 -34.070  1.00 32.15      A16S
ATOM  18100  C4* G   A 869     159.295 124.776 -33.374  1.00 32.15      A16S
ATOM  18101  O4* G   A 869     159.806 125.050 -32.038  1.00 32.15      A16S
ATOM  18102  C1* G   A 869     159.499 126.383 -31.675  1.00 32.15      A16S
ATOM  18103  N9  G   A 869     160.748 127.068 -31.408  1.00 45.25      A16S
ATOM  18104  C4  G   A 869     160.918 128.188 -30.657  1.00 45.25      A16S
ATOM  18105  N3  G   A 869     159.950 128.866 -30.020  1.00 45.25      A16S
ATOM  18106  C2  G   A 869     160.434 129.899 -29.355  1.00 45.25      A16S
ATOM  18107  N2  G   A 869     159.621 130.671 -28.638  1.00 45.25      A16S
ATOM  18108  N1  G   A 869     161.757 130.247 -29.334  1.00 45.25      A16S
ATOM  18109  C6  G   A 869     162.772 129.561 -29.984  1.00 45.25      A16S
ATOM  18110  O6  G   A 869     163.946 129.948 -29.890  1.00 45.25      A16S
ATOM  18111  C5  G   A 869     162.268 128.449 -30.692  1.00 45.25      A16S
ATOM  18112  N7  G   A 869     162.929 127.511 -31.466  1.00 45.25      A16S
ATOM  18113  C8  G   A 869     161.985 126.712 -31.865  1.00 45.25      A16S
ATOM  18114  C2* G   A 869     158.733 127.017 -32.835  1.00 32.15      A16S
ATOM  18115  O2* G   A 869     157.344 126.936 -32.558  1.00 32.15      A16S
ATOM  18116  C3* G   A 869     159.160 126.145 -34.011  1.00 32.15      A16S
ATOM  18117  O3* G   A 869     158.174 126.110 -35.011  1.00 32.15      A16S
ATOM  18118  P   U   A 870     158.402 126.903 -36.380  1.00 39.61      A16S
ATOM  18119  O1P U   A 870     159.463 126.191 -37.124  1.00 56.92      A16S
ATOM  18120  O2P U   A 870     158.539 128.348 -36.120  1.00 56.92      A16S
ATOM  18121  O5* U   A 870     157.043 126.662 -37.168  1.00 39.61      A16S
ATOM  18122  C5* U   A 870     156.684 125.346 -37.618  1.00 39.61      A16S
ATOM  18123  C4* U   A 870     155.643 125.440 -38.696  1.00 39.61      A16S
ATOM  18124  O4* U   A 870     154.368 125.784 -38.100  1.00 39.61      A16S
ATOM  18125  C1* U   A 870     153.869 126.961 -38.691  1.00 39.61      A16S
ATOM  18126  N1  U   A 870     153.164 127.745 -37.667  1.00 56.92      A16S
ATOM  18127  C6  U   A 870     153.749 128.072 -36.471  1.00 56.92      A16S
ATOM  18128  C2  U   A 870     151.883 128.141 -37.956  1.00 56.92      A16S
ATOM  18129  O2  U   A 870     151.329 127.868 -39.001  1.00 56.92      A16S
ATOM  18130  N3  U   A 870     151.265 128.871 -36.979  1.00 56.92      A16S
ATOM  18131  C4  U   A 870     151.788 129.237 -35.768  1.00 56.92      A16S
ATOM  18132  O4  U   A 870     151.118 129.942 -35.012  1.00 56.92      A16S
ATOM  18133  C5  U   A 870     153.122 128.784 -35.536  1.00 56.92      A16S
ATOM  18134  C2* U   A 870     155.068 127.673 -39.311  1.00 39.61      A16S
ATOM  18135  O2* U   A 870     154.667 128.480 -40.402  1.00 39.61      A16S
ATOM  18136  C3* U   A 870     155.931 126.498 -39.747  1.00 39.61      A16S
ATOM  18137  O3* U   A 870     155.486 126.058 -41.014  1.00 39.61      A16S
ATOM  18138  P   U   A 871     156.564 125.658 -42.128  1.00 39.89      A16S
ATOM  18139  O1P U   A 871     157.655 126.679 -42.133  1.00 46.83      A16S
ATOM  18140  O2P U   A 871     155.849 125.344 -43.398  1.00 46.83      A16S
ATOM  18141  O5* U   A 871     157.155 124.323 -41.513  1.00 39.89      A16S
ATOM  18142  C5* U   A 871     156.356 123.152 -41.437  1.00 39.89      A16S
ATOM  18143  C4* U   A 871     157.234 121.966 -41.197  1.00 39.89      A16S
ATOM  18144  O4* U   A 871     158.257 121.927 -42.237  1.00 39.89      A16S
ATOM  18145  C1* U   A 871     159.521 121.799 -41.639  1.00 39.89      A16S
ATOM  18146  N1  U   A 871     160.548 122.406 -42.495  1.00 46.83      A16S
ATOM  18147  C6  U   A 871     160.689 123.752 -42.612  1.00 46.83      A16S
ATOM  18148  C2  U   A 871     161.403 121.551 -43.154  1.00 46.83      A16S
ATOM  18149  O2  U   A 871     161.263 120.335 -43.148  1.00 46.83      A16S
ATOM  18150  N3  U   A 871     162.421 122.159 -43.841  1.00 46.83      A16S
ATOM  18151  C4  U   A 871     162.647 123.502 -43.958  1.00 46.83      A16S
ATOM  18152  O4  U   A 871     163.667 123.899 -44.521  1.00 46.83      A16S
ATOM  18153  C5  U   A 871     161.681 124.317 -43.303  1.00 46.83      A16S
ATOM  18154  C2* U   A 871     159.386 122.393 -40.244  1.00 39.89      A16S
ATOM  18155  O2* U   A 871     160.353 121.813 -39.404  1.00 39.89      A16S
ATOM  18156  C3* U   A 871     157.971 121.974 -39.865  1.00 39.89      A16S
ATOM  18157  O3* U   A 871     158.000 120.659 -39.357  1.00 39.89      A16S
ATOM  18158  P   A   A 872     156.877 120.184 -38.317  1.00 37.97      A16S
ATOM  18159  O1P A   A 872     157.100 118.719 -38.137  1.00 44.66      A16S
ATOM  18160  O2P A   A 872     155.552 120.674 -38.787  1.00 44.66      A16S
ATOM  18161  O5* A   A 872     157.225 120.930 -36.949  1.00 37.97      A16S
ATOM  18162  C5* A   A 872     158.464 120.688 -36.294  1.00 37.97      A16S
ATOM  18163  C4* A   A 872     158.255 120.416 -34.822  1.00 37.97      A16S
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ATOM  18164  O4*  A   A 872     158.007 121.644 -34.089  1.00 37.97       A16S
ATOM  18165  C1*  A   A 872     157.052 121.381 -33.105  1.00 37.97       A16S
ATOM  18166  N9   A   A 872     156.462 122.632 -32.626  1.00 44.66       A16S
ATOM  18167  C4   A   A 872     155.422 123.355 -33.145  1.00 44.66       A16S
ATOM  18168  N3   A   A 872     154.716 123.085 -34.247  1.00 44.66       A16S
ATOM  18169  C2   A   A 872     153.766 123.993 -34.423  1.00 44.66       A16S
ATOM  18170  N1   A   A 872     153.460 125.050 -33.670  1.00 44.66       A16S
ATOM  18171  C6   A   A 872     154.188 125.281 -32.563  1.00 44.66       A16S
ATOM  18172  N6   A   A 872     153.871 126.318 -31.790  1.00 44.66       A16S
ATOM  18173  C5   A   A 872     155.231 124.408 -32.280  1.00 44.66       A16S
ATOM  18174  N7   A   A 872     156.147 124.371 -31.246  1.00 44.66       A16S
ATOM  18175  C8   A   A 872     156.854 123.305 -31.499  1.00 44.66       A16S
ATOM  18176  C2*  A   A 872     156.136 120.344 -33.741  1.00 37.97       A16S
ATOM  18177  O2*  A   A 872     155.395 119.718 -32.714  1.00 37.97       A16S
ATOM  18178  C3*  A   A 872     157.168 119.428 -34.404  1.00 37.97       A16S
ATOM  18179  O3*  A   A 872     157.678 118.609 -33.351  1.00 37.97       A16S
ATOM  18180  P    A   A 873     158.480 117.247 -33.677  1.00 35.93       A16S
ATOM  18181  O1P  A   A 873     159.779 117.630 -34.278  1.00 39.56       A16S
ATOM  18182  O2P  A   A 873     157.615 116.277 -34.375  1.00 39.56       A16S
ATOM  18183  O5*  A   A 873     158.793 116.695 -32.220  1.00 35.93       A16S
ATOM  18184  C5*  A   A 873     157.731 116.338 -31.324  1.00 35.93       A16S
ATOM  18185  C4*  A   A 873     157.888 117.063 -30.014  1.00 35.93       A16S
ATOM  18186  O4*  A   A 873     159.255 116.923 -29.578  1.00 35.93       A16S
ATOM  18187  C1*  A   A 873     159.867 118.189 -29.479  1.00 35.93       A16S
ATOM  18188  N9   A   A 873     161.225 118.053 -29.991  1.00 39.56       A16S
ATOM  18189  C4   A   A 873     162.376 118.474 -29.387  1.00 39.56       A16S
ATOM  18190  N3   A   A 873     162.489 119.154 -28.242  1.00 39.56       A16S
ATOM  18191  C2   A   A 873     163.763 119.362 -27.952  1.00 39.56       A16S
ATOM  18192  N1   A   A 873     164.853 118.985 -28.619  1.00 39.56       A16S
ATOM  18193  C6   A   A 873     164.699 118.294 -29.759  1.00 39.56       A16S
ATOM  18194  N6   A   A 873     165.779 117.886 -30.408  1.00 39.56       A16S
ATOM  18195  C5   A   A 873     163.404 118.031 -30.187  1.00 39.56       A16S
ATOM  18196  N7   A   A 873     162.911 117.379 -31.304  1.00 39.56       A16S
ATOM  18197  C8   A   A 873     161.616 117.431 -31.148  1.00 39.56       A16S
ATOM  18198  C2*  A   A 873     158.983 119.167 -30.249  1.00 35.93       A16S
ATOM  18199  O2*  A   A 873     159.124 120.455 -29.674  1.00 35.93       A16S
ATOM  18200  C3*  A   A 873     157.603 118.553 -30.037  1.00 35.93       A16S
ATOM  18201  O3*  A   A 873     157.188 118.862 -28.711  1.00 35.93       A16S
ATOM  18202  P    G   A 874     155.642 118.768 -28.298  1.00 36.24       A16S
ATOM  18203  O1P  G   A 874     155.624 118.234 -26.917  1.00 29.24       A16S
ATOM  18204  O2P  G   A 874     154.869 118.088 -29.370  1.00 29.24       A16S
ATOM  18205  O5*  G   A 874     155.187 120.288 -28.234  1.00 36.24       A16S
ATOM  18206  C5*  G   A 874     155.617 121.131 -27.158  1.00 36.24       A16S
ATOM  18207  C4*  G   A 874     154.772 122.366 -27.129  1.00 36.24       A16S
ATOM  18208  O4*  G   A 874     154.876 123.000 -28.427  1.00 36.24       A16S
ATOM  18209  C1*  G   A 874     153.617 123.515 -28.809  1.00 36.24       A16S
ATOM  18210  N9   G   A 874     153.238 122.885 -30.070  1.00 29.24       A16S
ATOM  18211  C4   G   A 874     152.147 123.198 -30.840  1.00 29.24       A16S
ATOM  18212  N3   G   A 874     151.203 124.109 -30.536  1.00 29.24       A16S
ATOM  18213  C2   G   A 874     150.277 124.185 -31.473  1.00 29.24       A16S
ATOM  18214  N2   G   A 874     149.244 125.015 -31.321  1.00 29.24       A16S
ATOM  18215  N1   G   A 874     150.290 123.446 -32.624  1.00 29.24       A16S
ATOM  18216  C6   G   A 874     151.252 122.504 -32.954  1.00 29.24       A16S
ATOM  18217  O6   G   A 874     151.166 121.891 -34.013  1.00 29.24       A16S
ATOM  18218  C5   G   A 874     152.239 122.394 -31.953  1.00 29.24       A16S
ATOM  18219  N7   G   A 874     153.351 121.571 -31.876  1.00 29.24       A16S
ATOM  18220  C8   G   A 874     153.909 121.888 -30.740  1.00 29.24       A16S
ATOM  18221  C2*  G   A 874     152.635 123.270 -27.662  1.00 36.24       A16S
ATOM  18222  O2*  G   A 874     152.526 124.435 -26.850  1.00 36.24       A16S
ATOM  18223  C3*  G   A 874     153.290 122.085 -26.965  1.00 36.24       A16S
ATOM  18224  O3*  G   A 874     152.936 121.938 -25.603  1.00 36.24       A16S
ATOM  18225  P    C   A 875     151.830 120.849 -25.193  1.00 34.76       A16S
ATOM  18226  O1P  C   A 875     151.691 120.887 -23.708  1.00 25.79       A16S
ATOM  18227  O2P  C   A 875     152.099 119.556 -25.871  1.00 25.79       A16S
ATOM  18228  O5*  C   A 875     150.502 121.423 -25.842  1.00 34.76       A16S
ATOM  18229  C5*  C   A 875     149.907 122.607 -25.321  1.00 34.76       A16S
ATOM  18230  C4*  C   A 875     148.646 122.911 -26.062  1.00 34.76       A16S
ATOM  18231  O4*  C   A 875     148.957 123.261 -27.428  1.00 34.76       A16S
ATOM  18232  C1*  C   A 875     147.887 122.882 -28.255  1.00 34.76       A16S
ATOM  18233  N1   C   A 875     148.390 122.055 -29.338  1.00 25.79       A16S
ATOM  18234  C6   C   A 875     149.545 121.344 -29.228  1.00 25.79       A16S
ATOM  18235  C2   C   A 875     147.643 121.997 -30.485  1.00 25.79       A16S
ATOM  18236  O2   C   A 875     146.615 122.683 -30.553  1.00 25.79       A16S
ATOM  18237  N3   C   A 875     148.035 121.207 -31.498  1.00 25.79       A16S
ATOM  18238  C4   C   A 875     149.144 120.494 -31.385  1.00 25.79       A16S
ATOM  18239  N4   C   A 875     149.470 119.702 -32.405  1.00 25.79       A16S
ATOM  18240  C5   C   A 875     149.958 120.555 -30.221  1.00 25.79       A16S
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ATOM  18241  C2* C   A 875     146.871 122.122 -27.412  1.00 34.76      A16S
ATOM  18242  O2* C   A 875     145.807 122.975 -27.089  1.00 34.76      A16S
ATOM  18243  C3* C   A 875     147.696 121.745 -26.198  1.00 34.76      A16S
ATOM  18244  O3* C   A 875     146.899 121.589 -25.051  1.00 34.76      A16S
ATOM  18245  P    G   A 876     146.361 120.140 -24.686  1.00 35.57      A16S
ATOM  18246  O1P G   A 876     145.616 120.250 -23.421  1.00 32.95      A16S
ATOM  18247  O2P G   A 876     147.518 119.215 -24.766  1.00 32.95      A16S
ATOM  18248  O5* G   A 876     145.350 119.837 -25.880  1.00 35.57      A16S
ATOM  18249  C5* G   A 876     145.271 118.523 -26.491  1.00 35.57      A16S
ATOM  18250  C4* G   A 876     144.306 118.543 -27.657  1.00 35.57      A16S
ATOM  18251  O4* G   A 876     144.871 119.293 -28.764  1.00 35.57      A16S
ATOM  18252  C1* G   A 876     144.468 118.724 -30.001  1.00 35.57      A16S
ATOM  18253  N9   G   A 876     145.656 118.269 -30.715  1.00 32.95      A16S
ATOM  18254  C4   G   A 876     145.729 117.913 -32.036  1.00 32.95      A16S
ATOM  18255  N3   G   A 876     144.713 117.922 -32.916  1.00 32.95      A16S
ATOM  18256  C2   G   A 876     145.102 117.530 -34.111  1.00 32.95      A16S
ATOM  18257  N2   G   A 876     144.239 117.486 -35.105  1.00 32.95      A16S
ATOM  18258  N1   G   A 876     146.373 117.160 -34.415  1.00 32.95      A16S
ATOM  18259  C6   G   A 876     147.432 117.152 -33.522  1.00 32.95      A16S
ATOM  18260  O6   G   A 876     148.556 116.816 -33.900  1.00 32.95      A16S
ATOM  18261  C5   G   A 876     147.037 117.561 -32.247  1.00 32.95      A16S
ATOM  18262  N7   G   A 876     147.774 117.685 -31.086  1.00 32.95      A16S
ATOM  18263  C8   G   A 876     146.917 118.108 -30.204  1.00 32.95      A16S
ATOM  18264  C2* G   A 876     143.542 117.563 -29.680  1.00 35.57      A16S
ATOM  18265  O2* G   A 876     142.211 118.037 -29.739  1.00 35.57      A16S
ATOM  18266  C3* G   A 876     144.000 117.198 -28.273  1.00 35.57      A16S
ATOM  18267  O3* G   A 876     143.007 116.520 -27.544  1.00 35.57      A16S
ATOM  18268  P    C   A 877     143.106 114.933 -27.393  1.00 25.75      A16S
ATOM  18269  O1P C   A 877     142.188 114.558 -26.275  1.00 28.29      A16S
ATOM  18270  O2P C   A 877     144.553 114.588 -27.307  1.00 28.29      A16S
ATOM  18271  O5* C   A 877     142.531 114.406 -28.774  1.00 25.75      A16S
ATOM  18272  C5* C   A 877     141.142 114.499 -29.031  1.00 25.75      A16S
ATOM  18273  C4* C   A 877     140.844 114.029 -30.420  1.00 25.75      A16S
ATOM  18274  O4* C   A 877     141.508 114.893 -31.382  1.00 25.75      A16S
ATOM  18275  C1* C   A 877     141.886 114.139 -32.519  1.00 25.75      A16S
ATOM  18276  N1   C   A 877     143.350 114.206 -32.668  1.00 28.29      A16S
ATOM  18277  C6   C   A 877     144.148 114.600 -31.630  1.00 28.29      A16S
ATOM  18278  C2   C   A 877     143.922 113.832 -33.894  1.00 28.29      A16S
ATOM  18279  O2   C   A 877     143.185 113.521 -34.827  1.00 28.29      A16S
ATOM  18280  N3   C   A 877     145.258 113.824 -34.028  1.00 28.29      A16S
ATOM  18281  C4   C   A 877     146.028 114.179 -33.008  1.00 28.29      A16S
ATOM  18282  N4   C   A 877     147.339 114.118 -33.181  1.00 28.29      A16S
ATOM  18283  C5   C   A 877     145.482 114.604 -31.758  1.00 28.29      A16S
ATOM  18284  C2* C   A 877     141.408 112.707 -32.287  1.00 25.75      A16S
ATOM  18285  O2* C   A 877     140.133 112.599 -32.866  1.00 25.75      A16S
ATOM  18286  C3* C   A 877     141.340 112.647 -30.770  1.00 25.75      A16S
ATOM  18287  O3* C   A 877     140.459 111.659 -30.309  1.00 25.75      A16S
ATOM  18288  P    G   A 878     141.001 110.165 -30.104  1.00 30.21      A16S
ATOM  18289  O1P G   A 878     139.866 109.356 -29.621  1.00 39.57      A16S
ATOM  18290  O2P G   A 878     142.266 110.182 -29.327  1.00 39.57      A16S
ATOM  18291  O5* G   A 878     141.294 109.682 -31.587  1.00 30.21      A16S
ATOM  18292  C5* G   A 878     140.211 109.536 -32.492  1.00 30.21      A16S
ATOM  18293  C4* G   A 878     140.696 109.017 -33.810  1.00 30.21      A16S
ATOM  18294  O4* G   A 878     141.508 110.014 -34.475  1.00 30.21      A16S
ATOM  18295  C1* G   A 878     142.466 109.364 -35.294  1.00 30.21      A16S
ATOM  18296  N9   G   A 878     143.802 109.745 -34.849  1.00 39.57      A16S
ATOM  18297  C4   G   A 878     144.943 109.733 -35.607  1.00 39.57      A16S
ATOM  18298  N3   G   A 878     145.022 109.413 -36.907  1.00 39.57      A16S
ATOM  18299  C2   G   A 878     146.261 109.475 -37.347  1.00 39.57      A16S
ATOM  18300  N2   G   A 878     146.532 109.176 -38.627  1.00 39.57      A16S
ATOM  18301  N1   G   A 878     147.325 109.826 -36.568  1.00 39.57      A16S
ATOM  18302  C6   G   A 878     147.254 110.151 -35.230  1.00 39.57      A16S
ATOM  18303  O6   G   A 878     148.269 110.437 -34.621  1.00 39.57      A16S
ATOM  18304  C5   G   A 878     145.952 110.093 -34.752  1.00 39.57      A16S
ATOM  18305  N7   G   A 878     145.457 110.350 -33.488  1.00 39.57      A16S
ATOM  18306  C8   G   A 878     144.176 110.140 -33.593  1.00 39.57      A16S
ATOM  18307  C2* G   A 878     142.265 107.857 -35.126  1.00 30.21      A16S
ATOM  18308  O2* G   A 878     141.446 107.360 -36.167  1.00 30.21      A16S
ATOM  18309  C3* G   A 878     141.583 107.794 -33.770  1.00 30.21      A16S
ATOM  18310  O3* G   A 878     140.853 106.604 -33.597  1.00 30.21      A16S
ATOM  18311  P    C   A 879     141.395 105.509 -32.569  1.00 22.78      A16S
ATOM  18312  O1P C   A 879     140.323 104.522 -32.303  1.00 21.55      A16S
ATOM  18313  O2P C   A 879     142.004 106.244 -31.440  1.00 21.55      A16S
ATOM  18314  O5* C   A 879     142.533 104.765 -33.397  1.00 22.78      A16S
ATOM  18315  C5* C   A 879     142.164 103.882 -34.457  1.00 22.78      A16S
ATOM  18316  C4* C   A 879     143.327 103.608 -35.383  1.00 22.78      A16S
ATOM  18317  O4* C   A 879     143.777 104.826 -36.037  1.00 22.78      A16S
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ATOM  18318  C1* C   A 879     145.143 104.702 -36.371  1.00 22.78      A16S
ATOM  18319  N1  C   A 879     145.913 105.626 -35.532  1.00 21.55      A16S
ATOM  18320  C6  C   A 879     145.456 105.984 -34.295  1.00 21.55      A16S
ATOM  18321  C2  C   A 879     147.163 106.081 -35.980  1.00 21.55      A16S
ATOM  18322  O2  C   A 879     147.517 105.842 -37.147  1.00 21.55      A16S
ATOM  18323  N3  C   A 879     147.948 106.778 -35.131  1.00 21.55      A16S
ATOM  18324  C4  C   A 879     147.522 107.048 -33.901  1.00 21.55      A16S
ATOM  18325  N4  C   A 879     148.355 107.653 -33.077  1.00 21.55      A16S
ATOM  18326  C5  C   A 879     146.223 106.684 -33.456  1.00 21.55      A16S
ATOM  18327  C2* C   A 879     145.557 103.288 -35.969  1.00 22.78      A16S
ATOM  18328  O2* C   A 879     145.287 102.419 -37.046  1.00 22.78      A16S
ATOM  18329  C3* C   A 879     144.603 103.016 -34.823  1.00 22.78      A16S
ATOM  18330  O3* C   A 879     144.506 101.637 -34.547  1.00 22.78      A16S
ATOM  18331  P   C   A 880     145.380 101.018 -33.350  1.00 24.18      A16S
ATOM  18332  O1P C   A 880     144.745  99.763 -32.886  1.00 31.85      A16S
ATOM  18333  O2P C   A 880     145.672 102.087 -32.372  1.00 31.85      A16S
ATOM  18334  O5* C   A 880     146.738 100.637 -34.084  1.00 24.18      A16S
ATOM  18335  C5* C   A 880     146.726  99.965 -35.347  1.00 24.18      A16S
ATOM  18336  C4* C   A 880     148.076 100.063 -36.002  1.00 24.18      A16S
ATOM  18337  O4* C   A 880     148.372 101.449 -36.313  1.00 24.18      A16S
ATOM  18338  C1* C   A 880     149.766 101.690 -36.179  1.00 24.18      A16S
ATOM  18339  N1  C   A 880     149.982 102.675 -35.098  1.00 31.85      A16S
ATOM  18340  C6  C   A 880     149.162 102.696 -34.009  1.00 31.85      A16S
ATOM  18341  C2  C   A 880     151.065 103.572 -35.183  1.00 31.85      A16S
ATOM  18342  O2  C   A 880     151.776 103.579 -36.211  1.00 31.85      A16S
ATOM  18343  N3  C   A 880     151.305 104.412 -34.147  1.00 31.85      A16S
ATOM  18344  C4  C   A 880     150.510 104.391 -33.077  1.00 31.85      A16S
ATOM  18345  N4  C   A 880     150.787 105.209 -32.074  1.00 31.85      A16S
ATOM  18346  C5  C   A 880     149.392 103.524 -32.987  1.00 31.85      A16S
ATOM  18347  C2* C   A 880     150.409 100.354 -35.825  1.00 24.18      A16S
ATOM  18348  O2* C   A 880     150.763  99.698 -37.024  1.00 24.18      A16S
ATOM  18349  C3* C   A 880     149.254  99.636 -35.153  1.00 24.18      A16S
ATOM  18350  O3* C   A 880     149.433  98.251 -35.170  1.00 24.18      A16S
ATOM  18351  P   G   A 881     149.991  97.525 -33.863  1.00 28.80      A16S
ATOM  18352  O1P G   A 881     149.798  96.061 -34.105  1.00 28.13      A16S
ATOM  18353  O2P G   A 881     149.438  98.152 -32.633  1.00 28.13      A16S
ATOM  18354  O5* G   A 881     151.527  97.905 -33.848  1.00 28.80      A16S
ATOM  18355  C5* G   A 881     152.354  97.656 -34.972  1.00 28.80      A16S
ATOM  18356  C4* G   A 881     153.708  98.255 -34.744  1.00 28.80      A16S
ATOM  18357  O4* G   A 881     153.628  99.699 -34.821  1.00 28.80      A16S
ATOM  18358  C1* G   A 881     154.580 100.267 -33.947  1.00 28.80      A16S
ATOM  18359  N9  G   A 881     153.896 101.053 -32.934  1.00 28.13      A16S
ATOM  18360  C4  G   A 881     154.495 101.930 -32.075  1.00 28.13      A16S
ATOM  18361  N3  G   A 881     155.807 102.223 -32.042  1.00 28.13      A16S
ATOM  18362  C2  G   A 881     156.093 103.090 -31.098  1.00 28.13      A16S
ATOM  18363  N2  G   A 881     157.358 103.485 -30.925  1.00 28.13      A16S
ATOM  18364  N1  G   A 881     155.160 103.632 -30.256  1.00 28.13      A16S
ATOM  18365  C6  G   A 881     153.805 103.344 -30.275  1.00 28.13      A16S
ATOM  18366  O6  G   A 881     153.054 103.888 -29.472  1.00 28.13      A16S
ATOM  18367  C5  G   A 881     153.488 102.410 -31.278  1.00 28.13      A16S
ATOM  18368  N7  G   A 881     152.272 101.849 -31.633  1.00 28.13      A16S
ATOM  18369  C8  G   A 881     152.562 101.055 -32.624  1.00 28.13      A16S
ATOM  18370  C2* G   A 881     155.330  99.119 -33.285  1.00 28.80      A16S
ATOM  18371  O2* G   A 881     156.459  98.841 -34.082  1.00 28.80      A16S
ATOM  18372  C3* G   A 881     154.317  97.998 -33.380  1.00 28.80      A16S
ATOM  18373  O3* G   A 881     154.937  96.729 -33.305  1.00 28.80      A16S
ATOM  18374  P   C   A 882     154.948  95.924 -31.904  1.00 29.28      A16S
ATOM  18375  O1P C   A 882     155.557  94.601 -32.252  1.00 39.35      A16S
ATOM  18376  O2P C   A 882     153.601  95.951 -31.267  1.00 39.35      A16S
ATOM  18377  O5* C   A 882     155.961  96.762 -31.000  1.00 29.28      A16S
ATOM  18378  C5* C   A 882     157.325  96.872 -31.386  1.00 29.28      A16S
ATOM  18379  C4* C   A 882     158.015  97.934 -30.592  1.00 29.28      A16S
ATOM  18380  O4* C   A 882     157.374  99.203 -30.844  1.00 29.28      A16S
ATOM  18381  C1* C   A 882     157.455 100.011 -29.681  1.00 29.28      A16S
ATOM  18382  N1  C   A 882     156.096 100.298 -29.179  1.00 39.35      A16S
ATOM  18383  C6  C   A 882     155.006  99.596 -29.612  1.00 39.35      A16S
ATOM  18384  C2  C   A 882     155.952 101.285 -28.222  1.00 39.35      A16S
ATOM  18385  O2  C   A 882     156.943 101.929 -27.888  1.00 39.35      A16S
ATOM  18386  N3  C   A 882     154.741 101.517 -27.682  1.00 39.35      A16S
ATOM  18387  C4  C   A 882     153.691 100.802 -28.074  1.00 39.35      A16S
ATOM  18388  N4  C   A 882     152.525 101.027 -27.469  1.00 39.35      A16S
ATOM  18389  C5  C   A 882     153.795  99.814 -29.090  1.00 39.35      A16S
ATOM  18390  C2* C   A 882     158.240  99.224 -28.631  1.00 29.28      A16S
ATOM  18391  O2* C   A 882     159.607  99.566 -28.717  1.00 29.28      A16S
ATOM  18392  C3* C   A 882     157.996  97.794 -29.082  1.00 29.28      A16S
ATOM  18393  O3* C   A 882     159.020  96.950 -28.595  1.00 29.28      A16S
ATOM  18394  P   C   A 883     158.890  96.318 -27.127  1.00 28.31      A16S
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ATOM  18395  O1P C   A 883     159.869  95.217 -27.054  1.00 38.07      A16S
ATOM  18396  O2P C   A 883     157.460  96.047 -26.831  1.00 38.07      A16S
ATOM  18397  O5* C   A 883     159.358  97.467 -26.136  1.00 28.31      A16S
ATOM  18398  C5* C   A 883     160.632  98.100 -26.284  1.00 28.31      A16S
ATOM  18399  C4* C   A 883     160.846  99.089 -25.165  1.00 28.31      A16S
ATOM  18400  O4* C   A 883     159.915 100.194 -25.268  1.00 28.31      A16S
ATOM  18401  C1* C   A 883     159.467 100.552 -23.976  1.00 28.31      A16S
ATOM  18402  N1   C   A 883     157.996 100.464 -23.948  1.00 38.07      A16S
ATOM  18403  C6   C   A 883     157.323  99.749 -24.893  1.00 38.07      A16S
ATOM  18404  C2   C   A 883     157.293 101.151 -22.959  1.00 38.07      A16S
ATOM  18405  O2   C   A 883     157.920 101.758 -22.086  1.00 38.07      A16S
ATOM  18406  N3   C   A 883     155.947 101.137 -22.977  1.00 38.07      A16S
ATOM  18407  C4   C   A 883     155.303 100.470 -23.928  1.00 38.07      A16S
ATOM  18408  N4   C   A 883     153.975 100.524 -23.939  1.00 38.07      A16S
ATOM  18409  C5   C   A 883     155.990  99.728 -24.921  1.00 38.07      A16S
ATOM  18410  C2* C   A 883     160.192  99.673 -22.956  1.00 28.31      A16S
ATOM  18411  O2* C   A 883     161.336 100.333 -22.464  1.00 28.31      A16S
ATOM  18412  C3* C   A 883     160.604  98.483 -23.800  1.00 28.31      A16S
ATOM  18413  O3* C   A 883     161.816  97.934 -23.322  1.00 28.31      A16S
ATOM  18414  P    U   A 884     161.780  96.623 -22.416  1.00 29.51      A16S
ATOM  18415  O1P U   A 884     163.183  96.149 -22.247  1.00 49.42      A16S
ATOM  18416  O2P U   A 884     160.726  95.710 -22.946  1.00 49.42      A16S
ATOM  18417  O5* U   A 884     161.283  97.164 -21.021  1.00 29.51      A16S
ATOM  18418  C5* U   A 884     161.979  98.202 -20.386  1.00 29.51      A16S
ATOM  18419  C4* U   A 884     161.324  98.497 -19.087  1.00 29.51      A16S
ATOM  18420  O4* U   A 884     160.076  99.207 -19.329  1.00 29.51      A16S
ATOM  18421  C1* U   A 884     159.053  98.582 -18.595  1.00 29.51      A16S
ATOM  18422  N1   U   A 884     157.763  98.797 -19.266  1.00 49.42      A16S
ATOM  18423  C6   U   A 884     157.418  98.108 -20.394  1.00 49.42      A16S
ATOM  18424  C2   U   A 884     156.891  99.717 -18.699  1.00 49.42      A16S
ATOM  18425  O2   U   A 884     157.170 100.387 -17.708  1.00 49.42      A16S
ATOM  18426  N3   U   A 884     155.683  99.830 -19.337  1.00 49.42      A16S
ATOM  18427  C4   U   A 884     155.272  99.147 -20.454  1.00 49.42      A16S
ATOM  18428  O4   U   A 884     154.115  99.267 -20.843  1.00 49.42      A16S
ATOM  18429  C5   U   A 884     156.236  98.252 -20.992  1.00 49.42      A16S
ATOM  18430  C2* U   A 884     159.479  97.125 -18.415  1.00 29.51      A16S
ATOM  18431  O2* U   A 884     158.842  96.597 -17.264  1.00 29.51      A16S
ATOM  18432  C3* U   A 884     160.996  97.261 -18.254  1.00 29.51      A16S
ATOM  18433  O3* U   A 884     161.312  97.525 -16.902  1.00 29.51      A16S
ATOM  18434  P    G   A 885     162.341  96.574 -16.113  1.00 33.82      A16S
ATOM  18435  O1P G   A 885     162.334  95.174 -16.637  1.00 35.01      A16S
ATOM  18436  O2P G   A 885     162.047  96.832 -14.679  1.00 35.01      A16S
ATOM  18437  O5* G   A 885     163.765  97.182 -16.427  1.00 33.82      A16S
ATOM  18438  C5* G   A 885     163.912  98.575 -16.583  1.00 33.82      A16S
ATOM  18439  C4* G   A 885     165.217  99.010 -16.012  1.00 33.82      A16S
ATOM  18440  O4* G   A 885     165.211  98.795 -14.580  1.00 33.82      A16S
ATOM  18441  C1* G   A 885     166.518  98.463 -14.151  1.00 33.82      A16S
ATOM  18442  N9   G   A 885     166.485  97.097 -13.647  1.00 35.01      A16S
ATOM  18443  C4   G   A 885     167.509  96.426 -13.017  1.00 35.01      A16S
ATOM  18444  N3   G   A 885     168.722  96.925 -12.726  1.00 35.01      A16S
ATOM  18445  C2   G   A 885     169.490  96.038 -12.124  1.00 35.01      A16S
ATOM  18446  N2   G   A 885     170.732  96.366 -11.796  1.00 35.01      A16S
ATOM  18447  N1   G   A 885     169.101  94.765 -11.815  1.00 35.01      A16S
ATOM  18448  C6   G   A 885     167.863  94.221 -12.117  1.00 35.01      A16S
ATOM  18449  O6   G   A 885     167.618  93.048 -11.818  1.00 35.01      A16S
ATOM  18450  C5   G   A 885     167.024  95.165 -12.773  1.00 35.01      A16S
ATOM  18451  N7   G   A 885     165.722  95.044 -13.235  1.00 35.01      A16S
ATOM  18452  C8   G   A 885     165.444  96.216 -13.736  1.00 35.01      A16S
ATOM  18453  C2* G   A 885     167.418  98.535 -15.381  1.00 33.82      A16S
ATOM  18454  O2* G   A 885     167.924  99.845 -15.556  1.00 33.82      A16S
ATOM  18455  C3* G   A 885     166.424  98.225 -16.474  1.00 33.82      A16S
ATOM  18456  O3* G   A 885     166.885  98.562 -17.756  1.00 33.82      A16S
ATOM  18457  P    G   A 886     167.455  97.390 -18.694  1.00 36.79      A16S
ATOM  18458  O1P G   A 886     167.651  97.957 -20.048  1.00 29.82      A16S
ATOM  18459  O2P G   A 886     166.615  96.170 -18.518  1.00 29.82      A16S
ATOM  18460  O5* G   A 886     168.888  97.085 -18.076  1.00 36.79      A16S
ATOM  18461  C5* G   A 886     169.881  98.115 -18.045  1.00 36.79      A16S
ATOM  18462  C4* G   A 886     171.141  97.629 -17.385  1.00 36.79      A16S
ATOM  18463  O4* G   A 886     170.893  97.327 -15.996  1.00 36.79      A16S
ATOM  18464  C1* G   A 886     171.776  96.314 -15.570  1.00 36.79      A16S
ATOM  18465  N9   G   A 886     170.991  95.167 -15.154  1.00 29.82      A16S
ATOM  18466  C4   G   A 886     171.470  94.072 -14.499  1.00 29.82      A16S
ATOM  18467  N3   G   A 886     172.743  93.880 -14.128  1.00 29.82      A16S
ATOM  18468  C2   G   A 886     172.904  92.728 -13.519  1.00 29.82      A16S
ATOM  18469  N2   G   A 886     174.118  92.377 -13.073  1.00 29.82      A16S
ATOM  18470  N1   G   A 886     171.892  91.834 -13.295  1.00 29.82      A16S
ATOM  18471  C6   G   A 886     170.569  92.016 -13.664  1.00 29.82      A16S
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ATOM  18472  O6  G   A 886     169.730  91.151 -13.397  1.00 29.82      A16S
ATOM  18473  C5  G   A 886     170.385  93.243 -14.322  1.00 29.82      A16S
ATOM  18474  N7  G   A 886     169.239  93.811 -14.858  1.00 29.82      A16S
ATOM  18475  C8  G   A 886     169.648  94.955 -15.341  1.00 29.82      A16S
ATOM  18476  C2* G   A 886     172.651  95.940 -16.760  1.00 36.79      A16S
ATOM  18477  O2* G   A 886     173.856  96.691 -16.713  1.00 36.79      A16S
ATOM  18478  C3* G   A 886     171.758  96.352 -17.914  1.00 36.79      A16S
ATOM  18479  O3* G   A 886     172.489  96.543 -19.102  1.00 36.79      A16S
ATOM  18480  P   G   A 887     172.530  95.365 -20.186  1.00 48.92      A16S
ATOM  18481  O1P G   A 887     173.344  95.923 -21.285  1.00 32.06      A16S
ATOM  18482  O2P G   A 887     171.142  94.902 -20.467  1.00 32.06      A16S
ATOM  18483  O5* G   A 887     173.340  94.190 -19.462  1.00 48.92      A16S
ATOM  18484  C5* G   A 887     174.753  94.337 -19.195  1.00 48.92      A16S
ATOM  18485  C4* G   A 887     175.305  93.142 -18.441  1.00 48.92      A16S
ATOM  18486  O4* G   A 887     174.630  92.995 -17.162  1.00 48.92      A16S
ATOM  18487  C1* G   A 887     174.609  91.629 -16.789  1.00 48.92      A16S
ATOM  18488  N9  G   A 887     173.229  91.184 -16.645  1.00 32.06      A16S
ATOM  18489  C4  G   A 887     172.836  90.006 -16.085  1.00 32.06      A16S
ATOM  18490  N3  G   A 887     173.651  89.093 -15.538  1.00 32.06      A16S
ATOM  18491  C2  G   A 887     172.982  88.044 -15.102  1.00 32.06      A16S
ATOM  18492  N2  G   A 887     173.638  87.037 -14.532  1.00 32.06      A16S
ATOM  18493  N1  G   A 887     171.623  87.905 -15.193  1.00 32.06      A16S
ATOM  18494  C6  G   A 887     170.766  88.840 -15.758  1.00 32.06      A16S
ATOM  18495  O6  G   A 887     169.556  88.623 -15.793  1.00 32.06      A16S
ATOM  18496  C5  G   A 887     171.468  89.965 -16.232  1.00 32.06      A16S
ATOM  18497  N7  G   A 887     171.005  91.111 -16.857  1.00 32.06      A16S
ATOM  18498  C8  G   A 887     172.084  91.812 -17.074  1.00 32.06      A16S
ATOM  18499  C2* G   A 887     175.292  90.834 -17.900  1.00 48.92      A16S
ATOM  18500  O2* G   A 887     176.617  90.593 -17.510  1.00 48.92      A16S
ATOM  18501  C3* G   A 887     175.174  91.777 -19.093  1.00 48.92      A16S
ATOM  18502  O3* G   A 887     176.197  91.536 -20.053  1.00 48.92      A16S
ATOM  18503  P   G   A 888     175.850  90.720 -21.401  1.00 38.95      A16S
ATOM  18504  O1P G   A 888     177.128  90.569 -22.125  1.00 48.34      A16S
ATOM  18505  O2P G   A 888     174.685  91.349 -22.096  1.00 48.34      A16S
ATOM  18506  O5* G   A 888     175.396  89.284 -20.878  1.00 38.95      A16S
ATOM  18507  C5* G   A 888     176.315  88.435 -20.187  1.00 38.95      A16S
ATOM  18508  C4* G   A 888     175.599  87.238 -19.612  1.00 38.95      A16S
ATOM  18509  O4* G   A 888     174.670  87.667 -18.593  1.00 38.95      A16S
ATOM  18510  C1* G   A 888     173.518  86.846 -18.619  1.00 38.95      A16S
ATOM  18511  N9  G   A 888     172.393  87.678 -19.031  1.00 48.34      A16S
ATOM  18512  C4  G   A 888     171.064  87.424 -18.804  1.00 48.34      A16S
ATOM  18513  N3  G   A 888     170.566  86.377 -18.119  1.00 48.34      A16S
ATOM  18514  C2  G   A 888     169.255  86.396 -18.085  1.00 48.34      A16S
ATOM  18515  N2  G   A 888     168.598  85.434 -17.437  1.00 48.34      A16S
ATOM  18516  N1  G   A 888     168.492  87.361 -18.680  1.00 48.34      A16S
ATOM  18517  C6  G   A 888     168.985  88.451 -19.387  1.00 48.34      A16S
ATOM  18518  O6  G   A 888     168.204  89.276 -19.883  1.00 48.34      A16S
ATOM  18519  C5  G   A 888     170.386  88.444 -19.428  1.00 48.34      A16S
ATOM  18520  N7  G   A 888     171.269  89.334 -20.019  1.00 48.34      A16S
ATOM  18521  C8  G   A 888     172.447  88.846 -19.752  1.00 48.34      A16S
ATOM  18522  C2* G   A 888     173.757  85.753 -19.657  1.00 38.95      A16S
ATOM  18523  O2* G   A 888     174.285  84.600 -19.035  1.00 38.95      A16S
ATOM  18524  C3* G   A 888     174.751  86.437 -20.580  1.00 38.95      A16S
ATOM  18525  O3* G   A 888     175.534  85.507 -21.283  1.00 38.95      A16S
ATOM  18526  P   A   A 889     175.126  85.094 -22.774  1.00 42.91      A16S
ATOM  18527  O1P A   A 889     173.862  84.323 -22.715  1.00 39.36      A16S
ATOM  18528  O2P A   A 889     176.331  84.510 -23.413  1.00 39.36      A16S
ATOM  18529  O5* A   A 889     174.832  86.453 -23.519  1.00 42.91      A16S
ATOM  18530  C5* A   A 889     174.916  86.504 -24.931  1.00 42.91      A16S
ATOM  18531  C4* A   A 889     173.850  87.405 -25.465  1.00 42.91      A16S
ATOM  18532  O4* A   A 889     172.549  86.860 -25.119  1.00 42.91      A16S
ATOM  18533  C1* A   A 889     171.786  87.846 -24.466  1.00 42.91      A16S
ATOM  18534  N9  A   A 889     170.872  87.172 -23.544  1.00 39.36      A16S
ATOM  18535  C4  A   A 889     169.537  87.438 -23.392  1.00 39.36      A16S
ATOM  18536  N3  A   A 889     168.815  88.368 -24.031  1.00 39.36      A16S
ATOM  18537  C2  A   A 889     167.546  88.337 -23.624  1.00 39.36      A16S
ATOM  18538  N1  A   A 889     166.963  87.535 -22.723  1.00 39.36      A16S
ATOM  18539  C6  A   A 889     167.722  86.604 -22.108  1.00 39.36      A16S
ATOM  18540  N6  A   A 889     167.145  85.793 -21.217  1.00 39.36      A16S
ATOM  18541  C5  A   A 889     169.080  86.541 -22.446  1.00 39.36      A16S
ATOM  18542  N7  A   A 889     170.106  85.727 -22.007  1.00 39.36      A16S
ATOM  18543  C8  A   A 889     171.146  86.143 -22.685  1.00 39.36      A16S
ATOM  18544  C2* A   A 889     172.798  88.827 -23.867  1.00 42.91      A16S
ATOM  18545  O2* A   A 889     172.237  90.116 -23.750  1.00 42.91      A16S
ATOM  18546  C3* A   A 889     173.886  88.829 -24.936  1.00 42.91      A16S
ATOM  18547  O3* A   A 889     173.464  89.670 -25.993  1.00 42.91      A16S
ATOM  18548  P   G   A 890     174.514  90.614 -26.739  1.00 47.42      A16S
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ATOM  18549  O1P G   A 890     175.559  89.720 -27.292  1.00 57.66      A16S
ATOM  18550  O2P G   A 890     174.896  91.737 -25.853  1.00 57.66      A16S
ATOM  18551  O5* G   A 890     173.640  91.244 -27.909  1.00 47.42      A16S
ATOM  18552  C5* G   A 890     173.456  90.555 -29.169  1.00 47.42      A16S
ATOM  18553  C4* G   A 890     172.471  89.415 -29.021  1.00 47.42      A16S
ATOM  18554  O4* G   A 890     171.171  89.897 -28.581  1.00 47.42      A16S
ATOM  18555  C1* G   A 890     170.176  89.357 -29.422  1.00 47.42      A16S
ATOM  18556  N9  G   A 890     169.009  90.229 -29.422  1.00 57.66      A16S
ATOM  18557  C4  G   A 890     167.825  89.993 -28.773  1.00 57.66      A16S
ATOM  18558  N3  G   A 890     167.536  88.916 -28.016  1.00 57.66      A16S
ATOM  18559  C2  G   A 890     166.321  88.985 -27.507  1.00 57.66      A16S
ATOM  18560  N2  G   A 890     165.859  88.012 -26.720  1.00 57.66      A16S
ATOM  18561  N1  G   A 890     165.462  90.019 -27.728  1.00 57.66      A16S
ATOM  18562  C6  G   A 890     165.736  91.137 -28.505  1.00 57.66      A16S
ATOM  18563  O6  G   A 890     164.876  92.024 -28.639  1.00 57.66      A16S
ATOM  18564  C5  G   A 890     167.034  91.079 -29.052  1.00 57.66      A16S
ATOM  18565  N7  G   A 890     167.702  91.977 -29.866  1.00 57.66      A16S
ATOM  18566  C8  G   A 890     168.868  91.432 -30.060  1.00 57.66      A16S
ATOM  18567  C2* G   A 890     170.873  89.167 -30.763  1.00 47.42      A16S
ATOM  18568  O2* G   A 890     170.173  88.245 -31.558  1.00 47.42      A16S
ATOM  18569  C3* G   A 890     172.212  88.630 -30.299  1.00 47.42      A16S
ATOM  18570  O3* G   A 890     172.023  87.276 -29.929  1.00 47.42      A16S
ATOM  18571  P   U   A 891     171.948  86.139 -31.054  1.00 38.56      A16S
ATOM  18572  O1P U   A 891     172.876  86.541 -32.140  1.00 35.44      A16S
ATOM  18573  O2P U   A 891     170.528  85.833 -31.375  1.00 35.44      A16S
ATOM  18574  O5* U   A 891     172.546  84.866 -30.310  1.00 38.56      A16S
ATOM  18575  C5* U   A 891     173.834  84.917 -29.689  1.00 38.56      A16S
ATOM  18576  C4* U   A 891     173.802  84.192 -28.375  1.00 38.56      A16S
ATOM  18577  O4* U   A 891     173.190  85.032 -27.373  1.00 38.56      A16S
ATOM  18578  C1* U   A 891     172.487  84.227 -26.440  1.00 38.56      A16S
ATOM  18579  N1  U   A 891     171.074  84.659 -26.404  1.00 35.44      A16S
ATOM  18580  C6  U   A 891     170.589  85.626 -27.258  1.00 35.44      A16S
ATOM  18581  C2  U   A 891     170.234  84.058 -25.479  1.00 35.44      A16S
ATOM  18582  O2  U   A 891     170.595  83.188 -24.699  1.00 35.44      A16S
ATOM  18583  N3  U   A 891     168.947  84.508 -25.501  1.00 35.44      A16S
ATOM  18584  C4  U   A 891     168.411  85.457 -26.317  1.00 35.44      A16S
ATOM  18585  O4  U   A 891     167.222  85.723 -26.209  1.00 35.44      A16S
ATOM  18586  C5  U   A 891     169.321  86.032 -27.243  1.00 35.44      A16S
ATOM  18587  C2* U   A 891     172.671  82.769 -26.867  1.00 38.56      A16S
ATOM  18588  O2* U   A 891     173.750  82.229 -26.149  1.00 38.56      A16S
ATOM  18589  C3* U   A 891     172.987  82.919 -28.344  1.00 38.56      A16S
ATOM  18590  O3* U   A 891     173.690  81.823 -28.874  1.00 38.56      A16S
ATOM  18591  P   A   A 892     172.942  80.827 -29.892  1.00 38.35      A16S
ATOM  18592  O1P A   A 892     174.005  80.048 -30.592  1.00 30.55      A16S
ATOM  18593  O2P A   A 892     171.926  81.591 -30.695  1.00 30.55      A16S
ATOM  18594  O5* A   A 892     172.150  79.840 -28.941  1.00 38.35      A16S
ATOM  18595  C5* A   A 892     172.837  79.108 -27.956  1.00 38.35      A16S
ATOM  18596  C4* A   A 892     171.854  78.455 -27.037  1.00 38.35      A16S
ATOM  18597  O4* A   A 892     171.217  79.444 -26.203  1.00 38.35      A16S
ATOM  18598  C1* A   A 892     169.899  79.032 -25.915  1.00 38.35      A16S
ATOM  18599  N9  A   A 892     168.999  80.079 -26.380  1.00 30.55      A16S
ATOM  18600  C4  A   A 892     167.661  80.188 -26.107  1.00 30.55      A16S
ATOM  18601  N3  A   A 892     166.912  79.351 -25.378  1.00 30.55      A16S
ATOM  18602  C2  A   A 892     165.665  79.787 -25.316  1.00 30.55      A16S
ATOM  18603  N1  A   A 892     165.122  80.885 -25.854  1.00 30.55      A16S
ATOM  18604  C6  A   A 892     165.913  81.709 -26.575  1.00 30.55      A16S
ATOM  18605  N6  A   A 892     165.388  82.822 -27.096  1.00 30.55      A16S
ATOM  18606  C5  A   A 892     167.247  81.351 -26.725  1.00 30.55      A16S
ATOM  18607  N7  A   A 892     168.299  81.957 -27.391  1.00 30.55      A16S
ATOM  18608  C8  A   A 892     169.313  81.165 -27.157  1.00 30.55      A16S
ATOM  18609  C2* A   A 892     169.671  77.685 -26.599  1.00 38.35      A16S
ATOM  18610  O2* A   A 892     169.994  76.636 -25.708  1.00 38.35      A16S
ATOM  18611  C3* A   A 892     170.705  77.727 -27.702  1.00 38.35      A16S
ATOM  18612  O3* A   A 892     171.085  76.422 -28.070  1.00 38.35      A16S
ATOM  18613  P   C   A 893     170.537  75.805 -29.440  1.00 42.38      A16S
ATOM  18614  O1P C   A 893     171.316  74.561 -29.647  1.00 45.71      A16S
ATOM  18615  O2P C   A 893     170.548  76.858 -30.493  1.00 45.71      A16S
ATOM  18616  O5* C   A 893     169.023  75.450 -29.099  1.00 42.38      A16S
ATOM  18617  C5* C   A 893     168.712  74.540 -28.036  1.00 42.38      A16S
ATOM  18618  C4* C   A 893     167.233  74.552 -27.755  1.00 42.38      A16S
ATOM  18619  O4* C   A 893     166.865  75.784 -27.099  1.00 42.38      A16S
ATOM  18620  C1* C   A 893     165.568  76.177 -27.505  1.00 42.38      A16S
ATOM  18621  N1  C   A 893     165.644  77.495 -28.163  1.00 45.71      A16S
ATOM  18622  C6  C   A 893     166.788  77.914 -28.779  1.00 45.71      A16S
ATOM  18623  C2  C   A 893     164.514  78.318 -28.145  1.00 45.71      A16S
ATOM  18624  O2  C   A 893     163.482  77.914 -27.579  1.00 45.71      A16S
ATOM  18625  N3  C   A 893     164.567  79.528 -28.739  1.00 45.71      A16S
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ATOM  18626  C4  C   A 893     165.688  79.931 -29.325  1.00 45.71      A16S
ATOM  18627  N4  C   A 893     165.698  81.143 -29.879  1.00 45.71      A16S
ATOM  18628  C5  C   A 893     166.853  79.112 -29.366  1.00 45.71      A16S
ATOM  18629  C2* C   A 893     165.037  75.096 -28.432  1.00 42.38      A16S
ATOM  18630  O2* C   A 893     164.320  74.177 -27.648  1.00 42.38      A16S
ATOM  18631  C3* C   A 893     166.326  74.496 -28.965  1.00 42.38      A16S
ATOM  18632  O3* C   A 893     166.141  73.175 -29.438  1.00 42.38      A16S
ATOM  18633  P   G   A 894     166.024  72.918 -31.018  1.00 45.44      A16S
ATOM  18634  O1P G   A 894     166.142  71.448 -31.222  1.00 51.53      A16S
ATOM  18635  O2P G   A 894     166.976  73.844 -31.703  1.00 51.53      A16S
ATOM  18636  O5* G   A 894     164.538  73.380 -31.360  1.00 45.44      A16S
ATOM  18637  C5* G   A 894     163.423  72.836 -30.637  1.00 45.44      A16S
ATOM  18638  C4* G   A 894     162.199  73.690 -30.834  1.00 45.44      A16S
ATOM  18639  O4* G   A 894     162.356  74.951 -30.143  1.00 45.44      A16S
ATOM  18640  C1* G   A 894     161.655  75.965 -30.839  1.00 45.44      A16S
ATOM  18641  N9  G   A 894     162.597  77.009 -31.218  1.00 51.53      A16S
ATOM  18642  C4  G   A 894     162.277  78.242 -31.721  1.00 51.53      A16S
ATOM  18643  N3  G   A 894     161.035  78.704 -31.942  1.00 51.53      A16S
ATOM  18644  C2  G   A 894     161.044  79.925 -32.435  1.00 51.53      A16S
ATOM  18645  N2  G   A 894     159.891  80.539 -32.697  1.00 51.53      A16S
ATOM  18646  N1  G   A 894     162.182  80.638 -32.699  1.00 51.53      A16S
ATOM  18647  C6  G   A 894     163.474  80.188 -32.470  1.00 51.53      A16S
ATOM  18648  O6  G   A 894     164.441  80.926 -32.723  1.00 51.53      A16S
ATOM  18649  C5  G   A 894     163.478  78.872 -31.940  1.00 51.53      A16S
ATOM  18650  N7  G   A 894     164.536  78.052 -31.581  1.00 51.53      A16S
ATOM  18651  C8  G   A 894     163.964  76.960 -31.156  1.00 51.53      A16S
ATOM  18652  C2* G   A 894     161.000  75.322 -32.059  1.00 45.44      A16S
ATOM  18653  O2* G   A 894     159.660  74.983 -31.753  1.00 45.44      A16S
ATOM  18654  C3* G   A 894     161.877  74.097 -32.258  1.00 45.44      A16S
ATOM  18655  O3* G   A 894     161.232  73.078 -32.999  1.00 45.44      A16S
ATOM  18656  P   G   A 895     161.595  72.897 -34.554  1.00 36.01      A16S
ATOM  18657  O1P G   A 895     161.035  71.599 -35.000  1.00 46.57      A16S
ATOM  18658  O2P G   A 895     163.042  73.173 -34.733  1.00 46.57      A16S
ATOM  18659  O5* G   A 895     160.785  74.066 -35.263  1.00 36.01      A16S
ATOM  18660  C5* G   A 895     159.367  74.158 -35.082  1.00 36.01      A16S
ATOM  18661  C4* G   A 895     158.855  75.492 -35.553  1.00 36.01      A16S
ATOM  18662  O4* G   A 895     159.387  76.550 -34.727  1.00 36.01      A16S
ATOM  18663  C1* G   A 895     159.553  77.713 -35.510  1.00 36.01      A16S
ATOM  18664  N9  G   A 895     160.951  78.102 -35.470  1.00 46.57      A16S
ATOM  18665  C4  G   A 895     161.451  79.331 -35.784  1.00 46.57      A16S
ATOM  18666  N3  G   A 895     160.731  80.394 -36.189  1.00 46.57      A16S
ATOM  18667  C2  G   A 895     161.494  81.444 -36.420  1.00 46.57      A16S
ATOM  18668  N2  G   A 895     160.941  82.587 -36.834  1.00 46.57      A16S
ATOM  18669  N1  G   A 895     162.856  81.447 -36.264  1.00 46.57      A16S
ATOM  18670  C6  G   A 895     163.614  80.351 -35.858  1.00 46.57      A16S
ATOM  18671  O6  G   A 895     164.850  80.441 -35.771  1.00 46.57      A16S
ATOM  18672  C5  G   A 895     162.804  79.229 -35.604  1.00 46.57      A16S
ATOM  18673  N7  G   A 895     163.151  77.957 -35.186  1.00 46.57      A16S
ATOM  18674  C8  G   A 895     162.018  77.324 -35.120  1.00 46.57      A16S
ATOM  18675  C2* G   A 895     159.111  77.390 -36.932  1.00 36.01      A16S
ATOM  18676  O2* G   A 895     157.772  77.778 -37.066  1.00 36.01      A16S
ATOM  18677  C3* G   A 895     159.248  75.882 -36.960  1.00 36.01      A16S
ATOM  18678  O3* G   A 895     158.368  75.308 -37.894  1.00 36.01      A16S
ATOM  18679  P   C   A 896     158.889  74.990 -39.376  1.00 44.82      A16S
ATOM  18680  O1P C   A 896     157.801  74.218 -40.034  1.00 39.90      A16S
ATOM  18681  O2P C   A 896     160.247  74.404 -39.277  1.00 39.90      A16S
ATOM  18682  O5* C   A 896     158.991  76.422 -40.067  1.00 44.82      A16S
ATOM  18683  C5* C   A 896     157.808  77.169 -40.340  1.00 44.82      A16S
ATOM  18684  C4* C   A 896     158.152  78.567 -40.774  1.00 44.82      A16S
ATOM  18685  O4* C   A 896     158.767  79.283 -39.677  1.00 44.82      A16S
ATOM  18686  C1* C   A 896     159.704  80.217 -40.185  1.00 44.82      A16S
ATOM  18687  N1  C   A 896     161.045  79.877 -39.679  1.00 39.90      A16S
ATOM  18688  C6  C   A 896     161.309  78.652 -39.134  1.00 39.90      A16S
ATOM  18689  C2  C   A 896     162.058  80.834 -39.789  1.00 39.90      A16S
ATOM  18690  O2  C   A 896     161.785  81.947 -40.273  1.00 39.90      A16S
ATOM  18691  N3  C   A 896     163.304  80.524 -39.369  1.00 39.90      A16S
ATOM  18692  C4  C   A 896     163.550  79.323 -38.848  1.00 39.90      A16S
ATOM  18693  N4  C   A 896     164.789  79.065 -38.439  1.00 39.90      A16S
ATOM  18694  C5  C   A 896     162.534  78.335 -38.716  1.00 39.90      A16S
ATOM  18695  C2* C   A 896     159.668  80.117 -41.707  1.00 44.82      A16S
ATOM  18696  O2* C   A 896     158.793  81.096 -42.230  1.00 44.82      A16S
ATOM  18697  C3* C   A 896     159.152  78.704 -41.902  1.00 44.82      A16S
ATOM  18698  O3* C   A 896     158.600  78.520 -43.184  1.00 44.82      A16S
ATOM  18699  P   C   A 897     159.515  77.869 -44.323  1.00 53.47      A16S
ATOM  18700  O1P C   A 897     158.706  77.662 -45.553  1.00 28.50      A16S
ATOM  18701  O2P C   A 897     160.212  76.710 -43.697  1.00 28.50      A16S
ATOM  18702  O5* C   A 897     160.556  79.025 -44.650  1.00 53.47      A16S
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ATOM  18703  C5*  C   A 897     160.090  80.224 -45.265  1.00 53.47      A16S
ATOM  18704  C4*  C   A 897     161.208  81.211 -45.434  1.00 53.47      A16S
ATOM  18705  O4*  C   A 897     161.690  81.670 -44.144  1.00 53.47      A16S
ATOM  18706  C1*  C   A 897     163.062  81.996 -44.249  1.00 53.47      A16S
ATOM  18707  N1   C   A 897     163.831  81.089 -43.391  1.00 28.50      A16S
ATOM  18708  C6   C   A 897     163.315  79.898 -42.973  1.00 28.50      A16S
ATOM  18709  C2   C   A 897     165.134  81.453 -43.045  1.00 28.50      A16S
ATOM  18710  O2   C   A 897     165.562  82.561 -43.406  1.00 28.50      A16S
ATOM  18711  N3   C   A 897     165.893  80.594 -42.337  1.00 28.50      A16S
ATOM  18712  C4   C   A 897     165.397  79.416 -41.981  1.00 28.50      A16S
ATOM  18713  N4   C   A 897     166.197  78.583 -41.346  1.00 28.50      A16S
ATOM  18714  C5   C   A 897     164.059  79.038 -42.278  1.00 28.50      A16S
ATOM  18715  C2*  C   A 897     163.480  81.756 -45.699  1.00 53.47      A16S
ATOM  18716  O2*  C   A 897     163.378  82.961 -46.431  1.00 53.47      A16S
ATOM  18717  C3*  C   A 897     162.456  80.724 -46.138  1.00 53.47      A16S
ATOM  18718  O3*  C   A 897     162.310  80.698 -47.534  1.00 53.47      A16S
ATOM  18719  P    G   A 898     163.092  79.585 -48.376  1.00 40.17      A16S
ATOM  18720  O1P  G   A 898     162.690  79.778 -49.796  1.00 39.35      A16S
ATOM  18721  O2P  G   A 898     162.931  78.250 -47.734  1.00 39.35      A16S
ATOM  18722  O5*  G   A 898     164.614  79.999 -48.225  1.00 40.17      A16S
ATOM  18723  C5*  G   A 898     165.121  81.132 -48.927  1.00 40.17      A16S
ATOM  18724  C4*  G   A 898     166.584  81.287 -48.654  1.00 40.17      A16S
ATOM  18725  O4*  G   A 898     166.769  81.537 -47.241  1.00 40.17      A16S
ATOM  18726  C1*  G   A 898     168.008  81.009 -46.828  1.00 40.17      A16S
ATOM  18727  N9   G   A 898     167.776  79.994 -45.818  1.00 39.35      A16S
ATOM  18728  C4   G   A 898     168.730  79.494 -44.992  1.00 39.35      A16S
ATOM  18729  N3   G   A 898     169.994  79.942 -44.900  1.00 39.35      A16S
ATOM  18730  C2   G   A 898     170.708  79.221 -44.071  1.00 39.35      A16S
ATOM  18731  N2   G   A 898     171.985  79.547 -43.849  1.00 39.35      A16S
ATOM  18732  N1   G   A 898     170.225  78.129 -43.398  1.00 39.35      A16S
ATOM  18733  C6   G   A 898     168.929  77.639 -43.498  1.00 39.35      A16S
ATOM  18734  O6   G   A 898     168.612  76.607 -42.896  1.00 39.35      A16S
ATOM  18735  C5   G   A 898     168.143  78.432 -44.353  1.00 39.35      A16S
ATOM  18736  N7   G   A 898     166.809  78.324 -44.706  1.00 39.35      A16S
ATOM  18737  C8   G   A 898     166.632  79.287 -45.568  1.00 39.35      A16S
ATOM  18738  C2*  G   A 898     168.642  80.327 -48.040  1.00 40.17      A16S
ATOM  18739  O2*  G   A 898     169.557  81.182 -48.692  1.00 40.17      A16S
ATOM  18740  C3*  G   A 898     167.427  80.055 -48.899  1.00 40.17      A16S
ATOM  18741  O3*  G   A 898     167.786  79.888 -50.247  1.00 40.17      A16S
ATOM  18742  P    C   A 899     167.779  78.411 -50.872  1.00 39.34      A16S
ATOM  18743  O1P  C   A 899     166.433  77.816 -50.631  1.00 40.60      A16S
ATOM  18744  O2P  C   A 899     168.324  78.484 -52.246  1.00 40.60      A16S
ATOM  18745  O5*  C   A 899     168.803  77.589 -49.980  1.00 39.34      A16S
ATOM  18746  C5*  C   A 899     169.140  76.241 -50.320  1.00 39.34      A16S
ATOM  18747  C4*  C   A 899     170.634  76.092 -50.457  1.00 39.34      A16S
ATOM  18748  O4*  C   A 899     171.101  76.810 -51.621  1.00 39.34      A16S
ATOM  18749  C1*  C   A 899     172.400  77.311 -51.371  1.00 39.34      A16S
ATOM  18750  N1   C   A 899     172.396  78.765 -51.590  1.00 40.60      A16S
ATOM  18751  C6   C   A 899     171.256  79.499 -51.433  1.00 40.60      A16S
ATOM  18752  C2   C   A 899     173.576  79.384 -51.986  1.00 40.60      A16S
ATOM  18753  O2   C   A 899     174.613  78.704 -52.069  1.00 40.60      A16S
ATOM  18754  N3   C   A 899     173.569  80.711 -52.263  1.00 40.60      A16S
ATOM  18755  C4   C   A 899     172.446  81.409 -52.137  1.00 40.60      A16S
ATOM  18756  N4   C   A 899     172.480  82.701 -52.445  1.00 40.60      A16S
ATOM  18757  C5   C   A 899     171.236  80.810 -51.695  1.00 40.60      A16S
ATOM  18758  C2*  C   A 899     172.806  76.888 -49.960  1.00 39.34      A16S
ATOM  18759  O2*  C   A 899     173.524  75.675 -50.014  1.00 39.34      A16S
ATOM  18760  C3*  C   A 899     171.460  76.645 -49.312  1.00 39.34      A16S
ATOM  18761  O3*  C   A 899     171.577  75.705 -48.271  1.00 39.34      A16S
ATOM  18762  P    A   A 900     171.405  76.194 -46.761  1.00 35.18      A16S
ATOM  18763  O1P  A   A 900     171.328  75.000 -45.889  1.00 38.38      A16S
ATOM  18764  O2P  A   A 900     170.294  77.172 -46.754  1.00 38.38      A16S
ATOM  18765  O5*  A   A 900     172.779  76.925 -46.437  1.00 35.18      A16S
ATOM  18766  C5*  A   A 900     173.988  76.167 -46.309  1.00 35.18      A16S
ATOM  18767  C4*  A   A 900     175.187  77.068 -46.442  1.00 35.18      A16S
ATOM  18768  O4*  A   A 900     175.091  77.789 -47.690  1.00 35.18      A16S
ATOM  18769  C1*  A   A 900     175.514  79.125 -47.506  1.00 35.18      A16S
ATOM  18770  N9   A   A 900     174.369  79.992 -47.797  1.00 38.38      A16S
ATOM  18771  C4   A   A 900     174.389  81.303 -48.213  1.00 38.38      A16S
ATOM  18772  N3   A   A 900     175.462  82.081 -48.413  1.00 38.38      A16S
ATOM  18773  C2   A   A 900     175.097  83.278 -48.851  1.00 38.38      A16S
ATOM  18774  N1   A   A 900     173.877  83.754 -49.089  1.00 38.38      A16S
ATOM  18775  C6   A   A 900     172.817  82.949 -48.872  1.00 38.38      A16S
ATOM  18776  N6   A   A 900     171.590  83.427 -49.104  1.00 38.38      A16S
ATOM  18777  C5   A   A 900     173.070  81.653 -48.413  1.00 38.38      A16S
ATOM  18778  N7   A   A 900     172.230  80.593 -48.115  1.00 38.38      A16S
ATOM  18779  C8   A   A 900     173.045  79.640 -47.744  1.00 38.38      A16S
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ATOM  18780  C2* A   A 900     176.071  79.233 -46.087  1.00 35.18      A16S
ATOM  18781  O2* A   A 900     177.444  78.902 -46.122  1.00 35.18      A16S
ATOM  18782  C3* A   A 900     175.310  78.137 -45.372  1.00 35.18      A16S
ATOM  18783  O3* A   A 900     176.075  77.632 -44.295  1.00 35.18      A16S
ATOM  18784  P    A   A 901     175.808  78.170 -42.812  1.00 31.18      A16S
ATOM  18785  O1P A   A 901     176.693  77.404 -41.898  1.00 27.96      A16S
ATOM  18786  O2P A   A 901     174.341  78.172 -42.567  1.00 27.96      A16S
ATOM  18787  O5* A   A 901     176.342  79.668 -42.862  1.00 31.18      A16S
ATOM  18788  C5* A   A 901     177.748  79.948 -42.843  1.00 31.18      A16S
ATOM  18789  C4* A   A 901     177.995  81.396 -43.182  1.00 31.18      A16S
ATOM  18790  O4* A   A 901     177.437  81.673 -44.489  1.00 31.18      A16S
ATOM  18791  C1* A   A 901     176.915  82.985 -44.529  1.00 31.18      A16S
ATOM  18792  N9   A   A 901     175.474  82.906 -44.734  1.00 27.96      A16S
ATOM  18793  C4   A   A 901     174.694  83.833 -45.378  1.00 27.96      A16S
ATOM  18794  N3   A   A 901     175.096  84.975 -45.963  1.00 27.96      A16S
ATOM  18795  C2   A   A 901     174.058  85.628 -46.461  1.00 27.96      A16S
ATOM  18796  N1   A   A 901     172.768  85.299 -46.433  1.00 27.96      A16S
ATOM  18797  C6   A   A 901     172.404  84.148 -45.837  1.00 27.96      A16S
ATOM  18798  N6   A   A 901     171.116  83.822 -45.804  1.00 27.96      A16S
ATOM  18799  C5   A   A 901     173.402  83.363 -45.286  1.00 27.96      A16S
ATOM  18800  N7   A   A 901     173.364  82.151 -44.621  1.00 27.96      A16S
ATOM  18801  C8   A   A 901     174.615  81.924 -44.315  1.00 27.96      A16S
ATOM  18802  C2* A   A 901     177.234  83.629 -43.193  1.00 31.18      A16S
ATOM  18803  O2* A   A 901     178.471  84.272 -43.365  1.00 31.18      A16S
ATOM  18804  C3* A   A 901     177.337  82.418 -42.280  1.00 31.18      A16S
ATOM  18805  O3* A   A 901     178.131  82.686 -41.142  1.00 31.18      A16S
ATOM  18806  P    G   A 902     177.609  82.233 -39.694  1.00 37.44      A16S
ATOM  18807  O1P G   A 902     178.571  82.752 -38.690  1.00 38.90      A16S
ATOM  18808  O2P G   A 902     177.323  80.775 -39.755  1.00 38.90      A16S
ATOM  18809  O5* G   A 902     176.204  82.963 -39.501  1.00 37.44      A16S
ATOM  18810  C5* G   A 902     176.096  84.385 -39.560  1.00 37.44      A16S
ATOM  18811  C4* G   A 902     174.883  84.802 -40.378  1.00 37.44      A16S
ATOM  18812  O4* G   A 902     174.527  83.769 -41.336  1.00 37.44      A16S
ATOM  18813  C1* G   A 902     173.156  83.892 -41.673  1.00 37.44      A16S
ATOM  18814  N9   G   A 902     172.454  82.650 -41.371  1.00 38.90      A16S
ATOM  18815  C4   G   A 902     171.148  82.376 -41.686  1.00 38.90      A16S
ATOM  18816  N3   G   A 902     170.311  83.192 -42.344  1.00 38.90      A16S
ATOM  18817  C2   G   A 902     169.102  82.677 -42.451  1.00 38.90      A16S
ATOM  18818  N2   G   A 902     168.132  83.373 -43.065  1.00 38.90      A16S
ATOM  18819  N1   G   A 902     168.746  81.453 -41.963  1.00 38.90      A16S
ATOM  18820  C6   G   A 902     169.594  80.594 -41.286  1.00 38.90      A16S
ATOM  18821  O6   G   A 902     169.172  79.513 -40.879  1.00 38.90      A16S
ATOM  18822  C5   G   A 902     170.895  81.139 -41.158  1.00 38.90      A16S
ATOM  18823  N7   G   A 902     172.027  80.626 -40.543  1.00 38.90      A16S
ATOM  18824  C8   G   A 902     172.928  81.554 -40.705  1.00 38.90      A16S
ATOM  18825  C2* G   A 902     172.587  85.039 -40.847  1.00 37.44      A16S
ATOM  18826  O2* G   A 902     172.639  86.213 -41.637  1.00 37.44      A16S
ATOM  18827  C3* G   A 902     173.560  85.091 -39.681  1.00 37.44      A16S
ATOM  18828  O3* G   A 902     173.506  86.375 -39.076  1.00 37.44      A16S
ATOM  18829  P    G   A 903     172.391  86.669 -37.957  1.00 32.86      A16S
ATOM  18830  O1P G   A 903     172.767  87.910 -37.190  1.00 36.76      A16S
ATOM  18831  O2P G   A 903     172.179  85.392 -37.219  1.00 36.76      A16S
ATOM  18832  O5* G   A 903     171.073  86.981 -38.801  1.00 32.86      A16S
ATOM  18833  C5* G   A 903     171.027  88.072 -39.729  1.00 32.86      A16S
ATOM  18834  C4* G   A 903     169.674  88.134 -40.391  1.00 32.86      A16S
ATOM  18835  O4* G   A 903     169.438  86.900 -41.111  1.00 32.86      A16S
ATOM  18836  C1* G   A 903     168.073  86.540 -41.018  1.00 32.86      A16S
ATOM  18837  N9   G   A 903     168.001  85.269 -40.314  1.00 36.76      A16S
ATOM  18838  C4   G   A 903     166.908  84.448 -40.177  1.00 36.76      A16S
ATOM  18839  N3   G   A 903     165.673  84.677 -40.660  1.00 36.76      A16S
ATOM  18840  C2   G   A 903     164.844  83.680 -40.381  1.00 36.76      A16S
ATOM  18841  N2   G   A 903     163.579  83.722 -40.804  1.00 36.76      A16S
ATOM  18842  N1   G   A 903     165.196  82.564 -39.677  1.00 36.76      A16S
ATOM  18843  C6   G   A 903     166.462  82.309 -39.178  1.00 36.76      A16S
ATOM  18844  O6   G   A 903     166.687  81.253 -38.575  1.00 36.76      A16S
ATOM  18845  C5   G   A 903     167.357  83.362 -39.467  1.00 36.76      A16S
ATOM  18846  N7   G   A 903     168.694  83.505 -39.146  1.00 36.76      A16S
ATOM  18847  C8   G   A 903     169.030  84.650 -39.665  1.00 36.76      A16S
ATOM  18848  C2* G   A 903     167.358  87.659 -40.270  1.00 32.86      A16S
ATOM  18849  O2* G   A 903     166.860  88.606 -41.190  1.00 32.86      A16S
ATOM  18850  C3* G   A 903     168.491  88.244 -39.450  1.00 32.86      A16S
ATOM  18851  O3* G   A 903     168.212  89.582 -39.097  1.00 32.86      A16S
ATOM  18852  P    C   A 904     167.734  89.918 -37.602  1.00 34.25      A16S
ATOM  18853  O1P C   A 904     167.749  91.402 -37.479  1.00 26.67      A16S
ATOM  18854  O2P C   A 904     168.502  89.103 -36.652  1.00 26.67      A16S
ATOM  18855  O5* C   A 904     166.221  89.452 -37.573  1.00 34.25      A16S
ATOM  18856  C5* C   A 904     165.260  90.141 -38.378  1.00 34.25      A16S
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ATOM  18857  C4* C   A 904     163.942  89.418 -38.360  1.00 34.25      A16S
ATOM  18858  O4* C   A 904     164.114  88.091 -38.913  1.00 34.25      A16S
ATOM  18859  C1* C   A 904     163.231  87.200 -38.274  1.00 34.25      A16S
ATOM  18860  N1  C   A 904     164.019  86.116 -37.698  1.00 26.67      A16S
ATOM  18861  C6  C   A 904     165.339  86.286 -37.401  1.00 26.67      A16S
ATOM  18862  C2  C   A 904     163.390  84.893 -37.454  1.00 26.67      A16S
ATOM  18863  O2  C   A 904     162.184  84.760 -37.757  1.00 26.67      A16S
ATOM  18864  N3  C   A 904     164.101  83.887 -36.904  1.00 26.67      A16S
ATOM  18865  C4  C   A 904     165.383  84.068 -36.614  1.00 26.67      A16S
ATOM  18866  N4  C   A 904     166.032  83.061 -36.071  1.00 26.67      A16S
ATOM  18867  C5  C   A 904     166.052  85.297 -36.865  1.00 26.67      A16S
ATOM  18868  C2* C   A 904     162.433  87.987 -37.232  1.00 34.25      A16S
ATOM  18869  O2* C   A 904     161.201  88.392 -37.796  1.00 34.25      A16S
ATOM  18870  C3* C   A 904     163.336  89.181 -36.990  1.00 34.25      A16S
ATOM  18871  O3* C   A 904     162.605  90.309 -36.550  1.00 34.25      A16S
ATOM  18872  P   U   A 905     162.692  90.735 -35.009  1.00 36.16      A16S
ATOM  18873  O1P U   A 905     161.895  91.973 -34.833  1.00 50.53      A16S
ATOM  18874  O2P U   A 905     164.122  90.719 -34.580  1.00 50.53      A16S
ATOM  18875  O5* U   A 905     161.955  89.543 -34.264  1.00 36.16      A16S
ATOM  18876  C5* U   A 905     160.637  89.173 -34.632  1.00 36.16      A16S
ATOM  18877  C4* U   A 905     160.297  87.840 -34.046  1.00 36.16      A16S
ATOM  18878  O4* U   A 905     161.154  86.823 -34.610  1.00 36.16      A16S
ATOM  18879  C1* U   A 905     161.233  85.736 -33.709  1.00 36.16      A16S
ATOM  18880  N1  U   A 905     162.629  85.296 -33.585  1.00 50.53      A16S
ATOM  18881  C6  U   A 905     163.689  86.166 -33.679  1.00 50.53      A16S
ATOM  18882  C2  U   A 905     162.833  83.963 -33.346  1.00 50.53      A16S
ATOM  18883  O2  U   A 905     161.928  83.164 -33.292  1.00 50.53      A16S
ATOM  18884  N3  U   A 905     164.139  83.594 -33.177  1.00 50.53      A16S
ATOM  18885  C4  U   A 905     165.245  84.408 -33.233  1.00 50.53      A16S
ATOM  18886  O4  U   A 905     166.362  83.923 -33.025  1.00 50.53      A16S
ATOM  18887  C5  U   A 905     164.959  85.777 -33.514  1.00 50.53      A16S
ATOM  18888  C2* U   A 905     160.617  86.186 -32.382  1.00 36.16      A16S
ATOM  18889  O2* U   A 905     159.335  85.605 -32.245  1.00 36.16      A16S
ATOM  18890  C3* U   A 905     160.545  87.696 -32.561  1.00 36.16      A16S
ATOM  18891  O3* U   A 905     159.485  88.247 -31.822  1.00 36.16      A16S
ATOM  18892  P   G   A 906     159.798  89.031 -30.465  1.00 38.77      A16S
ATOM  18893  O1P G   A 906     158.476  89.171 -29.791  1.00 33.70      A16S
ATOM  18894  O2P G   A 906     160.594  90.251 -30.772  1.00 33.70      A16S
ATOM  18895  O5* G   A 906     160.701  88.007 -29.637  1.00 38.77      A16S
ATOM  18896  C5* G   A 906     160.107  86.876 -28.992  1.00 38.77      A16S
ATOM  18897  C4* G   A 906     161.158  86.038 -28.308  1.00 38.77      A16S
ATOM  18898  O4* G   A 906     162.001  85.390 -29.290  1.00 38.77      A16S
ATOM  18899  C1* G   A 906     163.318  85.272 -28.786  1.00 38.77      A16S
ATOM  18900  N9  G   A 906     164.167  86.155 -29.559  1.00 33.70      A16S
ATOM  18901  C4  G   A 906     165.493  85.981 -29.823  1.00 33.70      A16S
ATOM  18902  N3  G   A 906     166.251  84.940 -29.421  1.00 33.70      A16S
ATOM  18903  C2  G   A 906     167.504  85.068 -29.806  1.00 33.70      A16S
ATOM  18904  N2  G   A 906     168.399  84.136 -29.480  1.00 33.70      A16S
ATOM  18905  N1  G   A 906     167.972  86.124 -30.537  1.00 33.70      A16S
ATOM  18906  C6  G   A 906     167.201  87.201 -30.970  1.00 33.70      A16S
ATOM  18907  O6  G   A 906     167.714  88.110 -31.645  1.00 33.70      A16S
ATOM  18908  C5  G   A 906     165.863  87.081 -30.550  1.00 33.70      A16S
ATOM  18909  N7  G   A 906     164.786  87.932 -30.740  1.00 33.70      A16S
ATOM  18910  C8  G   A 906     163.801  87.337 -30.142  1.00 33.70      A16S
ATOM  18911  C2* G   A 906     163.307  85.777 -27.354  1.00 38.77      A16S
ATOM  18912  O2* G   A 906     163.105  84.659 -26.516  1.00 38.77      A16S
ATOM  18913  C3* G   A 906     162.138  86.754 -27.399  1.00 38.77      A16S
ATOM  18914  O3* G   A 906     161.592  86.987 -26.125  1.00 38.77      A16S
ATOM  18915  P   A   A 907     162.345  87.971 -25.113  1.00 43.09      A16S
ATOM  18916  O1P A   A 907     161.367  88.190 -24.016  1.00 36.60      A16S
ATOM  18917  O2P A   A 907     162.925  89.135 -25.837  1.00 36.60      A16S
ATOM  18918  O5* A   A 907     163.543  87.096 -24.546  1.00 43.09      A16S
ATOM  18919  C5* A   A 907     163.600  86.744 -23.162  1.00 43.09      A16S
ATOM  18920  C4* A   A 907     162.975  85.392 -22.944  1.00 43.09      A16S
ATOM  18921  O4* A   A 907     163.474  84.466 -23.938  1.00 43.09      A16S
ATOM  18922  C1* A   A 907     163.775  83.224 -23.336  1.00 43.09      A16S
ATOM  18923  N9  A   A 907     165.222  83.023 -23.412  1.00 36.60      A16S
ATOM  18924  C4  A   A 907     165.927  81.951 -22.920  1.00 36.60      A16S
ATOM  18925  N3  A   A 907     165.442  80.896 -22.248  1.00 36.60      A16S
ATOM  18926  C2  A   A 907     166.415  80.057 -21.940  1.00 36.60      A16S
ATOM  18927  N1  A   A 907     167.719  80.139 -22.210  1.00 36.60      A16S
ATOM  18928  C6  A   A 907     168.170  81.215 -22.887  1.00 36.60      A16S
ATOM  18929  N6  A   A 907     169.472  81.305 -23.159  1.00 36.60      A16S
ATOM  18930  C5  A   A 907     167.241  82.176 -23.265  1.00 36.60      A16S
ATOM  18931  N7  A   A 907     167.373  83.374 -23.941  1.00 36.60      A16S
ATOM  18932  C8  A   A 907     166.153  83.840 -23.997  1.00 36.60      A16S
ATOM  18933  C2* A   A 907     163.285  83.287 -21.898  1.00 43.09      A16S
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ATOM  18934  O2*  A   A 907     161.976  82.768 -21.855  1.00 43.09      A16S
ATOM  18935  C3*  A   A 907     163.372  84.777 -21.623  1.00 43.09      A16S
ATOM  18936  O3*  A   A 907     162.562  85.227 -20.561  1.00 43.09      A16S
ATOM  18937  P    A   A 908     163.249  85.575 -19.152  1.00 57.63      A16S
ATOM  18938  O1P  A   A 908     162.139  85.948 -18.233  1.00 43.66      A16S
ATOM  18939  O2P  A   A 908     164.400  86.516 -19.340  1.00 43.66      A16S
ATOM  18940  O5*  A   A 908     163.815  84.173 -18.669  1.00 57.63      A16S
ATOM  18941  C5*  A   A 908     162.924  83.088 -18.437  1.00 57.63      A16S
ATOM  18942  C4*  A   A 908     163.692  81.892 -17.966  1.00 57.63      A16S
ATOM  18943  O4*  A   A 908     164.520  81.386 -19.039  1.00 57.63      A16S
ATOM  18944  C1*  A   A 908     165.731  80.880 -18.512  1.00 57.63      A16S
ATOM  18945  N9   A   A 908     166.837  81.646 -19.087  1.00 43.66      A16S
ATOM  18946  C4   A   A 908     168.163  81.297 -19.074  1.00 43.66      A16S
ATOM  18947  N3   A   A 908     168.707  80.202 -18.530  1.00 43.66      A16S
ATOM  18948  C2   A   A 908     170.023  80.196 -18.721  1.00 43.66      A16S
ATOM  18949  N1   A   A 908     170.791  81.088 -19.347  1.00 43.66      A16S
ATOM  18950  C6   A   A 908     170.204  82.178 -19.876  1.00 43.66      A16S
ATOM  18951  N6   A   A 908     170.966  83.073 -20.498  1.00 43.66      A16S
ATOM  18952  C5   A   A 908     168.826  82.305 -19.740  1.00 43.66      A16S
ATOM  18953  N7   A   A 908     167.943  83.281 -20.159  1.00 43.66      A16S
ATOM  18954  C8   A   A 908     166.778  82.845 -19.748  1.00 43.66      A16S
ATOM  18955  C2*  A   A 908     165.649  81.007 -16.992  1.00 57.63      A16S
ATOM  18956  O2*  A   A 908     165.101  79.815 -16.455  1.00 57.63      A16S
ATOM  18957  C3*  A   A 908     164.669  82.155 -16.840  1.00 57.63      A16S
ATOM  18958  O3*  A   A 908     164.032  82.126 -15.585  1.00 57.63      A16S
ATOM  18959  P    A   A 909     164.687  82.918 -14.355  1.00 53.72      A16S
ATOM  18960  O1P  A   A 909     163.654  82.894 -13.289  1.00 39.21      A16S
ATOM  18961  O2P  A   A 909     165.245  84.230 -14.829  1.00 39.21      A16S
ATOM  18962  O5*  A   A 909     165.871  81.970 -13.875  1.00 53.72      A16S
ATOM  18963  C5*  A   A 909     165.582  80.664 -13.371  1.00 53.72      A16S
ATOM  18964  C4*  A   A 909     166.830  79.832 -13.338  1.00 53.72      A16S
ATOM  18965  O4*  A   A 909     167.410  79.799 -14.661  1.00 53.72      A16S
ATOM  18966  C1*  A   A 909     168.817  79.779 -14.565  1.00 53.72      A16S
ATOM  18967  N9   A   A 909     169.324  80.976 -15.221  1.00 39.21      A16S
ATOM  18968  C4   A   A 909     170.620  81.188 -15.597  1.00 39.21      A16S
ATOM  18969  N3   A   A 909     171.650  80.350 -15.441  1.00 39.21      A16S
ATOM  18970  C2   A   A 909     172.748  80.877 -15.947  1.00 39.21      A16S
ATOM  18971  N1   A   A 909     172.923  82.059 -16.540  1.00 39.21      A16S
ATOM  18972  C6   A   A 909     171.862  82.880 -16.671  1.00 39.21      A16S
ATOM  18973  N6   A   A 909     172.035  84.071 -17.256  1.00 39.21      A16S
ATOM  18974  C5   A   A 909     170.642  82.435 -16.182  1.00 39.21      A16S
ATOM  18975  N7   A   A 909     169.382  83.007 -16.170  1.00 39.21      A16S
ATOM  18976  C8   A   A 909     168.636  82.103 -15.590  1.00 39.21      A16S
ATOM  18977  C2*  A   A 909     169.181  79.744 -13.085  1.00 53.72      A16S
ATOM  18978  O2*  A   A 909     169.374  78.401 -12.693  1.00 53.72      A16S
ATOM  18979  C3*  A   A 909     167.941  80.356 -12.455  1.00 53.72      A16S
ATOM  18980  O3*  A   A 909     167.763  79.927 -11.123  1.00 53.72      A16S
ATOM  18981  P    C   A 910     168.047  80.951  -9.923  1.00 54.44      A16S
ATOM  18982  O1P  C   A 910     167.951  80.133  -8.678  1.00 31.51      A16S
ATOM  18983  O2P  C   A 910     167.180  82.151 -10.090  1.00 31.51      A16S
ATOM  18984  O5*  C   A 910     169.548  81.428 -10.158  1.00 54.44      A16S
ATOM  18985  C5*  C   A 910     170.651  80.522 -10.016  1.00 54.44      A16S
ATOM  18986  C4*  C   A 910     171.905  81.158 -10.558  1.00 54.44      A16S
ATOM  18987  O4*  C   A 910     171.739  81.391 -11.978  1.00 54.44      A16S
ATOM  18988  C1*  C   A 910     172.348  82.616 -12.343  1.00 54.44      A16S
ATOM  18989  N1   C   A 910     171.296  83.518 -12.835  1.00 31.51      A16S
ATOM  18990  C6   C   A 910     169.984  83.242 -12.599  1.00 31.51      A16S
ATOM  18991  C2   C   A 910     171.658  84.681 -13.527  1.00 31.51      A16S
ATOM  18992  O2   C   A 910     172.845  84.884 -13.767  1.00 31.51      A16S
ATOM  18993  N3   C   A 910     170.702  85.549 -13.915  1.00 31.51      A16S
ATOM  18994  C4   C   A 910     169.423  85.288 -13.642  1.00 31.51      A16S
ATOM  18995  N4   C   A 910     168.502  86.189 -13.990  1.00 31.51      A16S
ATOM  18996  C5   C   A 910     169.024  84.091 -12.982  1.00 31.51      A16S
ATOM  18997  C2*  C   A 910     173.023  83.184 -11.095  1.00 54.44      A16S
ATOM  18998  O2*  C   A 910     174.391  82.834 -11.071  1.00 54.44      A16S
ATOM  18999  C3*  C   A 910     172.213  82.530  -9.990  1.00 54.44      A16S
ATOM  19000  O3*  C   A 910     172.896  82.474  -8.749  1.00 54.44      A16S
ATOM  19001  P    U   A 911     172.485  83.503  -7.587  1.00 42.34      A16S
ATOM  19002  O1P  U   A 911     173.199  83.079  -6.351  1.00 53.82      A16S
ATOM  19003  O2P  U   A 911     170.998  83.617  -7.567  1.00 53.82      A16S
ATOM  19004  O5*  U   A 911     173.085  84.880  -8.119  1.00 42.34      A16S
ATOM  19005  C5*  U   A 911     174.466  84.949  -8.503  1.00 42.34      A16S
ATOM  19006  C4*  U   A 911     174.755  86.201  -9.290  1.00 42.34      A16S
ATOM  19007  O4*  U   A 911     174.023  86.187 -10.531  1.00 42.34      A16S
ATOM  19008  C1*  U   A 911     173.770  87.514 -10.941  1.00 42.34      A16S
ATOM  19009  N1   U   A 911     172.328  87.693 -11.137  1.00 53.82      A16S
ATOM  19010  C6   U   A 911     171.412  86.836 -10.589  1.00 53.82      A16S
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ATOM  19011  C2  U   A 911     171.929  88.780 -11.882  1.00 53.82      A16S
ATOM  19012  O2  U   A 911     172.712  89.540 -12.409  1.00 53.82      A16S
ATOM  19013  N3  U   A 911     170.577  88.946 -11.988  1.00 53.82      A16S
ATOM  19014  C4  U   A 911     169.601  88.144 -11.443  1.00 53.82      A16S
ATOM  19015  O4  U   A 911     168.414  88.463 -11.569  1.00 53.82      A16S
ATOM  19016  C5  U   A 911     170.097  87.018 -10.713  1.00 53.82      A16S
ATOM  19017  C2* U   A 911     174.297  88.447  -9.855  1.00 42.34      A16S
ATOM  19018  O2* U   A 911     175.551  88.960 -10.238  1.00 42.34      A16S
ATOM  19019  C3* U   A 911     174.372  87.518  -8.658  1.00 42.34      A16S
ATOM  19020  O3* U   A 911     175.333  87.961  -7.728  1.00 42.34      A16S
ATOM  19021  P   C   A 912     174.892  88.982  -6.570  1.00 43.47      A16S
ATOM  19022  O1P C   A 912     175.932  88.934  -5.515  1.00 32.67      A16S
ATOM  19023  O2P C   A 912     173.461  88.704  -6.208  1.00 32.67      A16S
ATOM  19024  O5* C   A 912     174.992  90.398  -7.277  1.00 43.47      A16S
ATOM  19025  C5* C   A 912     176.253  90.876  -7.731  1.00 43.47      A16S
ATOM  19026  C4* C   A 912     176.092  92.228  -8.351  1.00 43.47      A16S
ATOM  19027  O4* C   A 912     175.315  92.101  -9.562  1.00 43.47      A16S
ATOM  19028  C1* C   A 912     174.467  93.226  -9.701  1.00 43.47      A16S
ATOM  19029  N1  C   A 912     173.073  92.761  -9.742  1.00 32.67      A16S
ATOM  19030  C6  C   A 912     172.713  91.573  -9.172  1.00 32.67      A16S
ATOM  19031  C2  C   A 912     172.122  93.548 -10.381  1.00 32.67      A16S
ATOM  19032  O2  C   A 912     172.479  94.614 -10.887  1.00 32.67      A16S
ATOM  19033  N3  C   A 912     170.840  93.126 -10.437  1.00 32.67      A16S
ATOM  19034  C4  C   A 912     170.504  91.959  -9.892  1.00 32.67      A16S
ATOM  19035  N4  C   A 912     169.246  91.563  -9.988  1.00 32.67      A16S
ATOM  19036  C5  C   A 912     171.451  91.138  -9.228  1.00 32.67      A16S
ATOM  19037  C2* C   A 912     174.765  94.179  -8.548  1.00 43.47      A16S
ATOM  19038  O2* C   A 912     175.730  95.096  -9.004  1.00 43.47      A16S
ATOM  19039  C3* C   A 912     175.336  93.234  -7.504  1.00 43.47      A16S
ATOM  19040  O3* C   A 912     176.225  93.886  -6.615  1.00 43.47      A16S
ATOM  19041  P   A   A 913     175.649  94.661  -5.331  1.00 46.89      A16S
ATOM  19042  O1P A   A 913     176.819  95.067  -4.515  1.00 28.33      A16S
ATOM  19043  O2P A   A 913     174.566  93.835  -4.710  1.00 28.33      A16S
ATOM  19044  O5* A   A 913     175.023  95.984  -5.950  1.00 46.89      A16S
ATOM  19045  C5* A   A 913     175.821  96.832  -6.777  1.00 46.89      A16S
ATOM  19046  C4* A   A 913     175.273  98.230  -6.773  1.00 46.89      A16S
ATOM  19047  O4* A   A 913     174.104  98.292  -7.611  1.00 46.89      A16S
ATOM  19048  C1* A   A 913     172.949  98.479  -6.825  1.00 46.89      A16S
ATOM  19049  N9  A   A 913     172.041  97.364  -7.115  1.00 28.33      A16S
ATOM  19050  C4  A   A 913     170.929  97.397  -7.921  1.00 28.33      A16S
ATOM  19051  N3  A   A 913     170.456  98.443  -8.621  1.00 28.33      A16S
ATOM  19052  C2  A   A 913     169.348  98.105  -9.261  1.00 28.33      A16S
ATOM  19053  N1  A   A 913     168.707  96.931  -9.279  1.00 28.33      A16S
ATOM  19054  C6  A   A 913     169.220  95.907  -8.567  1.00 28.33      A16S
ATOM  19055  N6  A   A 913     168.594  94.738  -8.576  1.00 28.33      A16S
ATOM  19056  C5  A   A 913     170.384  96.130  -7.858  1.00 28.33      A16S
ATOM  19057  N7  A   A 913     171.147  95.301  -7.059  1.00 28.33      A16S
ATOM  19058  C8  A   A 913     172.113  96.076  -6.639  1.00 28.33      A16S
ATOM  19059  C2* A   A 913     173.355  98.504  -5.352  1.00 46.89      A16S
ATOM  19060  O2* A   A 913     172.599  99.436  -4.613  1.00 46.89      A16S
ATOM  19061  C3* A   A 913     174.866  98.736  -5.402  1.00 46.89      A16S
ATOM  19062  O3* A   A 913     175.499  99.993  -5.058  1.00 46.89      A16S
ATOM  19063  P   A   A 914     174.878 101.395  -5.512  1.00 44.55      A16S
ATOM  19064  O1P A   A 914     175.229 102.368  -4.426  1.00 69.57      A16S
ATOM  19065  O2P A   A 914     173.468 101.252  -5.960  1.00 69.57      A16S
ATOM  19066  O5* A   A 914     175.737 101.795  -6.781  1.00 31.07      A16S
ATOM  19067  C5* A   A 914     175.110 102.270  -7.984  1.00 31.07      A16S
ATOM  19068  C4* A   A 914     174.975 101.129  -8.951  1.00 31.07      A16S
ATOM  19069  O4* A   A 914     173.644 100.560  -8.842  1.00 31.07      A16S
ATOM  19070  C1* A   A 914     173.232 100.088 -10.107  1.00 31.07      A16S
ATOM  19071  N9  A   A 914     171.973 100.744 -10.472  1.00 30.23      A16S
ATOM  19072  C4  A   A 914     171.170 100.392 -11.532  1.00 30.23      A16S
ATOM  19073  N3  A   A 914     171.374  99.401 -12.417  1.00 30.23      A16S
ATOM  19074  C2  A   A 914     170.392  99.358 -13.306  1.00 30.23      A16S
ATOM  19075  N1  A   A 914     169.309 100.130 -13.409  1.00 30.23      A16S
ATOM  19076  C6  A   A 914     169.126 101.112 -12.510  1.00 30.23      A16S
ATOM  19077  N6  A   A 914     168.038 101.867 -12.622  1.00 30.23      A16S
ATOM  19078  C5  A   A 914     170.102 101.271 -11.510  1.00 30.23      A16S
ATOM  19079  N7  A   A 914     170.229 102.164 -10.457  1.00 30.23      A16S
ATOM  19080  C8  A   A 914     171.349 101.807  -9.871  1.00 30.23      A16S
ATOM  19081  C2* A   A 914     174.375 100.352 -11.100  1.00 31.07      A16S
ATOM  19082  O2* A   A 914     175.215  99.216 -11.218  1.00 31.07      A16S
ATOM  19083  C3* A   A 914     175.132 101.474 -10.418  1.00 31.07      A16S
ATOM  19084  O3* A   A 914     176.491 101.424 -10.795  1.00 31.07      A16S
ATOM  19085  P   A   A 915     177.010 102.335 -12.013  1.00 37.58      A16S
ATOM  19086  O1P A   A 915     178.430 101.948 -12.262  1.00 53.81      A16S
ATOM  19087  O2P A   A 915     176.672 103.771 -11.773  1.00 53.81      A16S
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ATOM  19088  O5*  A   A  915     176.126 101.847 -13.242  1.00 37.58      A16S
ATOM  19089  C5*  A   A  915     176.443 100.648 -13.935  1.00 37.58      A16S
ATOM  19090  C4*  A   A  915     175.525 100.475 -15.110  1.00 37.58      A16S
ATOM  19091  O4*  A   A  915     174.182 100.186 -14.653  1.00 37.58      A16S
ATOM  19092  C1*  A   A  915     173.249 100.685 -15.590  1.00 37.58      A16S
ATOM  19093  N9   A   A  915     172.375 101.661 -14.942  1.00 53.81      A16S
ATOM  19094  C4   A   A  915     171.200 102.120 -15.477  1.00 53.81      A16S
ATOM  19095  N3   A   A  915     170.636 101.736 -16.627  1.00 53.81      A16S
ATOM  19096  C2   A   A  915     169.527 102.411 -16.848  1.00 53.81      A16S
ATOM  19097  N1   A   A  915     168.956 103.354 -16.108  1.00 53.81      A16S
ATOM  19098  C6   A   A  915     169.544 103.709 -14.951  1.00 53.81      A16S
ATOM  19099  N6   A   A  915     168.962 104.644 -14.205  1.00 53.81      A16S
ATOM  19100  C5   A   A  915     170.732 103.068 -14.605  1.00 53.81      A16S
ATOM  19101  N7   A   A  915     171.577 103.193 -13.516  1.00 53.81      A16S
ATOM  19102  C8   A   A  915     172.530 102.330 -13.761  1.00 53.81      A16S
ATOM  19103  C2*  A   A  915     174.043 101.356 -16.707  1.00 37.58      A16S
ATOM  19104  O2*  A   A  915     174.225 100.436 -17.759  1.00 37.58      A16S
ATOM  19105  C3*  A   A  915     175.345 101.676 -16.007  1.00 37.58      A16S
ATOM  19106  O3*  A   A  915     176.380 101.829 -16.935  1.00 37.58      A16S
ATOM  19107  P    G   A  916     176.936 103.300 -17.239  1.00 35.60      A16S
ATOM  19108  O1P  G   A  916     177.793 103.220 -18.445  1.00 44.35      A16S
ATOM  19109  O2P  G   A  916     177.499 103.827 -15.954  1.00 44.35      A16S
ATOM  19110  O5*  G   A  916     175.648 104.166 -17.607  1.00 35.60      A16S
ATOM  19111  C5*  G   A  916     174.862 103.810 -18.729  1.00 35.60      A16S
ATOM  19112  C4*  G   A  916     173.633 104.679 -18.841  1.00 35.60      A16S
ATOM  19113  O4*  G   A  916     172.726 104.512 -17.717  1.00 35.60      A16S
ATOM  19114  C1*  G   A  916     171.884 105.645 -17.632  1.00 35.60      A16S
ATOM  19115  N9   G   A  916     171.973 106.223 -16.289  1.00 44.35      A16S
ATOM  19116  C4   G   A  916     171.276 107.319 -15.839  1.00 44.35      A16S
ATOM  19117  N3   G   A  916     170.377 108.016 -16.543  1.00 44.35      A16S
ATOM  19118  C2   G   A  916     169.881 109.017 -15.855  1.00 44.35      A16S
ATOM  19119  N2   G   A  916     168.946 109.794 -16.407  1.00 44.35      A16S
ATOM  19120  N1   G   A  916     170.253 109.330 -14.584  1.00 44.35      A16S
ATOM  19121  C6   G   A  916     171.187 108.641 -13.839  1.00 44.35      A16S
ATOM  19122  O6   G   A  916     171.472 109.038 -12.710  1.00 44.35      A16S
ATOM  19123  C5   G   A  916     171.711 107.533 -14.556  1.00 44.35      A16S
ATOM  19124  N7   G   A  916     172.645 106.574 -14.186  1.00 44.35      A16S
ATOM  19125  C8   G   A  916     172.766 105.817 -15.242  1.00 44.35      A16S
ATOM  19126  C2*  G   A  916     172.332 106.616 -18.730  1.00 35.60      A16S
ATOM  19127  O2*  G   A  916     171.536 106.377 -19.876  1.00 35.60      A16S
ATOM  19128  C3*  G   A  916     173.767 106.175 -18.992  1.00 35.60      A16S
ATOM  19129  O3*  G   A  916     174.129 106.507 -20.321  1.00 35.60      A16S
ATOM  19130  P    G   A  917     174.672 107.980 -20.655  1.00 25.87      A16S
ATOM  19131  O1P  G   A  917     175.223 107.974 -22.037  1.00 35.70      A16S
ATOM  19132  O2P  G   A  917     175.520 108.438 -19.534  1.00 35.70      A16S
ATOM  19133  O5*  G   A  917     173.383 108.912 -20.665  1.00 25.87      A16S
ATOM  19134  C5*  G   A  917     172.439 108.878 -21.753  1.00 25.87      A16S
ATOM  19135  C4*  G   A  917     171.444 109.993 -21.593  1.00 25.87      A16S
ATOM  19136  O4*  G   A  917     170.788 109.835 -20.312  1.00 25.87      A16S
ATOM  19137  C1*  G   A  917     170.564 111.094 -19.729  1.00 25.87      A16S
ATOM  19138  N9   G   A  917     171.200 111.097 -18.421  1.00 35.70      A16S
ATOM  19139  C4   G   A  917     170.963 111.981 -17.406  1.00 35.70      A16S
ATOM  19140  N3   G   A  917     170.101 113.010 -17.445  1.00 35.70      A16S
ATOM  19141  C2   G   A  917     170.066 113.657 -16.305  1.00 35.70      A16S
ATOM  19142  N2   G   A  917     169.235 114.689 -16.162  1.00 35.70      A16S
ATOM  19143  N1   G   A  917     170.836 113.331 -15.222  1.00 35.70      A16S
ATOM  19144  C6   G   A  917     171.731 112.274 -15.175  1.00 35.70      A16S
ATOM  19145  O6   G   A  917     172.371 112.059 -14.159  1.00 35.70      A16S
ATOM  19146  C5   G   A  917     171.763 111.571 -16.370  1.00 35.70      A16S
ATOM  19147  N7   G   A  917     172.495 110.454 -16.726  1.00 35.70      A16S
ATOM  19148  C8   G   A  917     172.134 110.212 -17.953  1.00 35.70      A16S
ATOM  19149  C2*  G   A  917     171.075 112.162 -20.697  1.00 25.87      A16S
ATOM  19150  O2*  G   A  917     170.012 112.626 -21.506  1.00 25.87      A16S
ATOM  19151  C3*  G   A  917     172.063 111.374 -21.533  1.00 25.87      A16S
ATOM  19152  O3*  G   A  917     172.185 111.934 -22.823  1.00 25.87      A16S
ATOM  19153  P    A   A  918     173.398 112.920 -23.121  1.00 27.72      A16S
ATOM  19154  O1P  A   A  918     173.447 113.228 -24.564  1.00 23.84      A16S
ATOM  19155  O2P  A   A  918     174.570 112.296 -22.459  1.00 23.84      A16S
ATOM  19156  O5*  A   A  918     173.024 114.239 -22.312  1.00 27.72      A16S
ATOM  19157  C5*  A   A  918     172.026 115.143 -22.796  1.00 27.72      A16S
ATOM  19158  C4*  A   A  918     171.762 116.228 -21.781  1.00 27.72      A16S
ATOM  19159  O4*  A   A  918     171.327 115.630 -20.536  1.00 27.72      A16S
ATOM  19160  C1*  A   A  918     171.717 116.440 -19.445  1.00 27.72      A16S
ATOM  19161  N9   A   A  918     172.515 115.625 -18.541  1.00 23.84      A16S
ATOM  19162  C4   A   A  918     172.696 115.773 -17.183  1.00 23.84      A16S
ATOM  19163  N3   A   A  918     172.164 116.692 -16.373  1.00 23.84      A16S
ATOM  19164  C2   A   A  918     172.592 116.527 -15.114  1.00 23.84      A16S
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ATOM  19165  N1  A   A 918     173.413 115.626 -14.615  1.00 23.84      A16S
ATOM  19166  C6  A   A 918     173.914 114.706 -15.441  1.00 23.84      A16S
ATOM  19167  N6  A   A 918     174.714 113.779 -14.931  1.00 23.84      A16S
ATOM  19168  C5  A   A 918     173.555 114.771 -16.806  1.00 23.84      A16S
ATOM  19169  N7  A   A 918     173.899 113.993 -17.901  1.00 23.84      A16S
ATOM  19170  C8  A   A 918     173.251 114.540 -18.897  1.00 23.84      A16S
ATOM  19171  C2* A   A 918     172.457 117.640 -20.020  1.00 27.72      A16S
ATOM  19172  O2* A   A 918     171.487 118.651 -20.195  1.00 27.72      A16S
ATOM  19173  C3* A   A 918     172.920 117.116 -21.375  1.00 27.72      A16S
ATOM  19174  O3* A   A 918     173.063 118.177 -22.311  1.00 27.72      A16S
ATOM  19175  P   A   A 919     174.470 118.949 -22.438  1.00 34.66      A16S
ATOM  19176  O1P A   A 919     174.311 119.952 -23.520  1.00 37.58      A16S
ATOM  19177  O2P A   A 919     175.562 117.962 -22.503  1.00 37.58      A16S
ATOM  19178  O5* A   A 919     174.640 119.708 -21.049  1.00 34.66      A16S
ATOM  19179  C5* A   A 919     173.938 120.937 -20.768  1.00 34.66      A16S
ATOM  19180  C4* A   A 919     173.892 121.167 -19.279  1.00 34.66      A16S
ATOM  19181  O4* A   A 919     173.526 119.910 -18.658  1.00 34.66      A16S
ATOM  19182  C1* A   A 919     174.112 119.811 -17.385  1.00 34.66      A16S
ATOM  19183  N9  A   A 919     174.912 118.601 -17.334  1.00 37.58      A16S
ATOM  19184  C4  A   A 919     175.360 118.057 -16.167  1.00 37.58      A16S
ATOM  19185  N3  A   A 919     175.111 118.507 -14.936  1.00 37.58      A16S
ATOM  19186  C2  A   A 919     175.717 117.753 -14.045  1.00 37.58      A16S
ATOM  19187  N1  A   A 919     176.491 116.690 -14.231  1.00 37.58      A16S
ATOM  19188  C6  A   A 919     176.723 116.269 -15.484  1.00 37.58      A16S
ATOM  19189  N6  A   A 919     177.514 115.216 -15.654  1.00 37.58      A16S
ATOM  19190  C5  A   A 919     176.122 116.971 -16.520  1.00 37.58      A16S
ATOM  19191  N7  A   A 919     176.133 116.807 -17.893  1.00 37.58      A16S
ATOM  19192  C8  A   A 919     175.395 117.801 -18.332  1.00 37.58      A16S
ATOM  19193  C2* A   A 919     174.967 121.049 -17.159  1.00 34.66      A16S
ATOM  19194  O2* A   A 919     174.245 121.957 -16.357  1.00 34.66      A16S
ATOM  19195  C3* A   A 919     175.189 121.540 -18.583  1.00 34.66      A16S
ATOM  19196  O3* A   A 919     175.409 122.945 -18.594  1.00 34.66      A16S
ATOM  19197  P   U   A 920     176.889 123.518 -18.329  1.00 30.21      A16S
ATOM  19198  O1P U   A 920     176.858 124.981 -18.640  1.00 41.54      A16S
ATOM  19199  O2P U   A 920     177.822 122.630 -19.064  1.00 41.54      A16S
ATOM  19200  O5* U   A 920     177.147 123.268 -16.779  1.00 30.21      A16S
ATOM  19201  C5* U   A 920     176.354 123.935 -15.809  1.00 30.21      A16S
ATOM  19202  C4* U   A 920     176.974 123.800 -14.451  1.00 30.21      A16S
ATOM  19203  O4* U   A 920     176.788 122.465 -13.940  1.00 30.21      A16S
ATOM  19204  C1* U   A 920     177.901 122.097 -13.156  1.00 30.21      A16S
ATOM  19205  N1  U   A 920     178.501 120.883 -13.725  1.00 41.54      A16S
ATOM  19206  C6  U   A 920     178.356 120.550 -15.051  1.00 41.54      A16S
ATOM  19207  C2  U   A 920     179.211 120.067 -12.859  1.00 41.54      A16S
ATOM  19208  O2  U   A 920     179.408 120.347 -11.686  1.00 41.54      A16S
ATOM  19209  N3  U   A 920     179.688 118.915 -13.412  1.00 41.54      A16S
ATOM  19210  C4  U   A 920     179.554 118.506 -14.709  1.00 41.54      A16S
ATOM  19211  O4  U   A 920     179.996 117.401 -15.031  1.00 41.54      A16S
ATOM  19212  C5  U   A 920     178.844 119.421 -15.559  1.00 41.54      A16S
ATOM  19213  C2* U   A 920     178.863 123.275 -13.144  1.00 30.21      A16S
ATOM  19214  O2* U   A 920     178.604 124.064 -12.004  1.00 30.21      A16S
ATOM  19215  C3* U   A 920     178.466 123.989 -14.417  1.00 30.21      A16S
ATOM  19216  O3* U   A 920     178.826 125.341 -14.391  1.00 30.21      A16S
ATOM  19217  P   U   A 921     180.287 125.753 -14.891  1.00 27.83      A16S
ATOM  19218  O1P U   A 921     180.261 127.241 -15.044  1.00 37.91      A16S
ATOM  19219  O2P U   A 921     180.591 124.894 -16.074  1.00 37.91      A16S
ATOM  19220  O5* U   A 921     181.232 125.299 -13.685  1.00 27.83      A16S
ATOM  19221  C5* U   A 921     181.143 125.961 -12.420  1.00 27.83      A16S
ATOM  19222  C4* U   A 921     181.993 125.262 -11.392  1.00 27.83      A16S
ATOM  19223  O4* U   A 921     181.520 123.907 -11.205  1.00 27.83      A16S
ATOM  19224  C1* U   A 921     182.611 123.040 -10.949  1.00 27.83      A16S
ATOM  19225  N1  U   A 921     182.638 122.023 -12.009  1.00 37.91      A16S
ATOM  19226  C6  U   A 921     182.175 122.305 -13.271  1.00 37.91      A16S
ATOM  19227  C2  U   A 921     183.137 120.773 -11.697  1.00 37.91      A16S
ATOM  19228  O2  U   A 921     183.574 120.487 -10.603  1.00 37.91      A16S
ATOM  19229  N3  U   A 921     183.109 119.870 -12.718  1.00 37.91      A16S
ATOM  19230  C4  U   A 921     182.652 120.083 -13.992  1.00 37.91      A16S
ATOM  19231  O4  U   A 921     182.692 119.164 -14.805  1.00 37.91      A16S
ATOM  19232  C5  U   A 921     182.165 121.403 -14.243  1.00 37.91      A16S
ATOM  19233  C2* U   A 921     183.872 123.893 -10.912  1.00 27.83      A16S
ATOM  19234  O2* U   A 921     184.181 124.189  -9.570  1.00 27.83      A16S
ATOM  19235  C3* U   A 921     183.450 125.102 -11.743  1.00 27.83      A16S
ATOM  19236  O3* U   A 921     184.188 126.271 -11.452  1.00 27.83      A16S
ATOM  19237  P   G   A 922     185.674 126.416 -12.033  1.00 43.94      A16S
ATOM  19238  O1P G   A 922     186.262 127.637 -11.425  1.00 35.99      A16S
ATOM  19239  O2P G   A 922     185.632 126.283 -13.529  1.00 35.99      A16S
ATOM  19240  O5* G   A 922     186.399 125.146 -11.403  1.00 43.94      A16S
ATOM  19241  C5* G   A 922     187.541 124.566 -12.014  1.00 43.94      A16S
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ATOM  19242  C4* G   A 922     187.916 123.323 -11.277  1.00 43.94      A16S
ATOM  19243  O4* G   A 922     186.850 122.362 -11.416  1.00 43.94      A16S
ATOM  19244  C1* G   A 922     187.386 121.050 -11.510  1.00 43.94      A16S
ATOM  19245  N9  G   A 922     186.963 120.483 -12.793  1.00 35.99      A16S
ATOM  19246  C4  G   A 922     187.110 119.187 -13.222  1.00 35.99      A16S
ATOM  19247  N3  G   A 922     187.685 118.188 -12.538  1.00 35.99      A16S
ATOM  19248  C2  G   A 922     187.659 117.055 -13.213  1.00 35.99      A16S
ATOM  19249  N2  G   A 922     188.165 115.944 -12.677  1.00 35.99      A16S
ATOM  19250  N1  G   A 922     187.125 116.918 -14.460  1.00 35.99      A16S
ATOM  19251  C6  G   A 922     186.517 117.932 -15.178  1.00 35.99      A16S
ATOM  19252  O6  G   A 922     186.034 117.696 -16.287  1.00 35.99      A16S
ATOM  19253  C5  G   A 922     186.537 119.149 -14.473  1.00 35.99      A16S
ATOM  19254  N7  G   A 922     186.046 120.395 -14.832  1.00 35.99      A16S
ATOM  19255  C8  G   A 922     186.322 121.155 -13.810  1.00 35.99      A16S
ATOM  19256  C2* G   A 922     188.900 121.175 -11.335  1.00 43.94      A16S
ATOM  19257  O2* G   A 922     189.194 121.017  -9.964  1.00 43.94      A16S
ATOM  19258  C3* G   A 922     189.143 122.607 -11.789  1.00 43.94      A16S
ATOM  19259  O3* G   A 922     190.280 123.174 -11.187  1.00 43.94      A16S
ATOM  19260  P   A   A 923     191.559 123.536 -12.083  1.00 50.17      A16S
ATOM  19261  O1P A   A 923     192.488 124.179 -11.137  1.00 35.77      A16S
ATOM  19262  O2P A   A 923     191.180 124.252 -13.327  1.00 35.77      A16S
ATOM  19263  O5* A   A 923     192.161 122.108 -12.425  1.00 50.17      A16S
ATOM  19264  C5* A   A 923     192.646 121.267 -11.371  1.00 50.17      A16S
ATOM  19265  C4* A   A 923     192.676 119.835 -11.825  1.00 50.17      A16S
ATOM  19266  O4* A   A 923     191.322 119.379 -12.052  1.00 50.17      A16S
ATOM  19267  C1* A   A 923     191.295 118.482 -13.143  1.00 50.17      A16S
ATOM  19268  N9  A   A 923     190.534 119.107 -14.223  1.00 35.77      A16S
ATOM  19269  C4  A   A 923     189.910 118.465 -15.266  1.00 35.77      A16S
ATOM  19270  N3  A   A 923     189.828 117.144 -15.479  1.00 35.77      A16S
ATOM  19271  C2  A   A 923     189.167 116.895 -16.594  1.00 35.77      A16S
ATOM  19272  N1  A   A 923     188.625 117.747 -17.458  1.00 35.77      A16S
ATOM  19273  C6  A   A 923     188.730 119.063 -17.220  1.00 35.77      A16S
ATOM  19274  N6  A   A 923     188.199 119.906 -18.093  1.00 35.77      A16S
ATOM  19275  C5  A   A 923     189.395 119.460 -16.066  1.00 35.77      A16S
ATOM  19276  N7  A   A 923     189.655 120.709 -15.523  1.00 35.77      A16S
ATOM  19277  C8  A   A 923     190.326 120.444 -14.431  1.00 35.77      A16S
ATOM  19278  C2* A   A 923     192.740 118.258 -13.575  1.00 50.17      A16S
ATOM  19279  O2* A   A 923     193.255 117.144 -12.870  1.00 50.17      A16S
ATOM  19280  C3* A   A 923     193.390 119.563 -13.139  1.00 50.17      A16S
ATOM  19281  O3* A   A 923     194.801 119.448 -12.972  1.00 50.17      A16S
ATOM  19282  P   C   A 924     195.796 120.024 -14.105  1.00 50.50      A16S
ATOM  19283  O1P C   A 924     197.140 119.812 -13.506  1.00 41.55      A16S
ATOM  19284  O2P C   A 924     195.409 121.381 -14.576  1.00 41.55      A16S
ATOM  19285  O5* C   A 924     195.610 119.012 -15.322  1.00 50.50      A16S
ATOM  19286  C5* C   A 924     195.911 117.617 -15.137  1.00 50.50      A16S
ATOM  19287  C4* C   A 924     195.377 116.790 -16.276  1.00 50.50      A16S
ATOM  19288  O4* C   A 924     193.931 116.835 -16.284  1.00 50.50      A16S
ATOM  19289  C1* C   A 924     193.468 116.731 -17.614  1.00 50.50      A16S
ATOM  19290  N1  C   A 924     192.743 117.960 -17.954  1.00 41.55      A16S
ATOM  19291  C6  C   A 924     192.964 119.113 -17.269  1.00 41.55      A16S
ATOM  19292  C2  C   A 924     191.841 117.937 -19.011  1.00 41.55      A16S
ATOM  19293  O2  C   A 924     191.629 116.862 -19.592  1.00 41.55      A16S
ATOM  19294  N3  C   A 924     191.220 119.081 -19.378  1.00 41.55      A16S
ATOM  19295  C4  C   A 924     191.476 120.206 -18.726  1.00 41.55      A16S
ATOM  19296  N4  C   A 924     190.895 121.317 -19.144  1.00 41.55      A16S
ATOM  19297  C5  C   A 924     192.357 120.247 -17.621  1.00 41.55      A16S
ATOM  19298  C2* C   A 924     194.689 116.538 -18.513  1.00 50.50      A16S
ATOM  19299  O2* C   A 924     194.877 115.145 -18.668  1.00 50.50      A16S
ATOM  19300  C3* C   A 924     195.791 117.185 -17.683  1.00 50.50      A16S
ATOM  19301  O3* C   A 924     197.077 116.651 -17.977  1.00 50.50      A16S
ATOM  19302  P   G   A 925     198.031 117.358 -19.074  1.00 48.51      A16S
ATOM  19303  O1P G   A 925     199.290 116.592 -18.883  1.00 44.43      A16S
ATOM  19304  O2P G   A 925     198.056 118.838 -18.991  1.00 44.43      A16S
ATOM  19305  O5* G   A 925     197.390 116.976 -20.487  1.00 48.51      A16S
ATOM  19306  C5* G   A 925     197.536 115.638 -21.020  1.00 48.51      A16S
ATOM  19307  C4* G   A 925     196.788 115.494 -22.318  1.00 48.51      A16S
ATOM  19308  O4* G   A 925     195.374 115.680 -22.077  1.00 48.51      A16S
ATOM  19309  C1* G   A 925     194.773 116.296 -23.203  1.00 48.51      A16S
ATOM  19310  N9  G   A 925     194.090 117.513 -22.758  1.00 44.43      A16S
ATOM  19311  C4  G   A 925     193.039 118.159 -23.378  1.00 44.43      A16S
ATOM  19312  N3  G   A 925     192.422 117.776 -24.514  1.00 44.43      A16S
ATOM  19313  C2  G   A 925     191.436 118.604 -24.848  1.00 44.43      A16S
ATOM  19314  N2  G   A 925     190.691 118.373 -25.940  1.00 44.43      A16S
ATOM  19315  N1  G   A 925     191.100 119.718 -24.137  1.00 44.43      A16S
ATOM  19316  C6  G   A 925     191.717 120.133 -22.972  1.00 44.43      A16S
ATOM  19317  O6  G   A 925     191.325 121.159 -22.408  1.00 44.43      A16S
ATOM  19318  C5  G   A 925     192.768 119.254 -22.591  1.00 44.43      A16S
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ATOM  19319  N7  G   A 925     193.621 119.298 -21.497  1.00 44.43      A16S
ATOM  19320  C8  G   A 925     194.380 118.246 -21.635  1.00 44.43      A16S
ATOM  19321  C2* G   A 925     195.874 116.520 -24.254  1.00 48.51      A16S
ATOM  19322  O2* G   A 925     195.840 115.475 -25.207  1.00 48.51      A16S
ATOM  19323  C3* G   A 925     197.147 116.482 -23.413  1.00 48.51      A16S
ATOM  19324  O3* G   A 925     198.232 115.981 -24.188  1.00 48.51      A16S
ATOM  19325  P   G   A 926     199.584 116.847 -24.357  1.00 56.38      A16S
ATOM  19326  O1P G   A 926     200.481 116.637 -23.186  1.00 41.73      A16S
ATOM  19327  O2P G   A 926     199.223 118.222 -24.765  1.00 41.73      A16S
ATOM  19328  O5* G   A 926     200.334 116.119 -25.554  1.00 56.38      A16S
ATOM  19329  C5* G   A 926     200.266 116.606 -26.899  1.00 56.38      A16S
ATOM  19330  C4* G   A 926     200.414 115.453 -27.853  1.00 56.38      A16S
ATOM  19331  O4* G   A 926     201.305 114.476 -27.253  1.00 56.38      A16S
ATOM  19332  C1* G   A 926     200.926 113.172 -27.651  1.00 56.38      A16S
ATOM  19333  N9  G   A 926     200.707 112.354 -26.465  1.00 41.73      A16S
ATOM  19334  C4  G   A 926     200.985 111.014 -26.342  1.00 41.73      A16S
ATOM  19335  N3  G   A 926     201.481 110.214 -27.306  1.00 41.73      A16S
ATOM  19336  C2  G   A 926     201.654 108.974 -26.878  1.00 41.73      A16S
ATOM  19337  N2  G   A 926     202.101 108.031 -27.710  1.00 41.73      A16S
ATOM  19338  N1  G   A 926     201.387 108.556 -25.608  1.00 41.73      A16S
ATOM  19339  C6  G   A 926     200.866 109.357 -24.600  1.00 41.73      A16S
ATOM  19340  O6  G   A 926     200.636 108.868 -23.481  1.00 41.73      A16S
ATOM  19341  C5  G   A 926     200.659 110.691 -25.045  1.00 41.73      A16S
ATOM  19342  N7  G   A 926     200.161 111.798 -24.370  1.00 41.73      A16S
ATOM  19343  C8  G   A 926     200.206 112.760 -25.251  1.00 41.73      A16S
ATOM  19344  C2* G   A 926     199.694 113.297 -28.537  1.00 56.38      A16S
ATOM  19345  O2* G   A 926     200.116 113.288 -29.887  1.00 56.38      A16S
ATOM  19346  C3* G   A 926     199.154 114.656 -28.125  1.00 56.38      A16S
ATOM  19347  O3* G   A 926     198.433 115.220 -29.193  1.00 56.38      A16S
ATOM  19348  P   G   A 927     196.913 115.641 -28.973  1.00 45.13      A16S
ATOM  19349  O1P G   A 927     196.407 114.874 -27.823  1.00 40.23      A16S
ATOM  19350  O2P G   A 927     196.218 115.547 -30.277  1.00 40.23      A16S
ATOM  19351  O5* G   A 927     197.040 117.183 -28.591  1.00 45.13      A16S
ATOM  19352  C5* G   A 927     196.045 117.834 -27.789  1.00 45.13      A16S
ATOM  19353  C4* G   A 927     195.173 118.717 -28.646  1.00 45.13      A16S
ATOM  19354  O4* G   A 927     193.885 118.802 -28.000  1.00 45.13      A16S
ATOM  19355  C1* G   A 927     193.319 120.073 -28.227  1.00 45.13      A16S
ATOM  19356  N9  G   A 927     193.192 120.750 -26.943  1.00 40.23      A16S
ATOM  19357  C4  G   A 927     192.398 121.827 -26.692  1.00 40.23      A16S
ATOM  19358  N3  G   A 927     191.582 122.419 -27.580  1.00 40.23      A16S
ATOM  19359  C2  G   A 927     190.958 123.449 -27.064  1.00 40.23      A16S
ATOM  19360  N2  G   A 927     190.103 124.160 -27.821  1.00 40.23      A16S
ATOM  19361  N1  G   A 927     191.121 123.863 -25.773  1.00 40.23      A16S
ATOM  19362  C6  G   A 927     191.956 123.269 -24.835  1.00 40.23      A16S
ATOM  19363  O6  G   A 927     192.025 123.734 -23.683  1.00 40.23      A16S
ATOM  19364  C5  G   A 927     192.634 122.160 -25.382  1.00 40.23      A16S
ATOM  19365  N7  G   A 927     193.549 121.289 -24.808  1.00 40.23      A16S
ATOM  19366  C8  G   A 927     193.849 120.465 -25.769  1.00 40.23      A16S
ATOM  19367  C2* G   A 927     194.255 120.836 -29.156  1.00 45.13      A16S
ATOM  19368  O2* G   A 927     193.815 120.640 -30.478  1.00 45.13      A16S
ATOM  19369  C3* G   A 927     195.589 120.166 -28.868  1.00 45.13      A16S
ATOM  19370  O3* G   A 927     196.486 120.364 -29.950  1.00 45.13      A16S
ATOM  19371  P   G   A 928     197.348 121.725 -30.033  1.00 45.55      A16S
ATOM  19372  O1P G   A 928     198.123 121.706 -31.290  1.00 44.27      A16S
ATOM  19373  O2P G   A 928     198.048 121.917 -28.735  1.00 44.27      A16S
ATOM  19374  O5* G   A 928     196.279 122.882 -30.219  1.00 45.55      A16S
ATOM  19375  C5* G   A 928     195.665 123.102 -31.490  1.00 45.55      A16S
ATOM  19376  C4* G   A 928     194.842 124.366 -31.462  1.00 45.55      A16S
ATOM  19377  O4* G   A 928     193.738 124.206 -30.536  1.00 45.55      A16S
ATOM  19378  C1* G   A 928     193.481 125.434 -29.882  1.00 45.55      A16S
ATOM  19379  N9  G   A 928     193.754 125.254 -28.460  1.00 44.27      A16S
ATOM  19380  C4  G   A 928     193.467 126.148 -27.455  1.00 44.27      A16S
ATOM  19381  N3  G   A 928     192.858 127.345 -27.608  1.00 44.27      A16S
ATOM  19382  C2  G   A 928     192.731 127.981 -26.456  1.00 44.27      A16S
ATOM  19383  N2  G   A 928     192.137 129.180 -26.429  1.00 44.27      A16S
ATOM  19384  N1  G   A 928     193.171 127.485 -25.251  1.00 44.27      A16S
ATOM  19385  C6  G   A 928     193.794 126.253 -25.074  1.00 44.27      A16S
ATOM  19386  O6  G   A 928     194.143 125.893 -23.946  1.00 44.27      A16S
ATOM  19387  C5  G   A 928     193.934 125.560 -26.297  1.00 44.27      A16S
ATOM  19388  N7  G   A 928     194.487 124.316 -26.564  1.00 44.27      A16S
ATOM  19389  C8  G   A 928     194.357 124.177 -27.856  1.00 44.27      A16S
ATOM  19390  C2* G   A 928     194.406 126.479 -30.499  1.00 45.55      A16S
ATOM  19391  O2* G   A 928     193.752 127.098 -31.586  1.00 45.55      A16S
ATOM  19392  C3* G   A 928     195.559 125.617 -30.982  1.00 45.55      A16S
ATOM  19393  O3* G   A 928     196.303 126.253 -32.017  1.00 45.55      A16S
ATOM  19394  P   G   A 929     197.586 127.148 -31.635  1.00 59.83      A16S
ATOM  19395  O1P G   A 929     198.231 127.501 -32.918  1.00 40.48      A16S
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ATOM  19396  O2P G   A 929     198.379 126.480 -30.568  1.00 40.48      A16S
ATOM  19397  O5* G   A 929     196.962 128.466 -31.008  1.00 59.83      A16S
ATOM  19398  C5* G   A 929     195.987 129.212 -31.734  1.00 59.83      A16S
ATOM  19399  C4* G   A 929     195.427 130.307 -30.875  1.00 59.83      A16S
ATOM  19400  O4* G   A 929     194.624 129.749 -29.803  1.00 59.83      A16S
ATOM  19401  C1* G   A 929     194.700 130.593 -28.669  1.00 59.83      A16S
ATOM  19402  N9  G   A 929     195.269 129.846 -27.552  1.00 40.48      A16S
ATOM  19403  C4  G   A 929     195.223 130.226 -26.229  1.00 40.48      A16S
ATOM  19404  N3  G   A 929     194.654 131.351 -25.750  1.00 40.48      A16S
ATOM  19405  C2  G   A 929     194.756 131.432 -24.440  1.00 40.48      A16S
ATOM  19406  N2  G   A 929     194.236 132.481 -23.809  1.00 40.48      A16S
ATOM  19407  N1  G   A 929     195.370 130.493 -23.653  1.00 40.48      A16S
ATOM  19408  C6  G   A 929     195.962 129.329 -24.118  1.00 40.48      A16S
ATOM  19409  O6  G   A 929     196.484 128.549 -23.321  1.00 40.48      A16S
ATOM  19410  C5  G   A 929     195.862 129.223 -25.534  1.00 40.48      A16S
ATOM  19411  N7  G   A 929     196.319 128.238 -26.402  1.00 40.48      A16S
ATOM  19412  C8  G   A 929     195.946 128.652 -27.587  1.00 40.48      A16S
ATOM  19413  C2* G   A 929     195.601 131.764 -29.036  1.00 59.83      A16S
ATOM  19414  O2* G   A 929     194.819 132.840 -29.522  1.00 59.83      A16S
ATOM  19415  C3* G   A 929     196.443 131.151 -30.137  1.00 59.83      A16S
ATOM  19416  O3* G   A 929     197.057 132.133 -30.933  1.00 59.83      A16S
ATOM  19417  P   C   A 930     198.551 132.591 -30.577  1.00 67.52      A16S
ATOM  19418  O1P C   A 930     198.920 133.553 -31.638  1.00 40.62      A16S
ATOM  19419  O2P C   A 930     199.392 131.383 -30.332  1.00 40.62      A16S
ATOM  19420  O5* C   A 930     198.404 133.367 -29.197  1.00 67.52      A16S
ATOM  19421  C5* C   A 930     197.631 134.566 -29.129  1.00 67.52      A16S
ATOM  19422  C4* C   A 930     197.562 135.075 -27.714  1.00 67.52      A16S
ATOM  19423  O4* C   A 930     196.867 134.123 -26.872  1.00 67.52      A16S
ATOM  19424  C1* C   A 930     197.328 134.252 -25.543  1.00 67.52      A16S
ATOM  19425  N1  C   A 930     197.858 132.973 -25.075  1.00 40.62      A16S
ATOM  19426  C6  C   A 930     198.180 131.963 -25.935  1.00 40.62      A16S
ATOM  19427  C2  C   A 930     198.045 132.816 -23.703  1.00 40.62      A16S
ATOM  19428  O2  C   A 930     197.763 133.762 -22.957  1.00 40.62      A16S
ATOM  19429  N3  C   A 930     198.538 131.651 -23.225  1.00 40.62      A16S
ATOM  19430  C4  C   A 930     198.858 130.678 -24.068  1.00 40.62      A16S
ATOM  19431  N4  C   A 930     199.353 129.563 -23.554  1.00 40.62      A16S
ATOM  19432  C5  C   A 930     198.684 130.810 -25.478  1.00 40.62      A16S
ATOM  19433  C2* C   A 930     198.436 135.294 -25.530  1.00 67.52      A16S
ATOM  19434  O2* C   A 930     197.882 136.523 -25.113  1.00 67.52      A16S
ATOM  19435  C3* C   A 930     198.875 135.290 -26.986  1.00 67.52      A16S
ATOM  19436  O3* C   A 930     199.519 136.500 -27.335  1.00 67.52      A16S
ATOM  19437  P   C   A 931     201.117 136.592 -27.209  1.00 67.84      A16S
ATOM  19438  O1P C   A 931     201.471 137.976 -27.599  1.00 27.97      A16S
ATOM  19439  O2P C   A 931     201.705 135.448 -27.952  1.00 27.97      A16S
ATOM  19440  O5* C   A 931     201.407 136.349 -25.658  1.00 67.84      A16S
ATOM  19441  C5* C   A 931     200.944 137.291 -24.684  1.00 67.84      A16S
ATOM  19442  C4* C   A 931     201.394 136.913 -23.293  1.00 67.84      A16S
ATOM  19443  O4* C   A 931     200.704 135.727 -22.821  1.00 67.84      A16S
ATOM  19444  C1* C   A 931     201.472 135.114 -21.804  1.00 67.84      A16S
ATOM  19445  N1  C   A 931     201.688 133.691 -22.113  1.00 27.97      A16S
ATOM  19446  C6  C   A 931     201.727 133.232 -23.399  1.00 27.97      A16S
ATOM  19447  C2  C   A 931     201.900 132.809 -21.051  1.00 27.97      A16S
ATOM  19448  O2  C   A 931     201.823 133.238 -19.898  1.00 27.97      A16S
ATOM  19449  N3  C   A 931     202.186 131.516 -21.302  1.00 27.97      A16S
ATOM  19450  C4  C   A 931     202.259 131.092 -22.552  1.00 27.97      A16S
ATOM  19451  N4  C   A 931     202.581 129.827 -22.747  1.00 27.97      A16S
ATOM  19452  C5  C   A 931     202.013 131.952 -23.659  1.00 27.97      A16S
ATOM  19453  C2* C   A 931     202.803 135.858 -21.719  1.00 67.84      A16S
ATOM  19454  O2* C   A 931     202.747 136.720 -20.601  1.00 67.84      A16S
ATOM  19455  C3* C   A 931     202.854 136.586 -23.064  1.00 67.84      A16S
ATOM  19456  O3* C   A 931     203.666 137.758 -23.026  1.00 67.84      A16S
ATOM  19457  P   C   A 932     205.237 137.630 -22.674  1.00 44.90      A16S
ATOM  19458  O1P C   A 932     205.856 138.990 -22.744  1.00 33.19      A16S
ATOM  19459  O2P C   A 932     205.806 136.508 -23.494  1.00 33.19      A16S
ATOM  19460  O5* C   A 932     205.198 137.214 -21.139  1.00 44.90      A16S
ATOM  19461  C5* C   A 932     206.374 137.015 -20.402  1.00 44.90      A16S
ATOM  19462  C4* C   A 932     206.012 136.585 -19.021  1.00 44.90      A16S
ATOM  19463  O4* C   A 932     204.998 135.564 -19.098  1.00 44.90      A16S
ATOM  19464  C1* C   A 932     205.242 134.581 -18.110  1.00 44.90      A16S
ATOM  19465  N1  C   A 932     205.449 133.286 -18.775  1.00 33.19      A16S
ATOM  19466  C6  C   A 932     205.358 133.163 -20.134  1.00 33.19      A16S
ATOM  19467  C2  C   A 932     205.751 132.169 -17.982  1.00 33.19      A16S
ATOM  19468  O2  C   A 932     205.846 132.315 -16.752  1.00 33.19      A16S
ATOM  19469  N3  C   A 932     205.940 130.968 -18.572  1.00 33.19      A16S
ATOM  19470  C4  C   A 932     205.851 130.861 -19.897  1.00 33.19      A16S
ATOM  19471  N4  C   A 932     206.047 129.660 -20.435  1.00 33.19      A16S
ATOM  19472  C5  C   A 932     205.555 131.986 -20.732  1.00 33.19      A16S
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ATOM  19473  C2* C   A 932     206.471 135.010 -17.303  1.00 44.90      A16S
ATOM  19474  O2* C   A 932     206.081 135.607 -16.085  1.00 44.90      A16S
ATOM  19475  C3* C   A 932     207.161 135.949 -18.276  1.00 44.90      A16S
ATOM  19476  O3* C   A 932     207.945 136.940 -17.656  1.00 44.90      A16S
ATOM  19477  P    G   A 933     209.521 136.949 -17.904  1.00 52.91      A16S
ATOM  19478  O1P G   A 933     210.018 138.219 -17.347  1.00 31.80      A16S
ATOM  19479  O2P G   A 933     209.806 136.619 -19.328  1.00 31.80      A16S
ATOM  19480  O5* G   A 933     210.025 135.764 -16.973  1.00 52.91      A16S
ATOM  19481  C5* G   A 933     209.889 135.867 -15.565  1.00 52.91      A16S
ATOM  19482  C4* G   A 933     210.209 134.558 -14.913  1.00 52.91      A16S
ATOM  19483  O4* G   A 933     209.246 133.578 -15.338  1.00 52.91      A16S
ATOM  19484  C1* G   A 933     209.830 132.292 -15.286  1.00 52.91      A16S
ATOM  19485  N9   G   A 933     209.625 131.619 -16.564  1.00 31.80      A16S
ATOM  19486  C4   G   A 933     209.607 130.269 -16.759  1.00 31.80      A16S
ATOM  19487  N3   G   A 933     209.766 129.335 -15.803  1.00 31.80      A16S
ATOM  19488  C2   G   A 933     209.686 128.112 -16.295  1.00 31.80      A16S
ATOM  19489  N2   G   A 933     209.794 127.059 -15.469  1.00 31.80      A16S
ATOM  19490  N1   G   A 933     209.484 127.835 -17.630  1.00 31.80      A16S
ATOM  19491  C6   G   A 933     209.318 128.797 -18.627  1.00 31.80      A16S
ATOM  19492  O6   G   A 933     209.129 128.459 -19.797  1.00 31.80      A16S
ATOM  19493  C5   G   A 933     209.391 130.096 -18.109  1.00 31.80      A16S
ATOM  19494  N7   G   A 933     209.276 131.316 -18.752  1.00 31.80      A16S
ATOM  19495  C8   G   A 933     209.418 132.192 -17.797  1.00 31.80      A16S
ATOM  19496  C2* G   A 933     211.299 132.457 -14.899  1.00 52.91      A16S
ATOM  19497  O2* G   A 933     211.403 132.197 -13.515  1.00 52.91      A16S
ATOM  19498  C3* G   A 933     211.548 133.922 -15.242  1.00 52.91      A16S
ATOM  19499  O3* G   A 933     212.597 134.487 -14.458  1.00 52.91      A16S
ATOM  19500  P    C   A 934     213.868 135.159 -15.190  1.00 50.28      A16S
ATOM  19501  O1P C   A 934     214.636 135.876 -14.138  1.00 65.00      A16S
ATOM  19502  O2P C   A 934     213.413 135.902 -16.402  1.00 65.00      A16S
ATOM  19503  O5* C   A 934     214.739 133.897 -15.626  1.00 50.28      A16S
ATOM  19504  C5* C   A 934     215.377 133.075 -14.623  1.00 50.28      A16S
ATOM  19505  C4* C   A 934     215.874 131.787 -15.227  1.00 50.28      A16S
ATOM  19506  O4* C   A 934     216.875 132.057 -16.247  1.00 50.28      A16S
ATOM  19507  C1* C   A 934     218.027 131.292 -15.981  1.00 50.28      A16S
ATOM  19508  N1   C   A 934     219.214 131.988 -16.500  1.00 65.00      A16S
ATOM  19509  C6   C   A 934     219.928 132.853 -15.721  1.00 65.00      A16S
ATOM  19510  C2   C   A 934     219.616 131.729 -17.815  1.00 65.00      A16S
ATOM  19511  O2   C   A 934     218.928 130.963 -18.517  1.00 65.00      A16S
ATOM  19512  N3   C   A 934     220.741 132.320 -18.291  1.00 65.00      A16S
ATOM  19513  C4   C   A 934     221.441 133.145 -17.510  1.00 65.00      A16S
ATOM  19514  N4   C   A 934     222.548 133.692 -18.008  1.00 65.00      A16S
ATOM  19515  C5   C   A 934     221.037 133.444 -16.181  1.00 65.00      A16S
ATOM  19516  C2* C   A 934     218.011 131.034 -14.481  1.00 50.28      A16S
ATOM  19517  O2* C   A 934     218.782 129.895 -14.194  1.00 50.28      A16S
ATOM  19518  C3* C   A 934     216.523 130.828 -14.235  1.00 50.28      A16S
ATOM  19519  O3* C   A 934     216.196 129.496 -14.611  1.00 50.28      A16S
ATOM  19520  P    A   A 935     214.780 128.865 -14.188  1.00 56.40      A16S
ATOM  19521  O1P A   A 935     213.842 130.002 -13.979  1.00 32.32      A16S
ATOM  19522  O2P A   A 935     215.000 127.861 -13.085  1.00 32.32      A16S
ATOM  19523  O5* A   A 935     214.292 128.120 -15.507  1.00 56.40      A16S
ATOM  19524  C5* A   A 935     213.678 126.832 -15.419  1.00 56.40      A16S
ATOM  19525  C4* A   A 935     213.278 126.346 -16.784  1.00 56.40      A16S
ATOM  19526  O4* A   A 935     212.254 127.208 -17.333  1.00 56.40      A16S
ATOM  19527  C1* A   A 935     212.374 127.245 -18.734  1.00 56.40      A16S
ATOM  19528  N9   A   A 935     212.543 128.630 -19.151  1.00 32.32      A16S
ATOM  19529  C4   A   A 935     212.491 129.046 -20.454  1.00 32.32      A16S
ATOM  19530  N3   A   A 935     212.340 128.269 -21.538  1.00 32.32      A16S
ATOM  19531  C2   A   A 935     212.271 129.015 -22.636  1.00 32.32      A16S
ATOM  19532  N1   A   A 935     212.334 130.354 -22.764  1.00 32.32      A16S
ATOM  19533  C6   A   A 935     212.494 131.104 -21.652  1.00 32.32      A16S
ATOM  19534  N6   A   A 935     212.546 132.431 -21.788  1.00 32.32      A16S
ATOM  19535  C5   A   A 935     212.587 130.426 -20.418  1.00 32.32      A16S
ATOM  19536  N7   A   A 935     212.751 130.868 -19.114  1.00 32.32      A16S
ATOM  19537  C8   A   A 935     212.729 129.764 -18.402  1.00 32.32      A16S
ATOM  19538  C2* A   A 935     213.552 126.367 -19.124  1.00 56.40      A16S
ATOM  19539  O2* A   A 935     213.066 125.081 -19.405  1.00 56.40      A16S
ATOM  19540  C3* A   A 935     214.357 126.364 -17.842  1.00 56.40      A16S
ATOM  19541  O3* A   A 935     215.219 125.253 -17.762  1.00 56.40      A16S
ATOM  19542  P    C   A 936     216.745 125.427 -18.227  1.00 39.21      A16S
ATOM  19543  O1P C   A 936     217.464 124.196 -17.772  1.00 21.88      A16S
ATOM  19544  O2P C   A 936     217.204 126.768 -17.753  1.00 21.88      A16S
ATOM  19545  O5* C   A 936     216.639 125.472 -19.820  1.00 39.21      A16S
ATOM  19546  C5* C   A 936     216.248 124.301 -20.544  1.00 39.21      A16S
ATOM  19547  C4* C   A 936     215.910 124.634 -21.973  1.00 39.21      A16S
ATOM  19548  O4* C   A 936     214.893 125.662 -22.022  1.00 39.21      A16S
ATOM  19549  C1* C   A 936     215.029 126.411 -23.211  1.00 39.21      A16S
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ATOM  19550  N1  C   A 936     215.247 127.819 -22.875  1.00 21.88      A16S
ATOM  19551  C6  C   A 936     215.629 128.203 -21.617  1.00 21.88      A16S
ATOM  19552  C2  C   A 936     215.064 128.771 -23.876  1.00 21.88      A16S
ATOM  19553  O2  C   A 936     214.697 128.389 -24.985  1.00 21.88      A16S
ATOM  19554  N3  C   A 936     215.280 130.084 -23.601  1.00 21.88      A16S
ATOM  19555  C4  C   A 936     215.638 130.452 -22.368  1.00 21.88      A16S
ATOM  19556  N4  C   A 936     215.803 131.750 -22.123  1.00 21.88      A16S
ATOM  19557  C5  C   A 936     215.830 129.498 -21.322  1.00 21.88      A16S
ATOM  19558  C2* C   A 936     216.225 125.855 -23.967  1.00 39.21      A16S
ATOM  19559  O2* C   A 936     215.743 124.938 -24.925  1.00 39.21      A16S
ATOM  19560  C3* C   A 936     217.013 125.188 -22.847  1.00 39.21      A16S
ATOM  19561  O3* C   A 936     217.863 124.168 -23.341  1.00 39.21      A16S
ATOM  19562  P   A   A 937     219.386 124.518 -23.714  1.00 42.12      A16S
ATOM  19563  O1P A   A 937     219.881 123.298 -24.408  1.00 47.16      A16S
ATOM  19564  O2P A   A 937     220.087 125.002 -22.490  1.00 47.16      A16S
ATOM  19565  O5* A   A 937     219.294 125.711 -24.772  1.00 42.12      A16S
ATOM  19566  C5* A   A 937     219.080 125.429 -26.162  1.00 42.12      A16S
ATOM  19567  C4* A   A 937     218.840 126.700 -26.936  1.00 42.12      A16S
ATOM  19568  O4* A   A 937     217.800 127.444 -26.260  1.00 42.12      A16S
ATOM  19569  C1* A   A 937     218.050 128.836 -26.375  1.00 42.12      A16S
ATOM  19570  N9  A   A 937     218.341 129.368 -25.045  1.00 47.16      A16S
ATOM  19571  C4  A   A 937     218.436 130.697 -24.728  1.00 47.16      A16S
ATOM  19572  N3  A   A 937     218.281 131.739 -25.558  1.00 47.16      A16S
ATOM  19573  C2  A   A 937     218.457 132.879 -24.909  1.00 47.16      A16S
ATOM  19574  N1  A   A 937     218.741 133.078 -23.621  1.00 47.16      A16S
ATOM  19575  C6  A   A 937     218.879 132.004 -22.814  1.00 47.16      A16S
ATOM  19576  N6  A   A 937     219.146 132.199 -21.521  1.00 47.16      A16S
ATOM  19577  C5  A   A 937     218.728 130.742 -23.383  1.00 47.16      A16S
ATOM  19578  N7  A   A 937     218.815 129.464 -22.852  1.00 47.16      A16S
ATOM  19579  C8  A   A 937     218.580 128.686 -23.875  1.00 47.16      A16S
ATOM  19580  C2* A   A 937     219.251 129.008 -27.290  1.00 42.12      A16S
ATOM  19581  O2* A   A 937     218.758 129.185 -28.607  1.00 42.12      A16S
ATOM  19582  C3* A   A 937     219.989 127.694 -27.057  1.00 42.12      A16S
ATOM  19583  O3* A   A 937     220.892 127.391 -28.119  1.00 42.12      A16S
ATOM  19584  P   A   A 938     222.482 127.490 -27.864  1.00 46.27      A16S
ATOM  19585  O1P A   A 938     223.161 127.115 -29.132  1.00 48.18      A16S
ATOM  19586  O2P A   A 938     222.800 126.744 -26.610  1.00 48.18      A16S
ATOM  19587  O5* A   A 938     222.743 129.042 -27.606  1.00 46.27      A16S
ATOM  19588  C5* A   A 938     222.726 129.978 -28.695  1.00 46.27      A16S
ATOM  19589  C4* A   A 938     223.141 131.345 -28.213  1.00 46.27      A16S
ATOM  19590  O4* A   A 938     222.183 131.802 -27.231  1.00 46.27      A16S
ATOM  19591  C1* A   A 938     222.842 132.518 -26.210  1.00 46.27      A16S
ATOM  19592  N9  A   A 938     222.667 131.770 -24.966  1.00 48.18      A16S
ATOM  19593  C4  A   A 938     222.810 132.257 -23.690  1.00 48.18      A16S
ATOM  19594  N3  A   A 938     223.171 133.497 -23.327  1.00 48.18      A16S
ATOM  19595  C2  A   A 938     223.169 133.615 -22.005  1.00 48.18      A16S
ATOM  19596  N1  A   A 938     222.868 132.707 -21.073  1.00 48.18      A16S
ATOM  19597  C6  A   A 938     222.514 131.469 -21.470  1.00 48.18      A16S
ATOM  19598  N6  A   A 938     222.207 130.564 -20.542  1.00 48.18      A16S
ATOM  19599  C5  A   A 938     222.485 131.210 -22.847  1.00 48.18      A16S
ATOM  19600  N7  A   A 938     222.178 130.067 -23.574  1.00 48.18      A16S
ATOM  19601  C8  A   A 938     222.304 130.450 -24.823  1.00 48.18      A16S
ATOM  19602  C2* A   A 938     224.304 132.663 -26.621  1.00 46.27      A16S
ATOM  19603  O2* A   A 938     224.446 133.885 -27.331  1.00 46.27      A16S
ATOM  19604  C3* A   A 938     224.486 131.434 -27.506  1.00 46.27      A16S
ATOM  19605  O3* A   A 938     225.562 131.583 -28.426  1.00 46.27      A16S
ATOM  19606  P   G   A 939     226.944 130.815 -28.159  1.00 61.19      A16S
ATOM  19607  O1P G   A 939     227.846 131.336 -29.205  1.00 51.17      A16S
ATOM  19608  O2P G   A 939     226.676 129.369 -28.078  1.00 51.17      A16S
ATOM  19609  O5* G   A 939     227.423 131.300 -26.714  1.00 61.19      A16S
ATOM  19610  C5* G   A 939     227.889 132.644 -26.526  1.00 61.19      A16S
ATOM  19611  C4* G   A 939     228.050 132.990 -25.053  1.00 61.19      A16S
ATOM  19612  O4* G   A 939     226.784 132.880 -24.355  1.00 61.19      A16S
ATOM  19613  C1* G   A 939     227.038 132.720 -22.972  1.00 61.19      A16S
ATOM  19614  N9  G   A 939     226.271 131.592 -22.451  1.00 51.17      A16S
ATOM  19615  C4  G   A 939     225.938 131.391 -21.138  1.00 51.17      A16S
ATOM  19616  N3  G   A 939     226.221 132.223 -20.118  1.00 51.17      A16S
ATOM  19617  C2  G   A 939     225.781 131.760 -18.972  1.00 51.17      A16S
ATOM  19618  N2  G   A 939     225.976 132.471 -17.862  1.00 51.17      A16S
ATOM  19619  N1  G   A 939     225.120 130.565 -18.836  1.00 51.17      A16S
ATOM  19620  C6  G   A 939     224.818 129.695 -19.880  1.00 51.17      A16S
ATOM  19621  O6  G   A 939     224.218 128.640 -19.656  1.00 51.17      A16S
ATOM  19622  C5  G   A 939     225.278 130.188 -21.108  1.00 51.17      A16S
ATOM  19623  N7  G   A 939     225.170 129.655 -22.375  1.00 51.17      A16S
ATOM  19624  C8  G   A 939     225.769 130.524 -23.142  1.00 51.17      A16S
ATOM  19625  C2* G   A 939     228.548 132.569 -22.771  1.00 61.19      A16S
ATOM  19626  O2* G   A 939     229.062 133.811 -22.338  1.00 61.19      A16S
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ATOM  19627  C3* G   A 939     229.036 132.220 -24.176  1.00 61.19      A16S
ATOM  19628  O3* G   A 939     230.378 132.704 -24.334  1.00 61.19      A16S
ATOM  19629  P   C   A 940     231.636 131.736 -24.033  1.00 44.67      A16S
ATOM  19630  O1P C   A 940     232.795 132.428 -24.664  1.00 68.51      A16S
ATOM  19631  O2P C   A 940     231.309 130.336 -24.420  1.00 68.51      A16S
ATOM  19632  O5* C   A 940     231.814 131.748 -22.451  1.00 44.67      A16S
ATOM  19633  C5* C   A 940     232.393 132.880 -21.800  1.00 44.67      A16S
ATOM  19634  C4* C   A 940     232.258 132.770 -20.301  1.00 44.67      A16S
ATOM  19635  O4* C   A 940     230.869 132.881 -19.908  1.00 44.67      A16S
ATOM  19636  C1* C   A 940     230.661 132.158 -18.711  1.00 44.67      A16S
ATOM  19637  N1  C   A 940     229.628 131.131 -18.927  1.00 68.51      A16S
ATOM  19638  C6  C   A 940     229.476 130.525 -20.140  1.00 68.51      A16S
ATOM  19639  C2  C   A 940     228.830 130.749 -17.850  1.00 68.51      A16S
ATOM  19640  O2  C   A 940     228.922 131.375 -16.785  1.00 68.51      A16S
ATOM  19641  N3  C   A 940     227.969 129.723 -17.994  1.00 68.51      A16S
ATOM  19642  C4  C   A 940     227.861 129.109 -19.167  1.00 68.51      A16S
ATOM  19643  N4  C   A 940     227.025 128.080 -19.257  1.00 68.51      A16S
ATOM  19644  C5  C   A 940     228.613 129.519 -20.302  1.00 68.51      A16S
ATOM  19645  C2* C   A 940     231.990 131.512 -18.324  1.00 44.67      A16S
ATOM  19646  O2* C   A 940     232.679 132.318 -17.399  1.00 44.67      A16S
ATOM  19647  C3* C   A 940     232.719 131.480 -19.653  1.00 44.67      A16S
ATOM  19648  O3* C   A 940     234.116 131.422 -19.442  1.00 44.67      A16S
ATOM  19649  P   G   A 941     234.818 129.989 -19.226  1.00 40.31      A16S
ATOM  19650  O1P G   A 941     236.288 130.234 -19.132  1.00 70.85      A16S
ATOM  19651  O2P G   A 941     234.293 129.039 -20.254  1.00 70.85      A16S
ATOM  19652  O5* G   A 941     234.287 129.518 -17.802  1.00 40.31      A16S
ATOM  19653  C5* G   A 941     234.814 130.110 -16.617  1.00 40.31      A16S
ATOM  19654  C4* G   A 941     234.112 129.575 -15.405  1.00 40.31      A16S
ATOM  19655  O4* G   A 941     232.698 129.848 -15.527  1.00 40.31      A16S
ATOM  19656  C1* G   A 941     231.967 128.827 -14.880  1.00 40.31      A16S
ATOM  19657  N9  G   A 941     231.064 128.212 -15.849  1.00 70.85      A16S
ATOM  19658  C4  G   A 941     230.061 127.322 -15.562  1.00 70.85      A16S
ATOM  19659  N3  G   A 941     229.725 126.882 -14.337  1.00 70.85      A16S
ATOM  19660  C2  G   A 941     228.726 126.024 -14.379  1.00 70.85      A16S
ATOM  19661  N2  G   A 941     228.267 125.489 -13.252  1.00 70.85      A16S
ATOM  19662  N1  G   A 941     228.106 125.624 -15.527  1.00 70.85      A16S
ATOM  19663  C6  G   A 941     228.435 126.054 -16.801  1.00 70.85      A16S
ATOM  19664  O6  G   A 941     227.820 125.606 -17.772  1.00 70.85      A16S
ATOM  19665  C5  G   A 941     229.505 126.992 -16.775  1.00 70.85      A16S
ATOM  19666  N7  G   A 941     230.131 127.679 -17.807  1.00 70.85      A16S
ATOM  19667  C8  G   A 941     231.047 128.390 -17.211  1.00 70.85      A16S
ATOM  19668  C2* G   A 941     232.975 127.835 -14.292  1.00 40.31      A16S
ATOM  19669  O2* G   A 941     233.243 128.161 -12.942  1.00 40.31      A16S
ATOM  19670  C3* G   A 941     234.195 128.081 -15.161  1.00 40.31      A16S
ATOM  19671  O3* G   A 941     235.377 127.719 -14.472  1.00 40.31      A16S
ATOM  19672  P   G   A 942     235.918 126.209 -14.571  1.00 54.97      A16S
ATOM  19673  O1P G   A 942     237.119 126.079 -13.705  1.00 69.47      A16S
ATOM  19674  O2P G   A 942     236.010 125.854 -15.998  1.00 69.47      A16S
ATOM  19675  O5* G   A 942     234.754 125.333 -13.922  1.00 54.97      A16S
ATOM  19676  C5* G   A 942     234.383 125.543 -12.552  1.00 54.97      A16S
ATOM  19677  C4* G   A 942     233.184 124.700 -12.152  1.00 54.97      A16S
ATOM  19678  O4* G   A 942     232.042 124.953 -13.011  1.00 54.97      A16S
ATOM  19679  C1* G   A 942     231.088 123.936 -12.788  1.00 54.97      A16S
ATOM  19680  N9  G   A 942     230.512 123.490 -14.051  1.00 69.47      A16S
ATOM  19681  C4  G   A 942     229.531 122.538 -14.175  1.00 69.47      A16S
ATOM  19682  N3  G   A 942     228.908 121.915 -13.160  1.00 69.47      A16S
ATOM  19683  C2  G   A 942     228.051 121.019 -13.583  1.00 69.47      A16S
ATOM  19684  N2  G   A 942     227.346 120.309 -12.698  1.00 69.47      A16S
ATOM  19685  N1  G   A 942     227.824 120.746 -14.897  1.00 69.47      A16S
ATOM  19686  C6  G   A 942     228.459 121.365 -15.962  1.00 69.47      A16S
ATOM  19687  O6  G   A 942     228.203 121.013 -17.114  1.00 69.47      A16S
ATOM  19688  C5  G   A 942     229.370 122.349 -15.523  1.00 69.47      A16S
ATOM  19689  N7  G   A 942     230.190 123.208 -16.243  1.00 69.47      A16S
ATOM  19690  C8  G   A 942     230.845 123.871 -15.326  1.00 69.47      A16S
ATOM  19691  C2* G   A 942     231.802 122.791 -12.061  1.00 54.97      A16S
ATOM  19692  O2* G   A 942     231.374 122.769 -10.715  1.00 54.97      A16S
ATOM  19693  C3* G   A 942     233.272 123.184 -12.164  1.00 54.97      A16S
ATOM  19694  O3* G   A 942     233.949 122.652 -11.026  1.00 54.97      A16S
ATOM  19695  P   U   A 943     234.298 121.083 -10.980  1.00 44.81      A16S
ATOM  19696  O1P U   A 943     235.143 120.747  -9.803  1.00 58.69      A16S
ATOM  19697  O2P U   A 943     234.736 120.673 -12.340  1.00 58.69      A16S
ATOM  19698  O5* U   A 943     232.892 120.396 -10.730  1.00 44.81      A16S
ATOM  19699  C5* U   A 943     232.394 120.200  -9.407  1.00 44.81      A16S
ATOM  19700  C4* U   A 943     231.228 119.253  -9.436  1.00 44.81      A16S
ATOM  19701  O4* U   A 943     230.236 119.754 -10.369  1.00 44.81      A16S
ATOM  19702  C1* U   A 943     229.591 118.671 -10.999  1.00 44.81      A16S
ATOM  19703  N1  U   A 943     229.854 118.736 -12.444  1.00 58.69      A16S
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ATOM  19704  C6  U   A 943     230.771 119.605 -12.970  1.00 58.69      A16S
ATOM  19705  C2  U   A 943     229.158 117.866 -13.263  1.00 58.69      A16S
ATOM  19706  O2  U   A 943     228.303 117.107 -12.846  1.00 58.69      A16S
ATOM  19707  N3  U   A 943     229.497 117.919 -14.590  1.00 58.69      A16S
ATOM  19708  C4  U   A 943     230.426 118.744 -15.173  1.00 58.69      A16S
ATOM  19709  O4  U   A 943     230.693 118.609 -16.366  1.00 58.69      A16S
ATOM  19710  C5  U   A 943     231.069 119.641 -14.269  1.00 58.69      A16S
ATOM  19711  C2* U   A 943     230.147 117.391 -10.373  1.00 44.81      A16S
ATOM  19712  O2* U   A 943     229.313 117.083  -9.276  1.00 44.81      A16S
ATOM  19713  C3* U   A 943     231.519 117.837  -9.897  1.00 44.81      A16S
ATOM  19714  O3* U   A 943     231.955 117.049  -8.797  1.00 44.81      A16S
ATOM  19715  P   G   A 944     232.863 115.741  -9.045  1.00 42.04      A16S
ATOM  19716  O1P G   A 944     232.866 114.972  -7.772  1.00 51.18      A16S
ATOM  19717  O2P G   A 944     234.157 116.138  -9.654  1.00 51.18      A16S
ATOM  19718  O5* G   A 944     232.043 114.912 -10.122  1.00 42.04      A16S
ATOM  19719  C5* G   A 944     230.840 114.245  -9.752  1.00 42.04      A16S
ATOM  19720  C4* G   A 944     230.372 113.363 -10.869  1.00 42.04      A16S
ATOM  19721  O4* G   A 944     229.842 114.164 -11.949  1.00 42.04      A16S
ATOM  19722  C1* G   A 944     230.186 113.576 -13.186  1.00 42.04      A16S
ATOM  19723  N9  G   A 944     231.011 114.539 -13.896  1.00 51.18      A16S
ATOM  19724  C4  G   A 944     231.240 114.604 -15.243  1.00 51.18      A16S
ATOM  19725  N3  G   A 944     230.729 113.778 -16.175  1.00 51.18      A16S
ATOM  19726  C2  G   A 944     231.131 114.104 -17.392  1.00 51.18      A16S
ATOM  19727  N2  G   A 944     230.722 113.396 -18.443  1.00 51.18      A16S
ATOM  19728  N1  G   A 944     231.970 115.151 -17.667  1.00 51.18      A16S
ATOM  19729  C6  G   A 944     232.513 116.013 -16.718  1.00 51.18      A16S
ATOM  19730  O6  G   A 944     233.277 116.928 -17.068  1.00 51.18      A16S
ATOM  19731  C5  G   A 944     232.082 115.680 -15.416  1.00 51.18      A16S
ATOM  19732  N7  G   A 944     232.370 116.280 -14.203  1.00 51.18      A16S
ATOM  19733  C8  G   A 944     231.715 115.570 -13.332  1.00 51.18      A16S
ATOM  19734  C2* G   A 944     230.910 112.263 -12.884  1.00 42.04      A16S
ATOM  19735  O2* G   A 944     229.951 111.232 -12.864  1.00 42.04      A16S
ATOM  19736  C3* G   A 944     231.461 112.521 -11.489  1.00 42.04      A16S
ATOM  19737  O3* G   A 944     231.632 111.341 -10.719  1.00 42.04      A16S
ATOM  19738  P   G   A 945     232.956 111.167  -9.815  1.00 48.77      A16S
ATOM  19739  O1P G   A 945     232.649 110.326  -8.611  1.00 43.59      A16S
ATOM  19740  O2P G   A 945     233.543 112.527  -9.635  1.00 43.59      A16S
ATOM  19741  O5* G   A 945     233.922 110.295 -10.731  1.00 48.77      A16S
ATOM  19742  C5* G   A 945     234.136 110.648 -12.096  1.00 48.77      A16S
ATOM  19743  C4* G   A 945     235.462 110.127 -12.572  1.00 48.77      A16S
ATOM  19744  O4* G   A 945     235.825 110.959 -13.696  1.00 48.77      A16S
ATOM  19745  C1* G   A 945     237.101 111.514 -13.496  1.00 48.77      A16S
ATOM  19746  N9  G   A 945     236.914 112.938 -13.217  1.00 43.59      A16S
ATOM  19747  C4  G   A 945     237.841 113.815 -12.713  1.00 43.59      A16S
ATOM  19748  N3  G   A 945     239.105 113.511 -12.350  1.00 43.59      A16S
ATOM  19749  C2  G   A 945     239.764 114.570 -11.923  1.00 43.59      A16S
ATOM  19750  N2  G   A 945     241.027 114.433 -11.512  1.00 43.59      A16S
ATOM  19751  N1  G   A 945     239.227 115.834 -11.865  1.00 43.59      A16S
ATOM  19752  C6  G   A 945     237.930 116.169 -12.240  1.00 43.59      A16S
ATOM  19753  O6  G   A 945     237.550 117.339 -12.170  1.00 43.59      A16S
ATOM  19754  C5  G   A 945     237.210 115.039 -12.685  1.00 43.59      A16S
ATOM  19755  N7  G   A 945     235.905 114.932 -13.138  1.00 43.59      A16S
ATOM  19756  C8  G   A 945     235.772 113.670 -13.438  1.00 43.59      A16S
ATOM  19757  C2* G   A 945     237.778 110.683 -12.407  1.00 48.77      A16S
ATOM  19758  O2* G   A 945     238.391 109.577 -13.028  1.00 48.77      A16S
ATOM  19759  C3* G   A 945     236.590 110.266 -11.559  1.00 48.77      A16S
ATOM  19760  O3* G   A 945     236.818 109.005 -10.943  1.00 48.77      A16S
ATOM  19761  P   A   A 946     237.369 108.937  -9.437  1.00 39.21      A16S
ATOM  19762  O1P A   A 946     237.779 107.539  -9.136  1.00 46.10      A16S
ATOM  19763  O2P A   A 946     236.372 109.597  -8.574  1.00 46.10      A16S
ATOM  19764  O5* A   A 946     238.663 109.864  -9.467  1.00 39.21      A16S
ATOM  19765  C5* A   A 946     239.916 109.362  -9.949  1.00 39.21      A16S
ATOM  19766  C4* A   A 946     241.060 110.165  -9.374  1.00 39.21      A16S
ATOM  19767  O4* A   A 946     240.997 111.526  -9.862  1.00 39.21      A16S
ATOM  19768  C1* A   A 946     241.456 112.400  -8.855  1.00 39.21      A16S
ATOM  19769  N9  A   A 946     240.464 113.461  -8.683  1.00 46.10      A16S
ATOM  19770  C4  A   A 946     240.630 114.651  -8.016  1.00 46.10      A16S
ATOM  19771  N3  A   A 946     241.703 115.056  -7.325  1.00 46.10      A16S
ATOM  19772  C2  A   A 946     241.521 116.290  -6.866  1.00 46.10      A16S
ATOM  19773  N1  A   A 946     240.469 117.103  -7.011  1.00 46.10      A16S
ATOM  19774  C6  A   A 946     239.408 116.660  -7.704  1.00 46.10      A16S
ATOM  19775  N6  A   A 946     238.368 117.466  -7.854  1.00 46.10      A16S
ATOM  19776  C5  A   A 946     239.469 115.371  -8.235  1.00 46.10      A16S
ATOM  19777  N7  A   A 946     238.568 114.631  -8.979  1.00 46.10      A16S
ATOM  19778  C8  A   A 946     239.197 113.502  -9.203  1.00 46.10      A16S
ATOM  19779  C2* A   A 946     241.825 111.574  -7.616  1.00 39.21      A16S
ATOM  19780  O2* A   A 946     243.214 111.344  -7.599  1.00 39.21      A16S
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ATOM  19781  C3* A   A 946     241.084 110.271  -7.857  1.00 39.21      A16S
ATOM  19782  O3* A   A 946     241.814 109.179  -7.303  1.00 39.21      A16S
ATOM  19783  P    G   A 947     241.339 108.526  -5.912  1.00 41.83      A16S
ATOM  19784  O1P G   A 947     242.068 107.247  -5.736  1.00 45.81      A16S
ATOM  19785  O2P G   A 947     239.856 108.526  -5.899  1.00 45.81      A16S
ATOM  19786  O5* G   A 947     241.847 109.558  -4.807  1.00 41.83      A16S
ATOM  19787  C5* G   A 947     243.222 109.560  -4.395  1.00 41.83      A16S
ATOM  19788  C4* G   A 947     243.546 110.801  -3.604  1.00 41.83      A16S
ATOM  19789  O4* G   A 947     243.341 111.990  -4.412  1.00 41.83      A16S
ATOM  19790  C1* G   A 947     242.904 113.063  -3.588  1.00 41.83      A16S
ATOM  19791  N9   G   A 947     241.606 113.504  -4.087  1.00 45.81      A16S
ATOM  19792  C4   G   A 947     240.986 114.721  -3.887  1.00 45.81      A16S
ATOM  19793  N3   G   A 947     241.463 115.759  -3.168  1.00 45.81      A16S
ATOM  19794  C2   G   A 947     240.636 116.800  -3.201  1.00 45.81      A16S
ATOM  19795  N2   G   A 947     240.953 117.943  -2.595  1.00 45.81      A16S
ATOM  19796  N1   G   A 947     239.438 116.802  -3.847  1.00 45.81      A16S
ATOM  19797  C6   G   A 947     238.926 115.745  -4.573  1.00 45.81      A16S
ATOM  19798  O6   G   A 947     237.829 115.850  -5.104  1.00 45.81      A16S
ATOM  19799  C5   G   A 947     239.802 114.641  -4.581  1.00 45.81      A16S
ATOM  19800  N7   G   A 947     239.674 113.410  -5.197  1.00 45.81      A16S
ATOM  19801  C8   G   A 947     240.759 112.769  -4.871  1.00 45.81      A16S
ATOM  19802  C2* G   A 947     242.873 112.544  -2.146  1.00 41.83      A16S
ATOM  19803  O2* G   A 947     244.104 112.865  -1.525  1.00 41.83      A16S
ATOM  19804  C3* G   A 947     242.723 111.042  -2.355  1.00 41.83      A16S
ATOM  19805  O3* G   A 947     243.216 110.279  -1.266  1.00 41.83      A16S
ATOM  19806  P    C   A 948     242.171 109.593  -0.261  1.00 40.62      A16S
ATOM  19807  O1P C   A 948     242.899 108.697   0.686  1.00 52.84      A16S
ATOM  19808  O2P C   A 948     241.055 109.025  -1.067  1.00 52.84      A16S
ATOM  19809  O5* C   A 948     241.601 110.851   0.532  1.00 40.62      A16S
ATOM  19810  C5* C   A 948     242.453 111.565   1.412  1.00 40.62      A16S
ATOM  19811  C4* C   A 948     241.929 112.948   1.666  1.00 40.62      A16S
ATOM  19812  O4* C   A 948     241.727 113.643   0.417  1.00 40.62      A16S
ATOM  19813  C1* C   A 948     240.689 114.593   0.565  1.00 40.62      A16S
ATOM  19814  N1   C   A 948     239.609 114.267  -0.375  1.00 52.84      A16S
ATOM  19815  C6   C   A 948     239.426 112.987  -0.816  1.00 52.84      A16S
ATOM  19816  C2   C   A 948     238.751 115.286  -0.789  1.00 52.84      A16S
ATOM  19817  O2   C   A 948     238.952 116.444  -0.392  1.00 52.84      A16S
ATOM  19818  N3   C   A 948     237.728 114.987  -1.609  1.00 52.84      A16S
ATOM  19819  C4   C   A 948     237.554 113.735  -2.028  1.00 52.84      A16S
ATOM  19820  N4   C   A 948     236.538 113.487  -2.846  1.00 52.84      A16S
ATOM  19821  C5   C   A 948     238.420 112.682  -1.632  1.00 52.84      A16S
ATOM  19822  C2* C   A 948     240.168 114.482   1.996  1.00 40.62      A16S
ATOM  19823  O2* C   A 948     240.754 115.481   2.802  1.00 40.62      A16S
ATOM  19824  C3* C   A 948     240.599 113.073   2.370  1.00 40.62      A16S
ATOM  19825  O3* C   A 948     240.722 112.946   3.767  1.00 40.62      A16S
ATOM  19826  P    A   A 949     239.404 112.710   4.640  1.00 39.68      A16S
ATOM  19827  O1P A   A 949     239.809 112.576   6.071  1.00 58.36      A16S
ATOM  19828  O2P A   A 949     238.671 111.589   3.987  1.00 58.36      A16S
ATOM  19829  O5* A   A 949     238.602 114.076   4.452  1.00 39.68      A16S
ATOM  19830  C5* A   A 949     239.055 115.270   5.093  1.00 39.68      A16S
ATOM  19831  C4* A   A 949     237.931 116.260   5.217  1.00 39.68      A16S
ATOM  19832  O4* A   A 949     237.619 116.837   3.920  1.00 39.68      A16S
ATOM  19833  C1* A   A 949     236.217 117.007   3.793  1.00 39.68      A16S
ATOM  19834  N9   A   A 949     235.754 116.056   2.775  1.00 58.36      A16S
ATOM  19835  C4   A   A 949     234.604 116.093   2.023  1.00 58.36      A16S
ATOM  19836  N3   A   A 949     233.636 117.018   2.048  1.00 58.36      A16S
ATOM  19837  C2   A   A 949     232.689 116.728   1.163  1.00 58.36      A16S
ATOM  19838  N1   A   A 949     232.604 115.698   0.320  1.00 58.36      A16S
ATOM  19839  C6   A   A 949     233.596 114.786   0.321  1.00 58.36      A16S
ATOM  19840  N6   A   A 949     233.525 113.751  -0.520  1.00 58.36      A16S
ATOM  19841  C5   A   A 949     234.653 114.977   1.209  1.00 58.36      A16S
ATOM  19842  N7   A   A 949     235.801 114.241   1.447  1.00 58.36      A16S
ATOM  19843  C8   A   A 949     236.417 114.916   2.380  1.00 58.36      A16S
ATOM  19844  C2* A   A 949     235.616 116.708   5.172  1.00 39.68      A16S
ATOM  19845  O2* A   A 949     235.593 117.892   5.958  1.00 39.68      A16S
ATOM  19846  C3* A   A 949     236.615 115.704   5.725  1.00 39.68      A16S
ATOM  19847  O3* A   A 949     236.568 115.628   7.135  1.00 39.68      A16S
ATOM  19848  P    U   A 950     235.591 114.562   7.836  1.00 53.89      A16S
ATOM  19849  O1P U   A 950     235.696 114.789   9.297  1.00 49.64      A16S
ATOM  19850  O2P U   A 950     235.888 113.205   7.289  1.00 49.64      A16S
ATOM  19851  O5* U   A 950     234.135 115.015   7.359  1.00 53.89      A16S
ATOM  19852  C5* U   A 950     233.559 116.249   7.821  1.00 53.89      A16S
ATOM  19853  C4* U   A 950     232.221 116.508   7.152  1.00 53.89      A16S
ATOM  19854  O4* U   A 950     232.420 116.671   5.724  1.00 53.89      A16S
ATOM  19855  C1* U   A 950     231.290 116.176   5.022  1.00 53.89      A16S
ATOM  19856  N1   U   A 950     231.689 115.016   4.197  1.00 49.64      A16S
ATOM  19857  C6   U   A 950     232.745 114.194   4.531  1.00 49.64      A16S
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ATOM  19858  C2  U   A 950     230.945 114.764   3.063  1.00 49.64      A16S
ATOM  19859  O2  U   A 950     230.000 115.465   2.722  1.00 49.64      A16S
ATOM  19860  N3  U   A 950     231.336 113.663   2.339  1.00 49.64      A16S
ATOM  19861  C4  U   A 950     232.365 112.803   2.620  1.00 49.64      A16S
ATOM  19862  O4  U   A 950     232.578 111.847   1.867  1.00 49.64      A16S
ATOM  19863  C5  U   A 950     233.094 113.125   3.801  1.00 49.64      A16S
ATOM  19864  C2* U   A 950     230.257 115.762   6.065  1.00 53.89      A16S
ATOM  19865  O2* U   A 950     229.387 116.844   6.347  1.00 53.89      A16S
ATOM  19866  C3* U   A 950     231.152 115.428   7.244  1.00 53.89      A16S
ATOM  19867  O3* U   A 950     230.402 115.395   8.446  1.00 53.89      A16S
ATOM  19868  P   G   A 951     229.669 114.027   8.860  1.00 55.64      A16S
ATOM  19869  O1P G   A 951     229.138 114.163  10.234  1.00 51.99      A16S
ATOM  19870  O2P G   A 951     230.598 112.905   8.552  1.00 51.99      A16S
ATOM  19871  O5* G   A 951     228.429 113.959   7.865  1.00 55.64      A16S
ATOM  19872  C5* G   A 951     227.257 114.754   8.117  1.00 55.64      A16S
ATOM  19873  C4* G   A 951     226.175 114.464   7.101  1.00 55.64      A16S
ATOM  19874  O4* G   A 951     226.658 114.833   5.779  1.00 55.64      A16S
ATOM  19875  C1* G   A 951     226.098 113.962   4.813  1.00 55.64      A16S
ATOM  19876  N9  G   A 951     227.177 113.170   4.219  1.00 51.99      A16S
ATOM  19877  C4  G   A 951     227.102 112.432   3.055  1.00 51.99      A16S
ATOM  19878  N3  G   A 951     226.044 112.369   2.224  1.00 51.99      A16S
ATOM  19879  C2  G   A 951     226.240 111.523   1.246  1.00 51.99      A16S
ATOM  19880  N2  G   A 951     225.285 111.327   0.358  1.00 51.99      A16S
ATOM  19881  N1  G   A 951     227.384 110.801   1.074  1.00 51.99      A16S
ATOM  19882  C6  G   A 951     228.487 110.848   1.908  1.00 51.99      A16S
ATOM  19883  O6  G   A 951     229.461 110.142   1.670  1.00 51.99      A16S
ATOM  19884  C5  G   A 951     228.294 111.753   2.975  1.00 51.99      A16S
ATOM  19885  N7  G   A 951     229.127 112.092   4.035  1.00 51.99      A16S
ATOM  19886  C8  G   A 951     228.432 112.948   4.734  1.00 51.99      A16S
ATOM  19887  C2* G   A 951     225.118 113.037   5.553  1.00 55.64      A16S
ATOM  19888  O2* G   A 951     223.827 113.605   5.595  1.00 55.64      A16S
ATOM  19889  C3* G   A 951     225.695 113.022   6.953  1.00 55.64      A16S
ATOM  19890  O3* G   A 951     224.671 112.670   7.868  1.00 55.64      A16S
ATOM  19891  P   U   A 952     224.393 111.116   8.202  1.00 61.24      A16S
ATOM  19892  O1P U   A 952     223.209 111.090   9.095  1.00 51.58      A16S
ATOM  19893  O2P U   A 952     225.645 110.428   8.633  1.00 51.58      A16S
ATOM  19894  O5* U   A 952     223.942 110.501   6.808  1.00 61.24      A16S
ATOM  19895  C5* U   A 952     222.734 110.948   6.181  1.00 61.24      A16S
ATOM  19896  C4* U   A 952     222.492 110.206   4.887  1.00 61.24      A16S
ATOM  19897  O4* U   A 952     223.507 110.543   3.900  1.00 61.24      A16S
ATOM  19898  C1* U   A 952     223.707 109.435   3.033  1.00 61.24      A16S
ATOM  19899  N1  U   A 952     225.115 108.999   3.094  1.00 51.58      A16S
ATOM  19900  C6  U   A 952     225.960 109.380   4.111  1.00 51.58      A16S
ATOM  19901  C2  U   A 952     225.562 108.151   2.095  1.00 51.58      A16S
ATOM  19902  O2  U   A 952     224.871 107.815   1.152  1.00 51.58      A16S
ATOM  19903  N3  U   A 952     226.851 107.709   2.240  1.00 51.58      A16S
ATOM  19904  C4  U   A 952     227.729 108.023   3.242  1.00 51.58      A16S
ATOM  19905  O4  U   A 952     228.839 107.500   3.252  1.00 51.58      A16S
ATOM  19906  C5  U   A 952     227.218 108.930   4.216  1.00 51.58      A16S
ATOM  19907  C2* U   A 952     222.756 108.325   3.491  1.00 61.24      A16S
ATOM  19908  O2* U   A 952     221.546 108.400   2.760  1.00 61.24      A16S
ATOM  19909  C3* U   A 952     222.525 108.691   4.945  1.00 61.24      A16S
ATOM  19910  O3* U   A 952     221.318 108.129   5.412  1.00 61.24      A16S
ATOM  19911  P   G   A 953     221.309 106.600   5.899  1.00 60.13      A16S
ATOM  19912  O1P G   A 953     220.004 106.311   6.542  1.00 57.36      A16S
ATOM  19913  O2P G   A 953     222.561 106.352   6.645  1.00 57.36      A16S
ATOM  19914  O5* G   A 953     221.427 105.758   4.551  1.00 60.13      A16S
ATOM  19915  C5* G   A 953     220.417 105.837   3.515  1.00 60.13      A16S
ATOM  19916  C4* G   A 953     220.749 104.884   2.388  1.00 60.13      A16S
ATOM  19917  O4* G   A 953     221.948 105.324   1.702  1.00 60.13      A16S
ATOM  19918  C1* G   A 953     222.707 104.196   1.288  1.00 60.13      A16S
ATOM  19919  N9  G   A 953     224.026 104.248   1.915  1.00 57.36      A16S
ATOM  19920  C4  G   A 953     225.119 103.472   1.595  1.00 57.36      A16S
ATOM  19921  N3  G   A 953     225.179 102.550   0.615  1.00 57.36      A16S
ATOM  19922  C2  G   A 953     226.365 101.961   0.565  1.00 57.36      A16S
ATOM  19923  N2  G   A 953     226.605 101.011  -0.347  1.00 57.36      A16S
ATOM  19924  N1  G   A 953     227.405 102.255   1.405  1.00 57.36      A16S
ATOM  19925  C6  G   A 953     227.366 103.199   2.417  1.00 57.36      A16S
ATOM  19926  O6  G   A 953     228.358 103.382   3.114  1.00 57.36      A16S
ATOM  19927  C5  G   A 953     226.103 103.839   2.486  1.00 57.36      A16S
ATOM  19928  N7  G   A 953     225.652 104.840   3.332  1.00 57.36      A16S
ATOM  19929  C8  G   A 953     224.420 105.054   2.954  1.00 57.36      A16S
ATOM  19930  C2* G   A 953     221.935 102.944   1.702  1.00 60.13      A16S
ATOM  19931  O2* G   A 953     221.129 102.475   0.641  1.00 60.13      A16S
ATOM  19932  C3* G   A 953     221.080 103.473   2.835  1.00 60.13      A16S
ATOM  19933  O3* G   A 953     219.939 102.672   2.996  1.00 60.13      A16S
ATOM  19934  P   G   A 954     219.989 101.460   4.032  1.00 55.45      A16S
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ATOM  19935  O1P G   A 954     218.717 100.702   3.898  1.00 71.66      A16S
ATOM  19936  O2P G   A 954     220.366 102.055   5.341  1.00 71.66      A16S
ATOM  19937  O5* G   A 954     221.192 100.543   3.528  1.00 55.45      A16S
ATOM  19938  C5* G   A 954     221.110  99.819   2.285  1.00 55.45      A16S
ATOM  19939  C4* G   A 954     222.441  99.172   1.961  1.00 55.45      A16S
ATOM  19940  O4* G   A 954     223.467 100.194   1.877  1.00 55.45      A16S
ATOM  19941  C1* G   A 954     224.704  99.666   2.329  1.00 55.45      A16S
ATOM  19942  N9  G   A 954     225.225 100.499   3.410  1.00 71.66      A16S
ATOM  19943  C4  G   A 954     226.526 100.532   3.829  1.00 71.66      A16S
ATOM  19944  N3  G   A 954     227.542  99.833   3.292  1.00 71.66      A16S
ATOM  19945  C2  G   A 954     228.678 100.064   3.913  1.00 71.66      A16S
ATOM  19946  N2  G   A 954     229.795  99.472   3.488  1.00 71.66      A16S
ATOM  19947  N1  G   A 954     228.807 100.897   4.988  1.00 71.66      A16S
ATOM  19948  C6  G   A 954     227.774 101.625   5.561  1.00 71.66      A16S
ATOM  19949  O6  G   A 954     227.998 102.345   6.537  1.00 71.66      A16S
ATOM  19950  C5  G   A 954     226.549 101.404   4.891  1.00 71.66      A16S
ATOM  19951  N7  G   A 954     225.288 101.931   5.122  1.00 71.66      A16S
ATOM  19952  C8  G   A 954     224.535 101.369   4.219  1.00 71.66      A16S
ATOM  19953  C2* G   A 954     224.480  98.219   2.771  1.00 55.45      A16S
ATOM  19954  O2* G   A 954     224.975  97.342   1.783  1.00 55.45      A16S
ATOM  19955  C3* G   A 954     222.969  98.182   2.988  1.00 55.45      A16S
ATOM  19956  O3* G   A 954     222.425  96.885   2.786  1.00 55.45      A16S
ATOM  19957  P   U   A 955     222.226  95.901   4.040  1.00 60.82      A16S
ATOM  19958  O1P U   A 955     221.536  94.670   3.573  1.00 65.73      A16S
ATOM  19959  O2P U   A 955     221.647  96.686   5.163  1.00 65.73      A16S
ATOM  19960  O5* U   A 955     223.706  95.485   4.438  1.00 60.82      A16S
ATOM  19961  C5* U   A 955     224.523  94.736   3.534  1.00 60.82      A16S
ATOM  19962  C4* U   A 955     225.962  94.826   3.958  1.00 60.82      A16S
ATOM  19963  O4* U   A 955     226.375  96.213   3.930  1.00 60.82      A16S
ATOM  19964  C1* U   A 955     227.276  96.462   4.988  1.00 60.82      A16S
ATOM  19965  N1  U   A 955     226.734  97.523   5.844  1.00 65.73      A16S
ATOM  19966  C6  U   A 955     225.430  97.940   5.749  1.00 65.73      A16S
ATOM  19967  C2  U   A 955     227.592  98.088   6.759  1.00 65.73      A16S
ATOM  19968  O2  U   A 955     228.756  97.751   6.865  1.00 65.73      A16S
ATOM  19969  N3  U   A 955     227.041  99.062   7.548  1.00 65.73      A16S
ATOM  19970  C4  U   A 955     225.750  99.524   7.511  1.00 65.73      A16S
ATOM  19971  O4  U   A 955     225.406 100.421   8.283  1.00 65.73      A16S
ATOM  19972  C5  U   A 955     224.922  98.896   6.528  1.00 65.73      A16S
ATOM  19973  C2* U   A 955     227.482  95.155   5.745  1.00 60.82      A16S
ATOM  19974  O2* U   A 955     228.633  94.528   5.245  1.00 60.82      A16S
ATOM  19975  C3* U   A 955     226.228  94.383   5.382  1.00 60.82      A16S
ATOM  19976  O3* U   A 955     226.435  92.984   5.460  1.00 60.82      A16S
ATOM  19977  P   U   A 956     226.284  92.243   6.876  1.00 65.93      A16S
ATOM  19978  O1P U   A 956     226.717  90.837   6.683  1.00 73.34      A16S
ATOM  19979  O2P U   A 956     224.932  92.522   7.422  1.00 73.34      A16S
ATOM  19980  O5* U   A 956     227.353  92.986   7.795  1.00 65.93      A16S
ATOM  19981  C5* U   A 956     228.756  92.821   7.558  1.00 65.93      A16S
ATOM  19982  C4* U   A 956     229.561  93.548   8.602  1.00 65.93      A16S
ATOM  19983  O4* U   A 956     229.415  94.983   8.455  1.00 65.93      A16S
ATOM  19984  C1* U   A 956     229.568  95.605   9.720  1.00 65.93      A16S
ATOM  19985  N1  U   A 956     228.368  96.402  10.011  1.00 73.34      A16S
ATOM  19986  C6  U   A 956     227.155  96.110   9.435  1.00 73.34      A16S
ATOM  19987  C2  U   A 956     228.496  97.457  10.900  1.00 73.34      A16S
ATOM  19988  O2  U   A 956     229.554  97.766  11.421  1.00 73.34      A16S
ATOM  19989  N3  U   A 956     227.337  98.142  11.156  1.00 73.34      A16S
ATOM  19990  C4  U   A 956     226.095  97.891  10.624  1.00 73.34      A16S
ATOM  19991  O4  U   A 956     225.138  98.570  10.984  1.00 73.34      A16S
ATOM  19992  C5  U   A 956     226.047  96.800   9.704  1.00 73.34      A16S
ATOM  19993  C2* U   A 956     229.795  94.502  10.755  1.00 65.93      A16S
ATOM  19994  O2* U   A 956     231.186  94.361  10.978  1.00 65.93      A16S
ATOM  19995  C3* U   A 956     229.202  93.287  10.052  1.00 65.93      A16S
ATOM  19996  O3* U   A 956     229.764  92.070  10.521  1.00 65.93      A16S
ATOM  19997  P   U   A 957     229.116  91.339  11.797  1.00 60.93      A16S
ATOM  19998  O1P U   A 957     229.964  90.159  12.134  1.00 67.01      A16S
ATOM  19999  O2P U   A 957     227.660  91.155  11.543  1.00 67.01      A16S
ATOM  20000  O5* U   A 957     229.319  92.405  12.961  1.00 60.93      A16S
ATOM  20001  C5* U   A 957     230.632  92.678  13.460  1.00 60.93      A16S
ATOM  20002  C4* U   A 957     230.591  93.809  14.451  1.00 60.93      A16S
ATOM  20003  O4* U   A 957     229.976  94.966  13.832  1.00 60.93      A16S
ATOM  20004  C1* U   A 957     229.304  95.730  14.812  1.00 60.93      A16S
ATOM  20005  N1  U   A 957     227.895  95.854  14.424  1.00 67.01      A16S
ATOM  20006  C6  U   A 957     227.248  94.843  13.756  1.00 67.01      A16S
ATOM  20007  C2  U   A 957     227.236  97.028  14.752  1.00 67.01      A16S
ATOM  20008  O2  U   A 957     227.766  97.944  15.363  1.00 67.01      A16S
ATOM  20009  N3  U   A 957     225.930  97.089  14.342  1.00 67.01      A16S
ATOM  20010  C4  U   A 957     225.229  96.120  13.663  1.00 67.01      A16S
ATOM  20011  O4  U   A 957     224.064  96.339  13.330  1.00 67.01      A16S
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ATOM  20012  C5  U   A 957     225.974  94.932  13.378  1.00 67.01      A16S
ATOM  20013  C2* U   A 957     229.488  95.024  16.153  1.00 60.93      A16S
ATOM  20014  O2* U   A 957     230.596  95.622  16.795  1.00 60.93      A16S
ATOM  20015  C3* U   A 957     229.775  93.594  15.713  1.00 60.93      A16S
ATOM  20016  O3* U   A 957     230.496  92.849  16.690  1.00 60.93      A16S
ATOM  20017  P   A   A 958     229.733  91.721  17.546  1.00 75.68      A16S
ATOM  20018  O1P A   A 958     230.758  91.027  18.369  1.00 96.41      A16S
ATOM  20019  O2P A   A 958     228.847  90.924  16.654  1.00 96.41      A16S
ATOM  20020  O5* A   A 958     228.792  92.566  18.510  1.00 75.68      A16S
ATOM  20021  C5* A   A 958     227.793  91.925  19.319  1.00 75.68      A16S
ATOM  20022  C4* A   A 958     227.279  92.892  20.350  1.00 75.68      A16S
ATOM  20023  O4* A   A 958     228.314  93.160  21.316  1.00 75.68      A16S
ATOM  20024  C1* A   A 958     228.263  94.517  21.703  1.00 75.68      A16S
ATOM  20025  N9  A   A 958     229.600  95.086  21.553  1.00 96.41      A16S
ATOM  20026  C4  A   A 958     230.127  96.099  22.312  1.00 96.41      A16S
ATOM  20027  N3  A   A 958     229.516  96.775  23.294  1.00 96.41      A16S
ATOM  20028  C2  A   A 958     230.337  97.670  23.823  1.00 96.41      A16S
ATOM  20029  N1  A   A 958     231.606  97.948  23.508  1.00 96.41      A16S
ATOM  20030  C6  A   A 958     232.191  97.251  22.515  1.00 96.41      A16S
ATOM  20031  N6  A   A 958     233.457  97.535  22.197  1.00 96.41      A16S
ATOM  20032  C5  A   A 958     231.423  96.267  21.871  1.00 96.41      A16S
ATOM  20033  N7  A   A 958     231.705  95.390  20.833  1.00 96.41      A16S
ATOM  20034  C8  A   A 958     230.592  94.719  20.679  1.00 96.41      A16S
ATOM  20035  C2* A   A 958     227.136  95.207  20.932  1.00 75.68      A16S
ATOM  20036  O2* A   A 958     226.023  95.359  21.790  1.00 75.68      A16S
ATOM  20037  C3* A   A 958     226.908  94.241  19.773  1.00 75.68      A16S
ATOM  20038  O3* A   A 958     225.556  94.180  19.353  1.00 75.68      A16S
ATOM  20039  P   A   A 959     225.157  94.684  17.890  1.00 62.84      A16S
ATOM  20040  O1P A   A 959     223.775  94.207  17.623  1.00 91.01      A16S
ATOM  20041  O2P A   A 959     226.258  94.310  16.960  1.00 91.01      A16S
ATOM  20042  O5* A   A 959     225.122  96.266  18.060  1.00 62.84      A16S
ATOM  20043  C5* A   A 959     224.122  96.882  18.881  1.00 62.84      A16S
ATOM  20044  C4* A   A 959     224.544  98.270  19.273  1.00 62.84      A16S
ATOM  20045  O4* A   A 959     225.730  98.196  20.094  1.00 62.84      A16S
ATOM  20046  C1* A   A 959     226.557  99.316  19.840  1.00 62.84      A16S
ATOM  20047  N9  A   A 959     227.862  98.809  19.441  1.00 91.01      A16S
ATOM  20048  C4  A   A 959     229.069  99.124  20.006  1.00 91.01      A16S
ATOM  20049  N3  A   A 959     229.294  99.958  21.032  1.00 91.01      A16S
ATOM  20050  C2  A   A 959     230.591 100.019  21.306  1.00 91.01      A16S
ATOM  20051  N1  A   A 959     231.613  99.392  20.714  1.00 91.01      A16S
ATOM  20052  C6  A   A 959     231.349  98.554  19.688  1.00 91.01      A16S
ATOM  20053  N6  A   A 959     232.367  97.916  19.098  1.00 91.01      A16S
ATOM  20054  C5  A   A 959     230.012  98.402  19.303  1.00 91.01      A16S
ATOM  20055  N7  A   A 959     229.410  97.641  18.313  1.00 91.01      A16S
ATOM  20056  C8  A   A 959     228.139  97.918  18.437  1.00 91.01      A16S
ATOM  20057  C2* A   A 959     225.878 100.181  18.773  1.00 62.84      A16S
ATOM  20058  O2* A   A 959     225.246 101.297  19.372  1.00 62.84      A16S
ATOM  20059  C3* A   A 959     224.920  99.183  18.123  1.00 62.84      A16S
ATOM  20060  O3* A   A 959     223.758  99.785  17.567  1.00 62.84      A16S
ATOM  20061  P   U   A 960     223.058  99.118  16.279  1.00 69.51      A16S
ATOM  20062  O1P U   A 960     221.670  99.646  16.237  1.00 68.56      A16S
ATOM  20063  O2P U   A 960     223.288  97.644  16.300  1.00 68.56      A16S
ATOM  20064  O5* U   A 960     223.832  99.737  15.032  1.00 69.51      A16S
ATOM  20065  C5* U   A 960     225.243  99.976  15.096  1.00 69.51      A16S
ATOM  20066  C4* U   A 960     225.512 101.385  15.574  1.00 69.51      A16S
ATOM  20067  O4* U   A 960     226.862 101.445  16.071  1.00 69.51      A16S
ATOM  20068  C1* U   A 960     227.694 102.134  15.164  1.00 69.51      A16S
ATOM  20069  N1  U   A 960     228.759 101.184  14.778  1.00 68.56      A16S
ATOM  20070  C6  U   A 960     229.999 101.242  15.383  1.00 68.56      A16S
ATOM  20071  C2  U   A 960     228.489 100.196  13.832  1.00 68.56      A16S
ATOM  20072  O2  U   A 960     227.443 100.124  13.221  1.00 68.56      A16S
ATOM  20073  N3  U   A 960     229.503  99.293  13.626  1.00 68.56      A16S
ATOM  20074  C4  U   A 960     230.736  99.271  14.231  1.00 68.56      A16S
ATOM  20075  O4  U   A 960     231.480  98.311  14.040  1.00 68.56      A16S
ATOM  20076  C5  U   A 960     230.967 100.343  15.147  1.00 68.56      A16S
ATOM  20077  C2* U   A 960     226.825 102.705  14.037  1.00 69.51      A16S
ATOM  20078  O2* U   A 960     227.115 104.053  13.728  1.00 69.51      A16S
ATOM  20079  C3* U   A 960     225.394 102.494  14.542  1.00 69.51      A16S
ATOM  20080  O3* U   A 960     224.618 103.635  14.997  1.00 69.51      A16S
ATOM  20081  P   U   A 961     225.082 104.538  16.254  1.00 82.04      A16S
ATOM  20082  O1P U   A 961     225.485 105.886  15.770  1.00 46.35      A16S
ATOM  20083  O2P U   A 961     225.980 103.770  17.160  1.00 46.35      A16S
ATOM  20084  O5* U   A 961     223.718 104.785  17.038  1.00 82.04      A16S
ATOM  20085  C5* U   A 961     223.080 103.723  17.778  1.00 82.04      A16S
ATOM  20086  C4* U   A 961     221.808 104.225  18.417  1.00 82.04      A16S
ATOM  20087  O4* U   A 961     222.116 105.406  19.207  1.00 82.04      A16S
ATOM  20088  C1* U   A 961     221.015 106.301  19.185  1.00 82.04      A16S
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ATOM  20089  N1  U   A 961     221.420 107.577  18.574  1.00 46.35      A16S
ATOM  20090  C6  U   A 961     222.540 107.692  17.783  1.00 46.35      A16S
ATOM  20091  C2  U   A 961     220.596 108.668  18.795  1.00 46.35      A16S
ATOM  20092  O2  U   A 961     219.632 108.624  19.537  1.00 46.35      A16S
ATOM  20093  N3  U   A 961     220.945 109.812  18.128  1.00 46.35      A16S
ATOM  20094  C4  U   A 961     222.029 109.989  17.305  1.00 46.35      A16S
ATOM  20095  O4  U   A 961     222.216 111.091  16.781  1.00 46.35      A16S
ATOM  20096  C5  U   A 961     222.865 108.830  17.158  1.00 46.35      A16S
ATOM  20097  C2* U   A 961     219.922 105.660  18.338  1.00 82.04      A16S
ATOM  20098  O2* U   A 961     218.979 105.013  19.171  1.00 82.04      A16S
ATOM  20099  C3* U   A 961     220.732 104.715  17.467  1.00 82.04      A16S
ATOM  20100  O3* U   A 961     219.930 103.684  16.935  1.00 82.04      A16S
ATOM  20101  P   C   A 962     219.284 103.869  15.475  1.00 56.06      A16S
ATOM  20102  O1P C   A 962     218.434 102.676  15.256  1.00 60.11      A16S
ATOM  20103  O2P C   A 962     220.364 104.178  14.513  1.00 60.11      A16S
ATOM  20104  O5* C   A 962     218.381 105.179  15.599  1.00 56.06      A16S
ATOM  20105  C5* C   A 962     217.281 105.213  16.516  1.00 56.06      A16S
ATOM  20106  C4* C   A 962     216.613 106.564  16.508  1.00 56.06      A16S
ATOM  20107  O4* C   A 962     217.530 107.592  16.960  1.00 56.06      A16S
ATOM  20108  C1* C   A 962     217.137 108.844  16.412  1.00 56.06      A16S
ATOM  20109  N1  C   A 962     218.241 109.432  15.637  1.00 60.11      A16S
ATOM  20110  C6  C   A 962     219.353 108.713  15.299  1.00 60.11      A16S
ATOM  20111  C2  C   A 962     218.112 110.768  15.227  1.00 60.11      A16S
ATOM  20112  O2  C   A 962     217.092 111.398  15.550  1.00 60.11      A16S
ATOM  20113  N3  C   A 962     219.088 111.333  14.490  1.00 60.11      A16S
ATOM  20114  C4  C   A 962     220.159 110.621  14.153  1.00 60.11      A16S
ATOM  20115  N4  C   A 962     221.081 111.218  13.411  1.00 60.11      A16S
ATOM  20116  C5  C   A 962     220.326 109.262  14.561  1.00 60.11      A16S
ATOM  20117  C2* C   A 962     215.968 108.587  15.468  1.00 56.06      A16S
ATOM  20118  O2* C   A 962     214.752 108.905  16.116  1.00 56.06      A16S
ATOM  20119  C3* C   A 962     216.141 107.106  15.174  1.00 56.06      A16S
ATOM  20120  O3* C   A 962     214.952 106.523  14.693  1.00 56.06      A16S
ATOM  20121  P   G   A 963     214.804 106.255  13.116  1.00 56.88      A16S
ATOM  20122  O1P G   A 963     213.798 105.162  12.969  1.00 47.45      A16S
ATOM  20123  O2P G   A 963     216.164 106.064  12.545  1.00 47.45      A16S
ATOM  20124  O5* G   A 963     214.248 107.637  12.538  1.00 56.88      A16S
ATOM  20125  C5* G   A 963     213.053 108.226  13.059  1.00 56.88      A16S
ATOM  20126  C4* G   A 963     213.114 109.725  12.945  1.00 56.88      A16S
ATOM  20127  O4* G   A 963     214.368 110.179  13.507  1.00 56.88      A16S
ATOM  20128  C1* G   A 963     214.782 111.366  12.855  1.00 56.88      A16S
ATOM  20129  N9  G   A 963     216.071 111.139  12.206  1.00 47.45      A16S
ATOM  20130  C4  G   A 963     216.752 112.065  11.463  1.00 47.45      A16S
ATOM  20131  N3  G   A 963     216.372 113.337  11.263  1.00 47.45      A16S
ATOM  20132  C2  G   A 963     217.199 113.977  10.472  1.00 47.45      A16S
ATOM  20133  N2  G   A 963     216.965 115.257  10.177  1.00 47.45      A16S
ATOM  20134  N1  G   A 963     218.316 113.412   9.916  1.00 47.45      A16S
ATOM  20135  C6  G   A 963     218.731 112.100  10.118  1.00 47.45      A16S
ATOM  20136  O6  G   A 963     219.763 111.684   9.571  1.00 47.45      A16S
ATOM  20137  C5  G   A 963     217.848 111.405  10.969  1.00 47.45      A16S
ATOM  20138  N7  G   A 963     217.883 110.096  11.424  1.00 47.45      A16S
ATOM  20139  C8  G   A 963     216.814 109.984  12.163  1.00 47.45      A16S
ATOM  20140  C2* G   A 963     213.735 111.691  11.794  1.00 56.88      A16S
ATOM  20141  O2* G   A 963     212.826 112.650  12.294  1.00 56.88      A16S
ATOM  20142  C3* G   A 963     213.119 110.325  11.550  1.00 56.88      A16S
ATOM  20143  O3* G   A 963     211.827 110.449  10.989  1.00 56.88      A16S
ATOM  20144  P   A   A 964     211.581 110.026   9.457  1.00 58.58      A16S
ATOM  20145  O1P A   A 964     210.105 110.042   9.237  1.00 43.20      A16S
ATOM  20146  O2P A   A 964     212.356 108.772   9.201  1.00 43.20      A16S
ATOM  20147  O5* A   A 964     212.200 111.226   8.626  1.00 58.58      A16S
ATOM  20148  C5* A   A 964     211.625 112.525   8.716  1.00 58.58      A16S
ATOM  20149  C4* A   A 964     212.479 113.504   7.975  1.00 58.58      A16S
ATOM  20150  O4* A   A 964     213.800 113.435   8.549  1.00 58.58      A16S
ATOM  20151  C1* A   A 964     214.774 113.548   7.533  1.00 58.58      A16S
ATOM  20152  N9  A   A 964     215.596 112.333   7.565  1.00 43.20      A16S
ATOM  20153  C4  A   A 964     216.748 112.120   6.848  1.00 43.20      A16S
ATOM  20154  N3  A   A 964     217.331 112.965   5.982  1.00 43.20      A16S
ATOM  20155  C2  A   A 964     218.432 112.423   5.472  1.00 43.20      A16S
ATOM  20156  N1  A   A 964     218.977 111.220   5.714  1.00 43.20      A16S
ATOM  20157  C6  A   A 964     218.365 110.394   6.589  1.00 43.20      A16S
ATOM  20158  N6  A   A 964     218.911 109.200   6.823  1.00 43.20      A16S
ATOM  20159  C5  A   A 964     217.184 110.851   7.200  1.00 43.20      A16S
ATOM  20160  N7  A   A 964     216.323 110.272   8.124  1.00 43.20      A16S
ATOM  20161  C8  A   A 964     215.400 111.186   8.307  1.00 43.20      A16S
ATOM  20162  C2* A   A 964     214.039 113.808   6.213  1.00 58.58      A16S
ATOM  20163  O2* A   A 964     213.932 115.202   5.996  1.00 58.58      A16S
ATOM  20164  C3* A   A 964     212.676 113.195   6.499  1.00 58.58      A16S
ATOM  20165  O3* A   A 964     211.638 113.776   5.707  1.00 58.58      A16S
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ATOM  20166  P    A   A 965     210.591 112.822   4.940  1.00 39.20      A16S
ATOM  20167  O1P  A   A 965     209.435 113.661   4.511  1.00 69.06      A16S
ATOM  20168  O2P  A   A 965     210.377 111.580   5.747  1.00 69.06      A16S
ATOM  20169  O5*  A   A 965     211.366 112.373   3.637  1.00 39.20      A16S
ATOM  20170  C5*  A   A 965     211.626 113.306   2.580  1.00 39.20      A16S
ATOM  20171  C4*  A   A 965     211.932 112.546   1.329  1.00 39.20      A16S
ATOM  20172  O4*  A   A 965     213.248 111.935   1.442  1.00 39.20      A16S
ATOM  20173  C1*  A   A 965     213.170 110.541   1.253  1.00 39.20      A16S
ATOM  20174  N9   A   A 965     214.103 109.942   2.209  1.00 69.06      A16S
ATOM  20175  C4   A   A 965     215.202 109.158   1.934  1.00 69.06      A16S
ATOM  20176  N3   A   A 965     215.635 108.740   0.733  1.00 69.06      A16S
ATOM  20177  C2   A   A 965     216.736 108.001   0.860  1.00 69.06      A16S
ATOM  20178  N1   A   A 965     217.407 107.665   1.963  1.00 69.06      A16S
ATOM  20179  C6   A   A 965     216.947 108.104   3.152  1.00 69.06      A16S
ATOM  20180  N6   A   A 965     217.616 107.777   4.255  1.00 69.06      A16S
ATOM  20181  C5   A   A 965     215.785 108.885   3.157  1.00 69.06      A16S
ATOM  20182  N7   A   A 965     215.065 109.467   4.185  1.00 69.06      A16S
ATOM  20183  C8   A   A 965     214.079 110.076   3.573  1.00 69.06      A16S
ATOM  20184  C2*  A   A 965     211.713 110.147   1.476  1.00 39.20      A16S
ATOM  20185  O2*  A   A 965     211.332 108.998   0.768  1.00 39.20      A16S
ATOM  20186  C3*  A   A 965     210.951 111.417   1.090  1.00 39.20      A16S
ATOM  20187  O3*  A   A 965     210.162 111.599  -0.094  1.00 39.20      A16S
ATOM  20188  P    G   A 966     210.683 111.107  -1.519  1.00 54.41      A16S
ATOM  20189  O1P  G   A 966     211.097 109.683  -1.426  1.00 53.10      A16S
ATOM  20190  O2P  G   A 966     209.640 111.503  -2.497  1.00 53.10      A16S
ATOM  20191  O5*  G   A 966     211.940 112.036  -1.816  1.00 54.41      A16S
ATOM  20192  C5*  G   A 966     212.986 111.591  -2.686  1.00 54.41      A16S
ATOM  20193  C4*  G   A 966     213.032 112.439  -3.931  1.00 54.41      A16S
ATOM  20194  O4*  G   A 966     212.003 112.053  -4.868  1.00 54.41      A16S
ATOM  20195  C1*  G   A 966     211.825 113.109  -5.786  1.00 54.41      A16S
ATOM  20196  N9   G   A 966     210.412 113.275  -6.108  1.00 53.10      A16S
ATOM  20197  C4   G   A 966     209.928 114.069  -7.122  1.00 53.10      A16S
ATOM  20198  N3   G   A 966     210.677 114.782  -7.994  1.00 53.10      A16S
ATOM  20199  C2   G   A 966     209.935 115.477  -8.831  1.00 53.10      A16S
ATOM  20200  N2   G   A 966     210.519 116.245  -9.765  1.00 53.10      A16S
ATOM  20201  N1   G   A 966     208.567 115.475  -8.814  1.00 53.10      A16S
ATOM  20202  C6   G   A 966     207.777 114.746  -7.930  1.00 53.10      A16S
ATOM  20203  O6   G   A 966     206.541 114.822  -8.004  1.00 53.10      A16S
ATOM  20204  C5   G   A 966     208.564 113.990  -7.028  1.00 53.10      A16S
ATOM  20205  N7   G   A 966     208.190 113.135  -6.000  1.00 53.10      A16S
ATOM  20206  C8   G   A 966     209.321 112.729  -5.486  1.00 53.10      A16S
ATOM  20207  C2*  G   A 966     212.436 114.369  -5.174  1.00 54.41      A16S
ATOM  20208  O2*  G   A 966     213.581 114.718  -5.906  1.00 54.41      A16S
ATOM  20209  C3*  G   A 966     212.768 113.919  -3.757  1.00 54.41      A16S
ATOM  20210  O3*  G   A 966     213.900 114.607  -3.280  1.00 54.41      A16S
ATOM  20211  P    C   A 967     213.705 115.991  -2.497  1.00 35.56      A16S
ATOM  20212  O1P  C   A 967     215.037 116.337  -1.934  1.00 60.33      A16S
ATOM  20213  O2P  C   A 967     212.541 115.842  -1.587  1.00 60.33      A16S
ATOM  20214  O5*  C   A 967     213.320 117.039  -3.631  1.00 35.56      A16S
ATOM  20215  C5*  C   A 967     214.313 117.521  -4.530  1.00 35.56      A16S
ATOM  20216  C4*  C   A 967     213.671 118.301  -5.634  1.00 35.56      A16S
ATOM  20217  O4*  C   A 967     212.649 117.473  -6.236  1.00 35.56      A16S
ATOM  20218  C1*  C   A 967     211.581 118.288  -6.674  1.00 35.56      A16S
ATOM  20219  N1   C   A 967     210.320 117.795  -6.092  1.00 60.33      A16S
ATOM  20220  C6   C   A 967     210.311 117.027  -4.962  1.00 60.33      A16S
ATOM  20221  C2   C   A 967     209.124 118.116  -6.731  1.00 60.33      A16S
ATOM  20222  O2   C   A 967     209.156 118.839  -7.734  1.00 60.33      A16S
ATOM  20223  N3   C   A 967     207.963 117.642  -6.241  1.00 60.33      A16S
ATOM  20224  C4   C   A 967     207.964 116.884  -5.149  1.00 60.33      A16S
ATOM  20225  N4   C   A 967     206.792 116.434  -4.705  1.00 60.33      A16S
ATOM  20226  C5   C   A 967     209.166 116.554  -4.462  1.00 60.33      A16S
ATOM  20227  C2*  C   A 967     211.916 119.739  -6.330  1.00 35.56      A16S
ATOM  20228  O2*  C   A 967     212.455 120.355  -7.483  1.00 35.56      A16S
ATOM  20229  C3*  C   A 967     212.950 119.574  -5.220  1.00 35.56      A16S
ATOM  20230  O3*  C   A 967     213.834 120.696  -5.218  1.00 35.56      A16S
ATOM  20231  P    A   A 968     214.385 121.302  -3.825  1.00 64.22      A16S
ATOM  20232  O1P  A   A 968     214.696 122.735  -4.101  1.00 66.67      A16S
ATOM  20233  O2P  A   A 968     215.452 120.414  -3.274  1.00 66.67      A16S
ATOM  20234  O5*  A   A 968     213.146 121.247  -2.823  1.00 64.22      A16S
ATOM  20235  C5*  A   A 968     213.296 121.690  -1.461  1.00 64.22      A16S
ATOM  20236  C4*  A   A 968     212.333 120.963  -0.556  1.00 64.22      A16S
ATOM  20237  O4*  A   A 968     210.987 121.228  -1.007  1.00 64.22      A16S
ATOM  20238  C1*  A   A 968     210.328 120.022  -1.303  1.00 64.22      A16S
ATOM  20239  N9   A   A 968     209.571 120.237  -2.534  1.00 66.67      A16S
ATOM  20240  C4   A   A 968     208.265 119.887  -2.762  1.00 66.67      A16S
ATOM  20241  N3   A   A 968     207.428 119.270  -1.915  1.00 66.67      A16S
ATOM  20242  C2   A   A 968     206.240 119.110  -2.473  1.00 66.67      A16S
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ATOM	20243	N1	A	A	968	205.825	119.460	-3.690	1.00	66.67	A16S
ATOM	20244	C6	A	A	968	206.696	120.067	-4.520	1.00	66.67	A16S
ATOM	20245	N6	A	A	968	206.290	120.396	-5.750	1.00	66.67	A16S
ATOM	20246	C5	A	A	968	207.982	120.308	-4.045	1.00	66.67	A16S
ATOM	20247	N7	A	A	968	209.091	120.911	-4.622	1.00	66.67	A16S
ATOM	20248	C8	A	A	968	210.006	120.840	-3.690	1.00	66.67	A16S
ATOM	20249	C2*	A	A	968	211.405	118.950	-1.438	1.00	64.22	A16S
ATOM	20250	O2*	A	A	968	210.880	117.700	-1.051	1.00	64.22	A16S
ATOM	20251	C3*	A	A	968	212.478	119.454	-0.481	1.00	64.22	A16S
ATOM	20252	O3*	A	A	968	212.166	119.057	0.841	1.00	64.22	A16S
ATOM	20253	P	A	A	969	213.313	119.073	1.958	1.00	44.47	A16S
ATOM	20254	O1P	A	A	969	212.845	118.390	3.190	1.00	52.49	A16S
ATOM	20255	O2P	A	A	969	213.821	120.463	2.039	1.00	52.49	A16S
ATOM	20256	O5*	A	A	969	214.424	118.120	1.349	1.00	44.47	A16S
ATOM	20257	C5*	A	A	969	214.171	116.717	1.195	1.00	44.47	A16S
ATOM	20258	C4*	A	A	969	214.920	115.957	2.245	1.00	44.47	A16S
ATOM	20259	O4*	A	A	969	214.640	114.548	2.094	1.00	44.47	A16S
ATOM	20260	C1*	A	A	969	215.804	113.795	2.384	1.00	44.47	A16S
ATOM	20261	N9	A	A	969	216.215	113.118	1.156	1.00	52.49	A16S
ATOM	20262	C4	A	A	969	217.099	112.070	1.062	1.00	52.49	A16S
ATOM	20263	N3	A	A	969	217.724	111.439	2.068	1.00	52.49	A16S
ATOM	20264	C2	A	A	969	218.528	110.489	1.599	1.00	52.49	A16S
ATOM	20265	N1	A	A	969	218.763	110.128	0.335	1.00	52.49	A16S
ATOM	20266	C6	A	A	969	218.120	110.788	-0.652	1.00	52.49	A16S
ATOM	20267	N6	A	A	969	218.364	110.442	-1.914	1.00	52.49	A16S
ATOM	20268	C5	A	A	969	217.233	111.810	-0.286	1.00	52.49	A16S
ATOM	20269	N7	A	A	969	216.427	112.657	-1.032	1.00	52.49	A16S
ATOM	20270	C8	A	A	969	215.841	113.408	-0.132	1.00	52.49	A16S
ATOM	20271	C2*	A	A	969	216.886	114.776	2.840	1.00	44.47	A16S
ATOM	20272	O2*	A	A	969	216.917	114.853	4.254	1.00	44.47	A16S
ATOM	20273	C3*	A	A	969	216.433	116.060	2.154	1.00	44.47	A16S
ATOM	20274	O3*	A	A	969	216.939	117.249	2.762	1.00	44.47	A16S
ATOM	20275	P	C	A	970	218.216	117.998	2.115	1.00	49.20	A16S
ATOM	20276	O1P	C	A	970	218.595	119.088	3.048	1.00	77.57	A16S
ATOM	20277	O2P	C	A	970	217.938	118.338	0.683	1.00	77.57	A16S
ATOM	20278	O5*	C	A	970	219.366	116.901	2.227	1.00	49.20	A16S
ATOM	20279	C5*	C	A	970	219.761	116.419	3.518	1.00	49.20	A16S
ATOM	20280	C4*	C	A	970	220.865	115.398	3.400	1.00	49.20	A16S
ATOM	20281	O4*	C	A	970	220.385	114.204	2.719	1.00	49.20	A16S
ATOM	20282	C1*	C	A	970	221.439	113.626	1.966	1.00	49.20	A16S
ATOM	20283	N1	C	A	970	221.051	113.616	0.541	1.00	77.57	A16S
ATOM	20284	C6	C	A	970	220.279	114.615	0.018	1.00	77.57	A16S
ATOM	20285	C2	C	A	970	221.508	112.579	-0.280	1.00	77.57	A16S
ATOM	20286	O2	C	A	970	222.180	111.666	0.222	1.00	77.57	A16S
ATOM	20287	N3	C	A	970	221.203	112.597	-1.599	1.00	77.57	A16S
ATOM	20288	C4	C	A	970	220.468	113.588	-2.100	1.00	77.57	A16S
ATOM	20289	N4	C	A	970	220.207	113.578	-3.404	1.00	77.57	A16S
ATOM	20290	C5	C	A	970	219.969	114.640	-1.285	1.00	77.57	A16S
ATOM	20291	C2*	C	A	970	222.689	114.480	2.201	1.00	49.20	A16S
ATOM	20292	O2*	C	A	970	223.464	113.936	3.243	1.00	49.20	A16S
ATOM	20293	C3*	C	A	970	222.088	115.816	2.609	1.00	49.20	A16S
ATOM	20294	O3*	C	A	970	223.004	116.579	3.368	1.00	49.20	A16S
ATOM	20295	P	G	A	971	223.852	117.727	2.636	1.00	47.65	A16S
ATOM	20296	O1P	G	A	971	223.120	119.017	2.741	1.00	77.17	A16S
ATOM	20297	O2P	G	A	971	224.239	117.222	1.291	1.00	77.17	A16S
ATOM	20298	O5*	G	A	971	225.184	117.802	3.507	1.00	47.65	A16S
ATOM	20299	C5*	G	A	971	225.138	117.901	4.952	1.00	47.65	A16S
ATOM	20300	C4*	G	A	971	225.781	119.200	5.419	1.00	47.65	A16S
ATOM	20301	O4*	G	A	971	227.239	119.108	5.457	1.00	47.65	A16S
ATOM	20302	C1*	G	A	971	227.776	120.295	4.919	1.00	47.65	A16S
ATOM	20303	N9	G	A	971	229.150	120.063	4.491	1.00	77.17	A16S
ATOM	20304	C4	G	A	971	230.245	119.981	5.315	1.00	77.17	A16S
ATOM	20305	N3	G	A	971	230.233	120.068	6.659	1.00	77.17	A16S
ATOM	20306	C2	G	A	971	231.443	119.966	7.173	1.00	77.17	A16S
ATOM	20307	N2	G	A	971	231.610	120.014	8.495	1.00	77.17	A16S
ATOM	20308	N1	G	A	971	232.576	119.804	6.431	1.00	77.17	A16S
ATOM	20309	C6	G	A	971	232.619	119.719	5.046	1.00	77.17	A16S
ATOM	20310	O6	G	A	971	233.708	119.590	4.470	1.00	77.17	A16S
ATOM	20311	C5	G	A	971	231.320	119.811	4.479	1.00	77.17	A16S
ATOM	20312	N7	G	A	971	230.911	119.769	3.155	1.00	77.17	A16S
ATOM	20313	C8	G	A	971	229.617	119.916	3.212	1.00	77.17	A16S
ATOM	20314	C2*	G	A	971	226.769	120.721	3.856	1.00	47.65	A16S
ATOM	20315	O2*	G	A	971	226.955	122.070	3.463	1.00	47.65	A16S
ATOM	20316	C3*	G	A	971	225.454	120.435	4.584	1.00	47.65	A16S
ATOM	20317	O3*	G	A	971	225.129	121.517	5.434	1.00	47.65	A16S
ATOM	20318	P	C	A	972	223.845	122.413	5.108	1.00	64.43	A16S
ATOM	20319	O1P	C	A	972	223.533	122.264	3.664	1.00	44.34	A16S

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ATOM  20320  O2P C   A 972     224.049 123.769   5.651  1.00 44.34      A16S
ATOM  20321  O5* C   A 972     222.718 121.713   5.989  1.00 64.43      A16S
ATOM  20322  C5* C   A 972     222.385 120.319   5.826  1.00 64.43      A16S
ATOM  20323  C4* C   A 972     220.993 120.074   6.352  1.00 64.43      A16S
ATOM  20324  O4* C   A 972     220.453 118.835   5.833  1.00 64.43      A16S
ATOM  20325  C1* C   A 972     219.609 118.242   6.802  1.00 64.43      A16S
ATOM  20326  N1  C   A 972     220.215 116.976   7.233  1.00 44.34      A16S
ATOM  20327  C6  C   A 972     221.491 116.651   6.877  1.00 44.34      A16S
ATOM  20328  C2  C   A 972     219.466 116.108   8.028  1.00 44.34      A16S
ATOM  20329  O2  C   A 972     218.307 116.419   8.319  1.00 44.34      A16S
ATOM  20330  N3  C   A 972     220.019 114.951   8.457  1.00 44.34      A16S
ATOM  20331  C4  C   A 972     221.266 114.642   8.102  1.00 44.34      A16S
ATOM  20332  N4  C   A 972     221.776 113.481   8.530  1.00 44.34      A16S
ATOM  20333  C5  C   A 972     222.050 115.507   7.285  1.00 44.34      A16S
ATOM  20334  C2* C   A 972     219.529 119.205   7.979  1.00 64.43      A16S
ATOM  20335  O2* C   A 972     218.431 120.073   7.782  1.00 64.43      A16S
ATOM  20336  C3* C   A 972     220.856 119.933   7.854  1.00 64.43      A16S
ATOM  20337  O3* C   A 972     220.851 121.171   8.538  1.00 64.43      A16S
ATOM  20338  P   G   A 973     221.341 121.220  10.069  1.00 53.62      A16S
ATOM  20339  O1P G   A 973     221.607 122.673  10.305  1.00 40.15      A16S
ATOM  20340  O2P G   A 973     222.409 120.210  10.338  1.00 40.15      A16S
ATOM  20341  O5* G   A 973     220.087 120.694  10.901  1.00 53.62      A16S
ATOM  20342  C5* G   A 973     218.984 121.561  11.209  1.00 53.62      A16S
ATOM  20343  C4* G   A 973     218.167 120.971  12.323  1.00 53.62      A16S
ATOM  20344  O4* G   A 973     217.683 119.683  11.884  1.00 53.62      A16S
ATOM  20345  C1* G   A 973     217.664 118.779  12.969  1.00 53.62      A16S
ATOM  20346  N9  G   A 973     218.559 117.668  12.657  1.00 40.15      A16S
ATOM  20347  C4  G   A 973     218.430 116.360  13.066  1.00 40.15      A16S
ATOM  20348  N3  G   A 973     217.421 115.853  13.792  1.00 40.15      A16S
ATOM  20349  C2  G   A 973     217.619 114.567  14.072  1.00 40.15      A16S
ATOM  20350  N2  G   A 973     216.722 113.882  14.785  1.00 40.15      A16S
ATOM  20351  N1  G   A 973     218.708 113.851  13.674  1.00 40.15      A16S
ATOM  20352  C6  G   A 973     219.750 114.350  12.923  1.00 40.15      A16S
ATOM  20353  O6  G   A 973     220.682 113.615  12.628  1.00 40.15      A16S
ATOM  20354  C5  G   A 973     219.559 115.717  12.605  1.00 40.15      A16S
ATOM  20355  N7  G   A 973     220.357 116.585  11.879  1.00 40.15      A16S
ATOM  20356  C8  G   A 973     219.723 117.729  11.930  1.00 40.15      A16S
ATOM  20357  C2* G   A 973     218.110 119.551  14.211  1.00 53.62      A16S
ATOM  20358  O2* G   A 973     216.972 120.043  14.881  1.00 53.62      A16S
ATOM  20359  C3* G   A 973     218.930 120.677  13.603  1.00 53.62      A16S
ATOM  20360  O3* G   A 973     219.012 121.841  14.439  1.00 53.62      A16S
ATOM  20361  P   A   A 974     219.818 121.787  15.845  1.00 68.11      A16S
ATOM  20362  O1P A   A 974     219.979 120.373  16.297  1.00 41.13      A16S
ATOM  20363  O2P A   A 974     219.121 122.750  16.719  1.00 41.13      A16S
ATOM  20364  O5* A   A 974     221.264 122.395  15.551  1.00 68.11      A16S
ATOM  20365  C5* A   A 974     221.946 122.131  14.315  1.00 68.11      A16S
ATOM  20366  C4* A   A 974     223.275 121.453  14.566  1.00 68.11      A16S
ATOM  20367  O4* A   A 974     223.085 120.247  15.357  1.00 68.11      A16S
ATOM  20368  C1* A   A 974     223.596 119.129  14.657  1.00 68.11      A16S
ATOM  20369  N9  A   A 974     222.732 117.977  14.929  1.00 41.13      A16S
ATOM  20370  C4  A   A 974     223.088 116.645  14.951  1.00 41.13      A16S
ATOM  20371  N3  A   A 974     224.292 116.110  14.694  1.00 41.13      A16S
ATOM  20372  C2  A   A 974     224.268 114.783  14.862  1.00 41.13      A16S
ATOM  20373  N1  A   A 974     223.256 113.992  15.229  1.00 41.13      A16S
ATOM  20374  C6  A   A 974     222.054 114.564  15.472  1.00 41.13      A16S
ATOM  20375  N6  A   A 974     221.030 113.787  15.845  1.00 41.13      A16S
ATOM  20376  C5  A   A 974     221.948 115.957  15.324  1.00 41.13      A16S
ATOM  20377  N7  A   A 974     220.885 116.825  15.500  1.00 41.13      A16S
ATOM  20378  C8  A   A 974     221.399 118.006  15.245  1.00 41.13      A16S
ATOM  20379  C2* A   A 974     223.652 119.539  13.185  1.00 68.11      A16S
ATOM  20380  O2* A   A 974     224.631 118.785  12.491  1.00 68.11      A16S
ATOM  20381  C3* A   A 974     223.990 121.026  13.289  1.00 68.11      A16S
ATOM  20382  O3* A   A 974     225.391 121.169  13.468  1.00 68.11      A16S
ATOM  20383  P   A   A 975     226.136 122.501  12.971  1.00 71.68      A16S
ATOM  20384  O1P A   A 975     225.329 123.188  11.923  1.00 41.91      A16S
ATOM  20385  O2P A   A 975     227.531 122.070  12.676  1.00 41.91      A16S
ATOM  20386  O5* A   A 975     226.148 123.428  14.267  1.00 71.68      A16S
ATOM  20387  C5* A   A 975     226.615 124.791  14.219  1.00 71.68      A16S
ATOM  20388  C4* A   A 975     226.312 125.497  15.531  1.00 71.68      A16S
ATOM  20389  O4* A   A 975     226.670 126.893  15.409  1.00 71.68      A16S
ATOM  20390  C1* A   A 975     225.522 127.697  15.525  1.00 71.68      A16S
ATOM  20391  N9  A   A 975     225.129 127.989  14.162  1.00 41.91      A16S
ATOM  20392  C4  A   A 975     224.786 129.195  13.632  1.00 41.91      A16S
ATOM  20393  N3  A   A 975     224.670 130.356  14.281  1.00 41.91      A16S
ATOM  20394  C2  A   A 975     224.377 131.329  13.423  1.00 41.91      A16S
ATOM  20395  N1  A   A 975     224.203 131.263  12.085  1.00 41.91      A16S
ATOM  20396  C6  A   A 975     224.330 130.070  11.474  1.00 41.91      A16S
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ATOM  20397  N6   A   A 975     224.179 130.001  10.155  1.00 41.91      A16S
ATOM  20398  C5   A   A 975     224.626 128.975  12.268  1.00 41.91      A16S
ATOM  20399  N7   A   A 975     224.817 127.643  11.959  1.00 41.91      A16S
ATOM  20400  C8   A   A 975     225.099 127.098  13.116  1.00 41.91      A16S
ATOM  20401  C2*  A   A 975     224.502 126.893  16.320  1.00 71.68      A16S
ATOM  20402  O2*  A   A 975     224.663 127.134  17.691  1.00 71.68      A16S
ATOM  20403  C3*  A   A 975     224.839 125.471  15.897  1.00 71.68      A16S
ATOM  20404  O3*  A   A 975     224.555 124.435  16.846  1.00 71.68      A16S
ATOM  20405  P    G   A 976     225.380 124.332  18.227  1.00 49.36      A16S
ATOM  20406  O1P  G   A 976     224.495 123.744  19.253  1.00 84.02      A16S
ATOM  20407  O2P  G   A 976     226.082 125.600  18.512  1.00 84.02      A16S
ATOM  20408  O5*  G   A 976     226.482 123.234  17.913  1.00 49.36      A16S
ATOM  20409  C5*  G   A 976     227.724 123.631  17.327  1.00 49.36      A16S
ATOM  20410  C4*  G   A 976     228.627 122.448  17.140  1.00 49.36      A16S
ATOM  20411  O4*  G   A 976     229.880 122.944  16.603  1.00 49.36      A16S
ATOM  20412  C1*  G   A 976     230.932 122.710  17.517  1.00 49.36      A16S
ATOM  20413  N9   G   A 976     231.744 123.924  17.547  1.00 84.02      A16S
ATOM  20414  C4   G   A 976     232.796 124.222  16.717  1.00 84.02      A16S
ATOM  20415  N3   G   A 976     233.283 123.428  15.746  1.00 84.02      A16S
ATOM  20416  C2   G   A 976     234.289 123.992  15.111  1.00 84.02      A16S
ATOM  20417  N2   G   A 976     234.875 123.341  14.111  1.00 84.02      A16S
ATOM  20418  N1   G   A 976     234.792 125.239  15.409  1.00 84.02      A16S
ATOM  20419  C6   G   A 976     234.311 126.074  16.416  1.00 84.02      A16S
ATOM  20420  O6   G   A 976     234.850 127.182  16.626  1.00 84.02      A16S
ATOM  20421  C5   G   A 976     233.216 125.481  17.094  1.00 84.02      A16S
ATOM  20422  N7   G   A 976     232.448 125.961  18.140  1.00 84.02      A16S
ATOM  20423  C8   G   A 976     231.596 125.003  18.382  1.00 84.02      A16S
ATOM  20424  C2*  G   A 976     230.288 122.341  18.858  1.00 49.36      A16S
ATOM  20425  O2*  G   A 976     231.106 121.457  19.603  1.00 49.36      A16S
ATOM  20426  C3*  G   A 976     228.967 121.708  18.419  1.00 49.36      A16S
ATOM  20427  O3*  G   A 976     229.138 120.345  18.096  1.00 49.36      A16S
ATOM  20428  P    A   A 977     228.682 119.224  19.138  1.00 50.72      A16S
ATOM  20429  O1P  A   A 977     227.198 119.163  19.080  1.00102.73      A16S
ATOM  20430  O2P  A   A 977     229.359 119.461  20.443  1.00102.73      A16S
ATOM  20431  O5*  A   A 977     229.257 117.878  18.521  1.00 50.72      A16S
ATOM  20432  C5*  A   A 977     230.587 117.441  18.814  1.00 50.72      A16S
ATOM  20433  C4*  A   A 977     230.528 116.210  19.662  1.00 50.72      A16S
ATOM  20434  O4*  A   A 977     229.652 115.237  19.048  1.00 50.72      A16S
ATOM  20435  C1*  A   A 977     230.103 113.937  19.363  1.00 50.72      A16S
ATOM  20436  N9   A   A 977     230.171 113.143  18.136  1.00102.73      A16S
ATOM  20437  C4   A   A 977     231.225 113.017  17.258  1.00102.73      A16S
ATOM  20438  N3   A   A 977     232.418 113.634  17.315  1.00102.73      A16S
ATOM  20439  C2   A   A 977     233.195 113.247  16.308  1.00102.73      A16S
ATOM  20440  N1   A   A 977     232.939 112.377  15.326  1.00102.73      A16S
ATOM  20441  C6   A   A 977     231.732 111.776  15.298  1.00102.73      A16S
ATOM  20442  N6   A   A 977     231.477 110.902  14.325  1.00102.73      A16S
ATOM  20443  C5   A   A 977     230.812 112.107  16.305  1.00102.73      A16S
ATOM  20444  N7   A   A 977     229.514 111.689  16.555  1.00102.73      A16S
ATOM  20445  C8   A   A 977     229.180 112.336  17.643  1.00102.73      A16S
ATOM  20446  C2*  A   A 977     231.399 114.059  20.169  1.00 50.72      A16S
ATOM  20447  O2*  A   A 977     231.089 113.855  21.529  1.00 50.72      A16S
ATOM  20448  C3*  A   A 977     231.843 115.491  19.865  1.00 50.72      A16S
ATOM  20449  O3*  A   A 977     232.536 116.092  20.957  1.00 50.72      A16S
ATOM  20450  P    A   A 978     234.128 116.312  20.890  1.00 42.86      A16S
ATOM  20451  O1P  A   A 978     234.398 117.497  21.751  1.00 69.74      A16S
ATOM  20452  O2P  A   A 978     234.572 116.329  19.473  1.00 69.74      A16S
ATOM  20453  O5*  A   A 978     234.729 115.007  21.580  1.00 42.86      A16S
ATOM  20454  C5*  A   A 978     234.628 113.739  20.942  1.00 42.86      A16S
ATOM  20455  C4*  A   A 978     235.512 112.738  21.632  1.00 42.86      A16S
ATOM  20456  O4*  A   A 978     236.850 113.273  21.682  1.00 42.86      A16S
ATOM  20457  C1*  A   A 978     237.478 112.899  22.896  1.00 42.86      A16S
ATOM  20458  N9   A   A 978     237.881 114.128  23.577  1.00 69.74      A16S
ATOM  20459  C4   A   A 978     239.046 114.339  24.273  1.00 69.74      A16S
ATOM  20460  N3   A   A 978     240.020 113.448  24.531  1.00 69.74      A16S
ATOM  20461  C2   A   A 978     241.012 114.022  25.203  1.00 69.74      A16S
ATOM  20462  N1   A   A 978     241.140 115.292  25.602  1.00 69.74      A16S
ATOM  20463  C6   A   A 978     240.149 116.162  25.315  1.00 69.74      A16S
ATOM  20464  N6   A   A 978     240.288 117.438  25.682  1.00 69.74      A16S
ATOM  20465  C5   A   A 978     239.030 115.673  24.630  1.00 69.74      A16S
ATOM  20466  N7   A   A 978     237.854 116.278  24.213  1.00 69.74      A16S
ATOM  20467  C8   A   A 978     237.206 115.321  23.605  1.00 69.74      A16S
ATOM  20468  C2*  A   A 978     236.513 112.004  23.667  1.00 42.86      A16S
ATOM  20469  O2*  A   A 978     236.862 110.667  23.388  1.00 42.86      A16S
ATOM  20470  C3*  A   A 978     235.167 112.420  23.075  1.00 42.86      A16S
ATOM  20471  O3*  A   A 978     234.190 111.384  23.133  1.00 42.86      A16S
ATOM  20472  P    C   A 979     232.779 111.677  23.825  1.00111.55      A16S
ATOM  20473  O1P  C   A 979     231.832 110.594  23.477  1.00 43.75      A16S
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ATOM  20474  O2P C   A 979     232.451 113.087  23.502  1.00 43.75      A16S
ATOM  20475  O5* C   A 979     233.093 111.558  25.376  1.00111.55      A16S
ATOM  20476  C5* C   A 979     233.570 110.322  25.923  1.00111.55      A16S
ATOM  20477  C4* C   A 979     233.723 110.439  27.415  1.00111.55      A16S
ATOM  20478  O4* C   A 979     234.787 111.378  27.722  1.00111.55      A16S
ATOM  20479  C1* C   A 979     234.462 112.103  28.897  1.00111.55      A16S
ATOM  20480  N1   C   A 979     234.319 113.532  28.547  1.00 43.75      A16S
ATOM  20481  C6   C   A 979     234.382 113.951  27.252  1.00 43.75      A16S
ATOM  20482  C2   C   A 979     234.100 114.461  29.575  1.00 43.75      A16S
ATOM  20483  O2   C   A 979     234.069 114.059  30.756  1.00 43.75      A16S
ATOM  20484  N3   C   A 979     233.932 115.768  29.266  1.00 43.75      A16S
ATOM  20485  C4   C   A 979     233.986 116.160  27.998  1.00 43.75      A16S
ATOM  20486  N4   C   A 979     233.809 117.458  27.736  1.00 43.75      A16S
ATOM  20487  C5   C   A 979     234.222 115.243  26.936  1.00 43.75      A16S
ATOM  20488  C2* C   A 979     233.145 111.536  29.426  1.00111.55      A16S
ATOM  20489  O2* C   A 979     233.400 110.519  30.379  1.00111.55      A16S
ATOM  20490  C3* C   A 979     232.520 110.999  28.149  1.00111.55      A16S
ATOM  20491  O3* C   A 979     231.503 110.045  28.388  1.00111.55      A16S
ATOM  20492  P    C   A 980     229.987 110.409  28.000  1.00 89.21      A16S
ATOM  20493  O1P C   A 980     229.095 109.668  28.945  1.00106.85      A16S
ATOM  20494  O2P C   A 980     229.846 110.192  26.530  1.00106.85      A16S
ATOM  20495  O5* C   A 980     229.865 111.977  28.304  1.00 89.21      A16S
ATOM  20496  C5* C   A 980     229.938 112.468  29.663  1.00 89.21      A16S
ATOM  20497  C4* C   A 980     229.620 113.951  29.745  1.00 89.21      A16S
ATOM  20498  O4* C   A 980     230.661 114.755  29.134  1.00 89.21      A16S
ATOM  20499  C1* C   A 980     230.115 116.000  28.730  1.00 89.21      A16S
ATOM  20500  N1   C   A 980     230.448 116.249  27.317  1.00106.85      A16S
ATOM  20501  C6   C   A 980     230.645 115.212  26.450  1.00106.85      A16S
ATOM  20502  C2   C   A 980     230.561 117.580  26.866  1.00106.85      A16S
ATOM  20503  O2   C   A 980     230.371 118.510  27.659  1.00106.85      A16S
ATOM  20504  N3   C   A 980     230.873 117.815  25.578  1.00106.85      A16S
ATOM  20505  C4   C   A 980     231.069 116.794  24.744  1.00106.85      A16S
ATOM  20506  N4   C   A 980     231.386 117.077  23.480  1.00106.85      A16S
ATOM  20507  C5   C   A 980     230.952 115.437  25.168  1.00106.85      A16S
ATOM  20508  C2* C   A 980     228.610 115.960  28.989  1.00 89.21      A16S
ATOM  20509  O2* C   A 980     228.354 116.663  30.185  1.00 89.21      A16S
ATOM  20510  C3* C   A 980     228.342 114.460  29.104  1.00 89.21      A16S
ATOM  20511  O3* C   A 980     227.212 114.210  29.923  1.00 89.21      A16S
ATOM  20512  P    U   A 981     225.877 113.590  29.275  1.00 73.18      A16S
ATOM  20513  O1P U   A 981     224.779 113.929  30.215  1.00 63.16      A16S
ATOM  20514  O2P U   A 981     226.133 112.163  28.939  1.00 63.16      A16S
ATOM  20515  O5* U   A 981     225.649 114.452  27.954  1.00 73.18      A16S
ATOM  20516  C5* U   A 981     225.233 115.822  28.058  1.00 73.18      A16S
ATOM  20517  C4* U   A 981     225.329 116.518  26.726  1.00 73.18      A16S
ATOM  20518  O4* U   A 981     226.706 116.496  26.275  1.00 73.18      A16S
ATOM  20519  C1* U   A 981     226.751 116.337  24.868  1.00 73.18      A16S
ATOM  20520  N1   U   A 981     227.432 115.063  24.567  1.00 63.16      A16S
ATOM  20521  C6   U   A 981     227.432 114.022  25.471  1.00 63.16      A16S
ATOM  20522  C2   U   A 981     228.074 114.934  23.341  1.00 63.16      A16S
ATOM  20523  O2   U   A 981     228.092 115.827  22.500  1.00 63.16      A16S
ATOM  20524  N3   U   A 981     228.687 113.717  23.131  1.00 63.16      A16S
ATOM  20525  C4   U   A 981     228.721 112.639  23.996  1.00 63.16      A16S
ATOM  20526  O4   U   A 981     229.307 111.603  23.666  1.00 63.16      A16S
ATOM  20527  C5   U   A 981     228.037 112.851  25.233  1.00 63.16      A16S
ATOM  20528  C2* U   A 981     225.308 116.372  24.364  1.00 73.18      A16S
ATOM  20529  O2* U   A 981     224.964 117.701  24.024  1.00 73.18      A16S
ATOM  20530  C3* U   A 981     224.545 115.891  25.589  1.00 73.18      A16S
ATOM  20531  O3* U   A 981     223.180 116.300  25.570  1.00 73.18      A16S
ATOM  20532  P    U   A 982     222.060 115.277  25.027  1.00 58.91      A16S
ATOM  20533  O1P U   A 982     222.248 115.158  23.566  1.00 52.21      A16S
ATOM  20534  O2P U   A 982     220.748 115.710  25.556  1.00 52.21      A16S
ATOM  20535  O5* U   A 982     222.480 113.881  25.671  1.00 58.91      A16S
ATOM  20536  C5* U   A 982     221.528 112.832  25.818  1.00 58.91      A16S
ATOM  20537  C4* U   A 982     222.195 111.499  25.650  1.00 58.91      A16S
ATOM  20538  O4* U   A 982     222.766 111.426  24.323  1.00 58.91      A16S
ATOM  20539  C1* U   A 982     224.123 111.048  24.411  1.00 58.91      A16S
ATOM  20540  N1   U   A 982     224.868 111.724  23.342  1.00 52.21      A16S
ATOM  20541  C6   U   A 982     224.603 113.028  22.994  1.00 52.21      A16S
ATOM  20542  C2   U   A 982     225.838 110.992  22.686  1.00 52.21      A16S
ATOM  20543  O2   U   A 982     226.123 109.845  22.986  1.00 52.21      A16S
ATOM  20544  N3   U   A 982     226.461 111.651  21.665  1.00 52.21      A16S
ATOM  20545  C4   U   A 982     226.220 112.938  21.242  1.00 52.21      A16S
ATOM  20546  O4   U   A 982     226.754 113.336  20.206  1.00 52.21      A16S
ATOM  20547  C5   U   A 982     225.229 113.643  21.996  1.00 52.21      A16S
ATOM  20548  C2* U   A 982     224.586 111.406  25.819  1.00 58.91      A16S
ATOM  20549  O2* U   A 982     225.635 110.535  26.197  1.00 58.91      A16S
ATOM  20550  C3* U   A 982     223.318 111.157  26.624  1.00 58.91      A16S
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ATOM  20551  O3* U   A 982     223.252 109.771  26.901  1.00 58.91       A16S
ATOM  20552  P    A   A 983     222.191 109.236  27.971  1.00 61.63       A16S
ATOM  20553  O1P A   A 983     221.969 110.342  28.956  1.00 54.79       A16S
ATOM  20554  O2P A   A 983     222.646 107.890  28.442  1.00 54.79       A16S
ATOM  20555  O5* A   A 983     220.852 109.075  27.126  1.00 61.63       A16S
ATOM  20556  C5* A   A 983     220.665 107.947  26.258  1.00 61.63       A16S
ATOM  20557  C4* A   A 983     219.480 108.180  25.363  1.00 61.63       A16S
ATOM  20558  O4* A   A 983     219.606 109.487  24.755  1.00 61.63       A16S
ATOM  20559  C1* A   A 983     219.100 109.443  23.440  1.00 61.63       A16S
ATOM  20560  N9   A   A 983     220.128 109.966  22.537  1.00 54.79       A16S
ATOM  20561  C4   A   A 983     221.275 109.342  22.114  1.00 54.79       A16S
ATOM  20562  N3   A   A 983     221.693 108.108  22.429  1.00 54.79       A16S
ATOM  20563  C2   A   A 983     222.845 107.846  21.838  1.00 54.79       A16S
ATOM  20564  N1   A   A 983     223.573 108.615  21.028  1.00 54.79       A16S
ATOM  20565  C6   A   A 983     223.121 109.848  20.729  1.00 54.79       A16S
ATOM  20566  N6   A   A 983     223.849 110.615  19.910  1.00 54.79       A16S
ATOM  20567  C5   A   A 983     221.914 110.247  21.295  1.00 54.79       A16S
ATOM  20568  N7   A   A 983     221.189 111.420  21.198  1.00 54.79       A16S
ATOM  20569  C8   A   A 983     220.139 111.202  21.947  1.00 54.79       A16S
ATOM  20570  C2* A   A 983     218.608 108.019  23.158  1.00 61.63       A16S
ATOM  20571  O2* A   A 983     217.218 107.973  23.357  1.00 61.63       A16S
ATOM  20572  C3* A   A 983     219.340 107.199  24.214  1.00 61.63       A16S
ATOM  20573  O3* A   A 983     218.534 106.095  24.609  1.00 61.63       A16S
ATOM  20574  P    C   A 984     219.226 104.737  25.107  1.00 71.82       A16S
ATOM  20575  O1P C   A 984     218.190 103.679  25.179  1.00107.23       A16S
ATOM  20576  O2P C   A 984     220.023 105.056  26.310  1.00107.23       A16S
ATOM  20577  O5* C   A 984     220.239 104.367  23.938  1.00 71.82       A16S
ATOM  20578  C5* C   A 984     219.761 103.905  22.659  1.00 71.82       A16S
ATOM  20579  C4* C   A 984     220.869 103.196  21.918  1.00 71.82       A16S
ATOM  20580  O4* C   A 984     221.884 104.154  21.550  1.00 71.82       A16S
ATOM  20581  C1* C   A 984     223.164 103.569  21.699  1.00 71.82       A16S
ATOM  20582  N1   C   A 984     223.930 104.382  22.656  1.00107.23       A16S
ATOM  20583  C6   C   A 984     223.293 105.235  23.513  1.00107.23       A16S
ATOM  20584  C2   C   A 984     225.325 104.280  22.669  1.00107.23       A16S
ATOM  20585  O2   C   A 984     225.879 103.485  21.893  1.00107.23       A16S
ATOM  20586  N3   C   A 984     226.031 105.048  23.526  1.00107.23       A16S
ATOM  20587  C4   C   A 984     225.397 105.890  24.347  1.00107.23       A16S
ATOM  20588  N4   C   A 984     226.134 106.645  25.168  1.00107.23       A16S
ATOM  20589  C5   C   A 984     223.979 106.001  24.362  1.00107.23       A16S
ATOM  20590  C2* C   A 984     222.979 102.115  22.133  1.00 71.82       A16S
ATOM  20591  O2* C   A 984     223.032 101.259  21.013  1.00 71.82       A16S
ATOM  20592  C3* C   A 984     221.595 102.156  22.748  1.00 71.82       A16S
ATOM  20593  O3* C   A 984     220.954 100.907  22.662  1.00 71.82       A16S
ATOM  20594  P    C   A 985     220.922  99.963  23.947  1.00 58.99       A16S
ATOM  20595  O1P C   A 985     219.980  98.833  23.704  1.00 77.36       A16S
ATOM  20596  O2P C   A 985     220.710 100.868  25.117  1.00 77.36       A16S
ATOM  20597  O5* C   A 985     222.402  99.392  24.016  1.00 58.99       A16S
ATOM  20598  C5* C   A 985     222.881  98.516  22.995  1.00 58.99       A16S
ATOM  20599  C4* C   A 985     224.348  98.262  23.176  1.00 58.99       A16S
ATOM  20600  O4* C   A 985     225.087  99.491  22.972  1.00 58.99       A16S
ATOM  20601  C1* C   A 985     226.205  99.516  23.836  1.00 58.99       A16S
ATOM  20602  N1   C   A 985     226.125 100.735  24.662  1.00 77.36       A16S
ATOM  20603  C6   C   A 985     225.007 101.524  24.648  1.00 77.36       A16S
ATOM  20604  C2   C   A 985     227.224 101.084  25.456  1.00 77.36       A16S
ATOM  20605  O2   C   A 985     228.218 100.351  25.456  1.00 77.36       A16S
ATOM  20606  N3   C   A 985     227.174 102.211  26.199  1.00 77.36       A16S
ATOM  20607  C4   C   A 985     226.084 102.978  26.171  1.00 77.36       A16S
ATOM  20608  N4   C   A 985     226.082 104.085  26.915  1.00 77.36       A16S
ATOM  20609  C5   C   A 985     224.945 102.644  25.377  1.00 77.36       A16S
ATOM  20610  C2* C   A 985     226.209  98.211  24.637  1.00 58.99       A16S
ATOM  20611  O2* C   A 985     227.035  97.262  23.995  1.00 58.99       A16S
ATOM  20612  C3* C   A 985     224.751  97.798  24.557  1.00 58.99       A16S
ATOM  20613  O3* C   A 985     224.587  96.403  24.683  1.00 58.99       A16S
ATOM  20614  P    A   A 986     224.260  95.784  26.123  1.00 83.26       A16S
ATOM  20615  O1P A   A 986     223.657  94.434  25.934  1.00 62.61       A16S
ATOM  20616  O2P A   A 986     223.521  96.825  26.883  1.00 62.61       A16S
ATOM  20617  O5* A   A 986     225.691  95.611  26.794  1.00 83.26       A16S
ATOM  20618  C5* A   A 986     226.577  94.573  26.358  1.00 83.26       A16S
ATOM  20619  C4* A   A 986     227.882  94.662  27.100  1.00 83.26       A16S
ATOM  20620  O4* A   A 986     228.487  95.946  26.816  1.00 83.26       A16S
ATOM  20621  C1* A   A 986     229.136  96.438  27.972  1.00 83.26       A16S
ATOM  20622  N9   A   A 986     228.501  97.707  28.330  1.00 62.61       A16S
ATOM  20623  C4   A   A 986     229.044  98.708  29.099  1.00 62.61       A16S
ATOM  20624  N3   A   A 986     230.241  98.712  29.703  1.00 62.61       A16S
ATOM  20625  C2   A   A 986     230.444  99.868  30.327  1.00 62.61       A16S
ATOM  20626  N1   A   A 986     229.648 100.941  30.408  1.00 62.61       A16S
ATOM  20627  C6   A   A 986     228.454 100.904  29.790  1.00 62.61       A16S
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ATOM  20628  N6  A   A 986     227.669 101.977  29.862  1.00 62.61       A16S
ATOM  20629  C5  A   A 986     228.114  99.732  29.098  1.00 62.61       A16S
ATOM  20630  N7  A   A 986     226.990  99.374  28.367  1.00 62.61       A16S
ATOM  20631  C8  A   A 986     227.264  98.164  27.942  1.00 62.61       A16S
ATOM  20632  C2* A   A 986     229.035  95.362  29.050  1.00 83.26       A16S
ATOM  20633  O2* A   A 986     230.187  94.542  28.977  1.00 83.26       A16S
ATOM  20634  C3* A   A 986     227.781  94.618  28.615  1.00 83.26       A16S
ATOM  20635  O3* A   A 986     227.734  93.285  29.107  1.00 83.26       A16S
ATOM  20636  P   G   A 987     226.898  92.966  30.446  1.00 95.91       A16S
ATOM  20637  O1P G   A 987     226.927  91.495  30.635  1.00 63.23       A16S
ATOM  20638  O2P G   A 987     225.589  93.675  30.394  1.00 63.23       A16S
ATOM  20639  O5* G   A 987     227.762  93.643  31.602  1.00 95.91       A16S
ATOM  20640  C5* G   A 987     229.091  93.175  31.905  1.00 95.91       A16S
ATOM  20641  C4* G   A 987     229.821  94.179  32.766  1.00 95.91       A16S
ATOM  20642  O4* G   A 987     229.940  95.428  32.044  1.00 95.91       A16S
ATOM  20643  C1* G   A 987     229.888  96.510  32.949  1.00 95.91       A16S
ATOM  20644  N9  G   A 987     228.750  97.348  32.605  1.00 63.23       A16S
ATOM  20645  C4  G   A 987     228.580  98.651  32.979  1.00 63.23       A16S
ATOM  20646  N3  G   A 987     229.445  99.377  33.714  1.00 63.23       A16S
ATOM  20647  C2  G   A 987     229.002 100.599  33.925  1.00 63.23       A16S
ATOM  20648  N2  G   A 987     229.736 101.446  34.647  1.00 63.23       A16S
ATOM  20649  N1  G   A 987     227.807 101.078  33.445  1.00 63.23       A16S
ATOM  20650  C6  G   A 987     226.901 100.347  32.684  1.00 63.23       A16S
ATOM  20651  O6  G   A 987     225.845 100.876  32.299  1.00 63.23       A16S
ATOM  20652  C5  G   A 987     227.362  99.029  32.457  1.00 63.23       A16S
ATOM  20653  N7  G   A 987     226.779  97.980  31.764  1.00 63.23       A16S
ATOM  20654  C8  G   A 987     227.641  97.006  31.872  1.00 63.23       A16S
ATOM  20655  C2* G   A 987     229.748  95.942  34.357  1.00 95.91       A16S
ATOM  20656  O2* G   A 987     231.026  95.893  34.951  1.00 95.91       A16S
ATOM  20657  C3* G   A 987     229.152  94.568  34.075  1.00 95.91       A16S
ATOM  20658  O3* G   A 987     229.428  93.631  35.111  1.00 95.91       A16S
ATOM  20659  P   G   A 988     228.402  93.473  36.342  1.00 98.16       A16S
ATOM  20660  O1P G   A 988     228.820  92.225  37.039  1.00 76.34       A16S
ATOM  20661  O2P G   A 988     226.998  93.607  35.855  1.00 76.34       A16S
ATOM  20662  O5* G   A 988     228.725  94.733  37.263  1.00 98.16       A16S
ATOM  20663  C5* G   A 988     229.981  94.833  37.955  1.00 98.16       A16S
ATOM  20664  C4* G   A 988     230.079  96.148  38.687  1.00 98.16       A16S
ATOM  20665  O4* G   A 988     230.143  97.237  37.734  1.00 98.16       A16S
ATOM  20666  C1* G   A 988     229.493  98.380  38.269  1.00 98.16       A16S
ATOM  20667  N9  G   A 988     228.360  98.728  37.414  1.00 76.34       A16S
ATOM  20668  C4  G   A 988     227.715  99.939  37.382  1.00 76.34       A16S
ATOM  20669  N3  G   A 988     228.018 101.015  38.138  1.00 76.34       A16S
ATOM  20670  C2  G   A 988     227.216 102.032  37.886  1.00 76.34       A16S
ATOM  20671  N2  G   A 988     227.371 103.185  38.550  1.00 76.34       A16S
ATOM  20672  N1  G   A 988     226.203 101.995  36.962  1.00 76.34       A16S
ATOM  20673  C6  G   A 988     225.877 100.896  36.174  1.00 76.34       A16S
ATOM  20674  O6  G   A 988     224.943 100.969  35.370  1.00 76.34       A16S
ATOM  20675  C5  G   A 988     226.721  99.801  36.438  1.00 76.34       A16S
ATOM  20676  N7  G   A 988     226.733  98.527  35.889  1.00 76.34       A16S
ATOM  20677  C8  G   A 988     227.719  97.925  36.496  1.00 76.34       A16S
ATOM  20678  C2* G   A 988     229.018  98.025  39.675  1.00 98.16       A16S
ATOM  20679  O2* G   A 988     229.976  98.447  40.627  1.00 98.16       A16S
ATOM  20680  C3* G   A 988     228.905  96.512  39.579  1.00 98.16       A16S
ATOM  20681  O3* G   A 988     228.950  95.901  40.855  1.00 98.16       A16S
ATOM  20682  P   C   A 989     227.574  95.606  41.629  1.00106.15       A16S
ATOM  20683  O1P C   A 989     227.968  95.096  42.964  1.00 88.71       A16S
ATOM  20684  O2P C   A 989     226.710  94.772  40.753  1.00 88.71       A16S
ATOM  20685  O5* C   A 989     226.900  97.044  41.804  1.00106.15       A16S
ATOM  20686  C5* C   A 989     227.417  97.972  42.773  1.00106.15       A16S
ATOM  20687  C4* C   A 989     226.635  99.268  42.770  1.00106.15       A16S
ATOM  20688  O4* C   A 989     226.710  99.889  41.460  1.00106.15       A16S
ATOM  20689  C1* C   A 989     225.587 100.741  41.280  1.00106.15       A16S
ATOM  20690  N1  C   A 989     224.844 100.359  40.069  1.00 88.71       A16S
ATOM  20691  C6  C   A 989     224.694  99.049  39.702  1.00 88.71       A16S
ATOM  20692  C2  C   A 989     224.261 101.371  39.315  1.00 88.71       A16S
ATOM  20693  O2  C   A 989     224.442 102.544  39.656  1.00 88.71       A16S
ATOM  20694  N3  C   A 989     223.522 101.052  38.235  1.00 88.71       A16S
ATOM  20695  C4  C   A 989     223.364  99.775  37.892  1.00 88.71       A16S
ATOM  20696  N4  C   A 989     222.621  99.506  36.819  1.00 88.71       A16S
ATOM  20697  C5  C   A 989     223.964  98.715  38.632  1.00 88.71       A16S
ATOM  20698  C2* C   A 989     224.683 100.590  42.499  1.00106.15       A16S
ATOM  20699  O2* C   A 989     224.887 101.687  43.368  1.00106.15       A16S
ATOM  20700  C3* C   A 989     225.139  99.246  43.061  1.00106.15       A16S
ATOM  20701  O3* C   A 989     224.794  99.137  44.438  1.00106.15       A16S
ATOM  20702  P   C   A 990     223.264  98.826  44.844  1.00 96.48       A16S
ATOM  20703  O1P C   A 990     223.235  98.616  46.309  1.00 94.22       A16S
ATOM  20704  O2P C   A 990     222.740  97.766  43.948  1.00 94.22       A16S
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ATOM  20705  O5*  C   A 990     222.492 100.185  44.523  1.00 96.48      A16S
ATOM  20706  C5*  C   A 990     222.863 101.408  45.186  1.00 96.48      A16S
ATOM  20707  C4*  C   A 990     221.863 102.500  44.897  1.00 96.48      A16S
ATOM  20708  O4*  C   A 990     221.938 102.903  43.505  1.00 96.48      A16S
ATOM  20709  C1*  C   A 990     220.642 103.277  43.048  1.00 96.48      A16S
ATOM  20710  N1   C   A 990     220.249 102.389  41.927  1.00 94.22      A16S
ATOM  20711  C6   C   A 990     220.842 101.167  41.760  1.00 94.22      A16S
ATOM  20712  C2   C   A 990     219.240 102.814  41.033  1.00 94.22      A16S
ATOM  20713  O2   C   A 990     218.711 103.929  41.194  1.00 94.22      A16S
ATOM  20714  N3   C   A 990     218.870 101.993  40.023  1.00 94.22      A16S
ATOM  20715  C4   C   A 990     219.454 100.799  39.881  1.00 94.22      A16S
ATOM  20716  N4   C   A 990     219.048 100.015  38.878  1.00 94.22      A16S
ATOM  20717  C5   C   A 990     220.479 100.350  40.764  1.00 94.22      A16S
ATOM  20718  C2*  C   A 990     219.681 103.158  44.234  1.00 96.48      A16S
ATOM  20719  O2*  C   A 990     219.527 104.413  44.874  1.00 96.48      A16S
ATOM  20720  C3*  C   A 990     220.401 102.141  45.109  1.00 96.48      A16S
ATOM  20721  O3*  C   A 990     219.998 102.235  46.465  1.00 96.48      A16S
ATOM  20722  P    U   A 991     218.982 101.146  47.063  1.00151.81      A16S
ATOM  20723  O1P  U   A 991     219.716 100.429  48.134  1.00134.60      A16S
ATOM  20724  O2P  U   A 991     218.381 100.371  45.948  1.00134.60      A16S
ATOM  20725  O5*  U   A 991     217.851 102.042  47.735  1.00151.81      A16S
ATOM  20726  C5*  U   A 991     216.453 101.810  47.470  1.00151.81      A16S
ATOM  20727  C4*  U   A 991     215.935 102.841  46.498  1.00151.81      A16S
ATOM  20728  O4*  U   A 991     216.663 102.712  45.253  1.00151.81      A16S
ATOM  20729  C1*  U   A 991     215.804 103.007  44.168  1.00151.81      A16S
ATOM  20730  N1   U   A 991     215.859 101.895  43.202  1.00134.60      A16S
ATOM  20731  C6   U   A 991     216.321 100.650  43.573  1.00134.60      A16S
ATOM  20732  C2   U   A 991     215.458 102.142  41.893  1.00134.60      A16S
ATOM  20733  O2   U   A 991     215.006 103.215  41.521  1.00134.60      A16S
ATOM  20734  N3   U   A 991     215.604 101.080  41.035  1.00134.60      A16S
ATOM  20735  C4   U   A 991     216.089  99.822  41.342  1.00134.60      A16S
ATOM  20736  O4   U   A 991     216.229  98.990  40.443  1.00134.60      A16S
ATOM  20737  C5   U   A 991     216.448  99.638  42.713  1.00134.60      A16S
ATOM  20738  C2*  U   A 991     214.426 103.369  44.729  1.00151.81      A16S
ATOM  20739  O2*  U   A 991     214.346 104.777  44.787  1.00151.81      A16S
ATOM  20740  C3*  U   A 991     214.463 102.737  46.121  1.00151.81      A16S
ATOM  20741  O3*  U   A 991     213.683 103.482  47.069  1.00151.81      A16S
ATOM  20742  P    U   A 992     212.070 103.464  47.001  1.00 97.33      A16S
ATOM  20743  O1P  U   A 992     211.601 102.700  48.186  1.00172.65      A16S
ATOM  20744  O2P  U   A 992     211.631 103.048  45.642  1.00172.65      A16S
ATOM  20745  O5*  U   A 992     211.663 104.992  47.203  1.00 97.33      A16S
ATOM  20746  C5*  U   A 992     212.447 106.034  46.604  1.00 97.33      A16S
ATOM  20747  C4*  U   A 992     211.759 107.369  46.738  1.00 97.33      A16S
ATOM  20748  O4*  U   A 992     210.545 107.371  45.955  1.00 97.33      A16S
ATOM  20749  C1*  U   A 992     209.587 108.213  46.568  1.00 97.33      A16S
ATOM  20750  N1   U   A 992     208.287 107.525  46.556  1.00172.65      A16S
ATOM  20751  C6   U   A 992     208.112 106.301  47.160  1.00172.65      A16S
ATOM  20752  C2   U   A 992     207.241 108.149  45.898  1.00172.65      A16S
ATOM  20753  O2   U   A 992     207.350 109.241  45.360  1.00172.65      A16S
ATOM  20754  N3   U   A 992     206.062 107.447  45.888  1.00172.65      A16S
ATOM  20755  C4   U   A 992     205.823 106.213  46.459  1.00172.65      A16S
ATOM  20756  O4   U   A 992     204.715 105.689  46.330  1.00172.65      A16S
ATOM  20757  C5   U   A 992     206.948 105.642  47.134  1.00172.65      A16S
ATOM  20758  C2*  U   A 992     210.124 108.689  47.924  1.00 97.33      A16S
ATOM  20759  O2*  U   A 992     210.369 110.080  47.887  1.00 97.33      A16S
ATOM  20760  C3*  U   A 992     211.330 107.764  48.141  1.00 97.33      A16S
ATOM  20761  O3*  U   A 992     212.430 108.250  48.946  1.00 97.33      A16S
ATOM  20762  P    G   A 993     213.354 109.486  48.451  1.00151.56      A16S
ATOM  20763  O1P  G   A 993     214.468 109.549  49.422  1.00 95.48      A16S
ATOM  20764  O2P  G   A 993     212.552 110.705  48.194  1.00 95.48      A16S
ATOM  20765  O5*  G   A 993     214.006 108.963  47.092  1.00151.56      A16S
ATOM  20766  C5*  G   A 993     214.221 109.837  45.958  1.00151.56      A16S
ATOM  20767  C4*  G   A 993     215.065 109.129  44.919  1.00151.56      A16S
ATOM  20768  O4*  G   A 993     214.547 107.789  44.740  1.00151.56      A16S
ATOM  20769  C1*  G   A 993     214.659 107.406  43.386  1.00151.56      A16S
ATOM  20770  N9   G   A 993     213.357 106.915  42.933  1.00 95.48      A16S
ATOM  20771  C4   G   A 993     212.149 107.589  42.926  1.00 95.48      A16S
ATOM  20772  N3   G   A 993     211.943 108.869  43.307  1.00 95.48      A16S
ATOM  20773  C2   G   A 993     210.664 109.211  43.210  1.00 95.48      A16S
ATOM  20774  N2   G   A 993     210.266 110.443  43.562  1.00 95.48      A16S
ATOM  20775  N1   G   A 993     209.677 108.370  42.767  1.00 95.48      A16S
ATOM  20776  C6   G   A 993     209.867 107.054  42.370  1.00 95.48      A16S
ATOM  20777  O6   G   A 993     208.907 106.380  41.991  1.00 95.48      A16S
ATOM  20778  C5   G   A 993     211.223 106.669  42.472  1.00 95.48      A16S
ATOM  20779  N7   G   A 993     211.832 105.457  42.179  1.00 95.48      A16S
ATOM  20780  C8   G   A 993     213.093 105.651  42.456  1.00 95.48      A16S
ATOM  20781  C2*  G   A 993     215.320 108.544  42.602  1.00151.56      A16S
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ATOM  20782  O2* G   A 993     216.674 108.203  42.396  1.00151.56      A16S
ATOM  20783  C3* G   A 993     215.090 109.743  43.524  1.00151.56      A16S
ATOM  20784  O3* G   A 993     216.013 110.850  43.413  1.00151.56      A16S
ATOM  20785  P   A   A 994     217.613 110.645  43.629  1.00 98.01      A16S
ATOM  20786  O1P A   A 994     218.238 110.023  42.431  1.00 82.70      A16S
ATOM  20787  O2P A   A 994     217.834 110.027  44.960  1.00 82.70      A16S
ATOM  20788  O5* A   A 994     218.145 112.147  43.695  1.00 98.01      A16S
ATOM  20789  C5* A   A 994     219.485 112.493  43.286  1.00 98.01      A16S
ATOM  20790  C4* A   A 994     219.457 113.300  42.001  1.00 98.01      A16S
ATOM  20791  O4* A   A 994     219.447 112.424  40.846  1.00 98.01      A16S
ATOM  20792  C1* A   A 994     218.666 113.007  39.811  1.00 98.01      A16S
ATOM  20793  N9  A   A 994     217.571 112.087  39.488  1.00 82.70      A16S
ATOM  20794  C4  A   A 994     216.371 112.418  38.905  1.00 82.70      A16S
ATOM  20795  N3  A   A 994     215.961 113.640  38.520  1.00 82.70      A16S
ATOM  20796  C2  A   A 994     214.746 113.576  37.985  1.00 82.70      A16S
ATOM  20797  N1  A   A 994     213.957 112.508  37.798  1.00 82.70      A16S
ATOM  20798  C6  A   A 994     214.403 111.296  38.191  1.00 82.70      A16S
ATOM  20799  N6  A   A 994     213.627 110.230  37.987  1.00 82.70      A16S
ATOM  20800  C5  A   A 994     215.670 111.229  38.785  1.00 82.70      A16S
ATOM  20801  N7  A   A 994     216.407 110.168  39.293  1.00 82.70      A16S
ATOM  20802  C8  A   A 994     217.523 110.724  39.693  1.00 82.70      A16S
ATOM  20803  C2* A   A 994     218.182 114.376  40.299  1.00 98.01      A16S
ATOM  20804  O2* A   A 994     219.025 115.402  39.821  1.00 98.01      A16S
ATOM  20805  C3* A   A 994     218.251 114.205  41.808  1.00 98.01      A16S
ATOM  20806  O3* A   A 994     218.377 115.433  42.496  1.00 98.01      A16S
ATOM  20807  P   C   A 995     217.277 115.823  43.594  1.00100.84      A16S
ATOM  20808  O1P C   A 995     217.872 116.833  44.508  1.00 60.70      A16S
ATOM  20809  O2P C   A 995     216.765 114.538  44.151  1.00 60.70      A16S
ATOM  20810  O5* C   A 995     216.119 116.513  42.742  1.00100.84      A16S
ATOM  20811  C5* C   A 995     216.332 117.776  42.073  1.00100.84      A16S
ATOM  20812  C4* C   A 995     215.094 118.171  41.297  1.00100.84      A16S
ATOM  20813  O4* C   A 995     214.854 117.200  40.248  1.00100.84      A16S
ATOM  20814  C1* C   A 995     213.465 116.954  40.123  1.00100.84      A16S
ATOM  20815  N1  C   A 995     213.225 115.533  40.434  1.00 60.70      A16S
ATOM  20816  C6  C   A 995     214.140 114.811  41.153  1.00 60.70      A16S
ATOM  20817  C2  C   A 995     212.050 114.920  39.970  1.00 60.70      A16S
ATOM  20818  O2  C   A 995     211.214 115.604  39.346  1.00 60.70      A16S
ATOM  20819  N3  C   A 995     211.855 113.597  40.218  1.00 60.70      A16S
ATOM  20820  C4  C   A 995     212.770 112.902  40.905  1.00 60.70      A16S
ATOM  20821  N4  C   A 995     212.549 111.600  41.116  1.00 60.70      A16S
ATOM  20822  C5  C   A 995     213.957 113.508  41.407  1.00 60.70      A16S
ATOM  20823  C2* C   A 995     212.738 117.912  41.063  1.00100.84      A16S
ATOM  20824  O2* C   A 995     212.364 119.069  40.343  1.00100.84      A16S
ATOM  20825  C3* C   A 995     213.810 118.187  42.108  1.00100.84      A16S
ATOM  20826  O3* C   A 995     213.627 119.437  42.754  1.00100.84      A16S
ATOM  20827  P   A   A 996     212.678 119.530  44.047  1.00142.31      A16S
ATOM  20828  O1P A   A 996     212.817 120.923  44.551  1.00 83.38      A16S
ATOM  20829  O2P A   A 996     212.971 118.378  44.953  1.00 83.38      A16S
ATOM  20830  O5* A   A 996     211.206 119.351  43.462  1.00142.31      A16S
ATOM  20831  C5* A   A 996     210.623 120.368  42.628  1.00142.31      A16S
ATOM  20832  C4* A   A 996     209.123 120.216  42.583  1.00142.31      A16S
ATOM  20833  O4* A   A 996     208.771 119.006  41.867  1.00142.31      A16S
ATOM  20834  C1* A   A 996     207.589 118.454  42.419  1.00142.31      A16S
ATOM  20835  N9  A   A 996     207.876 117.097  42.882  1.00 83.38      A16S
ATOM  20836  C4  A   A 996     206.968 116.068  42.960  1.00 83.38      A16S
ATOM  20837  N3  A   A 996     205.667 116.104  42.623  1.00 83.38      A16S
ATOM  20838  C2  A   A 996     205.096 114.921  42.834  1.00 83.38      A16S
ATOM  20839  N1  A   A 996     205.636 113.786  43.308  1.00 83.38      A16S
ATOM  20840  C6  A   A 996     206.946 113.779  43.633  1.00 83.38      A16S
ATOM  20841  N6  A   A 996     207.481 112.640  44.095  1.00 83.38      A16S
ATOM  20842  C5  A   A 996     207.668 114.981  43.458  1.00 83.38      A16S
ATOM  20843  N7  A   A 996     208.995 115.319  43.686  1.00 83.38      A16S
ATOM  20844  C8  A   A 996     209.066 116.579  43.329  1.00 83.38      A16S
ATOM  20845  C2* A   A 996     207.128 119.369  43.553  1.00142.31      A16S
ATOM  20846  O2* A   A 996     206.141 120.252  43.063  1.00142.31      A16S
ATOM  20847  C3* A   A 996     208.424 120.079  43.926  1.00142.31      A16S
ATOM  20848  O3* A   A 996     208.193 121.338  44.549  1.00142.31      A16S
ATOM  20849  P   U   A 997     207.958 121.405  46.141  1.00154.18      A16S
ATOM  20850  O1P U   A 997     207.753 122.837  46.482  1.00 81.19      A16S
ATOM  20851  O2P U   A 997     209.030 120.635  46.832  1.00 81.19      A16S
ATOM  20852  O5* U   A 997     206.580 120.632  46.353  1.00154.18      A16S
ATOM  20853  C5* U   A 997     205.337 121.222  45.930  1.00154.18      A16S
ATOM  20854  C4* U   A 997     204.162 120.371  46.358  1.00154.18      A16S
ATOM  20855  O4* U   A 997     204.079 119.169  45.545  1.00154.18      A16S
ATOM  20856  C1* U   A 997     203.512 118.115  46.312  1.00154.18      A16S
ATOM  20857  N1  U   A 997     204.496 117.031  46.452  1.00 81.19      A16S
ATOM  20858  C6  U   A 997     205.844 117.299  46.568  1.00 81.19      A16S
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ATOM  20859  C2  U   A 997     204.022 115.724  46.508  1.00 81.19      A16S
ATOM  20860  O2  U   A 997     202.845 115.429  46.361  1.00 81.19      A16S
ATOM  20861  N3  U   A 997     204.983 114.772  46.743  1.00 81.19      A16S
ATOM  20862  C4  U   A 997     206.338 114.979  46.911  1.00 81.19      A16S
ATOM  20863  O4  U   A 997     207.061 114.030  47.229  1.00 81.19      A16S
ATOM  20864  C5  U   A 997     206.753 116.346  46.792  1.00 81.19      A16S
ATOM  20865  C2* U   A 997     203.197 118.676  47.698  1.00154.18      A16S
ATOM  20866  O2* U   A 997     201.845 119.080  47.771  1.00154.18      A16S
ATOM  20867  C3* U   A 997     204.172 119.842  47.782  1.00154.18      A16S
ATOM  20868  O3* U   A 997     203.790 120.784  48.767  1.00154.18      A16S
ATOM  20869  P   G   A 998     204.252 120.549  50.289  1.00137.32      A16S
ATOM  20870  O1P G   A 998     203.768 121.725  51.051  1.00 96.32      A16S
ATOM  20871  O2P G   A 998     205.696 120.207  50.310  1.00 96.32      A16S
ATOM  20872  O5* G   A 998     203.447 119.247  50.742  1.00137.32      A16S
ATOM  20873  C5* G   A 998     202.009 119.267  50.806  1.00137.32      A16S
ATOM  20874  C4* G   A 998     201.447 117.888  51.094  1.00137.32      A16S
ATOM  20875  O4* G   A 998     201.801 116.962  50.033  1.00137.32      A16S
ATOM  20876  C1* G   A 998     201.819 115.640  50.547  1.00137.32      A16S
ATOM  20877  N9  G   A 998     203.140 115.059  50.344  1.00 96.32      A16S
ATOM  20878  C4  G   A 998     203.430 113.715  50.280  1.00 96.32      A16S
ATOM  20879  N3  G   A 998     202.536 112.705  50.356  1.00 96.32      A16S
ATOM  20880  C2  G   A 998     203.120 111.517  50.276  1.00 96.32      A16S
ATOM  20881  N2  G   A 998     202.379 110.399  50.327  1.00 96.32      A16S
ATOM  20882  N1  G   A 998     204.473 111.335  50.140  1.00 96.32      A16S
ATOM  20883  C6  G   A 998     205.413 112.356  50.064  1.00 96.32      A16S
ATOM  20884  O6  G   A 998     206.615 112.077  49.949  1.00 96.32      A16S
ATOM  20885  C5  G   A 998     204.798 113.642  50.139  1.00 96.32      A16S
ATOM  20886  N7  G   A 998     205.356 114.914  50.096  1.00 96.32      A16S
ATOM  20887  C8  G   A 998     204.336 115.721  50.215  1.00 96.32      A16S
ATOM  20888  C2* G   A 998     201.505 115.716  52.038  1.00137.32      A16S
ATOM  20889  O2* G   A 998     200.133 115.427  52.223  1.00137.32      A16S
ATOM  20890  C3* G   A 998     201.873 117.162  52.363  1.00137.32      A16S
ATOM  20891  O3* G   A 998     201.201 117.623  53.534  1.00137.32      A16S
ATOM  20892  P   C   A 999     201.779 117.233  54.988  1.00159.66      A16S
ATOM  20893  O1P C   A 999     201.080 118.091  55.979  1.00136.38      A16S
ATOM  20894  O2P C   A 999     203.265 117.235  54.938  1.00136.38      A16S
ATOM  20895  O5* C   A 999     201.289 115.731  55.197  1.00159.66      A16S
ATOM  20896  C5* C   A 999     199.891 115.404  55.091  1.00159.66      A16S
ATOM  20897  C4* C   A 999     199.690 113.907  55.049  1.00159.66      A16S
ATOM  20898  O4* C   A 999     200.329 113.342  53.874  1.00159.66      A16S
ATOM  20899  C1* C   A 999     200.768 112.024  54.161  1.00159.66      A16S
ATOM  20900  N1  C   A 999     202.224 111.929  53.930  1.00136.38      A16S
ATOM  20901  C6  C   A 999     203.043 113.014  54.100  1.00136.38      A16S
ATOM  20902  C2  C   A 999     202.766 110.690  53.545  1.00136.38      A16S
ATOM  20903  O2  C   A 999     202.004 109.723  53.374  1.00136.38      A16S
ATOM  20904  N3  C   A 999     204.103 110.578  53.368  1.00136.38      A16S
ATOM  20905  C4  C   A 999     204.892 111.640  53.549  1.00136.38      A16S
ATOM  20906  N4  C   A 999     206.207 111.477  53.370  1.00136.38      A16S
ATOM  20907  C5  C   A 999     204.369 112.915  53.923  1.00136.38      A16S
ATOM  20908  C2* C   A 999     200.393 111.712  55.611  1.00159.66      A16S
ATOM  20909  O2* C   A 999     199.179 110.987  55.636  1.00159.66      A16S
ATOM  20910  C3* C   A 999     200.265 113.110  56.206  1.00159.66      A16S
ATOM  20911  O3* C   A 999     199.415 113.137  57.344  1.00159.66      A16S
ATOM  20912  P   U   A1000    200.063 113.140  58.815  1.00156.63      A16S
ATOM  20913  O1P U   A1000    198.982 113.536  59.750  1.00141.71      A16S
ATOM  20914  O2P U   A1000    201.323 113.928  58.780  1.00141.71      A16S
ATOM  20915  O5* U   A1000    200.436 111.610  59.073  1.00156.63      A16S
ATOM  20916  C5* U   A1000    199.405 110.622  59.293  1.00156.63      A16S
ATOM  20917  C4* U   A1000    199.992 109.226  59.283  1.00156.63      A16S
ATOM  20918  O4* U   A1000    200.563 108.958  57.975  1.00156.63      A16S
ATOM  20919  C1* U   A1000    201.720 108.147  58.112  1.00156.63      A16S
ATOM  20920  N1  U   A1000    202.882 108.886  57.586  1.00141.71      A16S
ATOM  20921  C6  U   A1000    202.902 110.267  57.556  1.00141.71      A16S
ATOM  20922  C2  U   A1000    203.968 108.152  57.125  1.00141.71      A16S
ATOM  20923  O2  U   A1000    204.001 106.929  57.131  1.00141.71      A16S
ATOM  20924  N3  U   A1000    205.018 108.905  56.658  1.00141.71      A16S
ATOM  20925  C4  U   A1000    205.098 110.284  56.605  1.00141.71      A16S
ATOM  20926  O4  U   A1000    206.116 110.816  56.160  1.00141.71      A16S
ATOM  20927  C5  U   A1000    203.943 110.967  57.096  1.00141.71      A16S
ATOM  20928  C2* U   A1000    201.873 107.801  59.595  1.00156.63      A16S
ATOM  20929  O2* U   A1000    201.287 106.538  59.849  1.00156.63      A16S
ATOM  20930  C3* U   A1000    201.129 108.955  60.262  1.00156.63      A16S
ATOM  20931  O3* U   A1000    200.672 108.613  61.571  1.00156.63      A16S
ATOM  20932  P   A   A1001    201.585 108.967  62.854  1.00200.96      A16S
ATOM  20933  O1P A   A1001    200.854 108.483  64.053  1.00200.70      A16S
ATOM  20934  O2P A   A1001    201.986 110.396  62.770  1.00200.70      A16S
ATOM  20935  O5* A   A1001    202.894 108.071  62.674  1.00200.96      A16S
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ATOM  20936  C5* A   A1001     202.834 106.634  62.803  1.00200.96      A16S
ATOM  20937  C4* A   A1001     204.173 106.006  62.474  1.00200.96      A16S
ATOM  20938  O4* A   A1001     204.533 106.313  61.100  1.00200.96      A16S
ATOM  20939  C1* A   A1001     205.943 106.426  60.988  1.00200.96      A16S
ATOM  20940  N9  A   A1001     206.273 107.765  60.489  1.00200.70      A16S
ATOM  20941  C4  A   A1001     207.485 108.162  59.971  1.00200.70      A16S
ATOM  20942  N3  A   A1001     208.591 107.413  59.810  1.00200.70      A16S
ATOM  20943  C2  A   A1001     209.577 108.138  59.284  1.00200.70      A16S
ATOM  20944  N1  A   A1001     209.585 109.429  58.927  1.00200.70      A16S
ATOM  20945  C6  A   A1001     208.460 110.155  59.103  1.00200.70      A16S
ATOM  20946  N6  A   A1001     208.470 111.443  58.750  1.00200.70      A16S
ATOM  20947  C5  A   A1001     207.339 109.501  59.652  1.00200.70      A16S
ATOM  20948  N7  A   A1001     206.058 109.941  59.956  1.00200.70      A16S
ATOM  20949  C8  A   A1001     205.467 108.877  60.446  1.00200.70      A16S
ATOM  20950  C2* A   A1001     206.545 106.143  62.366  1.00200.96      A16S
ATOM  20951  O2* A   A1001     206.945 104.787  62.431  1.00200.96      A16S
ATOM  20952  C3* A   A1001     205.375 106.460  63.292  1.00200.96      A16S
ATOM  20953  O3* A   A1001     205.487 105.762  64.532  1.00200.96      A16S
ATOM  20954  P   G   A1002     205.870 106.569  65.874  1.00200.96      A16S
ATOM  20955  O1P G   A1002     204.828 106.229  66.878  1.00171.19      A16S
ATOM  20956  O2P G   A1002     206.124 107.996  65.538  1.00171.19      A16S
ATOM  20957  O5* G   A1002     207.252 105.928  66.345  1.00200.96      A16S
ATOM  20958  C5* G   A1002     207.406 105.390  67.677  1.00200.96      A16S
ATOM  20959  C4* G   A1002     208.772 104.760  67.841  1.00200.96      A16S
ATOM  20960  O4* G   A1002     208.977 103.828  66.747  1.00200.96      A16S
ATOM  20961  C1* G   A1002     210.334 103.853  66.343  1.00200.96      A16S
ATOM  20962  N9  G   A1002     210.391 104.393  64.991  1.00171.19      A16S
ATOM  20963  C4  G   A1002     211.487 104.393  64.167  1.00171.19      A16S
ATOM  20964  N3  G   A1002     212.692 103.851  64.450  1.00171.19      A16S
ATOM  20965  C2  G   A1002     213.556 104.031  63.467  1.00171.19      A16S
ATOM  20966  N2  G   A1002     214.805 103.550  63.580  1.00171.19      A16S
ATOM  20967  N1  G   A1002     213.258 104.698  62.302  1.00171.19      A16S
ATOM  20968  C6  G   A1002     212.025 105.271  61.998  1.00171.19      A16S
ATOM  20969  O6  G   A1002     211.866 105.871  60.934  1.00171.19      A16S
ATOM  20970  C5  G   A1002     211.091 105.072  63.035  1.00171.19      A16S
ATOM  20971  N7  G   A1002     209.764 105.466  63.134  1.00171.19      A16S
ATOM  20972  C8  G   A1002     209.388 105.036  64.305  1.00171.19      A16S
ATOM  20973  C2* G   A1002     211.089 104.776  67.299  1.00200.96      A16S
ATOM  20974  O2* G   A1002     211.691 104.016  68.328  1.00200.96      A16S
ATOM  20975  C3* G   A1002     209.973 105.698  67.777  1.00200.96      A16S
ATOM  20976  O3* G   A1002     210.277 106.288  69.040  1.00200.96      A16S
ATOM  20977  P   G   A1003     211.097 107.674  69.100  1.00195.75      A16S
ATOM  20978  O1P G   A1003     211.346 107.978  70.533  1.00200.96      A16S
ATOM  20979  O2P G   A1003     210.402 108.676  68.248  1.00200.96      A16S
ATOM  20980  O5* G   A1003     212.496 107.332  68.417  1.00195.75      A16S
ATOM  20981  C5* G   A1003     213.399 106.365  68.998  1.00195.75      A16S
ATOM  20982  C4* G   A1003     214.645 106.245  68.151  1.00195.75      A16S
ATOM  20983  O4* G   A1003     214.261 105.839  66.813  1.00195.75      A16S
ATOM  20984  C1* G   A1003     215.055 106.520  65.857  1.00195.75      A16S
ATOM  20985  N9  G   A1003     214.167 107.329  65.025  1.00200.96      A16S
ATOM  20986  C4  G   A1003     214.243 107.483  63.663  1.00200.96      A16S
ATOM  20987  N3  G   A1003     215.164 106.917  62.855  1.00200.96      A16S
ATOM  20988  C2  G   A1003     214.973 107.240  61.589  1.00200.96      A16S
ATOM  20989  N2  G   A1003     215.801 106.754  60.651  1.00200.96      A16S
ATOM  20990  N1  G   A1003     213.958 108.059  61.149  1.00200.96      A16S
ATOM  20991  C6  G   A1003     212.999 108.654  61.964  1.00200.96      A16S
ATOM  20992  O6  G   A1003     212.126 109.377  61.465  1.00200.96      A16S
ATOM  20993  C5  G   A1003     213.192 108.314  63.327  1.00200.96      A16S
ATOM  20994  N7  G   A1003     212.475 108.683  64.456  1.00200.96      A16S
ATOM  20995  C8  G   A1003     213.088 108.080  65.439  1.00200.96      A16S
ATOM  20996  C2* G   A1003     216.098 107.346  66.612  1.00195.75      A16S
ATOM  20997  O2* G   A1003     217.307 106.620  66.698  1.00195.75      A16S
ATOM  20998  C3* G   A1003     215.415 107.546  67.960  1.00195.75      A16S
ATOM  20999  O3* G   A1003     216.341 107.763  69.021  1.00195.75      A16S
ATOM  21000  P   G   A1003A    216.455 109.220  69.697  1.00200.96      A16S
ATOM  21001  O1P G   A1003A    217.066 109.030  71.038  1.00200.65      A16S
ATOM  21002  O2P G   A1003A    215.145 109.915  69.582  1.00200.65      A16S
ATOM  21003  O5* G   A1003A    217.499 109.996  68.778  1.00200.96      A16S
ATOM  21004  C5* G   A1003A    218.878 109.577  68.702  1.00200.96      A16S
ATOM  21005  C4* G   A1003A    219.471 109.983  67.374  1.00200.96      A16S
ATOM  21006  O4* G   A1003A    218.673 109.382  66.323  1.00200.96      A16S
ATOM  21007  C1* G   A1003A    218.574 110.272  65.228  1.00200.96      A16S
ATOM  21008  N9  G   A1003A    217.161 110.544  64.975  1.00200.65      A16S
ATOM  21009  C4  G   A1003A    216.603 110.888  63.767  1.00200.65      A16S
ATOM  21010  N3  G   A1003A    217.268 111.041  62.604  1.00200.65      A16S
ATOM  21011  C2  G   A1003A    216.462 111.380  61.616  1.00200.65      A16S
ATOM  21012  N2  G   A1003A    216.965 111.578  60.394  1.00200.65      A16S
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ATOM  21013  N1  G  A1003A   215.108 111.552  61.754  1.00200.65      A16S
ATOM  21014  C6  G  A1003A   214.401 111.399  62.941  1.00200.65      A16S
ATOM  21015  O6  G  A1003A   213.177 111.579  62.956  1.00200.65      A16S
ATOM  21016  C5  G  A1003A   215.256 111.036  64.013  1.00200.65      A16S
ATOM  21017  N7  G  A1003A   214.969 110.793  65.349  1.00200.65      A16S
ATOM  21018  C8  G  A1003A   216.127 110.508  65.881  1.00200.65      A16S
ATOM  21019  C2* G  A1003A   219.401 111.519  65.552  1.00200.96      A16S
ATOM  21020  O2* G  A1003A   220.674 111.422  64.944  1.00200.96      A16S
ATOM  21021  C3* G  A1003A   219.459 111.477  67.075  1.00200.96      A16S
ATOM  21022  O3* G  A1003A   220.631 112.130  67.572  1.00200.96      A16S
ATOM  21023  P   A  A1004     220.550 113.662  68.067  1.00173.26      A16S
ATOM  21024  O1P A  A1004     221.860 114.296  67.763  1.00200.96      A16S
ATOM  21025  O2P A  A1004     220.043 113.671  69.462  1.00200.96      A16S
ATOM  21026  O5* A  A1004     219.433 114.314  67.134  1.00173.26      A16S
ATOM  21027  C5* A  A1004     219.783 115.073  65.959  1.00173.26      A16S
ATOM  21028  C4* A  A1004     219.177 114.440  64.728  1.00173.26      A16S
ATOM  21029  O4* A  A1004     217.781 114.124  64.963  1.00173.26      A16S
ATOM  21030  C1* A  A1004     217.070 114.204  63.743  1.00173.26      A16S
ATOM  21031  N9  A  A1004     215.891 115.056  63.933  1.00200.96      A16S
ATOM  21032  C4  A  A1004     214.742 114.713  64.610  1.00200.96      A16S
ATOM  21033  N3  A  A1004     214.479 113.558  65.244  1.00200.96      A16S
ATOM  21034  C2  A  A1004     213.259 113.581  65.781  1.00200.96      A16S
ATOM  21035  N1  A  A1004     212.340 114.554  65.758  1.00200.96      A16S
ATOM  21036  C6  A  A1004     212.633 115.704  65.113  1.00200.96      A16S
ATOM  21037  N6  A  A1004     211.713 116.673  65.087  1.00200.96      A16S
ATOM  21038  C5  A  A1004     213.900 115.807  64.502  1.00200.96      A16S
ATOM  21039  N7  A  A1004     214.510 116.825  63.784  1.00200.96      A16S
ATOM  21040  C8  A  A1004     215.684 116.334  63.473  1.00200.96      A16S
ATOM  21041  C2* A  A1004     218.043 114.664  62.650  1.00173.26      A16S
ATOM  21042  O2* A  A1004     218.469 113.546  61.897  1.00173.26      A16S
ATOM  21043  C3* A  A1004     219.178 115.280  63.461  1.00173.26      A16S
ATOM  21044  O3* A  A1004     220.410 115.160  62.754  1.00173.26      A16S
ATOM  21045  P   A  A1005     221.242 116.478  62.354  1.00199.14      A16S
ATOM  21046  O1P A  A1005     221.787 116.250  60.990  1.00200.96      A16S
ATOM  21047  O2P A  A1005     222.170 116.787  63.472  1.00200.96      A16S
ATOM  21048  O5* A  A1005     220.161 117.648  62.277  1.00199.14      A16S
ATOM  21049  C5* A  A1005     219.298 117.812  61.131  1.00199.14      A16S
ATOM  21050  C4* A  A1005     219.436 119.213  60.575  1.00199.14      A16S
ATOM  21051  O4* A  A1005     219.441 120.142  61.691  1.00199.14      A16S
ATOM  21052  C1* A  A1005     220.341 121.207  61.430  1.00199.14      A16S
ATOM  21053  N9  A  A1005     221.369 121.216  62.475  1.00200.96      A16S
ATOM  21054  C4  A  A1005     222.043 122.321  62.941  1.00200.96      A16S
ATOM  21055  N3  A  A1005     221.899 123.596  62.541  1.00200.96      A16S
ATOM  21056  C2  A  A1005     222.718 124.397  63.219  1.00200.96      A16S
ATOM  21057  N1  A  A1005     223.598 124.092  64.179  1.00200.96      A16S
ATOM  21058  C6  A  A1005     223.720 122.801  64.558  1.00200.96      A16S
ATOM  21059  N6  A  A1005     224.599 122.497  65.515  1.00200.96      A16S
ATOM  21060  C5  A  A1005     222.908 121.852  63.914  1.00200.96      A16S
ATOM  21061  N7  A  A1005     222.785 120.477  64.060  1.00200.96      A16S
ATOM  21062  C8  A  A1005     221.864 120.149  63.187  1.00200.96      A16S
ATOM  21063  C2* A  A1005     220.914 121.006  60.027  1.00199.14      A16S
ATOM  21064  O2* A  A1005     220.184 121.788  59.103  1.00199.14      A16S
ATOM  21065  C3* A  A1005     220.731 119.504  59.824  1.00199.14      A16S
ATOM  21066  O3* A  A1005     220.611 119.186  58.435  1.00199.14      A16S
ATOM  21067  P   C  A1006     221.871 118.580  57.631  1.00200.96      A16S
ATOM  21068  O1P C  A1006     221.646 118.875  56.192  1.00191.67      A16S
ATOM  21069  O2P C  A1006     222.073 117.173  58.065  1.00191.67      A16S
ATOM  21070  O5* C  A1006     223.124 119.441  58.118  1.00200.96      A16S
ATOM  21071  C5* C  A1006     223.226 120.856  57.834  1.00200.96      A16S
ATOM  21072  C4* C  A1006     224.418 121.453  58.557  1.00200.96      A16S
ATOM  21073  O4* C  A1006     224.280 121.204  59.981  1.00200.96      A16S
ATOM  21074  C1* C  A1006     225.552 120.942  60.551  1.00200.96      A16S
ATOM  21075  N1  C  A1006     225.513 119.604  61.177  1.00191.67      A16S
ATOM  21076  C6  C  A1006     225.149 118.500  60.454  1.00191.67      A16S
ATOM  21077  C2  C  A1006     225.846 119.479  62.537  1.00191.67      A16S
ATOM  21078  O2  C  A1006     226.197 120.488  63.173  1.00191.67      A16S
ATOM  21079  N3  C  A1006     225.778 118.260  63.122  1.00191.67      A16S
ATOM  21080  C4  C  A1006     225.406 117.195  62.407  1.00191.67      A16S
ATOM  21081  N4  C  A1006     225.335 116.020  63.029  1.00191.67      A16S
ATOM  21082  C5  C  A1006     225.083 117.290  61.022  1.00191.67      A16S
ATOM  21083  C2* C  A1006     226.606 121.094  59.450  1.00200.96      A16S
ATOM  21084  O2* C  A1006     227.180 122.385  59.529  1.00200.96      A16S
ATOM  21085  C3* C  A1006     225.776 120.870  58.188  1.00200.96      A16S
ATOM  21086  O3* C  A1006     226.329 121.530  57.052  1.00200.96      A16S
ATOM  21087  P   C  A1007     227.446 120.789  56.160  1.00200.96      A16S
ATOM  21088  O1P C  A1007     227.769 121.697  55.026  1.00138.54      A16S
ATOM  21089  O2P C  A1007     226.994 119.398  55.883  1.00138.54      A16S
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ATOM  21090  O5* C   A1007     228.717 120.709  57.118  1.00200.96      A16S
ATOM  21091  C5* C   A1007     229.469 121.891  57.455  1.00200.96      A16S
ATOM  21092  C4* C   A1007     230.729 121.514  58.195  1.00200.96      A16S
ATOM  21093  O4* C   A1007     230.379 120.917  59.471  1.00200.96      A16S
ATOM  21094  C1* C   A1007     231.305 119.890  59.788  1.00200.96      A16S
ATOM  21095  N1   C   A1007     230.576 118.614  59.936  1.00138.54      A16S
ATOM  21096  C6   C   A1007     229.252 118.513  59.600  1.00138.54      A16S
ATOM  21097  C2   C   A1007     231.267 117.493  60.429  1.00138.54      A16S
ATOM  21098  O2   C   A1007     232.472 117.602  60.723  1.00138.54      A16S
ATOM  21099  N3   C   A1007     230.607 116.321  60.570  1.00138.54      A16S
ATOM  21100  C4   C   A1007     229.316 116.237  60.241  1.00138.54      A16S
ATOM  21101  N4   C   A1007     228.707 115.061  60.404  1.00138.54      A16S
ATOM  21102  C5   C   A1007     228.591 117.357  59.734  1.00138.54      A16S
ATOM  21103  C2* C   A1007     232.355 119.842  58.677  1.00200.96      A16S
ATOM  21104  O2* C   A1007     233.495 120.575  59.079  1.00200.96      A16S
ATOM  21105  C3* C   A1007     231.602 120.474  57.511  1.00200.96      A16S
ATOM  21106  O3* C   A1007     232.474 121.053  56.549  1.00200.96      A16S
ATOM  21107  P    C   A1008     233.063 120.143  55.361  1.00200.93      A16S
ATOM  21108  O1P C   A1008     233.814 121.048  54.453  1.00171.12      A16S
ATOM  21109  O2P C   A1008     231.957 119.311  54.818  1.00171.12      A16S
ATOM  21110  O5* C   A1008     234.105 119.182  56.094  1.00200.93      A16S
ATOM  21111  C5* C   A1008     235.207 119.735  56.837  1.00200.93      A16S
ATOM  21112  C4* C   A1008     235.860 118.679  57.702  1.00200.93      A16S
ATOM  21113  O4* C   A1008     234.895 118.132  58.639  1.00200.93      A16S
ATOM  21114  C1* C   A1008     235.239 116.789  58.938  1.00200.93      A16S
ATOM  21115  N1   C   A1008     234.088 115.907  58.669  1.00171.12      A16S
ATOM  21116  C6   C   A1008     233.035 116.327  57.905  1.00171.12      A16S
ATOM  21117  C2   C   A1008     234.092 114.609  59.215  1.00171.12      A16S
ATOM  21118  O2   C   A1008     235.062 114.243  59.901  1.00171.12      A16S
ATOM  21119  N3   C   A1008     233.046 113.790  58.978  1.00171.12      A16S
ATOM  21120  C4   C   A1008     232.025 114.211  58.231  1.00171.12      A16S
ATOM  21121  N4   C   A1008     231.013 113.363  58.023  1.00171.12      A16S
ATOM  21122  C5   C   A1008     231.993 115.520  57.663  1.00171.12      A16S
ATOM  21123  C2* C   A1008     236.469 116.416  58.111  1.00200.93      A16S
ATOM  21124  O2* C   A1008     237.621 116.503  58.925  1.00200.93      A16S
ATOM  21125  C3* C   A1008     236.435 117.460  56.998  1.00200.93      A16S
ATOM  21126  O3* C   A1008     237.741 117.714  56.485  1.00200.93      A16S
ATOM  21127  P    G   A1009     238.461 116.613  55.557  1.00143.72      A16S
ATOM  21128  O1P G   A1009     239.877 117.025  55.394  1.00137.54      A16S
ATOM  21129  O2P G   A1009     237.618 116.387  54.354  1.00137.54      A16S
ATOM  21130  O5* G   A1009     238.437 115.294  56.450  1.00143.72      A16S
ATOM  21131  C5* G   A1009     238.712 114.004  55.886  1.00143.72      A16S
ATOM  21132  C4* G   A1009     238.831 112.978  56.985  1.00143.72      A16S
ATOM  21133  O4* G   A1009     237.598 112.928  57.752  1.00143.72      A16S
ATOM  21134  C1* G   A1009     237.358 111.597  58.183  1.00143.72      A16S
ATOM  21135  N9   G   A1009     236.060 111.157  57.671  1.00137.54      A16S
ATOM  21136  C4   G   A1009     235.424 109.971  57.971  1.00137.54      A16S
ATOM  21137  N3   G   A1009     235.882 109.013  58.807  1.00137.54      A16S
ATOM  21138  C2   G   A1009     235.055 107.985  58.881  1.00137.54      A16S
ATOM  21139  N2   G   A1009     235.356 106.941  59.668  1.00137.54      A16S
ATOM  21140  N1   G   A1009     233.873 107.901  58.189  1.00137.54      A16S
ATOM  21141  C6   G   A1009     233.381 108.871  57.322  1.00137.54      A16S
ATOM  21142  O6   G   A1009     232.303 108.688  56.741  1.00137.54      A16S
ATOM  21143  C5   G   A1009     234.257 109.985  57.236  1.00137.54      A16S
ATOM  21144  N7   G   A1009     234.151 111.158  56.500  1.00137.54      A16S
ATOM  21145  C8   G   A1009     235.237 111.823  56.791  1.00137.54      A16S
ATOM  21146  C2* G   A1009     238.516 110.726  57.686  1.00143.72      A16S
ATOM  21147  O2* G   A1009     239.455 110.556  58.728  1.00143.72      A16S
ATOM  21148  C3* G   A1009     239.049 111.550  56.519  1.00143.72      A16S
ATOM  21149  O3* G   A1009     240.424 111.303  56.252  1.00143.72      A16S
ATOM  21150  P    G   A1010     240.835 110.264  55.096  1.00139.08      A16S
ATOM  21151  O1P G   A1010     242.323 110.239  55.027  1.00135.32      A16S
ATOM  21152  O2P G   A1010     240.048 110.568  53.869  1.00135.32      A16S
ATOM  21153  O5* G   A1010     240.348 108.860  55.663  1.00139.08      A16S
ATOM  21154  C5* G   A1010     240.947 108.305  56.838  1.00139.08      A16S
ATOM  21155  C4* G   A1010     240.303 106.992  57.171  1.00139.08      A16S
ATOM  21156  O4* G   A1010     238.918 107.216  57.529  1.00139.08      A16S
ATOM  21157  C1* G   A1010     238.133 106.117  57.102  1.00139.08      A16S
ATOM  21158  N9   G   A1010     237.082 106.603  56.213  1.00135.32      A16S
ATOM  21159  C4   G   A1010     235.920 105.939  55.905  1.00135.32      A16S
ATOM  21160  N3   G   A1010     235.551 104.733  56.382  1.00135.32      A16S
ATOM  21161  C2   G   A1010     234.385 104.350  55.904  1.00135.32      A16S
ATOM  21162  N2   G   A1010     233.871 103.175  56.283  1.00135.32      A16S
ATOM  21163  N1   G   A1010     233.638 105.093  55.022  1.00135.32      A16S
ATOM  21164  C6   G   A1010     233.998 106.337  54.516  1.00135.32      A16S
ATOM  21165  O6   G   A1010     233.251 106.922  53.723  1.00135.32      A16S
ATOM  21166  C5   G   A1010     235.249 106.761  55.024  1.00135.32      A16S
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ATOM	21167	N7	G	A1010	235.972	107.922	54.785	1.00135.32	A16S
ATOM	21168	C8	G	A1010	237.050	107.787	55.511	1.00135.32	A16S
ATOM	21169	C2*	G	A1010	239.060	105.114	56.415	1.00139.08	A16S
ATOM	21170	O2*	G	A1010	239.408	104.087	57.321	1.00139.08	A16S
ATOM	21171	C3*	G	A1010	240.239	105.998	56.028	1.00139.08	A16S
ATOM	21172	O3*	G	A1010	241.447	105.269	55.885	1.00139.08	A16S
ATOM	21173	P	G	A1011	241.815	104.624	54.459	1.00153.58	A16S
ATOM	21174	O1P	G	A1011	243.203	104.083	54.546	1.00 93.38	A16S
ATOM	21175	O2P	G	A1011	241.481	105.634	53.412	1.00 93.38	A16S
ATOM	21176	O5*	G	A1011	240.798	103.403	54.331	1.00153.58	A16S
ATOM	21177	C5*	G	A1011	240.771	102.360	55.324	1.00153.58	A16S
ATOM	21178	C4*	G	A1011	239.649	101.389	55.044	1.00153.58	A16S
ATOM	21179	O4*	G	A1011	238.364	102.018	55.284	1.00153.58	A16S
ATOM	21180	C1*	G	A1011	237.403	101.504	54.373	1.00153.58	A16S
ATOM	21181	N9	G	A1011	236.812	102.616	53.628	1.00 93.38	A16S
ATOM	21182	C4	G	A1011	235.639	102.579	52.900	1.00 93.38	A16S
ATOM	21183	N3	G	A1011	234.849	101.496	52.716	1.00 93.38	A16S
ATOM	21184	C2	G	A1011	233.785	101.779	51.984	1.00 93.38	A16S
ATOM	21185	N2	G	A1011	232.907	100.814	51.694	1.00 93.38	A16S
ATOM	21186	N1	G	A1011	233.506	103.027	51.480	1.00 93.38	A16S
ATOM	21187	C6	G	A1011	234.300	104.158	51.657	1.00 93.38	A16S
ATOM	21188	O6	G	A1011	233.951	105.246	51.166	1.00 93.38	A16S
ATOM	21189	C5	G	A1011	235.460	103.865	52.431	1.00 93.38	A16S
ATOM	21190	N7	G	A1011	236.512	104.685	52.825	1.00 93.38	A16S
ATOM	21191	C8	G	A1011	237.288	103.903	53.526	1.00 93.38	A16S
ATOM	21192	C2*	G	A1011	238.099	100.472	53.486	1.00153.58	A16S
ATOM	21193	O2*	G	A1011	237.842	99.174	53.985	1.00153.58	A16S
ATOM	21194	C3*	G	A1011	239.560	100.889	53.615	1.00153.58	A16S
ATOM	21195	O3*	G	A1011	240.457	99.822	53.361	1.00153.58	A16S
ATOM	21196	P	U	A1012	241.094	99.672	51.897	1.00184.97	A16S
ATOM	21197	O1P	U	A1012	241.874	98.404	51.859	1.00 80.13	A16S
ATOM	21198	O2P	U	A1012	241.761	100.966	51.562	1.00 80.13	A16S
ATOM	21199	O5*	U	A1012	239.817	99.490	50.962	1.00184.97	A16S
ATOM	21200	C5*	U	A1012	239.024	98.290	51.037	1.00184.97	A16S
ATOM	21201	C4*	U	A1012	237.921	98.317	50.009	1.00184.97	A16S
ATOM	21202	O4*	U	A1012	236.873	99.235	50.412	1.00184.97	A16S
ATOM	21203	C1*	U	A1012	236.284	99.816	49.260	1.00184.97	A16S
ATOM	21204	N1	U	A1012	236.438	101.278	49.326	1.00 80.13	A16S
ATOM	21205	C6	U	A1012	237.475	101.865	50.019	1.00 80.13	A16S
ATOM	21206	C2	U	A1012	235.502	102.057	48.649	1.00 80.13	A16S
ATOM	21207	O2	U	A1012	234.557	101.582	48.031	1.00 80.13	A16S
ATOM	21208	N3	U	A1012	235.713	103.414	48.724	1.00 80.13	A16S
ATOM	21209	C4	U	A1012	236.733	104.064	49.391	1.00 80.13	A16S
ATOM	21210	O4	U	A1012	236.789	105.300	49.360	1.00 80.13	A16S
ATOM	21211	C5	U	A1012	237.650	103.194	50.073	1.00 80.13	A16S
ATOM	21212	C2*	U	A1012	236.982	99.230	48.032	1.00184.97	A16S
ATOM	21213	O2*	U	A1012	236.217	98.156	47.522	1.00184.97	A16S
ATOM	21214	C3*	U	A1012	238.314	98.784	48.619	1.00184.97	A16S
ATOM	21215	O3*	U	A1012	238.931	97.765	47.852	1.00184.97	A16S
ATOM	21216	P	G	A1013	239.921	98.172	46.653	1.00160.74	A16S
ATOM	21217	O1P	G	A1013	240.438	96.903	46.084	1.00119.41	A16S
ATOM	21218	O2P	G	A1013	240.877	99.203	47.139	1.00119.41	A16S
ATOM	21219	O5*	G	A1013	238.960	98.875	45.592	1.00160.74	A16S
ATOM	21220	C5*	G	A1013	237.930	98.126	44.921	1.00160.74	A16S
ATOM	21221	C4*	G	A1013	237.069	99.041	44.081	1.00160.74	A16S
ATOM	21222	O4*	G	A1013	236.299	99.925	44.935	1.00160.74	A16S
ATOM	21223	C1*	G	A1013	236.092	101.162	44.274	1.00160.74	A16S
ATOM	21224	N9	G	A1013	236.696	102.229	45.063	1.00119.41	A16S
ATOM	21225	C4	G	A1013	236.246	103.527	45.166	1.00119.41	A16S
ATOM	21226	N3	G	A1013	235.130	104.030	44.594	1.00119.41	A16S
ATOM	21227	C2	G	A1013	234.980	105.321	44.851	1.00119.41	A16S
ATOM	21228	N2	G	A1013	233.920	105.982	44.361	1.00119.41	A16S
ATOM	21229	N1	G	A1013	235.857	106.060	45.608	1.00119.41	A16S
ATOM	21230	C6	G	A1013	237.011	105.565	46.206	1.00119.41	A16S
ATOM	21231	O6	G	A1013	237.738	106.322	46.864	1.00119.41	A16S
ATOM	21232	C5	G	A1013	237.182	104.177	45.942	1.00119.41	A16S
ATOM	21233	N7	G	A1013	238.182	103.300	46.345	1.00119.41	A16S
ATOM	21234	C8	G	A1013	237.847	102.157	45.810	1.00119.41	A16S
ATOM	21235	C2*	G	A1013	236.767	101.078	42.905	1.00160.74	A16S
ATOM	21236	O2*	G	A1013	235.815	100.730	41.922	1.00160.74	A16S
ATOM	21237	C3*	G	A1013	237.797	99.982	43.136	1.00160.74	A16S
ATOM	21238	O3*	G	A1013	238.176	99.362	41.920	1.00160.74	A16S
ATOM	21239	P	A	A1014	239.400	99.970	41.077	1.00119.34	A16S
ATOM	21240	O1P	A	A1014	239.508	99.170	39.831	1.00133.70	A16S
ATOM	21241	O2P	A	A1014	240.577	100.089	41.972	1.00133.70	A16S
ATOM	21242	O5*	A	A1014	238.922	101.443	40.698	1.00119.34	A16S
ATOM	21243	C5*	A	A1014	239.801	102.341	39.995	1.00119.34	A16S

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ATOM  21244  C4* A   A1014     239.036 103.116  38.947  1.00119.34      A16S
ATOM  21245  O4* A   A1014     238.460 102.201  37.985  1.00119.34      A16S
ATOM  21246  C1* A   A1014     237.197 102.683  37.560  1.00119.34      A16S
ATOM  21247  N9  A   A1014     236.204 101.653  37.863  1.00133.70      A16S
ATOM  21248  C4  A   A1014     235.209 101.202  37.032  1.00133.70      A16S
ATOM  21249  N3  A   A1014     234.928 101.626  35.788  1.00133.70      A16S
ATOM  21250  C2  A   A1014     233.904 100.944  35.283  1.00133.70      A16S
ATOM  21251  N1  A   A1014     233.184  99.959  35.838  1.00133.70      A16S
ATOM  21252  C6  A   A1014     233.496  99.557  37.090  1.00133.70      A16S
ATOM  21253  N6  A   A1014     232.784  98.573  37.647  1.00133.70      A16S
ATOM  21254  C5  A   A1014     234.559 100.203  37.734  1.00133.70      A16S
ATOM  21255  N7  A   A1014     235.123 100.039  38.990  1.00133.70      A16S
ATOM  21256  C8  A   A1014     236.087 100.923  39.018  1.00133.70      A16S
ATOM  21257  C2* A   A1014     236.943 104.024  38.252  1.00119.34      A16S
ATOM  21258  O2* A   A1014     237.304 105.091  37.395  1.00119.34      A16S
ATOM  21259  C3* A   A1014     237.860 103.923  39.463  1.00119.34      A16S
ATOM  21260  O3* A   A1014     238.300 105.194  39.896  1.00119.34      A16S
ATOM  21261  P   A   A1015     238.064 105.625  41.416  1.00 93.35      A16S
ATOM  21262  O1P A   A1015     239.064 106.675  41.748  1.00 71.92      A16S
ATOM  21263  O2P A   A1015     238.023 104.362  42.212  1.00 71.92      A16S
ATOM  21264  O5* A   A1015     236.626 106.310  41.392  1.00 93.35      A16S
ATOM  21265  C5* A   A1015     236.431 107.575  40.722  1.00 93.35      A16S
ATOM  21266  C4* A   A1015     235.108 107.585  40.002  1.00 93.35      A16S
ATOM  21267  O4* A   A1015     235.004 106.354  39.249  1.00 93.35      A16S
ATOM  21268  C1* A   A1015     233.666 105.906  39.243  1.00 93.35      A16S
ATOM  21269  N9  A   A1015     233.640 104.540  39.761  1.00 71.92      A16S
ATOM  21270  C4  A   A1015     232.750 103.557  39.403  1.00 71.92      A16S
ATOM  21271  N3  A   A1015     231.720 103.662  38.544  1.00 71.92      A16S
ATOM  21272  C2  A   A1015     231.091 102.492  38.424  1.00 71.92      A16S
ATOM  21273  N1  A   A1015     231.354 101.319  39.019  1.00 71.92      A16S
ATOM  21274  C6  A   A1015     232.397 101.250  39.873  1.00 71.92      A16S
ATOM  21275  N6  A   A1015     232.668 100.081  40.456  1.00 71.92      A16S
ATOM  21276  C5  A   A1015     233.142 102.423  40.092  1.00 71.92      A16S
ATOM  21277  N7  A   A1015     234.244 102.692  40.889  1.00 71.92      A16S
ATOM  21278  C8  A   A1015     234.495 103.959  40.663  1.00 71.92      A16S
ATOM  21279  C2* A   A1015     232.824 106.917  40.015  1.00 93.35      A16S
ATOM  21280  O2* A   A1015     232.236 107.810  39.095  1.00 93.35      A16S
ATOM  21281  C3* A   A1015     233.870 107.604  40.882  1.00 93.35      A16S
ATOM  21282  O3* A   A1015     233.491 108.946  41.158  1.00 93.35      A16S
ATOM  21283  P   A   A1016     232.558 109.269  42.426  1.00105.70      A16S
ATOM  21284  O1P A   A1016     232.323 110.745  42.441  1.00 63.15      A16S
ATOM  21285  O2P A   A1016     233.164 108.600  43.610  1.00 63.15      A16S
ATOM  21286  O5* A   A1016     231.179 108.528  42.123  1.00105.70      A16S
ATOM  21287  C5* A   A1016     230.170 109.121  41.280  1.00105.70      A16S
ATOM  21288  C4* A   A1016     229.058 108.128  41.037  1.00105.70      A16S
ATOM  21289  O4* A   A1016     229.627 106.942  40.427  1.00105.70      A16S
ATOM  21290  C1* A   A1016     228.998 105.781  40.942  1.00105.70      A16S
ATOM  21291  N9  A   A1016     230.014 104.999  41.640  1.00 63.15      A16S
ATOM  21292  C4  A   A1016     229.968 103.660  41.935  1.00 63.15      A16S
ATOM  21293  N3  A   A1016     228.987 102.792  41.641  1.00 63.15      A16S
ATOM  21294  C2  A   A1016     229.282 101.580  42.106  1.00 63.15      A16S
ATOM  21295  N1  A   A1016     230.364 101.172  42.775  1.00 63.15      A16S
ATOM  21296  C6  A   A1016     231.331 102.075  43.045  1.00 63.15      A16S
ATOM  21297  N6  A   A1016     232.422 101.676  43.701  1.00 63.15      A16S
ATOM  21298  C5  A   A1016     231.136 103.386  42.616  1.00 63.15      A16S
ATOM  21299  N7  A   A1016     231.910 104.528  42.745  1.00 63.15      A16S
ATOM  21300  C8  A   A1016     231.204 105.453  42.150  1.00 63.15      A16S
ATOM  21301  C2* A   A1016     227.880 106.231  41.883  1.00105.70      A16S
ATOM  21302  O2* A   A1016     226.633 106.221  41.212  1.00105.70      A16S
ATOM  21303  C3* A   A1016     228.360 107.620  42.289  1.00105.70      A16S
ATOM  21304  O3* A   A1016     227.280 108.463  42.654  1.00105.70      A16S
ATOM  21305  P   G   A1017     226.881 108.625  44.201  1.00134.47      A16S
ATOM  21306  O1P G   A1017     225.556 109.288  44.187  1.00 82.06      A16S
ATOM  21307  O2P G   A1017     228.014 109.271  44.914  1.00 82.06      A16S
ATOM  21308  O5* G   A1017     226.713 107.128  44.733  1.00134.47      A16S
ATOM  21309  C5* G   A1017     225.654 106.282  44.236  1.00134.47      A16S
ATOM  21310  C4* G   A1017     225.899 104.837  44.619  1.00134.47      A16S
ATOM  21311  O4* G   A1017     227.201 104.429  44.129  1.00134.47      A16S
ATOM  21312  C1* G   A1017     227.801 103.532  45.048  1.00134.47      A16S
ATOM  21313  N9  G   A1017     229.012 104.158  45.563  1.00 82.06      A16S
ATOM  21314  C4  G   A1017     230.082 103.516  46.136  1.00 82.06      A16S
ATOM  21315  N3  G   A1017     230.204 102.184  46.319  1.00 82.06      A16S
ATOM  21316  C2  G   A1017     231.353 101.867  46.899  1.00 82.06      A16S
ATOM  21317  N2  G   A1017     231.645 100.579  47.159  1.00 82.06      A16S
ATOM  21318  N1  G   A1017     232.301 102.788  47.267  1.00 82.06      A16S
ATOM  21319  C6  G   A1017     232.197 104.162  47.086  1.00 82.06      A16S
ATOM  21320  O6  G   A1017     233.116 104.902  47.448  1.00 82.06      A16S
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ATOM  21321  C5  G  A1017     230.971 104.516  46.470  1.00 82.06      A16S
ATOM  21322  N7  G  A1017     230.468 105.763  46.118  1.00 82.06      A16S
ATOM  21323  C8  G  A1017     229.307 105.503  45.584  1.00 82.06      A16S
ATOM  21324  C2* G  A1017     226.801 103.271  46.171  1.00134.47      A16S
ATOM  21325  O2* G  A1017     226.091 102.074  45.917  1.00134.47      A16S
ATOM  21326  C3* G  A1017     225.942 104.528  46.109  1.00134.47      A16S
ATOM  21327  O3* G  A1017     224.647 104.310  46.652  1.00134.47      A16S
ATOM  21328  P   C  A1018     224.382 104.605  48.210  1.00128.47      A16S
ATOM  21329  O1P C  A1018     222.912 104.487  48.413  1.00 66.90      A16S
ATOM  21330  O2P C  A1018     225.083 105.874  48.574  1.00 66.90      A16S
ATOM  21331  O5* C  A1018     225.088 103.388  48.957  1.00128.47      A16S
ATOM  21332  C5* C  A1018     224.596 102.048  48.794  1.00128.47      A16S
ATOM  21333  C4* C  A1018     225.589 101.057  49.341  1.00128.47      A16S
ATOM  21334  O4* C  A1018     226.838 101.209  48.620  1.00128.47      A16S
ATOM  21335  C1* C  A1018     227.930 101.016  49.506  1.00128.47      A16S
ATOM  21336  N1  C  A1018     228.664 102.291  49.639  1.00 66.90      A16S
ATOM  21337  C6  C  A1018     228.043 103.495  49.424  1.00 66.90      A16S
ATOM  21338  C2  C  A1018     230.017 102.249  49.998  1.00 66.90      A16S
ATOM  21339  O2  C  A1018     230.548 101.144  50.207  1.00 66.90      A16S
ATOM  21340  N3  C  A1018     230.706 103.412  50.113  1.00 66.90      A16S
ATOM  21341  C4  C  A1018     230.089 104.579  49.896  1.00 66.90      A16S
ATOM  21342  N4  C  A1018     230.807 105.702  50.017  1.00 66.90      A16S
ATOM  21343  C5  C  A1018     228.709 104.650  49.544  1.00 66.90      A16S
ATOM  21344  C2* C  A1018     227.357 100.593  50.853  1.00128.47      A16S
ATOM  21345  O2* C  A1018     227.316  99.180  50.924  1.00128.47      A16S
ATOM  21346  C3* C  A1018     225.982 101.242  50.799  1.00128.47      A16S
ATOM  21347  O3* C  A1018     225.072 100.666  51.720  1.00128.47      A16S
ATOM  21348  P   C  A1019     224.932 101.308  53.187  1.00200.96      A16S
ATOM  21349  O1P C  A1019     223.777 100.658  53.850  1.00 98.38      A16S
ATOM  21350  O2P C  A1019     224.966 102.789  53.054  1.00 98.38      A16S
ATOM  21351  O5* C  A1019     226.271 100.866  53.929  1.00200.96      A16S
ATOM  21352  C5* C  A1019     226.644  99.477  54.023  1.00200.96      A16S
ATOM  21353  C4* C  A1019     228.039  99.341  54.592  1.00200.96      A16S
ATOM  21354  O4* C  A1019     228.998  99.944  53.682  1.00200.96      A16S
ATOM  21355  C1* C  A1019     230.055 100.536  54.422  1.00200.96      A16S
ATOM  21356  N1  C  A1019     230.102 101.984  54.119  1.00 98.38      A16S
ATOM  21357  C6  C  A1019     228.972 102.665  53.756  1.00 98.38      A16S
ATOM  21358  C2  C  A1019     231.331 102.660  54.215  1.00 98.38      A16S
ATOM  21359  O2  C  A1019     232.344 102.027  54.548  1.00 98.38      A16S
ATOM  21360  N3  C  A1019     231.381 103.986  53.942  1.00 98.38      A16S
ATOM  21361  C4  C  A1019     230.271 104.638  53.591  1.00 98.38      A16S
ATOM  21362  N4  C  A1019     230.365 105.949  53.335  1.00 98.38      A16S
ATOM  21363  C5  C  A1019     229.011 103.978  53.486  1.00 98.38      A16S
ATOM  21364  C2* C  A1019     229.801 100.255  55.904  1.00200.96      A16S
ATOM  21365  O2* C  A1019     230.531  99.109  56.299  1.00200.96      A16S
ATOM  21366  C3* C  A1019     228.292 100.036  55.923  1.00200.96      A16S
ATOM  21367  O3* C  A1019     227.873  99.254  57.035  1.00200.96      A16S
ATOM  21368  P   U  A1020     227.365  99.986  58.376  1.00200.96      A16S
ATOM  21369  O1P U  A1020     227.043  98.914  59.351  1.00132.70      A16S
ATOM  21370  O2P U  A1020     226.323 100.983  58.014  1.00132.70      A16S
ATOM  21371  O5* U  A1020     228.648 100.782  58.890  1.00200.96      A16S
ATOM  21372  C5* U  A1020     229.893 100.096  59.123  1.00200.96      A16S
ATOM  21373  C4* U  A1020     231.016 101.081  59.363  1.00200.96      A16S
ATOM  21374  O4* U  A1020     231.217 101.913  58.190  1.00200.96      A16S
ATOM  21375  C1* U  A1020     231.702 103.185  58.589  1.00200.96      A16S
ATOM  21376  N1  U  A1020     230.817 104.238  58.064  1.00132.70      A16S
ATOM  21377  C6  U  A1020     229.456 104.050  57.936  1.00132.70      A16S
ATOM  21378  C2  U  A1020     231.402 105.449  57.711  1.00132.70      A16S
ATOM  21379  O2  U  A1020     232.601 105.659  57.798  1.00132.70      A16S
ATOM  21380  N3  U  A1020     230.530 106.405  57.255  1.00132.70      A16S
ATOM  21381  C4  U  A1020     229.166 106.286  57.115  1.00132.70      A16S
ATOM  21382  O4  U  A1020     228.516 107.252  56.712  1.00132.70      A16S
ATOM  21383  C5  U  A1020     228.634 105.008  57.488  1.00132.70      A16S
ATOM  21384  C2* U  A1020     231.796 103.198  60.117  1.00200.96      A16S
ATOM  21385  O2* U  A1020     233.135 102.951  60.501  1.00200.96      A16S
ATOM  21386  C3* U  A1020     230.838 102.073  60.502  1.00200.96      A16S
ATOM  21387  O3* U  A1020     231.163 101.497  61.764  1.00200.96      A16S
ATOM  21388  P   G  A1021     230.611 102.176  63.115  1.00178.41      A16S
ATOM  21389  O1P G  A1021     230.938 101.249  64.230  1.00155.60      A16S
ATOM  21390  O2P G  A1021     229.202 102.597  62.901  1.00155.60      A16S
ATOM  21391  O5* G  A1021     231.510 103.483  63.272  1.00178.41      A16S
ATOM  21392  C5* G  A1021     232.907 103.367  63.593  1.00178.41      A16S
ATOM  21393  C4* G  A1021     233.555 104.729  63.699  1.00178.41      A16S
ATOM  21394  O4* G  A1021     233.727 105.329  62.388  1.00178.41      A16S
ATOM  21395  C1* G  A1021     233.727 106.743  62.517  1.00178.41      A16S
ATOM  21396  N9  G  A1021     232.680 107.312  61.674  1.00155.60      A16S
ATOM  21397  C4  G  A1021     232.674 108.585  61.148  1.00155.60      A16S
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ATOM  21398  N3  G   A1021     233.645 109.512  61.304  1.00155.60      A16S
ATOM  21399  C2  G   A1021     233.352 110.645  60.687  1.00155.60      A16S
ATOM  21400  N2  G   A1021     234.208 111.673  60.741  1.00155.60      A16S
ATOM  21401  N1  G   A1021     232.198 110.853  59.972  1.00155.60      A16S
ATOM  21402  C6  G   A1021     231.183 109.915  59.798  1.00155.60      A16S
ATOM  21403  O6  G   A1021     230.178 110.210  59.134  1.00155.60      A16S
ATOM  21404  C5  G   A1021     231.486 108.690  60.456  1.00155.60      A16S
ATOM  21405  N7  G   A1021     230.762 107.506  60.538  1.00155.60      A16S
ATOM  21406  C8  G   A1021     231.508 106.719  61.265  1.00155.60      A16S
ATOM  21407  C2* G   A1021     233.488 107.077  63.987  1.00178.41      A16S
ATOM  21408  O2* G   A1021     234.733 107.324  64.604  1.00178.41      A16S
ATOM  21409  C3* G   A1021     232.831 105.799  64.494  1.00178.41      A16S
ATOM  21410  O3* G   A1021     232.989 105.656  65.894  1.00178.41      A16S
ATOM  21411  P   G   A1022     231.989 106.436  66.881  1.00190.92      A16S
ATOM  21412  O1P G   A1022     232.151 105.832  68.229  1.00158.64      A16S
ATOM  21413  O2P G   A1022     230.641 106.479  66.252  1.00158.64      A16S
ATOM  21414  O5* G   A1022     232.566 107.921  66.911  1.00190.92      A16S
ATOM  21415  C5* G   A1022     233.936 108.167  67.275  1.00190.92      A16S
ATOM  21416  C4* G   A1022     234.358 109.554  66.852  1.00190.92      A16S
ATOM  21417  O4* G   A1022     234.252 109.687  65.409  1.00190.92      A16S
ATOM  21418  C1* G   A1022     233.904 111.021  65.075  1.00190.92      A16S
ATOM  21419  N9  G   A1022     232.636 111.013  64.350  1.00158.64      A16S
ATOM  21420  C4  G   A1022     232.147 112.035  63.573  1.00158.64      A16S
ATOM  21421  N3  G   A1022     232.771 113.205  63.319  1.00158.64      A16S
ATOM  21422  C2  G   A1022     232.046 113.996  62.550  1.00158.64      A16S
ATOM  21423  N2  G   A1022     232.522 115.197  62.198  1.00158.64      A16S
ATOM  21424  N1  G   A1022     230.802 113.668  62.070  1.00158.64      A16S
ATOM  21425  C6  G   A1022     230.138 112.470  62.319  1.00158.64      A16S
ATOM  21426  O6  G   A1022     229.013 112.277  61.841  1.00158.64      A16S
ATOM  21427  C5  G   A1022     230.911 111.607  63.140  1.00158.64      A16S
ATOM  21428  N7  G   A1022     230.635 110.333  63.619  1.00158.64      A16S
ATOM  21429  C8  G   A1022     231.686 110.019  64.327  1.00158.64      A16S
ATOM  21430  C2* G   A1022     233.786 111.812  66.377  1.00190.92      A16S
ATOM  21431  O2* G   A1022     234.981 112.531  66.615  1.00190.92      A16S
ATOM  21432  C3* G   A1022     233.526 110.704  67.391  1.00190.92      A16S
ATOM  21433  O3* G   A1022     233.911 111.075  68.706  1.00190.92      A16S
ATOM  21434  P   G   A1023     233.010 112.122  69.523  1.00158.62      A16S
ATOM  21435  O1P G   A1023     233.635 112.286  70.860  1.00200.96      A16S
ATOM  21436  O2P G   A1023     231.587 111.701  69.421  1.00200.96      A16S
ATOM  21437  O5* G   A1023     233.193 113.476  68.705  1.00158.62      A16S
ATOM  21438  C5* G   A1023     232.442 114.656  69.034  1.00158.62      A16S
ATOM  21439  C4* G   A1023     233.139 115.876  68.484  1.00158.62      A16S
ATOM  21440  O4* G   A1023     233.338 115.705  67.056  1.00158.62      A16S
ATOM  21441  C1* G   A1023     233.180 116.951  66.396  1.00158.62      A16S
ATOM  21442  N9  G   A1023     232.037 116.847  65.490  1.00200.96      A16S
ATOM  21443  C4  G   A1023     231.433 117.885  64.812  1.00200.96      A16S
ATOM  21444  N3  G   A1023     231.813 119.183  64.844  1.00200.96      A16S
ATOM  21445  C2  G   A1023     231.023 119.949  64.110  1.00200.96      A16S
ATOM  21446  N2  G   A1023     231.259 121.268  64.028  1.00200.96      A16S
ATOM  21447  N1  G   A1023     229.944 119.479  63.402  1.00200.96      A16S
ATOM  21448  C6  G   A1023     229.533 118.150  63.356  1.00200.96      A16S
ATOM  21449  O6  G   A1023     228.538 117.836  62.694  1.00200.96      A16S
ATOM  21450  C5  G   A1023     230.377 117.315  64.135  1.00200.96      A16S
ATOM  21451  N7  G   A1023     230.329 115.945  64.360  1.00200.96      A16S
ATOM  21452  C8  G   A1023     231.332 115.713  65.163  1.00200.96      A16S
ATOM  21453  C2* G   A1023     232.951 118.016  67.472  1.00158.62      A16S
ATOM  21454  O2* G   A1023     234.175 118.647  67.800  1.00158.62      A16S
ATOM  21455  C3* G   A1023     232.374 117.185  68.611  1.00158.62      A16S
ATOM  21456  O3* G   A1023     232.544 117.812  69.881  1.00158.62      A16S
ATOM  21457  P   G   A1024     231.263 118.420  70.652  1.00200.96      A16S
ATOM  21458  O1P G   A1024     231.614 119.801  71.079  1.00192.64      A16S
ATOM  21459  O2P G   A1024     230.820 117.428  71.667  1.00192.64      A16S
ATOM  21460  O5* G   A1024     230.124 118.524  69.539  1.00200.96      A16S
ATOM  21461  C5* G   A1024     230.078 119.632  68.615  1.00200.96      A16S
ATOM  21462  C4* G   A1024     228.778 119.618  67.840  1.00200.96      A16S
ATOM  21463  O4* G   A1024     228.743 118.478  66.939  1.00200.96      A16S
ATOM  21464  C1* G   A1024     227.410 118.001  66.816  1.00200.96      A16S
ATOM  21465  N9  G   A1024     227.379 116.586  67.194  1.00192.64      A16S
ATOM  21466  C4  G   A1024     227.368 115.504  66.338  1.00192.64      A16S
ATOM  21467  N3  G   A1024     227.393 115.554  64.988  1.00192.64      A16S
ATOM  21468  C2  G   A1024     227.376 114.345  64.448  1.00192.64      A16S
ATOM  21469  N2  G   A1024     227.402 114.207  63.116  1.00192.64      A16S
ATOM  21470  N1  G   A1024     227.332 113.181  65.173  1.00192.64      A16S
ATOM  21471  C6  G   A1024     227.305 113.103  66.561  1.00192.64      A16S
ATOM  21472  O6  G   A1024     227.265 111.997  67.116  1.00192.64      A16S
ATOM  21473  C5  G   A1024     227.327 114.392  67.156  1.00192.64      A16S
ATOM  21474  N7  G   A1024     227.315 114.763  68.493  1.00192.64      A16S
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ATOM  21475  C8  G   A1024     227.348 116.067  68.469  1.00192.64      A16S
ATOM  21476  C2* G   A1024     226.513 118.893  67.680  1.00200.96      A16S
ATOM  21477  O2* G   A1024     225.894 119.870  66.866  1.00200.96      A16S
ATOM  21478  C3* G   A1024     227.515 119.478  68.675  1.00200.96      A16S
ATOM  21479  O3* G   A1024     227.092 120.721  69.228  1.00200.96      A16S
ATOM  21480  P   U   A1025     226.347 120.742  70.655  1.00200.96      A16S
ATOM  21481  O1P U   A1025     225.859 122.134  70.863  1.00173.22      A16S
ATOM  21482  O2P U   A1025     227.254 120.125  71.662  1.00173.22      A16S
ATOM  21483  O5* U   A1025     225.094 119.774  70.436  1.00200.96      A16S
ATOM  21484  C5* U   A1025     223.755 120.195  70.771  1.00200.96      A16S
ATOM  21485  C4* U   A1025     223.237 121.149  69.721  1.00200.96      A16S
ATOM  21486  O4* U   A1025     223.058 120.457  68.458  1.00200.96      A16S
ATOM  21487  C1* U   A1025     222.055 121.120  67.705  1.00200.96      A16S
ATOM  21488  N1  U   A1025     221.095 120.141  67.164  1.00173.22      A16S
ATOM  21489  C6  U   A1025     220.944 118.886  67.712  1.00173.22      A16S
ATOM  21490  C2  U   A1025     220.333 120.534  66.066  1.00173.22      A16S
ATOM  21491  O2  U   A1025     220.426 121.635  65.545  1.00173.22      A16S
ATOM  21492  N3  U   A1025     219.457 119.589  65.601  1.00173.22      A16S
ATOM  21493  C4  U   A1025     219.259 118.325  66.101  1.00173.22      A16S
ATOM  21494  O4  U   A1025     218.425 117.596  65.569  1.00173.22      A16S
ATOM  21495  C5  U   A1025     220.076 117.990  67.232  1.00173.22      A16S
ATOM  21496  C2* U   A1025     221.430 122.203  68.589  1.00200.96      A16S
ATOM  21497  O2* U   A1025     221.951 123.460  68.199  1.00200.96      A16S
ATOM  21498  C3* U   A1025     221.883 121.784  69.987  1.00200.96      A16S
ATOM  21499  O3* U   A1025     222.019 122.920  70.832  1.00200.96      A16S
ATOM  21500  P   G   A1026     221.171 123.010  72.193  1.00200.70      A16S
ATOM  21501  O1P G   A1026     221.841 122.120  73.175  1.00169.58      A16S
ATOM  21502  O2P G   A1026     219.733 122.798  71.876  1.00169.58      A16S
ATOM  21503  O5* G   A1026     221.383 124.519  72.662  1.00200.70      A16S
ATOM  21504  C5* G   A1026     220.374 125.518  72.423  1.00200.70      A16S
ATOM  21505  C4* G   A1026     220.671 126.271  71.147  1.00200.70      A16S
ATOM  21506  O4* G   A1026     220.914 125.320  70.082  1.00200.70      A16S
ATOM  21507  C1* G   A1026     220.320 125.779  68.882  1.00200.70      A16S
ATOM  21508  N9  G   A1026     219.342 124.779  68.461  1.00169.58      A16S
ATOM  21509  C4  G   A1026     219.030 124.421  67.171  1.00169.58      A16S
ATOM  21510  N3  G   A1026     219.562 124.950  66.049  1.00169.58      A16S
ATOM  21511  C2  G   A1026     219.069 124.390  64.958  1.00169.58      A16S
ATOM  21512  N2  G   A1026     219.486 124.800  63.752  1.00169.58      A16S
ATOM  21513  N1  G   A1026     218.128 123.389  64.969  1.00169.58      A16S
ATOM  21514  C6  G   A1026     217.568 122.829  66.113  1.00169.58      A16S
ATOM  21515  O6  G   A1026     216.729 121.926  66.013  1.00169.58      A16S
ATOM  21516  C5  G   A1026     218.086 123.423  67.287  1.00169.58      A16S
ATOM  21517  N7  G   A1026     217.802 123.165  68.619  1.00169.58      A16S
ATOM  21518  C8  G   A1026     218.563 123.994  69.278  1.00169.58      A16S
ATOM  21519  C2* G   A1026     219.729 127.167  69.145  1.00200.70      A16S
ATOM  21520  O2* G   A1026     220.651 128.156  68.730  1.00200.70      A16S
ATOM  21521  C3* G   A1026     219.522 127.137  70.655  1.00200.70      A16S
ATOM  21522  O3* G   A1026     219.571 128.438  71.232  1.00200.70      A16S
ATOM  21523  P   C   A1027     218.294 129.005  72.025  1.00199.84      A16S
ATOM  21524  O1P C   A1027     218.402 130.487  72.035  1.00199.86      A16S
ATOM  21525  O2P C   A1027     218.176 128.269  73.310  1.00199.86      A16S
ATOM  21526  O5* C   A1027     217.059 128.597  71.106  1.00199.84      A16S
ATOM  21527  C5* C   A1027     216.835 129.243  69.842  1.00199.84      A16S
ATOM  21528  C4* C   A1027     215.626 128.652  69.159  1.00199.84      A16S
ATOM  21529  O4* C   A1027     215.927 127.317  68.680  1.00199.84      A16S
ATOM  21530  C1* C   A1027     214.751 126.529  68.718  1.00199.84      A16S
ATOM  21531  N1  C   A1027     215.034 125.273  69.436  1.00199.86      A16S
ATOM  21532  C6  C   A1027     215.428 125.278  70.747  1.00199.86      A16S
ATOM  21533  C2  C   A1027     214.883 124.061  68.751  1.00199.86      A16S
ATOM  21534  O2  C   A1027     214.552 124.084  67.558  1.00199.86      A16S
ATOM  21535  N3  C   A1027     215.109 122.898  69.403  1.00199.86      A16S
ATOM  21536  C4  C   A1027     215.483 122.913  70.684  1.00199.86      A16S
ATOM  21537  N4  C   A1027     215.692 121.740  71.289  1.00199.86      A16S
ATOM  21538  C5  C   A1027     215.660 124.132  71.403  1.00199.86      A16S
ATOM  21539  C2* C   A1027     213.620 127.372  69.316  1.00199.84      A16S
ATOM  21540  O2* C   A1027     212.785 127.844  68.278  1.00199.84      A16S
ATOM  21541  C3* C   A1027     214.390 128.483  70.028  1.00199.84      A16S
ATOM  21542  O3* C   A1027     213.646 129.696  70.115  1.00199.84      A16S
ATOM  21543  P   C   A1028     212.627 129.920  71.338  1.00178.44      A16S
ATOM  21544  O1P C   A1028     212.038 131.281  71.196  1.00158.81      A16S
ATOM  21545  O2P C   A1028     213.317 129.545  72.601  1.00158.81      A16S
ATOM  21546  O5* C   A1028     211.483 128.848  71.065  1.00178.44      A16S
ATOM  21547  C5* C   A1028     210.363 129.161  70.217  1.00178.44      A16S
ATOM  21548  C4* C   A1028     209.228 128.206  70.490  1.00178.44      A16S
ATOM  21549  O4* C   A1028     209.541 126.899  69.946  1.00178.44      A16S
ATOM  21550  C1* C   A1028     209.037 125.890  70.807  1.00178.44      A16S
ATOM  21551  N1  C   A1028     210.168 125.067  71.273  1.00158.81      A16S
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ATOM  21552  C6  C   A1028     211.387 125.632  71.533  1.00158.81      A16S
ATOM  21553  C2  C   A1028     209.975 123.690  71.460  1.00158.81      A16S
ATOM  21554  O2  C   A1028     208.869 123.192  71.198  1.00158.81      A16S
ATOM  21555  N3  C   A1028     211.001 122.939  71.919  1.00158.81      A16S
ATOM  21556  C4  C   A1028     212.180 123.505  72.179  1.00158.81      A16S
ATOM  21557  N4  C   A1028     213.159 122.724  72.639  1.00158.81      A16S
ATOM  21558  C5  C   A1028     212.408 124.896  71.983  1.00158.81      A16S
ATOM  21559  C2* C   A1028     208.301 126.579  71.960  1.00178.44      A16S
ATOM  21560  O2* C   A1028     206.912 126.613  71.697  1.00178.44      A16S
ATOM  21561  C3* C   A1028     208.953 127.957  71.964  1.00178.44      A16S
ATOM  21562  O3* C   A1028     208.140 128.974  72.536  1.00178.44      A16S
ATOM  21563  P   C   A1029     208.384 129.418  74.062  1.00200.96      A16S
ATOM  21564  O1P C   A1029     207.507 130.586  74.330  1.00188.41      A16S
ATOM  21565  O2P C   A1029     209.848 129.529  74.299  1.00188.41      A16S
ATOM  21566  O5* C   A1029     207.840 128.178  74.900  1.00200.96      A16S
ATOM  21567  C5* C   A1029     206.481 127.731  74.745  1.00200.96      A16S
ATOM  21568  C4* C   A1029     206.266 126.429  75.477  1.00200.96      A16S
ATOM  21569  O4* C   A1029     207.011 125.365  74.829  1.00200.96      A16S
ATOM  21570  C1* C   A1029     207.449 124.430  75.803  1.00200.96      A16S
ATOM  21571  N1  C   A1029     208.923 124.321  75.746  1.00188.41      A16S
ATOM  21572  C6  C   A1029     209.699 125.387  75.379  1.00188.41      A16S
ATOM  21573  C2  C   A1029     209.523 123.095  76.084  1.00188.41      A16S
ATOM  21574  O2  C   A1029     208.803 122.141  76.418  1.00188.41      A16S
ATOM  21575  N3  C   A1029     210.870 122.984  76.043  1.00188.41      A16S
ATOM  21576  C4  C   A1029     211.615 124.032  75.686  1.00188.41      A16S
ATOM  21577  N4  C   A1029     212.942 123.875  75.662  1.00188.41      A16S
ATOM  21578  C5  C   A1029     211.035 125.289  75.337  1.00188.41      A16S
ATOM  21579  C2* C   A1029     206.942 124.902  77.167  1.00200.96      A16S
ATOM  21580  O2* C   A1029     205.744 124.222  77.487  1.00200.96      A16S
ATOM  21581  C3* C   A1029     206.730 126.392  76.924  1.00200.96      A16S
ATOM  21582  O3* C   A1029     205.772 126.959  77.810  1.00200.96      A16S
ATOM  21583  P   C   A1030     206.202 127.326  79.315  1.00149.54      A16S
ATOM  21584  O1P C   A1030     205.126 128.185  79.875  1.00145.28      A16S
ATOM  21585  O2P C   A1030     207.606 127.816  79.316  1.00145.28      A16S
ATOM  21586  O5* C   A1030     206.166 125.919  80.063  1.00149.54      A16S
ATOM  21587  C5* C   A1030     204.911 125.272  80.351  1.00149.54      A16S
ATOM  21588  C4* C   A1030     205.140 123.962  81.072  1.00149.54      A16S
ATOM  21589  O4* C   A1030     205.685 122.975  80.157  1.00149.54      A16S
ATOM  21590  C1* C   A1030     206.554 122.103  80.861  1.00149.54      A16S
ATOM  21591  N1  C   A1030     207.907 122.196  80.276  1.00145.28      A16S
ATOM  21592  C6  C   A1030     208.380 123.381  79.778  1.00145.28      A16S
ATOM  21593  C2  C   A1030     208.719 121.052  80.263  1.00145.28      A16S
ATOM  21594  O2  C   A1030     208.258 119.977  80.689  1.00145.28      A16S
ATOM  21595  N3  C   A1030     209.983 121.146  79.783  1.00145.28      A16S
ATOM  21596  C4  C   A1030     210.438 122.312  79.318  1.00145.28      A16S
ATOM  21597  N4  C   A1030     211.696 122.360  78.868  1.00145.28      A16S
ATOM  21598  C5  C   A1030     209.627 123.483  79.297  1.00145.28      A16S
ATOM  21599  C2* C   A1030     206.552 122.528  82.332  1.00149.54      A16S
ATOM  21600  O2* C   A1030     205.648 121.727  83.067  1.00149.54      A16S
ATOM  21601  C3* C   A1030     206.123 123.988  82.231  1.00149.54      A16S
ATOM  21602  O3* C   A1030     205.551 124.476  83.437  1.00149.54      A16S
ATOM  21603  P   G   A1030A    206.428 125.418  84.405  1.00200.92      A16S
ATOM  21604  O1P G   A1030A    205.598 125.709  85.603  1.00183.05      A16S
ATOM  21605  O2P G   A1030A    206.983 126.543  83.605  1.00183.05      A16S
ATOM  21606  O5* G   A1030A    207.645 124.488  84.847  1.00200.92      A16S
ATOM  21607  C5* G   A1030A    207.410 123.202  85.455  1.00200.92      A16S
ATOM  21608  C4* G   A1030A    208.680 122.383  85.469  1.00200.92      A16S
ATOM  21609  O4* G   A1030A    209.134 122.179  84.105  1.00200.92      A16S
ATOM  21610  C1* G   A1030A    210.553 122.185  84.065  1.00200.92      A16S
ATOM  21611  N9  G   A1030A    210.989 123.303  83.227  1.00183.05      A16S
ATOM  21612  C4  G   A1030A    212.188 123.405  82.558  1.00183.05      A16S
ATOM  21613  N3  G   A1030A    213.167 122.473  82.535  1.00183.05      A16S
ATOM  21614  C2  G   A1030A    214.209 122.869  81.822  1.00183.05      A16S
ATOM  21615  N2  G   A1030A    215.275 122.065  81.698  1.00183.05      A16S
ATOM  21616  N1  G   A1030A    214.284 124.081  81.181  1.00183.05      A16S
ATOM  21617  C6  G   A1030A    213.291 125.056  81.191  1.00183.05      A16S
ATOM  21618  O6  G   A1030A    213.465 126.119  80.583  1.00183.05      A16S
ATOM  21619  C5  G   A1030A    212.165 124.644  81.951  1.00183.05      A16S
ATOM  21620  N7  G   A1030A    210.971 125.301  82.218  1.00183.05      A16S
ATOM  21621  C8  G   A1030A    210.304 124.469  82.971  1.00183.05      A16S
ATOM  21622  C2* G   A1030A    211.053 122.321  85.505  1.00200.92      A16S
ATOM  21623  O2* G   A1030A    211.311 121.038  86.044  1.00200.92      A16S
ATOM  21624  C3* G   A1030A    209.872 123.012  86.175  1.00200.92      A16S
ATOM  21625  O3* G   A1030A    209.839 122.808  87.583  1.00200.92      A16S
ATOM  21626  P   C   A1030B    210.152 124.040  88.573  1.00180.78      A16S
ATOM  21627  O1P C   A1030B    209.559 123.670  89.888  1.00100.51      A16S
ATOM  21628  O2P C   A1030B    209.738 125.313  87.910  1.00100.51      A16S
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ATOM  21629  O5* C   A1030B    211.743 124.046  88.704  1.00180.78      A16S
ATOM  21630  C5* C   A1030B    212.479 125.284  88.867  1.00180.78      A16S
ATOM  21631  C4* C   A1030B    213.899 124.996  89.305  1.00180.78      A16S
ATOM  21632  O4* C   A1030B    213.869 124.368  90.611  1.00180.78      A16S
ATOM  21633  C1* C   A1030B    214.857 123.353  90.681  1.00180.78      A16S
ATOM  21634  N1   C   A1030B    214.175 122.067  90.928  1.00100.51      A16S
ATOM  21635  C6   C   A1030B    212.841 121.925  90.654  1.00100.51      A16S
ATOM  21636  C2   C   A1030B    214.910 120.979  91.452  1.00100.51      A16S
ATOM  21637  O2   C   A1030B    216.126 121.115  91.689  1.00100.51      A16S
ATOM  21638  N3   C   A1030B    214.271 119.809  91.684  1.00100.51      A16S
ATOM  21639  C4   C   A1030B    212.965 119.694  91.415  1.00100.51      A16S
ATOM  21640  N4   C   A1030B    212.378 118.524  91.663  1.00100.51      A16S
ATOM  21641  C5   C   A1030B    212.205 120.772  90.881  1.00100.51      A16S
ATOM  21642  C2* C   A1030B    215.662 123.388  89.380  1.00180.78      A16S
ATOM  21643  O2* C   A1030B    216.834 124.154  89.576  1.00180.78      A16S
ATOM  21644  C3* C   A1030B    214.671 124.031  88.415  1.00180.78      A16S
ATOM  21645  O3* C   A1030B    215.328 124.724  87.354  1.00180.78      A16S
ATOM  21646  P    G   A1030C    215.303 124.118  85.863  1.00149.62      A16S
ATOM  21647  O1P G   A1030C    216.007 125.087  84.977  1.00109.97      A16S
ATOM  21648  O2P G   A1030C    213.908 123.719  85.549  1.00109.97      A16S
ATOM  21649  O5* G   A1030C    216.177 122.788  85.960  1.00149.62      A16S
ATOM  21650  C5* G   A1030C    217.574 122.837  86.299  1.00149.62      A16S
ATOM  21651  C4* G   A1030C    218.053 121.465  86.703  1.00149.62      A16S
ATOM  21652  O4* G   A1030C    217.294 121.029  87.860  1.00149.62      A16S
ATOM  21653  C1* G   A1030C    217.052 119.634  87.779  1.00149.62      A16S
ATOM  21654  N9   G   A1030C    215.607 119.416  87.761  1.00109.97      A16S
ATOM  21655  C4   G   A1030C    214.938 118.311  88.239  1.00109.97      A16S
ATOM  21656  N3   G   A1030C    215.503 117.219  88.799  1.00109.97      A16S
ATOM  21657  C2   G   A1030C    214.597 116.324  89.165  1.00109.97      A16S
ATOM  21658  N2   G   A1030C    214.988 115.170  89.733  1.00109.97      A16S
ATOM  21659  N1   G   A1030C    213.243 116.491  89.000  1.00109.97      A16S
ATOM  21660  C6   G   A1030C    212.638 117.606  88.429  1.00109.97      A16S
ATOM  21661  O6   G   A1030C    211.404 117.658  88.333  1.00109.97      A16S
ATOM  21662  C5   G   A1030C    213.600 118.572  88.024  1.00109.97      A16S
ATOM  21663  N7   G   A1030C    213.432 119.806  87.412  1.00109.97      A16S
ATOM  21664  C8   G   A1030C    214.644 120.269  87.274  1.00109.97      A16S
ATOM  21665  C2* G   A1030C    217.757 119.110  86.528  1.00149.62      A16S
ATOM  21666  O2* G   A1030C    219.024 118.601  86.893  1.00149.62      A16S
ATOM  21667  C3* G   A1030C    217.846 120.366  85.670  1.00149.62      A16S
ATOM  21668  O3* G   A1030C    218.921 120.306  84.734  1.00149.62      A16S
ATOM  21669  P    A   A1030D    218.671 119.693  83.266  1.00162.51      A16S
ATOM  21670  O1P A   A1030D    219.891 119.955  82.463  1.00170.22      A16S
ATOM  21671  O2P A   A1030D    217.352 120.166  82.769  1.00170.22      A16S
ATOM  21672  O5* A   A1030D    218.568 118.121  83.507  1.00162.51      A16S
ATOM  21673  C5* A   A1030D    219.679 117.375  84.048  1.00162.51      A16S
ATOM  21674  C4* A   A1030D    219.196 116.054  84.602  1.00162.51      A16S
ATOM  21675  O4* A   A1030D    218.207 116.322  85.630  1.00162.51      A16S
ATOM  21676  C1* A   A1030D    217.179 115.350  85.575  1.00162.51      A16S
ATOM  21677  N9   A   A1030D    215.915 116.032  85.283  1.00170.22      A16S
ATOM  21678  C4   A   A1030D    214.654 115.527  85.496  1.00170.22      A16S
ATOM  21679  N3   A   A1030D    214.331 114.331  86.019  1.00170.22      A16S
ATOM  21680  C2   A   A1030D    213.009 114.180  86.065  1.00170.22      A16S
ATOM  21681  N1   A   A1030D    212.044 115.025  85.676  1.00170.22      A16S
ATOM  21682  C6   A   A1030D    212.403 116.220  85.154  1.00170.22      A16S
ATOM  21683  N6   A   A1030D    211.441 117.064  84.764  1.00170.22      A16S
ATOM  21684  C5   A   A1030D    213.777 116.503  85.052  1.00170.22      A16S
ATOM  21685  N7   A   A1030D    214.470 117.608  84.576  1.00170.22      A16S
ATOM  21686  C8   A   A1030D    215.729 117.282  84.735  1.00170.22      A16S
ATOM  21687  C2* A   A1030D    217.562 114.328  84.503  1.00162.51      A16S
ATOM  21688  O2* A   A1030D    218.208 113.231  85.120  1.00162.51      A16S
ATOM  21689  C3* A   A1030D    218.488 115.145  83.607  1.00162.51      A16S
ATOM  21690  O3* A   A1030D    219.409 114.317  82.897  1.00162.51      A16S
ATOM  21691  P    G   A1031     219.442 114.342  81.285  1.00199.64      A16S
ATOM  21692  O1P G   A1031     220.257 113.174  80.864  1.00130.90      A16S
ATOM  21693  O2P G   A1031     219.829 115.705  80.841  1.00130.90      A16S
ATOM  21694  O5* G   A1031     217.935 114.082  80.831  1.00199.64      A16S
ATOM  21695  C5* G   A1031     217.256 112.863  81.185  1.00199.64      A16S
ATOM  21696  C4* G   A1031     215.762 113.086  81.246  1.00199.64      A16S
ATOM  21697  O4* G   A1031     215.509 114.315  81.982  1.00199.64      A16S
ATOM  21698  C1* G   A1031     214.341 114.944  81.479  1.00199.64      A16S
ATOM  21699  N9   G   A1031     214.689 116.262  80.954  1.00130.90      A16S
ATOM  21700  C4   G   A1031     213.843 117.340  80.872  1.00130.90      A16S
ATOM  21701  N3   G   A1031     212.566 117.377  81.306  1.00130.90      A16S
ATOM  21702  C2   G   A1031     211.997 118.544  81.072  1.00130.90      A16S
ATOM  21703  N2   G   A1031     210.730 118.752  81.452  1.00130.90      A16S
ATOM  21704  N1   G   A1031     212.627 119.594  80.449  1.00130.90      A16S
ATOM  21705  C6   G   A1031     213.938 119.580  79.983  1.00130.90      A16S
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ATOM  21706  O6  G  A1031     214.401 120.580  79.415  1.00130.90      A16S
ATOM  21707  C5  G  A1031     214.570 118.331  80.245  1.00130.90      A16S
ATOM  21708  N7  G  A1031     215.859 117.894  79.967  1.00130.90      A16S
ATOM  21709  C8  G  A1031     215.887 116.666  80.409  1.00130.90      A16S
ATOM  21710  C2* G  A1031     213.780 114.058  80.370  1.00199.64      A16S
ATOM  21711  O2* G  A1031     212.772 113.220  80.899  1.00199.64      A16S
ATOM  21712  C3* G  A1031     215.022 113.294  79.929  1.00199.64      A16S
ATOM  21713  O3* G  A1031     214.672 112.076  79.275  1.00199.64      A16S
ATOM  21714  P   G  A1032     214.167 112.112  77.743  1.00200.96      A16S
ATOM  21715  O1P G  A1032     214.053 110.710  77.263  1.00143.28      A16S
ATOM  21716  O2P G  A1032     215.013 113.080  76.990  1.00143.28      A16S
ATOM  21717  O5* G  A1032     212.691 112.710  77.832  1.00200.96      A16S
ATOM  21718  C5* G  A1032     211.622 111.957  78.442  1.00200.96      A16S
ATOM  21719  C4* G  A1032     210.340 112.758  78.431  1.00200.96      A16S
ATOM  21720  O4* G  A1032     210.510 113.963  79.222  1.00200.96      A16S
ATOM  21721  C1* G  A1032     209.767 115.024  78.645  1.00200.96      A16S
ATOM  21722  N9  G  A1032     210.683 116.118  78.328  1.00143.28      A16S
ATOM  21723  C4  G  A1032     210.328 117.404  78.000  1.00143.28      A16S
ATOM  21724  N3  G  A1032     209.068 117.881  77.920  1.00143.28      A16S
ATOM  21725  C2  G  A1032     209.044 119.154  77.570  1.00143.28      A16S
ATOM  21726  N2  G  A1032     207.869 119.788  77.442  1.00143.28      A16S
ATOM  21727  N1  G  A1032     210.171 119.902  77.320  1.00143.28      A16S
ATOM  21728  C6  G  A1032     211.479 119.433  77.399  1.00143.28      A16S
ATOM  21729  O6  G  A1032     212.427 120.196  77.159  1.00143.28      A16S
ATOM  21730  C5  G  A1032     211.517 118.065  77.771  1.00143.28      A16S
ATOM  21731  N7  G  A1032     212.598 117.215  77.958  1.00143.28      A16S
ATOM  21732  C8  G  A1032     212.057 116.074  78.289  1.00143.28      A16S
ATOM  21733  C2* G  A1032     209.038 114.476  77.416  1.00200.96      A16S
ATOM  21734  O2* G  A1032     207.707 114.149  77.762  1.00200.96      A16S
ATOM  21735  C3* G  A1032     209.880 113.253  77.070  1.00200.96      A16S
ATOM  21736  O3* G  A1032     209.124 112.260  76.389  1.00200.96      A16S
ATOM  21737  P   G  A1033     209.000 112.317  74.790  1.00200.88      A16S
ATOM  21738  O1P G  A1033     208.240 111.111  74.375  1.00185.81      A16S
ATOM  21739  O2P G  A1033     210.347 112.568  74.219  1.00185.81      A16S
ATOM  21740  O5* G  A1033     208.095 113.600  74.517  1.00200.88      A16S
ATOM  21741  C5* G  A1033     206.701 113.608  74.880  1.00200.88      A16S
ATOM  21742  C4* G  A1033     206.087 114.965  74.612  1.00200.88      A16S
ATOM  21743  O4* G  A1033     206.723 115.967  75.449  1.00200.88      A16S
ATOM  21744  C1* G  A1033     206.710 117.218  74.782  1.00200.88      A16S
ATOM  21745  N9  G  A1033     208.075 117.730  74.680  1.00185.81      A16S
ATOM  21746  C4  G  A1033     208.427 119.012  74.329  1.00185.81      A16S
ATOM  21747  N3  G  A1033     207.572 120.012  74.023  1.00185.81      A16S
ATOM  21748  C2  G  A1033     208.206 121.130  73.723  1.00185.81      A16S
ATOM  21749  N2  G  A1033     207.505 122.226  73.396  1.00185.81      A16S
ATOM  21750  N1  G  A1033     209.573 121.259  73.722  1.00185.81      A16S
ATOM  21751  C6  G  A1033     210.473 120.246  74.035  1.00185.81      A16S
ATOM  21752  O6  G  A1033     211.689 120.472  74.009  1.00185.81      A16S
ATOM  21753  C5  G  A1033     209.805 119.036  74.358  1.00185.81      A16S
ATOM  21754  N7  G  A1033     210.312 117.794  74.722  1.00185.81      A16S
ATOM  21755  C8  G  A1033     209.252 117.053  74.902  1.00185.81      A16S
ATOM  21756  C2* G  A1033     206.054 117.022  73.414  1.00200.88      A16S
ATOM  21757  O2* G  A1033     204.705 117.440  73.473  1.00200.88      A16S
ATOM  21758  C3* G  A1033     206.211 115.519  73.199  1.00200.88      A16S
ATOM  21759  O3* G  A1033     205.202 115.017  72.327  1.00200.88      A16S
ATOM  21760  P   G  A1034     205.490 114.921  70.746  1.00200.96      A16S
ATOM  21761  O1P G  A1034     204.189 114.626  70.090  1.00199.46      A16S
ATOM  21762  O2P G  A1034     206.643 114.006  70.530  1.00199.46      A16S
ATOM  21763  O5* G  A1034     205.943 116.395  70.335  1.00200.96      A16S
ATOM  21764  C5* G  A1034     204.996 117.483  70.310  1.00200.96      A16S
ATOM  21765  C4* G  A1034     205.674 118.771  69.897  1.00200.96      A16S
ATOM  21766  O4* G  A1034     206.654 119.159  70.896  1.00200.96      A16S
ATOM  21767  C1* G  A1034     207.741 119.822  70.269  1.00200.96      A16S
ATOM  21768  N9  G  A1034     208.979 119.105  70.578  1.00199.46      A16S
ATOM  21769  C4  G  A1034     210.263 119.577  70.403  1.00199.46      A16S
ATOM  21770  N3  G  A1034     210.605 120.789  69.914  1.00199.46      A16S
ATOM  21771  C2  G  A1034     211.918 120.949  69.862  1.00199.46      A16S
ATOM  21772  N2  G  A1034     212.431 122.097  69.395  1.00199.46      A16S
ATOM  21773  N1  G  A1034     212.824 119.996  70.262  1.00199.46      A16S
ATOM  21774  C6  G  A1034     212.495 118.742  70.769  1.00199.46      A16S
ATOM  21775  O6  G  A1034     213.392 117.955  71.102  1.00199.46      A16S
ATOM  21776  C5  G  A1034     211.089 118.555  70.827  1.00199.46      A16S
ATOM  21777  N7  G  A1034     210.344 117.466  71.257  1.00199.46      A16S
ATOM  21778  C8  G  A1034     209.102 117.835  71.093  1.00199.46      A16S
ATOM  21779  C2* G  A1034     207.446 119.889  68.769  1.00200.96      A16S
ATOM  21780  O2* G  A1034     206.890 121.152  68.457  1.00200.96      A16S
ATOM  21781  C3* G  A1034     206.455 118.743  68.592  1.00200.96      A16S
ATOM  21782  O3* G  A1034     205.611 118.935  67.461  1.00200.96      A16S
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ATOM  21783  P    A    A1035     206.158 118.587  65.986  1.00200.80      A16S
ATOM  21784  O1P  A    A1035     205.005 118.063  65.208  1.00200.96      A16S
ATOM  21785  O2P  A    A1035     207.397 117.767  66.100  1.00200.96      A16S
ATOM  21786  O5*  A    A1035     206.563 120.008  65.386  1.00200.80      A16S
ATOM  21787  C5*  A    A1035     205.560 121.005  65.089  1.00200.80      A16S
ATOM  21788  C4*  A    A1035     206.196 122.229  64.467  1.00200.80      A16S
ATOM  21789  O4*  A    A1035     207.058 122.873  65.441  1.00200.80      A16S
ATOM  21790  C1*  A    A1035     208.200 123.408  64.792  1.00200.80      A16S
ATOM  21791  N9   A    A1035     209.393 122.773  65.361  1.00200.96      A16S
ATOM  21792  C4   A    A1035     210.696 123.181  65.194  1.00200.96      A16S
ATOM  21793  N3   A    A1035     211.139 124.234  64.483  1.00200.96      A16S
ATOM  21794  C2   A    A1035     212.466 124.317  64.545  1.00200.96      A16S
ATOM  21795  N1   A    A1035     213.335 123.528  65.188  1.00200.96      A16S
ATOM  21796  C6   A    A1035     212.857 122.480  65.894  1.00200.96      A16S
ATOM  21797  N6   A    A1035     213.724 121.694  66.537  1.00200.96      A16S
ATOM  21798  C5   A    A1035     211.467 122.281  65.907  1.00200.96      A16S
ATOM  21799  N7   A    A1035     210.669 121.323  66.514  1.00200.96      A16S
ATOM  21800  C8   A    A1035     209.453 121.657  66.161  1.00200.96      A16S
ATOM  21801  C2*  A    A1035     208.042 123.165  63.289  1.00200.80      A16S
ATOM  21802  O2*  A    A1035     207.496 124.318  62.677  1.00200.80      A16S
ATOM  21803  C3*  A    A1035     207.093 121.972  63.266  1.00200.80      A16S
ATOM  21804  O3*  A    A1035     206.351 121.891  62.053  1.00200.80      A16S
ATOM  21805  P    G    A1036     206.885 120.960  60.855  1.00200.96      A16S
ATOM  21806  O1P  G    A1036     205.956 121.146  59.709  1.00200.13      A16S
ATOM  21807  O2P  G    A1036     207.134 119.593  61.380  1.00200.13      A16S
ATOM  21808  O5*  G    A1036     208.292 121.602  60.474  1.00200.96      A16S
ATOM  21809  C5*  G    A1036     208.369 122.926  59.915  1.00200.96      A16S
ATOM  21810  C4*  G    A1036     209.807 123.306  59.654  1.00200.96      A16S
ATOM  21811  O4*  G    A1036     210.504 123.513  60.909  1.00200.96      A16S
ATOM  21812  C1*  G    A1036     211.860 123.122  60.769  1.00200.96      A16S
ATOM  21813  N9   G    A1036     212.164 122.107  61.775  1.00200.13      A16S
ATOM  21814  C4   G    A1036     213.415 121.764  62.233  1.00200.13      A16S
ATOM  21815  N3   G    A1036     214.585 122.310  61.835  1.00200.13      A16S
ATOM  21816  C2   G    A1036     215.620 121.767  62.453  1.00200.13      A16S
ATOM  21817  N2   G    A1036     216.861 122.189  62.175  1.00200.13      A16S
ATOM  21818  N1   G    A1036     215.516 120.771  63.391  1.00200.13      A16S
ATOM  21819  C6   G    A1036     214.325 120.198  63.819  1.00200.13      A16S
ATOM  21820  O6   G    A1036     214.344 119.311  64.677  1.00200.13      A16S
ATOM  21821  C5   G    A1036     213.205 120.766  63.160  1.00200.13      A16S
ATOM  21822  N7   G    A1036     211.851 120.487  63.285  1.00200.13      A16S
ATOM  21823  C8   G    A1036     211.272 121.304  62.447  1.00200.13      A16S
ATOM  21824  C2*  G    A1036     212.065 122.628  59.334  1.00200.96      A16S
ATOM  21825  O2*  G    A1036     212.639 123.658  58.551  1.00200.96      A16S
ATOM  21826  C3*  G    A1036     210.642 122.276  58.914  1.00200.96      A16S
ATOM  21827  O3*  G    A1036     210.455 122.361  57.506  1.00200.96      A16S
ATOM  21828  P    C    A1037     210.617 121.042  56.602  1.00189.48      A16S
ATOM  21829  O1P  C    A1037     210.307 121.420  55.200  1.00200.58      A16S
ATOM  21830  O2P  C    A1037     209.867 119.931  57.246  1.00200.58      A16S
ATOM  21831  O5*  C    A1037     212.171 120.709  56.694  1.00189.48      A16S
ATOM  21832  C5*  C    A1037     213.160 121.647  56.226  1.00189.48      A16S
ATOM  21833  C4*  C    A1037     214.533 121.219  56.680  1.00189.48      A16S
ATOM  21834  O4*  C    A1037     214.609 121.314  58.125  1.00189.48      A16S
ATOM  21835  C1*  C    A1037     215.366 120.229  58.639  1.00189.48      A16S
ATOM  21836  N1   C    A1037     214.500 119.444  59.544  1.00200.58      A16S
ATOM  21837  C6   C    A1037     213.146 119.395  59.348  1.00200.58      A16S
ATOM  21838  C2   C    A1037     215.084 118.744  60.615  1.00200.58      A16S
ATOM  21839  O2   C    A1037     216.315 118.792  60.778  1.00200.58      A16S
ATOM  21840  N3   C    A1037     214.289 118.033  61.444  1.00200.58      A16S
ATOM  21841  C4   C    A1037     212.970 117.998  61.243  1.00200.58      A16S
ATOM  21842  N4   C    A1037     212.227 117.283  62.092  1.00200.58      A16S
ATOM  21843  C5   C    A1037     212.353 118.692  60.165  1.00200.58      A16S
ATOM  21844  C2*  C    A1037     215.890 119.420  57.451  1.00189.48      A16S
ATOM  21845  O2*  C    A1037     217.204 119.835  57.137  1.00189.48      A16S
ATOM  21846  C3*  C    A1037     214.879 119.772  56.366  1.00189.48      A16S
ATOM  21847  O3*  C    A1037     215.404 119.630  55.053  1.00189.48      A16S
ATOM  21848  P    C    A1038     215.113 118.286  54.222  1.00166.03      A16S
ATOM  21849  O1P  C    A1038     215.671 118.483  52.859  1.00187.16      A16S
ATOM  21850  O2P  C    A1038     213.675 117.941  54.383  1.00187.16      A16S
ATOM  21851  O5*  C    A1038     215.980 117.177  54.971  1.00166.03      A16S
ATOM  21852  C5*  C    A1038     217.412 117.318  55.108  1.00166.03      A16S
ATOM  21853  C4*  C    A1038     217.936 116.393  56.186  1.00166.03      A16S
ATOM  21854  O4*  C    A1038     217.344 116.753  57.459  1.00166.03      A16S
ATOM  21855  C1*  C    A1038     217.121 115.586  58.233  1.00166.03      A16S
ATOM  21856  N1   C    A1038     215.683 115.511  58.572  1.00187.16      A16S
ATOM  21857  C6   C    A1038     214.736 116.059  57.750  1.00187.16      A16S
ATOM  21858  C2   C    A1038     215.297 114.867  59.758  1.00187.16      A16S
ATOM  21859  O2   C    A1038     216.166 114.369  60.486  1.00187.16      A16S
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ATOM  21860  N3   C   A1038     213.985 114.800  60.078  1.00187.16      A16S
ATOM  21861  C4   C   A1038     213.072 115.341  59.268  1.00187.16      A16S
ATOM  21862  N4   C   A1038     211.789 115.251  59.625  1.00187.16      A16S
ATOM  21863  C5   C   A1038     213.434 115.997  58.056  1.00187.16      A16S
ATOM  21864  C2*  C   A1038     217.642 114.385  57.438  1.00166.03      A16S
ATOM  21865  O2*  C   A1038     218.943 114.050  57.880  1.00166.03      A16S
ATOM  21866  C3*  C   A1038     217.616 114.916  56.008  1.00166.03      A16S
ATOM  21867  O3*  C   A1038     218.590 114.279  55.187  1.00166.03      A16S
ATOM  21868  P    C   A1039     218.123 113.257  54.036  1.00168.81      A16S
ATOM  21869  O1P  C   A1039     219.236 113.197  53.053  1.00121.97      A16S
ATOM  21870  O2P  C   A1039     216.761 113.629  53.576  1.00121.97      A16S
ATOM  21871  O5*  C   A1039     218.042 111.846  54.771  1.00168.81      A16S
ATOM  21872  C5*  C   A1039     219.234 111.073  55.009  1.00168.81      A16S
ATOM  21873  C4*  C   A1039     218.935 109.909  55.921  1.00168.81      A16S
ATOM  21874  O4*  C   A1039     218.463 110.413  57.195  1.00168.81      A16S
ATOM  21875  C1*  C   A1039     217.491 109.531  57.727  1.00168.81      A16S
ATOM  21876  N1   C   A1039     216.242 110.285  57.972  1.00121.97      A16S
ATOM  21877  C6   C   A1039     216.145 111.614  57.657  1.00121.97      A16S
ATOM  21878  C2   C   A1039     215.150 109.619  58.554  1.00121.97      A16S
ATOM  21879  O2   C   A1039     215.243 108.407  58.791  1.00121.97      A16S
ATOM  21880  N3   C   A1039     214.020 110.313  58.830  1.00121.97      A16S
ATOM  21881  C4   C   A1039     213.946 111.613  58.531  1.00121.97      A16S
ATOM  21882  N4   C   A1039     212.814 112.258  58.827  1.00121.97      A16S
ATOM  21883  C5   C   A1039     215.028 112.308  57.917  1.00121.97      A16S
ATOM  21884  C2*  C   A1039     217.340 108.355  56.758  1.00168.81      A16S
ATOM  21885  O2*  C   A1039     218.123 107.271  57.217  1.00168.81      A16S
ATOM  21886  C3*  C   A1039     217.850 108.953  55.452  1.00168.81      A16S
ATOM  21887  O3*  C   A1039     218.379 107.958  54.578  1.00168.81      A16S
ATOM  21888  P    U   A1040     217.394 107.145  53.598  1.00158.94      A16S
ATOM  21889  O1P  U   A1040     218.241 106.473  52.578  1.00128.14      A16S
ATOM  21890  O2P  U   A1040     216.287 108.042  53.161  1.00128.14      A16S
ATOM  21891  O5*  U   A1040     216.770 106.013  54.525  1.00158.94      A16S
ATOM  21892  C5*  U   A1040     217.605 105.021  55.146  1.00158.94      A16S
ATOM  21893  C4*  U   A1040     216.816 104.271  56.185  1.00158.94      A16S
ATOM  21894  O4*  U   A1040     216.353 105.220  57.179  1.00158.94      A16S
ATOM  21895  C1*  U   A1040     215.044 104.879  57.595  1.00158.94      A16S
ATOM  21896  N1   U   A1040     214.142 106.003  57.289  1.00128.14      A16S
ATOM  21897  C6   U   A1040     214.464 106.954  56.349  1.00128.14      A16S
ATOM  21898  C2   U   A1040     212.950 106.076  57.985  1.00128.14      A16S
ATOM  21899  O2   U   A1040     212.613 105.242  58.802  1.00128.14      A16S
ATOM  21900  N3   U   A1040     212.160 107.156  57.678  1.00128.14      A16S
ATOM  21901  C4   U   A1040     212.426 108.144  56.755  1.00128.14      A16S
ATOM  21902  O4   U   A1040     211.610 109.054  56.586  1.00128.14      A16S
ATOM  21903  C5   U   A1040     213.669 107.992  56.066  1.00128.14      A16S
ATOM  21904  C2*  U   A1040     214.652 103.578  56.892  1.00158.94      A16S
ATOM  21905  O2*  U   A1040     214.928 102.482  57.743  1.00158.94      A16S
ATOM  21906  C3*  U   A1040     215.549 103.612  55.663  1.00158.94      A16S
ATOM  21907  O3*  U   A1040     215.805 102.312  55.149  1.00158.94      A16S
ATOM  21908  P    A   A1041     214.868 101.720  53.986  1.00176.12      A16S
ATOM  21909  O1P  A   A1041     215.346 100.341  53.703  1.00144.00      A16S
ATOM  21910  O2P  A   A1041     214.811 102.718  52.888  1.00144.00      A16S
ATOM  21911  O5*  A   A1041     213.425 101.625  54.657  1.00176.12      A16S
ATOM  21912  C5*  A   A1041     213.124 100.591  55.615  1.00176.12      A16S
ATOM  21913  C4*  A   A1041     211.699 100.715  56.106  1.00176.12      A16S
ATOM  21914  O4*  A   A1041     211.542 101.924  56.888  1.00176.12      A16S
ATOM  21915  C1*  A   A1041     210.222 102.419  56.739  1.00176.12      A16S
ATOM  21916  N9   A   A1041     210.285 103.813  56.299  1.00144.00      A16S
ATOM  21917  C4   A   A1041     209.303 104.760  56.479  1.00144.00      A16S
ATOM  21918  N3   A   A1041     208.106 104.596  57.070  1.00144.00      A16S
ATOM  21919  C2   A   A1041     207.420 105.738  57.071  1.00144.00      A16S
ATOM  21920  N1   A   A1041     207.768 106.936  56.585  1.00144.00      A16S
ATOM  21921  C6   A   A1041     208.978 107.068  55.997  1.00144.00      A16S
ATOM  21922  N6   A   A1041     209.326 108.264  55.515  1.00144.00      A16S
ATOM  21923  C5   A   A1041     209.801 105.928  55.930  1.00144.00      A16S
ATOM  21924  N7   A   A1041     211.068 105.720  55.402  1.00144.00      A16S
ATOM  21925  C8   A   A1041     211.307 104.454  55.643  1.00144.00      A16S
ATOM  21926  C2*  A   A1041     209.473 101.496  55.777  1.00176.12      A16S
ATOM  21927  O2*  A   A1041     208.684 100.594  56.526  1.00176.12      A16S
ATOM  21928  C3*  A   A1041     210.617 100.805  55.043  1.00176.12      A16S
ATOM  21929  O3*  A   A1041     210.233  99.516  54.590  1.00176.12      A16S
ATOM  21930  P    G   A1042     209.632  99.343  53.114  1.00200.96      A16S
ATOM  21931  O1P  G   A1042     209.382  97.887  52.931  1.00126.04      A16S
ATOM  21932  O2P  G   A1042     210.520 100.064  52.167  1.00126.04      A16S
ATOM  21933  O5*  G   A1042     208.237 100.115  53.164  1.00200.96      A16S
ATOM  21934  C5*  G   A1042     207.076  99.485  53.727  1.00200.96      A16S
ATOM  21935  C4*  G   A1042     205.889 100.426  53.732  1.00200.96      A16S
ATOM  21936  O4*  G   A1042     206.132 101.550  54.621  1.00200.96      A16S
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ATOM  21937  C1* G   A1042     205.343 102.654  54.206 1.00200.96      A16S
ATOM  21938  N9  G   A1042     206.191 103.819  53.975 1.00126.04      A16S
ATOM  21939  C4  G   A1042     205.758 105.125  53.952 1.00126.04      A16S
ATOM  21940  N3  G   A1042     204.492 105.542  54.169 1.00126.04      A16S
ATOM  21941  C2  G   A1042     204.377 106.855  54.065 1.00126.04      A16S
ATOM  21942  N2  G   A1042     203.184 107.434  54.250 1.00126.04      A16S
ATOM  21943  N1  G   A1042     205.422 107.695  53.771 1.00126.04      A16S
ATOM  21944  C6  G   A1042     206.733 107.291  53.540 1.00126.04      A16S
ATOM  21945  O6  G   A1042     207.595 108.135  53.272 1.00126.04      A16S
ATOM  21946  C5  G   A1042     206.872 105.876  53.652 1.00126.04      A16S
ATOM  21947  N7  G   A1042     207.989 105.062  53.505 1.00126.04      A16S
ATOM  21948  C8  G   A1042     207.539 103.852  53.711 1.00126.04      A16S
ATOM  21949  C2* G   A1042     204.620 102.255  52.922 1.00200.96      A16S
ATOM  21950  O2* G   A1042     203.296 101.881  53.246 1.00200.96      A16S
ATOM  21951  C3* G   A1042     205.473 101.089  52.428 1.00200.96      A16S
ATOM  21952  O3* G   A1042     204.727 100.238  51.567 1.00200.96      A16S
ATOM  21953  P   C   A1043     204.503 100.668  50.030 1.00172.29      A16S
ATOM  21954  O1P C   A1043     203.866  99.516  49.341 1.00149.70      A16S
ATOM  21955  O2P C   A1043     205.779 101.222  49.502 1.00149.70      A16S
ATOM  21956  O5* C   A1043     203.439 101.854  50.114 1.00172.29      A16S
ATOM  21957  C5* C   A1043     202.139 101.628  50.692 1.00172.29      A16S
ATOM  21958  C4* C   A1043     201.366 102.922  50.809 1.00172.29      A16S
ATOM  21959  O4* C   A1043     202.053 103.853  51.683 1.00172.29      A16S
ATOM  21960  C1* C   A1043     201.738 105.181  51.294 1.00172.29      A16S
ATOM  21961  N1  C   A1043     202.979 105.942  51.065 1.00149.70      A16S
ATOM  21962  C6  C   A1043     204.171 105.310  50.838 1.00149.70      A16S
ATOM  21963  C2  C   A1043     202.914 107.344  51.078 1.00149.70      A16S
ATOM  21964  O2  C   A1043     201.822 107.897  51.288 1.00149.70      A16S
ATOM  21965  N3  C   A1043     204.039 108.059  50.861 1.00149.70      A16S
ATOM  21966  C4  C   A1043     205.195 107.432  50.642 1.00149.70      A16S
ATOM  21967  N4  C   A1043     206.281 108.181  50.439 1.00149.70      A16S
ATOM  21968  C5  C   A1043     205.292 106.010  50.623 1.00149.70      A16S
ATOM  21969  C2* C   A1043     200.857 105.116  50.046 1.00172.29      A16S
ATOM  21970  O2* C   A1043     199.506 105.309  50.414 1.00172.29      A16S
ATOM  21971  C3* C   A1043     201.140 103.710  49.531 1.00172.29      A16S
ATOM  21972  O3* C   A1043     200.031 103.209  48.806 1.00172.29      A16S
ATOM  21973  P   A   A1044     199.887 103.550  47.245 1.00126.26      A16S
ATOM  21974  O1P A   A1044     198.561 103.012  46.852 1.00119.18      A16S
ATOM  21975  O2P A   A1044     201.110 103.084  46.537 1.00119.18      A16S
ATOM  21976  O5* A   A1044     199.828 105.145  47.187 1.00126.26      A16S
ATOM  21977  C5* A   A1044     198.618 105.838  47.543 1.00126.26      A16S
ATOM  21978  C4* A   A1044     198.689 107.308  47.175 1.00126.26      A16S
ATOM  21979  O4* A   A1044     199.588 108.021  48.061 1.00126.26      A16S
ATOM  21980  C1* A   A1044     200.033 109.204  47.415 1.00126.26      A16S
ATOM  21981  N9  A   A1044     201.494 109.267  47.440 1.00119.18      A16S
ATOM  21982  C4  A   A1044     202.229 110.400  47.182 1.00119.18      A16S
ATOM  21983  N3  A   A1044     201.760 111.625  46.890 1.00119.18      A16S
ATOM  21984  C2  A   A1044     202.760 112.474  46.690 1.00119.18      A16S
ATOM  21985  N1  A   A1044     204.076 112.257  46.743 1.00119.18      A16S
ATOM  21986  C6  A   A1044     204.515 111.016  47.040 1.00119.18      A16S
ATOM  21987  N6  A   A1044     205.830 110.801  47.094 1.00119.18      A16S
ATOM  21988  C5  A   A1044     203.552 110.021  47.276 1.00119.18      A16S
ATOM  21989  N7  A   A1044     203.656 108.675  47.600 1.00119.18      A16S
ATOM  21990  C8  A   A1044     202.410 108.275  47.689 1.00119.18      A16S
ATOM  21991  C2* A   A1044     199.504 109.188  45.981 1.00126.26      A16S
ATOM  21992  O2* A   A1044     198.389 110.052  45.867 1.00126.26      A16S
ATOM  21993  C3* A   A1044     199.154 107.715  45.785 1.00126.26      A16S
ATOM  21994  O3* A   A1044     198.154 107.584  44.784 1.00126.26      A16S
ATOM  21995  P   C   A1045     198.554 107.775  43.236 1.00139.81      A16S
ATOM  21996  O1P C   A1045     197.303 107.727  42.438 1.00159.64      A16S
ATOM  21997  O2P C   A1045     199.663 106.831  42.925 1.00159.64      A16S
ATOM  21998  O5* C   A1045     199.119 109.264  43.170 1.00139.81      A16S
ATOM  21999  C5* C   A1045     199.993 109.686  42.105 1.00139.81      A16S
ATOM  22000  C4* C   A1045     201.136 110.503  42.663 1.00139.81      A16S
ATOM  22001  O4* C   A1045     201.938 109.672  43.546 1.00139.81      A16S
ATOM  22002  C1* C   A1045     203.308 110.024  43.432 1.00139.81      A16S
ATOM  22003  N1  C   A1045     204.067 108.840  42.975 1.00159.64      A16S
ATOM  22004  C6  C   A1045     203.427 107.662  42.700 1.00159.64      A16S
ATOM  22005  C2  C   A1045     205.465 108.935  42.823 1.00159.64      A16S
ATOM  22006  O2  C   A1045     206.032 110.015  43.073 1.00159.64      A16S
ATOM  22007  N3  C   A1045     206.158 107.848  42.408 1.00159.64      A16S
ATOM  22008  C4  C   A1045     205.517 106.705  42.146 1.00159.64      A16S
ATOM  22009  N4  C   A1045     206.239 105.658  41.742 1.00159.64      A16S
ATOM  22010  C5  C   A1045     204.105 106.583  42.288 1.00159.64      A16S
ATOM  22011  C2* C   A1045     203.398 111.205  42.467 1.00139.81      A16S
ATOM  22012  O2* C   A1045     203.392 112.405  43.210 1.00139.81      A16S
ATOM  22013  C3* C   A1045     202.130 111.027  41.641 1.00139.81      A16S
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ATOM  22014  O3* C   A1045     201.700 112.250  41.057  1.00139.81      A16S
ATOM  22015  P    A   A1046     202.346 112.727  39.665  1.00107.29      A16S
ATOM  22016  O1P A   A1046     201.794 114.075  39.345  1.00 90.45      A16S
ATOM  22017  O2P A   A1046     202.202 111.617  38.682  1.00 90.45      A16S
ATOM  22018  O5* A   A1046     203.891 112.882  40.017  1.00107.29      A16S
ATOM  22019  C5* A   A1046     204.898 112.754  39.005  1.00107.29      A16S
ATOM  22020  C4* A   A1046     206.270 112.823  39.624  1.00107.29      A16S
ATOM  22021  O4* A   A1046     206.500 111.658  40.458  1.00107.29      A16S
ATOM  22022  C1* A   A1046     207.859 111.265  40.370  1.00107.29      A16S
ATOM  22023  N9   A   A1046     207.918 109.899  39.847  1.00 90.45      A16S
ATOM  22024  C4   A   A1046     209.066 109.178  39.627  1.00 90.45      A16S
ATOM  22025  N3   A   A1046     210.330 109.571  39.860  1.00 90.45      A16S
ATOM  22026  C2   A   A1046     211.191 108.619  39.505  1.00 90.45      A16S
ATOM  22027  N1   A   A1046     210.950 107.407  38.985  1.00 90.45      A16S
ATOM  22028  C6   A   A1046     209.668 107.038  38.772  1.00 90.45      A16S
ATOM  22029  N6   A   A1046     209.431 105.825  38.269  1.00 90.45      A16S
ATOM  22030  C5   A   A1046     208.657 107.964  39.103  1.00 90.45      A16S
ATOM  22031  N7   A   A1046     207.274 107.913  39.008  1.00 90.45      A16S
ATOM  22032  C8   A   A1046     206.884 109.080  39.464  1.00 90.45      A16S
ATOM  22033  C2* A   A1046     208.566 112.259  39.448  1.00107.29      A16S
ATOM  22034  O2* A   A1046     209.180 113.265  40.223  1.00107.29      A16S
ATOM  22035  C3* A   A1046     207.404 112.787  38.624  1.00107.29      A16S
ATOM  22036  O3* A   A1046     207.637 114.072  38.081  1.00107.29      A16S
ATOM  22037  P    G   A1047     207.580 114.266  36.491  1.00 76.08      A16S
ATOM  22038  O1P G   A1047     207.975 115.672  36.198  1.00 85.48      A16S
ATOM  22039  O2P G   A1047     206.262 113.772  36.022  1.00 85.48      A16S
ATOM  22040  O5* G   A1047     208.684 113.238  35.962  1.00 76.08      A16S
ATOM  22041  C5* G   A1047     210.044 113.283  36.447  1.00 76.08      A16S
ATOM  22042  C4* G   A1047     210.837 112.098  35.932  1.00 76.08      A16S
ATOM  22043  O4* G   A1047     210.406 110.881  36.603  1.00 76.08      A16S
ATOM  22044  C1* G   A1047     210.465 109.782  35.701  1.00 76.08      A16S
ATOM  22045  N9   G   A1047     209.095 109.367  35.416  1.00 85.48      A16S
ATOM  22046  C4   G   A1047     208.686 108.151  34.916  1.00 85.48      A16S
ATOM  22047  N3   G   A1047     209.479 107.090  34.651  1.00 85.48      A16S
ATOM  22048  C2   G   A1047     208.793 106.072  34.149  1.00 85.48      A16S
ATOM  22049  N2   G   A1047     209.420 104.929  33.827  1.00 85.48      A16S
ATOM  22050  N1   G   A1047     207.440 106.098  33.923  1.00 85.48      A16S
ATOM  22051  C6   G   A1047     206.604 107.179  34.186  1.00 85.48      A16S
ATOM  22052  O6   G   A1047     205.393 107.099  33.938  1.00 85.48      A16S
ATOM  22053  C5   G   A1047     207.324 108.275  34.728  1.00 85.48      A16S
ATOM  22054  N7   G   A1047     206.882 109.530  35.128  1.00 85.48      A16S
ATOM  22055  C8   G   A1047     207.961 110.136  35.540  1.00 85.48      A16S
ATOM  22056  C2* G   A1047     211.089 110.296  34.404  1.00 76.08      A16S
ATOM  22057  O2* G   A1047     212.483 110.064  34.389  1.00 76.08      A16S
ATOM  22058  C3* G   A1047     210.697 111.768  34.452  1.00 76.08      A16S
ATOM  22059  O3* G   A1047     211.432 112.605  33.564  1.00 76.08      A16S
ATOM  22060  P    G   A1048     210.776 112.997  32.142  1.00 69.74      A16S
ATOM  22061  O1P G   A1048     211.662 113.978  31.470  1.00 99.31      A16S
ATOM  22062  O2P G   A1048     209.347 113.338  32.351  1.00 99.31      A16S
ATOM  22063  O5* G   A1048     210.841 111.619  31.350  1.00 69.74      A16S
ATOM  22064  C5* G   A1048     212.082 110.910  31.274  1.00 69.74      A16S
ATOM  22065  C4* G   A1048     211.932 109.630  30.497  1.00 69.74      A16S
ATOM  22066  O4* G   A1048     211.253 108.630  31.306  1.00 69.74      A16S
ATOM  22067  C1* G   A1048     210.465 107.800  30.465  1.00 69.74      A16S
ATOM  22068  N9   G   A1048     209.056 108.082  30.718  1.00 99.31      A16S
ATOM  22069  C4   G   A1048     208.011 107.242  30.447  1.00 99.31      A16S
ATOM  22070  N3   G   A1048     208.116 105.979  29.989  1.00 99.31      A16S
ATOM  22071  C2   G   A1048     206.938 105.437  29.771  1.00 99.31      A16S
ATOM  22072  N2   G   A1048     206.863 104.183  29.314  1.00 99.31      A16S
ATOM  22073  N1   G   A1048     205.745 106.084  29.983  1.00 99.31      A16S
ATOM  22074  C6   G   A1048     205.614 107.388  30.454  1.00 99.31      A16S
ATOM  22075  O6   G   A1048     204.489 107.886  30.596  1.00 99.31      A16S
ATOM  22076  C5   G   A1048     206.874 107.978  30.701  1.00 99.31      A16S
ATOM  22077  N7   G   A1048     207.199 109.240  31.176  1.00 99.31      A16S
ATOM  22078  C8   G   A1048     208.503 109.252  31.186  1.00 99.31      A16S
ATOM  22079  C2* G   A1048     210.746 108.227  29.021  1.00 69.74      A16S
ATOM  22080  O2* G   A1048     211.767 107.414  28.460  1.00 69.74      A16S
ATOM  22081  C3* G   A1048     211.110 109.692  29.226  1.00 69.74      A16S
ATOM  22082  O3* G   A1048     211.726 110.353  28.145  1.00 69.74      A16S
ATOM  22083  P    U   A1049     211.063 111.718  27.614  1.00 74.87      A16S
ATOM  22084  O1P U   A1049     211.677 112.833  28.374  1.00 79.98      A16S
ATOM  22085  O2P U   A1049     209.590 111.552  27.628  1.00 79.98      A16S
ATOM  22086  O5* U   A1049     211.497 111.844  26.089  1.00 74.87      A16S
ATOM  22087  C5* U   A1049     211.282 110.762  25.160  1.00 74.87      A16S
ATOM  22088  C4* U   A1049     212.591 110.380  24.523  1.00 74.87      A16S
ATOM  22089  O4* U   A1049     213.027 111.446  23.663  1.00 74.87      A16S
ATOM  22090  C1* U   A1049     214.427 111.579  23.744  1.00 74.87      A16S
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ATOM  22091  N1  U  A1049     214.744 113.010  23.776  1.00 79.98      A16S
ATOM  22092  C6  U  A1049     213.842 113.919  24.266  1.00 79.98      A16S
ATOM  22093  C2  U  A1049     215.954 113.416  23.261  1.00 79.98      A16S
ATOM  22094  O2  U  A1049     216.804 112.634  22.868  1.00 79.98      A16S
ATOM  22095  N3  U  A1049     216.138 114.775  23.227  1.00 79.98      A16S
ATOM  22096  C4  U  A1049     215.255 115.745  23.669  1.00 79.98      A16S
ATOM  22097  O4  U  A1049     215.535 116.941  23.529  1.00 79.98      A16S
ATOM  22098  C5  U  A1049     214.047 115.234  24.229  1.00 79.98      A16S
ATOM  22099  C2* U  A1049     214.972 110.681  24.859  1.00 74.87      A16S
ATOM  22100  O2* U  A1049     215.819 109.686  24.341  1.00 74.87      A16S
ATOM  22101  C3* U  A1049     213.698 110.183  25.542  1.00 74.87      A16S
ATOM  22102  O3* U  A1049     213.689 108.814  25.967  1.00 74.87      A16S
ATOM  22103  P   G  A1050     213.884 107.622  24.892  1.00 84.44      A16S
ATOM  22104  O1P G  A1050     215.018 106.780  25.358  1.00 78.58      A16S
ATOM  22105  O2P G  A1050     213.898 108.168  23.514  1.00 78.58      A16S
ATOM  22106  O5* G  A1050     212.566 106.731  25.012  1.00 84.44      A16S
ATOM  22107  C5* G  A1050     212.635 105.332  24.686  1.00 84.44      A16S
ATOM  22108  C4* G  A1050     211.269 104.740  24.375  1.00 84.44      A16S
ATOM  22109  O4* G  A1050     210.455 104.678  25.573  1.00 84.44      A16S
ATOM  22110  C1* G  A1050     209.103 104.479  25.195  1.00 84.44      A16S
ATOM  22111  N9  G  A1050     208.251 105.529  25.745  1.00 78.58      A16S
ATOM  22112  C4  G  A1050     206.888 105.522  25.670  1.00 78.58      A16S
ATOM  22113  N3  G  A1050     206.140 104.533  25.136  1.00 78.58      A16S
ATOM  22114  C2  G  A1050     204.857 104.822  25.146  1.00 78.58      A16S
ATOM  22115  N2  G  A1050     203.982 103.943  24.632  1.00 78.58      A16S
ATOM  22116  N1  G  A1050     204.342 105.994  25.652  1.00 78.58      A16S
ATOM  22117  C6  G  A1050     205.097 107.028  26.208  1.00 78.58      A16S
ATOM  22118  O6  G  A1050     204.537 108.048  26.621  1.00 78.58      A16S
ATOM  22119  C5  G  A1050     206.482 106.724  26.199  1.00 78.58      A16S
ATOM  22120  N7  G  A1050     207.573 107.461  26.642  1.00 78.58      A16S
ATOM  22121  C8  G  A1050     208.603 106.707  26.363  1.00 78.58      A16S
ATOM  22122  C2* G  A1050     209.036 104.573  23.673  1.00 84.44      A16S
ATOM  22123  O2* G  A1050     209.038 103.266  23.138  1.00 84.44      A16S
ATOM  22124  C3* G  A1050     210.313 105.335  23.345  1.00 84.44      A16S
ATOM  22125  O3* G  A1050     210.627 105.100  21.973  1.00 84.44      A16S
ATOM  22126  P   C  A1051     209.869 105.961  20.831  1.00 86.83      A16S
ATOM  22127  O1P C  A1051     210.587 105.796  19.537  1.00 72.71      A16S
ATOM  22128  O2P C  A1051     209.635 107.327  21.367  1.00 72.71      A16S
ATOM  22129  O5* C  A1051     208.439 105.268  20.689  1.00 86.83      A16S
ATOM  22130  C5* C  A1051     208.274 103.988  20.022  1.00 86.83      A16S
ATOM  22131  C4* C  A1051     206.814 103.755  19.674  1.00 86.83      A16S
ATOM  22132  O4* C  A1051     206.024 103.722  20.896  1.00 86.83      A16S
ATOM  22133  C1* C  A1051     204.746 104.296  20.658  1.00 86.83      A16S
ATOM  22134  N1  C  A1051     204.580 105.499  21.499  1.00 72.71      A16S
ATOM  22135  C6  C  A1051     205.647 106.116  22.088  1.00 72.71      A16S
ATOM  22136  C2  C  A1051     203.297 106.026  21.651  1.00 72.71      A16S
ATOM  22137  O2  C  A1051     202.343 105.417  21.156  1.00 72.71      A16S
ATOM  22138  N3  C  A1051     203.126 107.180  22.330  1.00 72.71      A16S
ATOM  22139  C4  C  A1051     204.176 107.797  22.866  1.00 72.71      A16S
ATOM  22140  N4  C  A1051     203.964 108.958  23.494  1.00 72.71      A16S
ATOM  22141  C5  C  A1051     205.493 107.258  22.773  1.00 72.71      A16S
ATOM  22142  C2* C  A1051     204.678 104.684  19.181  1.00 86.83      A16S
ATOM  22143  O2* C  A1051     204.031 103.682  18.427  1.00 86.83      A16S
ATOM  22144  C3* C  A1051     206.150 104.838  18.835  1.00 86.83      A16S
ATOM  22145  O3* C  A1051     206.368 104.695  17.445  1.00 86.83      A16S
ATOM  22146  P   U  A1052     206.209 105.978  16.487  1.00 69.76      A16S
ATOM  22147  O1P U  A1052     206.635 105.532  15.138  1.00 76.55      A16S
ATOM  22148  O2P U  A1052     206.856 107.169  17.106  1.00 76.55      A16S
ATOM  22149  O5* U  A1052     204.643 106.267  16.460  1.00 69.76      A16S
ATOM  22150  C5* U  A1052     203.722 105.309  15.912  1.00 69.76      A16S
ATOM  22151  C4* U  A1052     202.305 105.765  16.138  1.00 69.76      A16S
ATOM  22152  O4* U  A1052     202.048 105.855  17.562  1.00 69.76      A16S
ATOM  22153  C1* U  A1052     201.185 106.951  17.824  1.00 69.76      A16S
ATOM  22154  N1  U  A1052     201.865 107.897  18.728  1.00 76.55      A16S
ATOM  22155  C6  U  A1052     203.201 107.780  19.025  1.00 76.55      A16S
ATOM  22156  C2  U  A1052     201.115 108.926  19.269  1.00 76.55      A16S
ATOM  22157  O2  U  A1052     199.930 109.072  19.041  1.00 76.55      A16S
ATOM  22158  N3  U  A1052     201.806 109.782  20.092  1.00 76.55      A16S
ATOM  22159  C4  U  A1052     203.137 109.719  20.429  1.00 76.55      A16S
ATOM  22160  O4  U  A1052     203.599 110.530  21.236  1.00 76.55      A16S
ATOM  22161  C5  U  A1052     203.844 108.634  19.831  1.00 76.55      A16S
ATOM  22162  C2* U  A1052     200.821 107.580  16.478  1.00 69.76      A16S
ATOM  22163  O2* U  A1052     199.585 107.067  16.022  1.00 69.76      A16S
ATOM  22164  C3* U  A1052     201.987 107.148  15.607  1.00 69.76      A16S
ATOM  22165  O3* U  A1052     201.629 107.112  14.239  1.00 69.76      A16S
ATOM  22166  P   G  A1053     202.496 107.939  13.170  1.00 51.67      A16S
ATOM  22167  O1P G  A1053     201.883 107.713  11.834  1.00 82.69      A16S
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ATOM  22168  O2P G   A1053     203.925 107.573  13.400  1.00 82.69      A16S
ATOM  22169  O5* G   A1053     202.284 109.473  13.564  1.00 51.67      A16S
ATOM  22170  C5* G   A1053     202.975 110.506  12.842  1.00 51.67      A16S
ATOM  22171  C4* G   A1053     202.153 111.760  12.802  1.00 51.67      A16S
ATOM  22172  O4* G   A1053     202.497 112.605  13.929  1.00 51.67      A16S
ATOM  22173  C1* G   A1053     202.823 113.902  13.462  1.00 51.67      A16S
ATOM  22174  N9   G   A1053     203.891 114.466  14.279  1.00 82.69      A16S
ATOM  22175  C4   G   A1053     203.872 115.701  14.861  1.00 82.69      A16S
ATOM  22176  N3   G   A1053     202.866 116.589  14.780  1.00 82.69      A16S
ATOM  22177  C2   G   A1053     203.120 117.681  15.464  1.00 82.69      A16S
ATOM  22178  N2   G   A1053     202.213 118.658  15.506  1.00 82.69      A16S
ATOM  22179  N1   G   A1053     204.278 117.895  16.163  1.00 82.69      A16S
ATOM  22180  C6   G   A1053     205.332 116.994  16.256  1.00 82.69      A16S
ATOM  22181  O6   G   A1053     206.335 117.283  16.922  1.00 82.69      A16S
ATOM  22182  C5   G   A1053     205.067 115.811  15.530  1.00 82.69      A16S
ATOM  22183  N7   G   A1053     205.832 114.665  15.364  1.00 82.69      A16S
ATOM  22184  C8   G   A1053     205.096 113.893  14.616  1.00 82.69      A16S
ATOM  22185  C2* G   A1053     203.256 113.743  12.013  1.00 51.67      A16S
ATOM  22186  O2* G   A1053     202.960 114.922  11.292  1.00 51.67      A16S
ATOM  22187  C3* G   A1053     202.364 112.611  11.556  1.00 51.67      A16S
ATOM  22188  O3* G   A1053     201.152 113.193  11.128  1.00 51.67      A16S
ATOM  22189  P    C   A1054     200.786 113.147   9.583  1.00 65.54      A16S
ATOM  22190  O1P C   A1054     201.907 113.819   8.905  1.00 76.23      A16S
ATOM  22191  O2P C   A1054     199.405 113.647   9.388  1.00 76.23      A16S
ATOM  22192  O5* C   A1054     200.848 111.579   9.301  1.00 65.54      A16S
ATOM  22193  C5* C   A1054     200.654 110.616  10.388  1.00 65.54      A16S
ATOM  22194  C4* C   A1054     199.404 110.965  11.159  1.00 65.54      A16S
ATOM  22195  O4* C   A1054     198.390 111.299  10.190  1.00 65.54      A16S
ATOM  22196  C1* C   A1054     197.191 110.657  10.522  1.00 65.54      A16S
ATOM  22197  N1   C   A1054     196.958 109.618   9.493  1.00 76.23      A16S
ATOM  22198  C6   C   A1054     196.322 109.970   8.337  1.00 76.23      A16S
ATOM  22199  C2   C   A1054     197.415 108.286   9.673  1.00 76.23      A16S
ATOM  22200  O2   C   A1054     197.960 107.952  10.747  1.00 76.23      A16S
ATOM  22201  N3   C   A1054     197.244 107.401   8.659  1.00 76.23      A16S
ATOM  22202  C4   C   A1054     196.650 107.783   7.524  1.00 76.23      A16S
ATOM  22203  N4   C   A1054     196.531 106.894   6.539  1.00 76.23      A16S
ATOM  22204  C5   C   A1054     196.156 109.097   7.340  1.00 76.23      A16S
ATOM  22205  C2* C   A1054     197.316 110.252  11.990  1.00 65.54      A16S
ATOM  22206  O2* C   A1054     197.054 111.407  12.779  1.00 65.54      A16S
ATOM  22207  C3* C   A1054     198.793 109.926  12.094  1.00 65.54      A16S
ATOM  22208  O3* C   A1054     199.220 110.124  13.445  1.00 65.54      A16S
ATOM  22209  P    A   A1055     198.388 109.469  14.670  1.00 56.33      A16S
ATOM  22210  O1P A   A1055     199.224 109.609  15.872  1.00 82.85      A16S
ATOM  22211  O2P A   A1055     197.925 108.119  14.257  1.00 82.85      A16S
ATOM  22212  O5* A   A1055     197.143 110.443  14.891  1.00 56.33      A16S
ATOM  22213  C5* A   A1055     195.788 109.966  14.698  1.00 56.33      A16S
ATOM  22214  C4* A   A1055     194.800 110.805  15.476  1.00 56.33      A16S
ATOM  22215  O4* A   A1055     194.943 110.557  16.901  1.00 56.33      A16S
ATOM  22216  C1* A   A1055     194.699 111.752  17.625  1.00 56.33      A16S
ATOM  22217  N9   A   A1055     195.940 112.138  18.306  1.00 82.85      A16S
ATOM  22218  C4   A   A1055     196.186 113.320  18.972  1.00 82.85      A16S
ATOM  22219  N3   A   A1055     195.341 114.347  19.160  1.00 82.85      A16S
ATOM  22220  C2   A   A1055     195.938 115.337  19.827  1.00 82.85      A16S
ATOM  22221  N1   A   A1055     197.190 115.417  20.286  1.00 82.85      A16S
ATOM  22222  C6   A   A1055     198.015 114.373  20.077  1.00 82.85      A16S
ATOM  22223  N6   A   A1055     199.269 114.462  20.516  1.00 82.85      A16S
ATOM  22224  C5   A   A1055     197.500 113.251  19.392  1.00 82.85      A16S
ATOM  22225  N7   A   A1055     198.067 112.040  19.022  1.00 82.85      A16S
ATOM  22226  C8   A   A1055     197.103 111.418  18.389  1.00 82.85      A16S
ATOM  22227  C2* A   A1055     194.250 112.801  16.607  1.00 56.33      A16S
ATOM  22228  O2* A   A1055     192.838 112.768  16.499  1.00 56.33      A16S
ATOM  22229  C3* A   A1055     194.936 112.305  15.342  1.00 56.33      A16S
ATOM  22230  O3* A   A1055     194.330 112.812  14.179  1.00 56.33      A16S
ATOM  22231  P    U   A1056     194.897 114.169  13.542  1.00 43.62      A16S
ATOM  22232  O1P U   A1056     193.982 114.644  12.472  1.00 84.31      A16S
ATOM  22233  O2P U   A1056     196.336 113.949  13.236  1.00 84.31      A16S
ATOM  22234  O5* U   A1056     194.823 115.223  14.736  1.00 43.62      A16S
ATOM  22235  C5* U   A1056     195.447 116.509  14.591  1.00 43.62      A16S
ATOM  22236  C4* U   A1056     195.640 117.193  15.927  1.00 43.62      A16S
ATOM  22237  O4* U   A1056     196.402 116.364  16.842  1.00 43.62      A16S
ATOM  22238  C1* U   A1056     197.180 117.196  17.686  1.00 43.62      A16S
ATOM  22239  N1   U   A1056     198.548 116.659  17.787  1.00 84.31      A16S
ATOM  22240  C6   U   A1056     198.919 115.512  17.127  1.00 84.31      A16S
ATOM  22241  C2   U   A1056     199.462 117.348  18.576  1.00 84.31      A16S
ATOM  22242  O2   U   A1056     199.182 118.376  19.184  1.00 84.31      A16S
ATOM  22243  N3   U   A1056     200.720 116.792  18.625  1.00 84.31      A16S
ATOM  22244  C4   U   A1056     201.152 115.645  17.986  1.00 84.31      A16S
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ATOM  22245  O4  U  A1056     202.321 115.268  18.125  1.00 84.31      A16S
ATOM  22246  C5  U  A1056     200.154 114.996  17.199  1.00 84.31      A16S
ATOM  22247  C2* U  A1056     197.081 118.636  17.175  1.00 43.62      A16S
ATOM  22248  O2* U  A1056     196.258 119.403  18.019  1.00 43.62      A16S
ATOM  22249  C3* U  A1056     196.479 118.449  15.794  1.00 43.62      A16S
ATOM  22250  O3* U  A1056     195.690 119.552  15.403  1.00 43.62      A16S
ATOM  22251  P   G  A1057     196.408 120.854  14.811  1.00 48.07      A16S
ATOM  22252  O1P G  A1057     195.383 121.736  14.193  1.00116.12      A16S
ATOM  22253  O2P G  A1057     197.577 120.418  14.001  1.00116.12      A16S
ATOM  22254  O5* G  A1057     196.978 121.579  16.110  1.00 48.07      A16S
ATOM  22255  C5* G  A1057     196.093 122.237  17.033  1.00 48.07      A16S
ATOM  22256  C4* G  A1057     196.874 123.115  17.982  1.00 48.07      A16S
ATOM  22257  O4* G  A1057     197.722 122.281  18.800  1.00 48.07      A16S
ATOM  22258  C1* G  A1057     198.929 122.961  19.068  1.00 48.07      A16S
ATOM  22259  N9  G  A1057     200.032 122.116  18.633  1.00116.12      A16S
ATOM  22260  C4  G  A1057     201.322 122.172  19.083  1.00116.12      A16S
ATOM  22261  N3  G  A1057     201.799 123.030  20.005  1.00116.12      A16S
ATOM  22262  C2  G  A1057     203.077 122.822  20.249  1.00116.12      A16S
ATOM  22263  N2  G  A1057     203.716 123.580  21.144  1.00116.12      A16S
ATOM  22264  N1  G  A1057     203.826 121.851  19.631  1.00116.12      A16S
ATOM  22265  C6  G  A1057     203.351 120.965  18.672  1.00116.12      A16S
ATOM  22266  O6  G  A1057     204.113 120.135  18.163  1.00116.12      A16S
ATOM  22267  C5  G  A1057     201.986 121.172  18.410  1.00116.12      A16S
ATOM  22268  N7  G  A1057     201.132 120.506  17.548  1.00116.12      A16S
ATOM  22269  C8  G  A1057     199.986 121.102  17.710  1.00116.12      A16S
ATOM  22270  C2* G  A1057     198.874 124.335  18.400  1.00 48.07      A16S
ATOM  22271  O2* G  A1057     198.502 125.272  19.380  1.00 48.07      A16S
ATOM  22272  C3* G  A1057     197.797 124.138  17.343  1.00 48.07      A16S
ATOM  22273  O3* G  A1057     197.092 125.345  17.113  1.00 48.07      A16S
ATOM  22274  P   G  A1058     197.596 126.356  15.972  1.00 50.63      A16S
ATOM  22275  O1P G  A1058     196.860 127.642  16.079  1.00 91.81      A16S
ATOM  22276  O2P G  A1058     197.572 125.615  14.686  1.00 91.81      A16S
ATOM  22277  O5* G  A1058     199.117 126.633  16.357  1.00 50.63      A16S
ATOM  22278  C5* G  A1058     199.462 127.366  17.545  1.00 50.63      A16S
ATOM  22279  C4* G  A1058     200.953 127.306  17.786  1.00 50.63      A16S
ATOM  22280  O4* G  A1058     201.369 125.961  18.142  1.00 50.63      A16S
ATOM  22281  C1* G  A1058     202.662 125.712  17.616  1.00 50.63      A16S
ATOM  22282  N9  G  A1058     202.580 124.549  16.736  1.00 91.81      A16S
ATOM  22283  C4  G  A1058     203.569 123.618  16.488  1.00 91.81      A16S
ATOM  22284  N3  G  A1058     204.806 123.596  17.036  1.00 91.81      A16S
ATOM  22285  C2  G  A1058     205.526 122.574  16.592  1.00 91.81      A16S
ATOM  22286  N2  G  A1058     206.777 122.383  17.039  1.00 91.81      A16S
ATOM  22287  N1  G  A1058     205.075 121.661  15.680  1.00 91.81      A16S
ATOM  22288  C6  G  A1058     203.816 121.670  15.096  1.00 91.81      A16S
ATOM  22289  O6  G  A1058     203.522 120.809  14.259  1.00 91.81      A16S
ATOM  22290  C5  G  A1058     203.025 122.746  15.573  1.00 91.81      A16S
ATOM  22291  N7  G  A1058     201.723 123.110  15.260  1.00 91.81      A16S
ATOM  22292  C8  G  A1058     201.502 124.178  15.973  1.00 91.81      A16S
ATOM  22293  C2* G  A1058     203.123 126.978  16.875  1.00 50.63      A16S
ATOM  22294  O2* G  A1058     203.979 127.765  17.676  1.00 50.63      A16S
ATOM  22295  C3* G  A1058     201.807 127.682  16.593  1.00 50.63      A16S
ATOM  22296  O3* G  A1058     201.977 129.079  16.526  1.00 50.63      A16S
ATOM  22297  P   C  A1059     202.131 129.781  15.099  1.00 53.23      A16S
ATOM  22298  O1P C  A1059     202.355 131.234  15.316  1.00 93.75      A16S
ATOM  22299  O2P C  A1059     201.010 129.336  14.238  1.00 93.75      A16S
ATOM  22300  O5* C  A1059     203.484 129.146  14.553  1.00 53.23      A16S
ATOM  22301  C5* C  A1059     204.737 129.457  15.184  1.00 53.23      A16S
ATOM  22302  C4* C  A1059     205.861 128.629  14.598  1.00 53.23      A16S
ATOM  22303  O4* C  A1059     205.778 127.245  15.033  1.00 53.23      A16S
ATOM  22304  C1* C  A1059     206.361 126.410  14.051  1.00 53.23      A16S
ATOM  22305  N1  C  A1059     205.357 125.445  13.573  1.00 93.75      A16S
ATOM  22306  C6  C  A1059     204.066 125.826  13.325  1.00 93.75      A16S
ATOM  22307  C2  C  A1059     205.757 124.125  13.346  1.00 93.75      A16S
ATOM  22308  O2  C  A1059     206.925 123.794  13.613  1.00 93.75      A16S
ATOM  22309  N3  C  A1059     204.862 123.242  12.846  1.00 93.75      A16S
ATOM  22310  C4  C  A1059     203.612 123.631  12.588  1.00 93.75      A16S
ATOM  22311  N4  C  A1059     202.770 122.727  12.086  1.00 93.75      A16S
ATOM  22312  C5  C  A1059     203.171 124.961  12.834  1.00 93.75      A16S
ATOM  22313  C2* C  A1059     206.839 127.308  12.911  1.00 53.23      A16S
ATOM  22314  O2* C  A1059     208.203 127.593  13.119  1.00 53.23      A16S
ATOM  22315  C3* C  A1059     205.965 128.538  13.091  1.00 53.23      A16S
ATOM  22316  O3* C  A1059     206.572 129.677  12.528  1.00 53.23      A16S
ATOM  22317  P   C  A1060     206.343 129.994  10.972  1.00 54.85      A16S
ATOM  22318  O1P C  A1060     206.974 131.305  10.627  1.00 67.20      A16S
ATOM  22319  O2P C  A1060     204.890 129.804  10.737  1.00 67.20      A16S
ATOM  22320  O5* C  A1060     207.133 128.822  10.218  1.00 54.85      A16S
ATOM  22321  C5* C  A1060     208.580 128.734  10.282  1.00 54.85      A16S
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ATOM  22322  C4* C   A1060     209.093 127.497   9.562  1.00 54.85      A16S
ATOM  22323  O4* C   A1060     208.538 126.309  10.182  1.00 54.85      A16S
ATOM  22324  C1* C   A1060     208.294 125.317   9.196  1.00 54.85      A16S
ATOM  22325  N1   C   A1060     206.828 125.156   9.054  1.00 67.20      A16S
ATOM  22326  C6   C   A1060     206.010 126.257   9.030  1.00 67.20      A16S
ATOM  22327  C2   C   A1060     206.283 123.871   8.903  1.00 67.20      A16S
ATOM  22328  O2   C   A1060     207.027 122.886   8.963  1.00 67.20      A16S
ATOM  22329  N3   C   A1060     204.952 123.747   8.691  1.00 67.20      A16S
ATOM  22330  C4   C   A1060     204.175 124.838   8.628  1.00 67.20      A16S
ATOM  22331  N4   C   A1060     202.877 124.678   8.371  1.00 67.20      A16S
ATOM  22332  C5   C   A1060     204.698 126.144   8.814  1.00 67.20      A16S
ATOM  22333  C2* C   A1060     208.874 125.847   7.885  1.00 54.85      A16S
ATOM  22334  O2* C   A1060     210.211 125.435   7.751  1.00 54.85      A16S
ATOM  22335  C3* C   A1060     208.752 127.344   8.089  1.00 54.85      A16S
ATOM  22336  O3* C   A1060     209.625 128.043   7.240  1.00 54.85      A16S
ATOM  22337  P    G   A1061     209.127 128.458   5.774  1.00 38.86      A16S
ATOM  22338  O1P G   A1061     209.999 129.544   5.250  1.00 77.48      A16S
ATOM  22339  O2P G   A1061     207.663 128.661   5.819  1.00 77.48      A16S
ATOM  22340  O5* G   A1061     209.397 127.154   4.901  1.00 38.86      A16S
ATOM  22341  C5* G   A1061     210.605 126.374   5.048  1.00 38.86      A16S
ATOM  22342  C4* G   A1061     210.493 125.095   4.251  1.00 38.86      A16S
ATOM  22343  O4* G   A1061     209.644 124.136   4.935  1.00 38.86      A16S
ATOM  22344  C1* G   A1061     208.837 123.442   3.986  1.00 38.86      A16S
ATOM  22345  N9   G   A1061     207.432 123.767   4.246  1.00 77.48      A16S
ATOM  22346  C4   G   A1061     206.322 123.163   3.699  1.00 77.48      A16S
ATOM  22347  N3   G   A1061     206.323 122.137   2.824  1.00 77.48      A16S
ATOM  22348  C2   G   A1061     205.096 121.791   2.474  1.00 77.48      A16S
ATOM  22349  N2   G   A1061     204.908 120.795   1.607  1.00 77.48      A16S
ATOM  22350  N1   G   A1061     203.962 122.397   2.950  1.00 77.48      A16S
ATOM  22351  C6   G   A1061     203.941 123.452   3.853  1.00 77.48      A16S
ATOM  22352  O6   G   A1061     202.863 123.927   4.228  1.00 77.48      A16S
ATOM  22353  C5   G   A1061     205.242 123.839   4.227  1.00 77.48      A16S
ATOM  22354  N7   G   A1061     205.659 124.841   5.088  1.00 77.48      A16S
ATOM  22355  C8   G   A1061     206.959 124.757   5.075  1.00 77.48      A16S
ATOM  22356  C2* G   A1061     209.275 123.898   2.595  1.00 38.86      A16S
ATOM  22357  O2* G   A1061     210.250 123.018   2.091  1.00 38.86      A16S
ATOM  22358  C3* G   A1061     209.853 125.271   2.887  1.00 38.86      A16S
ATOM  22359  O3* G   A1061     210.783 125.669   1.910  1.00 38.86      A16S
ATOM  22360  P    U   A1062     210.281 126.563   0.688  1.00 52.44      A16S
ATOM  22361  O1P U   A1062     211.421 126.753  -0.240  1.00 87.04      A16S
ATOM  22362  O2P U   A1062     209.589 127.750   1.248  1.00 87.04      A16S
ATOM  22363  O5* U   A1062     209.214 125.614  -0.017  1.00 52.44      A16S
ATOM  22364  C5* U   A1062     209.601 124.315  -0.526  1.00 52.44      A16S
ATOM  22365  C4* U   A1062     208.442 123.652  -1.235  1.00 52.44      A16S
ATOM  22366  O4* U   A1062     207.473 123.179  -0.270  1.00 52.44      A16S
ATOM  22367  C1* U   A1062     206.164 123.362  -0.786  1.00 52.44      A16S
ATOM  22368  N1   U   A1062     205.426 124.257   0.119  1.00 87.04      A16S
ATOM  22369  C6   U   A1062     206.058 125.252   0.818  1.00 87.04      A16S
ATOM  22370  C2   U   A1062     204.069 124.072   0.233  1.00 87.04      A16S
ATOM  22371  O2   U   A1062     203.468 123.194  -0.353  1.00 87.04      A16S
ATOM  22372  N3   U   A1062     203.436 124.951   1.064  1.00 87.04      A16S
ATOM  22373  C4   U   A1062     204.006 125.964   1.782  1.00 87.04      A16S
ATOM  22374  O4   U   A1062     203.300 126.653   2.508  1.00 87.04      A16S
ATOM  22375  C5   U   A1062     205.410 126.088   1.624  1.00 87.04      A16S
ATOM  22376  C2* U   A1062     206.282 123.936  -2.202  1.00 52.44      A16S
ATOM  22377  O2* U   A1062     206.189 122.905  -3.161  1.00 52.44      A16S
ATOM  22378  C3* U   A1062     207.664 124.567  -2.165  1.00 52.44      A16S
ATOM  22379  O3* U   A1062     208.257 124.619  -3.445  1.00 52.44      A16S
ATOM  22380  P    C   A1063     208.210 125.984  -4.278  1.00 43.43      A16S
ATOM  22381  O1P C   A1063     209.384 125.993  -5.189  1.00 70.24      A16S
ATOM  22382  O2P C   A1063     207.995 127.123  -3.350  1.00 70.24      A16S
ATOM  22383  O5* C   A1063     206.914 125.812  -5.173  1.00 43.43      A16S
ATOM  22384  C5* C   A1063     206.831 124.732  -6.109  1.00 43.43      A16S
ATOM  22385  C4* C   A1063     205.411 124.532  -6.534  1.00 43.43      A16S
ATOM  22386  O4* C   A1063     204.651 124.069  -5.396  1.00 43.43      A16S
ATOM  22387  C1* C   A1063     203.361 124.652  -5.422  1.00 43.43      A16S
ATOM  22388  N1   C   A1063     203.180 125.444  -4.186  1.00 70.24      A16S
ATOM  22389  C6   C   A1063     204.197 126.214  -3.692  1.00 70.24      A16S
ATOM  22390  C2   C   A1063     201.943 125.414  -3.534  1.00 70.24      A16S
ATOM  22391  O2   C   A1063     201.041 124.687  -3.981  1.00 70.24      A16S
ATOM  22392  N3   C   A1063     201.761 126.179  -2.433  1.00 70.24      A16S
ATOM  22393  C4   C   A1063     202.754 126.946  -1.982  1.00 70.24      A16S
ATOM  22394  N4   C   A1063     202.522 127.706  -0.918  1.00 70.24      A16S
ATOM  22395  C5   C   A1063     204.026 126.973  -2.607  1.00 70.24      A16S
ATOM  22396  C2* C   A1063     203.259 125.492  -6.700  1.00 43.43      A16S
ATOM  22397  O2* C   A1063     202.715 124.723  -7.754  1.00 43.43      A16S
ATOM  22398  C3* C   A1063     204.715 125.799  -6.984  1.00 43.43      A16S
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ATOM  22399  O3* C   A1063     204.919 126.039  -8.353  1.00 43.43      A16S
ATOM  22400  P   G   A1064     204.585 127.485  -8.949  1.00 43.65      A16S
ATOM  22401  O1P G   A1064     203.142 127.686  -8.689  1.00 76.31      A16S
ATOM  22402  O2P G   A1064     205.090 127.605 -10.342  1.00 76.31      A16S
ATOM  22403  O5* G   A1064     205.426 128.458  -7.995  1.00 43.65      A16S
ATOM  22404  C5* G   A1064     205.637 129.882  -8.299  1.00 43.65      A16S
ATOM  22405  C4* G   A1064     205.908 130.651  -7.013  1.00 43.65      A16S
ATOM  22406  O4* G   A1064     204.655 130.842  -6.305  1.00 43.65      A16S
ATOM  22407  C1* G   A1064     204.734 130.213  -5.044  1.00 43.65      A16S
ATOM  22408  N9  G   A1064     203.421 129.674  -4.705  1.00 76.31      A16S
ATOM  22409  C4  G   A1064     202.692 129.983  -3.586  1.00 76.31      A16S
ATOM  22410  N3  G   A1064     203.072 130.821  -2.601  1.00 76.31      A16S
ATOM  22411  C2  G   A1064     202.150 130.934  -1.667  1.00 76.31      A16S
ATOM  22412  N2  G   A1064     202.360 131.730  -0.628  1.00 76.31      A16S
ATOM  22413  N1  G   A1064     200.952 130.274  -1.686  1.00 76.31      A16S
ATOM  22414  C6  G   A1064     200.537 129.404  -2.684  1.00 76.31      A16S
ATOM  22415  O6  G   A1064     199.426 128.860  -2.601  1.00 76.31      A16S
ATOM  22416  C5  G   A1064     201.521 129.275  -3.705  1.00 76.31      A16S
ATOM  22417  N7  G   A1064     201.520 128.522  -4.869  1.00 76.31      A16S
ATOM  22418  C8  G   A1064     202.668 128.785  -5.425  1.00 76.31      A16S
ATOM  22419  C2* G   A1064     205.867 129.188  -5.138  1.00 43.65      A16S
ATOM  22420  O2* G   A1064     206.428 128.907  -3.876  1.00 43.65      A16S
ATOM  22421  C3* G   A1064     206.848 129.914  -6.048  1.00 43.65      A16S
ATOM  22422  O3* G   A1064     207.589 130.791  -5.178  1.00 43.65      A16S
ATOM  22423  P   U   A1065     208.720 131.774  -5.757  1.00 72.37      A16S
ATOM  22424  O1P U   A1065     208.865 131.593  -7.225  1.00 77.83      A16S
ATOM  22425  O2P U   A1065     209.897 131.636  -4.876  1.00 77.83      A16S
ATOM  22426  O5* U   A1065     208.075 133.210  -5.541  1.00 72.37      A16S
ATOM  22427  C5* U   A1065     206.789 133.496  -6.112  1.00 72.37      A16S
ATOM  22428  C4* U   A1065     206.445 134.948  -5.966  1.00 72.37      A16S
ATOM  22429  O4* U   A1065     205.982 135.286  -4.653  1.00 72.37      A16S
ATOM  22430  C1* U   A1065     205.935 136.689  -4.601  1.00 72.37      A16S
ATOM  22431  N1  U   A1065     205.754 137.120  -3.205  1.00 77.83      A16S
ATOM  22432  C6  U   A1065     206.388 136.486  -2.159  1.00 77.83      A16S
ATOM  22433  C2  U   A1065     204.896 138.184  -2.970  1.00 77.83      A16S
ATOM  22434  O2  U   A1065     204.337 138.802  -3.860  1.00 77.83      A16S
ATOM  22435  N3  U   A1065     204.718 138.504  -1.650  1.00 77.83      A16S
ATOM  22436  C4  U   A1065     205.302 137.896  -0.561  1.00 77.83      A16S
ATOM  22437  O4  U   A1065     205.005 138.277   0.568  1.00 77.83      A16S
ATOM  22438  C5  U   A1065     206.195 136.829  -0.879  1.00 77.83      A16S
ATOM  22439  C2* U   A1065     207.190 137.168  -5.343  1.00 72.37      A16S
ATOM  22440  O2* U   A1065     206.955 138.383  -6.032  1.00 72.37      A16S
ATOM  22441  C3* U   A1065     207.559 135.942  -6.212  1.00 72.37      A16S
ATOM  22442  O3* U   A1065     207.773 136.112  -7.623  1.00 72.37      A16S
ATOM  22443  P   C   A1066     206.571 136.578  -8.589  1.00 45.38      A16S
ATOM  22444  O1P C   A1066     207.157 136.714  -9.955  1.00 76.12      A16S
ATOM  22445  O2P C   A1066     205.825 137.730  -8.001  1.00 76.12      A16S
ATOM  22446  O5* C   A1066     205.603 135.313  -8.608  1.00 45.38      A16S
ATOM  22447  C5* C   A1066     205.719 134.313  -9.637  1.00 45.38      A16S
ATOM  22448  C4* C   A1066     204.402 133.593  -9.843  1.00 45.38      A16S
ATOM  22449  O4* C   A1066     204.116 132.774  -8.688  1.00 45.38      A16S
ATOM  22450  C1* C   A1066     202.719 132.690  -8.513  1.00 45.38      A16S
ATOM  22451  N1  C   A1066     202.400 133.035  -7.110  1.00 76.12      A16S
ATOM  22452  C6  C   A1066     202.657 134.280  -6.613  1.00 76.12      A16S
ATOM  22453  C2  C   A1066     201.835 132.058  -6.287  1.00 76.12      A16S
ATOM  22454  O2  C   A1066     201.614 130.939  -6.751  1.00 76.12      A16S
ATOM  22455  N3  C   A1066     201.548 132.355  -5.004  1.00 76.12      A16S
ATOM  22456  C4  C   A1066     201.808 133.568  -4.530  1.00 76.12      A16S
ATOM  22457  N4  C   A1066     201.512 133.815  -3.256  1.00 76.12      A16S
ATOM  22458  C5  C   A1066     202.383 134.583  -5.341  1.00 76.12      A16S
ATOM  22459  C2* C   A1066     202.038 133.518  -9.614  1.00 45.38      A16S
ATOM  22460  O2* C   A1066     201.646 132.662 -10.665  1.00 45.38      A16S
ATOM  22461  C3* C   A1066     203.158 134.440 -10.078  1.00 45.38      A16S
ATOM  22462  O3* C   A1066     202.997 134.697 -11.473  1.00 45.38      A16S
ATOM  22463  P   A   A1067     202.213 136.016 -11.973  1.00 53.25      A16S
ATOM  22464  O1P A   A1067     202.067 136.038 -13.454  1.00 51.31      A16S
ATOM  22465  O2P A   A1067     202.861 137.163 -11.298  1.00 51.31      A16S
ATOM  22466  O5* A   A1067     200.754 135.828 -11.379  1.00 53.25      A16S
ATOM  22467  C5* A   A1067     199.890 134.772 -11.846  1.00 53.25      A16S
ATOM  22468  C4* A   A1067     198.442 135.212 -11.768  1.00 53.25      A16S
ATOM  22469  O4* A   A1067     198.009 135.281 -10.381  1.00 53.25      A16S
ATOM  22470  C1* A   A1067     197.936 136.628  -9.950  1.00 53.25      A16S
ATOM  22471  N9  A   A1067     198.877 136.752  -8.825  1.00 51.31      A16S
ATOM  22472  C4  A   A1067     198.595 136.678  -7.480  1.00 51.31      A16S
ATOM  22473  N3  A   A1067     197.395 136.522  -6.899  1.00 51.31      A16S
ATOM  22474  C2  A   A1067     197.518 136.460  -5.571  1.00 51.31      A16S
ATOM  22475  N1  A   A1067     198.618 136.537  -4.816  1.00 51.31      A16S
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ATOM  22476  C6  A  A1067     199.804 136.710  -5.430  1.00 51.31      A16S
ATOM  22477  N6  A  A1067     200.893 136.813  -4.678  1.00 51.31      A16S
ATOM  22478  C5  A  A1067     199.814 136.778  -6.830  1.00 51.31      A16S
ATOM  22479  N7  A  A1067     200.840 136.933  -7.740  1.00 51.31      A16S
ATOM  22480  C8  A  A1067     200.235 136.922  -8.901  1.00 51.31      A16S
ATOM  22481  C2* A  A1067     198.263 137.530 -11.150  1.00 53.25      A16S
ATOM  22482  O2* A  A1067     197.442 138.671 -11.248  1.00 53.25      A16S
ATOM  22483  C3* A  A1067     198.177 136.583 -12.359  1.00 53.25      A16S
ATOM  22484  O3* A  A1067     196.997 136.554 -13.179  1.00 53.25      A16S
ATOM  22485  P   G  A1068     195.540 136.405 -12.520  1.00 43.75      A16S
ATOM  22486  O1P G  A1068     194.544 136.618 -13.589  1.00 43.08      A16S
ATOM  22487  O2P G  A1068     195.486 137.234 -11.317  1.00 43.08      A16S
ATOM  22488  O5* G  A1068     195.460 134.886 -12.062  1.00 43.75      A16S
ATOM  22489  C5* G  A1068     194.347 134.407 -11.309  1.00 43.75      A16S
ATOM  22490  C4* G  A1068     194.826 133.845 -10.003  1.00 43.75      A16S
ATOM  22491  O4* G  A1068     195.611 134.854  -9.325  1.00 43.75      A16S
ATOM  22492  C1* G  A1068     195.298 134.871  -7.935  1.00 43.75      A16S
ATOM  22493  N9  G  A1068     194.685 136.166  -7.621  1.00 43.08      A16S
ATOM  22494  C4  G  A1068     194.205 136.589  -6.405  1.00 43.08      A16S
ATOM  22495  N3  G  A1068     194.171 135.869  -5.271  1.00 43.08      A16S
ATOM  22496  C2  G  A1068     193.672 136.565  -4.264  1.00 43.08      A16S
ATOM  22497  N2  G  A1068     193.578 136.013  -3.057  1.00 43.08      A16S
ATOM  22498  N1  G  A1068     193.234 137.860  -4.361  1.00 43.08      A16S
ATOM  22499  C6  G  A1068     193.265 138.624  -5.519  1.00 43.08      A16S
ATOM  22500  O6  G  A1068     192.865 139.795  -5.498  1.00 43.08      A16S
ATOM  22501  C5  G  A1068     193.793 137.892  -6.608  1.00 43.08      A16S
ATOM  22502  N7  G  A1068     193.979 138.268  -7.927  1.00 43.08      A16S
ATOM  22503  C8  G  A1068     194.502 137.217  -8.490  1.00 43.08      A16S
ATOM  22504  C2* G  A1068     194.385 133.682  -7.667  1.00 43.75      A16S
ATOM  22505  O2* G  A1068     195.179 132.581  -7.281  1.00 43.75      A16S
ATOM  22506  C3* G  A1068     193.717 133.507  -9.028  1.00 43.75      A16S
ATOM  22507  O3* G  A1068     193.206 132.203  -9.243  1.00 43.75      A16S
ATOM  22508  P   C  A1069     191.636 131.935  -9.055  1.00 50.31      A16S
ATOM  22509  O1P C  A1069     191.406 130.504  -9.396  1.00 35.38      A16S
ATOM  22510  O2P C  A1069     190.872 133.024  -9.771  1.00 35.38      A16S
ATOM  22511  O5* C  A1069     191.423 132.056  -7.487  1.00 50.31      A16S
ATOM  22512  C5* C  A1069     191.928 131.046  -6.616  1.00 50.31      A16S
ATOM  22513  C4* C  A1069     191.485 131.309  -5.198  1.00 50.31      A16S
ATOM  22514  O4* C  A1069     192.056 132.558  -4.730  1.00 50.31      A16S
ATOM  22515  C1* C  A1069     191.161 133.185  -3.830  1.00 50.31      A16S
ATOM  22516  N1  C  A1069     190.795 134.503  -4.375  1.00 35.38      A16S
ATOM  22517  C6  C  A1069     190.929 134.776  -5.705  1.00 35.38      A16S
ATOM  22518  C2  C  A1069     190.312 135.482  -3.501  1.00 35.38      A16S
ATOM  22519  O2  C  A1069     190.179 135.193  -2.295  1.00 35.38      A16S
ATOM  22520  N3  C  A1069     189.997 136.714  -3.991  1.00 35.38      A16S
ATOM  22521  C4  C  A1069     190.139 136.966  -5.294  1.00 35.38      A16S
ATOM  22522  N4  C  A1069     189.823 138.182  -5.746  1.00 35.38      A16S
ATOM  22523  C5  C  A1069     190.614 135.981  -6.201  1.00 35.38      A16S
ATOM  22524  C2* C  A1069     189.956 132.266  -3.658  1.00 50.31      A16S
ATOM  22525  O2* C  A1069     190.136 131.467  -2.494  1.00 50.31      A16S
ATOM  22526  C3* C  A1069     189.993 131.475  -4.964  1.00 50.31      A16S
ATOM  22527  O3* C  A1069     189.300 130.235  -4.888  1.00 50.31      A16S
ATOM  22528  P   U  A1070     187.704 130.228  -4.995  1.00 68.52      A16S
ATOM  22529  O1P U  A1070     187.279 128.899  -4.519  1.00 37.53      A16S
ATOM  22530  O2P U  A1070     187.298 130.703  -6.336  1.00 37.53      A16S
ATOM  22531  O5* U  A1070     187.296 131.309  -3.901  1.00 68.52      A16S
ATOM  22532  C5* U  A1070     186.023 131.971  -3.899  1.00 68.52      A16S
ATOM  22533  C4* U  A1070     185.895 132.814  -2.645  1.00 68.52      A16S
ATOM  22534  O4* U  A1070     186.924 133.841  -2.620  1.00 68.52      A16S
ATOM  22535  C1* U  A1070     186.401 135.038  -2.069  1.00 68.52      A16S
ATOM  22536  N1  U  A1070     186.370 136.051  -3.135  1.00 37.53      A16S
ATOM  22537  C6  U  A1070     186.758 135.731  -4.402  1.00 37.53      A16S
ATOM  22538  C2  U  A1070     185.939 137.341  -2.834  1.00 37.53      A16S
ATOM  22539  O2  U  A1070     185.573 137.691  -1.719  1.00 37.53      A16S
ATOM  22540  N3  U  A1070     185.949 138.212  -3.891  1.00 37.53      A16S
ATOM  22541  C4  U  A1070     186.330 137.939  -5.178  1.00 37.53      A16S
ATOM  22542  O4  U  A1070     186.304 138.833  -6.025  1.00 37.53      A16S
ATOM  22543  C5  U  A1070     186.752 136.603  -5.400  1.00 37.53      A16S
ATOM  22544  C2* U  A1070     185.005 134.708  -1.555  1.00 68.52      A16S
ATOM  22545  O2* U  A1070     185.127 134.253  -0.224  1.00 68.52      A16S
ATOM  22546  C3* U  A1070     184.600 133.582  -2.491  1.00 68.52      A16S
ATOM  22547  O3* U  A1070     183.595 132.761  -1.932  1.00 68.52      A16S
ATOM  22548  P   C  A1071     182.057 133.090  -2.232  1.00 63.44      A16S
ATOM  22549  O1P C  A1071     181.316 131.911  -1.723  1.00 49.40      A16S
ATOM  22550  O2P C  A1071     181.885 133.521  -3.644  1.00 49.40      A16S
ATOM  22551  O5* C  A1071     181.766 134.357  -1.319  1.00 63.44      A16S
ATOM  22552  C5* C  A1071     182.113 134.353   0.075  1.00 63.44      A16S
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ATOM  22553  C4* C   A1071     181.920 135.727   0.652  1.00 63.44      A16S
ATOM  22554  O4* C   A1071     182.810 136.638  -0.023  1.00 63.44      A16S
ATOM  22555  C1* C   A1071     182.182 137.896  -0.156  1.00 63.44      A16S
ATOM  22556  N1   C   A1071     182.201 138.300  -1.566  1.00 49.40      A16S
ATOM  22557  C6   C   A1071     182.451 137.398  -2.560  1.00 49.40      A16S
ATOM  22558  C2   C   A1071     181.980 139.647  -1.875  1.00 49.40      A16S
ATOM  22559  O2   C   A1071     181.707 140.436  -0.960  1.00 49.40      A16S
ATOM  22560  N3   C   A1071     182.063 140.055  -3.156  1.00 49.40      A16S
ATOM  22561  C4   C   A1071     182.338 139.176  -4.115  1.00 49.40      A16S
ATOM  22562  N4   C   A1071     182.439 139.629  -5.354  1.00 49.40      A16S
ATOM  22563  C5   C   A1071     182.530 137.790  -3.839  1.00 49.40      A16S
ATOM  22564  C2* C   A1071     180.789 137.818   0.456  1.00 63.44      A16S
ATOM  22565  O2* C   A1071     180.849 138.366   1.757  1.00 63.44      A16S
ATOM  22566  C3* C   A1071     180.534 136.317   0.440  1.00 63.44      A16S
ATOM  22567  O3* C   A1071     179.660 135.910   1.485  1.00 63.44      A16S
ATOM  22568  P    G   A1072     178.071 135.920   1.252  1.00 55.69      A16S
ATOM  22569  O1P G   A1072     177.561 135.323   2.512  1.00 43.59      A16S
ATOM  22570  O2P G   A1072     177.707 135.325  -0.045  1.00 43.59      A16S
ATOM  22571  O5* G   A1072     177.694 137.465   1.133  1.00 55.69      A16S
ATOM  22572  C5* G   A1072     177.652 138.307   2.290  1.00 55.69      A16S
ATOM  22573  C4* G   A1072     177.204 139.695   1.912  1.00 55.69      A16S
ATOM  22574  O4* G   A1072     178.229 140.362   1.139  1.00 55.69      A16S
ATOM  22575  C1* G   A1072     177.626 141.286   0.245  1.00 55.69      A16S
ATOM  22576  N9   G   A1072     178.062 140.980  -1.120  1.00 43.59      A16S
ATOM  22577  C4   G   A1072     178.093 141.849  -2.184  1.00 43.59      A16S
ATOM  22578  N3   G   A1072     177.761 143.150  -2.152  1.00 43.59      A16S
ATOM  22579  C2   G   A1072     177.876 143.719  -3.344  1.00 43.59      A16S
ATOM  22580  N2   G   A1072     177.604 145.005  -3.496  1.00 43.59      A16S
ATOM  22581  N1   G   A1072     178.270 143.068  -4.476  1.00 43.59      A16S
ATOM  22582  C6   G   A1072     178.607 141.724  -4.542  1.00 43.59      A16S
ATOM  22583  O6   G   A1072     178.926 141.225  -5.630  1.00 43.59      A16S
ATOM  22584  C5   G   A1072     178.509 141.096  -3.262  1.00 43.59      A16S
ATOM  22585  N7   G   A1072     178.765 139.788  -2.881  1.00 43.59      A16S
ATOM  22586  C8   G   A1072     178.493 139.764  -1.605  1.00 43.59      A16S
ATOM  22587  C2* G   A1072     176.108 141.181   0.434  1.00 55.69      A16S
ATOM  22588  O2* G   A1072     175.647 142.187   1.316  1.00 55.69      A16S
ATOM  22589  C3* G   A1072     175.962 139.797   1.048  1.00 55.69      A16S
ATOM  22590  O3* G   A1072     174.781 139.689   1.820  1.00 55.69      A16S
ATOM  22591  P    U   A1073     173.553 138.801   1.280  1.00 44.71      A16S
ATOM  22592  O1P U   A1073     172.650 138.615   2.443  1.00 57.12      A16S
ATOM  22593  O2P U   A1073     174.102 137.607   0.589  1.00 57.12      A16S
ATOM  22594  O5* U   A1073     172.858 139.754   0.207  1.00 44.71      A16S
ATOM  22595  C5* U   A1073     172.280 140.983   0.627  1.00 44.71      A16S
ATOM  22596  C4* U   A1073     172.305 141.988  -0.485  1.00 44.71      A16S
ATOM  22597  O4* U   A1073     173.674 142.214  -0.911  1.00 44.71      A16S
ATOM  22598  C1* U   A1073     173.690 142.607  -2.281  1.00 44.71      A16S
ATOM  22599  N1   U   A1073     174.502 141.653  -3.056  1.00 57.12      A16S
ATOM  22600  C6   U   A1073     174.837 140.418  -2.558  1.00 57.12      A16S
ATOM  22601  C2   U   A1073     174.882 142.028  -4.335  1.00 57.12      A16S
ATOM  22602  O2   U   A1073     174.656 143.136  -4.794  1.00 57.12      A16S
ATOM  22603  N3   U   A1073     175.533 141.055  -5.053  1.00 57.12      A16S
ATOM  22604  C4   U   A1073     175.849 139.781  -4.632  1.00 57.12      A16S
ATOM  22605  O4   U   A1073     176.252 138.949  -5.456  1.00 57.12      A16S
ATOM  22606  C5   U   A1073     175.478 139.499  -3.279  1.00 57.12      A16S
ATOM  22607  C2* U   A1073     172.242 142.579  -2.776  1.00 44.71      A16S
ATOM  22608  O2* U   A1073     171.728 143.896  -2.786  1.00 44.71      A16S
ATOM  22609  C3* U   A1073     171.589 141.630  -1.771  1.00 44.71      A16S
ATOM  22610  O3* U   A1073     170.186 141.796  -1.678  1.00 44.71      A16S
ATOM  22611  P    G   A1074     169.212 140.727  -2.391  1.00 49.48      A16S
ATOM  22612  O1P G   A1074     167.828 140.939  -1.884  1.00 47.47      A16S
ATOM  22613  O2P G   A1074     169.827 139.384  -2.255  1.00 47.47      A16S
ATOM  22614  O5* G   A1074     169.243 141.187  -3.914  1.00 49.48      A16S
ATOM  22615  C5* G   A1074     168.847 142.520  -4.250  1.00 49.48      A16S
ATOM  22616  C4* G   A1074     169.255 142.858  -5.657  1.00 49.48      A16S
ATOM  22617  O4* G   A1074     170.696 142.967  -5.752  1.00 49.48      A16S
ATOM  22618  C1* G   A1074     171.121 142.558  -7.041  1.00 49.48      A16S
ATOM  22619  N9   G   A1074     172.008 141.411  -6.878  1.00 47.47      A16S
ATOM  22620  C4   G   A1074     172.865 140.906  -7.823  1.00 47.47      A16S
ATOM  22621  N3   G   A1074     173.031 141.385  -9.071  1.00 47.47      A16S
ATOM  22622  C2   G   A1074     173.920 140.698  -9.744  1.00 47.47      A16S
ATOM  22623  N2   G   A1074     174.186 141.046 -11.006  1.00 47.47      A16S
ATOM  22624  N1   G   A1074     174.607 139.619  -9.232  1.00 47.47      A16S
ATOM  22625  C6   G   A1074     174.453 139.101  -7.948  1.00 47.47      A16S
ATOM  22626  O6   G   A1074     175.125 138.109  -7.577  1.00 47.47      A16S
ATOM  22627  C5   G   A1074     173.490 139.835  -7.216  1.00 47.47      A16S
ATOM  22628  N7   G   A1074     173.027 139.666  -5.918  1.00 47.47      A16S
ATOM  22629  C8   G   A1074     172.153 140.622  -5.761  1.00 47.47      A16S
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ATOM  22630  C2* G   A1074     169.866 142.201  -7.839  1.00 49.48      A16S
ATOM  22631  O2* G   A1074     169.385 143.328  -8.541  1.00 49.48      A16S
ATOM  22632  C3* G   A1074     168.893 141.854  -6.730  1.00 49.48      A16S
ATOM  22633  O3* G   A1074     167.575 142.010  -7.181  1.00 49.48      A16S
ATOM  22634  P    C   A1075     166.772 140.722  -7.666  1.00 52.02      A16S
ATOM  22635  O1P C   A1075     165.375 141.130  -7.963  1.00 50.83      A16S
ATOM  22636  O2P C   A1075     167.041 139.648  -6.657  1.00 50.83      A16S
ATOM  22637  O5* C   A1075     167.460 140.361  -9.050  1.00 52.02      A16S
ATOM  22638  C5* C   A1075     167.382 141.280 -10.138  1.00 52.02      A16S
ATOM  22639  C4* C   A1075     168.269 140.835 -11.268  1.00 52.02      A16S
ATOM  22640  O4* C   A1075     169.659 140.900 -10.865  1.00 52.02      A16S
ATOM  22641  C1* C   A1075     170.388 139.862 -11.492  1.00 52.02      A16S
ATOM  22642  N1   C   A1075     170.890 138.960 -10.449  1.00 50.83      A16S
ATOM  22643  C6   C   A1075     170.378 138.996  -9.184  1.00 50.83      A16S
ATOM  22644  C2   C   A1075     171.896 138.059 -10.772  1.00 50.83      A16S
ATOM  22645  O2   C   A1075     172.336 138.052 -11.929  1.00 50.83      A16S
ATOM  22646  N3   C   A1075     172.362 137.220  -9.822  1.00 50.83      A16S
ATOM  22647  C4   C   A1075     171.851 137.264  -8.593  1.00 50.83      A16S
ATOM  22648  N4   C   A1075     172.326 136.420  -7.682  1.00 50.83      A16S
ATOM  22649  C5   C   A1075     170.825 138.176  -8.238  1.00 50.83      A16S
ATOM  22650  C2* C   A1075     169.425 139.137 -12.422  1.00 52.02      A16S
ATOM  22651  O2* C   A1075     169.504 139.738 -13.700  1.00 52.02      A16S
ATOM  22652  C3* C   A1075     168.093 139.410 -11.741  1.00 52.02      A16S
ATOM  22653  O3* C   A1075     166.995 139.262 -12.615  1.00 52.02      A16S
ATOM  22654  P    C   A1076     166.227 137.859 -12.655  1.00 52.49      A16S
ATOM  22655  O1P C   A1076     165.023 138.008 -13.524  1.00 33.88      A16S
ATOM  22656  O2P C   A1076     166.085 137.349 -11.272  1.00 33.88      A16S
ATOM  22657  O5* C   A1076     167.274 136.894 -13.351  1.00 52.49      A16S
ATOM  22658  C5* C   A1076     167.597 137.038 -14.733  1.00 52.49      A16S
ATOM  22659  C4* C   A1076     168.420 135.864 -15.180  1.00 52.49      A16S
ATOM  22660  O4* C   A1076     169.710 135.898 -14.531  1.00 52.49      A16S
ATOM  22661  C1* C   A1076     170.171 134.578 -14.338  1.00 52.49      A16S
ATOM  22662  N1   C   A1076     170.468 134.373 -12.925  1.00 33.88      A16S
ATOM  22663  C6   C   A1076     170.017 135.228 -11.967  1.00 33.88      A16S
ATOM  22664  C2   C   A1076     171.220 133.271 -12.580  1.00 33.88      A16S
ATOM  22665  O2   C   A1076     171.625 132.529 -13.488  1.00 33.88      A16S
ATOM  22666  N3   C   A1076     171.492 133.031 -11.283  1.00 33.88      A16S
ATOM  22667  C4   C   A1076     171.039 133.859 -10.351  1.00 33.88      A16S
ATOM  22668  N4   C   A1076     171.316 133.582  -9.080  1.00 33.88      A16S
ATOM  22669  C5   C   A1076     170.279 135.010 -10.678  1.00 33.88      A16S
ATOM  22670  C2* C   A1076     169.093 133.617 -14.825  1.00 52.49      A16S
ATOM  22671  O2* C   A1076     169.420 133.188 -16.131  1.00 52.49      A16S
ATOM  22672  C3* C   A1076     167.864 134.507 -14.799  1.00 52.49      A16S
ATOM  22673  O3* C   A1076     166.898 134.076 -15.722  1.00 52.49      A16S
ATOM  22674  P    G   A1077     165.702 133.152 -15.216  1.00 39.92      A16S
ATOM  22675  O1P G   A1077     164.799 132.978 -16.383  1.00 41.87      A16S
ATOM  22676  O2P G   A1077     165.187 133.729 -13.960  1.00 41.87      A16S
ATOM  22677  O5* G   A1077     166.404 131.776 -14.810  1.00 39.92      A16S
ATOM  22678  C5* G   A1077     167.033 130.939 -15.807  1.00 39.92      A16S
ATOM  22679  C4* G   A1077     167.729 129.756 -15.163  1.00 39.92      A16S
ATOM  22680  O4* G   A1077     168.877 130.186 -14.393  1.00 39.92      A16S
ATOM  22681  C1* G   A1077     169.174 129.204 -13.417  1.00 39.92      A16S
ATOM  22682  N9   G   A1077     169.341 129.845 -12.115  1.00 41.87      A16S
ATOM  22683  C4   G   A1077     169.924 129.290 -11.005  1.00 41.87      A16S
ATOM  22684  N3   G   A1077     170.541 128.099 -10.951  1.00 41.87      A16S
ATOM  22685  C2   G   A1077     170.973 127.824  -9.732  1.00 41.87      A16S
ATOM  22686  N2   G   A1077     171.691 126.709  -9.507  1.00 41.87      A16S
ATOM  22687  N1   G   A1077     170.754 128.626  -8.648  1.00 41.87      A16S
ATOM  22688  C6   G   A1077     170.101 129.846  -8.680  1.00 41.87      A16S
ATOM  22689  O6   G   A1077     169.922 130.476  -7.630  1.00 41.87      A16S
ATOM  22690  C5   G   A1077     169.700 130.185  -9.990  1.00 41.87      A16S
ATOM  22691  N7   G   A1077     169.069 131.321 -10.465  1.00 41.87      A16S
ATOM  22692  C8   G   A1077     168.887 131.080 -11.733  1.00 41.87      A16S
ATOM  22693  C2* G   A1077     168.029 128.182 -13.423  1.00 39.92      A16S
ATOM  22694  O2* G   A1077     168.403 127.026 -14.135  1.00 39.92      A16S
ATOM  22695  C3* G   A1077     166.936 128.918 -14.180  1.00 39.92      A16S
ATOM  22696  O3* G   A1077     166.108 127.978 -14.843  1.00 39.92      A16S
ATOM  22697  P    U   A1078     164.613 127.722 -14.313  1.00 34.56      A16S
ATOM  22698  O1P U   A1078     164.016 126.616 -15.094  1.00 48.22      A16S
ATOM  22699  O2P U   A1078     163.974 129.062 -14.341  1.00 48.22      A16S
ATOM  22700  O5* U   A1078     164.829 127.176 -12.828  1.00 34.56      A16S
ATOM  22701  C5* U   A1078     163.788 127.245 -11.869  1.00 34.56      A16S
ATOM  22702  C4* U   A1078     163.821 126.047 -10.956  1.00 34.56      A16S
ATOM  22703  O4* U   A1078     163.632 124.841 -11.727  1.00 34.56      A16S
ATOM  22704  C1* U   A1078     164.291 123.757 -11.093  1.00 34.56      A16S
ATOM  22705  N1   U   A1078     165.185 123.112 -12.064  1.00 48.22      A16S
ATOM  22706  C6   U   A1078     165.781 123.825 -13.079  1.00 48.22      A16S
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ATOM  22707  C2  U  A1078     165.400 121.749 -11.931  1.00 48.22      A16S
ATOM  22708  O2  U  A1078     164.892 121.076 -11.046  1.00 48.22      A16S
ATOM  22709  N3  U  A1078     166.223 121.198 -12.883  1.00 48.22      A16S
ATOM  22710  C4  U  A1078     166.822 121.848 -13.934  1.00 48.22      A16S
ATOM  22711  O4  U  A1078     167.374 121.186 -14.799  1.00 48.22      A16S
ATOM  22712  C5  U  A1078     166.568 123.255 -13.993  1.00 48.22      A16S
ATOM  22713  C2* U  A1078     164.998 124.302  -9.858  1.00 34.56      A16S
ATOM  22714  O2* U  A1078     164.174 124.072  -8.738  1.00 34.56      A16S
ATOM  22715  C3* U  A1078     165.099 125.783 -10.194  1.00 34.56      A16S
ATOM  22716  O3* U  A1078     165.200 126.581  -9.038  1.00 34.56      A16S
ATOM  22717  P   G  A1079     166.561 127.381  -8.781  1.00 38.29      A16S
ATOM  22718  O1P G  A1079     166.483 128.144  -7.506  1.00 27.16      A16S
ATOM  22719  O2P G  A1079     166.843 128.106 -10.060  1.00 27.16      A16S
ATOM  22720  O5* G  A1079     167.599 126.210  -8.529  1.00 38.29      A16S
ATOM  22721  C5* G  A1079     167.376 125.288  -7.475  1.00 38.29      A16S
ATOM  22722  C4* G  A1079     168.304 124.125  -7.619  1.00 38.29      A16S
ATOM  22723  O4* G  A1079     168.033 123.462  -8.873  1.00 38.29      A16S
ATOM  22724  C1* G  A1079     169.239 122.953  -9.412  1.00 38.29      A16S
ATOM  22725  N9  G  A1079     169.405 123.540 -10.732  1.00 27.16      A16S
ATOM  22726  C4  G  A1079     169.864 122.905 -11.856  1.00 27.16      A16S
ATOM  22727  N3  G  A1079     170.319 121.643 -11.918  1.00 27.16      A16S
ATOM  22728  C2  G  A1079     170.640 121.297 -13.149  1.00 27.16      A16S
ATOM  22729  N2  G  A1079     171.097 120.069 -13.388  1.00 27.16      A16S
ATOM  22730  N1  G  A1079     170.531 122.124 -14.237  1.00 27.16      A16S
ATOM  22731  C6  G  A1079     170.061 123.425 -14.203  1.00 27.16      A16S
ATOM  22732  O6  G  A1079     169.982 124.074 -15.249  1.00 27.16      A16S
ATOM  22733  C5  G  A1079     169.717 123.817 -12.879  1.00 27.16      A16S
ATOM  22734  N7  G  A1079     169.228 125.023 -12.393  1.00 27.16      A16S
ATOM  22735  C8  G  A1079     169.073 124.816 -11.114  1.00 27.16      A16S
ATOM  22736  C2* G  A1079     170.354 123.252  -8.419  1.00 38.29      A16S
ATOM  22737  O2* G  A1079     170.444 122.142  -7.545  1.00 38.29      A16S
ATOM  22738  C3* G  A1079     169.785 124.457  -7.688  1.00 38.29      A16S
ATOM  22739  O3* G  A1079     170.319 124.586  -6.384  1.00 38.29      A16S
ATOM  22740  P   A  A1080     171.576 125.545  -6.136  1.00 40.75      A16S
ATOM  22741  O1P A  A1080     171.699 125.664  -4.669  1.00 32.78      A16S
ATOM  22742  O2P A  A1080     171.456 126.758  -6.966  1.00 32.78      A16S
ATOM  22743  O5* A  A1080     172.806 124.663  -6.619  1.00 40.75      A16S
ATOM  22744  C5* A  A1080     173.172 123.484  -5.866  1.00 40.75      A16S
ATOM  22745  C4* A  A1080     174.251 122.708  -6.573  1.00 40.75      A16S
ATOM  22746  O4* A  A1080     173.743 122.186  -7.819  1.00 40.75      A16S
ATOM  22747  C1* A  A1080     174.776 122.145  -8.769  1.00 40.75      A16S
ATOM  22748  N9  A  A1080     174.356 122.937  -9.913  1.00 32.78      A16S
ATOM  22749  C4  A  A1080     174.211 122.457 -11.191  1.00 32.78      A16S
ATOM  22750  N3  A  A1080     174.465 121.209 -11.628  1.00 32.78      A16S
ATOM  22751  C2  A  A1080     174.170 121.101 -12.925  1.00 32.78      A16S
ATOM  22752  N1  A  A1080     173.687 122.025 -13.763  1.00 32.78      A16S
ATOM  22753  C6  A  A1080     173.447 123.264 -13.288  1.00 32.78      A16S
ATOM  22754  N6  A  A1080     172.958 124.175 -14.116  1.00 32.78      A16S
ATOM  22755  C5  A  A1080     173.723 123.514 -11.940  1.00 32.78      A16S
ATOM  22756  N7  A  A1080     173.593 124.651 -11.156  1.00 32.78      A16S
ATOM  22757  C8  A  A1080     173.991 124.256  -9.963  1.00 32.78      A16S
ATOM  22758  C2* A  A1080     176.052 122.626  -8.091  1.00 40.75      A16S
ATOM  22759  O2* A  A1080     176.692 121.470  -7.588  1.00 40.75      A16S
ATOM  22760  C3* A  A1080     175.500 123.476  -6.957  1.00 40.75      A16S
ATOM  22761  O3* A  A1080     176.405 123.526  -5.858  1.00 40.75      A16S
ATOM  22762  P   G  A1081     177.341 124.810  -5.663  1.00 33.47      A16S
ATOM  22763  O1P G  A1081     178.314 124.514  -4.579  1.00 43.70      A16S
ATOM  22764  O2P G  A1081     176.480 126.014  -5.587  1.00 43.70      A16S
ATOM  22765  O5* G  A1081     178.144 124.912  -7.027  1.00 33.47      A16S
ATOM  22766  C5* G  A1081     178.438 126.181  -7.608  1.00 33.47      A16S
ATOM  22767  C4* G  A1081     177.938 126.221  -9.019  1.00 33.47      A16S
ATOM  22768  O4* G  A1081     176.494 126.079  -9.017  1.00 33.47      A16S
ATOM  22769  C1* G  A1081     175.922 126.955  -9.989  1.00 33.47      A16S
ATOM  22770  N9  G  A1081     175.110 127.950  -9.286  1.00 43.70      A16S
ATOM  22771  C4  G  A1081     174.370 128.971  -9.844  1.00 43.70      A16S
ATOM  22772  N3  G  A1081     174.224 129.222 -11.158  1.00 43.70      A16S
ATOM  22773  C2  G  A1081     173.481 130.299 -11.372  1.00 43.70      A16S
ATOM  22774  N2  G  A1081     173.236 130.702 -12.615  1.00 43.70      A16S
ATOM  22775  N1  G  A1081     172.930 131.060 -10.382  1.00 43.70      A16S
ATOM  22776  C6  G  A1081     173.080 130.825  -9.024  1.00 43.70      A16S
ATOM  22777  O6  G  A1081     172.568 131.594  -8.204  1.00 43.70      A16S
ATOM  22778  C5  G  A1081     173.859 129.674  -8.778  1.00 43.70      A16S
ATOM  22779  N7  G  A1081     174.235 129.095  -7.579  1.00 43.70      A16S
ATOM  22780  C8  G  A1081     174.967 128.075  -7.928  1.00 43.70      A16S
ATOM  22781  C2* G  A1081     177.078 127.617 -10.737  1.00 33.47      A16S
ATOM  22782  O2* G  A1081     177.361 126.899 -11.913  1.00 33.47      A16S
ATOM  22783  C3* G  A1081     178.184 127.546  -9.696  1.00 33.47      A16S
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ATOM  22784  O3* G   A1081     179.489 127.652 -10.211  1.00 33.47      A16S
ATOM  22785  P   G   A1082     180.227 129.073 -10.145  1.00 33.61      A16S
ATOM  22786  O1P G   A1082     181.652 128.924 -10.535  1.00 40.65      A16S
ATOM  22787  O2P G   A1082     179.899 129.669  -8.823  1.00 40.65      A16S
ATOM  22788  O5* G   A1082     179.479 129.899 -11.277  1.00 33.61      A16S
ATOM  22789  C5* G   A1082     179.434 129.405 -12.605  1.00 33.61      A16S
ATOM  22790  C4* G   A1082     178.548 130.272 -13.448  1.00 33.61      A16S
ATOM  22791  O4* G   A1082     177.211 130.191 -12.919  1.00 33.61      A16S
ATOM  22792  C1* G   A1082     176.553 131.435 -13.086  1.00 33.61      A16S
ATOM  22793  N9  G   A1082     176.201 131.948 -11.767  1.00 40.65      A16S
ATOM  22794  C4  G   A1082     175.459 133.063 -11.510  1.00 40.65      A16S
ATOM  22795  N3  G   A1082     174.902 133.865 -12.432  1.00 40.65      A16S
ATOM  22796  C2  G   A1082     174.264 134.880 -11.882  1.00 40.65      A16S
ATOM  22797  N2  G   A1082     173.653 135.776 -12.663  1.00 40.65      A16S
ATOM  22798  N1  G   A1082     174.178 135.087 -10.533  1.00 40.65      A16S
ATOM  22799  C6  G   A1082     174.746 134.263  -9.566  1.00 40.65      A16S
ATOM  22800  O6  G   A1082     174.618 134.531  -8.369  1.00 40.65      A16S
ATOM  22801  C5  G   A1082     175.430 133.176 -10.145  1.00 40.65      A16S
ATOM  22802  N7  G   A1082     176.129 132.137  -9.548  1.00 40.65      A16S
ATOM  22803  C8  G   A1082     176.564 131.431 -10.549  1.00 40.65      A16S
ATOM  22804  C2* G   A1082     177.515 132.371 -13.814  1.00 33.61      A16S
ATOM  22805  O2* G   A1082     177.238 132.318 -15.193  1.00 33.61      A16S
ATOM  22806  C3* G   A1082     178.860 131.759 -13.462  1.00 33.61      A16S
ATOM  22807  O3* G   A1082     179.856 132.099 -14.410  1.00 33.61      A16S
ATOM  22808  P   U   A1083     180.989 133.168 -14.022  1.00 58.54      A16S
ATOM  22809  O1P U   A1083     181.957 133.226 -15.163  1.00 56.69      A16S
ATOM  22810  O2P U   A1083     181.488 132.867 -12.642  1.00 56.69      A16S
ATOM  22811  O5* U   A1083     180.198 134.545 -14.027  1.00 58.54      A16S
ATOM  22812  C5* U   A1083     179.497 134.954 -15.199  1.00 58.54      A16S
ATOM  22813  C4* U   A1083     178.580 136.105 -14.892  1.00 58.54      A16S
ATOM  22814  O4* U   A1083     177.607 135.697 -13.903  1.00 58.54      A16S
ATOM  22815  C1* U   A1083     177.237 136.814 -13.124  1.00 58.54      A16S
ATOM  22816  N1  U   A1083     177.378 136.467 -11.706  1.00 56.69      A16S
ATOM  22817  C6  U   A1083     178.217 135.469 -11.293  1.00 56.69      A16S
ATOM  22818  C2  U   A1083     176.640 137.187 -10.807  1.00 56.69      A16S
ATOM  22819  O2  U   A1083     175.870 138.063 -11.146  1.00 56.69      A16S
ATOM  22820  N3  U   A1083     176.831 136.840  -9.495  1.00 56.69      A16S
ATOM  22821  C4  U   A1083     177.663 135.855  -9.016  1.00 56.69      A16S
ATOM  22822  O4  U   A1083     177.691 135.616  -7.812  1.00 56.69      A16S
ATOM  22823  C5  U   A1083     178.380 135.149 -10.015  1.00 56.69      A16S
ATOM  22824  C2* U   A1083     178.069 138.016 -13.577  1.00 58.54      A16S
ATOM  22825  O2* U   A1083     177.264 138.812 -14.419  1.00 58.54      A16S
ATOM  22826  C3* U   A1083     179.230 137.352 -14.319  1.00 58.54      A16S
ATOM  22827  O3* U   A1083     179.709 138.173 -15.388  1.00 58.54      A16S
ATOM  22828  P   G   A1084     181.292 138.419 -15.574  1.00 51.40      A16S
ATOM  22829  O1P G   A1084     181.426 139.108 -16.884  1.00 45.65      A16S
ATOM  22830  O2P G   A1084     182.043 137.156 -15.311  1.00 45.65      A16S
ATOM  22831  O5* G   A1084     181.676 139.428 -14.406  1.00 51.40      A16S
ATOM  22832  C5* G   A1084     181.014 140.690 -14.293  1.00 51.40      A16S
ATOM  22833  C4* G   A1084     181.002 141.151 -12.861  1.00 51.40      A16S
ATOM  22834  O4* G   A1084     180.218 140.242 -12.060  1.00 51.40      A16S
ATOM  22835  C1* G   A1084     180.698 140.246 -10.734  1.00 51.40      A16S
ATOM  22836  N9  G   A1084     180.912 138.862 -10.338  1.00 45.65      A16S
ATOM  22837  C4  G   A1084     180.715 138.301  -9.095  1.00 45.65      A16S
ATOM  22838  N3  G   A1084     180.279 138.936  -7.989  1.00 45.65      A16S
ATOM  22839  C2  G   A1084     180.216 138.114  -6.945  1.00 45.65      A16S
ATOM  22840  N2  G   A1084     179.830 138.562  -5.742  1.00 45.65      A16S
ATOM  22841  N1  G   A1084     180.536 136.786  -6.995  1.00 45.65      A16S
ATOM  22842  C6  G   A1084     180.980 136.118  -8.125  1.00 45.65      A16S
ATOM  22843  O6  G   A1084     181.253 134.915  -8.060  1.00 45.65      A16S
ATOM  22844  C5  G   A1084     181.062 136.977  -9.238  1.00 45.65      A16S
ATOM  22845  N7  G   A1084     181.459 136.710 -10.535  1.00 45.65      A16S
ATOM  22846  C8  G   A1084     181.350 137.854 -11.151  1.00 45.65      A16S
ATOM  22847  C2* G   A1084     181.933 141.154 -10.678  1.00 51.40      A16S
ATOM  22848  O2* G   A1084     181.538 142.407 -10.148  1.00 51.40      A16S
ATOM  22849  C3* G   A1084     182.340 141.245 -12.151  1.00 51.40      A16S
ATOM  22850  O3* G   A1084     182.957 142.492 -12.496  1.00 51.40      A16S
ATOM  22851  P   U   A1085     184.540 142.713 -12.283  1.00 66.21      A16S
ATOM  22852  O1P U   A1085     184.919 143.885 -13.127  1.00 72.62      A16S
ATOM  22853  O2P U   A1085     184.844 142.711 -10.823  1.00 72.62      A16S
ATOM  22854  O5* U   A1085     185.229 141.426 -12.907  1.00 66.21      A16S
ATOM  22855  C5* U   A1085     186.655 141.375 -13.121  1.00 66.21      A16S
ATOM  22856  C4* U   A1085     187.124 139.945 -13.056  1.00 66.21      A16S
ATOM  22857  O4* U   A1085     187.052 139.496 -11.690  1.00 66.21      A16S
ATOM  22858  C1* U   A1085     186.681 138.140 -11.662  1.00 66.21      A16S
ATOM  22859  N1  U   A1085     185.765 137.924 -10.536  1.00 72.62      A16S
ATOM  22860  C6  U   A1085     185.006 138.945 -10.014  1.00 72.62      A16S
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ATOM  22861  C2  U   A1085     185.720 136.657  -9.989  1.00 72.62       A16S
ATOM  22862  O2  U   A1085     186.335 135.710 -10.449  1.00 72.62       A16S
ATOM  22863  N3  U   A1085     184.924 136.531  -8.883  1.00 72.62       A16S
ATOM  22864  C4  U   A1085     184.170 137.509  -8.290  1.00 72.62       A16S
ATOM  22865  O4  U   A1085     183.563 137.247  -7.251  1.00 72.62       A16S
ATOM  22866  C5  U   A1085     184.230 138.786  -8.939  1.00 72.62       A16S
ATOM  22867  C2* U   A1085     186.243 137.685 -13.058  1.00 66.21       A16S
ATOM  22868  O2* U   A1085     187.109 136.690 -13.557  1.00 66.21       A16S
ATOM  22869  C3* U   A1085     186.245 138.991 -13.852  1.00 66.21       A16S
ATOM  22870  O3* U   A1085     186.631 138.914 -15.250  1.00 66.21       A16S
ATOM  22871  P   U   A1086     188.178 138.644 -15.695  1.00 84.04       A16S
ATOM  22872  O1P U   A1086     188.920 137.738 -14.772  1.00 68.88       A16S
ATOM  22873  O2P U   A1086     188.792 139.949 -16.079  1.00 68.88       A16S
ATOM  22874  O5* U   A1086     188.002 137.829 -17.044  1.00 84.04       A16S
ATOM  22875  C5* U   A1086     187.455 136.504 -17.041  1.00 84.04       A16S
ATOM  22876  C4* U   A1086     186.370 136.397 -18.076  1.00 84.04       A16S
ATOM  22877  O4* U   A1086     185.127 136.918 -17.551  1.00 84.04       A16S
ATOM  22878  C1* U   A1086     184.415 137.598 -18.577  1.00 84.04       A16S
ATOM  22879  N1  U   A1086     184.206 138.994 -18.137  1.00 68.88       A16S
ATOM  22880  C6  U   A1086     184.458 139.344 -16.824  1.00 68.88       A16S
ATOM  22881  C2  U   A1086     183.743 139.958 -19.059  1.00 68.88       A16S
ATOM  22882  O2  U   A1086     183.497 139.713 -20.236  1.00 68.88       A16S
ATOM  22883  N3  U   A1086     183.580 141.221 -18.533  1.00 68.88       A16S
ATOM  22884  C4  U   A1086     183.815 141.620 -17.219  1.00 68.88       A16S
ATOM  22885  O4  U   A1086     183.577 142.788 -16.877  1.00 68.88       A16S
ATOM  22886  C5  U   A1086     184.285 140.579 -16.352  1.00 68.88       A16S
ATOM  22887  C2* U   A1086     185.213 137.422 -19.874  1.00 84.04       A16S
ATOM  22888  O2* U   A1086     184.726 136.290 -20.570  1.00 84.04       A16S
ATOM  22889  C3* U   A1086     186.619 137.200 -19.337  1.00 84.04       A16S
ATOM  22890  O3* U   A1086     187.473 136.521 -20.239  1.00 84.04       A16S
ATOM  22891  P   G   A1087     188.669 137.324 -20.943  1.00 63.84       A16S
ATOM  22892  O1P G   A1087     189.397 136.347 -21.790  1.00 57.60       A16S
ATOM  22893  O2P G   A1087     189.408 138.082 -19.901  1.00 57.60       A16S
ATOM  22894  O5* G   A1087     187.913 138.349 -21.896  1.00 63.84       A16S
ATOM  22895  C5* G   A1087     187.081 137.870 -22.964  1.00 63.84       A16S
ATOM  22896  C4* G   A1087     186.501 139.030 -23.729  1.00 63.84       A16S
ATOM  22897  O4* G   A1087     185.562 139.737 -22.886  1.00 63.84       A16S
ATOM  22898  C1* G   A1087     185.684 141.132 -23.098  1.00 63.84       A16S
ATOM  22899  N9  G   A1087     186.124 141.731 -21.843  1.00 57.60       A16S
ATOM  22900  C4  G   A1087     186.226 143.064 -21.579  1.00 57.60       A16S
ATOM  22901  N3  G   A1087     185.951 144.055 -22.441  1.00 57.60       A16S
ATOM  22902  C2  G   A1087     186.151 145.240 -21.901  1.00 57.60       A16S
ATOM  22903  N2  G   A1087     185.957 146.340 -22.640  1.00 57.60       A16S
ATOM  22904  N1  G   A1087     186.562 145.433 -20.603  1.00 57.60       A16S
ATOM  22905  C6  G   A1087     186.834 144.416 -19.694  1.00 57.60       A16S
ATOM  22906  O6  G   A1087     187.171 144.689 -18.538  1.00 57.60       A16S
ATOM  22907  C5  G   A1087     186.655 143.148 -20.271  1.00 57.60       A16S
ATOM  22908  N7  G   A1087     186.834 141.887 -19.727  1.00 57.60       A16S
ATOM  22909  C8  G   A1087     186.509 141.076 -20.693  1.00 57.60       A16S
ATOM  22910  C2* G   A1087     186.684 141.352 -24.236  1.00 63.84       A16S
ATOM  22911  O2* G   A1087     186.002 141.485 -25.468  1.00 63.84       A16S
ATOM  22912  C3* G   A1087     187.517 140.079 -24.154  1.00 63.84       A16S
ATOM  22913  O3* G   A1087     188.130 139.739 -25.389  1.00 63.84       A16S
ATOM  22914  P   G   A1088     189.700 139.989 -25.585  1.00 85.50       A16S
ATOM  22915  O1P G   A1088     190.076 139.279 -26.837  1.00 54.88       A16S
ATOM  22916  O2P G   A1088     190.416 139.676 -24.310  1.00 54.88       A16S
ATOM  22917  O5* G   A1088     189.781 141.549 -25.867  1.00 85.50       A16S
ATOM  22918  C5* G   A1088     189.329 142.066 -27.123  1.00 85.50       A16S
ATOM  22919  C4* G   A1088     189.508 143.553 -27.165  1.00 85.50       A16S
ATOM  22920  O4* G   A1088     188.593 144.162 -26.225  1.00 85.50       A16S
ATOM  22921  C1* G   A1088     189.206 145.291 -25.632  1.00 85.50       A16S
ATOM  22922  N9  G   A1088     189.385 145.015 -24.212  1.00 54.88       A16S
ATOM  22923  C4  G   A1088     189.659 145.945 -23.247  1.00 54.88       A16S
ATOM  22924  N3  G   A1088     189.815 147.265 -23.454  1.00 54.88       A16S
ATOM  22925  C2  G   A1088     190.092 147.909 -22.340  1.00 54.88       A16S
ATOM  22926  N2  G   A1088     190.312 149.228 -22.385  1.00 54.88       A16S
ATOM  22927  N1  G   A1088     190.185 147.307 -21.105  1.00 54.88       A16S
ATOM  22928  C6  G   A1088     190.029 145.944 -20.866  1.00 54.88       A16S
ATOM  22929  O6  G   A1088     190.148 145.498 -19.717  1.00 54.88       A16S
ATOM  22930  C5  G   A1088     189.748 145.237 -22.066  1.00 54.88       A16S
ATOM  22931  N7  G   A1088     189.539 143.879 -22.287  1.00 54.88       A16S
ATOM  22932  C8  G   A1088     189.326 143.794 -23.574  1.00 54.88       A16S
ATOM  22933  C2* G   A1088     190.560 145.486 -26.305  1.00 85.50       A16S
ATOM  22934  O2* G   A1088     190.427 146.378 -27.396  1.00 85.50       A16S
ATOM  22935  C3* G   A1088     190.873 144.064 -26.739  1.00 85.50       A16S
ATOM  22936  O3* G   A1088     191.842 144.002 -27.766  1.00 85.50       A16S
ATOM  22937  P   G   A1089     193.382 143.746 -27.379  1.00 86.19       A16S
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ATOM  22938  O1P G   A1089     194.059 143.652 -28.697  1.00 59.52       A16S
ATOM  22939  O2P G   A1089     193.511 142.627 -26.394  1.00 59.52       A16S
ATOM  22940  O5* G   A1089     193.819 145.085 -26.633  1.00 86.19       A16S
ATOM  22941  C5* G   A1089     193.862 146.331 -27.342  1.00 86.19       A16S
ATOM  22942  C4* G   A1089     194.315 147.443 -26.434  1.00 86.19       A16S
ATOM  22943  O4* G   A1089     193.297 147.714 -25.439  1.00 86.19       A16S
ATOM  22944  C1* G   A1089     193.908 148.196 -24.256  1.00 86.19       A16S
ATOM  22945  N9  G   A1089     193.611 147.291 -23.151  1.00 59.52       A16S
ATOM  22946  C4  G   A1089     193.767 147.587 -21.824  1.00 59.52       A16S
ATOM  22947  N3  G   A1089     194.195 148.759 -21.328  1.00 59.52       A16S
ATOM  22948  C2  G   A1089     194.292 148.729 -20.013  1.00 59.52       A16S
ATOM  22949  N2  G   A1089     194.750 149.803 -19.357  1.00 59.52       A16S
ATOM  22950  N1  G   A1089     193.962 147.640 -19.243  1.00 59.52       A16S
ATOM  22951  C6  G   A1089     193.508 146.426 -19.735  1.00 59.52       A16S
ATOM  22952  O6  G   A1089     193.238 145.516 -18.957  1.00 59.52       A16S
ATOM  22953  C5  G   A1089     193.425 146.435 -21.145  1.00 59.52       A16S
ATOM  22954  N7  G   A1089     193.049 145.436 -22.030  1.00 59.52       A16S
ATOM  22955  C8  G   A1089     193.164 145.991 -23.209  1.00 59.52       A16S
ATOM  22956  C2* G   A1089     195.413 148.225 -24.501  1.00 86.19       A16S
ATOM  22957  O2* G   A1089     195.810 149.507 -24.943  1.00 86.19       A16S
ATOM  22958  C3* G   A1089     195.563 147.197 -25.606  1.00 86.19       A16S
ATOM  22959  O3* G   A1089     196.773 147.404 -26.304  1.00 86.19       A16S
ATOM  22960  P   U   A1090     198.118 146.710 -25.762  1.00 69.78       A16S
ATOM  22961  O1P U   A1090     199.220 147.314 -26.550  1.00 81.77       A16S
ATOM  22962  O2P U   A1090     197.936 145.233 -25.752  1.00 81.77       A16S
ATOM  22963  O5* U   A1090     198.244 147.184 -24.243  1.00 69.78       A16S
ATOM  22964  C5* U   A1090     198.519 148.557 -23.918  1.00 69.78       A16S
ATOM  22965  C4* U   A1090     198.683 148.732 -22.425  1.00 69.78       A16S
ATOM  22966  O4* U   A1090     197.434 148.448 -21.738  1.00 69.78       A16S
ATOM  22967  C1* U   A1090     197.708 147.917 -20.450  1.00 69.78       A16S
ATOM  22968  N1  U   A1090     197.060 146.601 -20.319  1.00 81.77       A16S
ATOM  22969  C6  U   A1090     196.702 145.856 -21.419  1.00 81.77       A16S
ATOM  22970  C2  U   A1090     196.822 146.129 -19.040  1.00 81.77       A16S
ATOM  22971  O2  U   A1090     197.125 146.748 -18.037  1.00 81.77       A16S
ATOM  22972  N3  U   A1090     196.219 144.900 -18.978  1.00 81.77       A16S
ATOM  22973  C4  U   A1090     195.835 144.106 -20.034  1.00 81.77       A16S
ATOM  22974  O4  U   A1090     195.280 143.024 -19.811  1.00 81.77       A16S
ATOM  22975  C5  U   A1090     196.116 144.659 -21.323  1.00 81.77       A16S
ATOM  22976  C2* U   A1090     199.225 147.843 -20.290  1.00 69.78       A16S
ATOM  22977  O2* U   A1090     199.683 148.980 -19.584  1.00 69.78       A16S
ATOM  22978  C3* U   A1090     199.686 147.824 -21.743  1.00 69.78       A16S
ATOM  22979  O3* U   A1090     201.011 148.283 -21.881  1.00 69.78       A16S
ATOM  22980  P   U   A1091     202.215 147.234 -21.752  1.00 64.45       A16S
ATOM  22981  O1P U   A1091     203.454 147.929 -22.186  1.00 74.90       A16S
ATOM  22982  O2P U   A1091     201.798 145.968 -22.418  1.00 74.90       A16S
ATOM  22983  O5* U   A1091     202.325 146.961 -20.189  1.00 64.45       A16S
ATOM  22984  C5* U   A1091     202.490 148.054 -19.285  1.00 64.45       A16S
ATOM  22985  C4* U   A1091     202.297 147.600 -17.868  1.00 64.45       A16S
ATOM  22986  O4* U   A1091     200.933 147.159 -17.660  1.00 64.45       A16S
ATOM  22987  C1* U   A1091     200.911 146.179 -16.635  1.00 64.45       A16S
ATOM  22988  N1  U   A1091     200.166 144.997 -17.099  1.00 74.90       A16S
ATOM  22989  C6  U   A1091     199.845 144.812 -18.420  1.00 74.90       A16S
ATOM  22990  C2  U   A1091     199.791 144.065 -16.142  1.00 74.90       A16S
ATOM  22991  O2  U   A1091     200.048 144.187 -14.966  1.00 74.90       A16S
ATOM  22992  N3  U   A1091     199.104 142.982 -16.617  1.00 74.90       A16S
ATOM  22993  C4  U   A1091     198.751 142.738 -17.916  1.00 74.90       A16S
ATOM  22994  O4  U   A1091     198.123 141.714 -18.183  1.00 74.90       A16S
ATOM  22995  C5  U   A1091     199.167 143.745 -18.851  1.00 74.90       A16S
ATOM  22996  C2* U   A1091     202.358 145.886 -16.227  1.00 64.45       A16S
ATOM  22997  O2* U   A1091     202.659 146.567 -15.024  1.00 64.45       A16S
ATOM  22998  C3* U   A1091     203.135 146.419 -17.427  1.00 64.45       A16S
ATOM  22999  O3* U   A1091     204.453 146.816 -17.086  1.00 64.45       A16S
ATOM  23000  P   A   A1092     205.682 145.818 -17.376  1.00 59.35       A16S
ATOM  23001  O1P A   A1092     205.437 145.171 -18.701  1.00 66.96       A16S
ATOM  23002  O2P A   A1092     206.935 146.574 -17.148  1.00 66.96       A16S
ATOM  23003  O5* A   A1092     205.560 144.718 -16.237  1.00 59.35       A16S
ATOM  23004  C5* A   A1092     206.150 143.435 -16.411  1.00 59.35       A16S
ATOM  23005  C4* A   A1092     205.902 142.595 -15.194  1.00 59.35       A16S
ATOM  23006  O4* A   A1092     206.529 143.228 -14.057  1.00 59.35       A16S
ATOM  23007  C1* A   A1092     205.704 143.096 -12.920  1.00 59.35       A16S
ATOM  23008  N9  A   A1092     205.345 144.448 -12.500  1.00 66.96       A16S
ATOM  23009  C4  A   A1092     205.016 144.859 -11.233  1.00 66.96       A16S
ATOM  23010  N3  A   A1092     204.902 144.098 -10.134  1.00 66.96       A16S
ATOM  23011  C2  A   A1092     204.608 144.848  -9.079  1.00 66.96       A16S
ATOM  23012  N1  A   A1092     204.433 146.170  -9.003  1.00 66.96       A16S
ATOM  23013  C6  A   A1092     204.554 146.903 -10.125  1.00 66.96       A16S
ATOM  23014  N6  A   A1092     204.392 148.222 -10.045  1.00 66.96       A16S
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ATOM  23015  C5  A  A1092     204.851 146.229 -11.313  1.00 66.96      A16S
ATOM  23016  N7  A  A1092     205.027 146.670 -12.616  1.00 66.96      A16S
ATOM  23017  C8  A  A1092     205.309 145.579 -13.281  1.00 66.96      A16S
ATOM  23018  C2* A  A1092     204.517 142.218 -13.312  1.00 59.35      A16S
ATOM  23019  O2* A  A1092     204.818 140.865 -13.035  1.00 59.35      A16S
ATOM  23020  C3* A  A1092     204.444 142.460 -14.808  1.00 59.35      A16S
ATOM  23021  O3* A  A1092     203.839 141.381 -15.496  1.00 59.35      A16S
ATOM  23022  P   A  A1093     202.327 141.525 -16.006  1.00 57.52      A16S
ATOM  23023  O1P A  A1093     201.979 140.326 -16.811  1.00 54.50      A16S
ATOM  23024  O2P A  A1093     202.181 142.870 -16.603  1.00 54.50      A16S
ATOM  23025  O5* A  A1093     201.499 141.467 -14.655  1.00 57.52      A16S
ATOM  23026  C5* A  A1093     201.440 140.253 -13.906  1.00 57.52      A16S
ATOM  23027  C4* A  A1093     200.639 140.470 -12.661  1.00 57.52      A16S
ATOM  23028  O4* A  A1093     201.400 141.333 -11.792  1.00 57.52      A16S
ATOM  23029  C1* A  A1093     200.526 142.206 -11.114  1.00 57.52      A16S
ATOM  23030  N9  A  A1093     200.924 143.578 -11.429  1.00 54.50      A16S
ATOM  23031  C4  A  A1093     201.071 144.620 -10.542  1.00 54.50      A16S
ATOM  23032  N3  A  A1093     200.937 144.584  -9.204  1.00 54.50      A16S
ATOM  23033  C2  A  A1093     201.116 145.792  -8.686  1.00 54.50      A16S
ATOM  23034  N1  A  A1093     201.375 146.946  -9.305  1.00 54.50      A16S
ATOM  23035  C6  A  A1093     201.485 146.949 -10.651  1.00 54.50      A16S
ATOM  23036  N6  A  A1093     201.696 148.105 -11.281  1.00 54.50      A16S
ATOM  23037  C5  A  A1093     201.352 145.730 -11.315  1.00 54.50      A16S
ATOM  23038  N7  A  A1093     201.435 145.389 -12.657  1.00 54.50      A16S
ATOM  23039  C8  A  A1093     201.185 144.104 -12.667  1.00 54.50      A16S
ATOM  23040  C2* A  A1093     199.086 141.861 -11.527  1.00 57.52      A16S
ATOM  23041  O2* A  A1093     198.527 141.011 -10.547  1.00 57.52      A16S
ATOM  23042  C3* A  A1093     199.291 141.152 -12.863  1.00 57.52      A16S
ATOM  23043  O3* A  A1093     198.276 140.162 -13.097  1.00 57.52      A16S
ATOM  23044  P   G  A1094     197.098 140.422 -14.169  1.00 60.69      A16S
ATOM  23045  O1P G  A1094     197.269 141.780 -14.718  1.00 97.96      A16S
ATOM  23046  O2P G  A1094     197.051 139.268 -15.107  1.00 97.96      A16S
ATOM  23047  O5* G  A1094     195.780 140.354 -13.267  1.00 60.69      A16S
ATOM  23048  C5* G  A1094     194.678 141.279 -13.470  1.00 60.69      A16S
ATOM  23049  C4* G  A1094     194.044 141.696 -12.141  1.00 60.69      A16S
ATOM  23050  O4* G  A1094     192.785 141.007 -11.878  1.00 60.69      A16S
ATOM  23051  C1* G  A1094     192.717 140.733 -10.497  1.00 60.69      A16S
ATOM  23052  N9  G  A1094     191.765 139.658 -10.227  1.00 97.96      A16S
ATOM  23053  C4  G  A1094     190.506 139.803  -9.675  1.00 97.96      A16S
ATOM  23054  N3  G  A1094     189.912 140.966  -9.339  1.00 97.96      A16S
ATOM  23055  C2  G  A1094     188.719 140.774  -8.796  1.00 97.96      A16S
ATOM  23056  N2  G  A1094     187.985 141.822  -8.407  1.00 97.96      A16S
ATOM  23057  N1  G  A1094     188.156 139.544  -8.594  1.00 97.96      A16S
ATOM  23058  C6  G  A1094     188.745 138.335  -8.928  1.00 97.96      A16S
ATOM  23059  O6  G  A1094     188.153 137.279  -8.687  1.00 97.96      A16S
ATOM  23060  C5  G  A1094     190.024 138.522  -9.523  1.00 97.96      A16S
ATOM  23061  N7  G  A1094     190.937 137.595 -10.004  1.00 97.96      A16S
ATOM  23062  C8  G  A1094     191.946 138.313 -10.419  1.00 97.96      A16S
ATOM  23063  C2* G  A1094     194.166 140.487 -10.087  1.00 60.69      A16S
ATOM  23064  O2* G  A1094     194.287 140.614  -8.690  1.00 60.69      A16S
ATOM  23065  C3* G  A1094     194.871 141.603 -10.854  1.00 60.69      A16S
ATOM  23066  O3* G  A1094     194.686 142.804 -10.110  1.00 60.69      A16S
ATOM  23067  P   U  A1095     195.788 143.271  -9.032  1.00 60.27      A16S
ATOM  23068  O1P U  A1095     196.816 142.211  -8.913  1.00 54.47      A16S
ATOM  23069  O2P U  A1095     195.068 143.715  -7.807  1.00 54.47      A16S
ATOM  23070  O5* U  A1095     196.441 144.549  -9.738  1.00 60.27      A16S
ATOM  23071  C5* U  A1095     197.336 145.424  -9.024  1.00 60.27      A16S
ATOM  23072  C4* U  A1095     197.660 146.642  -9.852  1.00 60.27      A16S
ATOM  23073  O4* U  A1095     198.409 146.256 -11.026  1.00 60.27      A16S
ATOM  23074  C1* U  A1095     198.107 147.135 -12.096  1.00 60.27      A16S
ATOM  23075  N1  U  A1095     197.647 146.362 -13.259  1.00 54.47      A16S
ATOM  23076  C6  U  A1095     197.304 145.039 -13.164  1.00 54.47      A16S
ATOM  23077  C2  U  A1095     197.557 147.032 -14.473  1.00 54.47      A16S
ATOM  23078  O2  U  A1095     197.862 148.211 -14.612  1.00 54.47      A16S
ATOM  23079  N3  U  A1095     197.095 146.278 -15.518  1.00 54.47      A16S
ATOM  23080  C4  U  A1095     196.726 144.962 -15.482  1.00 54.47      A16S
ATOM  23081  O4  U  A1095     196.318 144.427 -16.511  1.00 54.47      A16S
ATOM  23082  C5  U  A1095     196.856 144.338 -14.202  1.00 54.47      A16S
ATOM  23083  C2* U  A1095     197.041 148.119 -11.620  1.00 60.27      A16S
ATOM  23084  O2* U  A1095     197.648 149.371 -11.371  1.00 60.27      A16S
ATOM  23085  C3* U  A1095     196.470 147.400 -10.402  1.00 60.27      A16S
ATOM  23086  O3* U  A1095     195.948 148.301  -9.444  1.00 60.27      A16S
ATOM  23087  P   C  A1096     194.392 148.694  -9.490  1.00 62.97      A16S
ATOM  23088  O1P C  A1096     194.148 149.550  -8.300  1.00 75.49      A16S
ATOM  23089  O2P C  A1096     193.598 147.446  -9.676  1.00 75.49      A16S
ATOM  23090  O5* C  A1096     194.249 149.597 -10.791  1.00 62.97      A16S
ATOM  23091  C5* C  A1096     194.663 150.955 -10.756  1.00 62.97      A16S
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ATOM  23092  C4* C   A1096     194.835 151.481 -12.147  1.00 62.97      A16S
ATOM  23093  O4* C   A1096     195.694 150.571 -12.881  1.00 62.97      A16S
ATOM  23094  C1* C   A1096     195.338 150.590 -14.259  1.00 62.97      A16S
ATOM  23095  N1  C   A1096     194.909 149.237 -14.673  1.00 75.49      A16S
ATOM  23096  C6  C   A1096     194.603 148.274 -13.752  1.00 75.49      A16S
ATOM  23097  C2  C   A1096     194.793 148.964 -16.045  1.00 75.49      A16S
ATOM  23098  O2  C   A1096     195.110 149.839 -16.861  1.00 75.49      A16S
ATOM  23099  N3  C   A1096     194.343 147.760 -16.443  1.00 75.49      A16S
ATOM  23100  C4  C   A1096     194.022 146.839 -15.536  1.00 75.49      A16S
ATOM  23101  N4  C   A1096     193.555 145.673 -15.976  1.00 75.49      A16S
ATOM  23102  C5  C   A1096     194.159 147.075 -14.135  1.00 75.49      A16S
ATOM  23103  C2* C   A1096     194.190 151.588 -14.418  1.00 62.97      A16S
ATOM  23104  O2* C   A1096     194.685 152.864 -14.798  1.00 62.97      A16S
ATOM  23105  C3* C   A1096     193.594 151.579 -13.019  1.00 62.97      A16S
ATOM  23106  O3* C   A1096     192.825 152.739 -12.789  1.00 62.97      A16S
ATOM  23107  P   C   A1097     191.266 152.740 -13.176  1.00 78.10      A16S
ATOM  23108  O1P C   A1097     190.710 153.962 -12.559  1.00 56.34      A16S
ATOM  23109  O2P C   A1097     190.658 151.418 -12.872  1.00 56.34      A16S
ATOM  23110  O5* C   A1097     191.243 152.927 -14.756  1.00 78.10      A16S
ATOM  23111  C5* C   A1097     191.736 154.128 -15.353  1.00 78.10      A16S
ATOM  23112  C4* C   A1097     191.682 154.019 -16.852  1.00 78.10      A16S
ATOM  23113  O4* C   A1097     192.487 152.891 -17.274  1.00 78.10      A16S
ATOM  23114  C1* C   A1097     191.893 152.281 -18.406  1.00 78.10      A16S
ATOM  23115  N1  C   A1097     191.555 150.888 -18.080  1.00 56.34      A16S
ATOM  23116  C6  C   A1097     191.684 150.401 -16.811  1.00 56.34      A16S
ATOM  23117  C2  C   A1097     191.094 150.060 -19.112  1.00 56.34      A16S
ATOM  23118  O2  C   A1097     190.989 150.534 -20.258  1.00 56.34      A16S
ATOM  23119  N3  C   A1097     190.780 148.774 -18.839  1.00 56.34      A16S
ATOM  23120  C4  C   A1097     190.920 148.307 -17.601  1.00 56.34      A16S
ATOM  23121  N4  C   A1097     190.615 147.033 -17.383  1.00 56.34      A16S
ATOM  23122  C5  C   A1097     191.385 149.128 -16.530  1.00 56.34      A16S
ATOM  23123  C2* C   A1097     190.642 153.073 -18.770  1.00 78.10      A16S
ATOM  23124  O2* C   A1097     190.951 153.979 -19.807  1.00 78.10      A16S
ATOM  23125  C3* C   A1097     190.311 153.735 -17.440  1.00 78.10      A16S
ATOM  23126  O3* C   A1097     189.539 154.910 -17.611  1.00 78.10      A16S
ATOM  23127  P   C   A1098     187.940 154.814 -17.548  1.00 83.72      A16S
ATOM  23128  O1P C   A1098     187.422 156.186 -17.775  1.00 56.52      A16S
ATOM  23129  O2P C   A1098     187.600 154.086 -16.297  1.00 56.52      A16S
ATOM  23130  O5* C   A1098     187.548 153.929 -18.812  1.00 83.72      A16S
ATOM  23131  C5* C   A1098     187.688 154.471 -20.129  1.00 83.72      A16S
ATOM  23132  C4* C   A1098     187.261 153.469 -21.168  1.00 83.72      A16S
ATOM  23133  O4* C   A1098     188.168 152.339 -21.163  1.00 83.72      A16S
ATOM  23134  C1* C   A1098     187.460 151.164 -21.513  1.00 83.72      A16S
ATOM  23135  N1  C   A1098     187.494 150.238 -20.375  1.00 56.52      A16S
ATOM  23136  C6  C   A1098     187.753 150.683 -19.106  1.00 56.52      A16S
ATOM  23137  C2  C   A1098     187.237 148.891 -20.608  1.00 56.52      A16S
ATOM  23138  O2  C   A1098     187.030 148.523 -21.769  1.00 56.52      A16S
ATOM  23139  N3  C   A1098     187.217 148.027 -19.563  1.00 56.52      A16S
ATOM  23140  C4  C   A1098     187.445 148.475 -18.325  1.00 56.52      A16S
ATOM  23141  N4  C   A1098     187.384 147.605 -17.319  1.00 56.52      A16S
ATOM  23142  C5  C   A1098     187.738 149.844 -18.061  1.00 56.52      A16S
ATOM  23143  C2* C   A1098     186.018 151.567 -21.811  1.00 83.72      A16S
ATOM  23144  O2* C   A1098     185.864 151.785 -23.201  1.00 83.72      A16S
ATOM  23145  C3* C   A1098     185.890 152.844 -20.995  1.00 83.72      A16S
ATOM  23146  O3* C   A1098     184.847 153.670 -21.474  1.00 83.72      A16S
ATOM  23147  P   G   A1099     183.408 153.618 -20.759  1.00 68.26      A16S
ATOM  23148  O1P G   A1099     182.605 154.691 -21.409  1.00 47.24      A16S
ATOM  23149  O2P G   A1099     183.604 153.633 -19.277  1.00 47.24      A16S
ATOM  23150  O5* G   A1099     182.814 152.199 -21.178  1.00 68.26      A16S
ATOM  23151  C5* G   A1099     182.671 151.852 -22.561  1.00 68.26      A16S
ATOM  23152  C4* G   A1099     182.550 150.354 -22.733  1.00 68.26      A16S
ATOM  23153  O4* G   A1099     183.720 149.681 -22.195  1.00 68.26      A16S
ATOM  23154  C1* G   A1099     183.370 148.360 -21.816  1.00 68.26      A16S
ATOM  23155  N9  G   A1099     183.671 148.148 -20.405  1.00 47.24      A16S
ATOM  23156  C4  G   A1099     183.630 146.932 -19.768  1.00 47.24      A16S
ATOM  23157  N3  G   A1099     183.330 145.753 -20.348  1.00 47.24      A16S
ATOM  23158  C2  G   A1099     183.350 144.754 -19.479  1.00 47.24      A16S
ATOM  23159  N2  G   A1099     183.079 143.493 -19.886  1.00 47.24      A16S
ATOM  23160  N1  G   A1099     183.636 144.905 -18.146  1.00 47.24      A16S
ATOM  23161  C6  G   A1099     183.945 146.103 -17.522  1.00 47.24      A16S
ATOM  23162  O6  G   A1099     184.175 146.110 -16.302  1.00 47.24      A16S
ATOM  23163  C5  G   A1099     183.937 147.193 -18.452  1.00 47.24      A16S
ATOM  23164  N7  G   A1099     184.185 148.547 -18.266  1.00 47.24      A16S
ATOM  23165  C8  G   A1099     184.018 149.075 -19.452  1.00 47.24      A16S
ATOM  23166  C2* G   A1099     181.874 148.197 -22.042  1.00 68.26      A16S
ATOM  23167  O2* G   A1099     181.661 147.556 -23.279  1.00 68.26      A16S
ATOM  23168  C3* G   A1099     181.405 149.645 -22.032  1.00 68.26      A16S
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ATOM  23169  O3* G   A1099     180.155 149.785 -22.684  1.00 68.26       A16S
ATOM  23170  P    C   A1100     178.817 149.928 -21.797  1.00 71.75       A16S
ATOM  23171  O1P C   A1100     177.729 150.135 -22.793  1.00 55.68       A16S
ATOM  23172  O2P C   A1100     179.050 150.948 -20.730  1.00 55.68       A16S
ATOM  23173  O5* C   A1100     178.633 148.503 -21.096  1.00 71.75       A16S
ATOM  23174  C5* C   A1100     178.216 147.353 -21.862  1.00 71.75       A16S
ATOM  23175  C4* C   A1100     178.231 146.106 -21.009  1.00 71.75       A16S
ATOM  23176  O4* C   A1100     179.550 145.935 -20.453  1.00 71.75       A16S
ATOM  23177  C1* C   A1100     179.457 145.332 -19.181  1.00 71.75       A16S
ATOM  23178  N1   C   A1100     180.122 146.193 -18.205  1.00 55.68       A16S
ATOM  23179  C6   C   A1100     180.252 147.536 -18.423  1.00 55.68       A16S
ATOM  23180  C2   C   A1100     180.616 145.614 -17.032  1.00 55.68       A16S
ATOM  23181  O2   C   A1100     180.499 144.386 -16.872  1.00 55.68       A16S
ATOM  23182  N3   C   A1100     181.204 146.403 -16.104  1.00 55.68       A16S
ATOM  23183  C4   C   A1100     181.304 147.718 -16.317  1.00 55.68       A16S
ATOM  23184  N4   C   A1100     181.861 148.467 -15.364  1.00 55.68       A16S
ATOM  23185  C5   C   A1100     180.829 148.327 -17.516  1.00 55.68       A16S
ATOM  23186  C2* C   A1100     177.983 145.115 -18.851  1.00 71.75       A16S
ATOM  23187  O2* C   A1100     177.665 143.751 -19.033  1.00 71.75       A16S
ATOM  23188  C3* C   A1100     177.295 146.084 -19.811  1.00 71.75       A16S
ATOM  23189  O3* C   A1100     176.013 145.600 -20.201  1.00 71.75       A16S
ATOM  23190  P    A   A1101     174.681 146.286 -19.622  1.00 63.85       A16S
ATOM  23191  O1P A   A1101     173.585 145.893 -20.556  1.00 44.69       A16S
ATOM  23192  O2P A   A1101     174.951 147.732 -19.359  1.00 44.69       A16S
ATOM  23193  O5* A   A1101     174.435 145.569 -18.222  1.00 63.85       A16S
ATOM  23194  C5* A   A1101     174.266 144.152 -18.139  1.00 63.85       A16S
ATOM  23195  C4* A   A1101     174.607 143.681 -16.751  1.00 63.85       A16S
ATOM  23196  O4* A   A1101     173.623 144.176 -15.808  1.00 63.85       A16S
ATOM  23197  C1* A   A1101     173.176 143.106 -15.014  1.00 63.85       A16S
ATOM  23198  N9   A   A1101     171.825 143.374 -14.541  1.00 44.69       A16S
ATOM  23199  C4   A   A1101     171.491 143.384 -13.214  1.00 44.69       A16S
ATOM  23200  N3   A   A1101     172.314 143.158 -12.174  1.00 44.69       A16S
ATOM  23201  C2   A   A1101     171.651 143.250 -11.033  1.00 44.69       A16S
ATOM  23202  N1   A   A1101     170.355 143.527 -10.828  1.00 44.69       A16S
ATOM  23203  C6   A   A1101     169.556 143.746 -11.895  1.00 44.69       A16S
ATOM  23204  N6   A   A1101     168.273 144.017 -11.679  1.00 44.69       A16S
ATOM  23205  C5   A   A1101     170.139 143.671 -13.165  1.00 44.69       A16S
ATOM  23206  N7   A   A1101     169.625 143.830 -14.444  1.00 44.69       A16S
ATOM  23207  C8   A   A1101     170.667 143.648 -15.225  1.00 44.69       A16S
ATOM  23208  C2* A   A1101     173.351 141.852 -15.860  1.00 63.85       A16S
ATOM  23209  O2* A   A1101     173.438 140.711 -15.029  1.00 63.85       A16S
ATOM  23210  C3* A   A1101     174.671 142.169 -16.548  1.00 63.85       A16S
ATOM  23211  O3* A   A1101     175.702 141.889 -15.610  1.00 63.85       A16S
ATOM  23212  P    A   A1102     177.229 142.086 -16.028  1.00 58.68       A16S
ATOM  23213  O1P A   A1102     177.396 141.631 -17.433  1.00 38.87       A16S
ATOM  23214  O2P A   A1102     178.050 141.493 -14.934  1.00 38.87       A16S
ATOM  23215  O5* A   A1102     177.426 143.659 -16.034  1.00 58.68       A16S
ATOM  23216  C5* A   A1102     178.043 144.318 -14.931  1.00 58.68       A16S
ATOM  23217  C4* A   A1102     176.990 144.894 -14.029  1.00 58.68       A16S
ATOM  23218  O4* A   A1102     176.257 143.820 -13.398  1.00 58.68       A16S
ATOM  23219  C1* A   A1102     175.916 144.198 -12.082  1.00 58.68       A16S
ATOM  23220  N9   A   A1102     176.478 143.210 -11.173  1.00 38.87       A16S
ATOM  23221  C4   A   A1102     176.213 143.105  -9.835  1.00 38.87       A16S
ATOM  23222  N3   A   A1102     175.428 143.906  -9.099  1.00 38.87       A16S
ATOM  23223  C2   A   A1102     175.389 143.482  -7.839  1.00 38.87       A16S
ATOM  23224  N1   A   A1102     175.999 142.425  -7.280  1.00 38.87       A16S
ATOM  23225  C6   A   A1102     176.782 141.649  -8.055  1.00 38.87       A16S
ATOM  23226  N6   A   A1102     177.389 140.600  -7.505  1.00 38.87       A16S
ATOM  23227  C5   A   A1102     176.910 141.995  -9.399  1.00 38.87       A16S
ATOM  23228  N7   A   A1102     177.628 141.429 -10.435  1.00 38.87       A16S
ATOM  23229  C8   A   A1102     177.343 142.191 -11.464  1.00 38.87       A16S
ATOM  23230  C2* A   A1102     176.437 145.616 -11.831  1.00 58.68       A16S
ATOM  23231  O2* A   A1102     175.403 146.559 -12.033  1.00 58.68       A16S
ATOM  23232  C3* A   A1102     177.528 145.735 -12.885  1.00 58.68       A16S
ATOM  23233  O3* A   A1102     177.684 147.077 -13.327  1.00 58.68       A16S
ATOM  23234  P    C   A1103     178.959 147.927 -12.863  1.00 55.59       A16S
ATOM  23235  O1P C   A1103     178.974 149.079 -13.807  1.00 41.26       A16S
ATOM  23236  O2P C   A1103     180.167 147.060 -12.721  1.00 41.26       A16S
ATOM  23237  O5* C   A1103     178.599 148.360 -11.377  1.00 55.59       A16S
ATOM  23238  C5* C   A1103     177.462 149.193 -11.081  1.00 55.59       A16S
ATOM  23239  C4* C   A1103     177.288 149.294  -9.587  1.00 55.59       A16S
ATOM  23240  O4* C   A1103     176.732 148.059  -9.065  1.00 55.59       A16S
ATOM  23241  C1* C   A1103     177.284 147.790  -7.789  1.00 55.59       A16S
ATOM  23242  N1   C   A1103     177.906 146.456  -7.789  1.00 41.26       A16S
ATOM  23243  C6   C   A1103     178.321 145.856  -8.946  1.00 41.26       A16S
ATOM  23244  C2   C   A1103     178.070 145.803  -6.560  1.00 41.26       A16S
ATOM  23245  O2   C   A1103     177.709 146.372  -5.536  1.00 41.26       A16S
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ATOM  23246  N3  C   A1103     178.625 144.579  -6.521  1.00 41.26      A16S
ATOM  23247  C4  C   A1103     179.030 144.001  -7.649  1.00 41.26      A16S
ATOM  23248  N4  C   A1103     179.588 142.791  -7.555  1.00 41.26      A16S
ATOM  23249  C5  C   A1103     178.885 144.640  -8.924  1.00 41.26      A16S
ATOM  23250  C2* C   A1103     178.285 148.892  -7.459  1.00 55.59      A16S
ATOM  23251  O2* C   A1103     177.702 149.824  -6.572  1.00 55.59      A16S
ATOM  23252  C3* C   A1103     178.596 149.451  -8.839  1.00 55.59      A16S
ATOM  23253  O3* C   A1103     179.044 150.787  -8.811  1.00 55.59      A16S
ATOM  23254  P   G   A1104     180.546 151.096  -8.346  1.00 59.54      A16S
ATOM  23255  O1P G   A1104     180.696 152.574  -8.480  1.00 61.43      A16S
ATOM  23256  O2P G   A1104     181.486 150.198  -9.064  1.00 61.43      A16S
ATOM  23257  O5* G   A1104     180.538 150.668  -6.811  1.00 59.54      A16S
ATOM  23258  C5* G   A1104     181.700 150.138  -6.172  1.00 59.54      A16S
ATOM  23259  C4* G   A1104     181.312 149.552  -4.845  1.00 59.54      A16S
ATOM  23260  O4* G   A1104     180.379 148.468  -5.079  1.00 59.54      A16S
ATOM  23261  C1* G   A1104     180.634 147.407  -4.166  1.00 59.54      A16S
ATOM  23262  N9  G   A1104     181.041 146.226  -4.927  1.00 61.43      A16S
ATOM  23263  C4  G   A1104     181.242 144.960  -4.431  1.00 61.43      A16S
ATOM  23264  N3  G   A1104     181.063 144.573  -3.154  1.00 61.43      A16S
ATOM  23265  C2  G   A1104     181.364 143.300  -2.978  1.00 61.43      A16S
ATOM  23266  N2  G   A1104     181.232 142.749  -1.774  1.00 61.43      A16S
ATOM  23267  N1  G   A1104     181.816 142.476  -3.972  1.00 61.43      A16S
ATOM  23268  C6  G   A1104     182.014 142.855  -5.295  1.00 61.43      A16S
ATOM  23269  O6  G   A1104     182.442 142.039  -6.114  1.00 61.43      A16S
ATOM  23270  C5  G   A1104     181.680 144.213  -5.501  1.00 61.43      A16S
ATOM  23271  N7  G   A1104     181.729 144.981  -6.654  1.00 61.43      A16S
ATOM  23272  C8  G   A1104     181.337 146.163  -6.270  1.00 61.43      A16S
ATOM  23273  C2* G   A1104     181.749 147.863  -3.223  1.00 59.54      A16S
ATOM  23274  O2* G   A1104     181.197 148.347  -2.017  1.00 59.54      A16S
ATOM  23275  C3* G   A1104     182.450 148.930  -4.060  1.00 59.54      A16S
ATOM  23276  O3* G   A1104     183.123 149.896  -3.262  1.00 59.54      A16S
ATOM  23277  P   A   A1105     184.690 149.702  -2.913  1.00 81.94      A16S
ATOM  23278  O1P A   A1105     185.067 150.900  -2.112  1.00 62.91      A16S
ATOM  23279  O2P A   A1105     185.444 149.394  -4.164  1.00 62.91      A16S
ATOM  23280  O5* A   A1105     184.740 148.424  -1.955  1.00 81.94      A16S
ATOM  23281  C5* A   A1105     184.138 148.477  -0.656  1.00 81.94      A16S
ATOM  23282  C4* A   A1105     184.108 147.115  -0.014  1.00 81.94      A16S
ATOM  23283  O4* A   A1105     183.319 146.201  -0.813  1.00 81.94      A16S
ATOM  23284  C1* A   A1105     183.824 144.879  -0.661  1.00 81.94      A16S
ATOM  23285  N9  A   A1105     184.264 144.380  -1.967  1.00 62.91      A16S
ATOM  23286  C4  A   A1105     184.651 143.091  -2.242  1.00 62.91      A16S
ATOM  23287  N3  A   A1105     184.688 142.053  -1.391  1.00 62.91      A16S
ATOM  23288  C2  A   A1105     185.119 140.957  -2.009  1.00 62.91      A16S
ATOM  23289  N1  A   A1105     185.487 140.797  -3.282  1.00 62.91      A16S
ATOM  23290  C6  A   A1105     185.438 141.867  -4.108  1.00 62.91      A16S
ATOM  23291  N6  A   A1105     185.805 141.716  -5.382  1.00 62.91      A16S
ATOM  23292  C5  A   A1105     185.001 143.081  -3.576  1.00 62.91      A16S
ATOM  23293  N7  A   A1105     184.836 144.337  -4.139  1.00 62.91      A16S
ATOM  23294  C8  A   A1105     184.396 145.070  -3.149  1.00 62.91      A16S
ATOM  23295  C2* A   A1105     184.996 144.949   0.312  1.00 81.94      A16S
ATOM  23296  O2* A   A1105     184.540 144.652   1.616  1.00 81.94      A16S
ATOM  23297  C3* A   A1105     185.430 146.398   0.153  1.00 81.94      A16S
ATOM  23298  O3* A   A1105     186.156 146.843   1.273  1.00 81.94      A16S
ATOM  23299  P   G   A1106     187.755 146.700   1.276  1.00 73.27      A16S
ATOM  23300  O1P G   A1106     188.254 147.595   2.347  1.00 53.74      A16S
ATOM  23301  O2P G   A1106     188.243 146.881  -0.126  1.00 53.74      A16S
ATOM  23302  O5* G   A1106     188.013 145.208   1.762  1.00 73.27      A16S
ATOM  23303  C5* G   A1106     187.624 144.827   3.071  1.00 73.27      A16S
ATOM  23304  C4* G   A1106     187.762 143.352   3.240  1.00 73.27      A16S
ATOM  23305  O4* G   A1106     186.957 142.682   2.243  1.00 73.27      A16S
ATOM  23306  C1* G   A1106     187.598 141.481   1.838  1.00 73.27      A16S
ATOM  23307  N9  G   A1106     187.855 141.543   0.399  1.00 53.74      A16S
ATOM  23308  C4  G   A1106     188.251 140.495  -0.397  1.00 53.74      A16S
ATOM  23309  N3  G   A1106     188.475 139.232   0.015  1.00 53.74      A16S
ATOM  23310  C2  G   A1106     188.831 138.446  -0.980  1.00 53.74      A16S
ATOM  23311  N2  G   A1106     189.075 137.157  -0.740  1.00 53.74      A16S
ATOM  23312  N1  G   A1106     188.970 138.866  -2.279  1.00 53.74      A16S
ATOM  23313  C6  G   A1106     188.753 140.167  -2.724  1.00 53.74      A16S
ATOM  23314  O6  G   A1106     188.919 140.451  -3.921  1.00 53.74      A16S
ATOM  23315  C5  G   A1106     188.357 141.018  -1.666  1.00 53.74      A16S
ATOM  23316  N7  G   A1106     188.038 142.368  -1.670  1.00 53.74      A16S
ATOM  23317  C8  G   A1106     187.750 142.637  -0.426  1.00 53.74      A16S
ATOM  23318  C2* G   A1106     188.882 141.354   2.650  1.00 73.27      A16S
ATOM  23319  O2* G   A1106     188.633 140.554   3.789  1.00 73.27      A16S
ATOM  23320  C3* G   A1106     189.151 142.807   3.005  1.00 73.27      A16S
ATOM  23321  O3* G   A1106     189.974 142.948   4.138  1.00 73.27      A16S
ATOM  23322  P   C   A1107     191.536 143.208   3.924  1.00 69.14      A16S
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ATOM  23323  O1P C   A1107     192.120 143.532   5.250  1.00 40.57      A16S
ATOM  23324  O2P C   A1107     191.646 144.182   2.793  1.00 40.57      A16S
ATOM  23325  O5* C   A1107     192.095 141.774   3.513  1.00 69.14      A16S
ATOM  23326  C5* C   A1107     192.055 140.701   4.474  1.00 69.14      A16S
ATOM  23327  C4* C   A1107     192.572 139.404   3.886  1.00 69.14      A16S
ATOM  23328  O4* C   A1107     191.650 138.867   2.905  1.00 69.14      A16S
ATOM  23329  C1* C   A1107     192.367 138.134   1.933  1.00 69.14      A16S
ATOM  23330  N1   C   A1107     192.237 138.830   0.646  1.00 40.57      A16S
ATOM  23331  C6   C   A1107     191.864 140.142   0.598  1.00 40.57      A16S
ATOM  23332  C2   C   A1107     192.509 138.130  -0.539  1.00 40.57      A16S
ATOM  23333  O2   C   A1107     192.844 136.928  -0.470  1.00 40.57      A16S
ATOM  23334  N3   C   A1107     192.401 138.775  -1.725  1.00 40.57      A16S
ATOM  23335  C4   C   A1107     192.040 140.059  -1.752  1.00 40.57      A16S
ATOM  23336  N4   C   A1107     191.951 140.665  -2.939  1.00 40.57      A16S
ATOM  23337  C5   C   A1107     191.755 140.787  -0.564  1.00 40.57      A16S
ATOM  23338  C2* C   A1107     193.824 138.115   2.376  1.00 69.14      A16S
ATOM  23339  O2* C   A1107     194.023 136.980   3.202  1.00 69.14      A16S
ATOM  23340  C3* C   A1107     193.911 139.407   3.173  1.00 69.14      A16S
ATOM  23341  O3* C   A1107     195.003 139.373   4.069  1.00 69.14      A16S
ATOM  23342  P    G   A1108     196.412 140.005   3.629  1.00 76.58      A16S
ATOM  23343  O1P G   A1108     197.359 139.146   4.373  1.00 34.59      A16S
ATOM  23344  O2P G   A1108     196.424 141.475   3.843  1.00 34.59      A16S
ATOM  23345  O5* G   A1108     196.545 139.729   2.055  1.00 76.58      A16S
ATOM  23346  C5* G   A1108     197.064 138.466   1.588  1.00 76.58      A16S
ATOM  23347  C4* G   A1108     197.368 138.455   0.092  1.00 76.58      A16S
ATOM  23348  O4* G   A1108     196.165 138.508  -0.718  1.00 76.58      A16S
ATOM  23349  C1* G   A1108     196.529 138.817  -2.055  1.00 76.58      A16S
ATOM  23350  N9   G   A1108     195.818 140.002  -2.514  1.00 34.59      A16S
ATOM  23351  C4   G   A1108     195.785 140.480  -3.811  1.00 34.59      A16S
ATOM  23352  N3   G   A1108     196.384 139.916  -4.884  1.00 34.59      A16S
ATOM  23353  C2   G   A1108     196.201 140.638  -5.993  1.00 34.59      A16S
ATOM  23354  N2   G   A1108     196.745 140.232  -7.156  1.00 34.59      A16S
ATOM  23355  N1   G   A1108     195.474 141.810  -6.040  1.00 34.59      A16S
ATOM  23356  C6   G   A1108     194.837 142.394  -4.952  1.00 34.59      A16S
ATOM  23357  O6   G   A1108     194.192 143.432  -5.107  1.00 34.59      A16S
ATOM  23358  C5   G   A1108     195.043 141.641  -3.756  1.00 34.59      A16S
ATOM  23359  N7   G   A1108     194.613 141.882  -2.463  1.00 34.59      A16S
ATOM  23360  C8   G   A1108     195.088 140.880  -1.765  1.00 34.59      A16S
ATOM  23361  C2* G   A1108     198.021 139.123  -2.056  1.00 76.58      A16S
ATOM  23362  O2* G   A1108     198.718 137.953  -2.444  1.00 76.58      A16S
ATOM  23363  C3* G   A1108     198.286 139.460  -0.593  1.00 76.58      A16S
ATOM  23364  O3* G   A1108     199.689 139.291  -0.367  1.00 76.58      A16S
ATOM  23365  P    C   A1109     200.710 140.482  -0.777  1.00 47.28      A16S
ATOM  23366  O1P C   A1109     202.083 139.900  -0.816  1.00 76.11      A16S
ATOM  23367  O2P C   A1109     200.443 141.672   0.090  1.00 76.11      A16S
ATOM  23368  O5* C   A1109     200.278 140.911  -2.254  1.00 47.28      A16S
ATOM  23369  C5* C   A1109     200.862 140.298  -3.403  1.00 47.28      A16S
ATOM  23370  C4* C   A1109     200.751 141.217  -4.592  1.00 47.28      A16S
ATOM  23371  O4* C   A1109     199.355 141.501  -4.852  1.00 47.28      A16S
ATOM  23372  C1* C   A1109     199.219 142.823  -5.353  1.00 47.28      A16S
ATOM  23373  N1   C   A1109     198.418 143.595  -4.389  1.00 76.11      A16S
ATOM  23374  C6   C   A1109     198.149 143.087  -3.147  1.00 76.11      A16S
ATOM  23375  C2   C   A1109     197.944 144.871  -4.753  1.00 76.11      A16S
ATOM  23376  O2   C   A1109     198.193 145.313  -5.882  1.00 76.11      A16S
ATOM  23377  N3   C   A1109     197.231 145.586  -3.858  1.00 76.11      A16S
ATOM  23378  C4   C   A1109     196.985 145.081  -2.643  1.00 76.11      A16S
ATOM  23379  N4   C   A1109     196.285 145.830  -1.781  1.00 76.11      A16S
ATOM  23380  C5   C   A1109     197.446 143.787  -2.254  1.00 76.11      A16S
ATOM  23381  C2* C   A1109     200.622 143.412  -5.474  1.00 47.28      A16S
ATOM  23382  O2* C   A1109     201.139 143.244  -6.775  1.00 47.28      A16S
ATOM  23383  C3* C   A1109     201.374 142.595  -4.441  1.00 47.28      A16S
ATOM  23384  O3* C   A1109     202.770 142.623  -4.662  1.00 47.28      A16S
ATOM  23385  P    A   A1110     203.715 143.400  -3.621  1.00 62.71      A16S
ATOM  23386  O1P A   A1110     205.111 143.069  -3.994  1.00 68.20      A16S
ATOM  23387  O2P A   A1110     203.242 143.138  -2.228  1.00 68.20      A16S
ATOM  23388  O5* A   A1110     203.458 144.926  -3.976  1.00 62.71      A16S
ATOM  23389  C5* A   A1110     203.660 145.406  -5.312  1.00 62.71      A16S
ATOM  23390  C4* A   A1110     203.024 146.762  -5.471  1.00 62.71      A16S
ATOM  23391  O4* A   A1110     201.584 146.609  -5.408  1.00 62.71      A16S
ATOM  23392  C1* A   A1110     201.022 147.654  -4.629  1.00 62.71      A16S
ATOM  23393  N9   A   A1110     200.622 147.092  -3.335  1.00 68.20      A16S
ATOM  23394  C4   A   A1110     199.695 147.625  -2.472  1.00 68.20      A16S
ATOM  23395  N3   A   A1110     198.978 148.752  -2.636  1.00 68.20      A16S
ATOM  23396  C2   A   A1110     198.188 148.957  -1.586  1.00 68.20      A16S
ATOM  23397  N1   A   A1110     198.037 148.213  -0.481  1.00 68.20      A16S
ATOM  23398  C6   A   A1110     198.763 147.082  -0.358  1.00 68.20      A16S
ATOM  23399  N6   A   A1110     198.592 146.326   0.721  1.00 68.20      A16S
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ATOM  23400  C5  A  A1110     199.652 146.763  -1.389  1.00 68.20      A16S
ATOM  23401  N7  A  A1110     200.543 145.713  -1.557  1.00 68.20      A16S
ATOM  23402  C8  A  A1110     201.090 145.951  -2.722  1.00 68.20      A16S
ATOM  23403  C2* A  A1110     202.128 148.679  -4.418  1.00 62.71      A16S
ATOM  23404  O2* A  A1110     202.137 149.573  -5.517  1.00 62.71      A16S
ATOM  23405  C3* A  A1110     203.345 147.770  -4.374  1.00 62.71      A16S
ATOM  23406  O3* A  A1110     204.586 148.443  -4.548  1.00 62.71      A16S
ATOM  23407  P   A  A1111     205.608 148.539  -3.310  1.00 79.22      A16S
ATOM  23408  O1P A  A1111     206.911 148.945  -3.879  1.00 64.84      A16S
ATOM  23409  O2P A  A1111     205.515 147.305  -2.480  1.00 64.84      A16S
ATOM  23410  O5* A  A1111     205.035 149.732  -2.433  1.00 79.22      A16S
ATOM  23411  C5* A  A1111     204.729 150.998  -3.032  1.00 79.22      A16S
ATOM  23412  C4* A  A1111     203.780 151.770  -2.153  1.00 79.22      A16S
ATOM  23413  O4* A  A1111     202.523 151.051  -2.062  1.00 79.22      A16S
ATOM  23414  C1* A  A1111     201.964 151.219  -0.770  1.00 79.22      A16S
ATOM  23415  N9  A  A1111     201.892 149.909  -0.121  1.00 64.84      A16S
ATOM  23416  C4  A  A1111     201.083 149.563   0.937  1.00 64.84      A16S
ATOM  23417  N3  A  A1111     200.184 150.341   1.568  1.00 64.84      A16S
ATOM  23418  C2  A  A1111     199.611 149.679   2.571  1.00 64.84      A16S
ATOM  23419  N1  A  A1111     199.816 148.422   2.982  1.00 64.84      A16S
ATOM  23420  C6  A  A1111     200.723 147.667   2.324  1.00 64.84      A16S
ATOM  23421  N6  A  A1111     200.928 146.413   2.732  1.00 64.84      A16S
ATOM  23422  C5  A  A1111     201.400 148.254   1.242  1.00 64.84      A16S
ATOM  23423  N7  A  A1111     202.375 147.773   0.381  1.00 64.84      A16S
ATOM  23424  C8  A  A1111     202.628 148.789  -0.409  1.00 64.84      A16S
ATOM  23425  C2* A  A1111     202.881 152.169   0.002  1.00 79.22      A16S
ATOM  23426  O2* A  A1111     202.387 153.494  -0.125  1.00 79.22      A16S
ATOM  23427  C3* A  A1111     204.212 151.947  -0.706  1.00 79.22      A16S
ATOM  23428  O3* A  A1111     205.129 153.020  -0.532  1.00 79.22      A16S
ATOM  23429  P   C  A1112     206.332 152.868   0.526  1.00 96.67      A16S
ATOM  23430  O1P C  A1112     207.161 154.081   0.339  1.00 77.69      A16S
ATOM  23431  O2P C  A1112     206.958 151.526   0.391  1.00 77.69      A16S
ATOM  23432  O5* C  A1112     205.620 152.918   1.955  1.00 96.67      A16S
ATOM  23433  C5* C  A1112     204.996 154.131   2.440  1.00 96.67      A16S
ATOM  23434  C4* C  A1112     204.302 153.881   3.761  1.00 96.67      A16S
ATOM  23435  O4* C  A1112     203.222 152.935   3.562  1.00 96.67      A16S
ATOM  23436  C1* C  A1112     203.119 152.079   4.687  1.00 96.67      A16S
ATOM  23437  N1  C  A1112     203.356 150.690   4.242  1.00 77.69      A16S
ATOM  23438  C6  C  A1112     203.834 150.430   2.989  1.00 77.69      A16S
ATOM  23439  C2  C  A1112     203.097 149.630   5.131  1.00 77.69      A16S
ATOM  23440  O2  C  A1112     202.634 149.878   6.246  1.00 77.69      A16S
ATOM  23441  N3  C  A1112     203.356 148.365   4.743  1.00 77.69      A16S
ATOM  23442  C4  C  A1112     203.834 148.128   3.523  1.00 77.69      A16S
ATOM  23443  N4  C  A1112     204.077 146.861   3.181  1.00 77.69      A16S
ATOM  23444  C5  C  A1112     204.087 149.179   2.593  1.00 77.69      A16S
ATOM  23445  C2* C  A1112     204.141 152.552   5.725  1.00 96.67      A16S
ATOM  23446  O2* C  A1112     203.508 153.420   6.643  1.00 96.67      A16S
ATOM  23447  C3* C  A1112     205.166 153.267   4.853  1.00 96.67      A16S
ATOM  23448  O3* C  A1112     205.870 154.267   5.583  1.00 96.67      A16S
ATOM  23449  P   C  A1113     207.471 154.386   5.441  1.00 75.89      A16S
ATOM  23450  O1P C  A1113     207.879 155.622   6.164  1.00 75.98      A16S
ATOM  23451  O2P C  A1113     207.797 154.250   3.995  1.00 75.98      A16S
ATOM  23452  O5* C  A1113     208.040 153.112   6.218  1.00 75.89      A16S
ATOM  23453  C5* C  A1113     207.927 153.016   7.637  1.00 75.89      A16S
ATOM  23454  C4* C  A1113     208.650 151.796   8.142  1.00 75.89      A16S
ATOM  23455  O4* C  A1113     208.025 150.610   7.595  1.00 75.89      A16S
ATOM  23456  C1* C  A1113     209.008 149.617   7.335  1.00 75.89      A16S
ATOM  23457  N1  C  A1113     209.063 149.385   5.874  1.00 75.98      A16S
ATOM  23458  C6  C  A1113     208.549 150.304   4.999  1.00 75.98      A16S
ATOM  23459  C2  C  A1113     209.669 148.216   5.391  1.00 75.98      A16S
ATOM  23460  O2  C  A1113     210.106 147.383   6.201  1.00 75.98      A16S
ATOM  23461  N3  C  A1113     209.760 148.026   4.053  1.00 75.98      A16S
ATOM  23462  C4  C  A1113     209.267 148.942   3.212  1.00 75.98      A16S
ATOM  23463  N4  C  A1113     209.388 148.725   1.902  1.00 75.98      A16S
ATOM  23464  C5  C  A1113     208.629 150.125   3.676  1.00 75.98      A16S
ATOM  23465  C2* C  A1113     210.335 150.155   7.864  1.00 75.89      A16S
ATOM  23466  O2* C  A1113     210.521 149.690   9.192  1.00 75.89      A16S
ATOM  23467  C3* C  A1113     210.110 151.660   7.750  1.00 75.89      A16S
ATOM  23468  O3* C  A1113     210.974 152.428   8.573  1.00 75.89      A16S
ATOM  23469  P   C  A1114     212.235 153.180   7.913  1.00 84.89      A16S
ATOM  23470  O1P C  A1114     212.779 154.081   8.953  1.00 67.24      A16S
ATOM  23471  O2P C  A1114     211.851 153.743   6.586  1.00 67.24      A16S
ATOM  23472  O5* C  A1114     213.283 152.006   7.690  1.00 84.89      A16S
ATOM  23473  C5* C  A1114     213.705 151.196   8.795  1.00 84.89      A16S
ATOM  23474  C4* C  A1114     214.617 150.094   8.320  1.00 84.89      A16S
ATOM  23475  O4* C  A1114     213.866 149.153   7.509  1.00 84.89      A16S
ATOM  23476  C1* C  A1114     214.703 148.623   6.489  1.00 84.89      A16S
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ATOM  23477  N1  C   A1114     214.167 149.009   5.167  1.00 67.24      A16S
ATOM  23478  C6  C   A1114     213.371 150.110   5.018  1.00 67.24      A16S
ATOM  23479  C2  C   A1114     214.508 148.234   4.054  1.00 67.24      A16S
ATOM  23480  O2  C   A1114     215.221 147.233   4.216  1.00 67.24      A16S
ATOM  23481  N3  C   A1114     214.057 148.593   2.833  1.00 67.24      A16S
ATOM  23482  C4  C   A1114     213.293 149.676   2.697  1.00 67.24      A16S
ATOM  23483  N4  C   A1114     212.879 150.001   1.468  1.00 67.24      A16S
ATOM  23484  C5  C   A1114     212.919 150.478   3.812  1.00 67.24      A16S
ATOM  23485  C2* C   A1114     216.094 149.214   6.690  1.00 84.89      A16S
ATOM  23486  O2* C   A1114     216.868 148.321   7.467  1.00 84.89      A16S
ATOM  23487  C3* C   A1114     215.763 150.512   7.413  1.00 84.89      A16S
ATOM  23488  O3* C   A1114     216.877 151.059   8.094  1.00 84.89      A16S
ATOM  23489  P   C   A1115     217.871 152.035   7.295  1.00 98.05      A16S
ATOM  23490  O1P C   A1115     218.848 152.592   8.259  1.00 61.77      A16S
ATOM  23491  O2P C   A1115     217.048 152.952   6.465  1.00 61.77      A16S
ATOM  23492  O5* C   A1115     218.642 151.058   6.305  1.00 98.05      A16S
ATOM  23493  C5* C   A1115     219.556 150.066   6.804  1.00 98.05      A16S
ATOM  23494  C4* C   A1115     220.308 149.444   5.658  1.00 98.05      A16S
ATOM  23495  O4* C   A1115     219.383 148.669   4.851  1.00 98.05      A16S
ATOM  23496  C1* C   A1115     219.693 148.832   3.476  1.00 98.05      A16S
ATOM  23497  N1  C   A1115     218.557 149.504   2.819  1.00 61.77      A16S
ATOM  23498  C6  C   A1115     217.617 150.165   3.554  1.00 61.77      A16S
ATOM  23499  C2  C   A1115     218.455 149.457   1.421  1.00 61.77      A16S
ATOM  23500  O2  C   A1115     219.319 148.850   0.777  1.00 61.77      A16S
ATOM  23501  N3  C   A1115     217.420 150.071   0.814  1.00 61.77      A16S
ATOM  23502  C4  C   A1115     216.506 150.710   1.546  1.00 61.77      A16S
ATOM  23503  N4  C   A1115     215.488 151.298   0.912  1.00 61.77      A16S
ATOM  23504  C5  C   A1115     216.587 150.773   2.965  1.00 61.77      A16S
ATOM  23505  C2* C   A1115     220.965 149.671   3.382  1.00 98.05      A16S
ATOM  23506  O2* C   A1115     222.088 148.819   3.289  1.00 98.05      A16S
ATOM  23507  C3* C   A1115     220.905 150.451   4.687  1.00 98.05      A16S
ATOM  23508  O3* C   A1115     222.170 150.943   5.099  1.00 98.05      A16S
ATOM  23509  P   C   A1116     222.714 152.322   4.480  1.00 71.84      A16S
ATOM  23510  O1P C   A1116     224.066 152.553   5.059  1.00 83.85      A16S
ATOM  23511  O2P C   A1116     221.672 153.380   4.596  1.00 83.85      A16S
ATOM  23512  O5* C   A1116     222.851 152.007   2.925  1.00 71.84      A16S
ATOM  23513  C5* C   A1116     223.883 151.144   2.433  1.00 71.84      A16S
ATOM  23514  C4* C   A1116     223.893 151.169   0.933  1.00 71.84      A16S
ATOM  23515  O4* C   A1116     222.667 150.568   0.443  1.00 71.84      A16S
ATOM  23516  C1* C   A1116     222.277 151.199  -0.769  1.00 71.84      A16S
ATOM  23517  N1  C   A1116     220.944 151.798  -0.609  1.00 83.85      A16S
ATOM  23518  C6  C   A1116     220.384 151.990   0.623  1.00 83.85      A16S
ATOM  23519  C2  C   A1116     220.266 152.210  -1.764  1.00 83.85      A16S
ATOM  23520  O2  C   A1116     220.763 151.957  -2.873  1.00 83.85      A16S
ATOM  23521  N3  C   A1116     219.091 152.861  -1.645  1.00 83.85      A16S
ATOM  23522  C4  C   A1116     218.573 153.079  -0.440  1.00 83.85      A16S
ATOM  23523  N4  C   A1116     217.431 153.755  -0.374  1.00 83.85      A16S
ATOM  23524  C5  C   A1116     219.210 152.621   0.752  1.00 83.85      A16S
ATOM  23525  C2* C   A1116     223.283 152.310  -1.064  1.00 71.84      A16S
ATOM  23526  O2* C   A1116     224.211 151.927  -2.057  1.00 71.84      A16S
ATOM  23527  C3* C   A1116     223.874 152.555   0.315  1.00 71.84      A16S
ATOM  23528  O3* C   A1116     225.117 153.222   0.258  1.00 71.84      A16S
ATOM  23529  P   G   A1117     225.123 154.823   0.133  1.00 59.07      A16S
ATOM  23530  O1P G   A1117     226.543 155.277   0.149  1.00 80.49      A16S
ATOM  23531  O2P G   A1117     224.167 155.369   1.127  1.00 80.49      A16S
ATOM  23532  O5* G   A1117     224.522 155.092  -1.314  1.00 59.07      A16S
ATOM  23533  C5* G   A1117     225.286 154.784  -2.471  1.00 59.07      A16S
ATOM  23534  C4* G   A1117     224.699 155.464  -3.670  1.00 59.07      A16S
ATOM  23535  O4* G   A1117     223.402 154.891  -3.952  1.00 59.07      A16S
ATOM  23536  C1* G   A1117     222.559 155.877  -4.513  1.00 59.07      A16S
ATOM  23537  N9  G   A1117     221.313 155.936  -3.746  1.00 80.49      A16S
ATOM  23538  C4  G   A1117     220.061 156.207  -4.252  1.00 80.49      A16S
ATOM  23539  N3  G   A1117     219.758 156.422  -5.552  1.00 80.49      A16S
ATOM  23540  C2  G   A1117     218.473 156.674  -5.725  1.00 80.49      A16S
ATOM  23541  N2  G   A1117     217.995 156.886  -6.959  1.00 80.49      A16S
ATOM  23542  N1  G   A1117     217.560 156.733  -4.704  1.00 80.49      A16S
ATOM  23543  C6  G   A1117     217.849 156.527  -3.359  1.00 80.49      A16S
ATOM  23544  O6  G   A1117     216.952 156.626  -2.518  1.00 80.49      A16S
ATOM  23545  C5  G   A1117     219.220 156.226  -3.159  1.00 80.49      A16S
ATOM  23546  N7  G   A1117     219.917 155.930  -1.994  1.00 80.49      A16S
ATOM  23547  C8  G   A1117     221.151 155.762  -2.390  1.00 80.49      A16S
ATOM  23548  C2* G   A1117     223.337 157.195  -4.550  1.00 59.07      A16S
ATOM  23549  O2* G   A1117     223.833 157.411  -5.854  1.00 59.07      A16S
ATOM  23550  C3* G   A1117     224.433 156.946  -3.516  1.00 59.07      A16S
ATOM  23551  O3* G   A1117     225.615 157.723  -3.726  1.00 59.07      A16S
ATOM  23552  P   C   A1118     226.005 158.888  -2.675  1.00 66.70      A16S
ATOM  23553  O1P C   A1118     227.473 159.083  -2.772  1.00 87.11      A16S
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ATOM  23554  O2P C   A1118     225.396 158.590  -1.349  1.00 87.11      A16S
ATOM  23555  O5* C   A1118     225.304 160.173  -3.287  1.00 66.70      A16S
ATOM  23556  C5* C   A1118     225.807 160.753  -4.491  1.00 66.70      A16S
ATOM  23557  C4* C   A1118     225.057 162.017  -4.817  1.00 66.70      A16S
ATOM  23558  O4* C   A1118     223.699 161.670  -5.188  1.00 66.70      A16S
ATOM  23559  C1* C   A1118     222.799 162.638  -4.669  1.00 66.70      A16S
ATOM  23560  N1   C   A1118     221.990 161.979  -3.615  1.00 87.11      A16S
ATOM  23561  C6   C   A1118     222.464 160.876  -2.959  1.00 87.11      A16S
ATOM  23562  C2   C   A1118     220.736 162.503  -3.287  1.00 87.11      A16S
ATOM  23563  O2   C   A1118     220.327 163.505  -3.887  1.00 87.11      A16S
ATOM  23564  N3   C   A1118     220.004 161.905  -2.319  1.00 87.11      A16S
ATOM  23565  C4   C   A1118     220.484 160.834  -1.686  1.00 87.11      A16S
ATOM  23566  N4   C   A1118     219.734 160.277  -0.734  1.00 87.11      A16S
ATOM  23567  C5   C   A1118     221.753 160.283  -1.997  1.00 87.11      A16S
ATOM  23568  C2* C   A1118     223.651 163.774  -4.097  1.00 66.70      A16S
ATOM  23569  O2* C   A1118     223.964 164.735  -5.094  1.00 66.70      A16S
ATOM  23570  C3* C   A1118     224.897 163.017  -3.679  1.00 66.70      A16S
ATOM  23571  O3* C   A1118     226.004 163.882  -3.478  1.00 66.70      A16S
ATOM  23572  P    C   A1119     226.312 164.421  -1.996  1.00 98.67      A16S
ATOM  23573  O1P C   A1119     227.592 165.166  -2.071  1.00 95.91      A16S
ATOM  23574  O2P C   A1119     226.175 163.296  -1.034  1.00 95.91      A16S
ATOM  23575  O5* C   A1119     225.121 165.444  -1.711  1.00 98.67      A16S
ATOM  23576  C5* C   A1119     224.892 166.578  -2.578  1.00 98.67      A16S
ATOM  23577  C4* C   A1119     223.674 167.366  -2.128  1.00 98.67      A16S
ATOM  23578  O4* C   A1119     222.474 166.561  -2.287  1.00 98.67      A16S
ATOM  23579  C1* C   A1119     221.537 166.895  -1.274  1.00 98.67      A16S
ATOM  23580  N1   C   A1119     221.268 165.698  -0.449  1.00 95.91      A16S
ATOM  23581  C6   C   A1119     222.017 164.559  -0.580  1.00 95.91      A16S
ATOM  23582  C2   C   A1119     220.231 165.754   0.496  1.00 95.91      A16S
ATOM  23583  O2   C   A1119     219.552 166.794   0.586  1.00 95.91      A16S
ATOM  23584  N3   C   A1119     219.998 164.680   1.286  1.00 95.91      A16S
ATOM  23585  C4   C   A1119     220.748 163.584   1.160  1.00 95.91      A16S
ATOM  23586  N4   C   A1119     220.496 162.559   1.976  1.00 95.91      A16S
ATOM  23587  C5   C   A1119     221.794 163.491   0.197  1.00 95.91      A16S
ATOM  23588  C2* C   A1119     222.140 168.024  -0.435  1.00 98.67      A16S
ATOM  23589  O2* C   A1119     221.651 169.272  -0.890  1.00 98.67      A16S
ATOM  23590  C3* C   A1119     223.634 167.829  -0.676  1.00 98.67      A16S
ATOM  23591  O3* C   A1119     224.369 169.030  -0.455  1.00 98.67      A16S
ATOM  23592  P    G   A1120     225.013 169.321   0.993  1.00134.61     A16S
ATOM  23593  O1P G   A1120     225.968 170.429   0.783  1.00 92.16      A16S
ATOM  23594  O2P G   A1120     225.484 168.051   1.625  1.00 92.16      A16S
ATOM  23595  O5* G   A1120     223.794 169.872   1.859  1.00134.61     A16S
ATOM  23596  C5* G   A1120     223.079 171.063   1.468  1.00134.61     A16S
ATOM  23597  C4* G   A1120     221.911 171.296   2.399  1.00134.61     A16S
ATOM  23598  O4* G   A1120     221.023 170.153   2.320  1.00134.61     A16S
ATOM  23599  C1* G   A1120     220.510 169.853   3.606  1.00134.61     A16S
ATOM  23600  N9   G   A1120     220.925 168.496   3.954  1.00 92.16      A16S
ATOM  23601  C4   G   A1120     220.332 167.669   4.875  1.00 92.16      A16S
ATOM  23602  N3   G   A1120     219.273 167.976   5.649  1.00 92.16      A16S
ATOM  23603  C2   G   A1120     218.916 166.963   6.422  1.00 92.16      A16S
ATOM  23604  N2   G   A1120     217.877 167.094   7.254  1.00 92.16      A16S
ATOM  23605  N1   G   A1120     219.549 165.747   6.434  1.00 92.16      A16S
ATOM  23606  C6   G   A1120     220.642 165.409   5.643  1.00 92.16      A16S
ATOM  23607  O6   G   A1120     221.137 164.278   5.725  1.00 92.16      A16S
ATOM  23608  C5   G   A1120     221.038 166.487   4.813  1.00 92.16      A16S
ATOM  23609  N7   G   A1120     222.069 166.577   3.889  1.00 92.16      A16S
ATOM  23610  C8   G   A1120     221.968 167.785   3.410  1.00 92.16      A16S
ATOM  23611  C2* G   A1120     221.012 170.921   4.579  1.00134.61     A16S
ATOM  23612  O2* G   A1120     220.022 171.921   4.726  1.00134.61     A16S
ATOM  23613  C3* G   A1120     222.270 171.419   3.875  1.00134.61     A16S
ATOM  23614  O3* G   A1120     222.580 172.768   4.220  1.00134.61     A16S
ATOM  23615  P    U   A1121     223.380 173.084   5.579  1.00110.61     A16S
ATOM  23616  O1P U   A1121     223.564 174.557   5.619  1.00106.99     A16S
ATOM  23617  O2P U   A1121     224.566 172.195   5.665  1.00106.99     A16S
ATOM  23618  O5* U   A1121     222.368 172.670   6.739  1.00110.61     A16S
ATOM  23619  C5* U   A1121     221.241 173.508   7.072  1.00110.61     A16S
ATOM  23620  C4* U   A1121     220.500 172.947   8.264  1.00110.61     A16S
ATOM  23621  O4* U   A1121     219.902 171.677   7.905  1.00110.61     A16S
ATOM  23622  C1* U   A1121     219.915 170.809   9.025  1.00110.61     A16S
ATOM  23623  N1   U   A1121     220.631 169.574   8.662  1.00106.99     A16S
ATOM  23624  C6   U   A1121     221.605 169.567   7.687  1.00106.99     A16S
ATOM  23625  C2   U   A1121     220.297 168.410   9.339  1.00106.99     A16S
ATOM  23626  O2   U   A1121     219.442 168.366  10.207  1.00106.99     A16S
ATOM  23627  N3   U   A1121     221.003 167.299   8.960  1.00106.99     A16S
ATOM  23628  C4   U   A1121     221.987 167.226   7.999  1.00106.99     A16S
ATOM  23629  O4   U   A1121     222.561 166.155   7.802  1.00106.99     A16S
ATOM  23630  C5   U   A1121     222.273 168.464   7.342  1.00106.99     A16S
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ATOM  23631  C2* U   A1121     220.548 171.558  10.201  1.00110.61      A16S
ATOM  23632  O2* U   A1121     219.533 172.064  11.045  1.00110.61      A16S
ATOM  23633  C3* U   A1121     221.348 172.644   9.489  1.00110.61      A16S
ATOM  23634  O3* U   A1121     221.536 173.797  10.306  1.00110.61      A16S
ATOM  23635  P    U   A1122     222.795 173.865  11.307  1.00100.27      A16S
ATOM  23636  O1P U   A1122     222.756 175.186  11.992  1.00 98.42      A16S
ATOM  23637  O2P U   A1122     224.012 173.473  10.545  1.00 98.42      A16S
ATOM  23638  O5* U   A1122     222.495 172.719  12.375  1.00100.27      A16S
ATOM  23639  C5* U   A1122     221.425 172.851  13.327  1.00100.27      A16S
ATOM  23640  C4* U   A1122     221.380 171.644  14.232  1.00100.27      A16S
ATOM  23641  O4* U   A1122     220.932 170.483  13.485  1.00100.27      A16S
ATOM  23642  C1* U   A1122     221.598 169.323  13.964  1.00100.27      A16S
ATOM  23643  N1   U   A1122     222.316 168.681  12.849  1.00 98.42      A16S
ATOM  23644  C6   U   A1122     222.612 169.365  11.689  1.00 98.42      A16S
ATOM  23645  C2   U   A1122     222.694 167.352  13.002  1.00 98.42      A16S
ATOM  23646  O2   U   A1122     222.469 166.703  14.013  1.00 98.42      A16S
ATOM  23647  N3   U   A1122     223.357 166.813  11.929  1.00 98.42      A16S
ATOM  23648  C4   U   A1122     223.688 167.444  10.753  1.00 98.42      A16S
ATOM  23649  O4   U   A1122     224.340 166.834   9.903  1.00 98.42      A16S
ATOM  23650  C5   U   A1122     223.267 168.808  10.669  1.00 98.42      A16S
ATOM  23651  C2* U   A1122     222.517 169.743  15.114  1.00100.27      A16S
ATOM  23652  O2* U   A1122     221.882 169.480  16.350  1.00100.27      A16S
ATOM  23653  C3* U   A1122     222.715 171.229  14.829  1.00100.27      A16S
ATOM  23654  O3* U   A1122     223.035 171.973  15.999  1.00100.27      A16S
ATOM  23655  P    A   A1123     224.569 172.323  16.319  1.00152.01      A16S
ATOM  23656  O1P A   A1123     224.574 173.154  17.547  1.00 98.68      A16S
ATOM  23657  O2P A   A1123     225.194 172.845  15.073  1.00 98.68      A16S
ATOM  23658  O5* A   A1123     225.222 170.912  16.674  1.00152.01      A16S
ATOM  23659  C5* A   A1123     224.963 170.286  17.944  1.00152.01      A16S
ATOM  23660  C4* A   A1123     225.662 168.950  18.037  1.00152.01      A16S
ATOM  23661  O4* A   A1123     225.083 168.020  17.084  1.00152.01      A16S
ATOM  23662  C1* A   A1123     226.073 167.099  16.656  1.00152.01      A16S
ATOM  23663  N9   A   A1123     226.259 167.231  15.211  1.00 98.68      A16S
ATOM  23664  C4   A   A1123     226.669 166.230  14.360  1.00 98.68      A16S
ATOM  23665  N3   A   A1123     226.909 164.942  14.670  1.00 98.68      A16S
ATOM  23666  C2   A   A1123     227.336 164.276  13.600  1.00 98.68      A16S
ATOM  23667  N1   A   A1123     227.541 164.718  12.348  1.00 98.68      A16S
ATOM  23668  C6   A   A1123     227.291 166.017  12.070  1.00 98.68      A16S
ATOM  23669  N6   A   A1123     227.508 166.462  10.827  1.00 98.68      A16S
ATOM  23670  C5   A   A1123     226.820 166.830  13.119  1.00 98.68      A16S
ATOM  23671  N7   A   A1123     226.467 168.172  13.176  1.00 98.68      A16S
ATOM  23672  C8   A   A1123     226.131 168.357  14.430  1.00 98.68      A16S
ATOM  23673  C2* A   A1123     227.374 167.448  17.381  1.00152.01      A16S
ATOM  23674  O2* A   A1123     227.522 166.617  18.516  1.00152.01      A16S
ATOM  23675  C3* A   A1123     227.151 168.917  17.726  1.00152.01      A16S
ATOM  23676  O3* A   A1123     227.958 169.348  18.815  1.00152.01      A16S
ATOM  23677  P    G   A1124     229.046 170.514  18.585  1.00154.70      A16S
ATOM  23678  O1P G   A1124     229.194 171.199  19.887  1.00 92.12      A16S
ATOM  23679  O2P G   A1124     228.673 171.299  17.380  1.00 92.12      A16S
ATOM  23680  O5* G   A1124     230.408 169.751  18.258  1.00154.70      A16S
ATOM  23681  C5* G   A1124     231.074 168.941  19.254  1.00154.70      A16S
ATOM  23682  C4* G   A1124     231.441 167.598  18.668  1.00154.70      A16S
ATOM  23683  O4* G   A1124     230.785 167.468  17.389  1.00154.70      A16S
ATOM  23684  C1* G   A1124     231.581 166.686  16.532  1.00154.70      A16S
ATOM  23685  N9   G   A1124     231.569 167.283  15.198  1.00 92.12      A16S
ATOM  23686  C4   G   A1124     231.665 166.591  14.017  1.00 92.12      A16S
ATOM  23687  N3   G   A1124     231.868 165.263  13.900  1.00 92.12      A16S
ATOM  23688  C2   G   A1124     231.881 164.875  12.642  1.00 92.12      A16S
ATOM  23689  N2   G   A1124     232.087 163.582  12.361  1.00 92.12      A16S
ATOM  23690  N1   G   A1124     231.697 165.725  11.571  1.00 92.12      A16S
ATOM  23691  C6   G   A1124     231.485 167.099  11.665  1.00 92.12      A16S
ATOM  23692  O6   G   A1124     231.323 167.774  10.636  1.00 92.12      A16S
ATOM  23693  C5   G   A1124     231.484 167.531  13.022  1.00 92.12      A16S
ATOM  23694  N7   G   A1124     231.324 168.800  13.567  1.00 92.12      A16S
ATOM  23695  C8   G   A1124     231.395 168.607  14.859  1.00 92.12      A16S
ATOM  23696  C2* G   A1124     232.915 166.370  17.219  1.00154.70      A16S
ATOM  23697  O2* G   A1124     232.916 165.008  17.611  1.00154.70      A16S
ATOM  23698  C3* G   A1124     232.921 167.353  18.396  1.00154.70      A16S
ATOM  23699  O3* G   A1124     233.483 166.747  19.564  1.00154.70      A16S
ATOM  23700  P    U   A1125     235.066 166.806  19.838  1.00200.96      A16S
ATOM  23701  O1P U   A1125     235.153 167.009  21.306  1.00 93.63      A16S
ATOM  23702  O2P U   A1125     235.673 167.815  18.926  1.00 93.63      A16S
ATOM  23703  O5* U   A1125     235.590 165.321  19.509  1.00200.96      A16S
ATOM  23704  C5* U   A1125     236.542 165.048  18.428  1.00200.96      A16S
ATOM  23705  C4* U   A1125     237.779 164.314  18.952  1.00200.96      A16S
ATOM  23706  O4* U   A1125     238.046 164.823  20.283  1.00200.96      A16S
ATOM  23707  C1* U   A1125     238.538 163.786  21.107  1.00200.96      A16S
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ATOM  23708  N1  U  A1125     237.566 163.566  22.183  1.00 93.63      A16S
ATOM  23709  C6  U  A1125     236.223 163.838  21.996  1.00 93.63      A16S
ATOM  23710  C2  U  A1125     238.039 163.088  23.389  1.00 93.63      A16S
ATOM  23711  O2  U  A1125     239.213 162.799  23.579  1.00 93.63      A16S
ATOM  23712  N3  U  A1125     237.083 162.952  24.366  1.00 93.63      A16S
ATOM  23713  C4  U  A1125     235.726 163.230  24.253  1.00 93.63      A16S
ATOM  23714  O4  U  A1125     235.004 163.147  25.252  1.00 93.63      A16S
ATOM  23715  C5  U  A1125     235.315 163.689  22.958  1.00 93.63      A16S
ATOM  23716  C2* U  A1125     238.737 162.542  20.249  1.00200.96      A16S
ATOM  23717  O2* U  A1125     240.090 162.486  19.845  1.00200.96      A16S
ATOM  23718  C3* U  A1125     237.754 162.785  19.105  1.00200.96      A16S
ATOM  23719  O3* U  A1125     238.216 162.112  17.914  1.00200.96      A16S
ATOM  23720  P   U  A1126     238.479 160.506  17.918  1.00120.84      A16S
ATOM  23721  O1P U  A1126     237.142 159.857  18.016  1.00111.90      A16S
ATOM  23722  O2P U  A1126     239.539 160.143  18.903  1.00111.90      A16S
ATOM  23723  O5* U  A1126     239.093 160.226  16.467  1.00120.84      A16S
ATOM  23724  C5* U  A1126     239.110 158.900  15.893  1.00120.84      A16S
ATOM  23725  C4* U  A1126     238.405 158.905  14.553  1.00120.84      A16S
ATOM  23726  O4* U  A1126     237.059 159.415  14.750  1.00120.84      A16S
ATOM  23727  C1* U  A1126     236.666 160.195  13.633  1.00120.84      A16S
ATOM  23728  N1  U  A1126     236.366 161.568  14.082  1.00111.90      A16S
ATOM  23729  C6  U  A1126     236.519 161.951  15.396  1.00111.90      A16S
ATOM  23730  C2  U  A1126     235.933 162.483  13.127  1.00111.90      A16S
ATOM  23731  O2  U  A1126     235.751 162.188  11.952  1.00111.90      A16S
ATOM  23732  N3  U  A1126     235.720 163.755  13.596  1.00111.90      A16S
ATOM  23733  C4  U  A1126     235.878 164.200  14.887  1.00111.90      A16S
ATOM  23734  O4  U  A1126     235.733 165.396  15.132  1.00111.90      A16S
ATOM  23735  C5  U  A1126     236.294 163.198  15.817  1.00111.90      A16S
ATOM  23736  C2* U  A1126     237.802 160.143  12.610  1.00120.84      A16S
ATOM  23737  O2* U  A1126     237.522 159.150  11.648  1.00120.84      A16S
ATOM  23738  C3* U  A1126     239.004 159.808  13.483  1.00120.84      A16S
ATOM  23739  O3* U  A1126     240.013 159.154  12.719  1.00120.84      A16S
ATOM  23740  P   G  A1127     241.141 160.027  11.966  1.00 66.13      A16S
ATOM  23741  O1P G  A1127     241.750 159.172  10.913  1.00154.80      A16S
ATOM  23742  O2P G  A1127     242.010 160.638  13.005  1.00154.80      A16S
ATOM  23743  O5* G  A1127     240.342 161.204  11.244  1.00 66.13      A16S
ATOM  23744  C5* G  A1127     239.713 160.981   9.984  1.00 66.13      A16S
ATOM  23745  C4* G  A1127     239.197 162.275   9.405  1.00 66.13      A16S
ATOM  23746  O4* G  A1127     238.172 162.822  10.264  1.00 66.13      A16S
ATOM  23747  C1* G  A1127     238.185 164.239  10.177  1.00 66.13      A16S
ATOM  23748  N9  G  A1127     238.447 164.783  11.505  1.00154.80      A16S
ATOM  23749  C4  G  A1127     238.465 166.110  11.836  1.00154.80      A16S
ATOM  23750  N3  G  A1127     238.257 167.137  10.988  1.00154.80      A16S
ATOM  23751  C2  G  A1127     238.334 168.303  11.599  1.00154.80      A16S
ATOM  23752  N2  G  A1127     238.161 169.435  10.902  1.00154.80      A16S
ATOM  23753  N1  G  A1127     238.590 168.449  12.939  1.00154.80      A16S
ATOM  23754  C6  G  A1127     238.807 167.404  13.833  1.00154.80      A16S
ATOM  23755  O6  G  A1127     239.026 167.646  15.027  1.00154.80      A16S
ATOM  23756  C5  G  A1127     238.734 166.146  13.187  1.00154.80      A16S
ATOM  23757  N7  G  A1127     238.895 164.864  13.693  1.00154.80      A16S
ATOM  23758  C8  G  A1127     238.718 164.088  12.661  1.00154.80      A16S
ATOM  23759  C2* G  A1127     239.263 164.632   9.169  1.00 66.13      A16S
ATOM  23760  O2* G  A1127     238.658 164.821   7.902  1.00 66.13      A16S
ATOM  23761  C3* G  A1127     240.183 163.418   9.231  1.00 66.13      A16S
ATOM  23762  O3* G  A1127     240.971 163.267   8.068  1.00 66.13      A16S
ATOM  23763  P   C  A1128     242.532 162.915   8.217  1.00111.67      A16S
ATOM  23764  O1P C  A1128     242.791 161.691   7.419  1.00 86.26      A16S
ATOM  23765  O2P C  A1128     242.884 162.935   9.668  1.00 86.26      A16S
ATOM  23766  O5* C  A1128     243.248 164.130   7.480  1.00111.67      A16S
ATOM  23767  C5* C  A1128     242.694 164.659   6.265  1.00111.67      A16S
ATOM  23768  C4* C  A1128     242.488 166.149   6.390  1.00111.67      A16S
ATOM  23769  O4* C  A1128     241.801 166.431   7.632  1.00111.67      A16S
ATOM  23770  C1* C  A1128     242.202 167.698   8.114  1.00111.67      A16S
ATOM  23771  N1  C  A1128     242.588 167.582   9.535  1.00 86.26      A16S
ATOM  23772  C6  C  A1128     242.844 166.362  10.100  1.00 86.26      A16S
ATOM  23773  C2  C  A1128     242.661 168.750  10.313  1.00 86.26      A16S
ATOM  23774  O2  C  A1128     242.473 169.857   9.768  1.00 86.26      A16S
ATOM  23775  N3  C  A1128     242.940 168.644  11.639  1.00 86.26      A16S
ATOM  23776  C4  C  A1128     243.155 167.441  12.183  1.00 86.26      A16S
ATOM  23777  N4  C  A1128     243.395 167.378  13.496  1.00 86.26      A16S
ATOM  23778  C5  C  A1128     243.127 166.247  11.405  1.00 86.26      A16S
ATOM  23779  C2* C  A1128     243.257 168.262   7.162  1.00111.67      A16S
ATOM  23780  O2* C  A1128     242.601 169.094   6.240  1.00111.67      A16S
ATOM  23781  C3* C  A1128     243.736 167.017   6.432  1.00111.67      A16S
ATOM  23782  O3* C  A1128     244.089 167.366   5.099  1.00111.67      A16S
ATOM  23783  P   C  A1129     245.439 168.181   4.816  1.00200.96      A16S
ATOM  23784  O1P C  A1129     245.579 168.220   3.342  1.00200.36      A16S
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ATOM  23785  O2P C   A1129     246.519 167.579   5.641  1.00200.36      A16S
ATOM  23786  O5* C   A1129     245.134 169.660   5.340  1.00200.96      A16S
ATOM  23787  C5* C   A1129     245.873 170.230   6.451  1.00200.96      A16S
ATOM  23788  C4* C   A1129     245.993 171.736   6.303  1.00200.96      A16S
ATOM  23789  O4* C   A1129     246.640 172.279   7.487  1.00200.96      A16S
ATOM  23790  C1* C   A1129     247.432 173.401   7.129  1.00200.96      A16S
ATOM  23791  N1   C   A1129     248.805 173.244   7.672  1.00200.36      A16S
ATOM  23792  C6   C   A1129     249.233 172.046   8.182  1.00200.36      A16S
ATOM  23793  C2   C   A1129     249.676 174.358   7.663  1.00200.36      A16S
ATOM  23794  O2   C   A1129     249.278 175.439   7.191  1.00200.36      A16S
ATOM  23795  N3   C   A1129     250.926 174.224   8.168  1.00200.36      A16S
ATOM  23796  C4   C   A1129     251.326 173.050   8.664  1.00200.36      A16S
ATOM  23797  N4   C   A1129     252.567 172.969   9.151  1.00200.36      A16S
ATOM  23798  C5   C   A1129     250.471 171.907   8.683  1.00200.36      A16S
ATOM  23799  C2* C   A1129     247.338 173.595   5.612  1.00200.96      A16S
ATOM  23800  O2* C   A1129     246.446 174.654   5.342  1.00200.96      A16S
ATOM  23801  C3* C   A1129     246.839 172.231   5.134  1.00200.96      A16S
ATOM  23802  O3* C   A1129     246.050 172.353   3.947  1.00200.96      A16S
ATOM  23803  P    A   A1130     246.619 171.820   2.534  1.00141.86      A16S
ATOM  23804  O1P A   A1130     247.682 170.798   2.789  1.00 79.06      A16S
ATOM  23805  O2P A   A1130     246.926 172.984   1.661  1.00 79.06      A16S
ATOM  23806  O5* A   A1130     245.369 171.074   1.877  1.00141.86      A16S
ATOM  23807  C5* A   A1130     244.243 170.655   2.674  1.00141.86      A16S
ATOM  23808  C4* A   A1130     243.083 171.586   2.446  1.00141.86      A16S
ATOM  23809  O4* A   A1130     241.968 171.172   3.270  1.00141.86      A16S
ATOM  23810  C1* A   A1130     241.303 172.314   3.785  1.00141.86      A16S
ATOM  23811  N9   A   A1130     241.398 172.266   5.247  1.00 79.06      A16S
ATOM  23812  C4   A   A1130     240.607 172.918   6.162  1.00 79.06      A16S
ATOM  23813  N3   A   A1130     239.612 173.782   5.912  1.00 79.06      A16S
ATOM  23814  C2   A   A1130     239.056 174.191   7.048  1.00 79.06      A16S
ATOM  23815  N1   A   A1130     239.351 173.850   8.311  1.00 79.06      A16S
ATOM  23816  C6   A   A1130     240.350 172.972   8.523  1.00 79.06      A16S
ATOM  23817  N6   A   A1130     240.623 172.603   9.775  1.00 79.06      A16S
ATOM  23818  C5   A   A1130     241.034 172.484   7.405  1.00 79.06      A16S
ATOM  23819  N7   A   A1130     242.100 171.611   7.280  1.00 79.06      A16S
ATOM  23820  C8   A   A1130     242.283 171.527   5.985  1.00 79.06      A16S
ATOM  23821  C2* A   A1130     241.960 173.549   3.170  1.00141.86      A16S
ATOM  23822  O2* A   A1130     241.257 173.927   2.002  1.00141.86      A16S
ATOM  23823  C3* A   A1130     243.351 173.024   2.854  1.00141.86      A16S
ATOM  23824  O3* A   A1130     243.969 173.750   1.805  1.00141.86      A16S
ATOM  23825  P    G   A1131     244.825 175.067   2.144  1.00200.96      A16S
ATOM  23826  O1P G   A1131     245.032 175.790   0.859  1.00138.31      A16S
ATOM  23827  O2P G   A1131     245.992 174.688   2.964  1.00138.31      A16S
ATOM  23828  O5* G   A1131     243.873 175.930   3.084  1.00200.96      A16S
ATOM  23829  C5* G   A1131     243.834 177.362   2.977  1.00200.96      A16S
ATOM  23830  C4* G   A1131     244.156 178.006   4.306  1.00200.96      A16S
ATOM  23831  O4* G   A1131     243.188 177.575   5.301  1.00200.96      A16S
ATOM  23832  C1* G   A1131     243.799 177.556   6.580  1.00200.96      A16S
ATOM  23833  N9   G   A1131     243.750 176.198   7.112  1.00138.31      A16S
ATOM  23834  C4   G   A1131     243.457 175.839   8.404  1.00138.31      A16S
ATOM  23835  N3   G   A1131     243.083 176.676   9.395  1.00138.31      A16S
ATOM  23836  C2   G   A1131     242.901 176.037  10.539  1.00138.31      A16S
ATOM  23837  N2   G   A1131     242.504 176.717  11.628  1.00138.31      A16S
ATOM  23838  N1   G   A1131     243.088 174.684  10.701  1.00138.31      A16S
ATOM  23839  C6   G   A1131     243.477 173.804   9.696  1.00138.31      A16S
ATOM  23840  O6   G   A1131     243.632 172.600   9.952  1.00138.31      A16S
ATOM  23841  C5   G   A1131     243.655 174.476   8.458  1.00138.31      A16S
ATOM  23842  N7   G   A1131     244.018 173.983   7.213  1.00138.31      A16S
ATOM  23843  C8   G   A1131     244.047 175.036   6.445  1.00138.31      A16S
ATOM  23844  C2* G   A1131     245.251 178.004   6.409  1.00200.96      A16S
ATOM  23845  O2* G   A1131     245.356 179.383   6.701  1.00200.96      A16S
ATOM  23846  C3* G   A1131     245.504 177.686   4.939  1.00200.96      A16S
ATOM  23847  O3* G   A1131     246.575 178.463   4.403  1.00200.96      A16S
ATOM  23848  P    C   A1132     248.101 178.073   4.753  1.00147.04      A16S
ATOM  23849  O1P C   A1132     248.970 178.818   3.804  1.00144.65      A16S
ATOM  23850  O2P C   A1132     248.227 176.598   4.849  1.00144.65      A16S
ATOM  23851  O5* C   A1132     248.316 178.667   6.216  1.00147.04      A16S
ATOM  23852  C5* C   A1132     248.193 180.083   6.464  1.00147.04      A16S
ATOM  23853  C4* C   A1132     248.334 180.377   7.943  1.00147.04      A16S
ATOM  23854  O4* C   A1132     247.197 179.844   8.671  1.00147.04      A16S
ATOM  23855  C1* C   A1132     247.613 179.421   9.959  1.00147.04      A16S
ATOM  23856  N1   C   A1132     247.244 178.002  10.140  1.00144.65      A16S
ATOM  23857  C6   C   A1132     247.640 177.047   9.244  1.00144.65      A16S
ATOM  23858  C2   C   A1132     246.486 177.643  11.262  1.00144.65      A16S
ATOM  23859  O2   C   A1132     246.119 178.529  12.051  1.00144.65      A16S
ATOM  23860  N3   C   A1132     246.168 176.341  11.457  1.00144.65      A16S
ATOM  23861  C4   C   A1132     246.569 175.418  10.582  1.00144.65      A16S
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ATOM  23862  N4  C  A1132     246.242 174.146  10.821  1.00144.65      A16S
ATOM  23863  C5  C  A1132     247.327 175.758   9.425  1.00144.65      A16S
ATOM  23864  C2* C  A1132     249.115 179.690  10.088  1.00147.04      A16S
ATOM  23865  O2* C  A1132     249.329 180.893  10.797  1.00147.04      A16S
ATOM  23866  C3* C  A1132     249.546 179.768   8.627  1.00147.04      A16S
ATOM  23867  O3* C  A1132     250.714 180.557   8.442  1.00147.04      A16S
ATOM  23868  P   G  A1133     252.161 179.875   8.591  1.00155.77      A16S
ATOM  23869  O1P G  A1133     253.168 180.901   8.219  1.00164.97      A16S
ATOM  23870  O2P G  A1133     252.156 178.565   7.885  1.00164.97      A16S
ATOM  23871  O5* G  A1133     252.279 179.598  10.154  1.00155.77      A16S
ATOM  23872  C5* G  A1133     252.411 180.687  11.084  1.00155.77      A16S
ATOM  23873  C4* G  A1133     252.502 180.164  12.495  1.00155.77      A16S
ATOM  23874  O4* G  A1133     251.218 179.627  12.904  1.00155.77      A16S
ATOM  23875  C1* G  A1133     251.419 178.514  13.760  1.00155.77      A16S
ATOM  23876  N9  G  A1133     250.820 177.336  13.138  1.00164.97      A16S
ATOM  23877  C4  G  A1133     250.607 176.120  13.743  1.00164.97      A16S
ATOM  23878  N3  G  A1133     250.881 175.817  15.031  1.00164.97      A16S
ATOM  23879  C2  G  A1133     250.595 174.560  15.314  1.00164.97      A16S
ATOM  23880  N2  G  A1133     250.800 174.095  16.552  1.00164.97      A16S
ATOM  23881  N1  G  A1133     250.085 173.668  14.405  1.00164.97      A16S
ATOM  23882  C6  G  A1133     249.795 173.957  13.075  1.00164.97      A16S
ATOM  23883  O6  G  A1133     249.342 173.075  12.337  1.00164.97      A16S
ATOM  23884  C5  G  A1133     250.090 175.307  12.759  1.00164.97      A16S
ATOM  23885  N7  G  A1133     249.952 176.003  11.565  1.00164.97      A16S
ATOM  23886  C8  G  A1133     250.391 177.201  11.838  1.00164.97      A16S
ATOM  23887  C2* G  A1133     252.929 178.340  13.954  1.00155.77      A16S
ATOM  23888  O2* G  A1133     253.343 178.952  15.160  1.00155.77      A16S
ATOM  23889  C3* G  A1133     253.480 179.022  12.708  1.00155.77      A16S
ATOM  23890  O3* G  A1133     254.822 179.470  12.856  1.00155.77      A16S
ATOM  23891  P   G  A1134     256.031 178.527  12.364  1.00143.89      A16S
ATOM  23892  O1P G  A1134     257.260 179.361  12.321  1.00170.57      A16S
ATOM  23893  O2P G  A1134     255.600 177.798  11.140  1.00170.57      A16S
ATOM  23894  O5* G  A1134     256.190 177.475  13.549  1.00143.89      A16S
ATOM  23895  C5* G  A1134     256.548 177.914  14.873  1.00143.89      A16S
ATOM  23896  C4* G  A1134     256.400 176.787  15.867  1.00143.89      A16S
ATOM  23897  O4* G  A1134     254.998 176.430  16.002  1.00143.89      A16S
ATOM  23898  C1* G  A1134     254.882 175.034  16.234  1.00143.89      A16S
ATOM  23899  N9  G  A1134     254.155 174.434  15.116  1.00170.57      A16S
ATOM  23900  C4  G  A1134     253.868 173.096  14.957  1.00170.57      A16S
ATOM  23901  N3  G  A1134     254.181 172.110  15.822  1.00170.57      A16S
ATOM  23902  C2  G  A1134     253.802 170.926  15.380  1.00170.57      A16S
ATOM  23903  N2  G  A1134     254.037 169.836  16.120  1.00170.57      A16S
ATOM  23904  N1  G  A1134     253.165 170.723  14.182  1.00170.57      A16S
ATOM  23905  C6  G  A1134     252.830 171.724  13.276  1.00170.57      A16S
ATOM  23906  O6  G  A1134     252.257 171.432  12.221  1.00170.57      A16S
ATOM  23907  C5  G  A1134     253.231 173.001  13.739  1.00170.57      A16S
ATOM  23908  N7  G  A1134     253.097 174.253  13.154  1.00170.57      A16S
ATOM  23909  C8  G  A1134     253.654 175.070  14.006  1.00170.57      A16S
ATOM  23910  C2* G  A1134     256.299 174.464  16.326  1.00143.89      A16S
ATOM  23911  O2* G  A1134     256.714 174.393  17.677  1.00143.89      A16S
ATOM  23912  C3* G  A1134     257.091 175.480  15.513  1.00143.89      A16S
ATOM  23913  O3* G  A1134     258.475 175.467  15.837  1.00143.89      A16S
ATOM  23914  P   U  A1135     259.514 174.742  14.844  1.00200.83      A16S
ATOM  23915  O1P U  A1135     259.310 175.330  13.492  1.00150.72      A16S
ATOM  23916  O2P U  A1135     260.860 174.786  15.467  1.00150.72      A16S
ATOM  23917  O5* U  A1135     259.029 173.221  14.801  1.00200.83      A16S
ATOM  23918  C5* U  A1135     258.933 172.436  16.010  1.00200.83      A16S
ATOM  23919  C4* U  A1135     258.393 171.051  15.711  1.00200.83      A16S
ATOM  23920  O4* U  A1135     257.058 171.149  15.148  1.00200.83      A16S
ATOM  23921  C1* U  A1135     256.846 170.087  14.231  1.00200.83      A16S
ATOM  23922  N1  U  A1135     256.476 170.647  12.919  1.00150.72      A16S
ATOM  23923  C6  U  A1135     256.881 171.908  12.536  1.00150.72      A16S
ATOM  23924  C2  U  A1135     255.708 169.860  12.069  1.00150.72      A16S
ATOM  23925  O2  U  A1135     255.315 168.741  12.365  1.00150.72      A16S
ATOM  23926  N3  U  A1135     255.417 170.435  10.856  1.00150.72      A16S
ATOM  23927  C4  U  A1135     255.798 171.686  10.414  1.00150.72      A16S
ATOM  23928  O4  U  A1135     255.469 172.058   9.286  1.00150.72      A16S
ATOM  23929  C5  U  A1135     256.576 172.437  11.348  1.00150.72      A16S
ATOM  23930  C2* U  A1135     258.118 169.235  14.191  1.00200.83      A16S
ATOM  23931  O2* U  A1135     257.954 168.107  15.027  1.00200.83      A16S
ATOM  23932  C3* U  A1135     259.172 170.209  14.711  1.00200.83      A16S
ATOM  23933  O3* U  A1135     260.241 169.517  15.347  1.00200.83      A16S
ATOM  23934  P   U  A1136     261.375 168.800  14.459  1.00181.86      A16S
ATOM  23935  O1P U  A1136     260.900 168.708  13.053  1.00171.06      A16S
ATOM  23936  O2P U  A1136     262.663 169.475  14.751  1.00171.06      A16S
ATOM  23937  O5* U  A1136     261.430 167.322  15.054  1.00181.86      A16S
ATOM  23938  C5* U  A1136     262.536 166.444  14.766  1.00181.86      A16S
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ATOM  23939  C4* U   A1136     262.346 165.114  15.463  1.00181.86      A16S
ATOM  23940  O4* U   A1136     262.279 165.328  16.895  1.00181.86      A16S
ATOM  23941  C1* U   A1136     261.350 164.427  17.471  1.00181.86      A16S
ATOM  23942  N1  U   A1136     260.325 165.212  18.176  1.00171.06      A16S
ATOM  23943  C6  U   A1136     259.819 166.377  17.640  1.00171.06      A16S
ATOM  23944  C2  U   A1136     259.886 164.746  19.403  1.00171.06      A16S
ATOM  23945  O2  U   A1136     260.299 163.716  19.912  1.00171.06      A16S
ATOM  23946  N3  U   A1136     258.941 165.532  20.015  1.00171.06      A16S
ATOM  23947  C4  U   A1136     258.399 166.708  19.536  1.00171.06      A16S
ATOM  23948  O4  U   A1136     257.559 167.306  20.211  1.00171.06      A16S
ATOM  23949  C5  U   A1136     258.899 167.118  18.261  1.00171.06      A16S
ATOM  23950  C2* U   A1136     260.801 163.527  16.360  1.00181.86      A16S
ATOM  23951  O2* U   A1136     261.492 162.292  16.369  1.00181.86      A16S
ATOM  23952  C3* U   A1136     261.068 164.366  15.112  1.00181.86      A16S
ATOM  23953  O3* U   A1136     261.272 163.562  13.954  1.00181.86      A16S
ATOM  23954  P   C   A1137     260.030 163.199  13.001  1.00200.96      A16S
ATOM  23955  O1P C   A1137     260.598 162.684  11.729  1.00200.96      A16S
ATOM  23956  O2P C   A1137     259.087 162.350  13.781  1.00200.96      A16S
ATOM  23957  O5* C   A1137     259.343 164.606  12.694  1.00200.96      A16S
ATOM  23958  C5* C   A1137     257.984 164.864  13.092  1.00200.96      A16S
ATOM  23959  C4* C   A1137     257.186 165.419  11.934  1.00200.96      A16S
ATOM  23960  O4* C   A1137     257.510 166.811  11.707  1.00200.96      A16S
ATOM  23961  C1* C   A1137     257.346 167.111  10.332  1.00200.96      A16S
ATOM  23962  N1  C   A1137     258.578 167.742   9.828  1.00200.96      A16S
ATOM  23963  C6  C   A1137     259.804 167.178  10.058  1.00200.96      A16S
ATOM  23964  C2  C   A1137     258.476 168.938   9.097  1.00200.96      A16S
ATOM  23965  O2  C   A1137     257.354 169.439   8.905  1.00200.96      A16S
ATOM  23966  N3  C   A1137     259.602 169.517   8.619  1.00200.96      A16S
ATOM  23967  C4  C   A1137     260.792 168.953   8.846  1.00200.96      A16S
ATOM  23968  N4  C   A1137     261.876 169.557   8.351  1.00200.96      A16S
ATOM  23969  C5  C   A1137     260.924 167.743   9.591  1.00200.96      A16S
ATOM  23970  C2* C   A1137     256.945 165.827   9.599  1.00200.96      A16S
ATOM  23971  O2* C   A1137     255.552 165.849   9.365  1.00200.96      A16S
ATOM  23972  C3* C   A1137     257.378 164.743  10.586  1.00200.96      A16S
ATOM  23973  O3* C   A1137     256.568 163.578  10.485  1.00200.96      A16S
ATOM  23974  P   G   A1138     257.104 162.298   9.672  1.00191.30      A16S
ATOM  23975  O1P G   A1138     256.988 162.612   8.225  1.00138.09      A16S
ATOM  23976  O2P G   A1138     258.421 161.911  10.234  1.00138.09      A16S
ATOM  23977  O5* G   A1138     256.051 161.151  10.022  1.00191.30      A16S
ATOM  23978  C5* G   A1138     254.646 161.455  10.154  1.00191.30      A16S
ATOM  23979  C4* G   A1138     254.057 160.723  11.339  1.00191.30      A16S
ATOM  23980  O4* G   A1138     254.940 160.859  12.479  1.00191.30      A16S
ATOM  23981  C1* G   A1138     254.175 160.970  13.664  1.00191.30      A16S
ATOM  23982  N9  G   A1138     254.583 162.188  14.364  1.00138.09      A16S
ATOM  23983  C4  G   A1138     254.513 163.486  13.898  1.00138.09      A16S
ATOM  23984  N3  G   A1138     254.023 163.878  12.702  1.00138.09      A16S
ATOM  23985  C2  G   A1138     254.098 165.188  12.545  1.00138.09      A16S
ATOM  23986  N2  G   A1138     253.647 165.752  11.417  1.00138.09      A16S
ATOM  23987  N1  G   A1138     254.618 166.044  13.481  1.00138.09      A16S
ATOM  23988  C6  G   A1138     255.130 165.663  14.715  1.00138.09      A16S
ATOM  23989  O6  G   A1138     255.582 166.517  15.483  1.00138.09      A16S
ATOM  23990  C5  G   A1138     255.048 164.263  14.904  1.00138.09      A16S
ATOM  23991  N7  G   A1138     255.432 163.480  15.983  1.00138.09      A16S
ATOM  23992  C8  G   A1138     255.136 162.261  15.621  1.00138.09      A16S
ATOM  23993  C2* G   A1138     252.691 160.874  13.290  1.00191.30      A16S
ATOM  23994  O2* G   A1138     252.242 159.552  13.514  1.00191.30      A16S
ATOM  23995  C3* G   A1138     252.708 161.250  11.810  1.00191.30      A16S
ATOM  23996  O3* G   A1138     251.637 160.637  11.092  1.00191.30      A16S
ATOM  23997  P   G   A1139     250.675 161.532  10.157  1.00127.22      A16S
ATOM  23998  O1P G   A1139     249.704 160.599   9.531  1.00 85.41      A16S
ATOM  23999  O2P G   A1139     251.520 162.390   9.285  1.00 85.41      A16S
ATOM  24000  O5* G   A1139     249.885 162.470  11.179  1.00127.22      A16S
ATOM  24001  C5* G   A1139     248.606 162.073  11.724  1.00127.22      A16S
ATOM  24002  C4* G   A1139     248.285 162.885  12.957  1.00127.22      A16S
ATOM  24003  O4* G   A1139     248.323 164.298  12.628  1.00127.22      A16S
ATOM  24004  C1* G   A1139     247.121 164.909  13.040  1.00127.22      A16S
ATOM  24005  N9  G   A1139     246.799 165.985  12.109  1.00 85.41      A16S
ATOM  24006  C4  G   A1139     246.536 167.290  12.451  1.00 85.41      A16S
ATOM  24007  N3  G   A1139     246.519 167.790  13.703  1.00 85.41      A16S
ATOM  24008  C2  G   A1139     246.238 169.079  13.716  1.00 85.41      A16S
ATOM  24009  N2  G   A1139     246.186 169.732  14.886  1.00 85.41      A16S
ATOM  24010  N1  G   A1139     245.990 169.822  12.585  1.00 85.41      A16S
ATOM  24011  C6  G   A1139     246.003 169.329  11.285  1.00 85.41      A16S
ATOM  24012  O6  G   A1139     245.769 170.087  10.336  1.00 85.41      A16S
ATOM  24013  C5  G   A1139     246.304 167.942  11.259  1.00 85.41      A16S
ATOM  24014  N7  G   A1139     246.409 167.064  10.190  1.00 85.41      A16S
ATOM  24015  C8  G   A1139     246.702 165.916  10.742  1.00 85.41      A16S
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ATOM	25710	N1	U	A1219	232.121	104.133	33.296	1.00	79.92	A16S
ATOM	25711	C6	U	A1219	231.445	105.335	33.161	1.00	79.92	A16S
ATOM	25712	C2	U	A1219	231.615	102.970	32.729	1.00	79.92	A16S
ATOM	25713	O2	U	A1219	232.179	101.891	32.803	1.00	79.92	A16S
ATOM	25714	N3	U	A1219	230.421	103.121	32.069	1.00	79.92	A16S
ATOM	25715	C4	U	A1219	229.696	104.283	31.911	1.00	79.92	A16S
ATOM	25716	O4	U	A1219	228.615	104.243	31.322	1.00	79.92	A16S
ATOM	25717	C5	U	A1219	230.286	105.444	32.506	1.00	79.92	A16S
ATOM	25718	C2*	U	A1219	234.581	104.428	33.153	1.00	72.18	A16S
ATOM	25719	O2*	U	A1219	235.734	103.693	33.528	1.00	72.18	A16S
ATOM	25720	C3*	U	A1219	234.714	105.913	33.454	1.00	72.18	A16S
ATOM	25721	O3*	U	A1219	236.002	106.385	33.115	1.00	72.18	A16S
ATOM	25722	P	G	A1220	236.256	106.957	31.637	1.00	73.87	A16S
ATOM	25723	O1P	G	A1220	237.685	107.365	31.562	1.00	69.41	A16S
ATOM	25724	O2P	G	A1220	235.189	107.952	31.333	1.00	69.41	A16S
ATOM	25725	O5*	G	A1220	236.042	105.685	30.708	1.00	73.87	A16S
ATOM	25726	C5*	G	A1220	237.000	104.623	30.703	1.00	73.87	A16S
ATOM	25727	C4*	G	A1220	236.555	103.520	29.777	1.00	73.87	A16S
ATOM	25728	O4*	G	A1220	235.358	102.895	30.312	1.00	73.87	A16S
ATOM	25729	C1*	G	A1220	234.529	102.463	29.242	1.00	73.87	A16S
ATOM	25730	N9	G	A1220	233.296	103.245	29.245	1.00	69.41	A16S
ATOM	25731	C4	G	A1220	232.137	102.880	28.614	1.00	69.41	A16S
ATOM	25732	N3	G	A1220	231.937	101.721	27.951	1.00	69.41	A16S
ATOM	25733	C2	G	A1220	230.747	101.667	27.409	1.00	69.41	A16S
ATOM	25734	N2	G	A1220	230.406	100.593	26.703	1.00	69.41	A16S
ATOM	25735	N1	G	A1220	229.811	102.666	27.515	1.00	69.41	A16S
ATOM	25736	C6	G	A1220	229.996	103.870	28.190	1.00	69.41	A16S
ATOM	25737	O6	G	A1220	229.096	104.713	28.211	1.00	69.41	A16S
ATOM	25738	C5	G	A1220	231.279	103.944	28.775	1.00	69.41	A16S
ATOM	25739	N7	G	A1220	231.877	104.954	29.522	1.00	69.41	A16S
ATOM	25740	C8	G	A1220	233.067	104.490	29.793	1.00	69.41	A16S
ATOM	25741	C2*	G	A1220	235.256	102.777	27.937	1.00	73.87	A16S
ATOM	25742	O2*	G	A1220	235.970	101.652	27.468	1.00	73.87	A16S
ATOM	25743	C3*	G	A1220	236.144	103.931	28.370	1.00	73.87	A16S
ATOM	25744	O3*	G	A1220	237.207	104.140	27.472	1.00	73.87	A16S
ATOM	25745	P	G	A1221	236.942	104.995	26.145	1.00	68.41	A16S
ATOM	25746	O1P	G	A1221	238.272	105.167	25.527	1.00	57.91	A16S
ATOM	25747	O2P	G	A1221	236.125	106.198	26.467	1.00	57.91	A16S
ATOM	25748	O5*	G	A1221	236.056	104.021	25.248	1.00	68.41	A16S
ATOM	25749	C5*	G	A1221	236.588	102.770	24.786	1.00	68.41	A16S
ATOM	25750	C4*	G	A1221	235.514	101.951	24.105	1.00	68.41	A16S
ATOM	25751	O4*	G	A1221	234.442	101.693	25.054	1.00	68.41	A16S
ATOM	25752	C1*	G	A1221	233.196	101.656	24.371	1.00	68.41	A16S
ATOM	25753	N9	G	A1221	232.411	102.818	24.781	1.00	57.91	A16S
ATOM	25754	C4	G	A1221	231.107	103.081	24.438	1.00	57.91	A16S
ATOM	25755	N3	G	A1221	230.301	102.278	23.718	1.00	57.91	A16S
ATOM	25756	C2	G	A1221	229.122	102.827	23.504	1.00	57.91	A16S
ATOM	25757	N2	G	A1221	228.208	102.161	22.807	1.00	57.91	A16S
ATOM	25758	N1	G	A1221	228.757	104.068	23.960	1.00	57.91	A16S
ATOM	25759	C6	G	A1221	229.571	104.913	24.707	1.00	57.91	A16S
ATOM	25760	O6	G	A1221	229.153	106.021	25.062	1.00	57.91	A16S
ATOM	25761	C5	G	A1221	230.841	104.331	24.948	1.00	57.91	A16S
ATOM	25762	N7	G	A1221	231.936	104.825	25.635	1.00	57.91	A16S
ATOM	25763	C8	G	A1221	232.838	103.888	25.522	1.00	57.91	A16S
ATOM	25764	C2*	G	A1221	233.501	101.784	22.878	1.00	68.41	A16S
ATOM	25765	O2*	G	A1221	233.650	100.505	22.290	1.00	68.41	A16S
ATOM	25766	C3*	G	A1221	234.803	102.569	22.905	1.00	68.41	A16S
ATOM	25767	O3*	G	A1221	235.500	102.469	21.670	1.00	68.41	A16S
ATOM	25768	P	G	A1222	235.207	103.546	20.506	1.00	78.41	A16S
ATOM	25769	O1P	G	A1222	235.941	103.119	19.295	1.00	72.56	A16S
ATOM	25770	O2P	G	A1222	235.444	104.895	21.049	1.00	72.56	A16S
ATOM	25771	O5*	G	A1222	233.639	103.409	20.229	1.00	78.41	A16S
ATOM	25772	C5*	G	A1222	233.082	102.216	19.620	1.00	78.41	A16S
ATOM	25773	C4*	G	A1222	231.642	102.445	19.217	1.00	78.41	A16S
ATOM	25774	O4*	G	A1222	230.838	102.663	20.407	1.00	78.41	A16S
ATOM	25775	C1*	G	A1222	229.810	103.606	20.132	1.00	78.41	A16S
ATOM	25776	N9	G	A1222	229.995	104.770	20.993	1.00	72.56	A16S
ATOM	25777	C4	G	A1222	229.090	105.784	21.201	1.00	72.56	A16S
ATOM	25778	N3	G	A1222	227.856	105.865	20.669	1.00	72.56	A16S
ATOM	25779	C2	G	A1222	227.233	106.973	21.033	1.00	72.56	A16S
ATOM	25780	N2	G	A1222	225.997	107.224	20.585	1.00	72.56	A16S
ATOM	25781	N1	G	A1222	227.776	107.920	21.861	1.00	72.56	A16S
ATOM	25782	C6	G	A1222	229.044	107.855	22.430	1.00	72.56	A16S
ATOM	25783	O6	G	A1222	229.437	108.768	23.186	1.00	72.56	A16S
ATOM	25784	C5	G	A1222	229.727	106.676	22.035	1.00	72.56	A16S
ATOM	25785	N7	G	A1222	231.000	106.227	22.357	1.00	72.56	A16S
ATOM	25786	C8	G	A1222	231.111	105.092	21.723	1.00	72.56	A16S

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ATOM  25787  C2* G   A1222     229.930 104.008  18.663  1.00 78.41      A16S
ATOM  25788  O2* G   A1222     229.017 103.272  17.882  1.00 78.41      A16S
ATOM  25789  C3* G   A1222     231.388 103.680  18.369  1.00 78.41      A16S
ATOM  25790  O3* G   A1222     231.616 103.486  16.987  1.00 78.41      A16S
ATOM  25791  P    C   A1223     231.992 104.751  16.074  1.00 72.57      A16S
ATOM  25792  O1P C   A1223     232.205 104.243  14.704  1.00 77.72      A16S
ATOM  25793  O2P C   A1223     233.078 105.498  16.756  1.00 77.72      A16S
ATOM  25794  O5* C   A1223     230.679 105.662  16.090  1.00 72.57      A16S
ATOM  25795  C5* C   A1223     229.438 105.169  15.554  1.00 72.57      A16S
ATOM  25796  C4* C   A1223     228.353 106.224  15.626  1.00 72.57      A16S
ATOM  25797  O4* C   A1223     228.014 106.524  17.004  1.00 72.57      A16S
ATOM  25798  C1* C   A1223     227.536 107.861  17.091  1.00 72.57      A16S
ATOM  25799  N1   C   A1223     228.317 108.598  18.099  1.00 77.72      A16S
ATOM  25800  C6   C   A1223     229.648 108.348  18.272  1.00 77.72      A16S
ATOM  25801  C2   C   A1223     227.678 109.585  18.870  1.00 77.72      A16S
ATOM  25802  O2   C   A1223     226.461 109.782  18.724  1.00 77.72      A16S
ATOM  25803  N3   C   A1223     228.406 110.298  19.757  1.00 77.72      A16S
ATOM  25804  C4   C   A1223     229.710 110.056  19.899  1.00 77.72      A16S
ATOM  25805  N4   C   A1223     230.392 110.797  20.767  1.00 77.72      A16S
ATOM  25806  C5   C   A1223     230.375 109.046  19.152  1.00 77.72      A16S
ATOM  25807  C2* C   A1223     227.648 108.503  15.705  1.00 72.57      A16S
ATOM  25808  O2* C   A1223     226.382 108.562  15.083  1.00 72.57      A16S
ATOM  25809  C3* C   A1223     228.638 107.579  14.995  1.00 72.57      A16S
ATOM  25810  O3* C   A1223     228.398 107.572  13.591  1.00 72.57      A16S
ATOM  25811  P    G   A1224     228.951 108.773  12.682  1.00 49.46      A16S
ATOM  25812  O1P G   A1224     228.489 110.056  13.253  1.00 82.02      A16S
ATOM  25813  O2P G   A1224     228.625 108.448  11.282  1.00 82.02      A16S
ATOM  25814  O5* G   A1224     230.532 108.690  12.877  1.00 49.46      A16S
ATOM  25815  C5* G   A1224     231.238 107.411  12.995  1.00 49.46      A16S
ATOM  25816  C4* G   A1224     232.709 107.588  12.630  1.00 49.46      A16S
ATOM  25817  O4* G   A1224     233.262 108.704  13.384  1.00 49.46      A16S
ATOM  25818  C1* G   A1224     234.442 108.289  14.037  1.00 49.46      A16S
ATOM  25819  N9   G   A1224     234.649 109.090  15.241  1.00 82.02      A16S
ATOM  25820  C4   G   A1224     235.507 110.158  15.345  1.00 82.02      A16S
ATOM  25821  N3   G   A1224     236.286 110.642  14.357  1.00 82.02      A16S
ATOM  25822  C2   G   A1224     237.011 111.671  14.757  1.00 82.02      A16S
ATOM  25823  N2   G   A1224     237.851 112.270  13.900  1.00 82.02      A16S
ATOM  25824  N1   G   A1224     236.969 112.190  16.024  1.00 82.02      A16S
ATOM  25825  C6   G   A1224     236.172 111.714  17.057  1.00 82.02      A16S
ATOM  25826  O6   G   A1224     236.208 112.266  18.160  1.00 82.02      A16S
ATOM  25827  C5   G   A1224     235.391 110.598  16.643  1.00 82.02      A16S
ATOM  25828  N7   G   A1224     234.477 109.825  17.345  1.00 82.02      A16S
ATOM  25829  C8   G   A1224     234.060 108.946  16.474  1.00 82.02      A16S
ATOM  25830  C2* G   A1224     234.315 106.779  14.204  1.00 49.46      A16S
ATOM  25831  O2* G   A1224     235.601 106.235  14.417  1.00 49.46      A16S
ATOM  25832  C3* G   A1224     233.647 106.398  12.876  1.00 49.46      A16S
ATOM  25833  O3* G   A1224     234.687 106.390  11.874  1.00 49.46      A16S
ATOM  25834  P    A   A1225     234.528 105.538  10.512  1.00 60.86      A16S
ATOM  25835  O1P A   A1225     235.827 105.679   9.802  1.00 62.31      A16S
ATOM  25836  O2P A   A1225     233.278 105.955   9.838  1.00 62.31      A16S
ATOM  25837  O5* A   A1225     234.416 104.020  10.971  1.00 60.86      A16S
ATOM  25838  C5* A   A1225     235.496 103.386  11.671  1.00 60.86      A16S
ATOM  25839  C4* A   A1225     235.109 101.983  12.022  1.00 60.86      A16S
ATOM  25840  O4* A   A1225     233.745 102.044  12.476  1.00 60.86      A16S
ATOM  25841  C1* A   A1225     233.064 100.875  12.095  1.00 60.86      A16S
ATOM  25842  N9   A   A1225     231.698 101.228  11.695  1.00 62.31      A16S
ATOM  25843  C4   A   A1225     230.922 100.712  10.687  1.00 62.31      A16S
ATOM  25844  N3   A   A1225     231.274  99.797   9.772  1.00 62.31      A16S
ATOM  25845  C2   A   A1225     230.248  99.517   8.975  1.00 62.31      A16S
ATOM  25846  N1   A   A1225     229.005 100.005   8.990  1.00 62.31      A16S
ATOM  25847  C6   A   A1225     228.682 100.922   9.923  1.00 62.31      A16S
ATOM  25848  N6   A   A1225     227.434 101.394   9.950  1.00 62.31      A16S
ATOM  25849  C5   A   A1225     229.685 101.317  10.818  1.00 62.31      A16S
ATOM  25850  N7   A   A1225     229.694 102.233  11.855  1.00 62.31      A16S
ATOM  25851  C8   A   A1225     230.905 102.148  12.336  1.00 62.31      A16S
ATOM  25852  C2* A   A1225     233.971 100.033  11.192  1.00 60.86      A16S
ATOM  25853  O2* A   A1225     234.390  98.911  11.946  1.00 60.86      A16S
ATOM  25854  C3* A   A1225     235.116 101.000  10.860  1.00 60.86      A16S
ATOM  25855  O3* A   A1225     236.358 100.288  10.953  1.00 60.86      A16S
ATOM  25856  P    C   A1226     237.475 100.430   9.809  1.00 65.16      A16S
ATOM  25857  O1P C   A1226     238.590  99.543  10.192  1.00 52.24      A16S
ATOM  25858  O2P C   A1226     237.738 101.853   9.505  1.00 52.24      A16S
ATOM  25859  O5* C   A1226     236.807  99.754   8.549  1.00 65.16      A16S
ATOM  25860  C5* C   A1226     237.379  99.909   7.259  1.00 65.16      A16S
ATOM  25861  C4* C   A1226     236.556  99.161   6.268  1.00 65.16      A16S
ATOM  25862  O4* C   A1226     235.209  99.130   6.767  1.00 65.16      A16S
ATOM  25863  C1* C   A1226     234.311  99.377   5.717  1.00 65.16      A16S
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ATOM  25864  N1  C  A1226     233.470 100.523   6.102  1.00 52.24      A16S
ATOM  25865  C6  C  A1226     234.005 101.634   6.693  1.00 52.24      A16S
ATOM  25866  C2  C  A1226     232.085 100.436   5.890  1.00 52.24      A16S
ATOM  25867  O2  C  A1226     231.634  99.439   5.296  1.00 52.24      A16S
ATOM  25868  N3  C  A1226     231.279 101.436   6.331  1.00 52.24      A16S
ATOM  25869  C4  C  A1226     231.807 102.494   6.940  1.00 52.24      A16S
ATOM  25870  N4  C  A1226     230.977 103.437   7.380  1.00 52.24      A16S
ATOM  25871  C5  C  A1226     233.217 102.631   7.128  1.00 52.24      A16S
ATOM  25872  C2* C  A1226     235.096  99.478   4.405  1.00 65.16      A16S
ATOM  25873  O2* C  A1226     235.012  98.245   3.720  1.00 65.16      A16S
ATOM  25874  C3* C  A1226     236.498  99.802   4.895  1.00 65.16      A16S
ATOM  25875  O3* C  A1226     237.575  99.362   4.044  1.00 65.16      A16S
ATOM  25876  P   A  A1227     237.900  97.783   3.851  1.00 59.15      A16S
ATOM  25877  O1P A  A1227     237.511  97.017   5.062  1.00 71.75      A16S
ATOM  25878  O2P A  A1227     239.302  97.719   3.386  1.00 71.75      A16S
ATOM  25879  O5* A  A1227     236.990  97.294   2.628  1.00 59.15      A16S
ATOM  25880  C5* A  A1227     237.255  96.014   1.990  1.00 59.15      A16S
ATOM  25881  C4* A  A1227     236.479  95.852   0.686  1.00 59.15      A16S
ATOM  25882  O4* A  A1227     235.232  95.130   0.890  1.00 59.15      A16S
ATOM  25883  C1* A  A1227     234.301  95.497  -0.117  1.00 59.15      A16S
ATOM  25884  N9  A  A1227     233.121  96.098   0.511  1.00 71.75      A16S
ATOM  25885  C4  A  A1227     231.938  95.465   0.748  1.00 71.75      A16S
ATOM  25886  N3  A  A1227     231.654  94.180   0.507  1.00 71.75      A16S
ATOM  25887  C2  A  A1227     230.390  93.917   0.827  1.00 71.75      A16S
ATOM  25888  N1  A  A1227     229.449  94.741   1.323  1.00 71.75      A16S
ATOM  25889  C6  A  A1227     229.775  96.035   1.549  1.00 71.75      A16S
ATOM  25890  N6  A  A1227     228.833  96.860   2.022  1.00 71.75      A16S
ATOM  25891  C5  A  A1227     231.086  96.432   1.260  1.00 71.75      A16S
ATOM  25892  N7  A  A1227     231.735  97.650   1.378  1.00 71.75      A16S
ATOM  25893  C8  A  A1227     232.939  97.401   0.935  1.00 71.75      A16S
ATOM  25894  C2* A  A1227     234.983  96.511  -1.033  1.00 59.15      A16S
ATOM  25895  O2* A  A1227     235.469  95.879  -2.197  1.00 59.15      A16S
ATOM  25896  C3* A  A1227     236.075  97.074  -0.124  1.00 59.15      A16S
ATOM  25897  O3* A  A1227     237.117  97.654  -0.893  1.00 59.15      A16S
ATOM  25898  P   C  A1228     236.831  99.014  -1.690  1.00 39.03      A16S
ATOM  25899  O1P C  A1228     237.901  99.201  -2.706  1.00 69.10      A16S
ATOM  25900  O2P C  A1228     236.559 100.084  -0.700  1.00 69.10      A16S
ATOM  25901  O5* C  A1228     235.472  98.683  -2.440  1.00 39.03      A16S
ATOM  25902  C5* C  A1228     234.655  99.726  -2.966  1.00 39.03      A16S
ATOM  25903  C4* C  A1228     233.273  99.206  -3.266  1.00 39.03      A16S
ATOM  25904  O4* C  A1228     232.707  98.646  -2.056  1.00 39.03      A16S
ATOM  25905  C1* C  A1228     231.360  99.068  -1.915  1.00 39.03      A16S
ATOM  25906  N1  C  A1228     231.281  99.975  -0.747  1.00 69.10      A16S
ATOM  25907  C6  C  A1228     232.361 100.730  -0.376  1.00 69.10      A16S
ATOM  25908  C2  C  A1228     230.070 100.088  -0.047  1.00 69.10      A16S
ATOM  25909  O2  C  A1228     229.125  99.342  -0.345  1.00 69.10      A16S
ATOM  25910  N3  C  A1228     229.966 101.004   0.943  1.00 69.10      A16S
ATOM  25911  C4  C  A1228     231.016 101.763   1.265  1.00 69.10      A16S
ATOM  25912  N4  C  A1228     230.859 102.673   2.225  1.00 69.10      A16S
ATOM  25913  C5  C  A1228     232.271 101.628   0.611  1.00 69.10      A16S
ATOM  25914  C2* C  A1228     230.970  99.799  -3.207  1.00 39.03      A16S
ATOM  25915  O2* C  A1228     230.339  98.919  -4.113  1.00 39.03      A16S
ATOM  25916  C3* C  A1228     232.319 100.308  -3.684  1.00 39.03      A16S
ATOM  25917  O3* C  A1228     232.381 100.532  -5.076  1.00 39.03      A16S
ATOM  25918  P   A  A1229     232.213 102.018  -5.637  1.00 38.31      A16S
ATOM  25919  O1P A  A1229     232.475 102.016  -7.099  1.00 73.80      A16S
ATOM  25920  O2P A  A1229     232.999 102.921  -4.760  1.00 73.80      A16S
ATOM  25921  O5* A  A1229     230.674 102.343  -5.387  1.00 38.31      A16S
ATOM  25922  C5* A  A1229     229.654 101.873  -6.285  1.00 38.31      A16S
ATOM  25923  C4* A  A1229     228.348 102.554  -5.975  1.00 38.31      A16S
ATOM  25924  O4* A  A1229     227.877 102.113  -4.680  1.00 38.31      A16S
ATOM  25925  C1* A  A1229     227.287 103.198  -3.985  1.00 38.31      A16S
ATOM  25926  N9  A  A1229     228.031 103.408  -2.740  1.00 73.80      A16S
ATOM  25927  C4  A  A1229     227.774 104.368  -1.788  1.00 73.80      A16S
ATOM  25928  N3  A  A1229     226.770 105.261  -1.779  1.00 73.80      A16S
ATOM  25929  C2  A  A1229     226.862 106.055  -0.724  1.00 73.80      A16S
ATOM  25930  N1  A  A1229     227.779 106.073   0.243  1.00 73.80      A16S
ATOM  25931  C6  A  A1229     228.775 105.164   0.208  1.00 73.80      A16S
ATOM  25932  N6  A  A1229     229.704 105.193   1.167  1.00 73.80      A16S
ATOM  25933  C5  A  A1229     228.778 104.244  -0.849  1.00 73.80      A16S
ATOM  25934  N7  A  A1229     229.623 103.190  -1.167  1.00 73.80      A16S
ATOM  25935  C8  A  A1229     229.136 102.726  -2.291  1.00 73.80      A16S
ATOM  25936  C2* A  A1229     227.317 104.416  -4.909  1.00 38.31      A16S
ATOM  25937  O2* A  A1229     226.074 104.536  -5.552  1.00 38.31      A16S
ATOM  25938  C3* A  A1229     228.451 104.063  -5.860  1.00 38.31      A16S
ATOM  25939  O3* A  A1229     228.316 104.673  -7.132  1.00 38.31      A16S
ATOM  25940  P   C  A1230     228.942 106.125  -7.383  1.00 37.26      A16S
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ATOM  25941  O1P C   A1230     228.971 106.411  -8.830  1.00 58.87      A16S
ATOM  25942  O2P C   A1230     230.197 106.211  -6.598  1.00 58.87      A16S
ATOM  25943  O5* C   A1230     227.849 107.089  -6.763  1.00 37.26      A16S
ATOM  25944  C5* C   A1230     226.512 107.080  -7.270  1.00 37.26      A16S
ATOM  25945  C4* C   A1230     225.615 107.934  -6.407  1.00 37.26      A16S
ATOM  25946  O4* C   A1230     225.514 107.369  -5.073  1.00 37.26      A16S
ATOM  25947  C1* C   A1230     225.377 108.415  -4.123  1.00 37.26      A16S
ATOM  25948  N1   C   A1230     226.535 108.390  -3.214  1.00 58.87      A16S
ATOM  25949  C6   C   A1230     227.612 107.593  -3.462  1.00 58.87      A16S
ATOM  25950  C2   C   A1230     226.519 109.218  -2.099  1.00 58.87      A16S
ATOM  25951  O2   C   A1230     225.521 109.907  -1.887  1.00 58.87      A16S
ATOM  25952  N3   C   A1230     227.582 109.250  -1.280  1.00 58.87      A16S
ATOM  25953  C4   C   A1230     228.637 108.485  -1.537  1.00 58.87      A16S
ATOM  25954  N4   C   A1230     229.679 108.561  -0.709  1.00 58.87      A16S
ATOM  25955  C5   C   A1230     228.675 107.608  -2.657  1.00 58.87      A16S
ATOM  25956  C2* C   A1230     225.334 109.731  -4.896  1.00 37.26      A16S
ATOM  25957  O2* C   A1230     223.984 110.077  -5.144  1.00 37.26      A16S
ATOM  25958  C3* C   A1230     226.084 109.354  -6.161  1.00 37.26      A16S
ATOM  25959  O3* C   A1230     225.763 110.202  -7.225  1.00 37.26      A16S
ATOM  25960  P    G   A1231     226.475 111.628  -7.316  1.00 45.75      A16S
ATOM  25961  O1P G   A1231     226.034 112.269  -8.590  1.00 57.43      A16S
ATOM  25962  O2P G   A1231     227.932 111.468  -7.028  1.00 57.43      A16S
ATOM  25963  O5* G   A1231     225.816 112.434  -6.116  1.00 45.75      A16S
ATOM  25964  C5* G   A1231     224.436 112.824  -6.169  1.00 45.75      A16S
ATOM  25965  C4* G   A1231     224.093 113.683  -4.982  1.00 45.75      A16S
ATOM  25966  O4* G   A1231     224.314 112.926  -3.765  1.00 45.75      A16S
ATOM  25967  C1* G   A1231     224.759 113.794  -2.748  1.00 45.75      A16S
ATOM  25968  N9   G   A1231     226.090 113.370  -2.348  1.00 57.43      A16S
ATOM  25969  C4   G   A1231     226.755 113.759  -1.221  1.00 57.43      A16S
ATOM  25970  N3   G   A1231     226.293 114.613  -0.289  1.00 57.43      A16S
ATOM  25971  C2   G   A1231     227.154 114.782   0.688  1.00 57.43      A16S
ATOM  25972  N2   G   A1231     226.856 115.610   1.693  1.00 57.43      A16S
ATOM  25973  N1   G   A1231     228.370 114.154   0.750  1.00 57.43      A16S
ATOM  25974  C6   G   A1231     228.861 113.270  -0.201  1.00 57.43      A16S
ATOM  25975  O6   G   A1231     229.964 112.742  -0.044  1.00 57.43      A16S
ATOM  25976  C5   G   A1231     227.956 113.095  -1.258  1.00 57.43      A16S
ATOM  25977  N7   G   A1231     228.054 112.320  -2.399  1.00 57.43      A16S
ATOM  25978  C8   G   A1231     226.921 112.513  -3.013  1.00 57.43      A16S
ATOM  25979  C2* G   A1231     224.762 115.211  -3.316  1.00 45.75      A16S
ATOM  25980  O2* G   A1231     223.507 115.802  -3.058  1.00 45.75      A16S
ATOM  25981  C3* G   A1231     224.926 114.938  -4.794  1.00 45.75      A16S
ATOM  25982  O3* G   A1231     224.459 116.016  -5.568  1.00 45.75      A16S
ATOM  25983  P    U   A1232     225.517 117.076  -6.144  1.00 37.20      A16S
ATOM  25984  O1P U   A1232     224.851 118.023  -7.083  1.00 47.94      A16S
ATOM  25985  O2P U   A1232     226.717 116.312  -6.593  1.00 47.94      A16S
ATOM  25986  O5* U   A1232     225.929 117.907  -4.858  1.00 37.20      A16S
ATOM  25987  C5* U   A1232     224.988 118.770  -4.225  1.00 37.20      A16S
ATOM  25988  C4* U   A1232     225.554 119.267  -2.933  1.00 37.20      A16S
ATOM  25989  O4* U   A1232     225.992 118.137  -2.142  1.00 37.20      A16S
ATOM  25990  C1* U   A1232     227.135 118.494  -1.405  1.00 37.20      A16S
ATOM  25991  N1   U   A1232     228.182 117.505  -1.680  1.00 47.94      A16S
ATOM  25992  C6   U   A1232     228.227 116.836  -2.864  1.00 47.94      A16S
ATOM  25993  C2   U   A1232     229.122 117.271  -0.696  1.00 47.94      A16S
ATOM  25994  O2   U   A1232     229.121 117.856   0.368  1.00 47.94      A16S
ATOM  25995  N3   U   A1232     230.068 116.333  -1.006  1.00 47.94      A16S
ATOM  25996  C4   U   A1232     230.170 115.634  -2.174  1.00 47.94      A16S
ATOM  25997  O4   U   A1232     231.090 114.844  -2.323  1.00 47.94      A16S
ATOM  25998  C5   U   A1232     229.166 115.934  -3.139  1.00 47.94      A16S
ATOM  25999  C2* U   A1232     227.509 119.931  -1.775  1.00 37.20      A16S
ATOM  26000  O2* U   A1232     226.993 120.814  -0.816  1.00 37.20      A16S
ATOM  26001  C3* U   A1232     226.790 120.116  -3.096  1.00 37.20      A16S
ATOM  26002  O3* U   A1232     226.413 121.460  -3.316  1.00 37.20      A16S
ATOM  26003  P    G   A1233     227.447 122.449  -4.019  1.00 42.49      A16S
ATOM  26004  O1P G   A1233     226.773 123.754  -4.233  1.00 63.29      A16S
ATOM  26005  O2P G   A1233     228.053 121.743  -5.176  1.00 63.29      A16S
ATOM  26006  O5* G   A1233     228.569 122.580  -2.898  1.00 42.49      A16S
ATOM  26007  C5* G   A1233     229.974 122.544  -3.216  1.00 42.49      A16S
ATOM  26008  C4* G   A1233     230.784 122.288  -1.962  1.00 42.49      A16S
ATOM  26009  O4* G   A1233     230.662 120.895  -1.574  1.00 42.49      A16S
ATOM  26010  C1* G   A1233     231.890 120.438  -1.032  1.00 42.49      A16S
ATOM  26011  N9   G   A1233     232.347 119.297  -1.820  1.00 63.29      A16S
ATOM  26012  C4   G   A1233     233.456 118.524  -1.576  1.00 63.29      A16S
ATOM  26013  N3   G   A1233     234.331 118.691  -0.565  1.00 63.29      A16S
ATOM  26014  C2   G   A1233     235.306 117.800  -0.608  1.00 63.29      A16S
ATOM  26015  N2   G   A1233     236.283 117.832   0.306  1.00 63.29      A16S
ATOM  26016  N1   G   A1233     235.405 116.814  -1.555  1.00 63.29      A16S
ATOM  26017  C6   G   A1233     234.516 116.621  -2.604  1.00 63.29      A16S
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ATOM  26018  O6  G  A1233     234.703 115.698  -3.414  1.00 63.29      A16S
ATOM  26019  C5  G  A1233     233.469 117.577  -2.578  1.00 63.29      A16S
ATOM  26020  N7  G  A1233     232.391 117.750  -3.435  1.00 63.29      A16S
ATOM  26021  C8  G  A1233     231.755 118.780  -2.948  1.00 63.29      A16S
ATOM  26022  C2* G  A1233     232.868 121.612  -1.027  1.00 42.49      A16S
ATOM  26023  O2* G  A1233     232.892 122.181   0.268  1.00 42.49      A16S
ATOM  26024  C3* G  A1233     232.276 122.514  -2.101  1.00 42.49      A16S
ATOM  26025  O3* G  A1233     232.572 123.885  -1.904  1.00 42.49      A16S
ATOM  26026  P   C  A1234     233.717 124.580  -2.785  1.00 45.46      A16S
ATOM  26027  O1P C  A1234     233.626 126.055  -2.597  1.00 60.22      A16S
ATOM  26028  O2P C  A1234     233.638 124.029  -4.155  1.00 60.22      A16S
ATOM  26029  O5* C  A1234     235.046 124.030  -2.096  1.00 45.46      A16S
ATOM  26030  C5* C  A1234     235.340 124.341  -0.721  1.00 45.46      A16S
ATOM  26031  C4* C  A1234     236.589 123.629  -0.275  1.00 45.46      A16S
ATOM  26032  O4* C  A1234     236.345 122.207  -0.293  1.00 45.46      A16S
ATOM  26033  C1* C  A1234     237.491 121.527  -0.762  1.00 45.46      A16S
ATOM  26034  N1  C  A1234     237.114 120.793  -1.984  1.00 60.22      A16S
ATOM  26035  C6  C  A1234     236.165 121.287  -2.840  1.00 60.22      A16S
ATOM  26036  C2  C  A1234     237.743 119.580  -2.258  1.00 60.22      A16S
ATOM  26037  O2  C  A1234     238.606 119.160  -1.472  1.00 60.22      A16S
ATOM  26038  N3  C  A1234     237.400 118.893  -3.372  1.00 60.22      A16S
ATOM  26039  C4  C  A1234     236.476 119.381  -4.196  1.00 60.22      A16S
ATOM  26040  N4  C  A1234     236.175 118.670  -5.274  1.00 60.22      A16S
ATOM  26041  C5  C  A1234     235.821 120.620  -3.947  1.00 60.22      A16S
ATOM  26042  C2* C  A1234     238.601 122.560  -0.980  1.00 45.46      A16S
ATOM  26043  O2* C  A1234     239.476 122.591   0.130  1.00 45.46      A16S
ATOM  26044  C3* C  A1234     237.793 123.837  -1.173  1.00 45.46      A16S
ATOM  26045  O3* C  A1234     238.503 125.006  -0.808  1.00 45.46      A16S
ATOM  26046  P   U  A1235     239.369 125.776  -1.912  1.00 55.44      A16S
ATOM  26047  O1P U  A1235     240.025 126.930  -1.249  1.00 58.67      A16S
ATOM  26048  O2P U  A1235     238.546 126.003  -3.137  1.00 58.67      A16S
ATOM  26049  O5* U  A1235     240.493 124.708  -2.226  1.00 55.44      A16S
ATOM  26050  C5* U  A1235     241.422 124.344  -1.216  1.00 55.44      A16S
ATOM  26051  C4* U  A1235     242.465 123.440  -1.793  1.00 55.44      A16S
ATOM  26052  O4* U  A1235     241.960 122.086  -1.879  1.00 55.44      A16S
ATOM  26053  C1* U  A1235     242.518 121.447  -3.015  1.00 55.44      A16S
ATOM  26054  N1  U  A1235     241.429 121.032  -3.922  1.00 58.67      A16S
ATOM  26055  C6  U  A1235     240.251 121.727  -3.977  1.00 58.67      A16S
ATOM  26056  C2  U  A1235     241.641 119.927  -4.744  1.00 58.67      A16S
ATOM  26057  O2  U  A1235     242.653 119.248  -4.713  1.00 58.67      A16S
ATOM  26058  N3  U  A1235     240.620 119.644  -5.604  1.00 58.67      A16S
ATOM  26059  C4  U  A1235     239.434 120.322  -5.729  1.00 58.67      A16S
ATOM  26060  O4  U  A1235     238.657 120.019  -6.638  1.00 58.67      A16S
ATOM  26061  C5  U  A1235     239.277 121.419  -4.824  1.00 58.67      A16S
ATOM  26062  C2* U  A1235     243.473 122.447  -3.670  1.00 55.44      A16S
ATOM  26063  O2* U  A1235     244.767 122.259  -3.146  1.00 55.44      A16S
ATOM  26064  C3* U  A1235     242.899 123.773  -3.205  1.00 55.44      A16S
ATOM  26065  O3* U  A1235     243.843 124.830  -3.250  1.00 55.44      A16S
ATOM  26066  P   A  A1236     244.273 125.448  -4.672  1.00 48.36      A16S
ATOM  26067  O1P A  A1236     245.428 126.336  -4.402  1.00 57.42      A16S
ATOM  26068  O2P A  A1236     243.084 126.001  -5.363  1.00 57.42      A16S
ATOM  26069  O5* A  A1236     244.794 124.153  -5.443  1.00 48.36      A16S
ATOM  26070  C5* A  A1236     244.874 124.084  -6.874  1.00 48.36      A16S
ATOM  26071  C4* A  A1236     245.353 122.708  -7.275  1.00 48.36      A16S
ATOM  26072  O4* A  A1236     244.381 121.734  -6.818  1.00 48.36      A16S
ATOM  26073  C1* A  A1236     244.281 120.680  -7.757  1.00 48.36      A16S
ATOM  26074  N9  A  A1236     242.912 120.670  -8.288  1.00 57.42      A16S
ATOM  26075  C4  A  A1236     242.285 119.631  -8.929  1.00 57.42      A16S
ATOM  26076  N3  A  A1236     242.777 118.412  -9.172  1.00 57.42      A16S
ATOM  26077  C2  A  A1236     241.896 117.680  -9.837  1.00 57.42      A16S
ATOM  26078  N1  A  A1236     240.678 118.002 -10.263  1.00 57.42      A16S
ATOM  26079  C6  A  A1236     240.217 119.238 -10.012  1.00 57.42      A16S
ATOM  26080  N6  A  A1236     239.010 119.572 -10.469  1.00 57.42      A16S
ATOM  26081  C5  A  A1236     241.044 120.107  -9.295  1.00 57.42      A16S
ATOM  26082  N7  A  A1236     240.872 121.412  -8.867  1.00 57.42      A16S
ATOM  26083  C8  A  A1236     242.002 121.697  -8.273  1.00 57.42      A16S
ATOM  26084  C2* A  A1236     245.357 120.916  -8.823  1.00 48.36      A16S
ATOM  26085  O2* A  A1236     246.543 120.268  -8.405  1.00 48.36      A16S
ATOM  26086  C3* A  A1236     245.536 122.426  -8.761  1.00 48.36      A16S
ATOM  26087  O3* A  A1236     246.850 122.790  -9.182  1.00 48.36      A16S
ATOM  26088  P   C  A1237     247.056 123.669 -10.510  1.00 51.60      A16S
ATOM  26089  O1P C  A1237     248.313 124.417 -10.327  1.00 47.58      A16S
ATOM  26090  O2P C  A1237     245.812 124.410 -10.830  1.00 47.58      A16S
ATOM  26091  O5* C  A1237     247.284 122.592 -11.657  1.00 51.60      A16S
ATOM  26092  C5* C  A1237     248.346 121.643 -11.554  1.00 51.60      A16S
ATOM  26093  C4* C  A1237     247.963 120.350 -12.227  1.00 51.60      A16S
ATOM  26094  O4* C  A1237     246.817 119.773 -11.557  1.00 51.60      A16S
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ATOM  26095  C1* C   A1237     246.001 119.108 -12.503  1.00 51.60      A16S
ATOM  26096  N1  C   A1237     244.655 119.721 -12.480  1.00 47.58      A16S
ATOM  26097  C6  C   A1237     244.494 121.038 -12.159  1.00 47.58      A16S
ATOM  26098  C2  C   A1237     243.539 118.941 -12.827  1.00 47.58      A16S
ATOM  26099  O2  C   A1237     243.691 117.725 -13.043  1.00 47.58      A16S
ATOM  26100  N3  C   A1237     242.326 119.529 -12.910  1.00 47.58      A16S
ATOM  26101  C4  C   A1237     242.199 120.825 -12.648  1.00 47.58      A16S
ATOM  26102  N4  C   A1237     241.010 121.376 -12.802  1.00 47.58      A16S
ATOM  26103  C5  C   A1237     243.297 121.620 -12.230  1.00 47.58      A16S
ATOM  26104  C2* C   A1237     246.692 119.211 -13.872  1.00 51.60      A16S
ATOM  26105  O2* C   A1237     247.462 118.050 -14.106  1.00 51.60      A16S
ATOM  26106  C3* C   A1237     247.585 120.434 -13.696  1.00 51.60      A16S
ATOM  26107  O3* C   A1237     248.773 120.296 -14.464  1.00 51.60      A16S
ATOM  26108  P   A   A1238     248.746 120.509 -16.053  1.00 39.56      A16S
ATOM  26109  O1P A   A1238     247.400 120.170 -16.561  1.00 72.47      A16S
ATOM  26110  O2P A   A1238     249.925 119.805 -16.612  1.00 72.47      A16S
ATOM  26111  O5* A   A1238     248.994 122.070 -16.232  1.00 39.56      A16S
ATOM  26112  C5* A   A1238     247.899 122.970 -16.204  1.00 39.56      A16S
ATOM  26113  C4* A   A1238     248.273 124.268 -15.525  1.00 39.56      A16S
ATOM  26114  O4* A   A1238     248.833 124.037 -14.207  1.00 39.56      A16S
ATOM  26115  C1* A   A1238     249.622 125.152 -13.844  1.00 39.56      A16S
ATOM  26116  N9  A   A1238     250.985 124.725 -13.550  1.00 72.47      A16S
ATOM  26117  C4  A   A1238     251.930 125.543 -12.984  1.00 72.47      A16S
ATOM  26118  N3  A   A1238     251.766 126.815 -12.582  1.00 72.47      A16S
ATOM  26119  C2  A   A1238     252.902 127.301 -12.089  1.00 72.47      A16S
ATOM  26120  N1  A   A1238     254.092 126.709 -11.969  1.00 72.47      A16S
ATOM  26121  C6  A   A1238     254.222 125.432 -12.388  1.00 72.47      A16S
ATOM  26122  N6  A   A1238     255.410 124.845 -12.277  1.00 72.47      A16S
ATOM  26123  C5  A   A1238     253.087 124.797 -12.923  1.00 72.47      A16S
ATOM  26124  N7  A   A1238     252.874 123.522 -13.426  1.00 72.47      A16S
ATOM  26125  C8  A   A1238     251.612 123.528 -13.777  1.00 72.47      A16S
ATOM  26126  C2* A   A1238     249.638 126.109 -15.034  1.00 39.56      A16S
ATOM  26127  O2* A   A1238     248.609 127.062 -14.875  1.00 39.56      A16S
ATOM  26128  C3* A   A1238     249.277 125.194 -16.184  1.00 39.56      A16S
ATOM  26129  O3* A   A1238     248.661 126.000 -17.158  1.00 39.56      A16S
ATOM  26130  P   A   A1239     249.565 126.830 -18.183  1.00 43.76      A16S
ATOM  26131  O1P A   A1239     248.674 127.724 -18.974  1.00 54.03      A16S
ATOM  26132  O2P A   A1239     250.463 125.865 -18.879  1.00 54.03      A16S
ATOM  26133  O5* A   A1239     250.467 127.769 -17.268  1.00 43.76      A16S
ATOM  26134  C5* A   A1239     250.000 129.065 -16.858  1.00 43.76      A16S
ATOM  26135  C4* A   A1239     251.079 130.117 -17.052  1.00 43.76      A16S
ATOM  26136  O4* A   A1239     252.249 129.774 -16.262  1.00 43.76      A16S
ATOM  26137  C1* A   A1239     253.393 129.885 -17.059  1.00 43.76      A16S
ATOM  26138  N9  A   A1239     254.376 128.918 -16.598  1.00 54.03      A16S
ATOM  26139  C4  A   A1239     255.714 129.167 -16.433  1.00 54.03      A16S
ATOM  26140  N3  A   A1239     256.356 130.333 -16.627  1.00 54.03      A16S
ATOM  26141  C2  A   A1239     257.662 130.191 -16.397  1.00 54.03      A16S
ATOM  26142  N1  A   A1239     258.344 129.100 -16.026  1.00 54.03      A16S
ATOM  26143  C6  A   A1239     257.665 127.949 -15.841  1.00 54.03      A16S
ATOM  26144  N6  A   A1239     258.344 126.859 -15.482  1.00 54.03      A16S
ATOM  26145  C5  A   A1239     256.275 127.969 -16.045  1.00 54.03      A16S
ATOM  26146  N7  A   A1239     255.301 126.988 -15.935  1.00 54.03      A16S
ATOM  26147  C8  A   A1239     254.195 127.606 -16.267  1.00 54.03      A16S
ATOM  26148  C2* A   A1239     252.919 129.655 -18.489  1.00 43.76      A16S
ATOM  26149  O2* A   A1239     253.852 130.168 -19.415  1.00 43.76      A16S
ATOM  26150  C3* A   A1239     251.568 130.363 -18.474  1.00 43.76      A16S
ATOM  26151  O3* A   A1239     251.750 131.765 -18.669  1.00 43.76      A16S
ATOM  26152  P   U   A1240     250.735 132.585 -19.619  1.00 58.33      A16S
ATOM  26153  O1P U   A1240     250.040 131.614 -20.501  1.00 59.03      A16S
ATOM  26154  O2P U   A1240     251.445 133.736 -20.236  1.00 59.03      A16S
ATOM  26155  O5* U   A1240     249.661 133.167 -18.594  1.00 58.33      A16S
ATOM  26156  C5* U   A1240     249.940 134.347 -17.803  1.00 58.33      A16S
ATOM  26157  C4* U   A1240     248.679 134.849 -17.126  1.00 58.33      A16S
ATOM  26158  O4* U   A1240     247.745 135.368 -18.114  1.00 58.33      A16S
ATOM  26159  C1* U   A1240     246.483 134.781 -17.913  1.00 58.33      A16S
ATOM  26160  N1  U   A1240     245.778 134.686 -19.199  1.00 59.03      A16S
ATOM  26161  C6  U   A1240     246.179 133.826 -20.183  1.00 59.03      A16S
ATOM  26162  C2  U   A1240     244.672 135.502 -19.385  1.00 59.03      A16S
ATOM  26163  O2  U   A1240     244.270 136.288 -18.547  1.00 59.03      A16S
ATOM  26164  N3  U   A1240     244.044 135.368 -20.591  1.00 59.03      A16S
ATOM  26165  C4  U   A1240     244.383 134.524 -21.609  1.00 59.03      A16S
ATOM  26166  O4  U   A1240     243.665 134.470 -22.611  1.00 59.03      A16S
ATOM  26167  C5  U   A1240     245.537 133.718 -21.351  1.00 59.03      A16S
ATOM  26168  C2* U   A1240     246.751 133.456 -17.211  1.00 58.33      A16S
ATOM  26169  O2* U   A1240     245.600 133.075 -16.502  1.00 58.33      A16S
ATOM  26170  C3* U   A1240     247.913 133.825 -16.297  1.00 58.33      A16S
ATOM  26171  O3* U   A1240     247.373 134.466 -15.151  1.00 58.33      A16S
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ATOM  26172  P    G  A1241     248.208 134.501 -13.779  1.00 51.77      A16S
ATOM  26173  O1P  G  A1241     247.247 134.687 -12.660  1.00 49.04      A16S
ATOM  26174  O2P  G  A1241     249.316 135.473 -13.962  1.00 49.04      A16S
ATOM  26175  O5*  G  A1241     248.822 133.040 -13.634  1.00 51.77      A16S
ATOM  26176  C5*  G  A1241     247.973 131.897 -13.446  1.00 51.77      A16S
ATOM  26177  C4*  G  A1241     248.772 130.735 -12.910  1.00 51.77      A16S
ATOM  26178  O4*  G  A1241     249.775 130.374 -13.883  1.00 51.77      A16S
ATOM  26179  C1*  G  A1241     250.982 130.041 -13.228  1.00 51.77      A16S
ATOM  26180  N9   G  A1241     252.001 131.019 -13.615  1.00 49.04      A16S
ATOM  26181  C4   G  A1241     253.360 130.867 -13.480  1.00 49.04      A16S
ATOM  26182  N3   G  A1241     253.987 129.797 -12.949  1.00 49.04      A16S
ATOM  26183  C2   G  A1241     255.293 129.928 -12.970  1.00 49.04      A16S
ATOM  26184  N2   G  A1241     256.052 128.954 -12.479  1.00 49.04      A16S
ATOM  26185  N1   G  A1241     255.947 131.022 -13.473  1.00 49.04      A16S
ATOM  26186  C6   G  A1241     255.328 132.138 -14.030  1.00 49.04      A16S
ATOM  26187  O6   G  A1241     256.014 133.066 -14.476  1.00 49.04      A16S
ATOM  26188  C5   G  A1241     253.911 132.015 -14.004  1.00 49.04      A16S
ATOM  26189  N7   G  A1241     252.919 132.886 -14.441  1.00 49.04      A16S
ATOM  26190  C8   G  A1241     251.806 132.255 -14.191  1.00 49.04      A16S
ATOM  26191  C2*  G  A1241     250.698 130.031 -11.730  1.00 51.77      A16S
ATOM  26192  O2*  G  A1241     250.298 128.730 -11.375  1.00 51.77      A16S
ATOM  26193  C3*  G  A1241     249.542 131.010 -11.632  1.00 51.77      A16S
ATOM  26194  O3*  G  A1241     248.734 130.719 -10.514  1.00 51.77      A16S
ATOM  26195  P    C  A1242     249.206 131.162  -9.049  1.00 49.60      A16S
ATOM  26196  O1P  C  A1242     248.139 130.761  -8.093  1.00 54.94      A16S
ATOM  26197  O2P  C  A1242     249.633 132.578  -9.117  1.00 54.94      A16S
ATOM  26198  O5*  C  A1242     250.471 130.251  -8.746  1.00 49.60      A16S
ATOM  26199  C5*  C  A1242     250.293 128.966  -8.156  1.00 49.60      A16S
ATOM  26200  C4*  C  A1242     251.618 128.393  -7.729  1.00 49.60      A16S
ATOM  26201  O4*  C  A1242     252.468 128.212  -8.893  1.00 49.60      A16S
ATOM  26202  C1*  C  A1242     253.817 128.470  -8.544  1.00 49.60      A16S
ATOM  26203  N1   C  A1242     254.228 129.710  -9.223  1.00 54.94      A16S
ATOM  26204  C6   C  A1242     253.305 130.512  -9.836  1.00 54.94      A16S
ATOM  26205  C2   C  A1242     255.575 130.066  -9.220  1.00 54.94      A16S
ATOM  26206  O2   C  A1242     256.394 129.317  -8.653  1.00 54.94      A16S
ATOM  26207  N3   C  A1242     255.951 131.214  -9.825  1.00 54.94      A16S
ATOM  26208  C4   C  A1242     255.040 131.991 -10.410  1.00 54.94      A16S
ATOM  26209  N4   C  A1242     255.451 133.117 -10.988  1.00 54.94      A16S
ATOM  26210  C5   C  A1242     253.665 131.650 -10.430  1.00 54.94      A16S
ATOM  26211  C2*  C  A1242     253.854 128.675  -7.032  1.00 49.60      A16S
ATOM  26212  O2*  C  A1242     254.081 127.434  -6.378  1.00 49.60      A16S
ATOM  26213  C3*  C  A1242     252.459 129.233  -6.785  1.00 49.60      A16S
ATOM  26214  O3*  C  A1242     252.066 129.135  -5.427  1.00 49.60      A16S
ATOM  26215  P    C  A1243     252.402 130.344  -4.433  1.00 54.73      A16S
ATOM  26216  O1P  C  A1243     251.895 129.967  -3.100  1.00 45.15      A16S
ATOM  26217  O2P  C  A1243     251.951 131.605  -5.071  1.00 45.15      A16S
ATOM  26218  O5*  C  A1243     253.993 130.337  -4.352  1.00 54.73      A16S
ATOM  26219  C5*  C  A1243     254.701 129.183  -3.838  1.00 54.73      A16S
ATOM  26220  C4*  C  A1243     256.198 129.437  -3.825  1.00 54.73      A16S
ATOM  26221  O4*  C  A1243     256.667 129.635  -5.183  1.00 54.73      A16S
ATOM  26222  C1*  C  A1243     257.667 130.636  -5.203  1.00 54.73      A16S
ATOM  26223  N1   C  A1243     257.179 131.751  -6.020  1.00 45.15      A16S
ATOM  26224  C6   C  A1243     255.862 131.840  -6.362  1.00 45.15      A16S
ATOM  26225  C2   C  A1243     258.084 132.710  -6.459  1.00 45.15      A16S
ATOM  26226  O2   C  A1243     259.257 132.633  -6.085  1.00 45.15      A16S
ATOM  26227  N3   C  A1243     257.655 133.704  -7.271  1.00 45.15      A16S
ATOM  26228  C4   C  A1243     256.367 133.767  -7.619  1.00 45.15      A16S
ATOM  26229  N4   C  A1243     255.975 134.752  -8.433  1.00 45.15      A16S
ATOM  26230  C5   C  A1243     255.419 132.821  -7.152  1.00 45.15      A16S
ATOM  26231  C2*  C  A1243     257.956 131.049  -3.765  1.00 54.73      A16S
ATOM  26232  O2*  C  A1243     259.072 130.311  -3.310  1.00 54.73      A16S
ATOM  26233  C3*  C  A1243     256.642 130.688  -3.080  1.00 54.73      A16S
ATOM  26234  O3*  C  A1243     256.768 130.465  -1.677  1.00 54.73      A16S
ATOM  26235  P    C  A1244     256.364 131.640  -0.656  1.00 77.61      A16S
ATOM  26236  O1P  C  A1244     256.191 131.004   0.673  1.00 60.67      A16S
ATOM  26237  O2P  C  A1244     255.260 132.454  -1.240  1.00 60.67      A16S
ATOM  26238  O5*  C  A1244     257.642 132.587  -0.643  1.00 77.61      A16S
ATOM  26239  C5*  C  A1244     258.944 132.078  -0.296  1.00 77.61      A16S
ATOM  26240  C4*  C  A1244     260.007 133.095  -0.632  1.00 77.61      A16S
ATOM  26241  O4*  C  A1244     260.130 133.227  -2.071  1.00 77.61      A16S
ATOM  26242  C1*  C  A1244     260.500 134.554  -2.392  1.00 77.61      A16S
ATOM  26243  N1   C  A1244     259.534 135.113  -3.348  1.00 60.67      A16S
ATOM  26244  C6   C  A1244     258.266 134.621  -3.453  1.00 60.67      A16S
ATOM  26245  C2   C  A1244     259.944 136.186  -4.157  1.00 60.67      A16S
ATOM  26246  O2   C  A1244     261.108 136.613  -4.047  1.00 60.67      A16S
ATOM  26247  N3   C  A1244     259.071 136.731  -5.032  1.00 60.67      A16S
ATOM  26248  C4   C  A1244     257.836 136.250  -5.121  1.00 60.67      A16S
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ATOM  26249  N4  C   A1244     257.009 136.825  -5.994  1.00 60.67      A16S
ATOM  26250  C5  C   A1244     257.391 135.156  -4.317  1.00 60.67      A16S
ATOM  26251  C2* C   A1244     260.578 135.359  -1.095  1.00 77.61      A16S
ATOM  26252  O2* C   A1244     261.929 135.477  -0.700  1.00 77.61      A16S
ATOM  26253  C3* C   A1244     259.739 134.510  -0.148  1.00 77.61      A16S
ATOM  26254  O3* C   A1244     260.096 134.689   1.215  1.00 77.61      A16S
ATOM  26255  P   A   A1245     259.447 135.897   2.051  1.00 96.24      A16S
ATOM  26256  O1P A   A1245     260.035 135.782   3.407  1.00 67.32      A16S
ATOM  26257  O2P A   A1245     257.969 135.914   1.893  1.00 67.32      A16S
ATOM  26258  O5* A   A1245     260.028 137.200   1.345  1.00 96.24      A16S
ATOM  26259  C5* A   A1245     261.424 137.494   1.437  1.00 96.24      A16S
ATOM  26260  C4* A   A1245     261.747 138.774   0.718  1.00 96.24      A16S
ATOM  26261  O4* A   A1245     261.561 138.606  -0.705  1.00 96.24      A16S
ATOM  26262  C1* A   A1245     261.201 139.846  -1.279  1.00 96.24      A16S
ATOM  26263  N9  A   A1245     259.947 139.680  -2.004  1.00 67.32      A16S
ATOM  26264  C4  A   A1245     259.532 140.467  -3.053  1.00 67.32      A16S
ATOM  26265  N3  A   A1245     260.195 141.497  -3.613  1.00 67.32      A16S
ATOM  26266  C2  A   A1245     259.478 142.038  -4.594  1.00 67.32      A16S
ATOM  26267  N1  A   A1245     258.265 141.695  -5.042  1.00 67.32      A16S
ATOM  26268  C6  A   A1245     257.624 140.661  -4.454  1.00 67.32      A16S
ATOM  26269  N6  A   A1245     256.407 140.336  -4.888  1.00 67.32      A16S
ATOM  26270  C5  A   A1245     258.283 139.994  -3.405  1.00 67.32      A16S
ATOM  26271  N7  A   A1245     257.924 138.917  -2.606  1.00 67.32      A16S
ATOM  26272  C8  A   A1245     258.944 138.769  -1.795  1.00 67.32      A16S
ATOM  26273  C2* A   A1245     261.082 140.877  -0.154  1.00 96.24      A16S
ATOM  26274  O2* A   A1245     262.252 141.668  -0.134  1.00 96.24      A16S
ATOM  26275  C3* A   A1245     260.908 139.985   1.072  1.00 96.24      A16S
ATOM  26276  O3* A   A1245     261.381 140.593   2.266  1.00 96.24      A16S
ATOM  26277  P   C   A1246     260.361 141.405   3.204  1.00 80.95      A16S
ATOM  26278  O1P C   A1246     261.115 141.777   4.431  1.00112.14      A16S
ATOM  26279  O2P C   A1246     259.106 140.622   3.330  1.00112.14      A16S
ATOM  26280  O5* C   A1246     260.060 142.722   2.358  1.00 80.95      A16S
ATOM  26281  C5* C   A1246     261.133 143.595   1.993  1.00 80.95      A16S
ATOM  26282  C4* C   A1246     260.720 144.519   0.879  1.00 80.95      A16S
ATOM  26283  O4* C   A1246     260.432 143.761  -0.321  1.00 80.95      A16S
ATOM  26284  C1* C   A1246     259.470 144.459  -1.100  1.00 80.95      A16S
ATOM  26285  N1  C   A1246     258.303 143.585  -1.347  1.00112.14      A16S
ATOM  26286  C6  C   A1246     257.981 142.570  -0.487  1.00112.14      A16S
ATOM  26287  C2  C   A1246     257.512 143.822  -2.487  1.00112.14      A16S
ATOM  26288  O2  C   A1246     257.824 144.741  -3.260  1.00112.14      A16S
ATOM  26289  N3  C   A1246     256.431 143.045  -2.713  1.00112.14      A16S
ATOM  26290  C4  C   A1246     256.125 142.063  -1.864  1.00112.14      A16S
ATOM  26291  N4  C   A1246     255.046 141.326  -2.127  1.00112.14      A16S
ATOM  26292  C5  C   A1246     256.912 141.794  -0.705  1.00112.14      A16S
ATOM  26293  C2* C   A1246     259.089 145.731  -0.340  1.00 80.95      A16S
ATOM  26294  O2* C   A1246     259.823 146.830  -0.857  1.00 80.95      A16S
ATOM  26295  C3* C   A1246     259.476 145.365   1.089  1.00 80.95      A16S
ATOM  26296  O3* C   A1246     259.725 146.522   1.873  1.00 80.95      A16S
ATOM  26297  P   U   A1247     258.531 147.161   2.736  1.00108.49      A16S
ATOM  26298  O1P U   A1247     259.061 148.398   3.354  1.00 97.96      A16S
ATOM  26299  O2P U   A1247     257.956 146.097   3.602  1.00 97.96      A16S
ATOM  26300  O5* U   A1247     257.448 147.571   1.642  1.00108.49      A16S
ATOM  26301  C5* U   A1247     257.739 148.584   0.663  1.00108.49      A16S
ATOM  26302  C4* U   A1247     256.602 148.709  -0.328  1.00108.49      A16S
ATOM  26303  O4* U   A1247     256.538 147.529  -1.179  1.00108.49      A16S
ATOM  26304  C1* U   A1247     255.182 147.237  -1.493  1.00108.49      A16S
ATOM  26305  N1  U   A1247     254.822 145.955  -0.869  1.00 97.96      A16S
ATOM  26306  C6  U   A1247     255.515 145.466   0.221  1.00 97.96      A16S
ATOM  26307  C2  U   A1247     253.749 145.261  -1.396  1.00 97.96      A16S
ATOM  26308  O2  U   A1247     253.120 145.652  -2.365  1.00 97.96      A16S
ATOM  26309  N3  U   A1247     253.440 144.094  -0.740  1.00 97.96      A16S
ATOM  26310  C4  U   A1247     254.084 143.560   0.363  1.00 97.96      A16S
ATOM  26311  O4  U   A1247     253.680 142.504   0.854  1.00 97.96      A16S
ATOM  26312  C5  U   A1247     255.190 144.328   0.837  1.00 97.96      A16S
ATOM  26313  C2* U   A1247     254.329 148.354  -0.898  1.00108.49      A16S
ATOM  26314  O2* U   A1247     254.122 149.357  -1.873  1.00108.49      A16S
ATOM  26315  C3* U   A1247     255.205 148.812   0.261  1.00108.49      A16S
ATOM  26316  O3* U   A1247     254.879 150.106   0.721  1.00108.49      A16S
ATOM  26317  P   A   A1248     253.650 150.287   1.735  1.00140.54      A16S
ATOM  26318  O1P A   A1248     253.741 151.674   2.239  1.00 67.22      A16S
ATOM  26319  O2P A   A1248     253.638 149.151   2.698  1.00 67.22      A16S
ATOM  26320  O5* A   A1248     252.378 150.202   0.778  1.00140.54      A16S
ATOM  26321  C5* A   A1248     252.246 151.147  -0.300  1.00140.54      A16S
ATOM  26322  C4* A   A1248     250.896 151.044  -0.975  1.00140.54      A16S
ATOM  26323  O4* A   A1248     250.835 149.912  -1.875  1.00140.54      A16S
ATOM  26324  C1* A   A1248     249.480 149.544  -2.062  1.00140.54      A16S
ATOM  26325  N9  A   A1248     249.310 148.125  -1.751  1.00 67.22      A16S
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ATOM  26326  C4   A   A1248     248.282 147.339  -2.222  1.00 67.22      A16S
ATOM  26327  N3   A   A1248     247.294 147.705  -3.060  1.00 67.22      A16S
ATOM  26328  C2   A   A1248     246.477 146.691  -3.289  1.00 67.22      A16S
ATOM  26329  N1   A   A1248     246.522 145.444  -2.812  1.00 67.22      A16S
ATOM  26330  C6   A   A1248     247.521 145.104  -1.969  1.00 67.22      A16S
ATOM  26331  N6   A   A1248     247.558 143.854  -1.483  1.00 67.22      A16S
ATOM  26332  C5   A   A1248     248.466 146.095  -1.649  1.00 67.22      A16S
ATOM  26333  N7   A   A1248     249.599 146.087  -0.844  1.00 67.22      A16S
ATOM  26334  C8   A   A1248     250.067 147.309  -0.945  1.00 67.22      A16S
ATOM  26335  C2*  A   A1248     248.623 150.430  -1.154  1.00140.54      A16S
ATOM  26336  O2*  A   A1248     248.071 151.483  -1.924  1.00140.54      A16S
ATOM  26337  C3*  A   A1248     249.642 150.921  -0.129  1.00140.54      A16S
ATOM  26338  O3*  A   A1248     249.255 152.170   0.424  1.00140.54      A16S
ATOM  26339  P    C   A1249     248.000 152.246   1.426  1.00105.58      A16S
ATOM  26340  O1P  C   A1249     248.029 153.573   2.073  1.00 65.12      A16S
ATOM  26341  O2P  C   A1249     247.930 151.018   2.272  1.00 65.12      A16S
ATOM  26342  O5*  C   A1249     246.746 152.276   0.452  1.00105.58      A16S
ATOM  26343  C5*  C   A1249     245.435 152.100   0.978  1.00105.58      A16S
ATOM  26344  C4*  C   A1249     244.423 152.034  -0.131  1.00105.58      A16S
ATOM  26345  O4*  C   A1249     244.929 151.221  -1.226  1.00105.58      A16S
ATOM  26346  C1*  C   A1249     243.923 150.312  -1.656  1.00105.58      A16S
ATOM  26347  N1   C   A1249     244.301 148.956  -1.187  1.00 65.12      A16S
ATOM  26348  C6   C   A1249     245.416 148.770  -0.416  1.00 65.12      A16S
ATOM  26349  C2   C   A1249     243.478 147.857  -1.515  1.00 65.12      A16S
ATOM  26350  O2   C   A1249     242.483 148.032  -2.256  1.00 65.12      A16S
ATOM  26351  N3   C   A1249     243.791 146.634  -1.018  1.00 65.12      A16S
ATOM  26352  C4   C   A1249     244.868 146.482  -0.246  1.00 65.12      A16S
ATOM  26353  N4   C   A1249     245.123 145.269   0.233  1.00 65.12      A16S
ATOM  26354  C5   C   A1249     245.729 147.567   0.071  1.00 65.12      A16S
ATOM  26355  C2*  C   A1249     242.622 150.756  -0.978  1.00105.58      A16S
ATOM  26356  O2*  C   A1249     241.947 151.718  -1.759  1.00105.58      A16S
ATOM  26357  C3*  C   A1249     243.157 151.334   0.318  1.00105.58      A16S
ATOM  26358  O3*  C   A1249     242.280 152.184   1.022  1.00105.58      A16S
ATOM  26359  P    A   A1250     241.965 151.870   2.568  1.00115.87      A16S
ATOM  26360  O1P  A   A1250     241.256 153.074   3.071  1.00 59.08      A16S
ATOM  26361  O2P  A   A1250     243.207 151.411   3.247  1.00 59.08      A16S
ATOM  26362  O5*  A   A1250     240.965 150.624   2.545  1.00115.87      A16S
ATOM  26363  C5*  A   A1250     240.070 150.441   1.443  1.00115.87      A16S
ATOM  26364  C4*  A   A1250     238.922 149.510   1.789  1.00115.87      A16S
ATOM  26365  O4*  A   A1250     239.312 148.118   1.734  1.00115.87      A16S
ATOM  26366  C1*  A   A1250     238.299 147.351   2.351  1.00115.87      A16S
ATOM  26367  N9   A   A1250     238.886 146.337   3.222  1.00 59.08      A16S
ATOM  26368  C4   A   A1250     238.567 145.003   3.207  1.00 59.08      A16S
ATOM  26369  N3   A   A1250     237.683 144.392   2.406  1.00 59.08      A16S
ATOM  26370  C2   A   A1250     237.639 143.095   2.669  1.00 59.08      A16S
ATOM  26371  N1   A   A1250     238.327 142.384   3.578  1.00 59.08      A16S
ATOM  26372  C6   A   A1250     239.203 143.029   4.372  1.00 59.08      A16S
ATOM  26373  N6   A   A1250     239.877 142.317   5.282  1.00 59.08      A16S
ATOM  26374  C5   A   A1250     239.343 144.416   4.189  1.00 59.08      A16S
ATOM  26375  N7   A   A1250     240.133 145.363   4.814  1.00 59.08      A16S
ATOM  26376  C8   A   A1250     239.826 146.483   4.205  1.00 59.08      A16S
ATOM  26377  C2*  A   A1250     237.375 148.310   3.097  1.00115.87      A16S
ATOM  26378  O2*  A   A1250     236.212 148.434   2.308  1.00115.87      A16S
ATOM  26379  C3*  A   A1250     238.183 149.608   3.114  1.00115.87      A16S
ATOM  26380  O3*  A   A1250     237.289 150.718   3.180  1.00115.87      A16S
ATOM  26381  P    A   A1251     236.483 151.027   4.552  1.00 85.04      A16S
ATOM  26382  O1P  A   A1251     235.760 152.317   4.331  1.00 55.56      A16S
ATOM  26383  O2P  A   A1251     237.371 150.863   5.741  1.00 55.56      A16S
ATOM  26384  O5*  A   A1251     235.392 149.869   4.657  1.00 85.04      A16S
ATOM  26385  C5*  A   A1251     234.255 149.838   3.776  1.00 85.04      A16S
ATOM  26386  C4*  A   A1251     233.493 148.551   3.959  1.00 85.04      A16S
ATOM  26387  O4*  A   A1251     234.385 147.436   3.728  1.00 85.04      A16S
ATOM  26388  C1*  A   A1251     234.057 146.373   4.595  1.00 85.04      A16S
ATOM  26389  N9   A   A1251     235.230 146.073   5.413  1.00 55.56      A16S
ATOM  26390  C4   A   A1251     235.620 144.833   5.864  1.00 55.56      A16S
ATOM  26391  N3   A   A1251     235.026 143.651   5.627  1.00 55.56      A16S
ATOM  26392  C2   A   A1251     235.678 142.666   6.249  1.00 55.56      A16S
ATOM  26393  N1   A   A1251     236.767 142.727   7.028  1.00 55.56      A16S
ATOM  26394  C6   A   A1251     237.328 143.936   7.249  1.00 55.56      A16S
ATOM  26395  N6   A   A1251     238.394 144.012   8.041  1.00 55.56      A16S
ATOM  26396  C5   A   A1251     236.748 145.051   6.637  1.00 55.56      A16S
ATOM  26397  N7   A   A1251     237.081 146.395   6.653  1.00 55.56      A16S
ATOM  26398  C8   A   A1251     236.156 146.958   5.911  1.00 55.56      A16S
ATOM  26399  C2*  A   A1251     232.844 146.802   5.421  1.00 85.04      A16S
ATOM  26400  O2*  A   A1251     231.665 146.338   4.799  1.00 85.04      A16S
ATOM  26401  C3*  A   A1251     232.943 148.317   5.352  1.00 85.04      A16S
ATOM  26402  O3*  A   A1251     231.671 148.932   5.482  1.00 85.04      A16S
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ATOM	26403	P	A	A1252	231.164	149.419	6.926	1.00	82.63	A16S
ATOM	26404	O1P	A	A1252	229.992	150.302	6.677	1.00	88.21	A16S
ATOM	26405	O2P	A	A1252	232.326	149.945	7.677	1.00	88.21	A16S
ATOM	26406	O5*	A	A1252	230.702	148.075	7.656	1.00	82.63	A16S
ATOM	26407	C5*	A	A1252	229.607	147.277	7.141	1.00	82.63	A16S
ATOM	26408	C4*	A	A1252	229.700	145.858	7.657	1.00	82.63	A16S
ATOM	26409	O4*	A	A1252	230.985	145.312	7.268	1.00	82.63	A16S
ATOM	26410	C1*	A	A1252	231.470	144.449	8.278	1.00	82.63	A16S
ATOM	26411	N9	A	A1252	232.774	144.942	8.729	1.00	88.21	A16S
ATOM	26412	C4	A	A1252	233.711	144.226	9.442	1.00	88.21	A16S
ATOM	26413	N3	A	A1252	233.615	142.955	9.874	1.00	88.21	A16S
ATOM	26414	C2	A	A1252	234.723	142.592	10.521	1.00	88.21	A16S
ATOM	26415	N1	A	A1252	235.832	143.300	10.766	1.00	88.21	A16S
ATOM	26416	C6	A	A1252	235.898	144.573	10.316	1.00	88.21	A16S
ATOM	26417	N6	A	A1252	237.010	145.277	10.548	1.00	88.21	A16S
ATOM	26418	C5	A	A1252	234.784	145.081	9.620	1.00	88.21	A16S
ATOM	26419	N7	A	A1252	234.527	146.319	9.044	1.00	88.21	A16S
ATOM	26420	C8	A	A1252	233.326	146.187	8.533	1.00	88.21	A16S
ATOM	26421	C2*	A	A1252	230.421	144.386	9.388	1.00	82.63	A16S
ATOM	26422	O2*	A	A1252	229.631	143.229	9.219	1.00	82.63	A16S
ATOM	26423	C3*	A	A1252	229.648	145.683	9.167	1.00	82.63	A16S
ATOM	26424	O3*	A	A1252	228.306	145.592	9.652	1.00	82.63	A16S
ATOM	26425	P	G	A1253	228.026	145.609	11.242	1.00	62.70	A16S
ATOM	26426	O1P	G	A1253	226.559	145.416	11.463	1.00	70.11	A16S
ATOM	26427	O2P	G	A1253	228.715	146.804	11.821	1.00	70.11	A16S
ATOM	26428	O5*	G	A1253	228.761	144.301	11.779	1.00	62.70	A16S
ATOM	26429	C5*	G	A1253	229.096	144.150	13.163	1.00	62.70	A16S
ATOM	26430	C4*	G	A1253	229.999	142.962	13.334	1.00	62.70	A16S
ATOM	26431	O4*	G	A1253	231.160	143.130	12.487	1.00	62.70	A16S
ATOM	26432	C1*	G	A1253	232.290	142.529	13.101	1.00	62.70	A16S
ATOM	26433	N9	G	A1253	233.356	143.527	13.202	1.00	70.11	A16S
ATOM	26434	C4	G	A1253	234.613	143.331	13.728	1.00	70.11	A16S
ATOM	26435	N3	G	A1253	235.095	142.169	14.214	1.00	70.11	A16S
ATOM	26436	C2	G	A1253	236.322	142.300	14.674	1.00	70.11	A16S
ATOM	26437	N2	G	A1253	236.958	141.242	15.189	1.00	70.11	A16S
ATOM	26438	N1	G	A1253	237.018	143.479	14.667	1.00	70.11	A16S
ATOM	26439	C6	G	A1253	236.542	144.689	14.177	1.00	70.11	A16S
ATOM	26440	O6	G	A1253	237.250	145.704	14.239	1.00	70.11	A16S
ATOM	26441	C5	G	A1253	235.232	144.560	13.664	1.00	70.11	A16S
ATOM	26442	N7	G	A1253	234.399	145.504	13.080	1.00	70.11	A16S
ATOM	26443	C8	G	A1253	233.301	144.848	12.816	1.00	70.11	A16S
ATOM	26444	C2*	G	A1253	231.848	141.965	14.457	1.00	62.70	A16S
ATOM	26445	O2*	G	A1253	231.650	140.566	14.382	1.00	62.70	A16S
ATOM	26446	C3*	G	A1253	230.567	142.750	14.721	1.00	62.70	A16S
ATOM	26447	O3*	G	A1253	229.666	142.035	15.540	1.00	62.70	A16S
ATOM	26448	P	C	A1254	229.492	142.459	17.078	1.00	72.66	A16S
ATOM	26449	O1P	C	A1254	228.285	141.757	17.601	1.00	68.71	A16S
ATOM	26450	O2P	C	A1254	229.576	143.950	17.149	1.00	68.71	A16S
ATOM	26451	O5*	C	A1254	230.755	141.816	17.803	1.00	72.66	A16S
ATOM	26452	C5*	C	A1254	230.922	140.396	17.820	1.00	72.66	A16S
ATOM	26453	C4*	C	A1254	232.347	140.038	18.141	1.00	72.66	A16S
ATOM	26454	O4*	C	A1254	233.236	140.590	17.140	1.00	72.66	A16S
ATOM	26455	C1*	C	A1254	234.466	140.951	17.747	1.00	72.66	A16S
ATOM	26456	N1	C	A1254	234.714	142.392	17.525	1.00	68.71	A16S
ATOM	26457	C6	C	A1254	233.732	143.217	17.054	1.00	68.71	A16S
ATOM	26458	C2	C	A1254	235.994	142.904	17.797	1.00	68.71	A16S
ATOM	26459	O2	C	A1254	236.867	142.139	18.240	1.00	68.71	A16S
ATOM	26460	N3	C	A1254	236.245	144.214	17.568	1.00	68.71	A16S
ATOM	26461	C4	C	A1254	235.281	145.002	17.092	1.00	68.71	A16S
ATOM	26462	N4	C	A1254	235.577	146.278	16.862	1.00	68.71	A16S
ATOM	26463	C5	C	A1254	233.970	144.514	16.825	1.00	68.71	A16S
ATOM	26464	C2*	C	A1254	234.379	140.576	19.223	1.00	72.66	A16S
ATOM	26465	O2*	C	A1254	234.931	139.288	19.397	1.00	72.66	A16S
ATOM	26466	C3*	C	A1254	232.876	140.592	19.445	1.00	72.66	A16S
ATOM	26467	O3*	C	A1254	232.470	139.802	20.546	1.00	72.66	A16S
ATOM	26468	P	G	A1255	232.056	140.529	21.912	1.00	85.55	A16S
ATOM	26469	O1P	G	A1255	231.271	139.568	22.739	1.00	55.85	A16S
ATOM	26470	O2P	G	A1255	231.458	141.838	21.516	1.00	55.85	A16S
ATOM	26471	O5*	G	A1255	233.454	140.760	22.642	1.00	85.55	A16S
ATOM	26472	C5*	G	A1255	234.253	139.630	23.045	1.00	85.55	A16S
ATOM	26473	C4*	G	A1255	235.641	140.068	23.451	1.00	85.55	A16S
ATOM	26474	O4*	G	A1255	236.328	140.659	22.319	1.00	85.55	A16S
ATOM	26475	C1*	G	A1255	237.226	141.654	22.772	1.00	85.55	A16S
ATOM	26476	N9	G	A1255	236.877	142.917	22.130	1.00	55.85	A16S
ATOM	26477	C4	G	A1255	237.687	144.021	21.990	1.00	55.85	A16S
ATOM	26478	N3	G	A1255	238.954	144.137	22.437	1.00	55.85	A16S
ATOM	26479	C2	G	A1255	239.472	145.324	22.147	1.00	55.85	A16S

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ATOM  26480  N2  G  A1255     240.726 145.616  22.522  1.00 55.85      A16S
ATOM  26481  N1  G  A1255     238.800 146.311  21.468  1.00 55.85      A16S
ATOM  26482  C6  G  A1255     237.496 146.211  20.998  1.00 55.85      A16S
ATOM  26483  O6  G  A1255     236.984 147.159  20.393  1.00 55.85      A16S
ATOM  26484  C5  G  A1255     236.926 144.949  21.309  1.00 55.85      A16S
ATOM  26485  N7  G  A1255     235.663 144.448  21.038  1.00 55.85      A16S
ATOM  26486  C8  G  A1255     235.679 143.244  21.543  1.00 55.85      A16S
ATOM  26487  C2* G  A1255     237.132 141.698  24.297  1.00 85.55      A16S
ATOM  26488  O2* G  A1255     238.150 140.872  24.821  1.00 85.55      A16S
ATOM  26489  C3* G  A1255     235.746 141.112  24.547  1.00 85.55      A16S
ATOM  26490  O3* G  A1255     235.652 140.521  25.842  1.00 85.55      A16S
ATOM  26491  P   A  A1256     234.611 141.115  26.919  1.00135.47      A16S
ATOM  26492  O1P A  A1256     233.303 140.453  26.690  1.00172.09      A16S
ATOM  26493  O2P A  A1256     234.694 142.598  26.879  1.00172.09      A16S
ATOM  26494  O5* A  A1256     235.168 140.618  28.329  1.00135.47      A16S
ATOM  26495  C5* A  A1256     235.749 139.305  28.488  1.00135.47      A16S
ATOM  26496  C4* A  A1256     236.405 139.176  29.850  1.00135.47      A16S
ATOM  26497  O4* A  A1256     237.351 140.265  30.012  1.00135.47      A16S
ATOM  26498  C1* A  A1256     237.348 140.714  31.352  1.00135.47      A16S
ATOM  26499  N9  A  A1256     237.046 142.142  31.348  1.00172.09      A16S
ATOM  26500  C4  A  A1256     237.926 143.142  31.014  1.00172.09      A16S
ATOM  26501  N3  A  A1256     239.205 143.008  30.623  1.00172.09      A16S
ATOM  26502  C2  A  A1256     239.752 144.200  30.393  1.00172.09      A16S
ATOM  26503  N1  A  A1256     239.210 145.415  30.506  1.00172.09      A16S
ATOM  26504  C6  A  A1256     237.923 145.512  30.906  1.00172.09      A16S
ATOM  26505  N6  A  A1256     237.379 146.723  31.036  1.00172.09      A16S
ATOM  26506  C5  A  A1256     237.228 144.322  31.171  1.00172.09      A16S
ATOM  26507  N7  A  A1256     235.926 144.074  31.583  1.00172.09      A16S
ATOM  26508  C8  A  A1256     235.868 142.770  31.671  1.00172.09      A16S
ATOM  26509  C2* A  A1256     236.374 139.851  32.158  1.00135.47      A16S
ATOM  26510  O2* A  A1256     237.117 138.943  32.935  1.00135.47      A16S
ATOM  26511  C3* A  A1256     235.481 139.263  31.060  1.00135.47      A16S
ATOM  26512  O3* A  A1256     234.828 137.986  31.283  1.00135.47      A16S
ATOM  26513  P   U  A1257     235.067 137.137  32.642  1.00200.50      A16S
ATOM  26514  O1P U  A1257     234.157 135.963  32.571  1.00200.96      A16S
ATOM  26515  O2P U  A1257     235.015 138.027  33.833  1.00200.96      A16S
ATOM  26516  O5* U  A1257     236.546 136.567  32.474  1.00200.50      A16S
ATOM  26517  C5* U  A1257     237.074 136.316  31.162  1.00200.50      A16S
ATOM  26518  C4* U  A1257     238.555 136.596  31.125  1.00200.50      A16S
ATOM  26519  O4* U  A1257     238.828 137.882  31.741  1.00200.50      A16S
ATOM  26520  C1* U  A1257     240.057 137.830  32.449  1.00200.50      A16S
ATOM  26521  N1  U  A1257     239.811 138.169  33.863  1.00200.96      A16S
ATOM  26522  C6  U  A1257     238.926 137.441  34.639  1.00200.96      A16S
ATOM  26523  C2  U  A1257     240.505 139.249  34.402  1.00200.96      A16S
ATOM  26524  O2  U  A1257     241.299 139.926  33.758  1.00200.96      A16S
ATOM  26525  N3  U  A1257     240.236 139.508  35.726  1.00200.96      A16S
ATOM  26526  C4  U  A1257     239.367 138.819  36.553  1.00200.96      A16S
ATOM  26527  O4  U  A1257     239.236 139.176  37.727  1.00200.96      A16S
ATOM  26528  C5  U  A1257     238.689 137.722  35.927  1.00200.96      A16S
ATOM  26529  C2* U  A1257     240.667 136.444  32.237  1.00200.50      A16S
ATOM  26530  O2* U  A1257     241.648 136.563  31.231  1.00200.50      A16S
ATOM  26531  C3* U  A1257     239.430 135.616  31.882  1.00200.50      A16S
ATOM  26532  O3* U  A1257     239.605 134.405  31.135  1.00200.50      A16S
ATOM  26533  P   G  A1258     240.441 134.393  29.755  1.00120.70      A16S
ATOM  26534  O1P G  A1258     240.068 133.109  29.105  1.00114.48      A16S
ATOM  26535  O2P G  A1258     241.873 134.688  30.008  1.00114.48      A16S
ATOM  26536  O5* G  A1258     239.814 135.566  28.874  1.00120.70      A16S
ATOM  26537  C5* G  A1258     238.711 135.308  27.980  1.00120.70      A16S
ATOM  26538  C4* G  A1258     238.594 136.405  26.949  1.00120.70      A16S
ATOM  26539  O4* G  A1258     238.321 137.660  27.623  1.00120.70      A16S
ATOM  26540  C1* G  A1258     238.951 138.724  26.932  1.00120.70      A16S
ATOM  26541  N9  G  A1258     239.916 139.351  27.834  1.00114.48      A16S
ATOM  26542  C4  G  A1258     240.365 140.652  27.783  1.00114.48      A16S
ATOM  26543  N3  G  A1258     239.974 141.593  26.898  1.00114.48      A16S
ATOM  26544  C2  G  A1258     240.600 142.741  27.088  1.00114.48      A16S
ATOM  26545  N2  G  A1258     240.338 143.783  26.289  1.00114.48      A16S
ATOM  26546  N1  G  A1258     241.532 142.950  28.074  1.00114.48      A16S
ATOM  26547  C6  G  A1258     241.950 141.995  28.996  1.00114.48      A16S
ATOM  26548  O6  G  A1258     242.806 142.285  29.841  1.00114.48      A16S
ATOM  26549  C5  G  A1258     241.288 140.760  28.801  1.00114.48      A16S
ATOM  26550  N7  G  A1258     241.406 139.562  29.490  1.00114.48      A16S
ATOM  26551  C8  G  A1258     240.574 138.758  28.886  1.00114.48      A16S
ATOM  26552  C2* G  A1258     239.609 138.134  25.681  1.00120.70      A16S
ATOM  26553  O2* G  A1258     238.716 138.258  24.592  1.00120.70      A16S
ATOM  26554  C3* G  A1258     239.824 136.683  26.096  1.00120.70      A16S
ATOM  26555  O3* G  A1258     239.907 135.805  24.973  1.00120.70      A16S
ATOM  26556  P   C  A1259     241.292 135.675  24.155  1.00 72.37      A16S
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ATOM  26557  O1P C   A1259     241.136 134.557  23.194  1.00 97.59      A16S
ATOM  26558  O2P C   A1259     242.421 135.652  25.118  1.00 97.59      A16S
ATOM  26559  O5* C   A1259     241.375 137.035  23.332  1.00 72.37      A16S
ATOM  26560  C5* C   A1259     240.392 137.324  22.335  1.00 72.37      A16S
ATOM  26561  C4* C   A1259     240.671 138.651  21.677  1.00 72.37      A16S
ATOM  26562  O4* C   A1259     240.421 139.736  22.603  1.00 72.37      A16S
ATOM  26563  C1* C   A1259     241.298 140.813  22.318  1.00 72.37      A16S
ATOM  26564  N1   C   A1259     242.077 141.121  23.533  1.00 97.59      A16S
ATOM  26565  C6   C   A1259     242.372 140.143  24.444  1.00 97.59      A16S
ATOM  26566  C2   C   A1259     242.522 142.440  23.739  1.00 97.59      A16S
ATOM  26567  O2   C   A1259     242.240 143.315  22.899  1.00 97.59      A16S
ATOM  26568  N3   C   A1259     243.249 142.722  24.844  1.00 97.59      A16S
ATOM  26569  C4   C   A1259     243.533 141.755  25.723  1.00 97.59      A16S
ATOM  26570  N4   C   A1259     244.254 142.080  26.799  1.00 97.59      A16S
ATOM  26571  C5   C   A1259     243.090 140.413  25.540  1.00 97.59      A16S
ATOM  26572  C2* C   A1259     242.179 140.400  21.137  1.00 72.37      A16S
ATOM  26573  O2* C   A1259     241.656 140.926  19.938  1.00 72.37      A16S
ATOM  26574  C3* C   A1259     242.090 138.880  21.196  1.00 72.37      A16S
ATOM  26575  O3* C   A1259     242.343 138.283  19.933  1.00 72.37      A16S
ATOM  26576  P    C   A1260     243.835 137.836  19.575  1.00107.08      A16S
ATOM  26577  O1P C   A1260     243.927 137.701  18.103  1.00 81.46      A16S
ATOM  26578  O2P C   A1260     244.189 136.682  20.451  1.00 81.46      A16S
ATOM  26579  O5* C   A1260     244.678 139.122  19.994  1.00107.08      A16S
ATOM  26580  C5* C   A1260     246.032 139.025  20.469  1.00107.08      A16S
ATOM  26581  C4* C   A1260     246.383 140.264  21.259  1.00107.08      A16S
ATOM  26582  O4* C   A1260     245.636 140.272  22.503  1.00107.08      A16S
ATOM  26583  C1* C   A1260     246.433 140.827  23.538  1.00107.08      A16S
ATOM  26584  N1   C   A1260     246.680 139.774  24.546  1.00 81.46      A16S
ATOM  26585  C6   C   A1260     246.815 138.466  24.169  1.00 81.46      A16S
ATOM  26586  C2   C   A1260     246.777 140.129  25.902  1.00 81.46      A16S
ATOM  26587  O2   C   A1260     246.674 141.320  26.223  1.00 81.46      A16S
ATOM  26588  N3   C   A1260     246.986 139.164  26.825  1.00 81.46      A16S
ATOM  26589  C4   C   A1260     247.111 137.890  26.443  1.00 81.46      A16S
ATOM  26590  N4   C   A1260     247.319 136.966  27.389  1.00 81.46      A16S
ATOM  26591  C5   C   A1260     247.030 137.503  25.073  1.00 81.46      A16S
ATOM  26592  C2* C   A1260     247.728 141.317  22.897  1.00107.08      A16S
ATOM  26593  O2* C   A1260     247.566 142.672  22.516  1.00107.08      A16S
ATOM  26594  C3* C   A1260     247.832 140.390  21.694  1.00107.08      A16S
ATOM  26595  O3* C   A1260     248.624 140.943  20.660  1.00107.08      A16S
ATOM  26596  P    A   A1261     250.220 140.755  20.687  1.00 84.03      A16S
ATOM  26597  O1P A   A1261     250.584 139.825  19.587  1.00 85.28      A16S
ATOM  26598  O2P A   A1261     250.642 140.427  22.076  1.00 85.28      A16S
ATOM  26599  O5* A   A1261     250.726 142.216  20.293  1.00 84.03      A16S
ATOM  26600  C5* A   A1261     250.066 142.954  19.240  1.00 84.03      A16S
ATOM  26601  C4* A   A1261     250.115 144.442  19.511  1.00 84.03      A16S
ATOM  26602  O4* A   A1261     249.494 144.716  20.792  1.00 84.03      A16S
ATOM  26603  C1* A   A1261     250.176 145.783  21.441  1.00 84.03      A16S
ATOM  26604  N9   A   A1261     250.753 145.264  22.686  1.00 85.28      A16S
ATOM  26605  C4   A   A1261     251.705 145.866  23.477  1.00 85.28      A16S
ATOM  26606  N3   A   A1261     252.292 147.058  23.284  1.00 85.28      A16S
ATOM  26607  C2   A   A1261     253.177 147.301  24.243  1.00 85.28      A16S
ATOM  26608  N1   A   A1261     253.519 146.543  25.291  1.00 85.28      A16S
ATOM  26609  C6   A   A1261     252.911 145.348  25.452  1.00 85.28      A16S
ATOM  26610  N6   A   A1261     253.258 144.581  26.491  1.00 85.28      A16S
ATOM  26611  C5   A   A1261     251.950 144.979  24.510  1.00 85.28      A16S
ATOM  26612  N7   A   A1261     251.160 143.849  24.387  1.00 85.28      A16S
ATOM  26613  C8   A   A1261     250.468 144.065  23.297  1.00 85.28      A16S
ATOM  26614  C2* A   A1261     251.239 146.302  20.471  1.00 84.03      A16S
ATOM  26615  O2* A   A1261     250.705 147.379  19.728  1.00 84.03      A16S
ATOM  26616  C3* A   A1261     251.497 145.069  19.616  1.00 84.03      A16S
ATOM  26617  O3* A   A1261     252.037 145.402  18.347  1.00 84.03      A16S
ATOM  26618  P    C   A1262     253.518 144.910  17.969  1.00122.80      A16S
ATOM  26619  O1P C   A1262     253.929 145.648  16.743  1.00 67.74      A16S
ATOM  26620  O2P C   A1262     253.555 143.422  17.987  1.00 67.74      A16S
ATOM  26621  O5* C   A1262     254.400 145.389  19.203  1.00122.80      A16S
ATOM  26622  C5* C   A1262     255.041 146.676  19.223  1.00122.80      A16S
ATOM  26623  C4* C   A1262     255.961 146.759  20.413  1.00122.80      A16S
ATOM  26624  O4* C   A1262     255.163 146.587  21.613  1.00122.80      A16S
ATOM  26625  C1* C   A1262     255.877 145.806  22.557  1.00122.80      A16S
ATOM  26626  N1   C   A1262     255.119 144.569  22.831  1.00 67.74      A16S
ATOM  26627  C6   C   A1262     254.087 144.177  22.022  1.00 67.74      A16S
ATOM  26628  C2   C   A1262     255.471 143.795  23.953  1.00 67.74      A16S
ATOM  26629  O2   C   A1262     256.440 144.141  24.654  1.00 67.74      A16S
ATOM  26630  N3   C   A1262     254.756 142.687  24.239  1.00 67.74      A16S
ATOM  26631  C4   C   A1262     253.741 142.326  23.454  1.00 67.74      A16S
ATOM  26632  N4   C   A1262     253.056 141.234  23.793  1.00 67.74      A16S
ATOM  26633  C5   C   A1262     253.381 143.073  22.292  1.00 67.74      A16S
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ATOM  26634  C2* C   A1262     257.261 145.523  21.981  1.00122.80      A16S
ATOM  26635  O2* C   A1262     258.170 146.489  22.467  1.00122.80      A16S
ATOM  26636  C3* C   A1262     257.001 145.648  20.488  1.00122.80      A16S
ATOM  26637  O3* C   A1262     258.187 145.947  19.761  1.00122.80      A16S
ATOM  26638  P    C   A1263     259.210 144.761  19.390  1.00 93.45      A16S
ATOM  26639  O1P C   A1263     260.354 145.386  18.675  1.00111.90      A16S
ATOM  26640  O2P C   A1263     258.454 143.662  18.738  1.00111.90      A16S
ATOM  26641  O5* C   A1263     259.719 144.229  20.805  1.00 93.45      A16S
ATOM  26642  C5* C   A1263     260.459 145.090  21.692  1.00 93.45      A16S
ATOM  26643  C4* C   A1263     260.856 144.351  22.947  1.00 93.45      A16S
ATOM  26644  O4* C   A1263     259.694 144.015  23.746  1.00 93.45      A16S
ATOM  26645  C1* C   A1263     259.956 142.828  24.477  1.00 93.45      A16S
ATOM  26646  N1   C   A1263     258.856 141.870  24.276  1.00111.90      A16S
ATOM  26647  C6   C   A1263     258.104 141.880  23.134  1.00111.90      A16S
ATOM  26648  C2   C   A1263     258.599 140.929  25.281  1.00111.90      A16S
ATOM  26649  O2   C   A1263     259.290 140.946  26.310  1.00111.90      A16S
ATOM  26650  N3   C   A1263     257.610 140.028  25.106  1.00111.90      A16S
ATOM  26651  C4   C   A1263     256.888 140.042  23.986  1.00111.90      A16S
ATOM  26652  N4   C   A1263     255.928 139.131  23.853  1.00111.90      A16S
ATOM  26653  C5   C   A1263     257.121 140.991  22.950  1.00111.90      A16S
ATOM  26654  C2* C   A1263     261.319 142.280  24.043  1.00 93.45      A16S
ATOM  26655  O2* C   A1263     262.278 142.540  25.046  1.00 93.45      A16S
ATOM  26656  C3* C   A1263     261.560 143.025  22.731  1.00 93.45      A16S
ATOM  26657  O3* C   A1263     262.937 143.233  22.461  1.00 93.45      A16S
ATOM  26658  P    C   A1264     263.688 142.286  21.408  1.00 66.57      A16S
ATOM  26659  O1P C   A1264     264.991 142.931  21.108  1.00139.68      A16S
ATOM  26660  O2P C   A1264     262.748 141.981  20.293  1.00139.68      A16S
ATOM  26661  O5* C   A1264     263.950 140.950  22.241  1.00 66.57      A16S
ATOM  26662  C5* C   A1264     264.800 140.977  23.393  1.00 66.57      A16S
ATOM  26663  C4* C   A1264     264.493 139.826  24.316  1.00 66.57      A16S
ATOM  26664  O4* C   A1264     263.123 139.922  24.776  1.00 66.57      A16S
ATOM  26665  C1* C   A1264     262.608 138.619  25.014  1.00 66.57      A16S
ATOM  26666  N1   C   A1264     261.412 138.406  24.168  1.00139.68      A16S
ATOM  26667  C6   C   A1264     261.265 139.061  22.975  1.00139.68      A16S
ATOM  26668  C2   C   A1264     260.424 137.503  24.602  1.00139.68      A16S
ATOM  26669  O2   C   A1264     260.568 136.923  25.690  1.00139.68      A16S
ATOM  26670  N3   C   A1264     259.340 137.287  23.825  1.00139.68      A16S
ATOM  26671  C4   C   A1264     259.215 137.925  22.660  1.00139.68      A16S
ATOM  26672  N4   C   A1264     258.133 137.671  21.922  1.00139.68      A16S
ATOM  26673  C5   C   A1264     260.195 138.852  22.198  1.00139.68      A16S
ATOM  26674  C2* C   A1264     263.719 137.620  24.692  1.00 66.57      A16S
ATOM  26675  O2* C   A1264     264.400 137.253  25.875  1.00 66.57      A16S
ATOM  26676  C3* C   A1264     264.589 138.426  23.740  1.00 66.57      A16S
ATOM  26677  O3* C   A1264     265.913 137.926  23.698  1.00 66.57      A16S
ATOM  26678  P    G   A1265     266.333 136.914  22.519  1.00101.39      A16S
ATOM  26679  O1P G   A1265     267.810 136.762  22.554  1.00 90.58      A16S
ATOM  26680  O2P G   A1265     265.669 137.361  21.263  1.00 90.58      A16S
ATOM  26681  O5* G   A1265     265.702 135.528  22.970  1.00101.39      A16S
ATOM  26682  C5* G   A1265     266.221 134.847  24.114  1.00101.39      A16S
ATOM  26683  C4* G   A1265     265.537 133.520  24.286  1.00101.39      A16S
ATOM  26684  O4* G   A1265     264.177 133.718  24.749  1.00101.39      A16S
ATOM  26685  C1* G   A1265     263.334 132.719  24.196  1.00101.39      A16S
ATOM  26686  N9   G   A1265     262.314 133.372  23.379  1.00 90.58      A16S
ATOM  26687  C4   G   A1265     261.085 132.856  23.049  1.00 90.58      A16S
ATOM  26688  N3   G   A1265     260.606 131.653  23.426  1.00 90.58      A16S
ATOM  26689  C2   G   A1265     259.394 131.438  22.959  1.00 90.58      A16S
ATOM  26690  N2   G   A1265     258.779 130.282  23.233  1.00 90.58      A16S
ATOM  26691  N1   G   A1265     258.699 132.340  22.188  1.00 90.58      A16S
ATOM  26692  C6   G   A1265     259.174 133.588  21.790  1.00 90.58      A16S
ATOM  26693  O6   G   A1265     258.467 134.331  21.097  1.00 90.58      A16S
ATOM  26694  C5   G   A1265     260.476 133.824  22.277  1.00 90.58      A16S
ATOM  26695  N7   G   A1265     261.306 134.925  22.117  1.00 90.58      A16S
ATOM  26696  C8   G   A1265     262.384 134.613  22.785  1.00 90.58      A16S
ATOM  26697  C2* G   A1265     264.215 131.780  23.373  1.00101.39      A16S
ATOM  26698  O2* G   A1265     264.591 130.676  24.176  1.00101.39      A16S
ATOM  26699  C3* G   A1265     265.384 132.693  23.025  1.00101.39      A16S
ATOM  26700  O3* G   A1265     266.560 131.991  22.686  1.00101.39      A16S
ATOM  26701  P    G   A1266     266.927 131.794  21.138  1.00120.03      A16S
ATOM  26702  O1P G   A1266     268.235 131.100  21.079  1.00 68.40      A16S
ATOM  26703  O2P G   A1266     266.742 133.090  20.427  1.00 68.40      A16S
ATOM  26704  O5* G   A1266     265.809 130.789  20.618  1.00120.03      A16S
ATOM  26705  C5* G   A1266     265.719 129.458  21.151  1.00120.03      A16S
ATOM  26706  C4* G   A1266     264.510 128.746  20.590  1.00120.03      A16S
ATOM  26707  O4* G   A1266     263.291 129.338  21.111  1.00120.03      A16S
ATOM  26708  C1* G   A1266     262.265 129.236  20.141  1.00120.03      A16S
ATOM  26709  N9   G   A1266     261.809 130.576  19.786  1.00 68.40      A16S
ATOM  26710  C4   G   A1266     260.543 130.903  19.368  1.00 68.40      A16S
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ATOM  26711  N3  G   A1266     259.505 130.048  19.247  1.00 68.40      A16S
ATOM  26712  C2  G   A1266     258.418 130.646  18.791  1.00 68.40      A16S
ATOM  26713  N2  G   A1266     257.305 129.932  18.598  1.00 68.40      A16S
ATOM  26714  N1  G   A1266     258.343 131.985  18.487  1.00 68.40      A16S
ATOM  26715  C6  G   A1266     259.389 132.893  18.612  1.00 68.40      A16S
ATOM  26716  O6  G   A1266     259.205 134.087  18.323  1.00 68.40      A16S
ATOM  26717  C5  G   A1266     260.583 132.254  19.094  1.00 68.40      A16S
ATOM  26718  N7  G   A1266     261.847 132.770  19.352  1.00 68.40      A16S
ATOM  26719  C8  G   A1266     262.538 131.742  19.766  1.00 68.40      A16S
ATOM  26720  C2* G   A1266     262.847 128.517  18.925  1.00120.03      A16S
ATOM  26721  O2* G   A1266     262.567 127.135  19.015  1.00120.03      A16S
ATOM  26722  C3* G   A1266     264.330 128.803  19.083  1.00120.03      A16S
ATOM  26723  O3* G   A1266     265.128 127.856  18.399  1.00120.03      A16S
ATOM  26724  P   C   A1267     265.926 128.310  17.080  1.00 84.75      A16S
ATOM  26725  O1P C   A1267     266.658 127.108  16.611  1.00 67.55      A16S
ATOM  26726  O2P C   A1267     266.675 129.565  17.366  1.00 67.55      A16S
ATOM  26727  O5* C   A1267     264.790 128.682  16.023  1.00 84.75      A16S
ATOM  26728  C5* C   A1267     265.079 129.592  14.943  1.00 84.75      A16S
ATOM  26729  C4* C   A1267     264.174 129.336  13.754  1.00 84.75      A16S
ATOM  26730  O4* C   A1267     264.388 128.003  13.227  1.00 84.75      A16S
ATOM  26731  C1* C   A1267     263.179 127.508  12.687  1.00 84.75      A16S
ATOM  26732  N1  C   A1267     262.860 126.233  13.351  1.00 67.55      A16S
ATOM  26733  C6  C   A1267     263.200 126.021  14.657  1.00 67.55      A16S
ATOM  26734  C2  C   A1267     262.212 125.226  12.618  1.00 67.55      A16S
ATOM  26735  O2  C   A1267     261.902 125.442  11.438  1.00 67.55      A16S
ATOM  26736  N3  C   A1267     261.944 124.041  13.218  1.00 67.55      A16S
ATOM  26737  C4  C   A1267     262.304 123.840  14.489  1.00 67.55      A16S
ATOM  26738  N4  C   A1267     262.052 122.647  15.036  1.00 67.55      A16S
ATOM  26739  C5  C   A1267     262.947 124.851  15.258  1.00 67.55      A16S
ATOM  26740  C2* C   A1267     262.112 128.592  12.851  1.00 84.75      A16S
ATOM  26741  O2* C   A1267     262.046 129.330  11.648  1.00 84.75      A16S
ATOM  26742  C3* C   A1267     262.679 129.430  13.993  1.00 84.75      A16S
ATOM  26743  O3* C   A1267     262.251 130.790  13.909  1.00 84.75      A16S
ATOM  26744  P   A   A1268     261.440 131.449  15.132  1.00 89.77      A16S
ATOM  26745  O1P A   A1268     261.321 132.906  14.852  1.00 62.72      A16S
ATOM  26746  O2P A   A1268     262.085 130.993  16.398  1.00 62.72      A16S
ATOM  26747  O5* A   A1268     259.989 130.785  15.042  1.00 89.77      A16S
ATOM  26748  C5* A   A1268     259.172 130.940  13.857  1.00 89.77      A16S
ATOM  26749  C4* A   A1268     258.171 129.807  13.744  1.00 89.77      A16S
ATOM  26750  O4* A   A1268     258.871 128.541  13.737  1.00 89.77      A16S
ATOM  26751  C1* A   A1268     258.098 127.564  14.402  1.00 89.77      A16S
ATOM  26752  N9  A   A1268     258.905 127.025  15.490  1.00 62.72      A16S
ATOM  26753  C4  A   A1268     258.999 125.704  15.850  1.00 62.72      A16S
ATOM  26754  N3  A   A1268     258.352 124.661  15.304  1.00 62.72      A16S
ATOM  26755  C2  A   A1268     258.701 123.524  15.906  1.00 62.72      A16S
ATOM  26756  N1  A   A1268     259.565 123.325  16.911  1.00 62.72      A16S
ATOM  26757  C6  A   A1268     260.205 124.395  17.430  1.00 62.72      A16S
ATOM  26758  N6  A   A1268     261.080 124.197  18.414  1.00 62.72      A16S
ATOM  26759  C5  A   A1268     259.911 125.660  16.888  1.00 62.72      A16S
ATOM  26760  N7  A   A1268     260.369 126.934  17.190  1.00 62.72      A16S
ATOM  26761  C8  A   A1268     259.740 127.706  16.339  1.00 62.72      A16S
ATOM  26762  C2* A   A1268     256.788 128.210  14.848  1.00 89.77      A16S
ATOM  26763  O2* A   A1268     255.793 127.913  13.892  1.00 89.77      A16S
ATOM  26764  C3* A   A1268     257.157 129.688  14.868  1.00 89.77      A16S
ATOM  26765  O3* A   A1268     256.029 130.497  14.574  1.00 89.77      A16S
ATOM  26766  P   A   A1269     255.122 131.064  15.770  1.00 64.45      A16S
ATOM  26767  O1P A   A1269     254.230 132.095  15.167  1.00 68.13      A16S
ATOM  26768  O2P A   A1269     256.036 131.449  16.876  1.00 68.13      A16S
ATOM  26769  O5* A   A1269     254.262 129.804  16.251  1.00 64.45      A16S
ATOM  26770  C5* A   A1269     253.169 129.301  15.452  1.00 64.45      A16S
ATOM  26771  C4* A   A1269     252.684 127.968  15.987  1.00 64.45      A16S
ATOM  26772  O4* A   A1269     253.777 127.021  15.972  1.00 64.45      A16S
ATOM  26773  C1* A   A1269     253.634 126.114  17.047  1.00 64.45      A16S
ATOM  26774  N9  A   A1269     254.855 126.138  17.845  1.00 68.13      A16S
ATOM  26775  C4  A   A1269     255.555 125.039  18.273  1.00 68.13      A16S
ATOM  26776  N3  A   A1269     255.270 123.750  18.031  1.00 68.13      A16S
ATOM  26777  C2  A   A1269     256.173 122.955  18.603  1.00 68.13      A16S
ATOM  26778  N1  A   A1269     257.242 123.278  19.343  1.00 68.13      A16S
ATOM  26779  C6  A   A1269     257.490 124.585  19.576  1.00 68.13      A16S
ATOM  26780  N6  A   A1269     258.540 124.908  20.333  1.00 68.13      A16S
ATOM  26781  C5  A   A1269     256.615 125.529  19.008  1.00 68.13      A16S
ATOM  26782  N7  A   A1269     256.592 126.915  19.034  1.00 68.13      A16S
ATOM  26783  C8  A   A1269     255.532 127.226  18.330  1.00 68.13      A16S
ATOM  26784  C2* A   A1269     252.389 126.504  17.846  1.00 64.45      A16S
ATOM  26785  O2* A   A1269     251.311 125.651  17.525  1.00 64.45      A16S
ATOM  26786  C3* A   A1269     252.176 127.951  17.420  1.00 64.45      A16S
ATOM  26787  O3* A   A1269     250.799 128.297  17.501  1.00 64.45      A16S
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ATOM  26788  P    C  A1270     250.361 129.644  18.257  1.00 78.13      A16S
ATOM  26789  O1P  C  A1270     248.880 129.634  18.344  1.00 60.24      A16S
ATOM  26790  O2P  C  A1270     251.048 130.768  17.564  1.00 60.24      A16S
ATOM  26791  O5*  C  A1270     250.954 129.489  19.733  1.00 78.13      A16S
ATOM  26792  C5*  C  A1270     250.688 128.302  20.517  1.00 78.13      A16S
ATOM  26793  C4*  C  A1270     251.873 127.955  21.398  1.00 78.13      A16S
ATOM  26794  O4*  C  A1270     253.082 128.031  20.601  1.00 78.13      A16S
ATOM  26795  C1*  C  A1270     254.165 128.469  21.402  1.00 78.13      A16S
ATOM  26796  N1   C  A1270     254.578 129.810  20.946  1.00 60.24      A16S
ATOM  26797  C6   C  A1270     253.737 130.589  20.197  1.00 60.24      A16S
ATOM  26798  C2   C  A1270     255.849 130.292  21.315  1.00 60.24      A16S
ATOM  26799  O2   C  A1270     256.605 129.561  21.984  1.00 60.24      A16S
ATOM  26800  N3   C  A1270     256.217 131.541  20.931  1.00 60.24      A16S
ATOM  26801  C4   C  A1270     255.381 132.291  20.206  1.00 60.24      A16S
ATOM  26802  N4   C  A1270     255.782 133.513  19.849  1.00 60.24      A16S
ATOM  26803  C5   C  A1270     254.092 131.820  19.812  1.00 60.24      A16S
ATOM  26804  C2*  C  A1270     253.653 128.553  22.833  1.00 78.13      A16S
ATOM  26805  O2*  C  A1270     253.879 127.312  23.477  1.00 78.13      A16S
ATOM  26806  C3*  C  A1270     252.179 128.841  22.601  1.00 78.13      A16S
ATOM  26807  O3*  C  A1270     251.423 128.510  23.757  1.00 78.13      A16S
ATOM  26808  P    G  A1271     251.309 129.569  24.962  1.00 98.40      A16S
ATOM  26809  O1P  G  A1271     250.458 128.950  26.009  1.00 74.47      A16S
ATOM  26810  O2P  G  A1271     250.930 130.886  24.384  1.00 74.47      A16S
ATOM  26811  O5*  G  A1271     252.789 129.665  25.546  1.00 98.40      A16S
ATOM  26812  C5*  G  A1271     253.404 128.528  26.192  1.00 98.40      A16S
ATOM  26813  C4*  G  A1271     254.774 128.889  26.733  1.00 98.40      A16S
ATOM  26814  O4*  G  A1271     255.650 129.276  25.642  1.00 98.40      A16S
ATOM  26815  C1*  G  A1271     256.523 130.308  26.070  1.00 98.40      A16S
ATOM  26816  N9   G  A1271     256.233 131.505  25.288  1.00 74.47      A16S
ATOM  26817  C4   G  A1271     257.054 132.597  25.122  1.00 74.47      A16S
ATOM  26818  N3   G  A1271     258.269 132.774  25.689  1.00 74.47      A16S
ATOM  26819  C2   G  A1271     258.817 133.932  25.337  1.00 74.47      A16S
ATOM  26820  N2   G  A1271     260.015 134.289  25.834  1.00 74.47      A16S
ATOM  26821  N1   G  A1271     258.229 134.830  24.478  1.00 74.47      A16S
ATOM  26822  C6   G  A1271     256.985 134.665  23.875  1.00 74.47      A16S
ATOM  26823  O6   G  A1271     256.554 135.533  23.101  1.00 74.47      A16S
ATOM  26824  C5   G  A1271     256.373 133.439  24.267  1.00 74.47      A16S
ATOM  26825  N7   G  A1271     255.138 132.902  23.928  1.00 74.47      A16S
ATOM  26826  C8   G  A1271     255.098 131.760  24.557  1.00 74.47      A16S
ATOM  26827  C2*  G  A1271     256.276 130.528  27.556  1.00 98.40      A16S
ATOM  26828  O2*  G  A1271     257.176 129.715  28.284  1.00 98.40      A16S
ATOM  26829  C3*  G  A1271     254.834 130.067  27.689  1.00 98.40      A16S
ATOM  26830  O3*  G  A1271     254.518 129.702  29.016  1.00 98.40      A16S
ATOM  26831  P    G  A1272     253.820 130.782  29.977  1.00119.51      A16S
ATOM  26832  O1P  G  A1272     253.355 130.019  31.171  1.00 69.95      A16S
ATOM  26833  O2P  G  A1272     252.839 131.576  29.177  1.00 69.95      A16S
ATOM  26834  O5*  G  A1272     255.004 131.781  30.364  1.00119.51      A16S
ATOM  26835  C5*  G  A1272     256.087 131.378  31.231  1.00119.51      A16S
ATOM  26836  C4*  G  A1272     257.121 132.482  31.323  1.00119.51      A16S
ATOM  26837  O4*  G  A1272     257.754 132.658  30.027  1.00119.51      A16S
ATOM  26838  C1*  G  A1272     258.020 134.035  29.802  1.00119.51      A16S
ATOM  26839  N9   G  A1272     257.228 134.471  28.657  1.00 69.95      A16S
ATOM  26840  C4   G  A1272     257.362 135.655  27.961  1.00 69.95      A16S
ATOM  26841  N3   G  A1272     258.283 136.618  28.187  1.00 69.95      A16S
ATOM  26842  C2   G  A1272     258.130 137.648  27.369  1.00 69.95      A16S
ATOM  26843  N2   G  A1272     258.949 138.697  27.451  1.00 69.95      A16S
ATOM  26844  N1   G  A1272     257.161 137.724  26.413  1.00 69.95      A16S
ATOM  26845  C6   G  A1272     256.207 136.747  26.164  1.00 69.95      A16S
ATOM  26846  O6   G  A1272     255.370 136.918  25.275  1.00 69.95      A16S
ATOM  26847  C5   G  A1272     256.354 135.641  27.026  1.00 69.95      A16S
ATOM  26848  N7   G  A1272     255.618 134.467  27.110  1.00 69.95      A16S
ATOM  26849  C8   G  A1272     256.176 133.803  28.083  1.00 69.95      A16S
ATOM  26850  C2*  G  A1272     257.609 134.801  31.060  1.00119.51      A16S
ATOM  26851  O2*  G  A1272     258.738 135.029  31.878  1.00119.51      A16S
ATOM  26852  C3*  G  A1272     256.578 133.860  31.673  1.00119.51      A16S
ATOM  26853  O3*  G  A1272     256.424 134.059  33.071  1.00119.51      A16S
ATOM  26854  P    G  A1273     255.331 135.111  33.604  1.00100.27      A16S
ATOM  26855  O1P  G  A1273     255.434 135.124  35.085  1.00 85.97      A16S
ATOM  26856  O2P  G  A1273     254.033 134.792  32.971  1.00 85.97      A16S
ATOM  26857  O5*  G  A1273     255.836 136.517  33.039  1.00100.27      A16S
ATOM  26858  C5*  G  A1273     257.051 137.104  33.541  1.00100.27      A16S
ATOM  26859  C4*  G  A1273     257.425 138.351  32.768  1.00100.27      A16S
ATOM  26860  O4*  G  A1273     257.627 138.035  31.367  1.00100.27      A16S
ATOM  26861  C1*  G  A1273     257.362 139.187  30.583  1.00100.27      A16S
ATOM  26862  N9   G  A1273     256.299 138.898  29.627  1.00 85.97      A16S
ATOM  26863  C4   G  A1273     255.908 139.718  28.597  1.00 85.97      A16S
ATOM  26864  N3   G  A1273     256.453 140.912  28.288  1.00 85.97      A16S
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ATOM  26865  C2  G   A1273     255.845 141.485  27.267  1.00 85.97      A16S
ATOM  26866  N2  G   A1273     256.249 142.690  26.843  1.00 85.97      A16S
ATOM  26867  N1  G   A1273     254.791 140.921  26.590  1.00 85.97      A16S
ATOM  26868  C6  G   A1273     254.212 139.691  26.891  1.00 85.97      A16S
ATOM  26869  O6  G   A1273     253.250 139.279  26.222  1.00 85.97      A16S
ATOM  26870  C5  G   A1273     254.855 139.071  27.995  1.00 85.97      A16S
ATOM  26871  N7  G   A1273     254.598 137.861  28.622  1.00 85.97      A16S
ATOM  26872  C8  G   A1273     255.481 137.799  29.581  1.00 85.97      A16S
ATOM  26873  C2* G   A1273     256.920 140.303  31.527  1.00100.27      A16S
ATOM  26874  O2* G   A1273     258.022 141.148  31.793  1.00100.27      A16S
ATOM  26875  C3* G   A1273     256.447 139.515  32.742  1.00100.27      A16S
ATOM  26876  O3* G   A1273     256.499 140.321  33.911  1.00100.27      A16S
ATOM  26877  P   G   A1274     255.196 141.155  34.360  1.00 95.19      A16S
ATOM  26878  O1P G   A1274     255.615 142.068  35.457  1.00116.35      A16S
ATOM  26879  O2P G   A1274     254.075 140.203  34.586  1.00116.35      A16S
ATOM  26880  O5* G   A1274     254.844 142.054  33.094  1.00 95.19      A16S
ATOM  26881  C5* G   A1274     255.695 143.142  32.707  1.00 95.19      A16S
ATOM  26882  C4* G   A1274     255.141 143.822  31.484  1.00 95.19      A16S
ATOM  26883  O4* G   A1274     255.138 142.885  30.375  1.00 95.19      A16S
ATOM  26884  C1* G   A1274     253.971 143.073  29.586  1.00 95.19      A16S
ATOM  26885  N9  G   A1274     253.168 141.853  29.677  1.00116.35      A16S
ATOM  26886  C4  G   A1274     252.229 141.399  28.773  1.00116.35      A16S
ATOM  26887  N3  G   A1274     251.885 141.996  27.612  1.00116.35      A16S
ATOM  26888  C2  G   A1274     250.949 141.316  26.970  1.00116.35      A16S
ATOM  26889  N2  G   A1274     250.485 141.759  25.800  1.00116.35      A16S
ATOM  26890  N1  G   A1274     250.395 140.148  27.428  1.00116.35      A16S
ATOM  26891  C6  G   A1274     250.732 139.516  28.616  1.00116.35      A16S
ATOM  26892  O6  G   A1274     250.167 138.464  28.939  1.00116.35      A16S
ATOM  26893  C5  G   A1274     251.736 140.229  29.317  1.00116.35      A16S
ATOM  26894  N7  G   A1274     252.354 139.947  30.527  1.00116.35      A16S
ATOM  26895  C8  G   A1274     253.193 140.932  30.699  1.00116.35      A16S
ATOM  26896  C2* G   A1274     253.236 144.291  30.151  1.00 95.19      A16S
ATOM  26897  O2* G   A1274     253.654 145.463  29.478  1.00 95.19      A16S
ATOM  26898  C3* G   A1274     253.698 144.278  31.601  1.00 95.19      A16S
ATOM  26899  O3* G   A1274     253.583 145.549  32.215  1.00 95.19      A16S
ATOM  26900  P   A   A1275     252.150 146.046  32.747  1.00 83.15      A16S
ATOM  26901  O1P A   A1275     252.418 146.802  33.995  1.00121.82      A16S
ATOM  26902  O2P A   A1275     251.204 144.896  32.778  1.00121.82      A16S
ATOM  26903  O5* A   A1275     251.673 147.080  31.635  1.00 83.15      A16S
ATOM  26904  C5* A   A1275     252.460 148.241  31.367  1.00 83.15      A16S
ATOM  26905  C4* A   A1275     252.050 148.890  30.071  1.00 83.15      A16S
ATOM  26906  O4* A   A1275     252.345 148.029  28.940  1.00 83.15      A16S
ATOM  26907  C1* A   A1275     251.439 148.312  27.884  1.00 83.15      A16S
ATOM  26908  N9  A   A1275     250.707 147.094  27.528  1.00121.82      A16S
ATOM  26909  C4  A   A1275     249.849 146.980  26.461  1.00121.82      A16S
ATOM  26910  N3  A   A1275     249.534 147.932  25.564  1.00121.82      A16S
ATOM  26911  C2  A   A1275     248.667 147.467  24.672  1.00121.82      A16S
ATOM  26912  N1  A   A1275     248.122 146.252  24.578  1.00121.82      A16S
ATOM  26913  C6  A   A1275     248.461 145.318  25.495  1.00121.82      A16S
ATOM  26914  N6  A   A1275     247.921 144.101  25.399  1.00121.82      A16S
ATOM  26915  C5  A   A1275     249.370 145.687  26.499  1.00121.82      A16S
ATOM  26916  N7  A   A1275     249.914 144.992  27.570  1.00121.82      A16S
ATOM  26917  C8  A   A1275     250.700 145.868  28.146  1.00121.82      A16S
ATOM  26918  C2* A   A1275     250.488 149.401  28.374  1.00 83.15      A16S
ATOM  26919  O2* A   A1275     250.958 150.658  27.929  1.00 83.15      A16S
ATOM  26920  C3* A   A1275     250.585 149.231  29.885  1.00 83.15      A16S
ATOM  26921  O3* A   A1275     250.200 150.400  30.578  1.00 83.15      A16S
ATOM  26922  P   G   A1276     248.716 150.494  31.181  1.00 92.54      A16S
ATOM  26923  O1P G   A1276     248.645 151.732  31.995  1.00104.36      A16S
ATOM  26924  O2P G   A1276     248.385 149.183  31.807  1.00104.36      A16S
ATOM  26925  O5* G   A1276     247.800 150.703  29.895  1.00 92.54      A16S
ATOM  26926  C5* G   A1276     248.038 151.800  28.984  1.00 92.54      A16S
ATOM  26927  C4* G   A1276     247.204 151.633  27.733  1.00 92.54      A16S
ATOM  26928  O4* G   A1276     247.641 150.449  27.014  1.00 92.54      A16S
ATOM  26929  C1* G   A1276     246.519 149.740  26.518  1.00 92.54      A16S
ATOM  26930  N9  G   A1276     246.470 148.457  27.217  1.00104.36      A16S
ATOM  26931  C4  G   A1276     245.888 147.293  26.777  1.00104.36      A16S
ATOM  26932  N3  G   A1276     245.232 147.125  25.610  1.00104.36      A16S
ATOM  26933  C2  G   A1276     244.794 145.884  25.465  1.00104.36      A16S
ATOM  26934  N2  G   A1276     244.118 145.540  24.359  1.00104.36      A16S
ATOM  26935  N1  G   A1276     244.988 144.888  26.392  1.00104.36      A16S
ATOM  26936  C6  G   A1276     245.662 145.039  27.601  1.00104.36      A16S
ATOM  26937  O6  G   A1276     245.789 144.071  28.367  1.00104.36      A16S
ATOM  26938  C5  G   A1276     246.132 146.364  27.770  1.00104.36      A16S
ATOM  26939  N7  G   A1276     246.838 146.934  28.818  1.00104.36      A16S
ATOM  26940  C8  G   A1276     247.013 148.173  28.450  1.00104.36      A16S
ATOM  26941  C2* G   A1276     245.291 150.617  26.761  1.00 92.54      A16S
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ATOM  26942  O2* G   A1276     245.096 151.458  25.640  1.00 92.54      A16S
ATOM  26943  C3* G   A1276     245.724 151.409  27.987  1.00 92.54      A16S
ATOM  26944  O3* G   A1276     245.031 152.642  28.145  1.00 92.54      A16S
ATOM  26945  P    C   A1277     243.627 152.666  28.930  1.00130.62      A16S
ATOM  26946  O1P C   A1277     243.204 154.082  29.064  1.00 75.59      A16S
ATOM  26947  O2P C   A1277     243.707 151.805  30.140  1.00 75.59      A16S
ATOM  26948  O5* C   A1277     242.639 151.961  27.906  1.00130.62      A16S
ATOM  26949  C5* C   A1277     242.340 152.564  26.635  1.00130.62      A16S
ATOM  26950  C4* C   A1277     241.282 151.760  25.932  1.00130.62      A16S
ATOM  26951  O4* C   A1277     241.850 150.504  25.478  1.00130.62      A16S
ATOM  26952  C1* C   A1277     240.899 149.467  25.635  1.00130.62      A16S
ATOM  26953  N1   C   A1277     241.461 148.442  26.540  1.00 75.59      A16S
ATOM  26954  C6   C   A1277     242.211 148.799  27.626  1.00 75.59      A16S
ATOM  26955  C2   C   A1277     241.204 147.084  26.277  1.00 75.59      A16S
ATOM  26956  O2   C   A1277     240.543 146.774  25.269  1.00 75.59      A16S
ATOM  26957  N3   C   A1277     241.686 146.144  27.124  1.00 75.59      A16S
ATOM  26958  C4   C   A1277     242.400 146.509  28.189  1.00 75.59      A16S
ATOM  26959  N4   C   A1277     242.837 145.547  29.007  1.00 75.59      A16S
ATOM  26960  C5   C   A1277     242.695 147.876  28.467  1.00 75.59      A16S
ATOM  26961  C2* C   A1277     239.606 150.099  26.160  1.00130.62      A16S
ATOM  26962  O2* C   A1277     238.776 150.432  25.074  1.00130.62      A16S
ATOM  26963  C3* C   A1277     240.125 151.358  26.832  1.00130.62      A16S
ATOM  26964  O3* C   A1277     239.146 152.389  26.924  1.00130.62      A16S
ATOM  26965  P    U   A1278     238.424 152.679  28.336  1.00145.54      A16S
ATOM  26966  O1P U   A1278     238.067 154.122  28.351  1.00199.85      A16S
ATOM  26967  O2P U   A1278     239.249 152.116  29.437  1.00199.85      A16S
ATOM  26968  O5* U   A1278     237.074 151.845  28.247  1.00145.54      A16S
ATOM  26969  C5* U   A1278     236.270 151.912  27.061  1.00145.54      A16S
ATOM  26970  C4* U   A1278     235.532 150.614  26.842  1.00145.54      A16S
ATOM  26971  O4* U   A1278     236.454 149.508  26.940  1.00145.54      A16S
ATOM  26972  C1* U   A1278     236.170 148.735  28.085  1.00145.54      A16S
ATOM  26973  N1   U   A1278     237.418 148.687  28.872  1.00199.85      A16S
ATOM  26974  C6   U   A1278     237.625 149.509  29.965  1.00199.85      A16S
ATOM  26975  C2   U   A1278     238.404 147.794  28.467  1.00199.85      A16S
ATOM  26976  O2   U   A1278     238.269 147.033  27.522  1.00199.85      A16S
ATOM  26977  N3   U   A1278     239.558 147.825  29.212  1.00199.85      A16S
ATOM  26978  C4   U   A1278     239.826 148.626  30.300  1.00199.85      A16S
ATOM  26979  O4   U   A1278     240.920 148.543  30.857  1.00199.85      A16S
ATOM  26980  C5   U   A1278     238.762 149.506  30.669  1.00199.85      A16S
ATOM  26981  C2* U   A1278     234.973 149.363  28.814  1.00145.54      A16S
ATOM  26982  O2* U   A1278     234.066 148.375  29.269  1.00145.54      A16S
ATOM  26983  C3* U   A1278     234.368 150.307  27.768  1.00145.54      A16S
ATOM  26984  O3* U   A1278     233.333 149.714  26.983  1.00145.54      A16S
ATOM  26985  P    A   A1279     232.472 150.636  25.966  1.00103.17      A16S
ATOM  26986  O1P A   A1279     231.325 149.810  25.500  1.00 88.04      A16S
ATOM  26987  O2P A   A1279     232.206 151.958  26.596  1.00 88.04      A16S
ATOM  26988  O5* A   A1279     233.448 150.874  24.720  1.00103.17      A16S
ATOM  26989  C5* A   A1279     234.213 152.099  24.580  1.00103.17      A16S
ATOM  26990  C4* A   A1279     235.395 151.885  23.656  1.00103.17      A16S
ATOM  26991  O4* A   A1279     236.258 150.879  24.219  1.00103.17      A16S
ATOM  26992  C1* A   A1279     236.874 150.148  23.184  1.00103.17      A16S
ATOM  26993  N9   A   A1279     236.846 148.729  23.546  1.00 88.04      A16S
ATOM  26994  C4   A   A1279     235.763 147.894  23.586  1.00 88.04      A16S
ATOM  26995  N3   A   A1279     234.503 148.185  23.232  1.00 88.04      A16S
ATOM  26996  C2   A   A1279     233.712 147.142  23.449  1.00 88.04      A16S
ATOM  26997  N1   A   A1279     234.017 145.933  23.949  1.00 88.04      A16S
ATOM  26998  C6   A   A1279     235.300 145.679  24.297  1.00 88.04      A16S
ATOM  26999  N6   A   A1279     235.607 144.485  24.815  1.00 88.04      A16S
ATOM  27000  C5   A   A1279     236.232 146.695  24.101  1.00 88.04      A16S
ATOM  27001  N7   A   A1279     237.595 146.757  24.334  1.00 88.04      A16S
ATOM  27002  C8   A   A1279     237.914 147.974  23.980  1.00 88.04      A16S
ATOM  27003  C2* A   A1279     236.299 150.607  21.842  1.00103.17      A16S
ATOM  27004  O2* A   A1279     237.249 151.443  21.213  1.00103.17      A16S
ATOM  27005  C3* A   A1279     235.053 151.384  22.263  1.00103.17      A16S
ATOM  27006  O3* A   A1279     234.924 152.510  21.408  1.00103.17      A16S
ATOM  27007  P    A   A1280     233.540 153.323  21.340  1.00 93.11      A16S
ATOM  27008  O1P A   A1280     233.108 153.658  22.723  1.00 85.10      A16S
ATOM  27009  O2P A   A1280     232.608 152.591  20.433  1.00 85.10      A16S
ATOM  27010  O5* A   A1280     233.965 154.692  20.648  1.00 93.11      A16S
ATOM  27011  C5* A   A1280     233.461 155.066  19.362  1.00 93.11      A16S
ATOM  27012  C4* A   A1280     234.168 154.290  18.282  1.00 93.11      A16S
ATOM  27013  O4* A   A1280     233.725 154.817  17.012  1.00 93.11      A16S
ATOM  27014  C1* A   A1280     234.811 155.377  16.306  1.00 93.11      A16S
ATOM  27015  N9   A   A1280     234.347 156.665  15.797  1.00 85.10      A16S
ATOM  27016  C4   A   A1280     234.154 157.017  14.485  1.00 85.10      A16S
ATOM  27017  N3   A   A1280     234.385 156.268  13.395  1.00 85.10      A16S
ATOM  27018  C2   A   A1280     234.044 156.931  12.291  1.00 85.10      A16S
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ATOM  27019  N1   A   A1280     233.542 158.166  12.166  1.00 85.10      A16S
ATOM  27020  C6   A   A1280     233.334 158.895  13.282  1.00 85.10      A16S
ATOM  27021  N6   A   A1280     232.846 160.131  13.160  1.00 85.10      A16S
ATOM  27022  C5   A   A1280     233.648 158.304  14.513  1.00 85.10      A16S
ATOM  27023  N7   A   A1280     233.547 158.763  15.816  1.00 85.10      A16S
ATOM  27024  C8   A   A1280     233.978 157.759  16.535  1.00 85.10      A16S
ATOM  27025  C2*  A   A1280     235.979 155.498  17.285  1.00 93.11      A16S
ATOM  27026  O2*  A   A1280     237.220 155.347  16.630  1.00 93.11      A16S
ATOM  27027  C3*  A   A1280     235.688 154.379  18.283  1.00 93.11      A16S
ATOM  27028  O3*  A   A1280     236.218 153.126  17.847  1.00 93.11      A16S
ATOM  27029  P    U   A1281     237.745 152.741  18.168  1.00147.92      A16S
ATOM  27030  O1P  U   A1281     238.540 153.055  16.958  1.00 93.97      A16S
ATOM  27031  O2P  U   A1281     237.828 151.385  18.765  1.00 93.97      A16S
ATOM  27032  O5*  U   A1281     238.156 153.776  19.294  1.00147.92      A16S
ATOM  27033  C5*  U   A1281     239.391 153.634  19.980  1.00147.92      A16S
ATOM  27034  C4*  U   A1281     240.334 154.726  19.563  1.00147.92      A16S
ATOM  27035  O4*  U   A1281     239.699 156.015  19.721  1.00147.92      A16S
ATOM  27036  C1*  U   A1281     240.517 156.851  20.501  1.00147.92      A16S
ATOM  27037  N1   U   A1281     239.849 156.947  21.809  1.00 93.97      A16S
ATOM  27038  C6   U   A1281     239.939 155.927  22.744  1.00 93.97      A16S
ATOM  27039  C2   U   A1281     239.076 158.077  22.060  1.00 93.97      A16S
ATOM  27040  O2   U   A1281     239.003 159.028  21.290  1.00 93.97      A16S
ATOM  27041  N3   U   A1281     238.389 158.048  23.249  1.00 93.97      A16S
ATOM  27042  C4   U   A1281     238.405 157.042  24.198  1.00 93.97      A16S
ATOM  27043  O4   U   A1281     237.647 157.115  25.162  1.00 93.97      A16S
ATOM  27044  C5   U   A1281     239.261 155.938  23.892  1.00 93.97      A16S
ATOM  27045  C2*  U   A1281     241.928 156.243  20.463  1.00147.92      A16S
ATOM  27046  O2*  U   A1281     242.604 156.725  19.317  1.00147.92      A16S
ATOM  27047  C3*  U   A1281     241.614 154.751  20.371  1.00147.92      A16S
ATOM  27048  O3*  U   A1281     242.527 153.920  19.648  1.00147.92      A16S
ATOM  27049  P    C   A1282     244.114 154.138  19.753  1.00 81.70      A16S
ATOM  27050  O1P  C   A1282     244.413 155.115  20.831  1.00122.45      A16S
ATOM  27051  O2P  C   A1282     244.609 154.394  18.373  1.00122.45      A16S
ATOM  27052  O5*  C   A1282     244.631 152.715  20.239  1.00 81.70      A16S
ATOM  27053  C5*  C   A1282     245.619 152.613  21.263  1.00 81.70      A16S
ATOM  27054  C4*  C   A1282     245.576 151.251  21.893  1.00 81.70      A16S
ATOM  27055  O4*  C   A1282     244.430 151.133  22.772  1.00 81.70      A16S
ATOM  27056  C1*  C   A1282     243.952 149.796  22.751  1.00 81.70      A16S
ATOM  27057  N1   C   A1282     242.572 149.793  22.219  1.00122.45      A16S
ATOM  27058  C6   C   A1282     242.010 150.927  21.697  1.00122.45      A16S
ATOM  27059  C2   C   A1282     241.849 148.587  22.228  1.00122.45      A16S
ATOM  27060  O2   C   A1282     242.361 147.582  22.746  1.00122.45      A16S
ATOM  27061  N3   C   A1282     240.615 148.552  21.675  1.00122.45      A16S
ATOM  27062  C4   C   A1282     240.093 149.658  21.137  1.00122.45      A16S
ATOM  27063  N4   C   A1282     238.890 149.567  20.569  1.00122.45      A16S
ATOM  27064  C5   C   A1282     240.786 150.904  21.150  1.00122.45      A16S
ATOM  27065  C2*  C   A1282     244.881 148.993  21.837  1.00 81.70      A16S
ATOM  27066  O2*  C   A1282     245.871 148.342  22.609  1.00 81.70      A16S
ATOM  27067  C3*  C   A1282     245.430 150.088  20.932  1.00 81.70      A16S
ATOM  27068  O3*  C   A1282     246.648 149.757  20.283  1.00 81.70      A16S
ATOM  27069  P    G   A1283     246.613 149.219  18.767  1.00101.49      A16S
ATOM  27070  O1P  G   A1283     248.004 149.204  18.248  1.00 72.46      A16S
ATOM  27071  O2P  G   A1283     245.573 149.980  18.032  1.00 72.46      A16S
ATOM  27072  O5*  G   A1283     246.143 147.708  18.944  1.00101.49      A16S
ATOM  27073  C5*  G   A1283     246.826 146.855  19.878  1.00101.49      A16S
ATOM  27074  C4*  G   A1283     246.053 145.581  20.111  1.00101.49      A16S
ATOM  27075  O4*  G   A1283     244.810 145.855  20.813  1.00101.49      A16S
ATOM  27076  C1*  G   A1283     243.823 144.913  20.416  1.00101.49      A16S
ATOM  27077  N9   G   A1283     242.708 145.622  19.785  1.00 72.46      A16S
ATOM  27078  C4   G   A1283     241.481 145.087  19.484  1.00 72.46      A16S
ATOM  27079  N3   G   A1283     241.083 143.833  19.756  1.00 72.46      A16S
ATOM  27080  C2   G   A1283     239.862 143.601  19.327  1.00 72.46      A16S
ATOM  27081  N2   G   A1283     239.312 142.398  19.522  1.00 72.46      A16S
ATOM  27082  N1   G   A1283     239.088 144.527  18.677  1.00 72.46      A16S
ATOM  27083  C6   G   A1283     239.475 145.827  18.386  1.00 72.46      A16S
ATOM  27084  O6   G   A1283     238.697 146.584  17.795  1.00 72.46      A16S
ATOM  27085  C5   G   A1283     240.787 146.091  18.845  1.00 72.46      A16S
ATOM  27086  N7   G   A1283     241.551 147.244  18.765  1.00 72.46      A16S
ATOM  27087  C8   G   A1283     242.679 146.924  19.341  1.00 72.46      A16S
ATOM  27088  C2*  G   A1283     244.488 143.950  19.431  1.00101.49      A16S
ATOM  27089  O2*  G   A1283     244.976 142.822  20.132  1.00101.49      A16S
ATOM  27090  C3*  G   A1283     245.617 144.810  18.880  1.00101.49      A16S
ATOM  27091  O3*  G   A1283     246.665 144.045  18.312  1.00101.49      A16S
ATOM  27092  P    C   A1284     246.668 143.765  16.729  1.00 81.80      A16S
ATOM  27093  O1P  C   A1284     248.012 143.245  16.367  1.00 70.83      A16S
ATOM  27094  O2P  C   A1284     246.135 144.957  16.026  1.00 70.83      A16S
ATOM  27095  O5*  C   A1284     245.616 142.588  16.567  1.00 81.80      A16S
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ATOM  27096  C5* C   A1284     245.698 141.422  17.404  1.00 81.80      A16S
ATOM  27097  C4* C   A1284     244.488 140.549  17.195  1.00 81.80      A16S
ATOM  27098  O4* C   A1284     243.304 141.220  17.690  1.00 81.80      A16S
ATOM  27099  C1* C   A1284     242.205 140.920  16.855  1.00 81.80      A16S
ATOM  27100  N1   C   A1284     241.688 142.172  16.288  1.00 70.83      A16S
ATOM  27101  C6   C   A1284     242.510 143.239  16.065  1.00 70.83      A16S
ATOM  27102  C2   C   A1284     240.332 142.251  15.974  1.00 70.83      A16S
ATOM  27103  O2   C   A1284     239.602 141.263  16.189  1.00 70.83      A16S
ATOM  27104  N3   C   A1284     239.843 143.393  15.447  1.00 70.83      A16S
ATOM  27105  C4   C   A1284     240.651 144.427  15.232  1.00 70.83      A16S
ATOM  27106  N4   C   A1284     240.121 145.530  14.705  1.00 70.83      A16S
ATOM  27107  C5   C   A1284     242.037 144.375  15.545  1.00 70.83      A16S
ATOM  27108  C2* C   A1284     242.681 139.943  15.784  1.00 81.80      A16S
ATOM  27109  O2* C   A1284     242.389 138.641  16.243  1.00 81.80      A16S
ATOM  27110  C3* C   A1284     244.174 140.230  15.745  1.00 81.80      A16S
ATOM  27111  O3* C   A1284     244.936 139.117  15.315  1.00 81.80      A16S
ATOM  27112  P    A   A1285     245.566 139.114  13.843  1.00 94.02      A16S
ATOM  27113  O1P A   A1285     244.444 139.119  12.887  1.00 73.81      A16S
ATOM  27114  O2P A   A1285     246.586 138.044  13.786  1.00 73.81      A16S
ATOM  27115  O5* A   A1285     246.291 140.516  13.696  1.00 94.02      A16S
ATOM  27116  C5* A   A1285     247.186 140.761  12.605  1.00 94.02      A16S
ATOM  27117  C4* A   A1285     246.806 142.040  11.908  1.00 94.02      A16S
ATOM  27118  O4* A   A1285     245.541 141.853  11.228  1.00 94.02      A16S
ATOM  27119  C1* A   A1285     244.769 143.038  11.306  1.00 94.02      A16S
ATOM  27120  N9   A   A1285     243.462 142.695  11.869  1.00 73.81      A16S
ATOM  27121  C4   A   A1285     242.285 143.370  11.651  1.00 73.81      A16S
ATOM  27122  N3   A   A1285     242.106 144.486  10.924  1.00 73.81      A16S
ATOM  27123  C2   A   A1285     240.825 144.842  10.916  1.00 73.81      A16S
ATOM  27124  N1   A   A1285     239.779 144.250  11.500  1.00 73.81      A16S
ATOM  27125  C6   A   A1285     239.990 143.124  12.217  1.00 73.81      A16S
ATOM  27126  N6   A   A1285     238.942 142.517  12.776  1.00 73.81      A16S
ATOM  27127  C5   A   A1285     241.310 142.651  12.319  1.00 73.81      A16S
ATOM  27128  N7   A   A1285     241.864 141.558  12.974  1.00 73.81      A16S
ATOM  27129  C8   A   A1285     243.140 141.633  12.683  1.00 73.81      A16S
ATOM  27130  C2* A   A1285     245.570 144.097  12.071  1.00 94.02      A16S
ATOM  27131  O2* A   A1285     246.089 145.040  11.154  1.00 94.02      A16S
ATOM  27132  C3* A   A1285     246.590 143.236  12.820  1.00 94.02      A16S
ATOM  27133  O3* A   A1285     247.836 143.826  13.243  1.00 94.02      A16S
ATOM  27134  P    A   A1286     248.794 144.613  12.201  1.00 93.15      A16S
ATOM  27135  O1P A   A1286     250.143 144.581  12.831  1.00105.83      A16S
ATOM  27136  O2P A   A1286     248.194 145.928  11.816  1.00105.83      A16S
ATOM  27137  O5* A   A1286     248.888 143.682  10.914  1.00 93.15      A16S
ATOM  27138  C5* A   A1286     248.453 144.166   9.635  1.00 93.15      A16S
ATOM  27139  C4* A   A1286     248.987 143.293   8.531  1.00 93.15      A16S
ATOM  27140  O4* A   A1286     248.853 141.894   8.907  1.00 93.15      A16S
ATOM  27141  C1* A   A1286     248.324 141.150   7.822  1.00 93.15      A16S
ATOM  27142  N9   A   A1286     246.958 140.763   8.201  1.00105.83      A16S
ATOM  27143  C4   A   A1286     246.568 139.566   8.746  1.00105.83      A16S
ATOM  27144  N3   A   A1286     247.340 138.500   9.007  1.00105.83      A16S
ATOM  27145  C2   A   A1286     246.618 137.526   9.551  1.00105.83      A16S
ATOM  27146  N1   A   A1286     245.312 137.501   9.852  1.00105.83      A16S
ATOM  27147  C6   A   A1286     244.566 138.595   9.582  1.00105.83      A16S
ATOM  27148  N6   A   A1286     243.267 138.584   9.897  1.00105.83      A16S
ATOM  27149  C5   A   A1286     245.209 139.689   8.990  1.00105.83      A16S
ATOM  27150  N7   A   A1286     244.743 140.928   8.585  1.00105.83      A16S
ATOM  27151  C8   A   A1286     245.811 141.524   8.124  1.00105.83      A16S
ATOM  27152  C2* A   A1286     248.380 142.063   6.592  1.00 93.15      A16S
ATOM  27153  O2* A   A1286     249.612 141.932   5.917  1.00 93.15      A16S
ATOM  27154  C3* A   A1286     248.211 143.433   7.235  1.00 93.15      A16S
ATOM  27155  O3* A   A1286     248.623 144.552   6.459  1.00 93.15      A16S
ATOM  27156  P    A   A1287     248.018 144.792   4.978  1.00105.96      A16S
ATOM  27157  O1P A   A1287     248.659 143.771   4.114  1.00 68.32      A16S
ATOM  27158  O2P A   A1287     248.194 146.237   4.668  1.00 68.32      A16S
ATOM  27159  O5* A   A1287     246.437 144.517   5.006  1.00105.96      A16S
ATOM  27160  C5* A   A1287     245.847 143.525   5.867  1.00105.96      A16S
ATOM  27161  C4* A   A1287     245.162 142.421   5.079  1.00105.96      A16S
ATOM  27162  O4* A   A1287     243.774 142.739   4.852  1.00105.96      A16S
ATOM  27163  C1* A   A1287     243.311 142.015   3.734  1.00105.96      A16S
ATOM  27164  N9   A   A1287     242.627 142.933   2.831  1.00 68.32      A16S
ATOM  27165  C4   A   A1287     241.567 142.612   2.021  1.00 68.32      A16S
ATOM  27166  N3   A   A1287     240.984 141.409   1.879  1.00 68.32      A16S
ATOM  27167  C2   A   A1287     239.971 141.480   1.022  1.00 68.32      A16S
ATOM  27168  N1   A   A1287     239.508 142.536   0.342  1.00 68.32      A16S
ATOM  27169  C6   A   A1287     240.120 143.727   0.505  1.00 68.32      A16S
ATOM  27170  N6   A   A1287     239.662 144.778  -0.176  1.00 68.32      A16S
ATOM  27171  C5   A   A1287     241.210 143.785   1.386  1.00 68.32      A16S
ATOM  27172  N7   A   A1287     242.045 144.823   1.771  1.00 68.32      A16S
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ATOM  27173  C8   A   A1287      242.868 144.264   2.623  1.00 68.32      A16S
ATOM  27174  C2*  A   A1287      244.491 141.262   3.122  1.00105.96      A16S
ATOM  27175  O2*  A   A1287      244.415 139.918   3.550  1.00105.96      A16S
ATOM  27176  C3*  A   A1287      245.690 141.995   3.719  1.00105.96      A16S
ATOM  27177  O3*  A   A1287      246.799 141.112   3.834  1.00105.96      A16S
ATOM  27178  P    A   A1288      247.758 140.864   2.565  1.00 89.07      A16S
ATOM  27179  O1P  A   A1288      248.881 140.014   3.045  1.00 60.69      A16S
ATOM  27180  O2P  A   A1288      248.037 142.160   1.871  1.00 60.69      A16S
ATOM  27181  O5*  A   A1288      246.885 139.988   1.570  1.00 89.07      A16S
ATOM  27182  C5*  A   A1288      246.774 138.569   1.744  1.00 89.07      A16S
ATOM  27183  C4*  A   A1288      245.875 137.997   0.685  1.00 89.07      A16S
ATOM  27184  O4*  A   A1288      244.575 138.625   0.806  1.00 89.07      A16S
ATOM  27185  C1*  A   A1288      244.017 138.818  -0.477  1.00 89.07      A16S
ATOM  27186  N9   A   A1288      243.779 140.247  -0.655  1.00 60.69      A16S
ATOM  27187  C4   A   A1288      242.789 140.825  -1.410  1.00 60.69      A16S
ATOM  27188  N3   A   A1288      241.840 140.204  -2.123  1.00 60.69      A16S
ATOM  27189  C2   A   A1288      241.067 141.091  -2.749  1.00 60.69      A16S
ATOM  27190  N1   A   A1288      241.129 142.427  -2.740  1.00 60.69      A16S
ATOM  27191  C6   A   A1288      242.094 143.017  -2.009  1.00 60.69      A16S
ATOM  27192  N6   A   A1288      242.157 144.349  -1.999  1.00 60.69      A16S
ATOM  27193  C5   A   A1288      242.980 142.186  -1.301  1.00 60.69      A16S
ATOM  27194  N7   A   A1288      244.062 142.461  -0.485  1.00 60.69      A16S
ATOM  27195  C8   A   A1288      244.495 141.280  -0.127  1.00 60.69      A16S
ATOM  27196  C2*  A   A1288      244.993 138.235  -1.503  1.00 89.07      A16S
ATOM  27197  O2*  A   A1288      244.626 136.905  -1.811  1.00 89.07      A16S
ATOM  27198  C3*  A   A1288      246.307 138.280  -0.742  1.00 89.07      A16S
ATOM  27199  O3*  A   A1288      247.218 137.298  -1.214  1.00 89.07      A16S
ATOM  27200  P    A   A1289      248.344 137.710  -2.284  1.00 59.94      A16S
ATOM  27201  O1P  A   A1289      249.184 136.500  -2.511  1.00 88.56      A16S
ATOM  27202  O2P  A   A1289      248.977 138.970  -1.820  1.00 88.56      A16S
ATOM  27203  O5*  A   A1289      247.535 138.038  -3.621  1.00 59.94      A16S
ATOM  27204  C5*  A   A1289      246.953 136.971  -4.385  1.00 59.94      A16S
ATOM  27205  C4*  A   A1289      245.808 137.463  -5.246  1.00 59.94      A16S
ATOM  27206  O4*  A   A1289      244.765 138.078  -4.439  1.00 59.94      A16S
ATOM  27207  C1*  A   A1289      244.056 139.017  -5.229  1.00 59.94      A16S
ATOM  27208  N9   A   A1289      244.209 140.353  -4.662  1.00 88.56      A16S
ATOM  27209  C4   A   A1289      243.505 141.449  -5.093  1.00 88.56      A16S
ATOM  27210  N3   A   A1289      242.531 141.473  -6.015  1.00 88.56      A16S
ATOM  27211  C2   A   A1289      242.109 142.715  -6.219  1.00 88.56      A16S
ATOM  27212  N1   A   A1289      242.522 143.851  -5.653  1.00 88.56      A16S
ATOM  27213  C6   A   A1289      243.504 143.792  -4.730  1.00 88.56      A16S
ATOM  27214  N6   A   A1289      243.920 144.930  -4.174  1.00 88.56      A16S
ATOM  27215  C5   A   A1289      244.031 142.526  -4.415  1.00 88.56      A16S
ATOM  27216  N7   A   A1289      245.013 142.113  -3.526  1.00 88.56      A16S
ATOM  27217  C8   A   A1289      245.071 140.815  -3.703  1.00 88.56      A16S
ATOM  27218  C2*  A   A1289      244.704 139.030  -6.613  1.00 59.94      A16S
ATOM  27219  O2*  A   A1289      243.987 138.182  -7.493  1.00 59.94      A16S
ATOM  27220  C3*  A   A1289      246.101 138.507  -6.308  1.00 59.94      A16S
ATOM  27221  O3*  A   A1289      246.688 137.967  -7.480  1.00 59.94      A16S
ATOM  27222  P    G   A1290      247.876 138.762  -8.211  1.00 70.35      A16S
ATOM  27223  O1P  G   A1290      247.864 138.399  -9.655  1.00 87.12      A16S
ATOM  27224  O2P  G   A1290      249.094 138.514  -7.402  1.00 87.12      A16S
ATOM  27225  O5*  G   A1290      247.484 140.304  -8.093  1.00 70.35      A16S
ATOM  27226  C5*  G   A1290      246.567 140.919  -9.025  1.00 70.35      A16S
ATOM  27227  C4*  G   A1290      246.582 142.426  -8.860  1.00 70.35      A16S
ATOM  27228  O4*  G   A1290      246.380 142.729  -7.457  1.00 70.35      A16S
ATOM  27229  C1*  G   A1290      247.140 143.864  -7.091  1.00 70.35      A16S
ATOM  27230  N9   G   A1290      248.082 143.465  -6.050  1.00 87.12      A16S
ATOM  27231  C4   G   A1290      248.917 144.300  -5.353  1.00 87.12      A16S
ATOM  27232  N3   G   A1290      249.003 145.636  -5.506  1.00 87.12      A16S
ATOM  27233  C2   G   A1290      249.914 146.164  -4.713  1.00 87.12      A16S
ATOM  27234  N2   G   A1290      250.124 147.486  -4.738  1.00 87.12      A16S
ATOM  27235  N1   G   A1290      250.682 145.436  -3.837  1.00 87.12      A16S
ATOM  27236  C6   G   A1290      250.609 144.057  -3.662  1.00 87.12      A16S
ATOM  27237  O6   G   A1290      251.349 143.495  -2.845  1.00 87.12      A16S
ATOM  27238  C5   G   A1290      249.633 143.480  -4.506  1.00 87.12      A16S
ATOM  27239  N7   G   A1290      249.244 142.156  -4.655  1.00 87.12      A16S
ATOM  27240  C8   G   A1290      248.322 142.195  -5.579  1.00 87.12      A16S
ATOM  27241  C2*  G   A1290      247.830 144.391  -8.348  1.00 70.35      A16S
ATOM  27242  O2*  G   A1290      247.056 145.436  -8.907  1.00 70.35      A16S
ATOM  27243  C3*  G   A1290      247.878 143.142  -9.224  1.00 70.35      A16S
ATOM  27244  O3*  G   A1290      247.924 143.481 -10.615  1.00 70.35      A16S
ATOM  27245  P    G   A1291      249.334 143.465 -11.405  1.00 78.29      A16S
ATOM  27246  O1P  G   A1291      249.061 143.863 -12.817  1.00 74.41      A16S
ATOM  27247  O2P  G   A1291      250.029 142.177 -11.125  1.00 74.41      A16S
ATOM  27248  O5*  G   A1291      250.183 144.616 -10.701  1.00 78.29      A16S
ATOM  27249  C5*  G   A1291      249.899 146.009 -10.936  1.00 78.29      A16S
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ATOM  27250  C4* G   A1291     250.867 146.870 -10.163  1.00 78.29      A16S
ATOM  27251  O4* G   A1291     250.642 146.678  -8.746  1.00 78.29      A16S
ATOM  27252  C1* G   A1291     251.875 146.722  -8.050  1.00 78.29      A16S
ATOM  27253  N9  G   A1291     252.077 145.435  -7.395  1.00 74.41      A16S
ATOM  27254  C4  G   A1291     253.062 145.111  -6.492  1.00 74.41      A16S
ATOM  27255  N3  G   A1291     254.043 145.926  -6.059  1.00 74.41      A16S
ATOM  27256  C2  G   A1291     254.833 145.323  -5.187  1.00 74.41      A16S
ATOM  27257  N2  G   A1291     255.862 145.986  -4.649  1.00 74.41      A16S
ATOM  27258  N1  G   A1291     254.672 144.027  -4.776  1.00 74.41      A16S
ATOM  27259  C6  G   A1291     253.667 143.172  -5.208  1.00 74.41      A16S
ATOM  27260  O6  G   A1291     253.604 142.017  -4.768  1.00 74.41      A16S
ATOM  27261  C5  G   A1291     252.819 143.802  -6.143  1.00 74.41      A16S
ATOM  27262  N7  G   A1291     251.715 143.309  -6.818  1.00 74.41      A16S
ATOM  27263  C8  G   A1291     251.311 144.309  -7.550  1.00 74.41      A16S
ATOM  27264  C2* G   A1291     252.964 147.043  -9.066  1.00 78.29      A16S
ATOM  27265  O2* G   A1291     253.148 148.444  -9.062  1.00 78.29      A16S
ATOM  27266  C3* G   A1291     252.335 146.536 -10.356  1.00 78.29      A16S
ATOM  27267  O3* G   A1291     252.872 147.166 -11.503  1.00 78.29      A16S
ATOM  27268  P   U   A1292     254.111 146.488 -12.269  1.00 98.06      A16S
ATOM  27269  O1P U   A1292     254.454 147.415 -13.386  1.00 94.61      A16S
ATOM  27270  O2P U   A1292     253.772 145.071 -12.561  1.00 94.61      A16S
ATOM  27271  O5* U   A1292     255.294 146.488 -11.199  1.00 98.06      A16S
ATOM  27272  C5* U   A1292     256.028 147.696 -10.912  1.00 98.06      A16S
ATOM  27273  C4* U   A1292     257.230 147.398 -10.047  1.00 98.06      A16S
ATOM  27274  O4* U   A1292     256.803 146.964  -8.731  1.00 98.06      A16S
ATOM  27275  C1* U   A1292     257.719 146.012  -8.223  1.00 98.06      A16S
ATOM  27276  N1  U   A1292     257.002 144.754  -7.981  1.00 94.61      A16S
ATOM  27277  C6  U   A1292     255.959 144.360  -8.787  1.00 94.61      A16S
ATOM  27278  C2  U   A1292     257.420 143.965  -6.927  1.00 94.61      A16S
ATOM  27279  O2  U   A1292     258.327 144.279  -6.181  1.00 94.61      A16S
ATOM  27280  N3  U   A1292     256.736 142.788  -6.777  1.00 94.61      A16S
ATOM  27281  C4  U   A1292     255.700 142.327  -7.554  1.00 94.61      A16S
ATOM  27282  O4  U   A1292     255.199 141.229  -7.304  1.00 94.61      A16S
ATOM  27283  C5  U   A1292     255.314 143.204  -8.616  1.00 94.61      A16S
ATOM  27284  C2* U   A1292     258.827 145.826  -9.260  1.00 98.06      A16S
ATOM  27285  O2* U   A1292     259.939 146.627  -8.923  1.00 98.06      A16S
ATOM  27286  C3* U   A1292     258.135 146.283 -10.537  1.00 98.06      A16S
ATOM  27287  O3* U   A1292     259.058 146.735 -11.518  1.00 98.06      A16S
ATOM  27288  P   G   A1293     259.726 145.671 -12.525  1.00101.52      A16S
ATOM  27289  O1P G   A1293     260.544 146.457 -13.490  1.00 81.21      A16S
ATOM  27290  O2P G   A1293     258.671 144.756 -13.039  1.00 81.21      A16S
ATOM  27291  O5* G   A1293     260.702 144.832 -11.583  1.00101.52      A16S
ATOM  27292  C5* G   A1293     261.865 145.454 -11.020  1.00101.52      A16S
ATOM  27293  C4* G   A1293     262.577 144.513 -10.090  1.00101.52      A16S
ATOM  27294  O4* G   A1293     261.779 144.292  -8.902  1.00101.52      A16S
ATOM  27295  C1* G   A1293     261.998 142.976  -8.420  1.00101.52      A16S
ATOM  27296  N9  G   A1293     260.742 142.236  -8.482  1.00 81.21      A16S
ATOM  27297  C4  G   A1293     260.407 141.136  -7.728  1.00 81.21      A16S
ATOM  27298  N3  G   A1293     261.166 140.572  -6.768  1.00 81.21      A16S
ATOM  27299  C2  G   A1293     260.586 139.509  -6.241  1.00 81.21      A16S
ATOM  27300  N2  G   A1293     261.202 138.830  -5.277  1.00 81.21      A16S
ATOM  27301  N1  G   A1293     259.359 139.036  -6.622  1.00 81.21      A16S
ATOM  27302  C6  G   A1293     258.559 139.598  -7.613  1.00 81.21      A16S
ATOM  27303  O6  G   A1293     257.468 139.079  -7.895  1.00 81.21      A16S
ATOM  27304  C5  G   A1293     259.169 140.744  -8.184  1.00 81.21      A16S
ATOM  27305  N7  G   A1293     258.723 141.594  -9.186  1.00 81.21      A16S
ATOM  27306  C8  G   A1293     259.683 142.466  -9.324  1.00 81.21      A16S
ATOM  27307  C2* G   A1293     263.028 142.321  -9.337  1.00101.52      A16S
ATOM  27308  O2* G   A1293     264.312 142.458  -8.764  1.00101.52      A16S
ATOM  27309  C3* G   A1293     262.841 143.118 -10.620  1.00101.52      A16S
ATOM  27310  O3* G   A1293     263.949 143.051 -11.505  1.00101.52      A16S
ATOM  27311  P   G   A1294     263.934 141.975 -12.707  1.00 78.57      A16S
ATOM  27312  O1P G   A1294     265.019 142.355 -13.657  1.00 81.19      A16S
ATOM  27313  O2P G   A1294     262.540 141.850 -13.213  1.00 81.19      A16S
ATOM  27314  O5* G   A1294     264.330 140.611 -11.980  1.00 78.57      A16S
ATOM  27315  C5* G   A1294     265.537 140.538 -11.207  1.00 78.57      A16S
ATOM  27316  C4* G   A1294     265.482 139.406 -10.212  1.00 78.57      A16S
ATOM  27317  O4* G   A1294     264.388 139.612  -9.277  1.00 78.57      A16S
ATOM  27318  C1* G   A1294     263.886 138.353  -8.843  1.00 78.57      A16S
ATOM  27319  N9  G   A1294     262.502 138.203  -9.291  1.00 81.19      A16S
ATOM  27320  C4  G   A1294     261.611 137.255  -8.843  1.00 81.19      A16S
ATOM  27321  N3  G   A1294     261.845 136.350  -7.873  1.00 81.19      A16S
ATOM  27322  C2  G   A1294     260.812 135.556  -7.682  1.00 81.19      A16S
ATOM  27323  N2  G   A1294     260.878 134.609  -6.749  1.00 81.19      A16S
ATOM  27324  N1  G   A1294     259.639 135.635  -8.393  1.00 81.19      A16S
ATOM  27325  C6  G   A1294     259.376 136.554  -9.405  1.00 81.19      A16S
ATOM  27326  O6  G   A1294     258.292 136.529 -10.000  1.00 81.19      A16S
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ATOM  27327  C5  G   A1294     260.477 137.425  -9.611  1.00 81.19      A16S
ATOM  27328  N7  G   A1294     260.635 138.482 -10.500  1.00 81.19      A16S
ATOM  27329  C8  G   A1294     261.845 138.921 -10.268  1.00 81.19      A16S
ATOM  27330  C2* G   A1294     264.735 137.275  -9.515  1.00 78.57      A16S
ATOM  27331  O2* G   A1294     265.782 136.867  -8.654  1.00 78.57      A16S
ATOM  27332  C3* G   A1294     265.225 138.012 -10.752  1.00 78.57      A16S
ATOM  27333  O3* G   A1294     266.346 137.388 -11.341  1.00 78.57      A16S
ATOM  27334  P   G   A1295     266.108 136.307 -12.508  1.00 74.62      A16S
ATOM  27335  O1P G   A1295     267.409 136.012 -13.167  1.00 61.16      A16S
ATOM  27336  O2P G   A1295     264.981 136.808 -13.333  1.00 61.16      A16S
ATOM  27337  O5* G   A1295     265.646 135.001 -11.716  1.00 74.62      A16S
ATOM  27338  C5* G   A1295     266.454 134.489 -10.650  1.00 74.62      A16S
ATOM  27339  C4* G   A1295     265.746 133.377  -9.921  1.00 74.62      A16S
ATOM  27340  O4* G   A1295     264.581 133.887  -9.221  1.00 74.62      A16S
ATOM  27341  C1* G   A1295     263.553 132.902  -9.212  1.00 74.62      A16S
ATOM  27342  N9  G   A1295     262.419 133.413  -9.987  1.00 61.16      A16S
ATOM  27343  C4  G   A1295     261.141 132.895 -10.024  1.00 61.16      A16S
ATOM  27344  N3  G   A1295     260.697 131.830  -9.333  1.00 61.16      A16S
ATOM  27345  C2  G   A1295     259.433 131.575  -9.589  1.00 61.16      A16S
ATOM  27346  N2  G   A1295     258.839 130.546  -9.004  1.00 61.16      A16S
ATOM  27347  N1  G   A1295     258.658 132.306 -10.440  1.00 61.16      A16S
ATOM  27348  C6  G   A1295     259.083 133.410 -11.159  1.00 61.16      A16S
ATOM  27349  O6  G   A1295     258.292 134.007 -11.900  1.00 61.16      A16S
ATOM  27350  C5  G   A1295     260.446 133.695 -10.909  1.00 61.16      A16S
ATOM  27351  N7  G   A1295     261.264 134.697 -11.417  1.00 61.16      A16S
ATOM  27352  C8  G   A1295     262.418 134.495 -10.840  1.00 61.16      A16S
ATOM  27353  C2* G   A1295     264.143 131.650  -9.857  1.00 74.62      A16S
ATOM  27354  O2* G   A1295     264.714 130.826  -8.854  1.00 74.62      A16S
ATOM  27355  C3* G   A1295     265.189 132.265 -10.775  1.00 74.62      A16S
ATOM  27356  O3* G   A1295     266.170 131.358 -11.206  1.00 74.62      A16S
ATOM  27357  P   C   A1296     266.100 130.806 -12.709  1.00 87.13      A16S
ATOM  27358  O1P C   A1296     267.363 130.082 -12.966  1.00 48.94      A16S
ATOM  27359  O2P C   A1296     265.692 131.924 -13.608  1.00 48.94      A16S
ATOM  27360  O5* C   A1296     264.915 129.743 -12.665  1.00 87.13      A16S
ATOM  27361  C5* C   A1296     264.913 128.680 -11.691  1.00 87.13      A16S
ATOM  27362  C4* C   A1296     263.637 127.876 -11.791  1.00 87.13      A16S
ATOM  27363  O4* C   A1296     262.510 128.651 -11.332  1.00 87.13      A16S
ATOM  27364  C1* C   A1296     261.362 128.288 -12.066  1.00 87.13      A16S
ATOM  27365  N1  C   A1296     260.797 129.494 -12.672  1.00 48.94      A16S
ATOM  27366  C6  C   A1296     261.582 130.567 -12.977  1.00 48.94      A16S
ATOM  27367  C2  C   A1296     259.432 129.520 -12.940  1.00 48.94      A16S
ATOM  27368  O2  C   A1296     258.739 128.531 -12.622  1.00 48.94      A16S
ATOM  27369  N3  C   A1296     258.896 130.612 -13.531  1.00 48.94      A16S
ATOM  27370  C4  C   A1296     259.673 131.647 -13.842  1.00 48.94      A16S
ATOM  27371  N4  C   A1296     259.111 132.694 -14.444  1.00 48.94      A16S
ATOM  27372  C5  C   A1296     261.066 131.653 -13.554  1.00 48.94      A16S
ATOM  27373  C2* C   A1296     261.752 127.227 -13.095  1.00 87.13      A16S
ATOM  27374  O2* C   A1296     261.389 125.952 -12.616  1.00 87.13      A16S
ATOM  27375  C3* C   A1296     263.260 127.414 -13.185  1.00 87.13      A16S
ATOM  27376  O3* C   A1296     263.896 126.180 -13.427  1.00 87.13      A16S
ATOM  27377  P   C   A1297     264.763 125.980 -14.750  1.00 48.35      A16S
ATOM  27378  O1P C   A1297     265.405 124.645 -14.585  1.00 66.90      A16S
ATOM  27379  O2P C   A1297     265.591 127.183 -15.011  1.00 66.90      A16S
ATOM  27380  O5* C   A1297     263.676 125.854 -15.892  1.00 48.35      A16S
ATOM  27381  C5* C   A1297     262.793 124.737 -15.911  1.00 48.35      A16S
ATOM  27382  C4* C   A1297     261.802 124.916 -17.010  1.00 48.35      A16S
ATOM  27383  O4* C   A1297     261.202 126.227 -16.847  1.00 48.35      A16S
ATOM  27384  C1* C   A1297     261.346 126.970 -18.032  1.00 48.35      A16S
ATOM  27385  N1  C   A1297     261.511 128.382 -17.676  1.00 66.90      A16S
ATOM  27386  C6  C   A1297     262.358 128.760 -16.673  1.00 66.90      A16S
ATOM  27387  C2  C   A1297     260.773 129.342 -18.377  1.00 66.90      A16S
ATOM  27388  O2  C   A1297     260.010 128.976 -19.283  1.00 66.90      A16S
ATOM  27389  N3  C   A1297     260.906 130.645 -18.050  1.00 66.90      A16S
ATOM  27390  C4  C   A1297     261.733 131.004 -17.066  1.00 66.90      A16S
ATOM  27391  N4  C   A1297     261.832 132.305 -16.776  1.00 66.90      A16S
ATOM  27392  C5  C   A1297     262.496 130.047 -16.337  1.00 66.90      A16S
ATOM  27393  C2* C   A1297     262.515 126.353 -18.785  1.00 48.35      A16S
ATOM  27394  O2* C   A1297     262.349 126.577 -20.166  1.00 48.35      A16S
ATOM  27395  C3* C   A1297     262.366 124.879 -18.422  1.00 48.35      A16S
ATOM  27396  O3* C   A1297     261.366 124.289 -19.229  1.00 48.35      A16S
ATOM  27397  P   C   A1298     261.756 123.570 -20.603  1.00 53.74      A16S
ATOM  27398  O1P C   A1298     263.121 122.992 -20.478  1.00 54.02      A16S
ATOM  27399  O2P C   A1298     261.448 124.543 -21.681  1.00 54.02      A16S
ATOM  27400  O5* C   A1298     260.712 122.375 -20.699  1.00 53.74      A16S
ATOM  27401  C5* C   A1298     260.446 121.532 -19.559  1.00 53.74      A16S
ATOM  27402  C4* C   A1298     258.955 121.345 -19.380  1.00 53.74      A16S
ATOM  27403  O4* C   A1298     258.330 122.550 -18.855  1.00 53.74      A16S
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ATOM  27404  C1* C   A1298     257.230 122.891 -19.665  1.00 53.74      A16S
ATOM  27405  N1   C   A1298     256.993 124.346 -19.600  1.00 54.02      A16S
ATOM  27406  C6   C   A1298     258.000 125.225 -19.313  1.00 54.02      A16S
ATOM  27407  C2   C   A1298     255.696 124.818 -19.829  1.00 54.02      A16S
ATOM  27408  O2   C   A1298     254.796 124.006 -20.092  1.00 54.02      A16S
ATOM  27409  N3   C   A1298     255.447 126.144 -19.758  1.00 54.02      A16S
ATOM  27410  C4   C   A1298     256.430 126.991 -19.468  1.00 54.02      A16S
ATOM  27411  N4   C   A1298     256.126 128.290 -19.397  1.00 54.02      A16S
ATOM  27412  C5   C   A1298     257.766 126.544 -19.235  1.00 54.02      A16S
ATOM  27413  C2* C   A1298     257.533 122.294 -21.038  1.00 53.74      A16S
ATOM  27414  O2* C   A1298     256.349 122.079 -21.772  1.00 53.74      A16S
ATOM  27415  C3* C   A1298     258.183 120.976 -20.638  1.00 53.74      A16S
ATOM  27416  O3* C   A1298     257.150 120.099 -20.234  1.00 53.74      A16S
ATOM  27417  P    A   A1299     256.768 118.826 -21.128  1.00 52.34      A16S
ATOM  27418  O1P A   A1299     255.303 118.923 -21.390  1.00 76.92      A16S
ATOM  27419  O2P A   A1299     257.719 118.703 -22.275  1.00 76.92      A16S
ATOM  27420  O5* A   A1299     257.005 117.628 -20.112  1.00 52.34      A16S
ATOM  27421  C5* A   A1299     258.320 117.122 -19.911  1.00 52.34      A16S
ATOM  27422  C4* A   A1299     258.765 117.326 -18.486  1.00 52.34      A16S
ATOM  27423  O4* A   A1299     258.832 118.724 -18.150  1.00 52.34      A16S
ATOM  27424  C1* A   A1299     258.883 118.821 -16.746  1.00 52.34      A16S
ATOM  27425  N9   A   A1299     258.409 120.140 -16.330  1.00 76.92      A16S
ATOM  27426  C4   A   A1299     257.241 120.790 -16.644  1.00 76.92      A16S
ATOM  27427  N3   A   A1299     256.205 120.312 -17.344  1.00 76.92      A16S
ATOM  27428  C2   A   A1299     255.271 121.253 -17.489  1.00 76.92      A16S
ATOM  27429  N1   A   A1299     255.263 122.524 -17.051  1.00 76.92      A16S
ATOM  27430  C6   A   A1299     256.323 122.967 -16.352  1.00 76.92      A16S
ATOM  27431  N6   A   A1299     256.326 124.228 -15.928  1.00 76.92      A16S
ATOM  27432  C5   A   A1299     257.369 122.067 -16.120  1.00 76.92      A16S
ATOM  27433  N7   A   A1299     258.566 122.198 -15.439  1.00 76.92      A16S
ATOM  27434  C8   A   A1299     259.136 121.027 -15.577  1.00 76.92      A16S
ATOM  27435  C2* A   A1299     258.317 117.530 -16.145  1.00 52.34      A16S
ATOM  27436  O2* A   A1299     259.376 116.895 -15.460  1.00 52.34      A16S
ATOM  27437  C3* A   A1299     257.891 116.744 -17.397  1.00 52.34      A16S
ATOM  27438  O3* A   A1299     258.243 115.379 -17.288  1.00 52.34      A16S
ATOM  27439  P    G   A1300     257.107 114.259 -17.209  1.00 65.42      A16S
ATOM  27440  O1P G   A1300     257.252 113.450 -18.431  1.00 57.93      A16S
ATOM  27441  O2P G   A1300     255.816 114.917 -16.930  1.00 57.93      A16S
ATOM  27442  O5* G   A1300     257.577 113.402 -15.943  1.00 65.42      A16S
ATOM  27443  C5* G   A1300     256.720 113.147 -14.778  1.00 65.42      A16S
ATOM  27444  C4* G   A1300     256.476 114.417 -13.971  1.00 65.42      A16S
ATOM  27445  O4* G   A1300     255.192 114.924 -14.397  1.00 65.42      A16S
ATOM  27446  C1* G   A1300     254.465 115.392 -13.291  1.00 65.42      A16S
ATOM  27447  N9   G   A1300     253.167 114.729 -13.277  1.00 57.93      A16S
ATOM  27448  C4   G   A1300     251.953 115.365 -13.342  1.00 57.93      A16S
ATOM  27449  N3   G   A1300     251.760 116.702 -13.337  1.00 57.93      A16S
ATOM  27450  C2   G   A1300     250.490 117.020 -13.472  1.00 57.93      A16S
ATOM  27451  N2   G   A1300     250.127 118.307 -13.492  1.00 57.93      A16S
ATOM  27452  N1   G   A1300     249.483 116.099 -13.601  1.00 57.93      A16S
ATOM  27453  C6   G   A1300     249.655 114.719 -13.608  1.00 57.93      A16S
ATOM  27454  O6   G   A1300     248.676 113.981 -13.749  1.00 57.93      A16S
ATOM  27455  C5   G   A1300     251.020 114.363 -13.454  1.00 57.93      A16S
ATOM  27456  N7   G   A1300     251.628 113.118 -13.397  1.00 57.93      A16S
ATOM  27457  C8   G   A1300     252.900 113.385 -13.273  1.00 57.93      A16S
ATOM  27458  C2* G   A1300     255.329 115.281 -12.040  1.00 65.42      A16S
ATOM  27459  O2* G   A1300     255.889 116.551 -11.778  1.00 65.42      A16S
ATOM  27460  C3* G   A1300     256.367 114.240 -12.450  1.00 65.42      A16S
ATOM  27461  O3* G   A1300     257.675 114.435 -11.828  1.00 65.42      A16S
ATOM  27462  P    U   A1301     257.846 115.229 -10.405  1.00 67.23      A16S
ATOM  27463  O1P U   A1301     259.040 114.629  -9.742  1.00 61.17      A16S
ATOM  27464  O2P U   A1301     256.572 115.304  -9.636  1.00 61.17      A16S
ATOM  27465  O5* U   A1301     258.217 116.725 -10.833  1.00 67.23      A16S
ATOM  27466  C5* U   A1301     259.444 117.028 -11.531  1.00 67.23      A16S
ATOM  27467  C4* U   A1301     259.516 118.508 -11.850  1.00 67.23      A16S
ATOM  27468  O4* U   A1301     258.465 118.832 -12.778  1.00 67.23      A16S
ATOM  27469  C1* U   A1301     258.013 120.147 -12.544  1.00 67.23      A16S
ATOM  27470  N1   U   A1301     256.562 120.182 -12.784  1.00 61.17      A16S
ATOM  27471  C6   U   A1301     255.779 119.081 -12.560  1.00 61.17      A16S
ATOM  27472  C2   U   A1301     256.015 121.342 -13.270  1.00 61.17      A16S
ATOM  27473  O2   U   A1301     256.659 122.354 -13.444  1.00 61.17      A16S
ATOM  27474  N3   U   A1301     254.676 121.277 -13.546  1.00 61.17      A16S
ATOM  27475  C4   U   A1301     253.844 120.195 -13.374  1.00 61.17      A16S
ATOM  27476  O4   U   A1301     252.671 120.264 -13.747  1.00 61.17      A16S
ATOM  27477  C5   U   A1301     254.478 119.047 -12.830  1.00 61.17      A16S
ATOM  27478  C2* U   A1301     258.517 120.635 -11.179  1.00 67.23      A16S
ATOM  27479  O2* U   A1301     259.143 121.895 -11.291  1.00 67.23      A16S
ATOM  27480  C3* U   A1301     259.337 119.439 -10.656  1.00 67.23      A16S
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ATOM  27481  O3*  U    A1301     260.620 119.626  -9.982  1.00 67.23      A16S
ATOM  27482  P    U    A1302     261.596 120.887 -10.310  1.00 47.56      A16S
ATOM  27483  O1P  U    A1302     261.441 121.384 -11.698  1.00 84.73      A16S
ATOM  27484  O2P  U    A1302     262.919 120.435  -9.862  1.00 84.73      A16S
ATOM  27485  O5*  U    A1302     261.107 122.005  -9.288  1.00 47.56      A16S
ATOM  27486  C5*  U    A1302     260.774 121.642  -7.922  1.00 47.56      A16S
ATOM  27487  C4*  U    A1302     259.799 122.633  -7.311  1.00 47.56      A16S
ATOM  27488  O4*  U    A1302     260.493 123.830  -6.887  1.00 47.56      A16S
ATOM  27489  C1*  U    A1302     259.904 124.979  -7.466  1.00 47.56      A16S
ATOM  27490  N1   U    A1302     261.011 125.847  -7.904  1.00 84.73      A16S
ATOM  27491  C6   U    A1302     262.153 125.306  -8.465  1.00 84.73      A16S
ATOM  27492  C2   U    A1302     260.902 127.216  -7.706  1.00 84.73      A16S
ATOM  27493  O2   U    A1302     259.902 127.749  -7.262  1.00 84.73      A16S
ATOM  27494  N3   U    A1302     262.020 127.941  -8.051  1.00 84.73      A16S
ATOM  27495  C4   U    A1302     263.209 127.453  -8.570  1.00 84.73      A16S
ATOM  27496  O4   U    A1302     264.174 128.213  -8.700  1.00 84.73      A16S
ATOM  27497  C5   U    A1302     263.222 126.041  -8.792  1.00 84.73      A16S
ATOM  27498  C2*  U    A1302     258.977 124.515  -8.590  1.00 47.56      A16S
ATOM  27499  O2*  U    A1302     257.895 125.404  -8.779  1.00 47.56      A16S
ATOM  27500  C3*  U    A1302     258.630 123.080  -8.170  1.00 47.56      A16S
ATOM  27501  O3*  U    A1302     257.341 122.545  -7.736  1.00 47.56      A16S
ATOM  27502  P    C    A1303     256.361 123.335  -6.708  1.00 54.32      A16S
ATOM  27503  O1P  C    A1303     256.844 124.725  -6.445  1.00 46.84      A16S
ATOM  27504  O2P  C    A1303     256.104 122.403  -5.563  1.00 46.84      A16S
ATOM  27505  O5*  C    A1303     254.989 123.435  -7.516  1.00 54.32      A16S
ATOM  27506  C5*  C    A1303     254.854 124.376  -8.604  1.00 54.32      A16S
ATOM  27507  C4*  C    A1303     253.689 124.014  -9.502  1.00 54.32      A16S
ATOM  27508  O4*  C    A1303     254.057 122.954 -10.417  1.00 54.32      A16S
ATOM  27509  C1*  C    A1303     252.928 122.125 -10.655  1.00 54.32      A16S
ATOM  27510  N1   C    A1303     253.268 120.747 -10.250  1.00 46.84      A16S
ATOM  27511  C6   C    A1303     254.495 120.461  -9.733  1.00 46.84      A16S
ATOM  27512  C2   C    A1303     252.328 119.726 -10.428  1.00 46.84      A16S
ATOM  27513  O2   C    A1303     251.196 120.015 -10.832  1.00 46.84      A16S
ATOM  27514  N3   C    A1303     252.677 118.449 -10.146  1.00 46.84      A16S
ATOM  27515  C4   C    A1303     253.894 118.181  -9.678  1.00 46.84      A16S
ATOM  27516  N4   C    A1303     254.217 116.909  -9.447  1.00 46.84      A16S
ATOM  27517  C5   C    A1303     254.843 119.205  -9.434  1.00 46.84      A16S
ATOM  27518  C2*  C    A1303     251.736 122.720  -9.901  1.00 54.32      A16S
ATOM  27519  O2*  C    A1303     250.992 123.549 -10.768  1.00 54.32      A16S
ATOM  27520  C3*  C    A1303     252.433 123.514  -8.805  1.00 54.32      A16S
ATOM  27521  O3*  C    A1303     251.634 124.565  -8.281  1.00 54.32      A16S
ATOM  27522  P    G    A1304     251.249 124.547  -6.723  1.00 45.65      A16S
ATOM  27523  O1P  G    A1304     250.130 125.506  -6.573  1.00 69.86      A16S
ATOM  27524  O2P  G    A1304     252.477 124.699  -5.892  1.00 69.86      A16S
ATOM  27525  O5*  G    A1304     250.662 123.084  -6.496  1.00 45.65      A16S
ATOM  27526  C5*  G    A1304     249.424 122.697  -7.134  1.00 45.65      A16S
ATOM  27527  C4*  G    A1304     249.020 121.296  -6.735  1.00 45.65      A16S
ATOM  27528  O4*  G    A1304     249.790 120.308  -7.449  1.00 45.65      A16S
ATOM  27529  C1*  G    A1304     249.935 119.151  -6.645  1.00 45.65      A16S
ATOM  27530  N9   G    A1304     251.355 118.834  -6.548  1.00 69.86      A16S
ATOM  27531  C4   G    A1304     251.929 117.594  -6.630  1.00 69.86      A16S
ATOM  27532  N3   G    A1304     251.280 116.433  -6.800  1.00 69.86      A16S
ATOM  27533  C2   G    A1304     252.110 115.407  -6.832  1.00 69.86      A16S
ATOM  27534  N2   G    A1304     251.638 114.169  -6.979  1.00 69.86      A16S
ATOM  27535  N1   G    A1304     253.466 115.514  -6.720  1.00 69.86      A16S
ATOM  27536  C6   G    A1304     254.155 116.701  -6.547  1.00 69.86      A16S
ATOM  27537  O6   G    A1304     255.390 116.690  -6.454  1.00 69.86      A16S
ATOM  27538  C5   G    A1304     253.279 117.806  -6.502  1.00 69.86      A16S
ATOM  27539  N7   G    A1304     253.551 119.152  -6.338  1.00 69.86      A16S
ATOM  27540  C8   G    A1304     252.381 119.722  -6.369  1.00 69.86      A16S
ATOM  27541  C2*  G    A1304     249.241 119.416  -5.308  1.00 45.65      A16S
ATOM  27542  O2*  G    A1304     247.958 118.848  -5.367  1.00 45.65      A16S
ATOM  27543  C3*  G    A1304     249.181 120.939  -5.274  1.00 45.65      A16S
ATOM  27544  O3*  G    A1304     248.056 121.410  -4.561  1.00 45.65      A16S
ATOM  27545  P    G    A1305     248.212 121.921  -3.049  1.00 41.97      A16S
ATOM  27546  O1P  G    A1305     247.760 123.330  -3.022  1.00 69.19      A16S
ATOM  27547  O2P  G    A1305     249.539 121.574  -2.520  1.00 69.19      A16S
ATOM  27548  O5*  G    A1305     247.114 121.068  -2.285  1.00 41.97      A16S
ATOM  27549  C5*  G    A1305     247.321 120.635  -0.948  1.00 41.97      A16S
ATOM  27550  C4*  G    A1305     247.828 119.239  -0.963  1.00 41.97      A16S
ATOM  27551  O4*  G    A1305     248.849 119.179  -1.965  1.00 41.97      A16S
ATOM  27552  C1*  G    A1305     249.831 118.272  -1.547  1.00 41.97      A16S
ATOM  27553  N9   G    A1305     251.154 118.781  -1.904  1.00 69.19      A16S
ATOM  27554  C4   G    A1305     252.153 118.049  -2.489  1.00 69.19      A16S
ATOM  27555  N3   G    A1305     252.099 116.740  -2.775  1.00 69.19      A16S
ATOM  27556  C2   G    A1305     253.183 116.327  -3.387  1.00 69.19      A16S
ATOM  27557  N2   G    A1305     253.259 115.078  -3.808  1.00 69.19      A16S
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ATOM  27558  N1  G  A1305     254.260 117.117  -3.657  1.00 69.19      A16S
ATOM  27559  C6  G  A1305     254.343 118.471  -3.376  1.00 69.19      A16S
ATOM  27560  O6  G  A1305     255.362 119.106  -3.698  1.00 69.19      A16S
ATOM  27561  C5  G  A1305     253.166 118.940  -2.739  1.00 69.19      A16S
ATOM  27562  N7  G  A1305     252.824 120.209  -2.297  1.00 69.19      A16S
ATOM  27563  C8  G  A1305     251.630 120.062  -1.790  1.00 69.19      A16S
ATOM  27564  C2* G  A1305     249.514 117.778  -0.129  1.00 41.97      A16S
ATOM  27565  O2* G  A1305     248.931 116.506  -0.247  1.00 41.97      A16S
ATOM  27566  C3* G  A1305     248.446 118.758   0.341  1.00 41.97      A16S
ATOM  27567  O3* G  A1305     247.388 118.088   1.065  1.00 41.97      A16S
ATOM  27568  P   A  A1306     247.705 117.190   2.380  1.00 49.85      A16S
ATOM  27569  O1P A  A1306     246.813 117.742   3.439  1.00 58.18      A16S
ATOM  27570  O2P A  A1306     249.174 117.082   2.637  1.00 58.18      A16S
ATOM  27571  O5* A  A1306     247.207 115.719   2.006  1.00 49.85      A16S
ATOM  27572  C5* A  A1306     245.887 115.481   1.482  1.00 49.85      A16S
ATOM  27573  C4* A  A1306     245.824 114.128   0.812  1.00 49.85      A16S
ATOM  27574  O4* A  A1306     246.690 114.098  -0.359  1.00 49.85      A16S
ATOM  27575  C1* A  A1306     247.301 112.816  -0.483  1.00 49.85      A16S
ATOM  27576  N9  A  A1306     248.756 112.982  -0.369  1.00 58.18      A16S
ATOM  27577  C4  A  A1306     249.736 112.016  -0.374  1.00 58.18      A16S
ATOM  27578  N3  A  A1306     249.585 110.686  -0.484  1.00 58.18      A16S
ATOM  27579  C2  A  A1306     250.766 110.073  -0.454  1.00 58.18      A16S
ATOM  27580  N1  A  A1306     251.989 110.596  -0.332  1.00 58.18      A16S
ATOM  27581  C6  A  A1306     252.107 111.933  -0.223  1.00 58.18      A16S
ATOM  27582  N6  A  A1306     253.325 112.461  -0.098  1.00 58.18      A16S
ATOM  27583  C5  A  A1306     250.930 112.695  -0.245  1.00 58.18      A16S
ATOM  27584  N7  A  A1306     250.707 114.057  -0.157  1.00 58.18      A16S
ATOM  27585  C8  A  A1306     249.411 114.166  -0.235  1.00 58.18      A16S
ATOM  27586  C2* A  A1306     246.708 111.930   0.612  1.00 49.85      A16S
ATOM  27587  O2* A  A1306     245.602 111.248   0.053  1.00 49.85      A16S
ATOM  27588  C3* A  A1306     246.302 112.965   1.657  1.00 49.85      A16S
ATOM  27589  O3* A  A1306     245.279 112.506   2.504  1.00 49.85      A16S
ATOM  27590  P   U  A1307     245.630 112.112   4.011  1.00 45.56      A16S
ATOM  27591  O1P U  A1307     244.419 111.494   4.610  1.00 71.35      A16S
ATOM  27592  O2P U  A1307     246.245 113.297   4.660  1.00 71.35      A16S
ATOM  27593  O5* U  A1307     246.732 110.978   3.861  1.00 45.56      A16S
ATOM  27594  C5* U  A1307     246.403 109.744   3.224  1.00 45.56      A16S
ATOM  27595  C4* U  A1307     247.638 108.904   3.022  1.00 45.56      A16S
ATOM  27596  O4* U  A1307     248.539 109.558   2.093  1.00 45.56      A16S
ATOM  27597  C1* U  A1307     249.877 109.277   2.452  1.00 45.56      A16S
ATOM  27598  N1  U  A1307     250.559 110.555   2.700  1.00 71.35      A16S
ATOM  27599  C6  U  A1307     249.844 111.711   2.862  1.00 71.35      A16S
ATOM  27600  C2  U  A1307     251.941 110.560   2.766  1.00 71.35      A16S
ATOM  27601  O2  U  A1307     252.621 109.559   2.614  1.00 71.35      A16S
ATOM  27602  N3  U  A1307     252.503 111.784   3.012  1.00 71.35      A16S
ATOM  27603  C4  U  A1307     251.843 112.978   3.189  1.00 71.35      A16S
ATOM  27604  O4  U  A1307     252.488 114.001   3.438  1.00 71.35      A16S
ATOM  27605  C5  U  A1307     250.420 112.888   3.095  1.00 71.35      A16S
ATOM  27606  C2* U  A1307     249.846 108.349   3.669  1.00 45.56      A16S
ATOM  27607  O2* U  A1307     249.944 107.001   3.252  1.00 45.56      A16S
ATOM  27608  C3* U  A1307     248.478 108.662   4.256  1.00 45.56      A16S
ATOM  27609  O3* U  A1307     247.965 107.610   5.050  1.00 45.56      A16S
ATOM  27610  P   U  A1308     248.055 107.730   6.642  1.00 55.41      A16S
ATOM  27611  O1P U  A1308     247.308 106.618   7.268  1.00 48.63      A16S
ATOM  27612  O2P U  A1308     247.720 109.137   6.974  1.00 48.63      A16S
ATOM  27613  O5* U  A1308     249.588 107.463   6.945  1.00 55.41      A16S
ATOM  27614  C5* U  A1308     250.135 106.160   6.739  1.00 55.41      A16S
ATOM  27615  C4* U  A1308     251.635 106.226   6.667  1.00 55.41      A16S
ATOM  27616  O4* U  A1308     252.026 107.148   5.615  1.00 55.41      A16S
ATOM  27617  C1* U  A1308     253.247 107.785   5.963  1.00 55.41      A16S
ATOM  27618  N1  U  A1308     253.029 109.239   6.024  1.00 48.63      A16S
ATOM  27619  C6  U  A1308     251.766 109.770   6.096  1.00 48.63      A16S
ATOM  27620  C2  U  A1308     254.145 110.061   6.012  1.00 48.63      A16S
ATOM  27621  O2  U  A1308     255.283 109.634   5.941  1.00 48.63      A16S
ATOM  27622  N3  U  A1308     253.877 111.404   6.086  1.00 48.63      A16S
ATOM  27623  C4  U  A1308     252.634 111.999   6.164  1.00 48.63      A16S
ATOM  27624  O4  U  A1308     252.548 113.232   6.227  1.00 48.63      A16S
ATOM  27625  C5  U  A1308     251.538 111.081   6.163  1.00 48.63      A16S
ATOM  27626  C2* U  A1308     253.685 107.213   7.308  1.00 55.41      A16S
ATOM  27627  O2* U  A1308     254.562 106.127   7.061  1.00 55.41      A16S
ATOM  27628  C3* U  A1308     252.353 106.762   7.889  1.00 55.41      A16S
ATOM  27629  O3* U  A1308     252.507 105.789   8.899  1.00 55.41      A16S
ATOM  27630  P   G  A1309     252.745 106.272  10.408  1.00 69.00      A16S
ATOM  27631  O1P G  A1309     252.469 105.103  11.281  1.00 54.62      A16S
ATOM  27632  O2P G  A1309     252.014 107.548  10.632  1.00 54.62      A16S
ATOM  27633  O5* G  A1309     254.303 106.607  10.440  1.00 69.00      A16S
ATOM  27634  C5* G  A1309     255.279 105.578  10.185  1.00 69.00      A16S
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ATOM  27635  C4* G   A1309     256.681 106.144  10.220  1.00 69.00      A16S
ATOM  27636  O4* G   A1309     256.880 107.054   9.112  1.00 69.00      A16S
ATOM  27637  C1* G   A1309     257.796 108.062   9.485  1.00 69.00      A16S
ATOM  27638  N9  G   A1309     257.133 109.352   9.383  1.00 54.62      A16S
ATOM  27639  C4  G   A1309     257.744 110.583   9.376  1.00 54.62      A16S
ATOM  27640  N3  G   A1309     259.069 110.808   9.445  1.00 54.62      A16S
ATOM  27641  C2  G   A1309     259.349 112.098   9.430  1.00 54.62      A16S
ATOM  27642  N2  G   A1309     260.619 112.502   9.483  1.00 54.62      A16S
ATOM  27643  N1  G   A1309     258.405 113.086   9.358  1.00 54.62      A16S
ATOM  27644  C6  G   A1309     257.037 112.875   9.279  1.00 54.62      A16S
ATOM  27645  O6  G   A1309     256.271 113.837   9.205  1.00 54.62      A16S
ATOM  27646  C5  G   A1309     256.723 111.497   9.293  1.00 54.62      A16S
ATOM  27647  N7  G   A1309     255.496 110.858   9.235  1.00 54.62      A16S
ATOM  27648  C8  G   A1309     255.788 109.588   9.291  1.00 54.62      A16S
ATOM  27649  C2* G   A1309     258.236 107.784  10.917  1.00 69.00      A16S
ATOM  27650  O2* G   A1309     259.454 107.072  10.848  1.00 69.00      A16S
ATOM  27651  C3* G   A1309     257.071 106.952  11.443  1.00 69.00      A16S
ATOM  27652  O3* G   A1309     257.446 106.114  12.531  1.00 69.00      A16S
ATOM  27653  P   G   A1310     257.103 106.566  14.036  1.00 84.02      A16S
ATOM  27654  O1P G   A1310     257.510 105.444  14.921  1.00 70.92      A16S
ATOM  27655  O2P G   A1310     255.711 107.070  14.081  1.00 70.92      A16S
ATOM  27656  O5* G   A1310     258.043 107.827  14.298  1.00 84.02      A16S
ATOM  27657  C5* G   A1310     259.467 107.677  14.359  1.00 84.02      A16S
ATOM  27658  C4* G   A1310     260.152 109.026  14.384  1.00 84.02      A16S
ATOM  27659  O4* G   A1310     259.824 109.776  13.184  1.00 84.02      A16S
ATOM  27660  C1* G   A1310     259.981 111.160  13.443  1.00 84.02      A16S
ATOM  27661  N9  G   A1310     258.799 111.891  12.993  1.00 70.92      A16S
ATOM  27662  C4  G   A1310     258.729 113.246  12.789  1.00 70.92      A16S
ATOM  27663  N3  G   A1310     259.750 114.113  12.910  1.00 70.92      A16S
ATOM  27664  C2  G   A1310     259.364 115.360  12.698  1.00 70.92      A16S
ATOM  27665  N2  G   A1310     260.254 116.361  12.773  1.00 70.92      A16S
ATOM  27666  N1  G   A1310     258.078 115.723  12.395  1.00 70.92      A16S
ATOM  27667  C6  G   A1310     257.012 114.847  12.271  1.00 70.92      A16S
ATOM  27668  O6  G   A1310     255.889 115.286  12.023  1.00 70.92      A16S
ATOM  27669  C5  G   A1310     257.414 113.504  12.481  1.00 70.92      A16S
ATOM  27670  N7  G   A1310     256.679 112.330  12.442  1.00 70.92      A16S
ATOM  27671  C8  G   A1310     257.543 111.397  12.739  1.00 70.92      A16S
ATOM  27672  C2* G   A1310     260.246 111.332  14.943  1.00 84.02      A16S
ATOM  27673  O2* G   A1310     261.623 111.594  15.130  1.00 84.02      A16S
ATOM  27674  C3* G   A1310     259.801 109.983  15.513  1.00 84.02      A16S
ATOM  27675  O3* G   A1310     260.487 109.662  16.729  1.00 84.02      A16S
ATOM  27676  P   G   A1311     259.891 110.163  18.147  1.00 71.55      A16S
ATOM  27677  O1P G   A1311     260.796 109.654  19.211  1.00 83.73      A16S
ATOM  27678  O2P G   A1311     258.447 109.827  18.205  1.00 83.73      A16S
ATOM  27679  O5* G   A1311     260.053 111.750  18.098  1.00 71.55      A16S
ATOM  27680  C5* G   A1311     261.362 112.329  18.142  1.00 71.55      A16S
ATOM  27681  C4* G   A1311     261.311 113.824  17.956  1.00 71.55      A16S
ATOM  27682  O4* G   A1311     260.837 114.160  16.628  1.00 71.55      A16S
ATOM  27683  C1* G   A1311     260.196 115.428  16.662  1.00 71.55      A16S
ATOM  27684  N9  G   A1311     258.802 115.275  16.251  1.00 83.73      A16S
ATOM  27685  C4  G   A1311     257.938 116.299  15.945  1.00 83.73      A16S
ATOM  27686  N3  G   A1311     258.240 117.612  15.935  1.00 83.73      A16S
ATOM  27687  C2  G   A1311     257.193 118.360  15.640  1.00 83.73      A16S
ATOM  27688  N2  G   A1311     257.318 119.685  15.601  1.00 83.73      A16S
ATOM  27689  N1  G   A1311     255.947 117.864  15.366  1.00 83.73      A16S
ATOM  27690  C6  G   A1311     255.606 116.516  15.365  1.00 83.73      A16S
ATOM  27691  O6  G   A1311     254.439 116.174  15.108  1.00 83.73      A16S
ATOM  27692  C5  G   A1311     256.729 115.694  15.687  1.00 83.73      A16S
ATOM  27693  N7  G   A1311     256.836 114.313  15.803  1.00 83.73      A16S
ATOM  27694  C8  G   A1311     258.083 114.111  16.130  1.00 83.73      A16S
ATOM  27695  C2* G   A1311     260.259 115.930  18.104  1.00 71.55      A16S
ATOM  27696  O2* G   A1311     261.365 116.798  18.273  1.00 71.55      A16S
ATOM  27697  C3* G   A1311     260.407 114.625  18.870  1.00 71.55      A16S
ATOM  27698  O3* G   A1311     260.940 114.826  20.164  1.00 71.55      A16S
ATOM  27699  P   G   A1312     259.972 114.669  21.441  1.00 71.43      A16S
ATOM  27700  O1P G   A1312     260.874 114.678  22.628  1.00 73.32      A16S
ATOM  27701  O2P G   A1312     259.097 113.489  21.211  1.00 73.32      A16S
ATOM  27702  O5* G   A1312     259.068 115.994  21.406  1.00 71.43      A16S
ATOM  27703  C5* G   A1312     259.669 117.276  21.646  1.00 71.43      A16S
ATOM  27704  C4* G   A1312     258.839 118.416  21.082  1.00 71.43      A16S
ATOM  27705  O4* G   A1312     258.348 118.111  19.752  1.00 71.43      A16S
ATOM  27706  C1* G   A1312     257.266 118.981  19.446  1.00 71.43      A16S
ATOM  27707  N9  G   A1312     256.089 118.214  19.042  1.00 73.32      A16S
ATOM  27708  C4  G   A1312     254.940 118.745  18.493  1.00 73.32      A16S
ATOM  27709  N3  G   A1312     254.730 120.046  18.201  1.00 73.32      A16S
ATOM  27710  C2  G   A1312     253.528 120.252  17.710  1.00 73.32      A16S
ATOM  27711  N2  G   A1312     253.155 121.483  17.369  1.00 73.32      A16S
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ATOM  27712  N1  G  A1312     252.605 119.266  17.517  1.00 73.32      A16S
ATOM  27713  C6  G  A1312     252.799 117.921  17.810  1.00 73.32      A16S
ATOM  27714  O6  G  A1312     251.894 117.110  17.602  1.00 73.32      A16S
ATOM  27715  C5  G  A1312     254.085 117.683  18.336  1.00 73.32      A16S
ATOM  27716  N7  G  A1312     254.683 116.501  18.749  1.00 73.32      A16S
ATOM  27717  C8  G  A1312     255.872 116.862  19.155  1.00 73.32      A16S
ATOM  27718  C2* G  A1312     256.940 119.761  20.715  1.00 71.43      A16S
ATOM  27719  O2* G  A1312     257.518 121.052  20.637  1.00 71.43      A16S
ATOM  27720  C3* G  A1312     257.579 118.889  21.788  1.00 71.43      A16S
ATOM  27721  O3* G  A1312     257.804 119.685  22.944  1.00 71.43      A16S
ATOM  27722  P   U  A1313     256.577 119.981  23.945  1.00 73.91      A16S
ATOM  27723  O1P U  A1313     257.152 120.555  25.188  1.00 64.22      A16S
ATOM  27724  O2P U  A1313     255.759 118.732  24.022  1.00 64.22      A16S
ATOM  27725  O5* U  A1313     255.734 121.119  23.210  1.00 73.91      A16S
ATOM  27726  C5* U  A1313     256.332 122.388  22.927  1.00 73.91      A16S
ATOM  27727  C4* U  A1313     255.311 123.351  22.373  1.00 73.91      A16S
ATOM  27728  O4* U  A1313     254.810 122.860  21.106  1.00 73.91      A16S
ATOM  27729  C1* U  A1313     253.452 123.253  20.937  1.00 73.91      A16S
ATOM  27730  N1  U  A1313     252.617 122.044  20.826  1.00 64.22      A16S
ATOM  27731  C6  U  A1313     253.127 120.793  21.102  1.00 64.22      A16S
ATOM  27732  C2  U  A1313     251.298 122.200  20.424  1.00 64.22      A16S
ATOM  27733  O2  U  A1313     250.788 123.295  20.197  1.00 64.22      A16S
ATOM  27734  N3  U  A1313     250.595 121.028  20.303  1.00 64.22      A16S
ATOM  27735  C4  U  A1313     251.058 119.750  20.538  1.00 64.22      A16S
ATOM  27736  O4  U  A1313     250.324 118.792  20.314  1.00 64.22      A16S
ATOM  27737  C5  U  A1313     252.411 119.676  20.974  1.00 64.22      A16S
ATOM  27738  C2* U  A1313     253.066 124.084  22.155  1.00 73.91      A16S
ATOM  27739  O2* U  A1313     253.229 125.462  21.883  1.00 73.91      A16S
ATOM  27740  C3* U  A1313     254.051 123.566  23.189  1.00 73.91      A16S
ATOM  27741  O3* U  A1313     254.187 124.481  24.245  1.00 73.91      A16S
ATOM  27742  P   C  A1314     253.280 124.284  25.544  1.00 90.97      A16S
ATOM  27743  O1P C  A1314     253.523 125.469  26.401  1.00 50.64      A16S
ATOM  27744  O2P C  A1314     253.549 122.904  26.067  1.00 50.64      A16S
ATOM  27745  O5* C  A1314     251.786 124.386  24.992  1.00 90.97      A16S
ATOM  27746  C5* C  A1314     251.279 125.652  24.533  1.00 90.97      A16S
ATOM  27747  C4* C  A1314     249.834 125.551  24.083  1.00 90.97      A16S
ATOM  27748  O4* C  A1314     249.710 124.675  22.930  1.00 90.97      A16S
ATOM  27749  C1* C  A1314     248.411 124.103  22.904  1.00 90.97      A16S
ATOM  27750  N1  C  A1314     248.521 122.636  23.025  1.00 50.64      A16S
ATOM  27751  C6  C  A1314     249.720 122.035  23.267  1.00 50.64      A16S
ATOM  27752  C2  C  A1314     247.356 121.858  22.900  1.00 50.64      A16S
ATOM  27753  O2  C  A1314     246.268 122.420  22.686  1.00 50.64      A16S
ATOM  27754  N3  C  A1314     247.441 120.522  23.023  1.00 50.64      A16S
ATOM  27755  C4  C  A1314     248.613 119.951  23.266  1.00 50.64      A16S
ATOM  27756  N4  C  A1314     248.641 118.623  23.389  1.00 50.64      A16S
ATOM  27757  C5  C  A1314     249.810 120.709  23.397  1.00 50.64      A16S
ATOM  27758  C2* C  A1314     247.647 124.673  24.094  1.00 90.97      A16S
ATOM  27759  O2* C  A1314     246.920 125.804  23.657  1.00 90.97      A16S
ATOM  27760  C3* C  A1314     248.782 125.029  25.048  1.00 90.97      A16S
ATOM  27761  O3* C  A1314     248.364 125.983  26.017  1.00 90.97      A16S
ATOM  27762  P   U  A1315     247.455 125.504  27.261  1.00105.87      A16S
ATOM  27763  O1P U  A1315     247.089 126.729  28.018  1.00 55.51      A16S
ATOM  27764  O2P U  A1315     248.068 124.342  27.975  1.00 55.51      A16S
ATOM  27765  O5* U  A1315     246.128 124.959  26.576  1.00105.87      A16S
ATOM  27766  C5* U  A1315     245.116 125.861  26.097  1.00105.87      A16S
ATOM  27767  C4* U  A1315     243.836 125.108  25.850  1.00105.87      A16S
ATOM  27768  O4* U  A1315     244.048 124.149  24.784  1.00105.87      A16S
ATOM  27769  C1* U  A1315     243.281 122.988  25.035  1.00105.87      A16S
ATOM  27770  N1  U  A1315     244.168 121.812  25.046  1.00 55.51      A16S
ATOM  27771  C6  U  A1315     245.369 121.819  25.701  1.00 55.51      A16S
ATOM  27772  C2  U  A1315     243.733 120.672  24.380  1.00 55.51      A16S
ATOM  27773  O2  U  A1315     242.701 120.633  23.729  1.00 55.51      A16S
ATOM  27774  N3  U  A1315     244.555 119.583  24.489  1.00 55.51      A16S
ATOM  27775  C4  U  A1315     245.751 119.520  25.149  1.00 55.51      A16S
ATOM  27776  O4  U  A1315     246.358 118.450  25.193  1.00 55.51      A16S
ATOM  27777  C5  U  A1315     246.157 120.744  25.768  1.00 55.51      A16S
ATOM  27778  C2* U  A1315     242.506 123.202  26.339  1.00105.87      A16S
ATOM  27779  O2* U  A1315     241.204 123.654  26.030  1.00105.87      A16S
ATOM  27780  C3* U  A1315     243.332 124.282  27.025  1.00105.87      A16S
ATOM  27781  O3* U  A1315     242.542 125.080  27.908  1.00105.87      A16S
ATOM  27782  P   G  A1316     242.662 124.882  29.503  1.00 76.04      A16S
ATOM  27783  O1P G  A1316     241.792 125.925  30.101  1.00 96.10      A16S
ATOM  27784  O2P G  A1316     244.099 124.818  29.881  1.00 96.10      A16S
ATOM  27785  O5* G  A1316     242.031 123.440  29.783  1.00 76.04      A16S
ATOM  27786  C5* G  A1316     240.627 123.181  29.558  1.00 76.04      A16S
ATOM  27787  C4* G  A1316     240.398 121.708  29.309  1.00 76.04      A16S
ATOM  27788  O4* G  A1316     241.245 121.283  28.213  1.00 76.04      A16S
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ATOM  27789  C1* G   A1316     241.659 119.945  28.419  1.00 76.04      A16S
ATOM  27790  N9  G   A1316     243.115 119.900  28.443  1.00 96.10      A16S
ATOM  27791  C4  G   A1316     243.890 118.793  28.209  1.00 96.10      A16S
ATOM  27792  N3  G   A1316     243.437 117.567  27.877  1.00 96.10      A16S
ATOM  27793  C2  G   A1316     244.420 116.701  27.725  1.00 96.10      A16S
ATOM  27794  N2  G   A1316     244.148 115.433  27.383  1.00 96.10      A16S
ATOM  27795  N1  G   A1316     245.742 117.012  27.896  1.00 96.10      A16S
ATOM  27796  C6  G   A1316     246.229 118.265  28.244  1.00 96.10      A16S
ATOM  27797  O6  G   A1316     247.444 118.434  28.383  1.00 96.10      A16S
ATOM  27798  C5  G   A1316     245.184 119.206  28.398  1.00 96.10      A16S
ATOM  27799  N7  G   A1316     245.227 120.555  28.723  1.00 96.10      A16S
ATOM  27800  C8  G   A1316     243.978 120.926  28.732  1.00 96.10      A16S
ATOM  27801  C2* G   A1316     241.077 119.459  29.746  1.00 76.04      A16S
ATOM  27802  O2* G   A1316     239.961 118.625  29.525  1.00 76.04      A16S
ATOM  27803  C3* G   A1316     240.764 120.774  30.450  1.00 76.04      A16S
ATOM  27804  O3* G   A1316     239.694 120.615  31.367  1.00 76.04      A16S
ATOM  27805  P   C   A1317     240.006 120.524  32.939  1.00 79.13      A16S
ATOM  27806  O1P C   A1317     240.842 121.724  33.258  1.00 75.67      A16S
ATOM  27807  O2P C   A1317     238.727 120.301  33.673  1.00 75.67      A16S
ATOM  27808  O5* C   A1317     240.892 119.207  33.099  1.00 79.13      A16S
ATOM  27809  C5* C   A1317     241.788 119.089  34.202  1.00 79.13      A16S
ATOM  27810  C4* C   A1317     242.075 117.647  34.513  1.00 79.13      A16S
ATOM  27811  O4* C   A1317     240.862 116.945  34.874  1.00 79.13      A16S
ATOM  27812  C1* C   A1317     241.032 115.559  34.618  1.00 79.13      A16S
ATOM  27813  N1  C   A1317     239.893 115.052  33.829  1.00 75.67      A16S
ATOM  27814  C6  C   A1317     239.046 115.904  33.177  1.00 75.67      A16S
ATOM  27815  C2  C   A1317     239.693 113.663  33.752  1.00 75.67      A16S
ATOM  27816  O2  C   A1317     240.476 112.904  34.341  1.00 75.67      A16S
ATOM  27817  N3  C   A1317     238.656 113.185  33.036  1.00 75.67      A16S
ATOM  27818  C4  C   A1317     237.837 114.026  32.404  1.00 75.67      A16S
ATOM  27819  N4  C   A1317     236.828 113.503  31.703  1.00 75.67      A16S
ATOM  27820  C5  C   A1317     238.015 115.438  32.459  1.00 75.67      A16S
ATOM  27821  C2* C   A1317     242.365 115.382  33.894  1.00 79.13      A16S
ATOM  27822  O2* C   A1317     243.331 114.905  34.809  1.00 79.13      A16S
ATOM  27823  C3* C   A1317     242.642 116.798  33.397  1.00 79.13      A16S
ATOM  27824  O3* C   A1317     244.024 117.033  33.193  1.00 79.13      A16S
ATOM  27825  P   A   A1318     244.566 117.257  31.702  1.00 72.98      A16S
ATOM  27826  O1P A   A1318     246.020 117.543  31.803  1.00 75.01      A16S
ATOM  27827  O2P A   A1318     243.666 118.238  31.037  1.00 75.01      A16S
ATOM  27828  O5* A   A1318     244.366 115.838  31.009  1.00 72.98      A16S
ATOM  27829  C5* A   A1318     244.875 114.646  31.624  1.00 72.98      A16S
ATOM  27830  C4* A   A1318     244.228 113.417  31.019  1.00 72.98      A16S
ATOM  27831  O4* A   A1318     242.792 113.479  31.213  1.00 72.98      A16S
ATOM  27832  C1* A   A1318     242.131 112.888  30.110  1.00 72.98      A16S
ATOM  27833  N9  A   A1318     241.273 113.907  29.500  1.00 75.01      A16S
ATOM  27834  C4  A   A1318     240.082 113.700  28.845  1.00 75.01      A16S
ATOM  27835  N3  A   A1318     239.473 112.527  28.609  1.00 75.01      A16S
ATOM  27836  C2  A   A1318     238.318 112.720  27.976  1.00 75.01      A16S
ATOM  27837  N1  A   A1318     237.746 113.866  27.586  1.00 75.01      A16S
ATOM  27838  C6  A   A1318     238.386 115.026  27.841  1.00 75.01      A16S
ATOM  27839  N6  A   A1318     237.810 116.170  27.468  1.00 75.01      A16S
ATOM  27840  C5  A   A1318     239.621 114.958  28.496  1.00 75.01      A16S
ATOM  27841  N7  A   A1318     240.516 115.938  28.897  1.00 75.01      A16S
ATOM  27842  C8  A   A1318     241.477 115.267  29.481  1.00 75.01      A16S
ATOM  27843  C2* A   A1318     243.206 112.333  29.171  1.00 72.98      A16S
ATOM  27844  O2* A   A1318     243.450 110.973  29.487  1.00 72.98      A16S
ATOM  27845  C3* A   A1318     244.406 113.201  29.523  1.00 72.98      A16S
ATOM  27846  O3* A   A1318     245.610 112.499  29.248  1.00 72.98      A16S
ATOM  27847  P   A   A1319     246.475 112.869  27.948  1.00 83.96      A16S
ATOM  27848  O1P A   A1319     247.600 111.904  27.898  1.00 40.03      A16S
ATOM  27849  O2P A   A1319     246.746 114.330  27.882  1.00 40.03      A16S
ATOM  27850  O5* A   A1319     245.537 112.535  26.711  1.00 83.96      A16S
ATOM  27851  C5* A   A1319     246.052 112.684  25.380  1.00 83.96      A16S
ATOM  27852  C4* A   A1319     245.089 112.122  24.376  1.00 83.96      A16S
ATOM  27853  O4* A   A1319     243.923 112.983  24.307  1.00 83.96      A16S
ATOM  27854  C1* A   A1319     243.736 113.431  22.986  1.00 83.96      A16S
ATOM  27855  N9  A   A1319     243.348 114.840  23.027  1.00 40.03      A16S
ATOM  27856  C4  A   A1319     242.178 115.349  22.523  1.00 40.03      A16S
ATOM  27857  N3  A   A1319     241.178 114.664  21.948  1.00 40.03      A16S
ATOM  27858  C2  A   A1319     240.222 115.486  21.547  1.00 40.03      A16S
ATOM  27859  N1  A   A1319     240.151 116.810  21.645  1.00 40.03      A16S
ATOM  27860  C6  A   A1319     241.163 117.472  22.228  1.00 40.03      A16S
ATOM  27861  N6  A   A1319     241.078 118.800  22.314  1.00 40.03      A16S
ATOM  27862  C5  A   A1319     242.247 116.717  22.704  1.00 40.03      A16S
ATOM  27863  N7  A   A1319     243.431 117.068  23.340  1.00 40.03      A16S
ATOM  27864  C8  A   A1319     244.043 115.920  23.518  1.00 40.03      A16S
ATOM  27865  C2* A   A1319     245.058 113.237  22.251  1.00 83.96      A16S
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ATOM  27866  O2*  A  A1319     244.848 113.027  20.869  1.00 83.96      A16S
ATOM  27867  C3*  A  A1319     245.664 112.038  22.970  1.00 83.96      A16S
ATOM  27868  O3*  A  A1319     245.352 110.781  22.397  1.00 83.96      A16S
ATOM  27869  P    C  A1320     246.400 109.580  22.579  1.00 81.15      A16S
ATOM  27870  O1P  C  A1320     246.356 109.184  24.009  1.00 90.33      A16S
ATOM  27871  O2P  C  A1320     247.684 110.024  21.974  1.00 90.33      A16S
ATOM  27872  O5*  C  A1320     245.842 108.349  21.741  1.00 81.15      A16S
ATOM  27873  C5*  C  A1320     246.761 107.379  21.208  1.00 81.15      A16S
ATOM  27874  C4*  C  A1320     246.053 106.093  20.868  1.00 81.15      A16S
ATOM  27875  O4*  C  A1320     245.788 105.314  22.058  1.00 81.15      A16S
ATOM  27876  C1*  C  A1320     244.581 104.593  21.889  1.00 81.15      A16S
ATOM  27877  N1   C  A1320     243.629 105.029  22.927  1.00 90.33      A16S
ATOM  27878  C6   C  A1320     243.648 106.313  23.401  1.00 90.33      A16S
ATOM  27879  C2   C  A1320     242.693 104.108  23.421  1.00 90.33      A16S
ATOM  27880  O2   C  A1320     242.684 102.952  22.973  1.00 90.33      A16S
ATOM  27881  N3   C  A1320     241.820 104.503  24.369  1.00 90.33      A16S
ATOM  27882  C4   C  A1320     241.850 105.756  24.825  1.00 90.33      A16S
ATOM  27883  N4   C  A1320     240.967 106.096  25.766  1.00 90.33      A16S
ATOM  27884  C5   C  A1320     242.785 106.715  24.338  1.00 90.33      A16S
ATOM  27885  C2*  C  A1320     244.064 104.880  20.477  1.00 81.15      A16S
ATOM  27886  O2*  C  A1320     244.515 103.864  19.604  1.00 81.15      A16S
ATOM  27887  C3*  C  A1320     244.709 106.226  20.182  1.00 81.15      A16S
ATOM  27888  O3*  C  A1320     244.862 106.472  18.798  1.00 81.15      A16S
ATOM  27889  P    C  A1321     243.767 107.358  18.031  1.00 82.64      A16S
ATOM  27890  O1P  C  A1321     244.207 107.417  16.614  1.00 59.43      A16S
ATOM  27891  O2P  C  A1321     243.497 108.622  18.762  1.00 59.43      A16S
ATOM  27892  O5*  C  A1321     242.470 106.448  18.111  1.00 82.64      A16S
ATOM  27893  C5*  C  A1321     242.489 105.132  17.550  1.00 82.64      A16S
ATOM  27894  C4*  C  A1321     241.234 104.392  17.907  1.00 82.64      A16S
ATOM  27895  O4*  C  A1321     241.216 104.130  19.332  1.00 82.64      A16S
ATOM  27896  C1*  C  A1321     239.882 104.188  19.801  1.00 82.64      A16S
ATOM  27897  N1   C  A1321     239.768 105.290  20.780  1.00 59.43      A16S
ATOM  27898  C6   C  A1321     240.080 106.579  20.431  1.00 59.43      A16S
ATOM  27899  C2   C  A1321     239.294 105.005  22.066  1.00 59.43      A16S
ATOM  27900  O2   C  A1321     239.093 103.823  22.387  1.00 59.43      A16S
ATOM  27901  N3   C  A1321     239.079 106.024  22.930  1.00 59.43      A16S
ATOM  27902  C4   C  A1321     239.351 107.277  22.566  1.00 59.43      A16S
ATOM  27903  N4   C  A1321     239.102 108.245  23.440  1.00 59.43      A16S
ATOM  27904  C5   C  A1321     239.887 107.591  21.285  1.00 59.43      A16S
ATOM  27905  C2*  C  A1321     238.975 104.425  18.589  1.00 82.64      A16S
ATOM  27906  O2*  C  A1321     238.526 103.184  18.074  1.00 82.64      A16S
ATOM  27907  C3*  C  A1321     239.930 105.125  17.636  1.00 82.64      A16S
ATOM  27908  O3*  C  A1321     239.520 105.034  16.282  1.00 82.64      A16S
ATOM  27909  P    C  A1322     238.842 106.305  15.569  1.00 63.37      A16S
ATOM  27910  O1P  C  A1322     238.937 106.077  14.102  1.00 93.37      A16S
ATOM  27911  O2P  C  A1322     237.521 106.550  16.183  1.00 93.37      A16S
ATOM  27912  O5*  C  A1322     239.768 107.538  15.957  1.00 63.37      A16S
ATOM  27913  C5*  C  A1322     239.648 108.773  15.241  1.00 63.37      A16S
ATOM  27914  C4*  C  A1322     239.642 109.949  16.190  1.00 63.37      A16S
ATOM  27915  O4*  C  A1322     238.492 109.856  17.073  1.00 63.37      A16S
ATOM  27916  C1*  C  A1322     238.925 109.983  18.412  1.00 63.37      A16S
ATOM  27917  N1   C  A1322     238.025 109.211  19.288  1.00 93.37      A16S
ATOM  27918  C6   C  A1322     237.489 108.022  18.879  1.00 93.37      A16S
ATOM  27919  C2   C  A1322     237.708 109.729  20.551  1.00 93.37      A16S
ATOM  27920  O2   C  A1322     238.233 110.788  20.923  1.00 93.37      A16S
ATOM  27921  N3   C  A1322     236.843 109.062  21.337  1.00 93.37      A16S
ATOM  27922  C4   C  A1322     236.305 107.918  20.917  1.00 93.37      A16S
ATOM  27923  N4   C  A1322     235.428 107.312  21.720  1.00 93.37      A16S
ATOM  27924  C5   C  A1322     236.633 107.349  19.654  1.00 93.37      A16S
ATOM  27925  C2*  C  A1322     240.405 109.584  18.423  1.00 63.37      A16S
ATOM  27926  O2*  C  A1322     241.068 110.169  19.534  1.00 63.37      A16S
ATOM  27927  C3*  C  A1322     240.874 110.141  17.077  1.00 63.37      A16S
ATOM  27928  O3*  C  A1322     241.095 111.549  17.228  1.00 63.37      A16S
ATOM  27929  P    G  A1323     242.260 112.295  16.395  1.00 53.23      A16S
ATOM  27930  O1P  G  A1323     242.049 112.059  14.941  1.00 82.31      A16S
ATOM  27931  O2P  G  A1323     243.562 111.917  17.018  1.00 82.31      A16S
ATOM  27932  O5*  G  A1323     241.962 113.844  16.656  1.00 53.23      A16S
ATOM  27933  C5*  G  A1323     240.618 114.349  16.541  1.00 53.23      A16S
ATOM  27934  C4*  G  A1323     240.539 115.795  16.964  1.00 53.23      A16S
ATOM  27935  O4*  G  A1323     240.807 115.920  18.381  1.00 53.23      A16S
ATOM  27936  C1*  G  A1323     241.456 117.159  18.643  1.00 53.23      A16S
ATOM  27937  N9   G  A1323     242.758 116.884  19.257  1.00 82.31      A16S
ATOM  27938  C4   G  A1323     243.607 117.803  19.833  1.00 82.31      A16S
ATOM  27939  N3   G  A1323     243.390 119.132  19.933  1.00 82.31      A16S
ATOM  27940  C2   G  A1323     244.391 119.750  20.541  1.00 82.31      A16S
ATOM  27941  N2   G  A1323     244.346 121.076  20.727  1.00 82.31      A16S
ATOM  27942  N1   G  A1323     245.510 119.114  21.010  1.00 82.31      A16S
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ATOM  27943  C6  G  A1323     245.756 117.750  20.915  1.00 82.31      A16S
ATOM  27944  O6  G  A1323     246.810 117.279  21.368  1.00 82.31      A16S
ATOM  27945  C5  G  A1323     244.693 117.074  20.268  1.00 82.31      A16S
ATOM  27946  N7  G  A1323     244.536 115.728  19.970  1.00 82.31      A16S
ATOM  27947  C8  G  A1323     243.379 115.661  19.374  1.00 82.31      A16S
ATOM  27948  C2* G  A1323     241.571 117.905  17.314  1.00 53.23      A16S
ATOM  27949  O2* G  A1323     240.493 118.812  17.189  1.00 53.23      A16S
ATOM  27950  C3* G  A1323     241.521 116.750  16.318  1.00 53.23      A16S
ATOM  27951  O3* G  A1323     241.119 117.128  15.017  1.00 53.23      A16S
ATOM  27952  P   A  A1324     242.174 117.027  13.810  1.00 63.83      A16S
ATOM  27953  O1P A  A1324     241.398 116.842  12.554  1.00 74.36      A16S
ATOM  27954  O2P A  A1324     243.228 116.036  14.178  1.00 74.36      A16S
ATOM  27955  O5* A  A1324     242.805 118.483  13.766  1.00 63.83      A16S
ATOM  27956  C5* A  A1324     241.954 119.625  13.589  1.00 63.83      A16S
ATOM  27957  C4* A  A1324     242.540 120.830  14.278  1.00 63.83      A16S
ATOM  27958  O4* A  A1324     242.717 120.539  15.687  1.00 63.83      A16S
ATOM  27959  C1* A  A1324     243.879 121.189  16.168  1.00 63.83      A16S
ATOM  27960  N9  A  A1324     244.810 120.164  16.637  1.00 74.36      A16S
ATOM  27961  C4  A  A1324     245.854 120.340  17.514  1.00 74.36      A16S
ATOM  27962  N3  A  A1324     246.240 121.483  18.109  1.00 74.36      A16S
ATOM  27963  C2  A  A1324     247.272 121.264  18.910  1.00 74.36      A16S
ATOM  27964  N1  A  A1324     247.919 120.120  19.164  1.00 74.36      A16S
ATOM  27965  C6  A  A1324     247.509 118.994  18.545  1.00 74.36      A16S
ATOM  27966  N6  A  A1324     248.150 117.852  18.793  1.00 74.36      A16S
ATOM  27967  C5  A  A1324     246.424 119.091  17.675  1.00 74.36      A16S
ATOM  27968  N7  A  A1324     245.764 118.145  16.905  1.00 74.36      A16S
ATOM  27969  C8  A  A1324     244.820 118.830  16.308  1.00 74.36      A16S
ATOM  27970  C2* A  A1324     244.445 122.015  15.017  1.00 63.83      A16S
ATOM  27971  O2* A  A1324     243.894 123.318  15.074  1.00 63.83      A16S
ATOM  27972  C3* A  A1324     243.922 121.248  13.816  1.00 63.83      A16S
ATOM  27973  O3* A  A1324     243.873 122.047  12.654  1.00 63.83      A16S
ATOM  27974  P   C  A1325     245.096 121.992  11.622  1.00 59.04      A16S
ATOM  27975  O1P C  A1325     244.747 122.864  10.471  1.00 54.92      A16S
ATOM  27976  O2P C  A1325     245.459 120.567  11.394  1.00 54.92      A16S
ATOM  27977  O5* C  A1325     246.296 122.652  12.430  1.00 59.04      A16S
ATOM  27978  C5* C  A1325     246.189 123.987  12.966  1.00 59.04      A16S
ATOM  27979  C4* C  A1325     247.402 124.308  13.811  1.00 59.04      A16S
ATOM  27980  O4* C  A1325     247.409 123.504  15.020  1.00 59.04      A16S
ATOM  27981  C1* C  A1325     248.740 123.194  15.380  1.00 59.04      A16S
ATOM  27982  N1  C  A1325     248.884 121.729  15.439  1.00 54.92      A16S
ATOM  27983  C6  C  A1325     248.089 120.918  14.682  1.00 54.92      A16S
ATOM  27984  C2  C  A1325     249.855 121.168  16.298  1.00 54.92      A16S
ATOM  27985  O2  C  A1325     250.592 121.921  16.961  1.00 54.92      A16S
ATOM  27986  N3  C  A1325     249.970 119.821  16.378  1.00 54.92      A16S
ATOM  27987  C4  C  A1325     249.182 119.042  15.636  1.00 54.92      A16S
ATOM  27988  N4  C  A1325     249.331 117.714  15.744  1.00 54.92      A16S
ATOM  27989  C5  C  A1325     248.204 119.585  14.748  1.00 54.92      A16S
ATOM  27990  C2* C  A1325     249.660 123.864  14.365  1.00 59.04      A16S
ATOM  27991  O2* C  A1325     250.016 125.130  14.874  1.00 59.04      A16S
ATOM  27992  C3* C  A1325     248.738 124.005  13.164  1.00 59.04      A16S
ATOM  27993  O3* C  A1325     249.127 125.036  12.268  1.00 59.04      A16S
ATOM  27994  P   C  A1326     249.993 124.661  10.967  1.00 58.76      A16S
ATOM  27995  O1P C  A1326     249.705 125.705   9.952  1.00 45.71      A16S
ATOM  27996  O2P C  A1326     249.773 123.224  10.640  1.00 45.71      A16S
ATOM  27997  O5* C  A1326     251.502 124.769  11.464  1.00 58.76      A16S
ATOM  27998  C5* C  A1326     251.936 125.867  12.292  1.00 58.76      A16S
ATOM  27999  C4* C  A1326     253.213 125.506  13.014  1.00 58.76      A16S
ATOM  28000  O4* C  A1326     252.969 124.494  14.022  1.00 58.76      A16S
ATOM  28001  C1* C  A1326     254.120 123.689  14.164  1.00 58.76      A16S
ATOM  28002  N1  C  A1326     253.736 122.266  14.114  1.00 45.71      A16S
ATOM  28003  C6  C  A1326     252.526 121.869  13.612  1.00 45.71      A16S
ATOM  28004  C2  C  A1326     254.638 121.308  14.625  1.00 45.71      A16S
ATOM  28005  O2  C  A1326     255.747 121.684  15.034  1.00 45.71      A16S
ATOM  28006  N3  C  A1326     254.276 120.000  14.655  1.00 45.71      A16S
ATOM  28007  C4  C  A1326     253.078 119.629  14.195  1.00 45.71      A16S
ATOM  28008  N4  C  A1326     252.749 118.336  14.286  1.00 45.71      A16S
ATOM  28009  C5  C  A1326     252.159 120.572  13.632  1.00 45.71      A16S
ATOM  28010  C2* C  A1326     255.156 124.137  13.133  1.00 58.76      A16S
ATOM  28011  O2* C  A1326     256.104 124.960  13.782  1.00 58.76      A16S
ATOM  28012  C3* C  A1326     254.299 124.911  12.140  1.00 58.76      A16S
ATOM  28013  O3* C  A1326     255.018 125.944  11.488  1.00 58.76      A16S
ATOM  28014  P   C  A1327     255.672 125.664  10.054  1.00 64.42      A16S
ATOM  28015  O1P C  A1327     256.328 126.933   9.640  1.00 59.45      A16S
ATOM  28016  O2P C  A1327     254.641 125.057   9.174  1.00 59.45      A16S
ATOM  28017  O5* C  A1327     256.796 124.581  10.383  1.00 64.42      A16S
ATOM  28018  C5* C  A1327     258.031 125.005  10.981  1.00 64.42      A16S
ATOM  28019  C4* C  A1327     258.965 123.843  11.198  1.00 64.42      A16S
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ATOM  28020  O4*  C    A1327     258.491 122.999  12.273  1.00 64.42      A16S
ATOM  28021  C1*  C    A1327     258.980 121.685  12.084  1.00 64.42      A16S
ATOM  28022  N1   C    A1327     257.860 120.726  12.070  1.00 59.45      A16S
ATOM  28023  C6   C    A1327     256.606 121.088  11.649  1.00 59.45      A16S
ATOM  28024  C2   C    A1327     258.114 119.401  12.478  1.00 59.45      A16S
ATOM  28025  O2   C    A1327     259.245 119.104  12.901  1.00 59.45      A16S
ATOM  28026  N3   C    A1327     257.122 118.482  12.406  1.00 59.45      A16S
ATOM  28027  C4   C    A1327     255.913 118.841  11.973  1.00 59.45      A16S
ATOM  28028  N4   C    A1327     254.979 117.895  11.913  1.00 59.45      A16S
ATOM  28029  C5   C    A1327     255.614 120.187  11.584  1.00 59.45      A16S
ATOM  28030  C2*  C    A1327     259.761 121.663  10.771  1.00 64.42      A16S
ATOM  28031  O2*  C    A1327     261.133 121.814  11.061  1.00 64.42      A16S
ATOM  28032  C3*  C    A1327     259.198 122.881  10.049  1.00 64.42      A16S
ATOM  28033  O3*  C    A1327     260.117 123.393   9.091  1.00 64.42      A16S
ATOM  28034  P    C    A1328     260.248 122.683   7.647  1.00 47.81      A16S
ATOM  28035  O1P  C    A1328     261.256 123.485   6.895  1.00 53.05      A16S
ATOM  28036  O2P  C    A1328     258.884 122.479   7.062  1.00 53.05      A16S
ATOM  28037  O5*  C    A1328     260.886 121.255   7.985  1.00 47.81      A16S
ATOM  28038  C5*  C    A1328     262.242 121.162   8.453  1.00 47.81      A16S
ATOM  28039  C4*  C    A1328     262.647 119.724   8.655  1.00 47.81      A16S
ATOM  28040  O4*  C    A1328     261.886 119.127   9.732  1.00 47.81      A16S
ATOM  28041  C1*  C    A1328     261.682 117.746   9.469  1.00 47.81      A16S
ATOM  28042  N1   C    A1328     260.233 117.499   9.359  1.00 53.05      A16S
ATOM  28043  C6   C    A1328     259.378 118.512   9.014  1.00 53.05      A16S
ATOM  28044  C2   C    A1328     259.737 116.198   9.579  1.00 53.05      A16S
ATOM  28045  O2   C    A1328     260.517 115.305   9.933  1.00 53.05      A16S
ATOM  28046  N3   C    A1328     258.418 115.954   9.399  1.00 53.05      A16S
ATOM  28047  C4   C    A1328     257.602 116.944   9.023  1.00 53.05      A16S
ATOM  28048  N4   C    A1328     256.319 116.653   8.813  1.00 53.05      A16S
ATOM  28049  C5   C    A1328     258.070 118.281   8.835  1.00 53.05      A16S
ATOM  28050  C2*  C    A1328     262.391 117.420   8.153  1.00 47.81      A16S
ATOM  28051  O2*  C    A1328     263.659 116.849   8.414  1.00 47.81      A16S
ATOM  28052  C3*  C    A1328     262.434 118.792   7.485  1.00 47.81      A16S
ATOM  28053  O3*  C    A1328     263.462 118.911   6.529  1.00 47.81      A16S
ATOM  28054  P    A    A1329     263.145 118.590   4.995  1.00 63.19      A16S
ATOM  28055  O1P  A    A1329     264.421 118.732   4.250  1.00 65.81      A16S
ATOM  28056  O2P  A    A1329     261.969 119.408   4.585  1.00 65.81      A16S
ATOM  28057  O5*  A    A1329     262.773 117.037   5.027  1.00 63.19      A16S
ATOM  28058  C5*  A    A1329     263.802 116.065   5.285  1.00 63.19      A16S
ATOM  28059  C4*  A    A1329     263.234 114.665   5.415  1.00 63.19      A16S
ATOM  28060  O4*  A    A1329     262.398 114.561   6.601  1.00 63.19      A16S
ATOM  28061  C1*  A    A1329     261.347 113.633   6.368  1.00 63.19      A16S
ATOM  28062  N9   A    A1329     260.078 114.364   6.308  1.00 65.81      A16S
ATOM  28063  C4   A    A1329     258.826 113.795   6.236  1.00 65.81      A16S
ATOM  28064  N3   A    A1329     258.520 112.485   6.270  1.00 65.81      A16S
ATOM  28065  C2   A    A1329     257.207 112.309   6.131  1.00 65.81      A16S
ATOM  28066  N1   A    A1329     256.241 113.222   5.972  1.00 65.81      A16S
ATOM  28067  C6   A    A1329     256.587 114.530   5.940  1.00 65.81      A16S
ATOM  28068  N6   A    A1329     255.634 115.446   5.760  1.00 65.81      A16S
ATOM  28069  C5   A    A1329     257.942 114.850   6.085  1.00 65.81      A16S
ATOM  28070  N7   A    A1329     258.614 116.065   6.101  1.00 65.81      A16S
ATOM  28071  C8   A    A1329     259.873 115.725   6.246  1.00 65.81      A16S
ATOM  28072  C2*  A    A1329     261.595 113.022   4.992  1.00 63.19      A16S
ATOM  28073  O2*  A    A1329     262.340 111.831   5.128  1.00 63.19      A16S
ATOM  28074  C3*  A    A1329     262.350 114.146   4.298  1.00 63.19      A16S
ATOM  28075  O3*  A    A1329     263.034 113.721   3.130  1.00 63.19      A16S
ATOM  28076  P    U    A1330     262.355 113.995   1.701  1.00 68.95      A16S
ATOM  28077  O1P  U    A1330     263.299 113.736   0.598  1.00 44.74      A16S
ATOM  28078  O2P  U    A1330     261.699 115.324   1.785  1.00 44.74      A16S
ATOM  28079  O5*  U    A1330     261.217 112.890   1.628  1.00 68.95      A16S
ATOM  28080  C5*  U    A1330     261.495 111.527   1.975  1.00 68.95      A16S
ATOM  28081  C4*  U    A1330     260.210 110.733   2.017  1.00 68.95      A16S
ATOM  28082  O4*  U    A1330     259.362 111.248   3.075  1.00 68.95      A16S
ATOM  28083  C1*  U    A1330     258.005 111.184   2.674  1.00 68.95      A16S
ATOM  28084  N1   U    A1330     257.451 112.547   2.693  1.00 44.74      A16S
ATOM  28085  C6   U    A1330     258.218 113.634   2.362  1.00 44.74      A16S
ATOM  28086  C2   U    A1330     256.120 112.702   3.058  1.00 44.74      A16S
ATOM  28087  O2   U    A1330     255.396 111.765   3.365  1.00 44.74      A16S
ATOM  28088  N3   U    A1330     255.665 113.997   3.056  1.00 44.74      A16S
ATOM  28089  C4   U    A1330     256.384 115.130   2.744  1.00 44.74      A16S
ATOM  28090  O4   U    A1330     255.859 116.238   2.888  1.00 44.74      A16S
ATOM  28091  C5   U    A1330     257.745 114.884   2.373  1.00 44.74      A16S
ATOM  28092  C2*  U    A1330     257.953 110.523   1.295  1.00 68.95      A16S
ATOM  28093  O2*  U    A1330     257.713 109.137   1.450  1.00 68.95      A16S
ATOM  28094  C3*  U    A1330     259.350 110.816   0.765  1.00 68.95      A16S
ATOM  28095  O3*  U    A1330     259.766 109.882  -0.220  1.00 68.95      A16S
ATOM  28096  P    G    A1331     260.168 110.406  -1.685  1.00 70.21      A16S
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ATOM  28097  O1P G   A1331     260.461 109.179  -2.470  1.00 80.85      A16S
ATOM  28098  O2P G   A1331     261.184 111.480  -1.590  1.00 80.85      A16S
ATOM  28099  O5* G   A1331     258.842 111.084  -2.234  1.00 70.21      A16S
ATOM  28100  C5* G   A1331     257.587 110.440  -2.045  1.00 70.21      A16S
ATOM  28101  C4* G   A1331     256.469 111.439  -2.094  1.00 70.21      A16S
ATOM  28102  O4* G   A1331     256.723 112.517  -1.175  1.00 70.21      A16S
ATOM  28103  C1* G   A1331     255.852 113.559  -1.506  1.00 70.21      A16S
ATOM  28104  N9  G   A1331     256.358 114.845  -1.038  1.00 80.85      A16S
ATOM  28105  C4  G   A1331     255.581 115.829  -0.479  1.00 80.85      A16S
ATOM  28106  N3  G   A1331     254.247 115.761  -0.280  1.00 80.85      A16S
ATOM  28107  C2  G   A1331     253.771 116.861   0.269  1.00 80.85      A16S
ATOM  28108  N2  G   A1331     252.460 116.957   0.529  1.00 80.85      A16S
ATOM  28109  N1  G   A1331     254.543 117.948   0.602  1.00 80.85      A16S
ATOM  28110  C6  G   A1331     255.916 118.042   0.409  1.00 80.85      A16S
ATOM  28111  O6  G   A1331     256.512 119.073   0.744  1.00 80.85      A16S
ATOM  28112  C5  G   A1331     256.445 116.857  -0.184  1.00 80.85      A16S
ATOM  28113  N7  G   A1331     257.745 116.524  -0.542  1.00 80.85      A16S
ATOM  28114  C8  G   A1331     257.644 115.323  -1.046  1.00 80.85      A16S
ATOM  28115  C2* G   A1331     255.425 113.395  -2.966  1.00 70.21      A16S
ATOM  28116  O2* G   A1331     254.045 113.116  -2.897  1.00 70.21      A16S
ATOM  28117  C3* G   A1331     256.203 112.150  -3.412  1.00 70.21      A16S
ATOM  28118  O3* G   A1331     255.379 111.248  -4.163  1.00 70.21      A16S
ATOM  28119  P   A   A1332     254.783 111.653  -5.606  1.00 66.14      A16S
ATOM  28120  O1P A   A1332     255.821 111.348  -6.603  1.00 46.60      A16S
ATOM  28121  O2P A   A1332     254.144 112.985  -5.623  1.00 46.60      A16S
ATOM  28122  O5* A   A1332     253.613 110.593  -5.779  1.00 66.14      A16S
ATOM  28123  C5* A   A1332     253.719 109.263  -5.217  1.00 66.14      A16S
ATOM  28124  C4* A   A1332     252.346 108.734  -4.869  1.00 66.14      A16S
ATOM  28125  O4* A   A1332     251.874 109.346  -3.648  1.00 66.14      A16S
ATOM  28126  C1* A   A1332     250.493 109.640  -3.760  1.00 66.14      A16S
ATOM  28127  N9  A   A1332     250.340 111.091  -3.671  1.00 46.60      A16S
ATOM  28128  C4  A   A1332     249.174 111.806  -3.776  1.00 46.60      A16S
ATOM  28129  N3  A   A1332     247.938 111.323  -3.976  1.00 46.60      A16S
ATOM  28130  C2  A   A1332     247.061 112.316  -4.038  1.00 46.60      A16S
ATOM  28131  N1  A   A1332     247.263 113.638  -3.927  1.00 46.60      A16S
ATOM  28132  C6  A   A1332     248.513 114.084  -3.718  1.00 46.60      A16S
ATOM  28133  N6  A   A1332     248.707 115.391  -3.592  1.00 46.60      A16S
ATOM  28134  C5  A   A1332     249.534 113.137  -3.641  1.00 46.60      A16S
ATOM  28135  N7  A   A1332     250.901 113.258  -3.452  1.00 46.60      A16S
ATOM  28136  C8  A   A1332     251.331 112.021  -3.474  1.00 46.60      A16S
ATOM  28137  C2* A   A1332     250.000 109.073  -5.092  1.00 66.14      A16S
ATOM  28138  O2* A   A1332     249.462 107.780  -4.891  1.00 66.14      A16S
ATOM  28139  C3* A   A1332     251.283 109.047  -5.907  1.00 66.14      A16S
ATOM  28140  O3* A   A1332     251.261 108.048  -6.906  1.00 66.14      A16S
ATOM  28141  P   A   A1333     251.144 108.471  -8.444  1.00 54.92      A16S
ATOM  28142  O1P A   A1333     251.471 107.262  -9.250  1.00 48.58      A16S
ATOM  28143  O2P A   A1333     251.910 109.727  -8.646  1.00 48.58      A16S
ATOM  28144  O5* A   A1333     249.603 108.820  -8.615  1.00 54.92      A16S
ATOM  28145  C5* A   A1333     248.582 107.825  -8.407  1.00 54.92      A16S
ATOM  28146  C4* A   A1333     247.227 108.476  -8.450  1.00 54.92      A16S
ATOM  28147  O4* A   A1333     247.097 109.359  -7.310  1.00 54.92      A16S
ATOM  28148  C1* A   A1333     246.362 110.509  -7.687  1.00 54.92      A16S
ATOM  28149  N9  A   A1333     247.144 111.706  -7.394  1.00 48.58      A16S
ATOM  28150  C4  A   A1333     246.633 112.976  -7.300  1.00 48.58      A16S
ATOM  28151  N3  A   A1333     245.351 113.351  -7.453  1.00 48.58      A16S
ATOM  28152  C2  A   A1333     245.228 114.666  -7.299  1.00 48.58      A16S
ATOM  28153  N1  A   A1333     246.171 115.581  -7.028  1.00 48.58      A16S
ATOM  28154  C6  A   A1333     247.447 115.162  -6.883  1.00 48.58      A16S
ATOM  28155  N6  A   A1333     248.387 116.064  -6.621  1.00 48.58      A16S
ATOM  28156  C5  A   A1333     247.706 113.794  -7.022  1.00 48.58      A16S
ATOM  28157  N7  A   A1333     248.873 113.055  -6.934  1.00 48.58      A16S
ATOM  28158  C8  A   A1333     248.486 111.825  -7.163  1.00 48.58      A16S
ATOM  28159  C2* A   A1333     245.994 110.390  -9.165  1.00 54.92      A16S
ATOM  28160  O2* A   A1333     244.657 109.955  -9.262  1.00 54.92      A16S
ATOM  28161  C3* A   A1333     247.005 109.367  -9.664  1.00 54.92      A16S
ATOM  28162  O3* A   A1333     246.504 108.620 -10.768  1.00 54.92      A16S
ATOM  28163  P   G   A1334     246.685 109.183 -12.270  1.00 36.90      A16S
ATOM  28164  O1P G   A1334     245.752 108.391 -13.127  1.00 59.14      A16S
ATOM  28165  O2P G   A1334     248.152 109.207 -12.600  1.00 59.14      A16S
ATOM  28166  O5* G   A1334     246.179 110.701 -12.201  1.00 36.90      A16S
ATOM  28167  C5* G   A1334     244.788 111.013 -12.064  1.00 36.90      A16S
ATOM  28168  C4* G   A1334     244.603 112.476 -11.749  1.00 36.90      A16S
ATOM  28169  O4* G   A1334     245.349 112.801 -10.555  1.00 36.90      A16S
ATOM  28170  C1* G   A1334     245.876 114.114 -10.665  1.00 36.90      A16S
ATOM  28171  N9  G   A1334     247.330 114.029 -10.522  1.00 59.14      A16S
ATOM  28172  C4  G   A1334     248.221 115.074 -10.368  1.00 59.14      A16S
ATOM  28173  N3  G   A1334     247.914 116.391 -10.344  1.00 59.14      A16S
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ATOM  28174  C2  G  A1334     248.988 117.148 -10.184  1.00 59.14      A16S
ATOM  28175  N2  G  A1334     248.864 118.475 -10.146  1.00 59.14      A16S
ATOM  28176  N1  G  A1334     250.263 116.654 -10.056  1.00 59.14      A16S
ATOM  28177  C6  G  A1334     250.605 115.304 -10.087  1.00 59.14      A16S
ATOM  28178  O6  G  A1334     251.792 114.959  -9.986  1.00 59.14      A16S
ATOM  28179  C5  G  A1334     249.460 114.480 -10.254  1.00 59.14      A16S
ATOM  28180  N7  G  A1334     249.357 113.097 -10.344  1.00 59.14      A16S
ATOM  28181  C8  G  A1334     248.082 112.876 -10.501  1.00 59.14      A16S
ATOM  28182  C2* G  A1334     245.397 114.706 -11.996  1.00 36.90      A16S
ATOM  28183  O2* G  A1334     244.244 115.499 -11.815  1.00 36.90      A16S
ATOM  28184  C3* G  A1334     245.088 113.456 -12.803  1.00 36.90      A16S
ATOM  28185  O3* G  A1334     244.070 113.734 -13.751  1.00 36.90      A16S
ATOM  28186  P   C  A1335     244.384 113.560 -15.308  1.00 61.56      A16S
ATOM  28187  O1P C  A1335     243.215 113.977 -16.112  1.00 53.72      A16S
ATOM  28188  O2P C  A1335     244.931 112.194 -15.465  1.00 53.72      A16S
ATOM  28189  O5* C  A1335     245.526 114.626 -15.572  1.00 61.56      A16S
ATOM  28190  C5* C  A1335     245.215 116.013 -15.618  1.00 61.56      A16S
ATOM  28191  C4* C  A1335     246.022 116.665 -16.696  1.00 61.56      A16S
ATOM  28192  O4* C  A1335     247.406 116.463 -16.404  1.00 61.56      A16S
ATOM  28193  C1* C  A1335     248.131 116.429 -17.604  1.00 61.56      A16S
ATOM  28194  N1  C  A1335     249.265 115.513 -17.403  1.00 53.72      A16S
ATOM  28195  C6  C  A1335     249.070 114.254 -16.912  1.00 53.72      A16S
ATOM  28196  C2  C  A1335     250.556 115.971 -17.674  1.00 53.72      A16S
ATOM  28197  O2  C  A1335     250.709 117.114 -18.141  1.00 53.72      A16S
ATOM  28198  N3  C  A1335     251.608 115.168 -17.414  1.00 53.72      A16S
ATOM  28199  C4  C  A1335     251.411 113.957 -16.894  1.00 53.72      A16S
ATOM  28200  N4  C  A1335     252.486 113.215 -16.607  1.00 53.72      A16S
ATOM  28201  C5  C  A1335     250.106 113.455 -16.636  1.00 53.72      A16S
ATOM  28202  C2* C  A1335     247.162 116.199 -18.774  1.00 61.56      A16S
ATOM  28203  O2* C  A1335     247.246 117.231 -19.739  1.00 61.56      A16S
ATOM  28204  C3* C  A1335     245.790 116.110 -18.090  1.00 61.56      A16S
ATOM  28205  O3* C  A1335     244.872 117.065 -18.612  1.00 61.56      A16S
ATOM  28206  P   C  A1336     244.150 116.835 -20.021  1.00 44.31      A16S
ATOM  28207  O1P C  A1336     244.222 115.381 -20.360  1.00 75.05      A16S
ATOM  28208  O2P C  A1336     244.658 117.848 -20.982  1.00 75.05      A16S
ATOM  28209  O5* C  A1336     242.652 117.234 -19.697  1.00 44.31      A16S
ATOM  28210  C5* C  A1336     241.845 116.385 -18.860  1.00 44.31      A16S
ATOM  28211  C4* C  A1336     240.763 117.183 -18.181  1.00 44.31      A16S
ATOM  28212  O4* C  A1336     241.313 117.969 -17.097  1.00 44.31      A16S
ATOM  28213  C1* C  A1336     240.939 119.318 -17.260  1.00 44.31      A16S
ATOM  28214  N1  C  A1336     242.024 120.162 -16.740  1.00 75.05      A16S
ATOM  28215  C6  C  A1336     243.317 119.727 -16.764  1.00 75.05      A16S
ATOM  28216  C2  C  A1336     241.714 121.422 -16.215  1.00 75.05      A16S
ATOM  28217  O2  C  A1336     240.531 121.795 -16.191  1.00 75.05      A16S
ATOM  28218  N3  C  A1336     242.710 122.199 -15.746  1.00 75.05      A16S
ATOM  28219  C4  C  A1336     243.970 121.763 -15.783  1.00 75.05      A16S
ATOM  28220  N4  C  A1336     244.927 122.567 -15.323  1.00 75.05      A16S
ATOM  28221  C5  C  A1336     244.308 120.485 -16.298  1.00 75.05      A16S
ATOM  28222  C2* C  A1336     240.630 119.491 -18.746  1.00 44.31      A16S
ATOM  28223  O2* C  A1336     239.764 120.582 -18.977  1.00 44.31      A16S
ATOM  28224  C3* C  A1336     239.999 118.144 -19.075  1.00 44.31      A16S
ATOM  28225  O3* C  A1336     238.657 118.120 -18.633  1.00 44.31      A16S
ATOM  28226  P   G  A1337     237.458 118.122 -19.691  1.00 51.72      A16S
ATOM  28227  O1P G  A1337     237.969 118.192 -21.091  1.00 53.48      A16S
ATOM  28228  O2P G  A1337     236.548 119.195 -19.196  1.00 53.48      A16S
ATOM  28229  O5* G  A1337     236.765 116.709 -19.442  1.00 51.72      A16S
ATOM  28230  C5* G  A1337     237.349 115.478 -19.905  1.00 51.72      A16S
ATOM  28231  C4* G  A1337     237.117 114.405 -18.879  1.00 51.72      A16S
ATOM  28232  O4* G  A1337     237.991 114.688 -17.773  1.00 51.72      A16S
ATOM  28233  C1* G  A1337     237.283 114.609 -16.559  1.00 51.72      A16S
ATOM  28234  N9  G  A1337     237.383 115.925 -15.946  1.00 53.48      A16S
ATOM  28235  C4  G  A1337     238.492 116.424 -15.312  1.00 53.48      A16S
ATOM  28236  N3  G  A1337     239.652 115.764 -15.109  1.00 53.48      A16S
ATOM  28237  C2  G  A1337     240.547 116.513 -14.510  1.00 53.48      A16S
ATOM  28238  N2  G  A1337     241.759 116.013 -14.248  1.00 53.48      A16S
ATOM  28239  N1  G  A1337     240.321 117.810 -14.127  1.00 53.48      A16S
ATOM  28240  C6  G  A1337     239.130 118.508 -14.324  1.00 53.48      A16S
ATOM  28241  O6  G  A1337     239.025 119.682 -13.946  1.00 53.48      A16S
ATOM  28242  C5  G  A1337     238.167 117.713 -14.972  1.00 53.48      A16S
ATOM  28243  N7  G  A1337     236.870 118.013 -15.357  1.00 53.48      A16S
ATOM  28244  C8  G  A1337     236.442 116.920 -15.923  1.00 53.48      A16S
ATOM  28245  C2* G  A1337     235.873 114.090 -16.851  1.00 51.72      A16S
ATOM  28246  O2* G  A1337     235.825 112.708 -16.586  1.00 51.72      A16S
ATOM  28247  C3* G  A1337     235.699 114.433 -18.327  1.00 51.72      A16S
ATOM  28248  O3* G  A1337     234.917 113.437 -18.973  1.00 51.72      A16S
ATOM  28249  P   G  A1338     234.246 113.740 -20.399  1.00 41.17      A16S
ATOM  28250  O1P G  A1338     233.321 114.899 -20.249  1.00 62.62      A16S
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ATOM  28251  O2P G   A1338     235.335 113.800 -21.409  1.00 62.62      A16S
ATOM  28252  O5* G   A1338     233.384 112.428 -20.672  1.00 41.17      A16S
ATOM  28253  C5* G   A1338     233.928 111.328 -21.437  1.00 41.17      A16S
ATOM  28254  C4* G   A1338     232.925 110.197 -21.553  1.00 41.17      A16S
ATOM  28255  O4* G   A1338     233.031 109.278 -20.437  1.00 41.17      A16S
ATOM  28256  C1* G   A1338     231.744 108.818 -20.082  1.00 41.17      A16S
ATOM  28257  N9  G   A1338     231.512 109.239 -18.706  1.00 62.62      A16S
ATOM  28258  C4  G   A1338     230.943 108.510 -17.687  1.00 62.62      A16S
ATOM  28259  N3  G   A1338     230.425 107.271 -17.784  1.00 62.62      A16S
ATOM  28260  C2  G   A1338     229.993 106.826 -16.615  1.00 62.62      A16S
ATOM  28261  N2  G   A1338     229.443 105.617 -16.511  1.00 62.62      A16S
ATOM  28262  N1  G   A1338     230.070 107.534 -15.454  1.00 62.62      A16S
ATOM  28263  C6  G   A1338     230.605 108.805 -15.331  1.00 62.62      A16S
ATOM  28264  O6  G   A1338     230.653 109.342 -14.225  1.00 62.62      A16S
ATOM  28265  C5  G   A1338     231.053 109.304 -16.571  1.00 62.62      A16S
ATOM  28266  N7  G   A1338     231.628 110.524 -16.889  1.00 62.62      A16S
ATOM  28267  C8  G   A1338     231.874 110.444 -18.164  1.00 62.62      A16S
ATOM  28268  C2* G   A1338     230.746 109.392 -21.096  1.00 41.17      A16S
ATOM  28269  O2* G   A1338     230.559 108.481 -22.156  1.00 41.17      A16S
ATOM  28270  C3* G   A1338     231.475 110.625 -21.594  1.00 41.17      A16S
ATOM  28271  O3* G   A1338     231.083 110.964 -22.901  1.00 41.17      A16S
ATOM  28272  P   A   A1339     229.909 112.031 -23.103  1.00 41.80      A16S
ATOM  28273  O1P A   A1339     229.735 112.285 -24.557  1.00 57.24      A16S
ATOM  28274  O2P A   A1339     230.197 113.182 -22.196  1.00 57.24      A16S
ATOM  28275  O5* A   A1339     228.615 111.246 -22.590  1.00 41.80      A16S
ATOM  28276  C5* A   A1339     228.026 110.200 -23.387  1.00 41.80      A16S
ATOM  28277  C4* A   A1339     227.033 109.396 -22.577  1.00 41.80      A16S
ATOM  28278  O4* A   A1339     227.712 108.748 -21.474  1.00 41.80      A16S
ATOM  28279  C1* A   A1339     226.844 108.677 -20.359  1.00 41.80      A16S
ATOM  28280  N9  A   A1339     227.386 109.517 -19.297  1.00 57.24      A16S
ATOM  28281  C4  A   A1339     227.314 109.267 -17.954  1.00 57.24      A16S
ATOM  28282  N3  A   A1339     226.785 108.191 -17.356  1.00 57.24      A16S
ATOM  28283  C2  A   A1339     226.867 108.305 -16.048  1.00 57.24      A16S
ATOM  28284  N1  A   A1339     227.380 109.296 -15.323  1.00 57.24      A16S
ATOM  28285  C6  A   A1339     227.908 110.356 -15.959  1.00 57.24      A16S
ATOM  28286  N6  A   A1339     228.432 111.340 -15.235  1.00 57.24      A16S
ATOM  28287  C5  A   A1339     227.878 110.358 -17.342  1.00 57.24      A16S
ATOM  28288  N7  A   A1339     228.321 111.275 -18.278  1.00 57.24      A16S
ATOM  28289  C8  A   A1339     228.016 110.726 -19.420  1.00 57.24      A16S
ATOM  28290  C2* A   A1339     225.496 109.261 -20.778  1.00 41.80      A16S
ATOM  28291  O2* A   A1339     224.611 108.228 -21.139  1.00 41.80      A16S
ATOM  28292  C3* A   A1339     225.902 110.170 -21.925  1.00 41.80      A16S
ATOM  28293  O3* A   A1339     224.825 110.395 -22.800  1.00 41.80      A16S
ATOM  28294  P   A   A1340     224.315 111.893 -23.048  1.00 44.76      A16S
ATOM  28295  O1P A   A1340     223.153 111.821 -23.975  1.00 65.54      A16S
ATOM  28296  O2P A   A1340     225.501 112.715 -23.428  1.00 65.54      A16S
ATOM  28297  O5* A   A1340     223.810 112.364 -21.606  1.00 44.76      A16S
ATOM  28298  C5* A   A1340     222.762 111.648 -20.926  1.00 44.76      A16S
ATOM  28299  C4* A   A1340     222.835 111.858 -19.424  1.00 44.76      A16S
ATOM  28300  O4* A   A1340     224.166 111.523 -18.939  1.00 44.76      A16S
ATOM  28301  C1* A   A1340     224.480 112.321 -17.813  1.00 44.76      A16S
ATOM  28302  N9  A   A1340     225.557 113.246 -18.181  1.00 65.54      A16S
ATOM  28303  C4  A   A1340     226.292 114.027 -17.316  1.00 65.54      A16S
ATOM  28304  N3  A   A1340     226.226 114.043 -15.976  1.00 65.54      A16S
ATOM  28305  C2  A   A1340     227.055 114.952 -15.476  1.00 65.54      A16S
ATOM  28306  N1  A   A1340     227.879 115.788 -16.111  1.00 65.54      A16S
ATOM  28307  C6  A   A1340     227.922 115.753 -17.456  1.00 65.54      A16S
ATOM  28308  N6  A   A1340     228.736 116.603 -18.083  1.00 65.54      A16S
ATOM  28309  C5  A   A1340     227.094 114.820 -18.113  1.00 65.54      A16S
ATOM  28310  N7  A   A1340     226.905 114.517 -19.454  1.00 65.54      A16S
ATOM  28311  C8  A   A1340     225.999 113.571 -19.440  1.00 65.54      A16S
ATOM  28312  C2* A   A1340     223.226 113.130 -17.486  1.00 44.76      A16S
ATOM  28313  O2* A   A1340     222.431 112.389 -16.587  1.00 44.76      A16S
ATOM  28314  C3* A   A1340     222.569 113.245 -18.853  1.00 44.76      A16S
ATOM  28315  O3* A   A1340     221.182 113.547 -18.722  1.00 44.76      A16S
ATOM  28316  P   U   A1341     220.686 115.086 -18.746  1.00 46.52      A16S
ATOM  28317  O1P U   A1341     219.222 115.064 -18.516  1.00 53.24      A16S
ATOM  28318  O2P U   A1341     221.224 115.771 -19.947  1.00 53.24      A16S
ATOM  28319  O5* U   A1341     221.382 115.751 -17.477  1.00 46.52      A16S
ATOM  28320  C5* U   A1341     221.058 115.314 -16.144  1.00 46.52      A16S
ATOM  28321  C4* U   A1341     221.881 116.068 -15.129  1.00 46.52      A16S
ATOM  28322  O4* U   A1341     223.290 115.780 -15.343  1.00 46.52      A16S
ATOM  28323  C1* U   A1341     224.066 116.932 -15.047  1.00 46.52      A16S
ATOM  28324  N1  U   A1341     224.778 117.362 -16.264  1.00 53.24      A16S
ATOM  28325  C6  U   A1341     224.339 117.017 -17.519  1.00 53.24      A16S
ATOM  28326  C2  U   A1341     225.892 118.163 -16.105  1.00 53.24      A16S
ATOM  28327  O2  U   A1341     226.357 118.434 -15.020  1.00 53.24      A16S
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ATOM  28328  N3  U   A1341     226.447 118.626 -17.267  1.00 53.24      A16S
ATOM  28329  C4  U   A1341     226.030 118.360 -18.545  1.00 53.24      A16S
ATOM  28330  O4  U   A1341     226.533 118.977 -19.480  1.00 53.24      A16S
ATOM  28331  C5  U   A1341     224.914 117.474 -18.632  1.00 53.24      A16S
ATOM  28332  C2* U   A1341     223.102 118.022 -14.566  1.00 46.52      A16S
ATOM  28333  O2* U   A1341     223.012 118.022 -13.155  1.00 46.52      A16S
ATOM  28334  C3* U   A1341     221.793 117.582 -15.200  1.00 46.52      A16S
ATOM  28335  O3* U   A1341     220.701 118.101 -14.480  1.00 46.52      A16S
ATOM  28336  P   C   A1342     220.241 119.615 -14.737  1.00 47.62      A16S
ATOM  28337  O1P C   A1342     218.809 119.738 -14.349  1.00 69.36      A16S
ATOM  28338  O2P C   A1342     220.665 120.013 -16.103  1.00 69.36      A16S
ATOM  28339  O5* C   A1342     221.095 120.459 -13.695  1.00 47.62      A16S
ATOM  28340  C5* C   A1342     220.982 120.221 -12.283  1.00 47.62      A16S
ATOM  28341  C4* C   A1342     221.874 121.171 -11.513  1.00 47.62      A16S
ATOM  28342  O4* C   A1342     223.262 120.868 -11.807  1.00 47.62      A16S
ATOM  28343  C1* C   A1342     224.013 122.072 -11.834  1.00 47.62      A16S
ATOM  28344  N1  C   A1342     224.547 122.275 -13.200  1.00 69.36      A16S
ATOM  28345  C6  C   A1342     224.379 121.329 -14.173  1.00 69.36      A16S
ATOM  28346  C2  C   A1342     225.215 123.470 -13.493  1.00 69.36      A16S
ATOM  28347  O2  C   A1342     225.385 124.301 -12.591  1.00 69.36      A16S
ATOM  28348  N3  C   A1342     225.654 123.691 -14.747  1.00 69.36      A16S
ATOM  28349  C4  C   A1342     225.452 122.781 -15.695  1.00 69.36      A16S
ATOM  28350  N4  C   A1342     225.858 123.070 -16.932  1.00 69.36      A16S
ATOM  28351  C5  C   A1342     224.810 121.540 -15.423  1.00 69.36      A16S
ATOM  28352  C2* C   A1342     223.076 123.207 -11.409  1.00 47.62      A16S
ATOM  28353  O2* C   A1342     223.189 123.396 -10.008  1.00 47.62      A16S
ATOM  28354  C3* C   A1342     221.719 122.658 -11.821  1.00 47.62      A16S
ATOM  28355  O3* C   A1342     220.659 123.265 -11.082  1.00 47.62      A16S
ATOM  28356  P   G   A1343     220.048 124.681 -11.561  1.00 55.62      A16S
ATOM  28357  O1P G   A1343     218.901 124.982 -10.665  1.00 65.79      A16S
ATOM  28358  O2P G   A1343     219.841 124.677 -13.030  1.00 65.79      A16S
ATOM  28359  O5* G   A1343     221.206 125.727 -11.237  1.00 55.62      A16S
ATOM  28360  C5* G   A1343     221.640 125.962  -9.874  1.00 55.62      A16S
ATOM  28361  C4* G   A1343     222.625 127.103  -9.831  1.00 55.62      A16S
ATOM  28362  O4* G   A1343     223.820 126.736 -10.568  1.00 55.62      A16S
ATOM  28363  C1* G   A1343     224.315 127.863 -11.272  1.00 55.62      A16S
ATOM  28364  N9  G   A1343     224.324 127.562 -12.699  1.00 65.79      A16S
ATOM  28365  C4  G   A1343     225.235 128.026 -13.607  1.00 65.79      A16S
ATOM  28366  N3  G   A1343     226.295 128.808 -13.327  1.00 65.79      A16S
ATOM  28367  C2  G   A1343     226.979 129.114 -14.408  1.00 65.79      A16S
ATOM  28368  N2  G   A1343     228.066 129.880 -14.300  1.00 65.79      A16S
ATOM  28369  N1  G   A1343     226.646 128.692 -15.669  1.00 65.79      A16S
ATOM  28370  C6  G   A1343     225.556 127.892 -15.980  1.00 65.79      A16S
ATOM  28371  O6  G   A1343     225.334 127.585 -17.155  1.00 65.79      A16S
ATOM  28372  C5  G   A1343     224.819 127.545 -14.823  1.00 65.79      A16S
ATOM  28373  N7  G   A1343     223.679 126.773 -14.681  1.00 65.79      A16S
ATOM  28374  C8  G   A1343     223.427 126.803 -13.402  1.00 65.79      A16S
ATOM  28375  C2* G   A1343     223.408 129.053 -10.965  1.00 55.62      A16S
ATOM  28376  O2* G   A1343     223.969 129.894  -9.981  1.00 55.62      A16S
ATOM  28377  C3* G   A1343     222.132 128.355 -10.526  1.00 55.62      A16S
ATOM  28378  O3* G   A1343     221.346 129.161  -9.694  1.00 55.62      A16S
ATOM  28379  P   C   A1344     220.286 130.150 -10.361  1.00 46.17      A16S
ATOM  28380  O1P C   A1344     219.498 130.712  -9.235  1.00 55.11      A16S
ATOM  28381  O2P C   A1344     219.595 129.432 -11.461  1.00 55.11      A16S
ATOM  28382  O5* C   A1344     221.183 131.295 -11.014  1.00 46.17      A16S
ATOM  28383  C5* C   A1344     221.945 132.197 -10.187  1.00 46.17      A16S
ATOM  28384  C4* C   A1344     222.908 132.982 -11.028  1.00 46.17      A16S
ATOM  28385  O4* C   A1344     223.783 132.046 -11.700  1.00 46.17      A16S
ATOM  28386  C1* C   A1344     224.109 132.537 -12.990  1.00 46.17      A16S
ATOM  28387  N1  C   A1344     223.702 131.554 -14.010  1.00 55.11      A16S
ATOM  28388  C6  C   A1344     222.772 130.591 -13.740  1.00 55.11      A16S
ATOM  28389  C2  C   A1344     224.276 131.640 -15.282  1.00 55.11      A16S
ATOM  28390  O2  C   A1344     225.143 132.498 -15.491  1.00 55.11      A16S
ATOM  28391  N3  C   A1344     223.876 130.789 -16.247  1.00 55.11      A16S
ATOM  28392  C4  C   A1344     222.949 129.871 -15.981  1.00 55.11      A16S
ATOM  28393  N4  C   A1344     222.562 129.070 -16.973  1.00 55.11      A16S
ATOM  28394  C5  C   A1344     222.372 129.738 -14.687  1.00 55.11      A16S
ATOM  28395  C2* C   A1344     223.405 133.879 -13.183  1.00 46.17      A16S
ATOM  28396  O2* C   A1344     224.354 134.916 -13.026  1.00 46.17      A16S
ATOM  28397  C3* C   A1344     222.282 133.793 -12.148  1.00 46.17      A16S
ATOM  28398  O3* C   A1344     221.839 135.060 -11.691  1.00 46.17      A16S
ATOM  28399  P   U   A1345     220.571 135.761 -12.386  1.00 48.58      A16S
ATOM  28400  O1P U   A1345     220.264 136.958 -11.577  1.00 55.70      A16S
ATOM  28401  O2P U   A1345     219.514 134.743 -12.614  1.00 55.70      A16S
ATOM  28402  O5* U   A1345     221.105 136.279 -13.792  1.00 48.58      A16S
ATOM  28403  C5* U   A1345     222.151 137.242 -13.847  1.00 48.58      A16S
ATOM  28404  C4* U   A1345     221.859 138.265 -14.904  1.00 48.58      A16S
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ATOM  28405  O4* U   A1345     222.046 137.663 -16.212  1.00 48.58      A16S
ATOM  28406  C1* U   A1345     220.968 138.031 -17.036  1.00 48.58      A16S
ATOM  28407  N1  U   A1345     220.808 137.055 -18.128  1.00 55.70      A16S
ATOM  28408  C6  U   A1345     219.921 136.006 -18.057  1.00 55.70      A16S
ATOM  28409  C2  U   A1345     221.567 137.254 -19.259  1.00 55.70      A16S
ATOM  28410  O2  U   A1345     222.391 138.135 -19.351  1.00 55.70      A16S
ATOM  28411  N3  U   A1345     221.327 136.380 -20.283  1.00 55.70      A16S
ATOM  28412  C4  U   A1345     220.440 135.335 -20.289  1.00 55.70      A16S
ATOM  28413  O4  U   A1345     220.312 134.662 -21.308  1.00 55.70      A16S
ATOM  28414  C5  U   A1345     219.716 135.164 -19.073  1.00 55.70      A16S
ATOM  28415  C2* U   A1345     219.780 138.244 -16.097  1.00 48.58      A16S
ATOM  28416  O2* U   A1345     218.825 139.081 -16.736  1.00 48.58      A16S
ATOM  28417  C3* U   A1345     220.460 138.893 -14.887  1.00 48.58      A16S
ATOM  28418  O3* U   A1345     220.526 140.307 -15.132  1.00 48.58      A16S
ATOM  28419  P   A   A1346     220.566 141.349 -13.901  1.00 58.22      A16S
ATOM  28420  O1P A   A1346     219.807 140.790 -12.752  1.00 67.49      A16S
ATOM  28421  O2P A   A1346     220.184 142.675 -14.460  1.00 67.49      A16S
ATOM  28422  O5* A   A1346     222.112 141.386 -13.513  1.00 58.22      A16S
ATOM  28423  C5* A   A1346     222.534 141.535 -12.148  1.00 58.22      A16S
ATOM  28424  C4* A   A1346     223.570 142.634 -12.032  1.00 58.22      A16S
ATOM  28425  O4* A   A1346     224.806 142.200 -12.654  1.00 58.22      A16S
ATOM  28426  C1* A   A1346     225.268 143.189 -13.553  1.00 58.22      A16S
ATOM  28427  N9  A   A1346     225.843 142.516 -14.717  1.00 67.49      A16S
ATOM  28428  C4  A   A1346     226.892 142.970 -15.475  1.00 67.49      A16S
ATOM  28429  N3  A   A1346     227.611 144.084 -15.284  1.00 67.49      A16S
ATOM  28430  C2  A   A1346     228.544 144.206 -16.224  1.00 67.49      A16S
ATOM  28431  N1  A   A1346     228.814 143.409 -17.262  1.00 67.49      A16S
ATOM  28432  C6  A   A1346     228.068 142.301 -17.429  1.00 67.49      A16S
ATOM  28433  N6  A   A1346     228.321 141.515 -18.476  1.00 67.49      A16S
ATOM  28434  C5  A   A1346     227.056 142.045 -16.486  1.00 67.49      A16S
ATOM  28435  N7  A   A1346     226.141 141.010 -16.356  1.00 67.49      A16S
ATOM  28436  C8  A   A1346     225.450 141.336 -15.293  1.00 67.49      A16S
ATOM  28437  C2* A   A1346     224.067 144.054 -13.928  1.00 58.22      A16S
ATOM  28438  O2* A   A1346     224.419 145.358 -14.346  1.00 58.22      A16S
ATOM  28439  C3* A   A1346     223.207 143.971 -12.671  1.00 58.22      A16S
ATOM  28440  O3* A   A1346     222.934 145.078 -11.766  1.00 58.22      A16S
ATOM  28441  P   G   A1347     224.106 146.016 -11.177  1.00 52.86      A16S
ATOM  28442  O1P G   A1347     223.582 147.398 -11.348  1.00 77.24      A16S
ATOM  28443  O2P G   A1347     225.428 145.662 -11.745  1.00 77.24      A16S
ATOM  28444  O5* G   A1347     224.083 145.633  -9.621  1.00 52.86      A16S
ATOM  28445  C5* G   A1347     225.237 145.801  -8.736  1.00 52.86      A16S
ATOM  28446  C4* G   A1347     226.281 144.757  -9.043  1.00 52.86      A16S
ATOM  28447  O4* G   A1347     227.149 145.342 -10.036  1.00 52.86      A16S
ATOM  28448  C1* G   A1347     228.388 144.682 -10.000  1.00 52.86      A16S
ATOM  28449  N9  G   A1347     229.482 145.645 -10.061  1.00 77.24      A16S
ATOM  28450  C4  G   A1347     230.427 145.696 -11.052  1.00 77.24      A16S
ATOM  28451  N3  G   A1347     230.508 144.859 -12.107  1.00 77.24      A16S
ATOM  28452  C2  G   A1347     231.499 145.172 -12.913  1.00 77.24      A16S
ATOM  28453  N2  G   A1347     231.717 144.442 -14.011  1.00 77.24      A16S
ATOM  28454  N1  G   A1347     232.348 146.221 -12.701  1.00 77.24      A16S
ATOM  28455  C6  G   A1347     232.292 147.091 -11.619  1.00 77.24      A16S
ATOM  28456  O6  G   A1347     233.116 148.005 -11.526  1.00 77.24      A16S
ATOM  28457  C5  G   A1347     231.226 146.766 -10.743  1.00 77.24      A16S
ATOM  28458  N7  G   A1347     230.807 147.367  -9.564  1.00 77.24      A16S
ATOM  28459  C8  G   A1347     229.774 146.663  -9.191  1.00 77.24      A16S
ATOM  28460  C2* G   A1347     228.393 143.723  -8.816  1.00 52.86      A16S
ATOM  28461  O2* G   A1347     228.056 142.438  -9.316  1.00 52.86      A16S
ATOM  28462  C3* G   A1347     227.252 144.245  -7.968  1.00 52.86      A16S
ATOM  28463  O3* G   A1347     226.683 143.179  -7.168  1.00 52.86      A16S
ATOM  28464  P   U   A1348     227.497 141.780  -6.893  1.00 49.31      A16S
ATOM  28465  O1P U   A1348     227.046 141.267  -5.561  1.00 75.40      A16S
ATOM  28466  O2P U   A1348     228.957 141.877  -7.153  1.00 75.40      A16S
ATOM  28467  O5* U   A1348     226.873 140.792  -7.980  1.00 49.31      A16S
ATOM  28468  C5* U   A1348     225.462 140.455  -7.915  1.00 49.31      A16S
ATOM  28469  C4* U   A1348     225.090 139.458  -8.979  1.00 49.31      A16S
ATOM  28470  O4* U   A1348     225.007 140.103 -10.265  1.00 49.31      A16S
ATOM  28471  C1* U   A1348     225.508 139.233 -11.256  1.00 49.31      A16S
ATOM  28472  N1  U   A1348     226.580 139.937 -11.978  1.00 75.40      A16S
ATOM  28473  C6  U   A1348     227.102 141.111 -11.500  1.00 75.40      A16S
ATOM  28474  C2  U   A1348     227.035 139.400 -13.160  1.00 75.40      A16S
ATOM  28475  O2  U   A1348     226.636 138.346 -13.600  1.00 75.40      A16S
ATOM  28476  N3  U   A1348     227.990 140.141 -13.806  1.00 75.40      A16S
ATOM  28477  C4  U   A1348     228.538 141.329 -13.390  1.00 75.40      A16S
ATOM  28478  O4  U   A1348     229.365 141.898 -14.099  1.00 75.40      A16S
ATOM  28479  C5  U   A1348     228.039 141.804 -12.148  1.00 75.40      A16S
ATOM  28480  C2* U   A1348     225.887 137.905 -10.582  1.00 49.31      A16S
ATOM  28481  O2* U   A1348     224.805 137.011 -10.662  1.00 49.31      A16S
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ATOM  28482  C3* U   A1348     226.067 138.314  -9.133  1.00 49.31      A16S
ATOM  28483  O3* U   A1348     225.655 137.271  -8.272  1.00 49.31      A16S
ATOM  28484  P    A   A1349     226.718 136.195  -7.769  1.00 54.23      A16S
ATOM  28485  O1P A   A1349     226.023 135.108  -7.041  1.00 77.93      A16S
ATOM  28486  O2P A   A1349     227.804 136.940  -7.093  1.00 77.93      A16S
ATOM  28487  O5* A   A1349     227.275 135.593  -9.133  1.00 54.23      A16S
ATOM  28488  C5* A   A1349     226.484 134.672  -9.906  1.00 54.23      A16S
ATOM  28489  C4* A   A1349     227.281 134.139 -11.072  1.00 54.23      A16S
ATOM  28490  O4* A   A1349     227.489 135.191 -12.042  1.00 54.23      A16S
ATOM  28491  C1* A   A1349     228.734 135.002 -12.680  1.00 54.23      A16S
ATOM  28492  N9   A   A1349     229.513 136.241 -12.593  1.00 77.93      A16S
ATOM  28493  C4   A   A1349     230.755 136.449 -13.142  1.00 77.93      A16S
ATOM  28494  N3   A   A1349     231.500 135.568 -13.828  1.00 77.93      A16S
ATOM  28495  C2   A   A1349     232.633 136.125 -14.223  1.00 77.93      A16S
ATOM  28496  N1   A   A1349     233.079 137.366 -14.024  1.00 77.93      A16S
ATOM  28497  C6   A   A1349     232.312 138.223 -13.324  1.00 77.93      A16S
ATOM  28498  N6   A   A1349     232.764 139.459 -13.120  1.00 77.93      A16S
ATOM  28499  C5   A   A1349     231.080 137.759 -12.853  1.00 77.93      A16S
ATOM  28500  N7   A   A1349     230.070 138.368 -12.127  1.00 77.93      A16S
ATOM  28501  C8   A   A1349     229.170 137.426 -11.992  1.00 77.93      A16S
ATOM  28502  C2* A   A1349     229.401 133.763 -12.079  1.00 54.23      A16S
ATOM  28503  O2* A   A1349     229.160 132.674 -12.937  1.00 54.23      A16S
ATOM  28504  C3* A   A1349     228.672 133.611 -10.752  1.00 54.23      A16S
ATOM  28505  O3* A   A1349     228.613 132.244 -10.363  1.00 54.23      A16S
ATOM  28506  P    A   A1350     229.875 131.570  -9.640  1.00 49.46      A16S
ATOM  28507  O1P A   A1350     229.743 130.093  -9.724  1.00 74.06      A16S
ATOM  28508  O2P A   A1350     230.043 132.203  -8.317  1.00 74.06      A16S
ATOM  28509  O5* A   A1350     231.094 132.043 -10.542  1.00 49.46      A16S
ATOM  28510  C5* A   A1350     231.756 131.153 -11.466  1.00 49.46      A16S
ATOM  28511  C4* A   A1350     233.098 131.732 -11.859  1.00 49.46      A16S
ATOM  28512  O4* A   A1350     232.884 133.061 -12.411  1.00 49.46      A16S
ATOM  28513  C1* A   A1350     233.893 133.937 -11.954  1.00 49.46      A16S
ATOM  28514  N9   A   A1350     233.257 134.966 -11.135  1.00 74.06      A16S
ATOM  28515  C4   A   A1350     233.830 136.148 -10.748  1.00 74.06      A16S
ATOM  28516  N3   A   A1350     235.058 136.588 -11.050  1.00 74.06      A16S
ATOM  28517  C2   A   A1350     235.273 137.770 -10.501  1.00 74.06      A16S
ATOM  28518  N1   A   A1350     234.467 138.506  -9.735  1.00 74.06      A16S
ATOM  28519  C6   A   A1350     233.245 138.034  -9.444  1.00 74.06      A16S
ATOM  28520  N6   A   A1350     232.454 138.769  -8.667  1.00 74.06      A16S
ATOM  28521  C5   A   A1350     232.887 136.791  -9.977  1.00 74.06      A16S
ATOM  28522  N7   A   A1350     231.729 136.033  -9.886  1.00 74.06      A16S
ATOM  28523  C8   A   A1350     232.001 134.964 -10.589  1.00 74.06      A16S
ATOM  28524  C2* A   A1350     234.910 133.110 -11.168  1.00 49.46      A16S
ATOM  28525  O2* A   A1350     235.934 132.704 -12.049  1.00 49.46      A16S
ATOM  28526  C3* A   A1350     234.063 131.939 -10.701  1.00 49.46      A16S
ATOM  28527  O3* A   A1350     234.849 130.778 -10.508  1.00 49.46      A16S
ATOM  28528  P    U   A1351     235.451 130.458  -9.060  1.00 56.77      A16S
ATOM  28529  O1P U   A1351     236.212 129.183  -9.144  1.00 80.07      A16S
ATOM  28530  O2P U   A1351     234.349 130.588  -8.080  1.00 80.07      A16S
ATOM  28531  O5* U   A1351     236.483 131.642  -8.823  1.00 56.77      A16S
ATOM  28532  C5* U   A1351     237.647 131.784  -9.663  1.00 56.77      A16S
ATOM  28533  C4* U   A1351     238.421 133.025  -9.284  1.00 56.77      A16S
ATOM  28534  O4* U   A1351     237.648 134.201  -9.622  1.00 56.77      A16S
ATOM  28535  C1* U   A1351     237.825 135.189  -8.625  1.00 56.77      A16S
ATOM  28536  N1   U   A1351     236.512 135.464  -8.015  1.00 80.07      A16S
ATOM  28537  C6   U   A1351     235.600 134.463  -7.776  1.00 80.07      A16S
ATOM  28538  C2   U   A1351     236.220 136.770  -7.693  1.00 80.07      A16S
ATOM  28539  O2   U   A1351     236.993 137.684  -7.883  1.00 80.07      A16S
ATOM  28540  N3   U   A1351     234.985 136.972  -7.142  1.00 80.07      A16S
ATOM  28541  C4   U   A1351     234.033 136.025  -6.882  1.00 80.07      A16S
ATOM  28542  O4   U   A1351     232.966 136.372  -6.377  1.00 80.07      A16S
ATOM  28543  C5   U   A1351     234.404 134.692  -7.237  1.00 80.07      A16S
ATOM  28544  C2* U   A1351     238.877 134.673  -7.641  1.00 56.77      A16S
ATOM  28545  O2* U   A1351     240.160 135.095  -8.059  1.00 56.77      A16S
ATOM  28546  C3* U   A1351     238.731 133.172  -7.804  1.00 56.77      A16S
ATOM  28547  O3* U   A1351     239.924 132.495  -7.464  1.00 56.77      A16S
ATOM  28548  P    C   A1352     240.193 132.095  -5.937  1.00 43.12      A16S
ATOM  28549  O1P C   A1352     241.456 131.309  -5.905  1.00 89.77      A16S
ATOM  28550  O2P C   A1352     238.950 131.509  -5.372  1.00 89.77      A16S
ATOM  28551  O5* C   A1352     240.416 133.516  -5.258  1.00 43.12      A16S
ATOM  28552  C5* C   A1352     241.564 134.317  -5.581  1.00 43.12      A16S
ATOM  28553  C4* C   A1352     241.689 135.459  -4.605  1.00 43.12      A16S
ATOM  28554  O4* C   A1352     240.711 136.481  -4.915  1.00 43.12      A16S
ATOM  28555  C1* C   A1352     240.273 137.096  -3.720  1.00 43.12      A16S
ATOM  28556  N1   C   A1352     238.800 137.012  -3.635  1.00 89.77      A16S
ATOM  28557  C6   C   A1352     238.141 135.846  -3.911  1.00 89.77      A16S
ATOM  28558  C2   C   A1352     238.078 138.156  -3.257  1.00 89.77      A16S
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ATOM  28559  O2   C   A1352     238.688 139.208  -3.028  1.00 89.77      A16S
ATOM  28560  N3   C   A1352     236.733 138.087  -3.157  1.00 89.77      A16S
ATOM  28561  C4   C   A1352     236.100 136.945  -3.431  1.00 89.77      A16S
ATOM  28562  N4   C   A1352     234.765 136.930  -3.332  1.00 89.77      A16S
ATOM  28563  C5   C   A1352     236.806 135.768  -3.822  1.00 89.77      A16S
ATOM  28564  C2*  C   A1352     241.005 136.429  -2.553  1.00 43.12      A16S
ATOM  28565  O2*  C   A1352     242.106 137.233  -2.213  1.00 43.12      A16S
ATOM  28566  C3*  C   A1352     241.431 135.099  -3.155  1.00 43.12      A16S
ATOM  28567  O3*  C   A1352     242.586 134.567  -2.528  1.00 43.12      A16S
ATOM  28568  P    G   A1353     242.420 133.505  -1.341  1.00 50.46      A16S
ATOM  28569  O1P  G   A1353     243.722 132.838  -1.092  1.00 68.67      A16S
ATOM  28570  O2P  G   A1353     241.236 132.688  -1.665  1.00 68.67      A16S
ATOM  28571  O5*  G   A1353     242.058 134.386  -0.064  1.00 50.46      A16S
ATOM  28572  C5*  G   A1353     243.084 135.087   0.650  1.00 50.46      A16S
ATOM  28573  C4*  G   A1353     242.548 136.364   1.270  1.00 50.46      A16S
ATOM  28574  O4*  G   A1353     241.641 137.024   0.347  1.00 50.46      A16S
ATOM  28575  C1*  G   A1353     240.676 137.763   1.072  1.00 50.46      A16S
ATOM  28576  N9   G   A1353     239.339 137.301   0.700  1.00 68.67      A16S
ATOM  28577  C4   G   A1353     238.144 137.865   1.093  1.00 68.67      A16S
ATOM  28578  N3   G   A1353     237.998 138.952   1.881  1.00 68.67      A16S
ATOM  28579  C2   G   A1353     236.727 139.236   2.104  1.00 68.67      A16S
ATOM  28580  N2   G   A1353     236.394 140.274   2.871  1.00 68.67      A16S
ATOM  28581  N1   G   A1353     235.685 138.521   1.595  1.00 68.67      A16S
ATOM  28582  C6   G   A1353     235.805 137.403   0.782  1.00 68.67      A16S
ATOM  28583  O6   G   A1353     234.788 136.831   0.383  1.00 68.67      A16S
ATOM  28584  C5   G   A1353     237.168 137.081   0.531  1.00 68.67      A16S
ATOM  28585  N7   G   A1353     237.730 136.057  -0.218  1.00 68.67      A16S
ATOM  28586  C8   G   A1353     239.016 136.227  -0.089  1.00 68.67      A16S
ATOM  28587  C2*  G   A1353     240.973 137.573   2.562  1.00 50.46      A16S
ATOM  28588  O2*  G   A1353     241.736 138.679   3.010  1.00 50.46      A16S
ATOM  28589  C3*  G   A1353     241.766 136.271   2.569  1.00 50.46      A16S
ATOM  28590  O3*  G   A1353     242.646 136.241   3.686  1.00 50.46      A16S
ATOM  28591  P    C   A1354     242.100 135.756   5.118  1.00 52.92      A16S
ATOM  28592  O1P  C   A1354     243.240 135.785   6.076  1.00 94.24      A16S
ATOM  28593  O2P  C   A1354     241.369 134.481   4.897  1.00 94.24      A16S
ATOM  28594  O5*  C   A1354     241.046 136.883   5.545  1.00 52.92      A16S
ATOM  28595  C5*  C   A1354     241.482 138.224   5.874  1.00 52.92      A16S
ATOM  28596  C4*  C   A1354     240.361 139.028   6.512  1.00 52.92      A16S
ATOM  28597  O4*  C   A1354     239.442 139.530   5.511  1.00 52.92      A16S
ATOM  28598  C1*  C   A1354     238.124 139.533   6.042  1.00 52.92      A16S
ATOM  28599  N1   C   A1354     237.335 138.515   5.319  1.00 94.24      A16S
ATOM  28600  C6   C   A1354     237.954 137.450   4.725  1.00 94.24      A16S
ATOM  28601  C2   C   A1354     235.940 138.639   5.263  1.00 94.24      A16S
ATOM  28602  O2   C   A1354     235.396 139.614   5.796  1.00 94.24      A16S
ATOM  28603  N3   C   A1354     235.224 137.690   4.627  1.00 94.24      A16S
ATOM  28604  C4   C   A1354     235.842 136.651   4.060  1.00 94.24      A16S
ATOM  28605  N4   C   A1354     235.094 135.732   3.447  1.00 94.24      A16S
ATOM  28606  C5   C   A1354     237.253 136.506   4.095  1.00 94.24      A16S
ATOM  28607  C2*  C   A1354     238.222 139.151   7.520  1.00 52.92      A16S
ATOM  28608  O2*  C   A1354     238.322 140.314   8.319  1.00 52.92      A16S
ATOM  28609  C3*  C   A1354     239.489 138.318   7.533  1.00 52.92      A16S
ATOM  28610  O3*  C   A1354     240.057 138.317   8.816  1.00 52.92      A16S
ATOM  28611  P    G   A1355     239.628 137.184   9.857  1.00 64.85      A16S
ATOM  28612  O1P  G   A1355     240.613 137.145  10.977  1.00 87.26      A16S
ATOM  28613  O2P  G   A1355     239.373 135.958   9.071  1.00 87.26      A16S
ATOM  28614  O5*  G   A1355     238.235 137.702  10.426  1.00 64.85      A16S
ATOM  28615  C5*  G   A1355     238.140 138.958  11.126  1.00 64.85      A16S
ATOM  28616  C4*  G   A1355     236.696 139.265  11.454  1.00 64.85      A16S
ATOM  28617  O4*  G   A1355     235.948 139.394  10.215  1.00 64.85      A16S
ATOM  28618  C1*  G   A1355     234.652 138.838  10.372  1.00 64.85      A16S
ATOM  28619  N9   G   A1355     234.513 137.707   9.443  1.00 87.26      A16S
ATOM  28620  C4   G   A1355     233.339 137.062   9.081  1.00 87.26      A16S
ATOM  28621  N3   G   A1355     232.093 137.384   9.486  1.00 87.26      A16S
ATOM  28622  C2   G   A1355     231.182 136.562   8.992  1.00 87.26      A16S
ATOM  28623  N2   G   A1355     229.890 136.745   9.285  1.00 87.26      A16S
ATOM  28624  N1   G   A1355     231.466 135.503   8.175  1.00 87.26      A16S
ATOM  28625  C6   G   A1355     232.733 135.142   7.747  1.00 87.26      A16S
ATOM  28626  O6   G   A1355     232.873 134.149   7.022  1.00 87.26      A16S
ATOM  28627  C5   G   A1355     233.730 136.029   8.255  1.00 87.26      A16S
ATOM  28628  N7   G   A1355     235.106 136.042   8.067  1.00 87.26      A16S
ATOM  28629  C8   G   A1355     235.526 137.052   8.781  1.00 87.26      A16S
ATOM  28630  C2*  G   A1355     234.513 138.437  11.846  1.00 64.85      A16S
ATOM  28631  O2*  G   A1355     233.949 139.506  12.571  1.00 64.85      A16S
ATOM  28632  C3*  G   A1355     235.958 138.200  12.250  1.00 64.85      A16S
ATOM  28633  O3*  G   A1355     236.136 138.381  13.644  1.00 64.85      A16S
ATOM  28634  P    G   A1356     236.059 137.117  14.632  1.00 70.17      A16S
ATOM  28635  O1P  G   A1356     236.631 137.511  15.938  1.00 83.33      A16S
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ATOM  28636  O2P G   A1356     236.610 135.939  13.927  1.00 83.33      A16S
ATOM  28637  O5* G   A1356     234.495 136.886  14.850  1.00 70.17      A16S
ATOM  28638  C5* G   A1356     233.631 137.948  15.338  1.00 70.17      A16S
ATOM  28639  C4* G   A1356     232.172 137.591  15.119  1.00 70.17      A16S
ATOM  28640  O4* G   A1356     231.922 137.516  13.695  1.00 70.17      A16S
ATOM  28641  C1* G   A1356     231.079 136.414  13.408  1.00 70.17      A16S
ATOM  28642  N9  G   A1356     231.808 135.504  12.519  1.00 83.33      A16S
ATOM  28643  C4  G   A1356     231.312 134.419  11.823  1.00 83.33      A16S
ATOM  28644  N3  G   A1356     230.047 133.952  11.863  1.00 83.33      A16S
ATOM  28645  C2  G   A1356     229.880 132.909  11.061  1.00 83.33      A16S
ATOM  28646  N2  G   A1356     228.683 132.309  10.973  1.00 83.33      A16S
ATOM  28647  N1  G   A1356     230.871 132.373  10.285  1.00 83.33      A16S
ATOM  28648  C6  G   A1356     232.176 132.838  10.223  1.00 83.33      A16S
ATOM  28649  O6  G   A1356     232.991 132.288   9.470  1.00 83.33      A16S
ATOM  28650  C5  G   A1356     232.375 133.946  11.081  1.00 83.33      A16S
ATOM  28651  N7  G   A1356     233.516 134.692  11.323  1.00 83.33      A16S
ATOM  28652  C8  G   A1356     233.137 135.594  12.183  1.00 83.33      A16S
ATOM  28653  C2* G   A1356     230.605 135.835  14.746  1.00 70.17      A16S
ATOM  28654  O2* G   A1356     229.381 136.457  15.084  1.00 70.17      A16S
ATOM  28655  C3* G   A1356     231.729 136.249  15.690  1.00 70.17      A16S
ATOM  28656  O3* G   A1356     231.257 136.412  17.032  1.00 70.17      A16S
ATOM  28657  P   A   A1357     231.394 135.208  18.098  1.00 69.93      A16S
ATOM  28658  O1P A   A1357     231.384 135.838  19.439  1.00 86.16      A16S
ATOM  28659  O2P A   A1357     232.508 134.302  17.726  1.00 86.16      A16S
ATOM  28660  O5* A   A1357     230.036 134.396  17.951  1.00 69.93      A16S
ATOM  28661  C5* A   A1357     228.761 135.028  18.199  1.00 69.93      A16S
ATOM  28662  C4* A   A1357     227.644 134.192  17.622  1.00 69.93      A16S
ATOM  28663  O4* A   A1357     227.804 134.133  16.184  1.00 69.93      A16S
ATOM  28664  C1* A   A1357     227.509 132.829  15.725  1.00 69.93      A16S
ATOM  28665  N9  A   A1357     228.721 132.289  15.099  1.00 86.16      A16S
ATOM  28666  C4  A   A1357     228.792 131.261  14.188  1.00 86.16      A16S
ATOM  28667  N3  A   A1357     227.776 130.536  13.691  1.00 86.16      A16S
ATOM  28668  C2  A   A1357     228.225 129.630  12.833  1.00 86.16      A16S
ATOM  28669  N1  A   A1357     229.476 129.384  12.441  1.00 86.16      A16S
ATOM  28670  C6  A   A1357     230.473 130.131  12.954  1.00 86.16      A16S
ATOM  28671  N6  A   A1357     231.722 129.892  12.555  1.00 86.16      A16S
ATOM  28672  C5  A   A1357     230.132 131.124  13.880  1.00 86.16      A16S
ATOM  28673  N7  A   A1357     230.896 132.044  14.583  1.00 86.16      A16S
ATOM  28674  C8  A   A1357     230.015 132.706  15.290  1.00 86.16      A16S
ATOM  28675  C2* A   A1357     227.001 132.014  16.923  1.00 69.93      A16S
ATOM  28676  O2* A   A1357     225.583 132.076  16.994  1.00 69.93      A16S
ATOM  28677  C3* A   A1357     227.642 132.746  18.091  1.00 69.93      A16S
ATOM  28678  O3* A   A1357     226.847 132.613  19.254  1.00 69.93      A16S
ATOM  28679  P   U   A1358     227.538 132.305  20.665  1.00 55.05      A16S
ATOM  28680  O1P U   A1358     226.515 132.646  21.695  1.00 77.76      A16S
ATOM  28681  O2P U   A1358     228.867 132.967  20.691  1.00 77.76      A16S
ATOM  28682  O5* U   A1358     227.742 130.725  20.689  1.00 55.05      A16S
ATOM  28683  C5* U   A1358     226.618 129.834  20.554  1.00 55.05      A16S
ATOM  28684  C4* U   A1358     227.052 128.536  19.919  1.00 55.05      A16S
ATOM  28685  O4* U   A1358     227.641 128.807  18.634  1.00 55.05      A16S
ATOM  28686  C1* U   A1358     228.530 127.758  18.314  1.00 55.05      A16S
ATOM  28687  N1  U   A1358     229.670 128.287  17.549  1.00 77.76      A16S
ATOM  28688  C6  U   A1358     230.056 129.598  17.647  1.00 77.76      A16S
ATOM  28689  C2  U   A1358     230.340 127.412  16.705  1.00 77.76      A16S
ATOM  28690  O2  U   A1358     230.027 126.243  16.574  1.00 77.76      A16S
ATOM  28691  N3  U   A1358     231.386 127.960  16.013  1.00 77.76      A16S
ATOM  28692  C4  U   A1358     231.818 129.262  16.066  1.00 77.76      A16S
ATOM  28693  O4  U   A1358     232.787 129.605  15.392  1.00 77.76      A16S
ATOM  28694  C5  U   A1358     231.074 130.102  16.950  1.00 77.76      A16S
ATOM  28695  C2* U   A1358     228.848 126.978  19.592  1.00 55.05      A16S
ATOM  28696  O2* U   A1358     228.338 125.669  19.501  1.00 55.05      A16S
ATOM  28697  C3* U   A1358     228.141 127.795  20.668  1.00 55.05      A16S
ATOM  28698  O3* U   A1358     227.531 126.929  21.607  1.00 55.05      A16S
ATOM  28699  P   C   A1359     227.881 127.076  23.164  1.00 64.55      A16S
ATOM  28700  O1P C   A1359     227.264 125.940  23.919  1.00 59.13      A16S
ATOM  28701  O2P C   A1359     227.555 128.494  23.531  1.00 59.13      A16S
ATOM  28702  O5* C   A1359     229.452 126.850  23.210  1.00 64.55      A16S
ATOM  28703  C5* C   A1359     230.007 125.581  22.867  1.00 64.55      A16S
ATOM  28704  C4* C   A1359     231.420 125.753  22.374  1.00 64.55      A16S
ATOM  28705  O4* C   A1359     231.414 126.610  21.208  1.00 64.55      A16S
ATOM  28706  C1* C   A1359     232.631 127.319  21.136  1.00 64.55      A16S
ATOM  28707  N1  C   A1359     232.341 128.742  20.917  1.00 59.13      A16S
ATOM  28708  C6  C   A1359     231.168 129.301  21.336  1.00 59.13      A16S
ATOM  28709  C2  C   A1359     233.286 129.515  20.242  1.00 59.13      A16S
ATOM  28710  O2  C   A1359     234.365 128.988  19.898  1.00 59.13      A16S
ATOM  28711  N3  C   A1359     233.009 130.812  19.971  1.00 59.13      A16S
ATOM  28712  C4  C   A1359     231.844 131.338  20.346  1.00 59.13      A16S
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ATOM  28713  N4  C  A1359     231.592 132.611  20.001  1.00 59.13      A16S
ATOM  28714  C5  C  A1359     230.880 130.582  21.073  1.00 59.13      A16S
ATOM  28715  C2* C  A1359     233.450 126.989  22.378  1.00 64.55      A16S
ATOM  28716  O2* C  A1359     234.394 125.998  22.040  1.00 64.55      A16S
ATOM  28717  C3* C  A1359     232.377 126.455  23.318  1.00 64.55      A16S
ATOM  28718  O3* C  A1359     232.890 125.583  24.316  1.00 64.55      A16S
ATOM  28719  P   A  A1360     233.400 126.206  25.708  1.00 64.42      A16S
ATOM  28720  O1P A  A1360     232.435 127.267  26.111  1.00 64.87      A16S
ATOM  28721  O2P A  A1360     233.680 125.069  26.634  1.00 64.87      A16S
ATOM  28722  O5* A  A1360     234.758 126.936  25.293  1.00 64.42      A16S
ATOM  28723  C5* A  A1360     235.589 127.594  26.261  1.00 64.42      A16S
ATOM  28724  C4* A  A1360     236.944 126.924  26.322  1.00 64.42      A16S
ATOM  28725  O4* A  A1360     236.824 125.621  26.940  1.00 64.42      A16S
ATOM  28726  C1* A  A1360     237.819 124.762  26.420  1.00 64.42      A16S
ATOM  28727  N9  A  A1360     237.225 123.446  26.156  1.00 64.87      A16S
ATOM  28728  C4  A  A1360     237.901 122.301  25.809  1.00 64.87      A16S
ATOM  28729  N3  A  A1360     239.214 122.172  25.581  1.00 64.87      A16S
ATOM  28730  C2  A  A1360     239.520 120.908  25.309  1.00 64.87      A16S
ATOM  28731  N1  A  A1360     238.723 119.840  25.246  1.00 64.87      A16S
ATOM  28732  C6  A  A1360     237.404 120.005  25.481  1.00 64.87      A16S
ATOM  28733  N6  A  A1360     236.606 118.935  25.429  1.00 64.87      A16S
ATOM  28734  C5  A  A1360     236.952 121.298  25.772  1.00 64.87      A16S
ATOM  28735  N7  A  A1360     235.689 121.802  26.047  1.00 64.87      A16S
ATOM  28736  C8  A  A1360     235.901 123.079  26.255  1.00 64.87      A16S
ATOM  28737  C2* A  A1360     238.536 125.475  25.269  1.00 64.42      A16S
ATOM  28738  O2* A  A1360     239.820 125.885  25.687  1.00 64.42      A16S
ATOM  28739  C3* A  A1360     237.604 126.652  24.982  1.00 64.42      A16S
ATOM  28740  O3* A  A1360     238.320 127.798  24.532  1.00 64.42      A16S
ATOM  28741  P   G  A1361     238.442 128.085  22.960  1.00 65.19      A16S
ATOM  28742  O1P G  A1361     239.416 129.191  22.777  1.00 85.17      A16S
ATOM  28743  O2P G  A1361     237.067 128.232  22.407  1.00 85.17      A16S
ATOM  28744  O5* G  A1361     239.091 126.733  22.410  1.00 65.19      A16S
ATOM  28745  C5* G  A1361     240.461 126.396  22.710  1.00 65.19      A16S
ATOM  28746  C4* G  A1361     240.821 125.037  22.143  1.00 65.19      A16S
ATOM  28747  O4* G  A1361     240.263 123.981  22.966  1.00 65.19      A16S
ATOM  28748  C1* G  A1361     239.882 122.887  22.148  1.00 65.19      A16S
ATOM  28749  N9  G  A1361     238.431 122.729  22.244  1.00 85.17      A16S
ATOM  28750  C4  G  A1361     237.730 121.545  22.243  1.00 85.17      A16S
ATOM  28751  N3  G  A1361     238.264 120.306  22.192  1.00 85.17      A16S
ATOM  28752  C2  G  A1361     237.332 119.367  22.175  1.00 85.17      A16S
ATOM  28753  N2  G  A1361     237.682 118.078  22.117  1.00 85.17      A16S
ATOM  28754  N1  G  A1361     235.987 119.619  22.210  1.00 85.17      A16S
ATOM  28755  C6  G  A1361     235.412 120.881  22.260  1.00 85.17      A16S
ATOM  28756  O6  G  A1361     234.181 120.992  22.273  1.00 85.17      A16S
ATOM  28757  C5  G  A1361     236.401 121.906  22.281  1.00 85.17      A16S
ATOM  28758  N7  G  A1361     236.266 123.288  22.331  1.00 85.17      A16S
ATOM  28759  C8  G  A1361     237.491 123.733  22.314  1.00 85.17      A16S
ATOM  28760  C2* G  A1361     240.304 123.215  20.714  1.00 65.19      A16S
ATOM  28761  O2* G  A1361     241.559 122.637  20.427  1.00 65.19      A16S
ATOM  28762  C3* G  A1361     240.326 124.737  20.739  1.00 65.19      A16S
ATOM  28763  O3* G  A1361     241.147 125.293  19.728  1.00 65.19      A16S
ATOM  28764  P   C  A1361A    240.462 125.883  18.399  1.00 62.68      A16S
ATOM  28765  O1P C  A1361A    241.528 126.478  17.558  1.00 90.94      A16S
ATOM  28766  O2P C  A1361A    239.306 126.719  18.806  1.00 90.94      A16S
ATOM  28767  O5* C  A1361A    239.916 124.579  17.666  1.00 62.68      A16S
ATOM  28768  C5* C  A1361A    240.819 123.509  17.327  1.00 62.68      A16S
ATOM  28769  C4* C  A1361A    240.068 122.303  16.805  1.00 62.68      A16S
ATOM  28770  O4* C  A1361A    239.337 121.654  17.878  1.00 62.68      A16S
ATOM  28771  C1* C  A1361A    238.159 121.062  17.355  1.00 62.68      A16S
ATOM  28772  N1  C  A1361A    236.994 121.676  18.016  1.00 90.94      A16S
ATOM  28773  C6  C  A1361A    236.949 123.025  18.236  1.00 90.94      A16S
ATOM  28774  C2  C  A1361A    235.922 120.862  18.407  1.00 90.94      A16S
ATOM  28775  O2  C  A1361A    235.984 119.635  18.210  1.00 90.94      A16S
ATOM  28776  N3  C  A1361A    234.846 121.432  18.991  1.00 90.94      A16S
ATOM  28777  C4  C  A1361A    234.815 122.753  19.194  1.00 90.94      A16S
ATOM  28778  N4  C  A1361A    233.731 123.273  19.778  1.00 90.94      A16S
ATOM  28779  C5  C  A1361A    235.891 123.597  18.812  1.00 90.94      A16S
ATOM  28780  C2* C  A1361A    238.155 121.296  15.841  1.00 62.68      A16S
ATOM  28781  O2* C  A1361A    238.740 120.190  15.190  1.00 62.68      A16S
ATOM  28782  C3* C  A1361A    239.034 122.530  15.712  1.00 62.68      A16S
ATOM  28783  O3* C  A1361A    239.624 122.606  14.425  1.00 62.68      A16S
ATOM  28784  P   C  A1362     238.755 123.133  13.175  1.00 59.30      A16S
ATOM  28785  O1P C  A1362     239.659 123.974  12.345  1.00 70.48      A16S
ATOM  28786  O2P C  A1362     237.474 123.708  13.644  1.00 70.48      A16S
ATOM  28787  O5* C  A1362     238.503 121.796  12.346  1.00 59.30      A16S
ATOM  28788  C5* C  A1362     237.261 121.087  12.410  1.00 59.30      A16S
ATOM  28789  C4* C  A1362     237.456 119.663  11.953  1.00 59.30      A16S
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ATOM  28790  O4*  C   A1362     238.111 118.909  13.000  1.00 59.30      A16S
ATOM  28791  C1*  C   A1362     237.746 117.552  12.884  1.00 59.30      A16S
ATOM  28792  N1   C   A1362     237.472 116.979  14.211  1.00 70.48      A16S
ATOM  28793  C6   C   A1362     236.967 117.734  15.232  1.00 70.48      A16S
ATOM  28794  C2   C   A1362     237.730 115.617  14.404  1.00 70.48      A16S
ATOM  28795  O2   C   A1362     238.224 114.960  13.467  1.00 70.48      A16S
ATOM  28796  N3   C   A1362     237.444 115.046  15.598  1.00 70.48      A16S
ATOM  28797  C4   C   A1362     236.931 115.784  16.582  1.00 70.48      A16S
ATOM  28798  N4   C   A1362     236.639 115.169  17.737  1.00 70.48      A16S
ATOM  28799  C5   C   A1362     236.686 117.184  16.425  1.00 70.48      A16S
ATOM  28800  C2*  C   A1362     236.588 117.440  11.890  1.00 59.30      A16S
ATOM  28801  O2*  C   A1362     237.054 116.853  10.691  1.00 59.30      A16S
ATOM  28802  C3*  C   A1362     236.169 118.895  11.702  1.00 59.30      A16S
ATOM  28803  O3*  C   A1362     235.738 119.091  10.358  1.00 59.30      A16S
ATOM  28804  P    A   A1363     234.707 120.269  10.007  1.00 61.38      A16S
ATOM  28805  O1P  A   A1363     233.787 120.438  11.160  1.00 97.06      A16S
ATOM  28806  O2P  A   A1363     234.152 119.963   8.673  1.00 97.06      A16S
ATOM  28807  O5*  A   A1363     235.624 121.564   9.875  1.00 61.38      A16S
ATOM  28808  C5*  A   A1363     236.235 121.883   8.624  1.00 61.38      A16S
ATOM  28809  C4*  A   A1363     235.980 123.324   8.275  1.00 61.38      A16S
ATOM  28810  O4*  A   A1363     234.593 123.628   8.546  1.00 61.38      A16S
ATOM  28811  C1*  A   A1363     234.490 124.679   9.486  1.00 61.38      A16S
ATOM  28812  N9   A   A1363     233.417 124.323  10.420  1.00 97.06      A16S
ATOM  28813  C4   A   A1363     232.924 125.063  11.469  1.00 97.06      A16S
ATOM  28814  N3   A   A1363     233.311 126.286  11.863  1.00 97.06      A16S
ATOM  28815  C2   A   A1363     232.616 126.677  12.926  1.00 97.06      A16S
ATOM  28816  N1   A   A1363     231.655 126.033  13.591  1.00 97.06      A16S
ATOM  28817  C6   A   A1363     231.293 124.804  13.168  1.00 97.06      A16S
ATOM  28818  N6   A   A1363     230.341 124.148  13.834  1.00 97.06      A16S
ATOM  28819  C5   A   A1363     231.945 124.282  12.050  1.00 97.06      A16S
ATOM  28820  N7   A   A1363     231.809 123.080  11.377  1.00 97.06      A16S
ATOM  28821  C8   A   A1363     232.698 123.154  10.423  1.00 97.06      A16S
ATOM  28822  C2*  A   A1363     235.864 124.826  10.142  1.00 61.38      A16S
ATOM  28823  O2*  A   A1363     236.128 126.186  10.464  1.00 61.38      A16S
ATOM  28824  C3*  A   A1363     236.801 124.347   9.038  1.00 61.38      A16S
ATOM  28825  O3*  A   A1363     237.066 125.418   8.152  1.00 61.38      A16S
ATOM  28826  P    U   A1364     238.218 125.267   7.054  1.00 50.76      A16S
ATOM  28827  O1P  U   A1364     238.802 126.624   6.847  1.00 66.35      A16S
ATOM  28828  O2P  U   A1364     239.090 124.123   7.464  1.00 66.35      A16S
ATOM  28829  O5*  U   A1364     237.450 124.862   5.720  1.00 50.76      A16S
ATOM  28830  C5*  U   A1364     237.390 125.758   4.578  1.00 50.76      A16S
ATOM  28831  C4*  U   A1364     236.697 125.070   3.420  1.00 50.76      A16S
ATOM  28832  O4*  U   A1364     237.487 123.918   3.029  1.00 50.76      A16S
ATOM  28833  C1*  U   A1364     236.722 122.741   3.164  1.00 50.76      A16S
ATOM  28834  N1   U   A1364     237.610 121.699   3.690  1.00 66.35      A16S
ATOM  28835  C6   U   A1364     238.382 121.924   4.797  1.00 66.35      A16S
ATOM  28836  C2   U   A1364     237.652 120.489   3.024  1.00 66.35      A16S
ATOM  28837  O2   U   A1364     236.967 120.243   2.048  1.00 66.35      A16S
ATOM  28838  N3   U   A1364     238.529 119.575   3.545  1.00 66.35      A16S
ATOM  28839  C4   U   A1364     239.347 119.746   4.641  1.00 66.35      A16S
ATOM  28840  O4   U   A1364     240.147 118.861   4.943  1.00 66.35      A16S
ATOM  28841  C5   U   A1364     239.224 121.016   5.283  1.00 66.35      A16S
ATOM  28842  C2*  U   A1364     235.539 123.080   4.070  1.00 50.76      A16S
ATOM  28843  O2*  U   A1364     234.424 122.264   3.783  1.00 50.76      A16S
ATOM  28844  C3*  U   A1364     235.298 124.546   3.725  1.00 50.76      A16S
ATOM  28845  O3*  U   A1364     234.521 124.627   2.542  1.00 50.76      A16S
ATOM  28846  P    G   A1365     233.144 125.438   2.550  1.00 48.19      A16S
ATOM  28847  O1P  G   A1365     232.463 125.173   1.254  1.00 84.99      A16S
ATOM  28848  O2P  G   A1365     233.444 126.839   2.949  1.00 84.99      A16S
ATOM  28849  O5*  G   A1365     232.320 124.738   3.717  1.00 48.19      A16S
ATOM  28850  C5*  G   A1365     231.640 123.497   3.493  1.00 48.19      A16S
ATOM  28851  C4*  G   A1365     230.428 123.414   4.377  1.00 48.19      A16S
ATOM  28852  O4*  G   A1365     230.856 123.207   5.744  1.00 48.19      A16S
ATOM  28853  C1*  G   A1365     230.016 123.947   6.619  1.00 48.19      A16S
ATOM  28854  N9   G   A1365     230.829 124.920   7.359  1.00 84.99      A16S
ATOM  28855  C4   G   A1365     230.410 125.724   8.401  1.00 84.99      A16S
ATOM  28856  N3   G   A1365     229.171 125.757   8.932  1.00 84.99      A16S
ATOM  28857  C2   G   A1365     229.073 126.653   9.893  1.00 84.99      A16S
ATOM  28858  N2   G   A1365     227.911 126.831  10.517  1.00 84.99      A16S
ATOM  28859  N1   G   A1365     230.105 127.445  10.310  1.00 84.99      A16S
ATOM  28860  C6   G   A1365     231.387 127.430   9.779  1.00 84.99      A16S
ATOM  28861  O6   G   A1365     232.243 128.198  10.220  1.00 84.99      A16S
ATOM  28862  C5   G   A1365     231.509 126.479   8.745  1.00 84.99      A16S
ATOM  28863  N7   G   A1365     232.598 126.155   7.952  1.00 84.99      A16S
ATOM  28864  C8   G   A1365     232.152 125.228   7.149  1.00 84.99      A16S
ATOM  28865  C2*  G   A1365     228.924 124.610   5.769  1.00 48.19      A16S
ATOM  28866  O2*  G   A1365     227.768 123.800   5.733  1.00 48.19      A16S
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ATOM  28867  C3* G   A1365     229.588 124.682   4.410  1.00 48.19      A16S
ATOM  28868  O3* G   A1365     228.609 124.708   3.391  1.00 48.19      A16S
ATOM  28869  P    C   A1366     228.020 126.114   2.900  1.00 55.43      A16S
ATOM  28870  O1P C   A1366     226.925 125.835   1.943  1.00 75.70      A16S
ATOM  28871  O2P C   A1366     229.144 126.990   2.493  1.00 75.70      A16S
ATOM  28872  O5* C   A1366     227.364 126.723   4.213  1.00 55.43      A16S
ATOM  28873  C5* C   A1366     226.152 126.163   4.752  1.00 55.43      A16S
ATOM  28874  C4* C   A1366     225.596 127.048   5.846  1.00 55.43      A16S
ATOM  28875  O4* C   A1366     226.450 126.991   7.015  1.00 55.43      A16S
ATOM  28876  C1* C   A1366     226.494 128.267   7.627  1.00 55.43      A16S
ATOM  28877  N1   C   A1366     227.900 128.725   7.622  1.00 75.70      A16S
ATOM  28878  C6   C   A1366     228.820 128.136   6.799  1.00 75.70      A16S
ATOM  28879  C2   C   A1366     228.285 129.767   8.473  1.00 75.70      A16S
ATOM  28880  O2   C   A1366     227.431 130.316   9.189  1.00 75.70      A16S
ATOM  28881  N3   C   A1366     229.576 130.158   8.486  1.00 75.70      A16S
ATOM  28882  C4   C   A1366     230.462 129.563   7.690  1.00 75.70      A16S
ATOM  28883  N4   C   A1366     231.722 129.968   7.753  1.00 75.70      A16S
ATOM  28884  C5   C   A1366     230.095 128.524   6.800  1.00 75.70      A16S
ATOM  28885  C2* C   A1366     225.532 129.191   6.863  1.00 55.43      A16S
ATOM  28886  O2* C   A1366     224.265 129.229   7.496  1.00 55.43      A16S
ATOM  28887  C3* C   A1366     225.457 128.521   5.501  1.00 55.43      A16S
ATOM  28888  O3* C   A1366     224.192 128.752   4.921  1.00 55.43      A16S
ATOM  28889  P    C   A1367     223.935 130.087   4.080  1.00 40.42      A16S
ATOM  28890  O1P C   A1367     222.534 130.034   3.596  1.00103.01      A16S
ATOM  28891  O2P C   A1367     225.043 130.224   3.105  1.00103.01      A16S
ATOM  28892  O5* C   A1367     224.042 131.262   5.154  1.00 40.42      A16S
ATOM  28893  C5* C   A1367     222.978 131.506   6.122  1.00 40.42      A16S
ATOM  28894  C4* C   A1367     223.340 132.662   7.034  1.00 40.42      A16S
ATOM  28895  O4* C   A1367     224.483 132.291   7.844  1.00 40.42      A16S
ATOM  28896  C1* C   A1367     225.330 133.419   8.011  1.00 40.42      A16S
ATOM  28897  N1   C   A1367     226.695 133.104   7.535  1.00103.01      A16S
ATOM  28898  C6   C   A1367     226.917 132.129   6.604  1.00103.01      A16S
ATOM  28899  C2   C   A1367     227.771 133.835   8.055  1.00103.01      A16S
ATOM  28900  O2   C   A1367     227.548 134.728   8.886  1.00103.01      A16S
ATOM  28901  N3   C   A1367     229.024 133.561   7.632  1.00103.01      A16S
ATOM  28902  C4   C   A1367     229.228 132.612   6.722  1.00103.01      A16S
ATOM  28903  N4   C   A1367     230.483 132.383   6.330  1.00103.01      A16S
ATOM  28904  C5   C   A1367     228.156 131.855   6.171  1.00103.01      A16S
ATOM  28905  C2* C   A1367     224.703 134.610   7.285  1.00 40.42      A16S
ATOM  28906  O2* C   A1367     224.037 135.422   8.220  1.00 40.42      A16S
ATOM  28907  C3* C   A1367     223.760 133.929   6.310  1.00 40.42      A16S
ATOM  28908  O3* C   A1367     222.664 134.763   6.032  1.00 40.42      A16S
ATOM  28909  P    G   A1368     222.734 135.732   4.761  1.00 46.30      A16S
ATOM  28910  O1P G   A1368     221.531 136.608   4.736  1.00 83.17      A16S
ATOM  28911  O2P G   A1368     223.029 134.867   3.601  1.00 83.17      A16S
ATOM  28912  O5* G   A1368     224.019 136.641   5.027  1.00 46.30      A16S
ATOM  28913  C5* G   A1368     223.922 137.756   5.927  1.00 46.30      A16S
ATOM  28914  C4* G   A1368     225.275 138.378   6.243  1.00 46.30      A16S
ATOM  28915  O4* G   A1368     226.201 137.422   6.832  1.00 46.30      A16S
ATOM  28916  C1* G   A1368     227.513 137.945   6.724  1.00 46.30      A16S
ATOM  28917  N9   G   A1368     228.410 136.961   6.125  1.00 83.17      A16S
ATOM  28918  C4   G   A1368     229.768 137.127   5.961  1.00 83.17      A16S
ATOM  28919  N3   G   A1368     230.491 138.194   6.375  1.00 83.17      A16S
ATOM  28920  C2   G   A1368     231.763 138.093   6.036  1.00 83.17      A16S
ATOM  28921  N2   G   A1368     232.619 139.069   6.366  1.00 83.17      A16S
ATOM  28922  N1   G   A1368     232.288 137.032   5.346  1.00 83.17      A16S
ATOM  28923  C6   G   A1368     231.570 135.924   4.906  1.00 83.17      A16S
ATOM  28924  O6   G   A1368     232.149 135.028   4.275  1.00 83.17      A16S
ATOM  28925  C5   G   A1368     230.193 136.014   5.273  1.00 83.17      A16S
ATOM  28926  N7   G   A1368     229.135 135.142   5.045  1.00 83.17      A16S
ATOM  28927  C8   G   A1368     228.101 135.741   5.575  1.00 83.17      A16S
ATOM  28928  C2* G   A1368     227.442 139.207   5.853  1.00 46.30      A16S
ATOM  28929  O2* G   A1368     227.459 140.334   6.694  1.00 46.30      A16S
ATOM  28930  C3* G   A1368     226.092 139.066   5.159  1.00 46.30      A16S
ATOM  28931  O3* G   A1368     225.583 140.364   4.854  1.00 46.30      A16S
ATOM  28932  P    C   A1369     226.241 141.232   3.663  1.00 42.85      A16S
ATOM  28933  O1P C   A1369     225.607 142.574   3.665  1.00 73.88      A16S
ATOM  28934  O2P C   A1369     226.280 140.456   2.405  1.00 73.88      A16S
ATOM  28935  O5* C   A1369     227.748 141.424   4.134  1.00 42.85      A16S
ATOM  28936  C5* C   A1369     228.100 142.442   5.105  1.00 42.85      A16S
ATOM  28937  C4* C   A1369     229.529 142.884   4.910  1.00 42.85      A16S
ATOM  28938  O4* C   A1369     230.414 141.771   5.190  1.00 42.85      A16S
ATOM  28939  C1* C   A1369     231.526 141.826   4.315  1.00 42.85      A16S
ATOM  28940  N1   C   A1369     231.614 140.544   3.587  1.00 73.88      A16S
ATOM  28941  C6   C   A1369     230.504 139.768   3.398  1.00 73.88      A16S
ATOM  28942  C2   C   A1369     232.857 140.123   3.103  1.00 73.88      A16S
ATOM  28943  O2   C   A1369     233.843 140.854   3.249  1.00 73.88      A16S
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ATOM  28944  N3   C   A1369     232.950 138.931   2.483  1.00 73.88      A16S
ATOM  28945  C4   C   A1369     231.867 138.172   2.328  1.00 73.88      A16S
ATOM  28946  N4   C   A1369     232.016 136.989   1.737  1.00 73.88      A16S
ATOM  28947  C5   C   A1369     230.586 138.588   2.780  1.00 73.88      A16S
ATOM  28948  C2*  C   A1369     231.373 143.066   3.423  1.00 42.85      A16S
ATOM  28949  O2*  C   A1369     232.117 144.129   3.967  1.00 42.85      A16S
ATOM  28950  C3*  C   A1369     229.881 143.338   3.503  1.00 42.85      A16S
ATOM  28951  O3*  C   A1369     229.619 144.717   3.355  1.00 42.85      A16S
ATOM  28952  P    G   A1370     229.254 145.309   1.908  1.00 52.09      A16S
ATOM  28953  O1P  G   A1370     228.694 146.675   2.087  1.00111.22      A16S
ATOM  28954  O2P  G   A1370     228.436 144.273   1.224  1.00111.22      A16S
ATOM  28955  O5*  G   A1370     230.661 145.442   1.151  1.00 52.09      A16S
ATOM  28956  C5*  G   A1370     231.568 146.540   1.430  1.00 52.09      A16S
ATOM  28957  C4*  G   A1370     233.009 146.154   1.125  1.00 52.09      A16S
ATOM  28958  O4*  G   A1370     233.279 144.847   1.694  1.00 52.09      A16S
ATOM  28959  C1*  G   A1370     234.222 144.156   0.891  1.00 52.09      A16S
ATOM  28960  N9   G   A1370     233.630 142.898   0.435  1.00111.22      A16S
ATOM  28961  C4   G   A1370     234.303 141.833  -0.128  1.00111.22      A16S
ATOM  28962  N3   G   A1370     235.637 141.749  -0.322  1.00111.22      A16S
ATOM  28963  C2   G   A1370     235.982 140.616  -0.908  1.00111.22      A16S
ATOM  28964  N2   G   A1370     237.271 140.372  -1.169  1.00111.22      A16S
ATOM  28965  N1   G   A1370     235.089 139.641  -1.282  1.00111.22      A16S
ATOM  28966  C6   G   A1370     233.713 139.701  -1.094  1.00111.22      A16S
ATOM  28967  O6   G   A1370     232.996 138.764  -1.475  1.00111.22      A16S
ATOM  28968  C5   G   A1370     233.328 140.914  -0.454  1.00111.22      A16S
ATOM  28969  N7   G   A1370     232.073 141.374  -0.078  1.00111.22      A16S
ATOM  28970  C8   G   A1370     232.300 142.547   0.447  1.00111.22      A16S
ATOM  28971  C2*  G   A1370     234.606 145.073  -0.271  1.00 52.09      A16S
ATOM  28972  O2*  G   A1370     235.797 145.746   0.039  1.00 52.09      A16S
ATOM  28973  C3*  G   A1370     233.420 146.023  -0.334  1.00 52.09      A16S
ATOM  28974  O3*  G   A1370     233.832 147.264  -0.887  1.00 52.09      A16S
ATOM  28975  P    G   A1371     234.057 147.385  -2.475  1.00 58.94      A16S
ATOM  28976  O1P  G   A1371     234.331 148.790  -2.827  1.00 68.92      A16S
ATOM  28977  O2P  G   A1371     232.938 146.677  -3.132  1.00 68.92      A16S
ATOM  28978  O5*  G   A1371     235.391 146.549  -2.729  1.00 58.94      A16S
ATOM  28979  C5*  G   A1371     236.659 146.998  -2.197  1.00 58.94      A16S
ATOM  28980  C4*  G   A1371     237.817 146.252  -2.834  1.00 58.94      A16S
ATOM  28981  O4*  G   A1371     237.915 144.899  -2.328  1.00 58.94      A16S
ATOM  28982  C1*  G   A1371     238.392 144.041  -3.351  1.00 58.94      A16S
ATOM  28983  N9   G   A1371     237.394 142.996  -3.582  1.00 68.92      A16S
ATOM  28984  C4   G   A1371     237.510 141.927  -4.439  1.00 68.92      A16S
ATOM  28985  N3   G   A1371     238.580 141.639  -5.199  1.00 68.92      A16S
ATOM  28986  C2   G   A1371     238.386 140.567  -5.934  1.00 68.92      A16S
ATOM  28987  N2   G   A1371     239.355 140.134  -6.736  1.00 68.92      A16S
ATOM  28988  N1   G   A1371     237.233 139.838  -5.938  1.00 68.92      A16S
ATOM  28989  C6   G   A1371     236.114 140.110  -5.170  1.00 68.92      A16S
ATOM  28990  O6   G   A1371     235.112 139.379  -5.260  1.00 68.92      A16S
ATOM  28991  C5   G   A1371     236.311 141.258  -4.356  1.00 68.92      A16S
ATOM  28992  N7   G   A1371     235.466 141.874  -3.445  1.00 68.92      A16S
ATOM  28993  C8   G   A1371     236.149 142.897  -3.011  1.00 68.92      A16S
ATOM  28994  C2*  G   A1371     238.653 144.899  -4.595  1.00 58.94      A16S
ATOM  28995  O2*  G   A1371     240.012 145.262  -4.659  1.00 58.94      A16S
ATOM  28996  C3*  G   A1371     237.770 146.110  -4.342  1.00 58.94      A16S
ATOM  28997  O3*  G   A1371     238.304 147.261  -4.962  1.00 58.94      A16S
ATOM  28998  P    U   A1372     237.808 147.670  -6.426  1.00 45.92      A16S
ATOM  28999  O1P  U   A1372     238.642 148.812  -6.883  1.00 68.87      A16S
ATOM  29000  O2P  U   A1372     236.332 147.811  -6.397  1.00 68.87      A16S
ATOM  29001  O5*  U   A1372     238.196 146.410  -7.314  1.00 45.92      A16S
ATOM  29002  C5*  U   A1372     239.549 146.212  -7.730  1.00 45.92      A16S
ATOM  29003  C4*  U   A1372     239.626 145.134  -8.773  1.00 45.92      A16S
ATOM  29004  O4*  U   A1372     239.332 143.862  -8.155  1.00 45.92      A16S
ATOM  29005  C1*  U   A1372     238.666 143.036  -9.090  1.00 45.92      A16S
ATOM  29006  N1   U   A1372     237.345 142.666  -8.557  1.00 68.87      A16S
ATOM  29007  C6   U   A1372     236.620 143.503  -7.739  1.00 68.87      A16S
ATOM  29008  C2   U   A1372     236.844 141.453  -8.934  1.00 68.87      A16S
ATOM  29009  O2   U   A1372     237.471 140.677  -9.625  1.00 68.87      A16S
ATOM  29010  N3   U   A1372     235.584 141.179  -8.477  1.00 68.87      A16S
ATOM  29011  C4   U   A1372     234.795 141.978  -7.693  1.00 68.87      A16S
ATOM  29012  O4   U   A1372     233.635 141.644  -7.472  1.00 68.87      A16S
ATOM  29013  C5   U   A1372     235.395 143.207  -7.308  1.00 68.87      A16S
ATOM  29014  C2*  U   A1372     238.539 143.809 -10.406  1.00 45.92      A16S
ATOM  29015  O2*  U   A1372     239.578 143.448 -11.288  1.00 45.92      A16S
ATOM  29016  C3*  U   A1372     238.660 145.249  -9.942  1.00 45.92      A16S
ATOM  29017  O3*  U   A1372     239.195 146.047 -10.980  1.00 45.92      A16S
ATOM  29018  P    G   A1373     238.219 146.695 -12.081  1.00 55.77      A16S
ATOM  29019  O1P  G   A1373     239.036 147.077 -13.263  1.00 80.28      A16S
ATOM  29020  O2P  G   A1373     237.373 147.717 -11.421  1.00 80.28      A16S
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ATOM  29021  O5*  G   A1373     237.283 145.487 -12.517  1.00 55.77      A16S
ATOM  29022  C5*  G   A1373     237.801 144.389 -13.290  1.00 55.77      A16S
ATOM  29023  C4*  G   A1373     236.721 143.364 -13.523  1.00 55.77      A16S
ATOM  29024  O4*  G   A1373     236.348 142.731 -12.268  1.00 55.77      A16S
ATOM  29025  C1*  G   A1373     234.953 142.463 -12.271  1.00 55.77      A16S
ATOM  29026  N9   G   A1373     234.339 143.205 -11.173  1.00 80.28      A16S
ATOM  29027  C4   G   A1373     233.181 142.878 -10.508  1.00 80.28      A16S
ATOM  29028  N3   G   A1373     232.416 141.794 -10.739  1.00 80.28      A16S
ATOM  29029  C2   G   A1373     231.375 141.750  -9.934  1.00 80.28      A16S
ATOM  29030  N2   G   A1373     230.504 140.736 -10.017  1.00 80.28      A16S
ATOM  29031  N1   G   A1373     231.105 142.697  -8.984  1.00 80.28      A16S
ATOM  29032  C6   G   A1373     231.868 143.825  -8.735  1.00 80.28      A16S
ATOM  29033  O6   G   A1373     231.517 144.620  -7.858  1.00 80.28      A16S
ATOM  29034  C5   G   A1373     232.993 143.883  -9.583  1.00 80.28      A16S
ATOM  29035  N7   G   A1373     234.012 144.818  -9.659  1.00 80.28      A16S
ATOM  29036  C8   G   A1373     234.787 144.376 -10.612  1.00 80.28      A16S
ATOM  29037  C2*  G   A1373     234.397 142.900 -13.629  1.00 55.77      A16S
ATOM  29038  O2*  G   A1373     234.357 141.810 -14.525  1.00 55.77      A16S
ATOM  29039  C3*  G   A1373     235.422 143.933 -14.062  1.00 55.77      A16S
ATOM  29040  O3*  G   A1373     235.464 144.098 -15.464  1.00 55.77      A16S
ATOM  29041  P    A   A1374     234.225 144.792 -16.209  1.00 48.26      A16S
ATOM  29042  O1P  A   A1374     234.606 145.064 -17.623  1.00 88.38      A16S
ATOM  29043  O2P  A   A1374     233.733 145.907 -15.361  1.00 88.38      A16S
ATOM  29044  O5*  A   A1374     233.127 143.643 -16.176  1.00 48.26      A16S
ATOM  29045  C5*  A   A1374     232.464 143.222 -17.372  1.00 48.26      A16S
ATOM  29046  C4*  A   A1374     233.148 142.008 -17.933  1.00 48.26      A16S
ATOM  29047  O4*  A   A1374     233.240 140.987 -16.911  1.00 48.26      A16S
ATOM  29048  C1*  A   A1374     233.040 139.712 -17.492  1.00 48.26      A16S
ATOM  29049  N9   A   A1374     231.852 139.110 -16.882  1.00 88.38      A16S
ATOM  29050  C4   A   A1374     231.298 137.897 -17.208  1.00 88.38      A16S
ATOM  29051  N3   A   A1374     231.737 137.023 -18.126  1.00 88.38      A16S
ATOM  29052  C2   A   A1374     230.932 135.970 -18.191  1.00 88.38      A16S
ATOM  29053  N1   A   A1374     229.818 135.709 -17.496  1.00 88.38      A16S
ATOM  29054  C6   A   A1374     229.405 136.607 -16.581  1.00 88.38      A16S
ATOM  29055  N6   A   A1374     228.293 136.345 -15.894  1.00 88.38      A16S
ATOM  29056  C5   A   A1374     230.176 137.768 -16.413  1.00 88.38      A16S
ATOM  29057  N7   A   A1374     230.035 138.870 -15.584  1.00 88.38      A16S
ATOM  29058  C8   A   A1374     231.052 139.631 -15.897  1.00 88.38      A16S
ATOM  29059  C2*  A   A1374     232.895 139.913 -19.004  1.00 48.26      A16S
ATOM  29060  O2*  A   A1374     234.159 139.740 -19.604  1.00 48.26      A16S
ATOM  29061  C3*  A   A1374     232.414 141.352 -19.082  1.00 48.26      A16S
ATOM  29062  O3*  A   A1374     232.745 141.979 -20.306  1.00 48.26      A16S
ATOM  29063  P    A   A1375     231.649 142.062 -21.467  1.00 44.18      A16S
ATOM  29064  O1P  A   A1375     232.284 142.635 -22.691  1.00 69.30      A16S
ATOM  29065  O2P  A   A1375     230.422 142.690 -20.927  1.00 69.30      A16S
ATOM  29066  O5*  A   A1375     231.339 140.530 -21.753  1.00 44.18      A16S
ATOM  29067  C5*  A   A1375     232.297 139.704 -22.442  1.00 44.18      A16S
ATOM  29068  C4*  A   A1375     231.706 138.347 -22.742  1.00 44.18      A16S
ATOM  29069  O4*  A   A1375     231.440 137.648 -21.498  1.00 44.18      A16S
ATOM  29070  C1*  A   A1375     230.239 136.909 -21.616  1.00 44.18      A16S
ATOM  29071  N9   A   A1375     229.282 137.435 -20.635  1.00 69.30      A16S
ATOM  29072  C4   A   A1375     228.078 136.875 -20.277  1.00 69.30      A16S
ATOM  29073  N3   A   A1375     227.532 135.744 -20.749  1.00 69.30      A16S
ATOM  29074  C2   A   A1375     226.357 135.517 -20.177  1.00 69.30      A16S
ATOM  29075  N1   A   A1375     225.711 136.237 -19.259  1.00 69.30      A16S
ATOM  29076  C6   A   A1375     226.285 137.370 -18.806  1.00 69.30      A16S
ATOM  29077  N6   A   A1375     225.635 138.094 -17.892  1.00 69.30      A16S
ATOM  29078  C5   A   A1375     227.536 137.721 -19.331  1.00 69.30      A16S
ATOM  29079  N7   A   A1375     228.378 138.795 -19.091  1.00 69.30      A16S
ATOM  29080  C8   A   A1375     229.395 138.581 -19.886  1.00 69.30      A16S
ATOM  29081  C2*  A   A1375     229.761 137.038 -23.066  1.00 44.18      A16S
ATOM  29082  O2*  A   A1375     230.285 135.971 -23.833  1.00 44.18      A16S
ATOM  29083  C3*  A   A1375     230.381 138.361 -23.483  1.00 44.18      A16S
ATOM  29084  O3*  A   A1375     230.575 138.421 -24.885  1.00 44.18      A16S
ATOM  29085  P    U   A1376     229.493 139.174 -25.808  1.00 58.14      A16S
ATOM  29086  O1P  U   A1376     229.904 139.025 -27.234  1.00 65.86      A16S
ATOM  29087  O2P  U   A1376     229.271 140.534 -25.245  1.00 65.86      A16S
ATOM  29088  O5*  U   A1376     228.162 138.319 -25.607  1.00 58.14      A16S
ATOM  29089  C5*  U   A1376     228.107 136.925 -25.992  1.00 58.14      A16S
ATOM  29090  C4*  U   A1376     226.803 136.304 -25.548  1.00 58.14      A16S
ATOM  29091  O4*  U   A1376     226.768 136.185 -24.104  1.00 58.14      A16S
ATOM  29092  C1*  U   A1376     225.441 136.392 -23.647  1.00 58.14      A16S
ATOM  29093  N1   U   A1376     225.422 137.523 -22.702  1.00 65.86      A16S
ATOM  29094  C6   U   A1376     226.396 138.488 -22.711  1.00 65.86      A16S
ATOM  29095  C2   U   A1376     224.374 137.590 -21.796  1.00 65.86      A16S
ATOM  29096  O2   U   A1376     223.486 136.757 -21.738  1.00 65.86      A16S
ATOM  29097  N3   U   A1376     224.403 138.670 -20.958  1.00 65.86      A16S
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ATOM  29098  C4  U  A1376     225.339 139.662 -20.922  1.00 65.86      A16S
ATOM  29099  O4  U  A1376     225.230 140.556 -20.089  1.00 65.86      A16S
ATOM  29100  C5  U  A1376     226.389 139.526 -21.875  1.00 65.86      A16S
ATOM  29101  C2* U  A1376     224.548 136.631 -24.867  1.00 58.14      A16S
ATOM  29102  O2* U  A1376     223.911 135.429 -25.243  1.00 58.14      A16S
ATOM  29103  C3* U  A1376     225.555 137.094 -25.904  1.00 58.14      A16S
ATOM  29104  O3* U  A1376     225.113 136.804 -27.218  1.00 58.14      A16S
ATOM  29105  P   A  A1377     224.078 137.794 -27.937  1.00 39.36      A16S
ATOM  29106  O1P A  A1377     223.976 137.386 -29.367  1.00 64.10      A16S
ATOM  29107  O2P A  A1377     224.460 139.193 -27.594  1.00 64.10      A16S
ATOM  29108  O5* A  A1377     222.697 137.485 -27.203  1.00 39.36      A16S
ATOM  29109  C5* A  A1377     221.947 136.288 -27.494  1.00 39.36      A16S
ATOM  29110  C4* A  A1377     220.635 136.283 -26.738  1.00 39.36      A16S
ATOM  29111  O4* A  A1377     220.882 136.085 -25.321  1.00 39.36      A16S
ATOM  29112  C1* A  A1377     219.890 136.754 -24.566  1.00 39.36      A16S
ATOM  29113  N9  A  A1377     220.521 137.755 -23.707  1.00 64.10      A16S
ATOM  29114  C4  A  A1377     220.077 138.124 -22.466  1.00 64.10      A16S
ATOM  29115  N3  A  A1377     219.047 137.604 -21.790  1.00 64.10      A16S
ATOM  29116  C2  A  A1377     218.879 138.242 -20.639  1.00 64.10      A16S
ATOM  29117  N1  A  A1377     219.572 139.265 -20.127  1.00 64.10      A16S
ATOM  29118  C6  A  A1377     220.600 139.764 -20.839  1.00 64.10      A16S
ATOM  29119  N6  A  A1377     221.281 140.790 -20.337  1.00 64.10      A16S
ATOM  29120  C5  A  A1377     220.886 139.169 -22.071  1.00 64.10      A16S
ATOM  29121  N7  A  A1377     221.856 139.427 -23.024  1.00 64.10      A16S
ATOM  29122  C8  A  A1377     221.605 138.556 -23.967  1.00 64.10      A16S
ATOM  29123  C2* A  A1377     218.942 137.435 -25.549  1.00 39.36      A16S
ATOM  29124  O2* A  A1377     217.807 136.622 -25.743  1.00 39.36      A16S
ATOM  29125  C3* A  A1377     219.803 137.549 -26.797  1.00 39.36      A16S
ATOM  29126  O3* A  A1377     219.001 137.639 -27.962  1.00 39.36      A16S
ATOM  29127  P   C  A1378     218.028 138.906 -28.148  1.00 55.16      A16S
ATOM  29128  O1P C  A1378     218.839 140.151 -28.140  1.00 52.07      A16S
ATOM  29129  O2P C  A1378     216.913 138.748 -27.183  1.00 52.07      A16S
ATOM  29130  O5* C  A1378     217.452 138.754 -29.617  1.00 55.16      A16S
ATOM  29131  C5* C  A1378     218.215 139.188 -30.746  1.00 55.16      A16S
ATOM  29132  C4* C  A1378     218.100 138.182 -31.854  1.00 55.16      A16S
ATOM  29133  O4* C  A1378     218.814 136.972 -31.508  1.00 55.16      A16S
ATOM  29134  C1* C  A1378     218.138 135.856 -32.056  1.00 55.16      A16S
ATOM  29135  N1  C  A1378     217.954 134.828 -31.011  1.00 52.07      A16S
ATOM  29136  C6  C  A1378     218.156 135.113 -29.689  1.00 52.07      A16S
ATOM  29137  C2  C  A1378     217.601 133.536 -31.403  1.00 52.07      A16S
ATOM  29138  O2  C  A1378     217.362 133.317 -32.595  1.00 52.07      A16S
ATOM  29139  N3  C  A1378     217.520 132.558 -30.475  1.00 52.07      A16S
ATOM  29140  C4  C  A1378     217.756 132.834 -29.193  1.00 52.07      A16S
ATOM  29141  N4  C  A1378     217.695 131.825 -28.316  1.00 52.07      A16S
ATOM  29142  C5  C  A1378     218.071 134.152 -28.754  1.00 52.07      A16S
ATOM  29143  C2* C  A1378     216.864 136.352 -32.741  1.00 55.16      A16S
ATOM  29144  O2* C  A1378     217.080 136.450 -34.134  1.00 55.16      A16S
ATOM  29145  C3* C  A1378     216.681 137.722 -32.106  1.00 55.16      A16S
ATOM  29146  O3* C  A1378     215.994 138.631 -32.940  1.00 55.16      A16S
ATOM  29147  P   G  A1379     214.578 139.204 -32.465  1.00 68.16      A16S
ATOM  29148  O1P G  A1379     214.105 140.130 -33.525  1.00 45.97      A16S
ATOM  29149  O2P G  A1379     214.702 139.677 -31.054  1.00 45.97      A16S
ATOM  29150  O5* G  A1379     213.636 137.928 -32.447  1.00 68.16      A16S
ATOM  29151  C5* G  A1379     213.235 137.332 -31.207  1.00 68.16      A16S
ATOM  29152  C4* G  A1379     213.314 135.837 -31.319  1.00 68.16      A16S
ATOM  29153  O4* G  A1379     214.546 135.360 -30.723  1.00 68.16      A16S
ATOM  29154  C1* G  A1379     214.320 134.106 -30.111  1.00 68.16      A16S
ATOM  29155  N9  G  A1379     214.622 134.230 -28.691  1.00 45.97      A16S
ATOM  29156  C4  G  A1379     214.701 133.202 -27.787  1.00 45.97      A16S
ATOM  29157  N3  G  A1379     214.499 131.901 -28.054  1.00 45.97      A16S
ATOM  29158  C2  G  A1379     214.675 131.150 -26.983  1.00 45.97      A16S
ATOM  29159  N2  G  A1379     214.526 129.831 -27.068  1.00 45.97      A16S
ATOM  29160  N1  G  A1379     215.013 131.636 -25.751  1.00 45.97      A16S
ATOM  29161  C6  G  A1379     215.218 132.972 -25.453  1.00 45.97      A16S
ATOM  29162  O6  G  A1379     215.509 133.303 -24.309  1.00 45.97      A16S
ATOM  29163  C5  G  A1379     215.042 133.791 -26.589  1.00 45.97      A16S
ATOM  29164  N7  G  A1379     215.161 135.165 -26.732  1.00 45.97      A16S
ATOM  29165  C8  G  A1379     214.898 135.381 -27.992  1.00 45.97      A16S
ATOM  29166  C2* G  A1379     212.864 133.719 -30.368  1.00 68.16      A16S
ATOM  29167  O2* G  A1379     212.796 132.894 -31.517  1.00 68.16      A16S
ATOM  29168  C3* G  A1379     212.223 135.081 -30.593  1.00 68.16      A16S
ATOM  29169  O3* G  A1379     211.055 135.010 -31.397  1.00 68.16      A16S
ATOM  29170  P   U  A1380     209.610 135.084 -30.698  1.00 87.61      A16S
ATOM  29171  O1P U  A1380     208.626 135.265 -31.798  1.00 44.05      A16S
ATOM  29172  O2P U  A1380     209.649 136.067 -29.582  1.00 44.05      A16S
ATOM  29173  O5* U  A1380     209.440 133.642 -30.039  1.00 87.61      A16S
ATOM  29174  C5* U  A1380     209.429 132.452 -30.849  1.00 87.61      A16S
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ATOM  29175  C4* U   A1380     209.214 131.241 -29.977  1.00 87.61      A16S
ATOM  29176  O4* U   A1380     210.375 131.061 -29.141  1.00 87.61      A16S
ATOM  29177  C1* U   A1380     209.985 130.660 -27.848  1.00 87.61      A16S
ATOM  29178  N1  U   A1380     210.679 131.525 -26.880  1.00 44.05      A16S
ATOM  29179  C6  U   A1380     210.855 132.862 -27.122  1.00 44.05      A16S
ATOM  29180  C2  U   A1380     211.177 130.943 -25.717  1.00 44.05      A16S
ATOM  29181  O2  U   A1380     211.054 129.768 -25.450  1.00 44.05      A16S
ATOM  29182  N3  U   A1380     211.835 131.793 -24.877  1.00 44.05      A16S
ATOM  29183  C4  U   A1380     212.050 133.130 -25.059  1.00 44.05      A16S
ATOM  29184  O4  U   A1380     212.650 133.766 -24.187  1.00 44.05      A16S
ATOM  29185  C5  U   A1380     211.511 133.663 -26.279  1.00 44.05      A16S
ATOM  29186  C2* U   A1380     208.454 130.555 -27.796  1.00 87.61      A16S
ATOM  29187  O2* U   A1380     208.105 129.189 -27.807  1.00 87.61      A16S
ATOM  29188  C3* U   A1380     208.038 131.367 -29.027  1.00 87.61      A16S
ATOM  29189  O3* U   A1380     206.808 131.110 -29.755  1.00 87.61      A16S
ATOM  29190  P   U   A1381     206.134 129.639 -29.825  1.00 60.14      A16S
ATOM  29191  O1P U   A1381     205.015 129.818 -30.785  1.00 98.90      A16S
ATOM  29192  O2P U   A1381     205.842 129.121 -28.464  1.00 98.90      A16S
ATOM  29193  O5* U   A1381     207.197 128.674 -30.525  1.00 60.14      A16S
ATOM  29194  C5* U   A1381     206.793 127.848 -31.650  1.00 60.14      A16S
ATOM  29195  C4* U   A1381     207.632 126.584 -31.765  1.00 60.14      A16S
ATOM  29196  O4* U   A1381     208.986 126.903 -32.178  1.00 60.14      A16S
ATOM  29197  C1* U   A1381     209.861 125.877 -31.739  1.00 60.14      A16S
ATOM  29198  N1  U   A1381     211.028 126.468 -31.057  1.00 98.90      A16S
ATOM  29199  C6  U   A1381     211.026 127.764 -30.594  1.00 98.90      A16S
ATOM  29200  C2  U   A1381     212.151 125.660 -30.895  1.00 98.90      A16S
ATOM  29201  O2  U   A1381     212.207 124.505 -31.289  1.00 98.90      A16S
ATOM  29202  N3  U   A1381     213.205 126.254 -30.253  1.00 98.90      A16S
ATOM  29203  C4  U   A1381     213.264 127.535 -29.765  1.00 98.90      A16S
ATOM  29204  O4  U   A1381     214.282 127.909 -29.177  1.00 98.90      A16S
ATOM  29205  C5  U   A1381     212.076 128.310 -29.972  1.00 98.90      A16S
ATOM  29206  C2* U   A1381     209.049 124.882 -30.902  1.00 60.14      A16S
ATOM  29207  O2* U   A1381     208.726 123.749 -31.690  1.00 60.14      A16S
ATOM  29208  C3* U   A1381     207.807 125.694 -30.545  1.00 60.14      A16S
ATOM  29209  O3* U   A1381     206.713 124.810 -30.338  1.00 60.14      A16S
ATOM  29210  P   C   A1382     206.509 124.130 -28.892  1.00 52.00      A16S
ATOM  29211  O1P C   A1382     205.370 123.179 -28.987  1.00 63.47      A16S
ATOM  29212  O2P C   A1382     206.473 125.230 -27.887  1.00 63.47      A16S
ATOM  29213  O5* C   A1382     207.842 123.293 -28.630  1.00 52.00      A16S
ATOM  29214  C5* C   A1382     208.113 122.089 -29.359  1.00 52.00      A16S
ATOM  29215  C4* C   A1382     209.357 121.425 -28.830  1.00 52.00      A16S
ATOM  29216  O4* C   A1382     210.508 122.250 -29.119  1.00 52.00      A16S
ATOM  29217  C1* C   A1382     211.443 122.156 -28.062  1.00 52.00      A16S
ATOM  29218  N1  C   A1382     211.709 123.516 -27.542  1.00 63.47      A16S
ATOM  29219  C6  C   A1382     211.024 124.597 -28.023  1.00 63.47      A16S
ATOM  29220  C2  C   A1382     212.685 123.689 -26.542  1.00 63.47      A16S
ATOM  29221  O2  C   A1382     213.297 122.695 -26.107  1.00 63.47      A16S
ATOM  29222  N3  C   A1382     212.935 124.935 -26.075  1.00 63.47      A16S
ATOM  29223  C4  C   A1382     212.261 125.978 -26.556  1.00 63.47      A16S
ATOM  29224  N4  C   A1382     212.545 127.180 -26.065  1.00 63.47      A16S
ATOM  29225  C5  C   A1382     211.267 125.832 -27.563  1.00 63.47      A16S
ATOM  29226  C2* C   A1382     210.880 121.178 -27.030  1.00 52.00      A16S
ATOM  29227  O2* C   A1382     211.427 119.903 -27.259  1.00 52.00      A16S
ATOM  29228  C3* C   A1382     209.390 121.214 -27.332  1.00 52.00      A16S
ATOM  29229  O3* C   A1382     208.751 119.994 -26.976  1.00 52.00      A16S
ATOM  29230  P   C   A1383     208.170 119.803 -25.486  1.00 57.56      A16S
ATOM  29231  O1P C   A1383     207.589 118.446 -25.406  1.00 42.62      A16S
ATOM  29232  O2P C   A1383     207.326 120.985 -25.154  1.00 42.62      A16S
ATOM  29233  O5* C   A1383     209.462 119.833 -24.559  1.00 57.56      A16S
ATOM  29234  C5* C   A1383     210.326 118.703 -24.484  1.00 57.56      A16S
ATOM  29235  C4* C   A1383     211.230 118.826 -23.290  1.00 57.56      A16S
ATOM  29236  O4* C   A1383     212.171 119.899 -23.511  1.00 57.56      A16S
ATOM  29237  C1* C   A1383     212.423 120.568 -22.287  1.00 57.56      A16S
ATOM  29238  N1  C   A1383     212.028 121.982 -22.435  1.00 42.62      A16S
ATOM  29239  C6  C   A1383     211.171 122.373 -23.420  1.00 42.62      A16S
ATOM  29240  C2  C   A1383     212.565 122.925 -21.559  1.00 42.62      A16S
ATOM  29241  O2  C   A1383     213.312 122.540 -20.642  1.00 42.62      A16S
ATOM  29242  N3  C   A1383     212.262 124.229 -21.722  1.00 42.62      A16S
ATOM  29243  C4  C   A1383     211.450 124.604 -22.699  1.00 42.62      A16S
ATOM  29244  N4  C   A1383     211.202 125.907 -22.837  1.00 42.62      A16S
ATOM  29245  C5  C   A1383     210.860 123.662 -23.586  1.00 42.62      A16S
ATOM  29246  C2* C   A1383     211.654 119.842 -21.191  1.00 57.56      A16S
ATOM  29247  O2* C   A1383     212.481 118.874 -20.577  1.00 57.56      A16S
ATOM  29248  C3* C   A1383     210.540 119.203 -21.994  1.00 57.56      A16S
ATOM  29249  O3* C   A1383     209.967 118.103 -21.324  1.00 57.56      A16S
ATOM  29250  P   C   A1384     208.561 118.301 -20.584  1.00 55.43      A16S
ATOM  29251  O1P C   A1384     208.145 116.955 -20.146  1.00 34.19      A16S
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ATOM  29252  O2P C   A1384     207.678 119.090 -21.477  1.00 34.19      A16S
ATOM  29253  O5* C   A1384     208.907 119.192 -19.311  1.00 55.43      A16S
ATOM  29254  C5* C   A1384     209.617 118.624 -18.207  1.00 55.43      A16S
ATOM  29255  C4* C   A1384     209.843 119.658 -17.133  1.00 55.43      A16S
ATOM  29256  O4* C   A1384     210.687 120.723 -17.634  1.00 55.43      A16S
ATOM  29257  C1* C   A1384     210.347 121.937 -16.999  1.00 55.43      A16S
ATOM  29258  N1  C   A1384     209.904 122.889 -18.015  1.00 34.19      A16S
ATOM  29259  C6  C   A1384     209.589 122.479 -19.279  1.00 34.19      A16S
ATOM  29260  C2  C   A1384     209.820 124.244 -17.669  1.00 34.19      A16S
ATOM  29261  O2  C   A1384     210.071 124.578 -16.496  1.00 34.19      A16S
ATOM  29262  N3  C   A1384     209.459 125.148 -18.612  1.00 34.19      A16S
ATOM  29263  C4  C   A1384     209.175 124.734 -19.846  1.00 34.19      A16S
ATOM  29264  N4  C   A1384     208.843 125.646 -20.746  1.00 34.19      A16S
ATOM  29265  C5  C   A1384     209.224 123.358 -20.215  1.00 34.19      A16S
ATOM  29266  C2* C   A1384     209.234 121.647 -16.008  1.00 55.43      A16S
ATOM  29267  O2* C   A1384     209.840 121.442 -14.749  1.00 55.43      A16S
ATOM  29268  C3* C   A1384     208.625 120.386 -16.604  1.00 55.43      A16S
ATOM  29269  O3* C   A1384     207.923 119.625 -15.640  1.00 55.43      A16S
ATOM  29270  P   G   A1385     206.347 119.858 -15.457  1.00 54.57      A16S
ATOM  29271  O1P G   A1385     205.909 118.823 -14.479  1.00 33.64      A16S
ATOM  29272  O2P G   A1385     205.738 119.893 -16.806  1.00 33.64      A16S
ATOM  29273  O5* G   A1385     206.255 121.308 -14.793  1.00 54.57      A16S
ATOM  29274  C5* G   A1385     206.727 121.512 -13.447  1.00 54.57      A16S
ATOM  29275  C4* G   A1385     206.590 122.956 -13.036  1.00 54.57      A16S
ATOM  29276  O4* G   A1385     207.496 123.791 -13.796  1.00 54.57      A16S
ATOM  29277  C1* G   A1385     206.939 125.086 -13.965  1.00 54.57      A16S
ATOM  29278  N9  G   A1385     206.745 125.325 -15.391  1.00 33.64      A16S
ATOM  29279  C4  G   A1385     206.595 126.539 -16.003  1.00 33.64      A16S
ATOM  29280  N3  G   A1385     206.642 127.739 -15.400  1.00 33.64      A16S
ATOM  29281  C2  G   A1385     206.439 128.726 -16.263  1.00 33.64      A16S
ATOM  29282  N2  G   A1385     206.478 129.998 -15.855  1.00 33.64      A16S
ATOM  29283  N1  G   A1385     206.186 128.537 -17.594  1.00 33.64      A16S
ATOM  29284  C6  G   A1385     206.112 127.300 -18.219  1.00 33.64      A16S
ATOM  29285  O6  G   A1385     205.819 127.228 -19.410  1.00 33.64      A16S
ATOM  29286  C5  G   A1385     206.365 126.253 -17.331  1.00 33.64      A16S
ATOM  29287  N7  G   A1385     206.401 124.890 -17.559  1.00 33.64      A16S
ATOM  29288  C8  G   A1385     206.635 124.376 -16.382  1.00 33.64      A16S
ATOM  29289  C2* G   A1385     205.594 125.087 -13.251  1.00 54.57      A16S
ATOM  29290  O2* G   A1385     205.755 125.587 -11.942  1.00 54.57      A16S
ATOM  29291  C3* G   A1385     205.248 123.605 -13.270  1.00 54.57      A16S
ATOM  29292  O3* G   A1385     204.276 123.244 -12.312  1.00 54.57      A16S
ATOM  29293  P   G   A1386     202.748 123.092 -12.782  1.00 46.49      A16S
ATOM  29294  O1P G   A1386     202.067 122.522 -11.594  1.00 34.96      A16S
ATOM  29295  O2P G   A1386     202.702 122.368 -14.079  1.00 34.96      A16S
ATOM  29296  O5* G   A1386     202.292 124.602 -13.029  1.00 46.49      A16S
ATOM  29297  C5* G   A1386     202.530 125.594 -12.014  1.00 46.49      A16S
ATOM  29298  C4* G   A1386     202.397 126.994 -12.564  1.00 46.49      A16S
ATOM  29299  O4* G   A1386     203.327 127.211 -13.654  1.00 46.49      A16S
ATOM  29300  C1* G   A1386     202.926 128.373 -14.356  1.00 46.49      A16S
ATOM  29301  N9  G   A1386     203.009 128.159 -15.794  1.00 34.96      A16S
ATOM  29302  C4  G   A1386     202.870 129.138 -16.740  1.00 34.96      A16S
ATOM  29303  N3  G   A1386     202.694 130.447 -16.491  1.00 34.96      A16S
ATOM  29304  C2  G   A1386     202.544 131.155 -17.601  1.00 34.96      A16S
ATOM  29305  N2  G   A1386     202.367 132.490 -17.522  1.00 34.96      A16S
ATOM  29306  N1  G   A1386     202.558 130.613 -18.862  1.00 34.96      A16S
ATOM  29307  C6  G   A1386     202.742 129.261 -19.145  1.00 34.96      A16S
ATOM  29308  O6  G   A1386     202.733 128.871 -20.320  1.00 34.96      A16S
ATOM  29309  C5  G   A1386     202.915 128.492 -17.951  1.00 34.96      A16S
ATOM  29310  N7  G   A1386     203.123 127.131 -17.774  1.00 34.96      A16S
ATOM  29311  C8  G   A1386     203.184 126.982 -16.476  1.00 34.96      A16S
ATOM  29312  C2* G   A1386     201.491 128.693 -13.934  1.00 46.49      A16S
ATOM  29313  O2* G   A1386     201.485 129.831 -13.086  1.00 46.49      A16S
ATOM  29314  C3* G   A1386     201.083 127.424 -13.193  1.00 46.49      A16S
ATOM  29315  O3* G   A1386     200.061 127.734 -12.256  1.00 46.49      A16S
ATOM  29316  P   G   A1387     198.523 127.763 -12.740  1.00 42.85      A16S
ATOM  29317  O1P G   A1387     197.726 127.627 -11.483  1.00 34.82      A16S
ATOM  29318  O2P G   A1387     198.316 126.788 -13.842  1.00 34.82      A16S
ATOM  29319  O5* G   A1387     198.335 129.198 -13.409  1.00 42.85      A16S
ATOM  29320  C5* G   A1387     198.407 130.381 -12.623  1.00 42.85      A16S
ATOM  29321  C4* G   A1387     198.242 131.601 -13.489  1.00 42.85      A16S
ATOM  29322  O4* G   A1387     199.341 131.693 -14.422  1.00 42.85      A16S
ATOM  29323  C1* G   A1387     198.909 132.331 -15.611  1.00 42.85      A16S
ATOM  29324  N9  G   A1387     199.117 131.416 -16.727  1.00 34.82      A16S
ATOM  29325  C4  G   A1387     198.960 131.702 -18.059  1.00 34.82      A16S
ATOM  29326  N3  G   A1387     198.562 132.876 -18.574  1.00 34.82      A16S
ATOM  29327  C2  G   A1387     198.516 132.841 -19.896  1.00 34.82      A16S
ATOM  29328  N2  G   A1387     198.159 133.917 -20.575  1.00 34.82      A16S
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ATOM  29329  N1  G  A1387     198.828 131.752 -20.645  1.00 34.82      A16S
ATOM  29330  C6  G  A1387     199.258 130.540 -20.139  1.00 34.82      A16S
ATOM  29331  O6  G  A1387     199.556 129.629 -20.911  1.00 34.82      A16S
ATOM  29332  C5  G  A1387     199.304 130.551 -18.724  1.00 34.82      A16S
ATOM  29333  N7  G  A1387     199.654 129.551 -17.830  1.00 34.82      A16S
ATOM  29334  C8  G  A1387     199.524 130.107 -16.657  1.00 34.82      A16S
ATOM  29335  C2* G  A1387     197.442 132.693 -15.426  1.00 42.85      A16S
ATOM  29336  O2* G  A1387     197.366 134.036 -14.970  1.00 42.85      A16S
ATOM  29337  C3* G  A1387     197.016 131.673 -14.376  1.00 42.85      A16S
ATOM  29338  O3* G  A1387     195.856 132.071 -13.668  1.00 42.85      A16S
ATOM  29339  P   C  A1388     194.443 131.402 -14.030  1.00 43.99      A16S
ATOM  29340  O1P C  A1388     193.534 131.780 -12.937  1.00 44.31      A16S
ATOM  29341  O2P C  A1388     194.666 129.966 -14.336  1.00 44.31      A16S
ATOM  29342  O5* C  A1388     193.994 132.143 -15.359  1.00 43.99      A16S
ATOM  29343  C5* C  A1388     193.707 133.542 -15.341  1.00 43.99      A16S
ATOM  29344  C4* C  A1388     193.366 134.019 -16.730  1.00 43.99      A16S
ATOM  29345  O4* C  A1388     194.554 133.994 -17.563  1.00 43.99      A16S
ATOM  29346  C1* C  A1388     194.202 133.631 -18.888  1.00 43.99      A16S
ATOM  29347  N1  C  A1388     194.896 132.372 -19.243  1.00 44.31      A16S
ATOM  29348  C6  C  A1388     195.369 131.520 -18.277  1.00 44.31      A16S
ATOM  29349  C2  C  A1388     195.048 132.046 -20.608  1.00 44.31      A16S
ATOM  29350  O2  C  A1388     194.642 132.844 -21.457  1.00 44.31      A16S
ATOM  29351  N3  C  A1388     195.633 130.875 -20.955  1.00 44.31      A16S
ATOM  29352  C4  C  A1388     196.062 130.040 -20.006  1.00 44.31      A16S
ATOM  29353  N4  C  A1388     196.591 128.879 -20.390  1.00 44.31      A16S
ATOM  29354  C5  C  A1388     195.953 130.356 -18.609  1.00 44.31      A16S
ATOM  29355  C2* C  A1388     192.680 133.481 -18.932  1.00 43.99      A16S
ATOM  29356  O2* C  A1388     192.096 134.697 -19.353  1.00 43.99      A16S
ATOM  29357  C3* C  A1388     192.362 133.161 -17.480  1.00 43.99      A16S
ATOM  29358  O3* C  A1388     191.017 133.446 -17.121  1.00 43.99      A16S
ATOM  29359  P   C  A1389     189.924 132.261 -17.124  1.00 41.29      A16S
ATOM  29360  O1P C  A1389     188.761 132.762 -16.361  1.00 55.16      A16S
ATOM  29361  O2P C  A1389     190.559 130.975 -16.720  1.00 55.16      A16S
ATOM  29362  O5* C  A1389     189.498 132.187 -18.653  1.00 41.29      A16S
ATOM  29363  C5* C  A1389     188.907 133.323 -19.263  1.00 41.29      A16S
ATOM  29364  C4* C  A1389     188.921 133.188 -20.757  1.00 41.29      A16S
ATOM  29365  O4* C  A1389     190.285 133.180 -21.230  1.00 41.29      A16S
ATOM  29366  C1* C  A1389     190.376 132.398 -22.409  1.00 41.29      A16S
ATOM  29367  N1  C  A1389     191.268 131.252 -22.157  1.00 55.16      A16S
ATOM  29368  C6  C  A1389     191.595 130.877 -20.883  1.00 55.16      A16S
ATOM  29369  C2  C  A1389     191.744 130.522 -23.251  1.00 55.16      A16S
ATOM  29370  O2  C  A1389     191.491 130.927 -24.402  1.00 55.16      A16S
ATOM  29371  N3  C  A1389     192.472 129.404 -23.028  1.00 55.16      A16S
ATOM  29372  C4  C  A1389     192.745 129.026 -21.776  1.00 55.16      A16S
ATOM  29373  N4  C  A1389     193.424 127.893 -21.596  1.00 55.16      A16S
ATOM  29374  C5  C  A1389     192.323 129.784 -20.651  1.00 55.16      A16S
ATOM  29375  C2* C  A1389     188.968 131.899 -22.725  1.00 41.29      A16S
ATOM  29376  O2* C  A1389     188.343 132.791 -23.624  1.00 41.29      A16S
ATOM  29377  C3* C  A1389     188.326 131.928 -21.349  1.00 41.29      A16S
ATOM  29378  O3* C  A1389     186.916 131.968 -21.432  1.00 41.29      A16S
ATOM  29379  P   U  A1390     186.080 130.626 -21.175  1.00 51.16      A16S
ATOM  29380  O1P U  A1390     184.655 131.014 -21.177  1.00 59.56      A16S
ATOM  29381  O2P U  A1390     186.639 129.878 -20.013  1.00 59.56      A16S
ATOM  29382  O5* U  A1390     186.350 129.770 -22.484  1.00 51.16      A16S
ATOM  29383  C5* U  A1390     186.106 130.323 -23.786  1.00 51.16      A16S
ATOM  29384  C4* U  A1390     186.704 129.430 -24.841  1.00 51.16      A16S
ATOM  29385  O4* U  A1390     188.145 129.376 -24.660  1.00 51.16      A16S
ATOM  29386  C1* U  A1390     188.616 128.090 -25.011  1.00 51.16      A16S
ATOM  29387  N1  U  A1390     189.344 127.498 -23.880  1.00 59.56      A16S
ATOM  29388  C6  U  A1390     189.111 127.856 -22.581  1.00 59.56      A16S
ATOM  29389  C2  U  A1390     190.265 126.529 -24.186  1.00 59.56      A16S
ATOM  29390  O2  U  A1390     190.544 126.236 -25.328  1.00 59.56      A16S
ATOM  29391  N3  U  A1390     190.856 125.921 -23.112  1.00 59.56      A16S
ATOM  29392  C4  U  A1390     190.641 126.191 -21.790  1.00 59.56      A16S
ATOM  29393  O4  U  A1390     191.138 125.454 -20.938  1.00 59.56      A16S
ATOM  29394  C5  U  A1390     189.715 127.255 -21.549  1.00 59.56      A16S
ATOM  29395  C2* U  A1390     187.417 127.241 -25.436  1.00 51.16      A16S
ATOM  29396  O2* U  A1390     187.350 127.242 -26.846  1.00 51.16      A16S
ATOM  29397  C3* U  A1390     186.256 127.979 -24.783  1.00 51.16      A16S
ATOM  29398  O3* U  A1390     185.041 127.798 -25.495  1.00 51.16      A16S
ATOM  29399  P   U  A1391     183.981 126.690 -25.003  1.00 50.58      A16S
ATOM  29400  O1P U  A1391     182.705 126.974 -25.713  1.00 44.07      A16S
ATOM  29401  O2P U  A1391     183.985 126.621 -23.512  1.00 44.07      A16S
ATOM  29402  O5* U  A1391     184.567 125.321 -25.576  1.00 50.58      A16S
ATOM  29403  C5* U  A1391     184.606 125.086 -26.994  1.00 50.58      A16S
ATOM  29404  C4* U  A1391     185.403 123.844 -27.319  1.00 50.58      A16S
ATOM  29405  O4* U  A1391     186.799 124.035 -26.980  1.00 50.58      A16S
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ATOM  29406  C1* U   A1391     187.368 122.795 -26.609  1.00 50.58      A16S
ATOM  29407  N1  U   A1391     187.895 122.900 -25.241  1.00 44.07      A16S
ATOM  29408  C6  U   A1391     187.529 123.918 -24.402  1.00 44.07      A16S
ATOM  29409  C2  U   A1391     188.774 121.923 -24.823  1.00 44.07      A16S
ATOM  29410  O2  U   A1391     189.138 121.015 -25.547  1.00 44.07      A16S
ATOM  29411  N3  U   A1391     189.216 122.048 -23.532  1.00 44.07      A16S
ATOM  29412  C4  U   A1391     188.890 123.040 -22.640  1.00 44.07      A16S
ATOM  29413  O4  U   A1391     189.399 123.044 -21.521  1.00 44.07      A16S
ATOM  29414  C5  U   A1391     187.985 124.022 -23.152  1.00 44.07      A16S
ATOM  29415  C2* U   A1391     186.284 121.726 -26.738  1.00 50.58      A16S
ATOM  29416  O2* U   A1391     186.428 121.093 -27.996  1.00 50.58      A16S
ATOM  29417  C3* U   A1391     185.009 122.556 -26.622  1.00 50.58      A16S
ATOM  29418  O3* U   A1391     183.904 121.927 -27.262  1.00 50.58      A16S
ATOM  29419  P   G   A1392     183.018 120.861 -26.445  1.00 44.02      A16S
ATOM  29420  O1P G   A1392     181.826 120.531 -27.276  1.00 37.84      A16S
ATOM  29421  O2P G   A1392     182.846 121.307 -25.037  1.00 37.84      A16S
ATOM  29422  O5* G   A1392     183.937 119.577 -26.367  1.00 44.02      A16S
ATOM  29423  C5* G   A1392     184.225 118.820 -27.537  1.00 44.02      A16S
ATOM  29424  C4* G   A1392     185.087 117.659 -27.170  1.00 44.02      A16S
ATOM  29425  O4* G   A1392     186.380 118.152 -26.768  1.00 44.02      A16S
ATOM  29426  C1* G   A1392     186.868 117.382 -25.693  1.00 44.02      A16S
ATOM  29427  N9  G   A1392     187.064 118.281 -24.567  1.00 37.84      A16S
ATOM  29428  C4  G   A1392     187.969 118.126 -23.564  1.00 37.84      A16S
ATOM  29429  N3  G   A1392     188.798 117.081 -23.409  1.00 37.84      A16S
ATOM  29430  C2  G   A1392     189.566 117.220 -22.347  1.00 37.84      A16S
ATOM  29431  N2  G   A1392     190.419 116.257 -22.016  1.00 37.84      A16S
ATOM  29432  N1  G   A1392     189.546 118.317 -21.523  1.00 37.84      A16S
ATOM  29433  C6  G   A1392     188.709 119.414 -21.681  1.00 37.84      A16S
ATOM  29434  O6  G   A1392     188.791 120.371 -20.907  1.00 37.84      A16S
ATOM  29435  C5  G   A1392     187.853 119.255 -22.789  1.00 37.84      A16S
ATOM  29436  N7  G   A1392     186.857 120.082 -23.273  1.00 37.84      A16S
ATOM  29437  C8  G   A1392     186.412 119.460 -24.326  1.00 37.84      A16S
ATOM  29438  C2* G   A1392     185.856 116.278 -25.417  1.00 44.02      A16S
ATOM  29439  O2* G   A1392     186.191 115.131 -26.166  1.00 44.02      A16S
ATOM  29440  C3* G   A1392     184.594 116.903 -25.958  1.00 44.02      A16S
ATOM  29441  O3* G   A1392     183.648 115.933 -26.297  1.00 44.02      A16S
ATOM  29442  P   U   A1393     182.639 115.419 -25.176  1.00 36.82      A16S
ATOM  29443  O1P U   A1393     181.761 114.423 -25.869  1.00 58.15      A16S
ATOM  29444  O2P U   A1393     182.035 116.610 -24.503  1.00 58.15      A16S
ATOM  29445  O5* U   A1393     183.579 114.697 -24.115  1.00 36.82      A16S
ATOM  29446  C5* U   A1393     184.301 113.541 -24.477  1.00 36.82      A16S
ATOM  29447  C4* U   A1393     185.015 112.988 -23.288  1.00 36.82      A16S
ATOM  29448  O4* U   A1393     186.136 113.829 -22.942  1.00 36.82      A16S
ATOM  29449  C1* U   A1393     186.333 113.804 -21.542  1.00 36.82      A16S
ATOM  29450  N1  U   A1393     186.269 115.184 -21.040  1.00 58.15      A16S
ATOM  29451  C6  U   A1393     185.619 116.166 -21.742  1.00 58.15      A16S
ATOM  29452  C2  U   A1393     186.893 115.470 -19.838  1.00 58.15      A16S
ATOM  29453  O2  U   A1393     187.484 114.632 -19.173  1.00 58.15      A16S
ATOM  29454  N3  U   A1393     186.802 116.777 -19.439  1.00 58.15      A16S
ATOM  29455  C4  U   A1393     186.169 117.801 -20.096  1.00 58.15      A16S
ATOM  29456  O4  U   A1393     186.139 118.918 -19.584  1.00 58.15      A16S
ATOM  29457  C5  U   A1393     185.553 117.429 -21.324  1.00 58.15      A16S
ATOM  29458  C2* U   A1393     185.269 112.886 -20.944  1.00 36.82      A16S
ATOM  29459  O2* U   A1393     185.792 111.582 -20.782  1.00 36.82      A16S
ATOM  29460  C3* U   A1393     184.196 112.923 -22.022  1.00 36.82      A16S
ATOM  29461  O3* U   A1393     183.340 111.798 -21.989  1.00 36.82      A16S
ATOM  29462  P   A   A1394     182.290 111.646 -20.784  1.00 33.58      A16S
ATOM  29463  O1P A   A1394     181.070 110.998 -21.293  1.00 39.80      A16S
ATOM  29464  O2P A   A1394     182.171 112.956 -20.088  1.00 39.80      A16S
ATOM  29465  O5* A   A1394     183.033 110.632 -19.826  1.00 33.58      A16S
ATOM  29466  C5* A   A1394     182.335 109.994 -18.789  1.00 33.58      A16S
ATOM  29467  C4* A   A1394     182.967 108.676 -18.522  1.00 33.58      A16S
ATOM  29468  O4* A   A1394     182.773 107.831 -19.680  1.00 33.58      A16S
ATOM  29469  C1* A   A1394     184.021 107.407 -20.174  1.00 33.58      A16S
ATOM  29470  N9  A   A1394     183.923 107.382 -21.620  1.00 39.80      A16S
ATOM  29471  C4  A   A1394     184.304 106.349 -22.427  1.00 39.80      A16S
ATOM  29472  N3  A   A1394     184.878 105.199 -22.053  1.00 39.80      A16S
ATOM  29473  C2  A   A1394     185.084 104.423 -23.106  1.00 39.80      A16S
ATOM  29474  N1  A   A1394     184.798 104.648 -24.389  1.00 39.80      A16S
ATOM  29475  C6  A   A1394     184.226 105.816 -24.726  1.00 39.80      A16S
ATOM  29476  N6  A   A1394     183.948 106.045 -26.006  1.00 39.80      A16S
ATOM  29477  C5  A   A1394     183.962 106.726 -23.704  1.00 39.80      A16S
ATOM  29478  N7  A   A1394     183.406 107.994 -23.707  1.00 39.80      A16S
ATOM  29479  C8  A   A1394     183.410 108.338 -22.447  1.00 39.80      A16S
ATOM  29480  C2* A   A1394     185.054 108.397 -19.648  1.00 33.58      A16S
ATOM  29481  O2* A   A1394     186.346 107.816 -19.625  1.00 33.58      A16S
ATOM  29482  C3* A   A1394     184.465 108.750 -18.285  1.00 33.58      A16S
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ATOM  29483  O3* A   A1394      184.758 107.763 -17.326  1.00 33.58       A16S
ATOM  29484  P    C   A1395      184.804 108.173 -15.786  1.00 34.29       A16S
ATOM  29485  O1P C   A1395      184.912 106.915 -14.972  1.00 41.48       A16S
ATOM  29486  O2P C   A1395      183.682 109.113 -15.553  1.00 41.48       A16S
ATOM  29487  O5* C   A1395      186.143 109.027 -15.691  1.00 34.29       A16S
ATOM  29488  C5* C   A1395      187.430 108.388 -15.728  1.00 34.29       A16S
ATOM  29489  C4* C   A1395      188.460 109.308 -15.146  1.00 34.29       A16S
ATOM  29490  O4* C   A1395      188.616 110.449 -16.013  1.00 34.29       A16S
ATOM  29491  C1* C   A1395      188.748 111.618 -15.251  1.00 34.29       A16S
ATOM  29492  N1   C   A1395      187.695 112.527 -15.693  1.00 41.48       A16S
ATOM  29493  C6   C   A1395      186.606 112.039 -16.348  1.00 41.48       A16S
ATOM  29494  C2   C   A1395      187.830 113.894 -15.483  1.00 41.48       A16S
ATOM  29495  O2   C   A1395      188.772 114.309 -14.806  1.00 41.48       A16S
ATOM  29496  N3   C   A1395      186.922 114.732 -16.009  1.00 41.48       A16S
ATOM  29497  C4   C   A1395      185.892 114.246 -16.691  1.00 41.48       A16S
ATOM  29498  N4   C   A1395      185.044 115.105 -17.235  1.00 41.48       A16S
ATOM  29499  C5   C   A1395      185.690 112.857 -16.858  1.00 41.48       A16S
ATOM  29500  C2* C   A1395      188.759 111.225 -13.773  1.00 34.29       A16S
ATOM  29501  O2* C   A1395      190.110 111.115 -13.372  1.00 34.29       A16S
ATOM  29502  C3* C   A1395      188.055 109.872 -13.802  1.00 34.29       A16S
ATOM  29503  O3* C   A1395      188.490 108.966 -12.791  1.00 34.29       A16S
ATOM  29504  P    A   A1396      187.611 108.763 -11.469  1.00 40.98       A16S
ATOM  29505  O1P A   A1396      188.394 107.888 -10.551  1.00 35.12       A16S
ATOM  29506  O2P A   A1396      186.222 108.364 -11.855  1.00 35.12       A16S
ATOM  29507  O5* A   A1396      187.556 110.232 -10.844  1.00 40.98       A16S
ATOM  29508  C5* A   A1396      188.722 110.803 -10.233  1.00 40.98       A16S
ATOM  29509  C4* A   A1396      188.366 112.033  -9.440  1.00 40.98       A16S
ATOM  29510  O4* A   A1396      187.933 113.084 -10.340  1.00 40.98       A16S
ATOM  29511  C1* A   A1396      186.715 113.624  -9.882  1.00 40.98       A16S
ATOM  29512  N9   A   A1396      185.958 114.107 -11.039  1.00 35.12       A16S
ATOM  29513  C4   A   A1396      185.420 115.361 -11.199  1.00 35.12       A16S
ATOM  29514  N3   A   A1396      185.413 116.364 -10.309  1.00 35.12       A16S
ATOM  29515  C2   A   A1396      184.852 117.453 -10.838  1.00 35.12       A16S
ATOM  29516  N1   A   A1396      184.339 117.635 -12.063  1.00 35.12       A16S
ATOM  29517  C6   A   A1396      184.359 116.598 -12.928  1.00 35.12       A16S
ATOM  29518  N6   A   A1396      183.855 116.770 -14.152  1.00 35.12       A16S
ATOM  29519  C5   A   A1396      184.917 115.394 -12.487  1.00 35.12       A16S
ATOM  29520  N7   A   A1396      185.084 114.173 -13.109  1.00 35.12       A16S
ATOM  29521  C8   A   A1396      185.692 113.441 -12.206  1.00 35.12       A16S
ATOM  29522  C2* A   A1396      186.072 112.524  -9.047  1.00 40.98       A16S
ATOM  29523  O2* A   A1396      185.158 113.130  -8.170  1.00 40.98       A16S
ATOM  29524  C3* A   A1396      187.295 111.898  -8.364  1.00 40.98       A16S
ATOM  29525  O3* A   A1396      187.726 112.698  -7.245  1.00 40.98       A16S
ATOM  29526  P    C   A1397      187.734 112.088  -5.749  1.00 64.14       A16S
ATOM  29527  O1P C   A1397      188.404 113.089  -4.899  1.00109.86       A16S
ATOM  29528  O2P C   A1397      186.389 111.613  -5.388  1.00109.86       A16S
ATOM  29529  O5* C   A1397      188.653 110.803  -5.823  1.00 78.59       A16S
ATOM  29530  C5* C   A1397      189.920 110.844  -6.485  1.00 78.59       A16S
ATOM  29531  C4* C   A1397      191.042 110.739  -5.482  1.00 78.59       A16S
ATOM  29532  O4* C   A1397      190.672 109.843  -4.410  1.00 78.59       A16S
ATOM  29533  C1* C   A1397      191.800 109.099  -3.991  1.00 78.59       A16S
ATOM  29534  N1   C   A1397      191.487 107.664  -4.128  1.00200.96       A16S
ATOM  29535  C6   C   A1397      191.211 107.115  -5.352  1.00200.96       A16S
ATOM  29536  C2   C   A1397      191.468 106.865  -2.975  1.00200.96       A16S
ATOM  29537  O2   C   A1397      191.733 107.382  -1.873  1.00200.96       A16S
ATOM  29538  N3   C   A1397      191.164 105.551  -3.089  1.00200.96       A16S
ATOM  29539  C4   C   A1397      190.891 105.029  -4.288  1.00200.96       A16S
ATOM  29540  N4   C   A1397      190.590 103.728  -4.351  1.00200.96       A16S
ATOM  29541  C5   C   A1397      190.912 105.817  -5.476  1.00200.96       A16S
ATOM  29542  C2* C   A1397      192.996 109.572  -4.813  1.00 78.59       A16S
ATOM  29543  O2* C   A1397      193.695 110.561  -4.081  1.00 78.59       A16S
ATOM  29544  C3* C   A1397      192.316 110.152  -6.041  1.00 78.59       A16S
ATOM  29545  O3* C   A1397      193.105 111.144  -6.636  1.00 78.59       A16S
ATOM  29546  P    A   A1398      194.123 110.735  -7.799  1.00 44.84       A16S
ATOM  29547  O1P A   A1398      194.380 109.257  -7.715  1.00 52.36       A16S
ATOM  29548  O2P A   A1398      195.267 111.703  -7.717  1.00 52.36       A16S
ATOM  29549  O5* A   A1398      193.299 110.989  -9.139  1.00 44.84       A16S
ATOM  29550  C5* A   A1398      193.798 111.879 -10.118  1.00 44.84       A16S
ATOM  29551  C4* A   A1398      192.687 112.411 -10.955  1.00 44.84       A16S
ATOM  29552  O4* A   A1398      191.582 112.841 -10.135  1.00 44.84       A16S
ATOM  29553  C1* A   A1398      191.059 114.064 -10.641  1.00 44.84       A16S
ATOM  29554  N9   A   A1398      191.248 115.101  -9.622  1.00 52.36       A16S
ATOM  29555  C4   A   A1398      190.659 116.342  -9.599  1.00 52.36       A16S
ATOM  29556  N3   A   A1398      189.783 116.846 -10.480  1.00 52.36       A16S
ATOM  29557  C2   A   A1398      189.431 118.081 -10.136  1.00 52.36       A16S
ATOM  29558  N1   A   A1398      189.830 118.815  -9.099  1.00 52.36       A16S
ATOM  29559  C6   A   A1398      190.714 118.283  -8.237  1.00 52.36       A16S
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ATOM  29560  N6  A   A1398     191.124 119.024  -7.212  1.00 52.36      A16S
ATOM  29561  C5  A   A1398     191.156 116.977  -8.479  1.00 52.36      A16S
ATOM  29562  N7  A   A1398     192.032 116.151  -7.795  1.00 52.36      A16S
ATOM  29563  C8  A   A1398     192.052 115.053  -8.512  1.00 52.36      A16S
ATOM  29564  C2* A   A1398     191.843 114.410 -11.907  1.00 44.84      A16S
ATOM  29565  O2* A   A1398     191.219 113.991 -13.108  1.00 44.84      A16S
ATOM  29566  C3* A   A1398     193.130 113.668 -11.647  1.00 44.84      A16S
ATOM  29567  O3* A   A1398     193.862 113.385 -12.785  1.00 44.84      A16S
ATOM  29568  P   C   A1399     195.312 114.008 -12.922  1.00 33.42      A16S
ATOM  29569  O1P C   A1399     195.944 113.913 -11.577  1.00 52.12      A16S
ATOM  29570  O2P C   A1399     195.161 115.331 -13.589  1.00 52.12      A16S
ATOM  29571  O5* C   A1399     196.051 113.000 -13.901  1.00 33.42      A16S
ATOM  29572  C5* C   A1399     196.716 111.820 -13.410  1.00 33.42      A16S
ATOM  29573  C4* C   A1399     197.418 111.139 -14.551  1.00 33.42      A16S
ATOM  29574  O4* C   A1399     196.408 110.588 -15.420  1.00 33.42      A16S
ATOM  29575  C1* C   A1399     196.514 111.158 -16.701  1.00 33.42      A16S
ATOM  29576  N1  C   A1399     195.145 111.276 -17.249  1.00 52.12      A16S
ATOM  29577  C6  C   A1399     194.246 112.154 -16.716  1.00 52.12      A16S
ATOM  29578  C2  C   A1399     194.778 110.468 -18.329  1.00 52.12      A16S
ATOM  29579  O2  C   A1399     195.598 109.677 -18.799  1.00 52.12      A16S
ATOM  29580  N3  C   A1399     193.536 110.570 -18.834  1.00 52.12      A16S
ATOM  29581  C4  C   A1399     192.674 111.434 -18.313  1.00 52.12      A16S
ATOM  29582  N4  C   A1399     191.462 111.504 -18.858  1.00 52.12      A16S
ATOM  29583  C5  C   A1399     193.013 112.263 -17.215  1.00 52.12      A16S
ATOM  29584  C2* C   A1399     197.293 112.464 -16.522  1.00 33.42      A16S
ATOM  29585  O2* C   A1399     197.989 112.867 -17.675  1.00 33.42      A16S
ATOM  29586  C3* C   A1399     198.251 112.096 -15.399  1.00 33.42      A16S
ATOM  29587  O3* C   A1399     199.411 111.448 -15.938  1.00 33.42      A16S
ATOM  29588  P   C   A1400     200.762 111.352 -15.066  1.00 42.56      A16S
ATOM  29589  O1P C   A1400     200.951 112.642 -14.359  1.00 66.98      A16S
ATOM  29590  O2P C   A1400     201.824 110.852 -15.962  1.00 66.98      A16S
ATOM  29591  O5* C   A1400     200.444 110.208 -14.015  1.00 42.56      A16S
ATOM  29592  C5* C   A1400     200.109 108.906 -14.479  1.00 42.56      A16S
ATOM  29593  C4* C   A1400     200.200 107.923 -13.355  1.00 42.56      A16S
ATOM  29594  O4* C   A1400     201.516 108.061 -12.761  1.00 42.56      A16S
ATOM  29595  C1* C   A1400     201.404 108.401 -11.396  1.00 42.56      A16S
ATOM  29596  N1  C   A1400     202.420 109.424 -11.108  1.00 66.98      A16S
ATOM  29597  C6  C   A1400     202.676 110.425 -12.004  1.00 66.98      A16S
ATOM  29598  C2  C   A1400     203.124 109.359  -9.902  1.00 66.98      A16S
ATOM  29599  O2  C   A1400     202.894 108.425  -9.115  1.00 66.98      A16S
ATOM  29600  N3  C   A1400     204.045 110.310  -9.628  1.00 66.98      A16S
ATOM  29601  C4  C   A1400     204.288 111.278 -10.513  1.00 66.98      A16S
ATOM  29602  N4  C   A1400     205.214 112.186 -10.208  1.00 66.98      A16S
ATOM  29603  C5  C   A1400     203.595 111.357 -11.752  1.00 66.98      A16S
ATOM  29604  C2* C   A1400     199.976 108.908 -11.183  1.00 42.56      A16S
ATOM  29605  O2* C   A1400     199.547 108.633  -9.860  1.00 42.56      A16S
ATOM  29606  C3* C   A1400     199.188 108.122 -12.235  1.00 42.56      A16S
ATOM  29607  O3* C   A1400     198.818 106.847 -11.717  1.00 42.56      A16S
ATOM  29608  P   G   A1401     197.640 106.021 -12.414  1.00 42.16      A16S
ATOM  29609  O1P G   A1401     197.159 105.009 -11.420  1.00 55.77      A16S
ATOM  29610  O2P G   A1401     198.117 105.573 -13.748  1.00 55.77      A16S
ATOM  29611  O5* G   A1401     196.496 107.106 -12.656  1.00 42.16      A16S
ATOM  29612  C5* G   A1401     195.821 107.718 -11.548  1.00 42.16      A16S
ATOM  29613  C4* G   A1401     194.453 108.201 -11.959  1.00 42.16      A16S
ATOM  29614  O4* G   A1401     194.598 109.086 -13.095  1.00 42.16      A16S
ATOM  29615  C1* G   A1401     193.482 108.949 -13.956  1.00 42.16      A16S
ATOM  29616  N9  G   A1401     193.950 108.406 -15.227  1.00 55.77      A16S
ATOM  29617  C4  G   A1401     193.220 108.285 -16.380  1.00 55.77      A16S
ATOM  29618  N3  G   A1401     191.957 108.704 -16.563  1.00 55.77      A16S
ATOM  29619  C2  G   A1401     191.508 108.397 -17.757  1.00 55.77      A16S
ATOM  29620  N2  G   A1401     190.273 108.738 -18.105  1.00 55.77      A16S
ATOM  29621  N1  G   A1401     192.238 107.735 -18.698  1.00 55.77      A16S
ATOM  29622  C6  G   A1401     193.543 107.305 -18.534  1.00 55.77      A16S
ATOM  29623  O6  G   A1401     194.116 106.724 -19.452  1.00 55.77      A16S
ATOM  29624  C5  G   A1401     194.036 107.624 -17.260  1.00 55.77      A16S
ATOM  29625  N7  G   A1401     195.273 107.376 -16.692  1.00 55.77      A16S
ATOM  29626  C8  G   A1401     195.180 107.865 -15.490  1.00 55.77      A16S
ATOM  29627  C2* G   A1401     192.524 107.959 -13.294  1.00 42.16      A16S
ATOM  29628  O2* G   A1401     191.574 108.659 -12.524  1.00 42.16      A16S
ATOM  29629  C3* G   A1401     193.467 107.149 -12.427  1.00 42.16      A16S
ATOM  29630  O3* G   A1401     192.760 106.569 -11.356  1.00 42.16      A16S
ATOM  29631  P   C   A1402     192.462 104.992 -11.366  1.00 46.47      A16S
ATOM  29632  O1P C   A1402     191.627 104.708 -10.165  1.00 49.55      A16S
ATOM  29633  O2P C   A1402     193.743 104.270 -11.536  1.00 49.55      A16S
ATOM  29634  O5* C   A1402     191.564 104.783 -12.669  1.00 46.47      A16S
ATOM  29635  C5* C   A1402     190.255 105.381 -12.743  1.00 46.47      A16S
ATOM  29636  C4* C   A1402     189.717 105.376 -14.157  1.00 46.47      A16S
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ATOM  29637  O4*  C    A1402     190.682 105.982 -15.055  1.00 46.47      A16S
ATOM  29638  C1*  C    A1402     190.520 105.440 -16.355  1.00 46.47      A16S
ATOM  29639  N1   C    A1402     191.783 104.817 -16.794  1.00 49.55      A16S
ATOM  29640  C6   C    A1402     192.840 104.654 -15.946  1.00 49.55      A16S
ATOM  29641  C2   C    A1402     191.861 104.361 -18.097  1.00 49.55      A16S
ATOM  29642  O2   C    A1402     190.910 104.571 -18.850  1.00 49.55      A16S
ATOM  29643  N3   C    A1402     192.965 103.710 -18.511  1.00 49.55      A16S
ATOM  29644  C4   C    A1402     193.983 103.532 -17.677  1.00 49.55      A16S
ATOM  29645  N4   C    A1402     195.051 102.882 -18.132  1.00 49.55      A16S
ATOM  29646  C5   C    A1402     193.949 104.016 -16.343  1.00 49.55      A16S
ATOM  29647  C2*  C    A1402     189.395 104.400 -16.287  1.00 46.47      A16S
ATOM  29648  O2*  C    A1402     188.184 104.972 -16.751  1.00 46.47      A16S
ATOM  29649  C3*  C    A1402     189.383 104.043 -14.804  1.00 46.47      A16S
ATOM  29650  O3*  C    A1402     188.101 103.579 -14.418  1.00 46.47      A16S
ATOM  29651  P    C    A1403     187.839 102.001 -14.226  1.00 44.73      A16S
ATOM  29652  O1P  C    A1403     186.397 101.861 -13.923  1.00 59.65      A16S
ATOM  29653  O2P  C    A1403     188.836 101.431 -13.279  1.00 59.65      A16S
ATOM  29654  O5*  C    A1403     188.094 101.383 -15.672  1.00 44.73      A16S
ATOM  29655  C5*  C    A1403     187.270 101.750 -16.788  1.00 44.73      A16S
ATOM  29656  C4*  C    A1403     187.868 101.233 -18.079  1.00 44.73      A16S
ATOM  29657  O4*  C    A1403     189.130 101.900 -18.338  1.00 44.73      A16S
ATOM  29658  C1*  C    A1403     190.053 100.981 -18.887  1.00 44.73      A16S
ATOM  29659  N1   C    A1403     191.177 100.840 -17.927  1.00 59.65      A16S
ATOM  29660  C6   C    A1403     191.084 101.349 -16.663  1.00 59.65      A16S
ATOM  29661  C2   C    A1403     192.330 100.160 -18.319  1.00 59.65      A16S
ATOM  29662  O2   C    A1403     192.420  99.759 -19.472  1.00 59.65      A16S
ATOM  29663  N3   C    A1403     193.320  99.963 -17.429  1.00 59.65      A16S
ATOM  29664  C4   C    A1403     193.203 100.432 -16.191  1.00 59.65      A16S
ATOM  29665  N4   C    A1403     194.192 100.178 -15.331  1.00 59.65      A16S
ATOM  29666  C5   C    A1403     192.063 101.171 -15.774  1.00 59.65      A16S
ATOM  29667  C2*  C    A1403     189.290  99.673 -19.160  1.00 44.73      A16S
ATOM  29668  O2*  C    A1403     188.758  99.695 -20.470  1.00 44.73      A16S
ATOM  29669  C3*  C    A1403     188.164  99.739 -18.136  1.00 44.73      A16S
ATOM  29670  O3*  C    A1403     187.004  99.061 -18.618  1.00 44.73      A16S
ATOM  29671  P    C    A1404     186.761  97.507 -18.283  1.00 33.06      A16S
ATOM  29672  O1P  C    A1404     185.299  97.392 -18.147  1.00 53.08      A16S
ATOM  29673  O2P  C    A1404     187.639  97.016 -17.200  1.00 53.08      A16S
ATOM  29674  O5*  C    A1404     187.156  96.765 -19.626  1.00 33.06      A16S
ATOM  29675  C5*  C    A1404     186.610  97.206 -20.873  1.00 33.06      A16S
ATOM  29676  C4*  C    A1404     187.371  96.607 -22.026  1.00 33.06      A16S
ATOM  29677  O4*  C    A1404     188.682  97.218 -22.160  1.00 33.06      A16S
ATOM  29678  C1*  C    A1404     189.616  96.241 -22.597  1.00 33.06      A16S
ATOM  29679  N1   C    A1404     190.615  96.082 -21.528  1.00 53.08      A16S
ATOM  29680  C6   C    A1404     190.322  96.450 -20.240  1.00 53.08      A16S
ATOM  29681  C2   C    A1404     191.858  95.533 -21.839  1.00 53.08      A16S
ATOM  29682  O2   C    A1404     192.102  95.222 -23.015  1.00 53.08      A16S
ATOM  29683  N3   C    A1404     192.759  95.354 -20.849  1.00 53.08      A16S
ATOM  29684  C4   C    A1404     192.453  95.699 -19.595  1.00 53.08      A16S
ATOM  29685  N4   C    A1404     193.359  95.480 -18.649  1.00 53.08      A16S
ATOM  29686  C5   C    A1404     191.200  96.277 -19.255  1.00 53.08      A16S
ATOM  29687  C2*  C    A1404     188.835  94.939 -22.844  1.00 33.06      A16S
ATOM  29688  O2*  C    A1404     188.381  94.838 -24.188  1.00 33.06      A16S
ATOM  29689  C3*  C    A1404     187.650  95.123 -21.916  1.00 33.06      A16S
ATOM  29690  O3*  C    A1404     186.552  94.385 -22.344  1.00 33.06      A16S
ATOM  29691  P    G    A1405     186.022  93.200 -21.436  1.00 35.20      A16S
ATOM  29692  O1P  G    A1405     184.554  93.132 -21.663  1.00 44.64      A16S
ATOM  29693  O2P  G    A1405     186.551  93.370 -20.066  1.00 44.64      A16S
ATOM  29694  O5*  G    A1405     186.703  91.921 -22.076  1.00 35.20      A16S
ATOM  29695  C5*  G    A1405     186.462  91.581 -23.449  1.00 35.20      A16S
ATOM  29696  C4*  G    A1405     187.654  90.866 -24.035  1.00 35.20      A16S
ATOM  29697  O4*  G    A1405     188.782  91.775 -24.152  1.00 35.20      A16S
ATOM  29698  C1*  G    A1405     189.989  91.050 -23.992  1.00 35.20      A16S
ATOM  29699  N9   G    A1405     190.704  91.552 -22.823  1.00 44.64      A16S
ATOM  29700  C4   G    A1405     192.058  91.463 -22.604  1.00 44.64      A16S
ATOM  29701  N3   G    A1405     192.972  90.969 -23.467  1.00 44.64      A16S
ATOM  29702  C2   G    A1405     194.183  90.972 -22.955  1.00 44.64      A16S
ATOM  29703  N2   G    A1405     195.213  90.538 -23.687  1.00 44.64      A16S
ATOM  29704  N1   G    A1405     194.473  91.404 -21.692  1.00 44.64      A16S
ATOM  29705  C6   G    A1405     193.548  91.904 -20.786  1.00 44.64      A16S
ATOM  29706  O6   G    A1405     193.911  92.232 -19.656  1.00 44.64      A16S
ATOM  29707  C5   G    A1405     192.251  91.937 -21.332  1.00 44.64      A16S
ATOM  29708  N7   G    A1405     191.055  92.372 -20.782  1.00 44.64      A16S
ATOM  29709  C8   G    A1405     190.169  92.135 -21.706  1.00 44.64      A16S
ATOM  29710  C2*  G    A1405     189.619  89.580 -23.771  1.00 35.20      A16S
ATOM  29711  O2*  G    A1405     189.693  88.893 -25.008  1.00 35.20      A16S
ATOM  29712  C3*  G    A1405     188.196  89.691 -23.243  1.00 35.20      A16S
ATOM  29713  O3*  G    A1405     187.457  88.510 -23.489  1.00 35.20      A16S
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ATOM  29714  P    U    A1406     187.428  87.350 -22.382  1.00 33.95      A16S
ATOM  29715  O1P  U    A1406     186.207  86.542 -22.617  1.00 61.51      A16S
ATOM  29716  O2P  U    A1406     187.658  87.975 -21.062  1.00 61.51      A16S
ATOM  29717  O5*  U    A1406     188.718  86.465 -22.697  1.00 33.95      A16S
ATOM  29718  C5*  U    A1406     189.047  86.102 -24.041  1.00 33.95      A16S
ATOM  29719  C4*  U    A1406     190.461  85.570 -24.134  1.00 33.95      A16S
ATOM  29720  O4*  U    A1406     191.456  86.633 -24.109  1.00 33.95      A16S
ATOM  29721  C1*  U    A1406     192.683  86.107 -23.625  1.00 33.95      A16S
ATOM  29722  N1   U    A1406     193.125  86.861 -22.437  1.00 61.51      A16S
ATOM  29723  C6   U    A1406     192.266  87.639 -21.712  1.00 61.51      A16S
ATOM  29724  C2   U    A1406     194.449  86.738 -22.055  1.00 61.51      A16S
ATOM  29725  O2   U    A1406     195.260  86.081 -22.679  1.00 61.51      A16S
ATOM  29726  N3   U    A1406     194.794  87.410 -20.913  1.00 61.51      A16S
ATOM  29727  C4   U    A1406     193.977  88.181 -20.134  1.00 61.51      A16S
ATOM  29728  O4   U    A1406     194.414  88.660 -19.088  1.00 61.51      A16S
ATOM  29729  C5   U    A1406     192.637  88.286 -20.604  1.00 61.51      A16S
ATOM  29730  C2*  U    A1406     192.443  84.627 -23.302  1.00 33.95      A16S
ATOM  29731  O2*  U    A1406     192.814  83.868 -24.435  1.00 33.95      A16S
ATOM  29732  C3*  U    A1406     190.936  84.579 -23.091  1.00 33.95      A16S
ATOM  29733  O3*  U    A1406     190.448  83.281 -23.362  1.00 33.95      A16S
ATOM  29734  P    C    A1407     190.195  82.252 -22.151  1.00 40.95      A16S
ATOM  29735  O1P  C    A1407     189.894  80.915 -22.719  1.00 64.82      A16S
ATOM  29736  O2P  C    A1407     189.254  82.849 -21.173  1.00 64.82      A16S
ATOM  29737  O5*  C    A1407     191.622  82.164 -21.463  1.00 40.95      A16S
ATOM  29738  C5*  C    A1407     192.760  81.695 -22.187  1.00 40.95      A16S
ATOM  29739  C4*  C    A1407     193.971  81.723 -21.301  1.00 40.95      A16S
ATOM  29740  O4*  C    A1407     194.382  83.092 -21.044  1.00 40.95      A16S
ATOM  29741  C1*  C    A1407     194.892  83.196 -19.724  1.00 40.95      A16S
ATOM  29742  N1   C    A1407     194.110  84.208 -18.981  1.00 64.82      A16S
ATOM  29743  C6   C    A1407     192.838  84.527 -19.361  1.00 64.82      A16S
ATOM  29744  C2   C    A1407     194.687  84.829 -17.864  1.00 64.82      A16S
ATOM  29745  O2   C    A1407     195.851  84.544 -17.547  1.00 64.82      A16S
ATOM  29746  N3   C    A1407     193.964  85.722 -17.159  1.00 64.82      A16S
ATOM  29747  C4   C    A1407     192.716  86.004 -17.526  1.00 64.82      A16S
ATOM  29748  N4   C    A1407     192.025  86.867 -16.783  1.00 64.82      A16S
ATOM  29749  C5   C    A1407     192.113  85.408 -18.669  1.00 64.82      A16S
ATOM  29750  C2*  C    A1407     194.818  81.803 -19.089  1.00 40.95      A16S
ATOM  29751  O2*  C    A1407     196.068  81.150 -19.214  1.00 40.95      A16S
ATOM  29752  C3*  C    A1407     193.741  81.135 -19.928  1.00 40.95      A16S
ATOM  29753  O3*  C    A1407     193.860  79.734 -19.939  1.00 40.95      A16S
ATOM  29754  P    A    A1408     193.201  78.886 -18.749  1.00 48.72      A16S
ATOM  29755  O1P  A    A1408     193.433  77.430 -18.997  1.00 62.62      A16S
ATOM  29756  O2P  A    A1408     191.812  79.379 -18.549  1.00 62.62      A16S
ATOM  29757  O5*  A    A1408     194.059  79.329 -17.484  1.00 48.72      A16S
ATOM  29758  C5*  A    A1408     195.415  78.918 -17.355  1.00 48.72      A16S
ATOM  29759  C4*  A    A1408     195.933  79.277 -15.995  1.00 48.72      A16S
ATOM  29760  O4*  A    A1408     195.989  80.717 -15.851  1.00 48.72      A16S
ATOM  29761  C1*  A    A1408     195.806  81.062 -14.490  1.00 48.72      A16S
ATOM  29762  N9   A    A1408     194.702  82.015 -14.387  1.00 62.62      A16S
ATOM  29763  C4   A    A1408     194.351  82.708 -13.257  1.00 62.62      A16S
ATOM  29764  N3   A    A1408     194.939  82.647 -12.057  1.00 62.62      A16S
ATOM  29765  C2   A    A1408     194.337  83.463 -11.200  1.00 62.62      A16S
ATOM  29766  N1   A    A1408     193.291  84.272 -11.391  1.00 62.62      A16S
ATOM  29767  C6   A    A1408     192.717  84.307 -12.607  1.00 62.62      A16S
ATOM  29768  N6   A    A1408     191.670  85.112 -12.790  1.00 62.62      A16S
ATOM  29769  C5   A    A1408     193.266  83.486 -13.610  1.00 62.62      A16S
ATOM  29770  N7   A    A1408     192.932  83.285 -14.940  1.00 62.62      A16S
ATOM  29771  C8   A    A1408     193.814  82.407 -15.355  1.00 62.62      A16S
ATOM  29772  C2*  A    A1408     195.565  79.766 -13.715  1.00 48.72      A16S
ATOM  29773  O2*  A    A1408     196.798  79.337 -13.182  1.00 48.72      A16S
ATOM  29774  C3*  A    A1408     195.102  78.824 -14.813  1.00 48.72      A16S
ATOM  29775  O3*  A    A1408     195.370  77.483 -14.479  1.00 48.72      A16S
ATOM  29776  P    C    A1409     194.219  76.602 -13.798  1.00 54.34      A16S
ATOM  29777  O1P  C    A1409     194.753  75.228 -13.575  1.00 62.66      A16S
ATOM  29778  O2P  C    A1409     192.975  76.781 -14.594  1.00 62.66      A16S
ATOM  29779  O5*  C    A1409     194.009  77.296 -12.380  1.00 54.34      A16S
ATOM  29780  C5*  C    A1409     194.962  77.103 -11.325  1.00 54.34      A16S
ATOM  29781  C4*  C    A1409     194.466  77.713 -10.037  1.00 54.34      A16S
ATOM  29782  O4*  C    A1409     194.506  79.159 -10.126  1.00 54.34      A16S
ATOM  29783  C1*  C    A1409     193.424  79.711  -9.398  1.00 54.34      A16S
ATOM  29784  N1   C    A1409     192.556  80.459 -10.329  1.00 62.66      A16S
ATOM  29785  C6   C    A1409     192.527  80.160 -11.663  1.00 62.66      A16S
ATOM  29786  C2   C    A1409     191.724  81.456  -9.817  1.00 62.66      A16S
ATOM  29787  O2   C    A1409     191.820  81.763  -8.624  1.00 62.66      A16S
ATOM  29788  N3   C    A1409     190.844  82.069 -10.637  1.00 62.66      A16S
ATOM  29789  C4   C    A1409     190.795  81.739 -11.926  1.00 62.66      A16S
ATOM  29790  N4   C    A1409     189.893  82.351 -12.691  1.00 62.66      A16S
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ATOM  29791  C5  C   A1409     191.667  80.766 -12.487  1.00 62.66      A16S
ATOM  29792  C2* C   A1409     192.664  78.548  -8.752  1.00 54.34      A16S
ATOM  29793  O2* C   A1409     193.113  78.330  -7.433  1.00 54.34      A16S
ATOM  29794  C3* C   A1409     193.034  77.395  -9.664  1.00 54.34      A16S
ATOM  29795  O3* C   A1409     192.886  76.149  -9.022  1.00 54.34      A16S
ATOM  29796  P   G   A1410     191.494  75.366  -9.162  1.00 68.42      A16S
ATOM  29797  O1P G   A1410     191.620  74.034  -8.514  1.00 59.88      A16S
ATOM  29798  O2P G   A1410     191.073  75.446 -10.588  1.00 59.88      A16S
ATOM  29799  O5* G   A1410     190.498  76.253  -8.296  1.00 68.42      A16S
ATOM  29800  C5* G   A1410     190.695  76.389  -6.887  1.00 68.42      A16S
ATOM  29801  C4* G   A1410     189.592  77.210  -6.277  1.00 68.42      A16S
ATOM  29802  O4* G   A1410     189.682  78.570  -6.762  1.00 68.42      A16S
ATOM  29803  C1* G   A1410     188.383  79.131  -6.842  1.00 68.42      A16S
ATOM  29804  N9  G   A1410     188.160  79.581  -8.212  1.00 59.88      A16S
ATOM  29805  C4  G   A1410     187.149  80.402  -8.642  1.00 59.88      A16S
ATOM  29806  N3  G   A1410     186.186  80.943  -7.870  1.00 59.88      A16S
ATOM  29807  C2  G   A1410     185.355  81.685  -8.572  1.00 59.88      A16S
ATOM  29808  N2  G   A1410     184.340  82.288  -7.964  1.00 59.88      A16S
ATOM  29809  N1  G   A1410     185.456  81.885  -9.924  1.00 59.88      A16S
ATOM  29810  C6  G   A1410     186.434  81.331 -10.741  1.00 59.88      A16S
ATOM  29811  O6  G   A1410     186.423  81.556 -11.958  1.00 59.88      A16S
ATOM  29812  C5  G   A1410     187.340  80.536  -9.999  1.00 59.88      A16S
ATOM  29813  N7  G   A1410     188.454  79.823 -10.411  1.00 59.88      A16S
ATOM  29814  C8  G   A1410     188.907  79.273  -9.319  1.00 59.88      A16S
ATOM  29815  C2* G   A1410     187.381  78.070  -6.378  1.00 68.42      A16S
ATOM  29816  O2* G   A1410     187.066  78.273  -5.013  1.00 68.42      A16S
ATOM  29817  C3* G   A1410     188.167  76.786  -6.596  1.00 68.42      A16S
ATOM  29818  O3* G   A1410     187.713  75.746  -5.747  1.00 68.42      A16S
ATOM  29819  P   C   A1411     186.538  74.776  -6.254  1.00 69.27      A16S
ATOM  29820  O1P C   A1411     186.403  73.701  -5.235  1.00 72.03      A16S
ATOM  29821  O2P C   A1411     186.802  74.409  -7.675  1.00 72.03      A16S
ATOM  29822  O5* C   A1411     185.235  75.695  -6.181  1.00 69.27      A16S
ATOM  29823  C5* C   A1411     184.713  76.101  -4.900  1.00 69.27      A16S
ATOM  29824  C4* C   A1411     183.482  76.971  -5.052  1.00 69.27      A16S
ATOM  29825  O4* C   A1411     183.829  78.226  -5.682  1.00 69.27      A16S
ATOM  29826  C1* C   A1411     182.720  78.708  -6.414  1.00 69.27      A16S
ATOM  29827  N1  C   A1411     183.108  78.882  -7.823  1.00 72.03      A16S
ATOM  29828  C6  C   A1411     184.255  78.328  -8.319  1.00 72.03      A16S
ATOM  29829  C2  C   A1411     182.269  79.634  -8.659  1.00 72.03      A16S
ATOM  29830  O2  C   A1411     181.229  80.118  -8.187  1.00 72.03      A16S
ATOM  29831  N3  C   A1411     182.610  79.808  -9.955  1.00 72.03      A16S
ATOM  29832  C4  C   A1411     183.729  79.266 -10.427  1.00 72.03      A16S
ATOM  29833  N4  C   A1411     184.021  79.467 -11.704  1.00 72.03      A16S
ATOM  29834  C5  C   A1411     184.599  78.492  -9.603  1.00 72.03      A16S
ATOM  29835  C2* C   A1411     181.578  77.710  -6.246  1.00 69.27      A16S
ATOM  29836  O2* C   A1411     180.732  78.158  -5.207  1.00 69.27      A16S
ATOM  29837  C3* C   A1411     182.329  76.439  -5.883  1.00 69.27      A16S
ATOM  29838  O3* C   A1411     181.500  75.551  -5.156  1.00 69.27      A16S
ATOM  29839  P   C   A1412     180.652  74.442  -5.949  1.00 77.81      A16S
ATOM  29840  O1P C   A1412     179.845  73.703  -4.937  1.00 69.96      A16S
ATOM  29841  O2P C   A1412     181.599  73.692  -6.809  1.00 69.96      A16S
ATOM  29842  O5* C   A1412     179.670  75.293  -6.880  1.00 77.81      A16S
ATOM  29843  C5* C   A1412     178.640  76.098  -6.283  1.00 77.81      A16S
ATOM  29844  C4* C   A1412     177.939  76.968  -7.306  1.00 77.81      A16S
ATOM  29845  O4* C   A1412     178.876  77.874  -7.946  1.00 77.81      A16S
ATOM  29846  C1* C   A1412     178.377  78.241  -9.226  1.00 77.81      A16S
ATOM  29847  N1  C   A1412     179.375  77.923 -10.266  1.00 69.96      A16S
ATOM  29848  C6  C   A1412     180.284  76.920 -10.087  1.00 69.96      A16S
ATOM  29849  C2  C   A1412     179.364  78.660 -11.465  1.00 69.96      A16S
ATOM  29850  O2  C   A1412     178.546  79.585 -11.602  1.00 69.96      A16S
ATOM  29851  N3  C   A1412     180.244  78.344 -12.440  1.00 69.96      A16S
ATOM  29852  C4  C   A1412     181.114  77.350 -12.256  1.00 69.96      A16S
ATOM  29853  N4  C   A1412     181.951  77.061 -13.247  1.00 69.96      A16S
ATOM  29854  C5  C   A1412     181.162  76.604 -11.047  1.00 69.96      A16S
ATOM  29855  C2* C   A1412     177.078  77.469  -9.449  1.00 77.81      A16S
ATOM  29856  O2* C   A1412     175.992  78.314  -9.124  1.00 77.81      A16S
ATOM  29857  C3* C   A1412     177.230  76.308  -8.473  1.00 77.81      A16S
ATOM  29858  O3* C   A1412     175.964  75.770  -8.129  1.00 77.81      A16S
ATOM  29859  P   A   A1413     175.394  74.513  -8.955  1.00 66.61      A16S
ATOM  29860  O1P A   A1413     174.443  73.795  -8.063  1.00 57.21      A16S
ATOM  29861  O2P A   A1413     176.541  73.773  -9.546  1.00 57.21      A16S
ATOM  29862  O5* A   A1413     174.582  75.168 -10.159  1.00 66.61      A16S
ATOM  29863  C5* A   A1413     173.342  75.856  -9.915  1.00 66.61      A16S
ATOM  29864  C4* A   A1413     172.953  76.689 -11.110  1.00 66.61      A16S
ATOM  29865  O4* A   A1413     173.995  77.666 -11.371  1.00 66.61      A16S
ATOM  29866  C1* A   A1413     174.141  77.852 -12.768  1.00 66.61      A16S
ATOM  29867  N9  A   A1413     175.438  77.310 -13.171  1.00 57.21      A16S
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ATOM  29868  C4  A  A1413     176.082  77.587 -14.350  1.00 57.21      A16S
ATOM  29869  N3  A  A1413     175.677  78.425 -15.318  1.00 57.21      A16S
ATOM  29870  C2  A  A1413     176.537  78.422 -16.326  1.00 57.21      A16S
ATOM  29871  N1  A  A1413     177.671  77.727 -16.469  1.00 57.21      A16S
ATOM  29872  C6  A  A1413     178.047  76.888 -15.482  1.00 57.21      A16S
ATOM  29873  N6  A  A1413     179.167  76.180 -15.636  1.00 57.21      A16S
ATOM  29874  C5  A  A1413     177.223  76.806 -14.349  1.00 57.21      A16S
ATOM  29875  N7  A  A1413     177.314  76.067 -13.175  1.00 57.21      A16S
ATOM  29876  C8  A  A1413     176.238  76.406 -12.509  1.00 57.21      A16S
ATOM  29877  C2* A  A1413     173.032  77.050 -13.443  1.00 66.61      A16S
ATOM  29878  O2* A  A1413     171.898  77.878 -13.627  1.00 66.61      A16S
ATOM  29879  C3* A  A1413     172.807  75.945 -12.423  1.00 66.61      A16S
ATOM  29880  O3* A  A1413     171.548  75.328 -12.566  1.00 66.61      A16S
ATOM  29881  P   U  A1414     171.412  74.030 -13.501  1.00 65.66      A16S
ATOM  29882  O1P U  A1414     169.978  73.650 -13.487  1.00 62.89      A16S
ATOM  29883  O2P U  A1414     172.441  73.034 -13.117  1.00 62.89      A16S
ATOM  29884  O5* U  A1414     171.766  74.560 -14.956  1.00 65.66      A16S
ATOM  29885  C5* U  A1414     170.976  75.592 -15.550  1.00 65.66      A16S
ATOM  29886  C4* U  A1414     171.595  76.050 -16.840  1.00 65.66      A16S
ATOM  29887  O4* U  A1414     172.942  76.534 -16.596  1.00 65.66      A16S
ATOM  29888  C1* U  A1414     173.746  76.297 -17.740  1.00 65.66      A16S
ATOM  29889  N1  U  A1414     174.899  75.464 -17.370  1.00 62.89      A16S
ATOM  29890  C6  U  A1414     174.879  74.639 -16.277  1.00 62.89      A16S
ATOM  29891  C2  U  A1414     175.999  75.519 -18.198  1.00 62.89      A16S
ATOM  29892  O2  U  A1414     176.074  76.281 -19.148  1.00 62.89      A16S
ATOM  29893  N3  U  A1414     177.011  74.652 -17.878  1.00 62.89      A16S
ATOM  29894  C4  U  A1414     177.039  73.758 -16.831  1.00 62.89      A16S
ATOM  29895  O4  U  A1414     177.929  72.900 -16.794  1.00 62.89      A16S
ATOM  29896  C5  U  A1414     175.884  73.807 -15.985  1.00 62.89      A16S
ATOM  29897  C2* U  A1414     172.878  75.580 -18.773  1.00 65.66      A16S
ATOM  29898  O2* U  A1414     172.399  76.508 -19.724  1.00 65.66      A16S
ATOM  29899  C3* U  A1414     171.791  74.982 -17.892  1.00 65.66      A16S
ATOM  29900  O3* U  A1414     170.607  74.695 -18.598  1.00 65.66      A16S
ATOM  29901  P   G  A1415     170.514  73.337 -19.445  1.00 39.37      A16S
ATOM  29902  O1P G  A1415     169.067  73.059 -19.648  1.00 47.05      A16S
ATOM  29903  O2P G  A1415     171.368  72.296 -18.820  1.00 47.05      A16S
ATOM  29904  O5* G  A1415     171.149  73.754 -20.845  1.00 39.37      A16S
ATOM  29905  C5* G  A1415     170.493  74.728 -21.658  1.00 39.37      A16S
ATOM  29906  C4* G  A1415     171.259  74.965 -22.926  1.00 39.37      A16S
ATOM  29907  O4* G  A1415     172.579  75.453 -22.602  1.00 39.37      A16S
ATOM  29908  C1* G  A1415     173.515  74.974 -23.547  1.00 39.37      A16S
ATOM  29909  N9  G  A1415     174.453  74.110 -22.838  1.00 47.05      A16S
ATOM  29910  C4  G  A1415     175.533  73.453 -23.373  1.00 47.05      A16S
ATOM  29911  N3  G  A1415     175.933  73.499 -24.659  1.00 47.05      A16S
ATOM  29912  C2  G  A1415     177.000  72.750 -24.869  1.00 47.05      A16S
ATOM  29913  N2  G  A1415     177.532  72.673 -26.094  1.00 47.05      A16S
ATOM  29914  N1  G  A1415     177.624  72.019 -23.893  1.00 47.05      A16S
ATOM  29915  C6  G  A1415     177.228  71.957 -22.564  1.00 47.05      A16S
ATOM  29916  O6  G  A1415     177.862  71.269 -21.765  1.00 47.05      A16S
ATOM  29917  C5  G  A1415     176.087  72.750 -22.326  1.00 47.05      A16S
ATOM  29918  N7  G  A1415     175.376  72.966 -21.155  1.00 47.05      A16S
ATOM  29919  C8  G  A1415     174.421  73.780 -21.505  1.00 47.05      A16S
ATOM  29920  C2* G  A1415     172.726  74.216 -24.609  1.00 39.37      A16S
ATOM  29921  O2* G  A1415     172.388  75.129 -25.636  1.00 39.37      A16S
ATOM  29922  C3* G  A1415     171.514  73.763 -23.807  1.00 39.37      A16S
ATOM  29923  O3* G  A1415     170.389  73.466 -24.616  1.00 39.37      A16S
ATOM  29924  P   G  A1416     170.017  71.934 -24.914  1.00 50.82      A16S
ATOM  29925  O1P G  A1416     168.788  71.930 -25.734  1.00 69.29      A16S
ATOM  29926  O2P G  A1416     170.042  71.176 -23.633  1.00 69.29      A16S
ATOM  29927  O5* G  A1416     171.213  71.455 -25.841  1.00 50.82      A16S
ATOM  29928  C5* G  A1416     171.397  72.041 -27.136  1.00 50.82      A16S
ATOM  29929  C4* G  A1416     172.564  71.399 -27.843  1.00 50.82      A16S
ATOM  29930  O4* G  A1416     173.790  71.763 -27.171  1.00 50.82      A16S
ATOM  29931  C1* G  A1416     174.695  70.676 -27.216  1.00 50.82      A16S
ATOM  29932  N9  G  A1416     175.001  70.280 -25.846  1.00 69.29      A16S
ATOM  29933  C4  G  A1416     175.961  69.388 -25.463  1.00 69.29      A16S
ATOM  29934  N3  G  A1416     176.795  68.727 -26.287  1.00 69.29      A16S
ATOM  29935  C2  G  A1416     177.596  67.920 -25.623  1.00 69.29      A16S
ATOM  29936  N2  G  A1416     178.484  67.169 -26.292  1.00 69.29      A16S
ATOM  29937  N1  G  A1416     177.584  67.783 -24.256  1.00 69.29      A16S
ATOM  29938  C6  G  A1416     176.735  68.460 -23.394  1.00 69.29      A16S
ATOM  29939  O6  G  A1416     176.802  68.263 -22.184  1.00 69.29      A16S
ATOM  29940  C5  G  A1416     175.872  69.319 -24.090  1.00 69.29      A16S
ATOM  29941  N7  G  A1416     174.881  70.162 -23.619  1.00 69.29      A16S
ATOM  29942  C8  G  A1416     174.391  70.712 -24.695  1.00 69.29      A16S
ATOM  29943  C2* G  A1416     174.045  69.554 -28.026  1.00 50.82      A16S
ATOM  29944  O2* G  A1416     174.457  69.658 -29.370  1.00 50.82      A16S
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ATOM  29945  C3* G   A1416     172.569  69.878 -27.873  1.00 50.82      A16S
ATOM  29946  O3* G   A1416     171.805  69.368 -28.958  1.00 50.82      A16S
ATOM  29947  P   G   A1417     170.901  68.065 -28.736  1.00 68.20      A16S
ATOM  29948  O1P G   A1417     170.261  67.761 -30.035  1.00 86.37      A16S
ATOM  29949  O2P G   A1417     170.054  68.257 -27.533  1.00 86.37      A16S
ATOM  29950  O5* G   A1417     171.970  66.935 -28.394  1.00 68.20      A16S
ATOM  29951  C5* G   A1417     173.028  66.598 -29.318  1.00 68.20      A16S
ATOM  29952  C4* G   A1417     174.060  65.730 -28.634  1.00 68.20      A16S
ATOM  29953  O4* G   A1417     174.701  66.500 -27.591  1.00 68.20      A16S
ATOM  29954  C1* G   A1417     174.929  65.686 -26.457  1.00 68.20      A16S
ATOM  29955  N9  G   A1417     174.220  66.292 -25.338  1.00 86.37      A16S
ATOM  29956  C4  G   A1417     174.477  66.126 -23.998  1.00 86.37      A16S
ATOM  29957  N3  G   A1417     175.428  65.332 -23.461  1.00 86.37      A16S
ATOM  29958  C2  G   A1417     175.427  65.388 -22.134  1.00 86.37      A16S
ATOM  29959  N2  G   A1417     176.285  64.636 -21.429  1.00 86.37      A16S
ATOM  29960  N1  G   A1417     174.575  66.180 -21.399  1.00 86.37      A16S
ATOM  29961  C6  G   A1417     173.590  67.010 -21.931  1.00 86.37      A16S
ATOM  29962  O6  G   A1417     172.867  67.694 -21.174  1.00 86.37      A16S
ATOM  29963  C5  G   A1417     173.566  66.939 -23.349  1.00 86.37      A16S
ATOM  29964  N7  G   A1417     172.742  67.582 -24.262  1.00 86.37      A16S
ATOM  29965  C8  G   A1417     173.164  67.167 -25.424  1.00 86.37      A16S
ATOM  29966  C2* G   A1417     174.488  64.262 -26.802  1.00 68.20      A16S
ATOM  29967  O2* G   A1417     175.621  63.532 -27.218  1.00 68.20      A16S
ATOM  29968  C3* G   A1417     173.498  64.500 -27.940  1.00 68.20      A16S
ATOM  29969  O3* G   A1417     173.448  63.402 -28.854  1.00 68.20      A16S
ATOM  29970  P   A   A1418     172.206  62.375 -28.820  1.00120.12      A16S
ATOM  29971  O1P A   A1418     171.322  62.722 -29.964  1.00 92.31      A16S
ATOM  29972  O2P A   A1418     171.635  62.307 -27.450  1.00 92.31      A16S
ATOM  29973  O5* A   A1418     172.883  60.963 -29.117  1.00120.12      A16S
ATOM  29974  C5* A   A1418     173.677  60.747 -30.303  1.00120.12      A16S
ATOM  29975  C4* A   A1418     174.659  59.618 -30.079  1.00120.12      A16S
ATOM  29976  O4* A   A1418     175.673  60.028 -29.124  1.00120.12      A16S
ATOM  29977  C1* A   A1418     176.068  58.915 -28.340  1.00120.12      A16S
ATOM  29978  N9  A   A1418     175.788  59.210 -26.936  1.00 92.31      A16S
ATOM  29979  C4  A   A1418     176.548  58.841 -25.852  1.00 92.31      A16S
ATOM  29980  N3  A   A1418     177.705  58.162 -25.858  1.00 92.31      A16S
ATOM  29981  C2  A   A1418     178.143  57.970 -24.615  1.00 92.31      A16S
ATOM  29982  N1  A   A1418     177.600  58.354 -23.456  1.00 92.31      A16S
ATOM  29983  C6  A   A1418     176.439  59.036 -23.487  1.00 92.31      A16S
ATOM  29984  N6  A   A1418     175.896  59.420 -22.333  1.00 92.31      A16S
ATOM  29985  C5  A   A1418     175.869  59.300 -24.741  1.00 92.31      A16S
ATOM  29986  N7  A   A1418     174.710  59.959 -25.115  1.00 92.31      A16S
ATOM  29987  C8  A   A1418     174.711  59.883 -26.422  1.00 92.31      A16S
ATOM  29988  C2* A   A1418     175.283  57.695 -28.825  1.00120.12      A16S
ATOM  29989  O2* A   A1418     176.070  56.937 -29.720  1.00120.12      A16S
ATOM  29990  C3* A   A1418     174.076  58.342 -29.493  1.00120.12      A16S
ATOM  29991  O3* A   A1418     173.503  57.500 -30.487  1.00120.12      A16S
ATOM  29992  P   G   A1419     172.192  56.633 -30.137  1.00113.87      A16S
ATOM  29993  O1P G   A1419     172.033  55.634 -31.226  1.00120.81      A16S
ATOM  29994  O2P G   A1419     171.074  57.554 -29.815  1.00120.81      A16S
ATOM  29995  O5* G   A1419     172.570  55.857 -28.800  1.00113.87      A16S
ATOM  29996  C5* G   A1419     173.515  54.775 -28.815  1.00113.87      A16S
ATOM  29997  C4* G   A1419     173.795  54.313 -27.407  1.00113.87      A16S
ATOM  29998  O4* G   A1419     174.384  55.408 -26.657  1.00113.87      A16S
ATOM  29999  C1* G   A1419     173.950  55.351 -25.307  1.00113.87      A16S
ATOM  30000  N9  G   A1419     173.265  56.600 -24.975  1.00120.81      A16S
ATOM  30001  C4  G   A1419     173.192  57.178 -23.730  1.00120.81      A16S
ATOM  30002  N3  G   A1419     173.756  56.701 -22.601  1.00120.81      A16S
ATOM  30003  C2  G   A1419     173.500  57.467 -21.557  1.00120.81      A16S
ATOM  30004  N2  G   A1419     173.988  57.135 -20.352  1.00120.81      A16S
ATOM  30005  N1  G   A1419     172.747  58.614 -21.616  1.00120.81      A16S
ATOM  30006  C6  G   A1419     172.152  59.125 -22.764  1.00120.81      A16S
ATOM  30007  O6  G   A1419     171.480  60.167 -22.702  1.00120.81      A16S
ATOM  30008  C5  G   A1419     172.424  58.311 -23.896  1.00120.81      A16S
ATOM  30009  N7  G   A1419     172.031  58.451 -25.220  1.00120.81      A16S
ATOM  30010  C8  G   A1419     172.553  57.417 -25.823  1.00120.81      A16S
ATOM  30011  C2* G   A1419     173.046  54.124 -25.156  1.00113.87      A16S
ATOM  30012  O2* G   A1419     173.796  53.038 -24.645  1.00113.87      A16S
ATOM  30013  C3* G   A1419     172.578  53.902 -26.590  1.00113.87      A16S
ATOM  30014  O3* G   A1419     172.195  52.550 -26.832  1.00113.87      A16S
ATOM  30015  P   C   A1420     170.691  52.077 -26.500  1.00137.75      A16S
ATOM  30016  O1P C   A1420     170.592  50.639 -26.865  1.00163.47      A16S
ATOM  30017  O2P C   A1420     169.731  53.051 -27.081  1.00163.47      A16S
ATOM  30018  O5* C   A1420     170.596  52.187 -24.917  1.00137.75      A16S
ATOM  30019  C5* C   A1420     171.386  51.330 -24.082  1.00137.75      A16S
ATOM  30020  C4* C   A1420     171.227  51.717 -22.637  1.00137.75      A16S
ATOM  30021  O4* C   A1420     171.786  53.039 -22.419  1.00137.75      A16S
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ATOM  30022  C1* C   A1420     171.048  53.706 -21.406  1.00137.75      A16S
ATOM  30023  N1  C   A1420     170.483  54.957 -21.956  1.00163.47      A16S
ATOM  30024  C6  C   A1420     170.027  55.021 -23.246  1.00163.47      A16S
ATOM  30025  C2  C   A1420     170.393  56.085 -21.119  1.00163.47      A16S
ATOM  30026  O2  C   A1420     170.842  56.018 -19.961  1.00163.47      A16S
ATOM  30027  N3  C   A1420     169.824  57.217 -21.595  1.00163.47      A16S
ATOM  30028  C4  C   A1420     169.365  57.259 -22.848  1.00163.47      A16S
ATOM  30029  N4  C   A1420     168.797  58.395 -23.266  1.00163.47      A16S
ATOM  30030  C5  C   A1420     169.465  56.139 -23.727  1.00163.47      A16S
ATOM  30031  C2* C   A1420     169.954  52.749 -20.927  1.00137.75      A16S
ATOM  30032  O2* C   A1420     170.389  52.067 -19.765  1.00137.75      A16S
ATOM  30033  C3* C   A1420     169.799  51.831 -22.133  1.00137.75      A16S
ATOM  30034  O3* C   A1420     169.222  50.573 -21.811  1.00137.75      A16S
ATOM  30035  P   G   A1421     167.630  50.372 -21.962  1.00166.08      A16S
ATOM  30036  O1P G   A1421     167.348  48.927 -21.780  1.00140.11      A16S
ATOM  30037  O2P G   A1421     167.164  51.058 -23.195  1.00140.11      A16S
ATOM  30038  O5* G   A1421     167.034  51.155 -20.711  1.00166.08      A16S
ATOM  30039  C5* G   A1421     167.409  50.783 -19.375  1.00166.08      A16S
ATOM  30040  C4* G   A1421     166.867  51.775 -18.377  1.00166.08      A16S
ATOM  30041  O4* G   A1421     167.558  53.047 -18.502  1.00166.08      A16S
ATOM  30042  C1* G   A1421     166.661  54.110 -18.209  1.00166.08      A16S
ATOM  30043  N9  G   A1421     166.479  54.928 -19.408  1.00140.11      A16S
ATOM  30044  C4  G   A1421     165.745  56.087 -19.478  1.00140.11      A16S
ATOM  30045  N3  G   A1421     165.113  56.681 -18.445  1.00140.11      A16S
ATOM  30046  C2  G   A1421     164.467  57.765 -18.820  1.00140.11      A16S
ATOM  30047  N2  G   A1421     163.786  58.469 -17.908  1.00140.11      A16S
ATOM  30048  N1  G   A1421     164.441  58.234 -20.112  1.00140.11      A16S
ATOM  30049  C6  G   A1421     165.082  57.636 -21.195  1.00140.11      A16S
ATOM  30050  O6  G   A1421     164.982  58.132 -22.325  1.00140.11      A16S
ATOM  30051  C5  G   A1421     165.788  56.471 -20.801  1.00140.11      A16S
ATOM  30052  N7  G   A1421     166.555  55.587 -21.547  1.00140.11      A16S
ATOM  30053  C8  G   A1421     166.950  54.693 -20.680  1.00140.11      A16S
ATOM  30054  C2* G   A1421     165.325  53.480 -17.817  1.00166.08      A16S
ATOM  30055  O2* G   A1421     165.232  53.349 -16.412  1.00166.08      A16S
ATOM  30056  C3* G   A1421     165.407  52.146 -18.542  1.00166.08      A16S
ATOM  30057  O3* G   A1421     164.507  51.184 -18.041  1.00166.08      A16S
ATOM  30058  P   G   A1422     163.073  51.027 -18.744  1.00173.26      A16S
ATOM  30059  O1P G   A1422     162.448  49.806 -18.180  1.00111.18      A16S
ATOM  30060  O2P G   A1422     163.253  51.150 -20.222  1.00111.18      A16S
ATOM  30061  O5* G   A1422     162.259  52.297 -18.229  1.00173.26      A16S
ATOM  30062  C5* G   A1422     162.036  52.501 -16.820  1.00173.26      A16S
ATOM  30063  C4* G   A1422     161.228  53.755 -16.582  1.00173.26      A16S
ATOM  30064  O4* G   A1422     161.998  54.921 -16.979  1.00173.26      A16S
ATOM  30065  C1* G   A1422     161.127  55.917 -17.492  1.00173.26      A16S
ATOM  30066  N9  G   A1422     161.422  56.113 -18.908  1.00111.18      A16S
ATOM  30067  C4  G   A1422     161.072  57.205 -19.664  1.00111.18      A16S
ATOM  30068  N3  G   A1422     160.428  58.300 -19.216  1.00111.18      A16S
ATOM  30069  C2  G   A1422     160.207  59.171 -20.183  1.00111.18      A16S
ATOM  30070  N2  G   A1422     159.571  60.315 -19.911  1.00111.18      A16S
ATOM  30071  N1  G   A1422     160.593  58.984 -21.488  1.00111.18      A16S
ATOM  30072  C6  G   A1422     161.259  57.865 -21.972  1.00111.18      A16S
ATOM  30073  O6  G   A1422     161.559  57.795 -23.169  1.00111.18      A16S
ATOM  30074  C5  G   A1422     161.500  56.920 -20.944  1.00111.18      A16S
ATOM  30075  N7  G   A1422     162.123  55.680 -20.990  1.00111.18      A16S
ATOM  30076  C8  G   A1422     162.059  55.242 -19.761  1.00111.18      A16S
ATOM  30077  C2* G   A1422     159.701  55.392 -17.348  1.00173.26      A16S
ATOM  30078  O2* G   A1422     159.140  55.846 -16.133  1.00173.26      A16S
ATOM  30079  C3* G   A1422     159.935  53.890 -17.368  1.00173.26      A16S
ATOM  30080  O3* G   A1422     158.844  53.171 -16.823  1.00173.26      A16S
ATOM  30081  P   G   A1423     157.609  52.784 -17.776  1.00178.60      A16S
ATOM  30082  O1P G   A1423     156.707  51.899 -16.997  1.00127.98      A16S
ATOM  30083  O2P G   A1423     158.142  52.322 -19.088  1.00127.98      A16S
ATOM  30084  O5* G   A1423     156.868  54.173 -18.016  1.00178.60      A16S
ATOM  30085  C5* G   A1423     156.342  54.920 -16.907  1.00178.60      A16S
ATOM  30086  C4* G   A1423     155.850  56.271 -17.364  1.00178.60      A16S
ATOM  30087  O4* G   A1423     156.961  57.044 -17.892  1.00178.60      A16S
ATOM  30088  C1* G   A1423     156.499  57.894 -18.930  1.00178.60      A16S
ATOM  30089  N9  G   A1423     157.188  57.556 -20.172  1.00127.98      A16S
ATOM  30090  C4  G   A1423     157.187  58.309 -21.322  1.00127.98      A16S
ATOM  30091  N3  G   A1423     156.556  59.488 -21.492  1.00127.98      A16S
ATOM  30092  C2  G   A1423     156.737  59.973 -22.703  1.00127.98      A16S
ATOM  30093  N2  G   A1423     156.173  61.138 -23.038  1.00127.98      A16S
ATOM  30094  N1  G   A1423     157.482  59.352 -23.674  1.00127.98      A16S
ATOM  30095  C6  G   A1423     158.142  58.138 -23.521  1.00127.98      A16S
ATOM  30096  O6  G   A1423     158.793  57.669 -24.459  1.00127.98      A16S
ATOM  30097  C5  G   A1423     157.950  57.603 -22.225  1.00127.98      A16S
ATOM  30098  N7  G   A1423     158.421  56.426 -21.658  1.00127.98      A16S
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ATOM  30099  C8  G  A1423     157.946  56.441 -20.441  1.00127.98      A16S
ATOM  30100  C2* G  A1423     154.994  57.679 -19.070  1.00178.60      A16S
ATOM  30101  O2* G  A1423     154.308  58.668 -18.328  1.00178.60      A16S
ATOM  30102  C3* G  A1423     154.834  56.280 -18.493  1.00178.60      A16S
ATOM  30103  O3* G  A1423     153.508  56.035 -18.062  1.00178.60      A16S
ATOM  30104  P   C  A1424     152.397  55.625 -19.147  1.00138.99      A16S
ATOM  30105  O1P C  A1424     151.140  55.316 -18.418  1.00104.36      A16S
ATOM  30106  O2P C  A1424     152.981  54.615 -20.065  1.00104.36      A16S
ATOM  30107  O5* C  A1424     152.182  56.963 -19.979  1.00138.99      A16S
ATOM  30108  C5* C  A1424     151.675  58.149 -19.344  1.00138.99      A16S
ATOM  30109  C4* C  A1424     151.512  59.252 -20.358  1.00138.99      A16S
ATOM  30110  O4* C  A1424     152.815  59.661 -20.853  1.00138.99      A16S
ATOM  30111  C1* C  A1424     152.719  59.990 -22.229  1.00138.99      A16S
ATOM  30112  N1  C  A1424     153.565  59.058 -22.997  1.00104.36      A16S
ATOM  30113  C6  C  A1424     153.955  57.858 -22.469  1.00104.36      A16S
ATOM  30114  C2  C  A1424     153.952  59.414 -24.295  1.00104.36      A16S
ATOM  30115  O2  C  A1424     153.607  60.519 -24.744  1.00104.36      A16S
ATOM  30116  N3  C  A1424     154.695  58.549 -25.024  1.00104.36      A16S
ATOM  30117  C4  C  A1424     155.059  57.378 -24.502  1.00104.36      A16S
ATOM  30118  N4  C  A1424     155.788  56.556 -25.259  1.00104.36      A16S
ATOM  30119  C5  C  A1424     154.694  56.996 -23.179  1.00104.36      A16S
ATOM  30120  C2* C  A1424     151.250  59.863 -22.635  1.00138.99      A16S
ATOM  30121  O2* C  A1424     150.623  61.127 -22.552  1.00138.99      A16S
ATOM  30122  C3* C  A1424     150.735  58.867 -21.605  1.00138.99      A16S
ATOM  30123  O3* C  A1424     149.329  58.925 -21.411  1.00138.99      A16S
ATOM  30124  P   U  A1425     148.369  57.980 -22.291  1.00102.07      A16S
ATOM  30125  O1P U  A1425     146.976  58.203 -21.820  1.00133.00      A16S
ATOM  30126  O2P U  A1425     148.925  56.599 -22.313  1.00133.00      A16S
ATOM  30127  O5* U  A1425     148.504  58.590 -23.755  1.00102.07      A16S
ATOM  30128  C5* U  A1425     148.257  59.985 -23.988  1.00102.07      A16S
ATOM  30129  C4* U  A1425     148.643  60.355 -25.392  1.00102.07      A16S
ATOM  30130  O4* U  A1425     150.075  60.216 -25.564  1.00102.07      A16S
ATOM  30131  C1* U  A1425     150.355  59.778 -26.882  1.00102.07      A16S
ATOM  30132  N1  U  A1425     151.125  58.524 -26.820  1.00133.00      A16S
ATOM  30133  C6  U  A1425     151.080  57.692 -25.724  1.00133.00      A16S
ATOM  30134  C2  U  A1425     151.903  58.205 -27.917  1.00133.00      A16S
ATOM  30135  O2  U  A1425     151.972  58.912 -28.900  1.00133.00      A16S
ATOM  30136  N3  U  A1425     152.597  57.027 -27.819  1.00133.00      A16S
ATOM  30137  C4  U  A1425     152.596  56.151 -26.759  1.00133.00      A16S
ATOM  30138  O4  U  A1425     153.267  55.120 -26.828  1.00133.00      A16S
ATOM  30139  C5  U  A1425     151.771  56.548 -25.657  1.00133.00      A16S
ATOM  30140  C2* U  A1425     149.026  59.635 -27.625  1.00102.07      A16S
ATOM  30141  O2* U  A1425     148.808  60.791 -28.405  1.00102.07      A16S
ATOM  30142  C3* U  A1425     148.041  59.477 -26.470  1.00102.07      A16S
ATOM  30143  O3* U  A1425     146.723  59.900 -26.784  1.00102.07      A16S
ATOM  30144  P   C  A1426     145.612  58.812 -27.189  1.00 98.65      A16S
ATOM  30145  O1P C  A1426     144.299  59.375 -26.791  1.00 90.32      A16S
ATOM  30146  O2P C  A1426     146.021  57.477 -26.677  1.00 90.32      A16S
ATOM  30147  O5* C  A1426     145.679  58.793 -28.780  1.00 98.65      A16S
ATOM  30148  C5* C  A1426     145.472  60.002 -29.525  1.00 98.65      A16S
ATOM  30149  C4* C  A1426     146.163  59.926 -30.863  1.00 98.65      A16S
ATOM  30150  O4* C  A1426     147.600  59.830 -30.684  1.00 98.65      A16S
ATOM  30151  C1* C  A1426     148.159  59.066 -31.741  1.00 98.65      A16S
ATOM  30152  N1  C  A1426     148.905  57.926 -31.173  1.00 90.32      A16S
ATOM  30153  C6  C  A1426     148.648  57.470 -29.908  1.00 90.32      A16S
ATOM  30154  C2  C  A1426     149.885  57.302 -31.962  1.00 90.32      A16S
ATOM  30155  O2  C  A1426     150.121  57.745 -33.100  1.00 90.32      A16S
ATOM  30156  N3  C  A1426     150.552  56.237 -31.465  1.00 90.32      A16S
ATOM  30157  C4  C  A1426     150.286  55.797 -30.234  1.00 90.32      A16S
ATOM  30158  N4  C  A1426     150.965  54.738 -29.793  1.00 90.32      A16S
ATOM  30159  C5  C  A1426     149.309  56.421 -29.403  1.00 90.32      A16S
ATOM  30160  C2* C  A1426     147.017  58.626 -32.663  1.00 98.65      A16S
ATOM  30161  O2* C  A1426     146.957  59.491 -33.782  1.00 98.65      A16S
ATOM  30162  C3* C  A1426     145.807  58.738 -31.739  1.00 98.65      A16S
ATOM  30163  O3* C  A1426     144.593  58.961 -32.448  1.00 98.65      A16S
ATOM  30164  P   U  A1427     143.647  57.714 -32.817  1.00111.24      A16S
ATOM  30165  O1P U  A1427     142.355  58.258 -33.322  1.00103.05      A16S
ATOM  30166  O2P U  A1427     143.647  56.775 -31.664  1.00103.05      A16S
ATOM  30167  O5* U  A1427     144.416  57.006 -34.018  1.00111.24      A16S
ATOM  30168  C5* U  A1427     144.649  57.698 -35.257  1.00111.24      A16S
ATOM  30169  C4* U  A1427     145.413  56.812 -36.212  1.00111.24      A16S
ATOM  30170  O4* U  A1427     146.809  56.726 -35.825  1.00111.24      A16S
ATOM  30171  C1* U  A1427     147.313  55.438 -36.151  1.00111.24      A16S
ATOM  30172  N1  U  A1427     147.855  54.809 -34.935  1.00103.05      A16S
ATOM  30173  C6  U  A1427     147.485  55.227 -33.679  1.00103.05      A16S
ATOM  30174  C2  U  A1427     148.760  53.774 -35.096  1.00103.05      A16S
ATOM  30175  O2  U  A1427     149.113  53.366 -36.187  1.00103.05      A16S
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ATOM  30176  N3  U   A1427     149.235  53.231 -33.931  1.00103.05      A16S
ATOM  30177  C4  U   A1427     148.910  53.604 -32.648  1.00103.05      A16S
ATOM  30178  O4  U   A1427     149.444  53.030 -31.694  1.00103.05      A16S
ATOM  30179  C5  U   A1427     147.967  54.674 -32.562  1.00103.05      A16S
ATOM  30180  C2* U   A1427     146.179  54.632 -36.788  1.00111.24      A16S
ATOM  30181  O2* U   A1427     146.315  54.657 -38.194  1.00111.24      A16S
ATOM  30182  C3* U   A1427     144.946  55.369 -36.275  1.00111.24      A16S
ATOM  30183  O3* U   A1427     143.813  55.212 -37.115  1.00111.24      A16S
ATOM  30184  P   A   A1428     142.842  53.950 -36.903  1.00124.90      A16S
ATOM  30185  O1P A   A1428     141.612  54.187 -37.703  1.00113.98      A16S
ATOM  30186  O2P A   A1428     142.727  53.688 -35.444  1.00113.98      A16S
ATOM  30187  O5* A   A1428     143.657  52.746 -37.555  1.00124.90      A16S
ATOM  30188  C5* A   A1428     144.049  52.780 -38.942  1.00124.90      A16S
ATOM  30189  C4* A   A1428     144.926  51.594 -39.261  1.00124.90      A16S
ATOM  30190  O4* A   A1428     146.228  51.758 -38.648  1.00124.90      A16S
ATOM  30191  C1* A   A1428     146.708  50.502 -38.196  1.00124.90      A16S
ATOM  30192  N9  A   A1428     146.934  50.591 -36.751  1.00113.98      A16S
ATOM  30193  C4  A   A1428     147.758  49.785 -36.001  1.00113.98      A16S
ATOM  30194  N3  A   A1428     148.511  48.760 -36.433  1.00113.98      A16S
ATOM  30195  C2  A   A1428     149.176  48.208 -35.421  1.00113.98      A16S
ATOM  30196  N1  A   A1428     149.175  48.540 -34.126  1.00113.98      A16S
ATOM  30197  C6  A   A1428     148.408  49.575 -33.726  1.00113.98      A16S
ATOM  30198  N6  A   A1428     148.407  49.907 -32.433  1.00113.98      A16S
ATOM  30199  C5  A   A1428     147.653  50.244 -34.701  1.00113.98      A16S
ATOM  30200  N7  A   A1428     146.781  51.320 -34.628  1.00113.98      A16S
ATOM  30201  C8  A   A1428     146.381  51.484 -35.865  1.00113.98      A16S
ATOM  30202  C2* A   A1428     145.680  49.438 -38.587  1.00124.90      A16S
ATOM  30203  O2* A   A1428     146.069  48.814 -39.794  1.00124.90      A16S
ATOM  30204  C3* A   A1428     144.412  50.271 -38.725  1.00124.90      A16S
ATOM  30205  O3* A   A1428     143.444  49.700 -39.590  1.00124.90      A16S
ATOM  30206  P   C   A1429     142.174  48.942 -38.962  1.00 97.68      A16S
ATOM  30207  O1P C   A1429     141.206  48.717 -40.068  1.00107.42      A16S
ATOM  30208  O2P C   A1429     141.739  49.686 -37.747  1.00107.42      A16S
ATOM  30209  O5* C   A1429     142.772  47.531 -38.517  1.00 97.68      A16S
ATOM  30210  C5* C   A1429     143.394  46.676 -39.491  1.00 97.68      A16S
ATOM  30211  C4* C   A1429     144.226  45.613 -38.820  1.00 97.68      A16S
ATOM  30212  O4* C   A1429     145.361  46.204 -38.144  1.00 97.68      A16S
ATOM  30213  C1* C   A1429     145.709  45.410 -37.022  1.00 97.68      A16S
ATOM  30214  N1  C   A1429     145.670  46.245 -35.807  1.00107.42      A16S
ATOM  30215  C6  C   A1429     144.830  47.320 -35.718  1.00107.42      A16S
ATOM  30216  C2  C   A1429     146.507  45.911 -34.727  1.00107.42      A16S
ATOM  30217  O2  C   A1429     147.267  44.935 -34.826  1.00107.42      A16S
ATOM  30218  N3  C   A1429     146.462  46.658 -33.605  1.00107.42      A16S
ATOM  30219  C4  C   A1429     145.632  47.699 -33.530  1.00107.42      A16S
ATOM  30220  N4  C   A1429     145.617  48.402 -32.398  1.00107.42      A16S
ATOM  30221  C5  C   A1429     144.779  48.065 -34.610  1.00107.42      A16S
ATOM  30222  C2* C   A1429     144.723  44.244 -36.951  1.00 97.68      A16S
ATOM  30223  O2* C   A1429     145.308  43.100 -37.540  1.00 97.68      A16S
ATOM  30224  C3* C   A1429     143.545  44.786 -37.749  1.00 97.68      A16S
ATOM  30225  O3* C   A1429     142.776  43.743 -38.314  1.00 97.68      A16S
ATOM  30226  P   C   A1430     141.536  43.141 -37.490  1.00 83.61      A16S
ATOM  30227  O1P C   A1430     140.838  42.187 -38.398  1.00 87.10      A16S
ATOM  30228  O2P C   A1430     140.781  44.289 -36.913  1.00 87.10      A16S
ATOM  30229  O5* C   A1430     142.229  42.303 -36.318  1.00 83.61      A16S
ATOM  30230  C5* C   A1430     143.054  41.168 -36.630  1.00 83.61      A16S
ATOM  30231  C4* C   A1430     143.806  40.697 -35.412  1.00 83.61      A16S
ATOM  30232  O4* C   A1430     144.730  41.719 -34.968  1.00 83.61      A16S
ATOM  30233  C1* C   A1430     144.863  41.661 -33.554  1.00 83.61      A16S
ATOM  30234  N1  C   A1430     144.437  42.949 -32.980  1.00 87.10      A16S
ATOM  30235  C6  C   A1430     143.681  43.827 -33.707  1.00 87.10      A16S
ATOM  30236  C2  C   A1430     144.822  43.267 -31.672  1.00 87.10      A16S
ATOM  30237  O2  C   A1430     145.481  42.446 -31.023  1.00 87.10      A16S
ATOM  30238  N3  C   A1430     144.461  44.456 -31.150  1.00 87.10      A16S
ATOM  30239  C4  C   A1430     143.733  45.309 -31.874  1.00 87.10      A16S
ATOM  30240  N4  C   A1430     143.405  46.478 -31.324  1.00 87.10      A16S
ATOM  30241  C5  C   A1430     143.310  45.004 -33.198  1.00 87.10      A16S
ATOM  30242  C2* C   A1430     144.001  40.505 -33.054  1.00 83.61      A16S
ATOM  30243  O2* C   A1430     144.807  39.351 -32.894  1.00 83.61      A16S
ATOM  30244  C3* C   A1430     142.982  40.379 -34.178  1.00 83.61      A16S
ATOM  30245  O3* C   A1430     142.422  39.084 -34.217  1.00 83.61      A16S
ATOM  30246  P   C   A1431     141.139  38.762 -33.313  1.00 71.39      A16S
ATOM  30247  O1P C   A1431     140.737  37.351 -33.548  1.00 73.06      A16S
ATOM  30248  O2P C   A1431     140.152  39.852 -33.545  1.00 73.06      A16S
ATOM  30249  O5* C   A1431     141.704  38.843 -31.828  1.00 71.39      A16S
ATOM  30250  C5* C   A1431     142.502  37.774 -31.303  1.00 71.39      A16S
ATOM  30251  C4* C   A1431     142.625  37.888 -29.804  1.00 71.39      A16S
ATOM  30252  O4* C   A1431     143.468  39.019 -29.468  1.00 71.39      A16S
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ATOM  30253  C1* C   A1431     143.018  39.603 -28.257  1.00 71.39      A16S
ATOM  30254  N1  C   A1431     142.516  40.961 -28.542  1.00 73.06      A16S
ATOM  30255  C6  C   A1431     141.954  41.268 -29.750  1.00 73.06      A16S
ATOM  30256  C2  C   A1431     142.606  41.931 -27.543  1.00 73.06      A16S
ATOM  30257  O2  C   A1431     143.134  41.631 -26.459  1.00 73.06      A16S
ATOM  30258  N3  C   A1431     142.118  43.170 -27.778  1.00 73.06      A16S
ATOM  30259  C4  C   A1431     141.562  43.455 -28.956  1.00 73.06      A16S
ATOM  30260  N4  C   A1431     141.088  44.687 -29.142  1.00 73.06      A16S
ATOM  30261  C5  C   A1431     141.466  42.489 -29.995  1.00 73.06      A16S
ATOM  30262  C2* C   A1431     141.882  38.731 -27.734  1.00 71.39      A16S
ATOM  30263  O2* C   A1431     142.396  37.727 -26.880  1.00 71.39      A16S
ATOM  30264  C3* C   A1431     141.347  38.141 -29.023  1.00 71.39      A16S
ATOM  30265  O3* C   A1431     140.574  36.990 -28.773  1.00 71.39      A16S
ATOM  30266  P   G   A1432     138.993  37.149 -28.533  1.00 75.91      A16S
ATOM  30267  O1P G   A1432     138.521  35.816 -28.104  1.00 53.30      A16S
ATOM  30268  O2P G   A1432     138.349  37.825 -29.687  1.00 53.30      A16S
ATOM  30269  O5* G   A1432     138.878  38.139 -27.296  1.00 75.91      A16S
ATOM  30270  C5* G   A1432     139.320  37.740 -25.995  1.00 75.91      A16S
ATOM  30271  C4* G   A1432     139.055  38.837 -24.998  1.00 75.91      A16S
ATOM  30272  O4* G   A1432     139.775  40.028 -25.404  1.00 75.91      A16S
ATOM  30273  C1* G   A1432     139.009  41.176 -25.100  1.00 75.91      A16S
ATOM  30274  N9  G   A1432     138.703  41.844 -26.361  1.00 53.30      A16S
ATOM  30275  C4  G   A1432     138.503  43.187 -26.554  1.00 53.30      A16S
ATOM  30276  N3  G   A1432     138.567  44.145 -25.606  1.00 53.30      A16S
ATOM  30277  C2  G   A1432     138.331  45.353 -26.104  1.00 53.30      A16S
ATOM  30278  N2  G   A1432     138.370  46.425 -25.305  1.00 53.30      A16S
ATOM  30279  N1  G   A1432     138.049  45.600 -27.422  1.00 53.30      A16S
ATOM  30280  C6  G   A1432     137.984  44.633 -28.420  1.00 53.30      A16S
ATOM  30281  O6  G   A1432     137.741  44.970 -29.593  1.00 53.30      A16S
ATOM  30282  C5  G   A1432     138.233  43.326 -27.899  1.00 53.30      A16S
ATOM  30283  N7  G   A1432     138.258  42.093 -28.536  1.00 53.30      A16S
ATOM  30284  C8  G   A1432     138.545  41.248 -27.587  1.00 53.30      A16S
ATOM  30285  C2* G   A1432     137.756  40.709 -24.351  1.00 75.91      A16S
ATOM  30286  O2* G   A1432     137.999  40.741 -22.958  1.00 75.91      A16S
ATOM  30287  C3* G   A1432     137.607  39.281 -24.863  1.00 75.91      A16S
ATOM  30288  O3* G   A1432     136.911  38.412 -23.969  1.00 75.91      A16S
ATOM  30289  P   A   A1433     135.422  38.772 -23.474  1.00 46.48      A16S
ATOM  30290  O1P A   A1433     134.616  37.527 -23.467  1.00 54.01      A16S
ATOM  30291  O2P A   A1433     134.923  39.946 -24.220  1.00 54.01      A16S
ATOM  30292  O5* A   A1433     135.668  39.169 -21.954  1.00 46.48      A16S
ATOM  30293  C5* A   A1433     136.470  38.319 -21.104  1.00 46.48      A16S
ATOM  30294  C4* A   A1433     136.405  38.789 -19.670  1.00 46.48      A16S
ATOM  30295  O4* A   A1433     137.195  39.996 -19.511  1.00 46.48      A16S
ATOM  30296  C1* A   A1433     136.519  40.899 -18.660  1.00 46.48      A16S
ATOM  30297  N9  A   A1433     136.175  42.079 -19.457  1.00 54.01      A16S
ATOM  30298  C4  A   A1433     135.902  43.346 -18.999  1.00 54.01      A16S
ATOM  30299  N3  A   A1433     135.881  43.770 -17.724  1.00 54.01      A16S
ATOM  30300  C2  A   A1433     135.595  45.063 -17.669  1.00 54.01      A16S
ATOM  30301  N1  A   A1433     135.345  45.919 -18.666  1.00 54.01      A16S
ATOM  30302  C6  A   A1433     135.370  45.457 -19.931  1.00 54.01      A16S
ATOM  30303  N6  A   A1433     135.119  46.303 -20.927  1.00 54.01      A16S
ATOM  30304  C5  A   A1433     135.661  44.106 -20.124  1.00 54.01      A16S
ATOM  30305  N7  A   A1433     135.767  43.334 -21.270  1.00 54.01      A16S
ATOM  30306  C8  A   A1433     136.068  42.146 -20.822  1.00 54.01      A16S
ATOM  30307  C2* A   A1433     135.294  40.172 -18.097  1.00 46.48      A16S
ATOM  30308  O2* A   A1433     135.629  39.552 -16.870  1.00 46.48      A16S
ATOM  30309  C3* A   A1433     135.015  39.158 -19.194  1.00 46.48      A16S
ATOM  30310  O3* A   A1433     134.286  38.040 -18.740  1.00 46.48      A16S
ATOM  30311  P   A   A1434     132.709  37.990 -19.001  1.00 56.51      A16S
ATOM  30312  O1P A   A1434     132.168  36.712 -18.496  1.00 59.62      A16S
ATOM  30313  O2P A   A1434     132.474  38.382 -20.413  1.00 59.62      A16S
ATOM  30314  O5* A   A1434     132.125  39.133 -18.065  1.00 56.51      A16S
ATOM  30315  C5* A   A1434     132.241  39.039 -16.633  1.00 56.51      A16S
ATOM  30316  C4* A   A1434     131.814  40.334 -15.991  1.00 56.51      A16S
ATOM  30317  O4* A   A1434     132.715  41.389 -16.410  1.00 56.51      A16S
ATOM  30318  C1* A   A1434     131.981  42.583 -16.608  1.00 56.51      A16S
ATOM  30319  N9  A   A1434     132.119  42.991 -18.007  1.00 59.62      A16S
ATOM  30320  C4  A   A1434     132.047  44.280 -18.473  1.00 59.62      A16S
ATOM  30321  N3  A   A1434     131.880  45.397 -17.751  1.00 59.62      A16S
ATOM  30322  C2  A   A1434     131.818  46.461 -18.542  1.00 59.62      A16S
ATOM  30323  N1  A   A1434     131.897  46.532 -19.871  1.00 59.62      A16S
ATOM  30324  C6  A   A1434     132.070  45.393 -20.567  1.00 59.62      A16S
ATOM  30325  N6  A   A1434     132.150  45.469 -21.894  1.00 59.62      A16S
ATOM  30326  C5  A   A1434     132.154  44.191 -19.843  1.00 59.62      A16S
ATOM  30327  N7  A   A1434     132.323  42.872 -20.236  1.00 59.62      A16S
ATOM  30328  C8  A   A1434     132.302  42.204 -19.112  1.00 59.62      A16S
ATOM  30329  C2* A   A1434     130.520  42.310 -16.227  1.00 56.51      A16S
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ATOM  30330  O2* A   A1434     130.272  42.693 -14.891  1.00 56.51      A16S
ATOM  30331  C3* A   A1434     130.431  40.807 -16.401  1.00 56.51      A16S
ATOM  30332  O3* A   A1434     129.430  40.253 -15.573  1.00 56.51      A16S
ATOM  30333  P    G   A1435     128.055  39.759 -16.228  1.00 44.47      A16S
ATOM  30334  O1P G   A1435     127.214  39.146 -15.160  1.00 49.15      A16S
ATOM  30335  O2P G   A1435     128.402  38.971 -17.442  1.00 49.15      A16S
ATOM  30336  O5* G   A1435     127.335  41.102 -16.697  1.00 44.47      A16S
ATOM  30337  C5* G   A1435     126.938  42.108 -15.738  1.00 44.47      A16S
ATOM  30338  C4* G   A1435     126.647  43.415 -16.433  1.00 44.47      A16S
ATOM  30339  O4* G   A1435     127.843  43.889 -17.101  1.00 44.47      A16S
ATOM  30340  C1* G   A1435     127.494  44.516 -18.323  1.00 44.47      A16S
ATOM  30341  N9   G   A1435     128.126  43.778 -19.417  1.00 49.15      A16S
ATOM  30342  C4   G   A1435     128.470  44.273 -20.650  1.00 49.15      A16S
ATOM  30343  N3   G   A1435     128.297  45.538 -21.070  1.00 49.15      A16S
ATOM  30344  C2   G   A1435     128.707  45.706 -22.315  1.00 49.15      A16S
ATOM  30345  N2   G   A1435     128.592  46.903 -22.903  1.00 49.15      A16S
ATOM  30346  N1   G   A1435     129.257  44.715 -23.082  1.00 49.15      A16S
ATOM  30347  C6   G   A1435     129.451  43.406 -22.673  1.00 49.15      A16S
ATOM  30348  O6   G   A1435     129.963  42.591 -23.447  1.00 49.15      A16S
ATOM  30349  C5   G   A1435     129.001  43.206 -21.340  1.00 49.15      A16S
ATOM  30350  N7   G   A1435     129.000  42.063 -20.555  1.00 49.15      A16S
ATOM  30351  C8   G   A1435     128.478  42.451 -19.424  1.00 49.15      A16S
ATOM  30352  C2* G   A1435     125.966  44.517 -18.420  1.00 44.47      A16S
ATOM  30353  O2* G   A1435     125.462  45.755 -17.963  1.00 44.47      A16S
ATOM  30354  C3* G   A1435     125.592  43.347 -17.519  1.00 44.47      A16S
ATOM  30355  O3* G   A1435     124.300  43.498 -16.954  1.00 44.47      A16S
ATOM  30356  P    U   A1436     123.040  42.748 -17.615  1.00 49.83      A16S
ATOM  30357  O1P U   A1436     122.019  42.566 -16.540  1.00 54.79      A16S
ATOM  30358  O2P U   A1436     123.521  41.568 -18.385  1.00 54.79      A16S
ATOM  30359  O5* U   A1436     122.461  43.813 -18.642  1.00 49.83      A16S
ATOM  30360  C5* U   A1436     122.077  45.117 -18.193  1.00 49.83      A16S
ATOM  30361  C4* U   A1436     122.078  46.078 -19.347  1.00 49.83      A16S
ATOM  30362  O4* U   A1436     123.434  46.239 -19.834  1.00 49.83      A16S
ATOM  30363  C1* U   A1436     123.411  46.444 -21.239  1.00 49.83      A16S
ATOM  30364  N1   U   A1436     124.292  45.444 -21.884  1.00 54.79      A16S
ATOM  30365  C6   U   A1436     124.576  44.245 -21.271  1.00 54.79      A16S
ATOM  30366  C2   U   A1436     124.840  45.739 -23.130  1.00 54.79      A16S
ATOM  30367  O2   U   A1436     124.630  46.774 -23.719  1.00 54.79      A16S
ATOM  30368  N3   U   A1436     125.648  44.767 -23.658  1.00 54.79      A16S
ATOM  30369  C4   U   A1436     125.962  43.554 -23.094  1.00 54.79      A16S
ATOM  30370  O4   U   A1436     126.657  42.755 -23.722  1.00 54.79      A16S
ATOM  30371  C5   U   A1436     125.372  43.320 -21.817  1.00 54.79      A16S
ATOM  30372  C2* U   A1436     121.938  46.447 -21.683  1.00 49.83      A16S
ATOM  30373  O2* U   A1436     121.467  47.779 -21.684  1.00 49.83      A16S
ATOM  30374  C3* U   A1436     121.263  45.664 -20.565  1.00 49.83      A16S
ATOM  30375  O3* U   A1436     119.898  46.048 -20.410  1.00 49.83      A16S
ATOM  30376  P    C   A1437     118.735  45.233 -21.174  1.00 46.76      A16S
ATOM  30377  O1P C   A1437     117.472  45.989 -20.992  1.00 73.94      A16S
ATOM  30378  O2P C   A1437     118.790  43.809 -20.788  1.00 73.94      A16S
ATOM  30379  O5* C   A1437     119.140  45.361 -22.706  1.00 46.76      A16S
ATOM  30380  C5* C   A1437     119.026  46.630 -23.371  1.00 46.76      A16S
ATOM  30381  C4* C   A1437     119.585  46.553 -24.768  1.00 46.76      A16S
ATOM  30382  O4* C   A1437     121.011  46.310 -24.710  1.00 46.76      A16S
ATOM  30383  C1* C   A1437     121.405  45.561 -25.841  1.00 46.76      A16S
ATOM  30384  N1   C   A1437     122.103  44.345 -25.397  1.00 73.94      A16S
ATOM  30385  C6   C   A1437     121.875  43.801 -24.164  1.00 73.94      A16S
ATOM  30386  C2   C   A1437     123.009  43.751 -26.268  1.00 73.94      A16S
ATOM  30387  O2   C   A1437     123.195  44.270 -27.378  1.00 73.94      A16S
ATOM  30388  N3   C   A1437     123.660  42.632 -25.886  1.00 73.94      A16S
ATOM  30389  C4   C   A1437     123.435  42.108 -24.684  1.00 73.94      A16S
ATOM  30390  N4   C   A1437     124.105  41.009 -24.350  1.00 73.94      A16S
ATOM  30391  C5   C   A1437     122.513  42.691 -23.772  1.00 73.94      A16S
ATOM  30392  C2* C   A1437     120.160  45.279 -26.682  1.00 46.76      A16S
ATOM  30393  O2* C   A1437     120.083  46.246 -27.708  1.00 46.76      A16S
ATOM  30394  C3* C   A1437     119.045  45.449 -25.658  1.00 46.76      A16S
ATOM  30395  O3* C   A1437     117.809  45.801 -26.264  1.00 46.76      A16S
ATOM  30396  P    G   A1438     116.878  44.648 -26.876  1.00 48.27      A16S
ATOM  30397  O1P G   A1438     115.623  45.266 -27.382  1.00 55.22      A16S
ATOM  30398  O2P G   A1438     116.797  43.540 -25.896  1.00 55.22      A16S
ATOM  30399  O5* G   A1438     117.715  44.098 -28.114  1.00 48.27      A16S
ATOM  30400  C5* G   A1438     117.758  44.818 -29.354  1.00 48.27      A16S
ATOM  30401  C4* G   A1438     118.459  44.000 -30.405  1.00 48.27      A16S
ATOM  30402  O4* G   A1438     119.832  43.778 -30.000  1.00 48.27      A16S
ATOM  30403  C1* G   A1438     120.264  42.500 -30.441  1.00 48.27      A16S
ATOM  30404  N9   G   A1438     120.655  41.715 -29.275  1.00 55.22      A16S
ATOM  30405  C4   G   A1438     121.497  40.626 -29.260  1.00 55.22      A16S
ATOM  30406  N3   G   A1438     122.098  40.070 -30.330  1.00 55.22      A16S
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ATOM  30407  C2  G  A1438     122.877  39.054 -29.985  1.00 55.22      A16S
ATOM  30408  N2  G  A1438     123.576  38.398 -30.906  1.00 55.22      A16S
ATOM  30409  N1  G  A1438     123.041  38.607 -28.704  1.00 55.22      A16S
ATOM  30410  C6  G  A1438     122.427  39.151 -27.587  1.00 55.22      A16S
ATOM  30411  O6  G  A1438     122.636  38.658 -26.472  1.00 55.22      A16S
ATOM  30412  C5  G  A1438     121.595  40.259 -27.936  1.00 55.22      A16S
ATOM  30413  N7  G  A1438     120.815  41.085 -27.137  1.00 55.22      A16S
ATOM  30414  C8  G  A1438     120.274  41.927 -27.973  1.00 55.22      A16S
ATOM  30415  C2* G  A1438     119.111  41.872 -31.218  1.00 48.27      A16S
ATOM  30416  O2* G  A1438     119.245  42.167 -32.596  1.00 48.27      A16S
ATOM  30417  C3* G  A1438     117.917  42.600 -30.629  1.00 48.27      A16S
ATOM  30418  O3* G  A1438     116.817  42.552 -31.513  1.00 48.27      A16S
ATOM  30419  P   C  A1439     115.733  41.387 -31.335  1.00 45.93      A16S
ATOM  30420  O1P C  A1439     114.589  41.724 -32.218  1.00 69.75      A16S
ATOM  30421  O2P C  A1439     115.507  41.183 -29.882  1.00 69.75      A16S
ATOM  30422  O5* C  A1439     116.472  40.085 -31.862  1.00 45.93      A16S
ATOM  30423  C5* C  A1439     116.811  39.944 -33.243  1.00 45.93      A16S
ATOM  30424  C4* C  A1439     117.608  38.685 -33.452  1.00 45.93      A16S
ATOM  30425  O4* C  A1439     118.876  38.800 -32.757  1.00 45.93      A16S
ATOM  30426  C1* C  A1439     119.264  37.534 -32.258  1.00 45.93      A16S
ATOM  30427  N1  C  A1439     119.401  37.607 -30.793  1.00 69.75      A16S
ATOM  30428  C6  C  A1439     118.690  38.510 -30.051  1.00 69.75      A16S
ATOM  30429  C2  C  A1439     120.273  36.716 -30.169  1.00 69.75      A16S
ATOM  30430  O2  C  A1439     120.910  35.914 -30.871  1.00 69.75      A16S
ATOM  30431  N3  C  A1439     120.402  36.748 -28.822  1.00 69.75      A16S
ATOM  30432  C4  C  A1439     119.703  37.629 -28.106  1.00 69.75      A16S
ATOM  30433  N4  C  A1439     119.869  37.629 -26.779  1.00 69.75      A16S
ATOM  30434  C5  C  A1439     118.808  38.554 -28.719  1.00 69.75      A16S
ATOM  30435  C2* C  A1439     118.200  36.526 -32.681  1.00 45.93      A16S
ATOM  30436  O2* C  A1439     118.605  35.910 -33.887  1.00 45.93      A16S
ATOM  30437  C3* C  A1439     116.992  37.426 -32.876  1.00 45.93      A16S
ATOM  30438  O3* C  A1439     116.026  36.848 -33.726  1.00 45.93      A16S
ATOM  30439  P   C  A1440     114.856  35.956 -33.081  1.00 60.42      A16S
ATOM  30440  O1P C  A1440     113.834  35.753 -34.142  1.00 50.25      A16S
ATOM  30441  O2P C  A1440     114.455  36.581 -31.796  1.00 50.25      A16S
ATOM  30442  O5* C  A1440     115.570  34.571 -32.751  1.00 60.42      A16S
ATOM  30443  C5* C  A1440     116.190  33.813 -33.794  1.00 60.42      A16S
ATOM  30444  C4* C  A1440     116.998  32.680 -33.217  1.00 60.42      A16S
ATOM  30445  O4* C  A1440     118.072  33.205 -32.401  1.00 60.42      A16S
ATOM  30446  C1* C  A1440     118.304  32.341 -31.304  1.00 60.42      A16S
ATOM  30447  N1  C  A1440     118.089  33.100 -30.062  1.00 50.25      A16S
ATOM  30448  C6  C  A1440     117.478  34.321 -30.090  1.00 50.25      A16S
ATOM  30449  C2  C  A1440     118.530  32.562 -28.851  1.00 50.25      A16S
ATOM  30450  O2  C  A1440     119.057  31.446 -28.846  1.00 50.25      A16S
ATOM  30451  N3  C  A1440     118.368  33.274 -27.714  1.00 50.25      A16S
ATOM  30452  C4  C  A1440     117.789  34.474 -27.758  1.00 50.25      A16S
ATOM  30453  N4  C  A1440     117.666  35.155 -26.621  1.00 50.25      A16S
ATOM  30454  C5  C  A1440     117.313  35.035 -28.973  1.00 50.25      A16S
ATOM  30455  C2* C  A1440     117.360  31.149 -31.448  1.00 60.42      A16S
ATOM  30456  O2* C  A1440     118.022  30.106 -32.135  1.00 60.42      A16S
ATOM  30457  C3* C  A1440     116.247  31.742 -32.293  1.00 60.42      A16S
ATOM  30458  O3* C  A1440     115.543  30.741 -33.007  1.00 60.42      A16S
ATOM  30459  P   G  A1441     114.217  30.109 -32.363  1.00 62.23      A16S
ATOM  30460  O1P G  A1441     113.850  28.917 -33.175  1.00 60.01      A16S
ATOM  30461  O2P G  A1441     113.230  31.219 -32.191  1.00 60.01      A16S
ATOM  30462  O5* G  A1441     114.705  29.627 -30.923  1.00 62.23      A16S
ATOM  30463  C5* G  A1441     115.658  28.558 -30.782  1.00 62.23      A16S
ATOM  30464  C4* G  A1441     115.894  28.263 -29.323  1.00 62.23      A16S
ATOM  30465  O4* G  A1441     116.662  29.327 -28.715  1.00 62.23      A16S
ATOM  30466  C1* G  A1441     116.186  29.573 -27.401  1.00 62.23      A16S
ATOM  30467  N9  G  A1441     115.612  30.913 -27.396  1.00 60.01      A16S
ATOM  30468  C4  G  A1441     115.578  31.810 -26.355  1.00 60.01      A16S
ATOM  30469  N3  G  A1441     116.097  31.626 -25.127  1.00 60.01      A16S
ATOM  30470  C2  G  A1441     115.887  32.668 -24.350  1.00 60.01      A16S
ATOM  30471  N2  G  A1441     116.335  32.663 -23.096  1.00 60.01      A16S
ATOM  30472  N1  G  A1441     115.219  33.798 -24.744  1.00 60.01      A16S
ATOM  30473  C6  G  A1441     114.678  34.005 -26.009  1.00 60.01      A16S
ATOM  30474  O6  G  A1441     114.080  35.060 -26.273  1.00 60.01      A16S
ATOM  30475  C5  G  A1441     114.902  32.907 -26.847  1.00 60.01      A16S
ATOM  30476  N7  G  A1441     114.538  32.713 -28.169  1.00 60.01      A16S
ATOM  30477  C8  G  A1441     114.978  31.521 -28.453  1.00 60.01      A16S
ATOM  30478  C2* G  A1441     115.125  28.517 -27.089  1.00 62.23      A16S
ATOM  30479  O2* G  A1441     115.724  27.430 -26.420  1.00 62.23      A16S
ATOM  30480  C3* G  A1441     114.636  28.156 -28.485  1.00 62.23      A16S
ATOM  30481  O3* G  A1441     114.109  26.852 -28.559  1.00 62.23      A16S
ATOM  30482  P   G  A1442     112.546  26.645 -28.830  1.00 89.31      A16S
ATOM  30483  O1P G  A1442     112.123  27.590 -29.898  1.00 84.57      A16S
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ATOM  30484  O2P G   A1442     111.855  26.669 -27.518  1.00 84.57      A16S
ATOM  30485  O5* G   A1442     112.501  25.149 -29.373  1.00 89.31      A16S
ATOM  30486  C5* G   A1442     112.243  24.853 -30.759  1.00 89.31      A16S
ATOM  30487  C4* G   A1442     113.378  24.040 -31.354  1.00 89.31      A16S
ATOM  30488  O4* G   A1442     114.454  24.908 -31.773  1.00 89.31      A16S
ATOM  30489  C1* G   A1442     115.662  24.176 -31.784  1.00 89.31      A16S
ATOM  30490  N9   G   A1442     116.727  25.018 -31.245  1.00 84.57      A16S
ATOM  30491  C4   G   A1442     117.094  25.189 -29.925  1.00 84.57      A16S
ATOM  30492  N3   G   A1442     116.553  24.565 -28.855  1.00 84.57      A16S
ATOM  30493  C2   G   A1442     117.116  24.952 -27.717  1.00 84.57      A16S
ATOM  30494  N2   G   A1442     116.716  24.420 -26.554  1.00 84.57      A16S
ATOM  30495  N1   G   A1442     118.116  25.888 -27.637  1.00 84.57      A16S
ATOM  30496  C6   G   A1442     118.681  26.551 -28.722  1.00 84.57      A16S
ATOM  30497  O6   G   A1442     119.568  27.395 -28.538  1.00 84.57      A16S
ATOM  30498  C5   G   A1442     118.103  26.131 -29.950  1.00 84.57      A16S
ATOM  30499  N7   G   A1442     118.380  26.524 -31.251  1.00 84.57      A16S
ATOM  30500  C8   G   A1442     117.549  25.835 -31.982  1.00 84.57      A16S
ATOM  30501  C2* G   A1442     115.409  22.801 -31.157  1.00 89.31      A16S
ATOM  30502  O2* G   A1442     115.356  21.863 -32.213  1.00 89.31      A16S
ATOM  30503  C3* G   A1442     114.049  22.991 -30.476  1.00 89.31      A16S
ATOM  30504  O3* G   A1442     113.297  21.774 -30.481  1.00 89.31      A16S
ATOM  30505  P    G   A1443     113.140  20.913 -29.129  1.00117.48      A16S
ATOM  30506  O1P G   A1443     111.803  21.207 -28.552  1.00107.26      A16S
ATOM  30507  O2P G   A1443     114.357  21.091 -28.290  1.00107.26      A16S
ATOM  30508  O5* G   A1443     113.081  19.416 -29.666  1.00117.48      A16S
ATOM  30509  C5* G   A1443     113.856  18.368 -29.058  1.00117.48      A16S
ATOM  30510  C4* G   A1443     113.725  17.100 -29.863  1.00117.48      A16S
ATOM  30511  O4* G   A1443     112.331  16.724 -29.877  1.00117.48      A16S
ATOM  30512  C1* G   A1443     112.017  16.115 -31.106  1.00117.48      A16S
ATOM  30513  N9   G   A1443     110.751  16.662 -31.581  1.00107.26      A16S
ATOM  30514  C4   G   A1443     109.614  15.939 -31.831  1.00107.26      A16S
ATOM  30515  N3   G   A1443     109.486  14.602 -31.703  1.00107.26      A16S
ATOM  30516  C2   G   A1443     108.259  14.194 -31.988  1.00107.26      A16S
ATOM  30517  N2   G   A1443     107.946  12.891 -31.886  1.00107.26      A16S
ATOM  30518  N1   G   A1443     107.243  15.032 -32.386  1.00107.26      A16S
ATOM  30519  C6   G   A1443     107.352  16.412 -32.528  1.00107.26      A16S
ATOM  30520  O6   G   A1443     106.369  17.073 -32.892  1.00107.26      A16S
ATOM  30521  C5   G   A1443     108.664  16.866 -32.210  1.00107.26      A16S
ATOM  30522  N7   G   A1443     109.198  18.148 -32.207  1.00107.26      A16S
ATOM  30523  C8   G   A1443     110.439  17.978 -31.835  1.00107.26      A16S
ATOM  30524  C2* G   A1443     113.237  16.185 -32.029  1.00117.48      A16S
ATOM  30525  O2* G   A1443     113.791  14.887 -32.097  1.00117.48      A16S
ATOM  30526  C3* G   A1443     114.133  17.217 -31.327  1.00117.48      A16S
ATOM  30527  O3* G   A1443     115.524  16.867 -31.456  1.00117.48      A16S
ATOM  30528  P    A   A1446     116.625  17.981 -31.849  1.00128.60      A16S
ATOM  30529  O1P A   A1446     115.925  19.252 -32.170  1.00162.99      A16S
ATOM  30530  O2P A   A1446     117.562  17.391 -32.841  1.00162.99      A16S
ATOM  30531  O5* A   A1446     117.448  18.202 -30.506  1.00128.60      A16S
ATOM  30532  C5* A   A1446     116.838  18.832 -29.378  1.00128.60      A16S
ATOM  30533  C4* A   A1446     117.673  18.619 -28.149  1.00128.60      A16S
ATOM  30534  O4* A   A1446     118.971  19.222 -28.344  1.00128.60      A16S
ATOM  30535  C1* A   A1446     119.439  19.742 -27.114  1.00128.60      A16S
ATOM  30536  N9   A   A1446     119.896  21.120 -27.317  1.00162.99      A16S
ATOM  30537  C4   A   A1446     119.813  21.867 -28.470  1.00162.99      A16S
ATOM  30538  N3   A   A1446     119.236  21.516 -29.633  1.00162.99      A16S
ATOM  30539  C2   A   A1446     119.393  22.473 -30.542  1.00162.99      A16S
ATOM  30540  N1   A   A1446     120.021  23.649 -30.432  1.00162.99      A16S
ATOM  30541  C6   A   A1446     120.594  23.969 -29.252  1.00162.99      A16S
ATOM  30542  N6   A   A1446     121.244  25.130 -29.148  1.00162.99      A16S
ATOM  30543  C5   A   A1446     120.482  23.048 -28.202  1.00162.99      A16S
ATOM  30544  N7   A   A1446     120.933  23.071 -26.889  1.00162.99      A16S
ATOM  30545  C8   A   A1446     120.552  21.915 -26.406  1.00162.99      A16S
ATOM  30546  C2* A   A1446     118.365  19.516 -26.047  1.00128.60      A16S
ATOM  30547  O2* A   A1446     118.717  18.390 -25.265  1.00128.60      A16S
ATOM  30548  C3* A   A1446     117.123  19.273 -26.896  1.00128.60      A16S
ATOM  30549  O3* A   A1446     116.225  18.379 -26.257  1.00128.60      A16S
ATOM  30550  P    G   A1447     115.240  18.922 -25.114  1.00 70.42      A16S
ATOM  30551  O1P G   A1447     114.038  18.044 -25.099  1.00 68.29      A16S
ATOM  30552  O2P G   A1447     115.070  20.395 -25.314  1.00 68.29      A16S
ATOM  30553  O5* G   A1447     116.041  18.675 -23.753  1.00 70.42      A16S
ATOM  30554  C5* G   A1447     115.365  18.774 -22.492  1.00 70.42      A16S
ATOM  30555  C4* G   A1447     116.257  19.400 -21.460  1.00 70.42      A16S
ATOM  30556  O4* G   A1447     117.077  20.426 -22.065  1.00 70.42      A16S
ATOM  30557  C1* G   A1447     117.129  21.564 -21.218  1.00 70.42      A16S
ATOM  30558  N9   G   A1447     116.518  22.689 -21.930  1.00 68.29      A16S
ATOM  30559  C4   G   A1447     116.086  23.881 -21.385  1.00 68.29      A16S
ATOM  30560  N3   G   A1447     116.144  24.227 -20.083  1.00 68.29      A16S
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ATOM  30561  C2  G  A1447     115.656  25.434 -19.873  1.00 68.29      A16S
ATOM  30562  N2  G  A1447     115.620  25.928 -18.635  1.00 68.29      A16S
ATOM  30563  N1  G  A1447     115.163  26.242 -20.860  1.00 68.29      A16S
ATOM  30564  C6  G  A1447     115.096  25.907 -22.207  1.00 68.29      A16S
ATOM  30565  O6  G  A1447     114.637  26.710 -23.020  1.00 68.29      A16S
ATOM  30566  C5  G  A1447     115.601  24.613 -22.447  1.00 68.29      A16S
ATOM  30567  N7  G  A1447     115.714  23.902 -23.633  1.00 68.29      A16S
ATOM  30568  C8  G  A1447     116.262  22.771 -23.281  1.00 68.29      A16S
ATOM  30569  C2* G  A1447     116.400  21.209 -19.921  1.00 70.42      A16S
ATOM  30570  O2* G  A1447     117.319  20.777 -18.946  1.00 70.42      A16S
ATOM  30571  C3* G  A1447     115.457  20.118 -20.397  1.00 70.42      A16S
ATOM  30572  O3* G  A1447     115.007  19.236 -19.394  1.00 70.42      A16S
ATOM  30573  P   C  A1448     113.430  19.023 -19.200  1.00 84.46      A16S
ATOM  30574  O1P C  A1448     113.228  17.702 -18.547  1.00 55.59      A16S
ATOM  30575  O2P C  A1448     112.753  19.324 -20.498  1.00 55.59      A16S
ATOM  30576  O5* C  A1448     113.034  20.160 -18.166  1.00 84.46      A16S
ATOM  30577  C5* C  A1448     113.654  20.210 -16.879  1.00 84.46      A16S
ATOM  30578  C4* C  A1448     113.313  21.501 -16.190  1.00 84.46      A16S
ATOM  30579  O4* C  A1448     114.001  22.612 -16.826  1.00 84.46      A16S
ATOM  30580  C1* C  A1448     113.194  23.776 -16.748  1.00 84.46      A16S
ATOM  30581  N1  C  A1448     112.886  24.255 -18.116  1.00 55.59      A16S
ATOM  30582  C6  C  A1448     112.999  23.431 -19.204  1.00 55.59      A16S
ATOM  30583  C2  C  A1448     112.455  25.580 -18.282  1.00 55.59      A16S
ATOM  30584  O2  C  A1448     112.387  26.319 -17.290  1.00 55.59      A16S
ATOM  30585  N3  C  A1448     112.127  26.024 -19.519  1.00 55.59      A16S
ATOM  30586  C4  C  A1448     112.229  25.208 -20.569  1.00 55.59      A16S
ATOM  30587  N4  C  A1448     111.887  25.689 -21.762  1.00 55.59      A16S
ATOM  30588  C5  C  A1448     112.686  23.863 -20.438  1.00 55.59      A16S
ATOM  30589  C2* C  A1448     111.925  23.395 -15.986  1.00 84.46      A16S
ATOM  30590  O2* C  A1448     112.089  23.672 -14.607  1.00 84.46      A16S
ATOM  30591  C3* C  A1448     111.855  21.902 -16.246  1.00 84.46      A16S
ATOM  30592  O3* C  A1448     111.048  21.228 -15.309  1.00 84.46      A16S
ATOM  30593  P   C  A1449     109.499  20.984 -15.656  1.00 65.07      A16S
ATOM  30594  O1P C  A1449     108.903  20.179 -14.551  1.00 70.17      A16S
ATOM  30595  O2P C  A1449     109.390  20.501 -17.060  1.00 70.17      A16S
ATOM  30596  O5* C  A1449     108.871  22.447 -15.618  1.00 65.07      A16S
ATOM  30597  C5* C  A1449     108.804  23.176 -14.385  1.00 65.07      A16S
ATOM  30598  C4* C  A1449     107.998  24.439 -14.560  1.00 65.07      A16S
ATOM  30599  O4* C  A1449     108.761  25.429 -15.295  1.00 65.07      A16S
ATOM  30600  C1* C  A1449     107.884  26.216 -16.081  1.00 65.07      A16S
ATOM  30601  N1  C  A1449     108.215  26.019 -17.504  1.00 70.17      A16S
ATOM  30602  C6  C  A1449     109.163  25.119 -17.896  1.00 70.17      A16S
ATOM  30603  C2  C  A1449     107.509  26.760 -18.463  1.00 70.17      A16S
ATOM  30604  O2  C  A1449     106.670  27.592 -18.079  1.00 70.17      A16S
ATOM  30605  N3  C  A1449     107.755  26.552 -19.776  1.00 70.17      A16S
ATOM  30606  C4  C  A1449     108.665  25.655 -20.144  1.00 70.17      A16S
ATOM  30607  N4  C  A1449     108.859  25.471 -21.447  1.00 70.17      A16S
ATOM  30608  C5  C  A1449     109.413  24.905 -19.191  1.00 70.17      A16S
ATOM  30609  C2* C  A1449     106.463  25.733 -15.794  1.00 65.07      A16S
ATOM  30610  O2* C  A1449     105.897  26.510 -14.765  1.00 65.07      A16S
ATOM  30611  C3* C  A1449     106.711  24.306 -15.343  1.00 65.07      A16S
ATOM  30612  O3* C  A1449     105.643  23.812 -14.572  1.00 65.07      A16S
ATOM  30613  P   U  A1450     104.408  23.110 -15.316  1.00 50.92      A16S
ATOM  30614  O1P U  A1450     103.394  22.776 -14.288  1.00 68.39      A16S
ATOM  30615  O2P U  A1450     104.907  22.055 -16.232  1.00 68.39      A16S
ATOM  30616  O5* U  A1450     103.804  24.255 -16.235  1.00 50.92      A16S
ATOM  30617  C5* U  A1450     103.025  25.319 -15.678  1.00 50.92      A16S
ATOM  30618  C4* U  A1450     102.476  26.174 -16.784  1.00 50.92      A16S
ATOM  30619  O4* U  A1450     103.584  26.721 -17.545  1.00 50.92      A16S
ATOM  30620  C1* U  A1450     103.228  26.805 -18.911  1.00 50.92      A16S
ATOM  30621  N1  U  A1450     104.157  25.978 -19.694  1.00 68.39      A16S
ATOM  30622  C6  U  A1450     104.888  24.981 -19.109  1.00 68.39      A16S
ATOM  30623  C2  U  A1450     104.254  26.224 -21.044  1.00 68.39      A16S
ATOM  30624  O2  U  A1450     103.646  27.117 -21.598  1.00 68.39      A16S
ATOM  30625  N3  U  A1450     105.093  25.386 -21.726  1.00 68.39      A16S
ATOM  30626  C4  U  A1450     105.838  24.356 -21.203  1.00 68.39      A16S
ATOM  30627  O4  U  A1450     106.519  23.654 -21.955  1.00 68.39      A16S
ATOM  30628  C5  U  A1450     105.702  24.184 -19.797  1.00 68.39      A16S
ATOM  30629  C2* U  A1450     101.780  26.330 -19.041  1.00 50.92      A16S
ATOM  30630  O2* U  A1450     100.942  27.461 -18.986  1.00 50.92      A16S
ATOM  30631  C3* U  A1450     101.633  25.441 -17.814  1.00 50.92      A16S
ATOM  30632  O3* U  A1450     100.285  25.302 -17.374  1.00 50.92      A16S
ATOM  30633  P   A  A1451      99.249  24.412 -18.225  1.00 60.14      A16S
ATOM  30634  O1P A  A1451      98.272  23.825 -17.274  1.00 88.82      A16S
ATOM  30635  O2P A  A1451     100.009  23.518 -19.139  1.00 88.82      A16S
ATOM  30636  O5* A  A1451      98.495  25.501 -19.101  1.00 60.14      A16S
ATOM  30637  C5* A  A1451      97.276  25.206 -19.816  1.00 60.14      A16S
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ATOM  30638  C4*  A   A1451      96.567  26.497 -20.122  1.00 60.14      A16S
ATOM  30639  O4*  A   A1451      96.193  27.078 -18.856  1.00 60.14      A16S
ATOM  30640  C1*  A   A1451      96.507  28.453 -18.838  1.00 60.14      A16S
ATOM  30641  N9   A   A1451      97.411  28.691 -17.725  1.00 88.82      A16S
ATOM  30642  C4   A   A1451      97.166  29.516 -16.661  1.00 88.82      A16S
ATOM  30643  N3   A   A1451      96.055  30.233 -16.429  1.00 88.82      A16S
ATOM  30644  C2   A   A1451      96.181  30.937 -15.310  1.00 88.82      A16S
ATOM  30645  N1   A   A1451      97.215  31.001 -14.464  1.00 88.82      A16S
ATOM  30646  C6   A   A1451      98.317  30.263 -14.731  1.00 88.82      A16S
ATOM  30647  N6   A   A1451      99.360  30.330 -13.895  1.00 88.82      A16S
ATOM  30648  C5   A   A1451      98.302  29.469 -15.883  1.00 88.82      A16S
ATOM  30649  N7   A   A1451      99.240  28.611 -16.435  1.00 88.82      A16S
ATOM  30650  C8   A   A1451      98.660  28.173 -17.521  1.00 88.82      A16S
ATOM  30651  C2*  A   A1451      97.089  28.855 -20.191  1.00 60.14      A16S
ATOM  30652  O2*  A   A1451      96.171  29.598 -20.949  1.00 60.14      A16S
ATOM  30653  C3*  A   A1451      97.494  27.513 -20.770  1.00 60.14      A16S
ATOM  30654  O3*  A   A1451      97.506  27.428 -22.192  1.00 60.14      A16S
ATOM  30655  P    C   A1452      96.125  27.408 -23.039  1.00 52.12      A16S
ATOM  30656  O1P  C   A1452      95.203  28.492 -22.662  1.00 62.22      A16S
ATOM  30657  O2P  C   A1452      95.628  26.013 -23.036  1.00 62.22      A16S
ATOM  30658  O5*  C   A1452      96.649  27.727 -24.513  1.00 52.12      A16S
ATOM  30659  C5*  C   A1452      97.336  28.968 -24.792  1.00 52.12      A16S
ATOM  30660  C4*  C   A1452      98.654  28.726 -25.504  1.00 52.12      A16S
ATOM  30661  O4*  C   A1452      99.646  28.161 -24.608  1.00 52.12      A16S
ATOM  30662  C1*  C   A1452     100.215  27.020 -25.207  1.00 52.12      A16S
ATOM  30663  N1   C   A1452     100.647  26.074 -24.162  1.00 62.22      A16S
ATOM  30664  C6   C   A1452      99.978  25.976 -22.974  1.00 62.22      A16S
ATOM  30665  C2   C   A1452     101.783  25.281 -24.400  1.00 62.22      A16S
ATOM  30666  O2   C   A1452     102.363  25.362 -25.495  1.00 62.22      A16S
ATOM  30667  N3   C   A1452     102.221  24.447 -23.431  1.00 62.22      A16S
ATOM  30668  C4   C   A1452     101.579  24.386 -22.266  1.00 62.22      A16S
ATOM  30669  N4   C   A1452     102.073  23.580 -21.327  1.00 62.22      A16S
ATOM  30670  C5   C   A1452     100.408  25.157 -22.007  1.00 62.22      A16S
ATOM  30671  C2*  C   A1452      99.165  26.511 -26.187  1.00 52.12      A16S
ATOM  30672  O2*  C   A1452      99.769  25.670 -27.149  1.00 52.12      A16S
ATOM  30673  C3*  C   A1452      98.613  27.830 -26.729  1.00 52.12      A16S
ATOM  30674  O3*  C   A1452      99.528  28.386 -27.678  1.00 52.12      A16S
ATOM  30675  P    G   A1453      98.979  29.185 -28.967  1.00 62.99      A16S
ATOM  30676  O1P  G   A1453      97.500  29.092 -29.047  1.00 65.78      A16S
ATOM  30677  O2P  G   A1453      99.807  28.765 -30.124  1.00 65.78      A16S
ATOM  30678  O5*  G   A1453      99.321  30.700 -28.643  1.00 62.99      A16S
ATOM  30679  C5*  G   A1453     100.653  31.092 -28.291  1.00 62.99      A16S
ATOM  30680  C4*  G   A1453     100.609  32.386 -27.536  1.00 62.99      A16S
ATOM  30681  O4*  G   A1453      99.709  32.230 -26.416  1.00 62.99      A16S
ATOM  30682  C1*  G   A1453     100.147  33.045 -25.355  1.00 62.99      A16S
ATOM  30683  N9   G   A1453     100.136  32.266 -24.116  1.00 65.78      A16S
ATOM  30684  C4   G   A1453     100.929  31.185 -23.792  1.00 65.78      A16S
ATOM  30685  N3   G   A1453     101.874  30.630 -24.572  1.00 65.78      A16S
ATOM  30686  C2   G   A1453     102.467  29.610 -23.978  1.00 65.78      A16S
ATOM  30687  N2   G   A1453     103.430  28.937 -24.612  1.00 65.78      A16S
ATOM  30688  N1   G   A1453     102.159  29.169 -22.722  1.00 65.78      A16S
ATOM  30689  C6   G   A1453     101.185  29.713 -21.903  1.00 65.78      A16S
ATOM  30690  O6   G   A1453     100.974  29.220 -20.793  1.00 65.78      A16S
ATOM  30691  C5   G   A1453     100.541  30.816 -22.522  1.00 65.78      A16S
ATOM  30692  N7   G   A1453      99.527  31.642 -22.057  1.00 65.78      A16S
ATOM  30693  C8   G   A1453      99.318  32.480 -23.034  1.00 65.78      A16S
ATOM  30694  C2*  G   A1453     101.477  33.705 -25.758  1.00 62.99      A16S
ATOM  30695  O2*  G   A1453     101.236  35.047 -26.130  1.00 62.99      A16S
ATOM  30696  C3*  G   A1453     101.926  32.849 -26.939  1.00 62.99      A16S
ATOM  30697  O3*  G   A1453     102.645  33.625 -27.896  1.00 62.99      A16S
ATOM  30698  P    G   A1454     104.180  33.277 -28.229  1.00 57.31      A16S
ATOM  30699  O1P  G   A1454     104.614  34.171 -29.328  1.00 59.56      A16S
ATOM  30700  O2P  G   A1454     104.320  31.813 -28.386  1.00 59.56      A16S
ATOM  30701  O5*  G   A1454     104.972  33.690 -26.915  1.00 57.31      A16S
ATOM  30702  C5*  G   A1454     104.773  34.978 -26.325  1.00 57.31      A16S
ATOM  30703  C4*  G   A1454     105.074  34.924 -24.854  1.00 57.31      A16S
ATOM  30704  O4*  G   A1454     104.302  33.831 -24.294  1.00 57.31      A16S
ATOM  30705  C1*  G   A1454     105.023  33.231 -23.227  1.00 57.31      A16S
ATOM  30706  N9   G   A1454     105.406  31.871 -23.590  1.00 59.56      A16S
ATOM  30707  C4   G   A1454     105.857  30.919 -22.714  1.00 59.56      A16S
ATOM  30708  N3   G   A1454     105.922  31.053 -21.376  1.00 59.56      A16S
ATOM  30709  C2   G   A1454     106.444  29.990 -20.796  1.00 59.56      A16S
ATOM  30710  N2   G   A1454     106.554  29.954 -19.461  1.00 59.56      A16S
ATOM  30711  N1   G   A1454     106.892  28.888 -21.480  1.00 59.56      A16S
ATOM  30712  C6   G   A1454     106.849  28.735 -22.857  1.00 59.56      A16S
ATOM  30713  O6   G   A1454     107.316  27.717 -23.372  1.00 59.56      A16S
ATOM  30714  C5   G   A1454     106.254  29.863 -23.492  1.00 59.56      A16S
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ATOM  30715  N7  G   A1454     105.996  30.117 -24.834  1.00 59.56      A16S
ATOM  30716  C8  G   A1454     105.479  31.313 -24.842  1.00 59.56      A16S
ATOM  30717  C2* G   A1454     106.312  34.023 -23.053  1.00 57.31      A16S
ATOM  30718  O2* G   A1454     106.141  34.990 -22.037  1.00 57.31      A16S
ATOM  30719  C3* G   A1454     106.502  34.591 -24.451  1.00 57.31      A16S
ATOM  30720  O3* G   A1454     107.407  35.678 -24.461  1.00 57.31      A16S
ATOM  30721  P   G   A1455     108.985  35.388 -24.291  1.00 44.69      A16S
ATOM  30722  O1P G   A1455     109.730  36.657 -24.482  1.00 70.99      A16S
ATOM  30723  O2P G   A1455     109.368  34.198 -25.092  1.00 70.99      A16S
ATOM  30724  O5* G   A1455     109.132  35.017 -22.756  1.00 44.69      A16S
ATOM  30725  C5* G   A1455     108.732  35.951 -21.743  1.00 44.69      A16S
ATOM  30726  C4* G   A1455     108.962  35.360 -20.379  1.00 44.69      A16S
ATOM  30727  O4* G   A1455     108.149  34.163 -20.225  1.00 44.69      A16S
ATOM  30728  C1* G   A1455     108.895  33.169 -19.532  1.00 44.69      A16S
ATOM  30729  N9  G   A1455     109.123  32.049 -20.444  1.00 70.99      A16S
ATOM  30730  C4  G   A1455     109.718  30.849 -20.141  1.00 70.99      A16S
ATOM  30731  N3  G   A1455     110.155  30.469 -18.929  1.00 70.99      A16S
ATOM  30732  C2  G   A1455     110.695  29.265 -18.956  1.00 70.99      A16S
ATOM  30733  N2  G   A1455     111.152  28.719 -17.826  1.00 70.99      A16S
ATOM  30734  N1  G   A1455     110.819  28.504 -20.090  1.00 70.99      A16S
ATOM  30735  C6  G   A1455     110.380  28.879 -21.351  1.00 70.99      A16S
ATOM  30736  O6  G   A1455     110.548  28.123 -22.311  1.00 70.99      A16S
ATOM  30737  C5  G   A1455     109.776  30.158 -21.330  1.00 70.99      A16S
ATOM  30738  N7  G   A1455     109.197  30.890 -22.353  1.00 70.99      A16S
ATOM  30739  C8  G   A1455     108.821  32.001 -21.782  1.00 70.99      A16S
ATOM  30740  C2* G   A1455     110.213  33.816 -19.093  1.00 44.69      A16S
ATOM  30741  O2* G   A1455     110.064  34.396 -17.815  1.00 44.69      A16S
ATOM  30742  C3* G   A1455     110.386  34.889 -20.151  1.00 44.69      A16S
ATOM  30743  O3* G   A1455     111.229  35.940 -19.733  1.00 44.69      A16S
ATOM  30744  P   C   A1459     112.793  35.887 -20.095  1.00 51.58      A16S
ATOM  30745  O1P C   A1459     113.399  37.148 -19.577  1.00 58.65      A16S
ATOM  30746  O2P C   A1459     112.966  35.517 -21.533  1.00 58.65      A16S
ATOM  30747  O5* C   A1459     113.347  34.676 -19.219  1.00 51.58      A16S
ATOM  30748  C5* C   A1459     113.154  34.650 -17.794  1.00 51.58      A16S
ATOM  30749  C4* C   A1459     113.683  33.362 -17.217  1.00 51.58      A16S
ATOM  30750  O4* C   A1459     112.885  32.235 -17.661  1.00 51.58      A16S
ATOM  30751  C1* C   A1459     113.708  31.090 -17.797  1.00 51.58      A16S
ATOM  30752  N1  C   A1459     113.644  30.611 -19.186  1.00 58.65      A16S
ATOM  30753  C6  C   A1459     113.054  31.358 -20.160  1.00 58.65      A16S
ATOM  30754  C2  C   A1459     114.212  29.377 -19.498  1.00 58.65      A16S
ATOM  30755  O2  C   A1459     114.726  28.709 -18.595  1.00 58.65      A16S
ATOM  30756  N3  C   A1459     114.186  28.939 -20.769  1.00 58.65      A16S
ATOM  30757  C4  C   A1459     113.616  29.680 -21.712  1.00 58.65      A16S
ATOM  30758  N4  C   A1459     113.614  29.213 -22.956  1.00 58.65      A16S
ATOM  30759  C5  C   A1459     113.019  30.934 -21.423  1.00 58.65      A16S
ATOM  30760  C2* C   A1459     115.125  31.494 -17.406  1.00 51.58      A16S
ATOM  30761  O2* C   A1459     115.322  31.150 -16.053  1.00 51.58      A16S
ATOM  30762  C3* C   A1459     115.091  32.999 -17.634  1.00 51.58      A16S
ATOM  30763  O3* C   A1459     116.051  33.689 -16.865  1.00 51.58      A16S
ATOM  30764  P   A   A1460     117.507  33.942 -17.478  1.00 42.66      A16S
ATOM  30765  O1P A   A1460     118.284  34.656 -16.427  1.00 65.15      A16S
ATOM  30766  O2P A   A1460     117.346  34.557 -18.818  1.00 65.15      A16S
ATOM  30767  O5* A   A1460     118.114  32.475 -17.653  1.00 42.66      A16S
ATOM  30768  C5* A   A1460     118.290  31.633 -16.491  1.00 42.66      A16S
ATOM  30769  C4* A   A1460     118.741  30.240 -16.868  1.00 42.66      A16S
ATOM  30770  O4* A   A1460     117.725  29.545 -17.632  1.00 42.66      A16S
ATOM  30771  C1* A   A1460     118.349  28.636 -18.523  1.00 42.66      A16S
ATOM  30772  N9  A   A1460     117.994  29.015 -19.887  1.00 65.15      A16S
ATOM  30773  C4  A   A1460     118.081  28.220 -21.003  1.00 65.15      A16S
ATOM  30774  N3  A   A1460     118.518  26.952 -21.070  1.00 65.15      A16S
ATOM  30775  C2  A   A1460     118.440  26.497 -22.320  1.00 65.15      A16S
ATOM  30776  N1  A   A1460     118.008  27.120 -23.424  1.00 65.15      A16S
ATOM  30777  C6  A   A1460     117.578  28.395 -23.317  1.00 65.15      A16S
ATOM  30778  N6  A   A1460     117.146  29.024 -24.411  1.00 65.15      A16S
ATOM  30779  C5  A   A1460     117.611  28.990 -22.051  1.00 65.15      A16S
ATOM  30780  N7  A   A1460     117.249  30.251 -21.608  1.00 65.15      A16S
ATOM  30781  C8  A   A1460     117.499  30.217 -20.323  1.00 65.15      A16S
ATOM  30782  C2* A   A1460     119.853  28.728 -18.288  1.00 42.66      A16S
ATOM  30783  O2* A   A1460     120.241  27.758 -17.335  1.00 42.66      A16S
ATOM  30784  C3* A   A1460     119.983  30.127 -17.719  1.00 42.66      A16S
ATOM  30785  O3* A   A1460     121.153  30.251 -16.956  1.00 42.66      A16S
ATOM  30786  P   G   A1461     122.407  31.017 -17.585  1.00 67.37      A16S
ATOM  30787  O1P G   A1461     123.571  30.804 -16.672  1.00 64.22      A16S
ATOM  30788  O2P G   A1461     121.961  32.406 -17.905  1.00 64.22      A16S
ATOM  30789  O5* G   A1461     122.671  30.239 -18.950  1.00 67.37      A16S
ATOM  30790  C5* G   A1461     123.125  28.877 -18.936  1.00 67.37      A16S
ATOM  30791  C4* G   A1461     123.032  28.282 -20.314  1.00 67.37      A16S
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ATOM  30792  O4*  G    A1461     121.655  28.340 -20.754  1.00 67.37      A16S
ATOM  30793  C1*  G    A1461     121.609  28.575 -22.148  1.00 67.37      A16S
ATOM  30794  N9   G    A1461     120.986  29.870 -22.376  1.00 64.22      A16S
ATOM  30795  C4   G    A1461     120.494  30.318 -23.576  1.00 64.22      A16S
ATOM  30796  N3   G    A1461     120.468  29.620 -24.729  1.00 64.22      A16S
ATOM  30797  C2   G    A1461     119.931  30.314 -25.711  1.00 64.22      A16S
ATOM  30798  N2   G    A1461     119.790  29.757 -26.917  1.00 64.22      A16S
ATOM  30799  N1   G    A1461     119.482  31.601 -25.582  1.00 64.22      A16S
ATOM  30800  C6   G    A1461     119.511  32.345 -24.410  1.00 64.22      A16S
ATOM  30801  O6   G    A1461     119.095  33.504 -24.408  1.00 64.22      A16S
ATOM  30802  C5   G    A1461     120.058  31.603 -23.335  1.00 64.22      A16S
ATOM  30803  N7   G    A1461     120.254  31.951 -22.001  1.00 64.22      A16S
ATOM  30804  C8   G    A1461     120.804  30.891 -21.470  1.00 64.22      A16S
ATOM  30805  C2*  G    A1461     123.043  28.618 -22.662  1.00 67.37      A16S
ATOM  30806  O2*  G    A1461     123.395  27.351 -23.166  1.00 67.37      A16S
ATOM  30807  C3*  G    A1461     123.797  29.014 -21.403  1.00 67.37      A16S
ATOM  30808  O3*  G    A1461     125.169  28.661 -21.456  1.00 67.37      A16S
ATOM  30809  P    G    A1462     126.215  29.683 -22.118  1.00 67.37      A16S
ATOM  30810  O1P  G    A1462     127.568  29.088 -22.008  1.00 61.41      A16S
ATOM  30811  O2P  G    A1462     125.969  31.041 -21.574  1.00 61.41      A16S
ATOM  30812  O5*  G    A1462     125.780  29.693 -23.646  1.00 67.37      A16S
ATOM  30813  C5*  G    A1462     125.879  28.505 -24.435  1.00 67.37      A16S
ATOM  30814  C4*  G    A1462     125.518  28.799 -25.866  1.00 67.37      A16S
ATOM  30815  O4*  G    A1462     124.108  29.118 -25.964  1.00 67.37      A16S
ATOM  30816  C1*  G    A1462     123.907  30.074 -26.990  1.00 67.37      A16S
ATOM  30817  N9   G    A1462     123.320  31.274 -26.408  1.00 61.41      A16S
ATOM  30818  C4   G    A1462     122.656  32.251 -27.096  1.00 61.41      A16S
ATOM  30819  N3   G    A1462     122.409  32.248 -28.418  1.00 61.41      A16S
ATOM  30820  C2   G    A1462     121.747  33.321 -28.796  1.00 61.41      A16S
ATOM  30821  N2   G    A1462     121.387  33.458 -30.077  1.00 61.41      A16S
ATOM  30822  N1   G    A1462     121.379  34.333 -27.946  1.00 61.41      A16S
ATOM  30823  C6   G    A1462     121.629  34.360 -26.578  1.00 61.41      A16S
ATOM  30824  O6   G    A1462     121.252  35.323 -25.899  1.00 61.41      A16S
ATOM  30825  C5   G    A1462     122.321  33.201 -26.157  1.00 61.41      A16S
ATOM  30826  N7   G    A1462     122.752  32.820 -24.896  1.00 61.41      A16S
ATOM  30827  C8   G    A1462     123.337  31.669 -25.091  1.00 61.41      A16S
ATOM  30828  C2*  G    A1462     125.266  30.383 -27.608  1.00 67.37      A16S
ATOM  30829  O2*  G    A1462     125.440  29.583 -28.753  1.00 67.37      A16S
ATOM  30830  C3*  G    A1462     126.208  29.999 -26.480  1.00 67.37      A16S
ATOM  30831  O3*  G    A1462     127.512  29.701 -26.929  1.00 67.37      A16S
ATOM  30832  P    C    A1463     128.648  30.832 -26.829  1.00 67.37      A16S
ATOM  30833  O1P  C    A1463     129.964  30.153 -26.971  1.00 58.01      A16S
ATOM  30834  O2P  C    A1463     128.394  31.687 -25.630  1.00 58.01      A16S
ATOM  30835  O5*  C    A1463     128.369  31.724 -28.117  1.00 67.37      A16S
ATOM  30836  C5*  C    A1463     128.245  31.115 -29.399  1.00 67.37      A16S
ATOM  30837  C4*  C    A1463     127.522  32.029 -30.349  1.00 67.37      A16S
ATOM  30838  O4*  C    A1463     126.150  32.221 -29.914  1.00 67.37      A16S
ATOM  30839  C1*  C    A1463     125.699  33.506 -30.314  1.00 67.37      A16S
ATOM  30840  N1   C    A1463     125.328  34.286 -29.118  1.00 58.01      A16S
ATOM  30841  C6   C    A1463     125.795  33.944 -27.879  1.00 58.01      A16S
ATOM  30842  C2   C    A1463     124.497  35.408 -29.273  1.00 58.01      A16S
ATOM  30843  O2   C    A1463     124.078  35.697 -30.398  1.00 58.01      A16S
ATOM  30844  N3   C    A1463     124.178  36.147 -28.196  1.00 58.01      A16S
ATOM  30845  C4   C    A1463     124.651  35.813 -26.996  1.00 58.01      A16S
ATOM  30846  N4   C    A1463     124.322  36.586 -25.964  1.00 58.01      A16S
ATOM  30847  C5   C    A1463     125.487  34.675 -26.803  1.00 58.01      A16S
ATOM  30848  C2*  C    A1463     126.848  34.176 -31.063  1.00 67.37      A16S
ATOM  30849  O2*  C    A1463     126.679  33.959 -32.452  1.00 67.37      A16S
ATOM  30850  C3*  C    A1463     128.051  33.443 -30.485  1.00 67.37      A16S
ATOM  30851  O3*  C    A1463     129.203  33.545 -31.299  1.00 67.37      A16S
ATOM  30852  P    G    A1464     130.302  34.673 -30.965  1.00 55.78      A16S
ATOM  30853  O1P  G    A1464     131.451  34.405 -31.872  1.00 60.59      A16S
ATOM  30854  O2P  G    A1464     130.539  34.716 -29.499  1.00 60.59      A16S
ATOM  30855  O5*  G    A1464     129.592  36.041 -31.397  1.00 55.78      A16S
ATOM  30856  C5*  G    A1464     129.216  36.268 -32.768  1.00 55.78      A16S
ATOM  30857  C4*  G    A1464     128.415  37.549 -32.918  1.00 55.78      A16S
ATOM  30858  O4*  G    A1464     127.143  37.451 -32.222  1.00 55.78      A16S
ATOM  30859  C1*  G    A1464     126.744  38.732 -31.754  1.00 55.78      A16S
ATOM  30860  N9   G    A1464     126.684  38.684 -30.295  1.00 60.59      A16S
ATOM  30861  C4   G    A1464     126.035  39.561 -29.456  1.00 60.59      A16S
ATOM  30862  N3   G    A1464     125.292  40.615 -29.829  1.00 60.59      A16S
ATOM  30863  C2   G    A1464     124.820  41.277 -28.789  1.00 60.59      A16S
ATOM  30864  N2   G    A1464     124.056  42.343 -28.972  1.00 60.59      A16S
ATOM  30865  N1   G    A1464     125.062  40.938 -27.495  1.00 60.59      A16S
ATOM  30866  C6   G    A1464     125.829  39.864 -27.085  1.00 60.59      A16S
ATOM  30867  O6   G    A1464     125.999  39.659 -25.884  1.00 60.59      A16S
ATOM  30868  C5   G    A1464     126.332  39.136 -28.182  1.00 60.59      A16S
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ATOM  30869  N7  G  A1464     127.127  38.002 -28.214  1.00 60.59      A16S
ATOM  30870  C8  G  A1464     127.303  37.766 -29.483  1.00 60.59      A16S
ATOM  30871  C2* G  A1464     127.796  39.731 -32.241  1.00 55.78      A16S
ATOM  30872  O2* G  A1464     127.381  40.298 -33.474  1.00 55.78      A16S
ATOM  30873  C3* G  A1464     129.022  38.838 -32.400  1.00 55.78      A16S
ATOM  30874  O3* G  A1464     129.962  39.392 -33.303  1.00 55.78      A16S
ATOM  30875  P   C  A1465     131.149  40.311 -32.733  1.00 53.66      A16S
ATOM  30876  O1P C  A1465     132.169  40.411 -33.802  1.00 72.69      A16S
ATOM  30877  O2P C  A1465     131.541  39.806 -31.395  1.00 72.69      A16S
ATOM  30878  O5* C  A1465     130.464  41.736 -32.551  1.00 53.66      A16S
ATOM  30879  C5* C  A1465     129.946  42.430 -33.690  1.00 53.66      A16S
ATOM  30880  C4* C  A1465     129.280  43.710 -33.272  1.00 53.66      A16S
ATOM  30881  O4* C  A1465     128.101  43.407 -32.491  1.00 53.66      A16S
ATOM  30882  C1* C  A1465     127.920  44.403 -31.499  1.00 53.66      A16S
ATOM  30883  N1  C  A1465     127.960  43.759 -30.167  1.00 72.69      A16S
ATOM  30884  C6  C  A1465     128.712  42.638 -29.949  1.00 72.69      A16S
ATOM  30885  C2  C  A1465     127.214  44.320 -29.121  1.00 72.69      A16S
ATOM  30886  O2  C  A1465     126.545  45.346 -29.335  1.00 72.69      A16S
ATOM  30887  N3  C  A1465     127.242  43.734 -27.902  1.00 72.69      A16S
ATOM  30888  C4  C  A1465     127.973  42.640 -27.706  1.00 72.69      A16S
ATOM  30889  N4  C  A1465     127.960  42.094 -26.492  1.00 72.69      A16S
ATOM  30890  C5  C  A1465     128.747  42.054 -28.746  1.00 72.69      A16S
ATOM  30891  C2* C  A1465     129.020  45.451 -31.693  1.00 53.66      A16S
ATOM  30892  O2* C  A1465     128.529  46.500 -32.505  1.00 53.66      A16S
ATOM  30893  C3* C  A1465     130.099  44.639 -32.395  1.00 53.66      A16S
ATOM  30894  O3* C  A1465     130.969  45.458 -33.159  1.00 53.66      A16S
ATOM  30895  P   C  A1466     132.398  45.882 -32.554  1.00 54.67      A16S
ATOM  30896  O1P C  A1466     133.083  46.714 -33.573  1.00 79.58      A16S
ATOM  30897  O2P C  A1466     133.077  44.669 -32.030  1.00 79.58      A16S
ATOM  30898  O5* C  A1466     132.020  46.824 -31.327  1.00 54.67      A16S
ATOM  30899  C5* C  A1466     131.120  47.931 -31.498  1.00 54.67      A16S
ATOM  30900  C4* C  A1466     130.636  48.432 -30.157  1.00 54.67      A16S
ATOM  30901  O4* C  A1466     129.796  47.435 -29.521  1.00 54.67      A16S
ATOM  30902  C1* C  A1466     129.946  47.515 -28.111  1.00 54.67      A16S
ATOM  30903  N1  C  A1466     130.321  46.189 -27.581  1.00 79.58      A16S
ATOM  30904  C6  C  A1466     131.095  45.333 -28.314  1.00 79.58      A16S
ATOM  30905  C2  C  A1466     129.872  45.816 -26.304  1.00 79.58      A16S
ATOM  30906  O2  C  A1466     129.160  46.603 -25.657  1.00 79.58      A16S
ATOM  30907  N3  C  A1466     130.224  44.606 -25.811  1.00 79.58      A16S
ATOM  30908  C4  C  A1466     130.983  43.783 -26.539  1.00 79.58      A16S
ATOM  30909  N4  C  A1466     131.310  42.603 -26.016  1.00 79.58      A16S
ATOM  30910  C5  C  A1466     131.442  44.133 -27.837  1.00 79.58      A16S
ATOM  30911  C2* C  A1466     130.974  48.606 -27.809  1.00 54.67      A16S
ATOM  30912  O2* C  A1466     130.302  49.800 -27.471  1.00 54.67      A16S
ATOM  30913  C3* C  A1466     131.716  48.720 -29.133  1.00 54.67      A16S
ATOM  30914  O3* C  A1466     132.267  50.008 -29.304  1.00 54.67      A16S
ATOM  30915  P   G  A1467     133.830  50.236 -29.028  1.00 58.97      A16S
ATOM  30916  O1P G  A1467     134.068  51.703 -29.064  1.00 62.44      A16S
ATOM  30917  O2P G  A1467     134.616  49.331 -29.915  1.00 62.44      A16S
ATOM  30918  O5* G  A1467     134.044  49.746 -27.532  1.00 58.97      A16S
ATOM  30919  C5* G  A1467     133.431  50.436 -26.445  1.00 58.97      A16S
ATOM  30920  C4* G  A1467     133.545  49.620 -25.191  1.00 58.97      A16S
ATOM  30921  O4* G  A1467     132.865  48.356 -25.386  1.00 58.97      A16S
ATOM  30922  C1* G  A1467     133.527  47.341 -24.655  1.00 58.97      A16S
ATOM  30923  N9  G  A1467     133.925  46.282 -25.576  1.00 62.44      A16S
ATOM  30924  C4  G  A1467     134.046  44.952 -25.270  1.00 62.44      A16S
ATOM  30925  N3  G  A1467     133.766  44.389 -24.081  1.00 62.44      A16S
ATOM  30926  C2  G  A1467     133.985  43.090 -24.087  1.00 62.44      A16S
ATOM  30927  N2  G  A1467     133.710  42.366 -22.998  1.00 62.44      A16S
ATOM  30928  N1  G  A1467     134.477  42.401 -25.162  1.00 62.44      A16S
ATOM  30929  C6  G  A1467     134.783  42.956 -26.397  1.00 62.44      A16S
ATOM  30930  O6  G  A1467     135.238  42.235 -27.306  1.00 62.44      A16S
ATOM  30931  C5  G  A1467     134.514  44.353 -26.417  1.00 62.44      A16S
ATOM  30932  N7  G  A1467     134.648  45.284 -27.439  1.00 62.44      A16S
ATOM  30933  C8  G  A1467     134.284  46.411 -26.896  1.00 62.44      A16S
ATOM  30934  C2* G  A1467     134.715  47.984 -23.937  1.00 58.97      A16S
ATOM  30935  O2* G  A1467     134.319  48.290 -22.614  1.00 58.97      A16S
ATOM  30936  C3* G  A1467     134.952  49.234 -24.778  1.00 58.97      A16S
ATOM  30937  O3* G  A1467     135.547  50.278 -24.023  1.00 58.97      A16S
ATOM  30938  P   A  A1468     137.116  50.594 -24.184  1.00 58.91      A16S
ATOM  30939  O1P A  A1468     137.223  52.048 -24.500  1.00 56.94      A16S
ATOM  30940  O2P A  A1468     137.721  49.596 -25.114  1.00 56.94      A16S
ATOM  30941  O5* A  A1468     137.703  50.366 -22.713  1.00 58.91      A16S
ATOM  30942  C5* A  A1468     137.364  51.270 -21.630  1.00 58.91      A16S
ATOM  30943  C4* A  A1468     137.772  50.686 -20.296  1.00 58.91      A16S
ATOM  30944  O4* A  A1468     137.075  49.439 -20.099  1.00 58.91      A16S
ATOM  30945  C1* A  A1468     137.930  48.500 -19.475  1.00 58.91      A16S
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ATOM  30946  N9  A  A1468     138.126  47.388 -20.403  1.00 56.94      A16S
ATOM  30947  C4  A  A1468     138.525  46.116 -20.088  1.00 56.94      A16S
ATOM  30948  N3  A  A1468     138.818  45.637 -18.873  1.00 56.94      A16S
ATOM  30949  C2  A  A1468     139.157  44.359 -18.952  1.00 56.94      A16S
ATOM  30950  N1  A  A1468     139.229  43.563 -20.030  1.00 56.94      A16S
ATOM  30951  C6  A  A1468     138.924  44.084 -21.236  1.00 56.94      A16S
ATOM  30952  N6  A  A1468     138.980  43.298 -22.313  1.00 56.94      A16S
ATOM  30953  C5  A  A1468     138.557  45.426 -21.285  1.00 56.94      A16S
ATOM  30954  N7  A  A1468     138.192  46.248 -22.338  1.00 56.94      A16S
ATOM  30955  C8  A  A1468     137.948  47.398 -21.767  1.00 56.94      A16S
ATOM  30956  C2* A  A1468     139.234  49.212 -19.132  1.00 58.91      A16S
ATOM  30957  O2* A  A1468     139.151  49.649 -17.799  1.00 58.91      A16S
ATOM  30958  C3* A  A1468     139.244  50.345 -20.149  1.00 58.91      A16S
ATOM  30959  O3* A  A1468     139.978  51.474 -19.688  1.00 58.91      A16S
ATOM  30960  P   G  A1469     141.338  51.897 -20.434  1.00 57.69      A16S
ATOM  30961  O1P G  A1469     141.998  52.945 -19.610  1.00 68.42      A16S
ATOM  30962  O2P G  A1469     141.003  52.180 -21.854  1.00 68.42      A16S
ATOM  30963  O5* G  A1469     142.226  50.574 -20.388  1.00 57.69      A16S
ATOM  30964  C5* G  A1469     142.591  50.002 -19.134  1.00 57.69      A16S
ATOM  30965  C4* G  A1469     142.945  48.547 -19.290  1.00 57.69      A16S
ATOM  30966  O4* G  A1469     141.811  47.815 -19.811  1.00 57.69      A16S
ATOM  30967  C1* G  A1469     142.273  46.661 -20.496  1.00 57.69      A16S
ATOM  30968  N9  G  A1469     141.819  46.695 -21.883  1.00 68.42      A16S
ATOM  30969  C4  G  A1469     141.950  45.669 -22.787  1.00 68.42      A16S
ATOM  30970  N3  G  A1469     142.468  44.450 -22.528  1.00 68.42      A16S
ATOM  30971  C2  G  A1469     142.492  43.691 -23.603  1.00 68.42      A16S
ATOM  30972  N2  G  A1469     142.969  42.438 -23.520  1.00 68.42      A16S
ATOM  30973  N1  G  A1469     142.051  44.103 -24.837  1.00 68.42      A16S
ATOM  30974  C6  G  A1469     141.527  45.359 -25.122  1.00 68.42      A16S
ATOM  30975  O6  G  A1469     141.189  45.641 -26.272  1.00 68.42      A16S
ATOM  30976  C5  G  A1469     141.477  46.170 -23.979  1.00 68.42      A16S
ATOM  30977  N7  G  A1469     141.019  47.470 -23.822  1.00 68.42      A16S
ATOM  30978  C8  G  A1469     141.234  47.738 -22.562  1.00 68.42      A16S
ATOM  30979  C2* G  A1469     143.797  46.687 -20.458  1.00 57.69      A16S
ATOM  30980  O2* G  A1469     144.242  45.874 -19.387  1.00 57.69      A16S
ATOM  30981  C3* G  A1469     144.073  48.167 -20.232  1.00 57.69      A16S
ATOM  30982  O3* G  A1469     145.359  48.359 -19.664  1.00 57.69      A16S
ATOM  30983  P   G  A1470     146.613  48.627 -20.628  1.00 85.00      A16S
ATOM  30984  O1P G  A1470     147.771  48.900 -19.741  1.00 70.33      A16S
ATOM  30985  O2P G  A1470     146.210  49.633 -21.635  1.00 70.33      A16S
ATOM  30986  O5* G  A1470     146.832  47.229 -21.360  1.00 85.00      A16S
ATOM  30987  C5* G  A1470     147.024  46.038 -20.582  1.00 85.00      A16S
ATOM  30988  C4* G  A1470     147.192  44.826 -21.468  1.00 85.00      A16S
ATOM  30989  O4* G  A1470     145.939  44.473 -22.109  1.00 85.00      A16S
ATOM  30990  C1* G  A1470     146.202  43.873 -23.367  1.00 85.00      A16S
ATOM  30991  N9  G  A1470     145.592  44.691 -24.406  1.00 70.33      A16S
ATOM  30992  C4  G  A1470     145.415  44.334 -25.716  1.00 70.33      A16S
ATOM  30993  N3  G  A1470     145.759  43.155 -26.267  1.00 70.33      A16S
ATOM  30994  C2  G  A1470     145.489  43.119 -27.557  1.00 70.33      A16S
ATOM  30995  N2  G  A1470     145.786  42.024 -28.269  1.00 70.33      A16S
ATOM  30996  N1  G  A1470     144.911  44.155 -28.245  1.00 70.33      A16S
ATOM  30997  C6  G  A1470     144.542  45.375 -27.691  1.00 70.33      A16S
ATOM  30998  O6  G  A1470     144.023  46.242 -28.394  1.00 70.33      A16S
ATOM  30999  C5  G  A1470     144.839  45.430 -26.319  1.00 70.33      A16S
ATOM  31000  N7  G  A1470     144.648  46.453 -25.405  1.00 70.33      A16S
ATOM  31001  C8  G  A1470     145.105  45.969 -24.283  1.00 70.33      A16S
ATOM  31002  C2* G  A1470     147.720  43.813 -23.542  1.00 85.00      A16S
ATOM  31003  O2* G  A1470     148.182  42.532 -23.149  1.00 85.00      A16S
ATOM  31004  C3* G  A1470     148.180  44.931 -22.613  1.00 85.00      A16S
ATOM  31005  O3* G  A1470     149.522  44.764 -22.189  1.00 85.00      A16S
ATOM  31006  P   G  A1471     150.705  45.385 -23.080  1.00 82.86      A16S
ATOM  31007  O1P G  A1471     151.967  45.168 -22.315  1.00 67.60      A16S
ATOM  31008  O2P G  A1471     150.334  46.765 -23.512  1.00 67.60      A16S
ATOM  31009  O5* G  A1471     150.697  44.471 -24.385  1.00 82.86      A16S
ATOM  31010  C5* G  A1471     150.922  43.059 -24.284  1.00 82.86      A16S
ATOM  31011  C4* G  A1471     150.886  42.421 -25.647  1.00 82.86      A16S
ATOM  31012  O4* G  A1471     149.551  42.505 -26.196  1.00 82.86      A16S
ATOM  31013  C1* G  A1471     149.622  42.656 -27.602  1.00 82.86      A16S
ATOM  31014  N9  G  A1471     148.955  43.905 -27.960  1.00 67.60      A16S
ATOM  31015  C4  G  A1471     148.464  44.245 -29.192  1.00 67.60      A16S
ATOM  31016  N3  G  A1471     148.534  43.492 -30.303  1.00 67.60      A16S
ATOM  31017  C2  G  A1471     147.975  44.093 -31.338  1.00 67.60      A16S
ATOM  31018  N2  G  A1471     147.978  43.498 -32.542  1.00 67.60      A16S
ATOM  31019  N1  G  A1471     147.376  45.328 -31.276  1.00 67.60      A16S
ATOM  31020  C6  G  A1471     147.294  46.117 -30.137  1.00 67.60      A16S
ATOM  31021  O6  G  A1471     146.735  47.219 -30.186  1.00 67.60      A16S
ATOM  31022  C5  G  A1471     147.903  45.493 -29.031  1.00 67.60      A16S
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ATOM  31023  N7  G  A1471     148.049  45.936 -27.727  1.00 67.60      A16S
ATOM  31024  C8  G  A1471     148.682  44.965 -27.129  1.00 67.60      A16S
ATOM  31025  C2* G  A1471     151.097  42.611 -27.996  1.00 82.86      A16S
ATOM  31026  O2* G  A1471     151.426  41.274 -28.321  1.00 82.86      A16S
ATOM  31027  C3* G  A1471     151.774  43.047 -26.705  1.00 82.86      A16S
ATOM  31028  O3* G  A1471     153.101  42.559 -26.609  1.00 82.86      A16S
ATOM  31029  P   U  A1472     154.304  43.427 -27.214  1.00 94.11      A16S
ATOM  31030  O1P U  A1472     155.551  42.645 -27.016  1.00110.02      A16S
ATOM  31031  O2P U  A1472     154.213  44.811 -26.673  1.00110.02      A16S
ATOM  31032  O5* U  A1472     153.981  43.468 -28.775  1.00 94.11      A16S
ATOM  31033  C5* U  A1472     154.236  42.317 -29.607  1.00 94.11      A16S
ATOM  31034  C4* U  A1472     153.981  42.641 -31.060  1.00 94.11      A16S
ATOM  31035  O4* U  A1472     152.568  42.892 -31.262  1.00 94.11      A16S
ATOM  31036  C1* U  A1472     152.397  43.864 -32.278  1.00 94.11      A16S
ATOM  31037  N1  U  A1472     151.700  45.028 -31.711  1.00110.02      A16S
ATOM  31038  C6  U  A1472     151.876  45.403 -30.397  1.00110.02      A16S
ATOM  31039  C2  U  A1472     150.873  45.755 -32.553  1.00110.02      A16S
ATOM  31040  O2  U  A1472     150.666  45.447 -33.715  1.00110.02      A16S
ATOM  31041  N3  U  A1472     150.292  46.857 -31.982  1.00110.02      A16S
ATOM  31042  C4  U  A1472     150.437  47.293 -30.685  1.00110.02      A16S
ATOM  31043  O4  U  A1472     149.847  48.311 -30.323  1.00110.02      A16S
ATOM  31044  C5  U  A1472     151.289  46.481 -29.871  1.00110.02      A16S
ATOM  31045  C2* U  A1472     153.784  44.249 -32.794  1.00 94.11      A16S
ATOM  31046  O2* U  A1472     154.092  43.503 -33.953  1.00 94.11      A16S
ATOM  31047  C3* U  A1472     154.665  43.883 -31.610  1.00 94.11      A16S
ATOM  31048  O3* U  A1472     156.007  43.652 -32.007  1.00 94.11      A16S
ATOM  31049  P   A  A1473     156.994  44.902 -32.214  1.00117.60      A16S
ATOM  31050  O1P A  A1473     158.317  44.340 -32.585  1.00 97.55      A16S
ATOM  31051  O2P A  A1473     156.890  45.818 -31.050  1.00 97.55      A16S
ATOM  31052  O5* A  A1473     156.383  45.663 -33.472  1.00117.60      A16S
ATOM  31053  C5* A  A1473     156.715  45.260 -34.810  1.00117.60      A16S
ATOM  31054  C4* A  A1473     156.320  46.337 -35.786  1.00117.60      A16S
ATOM  31055  O4* A  A1473     154.873  46.438 -35.820  1.00117.60      A16S
ATOM  31056  C1* A  A1473     154.490  47.795 -35.978  1.00117.60      A16S
ATOM  31057  N9  A  A1473     153.768  48.212 -34.776  1.00 97.55      A16S
ATOM  31058  C4  A  A1473     152.872  49.249 -34.688  1.00 97.55      A16S
ATOM  31059  N3  A  A1473     152.454  50.052 -35.680  1.00 97.55      A16S
ATOM  31060  C2  A  A1473     151.598  50.958 -35.218  1.00 97.55      A16S
ATOM  31061  N1  A  A1473     151.154  51.143 -33.971  1.00 97.55      A16S
ATOM  31062  C6  A  A1473     151.601  50.323 -32.998  1.00 97.55      A16S
ATOM  31063  N6  A  A1473     151.172  50.520 -31.751  1.00 97.55      A16S
ATOM  31064  C5  A  A1473     152.501  49.312 -33.359  1.00 97.55      A16S
ATOM  31065  N7  A  A1473     153.130  48.320 -32.625  1.00 97.55      A16S
ATOM  31066  C8  A  A1473     153.864  47.693 -33.509  1.00 97.55      A16S
ATOM  31067  C2* A  A1473     155.769  48.617 -36.146  1.00117.60      A16S
ATOM  31068  O2* A  A1473     156.053  48.799 -37.518  1.00117.60      A16S
ATOM  31069  C3* A  A1473     156.789  47.740 -35.433  1.00117.60      A16S
ATOM  31070  O3* A  A1473     158.127  48.008 -35.832  1.00117.60      A16S
ATOM  31071  P   G  A1474     158.947  49.187 -35.105  1.00141.09      A16S
ATOM  31072  O1P G  A1474     160.384  49.025 -35.443  1.00 99.71      A16S
ATOM  31073  O2P G  A1474     158.535  49.248 -33.678  1.00 99.71      A16S
ATOM  31074  O5* G  A1474     158.410  50.506 -35.815  1.00141.09      A16S
ATOM  31075  C5* G  A1474     158.359  50.602 -37.250  1.00141.09      A16S
ATOM  31076  C4* G  A1474     157.411  51.699 -37.666  1.00141.09      A16S
ATOM  31077  O4* G  A1474     156.053  51.354 -37.278  1.00141.09      A16S
ATOM  31078  C1* G  A1474     155.352  52.523 -36.877  1.00141.09      A16S
ATOM  31079  N9  G  A1474     155.009  52.400 -35.460  1.00 99.71      A16S
ATOM  31080  C4  G  A1474     154.005  53.068 -34.797  1.00 99.71      A16S
ATOM  31081  N3  G  A1474     153.120  53.922 -35.350  1.00 99.71      A16S
ATOM  31082  C2  G  A1474     152.291  54.423 -34.451  1.00 99.71      A16S
ATOM  31083  N2  G  A1474     151.339  55.285 -34.831  1.00 99.71      A16S
ATOM  31084  N1  G  A1474     152.333  54.116 -33.112  1.00 99.71      A16S
ATOM  31085  C6  G  A1474     153.238  53.241 -32.520  1.00 99.71      A16S
ATOM  31086  O6  G  A1474     153.198  53.041 -31.300  1.00 99.71      A16S
ATOM  31087  C5  G  A1474     154.124  52.688 -33.474  1.00 99.71      A16S
ATOM  31088  N7  G  A1474     155.159  51.779 -33.313  1.00 99.71      A16S
ATOM  31089  C8  G  A1474     155.650  51.632 -34.513  1.00 99.71      A16S
ATOM  31090  C2* G  A1474     156.289  53.711 -37.098  1.00141.09      A16S
ATOM  31091  O2* G  A1474     156.045  54.298 -38.362  1.00141.09      A16S
ATOM  31092  C3* G  A1474     157.653  53.041 -37.002  1.00141.09      A16S
ATOM  31093  O3* G  A1474     158.687  53.785 -37.616  1.00141.09      A16S
ATOM  31094  P   G  A1475     159.520  54.840 -36.737  1.00176.25      A16S
ATOM  31095  O1P G  A1475     160.591  55.386 -37.609  1.00156.70      A16S
ATOM  31096  O2P G  A1475     159.879  54.208 -35.438  1.00156.70      A16S
ATOM  31097  O5* G  A1475     158.465  55.997 -36.450  1.00176.25      A16S
ATOM  31098  C5* G  A1475     157.852  56.708 -37.538  1.00176.25      A16S
ATOM  31099  C4* G  A1475     156.770  57.627 -37.029  1.00176.25      A16S
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ATOM  31100  O4*  G    A1475     155.680  56.849 -36.471  1.00176.25       A16S
ATOM  31101  C1*  G    A1475     155.074  57.576 -35.415  1.00176.25       A16S
ATOM  31102  N9   G    A1475     155.126  56.786 -34.187  1.00156.70       A16S
ATOM  31103  C4   G    A1475     154.435  57.065 -33.036  1.00156.70       A16S
ATOM  31104  N3   G    A1475     153.583  58.094 -32.864  1.00156.70       A16S
ATOM  31105  C2   G    A1475     153.083  58.122 -31.648  1.00156.70       A16S
ATOM  31106  N2   G    A1475     152.218  59.089 -31.322  1.00156.70       A16S
ATOM  31107  N1   G    A1475     153.393  57.208 -30.666  1.00156.70       A16S
ATOM  31108  C6   G    A1475     154.270  56.137 -30.818  1.00156.70       A16S
ATOM  31109  O6   G    A1475     154.485  55.371 -29.867  1.00156.70       A16S
ATOM  31110  C5   G    A1475     154.815  56.097 -32.131  1.00156.70       A16S
ATOM  31111  N7   G    A1475     155.717  55.213 -32.708  1.00156.70       A16S
ATOM  31112  C8   G    A1475     155.869  55.657 -33.928  1.00156.70       A16S
ATOM  31113  C2*  G    A1475     155.827  58.898 -35.257  1.00176.25       A16S
ATOM  31114  O2*  G    A1475     155.125  59.939 -35.908  1.00176.25       A16S
ATOM  31115  C3*  G    A1475     157.165  58.572 -35.908  1.00176.25       A16S
ATOM  31116  O3*  G    A1475     157.824  59.734 -36.382  1.00176.25       A16S
ATOM  31117  P    G    A1476     158.844  60.512 -35.416  1.00150.88       A16S
ATOM  31118  O1P  G    A1476     159.624  61.434 -36.278  1.00108.45       A16S
ATOM  31119  O2P  G    A1476     159.555  59.519 -34.565  1.00108.45       A16S
ATOM  31120  O5*  G    A1476     157.898  61.379 -34.472  1.00150.88       A16S
ATOM  31121  C5*  G    A1476     157.200  62.525 -34.988  1.00150.88       A16S
ATOM  31122  C4*  G    A1476     156.401  63.196 -33.897  1.00150.88       A16S
ATOM  31123  O4*  G    A1476     155.382  62.283 -33.413  1.00150.88       A16S
ATOM  31124  C1*  G    A1476     155.150  62.516 -32.033  1.00150.88       A16S
ATOM  31125  N9   G    A1476     155.503  61.314 -31.286  1.00108.45       A16S
ATOM  31126  C4   G    A1476     155.064  60.988 -30.028  1.00108.45       A16S
ATOM  31127  N3   G    A1476     154.207  61.712 -29.277  1.00108.45       A16S
ATOM  31128  C2   G    A1476     153.977  61.146 -28.104  1.00108.45       A16S
ATOM  31129  N2   G    A1476     153.138  61.731 -27.235  1.00108.45       A16S
ATOM  31130  N1   G    A1476     154.551  59.964 -27.698  1.00108.45       A16S
ATOM  31131  C6   G    A1476     155.436  59.200 -28.455  1.00108.45       A16S
ATOM  31132  O6   G    A1476     155.893  58.141 -27.995  1.00108.45       A16S
ATOM  31133  C5   G    A1476     155.687  59.798 -29.720  1.00108.45       A16S
ATOM  31134  N7   G    A1476     156.494  59.380 -30.768  1.00108.45       A16S
ATOM  31135  C8   G    A1476     156.351  60.306 -31.675  1.00108.45       A16S
ATOM  31136  C2*  G    A1476     156.042  63.676 -31.603  1.00150.88       A16S
ATOM  31137  O2*  G    A1476     155.314  64.887 -31.657  1.00150.88       A16S
ATOM  31138  C3*  G    A1476     157.154  63.600 -32.639  1.00150.88       A16S
ATOM  31139  O3*  G    A1476     157.842  64.833 -32.751  1.00150.88       A16S
ATOM  31140  P    C    A1477     159.031  65.164 -31.722  1.00146.20       A16S
ATOM  31141  O1P  C    A1477     159.537  66.514 -32.072  1.00106.22       A16S
ATOM  31142  O2P  C    A1477     159.968  64.013 -31.681  1.00106.22       A16S
ATOM  31143  O5*  C    A1477     158.315  65.235 -30.300  1.00146.20       A16S
ATOM  31144  C5*  C    A1477     157.393  66.297 -29.991  1.00146.20       A16S
ATOM  31145  C4*  C    A1477     156.920  66.195 -28.558  1.00146.20       A16S
ATOM  31146  O4*  C    A1477     156.130  64.987 -28.383  1.00146.20       A16S
ATOM  31147  C1*  C    A1477     156.327  64.474 -27.072  1.00146.20       A16S
ATOM  31148  N1   C    A1477     156.962  63.143 -27.165  1.00106.22       A16S
ATOM  31149  C6   C    A1477     157.729  62.799 -28.246  1.00106.22       A16S
ATOM  31150  C2   C    A1477     156.788  62.234 -26.106  1.00106.22       A16S
ATOM  31151  O2   C    A1477     156.070  62.556 -25.145  1.00106.22       A16S
ATOM  31152  N3   C    A1477     157.407  61.032 -26.159  1.00106.22       A16S
ATOM  31153  C4   C    A1477     158.170  60.719 -27.211  1.00106.22       A16S
ATOM  31154  N4   C    A1477     158.779  59.531 -27.211  1.00106.22       A16S
ATOM  31155  C5   C    A1477     158.347  61.613 -28.307  1.00106.22       A16S
ATOM  31156  C2*  C    A1477     157.242  65.449 -26.334  1.00146.20       A16S
ATOM  31157  O2*  C    A1477     156.462  66.381 -25.610  1.00146.20       A16S
ATOM  31158  C3*  C    A1477     157.997  66.085 -27.491  1.00146.20       A16S
ATOM  31159  O3*  C    A1477     158.586  67.325 -27.136  1.00146.20       A16S
ATOM  31160  P    C    A1478     159.990  67.332 -26.348  1.00141.73       A16S
ATOM  31161  O1P  C    A1478     160.477  68.733 -26.309  1.00120.52       A16S
ATOM  31162  O2P  C    A1478     160.867  66.270 -26.900  1.00120.52       A16S
ATOM  31163  O5*  C    A1478     159.586  66.903 -24.870  1.00141.73       A16S
ATOM  31164  C5*  C    A1478     158.609  67.656 -24.131  1.00141.73       A16S
ATOM  31165  C4*  C    A1478     158.324  66.988 -22.811  1.00141.73       A16S
ATOM  31166  O4*  C    A1478     157.643  65.727 -23.031  1.00141.73       A16S
ATOM  31167  C1*  C    A1478     158.082  64.775 -22.073  1.00141.73       A16S
ATOM  31168  N1   C    A1478     158.748  63.659 -22.777  1.00120.52       A16S
ATOM  31169  C6   C    A1478     159.290  63.832 -24.022  1.00120.52       A16S
ATOM  31170  C2   C    A1478     158.826  62.410 -22.143  1.00120.52       A16S
ATOM  31171  O2   C    A1478     158.318  62.271 -21.016  1.00120.52       A16S
ATOM  31172  N3   C    A1478     159.449  61.387 -22.774  1.00120.52       A16S
ATOM  31173  C4   C    A1478     159.977  61.571 -23.986  1.00120.52       A16S
ATOM  31174  N4   C    A1478     160.586  60.535 -24.569  1.00120.52       A16S
ATOM  31175  C5   C    A1478     159.906  62.826 -24.655  1.00120.52       A16S
ATOM  31176  C2*  C    A1478     159.044  65.489 -21.125  1.00141.73       A16S
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ATOM  31177  O2* C   A1478     158.336  65.970 -19.999  1.00141.73      A16S
ATOM  31178  C3* C   A1478     159.554  66.613 -22.009  1.00141.73      A16S
ATOM  31179  O3* C   A1478     160.074  67.696 -21.269  1.00141.73      A16S
ATOM  31180  P   C   A1479     161.642  67.733 -20.944  1.00118.73      A16S
ATOM  31181  O1P C   A1479     161.915  69.047 -20.304  1.00112.04      A16S
ATOM  31182  O2P C   A1479     162.382  67.341 -22.175  1.00112.04      A16S
ATOM  31183  O5* C   A1479     161.832  66.577 -19.864  1.00118.73      A16S
ATOM  31184  C5* C   A1479     161.025  66.550 -18.671  1.00118.73      A16S
ATOM  31185  C4* C   A1479     161.243  65.264 -17.911  1.00118.73      A16S
ATOM  31186  O4* C   A1479     160.765  64.137 -18.687  1.00118.73      A16S
ATOM  31187  C1* C   A1479     161.558  62.996 -18.404  1.00118.73      A16S
ATOM  31188  N1  C   A1479     162.120  62.458 -19.661  1.00112.04      A16S
ATOM  31189  C6  C   A1479     161.942  63.101 -20.857  1.00112.04      A16S
ATOM  31190  C2  C   A1479     162.845  61.255 -19.608  1.00112.04      A16S
ATOM  31191  O2  C   A1479     163.007  60.698 -18.509  1.00112.04      A16S
ATOM  31192  N3  C   A1479     163.348  60.735 -20.751  1.00112.04      A16S
ATOM  31193  C4  C   A1479     163.158  61.365 -21.912  1.00112.04      A16S
ATOM  31194  N4  C   A1479     163.664  60.806 -23.016  1.00112.04      A16S
ATOM  31195  C5  C   A1479     162.439  62.595 -21.995  1.00112.04      A16S
ATOM  31196  C2* C   A1479     162.629  63.404 -17.392  1.00118.73      A16S
ATOM  31197  O2* C   A1479     162.209  63.014 -16.102  1.00118.73      A16S
ATOM  31198  C3* C   A1479     162.683  64.914 -17.581  1.00118.73      A16S
ATOM  31199  O3* C   A1479     163.124  65.578 -16.408  1.00118.73      A16S
ATOM  31200  P   G   A1480     164.673  65.965 -16.254  1.00148.51      A16S
ATOM  31201  O1P G   A1480     164.753  67.019 -15.207  1.00 89.78      A16S
ATOM  31202  O2P G   A1480     165.225  66.221 -17.615  1.00 89.78      A16S
ATOM  31203  O5* G   A1480     165.349  64.640 -15.690  1.00148.51      A16S
ATOM  31204  C5* G   A1480     165.046  64.159 -14.369  1.00148.51      A16S
ATOM  31205  C4* G   A1480     165.661  62.798 -14.163  1.00148.51      A16S
ATOM  31206  O4* G   A1480     165.071  61.865 -15.105  1.00148.51      A16S
ATOM  31207  C1* G   A1480     166.059  60.967 -15.576  1.00148.51      A16S
ATOM  31208  N9  G   A1480     166.206  61.173 -17.013  1.00 89.78      A16S
ATOM  31209  C4  G   A1480     166.773  60.303 -17.913  1.00 89.78      A16S
ATOM  31210  N3  G   A1480     167.281  59.088 -17.629  1.00 89.78      A16S
ATOM  31211  C2  G   A1480     167.766  58.493 -18.706  1.00 89.78      A16S
ATOM  31212  N2  G   A1480     168.306  57.274 -18.608  1.00 89.78      A16S
ATOM  31213  N1  G   A1480     167.758  59.047 -19.960  1.00 89.78      A16S
ATOM  31214  C6  G   A1480     167.247  60.301 -20.277  1.00 89.78      A16S
ATOM  31215  O6  G   A1480     167.310  60.718 -21.445  1.00 89.78      A16S
ATOM  31216  C5  G   A1480     166.712  60.947 -19.133  1.00 89.78      A16S
ATOM  31217  N7  G   A1480     166.109  62.190 -19.004  1.00 89.78      A16S
ATOM  31218  C8  G   A1480     165.823  62.280 -17.733  1.00 89.78      A16S
ATOM  31219  C2* G   A1480     167.357  61.268 -14.825  1.00148.51      A16S
ATOM  31220  O2* G   A1480     167.470  60.401 -13.714  1.00148.51      A16S
ATOM  31221  C3* G   A1480     167.154  62.727 -14.435  1.00148.51      A16S
ATOM  31222  O3* G   A1480     167.917  63.116 -13.298  1.00148.51      A16S
ATOM  31223  P   U   A1481     169.374  63.767 -13.504  1.00112.90      A16S
ATOM  31224  O1P U   A1481     169.937  64.030 -12.150  1.00 99.25      A16S
ATOM  31225  O2P U   A1481     169.271  64.882 -14.486  1.00 99.25      A16S
ATOM  31226  O5* U   A1481     170.216  62.597 -14.181  1.00112.90      A16S
ATOM  31227  C5* U   A1481     170.375  61.330 -13.522  1.00112.90      A16S
ATOM  31228  C4* U   A1481     171.072  60.350 -14.430  1.00112.90      A16S
ATOM  31229  O4* U   A1481     170.214  59.997 -15.548  1.00112.90      A16S
ATOM  31230  C1* U   A1481     171.015  59.714 -16.686  1.00112.90      A16S
ATOM  31231  N1  U   A1481     170.569  60.529 -17.832  1.00 99.25      A16S
ATOM  31232  C6  U   A1481     169.885  61.719 -17.671  1.00 99.25      A16S
ATOM  31233  C2  U   A1481     170.883  60.059 -19.104  1.00 99.25      A16S
ATOM  31234  O2  U   A1481     171.464  59.000 -19.298  1.00 99.25      A16S
ATOM  31235  N3  U   A1481     170.490  60.871 -20.140  1.00 99.25      A16S
ATOM  31236  C4  U   A1481     169.818  62.070 -20.048  1.00 99.25      A16S
ATOM  31237  O4  U   A1481     169.488  62.655 -21.084  1.00 99.25      A16S
ATOM  31238  C5  U   A1481     169.513  62.485 -18.707  1.00 99.25      A16S
ATOM  31239  C2* U   A1481     172.479  59.956 -16.307  1.00112.90      A16S
ATOM  31240  O2* U   A1481     173.103  58.720 -16.034  1.00112.90      A16S
ATOM  31241  C3* U   A1481     172.344  60.857 -15.084  1.00112.90      A16S
ATOM  31242  O3* U   A1481     173.457  60.783 -14.206  1.00112.90      A16S
ATOM  31243  P   G   A1482     174.637  61.869 -14.336  1.00101.71      A16S
ATOM  31244  O1P G   A1482     175.624  61.605 -13.255  1.00127.82      A16S
ATOM  31245  O2P G   A1482     174.024  63.218 -14.453  1.00127.82      A16S
ATOM  31246  O5* G   A1482     175.311  61.507 -15.733  1.00101.71      A16S
ATOM  31247  C5* G   A1482     175.817  60.185 -15.977  1.00101.71      A16S
ATOM  31248  C4* G   A1482     176.148  60.013 -17.434  1.00101.71      A16S
ATOM  31249  O4* G   A1482     174.935  59.999 -18.223  1.00101.71      A16S
ATOM  31250  C1* G   A1482     175.167  60.643 -19.468  1.00101.71      A16S
ATOM  31251  N9  G   A1482     174.277  61.800 -19.553  1.00127.82      A16S
ATOM  31252  C4  G   A1482     173.720  62.335 -20.691  1.00127.82      A16S
ATOM  31253  N3  G   A1482     173.911  61.899 -21.951  1.00127.82      A16S
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ATOM  31254  C2  G  A1482     173.239  62.623 -22.829  1.00127.82      A16S
ATOM  31255  N2  G  A1482     173.329  62.348 -24.132  1.00127.82      A16S
ATOM  31256  N1  G  A1482     172.433  63.677 -22.497  1.00127.82      A16S
ATOM  31257  C6  G  A1482     172.215  64.141 -21.207  1.00127.82      A16S
ATOM  31258  O6  G  A1482     171.455  65.103 -21.015  1.00127.82      A16S
ATOM  31259  C5  G  A1482     172.943  63.388 -20.256  1.00127.82      A16S
ATOM  31260  N7  G  A1482     173.023  63.524 -18.878  1.00127.82      A16S
ATOM  31261  C8  G  A1482     173.824  62.565 -18.504  1.00127.82      A16S
ATOM  31262  C2* G  A1482     176.645  61.033 -19.517  1.00101.71      A16S
ATOM  31263  O2* G  A1482     177.392  60.018 -20.161  1.00101.71      A16S
ATOM  31264  C3* G  A1482     176.981  61.127 -18.036  1.00101.71      A16S
ATOM  31265  O3* G  A1482     178.358  60.934 -17.792  1.00101.71      A16S
ATOM  31266  P   A  A1483     179.363  62.176 -17.915  1.00101.88      A16S
ATOM  31267  O1P A  A1483     179.946  62.404 -16.568  1.00126.27      A16S
ATOM  31268  O2P A  A1483     178.669  63.290 -18.609  1.00126.27      A16S
ATOM  31269  O5* A  A1483     180.496  61.622 -18.886  1.00101.88      A16S
ATOM  31270  C5* A  A1483     181.234  60.435 -18.544  1.00101.88      A16S
ATOM  31271  C4* A  A1483     181.881  59.845 -19.770  1.00101.88      A16S
ATOM  31272  O4* A  A1483     180.871  59.292 -20.650  1.00101.88      A16S
ATOM  31273  C1* A  A1483     181.271  59.462 -21.998  1.00101.88      A16S
ATOM  31274  N9  A  A1483     180.256  60.255 -22.689  1.00126.27      A16S
ATOM  31275  C4  A  A1483     180.109  60.362 -24.050  1.00126.27      A16S
ATOM  31276  N3  A  A1483     180.841  59.756 -24.998  1.00126.27      A16S
ATOM  31277  C2  A  A1483     180.411  60.097 -26.210  1.00126.27      A16S
ATOM  31278  N1  A  A1483     179.409  60.914 -26.556  1.00126.27      A16S
ATOM  31279  C6  A  A1483     178.697  61.506 -25.578  1.00126.27      A16S
ATOM  31280  N6  A  A1483     177.703  62.322 -25.922  1.00126.27      A16S
ATOM  31281  C5  A  A1483     179.050  61.226 -24.249  1.00126.27      A16S
ATOM  31282  N7  A  A1483     178.533  61.654 -23.036  1.00126.27      A16S
ATOM  31283  C8  A  A1483     179.278  61.049 -22.145  1.00126.27      A16S
ATOM  31284  C2* A  A1483     182.635  60.158 -21.998  1.00101.88      A16S
ATOM  31285  O2* A  A1483     183.664  59.203 -22.146  1.00101.88      A16S
ATOM  31286  C3* A  A1483     182.644  60.831 -20.633  1.00101.88      A16S
ATOM  31287  O3* A  A1483     183.957  61.048 -20.144  1.00101.88      A16S
ATOM  31288  P   C  A1484     184.541  62.544 -20.075  1.00 92.12      A16S
ATOM  31289  O1P C  A1484     186.001  62.440 -19.819  1.00104.61      A16S
ATOM  31290  O2P C  A1484     183.686  63.332 -19.150  1.00104.61      A16S
ATOM  31291  O5* C  A1484     184.356  63.093 -21.558  1.00 92.12      A16S
ATOM  31292  C5* C  A1484     184.980  62.418 -22.656  1.00 92.12      A16S
ATOM  31293  C4* C  A1484     184.479  62.965 -23.965  1.00 92.12      A16S
ATOM  31294  O4* C  A1484     183.082  62.623 -24.139  1.00 92.12      A16S
ATOM  31295  C1* C  A1484     182.415  63.675 -24.825  1.00 92.12      A16S
ATOM  31296  N1  C  A1484     181.394  64.261 -23.923  1.00104.61      A16S
ATOM  31297  C6  C  A1484     181.258  63.821 -22.634  1.00104.61      A16S
ATOM  31298  C2  C  A1484     180.576  65.301 -24.401  1.00104.61      A16S
ATOM  31299  O2  C  A1484     180.681  65.660 -25.588  1.00104.61      A16S
ATOM  31300  N3  C  A1484     179.693  65.881 -23.557  1.00104.61      A16S
ATOM  31301  C4  C  A1484     179.592  65.455 -22.296  1.00104.61      A16S
ATOM  31302  N4  C  A1484     178.726  66.071 -21.496  1.00104.61      A16S
ATOM  31303  C5  C  A1484     180.379  64.384 -21.798  1.00104.61      A16S
ATOM  31304  C2* C  A1484     183.475  64.714 -25.194  1.00 92.12      A16S
ATOM  31305  O2* C  A1484     183.976  64.465 -26.496  1.00 92.12      A16S
ATOM  31306  C3* C  A1484     184.514  64.473 -24.112  1.00 92.12      A16S
ATOM  31307  O3* C  A1484     185.787  64.972 -24.470  1.00 92.12      A16S
ATOM  31308  P   U  A1485     186.289  66.356 -23.829  1.00103.77      A16S
ATOM  31309  O1P U  A1485     187.629  66.645 -24.405  1.00 96.83      A16S
ATOM  31310  O2P U  A1485     186.122  66.256 -22.348  1.00 96.83      A16S
ATOM  31311  O5* U  A1485     185.252  67.439 -24.381  1.00103.77      A16S
ATOM  31312  C5* U  A1485     185.044  67.595 -25.796  1.00103.77      A16S
ATOM  31313  C4* U  A1485     183.818  68.442 -26.079  1.00103.77      A16S
ATOM  31314  O4* U  A1485     182.633  67.824 -25.509  1.00103.77      A16S
ATOM  31315  C1* U  A1485     181.668  68.827 -25.241  1.00103.77      A16S
ATOM  31316  N1  U  A1485     181.237  68.748 -23.839  1.00 96.83      A16S
ATOM  31317  C6  U  A1485     181.961  68.073 -22.888  1.00 96.83      A16S
ATOM  31318  C2  U  A1485     180.065  69.408 -23.501  1.00 96.83      A16S
ATOM  31319  O2  U  A1485     179.375  69.996 -24.317  1.00 96.83      A16S
ATOM  31320  N3  U  A1485     179.729  69.355 -22.174  1.00 96.83      A16S
ATOM  31321  C4  U  A1485     180.417  68.719 -21.168  1.00 96.83      A16S
ATOM  31322  O4  U  A1485     180.001  68.794 -20.009  1.00 96.83      A16S
ATOM  31323  C5  U  A1485     181.603  68.037 -21.597  1.00 96.83      A16S
ATOM  31324  C2* U  A1485     182.294  70.185 -25.558  1.00103.77      A16S
ATOM  31325  O2* U  A1485     181.841  70.634 -26.818  1.00103.77      A16S
ATOM  31326  C3* U  A1485     183.785  69.864 -25.539  1.00103.77      A16S
ATOM  31327  O3* U  A1485     184.507  70.787 -26.350  1.00103.77      A16S
ATOM  31328  P   G  A1486     184.918  72.226 -25.747  1.00 81.05      A16S
ATOM  31329  O1P G  A1486     185.975  72.775 -26.642  1.00 61.29      A16S
ATOM  31330  O2P G  A1486     185.181  72.099 -24.288  1.00 61.29      A16S
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ATOM  31331  O5* G   A1486     183.608  73.122 -25.902  1.00 81.05      A16S
ATOM  31332  C5* G   A1486     183.262  73.698 -27.173  1.00 81.05      A16S
ATOM  31333  C4* G   A1486     182.115  74.671 -27.027  1.00 81.05      A16S
ATOM  31334  O4* G   A1486     180.956  73.984 -26.495  1.00 81.05      A16S
ATOM  31335  C1* G   A1486     180.177  74.894 -25.735  1.00 81.05      A16S
ATOM  31336  N9  G   A1486     180.077  74.407 -24.364  1.00 61.29      A16S
ATOM  31337  C4  G   A1486     179.163  74.827 -23.437  1.00 61.29      A16S
ATOM  31338  N3  G   A1486     178.194  75.738 -23.649  1.00 61.29      A16S
ATOM  31339  C2  G   A1486     177.477  75.948 -22.568  1.00 61.29      A16S
ATOM  31340  N2  G   A1486     176.466  76.822 -22.607  1.00 61.29      A16S
ATOM  31341  N1  G   A1486     177.697  75.314 -21.366  1.00 61.29      A16S
ATOM  31342  C6  G   A1486     178.694  74.376 -21.125  1.00 61.29      A16S
ATOM  31343  O6  G   A1486     178.810  73.870 -19.999  1.00 61.29      A16S
ATOM  31344  C5  G   A1486     179.466  74.139 -22.284  1.00 61.29      A16S
ATOM  31345  N7  G   A1486     180.544  73.289 -22.488  1.00 61.29      A16S
ATOM  31346  C8  G   A1486     180.871  73.479 -23.736  1.00 61.29      A16S
ATOM  31347  C2* G   A1486     180.879  76.249 -25.762  1.00 81.05      A16S
ATOM  31348  O2* G   A1486     180.316  77.070 -26.763  1.00 81.05      A16S
ATOM  31349  C3* G   A1486     182.307  75.841 -26.077  1.00 81.05      A16S
ATOM  31350  O3* G   A1486     183.019  76.908 -26.661  1.00 81.05      A16S
ATOM  31351  P   G   A1487     184.317  77.477 -25.915  1.00 56.62      A16S
ATOM  31352  O1P G   A1487     185.140  78.175 -26.936  1.00 55.51      A16S
ATOM  31353  O2P G   A1487     184.899  76.366 -25.123  1.00 55.51      A16S
ATOM  31354  O5* G   A1487     183.768  78.558 -24.887  1.00 56.62      A16S
ATOM  31355  C5* G   A1487     183.466  79.892 -25.320  1.00 56.62      A16S
ATOM  31356  C4* G   A1487     182.077  80.290 -24.869  1.00 56.62      A16S
ATOM  31357  O4* G   A1487     181.258  79.106 -24.665  1.00 56.62      A16S
ATOM  31358  C1* G   A1487     180.283  79.362 -23.676  1.00 56.62      A16S
ATOM  31359  N9  G   A1487     180.462  78.415 -22.583  1.00 55.51      A16S
ATOM  31360  C4  G   A1487     179.679  78.320 -21.455  1.00 55.51      A16S
ATOM  31361  N3  G   A1487     178.583  79.057 -21.188  1.00 55.51      A16S
ATOM  31362  C2  G   A1487     178.054  78.745 -20.024  1.00 55.51      A16S
ATOM  31363  N2  G   A1487     176.941  79.361 -19.614  1.00 55.51      A16S
ATOM  31364  N1  G   A1487     178.568  77.803 -19.176  1.00 55.51      A16S
ATOM  31365  C6  G   A1487     179.694  77.039 -19.422  1.00 55.51      A16S
ATOM  31366  O6  G   A1487     180.074  76.225 -18.579  1.00 55.51      A16S
ATOM  31367  C5  G   A1487     180.264  77.344 -20.684  1.00 55.51      A16S
ATOM  31368  N7  G   A1487     181.371  76.809 -21.327  1.00 55.51      A16S
ATOM  31369  C8  G   A1487     181.445  77.470 -22.450  1.00 55.51      A16S
ATOM  31370  C2* G   A1487     180.483  80.802 -23.218  1.00 56.62      A16S
ATOM  31371  O2* G   A1487     179.659  81.618 -24.019  1.00 56.62      A16S
ATOM  31372  C3* G   A1487     181.943  81.041 -23.561  1.00 56.62      A16S
ATOM  31373  O3* G   A1487     182.184  82.421 -23.760  1.00 56.62      A16S
ATOM  31374  P   G   A1488     182.527  83.356 -22.500  1.00 46.53      A16S
ATOM  31375  O1P G   A1488     182.570  84.754 -23.036  1.00 58.77      A16S
ATOM  31376  O2P G   A1488     183.710  82.805 -21.755  1.00 58.77      A16S
ATOM  31377  O5* G   A1488     181.252  83.199 -21.555  1.00 46.53      A16S
ATOM  31378  C5* G   A1488     179.990  83.765 -21.923  1.00 46.53      A16S
ATOM  31379  C4* G   A1488     178.999  83.624 -20.796  1.00 46.53      A16S
ATOM  31380  O4* G   A1488     178.809  82.228 -20.459  1.00 46.53      A16S
ATOM  31381  C1* G   A1488     178.483  82.112 -19.086  1.00 46.53      A16S
ATOM  31382  N9  G   A1488     179.423  81.184 -18.460  1.00 58.77      A16S
ATOM  31383  C4  G   A1488     179.366  80.688 -17.174  1.00 58.77      A16S
ATOM  31384  N3  G   A1488     178.424  80.974 -16.246  1.00 58.77      A16S
ATOM  31385  C2  G   A1488     178.661  80.357 -15.094  1.00 58.77      A16S
ATOM  31386  N2  G   A1488     177.837  80.535 -14.053  1.00 58.77      A16S
ATOM  31387  N1  G   A1488     179.728  79.524 -14.880  1.00 58.77      A16S
ATOM  31388  C6  G   A1488     180.703  79.215 -15.821  1.00 58.77      A16S
ATOM  31389  O6  G   A1488     181.627  78.456 -15.522  1.00 58.77      A16S
ATOM  31390  C5  G   A1488     180.467  79.868 -17.052  1.00 58.77      A16S
ATOM  31391  N7  G   A1488     181.193  79.838 -18.232  1.00 58.77      A16S
ATOM  31392  C8  G   A1488     180.539  80.632 -19.035  1.00 58.77      A16S
ATOM  31393  C2* G   A1488     178.504  83.520 -18.488  1.00 46.53      A16S
ATOM  31394  O2* G   A1488     177.194  84.061 -18.486  1.00 46.53      A16S
ATOM  31395  C3* G   A1488     179.383  84.261 -19.480  1.00 46.53      A16S
ATOM  31396  O3* G   A1488     179.108  85.644 -19.483  1.00 46.53      A16S
ATOM  31397  P   G   A1489     180.017  86.625 -18.600  1.00 42.03      A16S
ATOM  31398  O1P G   A1489     179.797  88.012 -19.087  1.00 48.48      A16S
ATOM  31399  O2P G   A1489     181.407  86.069 -18.556  1.00 48.48      A16S
ATOM  31400  O5* G   A1489     179.395  86.479 -17.146  1.00 42.03      A16S
ATOM  31401  C5* G   A1489     178.042  86.836 -16.894  1.00 42.03      A16S
ATOM  31402  C4* G   A1489     177.652  86.395 -15.514  1.00 42.03      A16S
ATOM  31403  O4* G   A1489     177.751  84.958 -15.443  1.00 42.03      A16S
ATOM  31404  C1* G   A1489     178.149  84.577 -14.146  1.00 42.03      A16S
ATOM  31405  N9  G   A1489     179.349  83.761 -14.260  1.00 48.48      A16S
ATOM  31406  C4  G   A1489     179.905  82.966 -13.281  1.00 48.48      A16S
ATOM  31407  N3  G   A1489     179.450  82.818 -12.018  1.00 48.48      A16S
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ATOM  31408  C2  G   A1489     180.200  81.981 -11.318  1.00 48.48      A16S
ATOM  31409  N2  G   A1489     179.906  81.731 -10.037  1.00 48.48      A16S
ATOM  31410  N1  G   A1489     181.296  81.332 -11.823  1.00 48.48      A16S
ATOM  31411  C6  G   A1489     181.770  81.462 -13.122  1.00 48.48      A16S
ATOM  31412  O6  G   A1489     182.750  80.811 -13.487  1.00 48.48      A16S
ATOM  31413  C5  G   A1489     180.992  82.370 -13.872  1.00 48.48      A16S
ATOM  31414  N7  G   A1489     181.129  82.792 -15.184  1.00 48.48      A16S
ATOM  31415  C8  G   A1489     180.137  83.618 -15.367  1.00 48.48      A16S
ATOM  31416  C2* G   A1489     178.331  85.847 -13.314  1.00 42.03      A16S
ATOM  31417  O2* G   A1489     177.142  86.077 -12.588  1.00 42.03      A16S
ATOM  31418  C3* G   A1489     178.539  86.894 -14.391  1.00 42.03      A16S
ATOM  31419  O3* G   A1489     178.134  88.176 -13.949  1.00 42.03      A16S
ATOM  31420  P   C   A1490     179.237  89.201 -13.405  1.00 35.77      A16S
ATOM  31421  O1P C   A1490     178.567  90.483 -13.098  1.00 53.12      A16S
ATOM  31422  O2P C   A1490     180.356  89.188 -14.373  1.00 53.12      A16S
ATOM  31423  O5* C   A1490     179.729  88.507 -12.060  1.00 35.77      A16S
ATOM  31424  C5* C   A1490     178.843  88.387 -10.950  1.00 35.77      A16S
ATOM  31425  C4* C   A1490     179.449  87.541  -9.861  1.00 35.77      A16S
ATOM  31426  O4* C   A1490     179.562  86.164 -10.309  1.00 35.77      A16S
ATOM  31427  C1* C   A1490     180.679  85.551  -9.678  1.00 35.77      A16S
ATOM  31428  N1  C   A1490     181.644  85.120 -10.701  1.00 53.12      A16S
ATOM  31429  C6  C   A1490     181.738  85.756 -11.906  1.00 53.12      A16S
ATOM  31430  C2  C   A1490     182.502  84.064 -10.395  1.00 53.12      A16S
ATOM  31431  O2  C   A1490     182.364  83.476  -9.312  1.00 53.12      A16S
ATOM  31432  N3  C   A1490     183.455  83.706 -11.282  1.00 53.12      A16S
ATOM  31433  C4  C   A1490     183.558  84.351 -12.440  1.00 53.12      A16S
ATOM  31434  N4  C   A1490     184.525  83.975 -13.275  1.00 53.12      A16S
ATOM  31435  C5  C   A1490     182.676  85.411 -12.793  1.00 53.12      A16S
ATOM  31436  C2* C   A1490     181.347  86.600  -8.784  1.00 35.77      A16S
ATOM  31437  O2* C   A1490     180.997  86.418  -7.424  1.00 35.77      A16S
ATOM  31438  C3* C   A1490     180.858  87.894  -9.423  1.00 35.77      A16S
ATOM  31439  O3* C   A1490     180.959  89.010  -8.564  1.00 35.77      A16S
ATOM  31440  P   G   A1491     182.344  89.820  -8.508  1.00 43.93      A16S
ATOM  31441  O1P G   A1491     182.114  91.051  -7.710  1.00 58.54      A16S
ATOM  31442  O2P G   A1491     182.909  89.944  -9.874  1.00 58.54      A16S
ATOM  31443  O5* G   A1491     183.265  88.836  -7.666  1.00 43.93      A16S
ATOM  31444  C5* G   A1491     182.933  88.521  -6.311  1.00 43.93      A16S
ATOM  31445  C4* G   A1491     183.940  87.563  -5.728  1.00 43.93      A16S
ATOM  31446  O4* G   A1491     183.875  86.289  -6.431  1.00 43.93      A16S
ATOM  31447  C1* G   A1491     185.165  85.696  -6.462  1.00 43.93      A16S
ATOM  31448  N9  G   A1491     185.591  85.585  -7.856  1.00 58.54      A16S
ATOM  31449  C4  G   A1491     186.601  84.793  -8.354  1.00 58.54      A16S
ATOM  31450  N3  G   A1491     187.368  83.948  -7.648  1.00 58.54      A16S
ATOM  31451  C2  G   A1491     188.280  83.366  -8.402  1.00 58.54      A16S
ATOM  31452  N2  G   A1491     189.128  82.484  -7.868  1.00 58.54      A16S
ATOM  31453  N1  G   A1491     188.431  83.599  -9.730  1.00 58.54      A16S
ATOM  31454  C6  G   A1491     187.658  84.468 -10.474  1.00 58.54      A16S
ATOM  31455  O6  G   A1491     187.900  84.630 -11.668  1.00 58.54      A16S
ATOM  31456  C5  G   A1491     186.665  85.084  -9.690  1.00 58.54      A16S
ATOM  31457  N7  G   A1491     185.698  86.009 -10.039  1.00 58.54      A16S
ATOM  31458  C8  G   A1491     185.085  86.275  -8.922  1.00 58.54      A16S
ATOM  31459  C2* G   A1491     186.097  86.606  -5.658  1.00 43.93      A16S
ATOM  31460  O2* G   A1491     186.106  86.139  -4.318  1.00 43.93      A16S
ATOM  31461  C3* G   A1491     185.408  87.957  -5.794  1.00 43.93      A16S
ATOM  31462  O3* G   A1491     185.770  88.851  -4.755  1.00 43.93      A16S
ATOM  31463  P   A   A1492     186.371  90.296  -5.125  1.00 56.49      A16S
ATOM  31464  O1P A   A1492     185.894  91.245  -4.090  1.00 32.10      A16S
ATOM  31465  O2P A   A1492     186.132  90.608  -6.551  1.00 32.10      A16S
ATOM  31466  O5* A   A1492     187.942  90.129  -4.936  1.00 56.49      A16S
ATOM  31467  C5* A   A1492     188.590  90.580  -3.731  1.00 56.49      A16S
ATOM  31468  C4* A   A1492     189.623  91.638  -4.050  1.00 56.49      A16S
ATOM  31469  O4* A   A1492     189.784  92.504  -2.907  1.00 56.49      A16S
ATOM  31470  C1* A   A1492     191.139  92.828  -2.731  1.00 56.49      A16S
ATOM  31471  N9  A   A1492     191.484  92.358  -1.393  1.00 32.10      A16S
ATOM  31472  C4  A   A1492     191.941  93.111  -0.335  1.00 32.10      A16S
ATOM  31473  N3  A   A1492     192.259  94.417  -0.331  1.00 32.10      A16S
ATOM  31474  C2  A   A1492     192.616  94.809   0.892  1.00 32.10      A16S
ATOM  31475  N1  A   A1492     192.666  94.107   2.022  1.00 32.10      A16S
ATOM  31476  C6  A   A1492     192.318  92.809   1.988  1.00 32.10      A16S
ATOM  31477  N6  A   A1492     192.302  92.125   3.128  1.00 32.10      A16S
ATOM  31478  C5  A   A1492     191.961  92.258   0.752  1.00 32.10      A16S
ATOM  31479  N7  A   A1492     191.584  90.977   0.378  1.00 32.10      A16S
ATOM  31480  C8  A   A1492     191.327  91.086  -0.904  1.00 32.10      A16S
ATOM  31481  C2* A   A1492     191.919  92.265  -3.926  1.00 56.49      A16S
ATOM  31482  O2* A   A1492     192.022  93.289  -4.890  1.00 56.49      A16S
ATOM  31483  C3* A   A1492     191.010  91.134  -4.412  1.00 56.49      A16S
ATOM  31484  O3* A   A1492     191.063  90.974  -5.839  1.00 56.49      A16S
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ATOM  31485  P    A  A1493     192.237  90.116  -6.523  1.00 50.73      A16S
ATOM  31486  O1P  A  A1493     191.994  90.206  -7.973  1.00 39.98      A16S
ATOM  31487  O2P  A  A1493     192.326  88.774  -5.884  1.00 39.98      A16S
ATOM  31488  O5*  A  A1493     193.551  90.953  -6.199  1.00 50.73      A16S
ATOM  31489  C5*  A  A1493     193.979  92.007  -7.077  1.00 50.73      A16S
ATOM  31490  C4*  A  A1493     195.283  92.605  -6.596  1.00 50.73      A16S
ATOM  31491  O4*  A  A1493     195.077  93.188  -5.286  1.00 50.73      A16S
ATOM  31492  C1*  A  A1493     196.224  92.993  -4.491  1.00 50.73      A16S
ATOM  31493  N9   A  A1493     195.841  92.175  -3.343  1.00 39.98      A16S
ATOM  31494  C4   A  A1493     195.799  92.568  -2.027  1.00 39.98      A16S
ATOM  31495  N3   A  A1493     196.070  93.787  -1.529  1.00 39.98      A16S
ATOM  31496  C2   A  A1493     195.944  93.787  -0.202  1.00 39.98      A16S
ATOM  31497  N1   A  A1493     195.607  92.780   0.619  1.00 39.98      A16S
ATOM  31498  C6   A  A1493     195.350  91.568   0.086  1.00 39.98      A16S
ATOM  31499  N6   A  A1493     195.036  90.561   0.906  1.00 39.98      A16S
ATOM  31500  C5   A  A1493     195.437  91.440  -1.308  1.00 39.98      A16S
ATOM  31501  N7   A  A1493     195.228  90.364  -2.158  1.00 39.98      A16S
ATOM  31502  C8   A  A1493     195.475  90.851  -3.351  1.00 39.98      A16S
ATOM  31503  C2*  A  A1493     197.291  92.325  -5.363  1.00 50.73      A16S
ATOM  31504  O2*  A  A1493     198.128  93.336  -5.897  1.00 50.73      A16S
ATOM  31505  C3*  A  A1493     196.439  91.632  -6.421  1.00 50.73      A16S
ATOM  31506  O3*  A  A1493     197.146  91.441  -7.645  1.00 50.73      A16S
ATOM  31507  P    G  A1494     196.730  90.236  -8.622  1.00 50.16      A16S
ATOM  31508  O1P  G  A1494     195.953  90.855  -9.722  1.00 59.83      A16S
ATOM  31509  O2P  G  A1494     196.145  89.114  -7.840  1.00 59.83      A16S
ATOM  31510  O5*  G  A1494     198.101  89.730  -9.255  1.00 50.16      A16S
ATOM  31511  C5*  G  A1494     199.042  88.963  -8.483  1.00 50.16      A16S
ATOM  31512  C4*  G  A1494     199.480  87.738  -9.252  1.00 50.16      A16S
ATOM  31513  O4*  G  A1494     198.439  86.730  -9.234  1.00 50.16      A16S
ATOM  31514  C1*  G  A1494     198.412  86.038 -10.474  1.00 50.16      A16S
ATOM  31515  N9   G  A1494     197.124  86.298 -11.113  1.00 59.83      A16S
ATOM  31516  C4   G  A1494     196.739  85.904 -12.376  1.00 59.83      A16S
ATOM  31517  N3   G  A1494     197.464  85.151 -13.228  1.00 59.83      A16S
ATOM  31518  C2   G  A1494     196.852  84.989 -14.393  1.00 59.83      A16S
ATOM  31519  N2   G  A1494     197.436  84.276 -15.365  1.00 59.83      A16S
ATOM  31520  N1   G  A1494     195.626  85.519 -14.695  1.00 59.83      A16S
ATOM  31521  C6   G  A1494     194.861  86.297 -13.839  1.00 59.83      A16S
ATOM  31522  O6   G  A1494     193.778  86.737 -14.224  1.00 59.83      A16S
ATOM  31523  C5   G  A1494     195.505  86.476 -12.576  1.00 59.83      A16S
ATOM  31524  N7   G  A1494     195.098  87.171 -11.445  1.00 59.83      A16S
ATOM  31525  C8   G  A1494     196.082  87.029 -10.603  1.00 59.83      A16S
ATOM  31526  C2*  G  A1494     199.552  86.597 -11.329  1.00 50.16      A16S
ATOM  31527  O2*  G  A1494     200.695  85.775 -11.254  1.00 50.16      A16S
ATOM  31528  C3*  G  A1494     199.755  87.972 -10.719  1.00 50.16      A16S
ATOM  31529  O3*  G  A1494     201.047  88.471 -10.953  1.00 50.16      A16S
ATOM  31530  P    U  A1495     201.289  89.450 -12.196  1.00 48.27      A16S
ATOM  31531  O1P  U  A1495     202.711  89.878 -12.140  1.00 55.79      A16S
ATOM  31532  O2P  U  A1495     200.218  90.477 -12.191  1.00 55.79      A16S
ATOM  31533  O5*  U  A1495     201.071  88.511 -13.467  1.00 48.27      A16S
ATOM  31534  C5*  U  A1495     201.909  87.361 -13.698  1.00 48.27      A16S
ATOM  31535  C4*  U  A1495     201.749  86.871 -15.120  1.00 48.27      A16S
ATOM  31536  O4*  U  A1495     200.450  86.241 -15.291  1.00 48.27      A16S
ATOM  31537  C1*  U  A1495     199.942  86.527 -16.588  1.00 48.27      A16S
ATOM  31538  N1   U  A1495     198.651  87.226 -16.446  1.00 55.79      A16S
ATOM  31539  C6   U  A1495     198.248  87.736 -15.231  1.00 55.79      A16S
ATOM  31540  C2   U  A1495     197.852  87.374 -17.575  1.00 55.79      A16S
ATOM  31541  O2   U  A1495     198.147  86.934 -18.671  1.00 55.79      A16S
ATOM  31542  N3   U  A1495     196.687  88.068 -17.371  1.00 55.79      A16S
ATOM  31543  C4   U  A1495     196.241  88.617 -16.188  1.00 55.79      A16S
ATOM  31544  O4   U  A1495     195.210  89.289 -16.187  1.00 55.79      A16S
ATOM  31545  C5   U  A1495     197.104  88.405 -15.070  1.00 55.79      A16S
ATOM  31546  C2*  U  A1495     201.003  87.351 -17.329  1.00 48.27      A16S
ATOM  31547  O2*  U  A1495     201.809  86.525 -18.146  1.00 48.27      A16S
ATOM  31548  C3*  U  A1495     201.795  87.953 -16.181  1.00 48.27      A16S
ATOM  31549  O3*  U  A1495     203.109  88.269 -16.576  1.00 48.27      A16S
ATOM  31550  P    C  A1496     203.399  89.694 -17.255  1.00 40.34      A16S
ATOM  31551  O1P  C  A1496     204.871  89.810 -17.451  1.00 63.02      A16S
ATOM  31552  O2P  C  A1496     202.681  90.733 -16.473  1.00 63.02      A16S
ATOM  31553  O5*  C  A1496     202.702  89.597 -18.678  1.00 40.34      A16S
ATOM  31554  C5*  C  A1496     203.192  88.680 -19.646  1.00 40.34      A16S
ATOM  31555  C4*  C  A1496     202.448  88.840 -20.936  1.00 40.34      A16S
ATOM  31556  O4*  C  A1496     201.089  88.367 -20.795  1.00 40.34      A16S
ATOM  31557  C1*  C  A1496     200.224  89.165 -21.581  1.00 40.34      A16S
ATOM  31558  N1   C  A1496     199.239  89.802 -20.684  1.00 63.02      A16S
ATOM  31559  C6   C  A1496     199.408  89.772 -19.328  1.00 63.02      A16S
ATOM  31560  C2   C  A1496     198.126  90.434 -21.236  1.00 63.02      A16S
ATOM  31561  O2   C  A1496     197.997  90.456 -22.465  1.00 63.02      A16S
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ATOM  31562  N3   C   A1496     197.218  91.005 -20.416  1.00 63.02      A16S
ATOM  31563  C4   C   A1496     197.389  90.958 -19.097  1.00 63.02      A16S
ATOM  31564  N4   C   A1496     196.462  91.514 -18.326  1.00 63.02      A16S
ATOM  31565  C5   C   A1496     198.517  90.331 -18.509  1.00 63.02      A16S
ATOM  31566  C2*  C   A1496     201.097  90.168 -22.339  1.00 40.34      A16S
ATOM  31567  O2*  C   A1496     201.437  89.618 -23.598  1.00 40.34      A16S
ATOM  31568  C3*  C   A1496     202.319  90.257 -21.443  1.00 40.34      A16S
ATOM  31569  O3*  C   A1496     203.462  90.606 -22.183  1.00 40.34      A16S
ATOM  31570  P    G   A1497     204.211  91.975 -21.856  1.00 34.57      A16S
ATOM  31571  O1P  G   A1497     205.362  92.120 -22.791  1.00 53.69      A16S
ATOM  31572  O2P  G   A1497     204.454  92.006 -20.396  1.00 53.69      A16S
ATOM  31573  O5*  G   A1497     203.110  93.069 -22.203  1.00 34.57      A16S
ATOM  31574  C5*  G   A1497     203.211  93.862 -23.402  1.00 34.57      A16S
ATOM  31575  C4*  G   A1497     202.003  93.649 -24.282  1.00 34.57      A16S
ATOM  31576  O4*  G   A1497     201.055  92.755 -23.644  1.00 34.57      A16S
ATOM  31577  C1*  G   A1497     199.738  93.173 -23.929  1.00 34.57      A16S
ATOM  31578  N9   G   A1497     199.072  93.456 -22.665  1.00 53.69      A16S
ATOM  31579  C4   G   A1497     197.739  93.749 -22.475  1.00 53.69      A16S
ATOM  31580  N3   G   A1497     196.791  93.819 -23.437  1.00 53.69      A16S
ATOM  31581  C2   G   A1497     195.605  94.103 -22.941  1.00 53.69      A16S
ATOM  31582  N2   G   A1497     194.549  94.189 -23.757  1.00 53.69      A16S
ATOM  31583  N1   G   A1497     195.373  94.316 -21.607  1.00 53.69      A16S
ATOM  31584  C6   G   A1497     196.338  94.262 -20.607  1.00 53.69      A16S
ATOM  31585  O6   G   A1497     196.032  94.484 -19.440  1.00 53.69      A16S
ATOM  31586  C5   G   A1497     197.600  93.945 -21.122  1.00 53.69      A16S
ATOM  31587  N7   G   A1497     198.812  93.777 -20.472  1.00 53.69      A16S
ATOM  31588  C8   G   A1497     199.652  93.487 -21.425  1.00 53.69      A16S
ATOM  31589  C2*  G   A1497     199.827  94.388 -24.856  1.00 34.57      A16S
ATOM  31590  O2*  G   A1497     199.683  93.956 -26.198  1.00 34.57      A16S
ATOM  31591  C3*  G   A1497     201.225  94.913 -24.565  1.00 34.57      A16S
ATOM  31592  O3*  G   A1497     201.780  95.571 -25.677  1.00 34.57      A16S
ATOM  31593  P    U   A1498     201.772  97.167 -25.728  1.00 31.85      A16S
ATOM  31594  O1P  U   A1498     202.277  97.641 -27.045  1.00 41.10      A16S
ATOM  31595  O2P  U   A1498     202.421  97.633 -24.487  1.00 41.10      A16S
ATOM  31596  O5*  U   A1498     200.233  97.548 -25.644  1.00 31.85      A16S
ATOM  31597  C5*  U   A1498     199.285  96.977 -26.557  1.00 31.85      A16S
ATOM  31598  C4*  U   A1498     197.946  97.646 -26.390  1.00 31.85      A16S
ATOM  31599  O4*  U   A1498     197.398  97.320 -25.093  1.00 31.85      A16S
ATOM  31600  C1*  U   A1498     197.136  98.491 -24.356  1.00 31.85      A16S
ATOM  31601  N1   U   A1498     197.417  98.175 -22.947  1.00 41.10      A16S
ATOM  31602  C6   U   A1498     198.580  97.551 -22.578  1.00 41.10      A16S
ATOM  31603  C2   U   A1498     196.449  98.487 -21.997  1.00 41.10      A16S
ATOM  31604  O2   U   A1498     195.411  99.065 -22.261  1.00 41.10      A16S
ATOM  31605  N3   U   A1498     196.741  98.091 -20.722  1.00 41.10      A16S
ATOM  31606  C4   U   A1498     197.867  97.437 -20.301  1.00 41.10      A16S
ATOM  31607  O4   U   A1498     197.947  97.082 -19.130  1.00 41.10      A16S
ATOM  31608  C5   U   A1498     198.830  97.177 -21.323  1.00 41.10      A16S
ATOM  31609  C2*  U   A1498     197.921  99.634 -24.996  1.00 31.85      A16S
ATOM  31610  O2*  U   A1498     197.183 100.820 -24.838  1.00 31.85      A16S
ATOM  31611  C3*  U   A1498     198.020  99.148 -26.442  1.00 31.85      A16S
ATOM  31612  O3*  U   A1498     197.770  99.813 -27.694  1.00 31.85      A16S
ATOM  31613  P    A   A1499     196.295 100.342 -28.073  1.00 33.53      A16S
ATOM  31614  O1P  A   A1499     196.393 101.114 -29.338  1.00 43.80      A16S
ATOM  31615  O2P  A   A1499     195.693 100.997 -26.874  1.00 43.80      A16S
ATOM  31616  O5*  A   A1499     195.493  99.008 -28.385  1.00 33.53      A16S
ATOM  31617  C5*  A   A1499     194.787  98.861 -29.630  1.00 33.53      A16S
ATOM  31618  C4*  A   A1499     193.284  98.969 -29.427  1.00 33.53      A16S
ATOM  31619  O4*  A   A1499     192.828  97.913 -28.537  1.00 33.53      A16S
ATOM  31620  C1*  A   A1499     191.778  98.393 -27.726  1.00 33.53      A16S
ATOM  31621  N9   A   A1499     192.258  98.396 -26.351  1.00 43.80      A16S
ATOM  31622  C4   A   A1499     191.524  98.640 -25.217  1.00 43.80      A16S
ATOM  31623  N3   A   A1499     190.211  98.915 -25.131  1.00 43.80      A16S
ATOM  31624  C2   A   A1499     189.866  99.131 -23.869  1.00 43.80      A16S
ATOM  31625  N1   A   A1499     190.617  99.091 -22.773  1.00 43.80      A16S
ATOM  31626  C6   A   A1499     191.921  98.791 -22.898  1.00 43.80      A16S
ATOM  31627  N6   A   A1499     192.671  98.715 -21.810  1.00 43.80      A16S
ATOM  31628  C5   A   A1499     192.418  98.564 -24.170  1.00 43.80      A16S
ATOM  31629  N7   A   A1499     193.691  98.267 -24.628  1.00 43.80      A16S
ATOM  31630  C8   A   A1499     193.542  98.172 -25.923  1.00 43.80      A16S
ATOM  31631  C2*  A   A1499     191.437  99.797 -28.216  1.00 33.53      A16S
ATOM  31632  O2*  A   A1499     190.496  99.648 -29.248  1.00 33.53      A16S
ATOM  31633  C3*  A   A1499     192.757 100.254 -28.808  1.00 33.53      A16S
ATOM  31634  O3*  A   A1499     192.553 101.245 -29.808  1.00 33.53      A16S
ATOM  31635  P    A   A1500     192.384 102.783 -29.381  1.00 27.47      A16S
ATOM  31636  O1P  A   A1500     192.063 103.589 -30.583  1.00 38.23      A16S
ATOM  31637  O2P  A   A1500     193.523 103.169 -28.523  1.00 38.23      A16S
ATOM  31638  O5*  A   A1500     191.106 102.738 -28.445  1.00 27.47      A16S
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ATOM  31639  C5* A   A1500     189.805 102.493 -28.993  1.00 27.47      A16S
ATOM  31640  C4* A   A1500     188.754 102.767 -27.962  1.00 27.47      A16S
ATOM  31641  O4* A   A1500     188.894 101.837 -26.868  1.00 27.47      A16S
ATOM  31642  C1* A   A1500     188.600 102.483 -25.648  1.00 27.47      A16S
ATOM  31643  N9  A   A1500     189.802 102.432 -24.816  1.00 38.23      A16S
ATOM  31644  C4  A   A1500     189.956 102.891 -23.530  1.00 38.23      A16S
ATOM  31645  N3  A   A1500     189.045 103.511 -22.766  1.00 38.23      A16S
ATOM  31646  C2  A   A1500     189.555 103.797 -21.575  1.00 38.23      A16S
ATOM  31647  N1  A   A1500     190.774 103.553 -21.097  1.00 38.23      A16S
ATOM  31648  C6  A   A1500     191.662 102.935 -21.888  1.00 38.23      A16S
ATOM  31649  N6  A   A1500     192.877 102.683 -21.407  1.00 38.23      A16S
ATOM  31650  C5  A   A1500     191.253 102.584 -23.174  1.00 38.23      A16S
ATOM  31651  N7  A   A1500     191.915 101.964 -24.218  1.00 38.23      A16S
ATOM  31652  C8  A   A1500     191.016 101.901 -25.165  1.00 38.23      A16S
ATOM  31653  C2* A   A1500     188.145 103.900 -25.991  1.00 27.47      A16S
ATOM  31654  O2* A   A1500     186.743 103.858 -26.186  1.00 27.47      A16S
ATOM  31655  C3* A   A1500     188.844 104.130 -27.316  1.00 27.47      A16S
ATOM  31656  O3* A   A1500     188.181 105.087 -28.123  1.00 27.47      A16S
ATOM  31657  P   C   A1501     188.659 106.611 -28.082  1.00 22.06      A16S
ATOM  31658  O1P C   A1501     187.839 107.401 -29.054  1.00 49.77      A16S
ATOM  31659  O2P C   A1501     190.144 106.605 -28.204  1.00 49.77      A16S
ATOM  31660  O5* C   A1501     188.268 107.042 -26.604  1.00 22.06      A16S
ATOM  31661  C5* C   A1501     186.901 107.155 -26.233  1.00 22.06      A16S
ATOM  31662  C4* C   A1501     186.785 107.699 -24.847  1.00 22.06      A16S
ATOM  31663  O4* C   A1501     187.315 106.741 -23.907  1.00 22.06      A16S
ATOM  31664  C1* C   A1501     187.856 107.426 -22.796  1.00 22.06      A16S
ATOM  31665  N1  C   A1501     189.244 107.003 -22.621  1.00 49.77      A16S
ATOM  31666  C6  C   A1501     189.947 106.431 -23.639  1.00 49.77      A16S
ATOM  31667  C2  C   A1501     189.829 107.202 -21.400  1.00 49.77      A16S
ATOM  31668  O2  C   A1501     189.143 107.703 -20.494  1.00 49.77      A16S
ATOM  31669  N3  C   A1501     191.119 106.847 -21.217  1.00 49.77      A16S
ATOM  31670  C4  C   A1501     191.802 106.304 -22.215  1.00 49.77      A16S
ATOM  31671  N4  C   A1501     193.068 105.989 -22.006  1.00 49.77      A16S
ATOM  31672  C5  C   A1501     191.215 106.068 -23.477  1.00 49.77      A16S
ATOM  31673  C2* C   A1501     187.707 108.924 -23.047  1.00 22.06      A16S
ATOM  31674  O2* C   A1501     186.550 109.359 -22.376  1.00 22.06      A16S
ATOM  31675  C3* C   A1501     187.538 108.973 -24.555  1.00 22.06      A16S
ATOM  31676  O3* C   A1501     186.760 110.060 -24.962  1.00 22.06      A16S
ATOM  31677  P   A   A1502     187.280 110.967 -26.161  1.00 46.71      A16S
ATOM  31678  O1P A   A1502     186.205 111.857 -26.651  1.00 61.20      A16S
ATOM  31679  O2P A   A1502     187.990 110.085 -27.127  1.00 61.20      A16S
ATOM  31680  O5* A   A1502     188.367 111.850 -25.427  1.00 46.71      A16S
ATOM  31681  C5* A   A1502     188.161 113.238 -25.287  1.00 46.71      A16S
ATOM  31682  C4* A   A1502     189.467 113.978 -25.379  1.00 46.71      A16S
ATOM  31683  O4* A   A1502     190.202 113.843 -24.146  1.00 46.71      A16S
ATOM  31684  C1* A   A1502     191.553 113.887 -24.454  1.00 46.71      A16S
ATOM  31685  N9  A   A1502     192.325 113.576 -23.252  1.00 61.20      A16S
ATOM  31686  C4  A   A1502     193.569 113.016 -23.159  1.00 61.20      A16S
ATOM  31687  N3  A   A1502     194.329 112.559 -24.165  1.00 61.20      A16S
ATOM  31688  C2  A   A1502     195.481 112.110 -23.697  1.00 61.20      A16S
ATOM  31689  N1  A   A1502     195.932 112.071 -22.427  1.00 61.20      A16S
ATOM  31690  C6  A   A1502     195.135 112.543 -21.442  1.00 61.20      A16S
ATOM  31691  N6  A   A1502     195.574 112.518 -20.185  1.00 61.20      A16S
ATOM  31692  C5  A   A1502     193.891 113.038 -21.806  1.00 61.20      A16S
ATOM  31693  N7  A   A1502     192.858 113.568 -21.058  1.00 61.20      A16S
ATOM  31694  C8  A   A1502     191.950 113.860 -21.955  1.00 61.20      A16S
ATOM  31695  C2* A   A1502     191.636 113.070 -25.736  1.00 46.71      A16S
ATOM  31696  O2* A   A1502     192.850 113.362 -26.387  1.00 46.71      A16S
ATOM  31697  C3* A   A1502     190.438 113.643 -26.504  1.00 46.71      A16S
ATOM  31698  O3* A   A1502     190.822 114.879 -27.090  1.00 46.71      A16S
ATOM  31699  P   A   A1503     189.934 115.529 -28.270  1.00 37.95      A16S
ATOM  31700  O1P A   A1503     190.126 116.996 -28.262  1.00102.39      A16S
ATOM  31701  O2P A   A1503     188.558 114.975 -28.209  1.00102.39      A16S
ATOM  31702  O5* A   A1503     190.631 115.007 -29.596  1.00 37.95      A16S
ATOM  31703  C5* A   A1503     190.011 113.991 -30.414  1.00 37.95      A16S
ATOM  31704  C4* A   A1503     191.040 113.370 -31.326  1.00 37.95      A16S
ATOM  31705  O4* A   A1503     191.701 114.423 -32.073  1.00 37.95      A16S
ATOM  31706  C1* A   A1503     193.073 114.430 -31.781  1.00 37.95      A16S
ATOM  31707  N9  A   A1503     193.526 115.819 -31.803  1.00102.39      A16S
ATOM  31708  C4  A   A1503     194.237 116.390 -32.828  1.00102.39      A16S
ATOM  31709  N3  A   A1503     194.643 115.798 -33.964  1.00102.39      A16S
ATOM  31710  C2  A   A1503     195.298 116.661 -34.734  1.00102.39      A16S
ATOM  31711  N1  A   A1503     195.579 117.950 -34.514  1.00102.39      A16S
ATOM  31712  C6  A   A1503     195.165 118.514 -33.360  1.00102.39      A16S
ATOM  31713  N6  A   A1503     195.464 119.796 -33.136  1.00102.39      A16S
ATOM  31714  C5  A   A1503     194.445 117.704 -32.459  1.00102.39      A16S
ATOM  31715  N7  A   A1503     193.871 117.961 -31.221  1.00102.39      A16S
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ATOM  31716  C8  A  A1503     193.344 116.812 -30.874  1.00102.39      A16S
ATOM  31717  C2* A  A1503     193.228 113.675 -30.465  1.00 37.95      A16S
ATOM  31718  O2* A  A1503     194.517 113.122 -30.354  1.00 37.95      A16S
ATOM  31719  C3* A  A1503     192.139 112.624 -30.602  1.00 37.95      A16S
ATOM  31720  O3* A  A1503     192.544 111.625 -31.508  1.00 37.95      A16S
ATOM  31721  P   G  A1504     192.437 110.085 -31.101  1.00 31.64      A16S
ATOM  31722  O1P G  A1504     192.631 109.289 -32.328  1.00 54.09      A16S
ATOM  31723  O2P G  A1504     191.251 109.837 -30.265  1.00 54.09      A16S
ATOM  31724  O5* G  A1504     193.722 109.850 -30.211  1.00 31.64      A16S
ATOM  31725  C5* G  A1504     193.681 110.108 -28.849  1.00 31.64      A16S
ATOM  31726  C4* G  A1504     194.449 109.062 -28.127  1.00 31.64      A16S
ATOM  31727  O4* G  A1504     194.186 109.287 -26.733  1.00 31.64      A16S
ATOM  31728  C1* G  A1504     193.543 108.175 -26.188  1.00 31.64      A16S
ATOM  31729  N9  G  A1504     192.599 108.673 -25.204  1.00 54.09      A16S
ATOM  31730  C4  G  A1504     192.913 108.970 -23.906  1.00 54.09      A16S
ATOM  31731  N3  G  A1504     194.129 108.857 -23.348  1.00 54.09      A16S
ATOM  31732  C2  G  A1504     194.119 109.207 -22.092  1.00 54.09      A16S
ATOM  31733  N2  G  A1504     195.235 109.164 -21.386  1.00 54.09      A16S
ATOM  31734  N1  G  A1504     193.016 109.629 -21.428  1.00 54.09      A16S
ATOM  31735  C6  G  A1504     191.753 109.753 -21.975  1.00 54.09      A16S
ATOM  31736  O6  G  A1504     190.816 110.140 -21.274  1.00 54.09      A16S
ATOM  31737  C5  G  A1504     191.742 109.388 -23.333  1.00 54.09      A16S
ATOM  31738  N7  G  A1504     190.707 109.369 -24.258  1.00 54.09      A16S
ATOM  31739  C8  G  A1504     191.265 108.939 -25.357  1.00 54.09      A16S
ATOM  31740  C2* G  A1504     192.991 107.346 -27.343  1.00 31.64      A16S
ATOM  31741  O2* G  A1504     192.974 105.973 -26.994  1.00 31.64      A16S
ATOM  31742  C3* G  A1504     194.025 107.631 -28.430  1.00 31.64      A16S
ATOM  31743  O3* G  A1504     195.166 106.780 -28.236  1.00 31.64      A16S
ATOM  31744  P   G  A1505     195.497 105.601 -29.279  1.00 39.23      A16S
ATOM  31745  O1P G  A1505     194.383 105.542 -30.259  1.00 30.75      A16S
ATOM  31746  O2P G  A1505     195.865 104.372 -28.521  1.00 30.75      A16S
ATOM  31747  O5* G  A1505     196.800 106.143 -30.022  1.00 39.23      A16S
ATOM  31748  C5* G  A1505     196.719 106.766 -31.323  1.00 39.23      A16S
ATOM  31749  C4* G  A1505     197.763 107.847 -31.451  1.00 39.23      A16S
ATOM  31750  O4* G  A1505     197.483 108.824 -30.433  1.00 39.23      A16S
ATOM  31751  C1* G  A1505     198.668 109.169 -29.765  1.00 39.23      A16S
ATOM  31752  N9  G  A1505     198.492 108.765 -28.380  1.00 30.75      A16S
ATOM  31753  C4  G  A1505     198.009 109.577 -27.407  1.00 30.75      A16S
ATOM  31754  N3  G  A1505     197.681 110.867 -27.570  1.00 30.75      A16S
ATOM  31755  C2  G  A1505     197.244 111.397 -26.467  1.00 30.75      A16S
ATOM  31756  N2  G  A1505     196.876 112.676 -26.467  1.00 30.75      A16S
ATOM  31757  N1  G  A1505     197.138 110.712 -25.288  1.00 30.75      A16S
ATOM  31758  C6  G  A1505     197.478 109.381 -25.104  1.00 30.75      A16S
ATOM  31759  O6  G  A1505     197.366 108.864 -23.995  1.00 30.75      A16S
ATOM  31760  C5  G  A1505     197.937 108.803 -26.279  1.00 30.75      A16S
ATOM  31761  N7  G  A1505     198.380 107.516 -26.533  1.00 30.75      A16S
ATOM  31762  C8  G  A1505     198.711 107.541 -27.796  1.00 30.75      A16S
ATOM  31763  C2* G  A1505     199.842 108.572 -30.526  1.00 39.23      A16S
ATOM  31764  O2* G  A1505     200.281 109.549 -31.450  1.00 39.23      A16S
ATOM  31765  C3* G  A1505     199.187 107.373 -31.206  1.00 39.23      A16S
ATOM  31766  O3* G  A1505     199.851 107.104 -32.446  1.00 39.23      A16S
ATOM  31767  P   U  A1506     199.464 105.804 -33.307  1.00 38.09      A16S
ATOM  31768  O1P U  A1506     199.129 104.675 -32.373  1.00 30.68      A16S
ATOM  31769  O2P U  A1506     200.522 105.601 -34.343  1.00 30.68      A16S
ATOM  31770  O5* U  A1506     198.190 106.318 -34.101  1.00 38.09      A16S
ATOM  31771  C5* U  A1506     198.311 107.436 -35.000  1.00 38.09      A16S
ATOM  31772  C4* U  A1506     197.341 107.279 -36.130  1.00 38.09      A16S
ATOM  31773  O4* U  A1506     197.500 105.931 -36.643  1.00 38.09      A16S
ATOM  31774  C1* U  A1506     196.271 105.243 -36.563  1.00 38.09      A16S
ATOM  31775  N1  U  A1506     196.530 103.811 -36.344  1.00 30.68      A16S
ATOM  31776  C6  U  A1506     197.228 103.359 -35.259  1.00 30.68      A16S
ATOM  31777  C2  U  A1506     196.035 102.932 -37.280  1.00 30.68      A16S
ATOM  31778  O2  U  A1506     195.459 103.294 -38.281  1.00 30.68      A16S
ATOM  31779  N3  U  A1506     196.257 101.611 -37.014  1.00 30.68      A16S
ATOM  31780  C4  U  A1506     196.929 101.088 -35.946  1.00 30.68      A16S
ATOM  31781  O4  U  A1506     196.955  99.866 -35.787  1.00 30.68      A16S
ATOM  31782  C5  U  A1506     197.448 102.063 -35.039  1.00 30.68      A16S
ATOM  31783  C2* U  A1506     195.466 105.960 -35.483  1.00 38.09      A16S
ATOM  31784  O2* U  A1506     194.082 105.715 -35.613  1.00 38.09      A16S
ATOM  31785  C3* U  A1506     195.878 107.409 -35.728  1.00 38.09      A16S
ATOM  31786  O3* U  A1506     195.166 107.907 -36.849  1.00 38.09      A16S
ATOM  31787  P   A  A1507     194.571 109.393 -36.828  1.00 33.22      A16S
ATOM  31788  O1P A  A1507     193.881 109.629 -38.117  1.00 38.34      A16S
ATOM  31789  O2P A  A1507     195.667 110.295 -36.416  1.00 38.34      A16S
ATOM  31790  O5* A  A1507     193.479 109.386 -35.668  1.00 33.22      A16S
ATOM  31791  C5* A  A1507     192.400 108.439 -35.677  1.00 33.22      A16S
ATOM  31792  C4* A  A1507     191.351 108.829 -34.668  1.00 33.22      A16S
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ATOM  31793  O4*  A  A1507     190.606 109.972 -35.156  1.00 33.22      A16S
ATOM  31794  C1*  A  A1507     189.242 109.849 -34.792  1.00 33.22      A16S
ATOM  31795  N9   A  A1507     188.448 109.785 -36.014  1.00 38.34      A16S
ATOM  31796  C4   A  A1507     187.076 109.764 -36.096  1.00 38.34      A16S
ATOM  31797  N3   A  A1507     186.197 109.798 -35.085  1.00 38.34      A16S
ATOM  31798  C2   A  A1507     184.955 109.759 -35.550  1.00 38.34      A16S
ATOM  31799  N1   A  A1507     184.521 109.695 -36.810  1.00 38.34      A16S
ATOM  31800  C6   A  A1507     185.426 109.661 -37.797  1.00 38.34      A16S
ATOM  31801  N6   A  A1507     184.995 109.596 -39.045  1.00 38.34      A16S
ATOM  31802  C5   A  A1507     186.778 109.696 -37.445  1.00 38.34      A16S
ATOM  31803  N7   A  A1507     187.940 109.673 -38.203  1.00 38.34      A16S
ATOM  31804  C8   A  A1507     188.899 109.728 -37.308  1.00 38.34      A16S
ATOM  31805  C2*  A  A1507     189.097 108.581 -33.957  1.00 33.22      A16S
ATOM  31806  O2*  A  A1507     189.154 108.908 -32.584  1.00 33.22      A16S
ATOM  31807  C3*  A  A1507     190.291 107.774 -34.435  1.00 33.22      A16S
ATOM  31808  O3*  A  A1507     190.718 106.785 -33.520  1.00 33.22      A16S
ATOM  31809  P    G  A1508     190.388 105.253 -33.842  1.00 37.18      A16S
ATOM  31810  O1P  G  A1508     191.300 104.359 -33.075  1.00 30.83      A16S
ATOM  31811  O2P  G  A1508     190.334 105.160 -35.325  1.00 30.83      A16S
ATOM  31812  O5*  G  A1508     188.904 105.064 -33.305  1.00 37.18      A16S
ATOM  31813  C5*  G  A1508     188.584 105.323 -31.934  1.00 37.18      A16S
ATOM  31814  C4*  G  A1508     187.099 105.544 -31.770  1.00 37.18      A16S
ATOM  31815  O4*  G  A1508     186.663 106.666 -32.578  1.00 37.18      A16S
ATOM  31816  C1*  G  A1508     185.340 106.443 -33.025  1.00 37.18      A16S
ATOM  31817  N9   G  A1508     185.325 106.455 -34.479  1.00 30.83      A16S
ATOM  31818  C4   G  A1508     184.238 106.657 -35.289  1.00 30.83      A16S
ATOM  31819  N3   G  A1508     182.976 106.922 -34.886  1.00 30.83      A16S
ATOM  31820  C2   G  A1508     182.144 107.040 -35.912  1.00 30.83      A16S
ATOM  31821  N2   G  A1508     180.856 107.299 -35.712  1.00 30.83      A16S
ATOM  31822  N1   G  A1508     182.522 106.909 -37.214  1.00 30.83      A16S
ATOM  31823  C6   G  A1508     183.815 106.643 -37.644  1.00 30.83      A16S
ATOM  31824  O6   G  A1508     184.054 106.544 -38.849  1.00 30.83      A16S
ATOM  31825  C5   G  A1508     184.710 106.517 -36.566  1.00 30.83      A16S
ATOM  31826  N7   G  A1508     186.066 106.257 -36.563  1.00 30.83      A16S
ATOM  31827  C8   G  A1508     186.388 106.238 -35.305  1.00 30.83      A16S
ATOM  31828  C2*  G  A1508     184.892 105.098 -32.467  1.00 37.18      A16S
ATOM  31829  O2*  G  A1508     184.253 105.355 -31.242  1.00 37.18      A16S
ATOM  31830  C3*  G  A1508     186.213 104.404 -32.213  1.00 37.18      A16S
ATOM  31831  O3*  G  A1508     186.081 103.459 -31.178  1.00 37.18      A16S
ATOM  31832  P    C  A1509     185.644 101.967 -31.542  1.00 31.03      A16S
ATOM  31833  O1P  C  A1509     185.707 101.117 -30.317  1.00 40.32      A16S
ATOM  31834  O2P  C  A1509     186.415 101.572 -32.744  1.00 40.32      A16S
ATOM  31835  O5*  C  A1509     184.133 102.142 -32.000  1.00 31.03      A16S
ATOM  31836  C5*  C  A1509     183.153 102.621 -31.082  1.00 31.03      A16S
ATOM  31837  C4*  C  A1509     181.848 102.900 -31.788  1.00 31.03      A16S
ATOM  31838  O4*  C  A1509     181.975 104.014 -32.706  1.00 31.03      A16S
ATOM  31839  C1*  C  A1509     181.075 103.842 -33.786  1.00 31.03      A16S
ATOM  31840  N1   C  A1509     181.844 103.724 -35.030  1.00 40.32      A16S
ATOM  31841  C6   C  A1509     183.162 103.368 -35.011  1.00 40.32      A16S
ATOM  31842  C2   C  A1509     181.199 103.962 -36.237  1.00 40.32      A16S
ATOM  31843  O2   C  A1509     180.012 104.303 -36.225  1.00 40.32      A16S
ATOM  31844  N3   C  A1509     181.884 103.814 -37.389  1.00 40.32      A16S
ATOM  31845  C4   C  A1509     183.162 103.444 -37.358  1.00 40.32      A16S
ATOM  31846  N4   C  A1509     183.789 103.279 -38.515  1.00 40.32      A16S
ATOM  31847  C5   C  A1509     183.850 103.219 -36.140  1.00 40.32      A16S
ATOM  31848  C2*  C  A1509     180.300 102.560 -33.516  1.00 31.03      A16S
ATOM  31849  O2*  C  A1509     179.137 102.879 -32.772  1.00 31.03      A16S
ATOM  31850  C3*  C  A1509     181.282 101.803 -32.653  1.00 31.03      A16S
ATOM  31851  O3*  C  A1509     180.632 100.828 -31.907  1.00 31.03      A16S
ATOM  31852  P    U  A1510     180.659  99.325 -32.437  1.00 30.60      A16S
ATOM  31853  O1P  U  A1510     179.933  98.478 -31.444  1.00 41.93      A16S
ATOM  31854  O2P  U  A1510     182.080  99.035 -32.755  1.00 41.93      A16S
ATOM  31855  O5*  U  A1510     179.841  99.395 -33.801  1.00 30.60      A16S
ATOM  31856  C5*  U  A1510     178.502  99.863 -33.794  1.00 30.60      A16S
ATOM  31857  C4*  U  A1510     177.974  99.960 -35.186  1.00 30.60      A16S
ATOM  31858  O4*  U  A1510     178.733 100.927 -35.946  1.00 30.60      A16S
ATOM  31859  C1*  U  A1510     178.727 100.558 -37.312  1.00 30.60      A16S
ATOM  31860  N1   U  A1510     180.116 100.447 -37.780  1.00 41.93      A16S
ATOM  31861  C6   U  A1510     181.128 100.090 -36.927  1.00 41.93      A16S
ATOM  31862  C2   U  A1510     180.369 100.696 -39.117  1.00 41.93      A16S
ATOM  31863  O2   U  A1510     179.513 101.026 -39.906  1.00 41.93      A16S
ATOM  31864  N3   U  A1510     181.669 100.535 -39.497  1.00 41.93      A16S
ATOM  31865  C4   U  A1510     182.718 100.151 -38.707  1.00 41.93      A16S
ATOM  31866  O4   U  A1510     183.808  99.921 -39.228  1.00 41.93      A16S
ATOM  31867  C5   U  A1510     182.383  99.935 -37.333  1.00 41.93      A16S
ATOM  31868  C2*  U  A1510     177.972  99.232 -37.428  1.00 30.60      A16S
ATOM  31869  O2*  U  A1510     176.626  99.465 -37.788  1.00 30.60      A16S
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ATOM  31870  C3* U   A1510     178.063  98.701 -36.010  1.00 30.60      A16S
ATOM  31871  O3* U   A1510     176.999  97.828 -35.719  1.00 30.60      A16S
ATOM  31872  P   G   A1511     177.224  96.252 -35.860  1.00 27.56      A16S
ATOM  31873  O1P G   A1511     176.258  95.589 -34.930  1.00 35.00      A16S
ATOM  31874  O2P G   A1511     178.673  95.966 -35.723  1.00 35.00      A16S
ATOM  31875  O5* G   A1511     176.825  95.967 -37.377  1.00 27.56      A16S
ATOM  31876  C5* G   A1511     175.453  95.779 -37.743  1.00 27.56      A16S
ATOM  31877  C4* G   A1511     175.338  95.545 -39.214  1.00 27.56      A16S
ATOM  31878  O4* G   A1511     175.847  96.706 -39.906  1.00 27.56      A16S
ATOM  31879  C1* G   A1511     176.553  96.310 -41.061  1.00 27.56      A16S
ATOM  31880  N9  G   A1511     177.957  96.673 -40.875  1.00 35.00      A16S
ATOM  31881  C4  G   A1511     178.914  96.811 -41.854  1.00 35.00      A16S
ATOM  31882  N3  G   A1511     178.722  96.654 -43.174  1.00 35.00      A16S
ATOM  31883  C2  G   A1511     179.830  96.831 -43.854  1.00 35.00      A16S
ATOM  31884  N2  G   A1511     179.823  96.690 -45.186  1.00 35.00      A16S
ATOM  31885  N1  G   A1511     181.026  97.153 -43.283  1.00 35.00      A16S
ATOM  31886  C6  G   A1511     181.246  97.319 -41.928  1.00 35.00      A16S
ATOM  31887  O6  G   A1511     182.369  97.602 -41.520  1.00 35.00      A16S
ATOM  31888  C5  G   A1511     180.076  97.122 -41.189  1.00 35.00      A16S
ATOM  31889  N7  G   A1511     179.861  97.188 -39.822  1.00 35.00      A16S
ATOM  31890  C8  G   A1511     178.593  96.921 -39.681  1.00 35.00      A16S
ATOM  31891  C2* G   A1511     176.370  94.799 -41.191  1.00 27.56      A16S
ATOM  31892  O2* G   A1511     175.234  94.555 -42.011  1.00 27.56      A16S
ATOM  31893  C3* G   A1511     176.159  94.393 -39.741  1.00 27.56      A16S
ATOM  31894  O3* G   A1511     175.457  93.172 -39.597  1.00 27.56      A16S
ATOM  31895  P   U   A1512     176.262  91.837 -39.247  1.00 34.15      A16S
ATOM  31896  O1P U   A1512     175.301  90.730 -39.061  1.00 44.36      A16S
ATOM  31897  O2P U   A1512     177.241  92.123 -38.177  1.00 44.36      A16S
ATOM  31898  O5* U   A1512     177.082  91.584 -40.581  1.00 34.15      A16S
ATOM  31899  C5* U   A1512     176.400  91.444 -41.829  1.00 34.15      A16S
ATOM  31900  C4* U   A1512     177.386  91.473 -42.960  1.00 34.15      A16S
ATOM  31901  O4* U   A1512     177.967  92.792 -43.081  1.00 34.15      A16S
ATOM  31902  C1* U   A1512     179.309  92.677 -43.507  1.00 34.15      A16S
ATOM  31903  N1  U   A1512     180.162  93.305 -42.494  1.00 44.36      A16S
ATOM  31904  C6  U   A1512     179.814  93.321 -41.163  1.00 44.36      A16S
ATOM  31905  C2  U   A1512     181.336  93.863 -42.925  1.00 44.36      A16S
ATOM  31906  O2  U   A1512     181.666  93.873 -44.098  1.00 44.36      A16S
ATOM  31907  N3  U   A1512     182.117  94.403 -41.933  1.00 44.36      A16S
ATOM  31908  C4  U   A1512     181.841  94.432 -40.586  1.00 44.36      A16S
ATOM  31909  O4  U   A1512     182.670  94.902 -39.812  1.00 44.36      A16S
ATOM  31910  C5  U   A1512     180.594  93.849 -40.222  1.00 44.36      A16S
ATOM  31911  C2* U   A1512     179.622  91.189 -43.711  1.00 34.15      A16S
ATOM  31912  O2* U   A1512     179.478  90.875 -45.084  1.00 34.15      A16S
ATOM  31913  C3* U   A1512     178.565  90.523 -42.831  1.00 34.15      A16S
ATOM  31914  O3* U   A1512     178.148  89.266 -43.336  1.00 34.15      A16S
ATOM  31915  P   A   A1513     179.013  87.947 -43.049  1.00 33.52      A16S
ATOM  31916  O1P A   A1513     178.358  86.906 -43.886  1.00 45.58      A16S
ATOM  31917  O2P A   A1513     179.166  87.733 -41.591  1.00 45.58      A16S
ATOM  31918  O5* A   A1513     180.433  88.285 -43.672  1.00 33.52      A16S
ATOM  31919  C5* A   A1513     180.651  88.172 -45.079  1.00 33.52      A16S
ATOM  31920  C4* A   A1513     182.106  88.377 -45.393  1.00 33.52      A16S
ATOM  31921  O4* A   A1513     182.458  89.770 -45.230  1.00 33.52      A16S
ATOM  31922  C1* A   A1513     183.817  89.868 -44.864  1.00 33.52      A16S
ATOM  31923  N9  A   A1513     183.933  90.611 -43.615  1.00 45.58      A16S
ATOM  31924  C4  A   A1513     184.957  91.468 -43.304  1.00 45.58      A16S
ATOM  31925  N3  A   A1513     186.000  91.804 -44.077  1.00 45.58      A16S
ATOM  31926  C2  A   A1513     186.809  92.634 -43.433  1.00 45.58      A16S
ATOM  31927  N1  A   A1513     186.703  93.130 -42.205  1.00 45.58      A16S
ATOM  31928  C6  A   A1513     185.643  92.777 -41.461  1.00 45.58      A16S
ATOM  31929  N6  A   A1513     185.535  93.277 -40.237  1.00 45.58      A16S
ATOM  31930  C5  A   A1513     184.713  91.899 -42.023  1.00 45.58      A16S
ATOM  31931  N7  A   A1513     183.543  91.339 -41.534  1.00 45.58      A16S
ATOM  31932  C8  A   A1513     183.116  90.591 -42.522  1.00 45.58      A16S
ATOM  31933  C2* A   A1513     184.359  88.451 -44.722  1.00 33.52      A16S
ATOM  31934  O2* A   A1513     184.951  88.076 -45.940  1.00 33.52      A16S
ATOM  31935  C3* A   A1513     183.093  87.657 -44.501  1.00 33.52      A16S
ATOM  31936  O3* A   A1513     183.288  86.326 -44.898  1.00 33.52      A16S
ATOM  31937  P   C   A1514     183.920  85.282 -43.860  1.00 33.94      A16S
ATOM  31938  O1P C   A1514     183.744  83.923 -44.446  1.00 40.09      A16S
ATOM  31939  O2P C   A1514     183.384  85.574 -42.504  1.00 40.09      A16S
ATOM  31940  O5* C   A1514     185.476  85.634 -43.883  1.00 33.94      A16S
ATOM  31941  C5* C   A1514     186.264  85.299 -45.032  1.00 33.94      A16S
ATOM  31942  C4* C   A1514     187.663  85.848 -44.919  1.00 33.94      A16S
ATOM  31943  O4* C   A1514     187.623  87.292 -44.873  1.00 33.94      A16S
ATOM  31944  C1* C   A1514     188.690  87.771 -44.084  1.00 33.94      A16S
ATOM  31945  N1  C   A1514     188.119  88.437 -42.903  1.00 40.09      A16S
ATOM  31946  C6  C   A1514     186.944  88.002 -42.362  1.00 40.09      A16S
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ATOM  31947  C2  C  A1514     188.807  89.504 -42.322  1.00 40.09      A16S
ATOM  31948  O2  C  A1514     189.849  89.911 -42.848  1.00 40.09      A16S
ATOM  31949  N3  C  A1514     188.314  90.068 -41.202  1.00 40.09      A16S
ATOM  31950  C4  C  A1514     187.181  89.615 -40.671  1.00 40.09      A16S
ATOM  31951  N4  C  A1514     186.744  90.185 -39.553  1.00 40.09      A16S
ATOM  31952  C5  C  A1514     186.448  88.555 -41.258  1.00 40.09      A16S
ATOM  31953  C2* C  A1514     189.532  86.561 -43.677  1.00 33.94      A16S
ATOM  31954  O2* C  A1514     190.562  86.384 -44.636  1.00 33.94      A16S
ATOM  31955  C3* C  A1514     188.495  85.444 -43.715  1.00 33.94      A16S
ATOM  31956  O3* C  A1514     189.088  84.158 -43.886  1.00 33.94      A16S
ATOM  31957  P   C  A1515     189.677  83.377 -42.612  1.00 40.48      A16S
ATOM  31958  O1P C  A1515     190.335  82.159 -43.137  1.00 45.89      A16S
ATOM  31959  O2P C  A1515     188.624  83.249 -41.581  1.00 45.89      A16S
ATOM  31960  O5* C  A1515     190.803  84.347 -42.044  1.00 40.48      A16S
ATOM  31961  C5* C  A1515     192.041  84.537 -42.758  1.00 40.48      A16S
ATOM  31962  C4* C  A1515     192.990  85.398 -41.954  1.00 40.48      A16S
ATOM  31963  O4* C  A1515     192.470  86.752 -41.867  1.00 40.48      A16S
ATOM  31964  C1* C  A1515     192.732  87.277 -40.575  1.00 40.48      A16S
ATOM  31965  N1  C  A1515     191.444  87.545 -39.892  1.00 45.89      A16S
ATOM  31966  C6  C  A1515     190.339  86.788 -40.162  1.00 45.89      A16S
ATOM  31967  C2  C  A1515     191.377  88.565 -38.941  1.00 45.89      A16S
ATOM  31968  O2  C  A1515     192.360  89.274 -38.756  1.00 45.89      A16S
ATOM  31969  N3  C  A1515     190.236  88.755 -38.252  1.00 45.89      A16S
ATOM  31970  C4  C  A1515     189.176  87.989 -38.498  1.00 45.89      A16S
ATOM  31971  N4  C  A1515     188.078  88.189 -37.774  1.00 45.89      A16S
ATOM  31972  C5  C  A1515     189.195  86.977 -39.495  1.00 45.89      A16S
ATOM  31973  C2* C  A1515     193.571  86.242 -39.816  1.00 40.48      A16S
ATOM  31974  O2* C  A1515     194.940  86.486 -40.014  1.00 40.48      A16S
ATOM  31975  C3* C  A1515     193.184  84.953 -40.511  1.00 40.48      A16S
ATOM  31976  O3* C  A1515     194.206  83.977 -40.379  1.00 40.48      A16S
ATOM  31977  P   G  A1516     194.356  83.172 -38.996  1.00 41.40      A16S
ATOM  31978  O1P G  A1516     195.463  82.195 -39.162  1.00 61.46      A16S
ATOM  31979  O2P G  A1516     193.025  82.695 -38.557  1.00 61.46      A16S
ATOM  31980  O5* G  A1516     194.832  84.293 -37.973  1.00 41.40      A16S
ATOM  31981  C5* G  A1516     196.157  84.841 -38.048  1.00 41.40      A16S
ATOM  31982  C4* G  A1516     196.453  85.655 -36.820  1.00 41.40      A16S
ATOM  31983  O4* G  A1516     195.623  86.842 -36.816  1.00 41.40      A16S
ATOM  31984  C1* G  A1516     195.238  87.143 -35.483  1.00 41.40      A16S
ATOM  31985  N9  G  A1516     193.781  87.056 -35.374  1.00 61.46      A16S
ATOM  31986  C4  G  A1516     192.986  87.753 -34.493  1.00 61.46      A16S
ATOM  31987  N3  G  A1516     193.406  88.679 -33.614  1.00 61.46      A16S
ATOM  31988  C2  G  A1516     192.418  89.146 -32.883  1.00 61.46      A16S
ATOM  31989  N2  G  A1516     192.665  90.070 -31.962  1.00 61.46      A16S
ATOM  31990  N1  G  A1516     191.119  88.741 -32.997  1.00 61.46      A16S
ATOM  31991  C6  G  A1516     190.656  87.788 -33.890  1.00 61.46      A16S
ATOM  31992  O6  G  A1516     189.448  87.481 -33.902  1.00 61.46      A16S
ATOM  31993  C5  G  A1516     191.711  87.279 -34.695  1.00 61.46      A16S
ATOM  31994  N7  G  A1516     191.693  86.330 -35.708  1.00 61.46      A16S
ATOM  31995  C8  G  A1516     192.940  86.238 -36.086  1.00 61.46      A16S
ATOM  31996  C2* G  A1516     195.901  86.114 -34.563  1.00 41.40      A16S
ATOM  31997  O2* G  A1516     197.103  86.614 -34.017  1.00 41.40      A16S
ATOM  31998  C3* G  A1516     196.127  84.957 -35.517  1.00 41.40      A16S
ATOM  31999  O3* G  A1516     197.162  84.112 -35.081  1.00 41.40      A16S
ATOM  32000  P   G  A1517     196.845  82.983 -33.989  1.00 54.44      A16S
ATOM  32001  O1P G  A1517     195.571  82.308 -34.348  1.00 49.53      A16S
ATOM  32002  O2P G  A1517     198.082  82.180 -33.808  1.00 49.53      A16S
ATOM  32003  O5* G  A1517     196.560  83.799 -32.654  1.00 54.44      A16S
ATOM  32004  C5* G  A1517     197.603  84.076 -31.702  1.00 54.44      A16S
ATOM  32005  C4* G  A1517     197.061  83.948 -30.303  1.00 54.44      A16S
ATOM  32006  O4* G  A1517     198.126  84.138 -29.344  1.00 54.44      A16S
ATOM  32007  C1* G  A1517     197.646  84.862 -28.229  1.00 54.44      A16S
ATOM  32008  N9  G  A1517     198.340  86.145 -28.215  1.00 49.53      A16S
ATOM  32009  C4  G  A1517     198.402  87.054 -27.183  1.00 49.53      A16S
ATOM  32010  N3  G  A1517     197.795  86.942 -25.984  1.00 49.53      A16S
ATOM  32011  C2  G  A1517     198.078  87.960 -25.193  1.00 49.53      A16S
ATOM  32012  N2  G  A1517     197.572  88.009 -23.942  1.00 49.53      A16S
ATOM  32013  N1  G  A1517     198.883  89.004 -25.560  1.00 49.53      A16S
ATOM  32014  C6  G  A1517     199.509  89.142 -26.790  1.00 49.53      A16S
ATOM  32015  O6  G  A1517     200.221  90.126 -27.016  1.00 49.53      A16S
ATOM  32016  C5  G  A1517     199.218  88.065 -27.639  1.00 49.53      A16S
ATOM  32017  N7  G  A1517     199.629  87.820 -28.938  1.00 49.53      A16S
ATOM  32018  C8  G  A1517     199.082  86.676 -29.240  1.00 49.53      A16S
ATOM  32019  C2* G  A1517     196.141  85.023 -28.414  1.00 54.44      A16S
ATOM  32020  O2* G  A1517     195.469  83.930 -27.821  1.00 54.44      A16S
ATOM  32021  C3* G  A1517     196.025  84.983 -29.923  1.00 54.44      A16S
ATOM  32022  O3* G  A1517     194.726  84.619 -30.337  1.00 54.44      A16S
ATOM  32023  P   A  A1518     193.741  85.757 -30.884  1.00 37.87      A16S
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ATOM  32024  O1P A   A1518     192.467  85.097 -31.241  1.00 35.50      A16S
ATOM  32025  O2P A   A1518     194.465  86.574 -31.905  1.00 35.50      A16S
ATOM  32026  O5* A   A1518     193.504  86.670 -29.602  1.00 37.87      A16S
ATOM  32027  C5* A   A1518     192.768  86.172 -28.475  1.00 37.87      A16S
ATOM  32028  C4* A   A1518     192.797  87.173 -27.357  1.00 37.87      A16S
ATOM  32029  O4* A   A1518     194.159  87.324 -26.884  1.00 37.87      A16S
ATOM  32030  C1* A   A1518     194.408  88.676 -26.560  1.00 37.87      A16S
ATOM  32031  N9  A   A1518     195.435  89.165 -27.478  1.00 35.50      A16S
ATOM  32032  C4  A   A1518     196.214  90.289 -27.345  1.00 35.50      A16S
ATOM  32033  N3  A   A1518     196.217  91.162 -26.328  1.00 35.50      A16S
ATOM  32034  C2  A   A1518     197.113  92.121 -26.537  1.00 35.50      A16S
ATOM  32035  N1  A   A1518     197.938  92.303 -27.577  1.00 35.50      A16S
ATOM  32036  C6  A   A1518     197.899  91.417 -28.596  1.00 35.50      A16S
ATOM  32037  N6  A   A1518     198.699  91.615 -29.651  1.00 35.50      A16S
ATOM  32038  C5  A   A1518     197.003  90.339 -28.482  1.00 35.50      A16S
ATOM  32039  N7  A   A1518     196.740  89.259 -29.307  1.00 35.50      A16S
ATOM  32040  C8  A   A1518     195.806  88.596 -28.668  1.00 35.50      A16S
ATOM  32041  C2* A   A1518     193.079  89.420 -26.711  1.00 37.87      A16S
ATOM  32042  O2* A   A1518     192.379  89.369 -25.481  1.00 37.87      A16S
ATOM  32043  C3* A   A1518     192.376  88.571 -27.754  1.00 37.87      A16S
ATOM  32044  O3* A   A1518     190.970  88.698 -27.711  1.00 37.87      A16S
ATOM  32045  P   A   A1519     190.178  89.163 -29.028  1.00 42.62      A16S
ATOM  32046  O1P A   A1519     188.832  88.539 -28.949  1.00 42.67      A16S
ATOM  32047  O2P A   A1519     191.033  88.903 -30.203  1.00 42.67      A16S
ATOM  32048  O5* A   A1519     190.048  90.742 -28.876  1.00 42.62      A16S
ATOM  32049  C5* A   A1519     189.230  91.289 -27.842  1.00 42.62      A16S
ATOM  32050  C4* A   A1519     189.999  92.293 -27.030  1.00 42.62      A16S
ATOM  32051  O4* A   A1519     191.363  91.825 -26.830  1.00 42.62      A16S
ATOM  32052  C1* A   A1519     192.231  92.941 -26.703  1.00 42.62      A16S
ATOM  32053  N9  A   A1519     193.235  92.937 -27.774  1.00 42.67      A16S
ATOM  32054  C4  A   A1519     194.391  93.685 -27.756  1.00 42.67      A16S
ATOM  32055  N3  A   A1519     194.852  94.438 -26.744  1.00 42.67      A16S
ATOM  32056  C2  A   A1519     195.948  95.084 -27.104  1.00 42.67      A16S
ATOM  32057  N1  A   A1519     196.590  95.077 -28.278  1.00 42.67      A16S
ATOM  32058  C6  A   A1519     196.106  94.315 -29.282  1.00 42.67      A16S
ATOM  32059  N6  A   A1519     196.741  94.343 -30.465  1.00 42.67      A16S
ATOM  32060  C5  A   A1519     194.949  93.553 -29.014  1.00 42.67      A16S
ATOM  32061  N7  A   A1519     194.203  92.677 -29.786  1.00 42.67      A16S
ATOM  32062  C8  A   A1519     193.212  92.323 -28.998  1.00 42.67      A16S
ATOM  32063  C2* A   A1519     191.366  94.197 -26.848  1.00 42.62      A16S
ATOM  32064  O2* A   A1519     191.001  94.645 -25.557  1.00 42.62      A16S
ATOM  32065  C3* A   A1519     190.174  93.671 -27.639  1.00 42.62      A16S
ATOM  32066  O3* A   A1519     189.031  94.484 -27.432  1.00 42.62      A16S
ATOM  32067  P   G   A1520     188.390  95.310 -28.656  1.00 30.62      A16S
ATOM  32068  O1P G   A1520     188.303  96.733 -28.266  1.00 43.50      A16S
ATOM  32069  O2P G   A1520     187.177  94.611 -29.131  1.00 43.50      A16S
ATOM  32070  O5* G   A1520     189.456  95.240 -29.825  1.00 30.62      A16S
ATOM  32071  C5* G   A1520     190.630  96.047 -29.793  1.00 30.62      A16S
ATOM  32072  C4* G   A1520     191.625  95.568 -30.821  1.00 30.62      A16S
ATOM  32073  O4* G   A1520     191.609  94.115 -30.882  1.00 30.62      A16S
ATOM  32074  C1* G   A1520     191.940  93.700 -32.185  1.00 30.62      A16S
ATOM  32075  N9  G   A1520     190.833  92.924 -32.737  1.00 43.50      A16S
ATOM  32076  C4  G   A1520     190.874  92.137 -33.872  1.00 43.50      A16S
ATOM  32077  N3  G   A1520     191.963  91.882 -34.624  1.00 43.50      A16S
ATOM  32078  C2  G   A1520     191.678  91.123 -35.660  1.00 43.50      A16S
ATOM  32079  N2  G   A1520     192.644  90.752 -36.491  1.00 43.50      A16S
ATOM  32080  N1  G   A1520     190.427  90.667 -35.954  1.00 43.50      A16S
ATOM  32081  C6  G   A1520     189.295  90.918 -35.203  1.00 43.50      A16S
ATOM  32082  O6  G   A1520     188.216  90.471 -35.568  1.00 43.50      A16S
ATOM  32083  C5  G   A1520     189.587  91.711 -34.067  1.00 43.50      A16S
ATOM  32084  N7  G   A1520     188.762  92.168 -33.052  1.00 43.50      A16S
ATOM  32085  C8  G   A1520     189.547  92.871 -32.282  1.00 43.50      A16S
ATOM  32086  C2* G   A1520     192.212  94.960 -33.012  1.00 30.62      A16S
ATOM  32087  O2* G   A1520     193.599  95.197 -32.948  1.00 30.62      A16S
ATOM  32088  C3* G   A1520     191.425  96.019 -32.254  1.00 30.62      A16S
ATOM  32089  O3* G   A1520     192.004  97.311 -32.400  1.00 30.62      A16S
ATOM  32090  P   G   A1521     191.854  98.132 -33.782  1.00 32.62      A16S
ATOM  32091  O1P G   A1521     192.675  99.358 -33.637  1.00 48.94      A16S
ATOM  32092  O2P G   A1521     190.431  98.253 -34.181  1.00 48.94      A16S
ATOM  32093  O5* G   A1521     192.578  97.224 -34.861  1.00 32.62      A16S
ATOM  32094  C5* G   A1521     193.999  97.230 -34.991  1.00 32.62      A16S
ATOM  32095  C4* G   A1521     194.388  96.548 -36.267  1.00 32.62      A16S
ATOM  32096  O4* G   A1521     193.959  95.164 -36.216  1.00 32.62      A16S
ATOM  32097  C1* G   A1521     193.518  94.760 -37.505  1.00 32.62      A16S
ATOM  32098  N9  G   A1521     192.139  94.287 -37.404  1.00 48.94      A16S
ATOM  32099  C4  G   A1521     191.500  93.410 -38.253  1.00 48.94      A16S
ATOM  32100  N3  G   A1521     192.037  92.812 -39.328  1.00 48.94      A16S
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ATOM  32101  C2  G  A1521     191.172  92.012 -39.929  1.00 48.94      A16S
ATOM  32102  N2  G  A1521     191.536  91.326 -41.011  1.00 48.94      A16S
ATOM  32103  N1  G  A1521     189.887  91.821 -39.516  1.00 48.94      A16S
ATOM  32104  C6  G  A1521     189.311  92.424 -38.420  1.00 48.94      A16S
ATOM  32105  O6  G  A1521     188.141  92.182 -38.143  1.00 48.94      A16S
ATOM  32106  C5  G  A1521     190.226  93.280 -37.754  1.00 48.94      A16S
ATOM  32107  N7  G  A1521     190.066  94.051 -36.613  1.00 48.94      A16S
ATOM  32108  C8  G  A1521     191.223  94.629 -36.446  1.00 48.94      A16S
ATOM  32109  C2* G  A1521     193.691  95.948 -38.456  1.00 32.62      A16S
ATOM  32110  O2* G  A1521     194.923  95.866 -39.132  1.00 32.62      A16S
ATOM  32111  C3* G  A1521     193.702  97.120 -37.494  1.00 32.62      A16S
ATOM  32112  O3* G  A1521     194.409  98.223 -38.037  1.00 32.62      A16S
ATOM  32113  P   U  A1522     193.641  99.244 -39.000  1.00 33.88      A16S
ATOM  32114  O1P U  A1522     194.516 100.372 -39.404  1.00 40.07      A16S
ATOM  32115  O2P U  A1522     192.330  99.515 -38.342  1.00 40.07      A16S
ATOM  32116  O5* U  A1522     193.334  98.378 -40.291  1.00 33.88      A16S
ATOM  32117  C5* U  A1522     194.363  98.040 -41.195  1.00 33.88      A16S
ATOM  32118  C4* U  A1522     193.823  97.147 -42.273  1.00 33.88      A16S
ATOM  32119  O4* U  A1522     193.308  95.934 -41.667  1.00 33.88      A16S
ATOM  32120  C1* U  A1522     192.194  95.466 -42.415  1.00 33.88      A16S
ATOM  32121  N1  U  A1522     191.000  95.503 -41.564  1.00 40.07      A16S
ATOM  32122  C6  U  A1522     190.849  96.408 -40.550  1.00 40.07      A16S
ATOM  32123  C2  U  A1522     190.040  94.577 -41.828  1.00 40.07      A16S
ATOM  32124  O2  U  A1522     190.137  93.796 -42.755  1.00 40.07      A16S
ATOM  32125  N3  U  A1522     188.955  94.599 -40.984  1.00 40.07      A16S
ATOM  32126  C4  U  A1522     188.741  95.463 -39.938  1.00 40.07      A16S
ATOM  32127  O4  U  A1522     187.711  95.364 -39.264  1.00 40.07      A16S
ATOM  32128  C5  U  A1522     189.781  96.424 -39.750  1.00 40.07      A16S
ATOM  32129  C2* U  A1522     192.024  96.385 -43.615  1.00 33.88      A16S
ATOM  32130  O2* U  A1522     192.728  95.812 -44.708  1.00 33.88      A16S
ATOM  32131  C3* U  A1522     192.645  97.668 -43.078  1.00 33.88      A16S
ATOM  32132  O3* U  A1522     193.010  98.541 -44.110  1.00 33.88      A16S
ATOM  32133  P   G  A1523     191.909  99.539 -44.681  1.00 29.62      A16S
ATOM  32134  O1P G  A1523     192.517 100.542 -45.603  1.00 41.72      A16S
ATOM  32135  O2P G  A1523     191.153  99.991 -43.497  1.00 41.72      A16S
ATOM  32136  O5* G  A1523     190.972  98.587 -45.541  1.00 29.62      A16S
ATOM  32137  C5* G  A1523     191.519  97.852 -46.646  1.00 29.62      A16S
ATOM  32138  C4* G  A1523     190.455  97.028 -47.324  1.00 29.62      A16S
ATOM  32139  O4* G  A1523     190.037  95.926 -46.483  1.00 29.62      A16S
ATOM  32140  C1* G  A1523     188.670  95.660 -46.715  1.00 29.62      A16S
ATOM  32141  N9  G  A1523     187.936  95.832 -45.463  1.00 41.72      A16S
ATOM  32142  C4  G  A1523     186.662  95.394 -45.226  1.00 41.72      A16S
ATOM  32143  N3  G  A1523     185.890  94.727 -46.097  1.00 41.72      A16S
ATOM  32144  C2  G  A1523     184.728  94.415 -45.576  1.00 41.72      A16S
ATOM  32145  N2  G  A1523     183.842  93.726 -46.300  1.00 41.72      A16S
ATOM  32146  N1  G  A1523     184.341  94.744 -44.306  1.00 41.72      A16S
ATOM  32147  C6  G  A1523     185.115  95.434 -43.394  1.00 41.72      A16S
ATOM  32148  O6  G  A1523     184.670  95.670 -42.274  1.00 41.72      A16S
ATOM  32149  C5  G  A1523     186.377  95.770 -43.934  1.00 41.72      A16S
ATOM  32150  N7  G  A1523     187.452  96.441 -43.367  1.00 41.72      A16S
ATOM  32151  C8  G  A1523     188.355  96.454 -44.309  1.00 41.72      A16S
ATOM  32152  C2* G  A1523     188.182  96.620 -47.804  1.00 29.62      A16S
ATOM  32153  O2* G  A1523     188.282  95.979 -49.059  1.00 29.62      A16S
ATOM  32154  C3* G  A1523     189.175  97.757 -47.666  1.00 29.62      A16S
ATOM  32155  O3* G  A1523     189.320  98.500 -48.847  1.00 29.62      A16S
ATOM  32156  P   C  A1524     188.768  99.991 -48.889  1.00 26.13      A16S
ATOM  32157  O1P C  A1524     189.242 100.689 -50.086  1.00 34.62      A16S
ATOM  32158  O2P C  A1524     189.017 100.578 -47.567  1.00 34.62      A16S
ATOM  32159  O5* C  A1524     187.222  99.748 -49.072  1.00 26.13      A16S
ATOM  32160  C5* C  A1524     186.781  99.015 -50.202  1.00 26.13      A16S
ATOM  32161  C4* C  A1524     185.305  98.794 -50.141  1.00 26.13      A16S
ATOM  32162  O4* C  A1524     185.002  97.755 -49.184  1.00 26.13      A16S
ATOM  32163  C1* C  A1524     183.751  98.019 -48.597  1.00 26.13      A16S
ATOM  32164  N1  C  A1524     183.944  98.133 -47.146  1.00 34.62      A16S
ATOM  32165  C6  C  A1524     185.102  98.634 -46.633  1.00 34.62      A16S
ATOM  32166  C2  C  A1524     182.917  97.734 -46.296  1.00 34.62      A16S
ATOM  32167  O2  C  A1524     181.893  97.256 -46.777  1.00 34.62      A16S
ATOM  32168  N3  C  A1524     183.064  97.875 -44.971  1.00 34.62      A16S
ATOM  32169  C4  C  A1524     184.185  98.377 -44.480  1.00 34.62      A16S
ATOM  32170  N4  C  A1524     184.277  98.506 -43.164  1.00 34.62      A16S
ATOM  32171  C5  C  A1524     185.263  98.773 -45.317  1.00 34.62      A16S
ATOM  32172  C2* C  A1524     183.201  99.296 -49.246  1.00 26.13      A16S
ATOM  32173  O2* C  A1524     182.407  98.924 -50.361  1.00 26.13      A16S
ATOM  32174  C3* C  A1524     184.474  99.981 -49.713  1.00 26.13      A16S
ATOM  32175  O3* C  A1524     184.269 100.881 -50.794  1.00 26.13      A16S
ATOM  32176  P   G  A1525     183.996 102.436 -50.488  1.00 36.66      A16S
ATOM  32177  O1P G  A1525     183.759 103.140 -51.773  1.00 34.59      A16S
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ATOM  32178  O2P G   A1525     185.028 102.948 -49.554  1.00 34.59      A16S
ATOM  32179  O5* G   A1525     182.615 102.424 -49.707  1.00 36.66      A16S
ATOM  32180  C5* G   A1525     181.412 102.279 -50.438  1.00 36.66      A16S
ATOM  32181  C4* G   A1525     180.247 102.120 -49.519  1.00 36.66      A16S
ATOM  32182  O4* G   A1525     180.394 100.937 -48.695  1.00 36.66      A16S
ATOM  32183  C1* G   A1525     179.671 101.117 -47.496  1.00 36.66      A16S
ATOM  32184  N9  G   A1525     180.597 101.074 -46.377  1.00 34.59      A16S
ATOM  32185  C4  G   A1525     180.274 100.795 -45.077  1.00 34.59      A16S
ATOM  32186  N3  G   A1525     179.051 100.464 -44.619  1.00 34.59      A16S
ATOM  32187  C2  G   A1525     179.059 100.259 -43.324  1.00 34.59      A16S
ATOM  32188  N2  G   A1525     177.943  99.900 -42.704  1.00 34.59      A16S
ATOM  32189  N1  G   A1525     180.168 100.393 -42.537  1.00 34.59      A16S
ATOM  32190  C6  G   A1525     181.425 100.762 -42.990  1.00 34.59      A16S
ATOM  32191  O6  G   A1525     182.346 100.909 -42.195  1.00 34.59      A16S
ATOM  32192  C5  G   A1525     181.439 100.947 -44.373  1.00 34.59      A16S
ATOM  32193  N7  G   A1525     182.480 101.289 -45.215  1.00 34.59      A16S
ATOM  32194  C8  G   A1525     181.934 101.347 -46.396  1.00 34.59      A16S
ATOM  32195  C2* G   A1525     179.070 102.516 -47.546  1.00 36.66      A16S
ATOM  32196  O2* G   A1525     177.762 102.415 -48.073  1.00 36.66      A16S
ATOM  32197  C3* G   A1525     180.017 103.212 -48.509  1.00 36.66      A16S
ATOM  32198  O3* G   A1525     179.441 104.351 -49.097  1.00 36.66      A16S
ATOM  32199  P   G   A1526     179.673 105.790 -48.418  1.00 40.02      A16S
ATOM  32200  O1P G   A1526     179.109 106.747 -49.413  1.00 35.68      A16S
ATOM  32201  O2P G   A1526     181.092 105.919 -47.983  1.00 35.68      A16S
ATOM  32202  O5* G   A1526     178.762 105.775 -47.106  1.00 40.02      A16S
ATOM  32203  C5* G   A1526     177.370 105.425 -47.193  1.00 40.02      A16S
ATOM  32204  C4* G   A1526     176.776 105.164 -45.820  1.00 40.02      A16S
ATOM  32205  O4* G   A1526     177.344 103.973 -45.214  1.00 40.02      A16S
ATOM  32206  C1* G   A1526     177.370 104.130 -43.804  1.00 40.02      A16S
ATOM  32207  N9  G   A1526     178.762 104.100 -43.359  1.00 35.68      A16S
ATOM  32208  C4  G   A1526     179.225 104.057 -42.063  1.00 35.68      A16S
ATOM  32209  N3  G   A1526     178.476 104.029 -40.949  1.00 35.68      A16S
ATOM  32210  C2  G   A1526     179.218 103.971 -39.855  1.00 35.68      A16S
ATOM  32211  N2  G   A1526     178.638 103.925 -38.643  1.00 35.68      A16S
ATOM  32212  N1  G   A1526     180.580 103.948 -39.861  1.00 35.68      A16S
ATOM  32213  C6  G   A1526     181.366 103.979 -40.999  1.00 35.68      A16S
ATOM  32214  O6  G   A1526     182.590 103.945 -40.901  1.00 35.68      A16S
ATOM  32215  C5  G   A1526     180.590 104.042 -42.167  1.00 35.68      A16S
ATOM  32216  N7  G   A1526     180.984 104.085 -43.491  1.00 35.68      A16S
ATOM  32217  C8  G   A1526     179.869 104.116 -44.160  1.00 35.68      A16S
ATOM  32218  C2* G   A1526     176.705 105.468 -43.485  1.00 40.02      A16S
ATOM  32219  O2* G   A1526     175.335 105.227 -43.281  1.00 40.02      A16S
ATOM  32220  C3* G   A1526     176.934 106.247 -44.770  1.00 40.02      A16S
ATOM  32221  O3* G   A1526     175.973 107.277 -44.924  1.00 40.02      A16S
ATOM  32222  P   C   A1527     176.289 108.751 -44.360  1.00 33.65      A16S
ATOM  32223  O1P C   A1527     175.187 109.613 -44.855  1.00 25.43      A16S
ATOM  32224  O2P C   A1527     177.686 109.156 -44.612  1.00 25.43      A16S
ATOM  32225  O5* C   A1527     176.195 108.580 -42.782  1.00 33.65      A16S
ATOM  32226  C5* C   A1527     174.934 108.387 -42.145  1.00 33.65      A16S
ATOM  32227  C4* C   A1527     175.116 108.347 -40.664  1.00 33.65      A16S
ATOM  32228  O4* C   A1527     175.973 107.227 -40.356  1.00 33.65      A16S
ATOM  32229  C1* C   A1527     176.828 107.569 -39.275  1.00 33.65      A16S
ATOM  32230  N1  C   A1527     178.224 107.500 -39.741  1.00 25.43      A16S
ATOM  32231  C6  C   A1527     178.536 107.629 -41.063  1.00 25.43      A16S
ATOM  32232  C2  C   A1527     179.220 107.280 -38.805  1.00 25.43      A16S
ATOM  32233  O2  C   A1527     178.911 107.212 -37.607  1.00 25.43      A16S
ATOM  32234  N3  C   A1527     180.495 107.149 -39.215  1.00 25.43      A16S
ATOM  32235  C4  C   A1527     180.785 107.231 -40.504  1.00 25.43      A16S
ATOM  32236  N4  C   A1527     182.046 107.038 -40.863  1.00 25.43      A16S
ATOM  32237  C5  C   A1527     179.789 107.500 -41.484  1.00 25.43      A16S
ATOM  32238  C2* C   A1527     176.445 108.967 -38.806  1.00 33.65      A16S
ATOM  32239  O2* C   A1527     175.508 108.855 -37.761  1.00 33.65      A16S
ATOM  32240  C3* C   A1527     175.839 109.541 -40.070  1.00 33.65      A16S
ATOM  32241  O3* C   A1527     174.973 110.607 -39.788  1.00 33.65      A16S
ATOM  32242  P   U   A1528     175.553 112.103 -39.755  1.00 35.68      A16S
ATOM  32243  O1P U   A1528     174.366 112.987 -39.758  1.00 49.83      A16S
ATOM  32244  O2P U   A1528     176.559 112.235 -40.834  1.00 49.83      A16S
ATOM  32245  O5* U   A1528     176.278 112.217 -38.338  1.00 35.68      A16S
ATOM  32246  C5* U   A1528     175.592 111.885 -37.111  1.00 35.68      A16S
ATOM  32247  C4* U   A1528     176.504 112.120 -35.934  1.00 35.68      A16S
ATOM  32248  O4* U   A1528     177.638 111.206 -36.030  1.00 35.68      A16S
ATOM  32249  C1* U   A1528     178.862 111.932 -36.105  1.00 35.68      A16S
ATOM  32250  N1  U   A1528     179.717 111.307 -37.125  1.00 49.83      A16S
ATOM  32251  C6  U   A1528     179.267 111.120 -38.404  1.00 49.83      A16S
ATOM  32252  C2  U   A1528     180.997 110.922 -36.758  1.00 49.83      A16S
ATOM  32253  O2  U   A1528     181.442 111.053 -35.621  1.00 49.83      A16S
ATOM  32254  N3  U   A1528     181.743 110.373 -37.770  1.00 49.83      A16S
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ATOM  32255  C4   U   A1528     181.351 110.175 -39.075  1.00 49.83      A16S
ATOM  32256  O4   U   A1528     182.163 109.748 -39.894  1.00 49.83      A16S
ATOM  32257  C5   U   A1528     180.017 110.583 -39.361  1.00 49.83      A16S
ATOM  32258  C2*  U   A1528     178.527 113.370 -36.480  1.00 35.68      A16S
ATOM  32259  O2*  U   A1528     179.463 114.242 -35.910  1.00 35.68      A16S
ATOM  32260  C3*  U   A1528     177.133 113.505 -35.903  1.00 35.68      A16S
ATOM  32261  O3*  U   A1528     176.508 114.697 -35.416  1.00 35.68      A16S
ATOM  32262  P    G   A1529     176.203 114.884 -33.847  1.00 38.62      A16S
ATOM  32263  O1P  G   A1529     174.730 114.996 -33.807  1.00 29.70      A16S
ATOM  32264  O2P  G   A1529     177.047 115.959 -33.265  1.00 29.70      A16S
ATOM  32265  O5*  G   A1529     176.542 113.496 -33.161  1.00 38.62      A16S
ATOM  32266  C5*  G   A1529     176.149 113.256 -31.817  1.00 38.62      A16S
ATOM  32267  C4*  G   A1529     177.163 112.389 -31.150  1.00 38.62      A16S
ATOM  32268  O4*  G   A1529     176.559 111.123 -30.776  1.00 38.62      A16S
ATOM  32269  C1*  G   A1529     177.330 110.076 -31.297  1.00 38.62      A16S
ATOM  32270  N9   G   A1529     176.487 108.903 -31.510  1.00 29.70      A16S
ATOM  32271  C4   G   A1529     175.451 108.743 -32.389  1.00 29.70      A16S
ATOM  32272  N3   G   A1529     174.976 109.669 -33.220  1.00 29.70      A16S
ATOM  32273  C2   G   A1529     173.994 109.206 -33.966  1.00 29.70      A16S
ATOM  32274  N2   G   A1529     173.395 110.015 -34.853  1.00 29.70      A16S
ATOM  32275  N1   G   A1529     173.529 107.925 -33.906  1.00 29.70      A16S
ATOM  32276  C6   G   A1529     174.024 106.943 -33.065  1.00 29.70      A16S
ATOM  32277  O6   G   A1529     173.575 105.786 -33.123  1.00 29.70      A16S
ATOM  32278  C5   G   A1529     175.047 107.440 -32.243  1.00 29.70      A16S
ATOM  32279  N7   G   A1529     175.780 106.806 -31.260  1.00 29.70      A16S
ATOM  32280  C8   G   A1529     176.619 107.711 -30.854  1.00 29.70      A16S
ATOM  32281  C2*  G   A1529     178.050 110.652 -32.513  1.00 38.62      A16S
ATOM  32282  O2*  G   A1529     179.195 109.883 -32.815  1.00 38.62      A16S
ATOM  32283  C3*  G   A1529     178.364 112.075 -32.034  1.00 38.62      A16S
ATOM  32284  O3*  G   A1529     179.570 112.125 -31.262  1.00 38.62      A16S
ATOM  32285  P    G   A1530     180.256 113.543 -30.923  1.00 66.52      A16S
ATOM  32286  O1P  G   A1530     181.542 113.236 -30.237  1.00 65.42      A16S
ATOM  32287  O2P  G   A1530     179.259 114.412 -30.260  1.00 65.42      A16S
ATOM  32288  O5*  G   A1530     180.586 114.228 -32.318  1.00 66.52      A16S
ATOM  32289  C5*  G   A1530     181.385 113.562 -33.287  1.00 66.52      A16S
ATOM  32290  C4*  G   A1530     182.860 113.779 -33.022  1.00 66.52      A16S
ATOM  32291  O4*  G   A1530     183.528 112.765 -33.793  1.00 66.52      A16S
ATOM  32292  C1*  G   A1530     184.706 113.289 -34.362  1.00 66.52      A16S
ATOM  32293  N9   G   A1530     184.537 113.265 -35.807  1.00 65.42      A16S
ATOM  32294  C4   G   A1530     185.529 113.132 -36.738  1.00 65.42      A16S
ATOM  32295  N3   G   A1530     186.851 113.029 -36.478  1.00 65.42      A16S
ATOM  32296  C2   G   A1530     187.564 112.926 -37.585  1.00 65.42      A16S
ATOM  32297  N2   G   A1530     188.901 112.830 -37.513  1.00 65.42      A16S
ATOM  32298  N1   G   A1530     187.022 112.915 -38.849  1.00 65.42      A16S
ATOM  32299  C6   G   A1530     185.662 113.019 -39.143  1.00 65.42      A16S
ATOM  32300  O6   G   A1530     185.273 113.009 -40.331  1.00 65.42      A16S
ATOM  32301  C5   G   A1530     184.885 113.136 -37.959  1.00 65.42      A16S
ATOM  32302  N7   G   A1530     183.512 113.275 -37.793  1.00 65.42      A16S
ATOM  32303  C8   G   A1530     183.353 113.353 -36.503  1.00 65.42      A16S
ATOM  32304  C2*  G   A1530     184.937 114.679 -33.778  1.00 66.52      A16S
ATOM  32305  O2*  G   A1530     185.752 114.505 -32.631  1.00 66.52      A16S
ATOM  32306  C3*  G   A1530     183.516 115.109 -33.427  1.00 66.52      A16S
ATOM  32307  O3*  G   A1530     183.546 116.060 -32.342  1.00 66.52      A16S
ATOM  32308  P    A   A1531     184.165 117.544 -32.564  1.00 84.79      A16S
ATOM  32309  O1P  A   A1531     183.466 118.433 -31.609  1.00 79.34      A16S
ATOM  32310  O2P  A   A1531     184.155 117.876 -34.016  1.00 79.34      A16S
ATOM  32311  O5*  A   A1531     185.694 117.434 -32.105  1.00 84.79      A16S
ATOM  32312  C5*  A   A1531     186.120 117.630 -30.719  1.00 84.79      A16S
ATOM  32313  C4*  A   A1531     187.639 117.797 -30.648  1.00 84.79      A16S
ATOM  32314  O4*  A   A1531     188.243 116.719 -31.413  1.00 84.79      A16S
ATOM  32315  C1*  A   A1531     189.330 117.209 -32.189  1.00 84.79      A16S
ATOM  32316  N9   A   A1531     188.973 117.085 -33.608  1.00 79.34      A16S
ATOM  32317  C4   A   A1531     189.826 116.886 -34.669  1.00 79.34      A16S
ATOM  32318  N3   A   A1531     191.167 116.777 -34.637  1.00 79.34      A16S
ATOM  32319  C2   A   A1531     191.650 116.565 -35.860  1.00 79.34      A16S
ATOM  32320  N1   A   A1531     190.992 116.458 -37.024  1.00 79.34      A16S
ATOM  32321  C6   A   A1531     189.644 116.578 -37.019  1.00 79.34      A16S
ATOM  32322  N6   A   A1531     188.976 116.468 -38.175  1.00 79.34      A16S
ATOM  32323  C5   A   A1531     189.015 116.807 -35.792  1.00 79.34      A16S
ATOM  32324  N7   A   A1531     187.682 116.972 -35.452  1.00 79.34      A16S
ATOM  32325  C8   A   A1531     187.708 117.134 -34.154  1.00 79.34      A16S
ATOM  32326  C2*  A   A1531     189.589 118.651 -31.762  1.00 84.79      A16S
ATOM  32327  O2*  A   A1531     190.607 118.656 -30.777  1.00 84.79      A16S
ATOM  32328  C3*  A   A1531     188.209 119.077 -31.263  1.00 84.79      A16S
ATOM  32329  O3*  A   A1531     188.293 120.148 -30.321  1.00 84.79      A16S
ATOM  32330  P    U   A1532     188.221 121.671 -30.836  1.00 85.89      A16S
ATOM  32331  O1P  U   A1532     188.419 122.553 -29.654  1.00 98.12      A16S
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ATOM  32332  O2P U   A1532     186.988 121.813 -31.656  1.00 98.12      A16S
ATOM  32333  O5* U   A1532     189.478 121.826 -31.806  1.00 85.89      A16S
ATOM  32334  C5* U   A1532     190.790 122.182 -31.300  1.00 85.89      A16S
ATOM  32335  C4* U   A1532     191.759 122.383 -32.448  1.00 85.89      A16S
ATOM  32336  O4* U   A1532     191.810 121.154 -33.224  1.00 85.89      A16S
ATOM  32337  C1* U   A1532     191.906 121.461 -34.606  1.00 85.89      A16S
ATOM  32338  N1  U   A1532     190.738 120.891 -35.298  1.00 98.12      A16S
ATOM  32339  C6  U   A1532     189.565 120.629 -34.627  1.00 98.12      A16S
ATOM  32340  C2  U   A1532     190.849 120.637 -36.656  1.00 98.12      A16S
ATOM  32341  O2  U   A1532     191.868 120.847 -37.294  1.00 98.12      A16S
ATOM  32342  N3  U   A1532     189.720 120.130 -37.242  1.00 98.12      A16S
ATOM  32343  C4  U   A1532     188.522 119.854 -36.630  1.00 98.12      A16S
ATOM  32344  O4  U   A1532     187.607 119.372 -37.291  1.00 98.12      A16S
ATOM  32345  C5  U   A1532     188.485 120.137 -35.231  1.00 98.12      A16S
ATOM  32346  C2* U   A1532     191.986 122.986 -34.757  1.00 85.89      A16S
ATOM  32347  O2* U   A1532     193.322 123.404 -34.970  1.00 85.89      A16S
ATOM  32348  C3* U   A1532     191.367 123.469 -33.447  1.00 85.89      A16S
ATOM  32349  O3* U   A1532     191.846 124.765 -33.072  1.00 85.89      A16S
ATOM  32350  P   C   A1533     190.956 126.067 -33.387  1.00199.80      A16S
ATOM  32351  O1P C   A1533     189.530 125.663 -33.273  1.00200.96      A16S
ATOM  32352  O2P C   A1533     191.461 127.195 -32.568  1.00200.96      A16S
ATOM  32353  O5* C   A1533     191.249 126.408 -34.917  1.00199.80      A16S
ATOM  32354  C5* C   A1533     190.246 127.071 -35.716  1.00199.80      A16S
ATOM  32355  C4* C   A1533     190.848 127.674 -36.970  1.00199.80      A16S
ATOM  32356  O4* C   A1533     191.657 128.835 -36.650  1.00199.80      A16S
ATOM  32357  C1* C   A1533     192.659 128.992 -37.640  1.00199.80      A16S
ATOM  32358  N1  C   A1533     193.979 129.148 -36.992  1.00200.96      A16S
ATOM  32359  C6  C   A1533     194.716 130.276 -37.223  1.00200.96      A16S
ATOM  32360  C2  C   A1533     194.484 128.132 -36.145  1.00200.96      A16S
ATOM  32361  O2  C   A1533     193.802 127.116 -35.930  1.00200.96      A16S
ATOM  32362  N3  C   A1533     195.704 128.293 -35.584  1.00200.96      A16S
ATOM  32363  C4  C   A1533     196.413 129.399 -35.829  1.00200.96      A16S
ATOM  32364  N4  C   A1533     197.614 129.511 -35.258  1.00200.96      A16S
ATOM  32365  C5  C   A1533     195.923 130.441 -36.670  1.00200.96      A16S
ATOM  32366  C2* C   A1533     192.551 127.825 -38.626  1.00199.80      A16S
ATOM  32367  O2* C   A1533     191.878 128.271 -39.789  1.00199.80      A16S
ATOM  32368  C3* C   A1533     191.758 126.798 -37.815  1.00199.80      A16S
ATOM  32369  O3* C   A1533     191.023 125.903 -38.641  1.00199.80      A16S
ATOM  32370  P   A   A1534     191.642 124.461 -38.999  1.00200.96      A16S
ATOM  32371  O1P A   A1534     190.572 123.674 -39.669  1.00200.96      A16S
ATOM  32372  O2P A   A1534     192.296 123.917 -37.778  1.00200.96      A16S
ATOM  32373  O5* A   A1534     192.777 124.791 -40.070  1.00200.96      A16S
ATOM  32374  C5* A   A1534     192.487 125.612 -41.222  1.00200.96      A16S
ATOM  32375  C4* A   A1534     193.679 125.673 -42.153  1.00200.96      A16S
ATOM  32376  O4* A   A1534     194.786 126.367 -41.524  1.00200.96      A16S
ATOM  32377  C1* A   A1534     196.010 125.871 -42.049  1.00200.96      A16S
ATOM  32378  N9  A   A1534     196.885 125.477 -40.941  1.00200.96      A16S
ATOM  32379  C4  A   A1534     198.253 125.629 -40.904  1.00200.96      A16S
ATOM  32380  N3  A   A1534     199.043 126.165 -41.854  1.00200.96      A16S
ATOM  32381  C2  A   A1534     200.320 126.141 -41.474  1.00200.96      A16S
ATOM  32382  N1  A   A1534     200.859 125.677 -40.338  1.00200.96      A16S
ATOM  32383  C6  A   A1534     200.040 125.145 -39.403  1.00200.96      A16S
ATOM  32384  N6  A   A1534     200.580 124.683 -38.271  1.00200.96      A16S
ATOM  32385  C5  A   A1534     198.659 125.112 -39.685  1.00200.96      A16S
ATOM  32386  N7  A   A1534     197.567 124.645 -38.962  1.00200.96      A16S
ATOM  32387  C8  A   A1534     196.543 124.884 -39.746  1.00200.96      A16S
ATOM  32388  C2* A   A1534     195.687 124.732 -43.023  1.00200.96      A16S
ATOM  32389  O2* A   A1534     195.730 125.238 -44.342  1.00200.96      A16S
ATOM  32390  C3* A   A1534     194.277 124.346 -42.589  1.00200.96      A16S
ATOM  32391  O3* A   A1534     193.488 123.507 -43.445  1.00200.96      A16S
TER   32391       A  A1534                                              A16S
ATOM  32392  O5* UNK X    1    209.305 111.131 -35.563  1.00147.68      XMES
ATOM  32393  C5* UNK X    1    208.147 111.405 -36.360  1.00147.68      XMES
ATOM  32394  C4* UNK X    1    207.499 110.159 -36.924  1.00147.68      XMES
ATOM  32395  O4* UNK X    1    208.518 109.338 -37.549  1.00147.68      XMES
ATOM  32396  C1* UNK X    1    208.192 107.967 -37.388  1.00147.68      XMES
ATOM  32397  N1  UNK X    1    209.323 107.265 -36.743  1.00121.19      XMES
ATOM  32398  C6  UNK X    1    210.330 107.961 -36.128  1.00121.19      XMES
ATOM  32399  C2  UNK X    1    209.354 105.857 -36.773  1.00121.19      XMES
ATOM  32400  O2  UNK X    1    208.430 105.240 -37.334  1.00121.19      XMES
ATOM  32401  N3  UNK X    1    210.387 105.206 -36.190  1.00121.19      XMES
ATOM  32402  C4  UNK X    1    211.362 105.897 -35.595  1.00121.19      XMES
ATOM  32403  N4  UNK X    1    212.361 105.208 -35.035  1.00121.19      XMES
ATOM  32404  C5  UNK X    1    211.357 107.324 -35.549  1.00121.19      XMES
ATOM  32405  C2* UNK X    1    206.874 107.876 -36.612  1.00147.68      XMES
ATOM  32406  O2* UNK X    1    205.810 107.667 -37.520  1.00147.68      XMES
ATOM  32407  C3* UNK X    1    206.817 109.235 -35.920  1.00147.68      XMES
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ATOM  32408  O3* UNK X   1     205.465 109.627 -35.660  1.00147.68      XMES
ATOM  32409  P   UNK X   2     204.811 109.352 -34.212  1.00166.71      XMES
ATOM  32410  O1P UNK X   2     203.351 109.611 -34.324  1.00161.27      XMES
ATOM  32411  O2P UNK X   2     205.607 110.091 -33.199  1.00161.27      XMES
ATOM  32412  O5* UNK X   2     205.015 107.787 -33.975  1.00166.71      XMES
ATOM  32413  C5* UNK X   2     204.262 106.816 -34.730  1.00166.71      XMES
ATOM  32414  C4* UNK X   2     204.688 105.413 -34.358  1.00166.71      XMES
ATOM  32415  O4* UNK X   2     206.094 105.246 -34.672  1.00166.71      XMES
ATOM  32416  C1* UNK X   2     206.709 104.414 -33.699  1.00166.71      XMES
ATOM  32417  N1  UNK X   2     207.791 105.173 -33.042  1.00161.27      XMES
ATOM  32418  C6  UNK X   2     208.080 106.473 -33.407  1.00161.27      XMES
ATOM  32419  C2  UNK X   2     208.526 104.540 -32.043  1.00161.27      XMES
ATOM  32420  O2  UNK X   2     208.302 103.399 -31.668  1.00161.27      XMES
ATOM  32421  N3  UNK X   2     209.532 105.298 -31.496  1.00161.27      XMES
ATOM  32422  C4  UNK X   2     209.874 106.593 -31.826  1.00161.27      XMES
ATOM  32423  O4  UNK X   2     210.829 107.129 -31.260  1.00161.27      XMES
ATOM  32424  C5  UNK X   2     209.067 107.182 -32.848  1.00161.27      XMES
ATOM  32425  C2* UNK X   2     205.618 103.944 -32.735  1.00166.71      XMES
ATOM  32426  O2* UNK X   2     205.137 102.675 -33.142  1.00166.71      XMES
ATOM  32427  C3* UNK X   2     204.580 105.049 -32.885  1.00166.71      XMES
ATOM  32428  O3* UNK X   2     203.283 104.590 -32.531  1.00166.71      XMES
ATOM  32429  P   UNK X   3     202.520 105.260 -31.286  1.00176.19      XMES
ATOM  32430  O1P UNK X   3     201.356 104.386 -30.958  1.00106.09      XMES
ATOM  32431  O2P UNK X   3     202.297 106.687 -31.632  1.00106.09      XMES
ATOM  32432  O5* UNK X   3     203.580 105.228 -30.092  1.00176.19      XMES
ATOM  32433  C5* UNK X   3     204.049 103.983 -29.527  1.00176.19      XMES
ATOM  32434  C4* UNK X   3     205.175 104.242 -28.544  1.00176.19      XMES
ATOM  32435  O4* UNK X   3     206.301 104.823 -29.250  1.00176.19      XMES
ATOM  32436  C1* UNK X   3     206.962 105.754 -28.411  1.00176.19      XMES
ATOM  32437  N1  UNK X   3     207.035 107.051 -29.109  1.00106.09      XMES
ATOM  32438  C6  UNK X   3     205.967 107.539 -29.830  1.00106.09      XMES
ATOM  32439  C2  UNK X   3     208.226 107.775 -29.023  1.00106.09      XMES
ATOM  32440  O2  UNK X   3     209.202 107.395 -28.392  1.00106.09      XMES
ATOM  32441  N3  UNK X   3     208.232 108.965 -29.708  1.00106.09      XMES
ATOM  32442  C4  UNK X   3     207.203 109.502 -30.453  1.00106.09      XMES
ATOM  32443  O4  UNK X   3     207.380 110.571 -31.048  1.00106.09      XMES
ATOM  32444  C5  UNK X   3     206.009 108.705 -30.485  1.00106.09      XMES
ATOM  32445  C2* UNK X   3     206.242 105.778 -27.058  1.00176.19      XMES
ATOM  32446  O2* UNK X   3     206.950 104.968 -26.139  1.00176.19      XMES
ATOM  32447  C3* UNK X   3     204.865 105.217 -27.414  1.00176.19      XMES
ATOM  32448  O3* UNK X   3     204.271 104.538 -26.302  1.00176.19      XMES
ATOM  32449  P   U   X   4     202.901 105.091 -25.653  1.00 60.45      XMES
ATOM  32450  O1P U   X   4     201.928 105.251 -26.772  1.00 57.48      XMES
ATOM  32451  O2P U   X   4     203.216 106.268 -24.793  1.00 57.48      XMES
ATOM  32452  O5* U   X   4     202.426 103.888 -24.712  1.00 60.45      XMES
ATOM  32453  C5* U   X   4     201.783 102.726 -25.269  1.00 60.45      XMES
ATOM  32454  C4* U   X   4     202.098 101.490 -24.453  1.00 60.45      XMES
ATOM  32455  O4* U   X   4     203.527 101.267 -24.447  1.00 60.45      XMES
ATOM  32456  C1* U   X   4     203.923 100.728 -23.197  1.00 60.45      XMES
ATOM  32457  N1  U   X   4     204.840 101.676 -22.548  1.00 57.48      XMES
ATOM  32458  C6  U   X   4     205.046 102.931 -23.065  1.00 57.48      XMES
ATOM  32459  C2  U   X   4     205.476 101.270 -21.386  1.00 57.48      XMES
ATOM  32460  O2  U   X   4     205.329 100.157 -20.894  1.00 57.48      XMES
ATOM  32461  N3  U   X   4     206.284 102.214 -20.815  1.00 57.48      XMES
ATOM  32462  C4  U   X   4     206.520 103.491 -21.270  1.00 57.48      XMES
ATOM  32463  O4  U   X   4     207.241 104.245 -20.613  1.00 57.48      XMES
ATOM  32464  C5  U   X   4     205.840 103.827 -22.481  1.00 57.48      XMES
ATOM  32465  C2* U   X   4     202.665 100.528 -22.355  1.00 60.45      XMES
ATOM  32466  O2* U   X   4     202.233  99.192 -22.454  1.00 60.45      XMES
ATOM  32467  C3* U   X   4     201.714 101.535 -22.984  1.00 60.45      XMES
ATOM  32468  O3* U   X   4     200.358 101.183 -22.772  1.00 60.45      XMES
ATOM  32469  P   C   X   5     199.468 102.038 -21.746  1.00 46.59      XMES
ATOM  32470  O1P C   X   5     198.076 101.586 -21.975  1.00 47.60      XMES
ATOM  32471  O2P C   X   5     199.806 103.489 -21.871  1.00 47.60      XMES
ATOM  32472  O5* C   X   5     199.928 101.534 -20.308  1.00 46.59      XMES
ATOM  32473  C5* C   X   5     199.792 100.162 -19.940  1.00 46.59      XMES
ATOM  32474  C4* C   X   5     200.675  99.843 -18.757  1.00 46.59      XMES
ATOM  32475  O4* C   X   5     202.048 100.195 -19.065  1.00 46.59      XMES
ATOM  32476  C1* C   X   5     202.706 100.629 -17.891  1.00 46.59      XMES
ATOM  32477  N1  C   X   5     203.232 101.993 -18.106  1.00 47.60      XMES
ATOM  32478  C6  C   X   5     202.985 102.675 -19.268  1.00 47.60      XMES
ATOM  32479  C2  C   X   5     204.018 102.576 -17.100  1.00 47.60      XMES
ATOM  32480  O2  C   X   5     204.180 101.952 -16.022  1.00 47.60      XMES
ATOM  32481  N3  C   X   5     204.571 103.801 -17.317  1.00 47.60      XMES
ATOM  32482  C4  C   X   5     204.336 104.445 -18.464  1.00 47.60      XMES
ATOM  32483  N4  C   X   5     204.901 105.644 -18.641  1.00 47.60      XMES
ATOM  32484  C5  C   X   5     203.509 103.889 -19.486  1.00 47.60      XMES
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ATOM  32485  C2*  C    X    5      201.714 100.517 -16.738  1.00 46.59      XMES
ATOM  32486  O2*  C    X    5      201.904  99.258 -16.135  1.00 46.59      XMES
ATOM  32487  C3*  C    X    5      200.382 100.585 -17.468  1.00 46.59      XMES
ATOM  32488  O3*  C    X    5      199.360  99.945 -16.728  1.00 46.59      XMES
ATOM  32489  P    U    X    6      198.384 100.825 -15.819  1.00 73.04      XMES
ATOM  32490  O1P  U    X    6      197.351  99.905 -15.299  1.00 45.37      XMES
ATOM  32491  O2P  U    X    6      197.981 102.023 -16.590  1.00 45.37      XMES
ATOM  32492  O5*  U    X    6      199.314 101.319 -14.625  1.00 73.04      XMES
ATOM  32493  C5*  U    X    6      199.650 100.454 -13.517  1.00 73.04      XMES
ATOM  32494  C4*  U    X    6      200.509 101.204 -12.525  1.00 73.04      XMES
ATOM  32495  O4*  U    X    6      201.652 101.741 -13.235  1.00 73.04      XMES
ATOM  32496  C1*  U    X    6      202.018 102.990 -12.678  1.00 73.04      XMES
ATOM  32497  N1   U    X    6      202.077 103.988 -13.764  1.00 45.37      XMES
ATOM  32498  C6   U    X    6      201.335 103.841 -14.916  1.00 45.37      XMES
ATOM  32499  C2   U    X    6      202.918 105.078 -13.604  1.00 45.37      XMES
ATOM  32500  O2   U    X    6      203.585 105.258 -12.607  1.00 45.37      XMES
ATOM  32501  N3   U    X    6      202.949 105.951 -14.659  1.00 45.37      XMES
ATOM  32502  C4   U    X    6      202.244 105.856 -15.835  1.00 45.37      XMES
ATOM  32503  O4   U    X    6      202.382 106.730 -16.700  1.00 45.37      XMES
ATOM  32504  C5   U    X    6      201.393 104.711 -15.928  1.00 45.37      XMES
ATOM  32505  C2*  U    X    6      201.056 103.295 -11.521  1.00 73.04      XMES
ATOM  32506  O2*  U    X    6      201.633 102.853 -10.306  1.00 73.04      XMES
ATOM  32507  C3*  U    X    6      199.869 102.419 -11.868  1.00 73.04      XMES
ATOM  32508  O3*  U    X    6      198.975 102.175 -10.771  1.00 73.04      XMES
TER   32508       U    X    6                                              XMES
ATOM  32509  CB   VAL  B    7      148.574 170.825 -21.998  1.00121.48      BS2
ATOM  32510  CG1  VAL  B    7      149.615 170.869 -20.891  1.00121.48      BS2
ATOM  32511  CG2  VAL  B    7      147.781 172.128 -22.025  1.00121.48      BS2
ATOM  32512  C    VAL  B    7      148.211 170.202 -24.401  1.00155.33      BS2
ATOM  32513  O    VAL  B    7      147.013 170.215 -24.106  1.00155.33      BS2
ATOM  32514  N    VAL  B    7      150.061 171.779 -23.786  1.00155.33      BS2
ATOM  32515  CA   VAL  B    7      149.269 170.586 -23.368  1.00155.33      BS2
ATOM  32516  N    LYS  B    8      148.653 169.859 -25.611  1.00 90.74      BS2
ATOM  32517  CA   LYS  B    8      147.726 169.468 -26.673  1.00 90.74      BS2
ATOM  32518  CB   LYS  B    8      146.771 170.635 -26.983  1.00126.13      BS2
ATOM  32519  CG   LYS  B    8      147.341 172.029 -26.704  1.00126.13      BS2
ATOM  32520  CD   LYS  B    8      148.658 172.288 -27.429  1.00126.13      BS2
ATOM  32521  CE   LYS  B    8      149.256 173.627 -27.018  1.00126.13      BS2
ATOM  32522  NZ   LYS  B    8      150.537 173.920 -27.721  1.00126.13      BS2
ATOM  32523  C    LYS  B    8      148.363 168.970 -27.981  1.00 90.74      BS2
ATOM  32524  O    LYS  B    8      148.935 167.874 -28.045  1.00 90.74      BS2
ATOM  32525  N    GLU  B    9      148.233 169.794 -29.018  1.00157.46      BS2
ATOM  32526  CA   GLU  B    9      148.747 169.516 -30.355  1.00157.46      BS2
ATOM  32527  CB   GLU  B    9      150.273 169.374 -30.338  1.00142.38      BS2
ATOM  32528  CG   GLU  B    9      150.980 170.085 -31.501  1.00142.38      BS2
ATOM  32529  CD   GLU  B    9      150.672 169.483 -32.869  1.00142.38      BS2
ATOM  32530  OE1  GLU  B    9      149.479 169.347 -33.215  1.00142.38      BS2
ATOM  32531  OE2  GLU  B    9      151.628 169.155 -33.607  1.00142.38      BS2
ATOM  32532  C    GLU  B    9      148.116 168.260 -30.934  1.00157.46      BS2
ATOM  32533  O    GLU  B    9      148.441 167.145 -30.531  1.00157.46      BS2
ATOM  32534  N    LEU  B   10      147.202 168.460 -31.878  1.00103.35      BS2
ATOM  32535  CA   LEU  B   10      146.512 167.364 -32.543  1.00103.35      BS2
ATOM  32536  CB   LEU  B   10      145.090 167.790 -32.925  1.00157.21      BS2
ATOM  32537  CG   LEU  B   10      144.157 166.745 -33.553  1.00157.21      BS2
ATOM  32538  CD1  LEU  B   10      142.735 167.285 -33.555  1.00157.21      BS2
ATOM  32539  CD2  LEU  B   10      144.606 166.398 -34.971  1.00157.21      BS2
ATOM  32540  C    LEU  B   10      147.294 166.964 -33.792  1.00103.35      BS2
ATOM  32541  O    LEU  B   10      147.766 165.834 -33.903  1.00103.35      BS2
ATOM  32542  N    LEU  B   11      147.412 167.890 -34.739  1.00121.32      BS2
ATOM  32543  CA   LEU  B   11      148.158 167.617 -35.957  1.00121.32      BS2
ATOM  32544  CB   LEU  B   11      148.000 168.765 -36.954  1.00163.67      BS2
ATOM  32545  CG   LEU  B   11      146.574 169.066 -37.423  1.00163.67      BS2
ATOM  32546  CD1  LEU  B   11      146.595 170.200 -38.440  1.00163.67      BS2
ATOM  32547  CD2  LEU  B   11      145.963 167.817 -38.035  1.00163.67      BS2
ATOM  32548  C    LEU  B   11      149.610 167.491 -35.532  1.00121.32      BS2
ATOM  32549  O    LEU  B   11      150.443 168.348 -35.843  1.00121.32      BS2
ATOM  32550  N    GLU  B   12      149.900 166.418 -34.802  1.00100.04      BS2
ATOM  32551  CA   GLU  B   12      151.242 166.173 -34.305  1.00100.04      BS2
ATOM  32552  CB   GLU  B   12      151.201 165.317 -33.040  1.00134.10      BS2
ATOM  32553  CG   GLU  B   12      152.520 165.321 -32.301  1.00134.10      BS2
ATOM  32554  CD   GLU  B   12      153.237 166.657 -32.441  1.00134.10      BS2
ATOM  32555  OE1  GLU  B   12      153.869 166.899 -33.497  1.00134.10      BS2
ATOM  32556  OE2  GLU  B   12      153.154 167.474 -31.499  1.00134.10      BS2
ATOM  32557  C    GLU  B   12      152.134 165.516 -35.340  1.00100.04      BS2
ATOM  32558  O    GLU  B   12      153.235 165.058 -35.029  1.00100.04      BS2
ATOM  32559  N    ALA  B   13      151.659 165.482 -36.579  1.00156.77      BS2
ATOM  32560  CA   ALA  B   13      152.439 164.899 -37.657  1.00156.77      BS2
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ATOM  32561  CB  ALA B  13     151.656 164.957 -38.970  1.00 55.75      BS2
ATOM  32562  C   ALA B  13     153.739 165.695 -37.765  1.00156.77      BS2
ATOM  32563  O   ALA B  13     154.546 165.466 -38.667  1.00156.77      BS2
ATOM  32564  N   GLY B  14     153.928 166.634 -36.838  1.00126.53      BS2
ATOM  32565  CA  GLY B  14     155.135 167.437 -36.825  1.00126.53      BS2
ATOM  32566  C   GLY B  14     156.297 166.481 -36.943  1.00126.53      BS2
ATOM  32567  O   GLY B  14     157.374 166.844 -37.406  1.00126.53      BS2
ATOM  32568  N   VAL B  15     156.056 165.247 -36.507  1.00158.43      BS2
ATOM  32569  CA  VAL B  15     157.031 164.159 -36.551  1.00158.43      BS2
ATOM  32570  CB  VAL B  15     158.184 164.372 -35.540  1.00 68.02      BS2
ATOM  32571  CG1 VAL B  15     159.496 164.510 -36.289  1.00 68.02      BS2
ATOM  32572  CG2 VAL B  15     157.921 165.612 -34.672  1.00 68.02      BS2
ATOM  32573  C   VAL B  15     156.297 162.856 -36.220  1.00158.43      BS2
ATOM  32574  O   VAL B  15     155.245 162.586 -36.794  1.00158.43      BS2
ATOM  32575  N   HIS B  16     156.846 162.062 -35.301  1.00101.36      BS2
ATOM  32576  CA  HIS B  16     156.237 160.796 -34.876  1.00101.36      BS2
ATOM  32577  CB  HIS B  16     155.111 161.047 -33.877  1.00188.97      BS2
ATOM  32578  CG  HIS B  16     155.495 161.954 -32.757  1.00188.97      BS2
ATOM  32579  CD2 HIS B  16     155.710 161.708 -31.444  1.00188.97      BS2
ATOM  32580  ND1 HIS B  16     155.728 163.299 -32.939  1.00188.97      BS2
ATOM  32581  CE1 HIS B  16     156.070 163.844 -31.786  1.00188.97      BS2
ATOM  32582  NE2 HIS B  16     156.068 162.900 -30.863  1.00188.97      BS2
ATOM  32583  C   HIS B  16     155.677 159.971 -36.019  1.00101.36      BS2
ATOM  32584  O   HIS B  16     156.271 158.966 -36.410  1.00101.36      BS2
ATOM  32585  N   PHE B  17     154.523 160.411 -36.526  1.00100.51      BS2
ATOM  32586  CA  PHE B  17     153.809 159.777 -37.631  1.00100.51      BS2
ATOM  32587  CB  PHE B  17     154.031 160.578 -38.939  1.00146.48      BS2
ATOM  32588  CG  PHE B  17     155.429 160.467 -39.517  1.00146.48      BS2
ATOM  32589  CD1 PHE B  17     156.555 160.758 -38.749  1.00146.48      BS2
ATOM  32590  CD2 PHE B  17     155.616 160.052 -40.833  1.00146.48      BS2
ATOM  32591  CE1 PHE B  17     157.843 160.631 -39.281  1.00146.48      BS2
ATOM  32592  CE2 PHE B  17     156.902 159.924 -41.373  1.00146.48      BS2
ATOM  32593  CZ  PHE B  17     158.015 160.213 -40.595  1.00146.48      BS2
ATOM  32594  C   PHE B  17     154.203 158.310 -37.801  1.00100.51      BS2
ATOM  32595  O   PHE B  17     153.447 157.408 -37.438  1.00100.51      BS2
ATOM  32596  N   GLY B  18     155.392 158.077 -38.341  1.00 87.82      BS2
ATOM  32597  CA  GLY B  18     155.870 156.728 -38.530  1.00 87.82      BS2
ATOM  32598  C   GLY B  18     157.314 156.624 -38.091  1.00 87.82      BS2
ATOM  32599  O   GLY B  18     157.958 157.640 -37.798  1.00 87.82      BS2
ATOM  32600  N   HIS B  19     157.809 155.388 -38.037  1.00141.38      BS2
ATOM  32601  CA  HIS B  19     159.188 155.106 -37.656  1.00141.38      BS2
ATOM  32602  CB  HIS B  19     159.496 155.683 -36.270  1.00200.96      BS2
ATOM  32603  CG  HIS B  19     160.905 155.446 -35.824  1.00200.96      BS2
ATOM  32604  CD2 HIS B  19     161.412 155.048 -34.633  1.00200.96      BS2
ATOM  32605  ND1 HIS B  19     161.986 155.609 -36.664  1.00200.96      BS2
ATOM  32606  CE1 HIS B  19     163.097 155.315 -36.012  1.00200.96      BS2
ATOM  32607  NE2 HIS B  19     162.776 154.972 -34.778  1.00200.96      BS2
ATOM  32608  C   HIS B  19     159.508 153.611 -37.674  1.00141.38      BS2
ATOM  32609  O   HIS B  19     158.612 152.770 -37.636  1.00141.38      BS2
ATOM  32610  N   GLU B  20     160.802 153.305 -37.741  1.00 91.39      BS2
ATOM  32611  CA  GLU B  20     161.317 151.938 -37.764  1.00 91.39      BS2
ATOM  32612  CB  GLU B  20     160.967 151.208 -36.464  1.00 76.48      BS2
ATOM  32613  CG  GLU B  20     161.349 151.964 -35.189  1.00 76.48      BS2
ATOM  32614  CD  GLU B  20     162.845 151.972 -34.885  1.00 76.48      BS2
ATOM  32615  OE1 GLU B  20     163.651 152.189 -35.812  1.00 76.48      BS2
ATOM  32616  OE2 GLU B  20     163.214 151.777 -33.705  1.00 76.48      BS2
ATOM  32617  C   GLU B  20     160.783 151.153 -38.953  1.00 91.39      BS2
ATOM  32618  O   GLU B  20     159.580 150.934 -39.077  1.00 91.39      BS2
ATOM  32619  N   ARG B  21     161.693 150.738 -39.827  1.00116.58      BS2
ATOM  32620  CA  ARG B  21     161.347 149.969 -41.016  1.00116.58      BS2
ATOM  32621  CB  ARG B  21     162.621 149.592 -41.780  1.00183.33      BS2
ATOM  32622  CG  ARG B  21     163.730 149.027 -40.897  1.00183.33      BS2
ATOM  32623  CD  ARG B  21     164.374 150.114 -40.038  1.00183.33      BS2
ATOM  32624  NE  ARG B  21     165.123 149.565 -38.910  1.00183.33      BS2
ATOM  32625  CZ  ARG B  21     166.182 148.771 -39.025  1.00183.33      BS2
ATOM  32626  NH1 ARG B  21     166.631 148.428 -40.224  1.00183.33      BS2
ATOM  32627  NH2 ARG B  21     166.792 148.316 -37.938  1.00183.33      BS2
ATOM  32628  C   ARG B  21     160.583 148.708 -40.628  1.00116.58      BS2
ATOM  32629  O   ARG B  21     160.304 148.484 -39.452  1.00116.58      BS2
ATOM  32630  N   LYS B  22     160.246 147.884 -41.616  1.00 91.72      BS2
ATOM  32631  CA  LYS B  22     159.517 146.652 -41.346  1.00 91.72      BS2
ATOM  32632  CB  LYS B  22     158.883 146.122 -42.629  1.00126.11      BS2
ATOM  32633  CG  LYS B  22     157.914 144.984 -42.395  1.00126.11      BS2
ATOM  32634  CD  LYS B  22     157.245 144.557 -43.687  1.00126.11      BS2
ATOM  32635  CE  LYS B  22     156.253 143.434 -43.437  1.00126.11      BS2
ATOM  32636  NZ  LYS B  22     155.584 142.995 -44.690  1.00126.11      BS2
ATOM  32637  C   LYS B  22     160.444 145.600 -40.735  1.00 91.72      BS2
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ATOM  32638  O   LYS B  22     161.378 145.114 -41.373  1.00 91.72      BS2
ATOM  32639  N   ARG B  23     160.173 145.277 -39.479  1.00127.53      BS2
ATOM  32640  CA  ARG B  23     160.933 144.307 -38.698  1.00127.53      BS2
ATOM  32641  CB  ARG B  23     162.421 144.674 -38.695  1.00 79.75      BS2
ATOM  32642  CG  ARG B  23     162.700 146.162 -38.613  1.00 79.75      BS2
ATOM  32643  CD  ARG B  23     162.212 146.730 -37.309  1.00 79.75      BS2
ATOM  32644  NE  ARG B  23     162.924 146.149 -36.178  1.00 79.75      BS2
ATOM  32645  CZ  ARG B  23     162.387 145.956 -34.978  1.00 79.75      BS2
ATOM  32646  NH1 ARG B  23     161.123 146.295 -34.754  1.00 79.75      BS2
ATOM  32647  NH2 ARG B  23     163.117 145.430 -34.002  1.00 79.75      BS2
ATOM  32648  C   ARG B  23     160.322 144.400 -37.301  1.00127.53      BS2
ATOM  32649  O   ARG B  23     160.648 143.642 -36.389  1.00127.53      BS2
ATOM  32650  N   TRP B  24     159.424 145.374 -37.193  1.00 83.18      BS2
ATOM  32651  CA  TRP B  24     158.609 145.710 -36.029  1.00 83.18      BS2
ATOM  32652  CB  TRP B  24     157.169 145.845 -36.514  1.00 59.55      BS2
ATOM  32653  CG  TRP B  24     156.630 144.515 -36.984  1.00 59.55      BS2
ATOM  32654  CD2 TRP B  24     155.260 144.151 -37.160  1.00 59.55      BS2
ATOM  32655  CE2 TRP B  24     155.239 142.825 -37.652  1.00 59.55      BS2
ATOM  32656  CE3 TRP B  24     154.048 144.813 -36.955  1.00 59.55      BS2
ATOM  32657  CD1 TRP B  24     157.363 143.423 -37.360  1.00 59.55      BS2
ATOM  32658  NE1 TRP B  24     156.537 142.405 -37.762  1.00 59.55      BS2
ATOM  32659  CZ2 TRP B  24     154.051 142.152 -37.943  1.00 59.55      BS2
ATOM  32660  CZ3 TRP B  24     152.866 144.142 -37.244  1.00 59.55      BS2
ATOM  32661  CH2 TRP B  24     152.878 142.825 -37.734  1.00 59.55      BS2
ATOM  32662  C   TRP B  24     158.585 144.761 -34.832  1.00 83.18      BS2
ATOM  32663  O   TRP B  24     159.598 144.278 -34.332  1.00 83.18      BS2
ATOM  32664  N   ASN B  25     157.350 144.559 -34.386  1.00 48.02      BS2
ATOM  32665  CA  ASN B  25     156.942 143.696 -33.299  1.00 48.02      BS2
ATOM  32666  CB  ASN B  25     157.232 144.300 -31.935  1.00 37.66      BS2
ATOM  32667  CG  ASN B  25     156.790 143.386 -30.817  1.00 37.66      BS2
ATOM  32668  OD1 ASN B  25     157.460 143.266 -29.787  1.00 37.66      BS2
ATOM  32669  ND2 ASN B  25     155.653 142.715 -31.020  1.00 37.66      BS2
ATOM  32670  C   ASN B  25     155.440 143.646 -33.511  1.00 48.02      BS2
ATOM  32671  O   ASN B  25     154.745 144.645 -33.357  1.00 48.02      BS2
ATOM  32672  N   PRO B  26     154.912 142.476 -33.852  1.00 44.93      BS2
ATOM  32673  CD  PRO B  26     155.525 141.145 -33.901  1.00 40.43      BS2
ATOM  32674  CA  PRO B  26     153.472 142.393 -34.082  1.00 44.93      BS2
ATOM  32675  CB  PRO B  26     153.262 140.921 -34.437  1.00 40.43      BS2
ATOM  32676  CG  PRO B  26     154.641 140.470 -34.897  1.00 40.43      BS2
ATOM  32677  C   PRO B  26     152.591 142.852 -32.929  1.00 44.93      BS2
ATOM  32678  O   PRO B  26     151.448 143.223 -33.147  1.00 44.93      BS2
ATOM  32679  N   LYS B  27     153.098 142.828 -31.704  1.00 46.47      BS2
ATOM  32680  CA  LYS B  27     152.269 143.269 -30.595  1.00 46.47      BS2
ATOM  32681  CB  LYS B  27     152.967 143.008 -29.259  1.00 75.41      BS2
ATOM  32682  CG  LYS B  27     153.033 141.529 -28.919  1.00 75.41      BS2
ATOM  32683  CD  LYS B  27     153.429 141.271 -27.472  1.00 75.41      BS2
ATOM  32684  CE  LYS B  27     153.388 139.775 -27.161  1.00 75.41      BS2
ATOM  32685  NZ  LYS B  27     153.650 139.453 -25.721  1.00 75.41      BS2
ATOM  32686  C   LYS B  27     151.946 144.754 -30.770  1.00 46.47      BS2
ATOM  32687  O   LYS B  27     150.801 145.185 -30.640  1.00 46.47      BS2
ATOM  32688  N   PHE B  28     152.962 145.530 -31.102  1.00 51.93      BS2
ATOM  32689  CA  PHE B  28     152.783 146.950 -31.308  1.00 51.93      BS2
ATOM  32690  CB  PHE B  28     154.155 147.607 -31.470  1.00 64.82      BS2
ATOM  32691  CG  PHE B  28     154.125 149.092 -31.356  1.00 64.82      BS2
ATOM  32692  CD1 PHE B  28     154.270 149.703 -30.119  1.00 64.82      BS2
ATOM  32693  CD2 PHE B  28     153.890 149.878 -32.471  1.00 64.82      BS2
ATOM  32694  CE1 PHE B  28     154.179 151.078 -29.990  1.00 64.82      BS2
ATOM  32695  CE2 PHE B  28     153.794 151.248 -32.357  1.00 64.82      BS2
ATOM  32696  CZ  PHE B  28     153.939 151.855 -31.109  1.00 64.82      BS2
ATOM  32697  C   PHE B  28     151.939 147.177 -32.573  1.00 51.93      BS2
ATOM  32698  O   PHE B  28     151.754 148.313 -33.015  1.00 51.93      BS2
ATOM  32699  N   ALA B  29     151.420 146.102 -33.150  1.00 67.00      BS2
ATOM  32700  CA  ALA B  29     150.632 146.233 -34.368  1.00 67.00      BS2
ATOM  32701  CB  ALA B  29     150.322 144.858 -34.937  1.00103.78      BS2
ATOM  32702  C   ALA B  29     149.336 147.040 -34.219  1.00 67.00      BS2
ATOM  32703  O   ALA B  29     148.872 147.671 -35.179  1.00 67.00      BS2
ATOM  32704  N   ARG B  30     148.736 147.028 -33.035  1.00 95.20      BS2
ATOM  32705  CA  ARG B  30     147.502 147.774 -32.859  1.00 95.20      BS2
ATOM  32706  CB  ARG B  30     146.969 147.608 -31.434  1.00 98.55      BS2
ATOM  32707  CG  ARG B  30     147.779 148.319 -30.372  1.00 98.55      BS2
ATOM  32708  CD  ARG B  30     147.092 148.248 -29.025  1.00 98.55      BS2
ATOM  32709  NE  ARG B  30     147.211 146.929 -28.416  1.00 98.55      BS2
ATOM  32710  CZ  ARG B  30     147.897 146.680 -27.304  1.00 98.55      BS2
ATOM  32711  NH1 ARG B  30     148.529 147.667 -26.678  1.00 98.55      BS2
ATOM  32712  NH2 ARG B  30     147.953 145.446 -26.815  1.00 98.55      BS2
ATOM  32713  C   ARG B  30     147.740 149.253 -33.166  1.00 95.20      BS2
ATOM  32714  O   ARG B  30     147.015 149.846 -33.962  1.00 95.20      BS2
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ATOM  32715  N   TYR B  31     148.776 149.827 -32.556  1.00 74.16      BS2
ATOM  32716  CA  TYR B  31     149.124 151.237 -32.730  1.00 74.16      BS2
ATOM  32717  CB  TYR B  31     150.159 151.646 -31.688  1.00 64.49      BS2
ATOM  32718  CG  TYR B  31     149.712 151.401 -30.287  1.00 64.49      BS2
ATOM  32719  CD1 TYR B  31     150.603 150.941 -29.330  1.00 64.49      BS2
ATOM  32720  CE1 TYR B  31     150.183 150.648 -28.040  1.00 64.49      BS2
ATOM  32721  CD2 TYR B  31     148.385 151.579 -29.922  1.00 64.49      BS2
ATOM  32722  CE2 TYR B  31     147.949 151.290 -28.634  1.00 64.49      BS2
ATOM  32723  CZ  TYR B  31     148.854 150.817 -27.701  1.00 64.49      BS2
ATOM  32724  OH  TYR B  31     148.419 150.452 -26.449  1.00 64.49      BS2
ATOM  32725  C   TYR B  31     149.669 151.625 -34.100  1.00 74.16      BS2
ATOM  32726  O   TYR B  31     150.273 152.690 -34.242  1.00 74.16      BS2
ATOM  32727  N   ILE B  32     149.472 150.789 -35.110  1.00 69.40      BS2
ATOM  32728  CA  ILE B  32     150.002 151.134 -36.417  1.00 69.40      BS2
ATOM  32729  CB  ILE B  32     150.926 150.029 -36.956  1.00 60.43      BS2
ATOM  32730  CG2 ILE B  32     151.435 150.400 -38.348  1.00 60.43      BS2
ATOM  32731  CG1 ILE B  32     152.093 149.836 -35.984  1.00 60.43      BS2
ATOM  32732  CD1 ILE B  32     153.189 148.936 -36.492  1.00 60.43      BS2
ATOM  32733  C   ILE B  32     148.936 151.441 -37.442  1.00 69.40      BS2
ATOM  32734  O   ILE B  32     147.921 150.750 -37.542  1.00 69.40      BS2
ATOM  32735  N   TYR B  33     149.184 152.498 -38.203  1.00 93.01      BS2
ATOM  32736  CA  TYR B  33     148.262 152.927 -39.236  1.00 93.01      BS2
ATOM  32737  CB  TYR B  33     148.466 154.415 -39.534  1.00105.05      BS2
ATOM  32738  CG  TYR B  33     147.352 155.015 -40.347  1.00105.05      BS2
ATOM  32739  CD1 TYR B  33     146.057 155.084 -39.836  1.00105.05      BS2
ATOM  32740  CE1 TYR B  33     145.016 155.610 -40.589  1.00105.05      BS2
ATOM  32741  CD2 TYR B  33     147.582 155.490 -41.636  1.00105.05      BS2
ATOM  32742  CE2 TYR B  33     146.547 156.020 -42.398  1.00105.05      BS2
ATOM  32743  CZ  TYR B  33     145.268 156.076 -41.867  1.00105.05      BS2
ATOM  32744  OH  TYR B  33     144.242 156.608 -42.609  1.00105.05      BS2
ATOM  32745  C   TYR B  33     148.530 152.099 -40.483  1.00 93.01      BS2
ATOM  32746  O   TYR B  33     147.655 151.377 -40.962  1.00 93.01      BS2
ATOM  32747  N   ALA B  34     149.751 152.200 -40.995  1.00 79.47      BS2
ATOM  32748  CA  ALA B  34     150.142 151.456 -42.182  1.00 79.47      BS2
ATOM  32749  CB  ALA B  34     149.282 151.874 -43.359  1.00 42.28      BS2
ATOM  32750  C   ALA B  34     151.614 151.691 -42.496  1.00 79.47      BS2
ATOM  32751  O   ALA B  34     152.287 152.449 -41.800  1.00 79.47      BS2
ATOM  32752  N   GLU B  35     152.108 151.034 -43.540  1.00138.67      BS2
ATOM  32753  CA  GLU B  35     153.500 151.176 -43.944  1.00138.67      BS2
ATOM  32754  CB  GLU B  35     154.195 149.815 -43.949  1.00200.96      BS2
ATOM  32755  CG  GLU B  35     154.061 149.035 -42.660  1.00200.96      BS2
ATOM  32756  CD  GLU B  35     154.684 147.656 -42.756  1.00200.96      BS2
ATOM  32757  OE1 GLU B  35     155.923 147.569 -42.899  1.00200.96      BS2
ATOM  32758  OE2 GLU B  35     153.932 146.659 -42.697  1.00200.96      BS2
ATOM  32759  C   GLU B  35     153.563 151.765 -45.346  1.00138.67      BS2
ATOM  32760  O   GLU B  35     152.974 151.217 -46.277  1.00138.67      BS2
ATOM  32761  N   ARG B  36     154.273 152.880 -45.492  1.00163.73      BS2
ATOM  32762  CA  ARG B  36     154.426 153.532 -46.791  1.00163.73      BS2
ATOM  32763  CB  ARG B  36     153.888 154.965 -46.752  1.00137.21      BS2
ATOM  32764  CG  ARG B  36     152.460 155.151 -46.245  1.00137.21      BS2
ATOM  32765  CD  ARG B  36     152.179 156.652 -46.130  1.00137.21      BS2
ATOM  32766  NE  ARG B  36     151.023 156.985 -45.300  1.00137.21      BS2
ATOM  32767  CZ  ARG B  36     150.799 158.195 -44.793  1.00137.21      BS2
ATOM  32768  NH1 ARG B  36     151.653 159.184 -45.029  1.00137.21      BS2
ATOM  32769  NH2 ARG B  36     149.724 158.418 -44.050  1.00137.21      BS2
ATOM  32770  C   ARG B  36     155.918 153.581 -47.122  1.00163.73      BS2
ATOM  32771  O   ARG B  36     156.714 154.074 -46.321  1.00163.73      BS2
ATOM  32772  N   ASN B  37     156.295 153.084 -48.298  1.00151.64      BS2
ATOM  32773  CA  ASN B  37     157.701 153.078 -48.702  1.00151.64      BS2
ATOM  32774  CB  ASN B  37     158.190 154.508 -48.967  1.00183.96      BS2
ATOM  32775  CG  ASN B  37     157.478 155.167 -50.135  1.00183.96      BS2
ATOM  32776  OD1 ASN B  37     157.588 154.721 -51.277  1.00183.96      BS2
ATOM  32777  ND2 ASN B  37     156.744 156.237 -49.852  1.00183.96      BS2
ATOM  32778  C   ASN B  37     158.524 152.463 -47.575  1.00151.64      BS2
ATOM  32779  O   ASN B  37     159.536 153.024 -47.149  1.00151.64      BS2
ATOM  32780  N   GLY B  38     158.082 151.304 -47.099  1.00109.35      BS2
ATOM  32781  CA  GLY B  38     158.768 150.652 -46.003  1.00109.35      BS2
ATOM  32782  C   GLY B  38     158.457 151.458 -44.760  1.00109.35      BS2
ATOM  32783  O   GLY B  38     157.839 152.519 -44.853  1.00109.35      BS2
ATOM  32784  N   ILE B  39     158.868 150.973 -43.597  1.00 91.51      BS2
ATOM  32785  CA  ILE B  39     158.605 151.701 -42.363  1.00 91.51      BS2
ATOM  32786  CB  ILE B  39     159.162 153.140 -42.442  1.00119.37      BS2
ATOM  32787  CG2 ILE B  39     159.001 153.835 -41.096  1.00119.37      BS2
ATOM  32788  CG1 ILE B  39     160.629 153.106 -42.872  1.00119.37      BS2
ATOM  32789  CD1 ILE B  39     161.256 154.477 -43.053  1.00119.37      BS2
ATOM  32790  C   ILE B  39     157.106 151.799 -42.062  1.00 91.51      BS2
ATOM  32791  O   ILE B  39     156.306 152.196 -42.918  1.00 91.51      BS2
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ATOM  32792  N   HIS B  40     156.731 151.432 -40.841  1.00111.73      BS2
ATOM  32793  CA  HIS B  40     155.340 151.516 -40.431  1.00111.73      BS2
ATOM  32794  CB  HIS B  40     155.084 150.721 -39.151  1.00116.84      BS2
ATOM  32795  CG  HIS B  40     155.368 149.260 -39.276  1.00116.84      BS2
ATOM  32796  CD2 HIS B  40     154.538 148.200 -39.414  1.00116.84      BS2
ATOM  32797  ND1 HIS B  40     156.647 148.748 -39.271  1.00116.84      BS2
ATOM  32798  CE1 HIS B  40     156.592 147.434 -39.399  1.00116.84      BS2
ATOM  32799  NE2 HIS B  40     155.324 147.077 -39.487  1.00116.84      BS2
ATOM  32800  C   HIS B  40     155.071 152.980 -40.151  1.00111.73      BS2
ATOM  32801  O   HIS B  40     155.988 153.801 -40.162  1.00111.73      BS2
ATOM  32802  N   ILE B  41     153.812 153.304 -39.886  1.00 74.95      BS2
ATOM  32803  CA  ILE B  41     153.426 154.674 -39.596  1.00 74.95      BS2
ATOM  32804  CB  ILE B  41     152.866 155.348 -40.841  1.00 79.30      BS2
ATOM  32805  CG2 ILE B  41     152.358 156.731 -40.496  1.00 79.30      BS2
ATOM  32806  CG1 ILE B  41     153.962 155.410 -41.905  1.00 79.30      BS2
ATOM  32807  CD1 ILE B  41     153.477 155.817 -43.249  1.00 79.30      BS2
ATOM  32808  C   ILE B  41     152.390 154.707 -38.495  1.00 74.95      BS2
ATOM  32809  O   ILE B  41     151.193 154.604 -38.752  1.00 74.95      BS2
ATOM  32810  N   ILE B  42     152.878 154.839 -37.266  1.00 89.05      BS2
ATOM  32811  CA  ILE B  42     152.038 154.892 -36.082  1.00 89.05      BS2
ATOM  32812  CB  ILE B  42     152.791 155.575 -34.926  1.00 43.28      BS2
ATOM  32813  CG2 ILE B  42     151.923 155.600 -33.662  1.00 43.28      BS2
ATOM  32814  CG1 ILE B  42     154.100 154.829 -34.658  1.00 43.28      BS2
ATOM  32815  CD1 ILE B  42     154.822 155.303 -33.421  1.00 43.28      BS2
ATOM  32816  C   ILE B  42     150.739 155.647 -36.347  1.00 89.05      BS2
ATOM  32817  O   ILE B  42     150.737 156.664 -37.035  1.00 89.05      BS2
ATOM  32818  N   ASP B  43     149.634 155.139 -35.805  1.00100.35      BS2
ATOM  32819  CA  ASP B  43     148.325 155.764 -35.982  1.00100.35      BS2
ATOM  32820  CB  ASP B  43     147.212 154.751 -35.710  1.00111.81      BS2
ATOM  32821  CG  ASP B  43     145.834 155.368 -35.783  1.00111.81      BS2
ATOM  32822  OD1 ASP B  43     145.564 156.296 -34.995  1.00111.81      BS2
ATOM  32823  OD2 ASP B  43     145.022 154.925 -36.624  1.00111.81      BS2
ATOM  32824  C   ASP B  43     148.176 156.955 -35.049  1.00100.35      BS2
ATOM  32825  O   ASP B  43     147.895 156.806 -33.859  1.00100.35      BS2
ATOM  32826  N   LEU B  44     148.368 158.138 -35.617  1.00124.99      BS2
ATOM  32827  CA  LEU B  44     148.284 159.399 -34.895  1.00124.99      BS2
ATOM  32828  CB  LEU B  44     148.261 160.540 -35.907  1.00131.86      BS2
ATOM  32829  CG  LEU B  44     149.401 160.426 -36.926  1.00131.86      BS2
ATOM  32830  CD1 LEU B  44     149.092 161.266 -38.149  1.00131.86      BS2
ATOM  32831  CD2 LEU B  44     150.715 160.838 -36.273  1.00131.86      BS2
ATOM  32832  C   LEU B  44     147.066 159.471 -33.981  1.00124.99      BS2
ATOM  32833  O   LEU B  44     147.169 159.905 -32.833  1.00124.99      BS2
ATOM  32834  N   GLN B  45     145.917 159.045 -34.495  1.00109.52      BS2
ATOM  32835  CA  GLN B  45     144.680 159.052 -33.721  1.00109.52      BS2
ATOM  32836  CB  GLN B  45     143.602 158.244 -34.449  1.00143.59      BS2
ATOM  32837  CG  GLN B  45     143.450 158.587 -35.926  1.00143.59      BS2
ATOM  32838  CD  GLN B  45     142.603 157.571 -36.683  1.00143.59      BS2
ATOM  32839  OE1 GLN B  45     141.435 157.353 -36.360  1.00143.59      BS2
ATOM  32840  NE2 GLN B  45     143.193 156.944 -37.696  1.00143.59      BS2
ATOM  32841  C   GLN B  45     144.951 158.425 -32.353  1.00109.52      BS2
ATOM  32842  O   GLN B  45     144.809 159.079 -31.315  1.00109.52      BS2
ATOM  32843  N   LYS B  46     145.358 157.158 -32.365  1.00 79.16      BS2
ATOM  32844  CA  LYS B  46     145.650 156.426 -31.135  1.00 79.16      BS2
ATOM  32845  CB  LYS B  46     146.000 154.971 -31.460  1.00169.28      BS2
ATOM  32846  CG  LYS B  46     144.868 154.210 -32.139  1.00169.28      BS2
ATOM  32847  CD  LYS B  46     145.243 152.763 -32.425  1.00169.28      BS2
ATOM  32848  CE  LYS B  46     144.126 152.040 -33.172  1.00169.28      BS2
ATOM  32849  NZ  LYS B  46     144.460 150.616 -33.476  1.00169.28      BS2
ATOM  32850  C   LYS B  46     146.782 157.076 -30.349  1.00 79.16      BS2
ATOM  32851  O   LYS B  46     146.872 156.933 -29.127  1.00 79.16      BS2
ATOM  32852  N   THR B  47     147.653 157.785 -31.051  1.00 75.32      BS2
ATOM  32853  CA  THR B  47     148.749 158.454 -30.381  1.00 75.32      BS2
ATOM  32854  CB  THR B  47     149.556 159.304 -31.350  1.00 80.13      BS2
ATOM  32855  OG1 THR B  47     149.757 158.576 -32.566  1.00 80.13      BS2
ATOM  32856  CG2 THR B  47     150.904 159.647 -30.741  1.00 80.13      BS2
ATOM  32857  C   THR B  47     148.080 159.372 -29.381  1.00 75.32      BS2
ATOM  32858  O   THR B  47     148.354 159.323 -28.180  1.00 75.32      BS2
ATOM  32859  N   MET B  48     147.176 160.196 -29.899  1.00106.57      BS2
ATOM  32860  CA  MET B  48     146.427 161.145 -29.089  1.00106.57      BS2
ATOM  32861  CB  MET B  48     145.331 161.795 -29.937  1.00157.01      BS2
ATOM  32862  CG  MET B  48     145.832 162.635 -31.098  1.00157.01      BS2
ATOM  32863  SD  MET B  48     146.472 164.228 -30.565  1.00157.01      BS2
ATOM  32864  CE  MET B  48     144.955 165.178 -30.489  1.00157.01      BS2
ATOM  32865  C   MET B  48     145.783 160.435 -27.906  1.00106.57      BS2
ATOM  32866  O   MET B  48     146.210 160.585 -26.756  1.00106.57      BS2
ATOM  32867  N   GLU B  49     144.746 159.663 -28.220  1.00 74.54      BS2
ATOM  32868  CA  GLU B  49     143.981 158.903 -27.240  1.00 74.54      BS2
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ATOM  32869  CB  GLU B  49     143.288 157.732 -27.942  1.00179.82      BS2
ATOM  32870  CG  GLU B  49     142.357 158.180 -29.065  1.00179.82      BS2
ATOM  32871  CD  GLU B  49     141.840 157.032 -29.910  1.00179.82      BS2
ATOM  32872  OE1 GLU B  49     141.263 156.083 -29.340  1.00179.82      BS2
ATOM  32873  OE2 GLU B  49     142.003 157.084 -31.148  1.00179.82      BS2
ATOM  32874  C   GLU B  49     144.845 158.400 -26.096  1.00 74.54      BS2
ATOM  32875  O   GLU B  49     144.444 158.453 -24.932  1.00 74.54      BS2
ATOM  32876  N   GLU B  50     146.038 157.927 -26.435  1.00 74.16      BS2
ATOM  32877  CA  GLU B  50     146.955 157.406 -25.435  1.00 74.16      BS2
ATOM  32878  CB  GLU B  50     148.117 156.692 -26.116  1.00105.55      BS2
ATOM  32879  CG  GLU B  50     147.753 155.299 -26.586  1.00105.55      BS2
ATOM  32880  CD  GLU B  50     147.129 154.465 -25.475  1.00105.55      BS2
ATOM  32881  OE1 GLU B  50     147.706 154.438 -24.360  1.00105.55      BS2
ATOM  32882  OE2 GLU B  50     146.070 153.839 -25.720  1.00105.55      BS2
ATOM  32883  C   GLU B  50     147.477 158.479 -24.497  1.00 74.16      BS2
ATOM  32884  O   GLU B  50     147.390 158.334 -23.270  1.00 74.16      BS2
ATOM  32885  N   LEU B  51     148.020 159.546 -25.082  1.00 94.31      BS2
ATOM  32886  CA  LEU B  51     148.558 160.673 -24.324  1.00 94.31      BS2
ATOM  32887  CB  LEU B  51     148.728 161.880 -25.238  1.00 61.55      BS2
ATOM  32888  CG  LEU B  51     149.727 161.783 -26.384  1.00 61.55      BS2
ATOM  32889  CD1 LEU B  51     149.315 162.754 -27.470  1.00 61.55      BS2
ATOM  32890  CD2 LEU B  51     151.134 162.076 -25.886  1.00 61.55      BS2
ATOM  32891  C   LEU B  51     147.589 161.039 -23.214  1.00 94.31      BS2
ATOM  32892  O   LEU B  51     147.941 161.050 -22.029  1.00 94.31      BS2
ATOM  32893  N   GLU B  52     146.361 161.343 -23.627  1.00 94.49      BS2
ATOM  32894  CA  GLU B  52     145.296 161.716 -22.711  1.00 94.49      BS2
ATOM  32895  CB  GLU B  52     143.938 161.516 -23.394  1.00149.54      BS2
ATOM  32896  CG  GLU B  52     142.749 162.055 -22.613  1.00149.54      BS2
ATOM  32897  CD  GLU B  52     142.215 161.071 -21.592  1.00149.54      BS2
ATOM  32898  OE1 GLU B  52     141.379 161.477 -20.754  1.00149.54      BS2
ATOM  32899  OE2 GLU B  52     142.622 159.891 -21.634  1.00149.54      BS2
ATOM  32900  C   GLU B  52     145.391 160.869 -21.448  1.00 94.49      BS2
ATOM  32901  O   GLU B  52     145.720 161.374 -20.368  1.00 94.49      BS2
ATOM  32902  N   ARG B  53     145.129 159.574 -21.602  1.00 70.12      BS2
ATOM  32903  CA  ARG B  53     145.174 158.647 -20.483  1.00 70.12      BS2
ATOM  32904  CB  ARG B  53     144.935 157.216 -20.975  1.00 87.47      BS2
ATOM  32905  CG  ARG B  53     145.081 156.189 -19.871  1.00 87.47      BS2
ATOM  32906  CD  ARG B  53     144.623 154.802 -20.276  1.00 87.47      BS2
ATOM  32907  NE  ARG B  53     144.848 153.861 -19.180  1.00 87.47      BS2
ATOM  32908  CZ  ARG B  53     146.046 153.417 -18.815  1.00 87.47      BS2
ATOM  32909  NH1 ARG B  53     147.130 153.817 -19.468  1.00 87.47      BS2
ATOM  32910  NH2 ARG B  53     146.169 152.597 -17.779  1.00 87.47      BS2
ATOM  32911  C   ARG B  53     146.501 158.710 -19.740  1.00 70.12      BS2
ATOM  32912  O   ARG B  53     146.553 158.647 -18.508  1.00 70.12      BS2
ATOM  32913  N   THR B  54     147.576 158.845 -20.498  1.00 76.63      BS2
ATOM  32914  CA  THR B  54     148.901 158.876 -19.912  1.00 76.63      BS2
ATOM  32915  CB  THR B  54     149.962 158.818 -21.011  1.00 63.10      BS2
ATOM  32916  OG1 THR B  54     149.581 157.824 -21.968  1.00 63.10      BS2
ATOM  32917  CG2 THR B  54     151.312 158.438 -20.427  1.00 63.10      BS2
ATOM  32918  C   THR B  54     149.145 160.096 -19.036  1.00 76.63      BS2
ATOM  32919  O   THR B  54     149.405 159.973 -17.830  1.00 76.63      BS2
ATOM  32920  N   PHE B  55     149.065 161.272 -19.648  1.00 83.96      BS2
ATOM  32921  CA  PHE B  55     149.289 162.506 -18.921  1.00 83.96      BS2
ATOM  32922  CB  PHE B  55     149.056 163.701 -19.840  1.00125.10      BS2
ATOM  32923  CG  PHE B  55     150.084 163.818 -20.926  1.00125.10      BS2
ATOM  32924  CD1 PHE B  55     150.249 162.796 -21.854  1.00125.10      BS2
ATOM  32925  CD2 PHE B  55     150.921 164.926 -20.997  1.00125.10      BS2
ATOM  32926  CE1 PHE B  55     151.231 162.872 -22.831  1.00125.10      BS2
ATOM  32927  CE2 PHE B  55     151.910 165.012 -21.974  1.00125.10      BS2
ATOM  32928  CZ  PHE B  55     152.064 163.982 -22.891  1.00125.10      BS2
ATOM  32929  C   PHE B  55     148.389 162.548 -17.706  1.00 83.96      BS2
ATOM  32930  O   PHE B  55     148.796 163.027 -16.648  1.00 83.96      BS2
ATOM  32931  N   ARG B  56     147.170 162.032 -17.848  1.00 62.76      BS2
ATOM  32932  CA  ARG B  56     146.260 162.003 -16.714  1.00 62.76      BS2
ATOM  32933  CB  ARG B  56     145.042 161.117 -16.992  1.00121.21      BS2
ATOM  32934  CG  ARG B  56     143.972 161.773 -17.850  1.00121.21      BS2
ATOM  32935  CD  ARG B  56     142.620 161.085 -17.675  1.00121.21      BS2
ATOM  32936  NE  ARG B  56     142.617 159.710 -18.171  1.00121.21      BS2
ATOM  32937  CZ  ARG B  56     141.598 158.866 -18.031  1.00121.21      BS2
ATOM  32938  NH1 ARG B  56     140.495 159.255 -17.404  1.00121.21      BS2
ATOM  32939  NH2 ARG B  56     141.678 157.635 -18.522  1.00121.21      BS2
ATOM  32940  C   ARG B  56     147.065 161.424 -15.566  1.00 62.76      BS2
ATOM  32941  O   ARG B  56     147.387 162.123 -14.608  1.00 62.76      BS2
ATOM  32942  N   PHE B  57     147.413 160.148 -15.687  1.00 78.52      BS2
ATOM  32943  CA  PHE B  57     148.202 159.482 -14.663  1.00 78.52      BS2
ATOM  32944  CB  PHE B  57     148.860 158.225 -15.236  1.00 64.45      BS2
ATOM  32945  CG  PHE B  57     149.783 157.536 -14.274  1.00 64.45      BS2
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ATOM  32946  CD1 PHE B  57     149.290 156.978 -13.096  1.00 64.45       BS2
ATOM  32947  CD2 PHE B  57     151.150 157.466 -14.533  1.00 64.45       BS2
ATOM  32948  CE1 PHE B  57     150.149 156.360 -12.185  1.00 64.45       BS2
ATOM  32949  CE2 PHE B  57     152.013 156.854 -13.634  1.00 64.45       BS2
ATOM  32950  CZ  PHE B  57     151.513 156.299 -12.455  1.00 64.45       BS2
ATOM  32951  C   PHE B  57     149.275 160.442 -14.162  1.00 78.52       BS2
ATOM  32952  O   PHE B  57     149.475 160.594 -12.959  1.00 78.52       BS2
ATOM  32953  N   ILE B  58     149.949 161.101 -15.097  1.00 74.64       BS2
ATOM  32954  CA  ILE B  58     151.002 162.047 -14.753  1.00 74.64       BS2
ATOM  32955  CB  ILE B  58     151.534 162.753 -16.011  1.00 90.95       BS2
ATOM  32956  CG2 ILE B  58     152.612 163.754 -15.630  1.00 90.95       BS2
ATOM  32957  CG1 ILE B  58     152.079 161.707 -16.986  1.00 90.95       BS2
ATOM  32958  CD1 ILE B  58     152.632 162.280 -18.264  1.00 90.95       BS2
ATOM  32959  C   ILE B  58     150.519 163.092 -13.752  1.00 74.64       BS2
ATOM  32960  O   ILE B  58     151.136 163.280 -12.702  1.00 74.64       BS2
ATOM  32961  N   GLU B  59     149.417 163.766 -14.078  1.00 90.89       BS2
ATOM  32962  CA  GLU B  59     148.851 164.782 -13.196  1.00 90.89       BS2
ATOM  32963  CB  GLU B  59     147.477 165.233 -13.686  1.00137.74       BS2
ATOM  32964  CG  GLU B  59     147.447 165.823 -15.069  1.00137.74       BS2
ATOM  32965  CD  GLU B  59     146.106 166.456 -15.382  1.00137.74       BS2
ATOM  32966  OE1 GLU B  59     145.730 167.419 -14.679  1.00137.74       BS2
ATOM  32967  OE2 GLU B  59     145.425 165.991 -16.322  1.00137.74       BS2
ATOM  32968  C   GLU B  59     148.682 164.211 -11.797  1.00 90.89       BS2
ATOM  32969  O   GLU B  59     149.423 164.557 -10.874  1.00 90.89       BS2
ATOM  32970  N   ASP B  60     147.690 163.333 -11.657  1.00 72.15       BS2
ATOM  32971  CA  ASP B  60     147.377 162.693 -10.385  1.00 72.15       BS2
ATOM  32972  CB  ASP B  60     146.668 161.361 -10.634  1.00157.66       BS2
ATOM  32973  CG  ASP B  60     146.229 160.692  -9.352  1.00157.66       BS2
ATOM  32974  OD1 ASP B  60     147.103 160.224  -8.595  1.00157.66       BS2
ATOM  32975  OD2 ASP B  60     145.008 160.642  -9.098  1.00157.66       BS2
ATOM  32976  C   ASP B  60     148.614 162.474  -9.514  1.00 72.15       BS2
ATOM  32977  O   ASP B  60     148.537 162.547  -8.285  1.00 72.15       BS2
ATOM  32978  N   LEU B  61     149.747 162.197 -10.152  1.00110.02       BS2
ATOM  32979  CA  LEU B  61     150.996 161.986  -9.434  1.00110.02       BS2
ATOM  32980  CB  LEU B  61     151.956 161.161 -10.265  1.00113.17       BS2
ATOM  32981  CG  LEU B  61     151.330 159.978 -10.974  1.00113.17       BS2
ATOM  32982  CD1 LEU B  61     152.391 159.339 -11.843  1.00113.17       BS2
ATOM  32983  CD2 LEU B  61     150.752 159.003  -9.957  1.00113.17       BS2
ATOM  32984  C   LEU B  61     151.614 163.344  -9.221  1.00110.02       BS2
ATOM  32985  O   LEU B  61     151.982 163.712  -8.108  1.00110.02       BS2
ATOM  32986  N   ALA B  62     151.745 164.077 -10.317  1.00 78.34       BS2
ATOM  32987  CA  ALA B  62     152.307 165.409 -10.272  1.00 78.34       BS2
ATOM  32988  CB  ALA B  62     152.093 166.105 -11.608  1.00167.88       BS2
ATOM  32989  C   ALA B  62     151.617 166.181  -9.154  1.00 78.34       BS2
ATOM  32990  O   ALA B  62     152.242 166.501  -8.142  1.00 78.34       BS2
ATOM  32991  N   MET B  63     150.327 166.462  -9.330  1.00151.57       BS2
ATOM  32992  CA  MET B  63     149.560 167.199  -8.329  1.00151.57       BS2
ATOM  32993  CB  MET B  63     148.217 167.663  -8.908  1.00141.12       BS2
ATOM  32994  CG  MET B  63     147.273 166.544  -9.319  1.00141.12       BS2
ATOM  32995  SD  MET B  63     145.671 167.156  -9.907  1.00141.12       BS2
ATOM  32996  CE  MET B  63     144.754 167.224  -8.360  1.00141.12       BS2
ATOM  32997  C   MET B  63     149.322 166.347  -7.089  1.00151.57       BS2
ATOM  32998  O   MET B  63     148.242 166.366  -6.497  1.00151.57       BS2
ATOM  32999  N   ARG B  64     150.351 165.600  -6.707  1.00 58.13       BS2
ATOM  33000  CA  ARG B  64     150.309 164.729  -5.541  1.00 58.13       BS2
ATOM  33001  CB  ARG B  64     149.758 163.349  -5.913  1.00165.34       BS2
ATOM  33002  CG  ARG B  64     149.590 162.409  -4.730  1.00165.34       BS2
ATOM  33003  CD  ARG B  64     149.014 161.054  -5.134  1.00165.34       BS2
ATOM  33004  NE  ARG B  64     147.660 161.153  -5.676  1.00165.34       BS2
ATOM  33005  CZ  ARG B  64     146.836 160.119  -5.829  1.00165.34       BS2
ATOM  33006  NH1 ARG B  64     147.222 158.899  -5.480  1.00165.34       BS2
ATOM  33007  NH2 ARG B  64     145.622 160.303  -6.331  1.00165.34       BS2
ATOM  33008  C   ARG B  64     151.750 164.616  -5.078  1.00 58.13       BS2
ATOM  33009  O   ARG B  64     152.065 163.872  -4.151  1.00 58.13       BS2
ATOM  33010  N   GLY B  65     152.619 165.379  -5.736  1.00 74.75       BS2
ATOM  33011  CA  GLY B  65     154.027 165.374  -5.396  1.00 74.75       BS2
ATOM  33012  C   GLY B  65     154.668 164.050  -5.739  1.00 74.75       BS2
ATOM  33013  O   GLY B  65     155.631 163.620  -5.088  1.00 74.75       BS2
ATOM  33014  N   GLY B  66     154.125 163.401  -6.767  1.00 93.78       BS2
ATOM  33015  CA  GLY B  66     154.643 162.120  -7.204  1.00 93.78       BS2
ATOM  33016  C   GLY B  66     156.011 162.254  -7.839  1.00 93.78       BS2
ATOM  33017  O   GLY B  66     156.291 163.227  -8.544  1.00 93.78       BS2
ATOM  33018  N   THR B  67     156.866 161.268  -7.586  1.00118.66       BS2
ATOM  33019  CA  THR B  67     158.217 161.260  -8.128  1.00118.66       BS2
ATOM  33020  CB  THR B  67     159.216 160.702  -7.109  1.00 97.48       BS2
ATOM  33021  OG1 THR B  67     158.852 161.142  -5.796  1.00 97.48       BS2
ATOM  33022  CG2 THR B  67     160.615 161.190  -7.428  1.00 97.48       BS2
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ATOM  33023  C   THR B  67     158.295 160.405  -9.391  1.00118.66      BS2
ATOM  33024  O   THR B  67     157.947 159.220  -9.384  1.00118.66      BS2
ATOM  33025  N   ILE B  68     158.751 161.021 -10.474  1.00 53.92      BS2
ATOM  33026  CA  ILE B  68     158.888 160.336 -11.747  1.00 53.92      BS2
ATOM  33027  CB  ILE B  68     158.064 161.033 -12.843  1.00 51.67      BS2
ATOM  33028  CG2 ILE B  68     158.381 160.447 -14.198  1.00 51.67      BS2
ATOM  33029  CG1 ILE B  68     156.573 160.884 -12.532  1.00 51.67      BS2
ATOM  33030  CD1 ILE B  68     155.634 161.468 -13.613  1.00 51.67      BS2
ATOM  33031  C   ILE B  68     160.359 160.359 -12.118  1.00 53.92      BS2
ATOM  33032  O   ILE B  68     161.022 161.383 -11.969  1.00 53.92      BS2
ATOM  33033  N   LEU B  69     160.876 159.223 -12.575  1.00 86.15      BS2
ATOM  33034  CA  LEU B  69     162.277 159.141 -12.961  1.00 86.15      BS2
ATOM  33035  CB  LEU B  69     162.955 157.965 -12.267  1.00 53.42      BS2
ATOM  33036  CG  LEU B  69     164.482 157.941 -12.342  1.00 53.42      BS2
ATOM  33037  CD1 LEU B  69     165.006 156.726 -11.585  1.00 53.42      BS2
ATOM  33038  CD2 LEU B  69     164.939 157.896 -13.789  1.00 53.42      BS2
ATOM  33039  C   LEU B  69     162.371 158.976 -14.468  1.00 86.15      BS2
ATOM  33040  O   LEU B  69     161.663 158.160 -15.060  1.00 86.15      BS2
ATOM  33041  N   PHE B  70     163.258 159.752 -15.082  1.00 61.19      BS2
ATOM  33042  CA  PHE B  70     163.433 159.703 -16.523  1.00 61.19      BS2
ATOM  33043  CB  PHE B  70     163.525 161.114 -17.093  1.00 70.01      BS2
ATOM  33044  CG  PHE B  70     162.252 161.900 -16.981  1.00 70.01      BS2
ATOM  33045  CD1 PHE B  70     161.795 162.334 -15.742  1.00 70.01      BS2
ATOM  33046  CD2 PHE B  70     161.519 162.220 -18.126  1.00 70.01      BS2
ATOM  33047  CE1 PHE B  70     160.629 163.079 -15.642  1.00 70.01      BS2
ATOM  33048  CE2 PHE B  70     160.350 162.965 -18.041  1.00 70.01      BS2
ATOM  33049  CZ  PHE B  70     159.901 163.398 -16.797  1.00 70.01      BS2
ATOM  33050  C   PHE B  70     164.656 158.917 -16.951  1.00 61.19      BS2
ATOM  33051  O   PHE B  70     165.726 159.024 -16.351  1.00 61.19      BS2
ATOM  33052  N   VAL B  71     164.487 158.135 -18.010  1.00 57.04      BS2
ATOM  33053  CA  VAL B  71     165.565 157.320 -18.549  1.00 57.04      BS2
ATOM  33054  CB  VAL B  71     165.388 155.855 -18.159  1.00 51.50      BS2
ATOM  33055  CG1 VAL B  71     165.842 155.627 -16.722  1.00 51.50      BS2
ATOM  33056  CG2 VAL B  71     163.938 155.483 -18.302  1.00 51.50      BS2
ATOM  33057  C   VAL B  71     165.592 157.417 -20.065  1.00 57.04      BS2
ATOM  33058  O   VAL B  71     164.593 157.145 -20.734  1.00 57.04      BS2
ATOM  33059  N   GLY B  72     166.744 157.818 -20.592  1.00 93.64      BS2
ATOM  33060  CA  GLY B  72     166.917 157.950 -22.025  1.00 93.64      BS2
ATOM  33061  C   GLY B  72     168.388 157.878 -22.387  1.00 93.64      BS2
ATOM  33062  O   GLY B  72     168.991 158.873 -22.781  1.00 93.64      BS2
ATOM  33063  N   THR B  73     168.971 156.695 -22.242  1.00 49.93      BS2
ATOM  33064  CA  THR B  73     170.373 156.486 -22.550  1.00 49.93      BS2
ATOM  33065  CB  THR B  73     170.817 155.116 -22.060  1.00 60.47      BS2
ATOM  33066  OG1 THR B  73     170.890 155.139 -20.631  1.00 60.47      BS2
ATOM  33067  CG2 THR B  73     172.175 154.745 -22.642  1.00 60.47      BS2
ATOM  33068  C   THR B  73     170.637 156.613 -24.047  1.00 49.93      BS2
ATOM  33069  O   THR B  73     171.729 157.002 -24.466  1.00 49.93      BS2
ATOM  33070  N   LYS B  74     169.633 156.283 -24.851  1.00 64.59      BS2
ATOM  33071  CA  LYS B  74     169.748 156.381 -26.300  1.00 64.59      BS2
ATOM  33072  CB  LYS B  74     168.360 156.229 -26.917  1.00110.58      BS2
ATOM  33073  CG  LYS B  74     168.307 156.321 -28.418  1.00110.58      BS2
ATOM  33074  CD  LYS B  74     166.864 156.261 -28.877  1.00110.58      BS2
ATOM  33075  CE  LYS B  74     166.761 156.379 -30.383  1.00110.58      BS2
ATOM  33076  NZ  LYS B  74     165.345 156.418 -30.835  1.00110.58      BS2
ATOM  33077  C   LYS B  74     170.336 157.751 -26.646  1.00 64.59      BS2
ATOM  33078  O   LYS B  74     169.654 158.766 -26.519  1.00 64.59      BS2
ATOM  33079  N   LYS B  75     171.597 157.784 -27.073  1.00 78.80      BS2
ATOM  33080  CA  LYS B  75     172.271 159.038 -27.425  1.00 78.80      BS2
ATOM  33081  CB  LYS B  75     173.626 158.745 -28.076  1.00188.69      BS2
ATOM  33082  CG  LYS B  75     174.804 158.741 -27.105  1.00188.69      BS2
ATOM  33083  CD  LYS B  75     175.059 160.136 -26.538  1.00188.69      BS2
ATOM  33084  CE  LYS B  75     176.266 160.163 -25.603  1.00188.69      BS2
ATOM  33085  NZ  LYS B  75     177.555 159.853 -26.282  1.00188.69      BS2
ATOM  33086  C   LYS B  75     171.465 159.972 -28.333  1.00 78.80      BS2
ATOM  33087  O   LYS B  75     171.774 161.155 -28.450  1.00 78.80      BS2
ATOM  33088  N   GLN B  76     170.433 159.443 -28.975  1.00 79.26      BS2
ATOM  33089  CA  GLN B  76     169.596 160.249 -29.852  1.00 79.26      BS2
ATOM  33090  CB  GLN B  76     168.693 159.330 -30.680  1.00177.93      BS2
ATOM  33091  CG  GLN B  76     168.452 159.781 -32.113  1.00177.93      BS2
ATOM  33092  CD  GLN B  76     167.622 161.043 -32.202  1.00177.93      BS2
ATOM  33093  OE1 GLN B  76     166.514 161.106 -31.672  1.00177.93      BS2
ATOM  33094  NE2 GLN B  76     168.152 162.057 -32.880  1.00177.93      BS2
ATOM  33095  C   GLN B  76     168.754 161.193 -28.987  1.00 79.26      BS2
ATOM  33096  O   GLN B  76     167.989 162.013 -29.494  1.00 79.26      BS2
ATOM  33097  N   ALA B  77     168.900 161.075 -27.673  1.00 66.92      BS2
ATOM  33098  CA  ALA B  77     168.149 161.917 -26.748  1.00 66.92      BS2
ATOM  33099  CB  ALA B  77     166.743 161.351 -26.558  1.00 13.14      BS2
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ATOM  33100  C   ALA B  77     168.855 162.043 -25.397  1.00 66.92      BS2
ATOM  33101  O   ALA B  77     168.255 162.463 -24.411  1.00 66.92      BS2
ATOM  33102  N   GLN B  78     170.135 161.691 -25.354  1.00142.62      BS2
ATOM  33103  CA  GLN B  78     170.888 161.769 -24.111  1.00142.62      BS2
ATOM  33104  CB  GLN B  78     172.216 161.019 -24.244  1.00118.35      BS2
ATOM  33105  CG  GLN B  78     172.786 160.562 -22.906  1.00118.35      BS2
ATOM  33106  CD  GLN B  78     174.226 160.078 -22.991  1.00118.35      BS2
ATOM  33107  OE1 GLN B  78     175.158 160.878 -23.092  1.00118.35      BS2
ATOM  33108  NE2 GLN B  78     174.413 158.763 -22.950  1.00118.35      BS2
ATOM  33109  C   GLN B  78     171.156 163.222 -23.713  1.00142.62      BS2
ATOM  33110  O   GLN B  78     172.269 163.570 -23.324  1.00142.62      BS2
ATOM  33111  N   ASP B  79     170.134 164.066 -23.822  1.00 78.93      BS2
ATOM  33112  CA  ASP B  79     170.241 165.484 -23.466  1.00 78.93      BS2
ATOM  33113  CB  ASP B  79     170.948 166.281 -24.565  1.00124.57      BS2
ATOM  33114  CG  ASP B  79     172.454 166.221 -24.451  1.00124.57      BS2
ATOM  33115  OD1 ASP B  79     172.969 166.496 -23.348  1.00124.57      BS2
ATOM  33116  OD2 ASP B  79     173.122 165.908 -25.462  1.00124.57      BS2
ATOM  33117  C   ASP B  79     168.843 166.030 -23.277  1.00 78.93      BS2
ATOM  33118  O   ASP B  79     168.515 166.577 -22.225  1.00 78.93      BS2
ATOM  33119  N   ILE B  80     168.025 165.879 -24.312  1.00 56.80      BS2
ATOM  33120  CA  ILE B  80     166.642 166.323 -24.267  1.00 56.80      BS2
ATOM  33121  CB  ILE B  80     165.834 165.750 -25.442  1.00 81.60      BS2
ATOM  33122  CG2 ILE B  80     164.454 166.364 -25.478  1.00 81.60      BS2
ATOM  33123  CG1 ILE B  80     166.565 166.024 -26.755  1.00 81.60      BS2
ATOM  33124  CD1 ILE B  80     167.774 165.118 -27.001  1.00 81.60      BS2
ATOM  33125  C   ILE B  80     166.060 165.787 -22.963  1.00 56.80      BS2
ATOM  33126  O   ILE B  80     165.140 166.359 -22.388  1.00 56.80      BS2
ATOM  33127  N   VAL B  81     166.610 164.676 -22.497  1.00 89.11      BS2
ATOM  33128  CA  VAL B  81     166.153 164.090 -21.256  1.00 89.11      BS2
ATOM  33129  CB  VAL B  81     166.513 162.601 -21.183  1.00108.37      BS2
ATOM  33130  CG1 VAL B  81     166.111 162.028 -19.836  1.00108.37      BS2
ATOM  33131  CG2 VAL B  81     165.811 161.859 -22.298  1.00108.37      BS2
ATOM  33132  C   VAL B  81     166.803 164.830 -20.097  1.00 89.11      BS2
ATOM  33133  O   VAL B  81     166.132 165.176 -19.130  1.00 89.11      BS2
ATOM  33134  N   ARG B  82     168.102 165.090 -20.197  1.00128.42      BS2
ATOM  33135  CA  ARG B  82     168.794 165.792 -19.126  1.00128.42      BS2
ATOM  33136  CB  ARG B  82     170.279 165.986 -19.455  1.00134.08      BS2
ATOM  33137  CG  ARG B  82     170.607 167.200 -20.309  1.00134.08      BS2
ATOM  33138  CD  ARG B  82     171.976 167.753 -19.932  1.00134.08      BS2
ATOM  33139  NE  ARG B  82     172.018 168.187 -18.534  1.00134.08      BS2
ATOM  33140  CZ  ARG B  82     173.122 168.570 -17.897  1.00134.08      BS2
ATOM  33141  NH1 ARG B  82     174.288 168.574 -18.525  1.00134.08      BS2
ATOM  33142  NH2 ARG B  82     173.060 168.951 -16.629  1.00134.08      BS2
ATOM  33143  C   ARG B  82     168.148 167.145 -18.857  1.00128.42      BS2
ATOM  33144  O   ARG B  82     168.150 167.631 -17.726  1.00128.42      BS2
ATOM  33145  N   MET B  83     167.597 167.753 -19.904  1.00 90.70      BS2
ATOM  33146  CA  MET B  83     166.939 169.045 -19.769  1.00 90.70      BS2
ATOM  33147  CB  MET B  83     166.616 169.622 -21.147  1.00156.92      BS2
ATOM  33148  CG  MET B  83     167.830 170.036 -21.939  1.00156.92      BS2
ATOM  33149  SD  MET B  83     168.697 171.383 -21.138  1.00156.92      BS2
ATOM  33150  CE  MET B  83     167.903 172.790 -21.901  1.00156.92      BS2
ATOM  33151  C   MET B  83     165.650 168.872 -18.985  1.00 90.70      BS2
ATOM  33152  O   MET B  83     165.631 168.967 -17.757  1.00 90.70      BS2
ATOM  33153  N   GLU B  84     164.577 168.607 -19.721  1.00 56.09      BS2
ATOM  33154  CA  GLU B  84     163.256 168.414 -19.152  1.00 56.09      BS2
ATOM  33155  CB  GLU B  84     162.417 167.553 -20.094  1.00 85.73      BS2
ATOM  33156  CG  GLU B  84     162.355 168.070 -21.523  1.00 85.73      BS2
ATOM  33157  CD  GLU B  84     161.768 169.455 -21.618  1.00 85.73      BS2
ATOM  33158  OE1 GLU B  84     160.592 169.621 -21.243  1.00 85.73      BS2
ATOM  33159  OE2 GLU B  84     162.483 170.375 -22.063  1.00 85.73      BS2
ATOM  33160  C   GLU B  84     163.316 167.766 -17.774  1.00 56.09      BS2
ATOM  33161  O   GLU B  84     162.570 168.138 -16.868  1.00 56.09      BS2
ATOM  33162  N   ALA B  85     164.194 166.787 -17.614  1.00 70.94      BS2
ATOM  33163  CA  ALA B  85     164.314 166.131 -16.324  1.00 70.94      BS2
ATOM  33164  CB  ALA B  85     165.464 165.140 -16.344  1.00101.74      BS2
ATOM  33165  C   ALA B  85     164.563 167.198 -15.264  1.00 70.94      BS2
ATOM  33166  O   ALA B  85     163.719 167.439 -14.396  1.00 70.94      BS2
ATOM  33167  N   GLU B  86     165.729 167.834 -15.356  1.00 97.04      BS2
ATOM  33168  CA  GLU B  86     166.140 168.882 -14.428  1.00 97.04      BS2
ATOM  33169  CB  GLU B  86     167.561 169.347 -14.761  1.00160.50      BS2
ATOM  33170  CG  GLU B  86     168.611 168.246 -14.708  1.00160.50      BS2
ATOM  33171  CD  GLU B  86     169.974 168.701 -15.208  1.00160.50      BS2
ATOM  33172  OE1 GLU B  86     170.560 169.622 -14.600  1.00160.50      BS2
ATOM  33173  OE2 GLU B  86     170.459 168.135 -16.212  1.00160.50      BS2
ATOM  33174  C   GLU B  86     165.184 170.064 -14.512  1.00 97.04      BS2
ATOM  33175  O   GLU B  86     164.896 170.716 -13.507  1.00 97.04      BS2
ATOM  33176  N   ARG B  87     164.706 170.337 -15.723  1.00 67.17      BS2
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ATOM  33177  CA  ARG B  87     163.772 171.431 -15.955  1.00 67.17      BS2
ATOM  33178  CB  ARG B  87     163.383 171.484 -17.439  1.00 88.79      BS2
ATOM  33179  CG  ARG B  87     162.507 172.662 -17.822  1.00 88.79      BS2
ATOM  33180  CD  ARG B  87     161.078 172.466 -17.370  1.00 88.79      BS2
ATOM  33181  NE  ARG B  87     160.201 172.150 -18.488  1.00 88.79      BS2
ATOM  33182  CZ  ARG B  87     160.051 172.940 -19.544  1.00 88.79      BS2
ATOM  33183  NH1 ARG B  87     160.729 174.080 -19.609  1.00 88.79      BS2
ATOM  33184  NH2 ARG B  87     159.222 172.603 -20.524  1.00 88.79      BS2
ATOM  33185  C   ARG B  87     162.544 171.192 -15.082  1.00 67.17      BS2
ATOM  33186  O   ARG B  87     161.799 172.112 -14.759  1.00 67.17      BS2
ATOM  33187  N   ALA B  88     162.333 169.939 -14.710  1.00 76.55      BS2
ATOM  33188  CA  ALA B  88     161.220 169.582 -13.849  1.00 76.55      BS2
ATOM  33189  CB  ALA B  88     160.536 168.333 -14.366  1.00110.27      BS2
ATOM  33190  C   ALA B  88     161.865 169.315 -12.502  1.00 76.55      BS2
ATOM  33191  O   ALA B  88     163.041 169.618 -12.310  1.00 76.55      BS2
ATOM  33192  N   GLY B  89     161.113 168.760 -11.565  1.00 73.29      BS2
ATOM  33193  CA  GLY B  89     161.709 168.476 -10.278  1.00 73.29      BS2
ATOM  33194  C   GLY B  89     162.389 167.122 -10.351  1.00 73.29      BS2
ATOM  33195  O   GLY B  89     163.440 166.884  -9.739  1.00 73.29      BS2
ATOM  33196  N   MET B  90     161.775 166.248 -11.143  1.00 87.41      BS2
ATOM  33197  CA  MET B  90     162.210 164.872 -11.351  1.00 87.41      BS2
ATOM  33198  CB  MET B  90     161.395 164.266 -12.494  1.00111.79      BS2
ATOM  33199  CG  MET B  90     159.950 164.731 -12.504  1.00111.79      BS2
ATOM  33200  SD  MET B  90     159.216 164.630 -10.866  1.00111.79      BS2
ATOM  33201  CE  MET B  90     157.662 163.848 -11.224  1.00111.79      BS2
ATOM  33202  C   MET B  90     163.695 164.637 -11.619  1.00 87.41      BS2
ATOM  33203  O   MET B  90     164.408 165.525 -12.095  1.00 87.41      BS2
ATOM  33204  N   PRO B  91     164.178 163.423 -11.291  1.00101.46      BS2
ATOM  33205  CD  PRO B  91     163.447 162.496 -10.406  1.00 93.59      BS2
ATOM  33206  CA  PRO B  91     165.561 162.968 -11.466  1.00101.46      BS2
ATOM  33207  CB  PRO B  91     165.757 162.039 -10.281  1.00 93.59      BS2
ATOM  33208  CG  PRO B  91     164.438 161.353 -10.223  1.00 93.59      BS2
ATOM  33209  C   PRO B  91     165.670 162.227 -12.802  1.00101.46      BS2
ATOM  33210  O   PRO B  91     164.656 161.828 -13.380  1.00101.46      BS2
ATOM  33211  N   TYR B  92     166.890 162.025 -13.286  1.00118.79      BS2
ATOM  33212  CA  TYR B  92     167.065 161.348 -14.565  1.00118.79      BS2
ATOM  33213  CB  TYR B  92     167.126 162.380 -15.689  1.00 99.93      BS2
ATOM  33214  CG  TYR B  92     168.369 163.237 -15.631  1.00 99.93      BS2
ATOM  33215  CD1 TYR B  92     169.038 163.605 -16.792  1.00 99.93      BS2
ATOM  33216  CE1 TYR B  92     170.213 164.359 -16.738  1.00 99.93      BS2
ATOM  33217  CD2 TYR B  92     168.899 163.652 -14.412  1.00 99.93      BS2
ATOM  33218  CE2 TYR B  92     170.068 164.407 -14.350  1.00 99.93      BS2
ATOM  33219  CZ  TYR B  92     170.721 164.754 -15.514  1.00 99.93      BS2
ATOM  33220  OH  TYR B  92     171.886 165.485 -15.454  1.00 99.93      BS2
ATOM  33221  C   TYR B  92     168.308 160.466 -14.663  1.00118.79      BS2
ATOM  33222  O   TYR B  92     169.186 160.483 -13.795  1.00118.79      BS2
ATOM  33223  N   VAL B  93     168.355 159.691 -15.743  1.00 91.86      BS2
ATOM  33224  CA  VAL B  93     169.474 158.808 -16.041  1.00 91.86      BS2
ATOM  33225  CB  VAL B  93     169.150 157.344 -15.710  1.00 49.06      BS2
ATOM  33226  CG1 VAL B  93     170.234 156.436 -16.260  1.00 49.06      BS2
ATOM  33227  CG2 VAL B  93     169.087 157.169 -14.195  1.00 49.06      BS2
ATOM  33228  C   VAL B  93     169.752 158.978 -17.532  1.00 91.86      BS2
ATOM  33229  O   VAL B  93     169.077 158.395 -18.386  1.00 91.86      BS2
ATOM  33230  N   ASN B  94     170.758 159.803 -17.817  1.00 76.45      BS2
ATOM  33231  CA  ASN B  94     171.148 160.151 -19.174  1.00 76.45      BS2
ATOM  33232  CB  ASN B  94     171.606 161.611 -19.188  1.00103.50      BS2
ATOM  33233  CG  ASN B  94     171.371 162.287 -20.520  1.00103.50      BS2
ATOM  33234  OD1 ASN B  94     170.298 162.165 -21.115  1.00103.50      BS2
ATOM  33235  ND2 ASN B  94     172.369 163.025 -20.990  1.00103.50      BS2
ATOM  33236  C   ASN B  94     172.236 159.254 -19.733  1.00 76.45      BS2
ATOM  33237  O   ASN B  94     172.075 158.687 -20.807  1.00 76.45      BS2
ATOM  33238  N   GLN B  95     173.338 159.125 -19.002  1.00 65.87      BS2
ATOM  33239  CA  GLN B  95     174.456 158.293 -19.439  1.00 65.87      BS2
ATOM  33240  CB  GLN B  95     175.623 158.419 -18.457  1.00161.14      BS2
ATOM  33241  CG  GLN B  95     176.679 159.428 -18.876  1.00161.14      BS2
ATOM  33242  CD  GLN B  95     177.350 159.058 -20.187  1.00161.14      BS2
ATOM  33243  OE1 GLN B  95     176.712 159.027 -21.241  1.00161.14      BS2
ATOM  33244  NE2 GLN B  95     178.647 158.772 -20.127  1.00161.14      BS2
ATOM  33245  C   GLN B  95     174.126 156.808 -19.644  1.00 65.87      BS2
ATOM  33246  O   GLN B  95     173.655 156.410 -20.713  1.00 65.87      BS2
ATOM  33247  N   ARG B  96     174.400 155.990 -18.630  1.00 76.76      BS2
ATOM  33248  CA  ARG B  96     174.135 154.559 -18.709  1.00 76.76      BS2
ATOM  33249  CB  ARG B  96     175.438 153.783 -18.922  1.00200.96      BS2
ATOM  33250  CG  ARG B  96     175.671 153.371 -20.371  1.00200.96      BS2
ATOM  33251  CD  ARG B  96     175.739 154.575 -21.301  1.00200.96      BS2
ATOM  33252  NE  ARG B  96     175.343 154.234 -22.665  1.00200.96      BS2
ATOM  33253  CZ  ARG B  96     175.248 155.111 -23.660  1.00200.96      BS2
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ATOM  33254  NH1 ARG B  96     175.524 156.391 -23.448  1.00200.96      BS2
ATOM  33255  NH2 ARG B  96     174.865 154.710 -24.866  1.00200.96      BS2
ATOM  33256  C   ARG B  96     173.431 154.051 -17.467  1.00 76.76      BS2
ATOM  33257  O   ARG B  96     173.852 154.327 -16.349  1.00 76.76      BS2
ATOM  33258  N   TRP B  97     172.358 153.295 -17.680  1.00 52.16      BS2
ATOM  33259  CA  TRP B  97     171.558 152.744 -16.590  1.00 52.16      BS2
ATOM  33260  CB  TRP B  97     170.223 152.242 -17.148  1.00101.13      BS2
ATOM  33261  CG  TRP B  97     169.110 152.252 -16.151  1.00101.13      BS2
ATOM  33262  CD2 TRP B  97     168.758 151.197 -15.267  1.00101.13      BS2
ATOM  33263  CE2 TRP B  97     167.689 151.659 -14.468  1.00101.13      BS2
ATOM  33264  CE3 TRP B  97     169.242 149.902 -15.069  1.00101.13      BS2
ATOM  33265  CD1 TRP B  97     168.261 153.289 -15.867  1.00101.13      BS2
ATOM  33266  NE1 TRP B  97     167.405 152.939 -14.856  1.00101.13      BS2
ATOM  33267  CZ2 TRP B  97     167.101 150.873 -13.490  1.00101.13      BS2
ATOM  33268  CZ3 TRP B  97     168.658 149.120 -14.097  1.00101.13      BS2
ATOM  33269  CH2 TRP B  97     167.596 149.609 -13.317  1.00101.13      BS2
ATOM  33270  C   TRP B  97     172.264 151.601 -15.859  1.00 52.16      BS2
ATOM  33271  O   TRP B  97     172.393 150.509 -16.387  1.00 52.16      BS2
ATOM  33272  N   LEU B  98     172.718 151.843 -14.639  1.00 53.76      BS2
ATOM  33273  CA  LEU B  98     173.393 150.790 -13.900  1.00 53.76      BS2
ATOM  33274  CB  LEU B  98     174.061 151.359 -12.652  1.00 59.06      BS2
ATOM  33275  CG  LEU B  98     174.846 152.652 -12.899  1.00 59.06      BS2
ATOM  33276  CD1 LEU B  98     175.647 153.008 -11.664  1.00 59.06      BS2
ATOM  33277  CD2 LEU B  98     175.768 152.484 -14.077  1.00 59.06      BS2
ATOM  33278  C   LEU B  98     172.389 149.709 -13.524  1.00 53.76      BS2
ATOM  33279  O   LEU B  98     171.266 150.003 -13.110  1.00 53.76      BS2
ATOM  33280  N   GLY B  99     172.803 148.454 -13.676  1.00 55.96      BS2
ATOM  33281  CA  GLY B  99     171.922 147.336 -13.378  1.00 55.96      BS2
ATOM  33282  C   GLY B  99     171.576 147.150 -11.920  1.00 55.96      BS2
ATOM  33283  O   GLY B  99     172.387 146.674 -11.132  1.00 55.96      BS2
ATOM  33284  N   GLY B 100     170.360 147.525 -11.553  1.00 54.34      BS2
ATOM  33285  CA  GLY B 100     169.955 147.362 -10.171  1.00 54.34      BS2
ATOM  33286  C   GLY B 100     169.750 148.661  -9.420  1.00 54.34      BS2
ATOM  33287  O   GLY B 100     169.749 148.680  -8.184  1.00 54.34      BS2
ATOM  33288  N   MET B 101     169.583 149.754 -10.153  1.00 71.38      BS2
ATOM  33289  CA  MET B 101     169.355 151.023  -9.498  1.00 71.38      BS2
ATOM  33290  CB  MET B 101     169.239 152.140 -10.539  1.00 66.12      BS2
ATOM  33291  CG  MET B 101     170.529 152.287 -11.358  1.00 66.12      BS2
ATOM  33292  SD  MET B 101     170.782 153.828 -12.303  1.00 66.12      BS2
ATOM  33293  CE  MET B 101     172.248 154.434 -11.527  1.00 66.12      BS2
ATOM  33294  C   MET B 101     168.088 150.882  -8.651  1.00 71.38      BS2
ATOM  33295  O   MET B 101     168.124 151.061  -7.439  1.00 71.38      BS2
ATOM  33296  N   LEU B 102     166.980 150.509  -9.273  1.00 49.86      BS2
ATOM  33297  CA  LEU B 102     165.736 150.346  -8.540  1.00 49.86      BS2
ATOM  33298  CB  LEU B 102     164.565 150.309  -9.513  1.00 41.73      BS2
ATOM  33299  CG  LEU B 102     164.305 151.556 -10.353  1.00 41.73      BS2
ATOM  33300  CD1 LEU B 102     165.608 152.100 -10.894  1.00 41.73      BS2
ATOM  33301  CD2 LEU B 102     163.363 151.207 -11.494  1.00 41.73      BS2
ATOM  33302  C   LEU B 102     165.730 149.064  -7.715  1.00 49.86      BS2
ATOM  33303  O   LEU B 102     165.333 149.046  -6.551  1.00 49.86      BS2
ATOM  33304  N   THR B 103     166.181 147.985  -8.327  1.00 53.51      BS2
ATOM  33305  CA  THR B 103     166.186 146.684  -7.687  1.00 53.51      BS2
ATOM  33306  CB  THR B 103     166.236 145.594  -8.765  1.00 41.96      BS2
ATOM  33307  OG1 THR B 103     165.058 145.688  -9.571  1.00 41.96      BS2
ATOM  33308  CG2 THR B 103     166.305 144.224  -8.154  1.00 41.96      BS2
ATOM  33309  C   THR B 103     167.287 146.463  -6.656  1.00 53.51      BS2
ATOM  33310  O   THR B 103     167.157 145.610  -5.779  1.00 53.51      BS2
ATOM  33311  N   ASN B 104     168.376 147.210  -6.755  1.00 67.47      BS2
ATOM  33312  CA  ASN B 104     169.441 147.057  -5.783  1.00 67.47      BS2
ATOM  33313  CB  ASN B 104     170.699 146.485  -6.434  1.00 57.92      BS2
ATOM  33314  CG  ASN B 104     171.678 145.908  -5.409  1.00 57.92      BS2
ATOM  33315  OD1 ASN B 104     171.478 146.030  -4.197  1.00 57.92      BS2
ATOM  33316  ND2 ASN B 104     172.746 145.277  -5.899  1.00 57.92      BS2
ATOM  33317  C   ASN B 104     169.709 148.441  -5.212  1.00 67.47      BS2
ATOM  33318  O   ASN B 104     170.808 148.742  -4.737  1.00 67.47      BS2
ATOM  33319  N   PHE B 105     168.673 149.273  -5.266  1.00 49.94      BS2
ATOM  33320  CA  PHE B 105     168.715 150.647  -4.772  1.00 49.94      BS2
ATOM  33321  CB  PHE B 105     167.295 151.147  -4.533  1.00 64.18      BS2
ATOM  33322  CG  PHE B 105     167.198 152.631  -4.412  1.00 64.18      BS2
ATOM  33323  CD1 PHE B 105     167.307 153.438  -5.540  1.00 64.18      BS2
ATOM  33324  CD2 PHE B 105     167.008 153.227  -3.176  1.00 64.18      BS2
ATOM  33325  CE1 PHE B 105     167.227 154.823  -5.443  1.00 64.18      BS2
ATOM  33326  CE2 PHE B 105     166.927 154.608  -3.065  1.00 64.18      BS2
ATOM  33327  CZ  PHE B 105     167.036 155.409  -4.204  1.00 64.18      BS2
ATOM  33328  C   PHE B 105     169.526 150.854  -3.494  1.00 49.94      BS2
ATOM  33329  O   PHE B 105     170.485 151.626  -3.480  1.00 49.94      BS2
ATOM  33330  N   LYS B 106     169.139 150.172  -2.421  1.00 68.31      BS2
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ATOM  33331  CA  LYS B 106     169.848 150.324  -1.161  1.00 68.31      BS2
ATOM  33332  CB  LYS B 106     169.421 149.255  -0.151  1.00172.38      BS2
ATOM  33333  CG  LYS B 106     170.061 149.450   1.227  1.00172.38      BS2
ATOM  33334  CD  LYS B 106     169.727 148.324   2.198  1.00172.38      BS2
ATOM  33335  CE  LYS B 106     170.440 148.522   3.532  1.00172.38      BS2
ATOM  33336  NZ  LYS B 106     170.194 147.401   4.484  1.00172.38      BS2
ATOM  33337  C   LYS B 106     171.357 150.249  -1.365  1.00 68.31      BS2
ATOM  33338  O   LYS B 106     172.117 150.753  -0.544  1.00 68.31      BS2
ATOM  33339  N   THR B 107     171.795 149.621  -2.454  1.00 51.42      BS2
ATOM  33340  CA  THR B 107     173.226 149.510  -2.725  1.00 51.42      BS2
ATOM  33341  CB  THR B 107     173.592 148.155  -3.388  1.00 61.50      BS2
ATOM  33342  OG1 THR B 107     173.675 147.130  -2.387  1.00 61.50      BS2
ATOM  33343  CG2 THR B 107     174.931 148.259  -4.102  1.00 61.50      BS2
ATOM  33344  C   THR B 107     173.710 150.635  -3.619  1.00 51.42      BS2
ATOM  33345  O   THR B 107     174.551 151.433  -3.221  1.00 51.42      BS2
ATOM  33346  N   ILE B 108     173.192 150.696  -4.836  1.00 46.54      BS2
ATOM  33347  CA  ILE B 108     173.609 151.747  -5.742  1.00 46.54      BS2
ATOM  33348  CB  ILE B 108     172.768 151.712  -7.044  1.00 80.39      BS2
ATOM  33349  CG2 ILE B 108     172.869 153.029  -7.801  1.00 80.39      BS2
ATOM  33350  CG1 ILE B 108     173.255 150.556  -7.915  1.00 80.39      BS2
ATOM  33351  CD1 ILE B 108     172.544 150.447  -9.243  1.00 80.39      BS2
ATOM  33352  C   ILE B 108     173.481 153.090  -5.026  1.00 46.54      BS2
ATOM  33353  O   ILE B 108     174.115 154.077  -5.409  1.00 46.54      BS2
ATOM  33354  N   SER B 109     172.674 153.123  -3.970  1.00 67.11      BS2
ATOM  33355  CA  SER B 109     172.500 154.348  -3.200  1.00 67.11      BS2
ATOM  33356  CB  SER B 109     171.334 154.195  -2.227  1.00143.22      BS2
ATOM  33357  OG  SER B 109     171.540 153.081  -1.380  1.00143.22      BS2
ATOM  33358  C   SER B 109     173.794 154.645  -2.431  1.00 67.11      BS2
ATOM  33359  O   SER B 109     174.183 155.802  -2.267  1.00 67.11      BS2
ATOM  33360  N   GLN B 110     174.455 153.589  -1.970  1.00 55.32      BS2
ATOM  33361  CA  GLN B 110     175.700 153.722  -1.240  1.00 55.32      BS2
ATOM  33362  CB  GLN B 110     176.265 152.341  -0.919  1.00150.91      BS2
ATOM  33363  CG  GLN B 110     175.333 151.492  -0.079  1.00150.91      BS2
ATOM  33364  CD  GLN B 110     175.804 150.057   0.049  1.00150.91      BS2
ATOM  33365  OE1 GLN B 110     175.916 149.337  -0.945  1.00150.91      BS2
ATOM  33366  NE2 GLN B 110     176.084 149.633   1.276  1.00150.91      BS2
ATOM  33367  C   GLN B 110     176.687 154.509  -2.091  1.00 55.32      BS2
ATOM  33368  O   GLN B 110     177.606 155.146  -1.572  1.00 55.32      BS2
ATOM  33369  N   ARG B 111     176.500 154.464  -3.405  1.00 60.60      BS2
ATOM  33370  CA  ARG B 111     177.376 155.201  -4.304  1.00 60.60      BS2
ATOM  33371  CB  ARG B 111     177.084 154.845  -5.763  1.00 82.83      BS2
ATOM  33372  CG  ARG B 111     177.755 153.573  -6.254  1.00 82.83      BS2
ATOM  33373  CD  ARG B 111     179.264 153.684  -6.179  1.00 82.83      BS2
ATOM  33374  NE  ARG B 111     179.791 153.325  -4.865  1.00 82.83      BS2
ATOM  33375  CZ  ARG B 111     181.054 153.516  -4.495  1.00 82.83      BS2
ATOM  33376  NH1 ARG B 111     181.915 154.072  -5.341  1.00 82.83      BS2
ATOM  33377  NH2 ARG B 111     181.464 153.140  -3.286  1.00 82.83      BS2
ATOM  33378  C   ARG B 111     177.156 156.687  -4.096  1.00 60.60      BS2
ATOM  33379  O   ARG B 111     178.109 157.440  -3.907  1.00 60.60      BS2
ATOM  33380  N   VAL B 112     175.893 157.106  -4.127  1.00 68.71      BS2
ATOM  33381  CA  VAL B 112     175.548 158.513  -3.934  1.00 68.71      BS2
ATOM  33382  CB  VAL B 112     174.010 158.727  -4.024  1.00 66.82      BS2
ATOM  33383  CG1 VAL B 112     173.694 160.176  -4.376  1.00 66.82      BS2
ATOM  33384  CG2 VAL B 112     173.420 157.801  -5.073  1.00 66.82      BS2
ATOM  33385  C   VAL B 112     176.071 158.969  -2.565  1.00 68.71      BS2
ATOM  33386  O   VAL B 112     176.624 160.055  -2.435  1.00 68.71      BS2
ATOM  33387  N   HIS B 113     175.914 158.124  -1.551  1.00103.42      BS2
ATOM  33388  CA  HIS B 113     176.397 158.447  -0.211  1.00103.42      BS2
ATOM  33389  CB  HIS B 113     176.051 157.327   0.774  1.00193.33      BS2
ATOM  33390  CG  HIS B 113     174.686 157.445   1.377  1.00193.33      BS2
ATOM  33391  CD2 HIS B 113     173.607 156.630   1.309  1.00193.33      BS2
ATOM  33392  ND1 HIS B 113     174.318 158.501   2.182  1.00193.33      BS2
ATOM  33393  CE1 HIS B 113     173.071 158.332   2.585  1.00193.33      BS2
ATOM  33394  NE2 HIS B 113     172.617 157.204   2.069  1.00193.33      BS2
ATOM  33395  C   HIS B 113     177.907 158.633  -0.232  1.00103.42      BS2
ATOM  33396  O   HIS B 113     178.540 158.749   0.820  1.00103.42      BS2
ATOM  33397  N   ARG B 114     178.480 158.653  -1.433  1.00 62.76      BS2
ATOM  33398  CA  ARG B 114     179.924 158.811  -1.608  1.00 62.76      BS2
ATOM  33399  CB  ARG B 114     180.490 157.636  -2.403  1.00107.24      BS2
ATOM  33400  CG  ARG B 114     181.791 157.063  -1.873  1.00107.24      BS2
ATOM  33401  CD  ARG B 114     182.958 158.029  -1.957  1.00107.24      BS2
ATOM  33402  NE  ARG B 114     184.202 157.349  -1.602  1.00107.24      BS2
ATOM  33403  CZ  ARG B 114     185.383 157.944  -1.482  1.00107.24      BS2
ATOM  33404  NH1 ARG B 114     185.499 159.249  -1.684  1.00107.24      BS2
ATOM  33405  NH2 ARG B 114     186.451 157.228  -1.163  1.00107.24      BS2
ATOM  33406  C   ARG B 114     180.167 160.083  -2.379  1.00 62.76      BS2
ATOM  33407  O   ARG B 114     180.985 160.910  -1.997  1.00 62.76      BS2
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ATOM  33408  N   LEU B 115     179.445 160.219  -3.481  1.00 73.55      BS2
ATOM  33409  CA  LEU B 115     179.552 161.389  -4.329  1.00 73.55      BS2
ATOM  33410  CB  LEU B 115     178.412 161.387  -5.338  1.00 50.02      BS2
ATOM  33411  CG  LEU B 115     178.251 162.665  -6.152  1.00 50.02      BS2
ATOM  33412  CD1 LEU B 115     179.599 163.085  -6.716  1.00 50.02      BS2
ATOM  33413  CD2 LEU B 115     177.235 162.425  -7.263  1.00 50.02      BS2
ATOM  33414  C   LEU B 115     179.507 162.673  -3.506  1.00 73.55      BS2
ATOM  33415  O   LEU B 115     180.312 163.584  -3.702  1.00 73.55      BS2
ATOM  33416  N   GLU B 116     178.562 162.736  -2.580  1.00109.35      BS2
ATOM  33417  CA  GLU B 116     178.410 163.908  -1.738  1.00109.35      BS2
ATOM  33418  CB  GLU B 116     177.054 163.854  -1.042  1.00125.25      BS2
ATOM  33419  CG  GLU B 116     175.935 163.517  -2.012  1.00125.25      BS2
ATOM  33420  CD  GLU B 116     174.567 163.519  -1.373  1.00125.25      BS2
ATOM  33421  OE1 GLU B 116     174.404 162.884  -0.309  1.00125.25      BS2
ATOM  33422  OE2 GLU B 116     173.651 164.148  -1.944  1.00125.25      BS2
ATOM  33423  C   GLU B 116     179.548 163.949  -0.729  1.00109.35      BS2
ATOM  33424  O   GLU B 116     179.996 165.019  -0.322  1.00109.35      BS2
ATOM  33425  N   GLU B 117     180.019 162.772  -0.337  1.00105.42      BS2
ATOM  33426  CA  GLU B 117     181.124 162.675   0.604  1.00105.42      BS2
ATOM  33427  CB  GLU B 117     181.354 161.214   0.982  1.00140.05      BS2
ATOM  33428  CG  GLU B 117     182.639 160.954   1.731  1.00140.05      BS2
ATOM  33429  CD  GLU B 117     182.748 159.518   2.195  1.00140.05      BS2
ATOM  33430  OE1 GLU B 117     182.431 158.610   1.397  1.00140.05      BS2
ATOM  33431  OE2 GLU B 117     183.156 159.294   3.355  1.00140.05      BS2
ATOM  33432  C   GLU B 117     182.377 163.260  -0.046  1.00105.42      BS2
ATOM  33433  O   GLU B 117     183.207 163.877   0.621  1.00105.42      BS2
ATOM  33434  N   LEU B 118     182.504 163.069  -1.354  1.00 86.32      BS2
ATOM  33435  CA  LEU B 118     183.645 163.595  -2.088  1.00 86.32      BS2
ATOM  33436  CB  LEU B 118     183.846 162.839  -3.400  1.00128.84      BS2
ATOM  33437  CG  LEU B 118     184.704 161.581  -3.328  1.00128.84      BS2
ATOM  33438  CD1 LEU B 118     184.865 160.998  -4.720  1.00128.84      BS2
ATOM  33439  CD2 LEU B 118     186.060 161.930  -2.740  1.00128.84      BS2
ATOM  33440  C   LEU B 118     183.456 165.068  -2.396  1.00 86.32      BS2
ATOM  33441  O   LEU B 118     184.260 165.900  -1.975  1.00 86.32      BS2
ATOM  33442  N   GLU B 119     182.399 165.386  -3.137  1.00104.07      BS2
ATOM  33443  CA  GLU B 119     182.116 166.770  -3.497  1.00104.07      BS2
ATOM  33444  CB  GLU B 119     180.663 166.916  -3.951  1.00141.34      BS2
ATOM  33445  CG  GLU B 119     180.359 166.189  -5.251  1.00141.34      BS2
ATOM  33446  CD  GLU B 119     178.918 166.352  -5.694  1.00141.34      BS2
ATOM  33447  OE1 GLU B 119     178.015 166.004  -4.905  1.00141.34      BS2
ATOM  33448  OE2 GLU B 119     178.688 166.821  -6.831  1.00141.34      BS2
ATOM  33449  C   GLU B 119     182.384 167.661  -2.295  1.00104.07      BS2
ATOM  33450  O   GLU B 119     182.839 168.798  -2.431  1.00104.07      BS2
ATOM  33451  N   ALA B 120     182.112 167.122  -1.113  1.00128.76      BS2
ATOM  33452  CA  ALA B 120     182.331 167.844   0.127  1.00128.76      BS2
ATOM  33453  CB  ALA B 120     181.721 167.073   1.293  1.00130.33      BS2
ATOM  33454  C   ALA B 120     183.825 168.038   0.350  1.00128.76      BS2
ATOM  33455  O   ALA B 120     184.342 169.143   0.197  1.00128.76      BS2
ATOM  33456  N   LEU B 121     184.514 166.955   0.698  1.00 88.50      BS2
ATOM  33457  CA  LEU B 121     185.952 167.001   0.957  1.00 88.50      BS2
ATOM  33458  CB  LEU B 121     186.553 165.598   0.870  1.00117.84      BS2
ATOM  33459  CG  LEU B 121     188.058 165.492   1.132  1.00117.84      BS2
ATOM  33460  CD1 LEU B 121     188.397 164.072   1.550  1.00117.84      BS2
ATOM  33461  CD2 LEU B 121     188.839 165.895  -0.109  1.00117.84      BS2
ATOM  33462  C   LEU B 121     186.707 167.938   0.026  1.00 88.50      BS2
ATOM  33463  O   LEU B 121     187.637 168.619   0.451  1.00 88.50      BS2
ATOM  33464  N   PHE B 122     186.322 167.963  -1.245  1.00109.88      BS2
ATOM  33465  CA  PHE B 122     186.973 168.844  -2.205  1.00109.88      BS2
ATOM  33466  CB  PHE B 122     186.645 168.407  -3.633  1.00160.28      BS2
ATOM  33467  CG  PHE B 122     187.614 167.404  -4.187  1.00160.28      BS2
ATOM  33468  CD1 PHE B 122     188.014 166.311  -3.423  1.00160.28      BS2
ATOM  33469  CD2 PHE B 122     188.144 167.561  -5.464  1.00160.28      BS2
ATOM  33470  CE1 PHE B 122     188.931 165.389  -3.920  1.00160.28      BS2
ATOM  33471  CE2 PHE B 122     189.062 166.643  -5.972  1.00160.28      BS2
ATOM  33472  CZ  PHE B 122     189.456 165.555  -5.197  1.00160.28      BS2
ATOM  33473  C   PHE B 122     186.553 170.288  -1.965  1.00109.88      BS2
ATOM  33474  O   PHE B 122     185.964 170.944  -2.827  1.00109.88      BS2
ATOM  33475  N   ALA B 123     186.869 170.762  -0.766  1.00175.88      BS2
ATOM  33476  CA  ALA B 123     186.563 172.115  -0.330  1.00175.88      BS2
ATOM  33477  CB  ALA B 123     185.057 172.332  -0.320  1.00109.30      BS2
ATOM  33478  C   ALA B 123     187.132 172.279   1.078  1.00175.88      BS2
ATOM  33479  O   ALA B 123     187.361 173.396   1.547  1.00175.88      BS2
ATOM  33480  N   SER B 124     187.370 171.146   1.736  1.00145.55      BS2
ATOM  33481  CA  SER B 124     187.902 171.125   3.096  1.00145.55      BS2
ATOM  33482  CB  SER B 124     187.491 169.822   3.799  1.00152.57      BS2
ATOM  33483  OG  SER B 124     188.213 168.710   3.296  1.00152.57      BS2
ATOM  33484  C   SER B 124     189.424 171.258   3.123  1.00145.55      BS2
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ATOM  24016  C2* G  A1139     246.079 163.799  13.117  1.00127.22      A16S
ATOM  24017  O2* G  A1139     245.056 164.157  14.024  1.00127.22      A16S
ATOM  24018  C3* G  A1139     246.924 162.622  13.595  1.00127.22      A16S
ATOM  24019  O3* G  A1139     247.054 162.684  15.011  1.00127.22      A16S
ATOM  24020  P    C  A1140     247.331 161.341  15.848  1.00179.53      A16S
ATOM  24021  O1P C  A1140     247.691 160.265  14.885  1.00100.31      A16S
ATOM  24022  O2P C  A1140     246.208 161.133  16.805  1.00100.31      A16S
ATOM  24023  O5* C  A1140     248.649 161.690  16.670  1.00179.53      A16S
ATOM  24024  C5* C  A1140     249.829 162.153  15.986  1.00179.53      A16S
ATOM  24025  C4* C  A1140     250.682 163.002  16.902  1.00179.53      A16S
ATOM  24026  O4* C  A1140     251.797 163.512  16.126  1.00179.53      A16S
ATOM  24027  C1* C  A1140     252.064 164.855  16.486  1.00179.53      A16S
ATOM  24028  N1   C  A1140     251.842 165.706  15.297  1.00100.31      A16S
ATOM  24029  C6   C  A1140     251.216 165.211  14.185  1.00100.31      A16S
ATOM  24030  C2   C  A1140     252.287 167.035  15.321  1.00100.31      A16S
ATOM  24031  O2   C  A1140     252.832 167.471  16.349  1.00100.31      A16S
ATOM  24032  N3   C  A1140     252.106 167.811  14.226  1.00100.31      A16S
ATOM  24033  C4   C  A1140     251.498 167.313  13.148  1.00100.31      A16S
ATOM  24034  N4   C  A1140     251.342 168.114  12.093  1.00100.31      A16S
ATOM  24035  C5   C  A1140     251.024 165.972  13.102  1.00100.31      A16S
ATOM  24036  C2* C  A1140     251.158 165.211  17.664  1.00179.53      A16S
ATOM  24037  O2* C  A1140     251.850 165.000  18.880  1.00179.53      A16S
ATOM  24038  C3* C  A1140     250.000 164.242  17.464  1.00179.53      A16S
ATOM  24039  O3* C  A1140     249.331 163.963  18.688  1.00179.53      A16S
ATOM  24040  P    C  A1141     248.193 164.966  19.217  1.00156.98      A16S
ATOM  24041  O1P C  A1141     247.780 164.475  20.560  1.00171.93      A16S
ATOM  24042  O2P C  A1141     247.171 165.133  18.147  1.00171.93      A16S
ATOM  24043  O5* C  A1141     248.954 166.357  19.389  1.00156.98      A16S
ATOM  24044  C5* C  A1141     249.794 166.606  20.533  1.00156.98      A16S
ATOM  24045  C4* C  A1141     250.155 168.073  20.620  1.00156.98      A16S
ATOM  24046  O4* C  A1141     251.081 168.428  19.559  1.00156.98      A16S
ATOM  24047  C1* C  A1141     250.890 169.787  19.201  1.00156.98      A16S
ATOM  24048  N1   C  A1141     250.614 169.888  17.757  1.00171.93      A16S
ATOM  24049  C6   C  A1141     249.904 168.922  17.099  1.00171.93      A16S
ATOM  24050  C2   C  A1141     251.081 171.015  17.066  1.00171.93      A16S
ATOM  24051  O2   C  A1141     251.743 171.868  17.677  1.00171.93      A16S
ATOM  24052  N3   C  A1141     250.802 171.144  15.750  1.00171.93      A16S
ATOM  24053  C4   C  A1141     250.098 170.202  15.121  1.00171.93      A16S
ATOM  24054  N4   C  A1141     249.842 170.377  13.824  1.00171.93      A16S
ATOM  24055  C5   C  A1141     249.624 169.038  15.795  1.00171.93      A16S
ATOM  24056  C2* C  A1141     249.742 170.344  20.041  1.00156.98      A16S
ATOM  24057  O2* C  A1141     250.283 171.076  21.118  1.00156.98      A16S
ATOM  24058  C3* C  A1141     249.017 169.071  20.472  1.00156.98      A16S
ATOM  24059  O3* C  A1141     248.283 169.252  21.678  1.00156.98      A16S
ATOM  24060  P    G  A1142     246.798 169.874  21.617  1.00141.90      A16S
ATOM  24061  O1P G  A1142     246.286 169.945  23.012  1.00160.53      A16S
ATOM  24062  O2P G  A1142     246.012 169.147  20.585  1.00160.53      A16S
ATOM  24063  O5* G  A1142     247.036 171.358  21.091  1.00141.90      A16S
ATOM  24064  C5* G  A1142     247.848 172.271  21.842  1.00141.90      A16S
ATOM  24065  C4* G  A1142     247.963 173.593  21.128  1.00141.90      A16S
ATOM  24066  O4* G  A1142     248.743 173.460  19.911  1.00141.90      A16S
ATOM  24067  C1* G  A1142     248.294 174.414  18.960  1.00141.90      A16S
ATOM  24068  N9   G  A1142     247.904 173.728  17.731  1.00160.53      A16S
ATOM  24069  C4   G  A1142     247.574 174.336  16.541  1.00160.53      A16S
ATOM  24070  N3   G  A1142     247.580 175.665  16.303  1.00160.53      A16S
ATOM  24071  C2   G  A1142     247.207 175.948  15.068  1.00160.53      A16S
ATOM  24072  N2   G  A1142     247.163 177.222  14.661  1.00160.53      A16S
ATOM  24073  N1   G  A1142     246.850 175.006  14.139  1.00160.53      A16S
ATOM  24074  C6   G  A1142     246.834 173.633  14.359  1.00160.53      A16S
ATOM  24075  O6   G  A1142     246.491 172.869  13.447  1.00160.53      A16S
ATOM  24076  C5   G  A1142     247.241 173.311  15.686  1.00160.53      A16S
ATOM  24077  N7   G  A1142     247.372 172.080  16.317  1.00160.53      A16S
ATOM  24078  C8   G  A1142     247.770 172.376  17.526  1.00160.53      A16S
ATOM  24079  C2* G  A1142     247.115 175.173  19.576  1.00141.90      A16S
ATOM  24080  O2* G  A1142     247.551 176.423  20.072  1.00141.90      A16S
ATOM  24081  C3* G  A1142     246.660 174.210  20.666  1.00141.90      A16S
ATOM  24082  O3* G  A1142     245.977 174.859  21.723  1.00141.90      A16S
ATOM  24083  P    G  A1143     244.404 174.602  21.915  1.00134.09      A16S
ATOM  24084  O1P G  A1143     243.929 175.506  22.993  1.00139.06      A16S
ATOM  24085  O2P G  A1143     244.186 173.134  22.034  1.00139.06      A16S
ATOM  24086  O5* G  A1143     243.770 175.098  20.540  1.00134.09      A16S
ATOM  24087  C5* G  A1143     244.042 176.421  20.041  1.00134.09      A16S
ATOM  24088  C4* G  A1143     243.700 176.512  18.574  1.00134.09      A16S
ATOM  24089  O4* G  A1143     244.548 175.606  17.820  1.00134.09      A16S
ATOM  24090  C1* G  A1143     243.812 175.038  16.748  1.00134.09      A16S
ATOM  24091  N9   G  A1143     243.762 173.588  16.947  1.00139.06      A16S
ATOM  24092  C4   G  A1143     243.668 172.618  15.970  1.00139.06      A16S
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ATOM  24093  N3  G  A1143     243.605 172.831  14.637  1.00139.06      A16S
ATOM  24094  C2  G  A1143     243.527 171.698  13.958  1.00139.06      A16S
ATOM  24095  N2  G  A1143     243.460 171.724  12.617  1.00139.06      A16S
ATOM  24096  N1  G  A1143     243.511 170.455  14.542  1.00139.06      A16S
ATOM  24097  C6  G  A1143     243.576 170.211  15.911  1.00139.06      A16S
ATOM  24098  O6  G  A1143     243.564 169.046  16.333  1.00139.06      A16S
ATOM  24099  C5  G  A1143     243.658 171.416  16.650  1.00139.06      A16S
ATOM  24100  N7  G  A1143     243.737 171.623  18.020  1.00139.06      A16S
ATOM  24101  C8  G  A1143     243.797 172.920  18.150  1.00139.06      A16S
ATOM  24102  C2* G  A1143     242.429 175.696  16.745  1.00134.09      A16S
ATOM  24103  O2* G  A1143     242.441 176.806  15.866  1.00134.09      A16S
ATOM  24104  C3* G  A1143     242.282 176.113  18.204  1.00134.09      A16S
ATOM  24105  O3* G  A1143     241.365 177.188  18.392  1.00134.09      A16S
ATOM  24106  P   G  A1144     239.821 176.872  18.727  1.00162.65      A16S
ATOM  24107  O1P G  A1144     239.204 178.120  19.243  1.00152.37      A16S
ATOM  24108  O2P G  A1144     239.741 175.626  19.537  1.00152.37      A16S
ATOM  24109  O5* G  A1144     239.185 176.582  17.298  1.00162.65      A16S
ATOM  24110  C5* G  A1144     239.210 177.585  16.263  1.00162.65      A16S
ATOM  24111  C4* G  A1144     238.933 176.956  14.918  1.00162.65      A16S
ATOM  24112  O4* G  A1144     240.025 176.067  14.562  1.00162.65      A16S
ATOM  24113  C1* G  A1144     239.514 174.918  13.904  1.00162.65      A16S
ATOM  24114  N9  G  A1144     239.739 173.764  14.769  1.00152.37      A16S
ATOM  24115  C4  G  A1144     240.030 172.490  14.363  1.00152.37      A16S
ATOM  24116  N3  G  A1144     240.188 172.088  13.088  1.00152.37      A16S
ATOM  24117  C2  G  A1144     240.452 170.802  13.011  1.00152.37      A16S
ATOM  24118  N2  G  A1144     240.640 170.240  11.816  1.00152.37      A16S
ATOM  24119  N1  G  A1144     240.551 169.972  14.102  1.00152.37      A16S
ATOM  24120  C6  G  A1144     240.390 170.367  15.427  1.00152.37      A16S
ATOM  24121  O6  G  A1144     240.498 169.540  16.341  1.00152.37      A16S
ATOM  24122  C5  G  A1144     240.110 171.744  15.522  1.00152.37      A16S
ATOM  24123  N7  G  A1144     239.884 172.537  16.636  1.00152.37      A16S
ATOM  24124  C8  G  A1144     239.673 173.727  16.144  1.00152.37      A16S
ATOM  24125  C2* G  A1144     238.016 175.132  13.708  1.00162.65      A16S
ATOM  24126  O2* G  A1144     237.760 175.706  12.441  1.00162.65      A16S
ATOM  24127  C3* G  A1144     237.703 176.069  14.863  1.00162.65      A16S
ATOM  24128  O3* G  A1144     236.500 176.781  14.679  1.00162.65      A16S
ATOM  24129  P   C  A1145     235.106 176.047  14.984  1.00123.11      A16S
ATOM  24130  O1P C  A1145     234.289 176.942  15.851  1.00114.94      A16S
ATOM  24131  O2P C  A1145     235.388 174.648  15.432  1.00114.94      A16S
ATOM  24132  O5* C  A1145     234.420 175.998  13.551  1.00123.11      A16S
ATOM  24133  C5* C  A1145     233.326 175.115  13.294  1.00123.11      A16S
ATOM  24134  C4* C  A1145     233.656 174.212  12.136  1.00123.11      A16S
ATOM  24135  O4* C  A1145     234.899 173.518  12.390  1.00123.11      A16S
ATOM  24136  C1* C  A1145     234.814 172.198  11.897  1.00123.11      A16S
ATOM  24137  N1  C  A1145     235.169 171.267  12.987  1.00114.94      A16S
ATOM  24138  C6  C  A1145     235.137 171.668  14.296  1.00114.94      A16S
ATOM  24139  C2  C  A1145     235.568 169.969  12.661  1.00114.94      A16S
ATOM  24140  O2  C  A1145     235.552 169.617  11.473  1.00114.94      A16S
ATOM  24141  N3  C  A1145     235.957 169.130  13.649  1.00114.94      A16S
ATOM  24142  C4  C  A1145     235.944 169.540  14.919  1.00114.94      A16S
ATOM  24143  N4  C  A1145     236.350 168.684  15.859  1.00114.94      A16S
ATOM  24144  C5  C  A1145     235.516 170.846  15.283  1.00114.94      A16S
ATOM  24145  C2* C  A1145     233.445 172.013  11.239  1.00123.11      A16S
ATOM  24146  O2* C  A1145     233.635 172.164   9.854  1.00123.11      A16S
ATOM  24147  C3* C  A1145     232.625 173.135  11.880  1.00123.11      A16S
ATOM  24148  O3* C  A1145     231.611 173.756  11.085  1.00123.11      A16S
ATOM  24149  P   A  A1146     230.776 172.912  10.008  1.00157.52      A16S
ATOM  24150  O1P A  A1146     229.565 173.729   9.711  1.00 80.53      A16S
ATOM  24151  O2P A  A1146     230.613 171.508  10.497  1.00 80.53      A16S
ATOM  24152  O5* A  A1146     231.725 172.932   8.722  1.00157.52      A16S
ATOM  24153  C5* A  A1146     232.008 174.171   8.032  1.00157.52      A16S
ATOM  24154  C4* A  A1146     233.018 173.965   6.913  1.00157.52      A16S
ATOM  24155  O4* A  A1146     234.384 174.084   7.388  1.00157.52      A16S
ATOM  24156  C1* A  A1146     235.248 173.385   6.503  1.00157.52      A16S
ATOM  24157  N9  A  A1146     236.087 172.452   7.258  1.00 80.53      A16S
ATOM  24158  C4  A  A1146     237.039 171.626   6.702  1.00 80.53      A16S
ATOM  24159  N3  A  A1146     237.382 171.533   5.402  1.00 80.53      A16S
ATOM  24160  C2  A  A1146     238.338 170.619   5.232  1.00 80.53      A16S
ATOM  24161  N1  A  A1146     238.949 169.846   6.143  1.00 80.53      A16S
ATOM  24162  C6  A  A1146     238.584 169.962   7.441  1.00 80.53      A16S
ATOM  24163  N6  A  A1146     239.194 169.189   8.346  1.00 80.53      A16S
ATOM  24164  C5  A  A1146     237.573 170.901   7.756  1.00 80.53      A16S
ATOM  24165  N7  A  A1146     236.976 171.270   8.957  1.00 80.53      A16S
ATOM  24166  C8  A  A1146     236.109 172.191   8.608  1.00 80.53      A16S
ATOM  24167  C2* A  A1146     234.381 172.663   5.470  1.00157.52      A16S
ATOM  24168  O2* A  A1146     234.398 173.391   4.259  1.00157.52      A16S
ATOM  24169  C3* A  A1146     233.016 172.651   6.151  1.00157.52      A16S
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ATOM	24170	O3*	A	A1146	231.978	172.556	5.196	1.00157.52		A16S
ATOM	24171	P	C	A1147	231.280	171.134	4.933	1.00106.73		A16S
ATOM	24172	O1P	C	A1147	230.781	170.617	6.244	1.00 66.23		A16S
ATOM	24173	O2P	C	A1147	230.327	171.329	3.807	1.00 66.23		A16S
ATOM	24174	O5*	C	A1147	232.476	170.178	4.477	1.00106.73		A16S
ATOM	24175	C5*	C	A1147	233.008	170.231	3.135	1.00106.73		A16S
ATOM	24176	C4*	C	A1147	234.066	169.160	2.929	1.00106.73		A16S
ATOM	24177	O4*	C	A1147	235.204	169.410	3.795	1.00106.73		A16S
ATOM	24178	C1*	C	A1147	235.809	168.177	4.155	1.00106.73		A16S
ATOM	24179	N1	C	A1147	235.799	168.037	5.622	1.00 66.23		A16S
ATOM	24180	C6	C	A1147	234.875	168.692	6.391	1.00 66.23		A16S
ATOM	24181	C2	C	A1147	236.752	167.192	6.225	1.00 66.23		A16S
ATOM	24182	O2	C	A1147	237.592	166.615	5.510	1.00 66.23		A16S
ATOM	24183	N3	C	A1147	236.730	167.024	7.568	1.00 66.23		A16S
ATOM	24184	C4	C	A1147	235.812	167.656	8.303	1.00 66.23		A16S
ATOM	24185	N4	C	A1147	235.817	167.446	9.619	1.00 66.23		A16S
ATOM	24186	C5	C	A1147	234.844	168.530	7.719	1.00 66.23		A16S
ATOM	24187	C2*	C	A1147	235.024	167.051	3.485	1.00106.73		A16S
ATOM	24188	O2*	C	A1147	235.709	166.644	2.317	1.00106.73		A16S
ATOM	24189	C3*	C	A1147	233.675	167.719	3.226	1.00106.73		A16S
ATOM	24190	O3*	C	A1147	232.987	167.114	2.138	1.00106.73		A16S
ATOM	24191	P	U	A1148	232.090	165.799	2.386	1.00 80.34		A16S
ATOM	24192	O1P	U	A1148	231.078	166.076	3.441	1.00 74.19		A16S
ATOM	24193	O2P	U	A1148	231.646	165.366	1.038	1.00 74.19		A16S
ATOM	24194	O5*	U	A1148	233.105	164.717	2.976	1.00 80.34		A16S
ATOM	24195	C5*	U	A1148	233.912	163.909	2.103	1.00 80.34		A16S
ATOM	24196	C4*	U	A1148	234.583	162.793	2.874	1.00 80.34		A16S
ATOM	24197	O4*	U	A1148	235.535	163.339	3.828	1.00 80.34		A16S
ATOM	24198	C1*	U	A1148	235.628	162.476	4.953	1.00 80.34		A16S
ATOM	24199	N1	U	A1148	235.240	163.220	6.161	1.00 74.19		A16S
ATOM	24200	C6	U	A1148	234.466	164.352	6.080	1.00 74.19		A16S
ATOM	24201	C2	U	A1148	235.651	162.721	7.398	1.00 74.19		A16S
ATOM	24202	O2	U	A1148	236.370	161.742	7.524	1.00 74.19		A16S
ATOM	24203	N3	U	A1148	235.183	163.415	8.481	1.00 74.19		A16S
ATOM	24204	C4	U	A1148	234.379	164.534	8.463	1.00 74.19		A16S
ATOM	24205	O4	U	A1148	233.960	164.988	9.525	1.00 74.19		A16S
ATOM	24206	C5	U	A1148	234.034	165.006	7.157	1.00 74.19		A16S
ATOM	24207	C2*	U	A1148	234.670	161.305	4.721	1.00 80.34		A16S
ATOM	24208	O2*	U	A1148	235.369	160.183	4.216	1.00 80.34		A16S
ATOM	24209	C3*	U	A1148	233.691	161.898	3.719	1.00 80.34		A16S
ATOM	24210	O3*	U	A1148	233.053	160.883	2.970	1.00 80.34		A16S
ATOM	24211	P	C	A1149	231.587	160.393	3.401	1.00 81.24		A16S
ATOM	24212	O1P	C	A1149	231.225	159.244	2.536	1.00 91.51		A16S
ATOM	24213	O2P	C	A1149	230.710	161.589	3.425	1.00 91.51		A16S
ATOM	24214	O5*	C	A1149	231.776	159.868	4.895	1.00 81.24		A16S
ATOM	24215	C5*	C	A1149	232.626	158.749	5.170	1.00 81.24		A16S
ATOM	24216	C4*	C	A1149	232.925	158.662	6.646	1.00 81.24		A16S
ATOM	24217	O4*	C	A1149	233.424	159.944	7.100	1.00 81.24		A16S
ATOM	24218	C1*	C	A1149	233.034	160.161	8.449	1.00 81.24		A16S
ATOM	24219	N1	C	A1149	232.261	161.418	8.527	1.00 91.51		A16S
ATOM	24220	C6	C	A1149	231.463	161.822	7.492	1.00 91.51		A16S
ATOM	24221	C2	C	A1149	232.353	162.198	9.690	1.00 91.51		A16S
ATOM	24222	O2	C	A1149	233.091	161.821	10.614	1.00 91.51		A16S
ATOM	24223	N3	C	A1149	231.639	163.344	9.775	1.00 91.51		A16S
ATOM	24224	C4	C	A1149	230.863	163.726	8.761	1.00 91.51		A16S
ATOM	24225	N4	C	A1149	230.175	164.864	8.891	1.00 91.51		A16S
ATOM	24226	C5	C	A1149	230.755	162.957	7.566	1.00 91.51		A16S
ATOM	24227	C2*	C	A1149	232.244	158.936	8.908	1.00 81.24		A16S
ATOM	24228	O2*	C	A1149	233.107	158.047	9.586	1.00 81.24		A16S
ATOM	24229	C3*	C	A1149	231.760	158.366	7.579	1.00 81.24		A16S
ATOM	24230	O3*	C	A1149	231.508	156.970	7.688	1.00 81.24		A16S
ATOM	24231	P	U	A1150	230.052	156.458	8.140	1.00 96.80		A16S
ATOM	24232	O1P	U	A1150	230.094	154.971	8.129	1.00 79.30		A16S
ATOM	24233	O2P	U	A1150	229.034	157.180	7.325	1.00 79.30		A16S
ATOM	24234	O5*	U	A1150	229.908	156.946	9.651	1.00 96.80		A16S
ATOM	24235	C5*	U	A1150	230.659	156.320	10.713	1.00 96.80		A16S
ATOM	24236	C4*	U	A1150	230.262	156.910	12.048	1.00 96.80		A16S
ATOM	24237	O4*	U	A1150	230.621	158.311	12.071	1.00 96.80		A16S
ATOM	24238	C1*	U	A1150	229.623	159.052	12.746	1.00 96.80		A16S
ATOM	24239	N1	U	A1150	229.091	160.054	11.813	1.00 79.30		A16S
ATOM	24240	C6	U	A1150	229.135	159.857	10.452	1.00 79.30		A16S
ATOM	24241	C2	U	A1150	228.565	161.215	12.345	1.00 79.30		A16S
ATOM	24242	O2	U	A1150	228.479	161.413	13.547	1.00 79.30		A16S
ATOM	24243	N3	U	A1150	228.139	162.137	11.418	1.00 79.30		A16S
ATOM	24244	C4	U	A1150	228.177	162.012	10.043	1.00 79.30		A16S
ATOM	24245	O4	U	A1150	227.801	162.949	9.335	1.00 79.30		A16S
ATOM	24246	C5	U	A1150	228.709	160.770	9.573	1.00 79.30		A16S

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ATOM  24247  C2* U   A1150     228.582 158.071  13.278  1.00 96.80      A16S
ATOM  24248  O2* U   A1150     228.899 157.774  14.620  1.00 96.80      A16S
ATOM  24249  C3* U   A1150     228.772 156.883  12.342  1.00 96.80      A16S
ATOM  24250  O3* U   A1150     228.403 155.651  12.945  1.00 96.80      A16S
ATOM  24251  P    A   A1151     227.011 154.959  12.545  1.00 81.49      A16S
ATOM  24252  O1P A   A1151     226.886 153.711  13.359  1.00 71.99      A16S
ATOM  24253  O2P A   A1151     226.913 154.901  11.063  1.00 71.99      A16S
ATOM  24254  O5* A   A1151     225.910 155.999  13.027  1.00 81.49      A16S
ATOM  24255  C5* A   A1151     225.757 156.294  14.415  1.00 81.49      A16S
ATOM  24256  C4* A   A1151     224.630 157.267  14.618  1.00 81.49      A16S
ATOM  24257  O4* A   A1151     224.983 158.565  14.069  1.00 81.49      A16S
ATOM  24258  C1* A   A1151     223.889 159.068  13.347  1.00 81.49      A16S
ATOM  24259  N9   A   A1151     224.366 159.996  12.324  1.00 71.99      A16S
ATOM  24260  C4   A   A1151     224.099 161.344  12.298  1.00 71.99      A16S
ATOM  24261  N3   A   A1151     223.408 162.055  13.206  1.00 71.99      A16S
ATOM  24262  C2   A   A1151     223.332 163.331  12.842  1.00 71.99      A16S
ATOM  24263  N1   A   A1151     223.822 163.933  11.753  1.00 71.99      A16S
ATOM  24264  C6   A   A1151     224.507 163.190  10.858  1.00 71.99      A16S
ATOM  24265  N6   A   A1151     224.980 163.791   9.762  1.00 71.99      A16S
ATOM  24266  C5   A   A1151     224.671 161.820  11.136  1.00 71.99      A16S
ATOM  24267  N7   A   A1151     225.313 160.798  10.453  1.00 71.99      A16S
ATOM  24268  C8   A   A1151     225.111 159.741  11.204  1.00 71.99      A16S
ATOM  24269  C2* A   A1151     223.157 157.838  12.822  1.00 81.49      A16S
ATOM  24270  O2* A   A1151     221.812 158.158  12.531  1.00 81.49      A16S
ATOM  24271  C3* A   A1151     223.288 156.887  14.006  1.00 81.49      A16S
ATOM  24272  O3* A   A1151     222.261 157.169  14.940  1.00 81.49      A16S
ATOM  24273  P    A   A1152     220.851 156.423  14.816  1.00 91.20      A16S
ATOM  24274  O1P A   A1152     220.538 155.963  16.193  1.00 84.06      A16S
ATOM  24275  O2P A   A1152     220.932 155.429  13.719  1.00 84.06      A16S
ATOM  24276  O5* A   A1152     219.852 157.585  14.359  1.00 91.20      A16S
ATOM  24277  C5* A   A1152     219.157 158.372  15.338  1.00 91.20      A16S
ATOM  24278  C4* A   A1152     218.688 159.698  14.768  1.00 91.20      A16S
ATOM  24279  O4* A   A1152     219.810 160.487  14.301  1.00 91.20      A16S
ATOM  24280  C1* A   A1152     219.315 161.520  13.474  1.00 91.20      A16S
ATOM  24281  N9   A   A1152     220.166 161.681  12.297  1.00 84.06      A16S
ATOM  24282  C4   A   A1152     220.347 162.867  11.628  1.00 84.06      A16S
ATOM  24283  N3   A   A1152     219.812 164.062  11.931  1.00 84.06      A16S
ATOM  24284  C2   A   A1152     220.211 164.991  11.063  1.00 84.06      A16S
ATOM  24285  N1   A   A1152     221.015 164.870  10.002  1.00 84.06      A16S
ATOM  24286  C6   A   A1152     221.529 163.656   9.719  1.00 84.06      A16S
ATOM  24287  N6   A   A1152     222.320 163.537   8.651  1.00 84.06      A16S
ATOM  24288  C5   A   A1152     221.192 162.583  10.574  1.00 84.06      A16S
ATOM  24289  N7   A   A1152     221.548 161.240  10.582  1.00 84.06      A16S
ATOM  24290  C8   A   A1152     220.915 160.752  11.622  1.00 84.06      A16S
ATOM  24291  C2* A   A1152     217.866 161.189  13.122  1.00 91.20      A16S
ATOM  24292  O2* A   A1152     217.032 162.063  13.853  1.00 91.20      A16S
ATOM  24293  C3* A   A1152     217.736 159.736  13.579  1.00 91.20      A16S
ATOM  24294  O3* A   A1152     216.381 159.471  13.951  1.00 91.20      A16S
ATOM  24295  P    C   A1153     215.257 159.250  12.809  1.00 83.56      A16S
ATOM  24296  O1P C   A1153     214.050 158.714  13.489  1.00113.60      A16S
ATOM  24297  O2P C   A1153     215.847 158.503  11.668  1.00113.60      A16S
ATOM  24298  O5* C   A1153     214.917 160.721  12.299  1.00 83.56      A16S
ATOM  24299  C5* C   A1153     214.220 161.661  13.141  1.00 83.56      A16S
ATOM  24300  C4* C   A1153     214.205 163.025  12.496  1.00 83.56      A16S
ATOM  24301  O4* C   A1153     215.570 163.484  12.330  1.00 83.56      A16S
ATOM  24302  C1* C   A1153     215.685 164.224  11.124  1.00 83.56      A16S
ATOM  24303  N1   C   A1153     216.703 163.598  10.260  1.00113.60      A16S
ATOM  24304  C6   C   A1153     217.022 162.275  10.383  1.00113.60      A16S
ATOM  24305  C2   C   A1153     217.335 164.387   9.290  1.00113.60      A16S
ATOM  24306  O2   C   A1153     217.033 165.584   9.198  1.00113.60      A16S
ATOM  24307  N3   C   A1153     218.252 163.826   8.475  1.00113.60      A16S
ATOM  24308  C4   C   A1153     218.546 162.531   8.596  1.00113.60      A16S
ATOM  24309  N4   C   A1153     219.448 162.014   7.757  1.00113.60      A16S
ATOM  24310  C5   C   A1153     217.926 161.706   9.581  1.00113.60      A16S
ATOM  24311  C2* C   A1153     214.308 164.266  10.461  1.00 83.56      A16S
ATOM  24312  O2* C   A1153     213.676 165.496  10.740  1.00 83.56      A16S
ATOM  24313  C3* C   A1153     213.616 163.066  11.095  1.00 83.56      A16S
ATOM  24314  O3* C   A1153     212.203 163.217  11.110  1.00 83.56      A16S
ATOM  24315  P    G   A1154     211.343 162.763   9.828  1.00101.91      A16S
ATOM  24316  O1P G   A1154     209.924 163.121  10.099  1.00129.61      A16S
ATOM  24317  O2P G   A1154     211.698 161.351   9.523  1.00129.61      A16S
ATOM  24318  O5* G   A1154     211.879 163.695   8.647  1.00101.91      A16S
ATOM  24319  C5* G   A1154     211.614 165.104   8.668  1.00101.91      A16S
ATOM  24320  C4* G   A1154     212.417 165.832   7.613  1.00101.91      A16S
ATOM  24321  O4* G   A1154     213.840 165.625   7.807  1.00101.91      A16S
ATOM  24322  C1* G   A1154     214.510 165.900   6.588  1.00101.91      A16S
ATOM  24323  N9   G   A1154     215.468 164.841   6.285  1.00129.61      A16S
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ATOM  24324  C4  G  A1154     216.411 164.895   5.292  1.00129.61      A16S
ATOM  24325  N3  G  A1154     216.611 165.931   4.453  1.00129.61      A16S
ATOM  24326  C2  G  A1154     217.576 165.687   3.589  1.00129.61      A16S
ATOM  24327  N2  G  A1154     217.898 166.613   2.679  1.00129.61      A16S
ATOM  24328  N1  G  A1154     218.293 164.516   3.552  1.00129.61      A16S
ATOM  24329  C6  G  A1154     218.105 163.435   4.408  1.00129.61      A16S
ATOM  24330  O6  G  A1154     218.807 162.425   4.287  1.00129.61      A16S
ATOM  24331  C5  G  A1154     217.067 163.686   5.341  1.00129.61      A16S
ATOM  24332  N7  G  A1154     216.553 162.888   6.353  1.00129.61      A16S
ATOM  24333  C8  G  A1154     215.608 163.614   6.888  1.00129.61      A16S
ATOM  24334  C2* G  A1154     213.454 166.041   5.491  1.00101.91      A16S
ATOM  24335  O2* G  A1154     213.311 167.408   5.174  1.00101.91      A16S
ATOM  24336  C3* G  A1154     212.211 165.457   6.156  1.00101.91      A16S
ATOM  24337  O3* G  A1154     211.045 166.055   5.613  1.00101.91      A16S
ATOM  24338  P   G  A1155     210.462 165.526   4.213  1.00 96.81      A16S
ATOM  24339  O1P G  A1155     209.113 166.129   4.037  1.00120.82      A16S
ATOM  24340  O2P G  A1155     210.615 164.049   4.180  1.00120.82      A16S
ATOM  24341  O5* G  A1155     211.430 166.158   3.119  1.00 96.81      A16S
ATOM  24342  C5* G  A1155     211.485 167.579   2.926  1.00 96.81      A16S
ATOM  24343  C4* G  A1155     212.552 167.927   1.922  1.00 96.81      A16S
ATOM  24344  O4* G  A1155     213.825 167.415   2.386  1.00 96.81      A16S
ATOM  24345  C1* G  A1155     214.609 167.008   1.278  1.00 96.81      A16S
ATOM  24346  N9  G  A1155     215.034 165.624   1.485  1.00120.82      A16S
ATOM  24347  C4  G  A1155     215.951 164.929   0.730  1.00120.82      A16S
ATOM  24348  N3  G  A1155     216.591 165.391  -0.363  1.00120.82      A16S
ATOM  24349  C2  G  A1155     217.428 164.498  -0.860  1.00120.82      A16S
ATOM  24350  N2  G  A1155     218.147 164.794  -1.954  1.00120.82      A16S
ATOM  24351  N1  G  A1155     217.623 163.249  -0.324  1.00120.82      A16S
ATOM  24352  C6  G  A1155     216.974 162.751   0.801  1.00120.82      A16S
ATOM  24353  O6  G  A1155     217.226 161.609   1.205  1.00120.82      A16S
ATOM  24354  C5  G  A1155     216.069 163.698   1.341  1.00120.82      A16S
ATOM  24355  N7  G  A1155     215.229 163.610   2.441  1.00120.82      A16S
ATOM  24356  C8  G  A1155     214.630 164.769   2.483  1.00120.82      A16S
ATOM  24357  C2* G  A1155     213.801 167.269   0.005  1.00 96.81      A16S
ATOM  24358  O2* G  A1155     214.195 168.507  -0.556  1.00 96.81      A16S
ATOM  24359  C3* G  A1155     212.376 167.319   0.542  1.00 96.81      A16S
ATOM  24360  O3* G  A1155     211.546 168.136  -0.267  1.00 96.81      A16S
ATOM  24361  P   G  A1156     210.514 167.449  -1.285  1.00113.02      A16S
ATOM  24362  O1P G  A1156     209.881 168.534  -2.084  1.00 90.51      A16S
ATOM  24363  O2P G  A1156     209.662 166.531  -0.488  1.00 90.51      A16S
ATOM  24364  O5* G  A1156     211.445 166.584  -2.250  1.00113.02      A16S
ATOM  24365  C5* G  A1156     212.278 167.224  -3.242  1.00113.02      A16S
ATOM  24366  C4* G  A1156     213.123 166.204  -3.977  1.00113.02      A16S
ATOM  24367  O4* G  A1156     214.142 165.658  -3.099  1.00113.02      A16S
ATOM  24368  C1* G  A1156     214.398 164.306  -3.443  1.00113.02      A16S
ATOM  24369  N9  G  A1156     214.132 163.470  -2.276  1.00 90.51      A16S
ATOM  24370  C4  G  A1156     214.724 162.262  -1.978  1.00 90.51      A16S
ATOM  24371  N3  G  A1156     215.668 161.636  -2.714  1.00 90.51      A16S
ATOM  24372  C2  G  A1156     216.050 160.498  -2.160  1.00 90.51      A16S
ATOM  24373  N2  G  A1156     216.993 159.751  -2.750  1.00 90.51      A16S
ATOM  24374  N1  G  A1156     215.542 160.008  -0.985  1.00 90.51      A16S
ATOM  24375  C6  G  A1156     214.571 160.631  -0.211  1.00 90.51      A16S
ATOM  24376  O6  G  A1156     214.189 160.105   0.840  1.00 90.51      A16S
ATOM  24377  C5  G  A1156     214.153 161.857  -0.790  1.00 90.51      A16S
ATOM  24378  N7  G  A1156     213.221 162.787  -0.349  1.00 90.51      A16S
ATOM  24379  C8  G  A1156     213.243 163.724  -1.258  1.00 90.51      A16S
ATOM  24380  C2* G  A1156     213.513 163.957  -4.640  1.00113.02      A16S
ATOM  24381  O2* G  A1156     214.273 164.109  -5.821  1.00113.02      A16S
ATOM  24382  C3* G  A1156     212.394 164.987  -4.511  1.00113.02      A16S
ATOM  24383  O3* G  A1156     211.736 165.263  -5.740  1.00113.02      A16S
ATOM  24384  P   A  A1157     210.142 165.073  -5.839  1.00 87.65      A16S
ATOM  24385  O1P A  A1157     209.574 166.388  -6.241  1.00110.47      A16S
ATOM  24386  O2P A  A1157     209.669 164.412  -4.586  1.00110.47      A16S
ATOM  24387  O5* A  A1157     209.933 164.053  -7.047  1.00 87.65      A16S
ATOM  24388  C5* A  A1157     208.704 163.305  -7.201  1.00 87.65      A16S
ATOM  24389  C4* A  A1157     209.018 161.885  -7.605  1.00 87.65      A16S
ATOM  24390  O4* A  A1157     209.837 161.946  -8.796  1.00 87.65      A16S
ATOM  24391  C1* A  A1157     211.100 161.372  -8.544  1.00 87.65      A16S
ATOM  24392  N9  A  A1157     212.093 162.201  -9.225  1.00110.47      A16S
ATOM  24393  C4  A  A1157     213.097 161.766 -10.053  1.00110.47      A16S
ATOM  24394  N3  A  A1157     213.400 160.497 -10.368  1.00110.47      A16S
ATOM  24395  C2  A  A1157     214.417 160.459 -11.217  1.00110.47      A16S
ATOM  24396  N1  A  A1157     215.113 161.469 -11.754  1.00110.47      A16S
ATOM  24397  C6  A  A1157     214.780 162.732 -11.419  1.00110.47      A16S
ATOM  24398  N6  A  A1157     215.466 163.742 -11.961  1.00110.47      A16S
ATOM  24399  C5  A  A1157     213.723 162.907 -10.517  1.00110.47      A16S
ATOM  24400  N7  A  A1157     213.147 164.042  -9.967  1.00110.47      A16S
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ATOM  24401  C8  A   A1157     212.192 163.570  -9.205  1.00110.47      A16S
ATOM  24402  C2* A   A1157     211.257 161.293  -7.026  1.00 87.65      A16S
ATOM  24403  O2* A   A1157     212.105 160.227  -6.650  1.00 87.65      A16S
ATOM  24404  C3* A   A1157     209.814 161.092  -6.572  1.00 87.65      A16S
ATOM  24405  O3* A   A1157     209.493 159.700  -6.668  1.00 87.65      A16S
ATOM  24406  P   C   A1158     208.065 159.157  -6.158  1.00107.51      A16S
ATOM  24407  O1P C   A1158     207.733 159.849  -4.888  1.00100.67      A16S
ATOM  24408  O2P C   A1158     208.106 157.673  -6.190  1.00100.67      A16S
ATOM  24409  O5* C   A1158     207.047 159.659  -7.280  1.00107.51      A16S
ATOM  24410  C5* C   A1158     205.648 159.837  -6.984  1.00107.51      A16S
ATOM  24411  C4* C   A1158     204.941 160.536  -8.127  1.00107.51      A16S
ATOM  24412  O4* C   A1158     205.482 161.861  -8.318  1.00107.51      A16S
ATOM  24413  C1* C   A1158     205.253 162.263  -9.653  1.00107.51      A16S
ATOM  24414  N1  C   A1158     206.413 163.042 -10.125  1.00100.67      A16S
ATOM  24415  C6  C   A1158     206.330 164.405 -10.180  1.00100.67      A16S
ATOM  24416  C2  C   A1158     207.598 162.393 -10.503  1.00100.67      A16S
ATOM  24417  O2  C   A1158     207.657 161.155 -10.448  1.00100.67      A16S
ATOM  24418  N3  C   A1158     208.650 163.138 -10.914  1.00100.67      A16S
ATOM  24419  C4  C   A1158     208.553 164.468 -10.956  1.00100.67      A16S
ATOM  24420  N4  C   A1158     209.610 165.161 -11.370  1.00100.67      A16S
ATOM  24421  C5  C   A1158     207.366 165.147 -10.579  1.00100.67      A16S
ATOM  24422  C2* C   A1158     204.799 161.047 -10.471  1.00107.51      A16S
ATOM  24423  O2* C   A1158     203.447 161.223 -10.844  1.00107.51      A16S
ATOM  24424  C3* C   A1158     205.040 159.885  -9.498  1.00107.51      A16S
ATOM  24425  O3* C   A1158     204.030 158.884  -9.593  1.00107.51      A16S
ATOM  24426  P   U   A1159     204.098 157.780 -10.753  1.00 76.95      A16S
ATOM  24427  O1P U   A1159     203.173 156.698 -10.345  1.00 98.62      A16S
ATOM  24428  O2P U   A1159     205.523 157.459 -11.016  1.00 98.62      A16S
ATOM  24429  O5* U   A1159     203.490 158.528 -12.023  1.00 76.95      A16S
ATOM  24430  C5* U   A1159     204.046 158.326 -13.332  1.00 76.95      A16S
ATOM  24431  C4* U   A1159     204.436 159.653 -13.933  1.00 76.95      A16S
ATOM  24432  O4* U   A1159     205.561 159.480 -14.832  1.00 76.95      A16S
ATOM  24433  C1* U   A1159     205.286 160.120 -16.055  1.00 76.95      A16S
ATOM  24434  N1  U   A1159     205.972 159.386 -17.129  1.00 98.62      A16S
ATOM  24435  C6  U   A1159     206.059 158.013 -17.127  1.00 98.62      A16S
ATOM  24436  C2  U   A1159     206.548 160.128 -18.140  1.00 98.62      A16S
ATOM  24437  O2  U   A1159     206.484 161.345 -18.189  1.00 98.62      A16S
ATOM  24438  N3  U   A1159     207.206 159.394 -19.095  1.00 98.62      A16S
ATOM  24439  C4  U   A1159     207.344 158.024 -19.145  1.00 98.62      A16S
ATOM  24440  O4  U   A1159     208.006 157.513 -20.052  1.00 98.62      A16S
ATOM  24441  C5  U   A1159     206.709 157.327 -18.074  1.00 98.62      A16S
ATOM  24442  C2* U   A1159     203.764 160.208 -16.157  1.00 76.95      A16S
ATOM  24443  O2* U   A1159     203.399 161.289 -16.989  1.00 76.95      A16S
ATOM  24444  C3* U   A1159     203.365 160.428 -14.695  1.00 76.95      A16S
ATOM  24445  O3* U   A1159     203.491 161.815 -14.379  1.00 76.95      A16S
ATOM  24446  P   G   A1160     202.195 162.676 -13.957  1.00 83.80      A16S
ATOM  24447  O1P G   A1160     201.891 162.380 -12.529  1.00106.46      A16S
ATOM  24448  O2P G   A1160     201.140 162.485 -14.990  1.00106.46      A16S
ATOM  24449  O5* G   A1160     202.717 164.178 -14.063  1.00 83.80      A16S
ATOM  24450  C5* G   A1160     202.614 165.087 -12.947  1.00 83.80      A16S
ATOM  24451  C4* G   A1160     203.647 166.193 -13.060  1.00 83.80      A16S
ATOM  24452  O4* G   A1160     204.898 165.820 -12.422  1.00 83.80      A16S
ATOM  24453  C1* G   A1160     205.979 166.435 -13.107  1.00 83.80      A16S
ATOM  24454  N9  G   A1160     206.888 165.402 -13.601  1.00106.46      A16S
ATOM  24455  C4  G   A1160     208.111 165.622 -14.191  1.00106.46      A16S
ATOM  24456  N3  G   A1160     208.687 166.825 -14.392  1.00106.46      A16S
ATOM  24457  C2  G   A1160     209.850 166.717 -15.002  1.00106.46      A16S
ATOM  24458  N2  G   A1160     210.556 167.815 -15.281  1.00106.46      A16S
ATOM  24459  N1  G   A1160     210.405 165.523 -15.387  1.00106.46      A16S
ATOM  24460  C6  G   A1160     209.829 164.274 -15.194  1.00106.46      A16S
ATOM  24461  O6  G   A1160     210.411 163.260 -15.591  1.00106.46      A16S
ATOM  24462  C5  G   A1160     208.582 164.374 -14.534  1.00106.46      A16S
ATOM  24463  N7  G   A1160     207.686 163.387 -14.151  1.00106.46      A16S
ATOM  24464  C8  G   A1160     206.699 164.040 -13.600  1.00106.46      A16S
ATOM  24465  C2* G   A1160     205.401 167.263 -14.255  1.00 83.80      A16S
ATOM  24466  O2* G   A1160     205.334 168.620 -13.865  1.00 83.80      A16S
ATOM  24467  C3* G   A1160     204.048 166.591 -14.467  1.00 83.80      A16S
ATOM  24468  O3* G   A1160     203.093 167.416 -15.100  1.00 83.80      A16S
ATOM  24469  P   C   A1161     202.974 167.385 -16.698  1.00108.31      A16S
ATOM  24470  O1P C   A1161     201.860 168.283 -17.095  1.00119.21      A16S
ATOM  24471  O2P C   A1161     202.976 165.968 -17.148  1.00119.21      A16S
ATOM  24472  O5* C   A1161     204.335 168.053 -17.170  1.00108.31      A16S
ATOM  24473  C5* C   A1161     204.678 169.384 -16.748  1.00108.31      A16S
ATOM  24474  C4* C   A1161     205.923 169.835 -17.452  1.00108.31      A16S
ATOM  24475  O4* C   A1161     207.068 169.116 -16.934  1.00108.31      A16S
ATOM  24476  C1* C   A1161     207.974 168.849 -17.992  1.00108.31      A16S
ATOM  24477  N1  C   A1161     208.206 167.397 -18.073  1.00119.21      A16S
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ATOM  24478  C6  C  A1161     207.312 166.504 -17.547  1.00119.21      A16S
ATOM  24479  C2  C  A1161     209.364 166.942 -18.708  1.00119.21      A16S
ATOM  24480  O2  C  A1161     210.157 167.772 -19.174  1.00119.21      A16S
ATOM  24481  N3  C  A1161     209.589 165.614 -18.800  1.00119.21      A16S
ATOM  24482  C4  C  A1161     208.710 164.752 -18.289  1.00119.21      A16S
ATOM  24483  N4  C  A1161     208.971 163.450 -18.410  1.00119.21      A16S
ATOM  24484  C5  C  A1161     207.522 165.185 -17.633  1.00119.21      A16S
ATOM  24485  C2* C  A1161     207.391 169.428 -19.281  1.00108.31      A16S
ATOM  24486  O2* C  A1161     207.978 170.681 -19.558  1.00108.31      A16S
ATOM  24487  C3* C  A1161     205.913 169.524 -18.935  1.00108.31      A16S
ATOM  24488  O3* C  A1161     205.234 170.524 -19.665  1.00108.31      A16S
ATOM  24489  P   C  A1162     204.580 170.151 -21.078  1.00114.92      A16S
ATOM  24490  O1P C  A1162     203.880 171.362 -21.579  1.00162.55      A16S
ATOM  24491  O2P C  A1162     203.825 168.881 -20.911  1.00162.55      A16S
ATOM  24492  O5* C  A1162     205.840 169.871 -22.011  1.00114.92      A16S
ATOM  24493  C5* C  A1162     206.698 170.948 -22.446  1.00114.92      A16S
ATOM  24494  C4* C  A1162     207.699 170.437 -23.450  1.00114.92      A16S
ATOM  24495  O4* C  A1162     208.665 169.588 -22.783  1.00114.92      A16S
ATOM  24496  C1* C  A1162     208.974 168.476 -23.606  1.00114.92      A16S
ATOM  24497  N1  C  A1162     208.581 167.251 -22.888  1.00162.55      A16S
ATOM  24498  C6  C  A1162     207.622 167.286 -21.912  1.00162.55      A16S
ATOM  24499  C2  C  A1162     209.201 166.043 -23.221  1.00162.55      A16S
ATOM  24500  O2  C  A1162     210.076 166.036 -24.099  1.00162.55      A16S
ATOM  24501  N3  C  A1162     208.835 164.914 -22.576  1.00162.55      A16S
ATOM  24502  C4  C  A1162     207.897 164.960 -21.630  1.00162.55      A16S
ATOM  24503  N4  C  A1162     207.569 163.820 -21.021  1.00162.55      A16S
ATOM  24504  C5  C  A1162     207.254 166.176 -21.265  1.00162.55      A16S
ATOM  24505  C2* C  A1162     208.233 168.650 -24.933  1.00114.92      A16S
ATOM  24506  O2* C  A1162     209.082 169.234 -25.897  1.00114.92      A16S
ATOM  24507  C3* C  A1162     207.084 169.557 -24.521  1.00114.92      A16S
ATOM  24508  O3* C  A1162     206.541 170.321 -25.580  1.00114.92      A16S
ATOM  24509  P   C  A1163     205.118 169.906 -26.193  1.00110.23      A16S
ATOM  24510  O1P C  A1163     204.558 171.093 -26.890  1.00120.72      A16S
ATOM  24511  O2P C  A1163     204.328 169.246 -25.115  1.00120.72      A16S
ATOM  24512  O5* C  A1163     205.498 168.822 -27.294  1.00110.23      A16S
ATOM  24513  C5* C  A1163     206.299 169.196 -28.420  1.00110.23      A16S
ATOM  24514  C4* C  A1163     206.788 167.975 -29.148  1.00110.23      A16S
ATOM  24515  O4* C  A1163     207.681 167.214 -28.297  1.00110.23      A16S
ATOM  24516  C1* C  A1163     207.540 165.832 -28.578  1.00110.23      A16S
ATOM  24517  N1  C  A1163     207.129 165.137 -27.349  1.00120.72      A16S
ATOM  24518  C6  C  A1163     206.533 165.813 -26.319  1.00120.72      A16S
ATOM  24519  C2  C  A1163     207.351 163.761 -27.256  1.00120.72      A16S
ATOM  24520  O2  C  A1163     207.904 163.175 -28.203  1.00120.72      A16S
ATOM  24521  N3  C  A1163     206.962 163.105 -26.138  1.00120.72      A16S
ATOM  24522  C4  C  A1163     206.377 163.774 -25.140  1.00120.72      A16S
ATOM  24523  N4  C  A1163     206.006 163.085 -24.057  1.00120.72      A16S
ATOM  24524  C5  C  A1163     206.146 165.178 -25.208  1.00120.72      A16S
ATOM  24525  C2* C  A1163     206.504 165.681 -29.691  1.00110.23      A16S
ATOM  24526  O2* C  A1163     207.182 165.541 -30.922  1.00110.23      A16S
ATOM  24527  C3* C  A1163     205.720 166.983 -29.559  1.00110.23      A16S
ATOM  24528  O3* C  A1163     205.076 167.379 -30.759  1.00110.23      A16S
ATOM  24529  P   G  A1164     203.605 166.826 -31.077  1.00119.82      A16S
ATOM  24530  O1P G  A1164     203.182 167.399 -32.380  1.00109.43      A16S
ATOM  24531  O2P G  A1164     202.754 167.024 -29.875  1.00109.43      A16S
ATOM  24532  O5* G  A1164     203.846 165.266 -31.276  1.00119.82      A16S
ATOM  24533  C5* G  A1164     204.715 164.800 -32.322  1.00119.82      A16S
ATOM  24534  C4* G  A1164     204.844 163.296 -32.286  1.00119.82      A16S
ATOM  24535  O4* G  A1164     205.657 162.870 -31.161  1.00119.82      A16S
ATOM  24536  C1* G  A1164     205.218 161.593 -30.720  1.00119.82      A16S
ATOM  24537  N9  G  A1164     204.772 161.693 -29.333  1.00109.43      A16S
ATOM  24538  C4  G  A1164     204.505 160.634 -28.498  1.00109.43      A16S
ATOM  24539  N3  G  A1164     204.629 159.328 -28.814  1.00109.43      A16S
ATOM  24540  C2  G  A1164     204.295 158.542 -27.810  1.00109.43      A16S
ATOM  24541  N2  G  A1164     204.367 157.215 -27.958  1.00109.43      A16S
ATOM  24542  N1  G  A1164     203.869 159.002 -26.590  1.00109.43      A16S
ATOM  24543  C6  G  A1164     203.736 160.342 -26.240  1.00109.43      A16S
ATOM  24544  O6  G  A1164     203.349 160.647 -25.108  1.00109.43      A16S
ATOM  24545  C5  G  A1164     204.093 161.196 -27.311  1.00109.43      A16S
ATOM  24546  N7  G  A1164     204.106 162.582 -27.392  1.00109.43      A16S
ATOM  24547  C8  G  A1164     204.517 162.832 -28.606  1.00109.43      A16S
ATOM  24548  C2* G  A1164     204.062 161.165 -31.622  1.00119.82      A16S
ATOM  24549  O2* G  A1164     204.539 160.328 -32.658  1.00119.82      A16S
ATOM  24550  C3* G  A1164     203.559 162.509 -32.123  1.00119.82      A16S
ATOM  24551  O3* G  A1164     202.803 162.409 -33.310  1.00119.82      A16S
ATOM  24552  P   C  A1165     201.203 162.358 -33.208  1.00108.37      A16S
ATOM  24553  O1P C  A1165     200.667 162.483 -34.588  1.00104.02      A16S
ATOM  24554  O2P C  A1165     200.766 163.320 -32.161  1.00104.02      A16S
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ATOM  24555  O5* C   A1165     200.915 160.886 -32.675  1.00108.37      A16S
ATOM  24556  C5* C   A1165     201.238 159.742 -33.484  1.00108.37      A16S
ATOM  24557  C4* C   A1165     200.795 158.475 -32.799  1.00108.37      A16S
ATOM  24558  O4* C   A1165     201.640 158.225 -31.643  1.00108.37      A16S
ATOM  24559  C1* C   A1165     200.861 157.678 -30.588  1.00108.37      A16S
ATOM  24560  N1  C   A1165     200.806 158.655 -29.476  1.00104.02      A16S
ATOM  24561  C6  C   A1165     200.898 160.000 -29.713  1.00104.02      A16S
ATOM  24562  C2  C   A1165     200.642 158.183 -28.167  1.00104.02      A16S
ATOM  24563  O2  C   A1165     200.554 156.964 -27.975  1.00104.02      A16S
ATOM  24564  N3  C   A1165     200.578 159.068 -27.146  1.00104.02      A16S
ATOM  24565  C4  C   A1165     200.667 160.377 -27.392  1.00104.02      A16S
ATOM  24566  N4  C   A1165     200.597 161.216 -26.354  1.00104.02      A16S
ATOM  24567  C5  C   A1165     200.832 160.886 -28.712  1.00104.02      A16S
ATOM  24568  C2* C   A1165     199.461 157.440 -31.144  1.00108.37      A16S
ATOM  24569  O2* C   A1165     199.364 156.124 -31.657  1.00108.37      A16S
ATOM  24570  C3* C   A1165     199.391 158.507 -32.225  1.00108.37      A16S
ATOM  24571  O3* C   A1165     198.356 158.293 -33.166  1.00108.37      A16S
ATOM  24572  P   G   A1166     196.905 158.931 -32.883  1.00120.78      A16S
ATOM  24573  O1P G   A1166     196.022 158.508 -34.000  1.00116.08      A16S
ATOM  24574  O2P G   A1166     197.053 160.381 -32.573  1.00116.08      A16S
ATOM  24575  O5* G   A1166     196.433 158.205 -31.544  1.00120.78      A16S
ATOM  24576  C5* G   A1166     196.423 156.769 -31.461  1.00120.78      A16S
ATOM  24577  C4* G   A1166     196.094 156.311 -30.060  1.00120.78      A16S
ATOM  24578  O4* G   A1166     197.152 156.673 -29.134  1.00120.78      A16S
ATOM  24579  C1* G   A1166     196.600 156.888 -27.844  1.00120.78      A16S
ATOM  24580  N9  G   A1166     196.849 158.268 -27.436  1.00116.08      A16S
ATOM  24581  C4  G   A1166     196.868 158.738 -26.145  1.00116.08      A16S
ATOM  24582  N3  G   A1166     196.709 157.995 -25.032  1.00116.08      A16S
ATOM  24583  C2  G   A1166     196.748 158.731 -23.938  1.00116.08      A16S
ATOM  24584  N2  G   A1166     196.612 158.152 -22.741  1.00116.08      A16S
ATOM  24585  N1  G   A1166     196.925 160.090 -23.933  1.00116.08      A16S
ATOM  24586  C6  G   A1166     197.088 160.879 -25.065  1.00116.08      A16S
ATOM  24587  O6  G   A1166     197.232 162.104 -24.948  1.00116.08      A16S
ATOM  24588  C5  G   A1166     197.055 160.098 -26.252  1.00116.08      A16S
ATOM  24589  N7  G   A1166     197.180 160.475 -27.582  1.00116.08      A16S
ATOM  24590  C8  G   A1166     197.061 159.358 -28.248  1.00116.08      A16S
ATOM  24591  C2* G   A1166     195.094 156.645 -27.945  1.00120.78      A16S
ATOM  24592  O2* G   A1166     194.803 155.317 -27.558  1.00120.78      A16S
ATOM  24593  C3* G   A1166     194.846 156.892 -29.426  1.00120.78      A16S
ATOM  24594  O3* G   A1166     193.657 156.278 -29.881  1.00120.78      A16S
ATOM  24595  P   A   A1167     192.379 157.196 -30.197  1.00103.19      A16S
ATOM  24596  O1P A   A1167     191.240 156.278 -30.444  1.00 96.31      A16S
ATOM  24597  O2P A   A1167     192.759 158.188 -31.236  1.00 96.31      A16S
ATOM  24598  O5* A   A1167     192.121 157.975 -28.829  1.00103.19      A16S
ATOM  24599  C5* A   A1167     191.096 158.988 -28.723  1.00103.19      A16S
ATOM  24600  C4* A   A1167     190.283 158.779 -27.462  1.00103.19      A16S
ATOM  24601  O4* A   A1167     189.503 157.565 -27.588  1.00103.19      A16S
ATOM  24602  C1* A   A1167     189.477 156.879 -26.347  1.00103.19      A16S
ATOM  24603  N9  A   A1167     190.054 155.544 -26.549  1.00 96.31      A16S
ATOM  24604  C4  A   A1167     190.097 154.517 -25.636  1.00 96.31      A16S
ATOM  24605  N3  A   A1167     189.657 154.537 -24.368  1.00 96.31      A16S
ATOM  24606  C2  A   A1167     189.841 153.354 -23.795  1.00 96.31      A16S
ATOM  24607  N1  A   A1167     190.374 152.237 -24.304  1.00 96.31      A16S
ATOM  24608  C6  A   A1167     190.802 152.250 -25.581  1.00 96.31      A16S
ATOM  24609  N6  A   A1167     191.318 151.131 -26.091  1.00 96.31      A16S
ATOM  24610  C5  A   A1167     190.672 153.446 -26.297  1.00 96.31      A16S
ATOM  24611  N7  A   A1167     191.012 153.793 -27.595  1.00 96.31      A16S
ATOM  24612  C8  A   A1167     190.634 155.044 -27.694  1.00 96.31      A16S
ATOM  24613  C2* A   A1167     190.209 157.740 -25.314  1.00103.19      A16S
ATOM  24614  O2* A   A1167     189.288 158.522 -24.584  1.00103.19      A16S
ATOM  24615  C3* A   A1167     191.108 158.590 -26.199  1.00103.19      A16S
ATOM  24616  O3* A   A1167     191.416 159.835 -25.593  1.00103.19      A16S
ATOM  24617  P   A   A1168     192.867 160.060 -24.940  1.00 88.29      A16S
ATOM  24618  O1P A   A1168     193.008 161.517 -24.655  1.00 80.95      A16S
ATOM  24619  O2P A   A1168     193.875 159.373 -25.801  1.00 80.95      A16S
ATOM  24620  O5* A   A1168     192.799 159.289 -23.549  1.00 88.29      A16S
ATOM  24621  C5* A   A1168     191.895 159.700 -22.513  1.00 88.29      A16S
ATOM  24622  C4* A   A1168     191.718 158.578 -21.531  1.00 88.29      A16S
ATOM  24623  O4* A   A1168     191.192 157.435 -22.243  1.00 88.29      A16S
ATOM  24624  C1* A   A1168     191.781 156.248 -21.746  1.00 88.29      A16S
ATOM  24625  N9  A   A1168     192.418 155.560 -22.865  1.00 80.95      A16S
ATOM  24626  C4  A   A1168     192.717 154.223 -22.933  1.00 80.95      A16S
ATOM  24627  N3  A   A1168     192.514 153.295 -21.985  1.00 80.95      A16S
ATOM  24628  C2  A   A1168     192.912 152.104 -22.408  1.00 80.95      A16S
ATOM  24629  N1  A   A1168     193.448 151.760 -23.580  1.00 80.95      A16S
ATOM  24630  C6  A   A1168     193.637 152.716 -24.509  1.00 80.95      A16S
ATOM  24631  N6  A   A1168     194.167 152.368 -25.684  1.00 80.95      A16S
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ATOM  24632  C5  A  A1168     193.260 154.022 -24.183  1.00 80.95      A16S
ATOM  24633  N7  A  A1168     193.322 155.214 -24.887  1.00 80.95      A16S
ATOM  24634  C8  A  A1168     192.817 156.093 -24.062  1.00 80.95      A16S
ATOM  24635  C2* A  A1168     192.733 156.623 -20.609  1.00 88.29      A16S
ATOM  24636  O2* A  A1168     192.114 156.413 -19.357  1.00 88.29      A16S
ATOM  24637  C3* A  A1168     193.012 158.089 -20.905  1.00 88.29      A16S
ATOM  24638  O3* A  A1168     193.280 158.811 -19.717  1.00 88.29      A16S
ATOM  24639  P   A  A1169     194.787 158.944 -19.194  1.00 71.36      A16S
ATOM  24640  O1P A  A1169     194.755 159.817 -17.986  1.00 77.27      A16S
ATOM  24641  O2P A  A1169     195.631 159.328 -20.356  1.00 77.27      A16S
ATOM  24642  O5* A  A1169     195.181 157.464 -18.746  1.00 71.36      A16S
ATOM  24643  C5* A  A1169     194.783 156.939 -17.462  1.00 71.36      A16S
ATOM  24644  C4* A  A1169     195.037 155.451 -17.403  1.00 71.36      A16S
ATOM  24645  O4* A  A1169     194.321 154.821 -18.493  1.00 71.36      A16S
ATOM  24646  C1* A  A1169     195.073 153.732 -18.995  1.00 71.36      A16S
ATOM  24647  N9  A  A1169     195.433 154.024 -20.382  1.00 77.27      A16S
ATOM  24648  C4  A  A1169     195.839 153.107 -21.316  1.00 77.27      A16S
ATOM  24649  N3  A  A1169     195.978 151.785 -21.147  1.00 77.27      A16S
ATOM  24650  C2  A  A1169     196.392 151.213 -22.265  1.00 77.27      A16S
ATOM  24651  N1  A  A1169     196.668 151.768 -23.448  1.00 77.27      A16S
ATOM  24652  C6  A  A1169     196.523 153.100 -23.587  1.00 77.27      A16S
ATOM  24653  N6  A  A1169     196.806 153.651 -24.773  1.00 77.27      A16S
ATOM  24654  C5  A  A1169     196.082 153.824 -22.470  1.00 77.27      A16S
ATOM  24655  N7  A  A1169     195.830 155.172 -22.272  1.00 77.27      A16S
ATOM  24656  C8  A  A1169     195.451 155.238 -21.020  1.00 77.27      A16S
ATOM  24657  C2* A  A1169     196.306 153.577 -18.111  1.00 71.36      A16S
ATOM  24658  O2* A  A1169     196.017 152.638 -17.092  1.00 71.36      A16S
ATOM  24659  C3* A  A1169     196.480 154.993 -17.580  1.00 71.36      A16S
ATOM  24660  O3* A  A1169     197.188 154.982 -16.346  1.00 71.36      A16S
ATOM  24661  P   G  A1171     198.656 155.642 -16.252  1.00 80.54      A16S
ATOM  24662  O1P G  A1171     199.236 155.178 -14.958  1.00 84.25      A16S
ATOM  24663  O2P G  A1171     198.537 157.100 -16.526  1.00 84.25      A16S
ATOM  24664  O5* G  A1171     199.485 154.993 -17.448  1.00 80.54      A16S
ATOM  24665  C5* G  A1171     199.850 153.606 -17.421  1.00 80.54      A16S
ATOM  24666  C4* G  A1171     200.031 153.091 -18.826  1.00 80.54      A16S
ATOM  24667  O4* G  A1171     199.076 153.780 -19.672  1.00 80.54      A16S
ATOM  24668  C1* G  A1171     199.611 153.926 -20.969  1.00 80.54      A16S
ATOM  24669  N9  G  A1171     199.639 155.341 -21.312  1.00 84.25      A16S
ATOM  24670  C4  G  A1171     199.836 155.845 -22.567  1.00 84.25      A16S
ATOM  24671  N3  G  A1171     200.052 155.117 -23.679  1.00 84.25      A16S
ATOM  24672  C2  G  A1171     200.204 155.877 -24.743  1.00 84.25      A16S
ATOM  24673  N2  G  A1171     200.442 155.309 -25.929  1.00 84.25      A16S
ATOM  24674  N1  G  A1171     200.141 157.250 -24.721  1.00 84.25      A16S
ATOM  24675  C6  G  A1171     199.918 158.022 -23.585  1.00 84.25      A16S
ATOM  24676  O6  G  A1171     199.877 159.255 -23.677  1.00 84.25      A16S
ATOM  24677  C5  G  A1171     199.762 157.213 -22.430  1.00 84.25      A16S
ATOM  24678  N7  G  A1171     199.532 157.563 -21.107  1.00 84.25      A16S
ATOM  24679  C8  G  A1171     199.470 156.420 -20.479  1.00 84.25      A16S
ATOM  24680  C2* G  A1171     200.999 153.294 -20.986  1.00 80.54      A16S
ATOM  24681  O2* G  A1171     200.879 151.978 -21.493  1.00 80.54      A16S
ATOM  24682  C3* G  A1171     201.373 153.335 -19.510  1.00 80.54      A16S
ATOM  24683  O3* G  A1171     202.341 152.331 -19.193  1.00 80.54      A16S
ATOM  24684  P   C  A1172     203.910 152.658 -19.354  1.00 85.57      A16S
ATOM  24685  O1P C  A1172     204.682 151.592 -18.660  1.00 69.01      A16S
ATOM  24686  O2P C  A1172     204.144 154.080 -18.994  1.00 69.01      A16S
ATOM  24687  O5* C  A1172     204.163 152.544 -20.916  1.00 85.57      A16S
ATOM  24688  C5* C  A1172     204.016 151.297 -21.594  1.00 85.57      A16S
ATOM  24689  C4* C  A1172     204.272 151.487 -23.063  1.00 85.57      A16S
ATOM  24690  O4* C  A1172     203.235 152.337 -23.620  1.00 85.57      A16S
ATOM  24691  C1* C  A1172     203.791 153.184 -24.615  1.00 85.57      A16S
ATOM  24692  N1  C  A1172     203.620 154.589 -24.204  1.00 69.01      A16S
ATOM  24693  C6  C  A1172     203.501 154.942 -22.885  1.00 69.01      A16S
ATOM  24694  C2  C  A1172     203.590 155.568 -25.200  1.00 69.01      A16S
ATOM  24695  O2  C  A1172     203.712 155.213 -26.387  1.00 69.01      A16S
ATOM  24696  N3  C  A1172     203.435 156.871 -24.848  1.00 69.01      A16S
ATOM  24697  C4  C  A1172     203.321 157.204 -23.559  1.00 69.01      A16S
ATOM  24698  N4  C  A1172     203.169 158.497 -23.257  1.00 69.01      A16S
ATOM  24699  C5  C  A1172     203.355 156.225 -22.521  1.00 69.01      A16S
ATOM  24700  C2* C  A1172     205.268 152.828 -24.757  1.00 85.57      A16S
ATOM  24701  O2* C  A1172     205.444 151.924 -25.832  1.00 85.57      A16S
ATOM  24702  C3* C  A1172     205.560 152.223 -23.390  1.00 85.57      A16S
ATOM  24703  O3* C  A1172     206.707 151.396 -23.378  1.00 85.57      A16S
ATOM  24704  P   G  A1173     208.135 152.056 -23.073  1.00102.96      A16S
ATOM  24705  O1P G  A1173     209.110 150.947 -22.985  1.00101.11      A16S
ATOM  24706  O2P G  A1173     207.998 153.005 -21.934  1.00101.11      A16S
ATOM  24707  O5* G  A1173     208.438 152.901 -24.388  1.00102.96      A16S
ATOM  24708  C5* G  A1173     208.668 152.242 -25.647  1.00102.96      A16S
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ATOM  24709  C4* G   A1173     208.874 153.255 -26.747  1.00102.96      A16S
ATOM  24710  O4* G   A1173     207.627 153.959 -27.003  1.00102.96      A16S
ATOM  24711  C1* G   A1173     207.902 155.303 -27.366  1.00102.96      A16S
ATOM  24712  N9  G   A1173     207.370 156.186 -26.331  1.00101.11      A16S
ATOM  24713  C4  G   A1173     207.230 157.550 -26.421  1.00101.11      A16S
ATOM  24714  N3  G   A1173     207.515 158.304 -27.502  1.00101.11      A16S
ATOM  24715  C2  G   A1173     207.313 159.587 -27.274  1.00101.11      A16S
ATOM  24716  N2  G   A1173     207.555 160.479 -28.244  1.00101.11      A16S
ATOM  24717  N1  G   A1173     206.859 160.092 -26.081  1.00101.11      A16S
ATOM  24718  C6  G   A1173     206.556 159.334 -24.955  1.00101.11      A16S
ATOM  24719  O6  G   A1173     206.153 159.890 -23.923  1.00101.11      A16S
ATOM  24720  C5  G   A1173     206.774 157.955 -25.185  1.00101.11      A16S
ATOM  24721  N7  G   A1173     206.605 156.866 -24.342  1.00101.11      A16S
ATOM  24722  C8  G   A1173     206.960 155.839 -25.065  1.00101.11      A16S
ATOM  24723  C2* G   A1173     209.423 155.454 -27.431  1.00102.96      A16S
ATOM  24724  O2* G   A1173     209.870 155.245 -28.756  1.00102.96      A16S
ATOM  24725  C3* G   A1173     209.876 154.366 -26.467  1.00102.96      A16S
ATOM  24726  O3* G   A1173     211.235 153.988 -26.652  1.00102.96      A16S
ATOM  24727  P   G   A1174     212.367 154.617 -25.692  1.00158.45      A16S
ATOM  24728  O1P G   A1174     213.612 153.857 -25.935  1.00104.07      A16S
ATOM  24729  O2P G   A1174     211.832 154.707 -24.314  1.00104.07      A16S
ATOM  24730  O5* G   A1174     212.560 156.104 -26.238  1.00158.45      A16S
ATOM  24731  C5* G   A1174     213.130 156.339 -27.541  1.00158.45      A16S
ATOM  24732  C4* G   A1174     213.144 157.817 -27.877  1.00158.45      A16S
ATOM  24733  O4* G   A1174     211.782 158.324 -27.932  1.00158.45      A16S
ATOM  24734  C1* G   A1174     211.769 159.697 -27.566  1.00158.45      A16S
ATOM  24735  N9  G   A1174     210.957 159.872 -26.365  1.00104.07      A16S
ATOM  24736  C4  G   A1174     210.467 161.066 -25.892  1.00104.07      A16S
ATOM  24737  N3  G   A1174     210.600 162.266 -26.490  1.00104.07      A16S
ATOM  24738  C2  G   A1174     210.055 163.232 -25.780  1.00104.07      A16S
ATOM  24739  N2  G   A1174     210.085 164.491 -26.237  1.00104.07      A16S
ATOM  24740  N1  G   A1174     209.436 163.038 -24.572  1.00104.07      A16S
ATOM  24741  C6  G   A1174     209.294 161.812 -23.935  1.00104.07      A16S
ATOM  24742  O6  G   A1174     208.735 161.750 -22.835  1.00104.07      A16S
ATOM  24743  C5  G   A1174     209.860 160.765 -24.694  1.00104.07      A16S
ATOM  24744  N7  G   A1174     209.928 159.403 -24.435  1.00104.07      A16S
ATOM  24745  C8  G   A1174     210.578 158.912 -25.457  1.00104.07      A16S
ATOM  24746  C2* G   A1174     213.211 160.109 -27.267  1.00158.45      A16S
ATOM  24747  O2* G   A1174     213.782 160.742 -28.399  1.00158.45      A16S
ATOM  24748  C3* G   A1174     213.851 158.768 -26.918  1.00158.45      A16S
ATOM  24749  O3* G   A1174     215.270 158.805 -27.063  1.00158.45      A16S
ATOM  24750  P   G   A1175     216.180 159.324 -25.834  1.00130.13      A16S
ATOM  24751  O1P G   A1175     217.601 159.318 -26.267  1.00120.74      A16S
ATOM  24752  O2P G   A1175     215.787 158.582 -24.608  1.00120.74      A16S
ATOM  24753  O5* G   A1175     215.741 160.843 -25.650  1.00130.13      A16S
ATOM  24754  C5* G   A1175     215.996 161.815 -26.681  1.00130.13      A16S
ATOM  24755  C4* G   A1175     215.606 163.192 -26.205  1.00130.13      A16S
ATOM  24756  O4* G   A1175     214.170 163.248 -26.005  1.00130.13      A16S
ATOM  24757  C1* G   A1175     213.875 164.055 -24.876  1.00130.13      A16S
ATOM  24758  N9  G   A1175     213.194 163.232 -23.875  1.00120.74      A16S
ATOM  24759  C4  G   A1175     212.505 163.696 -22.779  1.00120.74      A16S
ATOM  24760  N3  G   A1175     212.339 164.990 -22.440  1.00120.74      A16S
ATOM  24761  C2  G   A1175     211.634 165.122 -21.335  1.00120.74      A16S
ATOM  24762  N2  G   A1175     211.384 166.342 -20.858  1.00120.74      A16S
ATOM  24763  N1  G   A1175     211.124 164.067 -20.617  1.00120.74      A16S
ATOM  24764  C6  G   A1175     211.279 162.725 -20.950  1.00120.74      A16S
ATOM  24765  O6  G   A1175     210.771 161.851 -20.241  1.00120.74      A16S
ATOM  24766  C5  G   A1175     212.042 162.568 -22.132  1.00120.74      A16S
ATOM  24767  N7  G   A1175     212.433 161.418 -22.803  1.00120.74      A16S
ATOM  24768  C8  G   A1175     213.112 161.858 -23.828  1.00120.74      A16S
ATOM  24769  C2* G   A1175     215.193 164.629 -24.356  1.00130.13      A16S
ATOM  24770  O2* G   A1175     215.392 165.922 -24.896  1.00130.13      A16S
ATOM  24771  C3* G   A1175     216.195 163.599 -24.864  1.00130.13      A16S
ATOM  24772  O3* G   A1175     217.512 164.113 -24.994  1.00130.13      A16S
ATOM  24773  P   A   A1176     218.500 164.100 -23.726  1.00131.46      A16S
ATOM  24774  O1P A   A1176     219.863 164.363 -24.253  1.00108.91      A16S
ATOM  24775  O2P A   A1176     218.254 162.880 -22.903  1.00108.91      A16S
ATOM  24776  O5* A   A1176     218.036 165.371 -22.886  1.00131.46      A16S
ATOM  24777  C5* A   A1176     218.054 166.686 -23.473  1.00131.46      A16S
ATOM  24778  C4* A   A1176     217.453 167.695 -22.523  1.00131.46      A16S
ATOM  24779  O4* A   A1176     216.037 167.428 -22.350  1.00131.46      A16S
ATOM  24780  C1* A   A1176     215.649 167.749 -21.024  1.00131.46      A16S
ATOM  24781  N9  A   A1176     215.056 166.558 -20.402  1.00108.91      A16S
ATOM  24782  C4  A   A1176     214.193 166.545 -19.330  1.00108.91      A16S
ATOM  24783  N3  A   A1176     213.723 167.603 -18.645  1.00108.91      A16S
ATOM  24784  C2  A   A1176     212.910 167.207 -17.670  1.00108.91      A16S
ATOM  24785  N1  A   A1176     212.539 165.970 -17.327  1.00108.91      A16S
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ATOM  24786  C6  A  A1176     213.025 164.930 -18.035  1.00108.91      A16S
ATOM  24787  N6  A  A1176     212.650 163.697 -17.695  1.00108.91      A16S
ATOM  24788  C5  A  A1176     213.902 165.213 -19.094  1.00108.91      A16S
ATOM  24789  N7  A  A1176     214.566 164.397 -19.998  1.00108.91      A16S
ATOM  24790  C8  A  A1176     215.235 165.239 -20.750  1.00108.91      A16S
ATOM  24791  C2* A  A1176     216.882 168.286 -20.290  1.00131.46      A16S
ATOM  24792  O2* A  A1176     216.868 169.700 -20.309  1.00131.46      A16S
ATOM  24793  C3* A  A1176     218.022 167.695 -21.114  1.00131.46      A16S
ATOM  24794  O3* A  A1176     219.217 168.464 -21.031  1.00131.46      A16S
ATOM  24795  P   G  A1177     220.263 168.183 -19.841  1.00 99.53      A16S
ATOM  24796  O1P G  A1177     221.423 169.088 -20.031  1.00114.71      A16S
ATOM  24797  O2P G  A1177     220.489 166.717 -19.730  1.00114.71      A16S
ATOM  24798  O5* G  A1177     219.490 168.664 -18.534  1.00 99.53      A16S
ATOM  24799  C5* G  A1177     219.073 170.036 -18.374  1.00 99.53      A16S
ATOM  24800  C4* G  A1177     218.126 170.150 -17.207  1.00 99.53      A16S
ATOM  24801  O4* G  A1177     216.896 169.448 -17.516  1.00 99.53      A16S
ATOM  24802  C1* G  A1177     216.414 168.790 -16.356  1.00 99.53      A16S
ATOM  24803  N9  G  A1177     216.404 167.352 -16.612  1.00114.71      A16S
ATOM  24804  C4  G  A1177     215.629 166.416 -15.970  1.00114.71      A16S
ATOM  24805  N3  G  A1177     214.705 166.669 -15.021  1.00114.71      A16S
ATOM  24806  C2  G  A1177     214.148 165.564 -14.570  1.00114.71      A16S
ATOM  24807  N2  G  A1177     213.203 165.634 -13.622  1.00114.71      A16S
ATOM  24808  N1  G  A1177     214.474 164.307 -15.014  1.00114.71      A16S
ATOM  24809  C6  G  A1177     215.423 164.024 -15.990  1.00114.71      A16S
ATOM  24810  O6  G  A1177     215.651 162.854 -16.308  1.00114.71      A16S
ATOM  24811  C5  G  A1177     216.021 165.201 -16.488  1.00114.71      A16S
ATOM  24812  N7  G  A1177     216.995 165.369 -17.460  1.00114.71      A16S
ATOM  24813  C8  G  A1177     217.187 166.658 -17.505  1.00114.71      A16S
ATOM  24814  C2* G  A1177     217.350 169.139 -15.194  1.00 99.53      A16S
ATOM  24815  O2* G  A1177     216.825 170.209 -14.434  1.00 99.53      A16S
ATOM  24816  C3* G  A1177     218.630 169.493 -15.934  1.00 99.53      A16S
ATOM  24817  O3* G  A1177     219.481 170.354 -15.204  1.00 99.53      A16S
ATOM  24818  P   G  A1178     220.988 169.895 -14.903  1.00 91.31      A16S
ATOM  24819  O1P G  A1178     221.699 171.036 -14.274  1.00138.07      A16S
ATOM  24820  O2P G  A1178     221.529 169.291 -16.153  1.00138.07      A16S
ATOM  24821  O5* G  A1178     220.821 168.752 -13.804  1.00 91.31      A16S
ATOM  24822  C5* G  A1178     220.219 169.041 -12.533  1.00 91.31      A16S
ATOM  24823  C4* G  A1178     219.746 167.770 -11.870  1.00 91.31      A16S
ATOM  24824  O4* G  A1178     218.761 167.122 -12.712  1.00 91.31      A16S
ATOM  24825  C1* G  A1178     218.844 165.717 -12.543  1.00 91.31      A16S
ATOM  24826  N9  G  A1178     219.073 165.103 -13.849  1.00138.07      A16S
ATOM  24827  C4  G  A1178     218.730 163.823 -14.221  1.00138.07      A16S
ATOM  24828  N3  G  A1178     218.107 162.909 -13.446  1.00138.07      A16S
ATOM  24829  C2  G  A1178     217.927 161.763 -14.080  1.00138.07      A16S
ATOM  24830  N2  G  A1178     217.332 160.739 -13.453  1.00138.07      A16S
ATOM  24831  N1  G  A1178     218.320 161.534 -15.375  1.00138.07      A16S
ATOM  24832  C6  G  A1178     218.963 162.458 -16.193  1.00138.07      A16S
ATOM  24833  O6  G  A1178     219.282 162.145 -17.348  1.00138.07      A16S
ATOM  24834  C5  G  A1178     219.165 163.693 -15.523  1.00138.07      A16S
ATOM  24835  N7  G  A1178     219.759 164.867 -15.964  1.00138.07      A16S
ATOM  24836  C8  G  A1178     219.679 165.674 -14.941  1.00138.07      A16S
ATOM  24837  C2* G  A1178     219.962 165.427 -11.536  1.00 91.31      A16S
ATOM  24838  O2* G  A1178     219.418 165.221 -10.247  1.00 91.31      A16S
ATOM  24839  C3* G  A1178     220.795 166.701 -11.609  1.00 91.31      A16S
ATOM  24840  O3* G  A1178     221.471 166.928 -10.377  1.00 91.31      A16S
ATOM  24841  P   A  A1179     223.020 166.523 -10.232  1.00 90.03      A16S
ATOM  24842  O1P A  A1179     223.487 166.925  -8.876  1.00103.38      A16S
ATOM  24843  O2P A  A1179     223.735 167.023 -11.437  1.00103.38      A16S
ATOM  24844  O5* A  A1179     223.019 164.930 -10.261  1.00 90.03      A16S
ATOM  24845  C5* A  A1179     224.260 164.202 -10.223  1.00 90.03      A16S
ATOM  24846  C4* A  A1179     224.058 162.828  -9.630  1.00 90.03      A16S
ATOM  24847  O4* A  A1179     223.678 162.942  -8.234  1.00 90.03      A16S
ATOM  24848  C1* A  A1179     222.800 161.885  -7.895  1.00 90.03      A16S
ATOM  24849  N9  A  A1179     221.512 162.453  -7.499  1.00103.38      A16S
ATOM  24850  C4  A  A1179     220.564 161.829  -6.725  1.00103.38      A16S
ATOM  24851  N3  A  A1179     220.647 160.613  -6.156  1.00103.38      A16S
ATOM  24852  C2  A  A1179     219.533 160.329  -5.489  1.00103.38      A16S
ATOM  24853  N1  A  A1179     218.426 161.065  -5.338  1.00103.38      A16S
ATOM  24854  C6  A  A1179     218.373 162.283  -5.922  1.00103.38      A16S
ATOM  24855  N6  A  A1179     217.265 163.016  -5.773  1.00103.38      A16S
ATOM  24856  C5  A  A1179     219.498 162.704  -6.656  1.00103.38      A16S
ATOM  24857  N7  A  A1179     219.774 163.869  -7.358  1.00103.38      A16S
ATOM  24858  C8  A  A1179     220.979 163.672  -7.833  1.00103.38      A16S
ATOM  24859  C2* A  A1179     222.640 161.000  -9.129  1.00 90.03      A16S
ATOM  24860  O2* A  A1179     223.557 159.928  -9.057  1.00 90.03      A16S
ATOM  24861  C3* A  A1179     222.960 161.979 -10.248  1.00 90.03      A16S
ATOM  24862  O3* A  A1179     223.364 161.324 -11.440  1.00 90.03      A16S
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ATOM  24863  P    A    A1180     222.293 161.117 -12.619  1.00 72.53      A16S
ATOM  24864  O1P  A    A1180     222.935 160.354 -13.714  1.00101.28      A16S
ATOM  24865  O2P  A    A1180     221.664 162.429 -12.919  1.00101.28      A16S
ATOM  24866  O5*  A    A1180     221.199 160.168 -11.959  1.00 72.53      A16S
ATOM  24867  C5*  A    A1180     221.516 158.809 -11.604  1.00 72.53      A16S
ATOM  24868  C4*  A    A1180     220.306 158.133 -11.008  1.00 72.53      A16S
ATOM  24869  O4*  A    A1180     219.955 158.823  -9.786  1.00 72.53      A16S
ATOM  24870  C1*  A    A1180     218.546 158.903  -9.670  1.00 72.53      A16S
ATOM  24871  N9   A    A1180     218.178 160.321  -9.659  1.00101.28      A16S
ATOM  24872  C4   A    A1180     217.164 160.906  -8.940  1.00101.28      A16S
ATOM  24873  N3   A    A1180     216.303 160.303  -8.106  1.00101.28      A16S
ATOM  24874  C2   A    A1180     215.455 161.188  -7.592  1.00101.28      A16S
ATOM  24875  N1   A    A1180     215.374 162.505  -7.803  1.00101.28      A16S
ATOM  24876  C6   A    A1180     216.253 163.077  -8.649  1.00101.28      A16S
ATOM  24877  N6   A    A1180     216.166 164.390  -8.870  1.00101.28      A16S
ATOM  24878  C5   A    A1180     217.206 162.251  -9.255  1.00101.28      A16S
ATOM  24879  N7   A    A1180     218.227 162.514 -10.153  1.00101.28      A16S
ATOM  24880  C8   A    A1180     218.772 161.342 -10.361  1.00101.28      A16S
ATOM  24881  C2*  A    A1180     217.931 158.115 -10.833  1.00 72.53      A16S
ATOM  24882  O2*  A    A1180     217.643 156.796 -10.412  1.00 72.53      A16S
ATOM  24883  C3*  A    A1180     219.047 158.164 -11.868  1.00 72.53      A16S
ATOM  24884  O3*  A    A1180     218.998 157.039 -12.751  1.00 72.53      A16S
ATOM  24885  P    G    A1181     218.441 157.214 -14.251  1.00 86.04      A16S
ATOM  24886  O1P  G    A1181     218.609 155.902 -14.923  1.00 89.32      A16S
ATOM  24887  O2P  G    A1181     219.042 158.427 -14.857  1.00 89.32      A16S
ATOM  24888  O5*  G    A1181     216.882 157.465 -14.049  1.00 86.04      A16S
ATOM  24889  C5*  G    A1181     216.114 156.597 -13.199  1.00 86.04      A16S
ATOM  24890  C4*  G    A1181     214.700 156.481 -13.703  1.00 86.04      A16S
ATOM  24891  O4*  G    A1181     213.955 157.684 -13.393  1.00 86.04      A16S
ATOM  24892  C1*  G    A1181     213.278 158.108 -14.553  1.00 86.04      A16S
ATOM  24893  N9   G    A1181     212.990 159.531 -14.443  1.00 89.32      A16S
ATOM  24894  C4   G    A1181     212.167 160.088 -13.506  1.00 89.32      A16S
ATOM  24895  N3   G    A1181     211.502 159.414 -12.547  1.00 89.32      A16S
ATOM  24896  C2   G    A1181     210.790 160.218 -11.788  1.00 89.32      A16S
ATOM  24897  N2   G    A1181     210.058 159.712 -10.789  1.00 89.32      A16S
ATOM  24898  N1   G    A1181     210.741 161.578 -11.954  1.00 89.32      A16S
ATOM  24899  C6   G    A1181     211.425 162.291 -12.934  1.00 89.32      A16S
ATOM  24900  O6   G    A1181     211.320 163.519 -12.989  1.00 89.32      A16S
ATOM  24901  C5   G    A1181     212.183 161.438 -13.759  1.00 89.32      A16S
ATOM  24902  N7   G    A1181     212.997 161.726 -14.844  1.00 89.32      A16S
ATOM  24903  C8   G    A1181     213.456 160.565 -15.218  1.00 89.32      A16S
ATOM  24904  C2*  G    A1181     214.126 157.614 -15.721  1.00 86.04      A16S
ATOM  24905  O2*  G    A1181     213.343 157.571 -16.899  1.00 86.04      A16S
ATOM  24906  C3*  G    A1181     214.527 156.235 -15.202  1.00 86.04      A16S
ATOM  24907  O3*  G    A1181     213.397 155.384 -15.365  1.00 86.04      A16S
ATOM  24908  P    G    A1182     213.582 153.889 -15.895  1.00110.55      A16S
ATOM  24909  O1P  G    A1182     214.437 153.174 -14.909  1.00 94.53      A16S
ATOM  24910  O2P  G    A1182     214.004 153.965 -17.312  1.00 94.53      A16S
ATOM  24911  O5*  G    A1182     212.096 153.311 -15.840  1.00110.55      A16S
ATOM  24912  C5*  G    A1182     211.575 152.701 -14.638  1.00110.55      A16S
ATOM  24913  C4*  G    A1182     210.191 153.229 -14.326  1.00110.55      A16S
ATOM  24914  O4*  G    A1182     210.296 154.666 -14.161  1.00110.55      A16S
ATOM  24915  C1*  G    A1182     209.143 155.298 -14.683  1.00110.55      A16S
ATOM  24916  N9   G    A1182     209.562 156.222 -15.733  1.00 94.53      A16S
ATOM  24917  C4   G    A1182     209.501 157.593 -15.682  1.00 94.53      A16S
ATOM  24918  N3   G    A1182     209.036 158.329 -14.649  1.00 94.53      A16S
ATOM  24919  C2   G    A1182     209.114 159.627 -14.894  1.00 94.53      A16S
ATOM  24920  N2   G    A1182     208.697 160.507 -13.975  1.00 94.53      A16S
ATOM  24921  N1   G    A1182     209.610 160.158 -16.059  1.00 94.53      A16S
ATOM  24922  C6   G    A1182     210.093 159.418 -17.135  1.00 94.53      A16S
ATOM  24923  O6   G    A1182     210.526 159.998 -18.142  1.00 94.53      A16S
ATOM  24924  C5   G    A1182     210.012 158.026 -16.887  1.00 94.53      A16S
ATOM  24925  N7   G    A1182     210.378 156.951 -17.683  1.00 94.53      A16S
ATOM  24926  C8   G    A1182     210.095 155.903 -16.959  1.00 94.53      A16S
ATOM  24927  C2*  G    A1182     208.168 154.214 -15.150  1.00110.55      A16S
ATOM  24928  O2*  G    A1182     207.190 154.043 -14.149  1.00110.55      A16S
ATOM  24929  C3*  G    A1182     209.108 153.033 -15.385  1.00110.55      A16S
ATOM  24930  O3*  G    A1182     208.568 151.684 -15.444  1.00110.55      A16S
ATOM  24931  P    A    A1183     207.380 151.187 -14.455  1.00108.94      A16S
ATOM  24932  O1P  A    A1183     207.106 149.768 -14.820  1.00 82.79      A16S
ATOM  24933  O2P  A    A1183     206.244 152.147 -14.426  1.00 82.79      A16S
ATOM  24934  O5*  A    A1183     208.092 151.106 -13.033  1.00108.94      A16S
ATOM  24935  C5*  A    A1183     207.911 152.127 -12.059  1.00108.94      A16S
ATOM  24936  C4*  A    A1183     208.413 151.656 -10.723  1.00108.94      A16S
ATOM  24937  O4*  A    A1183     207.742 150.417 -10.390  1.00108.94      A16S
ATOM  24938  C1*  A    A1183     208.558 149.667  -9.518  1.00108.94      A16S
ATOM  24939  N9   A    A1183     208.485 148.244  -9.867  1.00 82.79      A16S
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ATOM  24940  C4  A  A1183     208.244 147.223  -8.974  1.00 82.79      A16S
ATOM  24941  N3  A  A1183     208.038 147.329  -7.648  1.00 82.79      A16S
ATOM  24942  C2  A  A1183     207.833 146.131  -7.107  1.00 82.79      A16S
ATOM  24943  N1  A  A1183     207.814 144.930  -7.692  1.00 82.79      A16S
ATOM  24944  C6  A  A1183     208.028 144.856  -9.023  1.00 82.79      A16S
ATOM  24945  N6  A  A1183     208.014 143.657  -9.605  1.00 82.79      A16S
ATOM  24946  C5  A  A1183     208.254 146.058  -9.718  1.00 82.79      A16S
ATOM  24947  N7  A  A1183     208.495 146.332 -11.057  1.00 82.79      A16S
ATOM  24948  C8  A  A1183     208.624 147.638 -11.094  1.00 82.79      A16S
ATOM  24949  C2* A  A1183     209.942 150.323  -9.449  1.00108.94      A16S
ATOM  24950  O2* A  A1183     210.046 150.916  -8.170  1.00108.94      A16S
ATOM  24951  C3* A  A1183     209.896 151.325 -10.616  1.00108.94      A16S
ATOM  24952  O3* A  A1183     210.648 152.563 -10.482  1.00108.94      A16S
ATOM  24953  P   G  A1184     211.731 152.768  -9.293  1.00 96.03      A16S
ATOM  24954  O1P G  A1184     212.352 151.469  -8.926  1.00 79.84      A16S
ATOM  24955  O2P G  A1184     211.086 153.593  -8.234  1.00 79.84      A16S
ATOM  24956  O5* G  A1184     212.894 153.647  -9.941  1.00 96.03      A16S
ATOM  24957  C5* G  A1184     213.568 153.238 -11.151  1.00 96.03      A16S
ATOM  24958  C4* G  A1184     215.038 152.957 -10.886  1.00 96.03      A16S
ATOM  24959  O4* G  A1184     215.619 154.034 -10.102  1.00 96.03      A16S
ATOM  24960  C1* G  A1184     216.659 153.526  -9.280  1.00 96.03      A16S
ATOM  24961  N9  G  A1184     216.368 153.854  -7.884  1.00 79.84      A16S
ATOM  24962  C4  G  A1184     217.108 153.473  -6.791  1.00 79.84      A16S
ATOM  24963  N3  G  A1184     218.259 152.774  -6.822  1.00 79.84      A16S
ATOM  24964  C2  G  A1184     218.722 152.533  -5.609  1.00 79.84      A16S
ATOM  24965  N2  G  A1184     219.869 151.853  -5.457  1.00 79.84      A16S
ATOM  24966  N1  G  A1184     218.098 152.937  -4.457  1.00 79.84      A16S
ATOM  24967  C6  G  A1184     216.910 153.652  -4.403  1.00 79.84      A16S
ATOM  24968  O6  G  A1184     216.422 153.951  -3.307  1.00 79.84      A16S
ATOM  24969  C5  G  A1184     216.412 153.934  -5.697  1.00 79.84      A16S
ATOM  24970  N7  G  A1184     215.280 154.630  -6.092  1.00 79.84      A16S
ATOM  24971  C8  G  A1184     215.299 154.564  -7.396  1.00 79.84      A16S
ATOM  24972  C2* G  A1184     216.760 152.018  -9.529  1.00 96.03      A16S
ATOM  24973  O2* G  A1184     217.821 151.762 -10.430  1.00 96.03      A16S
ATOM  24974  C3* G  A1184     215.381 151.692 -10.107  1.00 96.03      A16S
ATOM  24975  O3* G  A1184     215.440 150.568 -10.992  1.00 96.03      A16S
ATOM  24976  P   G  A1185     215.030 149.093 -10.473  1.00 70.85      A16S
ATOM  24977  O1P G  A1185     215.046 148.237 -11.689  1.00 62.30      A16S
ATOM  24978  O2P G  A1185     213.788 149.178  -9.654  1.00 62.30      A16S
ATOM  24979  O5* G  A1185     216.240 148.652  -9.525  1.00 70.85      A16S
ATOM  24980  C5* G  A1185     217.516 148.256 -10.082  1.00 70.85      A16S
ATOM  24981  C4* G  A1185     218.478 147.869  -8.983  1.00 70.85      A16S
ATOM  24982  O4* G  A1185     218.838 149.049  -8.222  1.00 70.85      A16S
ATOM  24983  C1* G  A1185     218.988 148.710  -6.852  1.00 70.85      A16S
ATOM  24984  N9  G  A1185     217.952 149.403  -6.096  1.00 62.30      A16S
ATOM  24985  C4  G  A1185     217.872 149.498  -4.729  1.00 62.30      A16S
ATOM  24986  N3  G  A1185     218.788 149.046  -3.854  1.00 62.30      A16S
ATOM  24987  C2  G  A1185     218.402 149.219  -2.608  1.00 62.30      A16S
ATOM  24988  N2  G  A1185     219.188 148.819  -1.619  1.00 62.30      A16S
ATOM  24989  N1  G  A1185     217.212 149.790  -2.244  1.00 62.30      A16S
ATOM  24990  C6  G  A1185     216.243 150.257  -3.132  1.00 62.30      A16S
ATOM  24991  O6  G  A1185     215.164 150.721  -2.701  1.00 62.30      A16S
ATOM  24992  C5  G  A1185     216.657 150.095  -4.476  1.00 62.30      A16S
ATOM  24993  N7  G  A1185     216.017 150.436  -5.661  1.00 62.30      A16S
ATOM  24994  C8  G  A1185     216.826 150.019  -6.595  1.00 62.30      A16S
ATOM  24995  C2* G  A1185     218.774 147.199  -6.714  1.00 70.85      A16S
ATOM  24996  O2* G  A1185     219.995 146.497  -6.633  1.00 70.85      A16S
ATOM  24997  C3* G  A1185     217.940 146.890  -7.952  1.00 70.85      A16S
ATOM  24998  O3* G  A1185     218.059 145.533  -8.353  1.00 70.85      A16S
ATOM  24999  P   G  A1186     217.089 144.426  -7.705  1.00 53.43      A16S
ATOM  25000  O1P G  A1186     217.333 143.134  -8.397  1.00 68.84      A16S
ATOM  25001  O2P G  A1186     215.720 145.006  -7.687  1.00 68.84      A16S
ATOM  25002  O5* G  A1186     217.603 144.272  -6.206  1.00 53.43      A16S
ATOM  25003  C5* G  A1186     218.844 143.635  -5.944  1.00 53.43      A16S
ATOM  25004  C4* G  A1186     219.084 143.533  -4.468  1.00 53.43      A16S
ATOM  25005  O4* G  A1186     219.203 144.862  -3.898  1.00 53.43      A16S
ATOM  25006  C1* G  A1186     218.761 144.835  -2.544  1.00 53.43      A16S
ATOM  25007  N9  G  A1186     217.654 145.773  -2.379  1.00 68.84      A16S
ATOM  25008  C4  G  A1186     217.107 146.181  -1.184  1.00 68.84      A16S
ATOM  25009  N3  G  A1186     217.525 145.815   0.043  1.00 68.84      A16S
ATOM  25010  C2  G  A1186     216.787 146.355   0.995  1.00 68.84      A16S
ATOM  25011  N2  G  A1186     217.067 146.101   2.279  1.00 68.84      A16S
ATOM  25012  N1  G  A1186     215.720 147.182   0.764  1.00 68.84      A16S
ATOM  25013  C6  G  A1186     215.265 147.565  -0.489  1.00 68.84      A16S
ATOM  25014  O6  G  A1186     214.271 148.298  -0.586  1.00 68.84      A16S
ATOM  25015  C5  G  A1186     216.059 147.005  -1.523  1.00 68.84      A16S
ATOM  25016  N7  G  A1186     215.965 147.138  -2.901  1.00 68.84      A16S
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ATOM  25017  C8  G   A1186     216.932 146.395  -3.367  1.00 68.84      A16S
ATOM  25018  C2* G   A1186     218.306 143.410  -2.236  1.00 53.43      A16S
ATOM  25019  O2* G   A1186     219.346 142.707  -1.587  1.00 53.43      A16S
ATOM  25020  C3* G   A1186     218.002 142.878  -3.630  1.00 53.43      A16S
ATOM  25021  O3* G   A1186     218.029 141.464  -3.665  1.00 53.43      A16S
ATOM  25022  P   G   A1187     216.794 140.644  -3.040  1.00 53.81      A16S
ATOM  25023  O1P G   A1187     216.987 139.202  -3.345  1.00 58.98      A16S
ATOM  25024  O2P G   A1187     215.539 141.337  -3.448  1.00 58.98      A16S
ATOM  25025  O5* G   A1187     216.985 140.826  -1.473  1.00 53.81      A16S
ATOM  25026  C5* G   A1187     215.940 140.514  -0.554  1.00 53.81      A16S
ATOM  25027  C4* G   A1187     216.256 141.109   0.797  1.00 53.81      A16S
ATOM  25028  O4* G   A1187     216.375 142.547   0.681  1.00 53.81      A16S
ATOM  25029  C1* G   A1187     215.764 143.174   1.790  1.00 53.81      A16S
ATOM  25030  N9  G   A1187     214.627 143.956   1.293  1.00 58.98      A16S
ATOM  25031  C4  G   A1187     213.728 144.678   2.042  1.00 58.98      A16S
ATOM  25032  N3  G   A1187     213.704 144.759   3.385  1.00 58.98      A16S
ATOM  25033  C2  G   A1187     212.756 145.572   3.810  1.00 58.98      A16S
ATOM  25034  N2  G   A1187     212.619 145.790   5.125  1.00 58.98      A16S
ATOM  25035  N1  G   A1187     211.882 146.239   2.980  1.00 58.98      A16S
ATOM  25036  C6  G   A1187     211.885 146.159   1.593  1.00 58.98      A16S
ATOM  25037  O6  G   A1187     211.060 146.798   0.934  1.00 58.98      A16S
ATOM  25038  C5  G   A1187     212.904 145.302   1.126  1.00 58.98      A16S
ATOM  25039  N7  G   A1187     213.251 144.953  -0.167  1.00 58.98      A16S
ATOM  25040  C8  G   A1187     214.268 144.148  -0.021  1.00 58.98      A16S
ATOM  25041  C2* G   A1187     215.383 142.073   2.773  1.00 53.81      A16S
ATOM  25042  O2* G   A1187     216.461 141.837   3.652  1.00 53.81      A16S
ATOM  25043  C3* G   A1187     215.175 140.904   1.833  1.00 53.81      A16S
ATOM  25044  O3* G   A1187     215.294 139.644   2.460  1.00 53.81      A16S
ATOM  25045  P   A   A1188     213.996 138.712   2.558  1.00 74.07      A16S
ATOM  25046  O1P A   A1188     214.395 137.385   3.112  1.00 63.24      A16S
ATOM  25047  O2P A   A1188     213.302 138.794   1.238  1.00 63.24      A16S
ATOM  25048  O5* A   A1188     213.092 139.469   3.625  1.00 74.07      A16S
ATOM  25049  C5* A   A1188     213.632 139.848   4.904  1.00 74.07      A16S
ATOM  25050  C4* A   A1188     212.666 140.747   5.621  1.00 74.07      A16S
ATOM  25051  O4* A   A1188     212.580 142.010   4.920  1.00 74.07      A16S
ATOM  25052  C1* A   A1188     211.258 142.499   4.991  1.00 74.07      A16S
ATOM  25053  N9  A   A1188     210.782 142.748   3.632  1.00 63.24      A16S
ATOM  25054  C4  A   A1188     209.870 143.704   3.254  1.00 63.24      A16S
ATOM  25055  N3  A   A1188     209.249 144.594   4.043  1.00 63.24      A16S
ATOM  25056  C2  A   A1188     208.444 145.378   3.328  1.00 63.24      A16S
ATOM  25057  N1  A   A1188     208.205 145.376   2.013  1.00 63.24      A16S
ATOM  25058  C6  A   A1188     208.845 144.466   1.244  1.00 63.24      A16S
ATOM  25059  N6  A   A1188     208.606 144.463  -0.077  1.00 63.24      A16S
ATOM  25060  C5  A   A1188     209.731 143.573   1.887  1.00 63.24      A16S
ATOM  25061  N7  A   A1188     210.539 142.553   1.410  1.00 63.24      A16S
ATOM  25062  C8  A   A1188     211.140 142.098   2.480  1.00 63.24      A16S
ATOM  25063  C2* A   A1188     210.417 141.493   5.782  1.00 74.07      A16S
ATOM  25064  O2* A   A1188     210.321 141.936   7.115  1.00 74.07      A16S
ATOM  25065  C3* A   A1188     211.244 140.219   5.660  1.00 74.07      A16S
ATOM  25066  O3* A   A1188     211.060 139.323   6.757  1.00 74.07      A16S
ATOM  25067  P   C   A1189     210.309 137.920   6.519  1.00 44.45      A16S
ATOM  25068  O1P C   A1189     209.986 137.340   7.841  1.00 53.50      A16S
ATOM  25069  O2P C   A1189     211.077 137.116   5.541  1.00 53.50      A16S
ATOM  25070  O5* C   A1189     208.947 138.361   5.828  1.00 44.45      A16S
ATOM  25071  C5* C   A1189     208.009 139.139   6.561  1.00 44.45      A16S
ATOM  25072  C4* C   A1189     206.986 139.759   5.649  1.00 44.45      A16S
ATOM  25073  O4* C   A1189     207.608 140.625   4.668  1.00 44.45      A16S
ATOM  25074  C1* C   A1189     206.731 140.776   3.568  1.00 44.45      A16S
ATOM  25075  N1  C   A1189     207.446 140.443   2.334  1.00 53.50      A16S
ATOM  25076  C6  C   A1189     208.457 139.522   2.335  1.00 53.50      A16S
ATOM  25077  C2  C   A1189     207.062 141.078   1.137  1.00 53.50      A16S
ATOM  25078  O2  C   A1189     206.113 141.893   1.155  1.00 53.50      A16S
ATOM  25079  N3  C   A1189     207.717 140.773  -0.010  1.00 53.50      A16S
ATOM  25080  C4  C   A1189     208.692 139.857   0.002  1.00 53.50      A16S
ATOM  25081  N4  C   A1189     209.289 139.567  -1.153  1.00 53.50      A16S
ATOM  25082  C5  C   A1189     209.094 139.194   1.202  1.00 53.50      A16S
ATOM  25083  C2* C   A1189     205.533 139.852   3.804  1.00 44.45      A16S
ATOM  25084  O2* C   A1189     204.480 140.636   4.350  1.00 44.45      A16S
ATOM  25085  C3* C   A1189     206.096 138.858   4.817  1.00 44.45      A16S
ATOM  25086  O3* C   A1189     205.067 138.325   5.621  1.00 44.45      A16S
ATOM  25087  P   G   A1190     204.943 136.739   5.808  1.00 72.64      A16S
ATOM  25088  O1P G   A1190     203.867 136.553   6.800  1.00 93.63      A16S
ATOM  25089  O2P G   A1190     206.266 136.118   6.044  1.00 93.63      A16S
ATOM  25090  O5* G   A1190     204.407 136.265   4.394  1.00 72.64      A16S
ATOM  25091  C5* G   A1190     203.224 136.846   3.837  1.00 72.64      A16S
ATOM  25092  C4* G   A1190     202.824 136.110   2.586  1.00 72.64      A16S
ATOM  25093  O4* G   A1190     203.935 136.160   1.662  1.00 72.64      A16S
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ATOM  25094  C1* G   A1190     203.996 134.957   0.928  1.00 72.64      A16S
ATOM  25095  N9  G   A1190     205.264 134.316   1.240  1.00 93.63      A16S
ATOM  25096  C4  G   A1190     206.158 133.801   0.341  1.00 93.63      A16S
ATOM  25097  N3  G   A1190     205.998 133.757  -0.997  1.00 93.63      A16S
ATOM  25098  C2  G   A1190     207.038 133.214  -1.601  1.00 93.63      A16S
ATOM  25099  N2  G   A1190     207.041 133.088  -2.937  1.00 93.63      A16S
ATOM  25100  N1  G   A1190     208.152 132.755  -0.943  1.00 93.63      A16S
ATOM  25101  C6  G   A1190     208.341 132.792   0.435  1.00 93.63      A16S
ATOM  25102  O6  G   A1190     209.397 132.360   0.930  1.00 93.63      A16S
ATOM  25103  C5  G   A1190     207.224 133.363   1.095  1.00 93.63      A16S
ATOM  25104  N7  G   A1190     206.989 133.572   2.446  1.00 93.63      A16S
ATOM  25105  C8  G   A1190     205.813 134.132   2.484  1.00 93.63      A16S
ATOM  25106  C2* G   A1190     202.780 134.117   1.313  1.00 72.64      A16S
ATOM  25107  O2* G   A1190     201.718 134.440   0.433  1.00 72.64      A16S
ATOM  25108  C3* G   A1190     202.488 134.626   2.713  1.00 72.64      A16S
ATOM  25109  O3* G   A1190     201.125 134.466   3.153  1.00 72.64      A16S
ATOM  25110  P   A   A1191     200.196 133.238   2.637  1.00 49.25      A16S
ATOM  25111  O1P A   A1191     200.951 132.244   1.829  1.00 72.68      A16S
ATOM  25112  O2P A   A1191     199.434 132.756   3.821  1.00 72.68      A16S
ATOM  25113  O5* A   A1191     199.158 134.006   1.699  1.00 49.25      A16S
ATOM  25114  C5* A   A1191     198.582 135.259   2.143  1.00 49.25      A16S
ATOM  25115  C4* A   A1191     197.162 135.407   1.652  1.00 49.25      A16S
ATOM  25116  O4* A   A1191     197.188 135.724   0.246  1.00 49.25      A16S
ATOM  25117  C1* A   A1191     196.189 134.983  -0.422  1.00 49.25      A16S
ATOM  25118  N9  A   A1191     196.871 134.017  -1.284  1.00 72.68      A16S
ATOM  25119  C4  A   A1191     196.439 133.555  -2.499  1.00 72.68      A16S
ATOM  25120  N3  A   A1191     195.311 133.893  -3.142  1.00 72.68      A16S
ATOM  25121  C2  A   A1191     195.216 133.239  -4.289  1.00 72.68      A16S
ATOM  25122  N1  A   A1191     196.055 132.350  -4.828  1.00 72.68      A16S
ATOM  25123  C6  A   A1191     197.181 132.032  -4.155  1.00 72.68      A16S
ATOM  25124  N6  A   A1191     198.020 131.141  -4.692  1.00 72.68      A16S
ATOM  25125  C5  A   A1191     197.400 132.660  -2.923  1.00 72.68      A16S
ATOM  25126  N7  A   A1191     198.423 132.558  -1.992  1.00 72.68      A16S
ATOM  25127  C8  A   A1191     198.065 133.380  -1.043  1.00 72.68      A16S
ATOM  25128  C2* A   A1191     195.317 134.292   0.636  1.00 49.25      A16S
ATOM  25129  O2* A   A1191     194.144 135.042   0.908  1.00 49.25      A16S
ATOM  25130  C3* A   A1191     196.282 134.174   1.808  1.00 49.25      A16S
ATOM  25131  O3* A   A1191     195.593 134.196   3.049  1.00 49.25      A16S
ATOM  25132  P   C   A1192     195.244 132.821   3.795  1.00 57.18      A16S
ATOM  25133  O1P C   A1192     194.702 133.174   5.133  1.00103.62      A16S
ATOM  25134  O2P C   A1192     196.411 131.910   3.700  1.00103.62      A16S
ATOM  25135  O5* C   A1192     194.057 132.209   2.923  1.00 57.18      A16S
ATOM  25136  C5* C   A1192     192.720 132.771   2.971  1.00 57.18      A16S
ATOM  25137  C4* C   A1192     191.764 131.929   2.154  1.00 57.18      A16S
ATOM  25138  O4* C   A1192     192.044 132.100   0.742  1.00 57.18      A16S
ATOM  25139  C1* C   A1192     191.863 130.865   0.067  1.00 57.18      A16S
ATOM  25140  N1  C   A1192     193.137 130.485  -0.582  1.00103.62      A16S
ATOM  25141  C6  C   A1192     194.337 130.935  -0.104  1.00103.62      A16S
ATOM  25142  C2  C   A1192     193.098 129.648  -1.699  1.00103.62      A16S
ATOM  25143  O2  C   A1192     191.997 129.265  -2.124  1.00103.62      A16S
ATOM  25144  N3  C   A1192     194.258 129.280  -2.289  1.00103.62      A16S
ATOM  25145  C4  C   A1192     195.421 129.721  -1.809  1.00103.62      A16S
ATOM  25146  N4  C   A1192     196.540 129.324  -2.416  1.00103.62      A16S
ATOM  25147  C5  C   A1192     195.490 130.584  -0.684  1.00103.62      A16S
ATOM  25148  C2* C   A1192     191.373 129.833   1.086  1.00 57.18      A16S
ATOM  25149  O2* C   A1192     189.970 129.716   1.000  1.00 57.18      A16S
ATOM  25150  C3* C   A1192     191.852 130.434   2.401  1.00 57.18      A16S
ATOM  25151  O3* C   A1192     191.020 130.052   3.476  1.00 57.18      A16S
ATOM  25152  P   G   A1193     191.248 128.636   4.186  1.00 47.51      A16S
ATOM  25153  O1P G   A1193     190.011 128.244   4.897  1.00 87.87      A16S
ATOM  25154  O2P G   A1193     192.536 128.702   4.932  1.00 87.87      A16S
ATOM  25155  O5* G   A1193     191.407 127.641   2.962  1.00 47.51      A16S
ATOM  25156  C5* G   A1193     192.400 126.602   2.993  1.00 47.51      A16S
ATOM  25157  C4* G   A1193     192.646 126.074   1.602  1.00 47.51      A16S
ATOM  25158  O4* G   A1193     193.206 127.112   0.745  1.00 47.51      A16S
ATOM  25159  C1* G   A1193     194.155 126.535  -0.138  1.00 47.51      A16S
ATOM  25160  N9  G   A1193     195.479 127.058   0.210  1.00 87.87      A16S
ATOM  25161  C4  G   A1193     196.696 126.630  -0.284  1.00 87.87      A16S
ATOM  25162  N3  G   A1193     196.882 125.687  -1.228  1.00 87.87      A16S
ATOM  25163  C2  G   A1193     198.161 125.478  -1.469  1.00 87.87      A16S
ATOM  25164  N2  G   A1193     198.522 124.597  -2.400  1.00 87.87      A16S
ATOM  25165  N1  G   A1193     199.180 126.122  -0.822  1.00 87.87      A16S
ATOM  25166  C6  G   A1193     199.016 127.090   0.157  1.00 87.87      A16S
ATOM  25167  O6  G   A1193     200.008 127.598   0.691  1.00 87.87      A16S
ATOM  25168  C5  G   A1193     197.643 127.348   0.408  1.00 87.87      A16S
ATOM  25169  N7  G   A1193     197.043 128.240   1.283  1.00 87.87      A16S
ATOM  25170  C8  G   A1193     195.764 128.039   1.127  1.00 87.87      A16S
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ATOM  25171  C2* G   A1193     194.077 125.018   0.073  1.00 47.51      A16S
ATOM  25172  O2* G   A1193     193.051 124.523  -0.749  1.00 47.51      A16S
ATOM  25173  C3* G   A1193     193.631 124.927   1.517  1.00 47.51      A16S
ATOM  25174  O3* G   A1193     192.956 123.716   1.774  1.00 47.51      A16S
ATOM  25175  P    U   A1194     193.775 122.447   2.309  1.00 56.30      A16S
ATOM  25176  O1P U   A1194     192.828 121.307   2.429  1.00 80.87      A16S
ATOM  25177  O2P U   A1194     194.580 122.851   3.487  1.00 80.87      A16S
ATOM  25178  O5* U   A1194     194.758 122.143   1.098  1.00 56.30      A16S
ATOM  25179  C5* U   A1194     194.239 121.888  -0.222  1.00 56.30      A16S
ATOM  25180  C4* U   A1194     195.305 121.281  -1.091  1.00 56.30      A16S
ATOM  25181  O4* U   A1194     196.295 122.281  -1.430  1.00 56.30      A16S
ATOM  25182  C1* U   A1194     197.580 121.683  -1.446  1.00 56.30      A16S
ATOM  25183  N1   U   A1194     198.434 122.403  -0.490  1.00 80.87      A16S
ATOM  25184  C6   U   A1194     197.919 122.924   0.671  1.00 80.87      A16S
ATOM  25185  C2   U   A1194     199.776 122.544  -0.795  1.00 80.87      A16S
ATOM  25186  O2   U   A1194     200.279 122.104  -1.821  1.00 80.87      A16S
ATOM  25187  N3   U   A1194     200.507 123.226   0.143  1.00 80.87      A16S
ATOM  25188  C4   U   A1194     200.048 123.771   1.318  1.00 80.87      A16S
ATOM  25189  O4   U   A1194     200.831 124.352   2.060  1.00 80.87      A16S
ATOM  25190  C5   U   A1194     198.660 123.585   1.557  1.00 80.87      A16S
ATOM  25191  C2* U   A1194     197.419 120.189  -1.137  1.00 56.30      A16S
ATOM  25192  O2* U   A1194     197.392 119.440  -2.336  1.00 56.30      A16S
ATOM  25193  C3* U   A1194     196.076 120.159  -0.423  1.00 56.30      A16S
ATOM  25194  O3* U   A1194     195.400 118.929  -0.599  1.00 56.30      A16S
ATOM  25195  P    C   A1195     195.592 117.763   0.478  1.00 60.41      A16S
ATOM  25196  O1P C   A1195     194.646 116.677   0.114  1.00 98.01      A16S
ATOM  25197  O2P C   A1195     195.548 118.353   1.840  1.00 98.01      A16S
ATOM  25198  O5* C   A1195     197.070 117.238   0.224  1.00 60.41      A16S
ATOM  25199  C5* C   A1195     197.420 116.637  -1.025  1.00 60.41      A16S
ATOM  25200  C4* C   A1195     198.891 116.368  -1.058  1.00 60.41      A16S
ATOM  25201  O4* C   A1195     199.585 117.629  -0.992  1.00 60.41      A16S
ATOM  25202  C1* C   A1195     200.737 117.496  -0.187  1.00 60.41      A16S
ATOM  25203  N1   C   A1195     200.728 118.589   0.812  1.00 98.01      A16S
ATOM  25204  C6   C   A1195     199.567 118.971   1.423  1.00 98.01      A16S
ATOM  25205  C2   C   A1195     201.927 119.256   1.100  1.00 98.01      A16S
ATOM  25206  O2   C   A1195     202.974 118.878   0.558  1.00 98.01      A16S
ATOM  25207  N3   C   A1195     201.915 120.297   1.962  1.00 98.01      A16S
ATOM  25208  C4   C   A1195     200.774 120.674   2.533  1.00 98.01      A16S
ATOM  25209  N4   C   A1195     200.809 121.715   3.362  1.00 98.01      A16S
ATOM  25210  C5   C   A1195     199.546 120.003   2.277  1.00 98.01      A16S
ATOM  25211  C2* C   A1195     200.831 116.042   0.304  1.00 60.41      A16S
ATOM  25212  O2* C   A1195     201.795 115.362  -0.481  1.00 60.41      A16S
ATOM  25213  C3* C   A1195     199.393 115.540   0.112  1.00 60.41      A16S
ATOM  25214  O3* C   A1195     199.275 114.164  -0.285  1.00 60.41      A16S
ATOM  25215  P    U   A1196     199.591 112.973   0.751  1.00 62.84      A16S
ATOM  25216  O1P U   A1196     200.977 113.148   1.245  1.00164.90      A16S
ATOM  25217  O2P U   A1196     199.218 111.707   0.074  1.00164.90      A16S
ATOM  25218  O5* U   A1196     198.565 113.195   1.954  1.00 62.84      A16S
ATOM  25219  C5* U   A1196     198.697 114.306   2.871  1.00 62.84      A16S
ATOM  25220  C4* U   A1196     198.334 113.873   4.278  1.00 62.84      A16S
ATOM  25221  O4* U   A1196     196.968 113.422   4.290  1.00 62.84      A16S
ATOM  25222  C1* U   A1196     196.771 112.730   5.490  1.00 62.84      A16S
ATOM  25223  N1   U   A1196     195.567 111.891   5.390  1.00164.90      A16S
ATOM  25224  C6   U   A1196     195.569 110.696   4.710  1.00164.90      A16S
ATOM  25225  C2   U   A1196     194.419 112.348   6.026  1.00164.90      A16S
ATOM  25226  O2   U   A1196     194.361 113.415   6.619  1.00164.90      A16S
ATOM  25227  N3   U   A1196     193.339 111.510   5.938  1.00164.90      A16S
ATOM  25228  C4   U   A1196     193.280 110.294   5.292  1.00164.90      A16S
ATOM  25229  O4   U   A1196     192.240 109.633   5.336  1.00164.90      A16S
ATOM  25230  C5   U   A1196     194.495 109.903   4.642  1.00164.90      A16S
ATOM  25231  C2* U   A1196     198.097 112.044   5.843  1.00 62.84      A16S
ATOM  25232  O2* U   A1196     198.431 112.331   7.184  1.00 62.84      A16S
ATOM  25233  C3* U   A1196     199.087 112.667   4.845  1.00 62.84      A16S
ATOM  25234  O3* U   A1196     200.307 112.960   5.566  1.00 62.84      A16S
ATOM  25235  P    G   A1197     200.666 114.469   6.011  1.00 42.69      A16S
ATOM  25236  O1P G   A1197     201.917 114.415   6.784  1.00 90.47      A16S
ATOM  25237  O2P G   A1197     199.465 115.125   6.606  1.00 90.47      A16S
ATOM  25238  O5* G   A1197     201.027 115.225   4.655  1.00 42.69      A16S
ATOM  25239  C5* G   A1197     201.739 114.548   3.592  1.00 42.69      A16S
ATOM  25240  C4* G   A1197     203.148 115.070   3.474  1.00 42.69      A16S
ATOM  25241  O4* G   A1197     203.139 116.447   3.040  1.00 42.69      A16S
ATOM  25242  C1* G   A1197     204.164 117.159   3.705  1.00 42.69      A16S
ATOM  25243  N9   G   A1197     203.523 118.246   4.443  1.00 90.47      A16S
ATOM  25244  C4   G   A1197     204.129 119.301   5.096  1.00 90.47      A16S
ATOM  25245  N3   G   A1197     205.456 119.532   5.186  1.00 90.47      A16S
ATOM  25246  C2   G   A1197     205.715 120.630   5.876  1.00 90.47      A16S
ATOM  25247  N2   G   A1197     206.974 121.030   6.057  1.00 90.47      A16S
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ATOM  25248  N1  G  A1197     204.755 121.423   6.438  1.00 90.47      A16S
ATOM  25249  C6  G  A1197     203.388 121.200   6.362  1.00 90.47      A16S
ATOM  25250  O6  G  A1197     202.607 121.977   6.911  1.00 90.47      A16S
ATOM  25251  C5  G  A1197     203.092 120.043   5.623  1.00 90.47      A16S
ATOM  25252  N7  G  A1197     201.868 119.475   5.310  1.00 90.47      A16S
ATOM  25253  C8  G  A1197     202.169 118.416   4.615  1.00 90.47      A16S
ATOM  25254  C2* G  A1197     204.951 116.155   4.560  1.00 42.69      A16S
ATOM  25255  O2* G  A1197     206.027 115.674   3.801  1.00 42.69      A16S
ATOM  25256  C3* G  A1197     203.942 115.040   4.765  1.00 42.69      A16S
ATOM  25257  O3* G  A1197     204.565 113.766   4.850  1.00 42.69      A16S
ATOM  25258  P   G  A1198     205.039 113.193   6.270  1.00 43.87      A16S
ATOM  25259  O1P G  A1198     205.958 112.043   6.031  1.00 86.11      A16S
ATOM  25260  O2P G  A1198     203.848 112.989   7.126  1.00 86.11      A16S
ATOM  25261  O5* G  A1198     205.900 114.407   6.832  1.00 43.87      A16S
ATOM  25262  C5* G  A1198     207.230 114.650   6.343  1.00 43.87      A16S
ATOM  25263  C4* G  A1198     208.009 115.493   7.323  1.00 43.87      A16S
ATOM  25264  O4* G  A1198     207.730 116.902   7.142  1.00 43.87      A16S
ATOM  25265  C1* G  A1198     207.808 117.559   8.392  1.00 43.87      A16S
ATOM  25266  N9  G  A1198     206.543 118.259   8.615  1.00 86.11      A16S
ATOM  25267  C4  G  A1198     206.324 119.324   9.463  1.00 86.11      A16S
ATOM  25268  N3  G  A1198     207.240 119.905  10.268  1.00 86.11      A16S
ATOM  25269  C2  G  A1198     206.731 120.923  10.939  1.00 86.11      A16S
ATOM  25270  N2  G  A1198     207.506 121.628  11.771  1.00 86.11      A16S
ATOM  25271  N1  G  A1198     205.425 121.331  10.838  1.00 86.11      A16S
ATOM  25272  C6  G  A1198     204.462 120.742  10.027  1.00 86.11      A16S
ATOM  25273  O6  G  A1198     203.310 121.183  10.019  1.00 86.11      A16S
ATOM  25274  C5  G  A1198     204.995 119.658   9.292  1.00 86.11      A16S
ATOM  25275  N7  G  A1198     204.387 118.814   8.374  1.00 86.11      A16S
ATOM  25276  C8  G  A1198     205.338 118.000   8.004  1.00 86.11      A16S
ATOM  25277  C2* G  A1198     208.188 116.513   9.448  1.00 43.87      A16S
ATOM  25278  O2* G  A1198     209.589 116.526   9.592  1.00 43.87      A16S
ATOM  25279  C3* G  A1198     207.751 115.217   8.790  1.00 43.87      A16S
ATOM  25280  O3* G  A1198     208.521 114.109   9.214  1.00 43.87      A16S
ATOM  25281  P   U  A1199     208.067 113.288  10.509  1.00 36.48      A16S
ATOM  25282  O1P U  A1199     208.895 112.052  10.693  1.00 70.59      A16S
ATOM  25283  O2P U  A1199     206.589 113.165  10.429  1.00 70.59      A16S
ATOM  25284  O5* U  A1199     208.400 114.291  11.699  1.00 36.48      A16S
ATOM  25285  C5* U  A1199     209.762 114.540  12.112  1.00 36.48      A16S
ATOM  25286  C4* U  A1199     209.809 115.700  13.079  1.00 36.48      A16S
ATOM  25287  O4* U  A1199     209.164 116.841  12.460  1.00 36.48      A16S
ATOM  25288  C1* U  A1199     208.489 117.596  13.441  1.00 36.48      A16S
ATOM  25289  N1  U  A1199     207.078 117.758  13.049  1.00 70.59      A16S
ATOM  25290  C6  U  A1199     206.432 116.855  12.243  1.00 70.59      A16S
ATOM  25291  C2  U  A1199     206.417 118.864  13.534  1.00 70.59      A16S
ATOM  25292  O2  U  A1199     206.956 119.694  14.246  1.00 70.59      A16S
ATOM  25293  N3  U  A1199     205.100 118.969  13.160  1.00 70.59      A16S
ATOM  25294  C4  U  A1199     204.392 118.103  12.370  1.00 70.59      A16S
ATOM  25295  O4  U  A1199     203.198 118.319  12.153  1.00 70.59      A16S
ATOM  25296  C5  U  A1199     205.147 116.987  11.897  1.00 70.59      A16S
ATOM  25297  C2* U  A1199     208.709 116.919  14.796  1.00 36.48      A16S
ATOM  25298  O2* U  A1199     209.770 117.588  15.434  1.00 36.48      A16S
ATOM  25299  C3* U  A1199     209.075 115.498  14.394  1.00 36.48      A16S
ATOM  25300  O3* U  A1199     209.951 114.918  15.338  1.00 36.48      A16S
ATOM  25301  P   C  A1200     209.614 113.484  15.970  1.00 64.93      A16S
ATOM  25302  O1P C  A1200     210.876 112.721  16.163  1.00 93.26      A16S
ATOM  25303  O2P C  A1200     208.516 112.884  15.181  1.00 93.26      A16S
ATOM  25304  O5* C  A1200     209.038 113.847  17.406  1.00 64.93      A16S
ATOM  25305  C5* C  A1200     207.660 114.225  17.566  1.00 64.93      A16S
ATOM  25306  C4* C  A1200     207.278 114.250  19.028  1.00 64.93      A16S
ATOM  25307  O4* C  A1200     205.834 114.390  19.104  1.00 64.93      A16S
ATOM  25308  C1* C  A1200     205.284 113.296  19.802  1.00 64.93      A16S
ATOM  25309  N1  C  A1200     204.016 112.933  19.150  1.00 93.26      A16S
ATOM  25310  C6  C  A1200     203.987 112.577  17.832  1.00 93.26      A16S
ATOM  25311  C2  C  A1200     202.838 112.950  19.901  1.00 93.26      A16S
ATOM  25312  O2  C  A1200     202.882 113.285  21.091  1.00 93.26      A16S
ATOM  25313  N3  C  A1200     201.680 112.598  19.313  1.00 93.26      A16S
ATOM  25314  C4  C  A1200     201.665 112.238  18.032  1.00 93.26      A16S
ATOM  25315  N4  C  A1200     200.501 111.882  17.499  1.00 93.26      A16S
ATOM  25316  C5  C  A1200     202.845 112.224  17.240  1.00 93.26      A16S
ATOM  25317  C2* C  A1200     206.340 112.188  19.784  1.00 64.93      A16S
ATOM  25318  O2* C  A1200     206.208 111.319  20.888  1.00 64.93      A16S
ATOM  25319  C3* C  A1200     207.632 112.993  19.819  1.00 64.93      A16S
ATOM  25320  O3* C  A1200     207.896 113.387  21.158  1.00 64.93      A16S
ATOM  25321  P   A  A1201     209.186 112.823  21.943  1.00 69.24      A16S
ATOM  25322  O1P A  A1201     209.200 111.320  21.921  1.00 44.27      A16S
ATOM  25323  O2P A  A1201     209.146 113.541  23.249  1.00 44.27      A16S
ATOM  25324  O5* A  A1201     210.437 113.412  21.149  1.00 69.24      A16S
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ATOM  25325  C5* A   A1201     210.804 114.805  21.288  1.00 69.24      A16S
ATOM  25326  C4* A   A1201     212.084 115.090  20.543  1.00 69.24      A16S
ATOM  25327  O4* A   A1201     213.111 114.226  21.063  1.00 69.24      A16S
ATOM  25328  C1* A   A1201     214.017 113.893  20.036  1.00 69.24      A16S
ATOM  25329  N9  A   A1201     214.393 112.485  20.174  1.00 44.27      A16S
ATOM  25330  C4  A   A1201     215.606 111.953  19.817  1.00 44.27      A16S
ATOM  25331  N3  A   A1201     216.631 112.592  19.230  1.00 44.27      A16S
ATOM  25332  C2  A   A1201     217.655 111.760  19.051  1.00 44.27      A16S
ATOM  25333  N1  A   A1201     217.762 110.468  19.370  1.00 44.27      A16S
ATOM  25334  C6  A   A1201     216.715 109.859  19.964  1.00 44.27      A16S
ATOM  25335  N6  A   A1201     216.831 108.573  20.299  1.00 44.27      A16S
ATOM  25336  C5  A   A1201     215.566 110.624  20.203  1.00 44.27      A16S
ATOM  25337  N7  A   A1201     214.339 110.312  20.769  1.00 44.27      A16S
ATOM  25338  C8  A   A1201     213.675 111.444  20.716  1.00 44.27      A16S
ATOM  25339  C2* A   A1201     213.482 114.402  18.696  1.00 69.24      A16S
ATOM  25340  O2* A   A1201     214.327 115.423  18.226  1.00 69.24      A16S
ATOM  25341  C3* A   A1201     212.053 114.816  19.050  1.00 69.24      A16S
ATOM  25342  O3* A   A1201     211.481 115.927  18.332  1.00 69.24      A16S
ATOM  25343  P   G   A1202     212.203 117.377  18.313  1.00 56.34      A16S
ATOM  25344  O1P G   A1202     211.138 118.376  18.050  1.00 67.34      A16S
ATOM  25345  O2P G   A1202     213.403 117.358  17.445  1.00 67.34      A16S
ATOM  25346  O5* G   A1202     212.628 117.630  19.823  1.00 56.34      A16S
ATOM  25347  C5* G   A1202     213.913 118.188  20.164  1.00 56.34      A16S
ATOM  25348  C4* G   A1202     213.748 119.439  21.002  1.00 56.34      A16S
ATOM  25349  O4* G   A1202     213.514 120.594  20.154  1.00 56.34      A16S
ATOM  25350  C1* G   A1202     212.797 121.567  20.886  1.00 56.34      A16S
ATOM  25351  N9  G   A1202     211.652 122.026  20.113  1.00 67.34      A16S
ATOM  25352  C4  G   A1202     210.925 123.156  20.376  1.00 67.34      A16S
ATOM  25353  N3  G   A1202     211.144 124.009  21.391  1.00 67.34      A16S
ATOM  25354  C2  G   A1202     210.292 125.013  21.377  1.00 67.34      A16S
ATOM  25355  N2  G   A1202     210.374 125.965  22.312  1.00 67.34      A16S
ATOM  25356  N1  G   A1202     209.297 125.163  20.448  1.00 67.34      A16S
ATOM  25357  C6  G   A1202     209.050 124.295  19.399  1.00 67.34      A16S
ATOM  25358  O6  G   A1202     208.123 124.527  18.621  1.00 67.34      A16S
ATOM  25359  C5  G   A1202     209.963 123.214  19.395  1.00 67.34      A16S
ATOM  25360  N7  G   A1202     210.075 122.133  18.534  1.00 67.34      A16S
ATOM  25361  C8  G   A1202     211.088 121.452  19.003  1.00 67.34      A16S
ATOM  25362  C2* G   A1202     212.402 120.962  22.232  1.00 56.34      A16S
ATOM  25363  O2* G   A1202     213.282 121.448  23.223  1.00 56.34      A16S
ATOM  25364  C3* G   A1202     212.588 119.471  21.984  1.00 56.34      A16S
ATOM  25365  O3* G   A1202     212.840 118.777  23.200  1.00 56.34      A16S
ATOM  25366  P   C   A1203     211.591 118.253  24.074  1.00 60.33      A16S
ATOM  25367  O1P C   A1203     212.100 117.926  25.435  1.00 90.41      A16S
ATOM  25368  O2P C   A1203     210.853 117.218  23.308  1.00 90.41      A16S
ATOM  25369  O5* C   A1203     210.653 119.536  24.185  1.00 60.33      A16S
ATOM  25370  C5* C   A1203     211.041 120.629  25.028  1.00 60.33      A16S
ATOM  25371  C4* C   A1203     209.967 121.681  25.074  1.00 60.33      A16S
ATOM  25372  O4* C   A1203     209.830 122.313  23.776  1.00 60.33      A16S
ATOM  25373  C1* C   A1203     208.470 122.660  23.562  1.00 60.33      A16S
ATOM  25374  N1  C   A1203     207.986 121.913  22.384  1.00 90.41      A16S
ATOM  25375  C6  C   A1203     208.468 120.663  22.107  1.00 90.41      A16S
ATOM  25376  C2  C   A1203     207.010 122.490  21.557  1.00 90.41      A16S
ATOM  25377  O2  C   A1203     206.593 123.629  21.815  1.00 90.41      A16S
ATOM  25378  N3  C   A1203     206.547 121.791  20.497  1.00 90.41      A16S
ATOM  25379  C4  C   A1203     207.020 120.569  20.246  1.00 90.41      A16S
ATOM  25380  N4  C   A1203     206.535 119.914  19.192  1.00 90.41      A16S
ATOM  25381  C5  C   A1203     208.014 119.963  21.062  1.00 90.41      A16S
ATOM  25382  C2* C   A1203     207.693 122.290  24.833  1.00 60.33      A16S
ATOM  25383  O2* C   A1203     207.580 123.406  25.697  1.00 60.33      A16S
ATOM  25384  C3* C   A1203     208.573 121.192  25.413  1.00 60.33      A16S
ATOM  25385  O3* C   A1203     208.386 120.986  26.804  1.00 60.33      A16S
ATOM  25386  P   A   A1204     207.441 119.783  27.299  1.00 70.96      A16S
ATOM  25387  O1P A   A1204     207.591 119.674  28.769  1.00120.55      A16S
ATOM  25388  O2P A   A1204     207.699 118.585  26.458  1.00120.55      A16S
ATOM  25389  O5* A   A1204     205.983 120.338  26.975  1.00 70.96      A16S
ATOM  25390  C5* A   A1204     205.562 121.605  27.511  1.00 70.96      A16S
ATOM  25391  C4* A   A1204     204.277 122.057  26.866  1.00 70.96      A16S
ATOM  25392  O4* A   A1204     204.524 122.332  25.467  1.00 70.96      A16S
ATOM  25393  C1* A   A1204     203.396 121.950  24.697  1.00 70.96      A16S
ATOM  25394  N9  A   A1204     203.813 120.876  23.794  1.00120.55      A16S
ATOM  25395  C4  A   A1204     203.089 120.355  22.750  1.00120.55      A16S
ATOM  25396  N3  A   A1204     201.866 120.727  22.338  1.00120.55      A16S
ATOM  25397  C2  A   A1204     201.476 119.985  21.309  1.00120.55      A16S
ATOM  25398  N1  A   A1204     202.120 118.993  20.687  1.00120.55      A16S
ATOM  25399  C6  A   A1204     203.347 118.645  21.127  1.00120.55      A16S
ATOM  25400  N6  A   A1204     203.991 117.650  20.514  1.00120.55      A16S
ATOM  25401  C5  A   A1204     203.873 119.353  22.213  1.00120.55      A16S
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ATOM  25402  N7  A   A1204     205.074 119.248  22.897  1.00120.55      A16S
ATOM  25403  C8  A   A1204     204.991 120.172  23.820  1.00120.55      A16S
ATOM  25404  C2* A   A1204     202.307 121.486  25.667  1.00 70.96      A16S
ATOM  25405  O2* A   A1204     201.425 122.553  25.953  1.00 70.96      A16S
ATOM  25406  C3* A   A1204     203.135 121.051  26.870  1.00 70.96      A16S
ATOM  25407  O3* A   A1204     202.389 121.057  28.081  1.00 70.96      A16S
ATOM  25408  P   U   A1205     201.960 119.659  28.749  1.00 67.93      A16S
ATOM  25409  O1P U   A1205     201.122 119.996  29.924  1.00109.62      A16S
ATOM  25410  O2P U   A1205     203.159 118.799  28.931  1.00109.62      A16S
ATOM  25411  O5* U   A1205     201.023 118.984  27.649  1.00 67.93      A16S
ATOM  25412  C5* U   A1205     199.794 119.622  27.247  1.00 67.93      A16S
ATOM  25413  C4* U   A1205     199.088 118.826  26.164  1.00 67.93      A16S
ATOM  25414  O4* U   A1205     199.841 118.892  24.921  1.00 67.93      A16S
ATOM  25415  C1* U   A1205     199.605 117.716  24.162  1.00 67.93      A16S
ATOM  25416  N1  U   A1205     200.891 117.054  23.880  1.00109.62      A16S
ATOM  25417  C6  U   A1205     201.800 116.798  24.878  1.00109.62      A16S
ATOM  25418  C2  U   A1205     201.158 116.688  22.571  1.00109.62      A16S
ATOM  25419  O2  U   A1205     200.387 116.894  21.651  1.00109.62      A16S
ATOM  25420  N3  U   A1205     202.367 116.069  22.377  1.00109.62      A16S
ATOM  25421  C4  U   A1205     203.317 115.787  23.331  1.00109.62      A16S
ATOM  25422  O4  U   A1205     204.370 115.242  22.998  1.00109.62      A16S
ATOM  25423  C5  U   A1205     202.969 116.194  24.654  1.00109.62      A16S
ATOM  25424  C2* U   A1205     198.636 116.838  24.955  1.00 67.93      A16S
ATOM  25425  O2* U   A1205     197.322 117.098  24.499  1.00 67.93      A16S
ATOM  25426  C3* U   A1205     198.855 117.336  26.381  1.00 67.93      A16S
ATOM  25427  O3* U   A1205     197.732 117.047  27.207  1.00 67.93      A16S
ATOM  25428  P   G   A1206     197.529 115.551  27.782  1.00 67.13      A16S
ATOM  25429  O1P G   A1206     196.834 115.658  29.088  1.00 97.71      A16S
ATOM  25430  O2P G   A1206     198.816 114.805  27.705  1.00 97.71      A16S
ATOM  25431  O5* G   A1206     196.516 114.885  26.746  1.00 67.13      A16S
ATOM  25432  C5* G   A1206     195.155 115.375  26.588  1.00 67.13      A16S
ATOM  25433  C4* G   A1206     194.360 114.429  25.713  1.00 67.13      A16S
ATOM  25434  O4* G   A1206     194.748 114.604  24.328  1.00 67.13      A16S
ATOM  25435  C1* G   A1206     194.920 113.334  23.711  1.00 67.13      A16S
ATOM  25436  N9  G   A1206     196.340 113.183  23.395  1.00 97.71      A16S
ATOM  25437  C4  G   A1206     196.918 112.223  22.597  1.00 97.71      A16S
ATOM  25438  N3  G   A1206     196.270 111.244  21.934  1.00 97.71      A16S
ATOM  25439  C2  G   A1206     197.104 110.454  21.285  1.00 97.71      A16S
ATOM  25440  N2  G   A1206     196.632 109.422  20.582  1.00 97.71      A16S
ATOM  25441  N1  G   A1206     198.467 110.617  21.278  1.00 97.71      A16S
ATOM  25442  C6  G   A1206     199.155 111.622  21.949  1.00 97.71      A16S
ATOM  25443  O6  G   A1206     200.391 111.681  21.881  1.00 97.71      A16S
ATOM  25444  C5  G   A1206     198.273 112.470  22.655  1.00 97.71      A16S
ATOM  25445  N7  G   A1206     198.539 113.571  23.453  1.00 97.71      A16S
ATOM  25446  C8  G   A1206     197.367 113.964  23.863  1.00 97.71      A16S
ATOM  25447  C2* G   A1206     194.439 112.263  24.696  1.00 67.13      A16S
ATOM  25448  O2* G   A1206     193.103 111.892  24.436  1.00 67.13      A16S
ATOM  25449  C3* G   A1206     194.635 112.967  26.030  1.00 67.13      A16S
ATOM  25450  O3* G   A1206     193.782 112.479  27.042  1.00 67.13      A16S
ATOM  25451  P   G   A1207     194.295 111.304  27.998  1.00 67.03      A16S
ATOM  25452  O1P G   A1207     193.208 110.997  28.962  1.00 89.63      A16S
ATOM  25453  O2P G   A1207     195.654 111.656  28.499  1.00 89.63      A16S
ATOM  25454  O5* G   A1207     194.413 110.058  27.022  1.00 67.03      A16S
ATOM  25455  C5* G   A1207     193.251 109.525  26.374  1.00 67.03      A16S
ATOM  25456  C4* G   A1207     193.654 108.450  25.405  1.00 67.03      A16S
ATOM  25457  O4* G   A1207     194.400 109.045  24.315  1.00 67.03      A16S
ATOM  25458  C1* G   A1207     195.426 108.156  23.905  1.00 67.03      A16S
ATOM  25459  N9  G   A1207     196.717 108.823  24.057  1.00 89.63      A16S
ATOM  25460  C4  G   A1207     197.906 108.406  23.515  1.00 89.63      A16S
ATOM  25461  N3  G   A1207     198.081 107.316  22.746  1.00 89.63      A16S
ATOM  25462  C2  G   A1207     199.333 107.170  22.375  1.00 89.63      A16S
ATOM  25463  N2  G   A1207     199.674 106.128  21.614  1.00 89.63      A16S
ATOM  25464  N1  G   A1207     200.341 108.033  22.722  1.00 89.63      A16S
ATOM  25465  C6  G   A1207     200.185 109.166  23.509  1.00 89.63      A16S
ATOM  25466  O6  G   A1207     201.160 109.885  23.756  1.00 89.63      A16S
ATOM  25467  C5  G   A1207     198.840 109.328  23.925  1.00 89.63      A16S
ATOM  25468  N7  G   A1207     198.253 110.309  24.710  1.00 89.63      A16S
ATOM  25469  C8  G   A1207     196.994 109.970  24.762  1.00 89.63      A16S
ATOM  25470  C2* G   A1207     195.325 106.887  24.758  1.00 67.03      A16S
ATOM  25471  O2* G   A1207     194.625 105.876  24.058  1.00 67.03      A16S
ATOM  25472  C3* G   A1207     194.580 107.395  25.983  1.00 67.03      A16S
ATOM  25473  O3* G   A1207     193.859 106.367  26.629  1.00 67.03      A16S
ATOM  25474  P   C   A1208     194.582 105.482  27.754  1.00 81.37      A16S
ATOM  25475  O1P C   A1208     193.591 104.511  28.294  1.00103.12      A16S
ATOM  25476  O2P C   A1208     195.272 106.424  28.677  1.00103.12      A16S
ATOM  25477  O5* C   A1208     195.690 104.656  26.967  1.00 81.37      A16S
ATOM  25478  C5* C   A1208     195.332 103.729  25.933  1.00 81.37      A16S
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ATOM  25479  C4* C   A1208     196.579 103.178  25.295  1.00 81.37      A16S
ATOM  25480  O4* C   A1208     197.287 104.252  24.627  1.00 81.37      A16S
ATOM  25481  C1* C   A1208     198.684 104.054  24.760  1.00 81.37      A16S
ATOM  25482  N1   C   A1208     199.299 105.269  25.336  1.00103.12      A16S
ATOM  25483  C6   C   A1208     198.543 106.209  25.978  1.00103.12      A16S
ATOM  25484  C2   C   A1208     200.680 105.447  25.210  1.00103.12      A16S
ATOM  25485  O2   C   A1208     201.345 104.584  24.624  1.00103.12      A16S
ATOM  25486  N3   C   A1208     201.256 106.551  25.728  1.00103.12      A16S
ATOM  25487  C4   C   A1208     200.509 107.461  26.349  1.00103.12      A16S
ATOM  25488  N4   C   A1208     201.120 108.542  26.840  1.00103.12      A16S
ATOM  25489  C5   C   A1208     199.101 107.308  26.494  1.00103.12      A16S
ATOM  25490  C2* C   A1208     198.914 102.774  25.571  1.00 81.37      A16S
ATOM  25491  O2* C   A1208     199.204 101.706  24.699  1.00 81.37      A16S
ATOM  25492  C3* C   A1208     197.579 102.598  26.282  1.00 81.37      A16S
ATOM  25493  O3* C   A1208     197.295 101.228  26.548  1.00 81.37      A16S
ATOM  25494  P    C   A1209     197.573 100.628  28.012  1.00102.90      A16S
ATOM  25495  O1P C   A1209     196.988  99.262  28.096  1.00100.08      A16S
ATOM  25496  O2P C   A1209     197.172 101.664  29.003  1.00100.08      A16S
ATOM  25497  O5* C   A1209     199.152 100.455  28.046  1.00102.90      A16S
ATOM  25498  C5* C   A1209     199.797  99.536  27.154  1.00102.90      A16S
ATOM  25499  C4* C   A1209     201.287  99.764  27.146  1.00102.90      A16S
ATOM  25500  O4* C   A1209     201.592 101.060  26.576  1.00102.90      A16S
ATOM  25501  C1* C   A1209     202.757 101.580  27.187  1.00102.90      A16S
ATOM  25502  N1   C   A1209     202.466 102.918  27.731  1.00100.08      A16S
ATOM  25503  C6   C   A1209     201.182 103.345  27.922  1.00100.08      A16S
ATOM  25504  C2   C   A1209     203.542 103.755  28.046  1.00100.08      A16S
ATOM  25505  O2   C   A1209     204.700 103.337  27.874  1.00100.08      A16S
ATOM  25506  N3   C   A1209     203.297 104.993  28.532  1.00100.08      A16S
ATOM  25507  C4   C   A1209     202.040 105.402  28.709  1.00100.08      A16S
ATOM  25508  N4   C   A1209     201.846 106.630  29.189  1.00100.08      A16S
ATOM  25509  C5   C   A1209     200.926 104.568  28.402  1.00100.08      A16S
ATOM  25510  C2* C   A1209     203.231 100.579  28.241  1.00102.90      A16S
ATOM  25511  O2* C   A1209     204.265  99.791  27.690  1.00102.90      A16S
ATOM  25512  C3* C   A1209     201.963  99.776  28.504  1.00102.90      A16S
ATOM  25513  O3* C   A1209     202.252  98.460  28.948  1.00102.90      A16S
ATOM  25514  P    C   A1210     202.419  98.176  30.519  1.00102.59      A16S
ATOM  25515  O1P C   A1210     202.299  96.708  30.714  1.00 75.98      A16S
ATOM  25516  O2P C   A1210     201.515  99.099  31.264  1.00 75.98      A16S
ATOM  25517  O5* C   A1210     203.920  98.608  30.831  1.00102.59      A16S
ATOM  25518  C5* C   A1210     205.027  97.930  30.208  1.00102.59      A16S
ATOM  25519  C4* C   A1210     206.332  98.435  30.773  1.00102.59      A16S
ATOM  25520  O4* C   A1210     206.566  99.795  30.344  1.00102.59      A16S
ATOM  25521  C1* C   A1210     207.177 100.528  31.387  1.00102.59      A16S
ATOM  25522  N1   C   A1210     206.343 101.709  31.658  1.00 75.98      A16S
ATOM  25523  C6   C   A1210     204.993 101.676  31.435  1.00 75.98      A16S
ATOM  25524  C2   C   A1210     206.956 102.886  32.123  1.00 75.98      A16S
ATOM  25525  O2   C   A1210     208.181 102.885  32.356  1.00 75.98      A16S
ATOM  25526  N3   C   A1210     206.199 103.991  32.308  1.00 75.98      A16S
ATOM  25527  C4   C   A1210     204.887 103.951  32.060  1.00 75.98      A16S
ATOM  25528  N4   C   A1210     204.184 105.071  32.239  1.00 75.98      A16S
ATOM  25529  C5   C   A1210     204.237 102.762  31.615  1.00 75.98      A16S
ATOM  25530  C2* C   A1210     207.401  99.583  32.566  1.00102.59      A16S
ATOM  25531  O2* C   A1210     208.728  99.111  32.506  1.00102.59      A16S
ATOM  25532  C3* C   A1210     206.381  98.485  32.284  1.00102.59      A16S
ATOM  25533  O3* C   A1210     206.781  97.218  32.775  1.00102.59      A16S
ATOM  25534  P    U   A1211     206.485  96.839  34.301  1.00100.59      A16S
ATOM  25535  O1P U   A1211     206.886  95.414  34.486  1.00 84.41      A16S
ATOM  25536  O2P U   A1211     205.089  97.259  34.598  1.00 84.41      A16S
ATOM  25537  O5* U   A1211     207.496  97.786  35.091  1.00100.59      A16S
ATOM  25538  C5* U   A1211     207.259  98.181  36.450  1.00100.59      A16S
ATOM  25539  C4* U   A1211     207.868  99.536  36.697  1.00100.59      A16S
ATOM  25540  O4* U   A1211     207.167 100.518  35.905  1.00100.59      A16S
ATOM  25541  C1* U   A1211     207.386 101.784  36.479  1.00100.59      A16S
ATOM  25542  N1   U   A1211     206.222 102.660  36.270  1.00 84.41      A16S
ATOM  25543  C6   U   A1211     205.064 102.219  35.687  1.00 84.41      A16S
ATOM  25544  C2   U   A1211     206.350 103.981  36.677  1.00 84.41      A16S
ATOM  25545  O2   U   A1211     207.354 104.416  37.208  1.00 84.41      A16S
ATOM  25546  N3   U   A1211     205.260 104.776  36.440  1.00 84.41      A16S
ATOM  25547  C4   U   A1211     204.078 104.404  35.855  1.00 84.41      A16S
ATOM  25548  O4   U   A1211     203.186 105.248  35.705  1.00 84.41      A16S
ATOM  25549  C5   U   A1211     204.014 103.023  35.468  1.00 84.41      A16S
ATOM  25550  C2* U   A1211     207.829 101.587  37.931  1.00100.59      A16S
ATOM  25551  O2* U   A1211     209.134 102.100  38.067  1.00100.59      A16S
ATOM  25552  C3* U   A1211     207.743 100.069  38.114  1.00100.59      A16S
ATOM  25553  O3* U   A1211     208.844  99.623  38.915  1.00100.59      A16S
ATOM  25554  P    U   A1212     208.652  98.414  39.958  1.00138.04      A16S
ATOM  25555  O1P U   A1212     207.198  98.248  40.214  1.00200.46      A16S
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ATOM  25556  O2P U   A1212     209.572  98.661  41.099  1.00200.46      A16S
ATOM  25557  O5* U   A1212     209.148  97.139  39.139  1.00138.04      A16S
ATOM  25558  C5* U   A1212     210.213  96.290  39.622  1.00138.04      A16S
ATOM  25559  C4* U   A1212     211.553  96.930  39.344  1.00138.04      A16S
ATOM  25560  O4* U   A1212     211.885  97.832  40.430  1.00138.04      A16S
ATOM  25561  C1* U   A1212     213.288  97.865  40.608  1.00138.04      A16S
ATOM  25562  N1  U   A1212     213.600  97.710  42.041  1.00200.46      A16S
ATOM  25563  C6  U   A1212     214.215  96.576  42.537  1.00200.46      A16S
ATOM  25564  C2  U   A1212     213.262  98.760  42.889  1.00200.46      A16S
ATOM  25565  O2  U   A1212     212.708  99.781  42.504  1.00200.46      A16S
ATOM  25566  N3  U   A1212     213.599  98.572  44.208  1.00200.46      A16S
ATOM  25567  C4  U   A1212     214.220  97.472  44.760  1.00200.46      A16S
ATOM  25568  O4  U   A1212     214.470  97.461  45.967  1.00200.46      A16S
ATOM  25569  C5  U   A1212     214.528  96.428  43.830  1.00200.46      A16S
ATOM  25570  C2* U   A1212     213.927  96.867  39.637  1.00138.04      A16S
ATOM  25571  O2* U   A1212     214.485  97.581  38.555  1.00138.04      A16S
ATOM  25572  C3* U   A1212     212.739  95.982  39.249  1.00138.04      A16S
ATOM  25573  O3* U   A1212     212.811  95.477  37.905  1.00138.04      A16S
ATOM  25574  P   A   A1213     214.135  94.718  37.383  1.00161.99      A16S
ATOM  25575  O1P A   A1213     213.702  93.738  36.345  1.00 88.02      A16S
ATOM  25576  O2P A   A1213     214.909  94.242  38.561  1.00 88.02      A16S
ATOM  25577  O5* A   A1213     214.975  95.876  36.676  1.00161.99      A16S
ATOM  25578  C5* A   A1213     214.723  96.281  35.305  1.00161.99      A16S
ATOM  25579  C4* A   A1213     213.428  97.054  35.211  1.00161.99      A16S
ATOM  25580  O4* A   A1213     213.291  97.921  36.351  1.00161.99      A16S
ATOM  25581  C1* A   A1213     212.377  98.937  36.028  1.00161.99      A16S
ATOM  25582  N9  A   A1213     212.713 100.164  36.751  1.00 88.02      A16S
ATOM  25583  C4  A   A1213     212.090 101.379  36.599  1.00 88.02      A16S
ATOM  25584  N3  A   A1213     211.130 101.697  35.713  1.00 88.02      A16S
ATOM  25585  C2  A   A1213     210.731 102.951  35.887  1.00 88.02      A16S
ATOM  25586  N1  A   A1213     211.144 103.853  36.784  1.00 88.02      A16S
ATOM  25587  C6  A   A1213     212.109 103.499  37.660  1.00 88.02      A16S
ATOM  25588  N6  A   A1213     212.515 104.393  38.562  1.00 88.02      A16S
ATOM  25589  C5  A   A1213     212.626 102.201  37.571  1.00 88.02      A16S
ATOM  25590  N7  A   A1213     213.609 101.539  38.289  1.00 88.02      A16S
ATOM  25591  C8  A   A1213     213.633 100.342  37.756  1.00 88.02      A16S
ATOM  25592  C2* A   A1213     212.217  98.997  34.506  1.00161.99      A16S
ATOM  25593  O2* A   A1213     210.889  98.616  34.213  1.00161.99      A16S
ATOM  25594  C3* A   A1213     213.256  97.982  34.014  1.00161.99      A16S
ATOM  25595  O3* A   A1213     212.723  97.254  32.906  1.00161.99      A16S
ATOM  25596  P   C   A1214     213.370  97.408  31.440  1.00 76.51      A16S
ATOM  25597  O1P C   A1214     212.563  96.541  30.541  1.00 79.40      A16S
ATOM  25598  O2P C   A1214     214.841  97.184  31.553  1.00 79.40      A16S
ATOM  25599  O5* C   A1214     213.107  98.925  31.020  1.00 76.51      A16S
ATOM  25600  C5* C   A1214     214.100  99.641  30.273  1.00 76.51      A16S
ATOM  25601  C4* C   A1214     213.518 100.883  29.648  1.00 76.51      A16S
ATOM  25602  O4* C   A1214     212.492 100.521  28.694  1.00 76.51      A16S
ATOM  25603  C1* C   A1214     211.340 101.299  28.925  1.00 76.51      A16S
ATOM  25604  N1  C   A1214     210.148 100.526  28.529  1.00 79.40      A16S
ATOM  25605  C6  C   A1214     210.175  99.159  28.509  1.00 79.40      A16S
ATOM  25606  C2  C   A1214     208.982 101.216  28.137  1.00 79.40      A16S
ATOM  25607  O2  C   A1214     208.950 102.454  28.217  1.00 79.40      A16S
ATOM  25608  N3  C   A1214     207.919 100.511  27.692  1.00 79.40      A16S
ATOM  25609  C4  C   A1214     207.973  99.176  27.650  1.00 79.40      A16S
ATOM  25610  N4  C   A1214     206.908  98.519  27.184  1.00 79.40      A16S
ATOM  25611  C5  C   A1214     209.123  98.453  28.081  1.00 79.40      A16S
ATOM  25612  C2* C   A1214     211.409 101.723  30.387  1.00 76.51      A16S
ATOM  25613  O2* C   A1214     210.644 102.900  30.555  1.00 76.51      A16S
ATOM  25614  C3* C   A1214     212.913 101.934  30.570  1.00 76.51      A16S
ATOM  25615  O3* C   A1214     213.271 103.213  30.050  1.00 76.51      A16S
ATOM  25616  P   G   A1215     214.609 103.948  30.563  1.00 84.24      A16S
ATOM  25617  O1P G   A1215     215.015 104.933  29.521  1.00 85.11      A16S
ATOM  25618  O2P G   A1215     215.579 102.907  31.006  1.00 85.11      A16S
ATOM  25619  O5* G   A1215     214.128 104.774  31.836  1.00 84.24      A16S
ATOM  25620  C5* G   A1215     213.171 105.853  31.725  1.00 84.24      A16S
ATOM  25621  C4* G   A1215     212.968 106.486  33.082  1.00 84.24      A16S
ATOM  25622  O4* G   A1215     212.501 105.456  33.995  1.00 84.24      A16S
ATOM  25623  C1* G   A1215     213.200 105.538  35.226  1.00 84.24      A16S
ATOM  25624  N9  G   A1215     214.011 104.327  35.348  1.00 85.11      A16S
ATOM  25625  C4  G   A1215     214.925 104.023  36.329  1.00 85.11      A16S
ATOM  25626  N3  G   A1215     215.263 104.807  37.373  1.00 85.11      A16S
ATOM  25627  C2  G   A1215     216.147 104.217  38.167  1.00 85.11      A16S
ATOM  25628  N2  G   A1215     216.598 104.853  39.261  1.00 85.11      A16S
ATOM  25629  N1  G   A1215     216.657 102.959  37.945  1.00 85.11      A16S
ATOM  25630  C6  G   A1215     216.324 102.139  36.872  1.00 85.11      A16S
ATOM  25631  O6  G   A1215     216.841 101.019  36.761  1.00 85.11      A16S
ATOM  25632  C5  G   A1215     215.382 102.757  36.022  1.00 85.11      A16S
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ATOM  25633  N7  G  A1215     214.785 102.284  34.865  1.00 85.11      A16S
ATOM  25634  C8  G  A1215     213.987 103.247  34.499  1.00 85.11      A16S
ATOM  25635  C2* G  A1215     214.004 106.835  35.204  1.00 84.24      A16S
ATOM  25636  O2* G  A1215     213.221 107.883  35.748  1.00 84.24      A16S
ATOM  25637  C3* G  A1215     214.255 106.995  33.711  1.00 84.24      A16S
ATOM  25638  O3* G  A1215     214.563 108.323  33.321  1.00 84.24      A16S
ATOM  25639  P   G  A1216     216.089 108.708  33.014  1.00 89.90      A16S
ATOM  25640  O1P G  A1216     216.147 110.183  32.827  1.00 70.65      A16S
ATOM  25641  O2P G  A1216     216.588 107.805  31.949  1.00 70.65      A16S
ATOM  25642  O5* G  A1216     216.860 108.312  34.350  1.00 89.90      A16S
ATOM  25643  C5* G  A1216     216.562 108.982  35.580  1.00 89.90      A16S
ATOM  25644  C4* G  A1216     217.611 108.681  36.618  1.00 89.90      A16S
ATOM  25645  O4* G  A1216     217.473 107.328  37.113  1.00 89.90      A16S
ATOM  25646  C1* G  A1216     218.724 106.890  37.605  1.00 89.90      A16S
ATOM  25647  N9  G  A1216     218.999 105.550  37.101  1.00 70.65      A16S
ATOM  25648  C4  G  A1216     219.920 104.666  37.611  1.00 70.65      A16S
ATOM  25649  N3  G  A1216     220.747 104.894  38.651  1.00 70.65      A16S
ATOM  25650  C2  G  A1216     221.514 103.845  38.913  1.00 70.65      A16S
ATOM  25651  N2  G  A1216     222.396 103.902  39.920  1.00 70.65      A16S
ATOM  25652  N1  G  A1216     221.469 102.669  38.208  1.00 70.65      A16S
ATOM  25653  C6  G  A1216     220.629 102.415  37.133  1.00 70.65      A16S
ATOM  25654  O6  G  A1216     220.668 101.322  36.569  1.00 70.65      A16S
ATOM  25655  C5  G  A1216     219.804 103.531  36.840  1.00 70.65      A16S
ATOM  25656  N7  G  A1216     218.842 103.701  35.857  1.00 70.65      A16S
ATOM  25657  C8  G  A1216     218.395 104.914  36.047  1.00 70.65      A16S
ATOM  25658  C2* G  A1216     219.777 107.938  37.240  1.00 89.90      A16S
ATOM  25659  O2* G  A1216     220.069 108.680  38.408  1.00 89.90      A16S
ATOM  25660  C3* G  A1216     219.057 108.762  36.173  1.00 89.90      A16S
ATOM  25661  O3* G  A1216     219.502 110.112  36.136  1.00 89.90      A16S
ATOM  25662  P   C  A1217     220.812 110.494  35.286  1.00 81.10      A16S
ATOM  25663  O1P C  A1217     220.925 111.981  35.315  1.00 70.47      A16S
ATOM  25664  O2P C  A1217     220.757 109.789  33.983  1.00 70.47      A16S
ATOM  25665  O5* C  A1217     222.001 109.848  36.130  1.00 81.10      A16S
ATOM  25666  C5* C  A1217     222.254 110.304  37.471  1.00 81.10      A16S
ATOM  25667  C4* C  A1217     223.384 109.533  38.111  1.00 81.10      A16S
ATOM  25668  O4* C  A1217     222.978 108.189  38.462  1.00 81.10      A16S
ATOM  25669  C1* C  A1217     224.116 107.347  38.467  1.00 81.10      A16S
ATOM  25670  N1  C  A1217     223.873 106.196  37.585  1.00 70.47      A16S
ATOM  25671  C6  C  A1217     222.934 106.252  36.592  1.00 70.47      A16S
ATOM  25672  C2  C  A1217     224.630 105.034  37.775  1.00 70.47      A16S
ATOM  25673  O2  C  A1217     225.479 105.010  38.677  1.00 70.47      A16S
ATOM  25674  N3  C  A1217     224.420 103.972  36.969  1.00 70.47      A16S
ATOM  25675  C4  C  A1217     223.502 104.038  36.004  1.00 70.47      A16S
ATOM  25676  N4  C  A1217     223.327 102.967  35.233  1.00 70.47      A16S
ATOM  25677  C5  C  A1217     222.720 105.206  35.786  1.00 70.47      A16S
ATOM  25678  C2* C  A1217     225.318 108.180  38.022  1.00 81.10      A16S
ATOM  25679  O2* C  A1217     226.013 108.615  39.168  1.00 81.10      A16S
ATOM  25680  C3* C  A1217     224.647 109.339  37.301  1.00 81.10      A16S
ATOM  25681  O3* C  A1217     225.456 110.500  37.313  1.00 81.10      A16S
ATOM  25682  P   C  A1218     226.389 110.816  36.045  1.00 68.83      A16S
ATOM  25683  O1P C  A1218     227.055 112.128  36.281  1.00 77.71      A16S
ATOM  25684  O2P C  A1218     225.577 110.618  34.811  1.00 77.71      A16S
ATOM  25685  O5* C  A1218     227.495 109.675  36.125  1.00 68.83      A16S
ATOM  25686  C5* C  A1218     228.368 109.621  37.248  1.00 68.83      A16S
ATOM  25687  C4* C  A1218     229.160 108.348  37.240  1.00 68.83      A16S
ATOM  25688  O4* C  A1218     228.264 107.220  37.169  1.00 68.83      A16S
ATOM  25689  C1* C  A1218     228.951 106.122  36.617  1.00 68.83      A16S
ATOM  25690  N1  C  A1218     228.091 105.473  35.617  1.00 77.71      A16S
ATOM  25691  C6  C  A1218     227.166 106.180  34.901  1.00 77.71      A16S
ATOM  25692  C2  C  A1218     228.243 104.104  35.409  1.00 77.71      A16S
ATOM  25693  O2  C  A1218     229.085 103.494  36.074  1.00 77.71      A16S
ATOM  25694  N3  C  A1218     227.474 103.480  34.496  1.00 77.71      A16S
ATOM  25695  C4  C  A1218     226.578 104.173  33.798  1.00 77.71      A16S
ATOM  25696  N4  C  A1218     225.846 103.512  32.900  1.00 77.71      A16S
ATOM  25697  C5  C  A1218     226.394 105.575  33.989  1.00 77.71      A16S
ATOM  25698  C2* C  A1218     230.303 106.615  36.090  1.00 68.83      A16S
ATOM  25699  O2* C  A1218     231.315 106.173  36.974  1.00 68.83      A16S
ATOM  25700  C3* C  A1218     230.110 108.133  36.079  1.00 68.83      A16S
ATOM  25701  O3* C  A1218     231.320 108.846  36.329  1.00 68.83      A16S
ATOM  25702  P   U  A1219     232.254 109.300  35.107  1.00 72.18      A16S
ATOM  25703  O1P U  A1219     233.298 110.184  35.673  1.00 79.92      A16S
ATOM  25704  O2P U  A1219     231.382 109.816  34.025  1.00 79.92      A16S
ATOM  25705  O5* U  A1219     232.945 107.931  34.665  1.00 72.18      A16S
ATOM  25706  C5* U  A1219     233.931 107.306  35.512  1.00 72.18      A16S
ATOM  25707  C4* U  A1219     234.386 105.976  34.939  1.00 72.18      A16S
ATOM  25708  O4* U  A1219     233.356 104.969  35.119  1.00 72.18      A16S
ATOM  25709  C1* U  A1219     233.395 104.045  34.037  1.00 72.18      A16S
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ATOM  33485  O   SER B 124     190.080 171.279   2.079  1.00145.55      BS2
ATOM  33486  N   PRO B 125     190.006 171.358   4.328  1.00200.96      BS2
ATOM  33487  CD  PRO B 125     189.359 171.433   5.652  1.00143.36      BS2
ATOM  33488  CA  PRO B 125     191.459 171.485   4.455  1.00200.96      BS2
ATOM  33489  CB  PRO B 125     191.631 171.907   5.911  1.00143.36      BS2
ATOM  33490  CG  PRO B 125     190.512 171.172   6.592  1.00143.36      BS2
ATOM  33491  C   PRO B 125     192.145 170.157   4.152  1.00200.96      BS2
ATOM  33492  O   PRO B 125     193.374 170.062   4.153  1.00200.96      BS2
ATOM  33493  N   GLU B 126     191.338 169.136   3.882  1.00149.72      BS2
ATOM  33494  CA  GLU B 126     191.855 167.805   3.600  1.00149.72      BS2
ATOM  33495  CB  GLU B 126     190.888 166.750   4.147  1.00200.96      BS2
ATOM  33496  CG  GLU B 126     190.664 166.840   5.651  1.00200.96      BS2
ATOM  33497  CD  GLU B 126     189.829 165.694   6.189  1.00200.96      BS2
ATOM  33498  OE1 GLU B 126     188.666 165.551   5.756  1.00200.96      BS2
ATOM  33499  OE2 GLU B 126     190.336 164.936   7.044  1.00200.96      BS2
ATOM  33500  C   GLU B 126     192.142 167.524   2.126  1.00149.72      BS2
ATOM  33501  O   GLU B 126     192.736 166.493   1.797  1.00149.72      BS2
ATOM  33502  N   ILE B 127     191.725 168.430   1.242  1.00112.48      BS2
ATOM  33503  CA  ILE B 127     191.961 168.248  -0.192  1.00112.48      BS2
ATOM  33504  CB  ILE B 127     191.477 169.457  -1.018  1.00142.95      BS2
ATOM  33505  CG2 ILE B 127     191.456 169.094  -2.502  1.00142.95      BS2
ATOM  33506  CG1 ILE B 127     190.086 169.892  -0.566  1.00142.95      BS2
ATOM  33507  CD1 ILE B 127     189.649 171.199  -1.187  1.00142.95      BS2
ATOM  33508  C   ILE B 127     193.459 168.097  -0.459  1.00112.48      BS2
ATOM  33509  O   ILE B 127     193.890 167.199  -1.184  1.00112.48      BS2
ATOM  33510  N   GLU B 128     194.242 168.995   0.130  1.00137.76      BS2
ATOM  33511  CA  GLU B 128     195.687 168.982  -0.036  1.00137.76      BS2
ATOM  33512  CB  GLU B 128     196.240 170.408   0.031  1.00151.64      BS2
ATOM  33513  CG  GLU B 128     195.681 171.363  -1.015  1.00151.64      BS2
ATOM  33514  CD  GLU B 128     194.217 171.700  -0.793  1.00151.64      BS2
ATOM  33515  OE1 GLU B 128     193.866 172.144   0.324  1.00151.64      BS2
ATOM  33516  OE2 GLU B 128     193.419 171.529  -1.742  1.00151.64      BS2
ATOM  33517  C   GLU B 128     196.359 168.127   1.031  1.00137.76      BS2
ATOM  33518  O   GLU B 128     197.275 168.581   1.716  1.00137.76      BS2
ATOM  33519  N   GLU B 129     195.897 166.892   1.177  1.00172.98      BS2
ATOM  33520  CA  GLU B 129     196.475 165.978   2.153  1.00172.98      BS2
ATOM  33521  CB  GLU B 129     195.559 165.850   3.368  1.00200.96      BS2
ATOM  33522  CG  GLU B 129     195.329 167.175   4.078  1.00200.96      BS2
ATOM  33523  CD  GLU B 129     194.702 167.006   5.444  1.00200.96      BS2
ATOM  33524  OE1 GLU B 129     193.620 166.390   5.532  1.00200.96      BS2
ATOM  33525  OE2 GLU B 129     195.292 167.491   6.433  1.00200.96      BS2
ATOM  33526  C   GLU B 129     196.701 164.623   1.496  1.00172.98      BS2
ATOM  33527  O   GLU B 129     195.900 164.189   0.664  1.00172.98      BS2
ATOM  33528  N   ARG B 130     197.795 163.964   1.873  1.00159.41      BS2
ATOM  33529  CA  ARG B 130     198.165 162.675   1.297  1.00159.41      BS2
ATOM  33530  CB  ARG B 130     196.977 161.707   1.310  1.00200.27      BS2
ATOM  33531  CG  ARG B 130     196.691 161.063   2.663  1.00200.27      BS2
ATOM  33532  CD  ARG B 130     197.746 160.020   3.028  1.00200.27      BS2
ATOM  33533  NE  ARG B 130     197.324 159.181   4.149  1.00200.27      BS2
ATOM  33534  CZ  ARG B 130     197.983 158.108   4.575  1.00200.27      BS2
ATOM  33535  NH1 ARG B 130     199.105 157.733   3.977  1.00200.27      BS2
ATOM  33536  NH2 ARG B 130     197.517 157.404   5.598  1.00200.27      BS2
ATOM  33537  C   ARG B 130     198.626 162.925  -0.139  1.00159.41      BS2
ATOM  33538  O   ARG B 130     198.043 163.744  -0.856  1.00159.41      BS2
ATOM  33539  N   PRO B 131     199.676 162.214  -0.580  1.00200.96      BS2
ATOM  33540  CD  PRO B 131     200.176 160.961   0.010  1.00132.99      BS2
ATOM  33541  CA  PRO B 131     200.200 162.386  -1.939  1.00200.96      BS2
ATOM  33542  CB  PRO B 131     201.192 161.236  -2.070  1.00132.99      BS2
ATOM  33543  CG  PRO B 131     200.573 160.175  -1.216  1.00132.99      BS2
ATOM  33544  C   PRO B 131     199.103 162.325  -2.988  1.00200.96      BS2
ATOM  33545  O   PRO B 131     198.023 161.794  -2.732  1.00200.96      BS2
ATOM  33546  N   LYS B 132     199.375 162.871  -4.169  1.00156.00      BS2
ATOM  33547  CA  LYS B 132     198.385 162.847  -5.234  1.00156.00      BS2
ATOM  33548  CB  LYS B 132     198.891 163.599  -6.467  1.00109.22      BS2
ATOM  33549  CG  LYS B 132     198.926 165.103  -6.282  1.00109.22      BS2
ATOM  33550  CD  LYS B 132     199.098 165.814  -7.608  1.00109.22      BS2
ATOM  33551  CE  LYS B 132     198.990 167.320  -7.443  1.00109.22      BS2
ATOM  33552  NZ  LYS B 132     199.128 168.035  -8.746  1.00109.22      BS2
ATOM  33553  C   LYS B 132     198.017 161.415  -5.601  1.00156.00      BS2
ATOM  33554  O   LYS B 132     197.099 161.187  -6.387  1.00156.00      BS2
ATOM  33555  N   LYS B 133     198.738 160.454  -5.026  1.00178.39      BS2
ATOM  33556  CA  LYS B 133     198.466 159.042  -5.275  1.00178.39      BS2
ATOM  33557  CB  LYS B 133     199.290 158.158  -4.334  1.00192.75      BS2
ATOM  33558  CG  LYS B 133     200.794 158.283  -4.490  1.00192.75      BS2
ATOM  33559  CD  LYS B 133     201.515 157.332  -3.547  1.00192.75      BS2
ATOM  33560  CE  LYS B 133     203.024 157.438  -3.694  1.00192.75      BS2
ATOM  33561  NZ  LYS B 133     203.736 156.521  -2.760  1.00192.75      BS2
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ATOM  33562  C   LYS B 133     196.986 158.819  -5.002  1.00178.39      BS2
ATOM  33563  O   LYS B 133     196.267 158.246  -5.818  1.00178.39      BS2
ATOM  33564  N   GLU B 134     196.547 159.285  -3.839  1.00200.96      BS2
ATOM  33565  CA  GLU B 134     195.156 159.174  -3.420  1.00200.96      BS2
ATOM  33566  CB  GLU B 134     195.085 159.032  -1.898  1.00200.96      BS2
ATOM  33567  CG  GLU B 134     195.822 157.817  -1.353  1.00200.96      BS2
ATOM  33568  CD  GLU B 134     196.137 157.939   0.126  1.00200.96      BS2
ATOM  33569  OE1 GLU B 134     196.977 158.792   0.482  1.00200.96      BS2
ATOM  33570  OE2 GLU B 134     195.546 157.187   0.930  1.00200.96      BS2
ATOM  33571  C   GLU B 134     194.453 160.455  -3.852  1.00200.96      BS2
ATOM  33572  O   GLU B 134     193.253 160.467  -4.130  1.00200.96      BS2
ATOM  33573  N   GLN B 135     195.232 161.531  -3.909  1.00111.06      BS2
ATOM  33574  CA  GLN B 135     194.743 162.845  -4.295  1.00111.06      BS2
ATOM  33575  CB  GLN B 135     195.777 163.903  -3.885  1.00172.48      BS2
ATOM  33576  CG  GLN B 135     195.411 165.349  -4.168  1.00172.48      BS2
ATOM  33577  CD  GLN B 135     196.436 166.314  -3.600  1.00172.48      BS2
ATOM  33578  OE1 GLN B 135     197.638 166.163  -3.823  1.00172.48      BS2
ATOM  33579  NE2 GLN B 135     195.966 167.312  -2.862  1.00172.48      BS2
ATOM  33580  C   GLN B 135     194.486 162.878  -5.799  1.00111.06      BS2
ATOM  33581  O   GLN B 135     194.744 163.875  -6.467  1.00111.06      BS2
ATOM  33582  N   VAL B 136     193.979 161.764  -6.315  1.00140.01      BS2
ATOM  33583  CA  VAL B 136     193.652 161.608  -7.729  1.00140.01      BS2
ATOM  33584  CB  VAL B 136     194.900 161.270  -8.579  1.00169.06      BS2
ATOM  33585  CG1 VAL B 136     194.477 160.757  -9.950  1.00169.06      BS2
ATOM  33586  CG2 VAL B 136     195.768 162.507  -8.741  1.00169.06      BS2
ATOM  33587  C   VAL B 136     192.656 160.462  -7.837  1.00140.01      BS2
ATOM  33588  O   VAL B 136     191.702 160.527  -8.613  1.00140.01      BS2
ATOM  33589  N   ARG B 137     192.886 159.413  -7.051  1.00138.33      BS2
ATOM  33590  CA  ARG B 137     191.996 158.263  -7.040  1.00138.33      BS2
ATOM  33591  CB  ARG B 137     192.460 157.233  -6.014  1.00176.11      BS2
ATOM  33592  CG  ARG B 137     193.895 156.798  -6.190  1.00176.11      BS2
ATOM  33593  CD  ARG B 137     194.245 155.676  -5.234  1.00176.11      BS2
ATOM  33594  NE  ARG B 137     193.856 155.986  -3.861  1.00176.11      BS2
ATOM  33595  CZ  ARG B 137     194.046 155.172  -2.828  1.00176.11      BS2
ATOM  33596  NH1 ARG B 137     194.624 153.991  -3.006  1.00176.11      BS2
ATOM  33597  NH2 ARG B 137     193.652 155.534  -1.614  1.00176.11      BS2
ATOM  33598  C   ARG B 137     190.627 158.790  -6.649  1.00138.33      BS2
ATOM  33599  O   ARG B 137     189.601 158.175  -6.937  1.00138.33      BS2
ATOM  33600  N   LEU B 138     190.629 159.941  -5.982  1.00145.89      BS2
ATOM  33601  CA  LEU B 138     189.398 160.586  -5.556  1.00145.89      BS2
ATOM  33602  CB  LEU B 138     189.589 161.282  -4.213  1.00 91.05      BS2
ATOM  33603  CG  LEU B 138     190.393 160.548  -3.142  1.00 91.05      BS2
ATOM  33604  CD1 LEU B 138     190.089 161.189  -1.797  1.00 91.05      BS2
ATOM  33605  CD2 LEU B 138     190.041 159.066  -3.113  1.00 91.05      BS2
ATOM  33606  C   LEU B 138     189.054 161.621  -6.608  1.00145.89      BS2
ATOM  33607  O   LEU B 138     187.918 161.690  -7.077  1.00145.89      BS2
ATOM  33608  N   LYS B 139     190.049 162.425  -6.976  1.00105.12      BS2
ATOM  33609  CA  LYS B 139     189.861 163.458  -7.984  1.00105.12      BS2
ATOM  33610  CB  LYS B 139     191.210 163.973  -8.500  1.00173.04      BS2
ATOM  33611  CG  LYS B 139     191.985 164.832  -7.506  1.00173.04      BS2
ATOM  33612  CD  LYS B 139     193.143 165.556  -8.186  1.00173.04      BS2
ATOM  33613  CE  LYS B 139     193.893 166.463  -7.214  1.00173.04      BS2
ATOM  33614  NZ  LYS B 139     193.023 167.504  -6.598  1.00173.04      BS2
ATOM  33615  C   LYS B 139     189.053 162.899  -9.142  1.00105.12      BS2
ATOM  33616  O   LYS B 139     188.223 163.595  -9.718  1.00105.12      BS2
ATOM  33617  N   HIS B 140     189.297 161.634  -9.471  1.00156.62      BS2
ATOM  33618  CA  HIS B 140     188.585 160.975 -10.556  1.00156.62      BS2
ATOM  33619  CB  HIS B 140     189.534 160.080 -11.353  1.00183.98      BS2
ATOM  33620  CG  HIS B 140     190.179 160.771 -12.512  1.00183.98      BS2
ATOM  33621  CD2 HIS B 140     191.481 160.969 -12.822  1.00183.98      BS2
ATOM  33622  ND1 HIS B 140     189.450 161.353 -13.527  1.00183.98      BS2
ATOM  33623  CE1 HIS B 140     190.276 161.881 -14.412  1.00183.98      BS2
ATOM  33624  NE2 HIS B 140     191.514 161.662 -14.008  1.00183.98      BS2
ATOM  33625  C   HIS B 140     187.404 160.151 -10.068  1.00156.62      BS2
ATOM  33626  O   HIS B 140     186.403 160.022 -10.772  1.00156.62      BS2
ATOM  33627  N   GLU B 141     187.516 159.588  -8.868  1.00101.87      BS2
ATOM  33628  CA  GLU B 141     186.429 158.781  -8.332  1.00101.87      BS2
ATOM  33629  CB  GLU B 141     186.711 158.362  -6.894  1.00 84.53      BS2
ATOM  33630  CG  GLU B 141     185.931 157.134  -6.481  1.00 84.53      BS2
ATOM  33631  CD  GLU B 141     185.953 156.901  -4.988  1.00 84.53      BS2
ATOM  33632  OE1 GLU B 141     185.290 157.671  -4.264  1.00 84.53      BS2
ATOM  33633  OE2 GLU B 141     186.631 155.957  -4.533  1.00 84.53      BS2
ATOM  33634  C   GLU B 141     185.153 159.605  -8.374  1.00101.87      BS2
ATOM  33635  O   GLU B 141     184.078 159.084  -8.654  1.00101.87      BS2
ATOM  33636  N   LEU B 142     185.283 160.899  -8.098  1.00 90.87      BS2
ATOM  33637  CA  LEU B 142     184.136 161.793  -8.120  1.00 90.87      BS2
ATOM  33638  CB  LEU B 142     184.443 163.084  -7.348  1.00 75.57      BS2
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ATOM  33639  CG  LEU B 142     183.259 163.989  -6.966  1.00 75.57       BS2
ATOM  33640  CD1 LEU B 142     183.732 165.039  -5.986  1.00 75.57       BS2
ATOM  33641  CD2 LEU B 142     182.658 164.645  -8.195  1.00 75.57       BS2
ATOM  33642  C   LEU B 142     183.802 162.117  -9.572  1.00 90.87       BS2
ATOM  33643  O   LEU B 142     182.633 162.201  -9.948  1.00 90.87       BS2
ATOM  33644  N   GLU B 143     184.836 162.295 -10.387  1.00101.44       BS2
ATOM  33645  CA  GLU B 143     184.640 162.605 -11.796  1.00101.44       BS2
ATOM  33646  CB  GLU B 143     185.955 162.475 -12.573  1.00200.96       BS2
ATOM  33647  CG  GLU B 143     187.066 163.417 -12.147  1.00200.96       BS2
ATOM  33648  CD  GLU B 143     186.708 164.879 -12.323  1.00200.96       BS2
ATOM  33649  OE1 GLU B 143     186.369 165.280 -13.456  1.00200.96       BS2
ATOM  33650  OE2 GLU B 143     186.775 165.628 -11.325  1.00200.96       BS2
ATOM  33651  C   GLU B 143     183.625 161.649 -12.406  1.00101.44       BS2
ATOM  33652  O   GLU B 143     182.676 162.078 -13.066  1.00101.44       BS2
ATOM  33653  N   ARG B 144     183.830 160.353 -12.172  1.00 90.84       BS2
ATOM  33654  CA  ARG B 144     182.953 159.329 -12.724  1.00 90.84       BS2
ATOM  33655  CB  ARG B 144     183.532 157.923 -12.470  1.00148.00       BS2
ATOM  33656  CG  ARG B 144     183.349 157.365 -11.062  1.00148.00       BS2
ATOM  33657  CD  ARG B 144     182.173 156.379 -10.979  1.00148.00       BS2
ATOM  33658  NE  ARG B 144     182.469 155.066 -11.561  1.00148.00       BS2
ATOM  33659  CZ  ARG B 144     181.627 154.030 -11.562  1.00148.00       BS2
ATOM  33660  NH1 ARG B 144     180.423 154.137 -11.014  1.00148.00       BS2
ATOM  33661  NH2 ARG B 144     181.994 152.879 -12.111  1.00148.00       BS2
ATOM  33662  C   ARG B 144     181.539 159.433 -12.176  1.00 90.84       BS2
ATOM  33663  O   ARG B 144     180.585 159.529 -12.946  1.00 90.84       BS2
ATOM  33664  N   LEU B 145     181.407 159.433 -10.852  1.00 77.15       BS2
ATOM  33665  CA  LEU B 145     180.099 159.518 -10.222  1.00 77.15       BS2
ATOM  33666  CB  LEU B 145     180.250 159.819  -8.747  1.00 38.63       BS2
ATOM  33667  CG  LEU B 145     181.361 159.031  -8.060  1.00 38.63       BS2
ATOM  33668  CD1 LEU B 145     181.395 159.392  -6.596  1.00 38.63       BS2
ATOM  33669  CD2 LEU B 145     181.139 157.550  -8.211  1.00 38.63       BS2
ATOM  33670  C   LEU B 145     179.258 160.600 -10.873  1.00 77.15       BS2
ATOM  33671  O   LEU B 145     178.178 160.322 -11.389  1.00 77.15       BS2
ATOM  33672  N   GLN B 146     179.751 161.832 -10.864  1.00 73.97       BS2
ATOM  33673  CA  GLN B 146     179.008 162.925 -11.471  1.00 73.97       BS2
ATOM  33674  CB  GLN B 146     179.805 164.233 -11.407  1.00196.13       BS2
ATOM  33675  CG  GLN B 146     179.731 164.948 -10.065  1.00196.13       BS2
ATOM  33676  CD  GLN B 146     180.106 166.416 -10.167  1.00196.13       BS2
ATOM  33677  OE1 GLN B 146     179.485 167.176 -10.913  1.00196.13       BS2
ATOM  33678  NE2 GLN B 146     181.121 166.824  -9.416  1.00196.13       BS2
ATOM  33679  C   GLN B 146     178.622 162.637 -12.921  1.00 73.97       BS2
ATOM  33680  O   GLN B 146     177.829 163.376 -13.515  1.00 73.97       BS2
ATOM  33681  N   LYS B 147     179.178 161.572 -13.494  1.00 77.12       BS2
ATOM  33682  CA  LYS B 147     178.860 161.214 -14.873  1.00 77.12       BS2
ATOM  33683  CB  LYS B 147     179.997 160.409 -15.507  1.00200.96       BS2
ATOM  33684  CG  LYS B 147     181.353 161.084 -15.470  1.00200.96       BS2
ATOM  33685  CD  LYS B 147     182.427 160.154 -16.014  1.00200.96       BS2
ATOM  33686  CE  LYS B 147     183.811 160.770 -15.896  1.00200.96       BS2
ATOM  33687  NZ  LYS B 147     184.868 159.841 -16.386  1.00200.96       BS2
ATOM  33688  C   LYS B 147     177.595 160.372 -14.892  1.00 77.12       BS2
ATOM  33689  O   LYS B 147     176.673 160.639 -15.664  1.00 77.12       BS2
ATOM  33690  N   TYR B 148     177.559 159.367 -14.016  1.00 85.02       BS2
ATOM  33691  CA  TYR B 148     176.436 158.433 -13.913  1.00 85.02       BS2
ATOM  33692  CB  TYR B 148     176.969 157.037 -13.556  1.00 90.60       BS2
ATOM  33693  CG  TYR B 148     177.982 156.497 -14.553  1.00 90.60       BS2
ATOM  33694  CD1 TYR B 148     179.160 155.884 -14.120  1.00 90.60       BS2
ATOM  33695  CE1 TYR B 148     180.109 155.431 -15.030  1.00 90.60       BS2
ATOM  33696  CD2 TYR B 148     177.776 156.633 -15.928  1.00 90.60       BS2
ATOM  33697  CE2 TYR B 148     178.717 156.183 -16.845  1.00 90.60       BS2
ATOM  33698  CZ  TYR B 148     179.883 155.587 -16.393  1.00 90.60       BS2
ATOM  33699  OH  TYR B 148     180.829 155.173 -17.308  1.00 90.60       BS2
ATOM  33700  C   TYR B 148     175.354 158.842 -12.913  1.00 85.02       BS2
ATOM  33701  O   TYR B 148     174.185 158.974 -13.269  1.00 85.02       BS2
ATOM  33702  N   LEU B 149     175.746 159.033 -11.661  1.00 77.94       BS2
ATOM  33703  CA  LEU B 149     174.802 159.424 -10.624  1.00 77.94       BS2
ATOM  33704  CB  LEU B 149     175.320 158.982  -9.260  1.00 83.66       BS2
ATOM  33705  CG  LEU B 149     175.968 157.602  -9.242  1.00 83.66       BS2
ATOM  33706  CD1 LEU B 149     176.531 157.323  -7.852  1.00 83.66       BS2
ATOM  33707  CD2 LEU B 149     174.942 156.550  -9.654  1.00 83.66       BS2
ATOM  33708  C   LEU B 149     174.605 160.935 -10.601  1.00 77.94       BS2
ATOM  33709  O   LEU B 149     174.452 161.517  -9.533  1.00 77.94       BS2
ATOM  33710  N   SER B 150     174.616 161.574 -11.766  1.00109.63       BS2
ATOM  33711  CA  SER B 150     174.444 163.023 -11.824  1.00109.63       BS2
ATOM  33712  CB  SER B 150     174.845 163.564 -13.200  1.00134.67       BS2
ATOM  33713  OG  SER B 150     173.920 163.169 -14.198  1.00134.67       BS2
ATOM  33714  C   SER B 150     173.002 163.408 -11.534  1.00109.63       BS2
ATOM  33715  O   SER B 150     172.741 164.398 -10.853  1.00109.63       BS2
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ATOM  33716  N   GLY B 151     172.068 162.621 -12.058  1.00120.66       BS2
ATOM  33717  CA  GLY B 151     170.660 162.895 -11.842  1.00120.66       BS2
ATOM  33718  C   GLY B 151     170.013 161.870 -10.939  1.00120.66       BS2
ATOM  33719  O   GLY B 151     168.974 162.117 -10.326  1.00120.66       BS2
ATOM  33720  N   PHE B 152     170.632 160.702 -10.863  1.00 62.28       BS2
ATOM  33721  CA  PHE B 152     170.124 159.649 -10.014  1.00 62.28       BS2
ATOM  33722  CB  PHE B 152     170.899 158.362 -10.274  1.00 56.11       BS2
ATOM  33723  CG  PHE B 152     170.265 157.145  -9.679  1.00 56.11       BS2
ATOM  33724  CD1 PHE B 152     169.062 156.659 -10.184  1.00 56.11       BS2
ATOM  33725  CD2 PHE B 152     170.862 156.492  -8.606  1.00 56.11       BS2
ATOM  33726  CE1 PHE B 152     168.457 155.538  -9.630  1.00 56.11       BS2
ATOM  33727  CE2 PHE B 152     170.272 155.368  -8.039  1.00 56.11       BS2
ATOM  33728  CZ  PHE B 152     169.061 154.888  -8.553  1.00 56.11       BS2
ATOM  33729  C   PHE B 152     170.358 160.118  -8.586  1.00 62.28       BS2
ATOM  33730  O   PHE B 152     169.997 159.443  -7.626  1.00 62.28       BS2
ATOM  33731  N   ARG B 153     170.962 161.295  -8.471  1.00 72.31       BS2
ATOM  33732  CA  ARG B 153     171.301 161.910  -7.191  1.00 72.31       BS2
ATOM  33733  CB  ARG B 153     172.174 163.141  -7.455  1.00173.69       BS2
ATOM  33734  CG  ARG B 153     173.052 163.584  -6.301  1.00173.69       BS2
ATOM  33735  CD  ARG B 153     173.975 164.716  -6.744  1.00173.69       BS2
ATOM  33736  NE  ARG B 153     174.944 165.082  -5.715  1.00173.69       BS2
ATOM  33737  CZ  ARG B 153     174.623 165.553  -4.513  1.00173.69       BS2
ATOM  33738  NH1 ARG B 153     173.350 165.720  -4.179  1.00173.69       BS2
ATOM  33739  NH2 ARG B 153     175.577 165.865  -3.646  1.00173.69       BS2
ATOM  33740  C   ARG B 153     170.061 162.312  -6.394  1.00 72.31       BS2
ATOM  33741  O   ARG B 153     169.994 162.104  -5.178  1.00 72.31       BS2
ATOM  33742  N   LEU B 154     169.086 162.881  -7.097  1.00 77.55       BS2
ATOM  33743  CA  LEU B 154     167.836 163.339  -6.498  1.00 77.55       BS2
ATOM  33744  CB  LEU B 154     166.944 163.954  -7.573  1.00109.10       BS2
ATOM  33745  CG  LEU B 154     167.581 165.061  -8.408  1.00109.10       BS2
ATOM  33746  CD1 LEU B 154     166.557 165.620  -9.390  1.00109.10       BS2
ATOM  33747  CD2 LEU B 154     168.094 166.150  -7.487  1.00109.10       BS2
ATOM  33748  C   LEU B 154     167.040 162.268  -5.757  1.00 77.55       BS2
ATOM  33749  O   LEU B 154     166.548 162.511  -4.655  1.00 77.55       BS2
ATOM  33750  N   LEU B 155     166.896 161.091  -6.358  1.00 91.89       BS2
ATOM  33751  CA  LEU B 155     166.136 160.016  -5.728  1.00 91.89       BS2
ATOM  33752  CB  LEU B 155     166.147 158.762  -6.596  1.00 62.54       BS2
ATOM  33753  CG  LEU B 155     165.019 158.687  -7.619  1.00 62.54       BS2
ATOM  33754  CD1 LEU B 155     165.142 157.406  -8.401  1.00 62.54       BS2
ATOM  33755  CD2 LEU B 155     163.685 158.732  -6.914  1.00 62.54       BS2
ATOM  33756  C   LEU B 155     166.618 159.655  -4.341  1.00 91.89       BS2
ATOM  33757  O   LEU B 155     167.809 159.418  -4.125  1.00 91.89       BS2
ATOM  33758  N   LYS B 156     165.672 159.612  -3.408  1.00 71.56       BS2
ATOM  33759  CA  LYS B 156     165.955 159.263  -2.021  1.00 71.56       BS2
ATOM  33760  CB  LYS B 156     165.625 160.444  -1.105  1.00122.46       BS2
ATOM  33761  CG  LYS B 156     166.517 161.663  -1.310  1.00122.46       BS2
ATOM  33762  CD  LYS B 156     167.769 161.651  -0.426  1.00122.46       BS2
ATOM  33763  CE  LYS B 156     168.688 160.455  -0.680  1.00122.46       BS2
ATOM  33764  NZ  LYS B 156     168.197 159.179  -0.080  1.00122.46       BS2
ATOM  33765  C   LYS B 156     165.125 158.039  -1.631  1.00 71.56       BS2
ATOM  33766  O   LYS B 156     165.247 157.510  -0.527  1.00 71.56       BS2
ATOM  33767  N   ARG B 157     164.279 157.607  -2.561  1.00 67.92       BS2
ATOM  33768  CA  ARG B 157     163.414 156.443  -2.393  1.00 67.92       BS2
ATOM  33769  CB  ARG B 157     162.205 156.801  -1.526  1.00114.63       BS2
ATOM  33770  CG  ARG B 157     161.372 157.946  -2.076  1.00114.63       BS2
ATOM  33771  CD  ARG B 157     160.368 158.488  -1.060  1.00114.63       BS2
ATOM  33772  NE  ARG B 157     159.547 157.439  -0.462  1.00114.63       BS2
ATOM  33773  CZ  ARG B 157     159.864 156.787   0.651  1.00114.63       BS2
ATOM  33774  NH1 ARG B 157     160.984 157.080   1.296  1.00114.63       BS2
ATOM  33775  NH2 ARG B 157     159.067 155.835   1.116  1.00114.63       BS2
ATOM  33776  C   ARG B 157     162.983 156.090  -3.812  1.00 67.92       BS2
ATOM  33777  O   ARG B 157     163.021 156.939  -4.697  1.00 67.92       BS2
ATOM  33778  N   LEU B 158     162.588 154.846  -4.042  1.00 39.50       BS2
ATOM  33779  CA  LEU B 158     162.184 154.431  -5.385  1.00 39.50       BS2
ATOM  33780  CB  LEU B 158     161.597 153.023  -5.339  1.00 59.36       BS2
ATOM  33781  CG  LEU B 158     162.423 151.981  -4.571  1.00 59.36       BS2
ATOM  33782  CD1 LEU B 158     161.879 150.613  -4.898  1.00 59.36       BS2
ATOM  33783  CD2 LEU B 158     163.891 152.044  -4.950  1.00 59.36       BS2
ATOM  33784  C   LEU B 158     161.192 155.387  -6.046  1.00 39.50       BS2
ATOM  33785  O   LEU B 158     160.369 156.002  -5.382  1.00 39.50       BS2
ATOM  33786  N   PRO B 159     161.251 155.516  -7.373  1.00 55.34       BS2
ATOM  33787  CD  PRO B 159     161.870 154.615  -8.357  1.00 71.53       BS2
ATOM  33788  CA  PRO B 159     160.320 156.425  -8.037  1.00 55.34       BS2
ATOM  33789  CB  PRO B 159     160.731 156.323  -9.495  1.00 71.53       BS2
ATOM  33790  CG  PRO B 159     161.032 154.880  -9.613  1.00 71.53       BS2
ATOM  33791  C   PRO B 159     158.895 155.959  -7.827  1.00 55.34       BS2
ATOM  33792  O   PRO B 159     158.658 154.816  -7.426  1.00 55.34       BS2
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ATOM  33793  N   ASP B 160     157.949 156.848  -8.097  1.00 65.84       BS2
ATOM  33794  CA  ASP B 160     156.546 156.514  -7.954  1.00 65.84       BS2
ATOM  33795  CB  ASP B 160     155.760 157.731  -7.473  1.00116.08       BS2
ATOM  33796  CG  ASP B 160     156.162 158.159  -6.073  1.00116.08       BS2
ATOM  33797  OD1 ASP B 160     156.000 157.348  -5.137  1.00116.08       BS2
ATOM  33798  OD2 ASP B 160     156.645 159.299  -5.906  1.00116.08       BS2
ATOM  33799  C   ASP B 160     156.103 156.093  -9.336  1.00 65.84       BS2
ATOM  33800  O   ASP B 160     154.983 155.637  -9.543  1.00 65.84       BS2
ATOM  33801  N   ALA B 161     157.016 156.257 -10.282  1.00 62.02       BS2
ATOM  33802  CA  ALA B 161     156.781 155.892 -11.667  1.00 62.02       BS2
ATOM  33803  CB  ALA B 161     155.698 156.757 -12.277  1.00 31.82       BS2
ATOM  33804  C   ALA B 161     158.086 156.090 -12.409  1.00 62.02       BS2
ATOM  33805  O   ALA B 161     159.031 156.689 -11.885  1.00 62.02       BS2
ATOM  33806  N   ILE B 162     158.136 155.584 -13.632  1.00 63.63       BS2
ATOM  33807  CA  ILE B 162     159.340 155.699 -14.424  1.00 63.63       BS2
ATOM  33808  CB  ILE B 162     160.149 154.370 -14.368  1.00 83.45       BS2
ATOM  33809  CG2 ILE B 162     160.039 153.597 -15.680  1.00 83.45       BS2
ATOM  33810  CG1 ILE B 162     161.608 154.680 -14.048  1.00 83.45       BS2
ATOM  33811  CD1 ILE B 162     162.440 153.456 -13.756  1.00 83.45       BS2
ATOM  33812  C   ILE B 162     158.977 156.076 -15.851  1.00 63.63       BS2
ATOM  33813  O   ILE B 162     158.131 155.438 -16.489  1.00 63.63       BS2
ATOM  33814  N   PHE B 163     159.598 157.146 -16.331  1.00 78.09       BS2
ATOM  33815  CA  PHE B 163     159.346 157.616 -17.678  1.00 78.09       BS2
ATOM  33816  CB  PHE B 163     159.098 159.124 -17.683  1.00 78.04       BS2
ATOM  33817  CG  PHE B 163     158.442 159.632 -18.940  1.00 78.04       BS2
ATOM  33818  CD1 PHE B 163     157.703 160.811 -18.918  1.00 78.04       BS2
ATOM  33819  CD2 PHE B 163     158.573 158.949 -20.144  1.00 78.04       BS2
ATOM  33820  CE1 PHE B 163     157.102 161.301 -20.074  1.00 78.04       BS2
ATOM  33821  CE2 PHE B 163     157.976 159.431 -21.310  1.00 78.04       BS2
ATOM  33822  CZ  PHE B 163     157.239 160.608 -21.276  1.00 78.04       BS2
ATOM  33823  C   PHE B 163     160.551 157.265 -18.529  1.00 78.09       BS2
ATOM  33824  O   PHE B 163     161.579 157.946 -18.506  1.00 78.09       BS2
ATOM  33825  N   VAL B 164     160.400 156.168 -19.262  1.00 57.82       BS2
ATOM  33826  CA  VAL B 164     161.424 155.651 -20.147  1.00 57.82       BS2
ATOM  33827  CB  VAL B 164     161.416 154.116 -20.153  1.00 53.28       BS2
ATOM  33828  CG1 VAL B 164     162.549 153.606 -20.998  1.00 53.28       BS2
ATOM  33829  CG2 VAL B 164     161.516 153.580 -18.734  1.00 53.28       BS2
ATOM  33830  C   VAL B 164     161.131 156.132 -21.555  1.00 57.82       BS2
ATOM  33831  O   VAL B 164     159.967 156.239 -21.960  1.00 57.82       BS2
ATOM  33832  N   VAL B 165     162.188 156.419 -22.302  1.00 90.11       BS2
ATOM  33833  CA  VAL B 165     162.024 156.883 -23.667  1.00 90.11       BS2
ATOM  33834  CB  VAL B 165     163.245 157.652 -24.129  1.00 53.62       BS2
ATOM  33835  CG1 VAL B 165     162.903 158.428 -25.392  1.00 53.62       BS2
ATOM  33836  CG2 VAL B 165     163.699 158.588 -23.023  1.00 53.62       BS2
ATOM  33837  C   VAL B 165     161.799 155.692 -24.581  1.00 90.11       BS2
ATOM  33838  O   VAL B 165     160.726 155.555 -25.170  1.00 90.11       BS2
ATOM  33839  N   ASP B 166     162.812 154.838 -24.704  1.00 82.73       BS2
ATOM  33840  CA  ASP B 166     162.683 153.635 -25.523  1.00 82.73       BS2
ATOM  33841  CB  ASP B 166     163.777 153.571 -26.587  1.00 84.07       BS2
ATOM  33842  CG  ASP B 166     163.704 152.299 -27.410  1.00 84.07       BS2
ATOM  33843  OD1 ASP B 166     162.597 151.728 -27.504  1.00 84.07       BS2
ATOM  33844  OD2 ASP B 166     164.742 151.879 -27.969  1.00 84.07       BS2
ATOM  33845  C   ASP B 166     162.755 152.395 -24.631  1.00 82.73       BS2
ATOM  33846  O   ASP B 166     163.833 152.009 -24.165  1.00 82.73       BS2
ATOM  33847  N   PRO B 167     161.599 151.754 -24.384  1.00 67.64       BS2
ATOM  33848  CD  PRO B 167     160.304 151.991 -25.047  1.00 62.75       BS2
ATOM  33849  CA  PRO B 167     161.530 150.557 -23.541  1.00 67.64       BS2
ATOM  33850  CB  PRO B 167     160.053 150.172 -23.613  1.00 62.75       BS2
ATOM  33851  CG  PRO B 167     159.655 150.628 -24.973  1.00 62.75       BS2
ATOM  33852  C   PRO B 167     162.448 149.441 -24.018  1.00 67.64       BS2
ATOM  33853  O   PRO B 167     163.115 148.789 -23.221  1.00 67.64       BS2
ATOM  33854  N   THR B 168     162.476 149.234 -25.328  1.00 65.27       BS2
ATOM  33855  CA  THR B 168     163.302 148.195 -25.921  1.00 65.27       BS2
ATOM  33856  CB  THR B 168     163.156 148.202 -27.446  1.00 63.54       BS2
ATOM  33857  OG1 THR B 168     161.766 148.290 -27.790  1.00 63.54       BS2
ATOM  33858  CG2 THR B 168     163.738 146.934 -28.038  1.00 63.54       BS2
ATOM  33859  C   THR B 168     164.765 148.412 -25.551  1.00 65.27       BS2
ATOM  33860  O   THR B 168     165.423 147.513 -25.029  1.00 65.27       BS2
ATOM  33861  N   LYS B 169     165.269 149.612 -25.826  1.00 58.54       BS2
ATOM  33862  CA  LYS B 169     166.652 149.950 -25.509  1.00 58.54       BS2
ATOM  33863  CB  LYS B 169     167.001 151.350 -26.037  1.00 66.16       BS2
ATOM  33864  CG  LYS B 169     168.484 151.572 -26.381  1.00 66.16       BS2
ATOM  33865  CD  LYS B 169     169.422 151.082 -25.278  1.00 66.16       BS2
ATOM  33866  CE  LYS B 169     170.373 152.172 -24.799  1.00 66.16       BS2
ATOM  33867  NZ  LYS B 169     171.274 152.689 -25.865  1.00 66.16       BS2
ATOM  33868  C   LYS B 169     166.765 149.926 -23.993  1.00 58.54       BS2
ATOM  33869  O   LYS B 169     167.424 149.061 -23.420  1.00 58.54       BS2
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ATOM  33870  N   GLU B 170     166.110 150.881 -23.347  1.00 81.85       BS2
ATOM  33871  CA  GLU B 170     166.138 150.947 -21.898  1.00 81.85       BS2
ATOM  33872  CB  GLU B 170     165.757 152.351 -21.436  1.00 97.18       BS2
ATOM  33873  CG  GLU B 170     166.922 153.097 -20.813  1.00 97.18       BS2
ATOM  33874  CD  GLU B 170     168.154 153.116 -21.706  1.00 97.18       BS2
ATOM  33875  OE1 GLU B 170     168.124 153.809 -22.748  1.00 97.18       BS2
ATOM  33876  OE2 GLU B 170     169.148 152.433 -21.365  1.00 97.18       BS2
ATOM  33877  C   GLU B 170     165.173 149.909 -21.347  1.00 81.85       BS2
ATOM  33878  O   GLU B 170     164.252 150.220 -20.596  1.00 81.85       BS2
ATOM  33879  N   ALA B 171     165.415 148.659 -21.722  1.00 52.33       BS2
ATOM  33880  CA  ALA B 171     164.570 147.548 -21.316  1.00 52.33       BS2
ATOM  33881  CB  ALA B 171     164.609 146.491 -22.390  1.00 28.33       BS2
ATOM  33882  C   ALA B 171     164.871 146.929 -19.953  1.00 52.33       BS2
ATOM  33883  O   ALA B 171     163.981 146.364 -19.319  1.00 52.33       BS2
ATOM  33884  N   ILE B 172     166.118 147.009 -19.509  1.00 43.61       BS2
ATOM  33885  CA  ILE B 172     166.458 146.463 -18.208  1.00 43.61       BS2
ATOM  33886  CB  ILE B 172     167.975 146.432 -17.978  1.00 66.28       BS2
ATOM  33887  CG2 ILE B 172     168.284 145.993 -16.553  1.00 66.28       BS2
ATOM  33888  CG1 ILE B 172     168.620 145.472 -18.968  1.00 66.28       BS2
ATOM  33889  CD1 ILE B 172     170.009 145.013 -18.561  1.00 66.28       BS2
ATOM  33890  C   ILE B 172     165.811 147.347 -17.143  1.00 43.61       BS2
ATOM  33891  O   ILE B 172     165.478 146.892 -16.046  1.00 43.61       BS2
ATOM  33892  N   ALA B 173     165.637 148.623 -17.465  1.00 68.77       BS2
ATOM  33893  CA  ALA B 173     165.009 149.531 -16.523  1.00 68.77       BS2
ATOM  33894  CB  ALA B 173     164.983 150.931 -17.086  1.00 33.55       BS2
ATOM  33895  C   ALA B 173     163.596 149.011 -16.334  1.00 68.77       BS2
ATOM  33896  O   ALA B 173     163.214 148.588 -15.241  1.00 68.77       BS2
ATOM  33897  N   VAL B 174     162.836 149.028 -17.425  1.00 35.59       BS2
ATOM  33898  CA  VAL B 174     161.458 148.555 -17.417  1.00 35.59       BS2
ATOM  33899  CB  VAL B 174     160.985 148.247 -18.835  1.00 26.34       BS2
ATOM  33900  CG1 VAL B 174     159.613 147.571 -18.790  1.00 26.34       BS2
ATOM  33901  CG2 VAL B 174     160.938 149.528 -19.653  1.00 26.34       BS2
ATOM  33902  C   VAL B 174     161.299 147.290 -16.581  1.00 35.59       BS2
ATOM  33903  O   VAL B 174     160.356 147.156 -15.802  1.00 35.59       BS2
ATOM  33904  N   ARG B 175     162.228 146.361 -16.755  1.00 42.58       BS2
ATOM  33905  CA  ARG B 175     162.205 145.106 -16.023  1.00 42.58       BS2
ATOM  33906  CB  ARG B 175     163.402 144.247 -16.448  1.00 72.98       BS2
ATOM  33907  CG  ARG B 175     163.306 142.763 -16.117  1.00 72.98       BS2
ATOM  33908  CD  ARG B 175     164.516 142.022 -16.672  1.00 72.98       BS2
ATOM  33909  NE  ARG B 175     164.639 142.214 -18.118  1.00 72.98       BS2
ATOM  33910  CZ  ARG B 175     165.792 142.206 -18.784  1.00 72.98       BS2
ATOM  33911  NH1 ARG B 175     166.937 142.015 -18.134  1.00 72.98       BS2
ATOM  33912  NH2 ARG B 175     165.802 142.400 -20.099  1.00 72.98       BS2
ATOM  33913  C   ARG B 175     162.237 145.354 -14.515  1.00 42.58       BS2
ATOM  33914  O   ARG B 175     161.504 144.724 -13.764  1.00 42.58       BS2
ATOM  33915  N   GLU B 176     163.083 146.268 -14.062  1.00 69.15       BS2
ATOM  33916  CA  GLU B 176     163.150 146.531 -12.634  1.00 69.15       BS2
ATOM  33917  CB  GLU B 176     164.380 147.370 -12.297  1.00 82.66       BS2
ATOM  33918  CG  GLU B 176     165.633 146.525 -12.219  1.00 82.66       BS2
ATOM  33919  CD  GLU B 176     166.808 147.254 -11.613  1.00 82.66       BS2
ATOM  33920  OE1 GLU B 176     166.611 147.974 -10.615  1.00 82.66       BS2
ATOM  33921  OE2 GLU B 176     167.934 147.097 -12.128  1.00 82.66       BS2
ATOM  33922  C   GLU B 176     161.879 147.215 -12.179  1.00 69.15       BS2
ATOM  33923  O   GLU B 176     161.346 146.914 -11.105  1.00 69.15       BS2
ATOM  33924  N   ALA B 177     161.393 148.137 -13.000  1.00 49.80       BS2
ATOM  33925  CA  ALA B 177     160.157 148.821 -12.678  1.00 49.80       BS2
ATOM  33926  CB  ALA B 177     159.676 149.635 -13.882  1.00 41.25       BS2
ATOM  33927  C   ALA B 177     159.219 147.655 -12.401  1.00 49.80       BS2
ATOM  33928  O   ALA B 177     158.924 147.347 -11.252  1.00 49.80       BS2
ATOM  33929  N   ARG B 178     158.798 146.993 -13.474  1.00 42.51       BS2
ATOM  33930  CA  ARG B 178     157.925 145.829 -13.402  1.00 42.51       BS2
ATOM  33931  CB  ARG B 178     158.201 144.896 -14.579  1.00 68.79       BS2
ATOM  33932  CG  ARG B 178     157.068 144.770 -15.559  1.00 68.79       BS2
ATOM  33933  CD  ARG B 178     156.846 146.055 -16.298  1.00 68.79       BS2
ATOM  33934  NE  ARG B 178     155.731 145.945 -17.229  1.00 68.79       BS2
ATOM  33935  CZ  ARG B 178     154.501 145.572 -16.884  1.00 68.79       BS2
ATOM  33936  NH1 ARG B 178     154.223 145.261 -15.625  1.00 68.79       BS2
ATOM  33937  NH2 ARG B 178     153.538 145.533 -17.794  1.00 68.79       BS2
ATOM  33938  C   ARG B 178     158.122 145.043 -12.118  1.00 42.51       BS2
ATOM  33939  O   ARG B 178     157.231 144.969 -11.295  1.00 42.51       BS2
ATOM  33940  N   LYS B 179     159.292 144.449 -11.944  1.00 66.70       BS2
ATOM  33941  CA  LYS B 179     159.542 143.659 -10.753  1.00 66.70       BS2
ATOM  33942  CB  LYS B 179     161.016 143.248 -10.696  1.00 53.05       BS2
ATOM  33943  CG  LYS B 179     161.339 142.321  -9.541  1.00 53.05       BS2
ATOM  33944  CD  LYS B 179     162.696 141.656  -9.691  1.00 53.05       BS2
ATOM  33945  CE  LYS B 179     162.677 140.565 -10.748  1.00 53.05       BS2
ATOM  33946  NZ  LYS B 179     161.779 139.423 -10.376  1.00 53.05       BS2
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ATOM  33947  C   LYS B 179     159.124 144.387  -9.471  1.00 66.70       BS2
ATOM  33948  O   LYS B 179     158.683 143.758  -8.505  1.00 66.70       BS2
ATOM  33949  N   LEU B 180     159.236 145.710  -9.464  1.00 53.42       BS2
ATOM  33950  CA  LEU B 180     158.854 146.480  -8.282  1.00 53.42       BS2
ATOM  33951  CB  LEU B 180     159.944 147.499  -7.955  1.00 42.94       BS2
ATOM  33952  CG  LEU B 180     161.247 146.847  -7.486  1.00 42.94       BS2
ATOM  33953  CD1 LEU B 180     162.278 147.910  -7.127  1.00 42.94       BS2
ATOM  33954  CD2 LEU B 180     160.964 145.977  -6.283  1.00 42.94       BS2
ATOM  33955  C   LEU B 180     157.494 147.182  -8.388  1.00 53.42       BS2
ATOM  33956  O   LEU B 180     157.204 148.113  -7.641  1.00 53.42       BS2
ATOM  33957  N   PHE B 181     156.664 146.724  -9.318  1.00103.88       BS2
ATOM  33958  CA  PHE B 181     155.333 147.284  -9.522  1.00103.88       BS2
ATOM  33959  CB  PHE B 181     154.458 147.019  -8.307  1.00 68.90       BS2
ATOM  33960  CG  PHE B 181     154.441 145.589  -7.875  1.00 68.90       BS2
ATOM  33961  CD1 PHE B 181     155.223 145.165  -6.810  1.00 68.90       BS2
ATOM  33962  CD2 PHE B 181     153.620 144.668  -8.512  1.00 68.90       BS2
ATOM  33963  CE1 PHE B 181     155.184 143.839  -6.379  1.00 68.90       BS2
ATOM  33964  CE2 PHE B 181     153.573 143.341  -8.091  1.00 68.90       BS2
ATOM  33965  CZ  PHE B 181     154.357 142.927  -7.020  1.00 68.90       BS2
ATOM  33966  C   PHE B 181     155.324 148.776  -9.805  1.00103.88       BS2
ATOM  33967  O   PHE B 181     154.270 149.410  -9.809  1.00103.88       BS2
ATOM  33968  N   ILE B 182     156.497 149.343 -10.034  1.00 36.73       BS2
ATOM  33969  CA  ILE B 182     156.585 150.761 -10.327  1.00 36.73       BS2
ATOM  33970  CB  ILE B 182     158.053 151.233 -10.268  1.00 24.01       BS2
ATOM  33971  CG2 ILE B 182     158.148 152.704 -10.659  1.00 24.01       BS2
ATOM  33972  CG1 ILE B 182     158.617 150.966  -8.871  1.00 24.01       BS2
ATOM  33973  CD1 ILE B 182     160.081 151.254  -8.724  1.00 24.01       BS2
ATOM  33974  C   ILE B 182     156.018 151.049 -11.721  1.00 36.73       BS2
ATOM  33975  O   ILE B 182     156.520 150.546 -12.734  1.00 36.73       BS2
ATOM  33976  N   PRO B 183     154.955 151.857 -11.794  1.00 47.22       BS2
ATOM  33977  CD  PRO B 183     154.232 152.490 -10.681  1.00 76.05       BS2
ATOM  33978  CA  PRO B 183     154.342 152.193 -13.086  1.00 47.22       BS2
ATOM  33979  CB  PRO B 183     153.396 153.328 -12.729  1.00 76.05       BS2
ATOM  33980  CG  PRO B 183     152.952 152.947 -11.349  1.00 76.05       BS2
ATOM  33981  C   PRO B 183     155.371 152.608 -14.133  1.00 47.22       BS2
ATOM  33982  O   PRO B 183     156.283 153.389 -13.851  1.00 47.22       BS2
ATOM  33983  N   VAL B 184     155.215 152.086 -15.342  1.00 62.37       BS2
ATOM  33984  CA  VAL B 184     156.132 152.388 -16.432  1.00 62.37       BS2
ATOM  33985  CB  VAL B 184     156.630 151.085 -17.121  1.00 64.58       BS2
ATOM  33986  CG1 VAL B 184     157.461 151.419 -18.335  1.00 64.58       BS2
ATOM  33987  CG2 VAL B 184     157.458 150.269 -16.158  1.00 64.58       BS2
ATOM  33988  C   VAL B 184     155.477 153.265 -17.484  1.00 62.37       BS2
ATOM  33989  O   VAL B 184     154.391 152.958 -17.973  1.00 62.37       BS2
ATOM  33990  N   ILE B 185     156.149 154.355 -17.838  1.00 61.90       BS2
ATOM  33991  CA  ILE B 185     155.652 155.278 -18.856  1.00 61.90       BS2
ATOM  33992  CB  ILE B 185     155.581 156.698 -18.289  1.00 83.94       BS2
ATOM  33993  CG2 ILE B 185     154.674 157.559 -19.139  1.00 83.94       BS2
ATOM  33994  CG1 ILE B 185     155.034 156.639 -16.864  1.00 83.94       BS2
ATOM  33995  CD1 ILE B 185     155.123 157.936 -16.108  1.00 83.94       BS2
ATOM  33996  C   ILE B 185     156.656 155.236 -20.011  1.00 61.90       BS2
ATOM  33997  O   ILE B 185     157.863 155.276 -19.779  1.00 61.90       BS2
ATOM  33998  N   ALA B 186     156.187 155.142 -21.248  1.00 47.53       BS2
ATOM  33999  CA  ALA B 186     157.142 155.096 -22.347  1.00 47.53       BS2
ATOM  34000  CB  ALA B 186     157.596 153.667 -22.567  1.00137.53       BS2
ATOM  34001  C   ALA B 186     156.680 155.699 -23.670  1.00 47.53       BS2
ATOM  34002  O   ALA B 186     155.496 155.659 -24.023  1.00 47.53       BS2
ATOM  34003  N   LEU B 187     157.641 156.251 -24.403  1.00 79.70       BS2
ATOM  34004  CA  LEU B 187     157.374 156.868 -25.692  1.00 79.70       BS2
ATOM  34005  CB  LEU B 187     158.436 157.917 -25.986  1.00 69.53       BS2
ATOM  34006  CG  LEU B 187     158.058 159.093 -26.884  1.00 69.53       BS2
ATOM  34007  CD1 LEU B 187     159.339 159.842 -27.195  1.00 69.53       BS2
ATOM  34008  CD2 LEU B 187     157.382 158.649 -28.178  1.00 69.53       BS2
ATOM  34009  C   LEU B 187     157.432 155.775 -26.749  1.00 79.70       BS2
ATOM  34010  O   LEU B 187     157.354 156.035 -27.949  1.00 79.70       BS2
ATOM  34011  N   ALA B 188     157.578 154.545 -26.272  1.00 75.57       BS2
ATOM  34012  CA  ALA B 188     157.667 153.348 -27.102  1.00 75.57       BS2
ATOM  34013  CB  ALA B 188     157.034 152.179 -26.355  1.00 75.46       BS2
ATOM  34014  C   ALA B 188     157.076 153.434 -28.509  1.00 75.57       BS2
ATOM  34015  O   ALA B 188     156.055 154.084 -28.739  1.00 75.57       BS2
ATOM  34016  N   ASP B 189     157.725 152.758 -29.450  1.00 75.73       BS2
ATOM  34017  CA  ASP B 189     157.235 152.740 -30.818  1.00 75.73       BS2
ATOM  34018  CB  ASP B 189     157.971 153.778 -31.667  1.00116.55       BS2
ATOM  34019  CG  ASP B 189     159.321 153.296 -32.130  1.00116.55       BS2
ATOM  34020  OD1 ASP B 189     160.135 152.899 -31.272  1.00116.55       BS2
ATOM  34021  OD2 ASP B 189     159.565 153.317 -33.355  1.00116.55       BS2
ATOM  34022  C   ASP B 189     157.358 151.354 -31.457  1.00 75.73       BS2
ATOM  34023  O   ASP B 189     157.803 150.396 -30.827  1.00 75.73       BS2
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ATOM  34024  N   THR B 190     156.948 151.282 -32.719  1.00 54.41      BS2
ATOM  34025  CA  THR B 190     156.939 150.078 -33.534  1.00 54.41      BS2
ATOM  34026  CB  THR B 190     157.019 150.491 -34.999  1.00 44.12      BS2
ATOM  34027  OG1 THR B 190     155.695 150.770 -35.456  1.00 44.12      BS2
ATOM  34028  CG2 THR B 190     157.639 149.412 -35.860  1.00 44.12      BS2
ATOM  34029  C   THR B 190     157.924 148.944 -33.261  1.00 54.41      BS2
ATOM  34030  O   THR B 190     157.586 147.774 -33.444  1.00 54.41      BS2
ATOM  34031  N   ASP B 191     159.133 149.260 -32.827  1.00 51.60      BS2
ATOM  34032  CA  ASP B 191     160.090 148.196 -32.570  1.00 51.60      BS2
ATOM  34033  CB  ASP B 191     161.520 148.668 -32.873  1.00112.88      BS2
ATOM  34034  CG  ASP B 191     162.104 149.540 -31.772  1.00112.88      BS2
ATOM  34035  OD1 ASP B 191     161.547 150.621 -31.499  1.00112.88      BS2
ATOM  34036  OD2 ASP B 191     163.131 149.144 -31.180  1.00112.88      BS2
ATOM  34037  C   ASP B 191     160.013 147.703 -31.136  1.00 51.60      BS2
ATOM  34038  O   ASP B 191     160.922 147.025 -30.671  1.00 51.60      BS2
ATOM  34039  N   SER B 192     158.931 148.021 -30.432  1.00 79.43      BS2
ATOM  34040  CA  SER B 192     158.818 147.606 -29.036  1.00 79.43      BS2
ATOM  34041  CB  SER B 192     158.787 148.833 -28.119  1.00100.55      BS2
ATOM  34042  OG  SER B 192     157.570 149.541 -28.266  1.00100.55      BS2
ATOM  34043  C   SER B 192     157.629 146.719 -28.702  1.00 79.43      BS2
ATOM  34044  O   SER B 192     156.783 146.429 -29.556  1.00 79.43      BS2
ATOM  34045  N   ASP B 193     157.594 146.300 -27.436  1.00 68.00      BS2
ATOM  34046  CA  ASP B 193     156.541 145.443 -26.902  1.00 68.00      BS2
ATOM  34047  CB  ASP B 193     157.145 144.251 -26.155  1.00151.29      BS2
ATOM  34048  CG  ASP B 193     156.102 143.223 -25.754  1.00151.29      BS2
ATOM  34049  OD1 ASP B 193     155.147 143.587 -25.037  1.00151.29      BS2
ATOM  34050  OD2 ASP B 193     156.240 142.049 -26.158  1.00151.29      BS2
ATOM  34051  C   ASP B 193     155.709 146.273 -25.943  1.00 68.00      BS2
ATOM  34052  O   ASP B 193     156.092 146.476 -24.782  1.00 68.00      BS2
ATOM  34053  N   PRO B 194     154.547 146.753 -26.417  1.00 73.50      BS2
ATOM  34054  CD  PRO B 194     153.900 146.326 -27.672  1.00 37.97      BS2
ATOM  34055  CA  PRO B 194     153.632 147.577 -25.629  1.00 73.50      BS2
ATOM  34056  CB  PRO B 194     152.425 147.718 -26.548  1.00 37.97      BS2
ATOM  34057  CG  PRO B 194     152.444 146.450 -27.333  1.00 37.97      BS2
ATOM  34058  C   PRO B 194     153.267 146.966 -24.296  1.00 73.50      BS2
ATOM  34059  O   PRO B 194     153.411 147.601 -23.253  1.00 73.50      BS2
ATOM  34060  N   ASP B 195     152.799 145.726 -24.341  1.00 48.10      BS2
ATOM  34061  CA  ASP B 195     152.384 145.022 -23.142  1.00 48.10      BS2
ATOM  34062  CB  ASP B 195     152.348 143.519 -23.411  1.00198.89      BS2
ATOM  34063  CG  ASP B 195     151.206 143.129 -24.324  1.00198.89      BS2
ATOM  34064  OD1 ASP B 195     151.151 143.651 -25.458  1.00198.89      BS2
ATOM  34065  OD2 ASP B 195     150.361 142.308 -23.907  1.00198.89      BS2
ATOM  34066  C   ASP B 195     153.189 145.308 -21.877  1.00 48.10      BS2
ATOM  34067  O   ASP B 195     152.683 145.131 -20.779  1.00 48.10      BS2
ATOM  34068  N   LEU B 196     154.430 145.751 -21.998  1.00 59.03      BS2
ATOM  34069  CA  LEU B 196     155.178 146.026 -20.786  1.00 59.03      BS2
ATOM  34070  CB  LEU B 196     156.643 145.644 -20.968  1.00 29.76      BS2
ATOM  34071  CG  LEU B 196     156.779 144.146 -21.204  1.00 29.76      BS2
ATOM  34072  CD1 LEU B 196     158.216 143.746 -21.145  1.00 29.76      BS2
ATOM  34073  CD2 LEU B 196     155.998 143.408 -20.146  1.00 29.76      BS2
ATOM  34074  C   LEU B 196     155.056 147.473 -20.334  1.00 59.03      BS2
ATOM  34075  O   LEU B 196     155.368 147.794 -19.188  1.00 59.03      BS2
ATOM  34076  N   VAL B 197     154.601 148.346 -21.229  1.00 55.57      BS2
ATOM  34077  CA  VAL B 197     154.431 149.751 -20.892  1.00 55.57      BS2
ATOM  34078  CB  VAL B 197     154.556 150.641 -22.131  1.00120.71      BS2
ATOM  34079  CG1 VAL B 197     154.577 152.104 -21.719  1.00120.71      BS2
ATOM  34080  CG2 VAL B 197     155.810 150.280 -22.895  1.00120.71      BS2
ATOM  34081  C   VAL B 197     153.031 149.901 -20.312  1.00 55.57      BS2
ATOM  34082  O   VAL B 197     152.039 149.525 -20.953  1.00 55.57      BS2
ATOM  34083  N   ASP B 198     152.964 150.442 -19.094  1.00 86.72      BS2
ATOM  34084  CA  ASP B 198     151.705 150.643 -18.382  1.00 86.72      BS2
ATOM  34085  CB  ASP B 198     151.995 150.878 -16.904  1.00 84.81      BS2
ATOM  34086  CG  ASP B 198     152.834 149.763 -16.298  1.00 84.81      BS2
ATOM  34087  OD1 ASP B 198     152.414 148.590 -16.389  1.00 84.81      BS2
ATOM  34088  OD2 ASP B 198     153.913 150.051 -15.733  1.00 84.81      BS2
ATOM  34089  C   ASP B 198     150.889 151.790 -18.969  1.00 86.72      BS2
ATOM  34090  O   ASP B 198     149.678 151.674 -19.125  1.00 86.72      BS2
ATOM  34091  N   TYR B 199     151.548 152.903 -19.272  1.00 64.17      BS2
ATOM  34092  CA  TYR B 199     150.889 154.045 -19.905  1.00 64.17      BS2
ATOM  34093  CB  TYR B 199     150.801 155.246 -18.966  1.00 49.98      BS2
ATOM  34094  CG  TYR B 199     150.158 154.929 -17.634  1.00 49.98      BS2
ATOM  34095  CD1 TYR B 199     150.934 154.581 -16.529  1.00 49.98      BS2
ATOM  34096  CE1 TYR B 199     150.347 154.246 -15.319  1.00 49.98      BS2
ATOM  34097  CD2 TYR B 199     148.773 154.936 -17.486  1.00 49.98      BS2
ATOM  34098  CE2 TYR B 199     148.176 154.596 -16.271  1.00 49.98      BS2
ATOM  34099  CZ  TYR B 199     148.969 154.251 -15.200  1.00 49.98      BS2
ATOM  34100  OH  TYR B 199     148.397 153.879 -14.012  1.00 49.98      BS2
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ATOM  34101  C   TYR B 199     151.791 154.356 -21.088  1.00 64.17      BS2
ATOM  34102  O   TYR B 199     152.888 154.898 -20.930  1.00 64.17      BS2
ATOM  34103  N   ILE B 200     151.321 153.981 -22.271  1.00 72.74      BS2
ATOM  34104  CA  ILE B 200     152.075 154.136 -23.503  1.00 72.74      BS2
ATOM  34105  CB  ILE B 200     151.694 153.026 -24.505  1.00 98.51      BS2
ATOM  34106  CG2 ILE B 200     152.587 153.088 -25.731  1.00 98.51      BS2
ATOM  34107  CG1 ILE B 200     151.813 151.661 -23.832  1.00 98.51      BS2
ATOM  34108  CD1 ILE B 200     151.401 150.511 -24.718  1.00 98.51      BS2
ATOM  34109  C   ILE B 200     151.918 155.455 -24.226  1.00 72.74      BS2
ATOM  34110  O   ILE B 200     150.834 156.029 -24.260  1.00 72.74      BS2
ATOM  34111  N   ILE B 201     153.025 155.917 -24.803  1.00 62.34      BS2
ATOM  34112  CA  ILE B 201     153.066 157.130 -25.609  1.00 62.34      BS2
ATOM  34113  CB  ILE B 201     154.017 158.196 -25.033  1.00 89.40      BS2
ATOM  34114  CG2 ILE B 201     154.003 159.429 -25.921  1.00 89.40      BS2
ATOM  34115  CG1 ILE B 201     153.572 158.602 -23.632  1.00 89.40      BS2
ATOM  34116  CD1 ILE B 201     154.449 159.671 -23.005  1.00 89.40      BS2
ATOM  34117  C   ILE B 201     153.640 156.616 -26.931  1.00 62.34      BS2
ATOM  34118  O   ILE B 201     154.826 156.775 -27.220  1.00 62.34      BS2
ATOM  34119  N   PRO B 202     152.792 155.975 -27.745  1.00 57.65      BS2
ATOM  34120  CD  PRO B 202     151.341 155.874 -27.517  1.00 62.89      BS2
ATOM  34121  CA  PRO B 202     153.138 155.399 -29.041  1.00 57.65      BS2
ATOM  34122  CB  PRO B 202     151.871 154.649 -29.419  1.00 62.89      BS2
ATOM  34123  CG  PRO B 202     150.822 155.548 -28.897  1.00 62.89      BS2
ATOM  34124  C   PRO B 202     153.535 156.405 -30.101  1.00 57.65      BS2
ATOM  34125  O   PRO B 202     152.679 156.965 -30.786  1.00 57.65      BS2
ATOM  34126  N   GLY B 203     154.835 156.617 -30.253  1.00 64.43      BS2
ATOM  34127  CA  GLY B 203     155.289 157.556 -31.256  1.00 64.43      BS2
ATOM  34128  C   GLY B 203     156.730 157.340 -31.657  1.00 64.43      BS2
ATOM  34129  O   GLY B 203     157.443 156.561 -31.023  1.00 64.43      BS2
ATOM  34130  N   ASN B 204     157.148 158.034 -32.715  1.00 60.78      BS2
ATOM  34131  CA  ASN B 204     158.513 157.951 -33.219  1.00 60.78      BS2
ATOM  34132  CB  ASN B 204     158.717 159.006 -34.307  1.00139.87      BS2
ATOM  34133  CG  ASN B 204     160.048 158.877 -35.005  1.00139.87      BS2
ATOM  34134  OD1 ASN B 204     160.295 159.531 -36.019  1.00139.87      BS2
ATOM  34135  ND2 ASN B 204     160.918 158.035 -34.466  1.00139.87      BS2
ATOM  34136  C   ASN B 204     159.466 158.186 -32.050  1.00 60.78      BS2
ATOM  34137  O   ASN B 204     159.691 159.320 -31.645  1.00 60.78      BS2
ATOM  34138  N   ASP B 205     160.008 157.102 -31.502  1.00 81.40      BS2
ATOM  34139  CA  ASP B 205     160.914 157.178 -30.360  1.00 81.40      BS2
ATOM  34140  CB  ASP B 205     161.013 155.817 -29.666  1.00166.21      BS2
ATOM  34141  CG  ASP B 205     161.894 154.840 -30.421  1.00166.21      BS2
ATOM  34142  OD1 ASP B 205     161.715 154.701 -31.649  1.00166.21      BS2
ATOM  34143  OD2 ASP B 205     162.763 154.207 -29.786  1.00166.21      BS2
ATOM  34144  C   ASP B 205     162.296 157.621 -30.797  1.00 81.40      BS2
ATOM  34145  O   ASP B 205     163.206 157.742 -29.976  1.00 81.40      BS2
ATOM  34146  N   ASP B 206     162.447 157.846 -32.097  1.00115.37      BS2
ATOM  34147  CA  ASP B 206     163.710 158.293 -32.670  1.00115.37      BS2
ATOM  34148  CB  ASP B 206     164.161 157.323 -33.764  1.00193.69      BS2
ATOM  34149  CG  ASP B 206     165.489 157.709 -34.382  1.00193.69      BS2
ATOM  34150  OD1 ASP B 206     166.468 157.892 -33.628  1.00193.69      BS2
ATOM  34151  OD2 ASP B 206     165.556 157.819 -35.625  1.00193.69      BS2
ATOM  34152  C   ASP B 206     163.471 159.685 -33.250  1.00115.37      BS2
ATOM  34153  O   ASP B 206     162.362 159.992 -33.690  1.00115.37      BS2
ATOM  34154  N   ALA B 207     164.508 160.520 -33.243  1.00101.11      BS2
ATOM  34155  CA  ALA B 207     164.424 161.892 -33.742  1.00101.11      BS2
ATOM  34156  CB  ALA B 207     163.500 161.978 -34.953  1.00 66.86      BS2
ATOM  34157  C   ALA B 207     163.909 162.790 -32.624  1.00101.11      BS2
ATOM  34158  O   ALA B 207     162.756 162.678 -32.200  1.00101.11      BS2
ATOM  34159  N   ILE B 208     164.781 163.679 -32.154  1.00 76.68      BS2
ATOM  34160  CA  ILE B 208     164.464 164.602 -31.072  1.00 76.68      BS2
ATOM  34161  CB  ILE B 208     165.625 165.583 -30.848  1.00105.92      BS2
ATOM  34162  CG2 ILE B 208     165.302 166.518 -29.695  1.00105.92      BS2
ATOM  34163  CG1 ILE B 208     166.905 164.797 -30.553  1.00105.92      BS2
ATOM  34164  CD1 ILE B 208     168.149 165.651 -30.446  1.00105.92      BS2
ATOM  34165  C   ILE B 208     163.185 165.390 -31.317  1.00 76.68      BS2
ATOM  34166  O   ILE B 208     162.459 165.724 -30.378  1.00 76.68      BS2
ATOM  34167  N   ARG B 209     162.900 165.676 -32.581  1.00123.55      BS2
ATOM  34168  CA  ARG B 209     161.703 166.430 -32.904  1.00123.55      BS2
ATOM  34169  CB  ARG B 209     161.505 166.490 -34.422  1.00170.16      BS2
ATOM  34170  CG  ARG B 209     160.462 167.511 -34.873  1.00170.16      BS2
ATOM  34171  CD  ARG B 209     160.764 168.924 -34.363  1.00170.16      BS2
ATOM  34172  NE  ARG B 209     161.914 169.541 -35.022  1.00170.16      BS2
ATOM  34173  CZ  ARG B 209     162.386 170.750 -34.727  1.00170.16      BS2
ATOM  34174  NH1 ARG B 209     161.813 171.478 -33.778  1.00170.16      BS2
ATOM  34175  NH2 ARG B 209     163.431 171.235 -35.384  1.00170.16      BS2
ATOM  34176  C   ARG B 209     160.485 165.809 -32.215  1.00123.55      BS2
ATOM  34177  O   ARG B 209     159.472 166.477 -32.009  1.00123.55      BS2
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ATOM  34178  N   SER B 210     160.593 164.533 -31.847  1.00 75.17      BS2
ATOM  34179  CA  SER B 210     159.502 163.841 -31.162  1.00 75.17      BS2
ATOM  34180  CB  SER B 210     159.212 162.483 -31.812  1.00 77.41      BS2
ATOM  34181  OG  SER B 210     158.526 162.619 -33.045  1.00 77.41      BS2
ATOM  34182  C   SER B 210     159.862 163.630 -29.699  1.00 75.17      BS2
ATOM  34183  O   SER B 210     159.073 163.934 -28.808  1.00 75.17      BS2
ATOM  34184  N   ILE B 211     161.055 163.098 -29.459  1.00 69.07      BS2
ATOM  34185  CA  ILE B 211     161.520 162.863 -28.097  1.00 69.07      BS2
ATOM  34186  CB  ILE B 211     163.020 162.574 -28.049  1.00 67.15      BS2
ATOM  34187  CG2 ILE B 211     163.418 162.219 -26.633  1.00 67.15      BS2
ATOM  34188  CG1 ILE B 211     163.384 161.469 -29.034  1.00 67.15      BS2
ATOM  34189  CD1 ILE B 211     164.878 161.279 -29.178  1.00 67.15      BS2
ATOM  34190  C   ILE B 211     161.312 164.141 -27.306  1.00 69.07      BS2
ATOM  34191  O   ILE B 211     160.758 164.126 -26.210  1.00 69.07      BS2
ATOM  34192  N   GLN B 212     161.779 165.245 -27.886  1.00 73.99      BS2
ATOM  34193  CA  GLN B 212     161.684 166.567 -27.279  1.00 73.99      BS2
ATOM  34194  CB  GLN B 212     162.486 167.568 -28.119  1.00134.85      BS2
ATOM  34195  CG  GLN B 212     162.793 168.903 -27.452  1.00134.85      BS2
ATOM  34196  CD  GLN B 212     161.566 169.765 -27.257  1.00134.85      BS2
ATOM  34197  OE1 GLN B 212     160.710 169.855 -28.138  1.00134.85      BS2
ATOM  34198  NE2 GLN B 212     161.481 170.421 -26.105  1.00134.85      BS2
ATOM  34199  C   GLN B 212     160.224 166.994 -27.196  1.00 73.99      BS2
ATOM  34200  O   GLN B 212     159.686 167.207 -26.107  1.00 73.99      BS2
ATOM  34201  N   LEU B 213     159.584 167.098 -28.354  1.00 67.37      BS2
ATOM  34202  CA  LEU B 213     158.189 167.497 -28.415  1.00 67.37      BS2
ATOM  34203  CB  LEU B 213     157.613 167.120 -29.769  1.00 62.14      BS2
ATOM  34204  CG  LEU B 213     156.242 167.724 -30.057  1.00 62.14      BS2
ATOM  34205  CD1 LEU B 213     155.981 167.618 -31.553  1.00 62.14      BS2
ATOM  34206  CD2 LEU B 213     155.153 167.036 -29.237  1.00 62.14      BS2
ATOM  34207  C   LEU B 213     157.357 166.860 -27.305  1.00 67.37      BS2
ATOM  34208  O   LEU B 213     156.907 167.537 -26.382  1.00 67.37      BS2
ATOM  34209  N   ILE B 214     157.154 165.552 -27.405  1.00 68.67      BS2
ATOM  34210  CA  ILE B 214     156.374 164.806 -26.419  1.00 68.67      BS2
ATOM  34211  CB  ILE B 214     156.358 163.303 -26.758  1.00 54.23      BS2
ATOM  34212  CG2 ILE B 214     155.618 162.528 -25.690  1.00 54.23      BS2
ATOM  34213  CG1 ILE B 214     155.711 163.098 -28.124  1.00 54.23      BS2
ATOM  34214  CD1 ILE B 214     154.315 163.689 -28.259  1.00 54.23      BS2
ATOM  34215  C   ILE B 214     156.882 164.962 -24.991  1.00 68.67      BS2
ATOM  34216  O   ILE B 214     156.178 165.472 -24.119  1.00 68.67      BS2
ATOM  34217  N   LEU B 215     158.107 164.505 -24.758  1.00 69.34      BS2
ATOM  34218  CA  LEU B 215     158.703 164.577 -23.436  1.00 69.34      BS2
ATOM  34219  CB  LEU B 215     160.177 164.176 -23.510  1.00 94.20      BS2
ATOM  34220  CG  LEU B 215     160.852 163.686 -22.229  1.00 94.20      BS2
ATOM  34221  CD1 LEU B 215     162.315 163.372 -22.521  1.00 94.20      BS2
ATOM  34222  CD2 LEU B 215     160.738 164.741 -21.142  1.00 94.20      BS2
ATOM  34223  C   LEU B 215     158.564 165.985 -22.856  1.00 69.34      BS2
ATOM  34224  O   LEU B 215     157.962 166.167 -21.796  1.00 69.34      BS2
ATOM  34225  N   SER B 216     159.110 166.974 -23.560  1.00 72.06      BS2
ATOM  34226  CA  SER B 216     159.057 168.362 -23.110  1.00 72.06      BS2
ATOM  34227  CB  SER B 216     159.419 169.308 -24.250  1.00153.29      BS2
ATOM  34228  OG  SER B 216     158.456 169.233 -25.284  1.00153.29      BS2
ATOM  34229  C   SER B 216     157.682 168.733 -22.573  1.00 72.06      BS2
ATOM  34230  O   SER B 216     157.554 169.188 -21.440  1.00 72.06      BS2
ATOM  34231  N   ARG B 217     156.652 168.539 -23.390  1.00 72.83      BS2
ATOM  34232  CA  ARG B 217     155.294 168.856 -22.975  1.00 72.83      BS2
ATOM  34233  CB  ARG B 217     154.303 168.471 -24.074  1.00 94.27      BS2
ATOM  34234  CG  ARG B 217     154.573 169.116 -25.430  1.00 94.27      BS2
ATOM  34235  CD  ARG B 217     154.625 170.654 -25.359  1.00 94.27      BS2
ATOM  34236  NE  ARG B 217     154.453 171.277 -26.676  1.00 94.27      BS2
ATOM  34237  CZ  ARG B 217     153.289 171.359 -27.321  1.00 94.27      BS2
ATOM  34238  NH1 ARG B 217     152.180 170.867 -26.775  1.00 94.27      BS2
ATOM  34239  NH2 ARG B 217     153.236 171.915 -28.525  1.00 94.27      BS2
ATOM  34240  C   ARG B 217     154.934 168.129 -21.676  1.00 72.83      BS2
ATOM  34241  O   ARG B 217     154.326 168.706 -20.778  1.00 72.83      BS2
ATOM  34242  N   ALA B 218     155.318 166.860 -21.581  1.00 79.65      BS2
ATOM  34243  CA  ALA B 218     155.029 166.062 -20.398  1.00 79.65      BS2
ATOM  34244  CB  ALA B 218     155.615 164.668 -20.550  1.00 62.55      BS2
ATOM  34245  C   ALA B 218     155.594 166.737 -19.160  1.00 79.65      BS2
ATOM  34246  O   ALA B 218     155.102 166.537 -18.055  1.00 79.65      BS2
ATOM  34247  N   VAL B 219     156.637 167.535 -19.351  1.00 68.76      BS2
ATOM  34248  CA  VAL B 219     157.254 168.246 -18.240  1.00 68.76      BS2
ATOM  34249  CB  VAL B 219     158.705 168.682 -18.576  1.00 68.97      BS2
ATOM  34250  CG1 VAL B 219     159.343 169.370 -17.368  1.00 68.97      BS2
ATOM  34251  CG2 VAL B 219     159.522 167.470 -19.006  1.00 68.97      BS2
ATOM  34252  C   VAL B 219     156.411 169.482 -17.962  1.00 68.76      BS2
ATOM  34253  O   VAL B 219     156.248 169.893 -16.814  1.00 68.76      BS2
ATOM  34254  N   ASP B 220     155.872 170.064 -19.029  1.00115.91      BS2
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ATOM  34255  CA  ASP B 220     155.030 171.243 -18.904  1.00115.91       BS2
ATOM  34256  CB  ASP B 220     154.586 171.737 -20.282  1.00107.38       BS2
ATOM  34257  CG  ASP B 220     155.751 172.182 -21.146  1.00107.38       BS2
ATOM  34258  OD1 ASP B 220     156.565 173.011 -20.683  1.00107.38       BS2
ATOM  34259  OD2 ASP B 220     155.848 171.706 -22.293  1.00107.38       BS2
ATOM  34260  C   ASP B 220     153.812 170.878 -18.073  1.00115.91       BS2
ATOM  34261  O   ASP B 220     153.356 171.659 -17.241  1.00115.91       BS2
ATOM  34262  N   LEU B 221     153.290 169.679 -18.304  1.00 87.52       BS2
ATOM  34263  CA  LEU B 221     152.131 169.201 -17.568  1.00 87.52       BS2
ATOM  34264  CB  LEU B 221     151.592 167.922 -18.217  1.00 96.79       BS2
ATOM  34265  CG  LEU B 221     150.141 167.508 -17.945  1.00 96.79       BS2
ATOM  34266  CD1 LEU B 221     149.957 167.187 -16.478  1.00 96.79       BS2
ATOM  34267  CD2 LEU B 221     149.205 168.627 -18.377  1.00 96.79       BS2
ATOM  34268  C   LEU B 221     152.570 168.931 -16.128  1.00 87.52       BS2
ATOM  34269  O   LEU B 221     151.827 169.197 -15.183  1.00 87.52       BS2
ATOM  34270  N   ILE B 222     153.779 168.402 -15.963  1.00 80.86       BS2
ATOM  34271  CA  ILE B 222     154.297 168.132 -14.628  1.00 80.86       BS2
ATOM  34272  CB  ILE B 222     155.762 167.627 -14.658  1.00 78.05       BS2
ATOM  34273  CG2 ILE B 222     156.279 167.444 -13.235  1.00 78.05       BS2
ATOM  34274  CG1 ILE B 222     155.848 166.303 -15.421  1.00 78.05       BS2
ATOM  34275  CD1 ILE B 222     157.269 165.846 -15.708  1.00 78.05       BS2
ATOM  34276  C   ILE B 222     154.267 169.456 -13.885  1.00 80.86       BS2
ATOM  34277  O   ILE B 222     153.540 169.605 -12.906  1.00 80.86       BS2
ATOM  34278  N   ILE B 223     155.048 170.420 -14.367  1.00102.44       BS2
ATOM  34279  CA  ILE B 223     155.109 171.739 -13.741  1.00102.44       BS2
ATOM  34280  CB  ILE B 223     156.140 172.658 -14.451  1.00 96.80       BS2
ATOM  34281  CG2 ILE B 223     157.532 172.437 -13.862  1.00 96.80       BS2
ATOM  34282  CG1 ILE B 223     156.109 172.406 -15.961  1.00 96.80       BS2
ATOM  34283  CD1 ILE B 223     157.352 172.868 -16.714  1.00 96.80       BS2
ATOM  34284  C   ILE B 223     153.745 172.419 -13.700  1.00102.44       BS2
ATOM  34285  O   ILE B 223     153.343 172.919 -12.652  1.00102.44       BS2
ATOM  34286  N   GLN B 224     153.031 172.435 -14.824  1.00 84.54       BS2
ATOM  34287  CA  GLN B 224     151.705 173.043 -14.852  1.00 84.54       BS2
ATOM  34288  CB  GLN B 224     150.948 172.677 -16.132  1.00105.76       BS2
ATOM  34289  CG  GLN B 224     149.622 173.421 -16.285  1.00105.76       BS2
ATOM  34290  CD  GLN B 224     148.467 172.531 -16.734  1.00105.76       BS2
ATOM  34291  OE1 GLN B 224     148.072 171.597 -16.029  1.00105.76       BS2
ATOM  34292  NE2 GLN B 224     147.914 172.826 -17.908  1.00105.76       BS2
ATOM  34293  C   GLN B 224     150.926 172.510 -13.654  1.00 84.54       BS2
ATOM  34294  O   GLN B 224     150.553 173.263 -12.759  1.00 84.54       BS2
ATOM  34295  N   ALA B 225     150.693 171.202 -13.638  1.00 87.28       BS2
ATOM  34296  CA  ALA B 225     149.961 170.566 -12.548  1.00 87.28       BS2
ATOM  34297  CB  ALA B 225     149.873 169.066 -12.787  1.00151.96       BS2
ATOM  34298  C   ALA B 225     150.618 170.842 -11.198  1.00 87.28       BS2
ATOM  34299  O   ALA B 225     149.983 170.706 -10.155  1.00 87.28       BS2
ATOM  34300  N   ARG B 226     151.893 171.215 -11.218  1.00113.76       BS2
ATOM  34301  CA  ARG B 226     152.602 171.527  -9.984  1.00113.76       BS2
ATOM  34302  CB  ARG B 226     154.034 170.998 -10.023  1.00160.73       BS2
ATOM  34303  CG  ARG B 226     154.154 169.509  -9.795  1.00160.73       BS2
ATOM  34304  CD  ARG B 226     155.606 169.127  -9.598  1.00160.73       BS2
ATOM  34305  NE  ARG B 226     156.433 169.543 -10.727  1.00160.73       BS2
ATOM  34306  CZ  ARG B 226     157.756 169.420 -10.770  1.00160.73       BS2
ATOM  34307  NH1 ARG B 226     158.409 168.892  -9.743  1.00160.73       BS2
ATOM  34308  NH2 ARG B 226     158.427 169.821 -11.842  1.00160.73       BS2
ATOM  34309  C   ARG B 226     152.635 173.030  -9.771  1.00113.76       BS2
ATOM  34310  O   ARG B 226     153.581 173.554  -9.183  1.00113.76       BS2
ATOM  34311  N   GLY B 227     151.599 173.712 -10.260  1.00200.96       BS2
ATOM  34312  CA  GLY B 227     151.500 175.157 -10.126  1.00200.96       BS2
ATOM  34313  C   GLY B 227     152.825 175.887 -10.240  1.00200.96       BS2
ATOM  34314  O   GLY B 227     153.532 176.056  -9.247  1.00200.96       BS2
ATOM  34315  N   GLY B 228     153.163 176.332 -11.446  1.00122.89       BS2
ATOM  34316  CA  GLY B 228     154.420 177.033 -11.641  1.00122.89       BS2
ATOM  34317  C   GLY B 228     154.405 177.991 -12.815  1.00122.89       BS2
ATOM  34318  O   GLY B 228     155.405 178.663 -13.082  1.00122.89       BS2
ATOM  34319  N   VAL B 229     153.271 178.044 -13.514  1.00163.05       BS2
ATOM  34320  CA  VAL B 229     153.083 178.922 -14.670  1.00163.05       BS2
ATOM  34321  CB  VAL B 229     152.751 180.369 -14.219  1.00106.86       BS2
ATOM  34322  CG1 VAL B 229     152.036 181.116 -15.341  1.00106.86       BS2
ATOM  34323  CG2 VAL B 229     151.904 180.346 -12.954  1.00106.86       BS2
ATOM  34324  C   VAL B 229     154.336 178.963 -15.547  1.00163.05       BS2
ATOM  34325  O   VAL B 229     154.687 180.005 -16.100  1.00163.05       BS2
ATOM  34326  N   VAL B 230     155.000 177.819 -15.675  1.00155.89       BS2
ATOM  34327  CA  VAL B 230     156.226 177.724 -16.459  1.00155.89       BS2
ATOM  34328  CB  VAL B 230     156.805 176.292 -16.400  1.00191.44       BS2
ATOM  34329  CG1 VAL B 230     158.098 176.213 -17.200  1.00191.44       BS2
ATOM  34330  CG2 VAL B 230     157.061 175.900 -14.951  1.00191.44       BS2
ATOM  34331  C   VAL B 230     156.084 178.146 -17.921  1.00155.89       BS2
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ATOM  34332  O   VAL B 230     155.047 177.931 -18.553  1.00155.89       BS2
ATOM  34333  N   GLU B 231     157.150 178.751 -18.438  1.00146.23       BS2
ATOM  34334  CA  GLU B 231     157.211 179.228 -19.814  1.00146.23       BS2
ATOM  34335  CB  GLU B 231     157.887 180.606 -19.861  1.00200.96       BS2
ATOM  34336  CG  GLU B 231     157.769 181.429 -18.581  1.00200.96       BS2
ATOM  34337  CD  GLU B 231     158.759 180.996 -17.509  1.00200.96       BS2
ATOM  34338  OE1 GLU B 231     159.981 181.072 -17.760  1.00200.96       BS2
ATOM  34339  OE2 GLU B 231     158.319 180.582 -16.415  1.00200.96       BS2
ATOM  34340  C   GLU B 231     158.029 178.228 -20.634  1.00146.23       BS2
ATOM  34341  O   GLU B 231     158.557 177.260 -20.088  1.00146.23       BS2
ATOM  34342  N   PRO B 232     158.148 178.451 -21.955  1.00157.11       BS2
ATOM  34343  CD  PRO B 232     157.550 179.559 -22.724  1.00141.42       BS2
ATOM  34344  CA  PRO B 232     158.906 177.565 -22.845  1.00157.11       BS2
ATOM  34345  CB  PRO B 232     159.130 178.442 -24.066  1.00141.42       BS2
ATOM  34346  CG  PRO B 232     157.818 179.151 -24.162  1.00141.42       BS2
ATOM  34347  C   PRO B 232     160.211 177.013 -22.260  1.00157.11       BS2
ATOM  34348  O   PRO B 232     160.825 177.625 -21.382  1.00157.11       BS2
ATOM  34349  N   SER B 233     160.626 175.853 -22.767  1.00109.35       BS2
ATOM  34350  CA  SER B 233     161.834 175.178 -22.298  1.00109.35       BS2
ATOM  34351  CB  SER B 233     161.593 173.666 -22.250  1.00162.20       BS2
ATOM  34352  OG  SER B 233     162.595 173.007 -21.493  1.00162.20       BS2
ATOM  34353  C   SER B 233     163.072 175.461 -23.150  1.00109.35       BS2
ATOM  34354  O   SER B 233     162.980 175.633 -24.366  1.00109.35       BS2
ATOM  34355  N   PRO B 234     164.254 175.502 -22.510  1.00148.73       BS2
ATOM  34356  CD  PRO B 234     164.421 175.472 -21.044  1.00128.18       BS2
ATOM  34357  CA  PRO B 234     165.538 175.759 -23.171  1.00148.73       BS2
ATOM  34358  CB  PRO B 234     166.433 176.182 -22.011  1.00128.18       BS2
ATOM  34359  CG  PRO B 234     165.920 175.337 -20.886  1.00128.18       BS2
ATOM  34360  C   PRO B 234     166.119 174.569 -23.942  1.00148.73       BS2
ATOM  34361  O   PRO B 234     167.220 174.659 -24.487  1.00148.73       BS2
ATOM  34362  N   SER B 235     165.386 173.460 -23.985  1.00198.01       BS2
ATOM  34363  CA  SER B 235     165.848 172.264 -24.690  1.00198.01       BS2
ATOM  34364  CB  SER B 235     165.186 171.013 -24.112  1.00118.86       BS2
ATOM  34365  OG  SER B 235     163.793 171.009 -24.374  1.00118.86       BS2
ATOM  34366  C   SER B 235     165.537 172.352 -26.179  1.00198.01       BS2
ATOM  34367  O   SER B 235     166.093 171.605 -26.986  1.00198.01       BS2
ATOM  34368  N   TYR B 236     164.642 173.268 -26.532  1.00 97.32       BS2
ATOM  34369  CA  TYR B 236     164.245 173.475 -27.920  1.00 97.32       BS2
ATOM  34370  CB  TYR B 236     163.206 174.600 -27.982  1.00173.01       BS2
ATOM  34371  CG  TYR B 236     162.269 174.554 -29.170  1.00173.01       BS2
ATOM  34372  CD1 TYR B 236     161.191 175.434 -29.257  1.00173.01       BS2
ATOM  34373  CE1 TYR B 236     160.321 175.406 -30.345  1.00173.01       BS2
ATOM  34374  CD2 TYR B 236     162.456 173.638 -30.207  1.00173.01       BS2
ATOM  34375  CE2 TYR B 236     161.592 173.602 -31.302  1.00173.01       BS2
ATOM  34376  CZ  TYR B 236     160.528 174.489 -31.363  1.00173.01       BS2
ATOM  34377  OH  TYR B 236     159.671 174.463 -32.439  1.00173.01       BS2
ATOM  34378  C   TYR B 236     165.491 173.841 -28.738  1.00 97.32       BS2
ATOM  34379  O   TYR B 236     165.457 173.894 -29.968  1.00 97.32       BS2
ATOM  34380  N   ALA B 237     166.593 174.083 -28.034  1.00150.21       BS2
ATOM  34381  CA  ALA B 237     167.859 174.441 -28.663  1.00150.21       BS2
ATOM  34382  CB  ALA B 237     168.676 175.321 -27.722  1.00126.40       BS2
ATOM  34383  C   ALA B 237     168.654 173.194 -29.022  1.00150.21       BS2
ATOM  34384  O   ALA B 237     169.337 173.154 -30.045  1.00150.21       BS2
ATOM  34385  N   LEU B 238     168.565 172.180 -28.168  1.00155.18       BS2
ATOM  34386  CA  LEU B 238     169.277 170.929 -28.391  1.00155.18       BS2
ATOM  34387  CB  LEU B 238     168.976 169.940 -27.267  1.00155.86       BS2
ATOM  34388  CG  LEU B 238     169.473 170.315 -25.872  1.00155.86       BS2
ATOM  34389  CD1 LEU B 238     169.034 169.250 -24.885  1.00155.86       BS2
ATOM  34390  CD2 LEU B 238     170.991 170.446 -25.879  1.00155.86       BS2
ATOM  34391  C   LEU B 238     168.882 170.311 -29.721  1.00155.18       BS2
ATOM  34392  O   LEU B 238     169.631 169.522 -30.294  1.00155.18       BS2
ATOM  34393  N   VAL B 239     167.698 170.676 -30.201  1.00128.99       BS2
ATOM  34394  CA  VAL B 239     167.185 170.165 -31.465  1.00128.99       BS2
ATOM  34395  CB  VAL B 239     165.913 170.943 -31.884  1.00 92.99       BS2
ATOM  34396  CG1 VAL B 239     165.399 170.443 -33.226  1.00 92.99       BS2
ATOM  34397  CG2 VAL B 239     164.845 170.779 -30.814  1.00 92.99       BS2
ATOM  34398  C   VAL B 239     168.230 170.236 -32.584  1.00128.99       BS2
ATOM  34399  O   VAL B 239     168.526 169.229 -33.230  1.00128.99       BS2
ATOM  34400  N   GLN B 240     168.796 171.418 -32.806  1.00149.09       BS2
ATOM  34401  CA  GLN B 240     169.802 171.587 -33.850  1.00149.09       BS2
ATOM  34402  CB  GLN B 240     169.941 173.069 -34.206  1.00165.05       BS2
ATOM  34403  CG  GLN B 240     168.758 173.635 -34.976  1.00165.05       BS2
ATOM  34404  CD  GLN B 240     167.438 173.415 -34.267  1.00165.05       BS2
ATOM  34405  OE1 GLN B 240     167.267 173.807 -33.112  1.00165.05       BS2
ATOM  34406  NE2 GLN B 240     166.495 172.788 -34.958  1.00165.05       BS2
ATOM  34407  C   GLN B 240     171.163 171.022 -33.443  1.00149.09       BS2
ATOM  34408  O   GLN B 240     171.612 170.051 -34.094  1.00149.09       BS2
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ATOM  34409  OXT GLN B 240     171.764 171.553 -32.482  1.00165.05       BS2
TER   34409      GLN B 240                                                 BS2
ATOM  34410  C   GLY C   2     203.389 128.436   6.802  1.00 80.23       CS3
ATOM  34411  O   GLY C   2     204.586 128.160   6.794  1.00 80.23       CS3
ATOM  34412  N   GLY C   2     201.397 127.520   5.594  1.00 80.23       CS3
ATOM  34413  CA  GLY C   2     202.331 127.353   6.758  1.00 80.23       CS3
ATOM  34414  N   ASN C   3     202.932 129.679   6.856  1.00 81.40       CS3
ATOM  34415  CA  ASN C   3     203.819 130.828   6.887  1.00 81.40       CS3
ATOM  34416  CB  ASN C   3     204.092 131.279   5.450  1.00 75.39       CS3
ATOM  34417  CG  ASN C   3     202.834 131.294   4.575  1.00 75.39       CS3
ATOM  34418  OD1 ASN C   3     202.016 130.362   4.585  1.00 75.39       CS3
ATOM  34419  ND2 ASN C   3     202.699 132.346   3.792  1.00 75.39       CS3
ATOM  34420  C   ASN C   3     203.259 131.980   7.730  1.00 81.40       CS3
ATOM  34421  O   ASN C   3     202.656 131.751   8.783  1.00 81.40       CS3
ATOM  34422  N   LYS C   4     203.466 133.215   7.281  1.00100.80       CS3
ATOM  34423  CA  LYS C   4     202.973 134.391   8.002  1.00100.80       CS3
ATOM  34424  CB  LYS C   4     201.498 134.219   8.346  1.00 78.13       CS3
ATOM  34425  CG  LYS C   4     200.603 134.061   7.147  1.00 78.13       CS3
ATOM  34426  CD  LYS C   4     199.184 133.773   7.574  1.00 78.13       CS3
ATOM  34427  CE  LYS C   4     198.254 133.714   6.387  1.00 78.13       CS3
ATOM  34428  NZ  LYS C   4     196.851 133.452   6.819  1.00 78.13       CS3
ATOM  34429  C   LYS C   4     203.749 134.714   9.279  1.00100.80       CS3
ATOM  34430  O   LYS C   4     203.790 133.909  10.216  1.00100.80       CS3
ATOM  34431  N   ILE C   5     204.351 135.901   9.314  1.00 54.89       CS3
ATOM  34432  CA  ILE C   5     205.124 136.334  10.474  1.00 54.89       CS3
ATOM  34433  CB  ILE C   5     206.056 137.512  10.135  1.00 56.25       CS3
ATOM  34434  CG2 ILE C   5     207.473 137.019   9.948  1.00 56.25       CS3
ATOM  34435  CG1 ILE C   5     205.542 138.247   8.902  1.00 56.25       CS3
ATOM  34436  CD1 ILE C   5     204.212 138.904   9.095  1.00 56.25       CS3
ATOM  34437  C   ILE C   5     204.244 136.795  11.612  1.00 54.89       CS3
ATOM  34438  O   ILE C   5     203.266 137.497  11.385  1.00 54.89       CS3
ATOM  34439  N   HIS C   6     204.583 136.403  12.836  1.00 74.36       CS3
ATOM  34440  CA  HIS C   6     203.807 136.839  13.988  1.00 74.36       CS3
ATOM  34441  CB  HIS C   6     204.528 136.462  15.273  1.00 97.74       CS3
ATOM  34442  CG  HIS C   6     203.852 136.962  16.505  1.00 97.74       CS3
ATOM  34443  CD2 HIS C   6     203.024 138.013  16.703  1.00 97.74       CS3
ATOM  34444  ND1 HIS C   6     204.006 136.357  17.733  1.00 97.74       CS3
ATOM  34445  CE1 HIS C   6     203.300 137.013  18.636  1.00 97.74       CS3
ATOM  34446  NE2 HIS C   6     202.695 138.023  18.036  1.00 97.74       CS3
ATOM  34447  C   HIS C   6     203.660 138.362  13.870  1.00 74.36       CS3
ATOM  34448  O   HIS C   6     204.623 139.109  14.032  1.00 74.36       CS3
ATOM  34449  N   PRO C   7     202.437 138.836  13.599  1.00 71.19       CS3
ATOM  34450  CD  PRO C   7     201.212 138.036  13.762  1.00 44.05       CS3
ATOM  34451  CA  PRO C   7     202.110 140.257  13.432  1.00 71.19       CS3
ATOM  34452  CB  PRO C   7     200.594 140.258  13.373  1.00 44.05       CS3
ATOM  34453  CG  PRO C   7     200.224 139.067  14.208  1.00 44.05       CS3
ATOM  34454  C   PRO C   7     202.647 141.225  14.463  1.00 71.19       CS3
ATOM  34455  O   PRO C   7     202.603 142.433  14.248  1.00 71.19       CS3
ATOM  34456  N   ILE C   8     203.139 140.712  15.584  1.00 69.44       CS3
ATOM  34457  CA  ILE C   8     203.700 141.589  16.604  1.00 69.44       CS3
ATOM  34458  CB  ILE C   8     203.557 140.995  18.021  1.00 64.94       CS3
ATOM  34459  CG2 ILE C   8     204.351 141.816  19.015  1.00 64.94       CS3
ATOM  34460  CG1 ILE C   8     202.090 141.009  18.444  1.00 64.94       CS3
ATOM  34461  CD1 ILE C   8     201.833 140.288  19.751  1.00 64.94       CS3
ATOM  34462  C   ILE C   8     205.172 141.771  16.274  1.00 69.44       CS3
ATOM  34463  O   ILE C   8     205.593 142.855  15.865  1.00 69.44       CS3
ATOM  34464  N   GLY C   9     205.947 140.702  16.440  1.00 66.13       CS3
ATOM  34465  CA  GLY C   9     207.359 140.774  16.131  1.00 66.13       CS3
ATOM  34466  C   GLY C   9     207.559 141.431  14.777  1.00 66.13       CS3
ATOM  34467  O   GLY C   9     208.602 142.039  14.504  1.00 66.13       CS3
ATOM  34468  N   PHE C  10     206.553 141.318  13.919  1.00 47.09       CS3
ATOM  34469  CA  PHE C  10     206.641 141.911  12.598  1.00 47.09       CS3
ATOM  34470  CB  PHE C  10     205.595 141.308  11.659  1.00 45.97       CS3
ATOM  34471  CG  PHE C  10     205.665 141.856  10.255  1.00 45.97       CS3
ATOM  34472  CD1 PHE C  10     206.849 141.795   9.531  1.00 45.97       CS3
ATOM  34473  CD2 PHE C  10     204.555 142.450   9.664  1.00 45.97       CS3
ATOM  34474  CE1 PHE C  10     206.924 142.317   8.249  1.00 45.97       CS3
ATOM  34475  CE2 PHE C  10     204.626 142.976   8.373  1.00 45.97       CS3
ATOM  34476  CZ  PHE C  10     205.812 142.909   7.669  1.00 45.97       CS3
ATOM  34477  C   PHE C  10     206.456 143.420  12.644  1.00 47.09       CS3
ATOM  34478  O   PHE C  10     206.895 144.138  11.736  1.00 47.09       CS3
ATOM  34479  N   ARG C  11     205.807 143.906  13.696  1.00 77.63       CS3
ATOM  34480  CA  ARG C  11     205.571 145.335  13.815  1.00 77.63       CS3
ATOM  34481  CB  ARG C  11     204.070 145.608  13.913  1.00 55.93       CS3
ATOM  34482  CG  ARG C  11     203.310 145.257  12.651  1.00 55.93       CS3
ATOM  34483  CD  ARG C  11     201.873 144.856  12.956  1.00 55.93       CS3
ATOM  34484  NE  ARG C  11     201.296 144.019  11.903  1.00 55.93       CS3
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ATOM  34485  CZ  ARG C  11     200.967 144.460  10.693  1.00 55.93      CS3
ATOM  34486  NH1 ARG C  11     201.150 145.739  10.370  1.00 55.93      CS3
ATOM  34487  NH2 ARG C  11     200.473 143.616   9.799  1.00 55.93      CS3
ATOM  34488  C   ARG C  11     206.302 146.013  14.966  1.00 77.63      CS3
ATOM  34489  O   ARG C  11     206.205 147.226  15.112  1.00 77.63      CS3
ATOM  34490  N   LEU C  12     207.043 145.249  15.768  1.00 57.36      CS3
ATOM  34491  CA  LEU C  12     207.780 145.826  16.892  1.00 57.36      CS3
ATOM  34492  CB  LEU C  12     208.862 144.868  17.371  1.00 31.28      CS3
ATOM  34493  CG  LEU C  12     208.244 143.739  18.205  1.00 31.28      CS3
ATOM  34494  CD1 LEU C  12     209.226 142.594  18.460  1.00 31.28      CS3
ATOM  34495  CD2 LEU C  12     207.780 144.325  19.512  1.00 31.28      CS3
ATOM  34496  C   LEU C  12     208.394 147.168  16.529  1.00 57.36      CS3
ATOM  34497  O   LEU C  12     208.467 148.076  17.357  1.00 57.36      CS3
ATOM  34498  N   GLY C  13     208.824 147.302  15.282  1.00 72.48      CS3
ATOM  34499  CA  GLY C  13     209.397 148.562  14.853  1.00 72.48      CS3
ATOM  34500  C   GLY C  13     208.418 149.695  15.094  1.00 72.48      CS3
ATOM  34501  O   GLY C  13     208.765 150.714  15.679  1.00 72.48      CS3
ATOM  34502  N   ILE C  14     207.188 149.513  14.634  1.00 88.90      CS3
ATOM  34503  CA  ILE C  14     206.152 150.519  14.811  1.00 88.90      CS3
ATOM  34504  CB  ILE C  14     205.821 151.218  13.475  1.00 86.70      CS3
ATOM  34505  CG2 ILE C  14     204.928 152.434  13.720  1.00 86.70      CS3
ATOM  34506  CG1 ILE C  14     207.115 151.674  12.800  1.00 86.70      CS3
ATOM  34507  CD1 ILE C  14     207.953 152.627  13.646  1.00 86.70      CS3
ATOM  34508  C   ILE C  14     204.918 149.803  15.339  1.00 88.90      CS3
ATOM  34509  O   ILE C  14     205.052 148.829  16.071  1.00 88.90      CS3
ATOM  34510  N   THR C  15     203.735 150.295  14.974  1.00 65.32      CS3
ATOM  34511  CA  THR C  15     202.449 149.720  15.372  1.00 65.32      CS3
ATOM  34512  CB  THR C  15     201.678 149.226  14.120  1.00117.45      CS3
ATOM  34513  OG1 THR C  15     202.475 148.282  13.388  1.00117.45      CS3
ATOM  34514  CG2 THR C  15     201.352 150.394  13.215  1.00117.45      CS3
ATOM  34515  C   THR C  15     202.513 148.578  16.395  1.00 65.32      CS3
ATOM  34516  O   THR C  15     201.793 147.587  16.275  1.00 65.32      CS3
ATOM  34517  N   ARG C  16     203.361 148.733  17.407  1.00 59.90      CS3
ATOM  34518  CA  ARG C  16     203.544 147.734  18.454  1.00 59.90      CS3
ATOM  34519  CB  ARG C  16     203.590 146.327  17.868  1.00106.62      CS3
ATOM  34520  CG  ARG C  16     203.424 145.242  18.904  1.00106.62      CS3
ATOM  34521  CD  ARG C  16     202.014 145.247  19.453  1.00106.62      CS3
ATOM  34522  NE  ARG C  16     201.845 144.264  20.514  1.00106.62      CS3
ATOM  34523  CZ  ARG C  16     200.679 143.984  21.082  1.00106.62      CS3
ATOM  34524  NH1 ARG C  16     199.584 144.618  20.682  1.00106.62      CS3
ATOM  34525  NH2 ARG C  16     200.607 143.079  22.050  1.00106.62      CS3
ATOM  34526  C   ARG C  16     204.869 148.029  19.146  1.00 59.90      CS3
ATOM  34527  O   ARG C  16     205.826 148.473  18.506  1.00 59.90      CS3
ATOM  34528  N   ASP C  17     204.922 147.781  20.453  1.00 78.62      CS3
ATOM  34529  CA  ASP C  17     206.124 148.040  21.235  1.00 78.62      CS3
ATOM  34530  CB  ASP C  17     205.960 149.332  22.034  1.00122.05      CS3
ATOM  34531  CG  ASP C  17     207.178 149.658  22.869  1.00122.05      CS3
ATOM  34532  OD1 ASP C  17     207.515 148.860  23.770  1.00122.05      CS3
ATOM  34533  OD2 ASP C  17     207.799 150.713  22.623  1.00122.05      CS3
ATOM  34534  C   ASP C  17     206.416 146.895  22.183  1.00 78.62      CS3
ATOM  34535  O   ASP C  17     205.500 146.210  22.639  1.00 78.62      CS3
ATOM  34536  N   TRP C  18     207.700 146.709  22.479  1.00 80.12      CS3
ATOM  34537  CA  TRP C  18     208.176 145.643  23.365  1.00 80.12      CS3
ATOM  34538  CB  TRP C  18     209.669 145.831  23.657  1.00 72.49      CS3
ATOM  34539  CG  TRP C  18     210.588 145.581  22.481  1.00 72.49      CS3
ATOM  34540  CD2 TRP C  18     210.829 146.462  21.381  1.00 72.49      CS3
ATOM  34541  CE2 TRP C  18     211.781 145.839  20.547  1.00 72.49      CS3
ATOM  34542  CE3 TRP C  18     210.334 147.718  21.020  1.00 72.49      CS3
ATOM  34543  CD1 TRP C  18     211.380 144.484  22.271  1.00 72.49      CS3
ATOM  34544  NE1 TRP C  18     212.101 144.634  21.113  1.00 72.49      CS3
ATOM  34545  CZ2 TRP C  18     212.246 146.430  19.376  1.00 72.49      CS3
ATOM  34546  CZ3 TRP C  18     210.798 148.308  19.852  1.00 72.49      CS3
ATOM  34547  CH2 TRP C  18     211.745 147.663  19.044  1.00 72.49      CS3
ATOM  34548  C   TRP C  18     207.430 145.509  24.692  1.00 80.12      CS3
ATOM  34549  O   TRP C  18     206.767 146.439  25.151  1.00 80.12      CS3
ATOM  34550  N   GLU C  19     207.560 144.331  25.294  1.00 59.26      CS3
ATOM  34551  CA  GLU C  19     206.931 144.008  26.566  1.00 59.26      CS3
ATOM  34552  CB  GLU C  19     206.067 142.748  26.424  1.00152.46      CS3
ATOM  34553  CG  GLU C  19     204.781 142.961  25.625  1.00152.46      CS3
ATOM  34554  CD  GLU C  19     204.043 141.664  25.309  1.00152.46      CS3
ATOM  34555  OE1 GLU C  19     203.846 140.842  26.231  1.00152.46      CS3
ATOM  34556  OE2 GLU C  19     203.650 141.474  24.135  1.00152.46      CS3
ATOM  34557  C   GLU C  19     208.027 143.784  27.603  1.00 59.26      CS3
ATOM  34558  O   GLU C  19     207.880 142.971  28.517  1.00 59.26      CS3
ATOM  34559  N   SER C  20     209.129 144.508  27.425  1.00 77.42      CS3
ATOM  34560  CA  SER C  20     210.305 144.475  28.304  1.00 77.42      CS3
ATOM  34561  CB  SER C  20     210.999 143.106  28.293  1.00 34.23      CS3
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ATOM  34562  OG  SER C  20     210.369 142.159  29.148  1.00 34.23      CS3
ATOM  34563  C   SER C  20     211.259 145.513  27.738  1.00 77.42      CS3
ATOM  34564  O   SER C  20     212.174 145.180  26.990  1.00 77.42      CS3
ATOM  34565  N   ARG C  21     211.034 146.774  28.091  1.00130.78      CS3
ATOM  34566  CA  ARG C  21     211.852 147.878  27.597  1.00130.78      CS3
ATOM  34567  CB  ARG C  21     210.933 149.028  27.183  1.00134.63      CS3
ATOM  34568  CG  ARG C  21     209.587 149.003  27.894  1.00134.63      CS3
ATOM  34569  CD  ARG C  21     208.605 149.984  27.283  1.00134.63      CS3
ATOM  34570  NE  ARG C  21     207.252 149.782  27.795  1.00134.63      CS3
ATOM  34571  CZ  ARG C  21     206.191 150.471  27.389  1.00134.63      CS3
ATOM  34572  NH1 ARG C  21     206.322 151.413  26.464  1.00134.63      CS3
ATOM  34573  NH2 ARG C  21     204.997 150.217  27.907  1.00134.63      CS3
ATOM  34574  C   ARG C  21     212.921 148.379  28.570  1.00130.78      CS3
ATOM  34575  O   ARG C  21     212.774 149.435  29.184  1.00130.78      CS3
ATOM  34576  N   TRP C  22     214.003 147.614  28.689  1.00 82.85      CS3
ATOM  34577  CA  TRP C  22     215.112 147.963  29.568  1.00 82.85      CS3
ATOM  34578  CB  TRP C  22     214.963 147.269  30.915  1.00 80.35      CS3
ATOM  34579  CG  TRP C  22     214.531 145.863  30.807  1.00 80.35      CS3
ATOM  34580  CD2 TRP C  22     215.359 144.725  30.559  1.00 80.35      CS3
ATOM  34581  CE2 TRP C  22     214.517 143.592  30.545  1.00 80.35      CS3
ATOM  34582  CE3 TRP C  22     216.729 144.549  30.345  1.00 80.35      CS3
ATOM  34583  CD1 TRP C  22     213.260 145.394  30.926  1.00 80.35      CS3
ATOM  34584  NE1 TRP C  22     213.240 144.030  30.774  1.00 80.35      CS3
ATOM  34585  CZ2 TRP C  22     215.001 142.297  30.326  1.00 80.35      CS3
ATOM  34586  CZ3 TRP C  22     217.211 143.260  30.124  1.00 80.35      CS3
ATOM  34587  CH2 TRP C  22     216.345 142.151  30.116  1.00 80.35      CS3
ATOM  34588  C   TRP C  22     216.456 147.575  28.972  1.00 82.85      CS3
ATOM  34589  O   TRP C  22     216.659 146.425  28.603  1.00 82.85      CS3
ATOM  34590  N   TYR C  23     217.370 148.538  28.886  1.00 73.97      CS3
ATOM  34591  CA  TYR C  23     218.702 148.284  28.347  1.00 73.97      CS3
ATOM  34592  CB  TYR C  23     219.372 149.602  27.932  1.00 91.21      CS3
ATOM  34593  CG  TYR C  23     220.857 149.464  27.651  1.00 91.21      CS3
ATOM  34594  CD1 TYR C  23     221.365 149.584  26.358  1.00 91.21      CS3
ATOM  34595  CE1 TYR C  23     222.732 149.407  26.106  1.00 91.21      CS3
ATOM  34596  CD2 TYR C  23     221.751 149.171  28.682  1.00 91.21      CS3
ATOM  34597  CE2 TYR C  23     223.105 148.989  28.443  1.00 91.21      CS3
ATOM  34598  CZ  TYR C  23     223.595 149.107  27.161  1.00 91.21      CS3
ATOM  34599  OH  TYR C  23     224.943 148.911  26.955  1.00 91.21      CS3
ATOM  34600  C   TYR C  23     219.595 147.556  29.360  1.00 73.97      CS3
ATOM  34601  O   TYR C  23     219.528 147.803  30.558  1.00 73.97      CS3
ATOM  34602  N   ALA C  24     220.439 146.662  28.864  1.00 74.42      CS3
ATOM  34603  CA  ALA C  24     221.361 145.924  29.713  1.00 74.42      CS3
ATOM  34604  CB  ALA C  24     220.704 144.656  30.248  1.00 57.78      CS3
ATOM  34605  C   ALA C  24     222.572 145.590  28.850  1.00 74.42      CS3
ATOM  34606  O   ALA C  24     222.746 146.181  27.786  1.00 74.42      CS3
ATOM  34607  N   GLY C  25     223.404 144.649  29.285  1.00 71.52      CS3
ATOM  34608  CA  GLY C  25     224.584 144.330  28.501  1.00 71.52      CS3
ATOM  34609  C   GLY C  25     225.090 142.906  28.570  1.00 71.52      CS3
ATOM  34610  O   GLY C  25     224.736 142.142  29.465  1.00 71.52      CS3
ATOM  34611  N   LYS C  26     225.949 142.577  27.609  1.00 45.61      CS3
ATOM  34612  CA  LYS C  26     226.548 141.253  27.458  1.00 45.61      CS3
ATOM  34613  CB  LYS C  26     227.922 141.367  26.772  1.00106.60      CS3
ATOM  34614  CG  LYS C  26     228.579 142.750  26.833  1.00106.60      CS3
ATOM  34615  CD  LYS C  26     227.926 143.737  25.862  1.00106.60      CS3
ATOM  34616  CE  LYS C  26     228.603 145.104  25.897  1.00106.60      CS3
ATOM  34617  NZ  LYS C  26     227.982 146.080  24.946  1.00106.60      CS3
ATOM  34618  C   LYS C  26     226.683 140.408  28.719  1.00 45.61      CS3
ATOM  34619  O   LYS C  26     226.580 139.180  28.655  1.00 45.61      CS3
ATOM  34620  N   LYS C  27     226.903 141.054  29.859  1.00 84.84      CS3
ATOM  34621  CA  LYS C  27     227.080 140.328  31.111  1.00 84.84      CS3
ATOM  34622  CB  LYS C  27     228.045 141.094  32.022  1.00194.61      CS3
ATOM  34623  CG  LYS C  27     229.410 141.371  31.406  1.00194.61      CS3
ATOM  34624  CD  LYS C  27     230.307 142.152  32.360  1.00194.61      CS3
ATOM  34625  CE  LYS C  27     231.676 142.412  31.746  1.00194.61      CS3
ATOM  34626  NZ  LYS C  27     232.566 143.180  32.660  1.00194.61      CS3
ATOM  34627  C   LYS C  27     225.782 140.068  31.869  1.00 84.84      CS3
ATOM  34628  O   LYS C  27     225.642 139.049  32.551  1.00 84.84      CS3
ATOM  34629  N   GLN C  28     224.830 140.985  31.744  1.00114.11      CS3
ATOM  34630  CA  GLN C  28     223.575 140.857  32.465  1.00114.11      CS3
ATOM  34631  CB  GLN C  28     223.273 142.170  33.180  1.00161.92      CS3
ATOM  34632  CG  GLN C  28     224.458 142.754  33.915  1.00161.92      CS3
ATOM  34633  CD  GLN C  28     224.139 144.095  34.529  1.00161.92      CS3
ATOM  34634  OE1 GLN C  28     223.365 144.185  35.481  1.00161.92      CS3
ATOM  34635  NE2 GLN C  28     224.724 145.152  33.978  1.00161.92      CS3
ATOM  34636  C   GLN C  28     222.363 140.456  31.635  1.00114.11      CS3
ATOM  34637  O   GLN C  28     221.576 139.621  32.069  1.00114.11      CS3
ATOM  34638  N   TYR C  29     222.214 141.055  30.454  1.00 98.80      CS3
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ATOM  34639  CA  TYR C  29     221.074 140.785  29.575  1.00 98.80      CS3
ATOM  34640  CB  TYR C  29     221.454 141.043  28.107  1.00 55.87      CS3
ATOM  34641  CG  TYR C  29     220.257 141.246  27.183  1.00 55.87      CS3
ATOM  34642  CD1 TYR C  29     220.162 142.381  26.371  1.00 55.87      CS3
ATOM  34643  CE1 TYR C  29     219.064 142.582  25.532  1.00 55.87      CS3
ATOM  34644  CD2 TYR C  29     219.216 140.310  27.126  1.00 55.87      CS3
ATOM  34645  CE2 TYR C  29     218.119 140.500  26.294  1.00 55.87      CS3
ATOM  34646  CZ  TYR C  29     218.046 141.638  25.500  1.00 55.87      CS3
ATOM  34647  OH  TYR C  29     216.947 141.837  24.691  1.00 55.87      CS3
ATOM  34648  C   TYR C  29     220.468 139.386  29.717  1.00 98.80      CS3
ATOM  34649  O   TYR C  29     219.256 139.250  29.887  1.00 98.80      CS3
ATOM  34650  N   ARG C  30     221.294 138.346  29.660  1.00 73.79      CS3
ATOM  34651  CA  ARG C  30     220.763 136.991  29.783  1.00 73.79      CS3
ATOM  34652  CB  ARG C  30     221.818 135.952  29.394  1.00109.47      CS3
ATOM  34653  CG  ARG C  30     222.893 135.717  30.425  1.00109.47      CS3
ATOM  34654  CD  ARG C  30     223.666 134.455  30.095  1.00109.47      CS3
ATOM  34655  NE  ARG C  30     224.838 134.301  30.948  1.00109.47      CS3
ATOM  34656  CZ  ARG C  30     225.875 135.136  30.952  1.00109.47      CS3
ATOM  34657  NH1 ARG C  30     225.887 136.187  30.141  1.00109.47      CS3
ATOM  34658  NH2 ARG C  30     226.898 134.925  31.771  1.00109.47      CS3
ATOM  34659  C   ARG C  30     220.233 136.674  31.180  1.00 73.79      CS3
ATOM  34660  O   ARG C  30     219.848 135.542  31.464  1.00 73.79      CS3
ATOM  34661  N   HIS C  31     220.211 137.683  32.044  1.00 83.48      CS3
ATOM  34662  CA  HIS C  31     219.728 137.536  33.417  1.00 83.48      CS3
ATOM  34663  CB  HIS C  31     220.782 138.047  34.395  1.00 73.97      CS3
ATOM  34664  CG  HIS C  31     222.084 137.317  34.314  1.00 73.97      CS3
ATOM  34665  CD2 HIS C  31     223.309 137.722  33.902  1.00 73.97      CS3
ATOM  34666  ND1 HIS C  31     222.224 136.002  34.703  1.00 73.97      CS3
ATOM  34667  CE1 HIS C  31     223.481 135.629  34.538  1.00 73.97      CS3
ATOM  34668  NE2 HIS C  31     224.160 136.654  34.053  1.00 73.97      CS3
ATOM  34669  C   HIS C  31     218.447 138.342  33.588  1.00 83.48      CS3
ATOM  34670  O   HIS C  31     217.401 137.805  33.957  1.00 83.48      CS3
ATOM  34671  N   LEU C  32     218.552 139.640  33.321  1.00 81.76      CS3
ATOM  34672  CA  LEU C  32     217.417 140.540  33.410  1.00 81.76      CS3
ATOM  34673  CB  LEU C  32     217.843 141.961  33.057  1.00 99.25      CS3
ATOM  34674  CG  LEU C  32     218.608 142.709  34.147  1.00 99.25      CS3
ATOM  34675  CD1 LEU C  32     219.751 141.850  34.663  1.00 99.25      CS3
ATOM  34676  CD2 LEU C  32     219.118 144.029  33.589  1.00 99.25      CS3
ATOM  34677  C   LEU C  32     216.331 140.069  32.456  1.00 81.76      CS3
ATOM  34678  O   LEU C  32     215.158 140.407  32.613  1.00 81.76      CS3
ATOM  34679  N   LEU C  33     216.723 139.292  31.455  1.00104.69      CS3
ATOM  34680  CA  LEU C  33     215.747 138.766  30.522  1.00104.69      CS3
ATOM  34681  CB  LEU C  33     216.423 138.199  29.280  1.00 84.22      CS3
ATOM  34682  CG  LEU C  33     215.482 137.690  28.186  1.00 84.22      CS3
ATOM  34683  CD1 LEU C  33     216.256 137.572  26.901  1.00 84.22      CS3
ATOM  34684  CD2 LEU C  33     214.881 136.353  28.574  1.00 84.22      CS3
ATOM  34685  C   LEU C  33     215.029 137.660  31.267  1.00104.69      CS3
ATOM  34686  O   LEU C  33     213.848 137.787  31.582  1.00104.69      CS3
ATOM  34687  N   LEU C  34     215.749 136.583  31.564  1.00 61.54      CS3
ATOM  34688  CA  LEU C  34     215.155 135.467  32.281  1.00 61.54      CS3
ATOM  34689  CB  LEU C  34     216.224 134.560  32.879  1.00 31.99      CS3
ATOM  34690  CG  LEU C  34     215.660 133.358  33.651  1.00 31.99      CS3
ATOM  34691  CD1 LEU C  34     216.774 132.376  34.005  1.00 31.99      CS3
ATOM  34692  CD2 LEU C  34     214.986 133.824  34.929  1.00 31.99      CS3
ATOM  34693  C   LEU C  34     214.251 135.946  33.401  1.00 61.54      CS3
ATOM  34694  O   LEU C  34     213.117 135.486  33.522  1.00 61.54      CS3
ATOM  34695  N   GLU C  35     214.753 136.853  34.238  1.00 91.86      CS3
ATOM  34696  CA  GLU C  35     213.958 137.349  35.355  1.00 91.86      CS3
ATOM  34697  CB  GLU C  35     214.600 138.571  35.995  1.00 92.90      CS3
ATOM  34698  CG  GLU C  35     213.927 138.964  37.296  1.00 92.90      CS3
ATOM  34699  CD  GLU C  35     214.499 140.230  37.900  1.00 92.90      CS3
ATOM  34700  OE1 GLU C  35     215.709 140.252  38.216  1.00 92.90      CS3
ATOM  34701  OE2 GLU C  35     213.733 141.204  38.058  1.00 92.90      CS3
ATOM  34702  C   GLU C  35     212.562 137.708  34.893  1.00 91.86      CS3
ATOM  34703  O   GLU C  35     211.583 137.201  35.438  1.00 91.86      CS3
ATOM  34704  N   ASP C  36     212.473 138.579  33.888  1.00 62.61      CS3
ATOM  34705  CA  ASP C  36     211.171 138.968  33.363  1.00 62.61      CS3
ATOM  34706  CB  ASP C  36     211.291 139.597  31.977  1.00 90.41      CS3
ATOM  34707  CG  ASP C  36     212.000 140.923  32.001  1.00 90.41      CS3
ATOM  34708  OD1 ASP C  36     211.887 141.667  31.006  1.00 90.41      CS3
ATOM  34709  OD2 ASP C  36     212.674 141.220  33.009  1.00 90.41      CS3
ATOM  34710  C   ASP C  36     210.306 137.727  33.259  1.00 62.61      CS3
ATOM  34711  O   ASP C  36     209.228 137.660  33.842  1.00 62.61      CS3
ATOM  34712  N   GLN C  37     210.789 136.737  32.516  1.00 64.01      CS3
ATOM  34713  CA  GLN C  37     210.050 135.492  32.351  1.00 64.01      CS3
ATOM  34714  CB  GLN C  37     210.929 134.436  31.664  1.00 84.38      CS3
ATOM  34715  CG  GLN C  37     210.734 134.355  30.154  1.00 84.38      CS3
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ATOM  34716  CD  GLN C  37     210.770 135.715  29.488  1.00 84.38       CS3
ATOM  34717  OE1 GLN C  37     211.792 136.394  29.496  1.00 84.38       CS3
ATOM  34718  NE2 GLN C  37     209.648 136.121  28.910  1.00 84.38       CS3
ATOM  34719  C   GLN C  37     209.548 134.982  33.699  1.00 64.01       CS3
ATOM  34720  O   GLN C  37     208.339 134.933  33.921  1.00 64.01       CS3
ATOM  34721  N   ARG C  38     210.469 134.620  34.593  1.00 61.00       CS3
ATOM  34722  CA  ARG C  38     210.101 134.129  35.919  1.00 61.00       CS3
ATOM  34723  CB  ARG C  38     211.294 134.220  36.869  1.00153.01       CS3
ATOM  34724  CG  ARG C  38     212.432 133.282  36.537  1.00153.01       CS3
ATOM  34725  CD  ARG C  38     212.064 131.828  36.789  1.00153.01       CS3
ATOM  34726  NE  ARG C  38     213.128 130.908  36.379  1.00153.01       CS3
ATOM  34727  CZ  ARG C  38     214.345 130.864  36.918  1.00153.01       CS3
ATOM  34728  NH1 ARG C  38     214.674 131.690  37.903  1.00153.01       CS3
ATOM  34729  NH2 ARG C  38     215.239 129.991  36.467  1.00153.01       CS3
ATOM  34730  C   ARG C  38     208.952 134.972  36.473  1.00 61.00       CS3
ATOM  34731  O   ARG C  38     208.000 134.451  37.067  1.00 61.00       CS3
ATOM  34732  N   ILE C  39     209.051 136.282  36.259  1.00 56.13       CS3
ATOM  34733  CA  ILE C  39     208.042 137.222  36.724  1.00 56.13       CS3
ATOM  34734  CB  ILE C  39     208.506 138.680  36.483  1.00 76.04       CS3
ATOM  34735  CG2 ILE C  39     207.350 139.642  36.664  1.00 76.04       CS3
ATOM  34736  CG1 ILE C  39     209.650 139.021  37.443  1.00 76.04       CS3
ATOM  34737  CD1 ILE C  39     210.217 140.424  37.267  1.00 76.04       CS3
ATOM  34738  C   ILE C  39     206.702 136.980  36.034  1.00 56.13       CS3
ATOM  34739  O   ILE C  39     205.811 136.348  36.601  1.00 56.13       CS3
ATOM  34740  N   ARG C  40     206.566 137.485  34.812  1.00 83.62       CS3
ATOM  34741  CA  ARG C  40     205.340 137.323  34.037  1.00 83.62       CS3
ATOM  34742  CB  ARG C  40     205.542 137.882  32.630  1.00 64.72       CS3
ATOM  34743  CG  ARG C  40     206.938 137.636  32.077  1.00 64.72       CS3
ATOM  34744  CD  ARG C  40     206.966 137.809  30.586  1.00 64.72       CS3
ATOM  34745  NE  ARG C  40     206.364 139.067  30.166  1.00 64.72       CS3
ATOM  34746  CZ  ARG C  40     207.053 140.146  29.814  1.00 64.72       CS3
ATOM  34747  NH1 ARG C  40     208.385 140.129  29.834  1.00 64.72       CS3
ATOM  34748  NH2 ARG C  40     206.407 141.236  29.417  1.00 64.72       CS3
ATOM  34749  C   ARG C  40     204.931 135.854  33.963  1.00 83.62       CS3
ATOM  34750  O   ARG C  40     203.835 135.525  33.508  1.00 83.62       CS3
ATOM  34751  N   GLY C  41     205.823 134.977  34.413  1.00 62.48       CS3
ATOM  34752  CA  GLY C  41     205.537 133.554  34.416  1.00 62.48       CS3
ATOM  34753  C   GLY C  41     204.659 133.186  35.598  1.00 62.48       CS3
ATOM  34754  O   GLY C  41     203.875 132.239  35.532  1.00 62.48       CS3
ATOM  34755  N   LEU C  42     204.804 133.932  36.691  1.00 82.10       CS3
ATOM  34756  CA  LEU C  42     204.004 133.704  37.888  1.00 82.10       CS3
ATOM  34757  CB  LEU C  42     204.781 134.099  39.141  1.00167.28       CS3
ATOM  34758  CG  LEU C  42     206.128 133.398  39.314  1.00167.28       CS3
ATOM  34759  CD1 LEU C  42     206.695 133.741  40.682  1.00167.28       CS3
ATOM  34760  CD2 LEU C  42     205.959 131.890  39.166  1.00167.28       CS3
ATOM  34761  C   LEU C  42     202.770 134.570  37.752  1.00 82.10       CS3
ATOM  34762  O   LEU C  42     201.660 134.137  38.047  1.00 82.10       CS3
ATOM  34763  N   LEU C  43     202.976 135.797  37.287  1.00 67.65       CS3
ATOM  34764  CA  LEU C  43     201.883 136.735  37.080  1.00 67.65       CS3
ATOM  34765  CB  LEU C  43     202.414 138.040  36.506  1.00 67.84       CS3
ATOM  34766  CG  LEU C  43     203.083 138.972  37.495  1.00 67.84       CS3
ATOM  34767  CD1 LEU C  43     203.698 140.111  36.736  1.00 67.84       CS3
ATOM  34768  CD2 LEU C  43     202.054 139.483  38.488  1.00 67.84       CS3
ATOM  34769  C   LEU C  43     200.847 136.163  36.125  1.00 67.65       CS3
ATOM  34770  O   LEU C  43     199.811 136.785  35.867  1.00 67.65       CS3
ATOM  34771  N   GLU C  44     201.140 134.986  35.583  1.00113.35       CS3
ATOM  34772  CA  GLU C  44     200.232 134.319  34.663  1.00113.35       CS3
ATOM  34773  CB  GLU C  44     201.004 133.805  33.450  1.00132.34       CS3
ATOM  34774  CG  GLU C  44     200.686 134.561  32.176  1.00132.34       CS3
ATOM  34775  CD  GLU C  44     201.836 134.560  31.194  1.00132.34       CS3
ATOM  34776  OE1 GLU C  44     202.405 133.473  30.944  1.00132.34       CS3
ATOM  34777  OE2 GLU C  44     202.168 135.646  30.666  1.00132.34       CS3
ATOM  34778  C   GLU C  44     199.538 133.174  35.382  1.00113.35       CS3
ATOM  34779  O   GLU C  44     198.312 133.109  35.416  1.00113.35       CS3
ATOM  34780  N   LYS C  45     200.328 132.282  35.971  1.00110.51       CS3
ATOM  34781  CA  LYS C  45     199.781 131.147  36.704  1.00110.51       CS3
ATOM  34782  CB  LYS C  45     200.902 130.195  37.130  1.00200.96       CS3
ATOM  34783  CG  LYS C  45     201.598 129.488  35.973  1.00200.96       CS3
ATOM  34784  CD  LYS C  45     200.641 128.570  35.218  1.00200.96       CS3
ATOM  34785  CE  LYS C  45     201.355 127.826  34.097  1.00200.96       CS3
ATOM  34786  NZ  LYS C  45     200.437 126.925  33.345  1.00200.96       CS3
ATOM  34787  C   LYS C  45     199.024 131.635  37.934  1.00110.51       CS3
ATOM  34788  O   LYS C  45     198.656 130.844  38.806  1.00110.51       CS3
ATOM  34789  N   GLU C  46     198.798 132.945  37.995  1.00 99.61       CS3
ATOM  34790  CA  GLU C  46     198.078 133.558  39.102  1.00 99.61       CS3
ATOM  34791  CB  GLU C  46     199.024 134.413  39.945  1.00171.56       CS3
ATOM  34792  CG  GLU C  46     199.939 133.615  40.850  1.00171.56       CS3
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ATOM  34793  CD  GLU C  46     199.183 132.914  41.959  1.00171.56      CS3
ATOM  34794  OE1 GLU C  46     198.580 133.615  42.800  1.00171.56      CS3
ATOM  34795  OE2 GLU C  46     199.189 131.665  41.988  1.00171.56      CS3
ATOM  34796  C   GLU C  46     196.937 134.427  38.600  1.00 99.61      CS3
ATOM  34797  O   GLU C  46     195.782 134.001  38.563  1.00 99.61      CS3
ATOM  34798  N   LEU C  47     197.282 135.644  38.198  1.00 58.23      CS3
ATOM  34799  CA  LEU C  47     196.313 136.625  37.718  1.00 58.23      CS3
ATOM  34800  CB  LEU C  47     197.033 137.944  37.400  1.00 57.79      CS3
ATOM  34801  CG  LEU C  47     197.880 138.646  38.465  1.00 57.79      CS3
ATOM  34802  CD1 LEU C  47     199.037 137.746  38.915  1.00 57.79      CS3
ATOM  34803  CD2 LEU C  47     198.413 139.946  37.881  1.00 57.79      CS3
ATOM  34804  C   LEU C  47     195.459 136.238  36.498  1.00 58.23      CS3
ATOM  34805  O   LEU C  47     194.882 137.120  35.846  1.00 58.23      CS3
ATOM  34806  N   TYR C  48     195.362 134.947  36.184  1.00 65.14      CS3
ATOM  34807  CA  TYR C  48     194.582 134.523  35.018  1.00 65.14      CS3
ATOM  34808  CB  TYR C  48     194.470 132.995  34.980  1.00106.67      CS3
ATOM  34809  CG  TYR C  48     193.533 132.466  33.909  1.00106.67      CS3
ATOM  34810  CD1 TYR C  48     193.484 133.053  32.641  1.00106.67      CS3
ATOM  34811  CE1 TYR C  48     192.629 132.564  31.655  1.00106.67      CS3
ATOM  34812  CD2 TYR C  48     192.703 131.372  34.161  1.00106.67      CS3
ATOM  34813  CE2 TYR C  48     191.848 130.877  33.181  1.00106.67      CS3
ATOM  34814  CZ  TYR C  48     191.815 131.478  31.933  1.00106.67      CS3
ATOM  34815  OH  TYR C  48     190.959 131.001  30.971  1.00106.67      CS3
ATOM  34816  C   TYR C  48     193.192 135.139  35.013  1.00 65.14      CS3
ATOM  34817  O   TYR C  48     192.761 135.759  34.029  1.00 65.14      CS3
ATOM  34818  N   SER C  49     192.519 134.964  36.146  1.00 92.27      CS3
ATOM  34819  CA  SER C  49     191.163 135.440  36.391  1.00 92.27      CS3
ATOM  34820  CB  SER C  49     190.733 134.970  37.773  1.00108.06      CS3
ATOM  34821  OG  SER C  49     191.766 135.232  38.707  1.00108.06      CS3
ATOM  34822  C   SER C  49     190.954 136.945  36.286  1.00 92.27      CS3
ATOM  34823  O   SER C  49     189.830 137.406  36.149  1.00 92.27      CS3
ATOM  34824  N   ALA C  50     192.029 137.713  36.360  1.00 71.18      CS3
ATOM  34825  CA  ALA C  50     191.908 139.162  36.273  1.00 71.18      CS3
ATOM  34826  CB  ALA C  50     193.031 139.820  37.052  1.00138.01      CS3
ATOM  34827  C   ALA C  50     191.935 139.630  34.826  1.00 71.18      CS3
ATOM  34828  O   ALA C  50     191.799 140.825  34.547  1.00 71.18      CS3
ATOM  34829  N   GLY C  51     192.113 138.681  33.910  1.00143.03      CS3
ATOM  34830  CA  GLY C  51     192.164 139.009  32.496  1.00143.03      CS3
ATOM  34831  C   GLY C  51     193.437 139.754  32.142  1.00143.03      CS3
ATOM  34832  O   GLY C  51     193.401 140.943  31.820  1.00143.03      CS3
ATOM  34833  N   LEU C  52     194.565 139.050  32.196  1.00 70.22      CS3
ATOM  34834  CA  LEU C  52     195.865 139.649  31.899  1.00 70.22      CS3
ATOM  34835  CB  LEU C  52     196.972 138.842  32.581  1.00134.39      CS3
ATOM  34836  CG  LEU C  52     197.180 137.395  32.130  1.00134.39      CS3
ATOM  34837  CD1 LEU C  52     198.271 136.783  32.986  1.00134.39      CS3
ATOM  34838  CD2 LEU C  52     195.890 136.587  32.255  1.00134.39      CS3
ATOM  34839  C   LEU C  52     196.167 139.771  30.409  1.00 70.22      CS3
ATOM  34840  O   LEU C  52     196.291 138.767  29.713  1.00 70.22      CS3
ATOM  34841  N   ALA C  53     196.280 141.009  29.930  1.00 83.75      CS3
ATOM  34842  CA  ALA C  53     196.586 141.275  28.525  1.00 83.75      CS3
ATOM  34843  CB  ALA C  53     195.996 142.609  28.095  1.00 42.46      CS3
ATOM  34844  C   ALA C  53     198.097 141.311  28.377  1.00 83.75      CS3
ATOM  34845  O   ALA C  53     198.733 140.273  28.179  1.00 83.75      CS3
ATOM  34846  N   ARG C  54     198.668 142.511  28.468  1.00 82.45      CS3
ATOM  34847  CA  ARG C  54     200.113 142.671  28.383  1.00 82.45      CS3
ATOM  34848  CB  ARG C  54     200.483 143.963  27.643  1.00 93.87      CS3
ATOM  34849  CG  ARG C  54     201.976 144.082  27.361  1.00 93.87      CS3
ATOM  34850  CD  ARG C  54     202.383 145.455  26.838  1.00 93.87      CS3
ATOM  34851  NE  ARG C  54     202.094 145.651  25.419  1.00 93.87      CS3
ATOM  34852  CZ  ARG C  54     202.407 146.754  24.738  1.00 93.87      CS3
ATOM  34853  NH1 ARG C  54     203.020 147.764  25.346  1.00 93.87      CS3
ATOM  34854  NH2 ARG C  54     202.111 146.852  23.447  1.00 93.87      CS3
ATOM  34855  C   ARG C  54     200.666 142.703  29.812  1.00 82.45      CS3
ATOM  34856  O   ARG C  54     199.910 142.786  30.783  1.00 82.45      CS3
ATOM  34857  N   VAL C  55     201.985 142.630  29.931  1.00 60.33      CS3
ATOM  34858  CA  VAL C  55     202.661 142.632  31.225  1.00 60.33      CS3
ATOM  34859  CB  VAL C  55     202.893 141.174  31.721  1.00 69.99      CS3
ATOM  34860  CG1 VAL C  55     203.804 141.152  32.939  1.00 69.99      CS3
ATOM  34861  CG2 VAL C  55     201.558 140.524  32.053  1.00 69.99      CS3
ATOM  34862  C   VAL C  55     204.000 143.321  31.030  1.00 60.33      CS3
ATOM  34863  O   VAL C  55     205.044 142.676  31.059  1.00 60.33      CS3
ATOM  34864  N   ASP C  56     203.964 144.633  30.815  1.00 82.80      CS3
ATOM  34865  CA  ASP C  56     205.185 145.403  30.595  1.00 82.80      CS3
ATOM  34866  CB  ASP C  56     204.871 146.894  30.471  1.00128.21      CS3
ATOM  34867  CG  ASP C  56     203.686 147.168  29.583  1.00128.21      CS3
ATOM  34868  OD1 ASP C  56     202.611 146.591  29.845  1.00128.21      CS3
ATOM  34869  OD2 ASP C  56     203.823 147.964  28.632  1.00128.21      CS3
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ATOM  34870  C   ASP C  56     206.156 145.225  31.749  1.00 82.80      CS3
ATOM  34871  O   ASP C  56     205.761 144.869  32.859  1.00 82.80      CS3
ATOM  34872  N   ILE C  57     207.432 145.464  31.472  1.00 96.14      CS3
ATOM  34873  CA  ILE C  57     208.468 145.394  32.493  1.00 96.14      CS3
ATOM  34874  CB  ILE C  57     209.094 143.984  32.642  1.00 49.24      CS3
ATOM  34875  CG2 ILE C  57     210.343 144.069  33.540  1.00 49.24      CS3
ATOM  34876  CG1 ILE C  57     208.075 143.007  33.245  1.00 49.24      CS3
ATOM  34877  CD1 ILE C  57     208.690 141.732  33.862  1.00 49.24      CS3
ATOM  34878  C   ILE C  57     209.568 146.377  32.123  1.00 96.14      CS3
ATOM  34879  O   ILE C  57     210.165 146.287  31.052  1.00 96.14      CS3
ATOM  34880  N   GLU C  58     209.812 147.330  33.014  1.00 94.01      CS3
ATOM  34881  CA  GLU C  58     210.839 148.339  32.809  1.00 94.01      CS3
ATOM  34882  CB  GLU C  58     210.211 149.730  32.821  1.00 96.55      CS3
ATOM  34883  CG  GLU C  58     209.151 149.928  31.760  1.00 96.55      CS3
ATOM  34884  CD  GLU C  58     208.396 151.230  31.930  1.00 96.55      CS3
ATOM  34885  OE1 GLU C  58     207.707 151.382  32.964  1.00 96.55      CS3
ATOM  34886  OE2 GLU C  58     208.489 152.100  31.034  1.00 96.55      CS3
ATOM  34887  C   GLU C  58     211.828 148.206  33.953  1.00 94.01      CS3
ATOM  34888  O   GLU C  58     211.431 147.981  35.092  1.00 94.01      CS3
ATOM  34889  N   ARG C  59     213.114 148.338  33.658  1.00 84.06      CS3
ATOM  34890  CA  ARG C  59     214.121 148.214  34.698  1.00 84.06      CS3
ATOM  34891  CB  ARG C  59     214.921 146.929  34.517  1.00 61.37      CS3
ATOM  34892  CG  ARG C  59     214.140 145.665  34.763  1.00 61.37      CS3
ATOM  34893  CD  ARG C  59     214.891 144.498  34.164  1.00 61.37      CS3
ATOM  34894  NE  ARG C  59     214.207 143.228  34.354  1.00 61.37      CS3
ATOM  34895  CZ  ARG C  59     214.341 142.467  35.432  1.00 61.37      CS3
ATOM  34896  NH1 ARG C  59     215.136 142.849  36.420  1.00 61.37      CS3
ATOM  34897  NH2 ARG C  59     213.690 141.316  35.511  1.00 61.37      CS3
ATOM  34898  C   ARG C  59     215.077 149.385  34.735  1.00 84.06      CS3
ATOM  34899  O   ARG C  59     215.278 150.078  33.732  1.00 84.06      CS3
ATOM  34900  N   ALA C  60     215.671 149.585  35.908  1.00181.24      CS3
ATOM  34901  CA  ALA C  60     216.624 150.658  36.131  1.00181.24      CS3
ATOM  34902  CB  ALA C  60     215.898 151.992  36.216  1.00129.17      CS3
ATOM  34903  C   ALA C  60     217.416 150.405  37.412  1.00181.24      CS3
ATOM  34904  O   ALA C  60     217.378 151.205  38.347  1.00181.24      CS3
ATOM  34905  N   ALA C  61     218.124 149.280  37.450  1.00107.38      CS3
ATOM  34906  CA  ALA C  61     218.946 148.916  38.599  1.00107.38      CS3
ATOM  34907  CB  ALA C  61     219.877 150.063  38.953  1.00 92.77      CS3
ATOM  34908  C   ALA C  61     218.116 148.547  39.810  1.00107.38      CS3
ATOM  34909  O   ALA C  61     217.670 149.422  40.549  1.00107.38      CS3
ATOM  34910  N   ASP C  62     217.917 147.248  40.013  1.00159.35      CS3
ATOM  34911  CA  ASP C  62     217.145 146.753  41.147  1.00159.35      CS3
ATOM  34912  CB  ASP C  62     217.819 147.178  42.455  1.00181.43      CS3
ATOM  34913  CG  ASP C  62     219.269 146.733  42.532  1.00181.43      CS3
ATOM  34914  OD1 ASP C  62     219.520 145.510  42.493  1.00181.43      CS3
ATOM  34915  OD2 ASP C  62     220.160 147.603  42.627  1.00181.43      CS3
ATOM  34916  C   ASP C  62     215.706 147.260  41.109  1.00159.35      CS3
ATOM  34917  O   ASP C  62     214.867 146.845  41.910  1.00159.35      CS3
ATOM  34918  N   ASN C  63     215.428 148.161  40.173  1.00189.73      CS3
ATOM  34919  CA  ASN C  63     214.093 148.715  40.021  1.00189.73      CS3
ATOM  34920  CB  ASN C  63     214.153 150.225  39.793  1.00127.09      CS3
ATOM  34921  CG  ASN C  63     214.322 150.997  41.083  1.00127.09      CS3
ATOM  34922  OD1 ASN C  63     213.551 150.823  42.028  1.00127.09      CS3
ATOM  34923  ND2 ASN C  63     215.330 151.859  41.131  1.00127.09      CS3
ATOM  34924  C   ASN C  63     213.376 148.055  38.861  1.00189.73      CS3
ATOM  34925  O   ASN C  63     214.001 147.641  37.884  1.00189.73      CS3
ATOM  34926  N   VAL C  64     212.057 147.960  38.982  1.00138.87      CS3
ATOM  34927  CA  VAL C  64     211.230 147.341  37.959  1.00138.87      CS3
ATOM  34928  CB  VAL C  64     211.121 145.825  38.206  1.00 71.60      CS3
ATOM  34929  CG1 VAL C  64     210.296 145.177  37.115  1.00 71.60      CS3
ATOM  34930  CG2 VAL C  64     212.510 145.203  38.261  1.00 71.60      CS3
ATOM  34931  C   VAL C  64     209.833 147.962  37.974  1.00138.87      CS3
ATOM  34932  O   VAL C  64     209.500 148.729  38.875  1.00138.87      CS3
ATOM  34933  N   ALA C  65     209.023 147.637  36.971  1.00107.76      CS3
ATOM  34934  CA  ALA C  65     207.669 148.166  36.887  1.00107.76      CS3
ATOM  34935  CB  ALA C  65     207.464 148.871  35.557  1.00100.11      CS3
ATOM  34936  C   ALA C  65     206.626 147.068  37.060  1.00107.76      CS3
ATOM  34937  O   ALA C  65     205.626 147.268  37.746  1.00107.76      CS3
ATOM  34938  N   VAL C  66     206.856 145.914  36.440  1.00 61.82      CS3
ATOM  34939  CA  VAL C  66     205.916 144.797  36.543  1.00 61.82      CS3
ATOM  34940  CB  VAL C  66     206.151 144.035  37.861  1.00 61.15      CS3
ATOM  34941  CG1 VAL C  66     205.279 142.796  37.927  1.00 61.15      CS3
ATOM  34942  CG2 VAL C  66     207.612 143.660  37.968  1.00 61.15      CS3
ATOM  34943  C   VAL C  66     204.468 145.315  36.480  1.00 61.82      CS3
ATOM  34944  O   VAL C  66     203.568 144.823  37.174  1.00 61.82      CS3
ATOM  34945  N   THR C  67     204.269 146.311  35.623  1.00 68.37      CS3
ATOM  34946  CA  THR C  67     202.980 146.968  35.423  1.00 68.37      CS3
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ATOM  34947  CB  THR C  67     203.160 148.190  34.521  1.00 72.65      CS3
ATOM  34948  OG1 THR C  67     204.369 148.867  34.884  1.00 72.65      CS3
ATOM  34949  CG2 THR C  67     201.986 149.136  34.661  1.00 72.65      CS3
ATOM  34950  C   THR C  67     201.869 146.102  34.814  1.00 68.37      CS3
ATOM  34951  O   THR C  67     201.311 146.462  33.775  1.00 68.37      CS3
ATOM  34952  N   VAL C  68     201.538 144.983  35.462  1.00 58.21      CS3
ATOM  34953  CA  VAL C  68     200.492 144.075  34.982  1.00 58.21      CS3
ATOM  34954  CB  VAL C  68     200.160 143.010  36.051  1.00 47.36      CS3
ATOM  34955  CG1 VAL C  68     198.664 142.689  36.051  1.00 47.36      CS3
ATOM  34956  CG2 VAL C  68     200.972 141.749  35.779  1.00 47.36      CS3
ATOM  34957  C   VAL C  68     199.187 144.752  34.561  1.00 58.21      CS3
ATOM  34958  O   VAL C  68     198.627 145.560  35.298  1.00 58.21      CS3
ATOM  34959  N   HIS C  69     198.708 144.403  33.370  1.00121.09      CS3
ATOM  34960  CA  HIS C  69     197.458 144.943  32.839  1.00121.09      CS3
ATOM  34961  CB  HIS C  69     197.578 145.157  31.337  1.00 73.85      CS3
ATOM  34962  CG  HIS C  69     198.342 146.384  30.953  1.00 73.85      CS3
ATOM  34963  CD2 HIS C  69     199.673 146.620  30.875  1.00 73.85      CS3
ATOM  34964  ND1 HIS C  69     197.722 147.546  30.542  1.00 73.85      CS3
ATOM  34965  CE1 HIS C  69     198.638 148.443  30.222  1.00 73.85      CS3
ATOM  34966  NE2 HIS C  69     199.831 147.906  30.414  1.00 73.85      CS3
ATOM  34967  C   HIS C  69     196.347 143.933  33.114  1.00121.09      CS3
ATOM  34968  O   HIS C  69     196.614 142.734  33.184  1.00121.09      CS3
ATOM  34969  N   VAL C  70     195.108 144.405  33.253  1.00 72.67      CS3
ATOM  34970  CA  VAL C  70     193.995 143.502  33.536  1.00 72.67      CS3
ATOM  34971  CB  VAL C  70     193.947 143.153  35.018  1.00 59.89      CS3
ATOM  34972  CG1 VAL C  70     194.844 141.970  35.309  1.00 59.89      CS3
ATOM  34973  CG2 VAL C  70     194.396 144.353  35.821  1.00 59.89      CS3
ATOM  34974  C   VAL C  70     192.601 143.971  33.147  1.00 72.67      CS3
ATOM  34975  O   VAL C  70     192.366 145.145  32.845  1.00 72.67      CS3
ATOM  34976  N   ALA C  71     191.677 143.016  33.181  1.00 89.90      CS3
ATOM  34977  CA  ALA C  71     190.277 143.240  32.849  1.00 89.90      CS3
ATOM  34978  CB  ALA C  71     189.700 141.984  32.225  1.00 53.86      CS3
ATOM  34979  C   ALA C  71     189.508 143.578  34.117  1.00 89.90      CS3
ATOM  34980  O   ALA C  71     188.656 144.469  34.130  1.00 89.90      CS3
ATOM  34981  N   LYS C  72     189.821 142.835  35.175  1.00 83.04      CS3
ATOM  34982  CA  LYS C  72     189.206 142.997  36.487  1.00 83.04      CS3
ATOM  34983  CB  LYS C  72     188.524 141.693  36.894  1.00144.73      CS3
ATOM  34984  CG  LYS C  72     187.447 141.232  35.927  1.00144.73      CS3
ATOM  34985  CD  LYS C  72     187.374 139.716  35.871  1.00144.73      CS3
ATOM  34986  CE  LYS C  72     187.148 139.114  37.247  1.00144.73      CS3
ATOM  34987  NZ  LYS C  72     187.195 137.623  37.218  1.00144.73      CS3
ATOM  34988  C   LYS C  72     190.309 143.344  37.490  1.00 83.04      CS3
ATOM  34989  O   LYS C  72     190.657 142.537  38.362  1.00 83.04      CS3
ATOM  34990  N   PRO C  73     190.875 144.558  37.375  1.00 85.78      CS3
ATOM  34991  CD  PRO C  73     190.381 145.679  36.557  1.00 70.57      CS3
ATOM  34992  CA  PRO C  73     191.944 145.003  38.273  1.00 85.78      CS3
ATOM  34993  CB  PRO C  73     192.059 146.499  37.967  1.00 70.57      CS3
ATOM  34994  CG  PRO C  73     190.699 146.854  37.422  1.00 70.57      CS3
ATOM  34995  C   PRO C  73     191.615 144.719  39.724  1.00 85.78      CS3
ATOM  34996  O   PRO C  73     192.486 144.349  40.510  1.00 85.78      CS3
ATOM  34997  N   GLY C  74     190.341 144.879  40.060  1.00104.85      CS3
ATOM  34998  CA  GLY C  74     189.897 144.631  41.414  1.00104.85      CS3
ATOM  34999  C   GLY C  74     190.374 143.290  41.935  1.00104.85      CS3
ATOM  35000  O   GLY C  74     190.449 143.081  43.142  1.00104.85      CS3
ATOM  35001  N   VAL C  75     190.714 142.376  41.038  1.00 64.43      CS3
ATOM  35002  CA  VAL C  75     191.159 141.069  41.483  1.00 64.43      CS3
ATOM  35003  CB  VAL C  75     190.867 140.011  40.417  1.00 67.64      CS3
ATOM  35004  CG1 VAL C  75     190.872 138.627  41.050  1.00 67.64      CS3
ATOM  35005  CG2 VAL C  75     189.529 140.302  39.762  1.00 67.64      CS3
ATOM  35006  C   VAL C  75     192.649 141.089  41.803  1.00 64.43      CS3
ATOM  35007  O   VAL C  75     193.124 140.378  42.690  1.00 64.43      CS3
ATOM  35008  N   VAL C  76     193.385 141.913  41.071  1.00159.31      CS3
ATOM  35009  CA  VAL C  76     194.817 142.038  41.287  1.00159.31      CS3
ATOM  35010  CB  VAL C  76     195.453 142.961  40.230  1.00133.74      CS3
ATOM  35011  CG1 VAL C  76     196.949 143.061  40.456  1.00133.74      CS3
ATOM  35012  CG2 VAL C  76     195.149 142.441  38.841  1.00133.74      CS3
ATOM  35013  C   VAL C  76     195.029 142.665  42.659  1.00159.31      CS3
ATOM  35014  O   VAL C  76     196.038 142.424  43.325  1.00159.31      CS3
ATOM  35015  N   ILE C  77     194.050 143.463  43.071  1.00 95.60      CS3
ATOM  35016  CA  ILE C  77     194.092 144.180  44.338  1.00 95.60      CS3
ATOM  35017  CB  ILE C  77     193.089 145.349  44.327  1.00 64.09      CS3
ATOM  35018  CG2 ILE C  77     192.982 145.960  45.709  1.00 64.09      CS3
ATOM  35019  CG1 ILE C  77     193.516 146.392  43.292  1.00 64.09      CS3
ATOM  35020  CD1 ILE C  77     194.882 146.991  43.550  1.00 64.09      CS3
ATOM  35021  C   ILE C  77     193.826 143.352  45.585  1.00 95.60      CS3
ATOM  35022  O   ILE C  77     194.687 143.234  46.448  1.00 95.60      CS3
ATOM  35023  N   GLY C  78     192.628 142.791  45.678  1.00105.26      CS3
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ATOM  35024  CA  GLY C  78     192.261 142.019  46.850  1.00105.26      CS3
ATOM  35025  C   GLY C  78     191.378 142.917  47.696  1.00105.26      CS3
ATOM  35026  O   GLY C  78     190.900 143.944  47.206  1.00105.26      CS3
ATOM  35027  N   ARG C  79     191.156 142.556  48.957  1.00140.01      CS3
ATOM  35028  CA  ARG C  79     190.318 143.372  49.830  1.00140.01      CS3
ATOM  35029  CB  ARG C  79     189.653 142.499  50.898  1.00200.96      CS3
ATOM  35030  CG  ARG C  79     190.592 141.558  51.629  1.00200.96      CS3
ATOM  35031  CD  ARG C  79     189.793 140.568  52.461  1.00200.96      CS3
ATOM  35032  NE  ARG C  79     190.628 139.514  53.030  1.00200.96      CS3
ATOM  35033  CZ  ARG C  79     190.149 138.426  53.627  1.00200.96      CS3
ATOM  35034  NH1 ARG C  79     188.839 138.246  53.733  1.00200.96      CS3
ATOM  35035  NH2 ARG C  79     190.980 137.515  54.117  1.00200.96      CS3
ATOM  35036  C   ARG C  79     191.095 144.510  50.486  1.00140.01      CS3
ATOM  35037  O   ARG C  79     191.818 144.303  51.461  1.00140.01      CS3
ATOM  35038  N   GLY C  80     190.938 145.711  49.932  1.00165.96      CS3
ATOM  35039  CA  GLY C  80     191.618 146.884  50.455  1.00165.96      CS3
ATOM  35040  C   GLY C  80     193.110 146.886  50.181  1.00165.96      CS3
ATOM  35041  O   GLY C  80     193.914 146.833  51.111  1.00165.96      CS3
ATOM  35042  N   GLY C  81     193.484 146.956  48.906  1.00155.11      CS3
ATOM  35043  CA  GLY C  81     194.893 146.948  48.548  1.00155.11      CS3
ATOM  35044  C   GLY C  81     195.564 145.690  49.068  1.00155.11      CS3
ATOM  35045  O   GLY C  81     196.786 145.635  49.215  1.00155.11      CS3
ATOM  35046  N   GLU C  82     194.747 144.676  49.339  1.00145.51      CS3
ATOM  35047  CA  GLU C  82     195.203 143.393  49.863  1.00145.51      CS3
ATOM  35048  CB  GLU C  82     193.977 142.532  50.201  1.00111.97      CS3
ATOM  35049  CG  GLU C  82     194.273 141.111  50.639  1.00111.97      CS3
ATOM  35050  CD  GLU C  82     195.518 141.017  51.485  1.00111.97      CS3
ATOM  35051  OE1 GLU C  82     195.710 141.887  52.359  1.00111.97      CS3
ATOM  35052  OE2 GLU C  82     196.302 140.068  51.278  1.00111.97      CS3
ATOM  35053  C   GLU C  82     196.156 142.637  48.931  1.00145.51      CS3
ATOM  35054  O   GLU C  82     197.364 142.872  48.948  1.00145.51      CS3
ATOM  35055  N   ARG C  83     195.607 141.727  48.129  1.00 98.26      CS3
ATOM  35056  CA  ARG C  83     196.387 140.922  47.190  1.00 98.26      CS3
ATOM  35057  CB  ARG C  83     195.473 140.431  46.068  1.00145.81      CS3
ATOM  35058  CG  ARG C  83     196.107 139.410  45.160  1.00145.81      CS3
ATOM  35059  CD  ARG C  83     195.083 138.840  44.211  1.00145.81      CS3
ATOM  35060  NE  ARG C  83     195.577 137.638  43.555  1.00145.81      CS3
ATOM  35061  CZ  ARG C  83     194.819 136.819  42.836  1.00145.81      CS3
ATOM  35062  NH1 ARG C  83     193.527 137.076  42.680  1.00145.81      CS3
ATOM  35063  NH2 ARG C  83     195.348 135.737  42.283  1.00145.81      CS3
ATOM  35064  C   ARG C  83     197.594 141.659  46.595  1.00 98.26      CS3
ATOM  35065  O   ARG C  83     198.715 141.141  46.610  1.00 98.26      CS3
ATOM  35066  N   ILE C  84     197.359 142.861  46.071  1.00 84.55      CS3
ATOM  35067  CA  ILE C  84     198.417 143.677  45.479  1.00 84.55      CS3
ATOM  35068  CB  ILE C  84     197.826 144.971  44.861  1.00 86.54      CS3
ATOM  35069  CG2 ILE C  84     197.141 145.791  45.940  1.00 86.54      CS3
ATOM  35070  CG1 ILE C  84     198.924 145.784  44.172  1.00 86.54      CS3
ATOM  35071  CD1 ILE C  84     198.468 147.149  43.668  1.00 86.54      CS3
ATOM  35072  C   ILE C  84     199.455 144.029  46.554  1.00 84.55      CS3
ATOM  35073  O   ILE C  84     199.967 145.148  46.628  1.00 84.55      CS3
ATOM  35074  N   ARG C  85     199.749 143.049  47.394  1.00142.39      CS3
ATOM  35075  CA  ARG C  85     200.713 143.195  48.468  1.00142.39      CS3
ATOM  35076  CB  ARG C  85     200.021 143.681  49.746  1.00200.96      CS3
ATOM  35077  CG  ARG C  85     200.816 143.450  51.026  1.00200.96      CS3
ATOM  35078  CD  ARG C  85     202.235 143.987  50.917  1.00200.96      CS3
ATOM  35079  NE  ARG C  85     203.026 143.680  52.106  1.00200.96      CS3
ATOM  35080  CZ  ARG C  85     204.341 143.857  52.197  1.00200.96      CS3
ATOM  35081  NH1 ARG C  85     205.021 144.341  51.166  1.00200.96      CS3
ATOM  35082  NH2 ARG C  85     204.976 143.551  53.321  1.00200.96      CS3
ATOM  35083  C   ARG C  85     201.348 141.834  48.696  1.00142.39      CS3
ATOM  35084  O   ARG C  85     202.572 141.707  48.712  1.00142.39      CS3
ATOM  35085  N   VAL C  86     200.510 140.815  48.868  1.00152.40      CS3
ATOM  35086  CA  VAL C  86     201.005 139.460  49.078  1.00152.40      CS3
ATOM  35087  CB  VAL C  86     199.857 138.424  49.079  1.00104.11      CS3
ATOM  35088  CG1 VAL C  86     200.368 137.080  49.578  1.00104.11      CS3
ATOM  35089  CG2 VAL C  86     198.709 138.917  49.934  1.00104.11      CS3
ATOM  35090  C   VAL C  86     201.926 139.151  47.907  1.00152.40      CS3
ATOM  35091  O   VAL C  86     203.049 138.679  48.086  1.00152.40      CS3
ATOM  35092  N   LEU C  87     201.434 139.441  46.707  1.00137.16      CS3
ATOM  35093  CA  LEU C  87     202.182 139.212  45.480  1.00137.16      CS3
ATOM  35094  CB  LEU C  87     201.258 139.367  44.271  1.00118.11      CS3
ATOM  35095  CG  LEU C  87     200.030 138.449  44.272  1.00118.11      CS3
ATOM  35096  CD1 LEU C  87     199.126 138.812  43.107  1.00118.11      CS3
ATOM  35097  CD2 LEU C  87     200.465 136.992  44.189  1.00118.11      CS3
ATOM  35098  C   LEU C  87     203.338 140.193  45.375  1.00137.16      CS3
ATOM  35099  O   LEU C  87     204.488 139.787  45.239  1.00137.16      CS3
ATOM  35100  N   ARG C  88     203.028 141.484  45.446  1.00114.28      CS3
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ATOM  35101  CA  ARG C  88     204.045 142.527  45.358  1.00114.28      CS3
ATOM  35102  CB  ARG C  88     203.487 143.848  45.882  1.00152.69      CS3
ATOM  35103  CG  ARG C  88     204.194 145.075  45.342  1.00152.69      CS3
ATOM  35104  CD  ARG C  88     203.282 146.284  45.442  1.00152.69      CS3
ATOM  35105  NE  ARG C  88     203.662 147.347  44.516  1.00152.69      CS3
ATOM  35106  CZ  ARG C  88     202.875 148.370  44.193  1.00152.69      CS3
ATOM  35107  NH1 ARG C  88     201.660 148.471  44.722  1.00152.69      CS3
ATOM  35108  NH2 ARG C  88     203.298 149.288  43.333  1.00152.69      CS3
ATOM  35109  C   ARG C  88     205.271 142.124  46.162  1.00114.28      CS3
ATOM  35110  O   ARG C  88     206.391 142.528  45.856  1.00114.28      CS3
ATOM  35111  N   GLU C  89     205.042 141.319  47.194  1.00145.94      CS3
ATOM  35112  CA  GLU C  89     206.113 140.828  48.048  1.00145.94      CS3
ATOM  35113  CB  GLU C  89     205.667 140.821  49.513  1.00200.96      CS3
ATOM  35114  CG  GLU C  89     206.715 140.276  50.475  1.00200.96      CS3
ATOM  35115  CD  GLU C  89     206.188 140.111  51.888  1.00200.96      CS3
ATOM  35116  OE1 GLU C  89     205.212 139.353  52.076  1.00200.96      CS3
ATOM  35117  OE2 GLU C  89     206.751 140.737  52.811  1.00200.96      CS3
ATOM  35118  C   GLU C  89     206.474 139.410  47.618  1.00145.94      CS3
ATOM  35119  O   GLU C  89     207.651 139.078  47.477  1.00145.94      CS3
ATOM  35120  N   GLU C  90     205.456 138.579  47.406  1.00107.02      CS3
ATOM  35121  CA  GLU C  90     205.668 137.194  46.986  1.00107.02      CS3
ATOM  35122  CB  GLU C  90     204.318 136.472  46.872  1.00177.65      CS3
ATOM  35123  CG  GLU C  90     204.400 134.954  46.755  1.00177.65      CS3
ATOM  35124  CD  GLU C  90     204.228 134.457  45.332  1.00177.65      CS3
ATOM  35125  OE1 GLU C  90     204.242 133.225  45.126  1.00177.65      CS3
ATOM  35126  OE2 GLU C  90     204.077 135.296  44.420  1.00177.65      CS3
ATOM  35127  C   GLU C  90     206.395 137.194  45.641  1.00107.02      CS3
ATOM  35128  O   GLU C  90     206.805 136.150  45.130  1.00107.02      CS3
ATOM  35129  N   LEU C  91     206.551 138.391  45.085  1.00153.28      CS3
ATOM  35130  CA  LEU C  91     207.227 138.597  43.812  1.00153.28      CS3
ATOM  35131  CB  LEU C  91     206.494 139.684  43.015  1.00 81.50      CS3
ATOM  35132  CG  LEU C  91     207.155 140.367  41.815  1.00 81.50      CS3
ATOM  35133  CD1 LEU C  91     206.076 140.994  40.924  1.00 81.50      CS3
ATOM  35134  CD2 LEU C  91     208.161 141.419  42.315  1.00 81.50      CS3
ATOM  35135  C   LEU C  91     208.679 138.992  44.065  1.00153.28      CS3
ATOM  35136  O   LEU C  91     209.581 138.564  43.347  1.00153.28      CS3
ATOM  35137  N   ALA C  92     208.900 139.810  45.090  1.00116.42      CS3
ATOM  35138  CA  ALA C  92     210.249 140.239  45.434  1.00116.42      CS3
ATOM  35139  CB  ALA C  92     210.200 141.398  46.411  1.00 79.38      CS3
ATOM  35140  C   ALA C  92     211.026 139.068  46.033  1.00116.42      CS3
ATOM  35141  O   ALA C  92     212.212 139.192  46.341  1.00116.42      CS3
ATOM  35142  N   LYS C  93     210.343 137.937  46.209  1.00142.70      CS3
ATOM  35143  CA  LYS C  93     210.965 136.722  46.732  1.00142.70      CS3
ATOM  35144  CB  LYS C  93     209.899 135.730  47.208  1.00195.16      CS3
ATOM  35145  CG  LYS C  93     209.662 135.727  48.709  1.00195.16      CS3
ATOM  35146  CD  LYS C  93     210.888 135.214  49.461  1.00195.16      CS3
ATOM  35147  CE  LYS C  93     210.647 135.167  50.967  1.00195.16      CS3
ATOM  35148  NZ  LYS C  93     211.849 134.709  51.726  1.00195.16      CS3
ATOM  35149  C   LYS C  93     211.734 136.119  45.565  1.00142.70      CS3
ATOM  35150  O   LYS C  93     212.814 135.550  45.728  1.00142.70      CS3
ATOM  35151  N   LEU C  94     211.140 136.257  44.384  1.00128.86      CS3
ATOM  35152  CA  LEU C  94     211.717 135.780  43.136  1.00128.86      CS3
ATOM  35153  CB  LEU C  94     210.647 135.830  42.037  1.00147.19      CS3
ATOM  35154  CG  LEU C  94     210.950 135.570  40.557  1.00147.19      CS3
ATOM  35155  CD1 LEU C  94     209.634 135.415  39.812  1.00147.19      CS3
ATOM  35156  CD2 LEU C  94     211.758 136.709  39.956  1.00147.19      CS3
ATOM  35157  C   LEU C  94     212.859 136.730  42.812  1.00128.86      CS3
ATOM  35158  O   LEU C  94     214.032 136.394  42.966  1.00128.86      CS3
ATOM  35159  N   THR C  95     212.495 137.929  42.374  1.00143.56      CS3
ATOM  35160  CA  THR C  95     213.460 138.961  42.033  1.00143.56      CS3
ATOM  35161  CB  THR C  95     212.830 140.014  41.106  1.00 70.82      CS3
ATOM  35162  OG1 THR C  95     213.508 141.265  41.265  1.00 70.82      CS3
ATOM  35163  CG2 THR C  95     211.370 140.205  41.441  1.00 70.82      CS3
ATOM  35164  C   THR C  95     213.932 139.658  43.299  1.00143.56      CS3
ATOM  35165  O   THR C  95     213.308 140.618  43.752  1.00143.56      CS3
ATOM  35166  N   GLY C  96     215.023 139.170  43.880  1.00174.03      CS3
ATOM  35167  CA  GLY C  96     215.536 139.795  45.085  1.00174.03      CS3
ATOM  35168  C   GLY C  96     216.018 141.188  44.737  1.00174.03      CS3
ATOM  35169  O   GLY C  96     217.219 141.456  44.749  1.00174.03      CS3
ATOM  35170  N   LYS C  97     215.079 142.076  44.422  1.00128.41      CS3
ATOM  35171  CA  LYS C  97     215.412 143.441  44.039  1.00128.41      CS3
ATOM  35172  CB  LYS C  97     215.679 143.488  42.528  1.00153.94      CS3
ATOM  35173  CG  LYS C  97     216.715 142.462  42.078  1.00153.94      CS3
ATOM  35174  CD  LYS C  97     216.907 142.417  40.576  1.00153.94      CS3
ATOM  35175  CE  LYS C  97     217.895 141.317  40.209  1.00153.94      CS3
ATOM  35176  NZ  LYS C  97     218.154 141.240  38.746  1.00153.94      CS3
ATOM  35177  C   LYS C  97     214.309 144.433  44.414  1.00128.41      CS3
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ATOM  35178  O   LYS C  97     214.406 145.623  44.110  1.00128.41      CS3
ATOM  35179  N   ASN C  98     213.272 143.933  45.083  1.00200.96      CS3
ATOM  35180  CA  ASN C  98     212.139 144.754  45.513  1.00200.96      CS3
ATOM  35181  CB  ASN C  98     212.520 145.572  46.753  1.00182.06      CS3
ATOM  35182  CG  ASN C  98     211.327 146.276  47.376  1.00182.06      CS3
ATOM  35183  OD1 ASN C  98     210.731 147.171  46.775  1.00182.06      CS3
ATOM  35184  ND2 ASN C  98     210.971 145.867  48.589  1.00182.06      CS3
ATOM  35185  C   ASN C  98     211.664 145.685  44.398  1.00200.96      CS3
ATOM  35186  O   ASN C  98     212.260 146.736  44.147  1.00200.96      CS3
ATOM  35187  N   VAL C  99     210.576 145.298  43.739  1.00 97.04      CS3
ATOM  35188  CA  VAL C  99     210.039 146.085  42.637  1.00 97.04      CS3
ATOM  35189  CB  VAL C  99     210.314 145.385  41.297  1.00174.72      CS3
ATOM  35190  CG1 VAL C  99     211.759 144.916  41.256  1.00174.72      CS3
ATOM  35191  CG2 VAL C  99     209.369 144.211  41.115  1.00174.72      CS3
ATOM  35192  C   VAL C  99     208.541 146.320  42.768  1.00 97.04      CS3
ATOM  35193  O   VAL C  99     207.829 145.527  43.384  1.00 97.04      CS3
ATOM  35194  N   ALA C 100     208.077 147.412  42.170  1.00112.07      CS3
ATOM  35195  CA  ALA C 100     206.670 147.790  42.202  1.00112.07      CS3
ATOM  35196  CB  ALA C 100     206.466 149.065  41.393  1.00 61.90      CS3
ATOM  35197  C   ALA C 100     205.760 146.686  41.669  1.00112.07      CS3
ATOM  35198  O   ALA C 100     206.165 145.529  41.560  1.00112.07      CS3
ATOM  35199  N   LEU C 101     204.523 147.057  41.347  1.00 85.54      CS3
ATOM  35200  CA  LEU C 101     203.544 146.120  40.807  1.00 85.54      CS3
ATOM  35201  CB  LEU C 101     203.218 145.021  41.834  1.00 61.02      CS3
ATOM  35202  CG  LEU C 101     202.672 143.686  41.294  1.00 61.02      CS3
ATOM  35203  CD1 LEU C 101     202.501 142.682  42.421  1.00 61.02      CS3
ATOM  35204  CD2 LEU C 101     201.350 143.906  40.593  1.00 61.02      CS3
ATOM  35205  C   LEU C 101     202.283 146.900  40.457  1.00 85.54      CS3
ATOM  35206  O   LEU C 101     201.194 146.577  40.921  1.00 85.54      CS3
ATOM  35207  N   ASN C 102     202.436 147.937  39.638  1.00104.95      CS3
ATOM  35208  CA  ASN C 102     201.301 148.761  39.237  1.00104.95      CS3
ATOM  35209  CB  ASN C 102     201.770 149.880  38.307  1.00146.34      CS3
ATOM  35210  CG  ASN C 102     202.813 150.768  38.953  1.00146.34      CS3
ATOM  35211  OD1 ASN C 102     202.600 151.302  40.040  1.00146.34      CS3
ATOM  35212  ND2 ASN C 102     203.948 150.932  38.285  1.00146.34      CS3
ATOM  35213  C   ASN C 102     200.212 147.938  38.552  1.00104.95      CS3
ATOM  35214  O   ASN C 102     200.398 146.750  38.287  1.00104.95      CS3
ATOM  35215  N   VAL C 103     199.073 148.574  38.283  1.00 96.55      CS3
ATOM  35216  CA  VAL C 103     197.939 147.919  37.626  1.00 96.55      CS3
ATOM  35217  CB  VAL C 103     196.940 147.299  38.651  1.00 59.28      CS3
ATOM  35218  CG1 VAL C 103     195.693 146.816  37.928  1.00 59.28      CS3
ATOM  35219  CG2 VAL C 103     197.587 146.140  39.403  1.00 59.28      CS3
ATOM  35220  C   VAL C 103     197.158 148.919  36.782  1.00 96.55      CS3
ATOM  35221  O   VAL C 103     196.462 149.775  37.319  1.00 96.55      CS3
ATOM  35222  N   GLN C 104     197.278 148.814  35.464  1.00109.64      CS3
ATOM  35223  CA  GLN C 104     196.552 149.705  34.572  1.00109.64      CS3
ATOM  35224  CB  GLN C 104     197.483 150.271  33.500  1.00200.96      CS3
ATOM  35225  CG  GLN C 104     198.528 151.225  34.058  1.00200.96      CS3
ATOM  35226  CD  GLN C 104     199.416 151.822  32.984  1.00200.96      CS3
ATOM  35227  OE1 GLN C 104     200.143 151.107  32.293  1.00200.96      CS3
ATOM  35228  NE2 GLN C 104     199.363 153.142  32.839  1.00200.96      CS3
ATOM  35229  C   GLN C 104     195.416 148.921  33.935  1.00109.64      CS3
ATOM  35230  O   GLN C 104     195.642 147.982  33.176  1.00109.64      CS3
ATOM  35231  N   GLU C 105     194.190 149.307  34.264  1.00129.07      CS3
ATOM  35232  CA  GLU C 105     193.003 148.636  33.752  1.00129.07      CS3
ATOM  35233  CB  GLU C 105     191.746 149.314  34.311  1.00173.50      CS3
ATOM  35234  CG  GLU C 105     190.452 148.542  34.091  1.00173.50      CS3
ATOM  35235  CD  GLU C 105     189.258 149.213  34.743  1.00173.50      CS3
ATOM  35236  OE1 GLU C 105     188.925 150.352  34.353  1.00173.50      CS3
ATOM  35237  OE2 GLU C 105     188.655 148.599  35.648  1.00173.50      CS3
ATOM  35238  C   GLU C 105     192.960 148.626  32.229  1.00129.07      CS3
ATOM  35239  O   GLU C 105     193.610 149.440  31.569  1.00129.07      CS3
ATOM  35240  N   VAL C 106     192.183 147.696  31.682  1.00 68.22      CS3
ATOM  35241  CA  VAL C 106     192.037 147.547  30.239  1.00 68.22      CS3
ATOM  35242  CB  VAL C 106     192.070 146.050  29.845  1.00112.14      CS3
ATOM  35243  CG1 VAL C 106     191.776 145.891  28.358  1.00112.14      CS3
ATOM  35244  CG2 VAL C 106     193.434 145.456  30.184  1.00112.14      CS3
ATOM  35245  C   VAL C 106     190.751 148.178  29.699  1.00 68.22      CS3
ATOM  35246  O   VAL C 106     189.682 148.051  30.299  1.00 68.22      CS3
ATOM  35247  N   GLN C 107     190.868 148.847  28.554  1.00162.79      CS3
ATOM  35248  CA  GLN C 107     189.733 149.504  27.910  1.00162.79      CS3
ATOM  35249  CB  GLN C 107     190.217 150.693  27.076  1.00182.63      CS3
ATOM  35250  CG  GLN C 107     191.164 151.634  27.809  1.00182.63      CS3
ATOM  35251  CD  GLN C 107     192.522 151.011  28.070  1.00182.63      CS3
ATOM  35252  OE1 GLN C 107     193.249 150.668  27.138  1.00182.63      CS3
ATOM  35253  NE2 GLN C 107     192.871 150.859  29.343  1.00182.63      CS3
ATOM  35254  C   GLN C 107     188.995 148.518  27.005  1.00162.79      CS3
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ATOM  35255  O   GLN C 107     189.422 148.262  25.877  1.00162.79      CS3
ATOM  35256  N   ASN C 108     187.885 147.975  27.502  1.00 91.04      CS3
ATOM  35257  CA  ASN C 108     187.085 147.006  26.754  1.00 91.04      CS3
ATOM  35258  CB  ASN C 108     186.647 147.580  25.406  1.00104.36      CS3
ATOM  35259  CG  ASN C 108     185.813 146.600  24.609  1.00104.36      CS3
ATOM  35260  OD1 ASN C 108     184.736 146.195  25.041  1.00104.36      CS3
ATOM  35261  ND2 ASN C 108     186.310 146.205  23.444  1.00104.36      CS3
ATOM  35262  C   ASN C 108     187.870 145.728  26.514  1.00 91.04      CS3
ATOM  35263  O   ASN C 108     188.796 145.702  25.708  1.00 91.04      CS3
ATOM  35264  N   PRO C 109     187.504 144.644  27.206  1.00 73.94      CS3
ATOM  35265  CD  PRO C 109     186.371 144.480  28.130  1.00 78.85      CS3
ATOM  35266  CA  PRO C 109     188.213 143.378  27.032  1.00 73.94      CS3
ATOM  35267  CB  PRO C 109     187.663 142.522  28.169  1.00 78.85      CS3
ATOM  35268  CG  PRO C 109     186.253 142.968  28.236  1.00 78.85      CS3
ATOM  35269  C   PRO C 109     187.956 142.765  25.660  1.00 73.94      CS3
ATOM  35270  O   PRO C 109     188.480 141.700  25.344  1.00 73.94      CS3
ATOM  35271  N   ASN C 110     187.147 143.435  24.848  1.00107.96      CS3
ATOM  35272  CA  ASN C 110     186.853 142.922  23.520  1.00107.96      CS3
ATOM  35273  CB  ASN C 110     185.456 143.337  23.073  1.00111.34      CS3
ATOM  35274  CG  ASN C 110     184.374 142.593  23.820  1.00111.34      CS3
ATOM  35275  OD1 ASN C 110     184.459 141.374  24.015  1.00111.34      CS3
ATOM  35276  ND2 ASN C 110     183.345 143.316  24.239  1.00111.34      CS3
ATOM  35277  C   ASN C 110     187.880 143.366  22.504  1.00107.96      CS3
ATOM  35278  O   ASN C 110     187.989 142.772  21.434  1.00107.96      CS3
ATOM  35279  N   LEU C 111     188.630 144.413  22.830  1.00 60.13      CS3
ATOM  35280  CA  LEU C 111     189.671 144.878  21.927  1.00 60.13      CS3
ATOM  35281  CB  LEU C 111     189.746 146.398  21.926  1.00 47.12      CS3
ATOM  35282  CG  LEU C 111     188.414 147.082  21.625  1.00 47.12      CS3
ATOM  35283  CD1 LEU C 111     188.704 148.432  20.999  1.00 47.12      CS3
ATOM  35284  CD2 LEU C 111     187.560 146.244  20.672  1.00 47.12      CS3
ATOM  35285  C   LEU C 111     190.996 144.271  22.371  1.00 60.13      CS3
ATOM  35286  O   LEU C 111     191.985 144.287  21.648  1.00 60.13      CS3
ATOM  35287  N   SER C 112     191.016 143.727  23.575  1.00 72.02      CS3
ATOM  35288  CA  SER C 112     192.225 143.099  24.044  1.00 72.02      CS3
ATOM  35289  CB  SER C 112     192.187 142.899  25.550  1.00 94.65      CS3
ATOM  35290  OG  SER C 112     193.277 142.094  25.962  1.00 94.65      CS3
ATOM  35291  C   SER C 112     192.258 141.752  23.362  1.00 72.02      CS3
ATOM  35292  O   SER C 112     191.770 140.763  23.915  1.00 72.02      CS3
ATOM  35293  N   ALA C 113     192.808 141.725  22.151  1.00 73.42      CS3
ATOM  35294  CA  ALA C 113     192.918 140.493  21.381  1.00 73.42      CS3
ATOM  35295  CB  ALA C 113     193.880 140.693  20.229  1.00 58.58      CS3
ATOM  35296  C   ALA C 113     193.395 139.351  22.281  1.00 73.42      CS3
ATOM  35297  O   ALA C 113     192.793 138.274  22.314  1.00 73.42      CS3
ATOM  35298  N   PRO C 114     194.482 139.574  23.034  1.00 67.21      CS3
ATOM  35299  CD  PRO C 114     195.294 140.800  23.140  1.00 76.13      CS3
ATOM  35300  CA  PRO C 114     194.993 138.528  23.923  1.00 67.21      CS3
ATOM  35301  CB  PRO C 114     196.023 139.268  24.764  1.00 76.13      CS3
ATOM  35302  CG  PRO C 114     196.553 140.300  23.803  1.00 76.13      CS3
ATOM  35303  C   PRO C 114     193.879 137.944  24.775  1.00 67.21      CS3
ATOM  35304  O   PRO C 114     193.928 136.779  25.156  1.00 67.21      CS3
ATOM  35305  N   LEU C 115     192.880 138.768  25.078  1.00 70.27      CS3
ATOM  35306  CA  LEU C 115     191.746 138.336  25.884  1.00 70.27      CS3
ATOM  35307  CB  LEU C 115     191.054 139.544  26.520  1.00 73.69      CS3
ATOM  35308  CG  LEU C 115     191.767 140.284  27.656  1.00 73.69      CS3
ATOM  35309  CD1 LEU C 115     190.911 141.460  28.088  1.00 73.69      CS3
ATOM  35310  CD2 LEU C 115     192.002 139.356  28.838  1.00 73.69      CS3
ATOM  35311  C   LEU C 115     190.757 137.575  25.015  1.00 70.27      CS3
ATOM  35312  O   LEU C 115     190.461 136.403  25.281  1.00 70.27      CS3
ATOM  35313  N   VAL C 116     190.250 138.256  23.983  1.00 48.91      CS3
ATOM  35314  CA  VAL C 116     189.301 137.674  23.031  1.00 48.91      CS3
ATOM  35315  CB  VAL C 116     189.302 138.462  21.688  1.00 38.75      CS3
ATOM  35316  CG1 VAL C 116     188.298 137.869  20.723  1.00 38.75      CS3
ATOM  35317  CG2 VAL C 116     188.974 139.930  21.940  1.00 38.75      CS3
ATOM  35318  C   VAL C 116     189.690 136.217  22.765  1.00 48.91      CS3
ATOM  35319  O   VAL C 116     188.834 135.333  22.688  1.00 48.91      CS3
ATOM  35320  N   ALA C 117     190.992 135.980  22.640  1.00 58.01      CS3
ATOM  35321  CA  ALA C 117     191.507 134.636  22.415  1.00 58.01      CS3
ATOM  35322  CB  ALA C 117     193.001 134.688  22.131  1.00114.81      CS3
ATOM  35323  C   ALA C 117     191.239 133.791  23.657  1.00 58.01      CS3
ATOM  35324  O   ALA C 117     190.641 132.712  23.576  1.00 58.01      CS3
ATOM  35325  N   GLN C 118     191.692 134.293  24.803  1.00 90.55      CS3
ATOM  35326  CA  GLN C 118     191.501 133.606  26.071  1.00 90.55      CS3
ATOM  35327  CB  GLN C 118     191.889 134.515  27.237  1.00151.80      CS3
ATOM  35328  CG  GLN C 118     193.378 134.730  27.405  1.00151.80      CS3
ATOM  35329  CD  GLN C 118     193.695 135.727  28.500  1.00151.80      CS3
ATOM  35330  OE1 GLN C 118     193.407 136.915  28.371  1.00151.80      CS3
ATOM  35331  NE2 GLN C 118     194.285 135.248  29.591  1.00151.80      CS3
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ATOM  35332  C   GLN C 118     190.038 133.230  26.202  1.00 90.55      CS3
ATOM  35333  O   GLN C 118     189.701 132.105  26.581  1.00 90.55      CS3
ATOM  35334  N   ARG C 119     189.174 134.188  25.879  1.00 98.85      CS3
ATOM  35335  CA  ARG C 119     187.734 133.986  25.960  1.00 98.85      CS3
ATOM  35336  CB  ARG C 119     187.000 135.174  25.339  1.00130.38      CS3
ATOM  35337  CG  ARG C 119     185.488 135.108  25.480  1.00130.38      CS3
ATOM  35338  CD  ARG C 119     185.033 135.538  26.866  1.00130.38      CS3
ATOM  35339  NE  ARG C 119     183.589 135.403  27.042  1.00130.38      CS3
ATOM  35340  CZ  ARG C 119     182.959 134.244  27.216  1.00130.38      CS3
ATOM  35341  NH1 ARG C 119     183.645 133.108  27.241  1.00130.38      CS3
ATOM  35342  NH2 ARG C 119     181.640 134.218  27.364  1.00130.38      CS3
ATOM  35343  C   ARG C 119     187.316 132.709  25.239  1.00 98.85      CS3
ATOM  35344  O   ARG C 119     186.970 131.707  25.870  1.00 98.85      CS3
ATOM  35345  N   VAL C 120     187.360 132.760  23.910  1.00 60.68      CS3
ATOM  35346  CA  VAL C 120     186.971 131.633  23.075  1.00 60.68      CS3
ATOM  35347  CB  VAL C 120     187.397 131.841  21.636  1.00 38.82      CS3
ATOM  35348  CG1 VAL C 120     186.882 130.698  20.798  1.00 38.82      CS3
ATOM  35349  CG2 VAL C 120     186.881 133.183  21.126  1.00 38.82      CS3
ATOM  35350  C   VAL C 120     187.612 130.362  23.560  1.00 60.68      CS3
ATOM  35351  O   VAL C 120     186.971 129.313  23.641  1.00 60.68      CS3
ATOM  35352  N   ALA C 121     188.894 130.463  23.876  1.00 55.05      CS3
ATOM  35353  CA  ALA C 121     189.621 129.306  24.353  1.00 55.05      CS3
ATOM  35354  CB  ALA C 121     191.031 129.698  24.746  1.00 35.19      CS3
ATOM  35355  C   ALA C 121     188.858 128.763  25.542  1.00 55.05      CS3
ATOM  35356  O   ALA C 121     188.681 127.553  25.667  1.00 55.05      CS3
ATOM  35357  N   GLU C 122     188.391 129.671  26.401  1.00 95.84      CS3
ATOM  35358  CA  GLU C 122     187.632 129.292  27.592  1.00 95.84      CS3
ATOM  35359  CB  GLU C 122     187.220 130.530  28.399  1.00198.02      CS3
ATOM  35360  CG  GLU C 122     188.352 131.207  29.158  1.00198.02      CS3
ATOM  35361  CD  GLU C 122     187.860 132.321  30.070  1.00198.02      CS3
ATOM  35362  OE1 GLU C 122     186.993 132.052  30.928  1.00198.02      CS3
ATOM  35363  OE2 GLU C 122     188.344 133.465  29.932  1.00198.02      CS3
ATOM  35364  C   GLU C 122     186.386 128.509  27.211  1.00 95.84      CS3
ATOM  35365  O   GLU C 122     186.186 127.379  27.662  1.00 95.84      CS3
ATOM  35366  N   GLN C 123     185.548 129.120  26.381  1.00 59.96      CS3
ATOM  35367  CA  GLN C 123     184.322 128.477  25.932  1.00 59.96      CS3
ATOM  35368  CB  GLN C 123     183.672 129.297  24.811  1.00 66.47      CS3
ATOM  35369  CG  GLN C 123     183.406 130.750  25.181  1.00 66.47      CS3
ATOM  35370  CD  GLN C 123     182.637 131.504  24.109  1.00 66.47      CS3
ATOM  35371  OE1 GLN C 123     181.428 131.325  23.947  1.00 66.47      CS3
ATOM  35372  NE2 GLN C 123     183.340 132.349  23.364  1.00 66.47      CS3
ATOM  35373  C   GLN C 123     184.635 127.068  25.434  1.00 59.96      CS3
ATOM  35374  O   GLN C 123     183.996 126.095  25.843  1.00 59.96      CS3
ATOM  35375  N   ILE C 124     185.634 126.961  24.563  1.00 94.43      CS3
ATOM  35376  CA  ILE C 124     186.014 125.667  24.015  1.00 94.43      CS3
ATOM  35377  CB  ILE C 124     187.226 125.790  23.066  1.00 83.97      CS3
ATOM  35378  CG2 ILE C 124     187.728 124.405  22.680  1.00 83.97      CS3
ATOM  35379  CG1 ILE C 124     186.820 126.578  21.815  1.00 83.97      CS3
ATOM  35380  CD1 ILE C 124     187.928 126.751  20.793  1.00 83.97      CS3
ATOM  35381  C   ILE C 124     186.319 124.637  25.098  1.00 94.43      CS3
ATOM  35382  O   ILE C 124     185.854 123.502  25.022  1.00 94.43      CS3
ATOM  35383  N   GLU C 125     187.097 125.019  26.104  1.00116.31      CS3
ATOM  35384  CA  GLU C 125     187.414 124.082  27.176  1.00116.31      CS3
ATOM  35385  CB  GLU C 125     188.412 124.693  28.166  1.00168.43      CS3
ATOM  35386  CG  GLU C 125     189.820 124.881  27.619  1.00168.43      CS3
ATOM  35387  CD  GLU C 125     190.810 125.315  28.687  1.00168.43      CS3
ATOM  35388  OE1 GLU C 125     190.605 126.388  29.293  1.00168.43      CS3
ATOM  35389  OE2 GLU C 125     191.793 124.583  28.923  1.00168.43      CS3
ATOM  35390  C   GLU C 125     186.133 123.716  27.910  1.00116.31      CS3
ATOM  35391  O   GLU C 125     186.042 122.654  28.524  1.00116.31      CS3
ATOM  35392  N   ARG C 126     185.143 124.603  27.830  1.00126.71      CS3
ATOM  35393  CA  ARG C 126     183.857 124.404  28.493  1.00126.71      CS3
ATOM  35394  CB  ARG C 126     183.227 125.764  28.815  1.00199.81      CS3
ATOM  35395  CG  ARG C 126     182.112 125.722  29.853  1.00199.81      CS3
ATOM  35396  CD  ARG C 126     181.471 127.096  30.030  1.00199.81      CS3
ATOM  35397  NE  ARG C 126     182.443 128.123  30.399  1.00199.81      CS3
ATOM  35398  CZ  ARG C 126     182.163 129.420  30.495  1.00199.81      CS3
ATOM  35399  NH1 ARG C 126     180.936 129.860  30.249  1.00199.81      CS3
ATOM  35400  NH2 ARG C 126     183.114 130.280  30.834  1.00199.81      CS3
ATOM  35401  C   ARG C 126     182.896 123.575  27.638  1.00126.71      CS3
ATOM  35402  O   ARG C 126     181.828 123.175  28.101  1.00126.71      CS3
ATOM  35403  N   ARG C 127     183.288 123.328  26.391  1.00 99.18      CS3
ATOM  35404  CA  ARG C 127     182.502 122.545  25.439  1.00 99.18      CS3
ATOM  35405  CB  ARG C 127     181.935 121.288  26.105  1.00108.49      CS3
ATOM  35406  CG  ARG C 127     183.007 120.372  26.645  1.00108.49      CS3
ATOM  35407  CD  ARG C 127     182.498 118.960  26.867  1.00108.49      CS3
ATOM  35408  NE  ARG C 127     183.582 118.049  27.236  1.00108.49      CS3
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ATOM  35409  CZ  ARG C 127     184.633 117.775  26.464  1.00108.49      CS3
ATOM  35410  NH1 ARG C 127     184.754 118.337  25.266  1.00108.49      CS3
ATOM  35411  NH2 ARG C 127     185.574 116.944  26.892  1.00108.49      CS3
ATOM  35412  C   ARG C 127     181.379 123.323  24.777  1.00 99.18      CS3
ATOM  35413  O   ARG C 127     180.243 122.867  24.740  1.00 99.18      CS3
ATOM  35414  N   PHE C 128     181.709 124.494  24.244  1.00 83.94      CS3
ATOM  35415  CA  PHE C 128     180.739 125.351  23.561  1.00 83.94      CS3
ATOM  35416  CB  PHE C 128     181.113 126.824  23.759  1.00134.50      CS3
ATOM  35417  CG  PHE C 128     180.326 127.524  24.827  1.00134.50      CS3
ATOM  35418  CD1 PHE C 128     180.257 127.008  26.117  1.00134.50      CS3
ATOM  35419  CD2 PHE C 128     179.685 128.729  24.549  1.00134.50      CS3
ATOM  35420  CE1 PHE C 128     179.562 127.685  27.117  1.00134.50      CS3
ATOM  35421  CE2 PHE C 128     178.988 129.415  25.541  1.00134.50      CS3
ATOM  35422  CZ  PHE C 128     178.927 128.893  26.829  1.00134.50      CS3
ATOM  35423  C   PHE C 128     180.666 125.075  22.053  1.00 83.94      CS3
ATOM  35424  O   PHE C 128     181.250 124.115  21.538  1.00 83.94      CS3
ATOM  35425  N   ALA C 129     179.945 125.945  21.354  1.00 83.03      CS3
ATOM  35426  CA  ALA C 129     179.794 125.848  19.910  1.00 83.03      CS3
ATOM  35427  CB  ALA C 129     178.459 126.445  19.486  1.00148.67      CS3
ATOM  35428  C   ALA C 129     180.941 126.613  19.258  1.00 83.03      CS3
ATOM  35429  O   ALA C 129     180.870 127.833  19.083  1.00 83.03      CS3
ATOM  35430  N   VAL C 130     181.999 125.891  18.903  1.00 58.15      CS3
ATOM  35431  CA  VAL C 130     183.161 126.513  18.283  1.00 58.15      CS3
ATOM  35432  CB  VAL C 130     184.100 125.467  17.631  1.00 48.22      CS3
ATOM  35433  CG1 VAL C 130     185.236 126.169  16.911  1.00 48.22      CS3
ATOM  35434  CG2 VAL C 130     184.677 124.545  18.697  1.00 48.22      CS3
ATOM  35435  C   VAL C 130     182.779 127.534  17.226  1.00 58.15      CS3
ATOM  35436  O   VAL C 130     183.009 128.726  17.399  1.00 58.15      CS3
ATOM  35437  N   ARG C 131     182.175 127.071  16.141  1.00 43.16      CS3
ATOM  35438  CA  ARG C 131     181.823 127.979  15.063  1.00 43.16      CS3
ATOM  35439  CB  ARG C 131     181.090 127.235  13.944  1.00161.15      CS3
ATOM  35440  CG  ARG C 131     181.493 127.724  12.556  1.00161.15      CS3
ATOM  35441  CD  ARG C 131     181.010 126.788  11.461  1.00161.15      CS3
ATOM  35442  NE  ARG C 131     181.367 125.395  11.727  1.00161.15      CS3
ATOM  35443  CZ  ARG C 131     181.197 124.394  10.865  1.00161.15      CS3
ATOM  35444  NH1 ARG C 131     180.676 124.623   9.665  1.00161.15      CS3
ATOM  35445  NH2 ARG C 131     181.538 123.158  11.207  1.00161.15      CS3
ATOM  35446  C   ARG C 131     181.011 129.172  15.537  1.00 43.16      CS3
ATOM  35447  O   ARG C 131     181.111 130.268  14.970  1.00 43.16      CS3
ATOM  35448  N   ARG C 132     180.216 128.970  16.583  1.00 97.22      CS3
ATOM  35449  CA  ARG C 132     179.403 130.054  17.123  1.00 97.22      CS3
ATOM  35450  CB  ARG C 132     178.259 129.493  17.968  1.00200.96      CS3
ATOM  35451  CG  ARG C 132     177.255 130.543  18.415  1.00200.96      CS3
ATOM  35452  CD  ARG C 132     176.215 129.943  19.339  1.00200.96      CS3
ATOM  35453  NE  ARG C 132     175.545 128.803  18.725  1.00200.96      CS3
ATOM  35454  CZ  ARG C 132     174.670 128.026  19.353  1.00200.96      CS3
ATOM  35455  NH1 ARG C 132     174.355 128.266  20.618  1.00200.96      CS3
ATOM  35456  NH2 ARG C 132     174.111 127.006  18.717  1.00200.96      CS3
ATOM  35457  C   ARG C 132     180.284 130.959  17.980  1.00 97.22      CS3
ATOM  35458  O   ARG C 132     180.428 132.151  17.702  1.00 97.22      CS3
ATOM  35459  N   ALA C 133     180.874 130.374  19.020  1.00 82.68      CS3
ATOM  35460  CA  ALA C 133     181.756 131.096  19.933  1.00 82.68      CS3
ATOM  35461  CB  ALA C 133     182.694 130.116  20.619  1.00 27.48      CS3
ATOM  35462  C   ALA C 133     182.563 132.120  19.157  1.00 82.68      CS3
ATOM  35463  O   ALA C 133     182.677 133.285  19.548  1.00 82.68      CS3
ATOM  35464  N   ILE C 134     183.113 131.652  18.043  1.00 47.53      CS3
ATOM  35465  CA  ILE C 134     183.924 132.466  17.162  1.00 47.53      CS3
ATOM  35466  CB  ILE C 134     184.548 131.594  16.082  1.00 76.15      CS3
ATOM  35467  CG2 ILE C 134     185.562 132.393  15.297  1.00 76.15      CS3
ATOM  35468  CG1 ILE C 134     185.221 130.390  16.739  1.00 76.15      CS3
ATOM  35469  CD1 ILE C 134     185.628 129.323  15.771  1.00 76.15      CS3
ATOM  35470  C   ILE C 134     183.064 133.539  16.517  1.00 47.53      CS3
ATOM  35471  O   ILE C 134     183.367 134.728  16.615  1.00 47.53      CS3
ATOM  35472  N   LYS C 135     181.997 133.115  15.849  1.00 77.88      CS3
ATOM  35473  CA  LYS C 135     181.095 134.059  15.210  1.00 77.88      CS3
ATOM  35474  CB  LYS C 135     179.790 133.370  14.808  1.00189.29      CS3
ATOM  35475  CG  LYS C 135     179.860 132.532  13.543  1.00189.29      CS3
ATOM  35476  CD  LYS C 135     178.548 131.782  13.335  1.00189.29      CS3
ATOM  35477  CE  LYS C 135     178.472 131.137  11.961  1.00189.29      CS3
ATOM  35478  NZ  LYS C 135     178.394 132.162  10.885  1.00189.29      CS3
ATOM  35479  C   LYS C 135     180.788 135.157  16.218  1.00 77.88      CS3
ATOM  35480  O   LYS C 135     180.784 136.342  15.876  1.00 77.88      CS3
ATOM  35481  N   GLN C 136     180.536 134.743  17.461  1.00 65.44      CS3
ATOM  35482  CA  GLN C 136     180.223 135.661  18.560  1.00 65.44      CS3
ATOM  35483  CB  GLN C 136     179.840 134.887  19.824  1.00157.68      CS3
ATOM  35484  CG  GLN C 136     178.704 133.899  19.687  1.00157.68      CS3
ATOM  35485  CD  GLN C 136     178.343 133.276  21.024  1.00157.68      CS3
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ATOM  35486  OE1 GLN C 136     177.899 133.967  21.940  1.00157.68      CS3
ATOM  35487  NE2 GLN C 136     178.540 131.967  21.147  1.00157.68      CS3
ATOM  35488  C   GLN C 136     181.425 136.532  18.904  1.00 65.44      CS3
ATOM  35489  O   GLN C 136     181.398 137.758  18.751  1.00 65.44      CS3
ATOM  35490  N   ALA C 137     182.467 135.870  19.398  1.00 68.26      CS3
ATOM  35491  CA  ALA C 137     183.698 136.533  19.782  1.00 68.26      CS3
ATOM  35492  CB  ALA C 137     184.824 135.517  19.870  1.00 46.04      CS3
ATOM  35493  C   ALA C 137     184.034 137.609  18.763  1.00 68.26      CS3
ATOM  35494  O   ALA C 137     184.313 138.755  19.120  1.00 68.26      CS3
ATOM  35495  N   VAL C 138     184.001 137.240  17.490  1.00 34.29      CS3
ATOM  35496  CA  VAL C 138     184.303 138.197  16.443  1.00 34.29      CS3
ATOM  35497  CB  VAL C 138     184.102 137.587  15.050  1.00 76.92      CS3
ATOM  35498  CG1 VAL C 138     184.390 138.631  13.973  1.00 76.92      CS3
ATOM  35499  CG2 VAL C 138     185.010 136.394  14.887  1.00 76.92      CS3
ATOM  35500  C   VAL C 138     183.377 139.392  16.590  1.00 34.29      CS3
ATOM  35501  O   VAL C 138     183.834 140.538  16.706  1.00 34.29      CS3
ATOM  35502  N   GLN C 139     182.076 139.099  16.581  1.00 90.09      CS3
ATOM  35503  CA  GLN C 139     181.028 140.106  16.711  1.00 90.09      CS3
ATOM  35504  CB  GLN C 139     179.666 139.439  16.912  1.00125.28      CS3
ATOM  35505  CG  GLN C 139     178.890 139.193  15.628  1.00125.28      CS3
ATOM  35506  CD  GLN C 139     178.533 140.482  14.901  1.00125.28      CS3
ATOM  35507  OE1 GLN C 139     177.811 140.464  13.902  1.00125.28      CS3
ATOM  35508  NE2 GLN C 139     179.040 141.607  15.399  1.00125.28      CS3
ATOM  35509  C   GLN C 139     181.293 141.049  17.863  1.00 90.09      CS3
ATOM  35510  O   GLN C 139     181.313 142.265  17.676  1.00 90.09      CS3
ATOM  35511  N   ARG C 140     181.479 140.486  19.056  1.00 80.33      CS3
ATOM  35512  CA  ARG C 140     181.758 141.288  20.243  1.00 80.33      CS3
ATOM  35513  CB  ARG C 140     182.424 140.443  21.332  1.00 86.82      CS3
ATOM  35514  CG  ARG C 140     181.660 139.210  21.767  1.00 86.82      CS3
ATOM  35515  CD  ARG C 140     182.570 138.299  22.573  1.00 86.82      CS3
ATOM  35516  NE  ARG C 140     181.931 137.028  22.903  1.00 86.82      CS3
ATOM  35517  CZ  ARG C 140     182.594 135.924  23.242  1.00 86.82      CS3
ATOM  35518  NH1 ARG C 140     183.920 135.930  23.293  1.00 86.82      CS3
ATOM  35519  NH2 ARG C 140     181.932 134.808  23.524  1.00 86.82      CS3
ATOM  35520  C   ARG C 140     182.745 142.344  19.792  1.00 80.33      CS3
ATOM  35521  O   ARG C 140     182.427 143.533  19.692  1.00 80.33      CS3
ATOM  35522  N   VAL C 141     183.948 141.871  19.496  1.00 46.46      CS3
ATOM  35523  CA  VAL C 141     185.031 142.718  19.046  1.00 46.46      CS3
ATOM  35524  CB  VAL C 141     186.163 141.866  18.480  1.00 40.30      CS3
ATOM  35525  CG1 VAL C 141     187.367 142.749  18.150  1.00 40.30      CS3
ATOM  35526  CG2 VAL C 141     186.528 140.774  19.487  1.00 40.30      CS3
ATOM  35527  C   VAL C 141     184.573 143.707  17.983  1.00 46.46      CS3
ATOM  35528  O   VAL C 141     184.833 144.902  18.083  1.00 46.46      CS3
ATOM  35529  N   MET C 142     183.885 143.212  16.965  1.00 77.70      CS3
ATOM  35530  CA  MET C 142     183.426 144.088  15.901  1.00 77.70      CS3
ATOM  35531  CB  MET C 142     182.831 143.261  14.764  1.00 70.41      CS3
ATOM  35532  CG  MET C 142     183.891 142.732  13.830  1.00 70.41      CS3
ATOM  35533  SD  MET C 142     184.975 144.083  13.297  1.00 70.41      CS3
ATOM  35534  CE  MET C 142     184.008 144.802  11.937  1.00 70.41      CS3
ATOM  35535  C   MET C 142     182.432 145.148  16.354  1.00 77.70      CS3
ATOM  35536  O   MET C 142     182.505 146.305  15.931  1.00 77.70      CS3
ATOM  35537  N   GLU C 143     181.504 144.749  17.216  1.00156.30      CS3
ATOM  35538  CA  GLU C 143     180.491 145.665  17.718  1.00156.30      CS3
ATOM  35539  CB  GLU C 143     179.486 144.907  18.591  1.00200.96      CS3
ATOM  35540  CG  GLU C 143     178.271 145.725  19.004  1.00200.96      CS3
ATOM  35541  CD  GLU C 143     177.153 144.865  19.573  1.00200.96      CS3
ATOM  35542  OE1 GLU C 143     177.414 144.096  20.522  1.00200.96      CS3
ATOM  35543  OE2 GLU C 143     176.010 144.961  19.072  1.00200.96      CS3
ATOM  35544  C   GLU C 143     181.149 146.787  18.509  1.00156.30      CS3
ATOM  35545  O   GLU C 143     180.836 147.962  18.309  1.00156.30      CS3
ATOM  35546  N   SER C 144     182.070 146.424  19.398  1.00 75.05      CS3
ATOM  35547  CA  SER C 144     182.771 147.419  20.207  1.00 75.05      CS3
ATOM  35548  CB  SER C 144     183.250 146.796  21.530  1.00 48.45      CS3
ATOM  35549  OG  SER C 144     183.893 145.546  21.348  1.00 48.45      CS3
ATOM  35550  C   SER C 144     183.950 148.062  19.476  1.00 75.05      CS3
ATOM  35551  O   SER C 144     185.108 147.826  19.826  1.00 75.05      CS3
ATOM  35552  N   GLY C 145     183.644 148.884  18.470  1.00 96.24      CS3
ATOM  35553  CA  GLY C 145     184.680 149.548  17.694  1.00 96.24      CS3
ATOM  35554  C   GLY C 145     185.331 148.598  16.704  1.00 96.24      CS3
ATOM  35555  O   GLY C 145     184.643 147.838  16.023  1.00 96.24      CS3
ATOM  35556  N   ALA C 146     186.656 148.641  16.618  1.00 84.40      CS3
ATOM  35557  CA  ALA C 146     187.408 147.759  15.725  1.00 84.40      CS3
ATOM  35558  CB  ALA C 146     187.101 146.299  16.061  1.00 33.94      CS3
ATOM  35559  C   ALA C 146     187.144 148.007  14.247  1.00 84.40      CS3
ATOM  35560  O   ALA C 146     186.006 147.899  13.789  1.00 84.40      CS3
ATOM  35561  N   LYS C 147     188.198 148.330  13.501  1.00 58.52      CS3
ATOM  35562  CA  LYS C 147     188.057 148.570  12.068  1.00 58.52      CS3
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ATOM  35563  CB  LYS C 147     189.187 149.458  11.540  1.00115.61      CS3
ATOM  35564  CG  LYS C 147     189.084 150.912  11.968  1.00115.61      CS3
ATOM  35565  CD  LYS C 147     189.548 151.859  10.862  1.00115.61      CS3
ATOM  35566  CE  LYS C 147     191.007 151.633  10.471  1.00115.61      CS3
ATOM  35567  NZ  LYS C 147     191.459 152.536   9.366  1.00115.61      CS3
ATOM  35568  C   LYS C 147     188.037 147.251  11.299  1.00 58.52      CS3
ATOM  35569  O   LYS C 147     187.859 147.233  10.080  1.00 58.52      CS3
ATOM  35570  N   GLY C 148     188.213 146.154  12.028  1.00 49.92      CS3
ATOM  35571  CA  GLY C 148     188.203 144.837  11.428  1.00 49.92      CS3
ATOM  35572  C   GLY C 148     188.806 143.892  12.435  1.00 49.92      CS3
ATOM  35573  O   GLY C 148     189.687 144.310  13.183  1.00 49.92      CS3
ATOM  35574  N   ALA C 149     188.341 142.644  12.477  1.00 55.32      CS3
ATOM  35575  CA  ALA C 149     188.873 141.662  13.425  1.00 55.32      CS3
ATOM  35576  CB  ALA C 149     188.170 141.798  14.761  1.00 55.87      CS3
ATOM  35577  C   ALA C 149     188.688 140.253  12.864  1.00 55.32      CS3
ATOM  35578  O   ALA C 149     187.986 140.090  11.865  1.00 55.32      CS3
ATOM  35579  N   LYS C 150     189.295 139.244  13.502  1.00 47.75      CS3
ATOM  35580  CA  LYS C 150     189.208 137.863  13.024  1.00 47.75      CS3
ATOM  35581  CB  LYS C 150     189.943 137.786  11.689  1.00 71.59      CS3
ATOM  35582  CG  LYS C 150     190.700 136.510  11.378  1.00 71.59      CS3
ATOM  35583  CD  LYS C 150     191.408 136.703  10.040  1.00 71.59      CS3
ATOM  35584  CE  LYS C 150     192.342 135.568   9.697  1.00 71.59      CS3
ATOM  35585  NZ  LYS C 150     193.209 135.935   8.537  1.00 71.59      CS3
ATOM  35586  C   LYS C 150     189.791 136.858  14.017  1.00 47.75      CS3
ATOM  35587  O   LYS C 150     190.830 137.109  14.619  1.00 47.75      CS3
ATOM  35588  N   VAL C 151     189.129 135.717  14.188  1.00 43.68      CS3
ATOM  35589  CA  VAL C 151     189.600 134.697  15.129  1.00 43.68      CS3
ATOM  35590  CB  VAL C 151     188.580 134.436  16.262  1.00 43.12      CS3
ATOM  35591  CG1 VAL C 151     189.136 133.424  17.255  1.00 43.12      CS3
ATOM  35592  CG2 VAL C 151     188.250 135.723  16.976  1.00 43.12      CS3
ATOM  35593  C   VAL C 151     189.792 133.403  14.377  1.00 43.68      CS3
ATOM  35594  O   VAL C 151     189.199 133.229  13.321  1.00 43.68      CS3
ATOM  35595  N   ILE C 152     190.608 132.503  14.931  1.00 64.73      CS3
ATOM  35596  CA  ILE C 152     190.918 131.203  14.321  1.00 64.73      CS3
ATOM  35597  CB  ILE C 152     192.255 131.254  13.485  1.00 47.96      CS3
ATOM  35598  CG2 ILE C 152     192.738 129.831  13.159  1.00 47.96      CS3
ATOM  35599  CG1 ILE C 152     192.077 132.078  12.200  1.00 47.96      CS3
ATOM  35600  CD1 ILE C 152     192.203 133.599  12.379  1.00 47.96      CS3
ATOM  35601  C   ILE C 152     191.117 130.111  15.375  1.00 64.73      CS3
ATOM  35602  O   ILE C 152     191.874 130.299  16.333  1.00 64.73      CS3
ATOM  35603  N   VAL C 153     190.454 128.971  15.204  1.00 68.96      CS3
ATOM  35604  CA  VAL C 153     190.641 127.865  16.141  1.00 68.96      CS3
ATOM  35605  CB  VAL C 153     189.309 127.377  16.767  1.00 56.39      CS3
ATOM  35606  CG1 VAL C 153     189.576 126.178  17.680  1.00 56.39      CS3
ATOM  35607  CG2 VAL C 153     188.655 128.502  17.566  1.00 56.39      CS3
ATOM  35608  C   VAL C 153     191.292 126.724  15.361  1.00 68.96      CS3
ATOM  35609  O   VAL C 153     191.126 126.632  14.147  1.00 68.96      CS3
ATOM  35610  N   SER C 154     192.027 125.864  16.060  1.00 78.57      CS3
ATOM  35611  CA  SER C 154     192.739 124.755  15.437  1.00 78.57      CS3
ATOM  35612  CB  SER C 154     193.852 124.291  16.351  1.00 84.68      CS3
ATOM  35613  OG  SER C 154     193.310 123.639  17.484  1.00 84.68      CS3
ATOM  35614  C   SER C 154     191.884 123.551  15.062  1.00 78.57      CS3
ATOM  35615  O   SER C 154     190.783 123.710  14.543  1.00 78.57      CS3
ATOM  35616  N   GLY C 155     192.395 122.345  15.334  1.00 80.05      CS3
ATOM  35617  CA  GLY C 155     191.682 121.124  14.975  1.00 80.05      CS3
ATOM  35618  C   GLY C 155     191.254 120.199  16.098  1.00 80.05      CS3
ATOM  35619  O   GLY C 155     191.809 120.229  17.197  1.00 80.05      CS3
ATOM  35620  N   ARG C 156     190.292 119.338  15.775  1.00 82.54      CS3
ATOM  35621  CA  ARG C 156     189.659 118.377  16.688  1.00 82.54      CS3
ATOM  35622  CB  ARG C 156     190.535 117.967  17.869  1.00 43.62      CS3
ATOM  35623  CG  ARG C 156     191.606 117.015  17.474  1.00 43.62      CS3
ATOM  35624  CD  ARG C 156     191.813 115.932  18.508  1.00 43.62      CS3
ATOM  35625  NE  ARG C 156     190.718 114.972  18.539  1.00 43.62      CS3
ATOM  35626  CZ  ARG C 156     190.789 113.760  19.100  1.00 43.62      CS3
ATOM  35627  NH1 ARG C 156     191.910 113.351  19.685  1.00 43.62      CS3
ATOM  35628  NH2 ARG C 156     189.740 112.941  19.065  1.00 43.62      CS3
ATOM  35629  C   ARG C 156     188.446 119.111  17.190  1.00 82.54      CS3
ATOM  35630  O   ARG C 156     187.892 118.808  18.248  1.00 82.54      CS3
ATOM  35631  N   ILE C 157     188.066 120.109  16.400  1.00 53.31      CS3
ATOM  35632  CA  ILE C 157     186.906 120.919  16.672  1.00 53.31      CS3
ATOM  35633  CB  ILE C 157     186.579 121.785  15.461  1.00 41.64      CS3
ATOM  35634  CG2 ILE C 157     185.139 122.228  15.502  1.00 41.64      CS3
ATOM  35635  CG1 ILE C 157     187.525 122.979  15.423  1.00 41.64      CS3
ATOM  35636  CD1 ILE C 157     187.307 123.883  14.218  1.00 41.64      CS3
ATOM  35637  C   ILE C 157     185.739 119.993  16.953  1.00 53.31      CS3
ATOM  35638  O   ILE C 157     185.348 119.196  16.097  1.00 53.31      CS3
ATOM  35639  N   GLY C 158     185.192 120.095  18.157  1.00 92.20      CS3
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ATOM  35640  CA  GLY C 158     184.070 119.255  18.517  1.00 92.20      CS3
ATOM  35641  C   GLY C 158     184.482 117.866  18.962  1.00 92.20      CS3
ATOM  35642  O   GLY C 158     183.650 116.965  19.057  1.00 92.20      CS3
ATOM  35643  N   GLY C 159     185.766 117.682  19.239  1.00 65.49      CS3
ATOM  35644  CA  GLY C 159     186.223 116.379  19.683  1.00 65.49      CS3
ATOM  35645  C   GLY C 159     186.498 115.439  18.531  1.00 65.49      CS3
ATOM  35646  O   GLY C 159     186.769 114.249  18.727  1.00 65.49      CS3
ATOM  35647  N   ALA C 160     186.432 115.993  17.326  1.00102.39      CS3
ATOM  35648  CA  ALA C 160     186.664 115.252  16.097  1.00102.39      CS3
ATOM  35649  CB  ALA C 160     186.621 116.203  14.935  1.00 20.07      CS3
ATOM  35650  C   ALA C 160     187.997 114.512  16.107  1.00102.39      CS3
ATOM  35651  O   ALA C 160     189.035 115.096  16.420  1.00102.39      CS3
ATOM  35652  N   GLU C 161     187.962 113.231  15.749  1.00 88.50      CS3
ATOM  35653  CA  GLU C 161     189.163 112.402  15.711  1.00 88.50      CS3
ATOM  35654  CB  GLU C 161     188.780 110.931  15.538  1.00147.98      CS3
ATOM  35655  CG  GLU C 161     189.952 109.962  15.589  1.00147.98      CS3
ATOM  35656  CD  GLU C 161     189.511 108.504  15.571  1.00147.98      CS3
ATOM  35657  OE1 GLU C 161     190.386 107.619  15.688  1.00147.98      CS3
ATOM  35658  OE2 GLU C 161     188.294 108.242  15.443  1.00147.98      CS3
ATOM  35659  C   GLU C 161     190.068 112.833  14.566  1.00 88.50      CS3
ATOM  35660  O   GLU C 161     191.163 112.300  14.396  1.00 88.50      CS3
ATOM  35661  N   GLN C 162     189.605 113.808  13.789  1.00 49.83      CS3
ATOM  35662  CA  GLN C 162     190.360 114.313  12.652  1.00 49.83      CS3
ATOM  35663  CB  GLN C 162     189.719 113.802  11.358  1.00114.85      CS3
ATOM  35664  CG  GLN C 162     190.571 113.961  10.109  1.00114.85      CS3
ATOM  35665  CD  GLN C 162     190.833 115.408   9.763  1.00114.85      CS3
ATOM  35666  OE1 GLN C 162     189.903 116.200   9.630  1.00114.85      CS3
ATOM  35667  NE2 GLN C 162     192.107 115.764   9.615  1.00114.85      CS3
ATOM  35668  C   GLN C 162     190.384 115.847  12.668  1.00 49.83      CS3
ATOM  35669  O   GLN C 162     189.373 116.491  12.396  1.00 49.83      CS3
ATOM  35670  N   ALA C 163     191.551 116.416  12.980  1.00 40.40      CS3
ATOM  35671  CA  ALA C 163     191.754 117.869  13.054  1.00 40.40      CS3
ATOM  35672  CB  ALA C 163     193.238 118.167  13.162  1.00 69.03      CS3
ATOM  35673  C   ALA C 163     191.154 118.693  11.916  1.00 40.40      CS3
ATOM  35674  O   ALA C 163     191.177 118.288  10.762  1.00 40.40      CS3
ATOM  35675  N   ARG C 164     190.639 119.868  12.259  1.00 42.63      CS3
ATOM  35676  CA  ARG C 164     190.017 120.761  11.285  1.00 42.63      CS3
ATOM  35677  CB  ARG C 164     188.487 120.720  11.426  1.00 87.36      CS3
ATOM  35678  CG  ARG C 164     187.974 119.375  11.931  1.00 87.36      CS3
ATOM  35679  CD  ARG C 164     186.505 119.102  11.633  1.00 87.36      CS3
ATOM  35680  NE  ARG C 164     185.557 119.897  12.412  1.00 87.36      CS3
ATOM  35681  CZ  ARG C 164     185.172 121.131  12.101  1.00 87.36      CS3
ATOM  35682  NH1 ARG C 164     185.659 121.733  11.022  1.00 87.36      CS3
ATOM  35683  NH2 ARG C 164     184.273 121.751  12.853  1.00 87.36      CS3
ATOM  35684  C   ARG C 164     190.540 122.153  11.597  1.00 42.63      CS3
ATOM  35685  O   ARG C 164     191.634 122.275  12.114  1.00 42.63      CS3
ATOM  35686  N   THR C 165     189.767 123.191  11.299  1.00 58.49      CS3
ATOM  35687  CA  THR C 165     190.205 124.559  11.559  1.00 58.49      CS3
ATOM  35688  CB  THR C 165     191.465 124.901  10.727  1.00 56.88      CS3
ATOM  35689  OG1 THR C 165     192.633 124.489  11.441  1.00 56.88      CS3
ATOM  35690  CG2 THR C 165     191.558 126.395  10.458  1.00 56.88      CS3
ATOM  35691  C   THR C 165     189.106 125.568  11.233  1.00 58.49      CS3
ATOM  35692  O   THR C 165     188.719 125.708  10.065  1.00 58.49      CS3
ATOM  35693  N   GLU C 166     188.623 126.288  12.251  1.00 44.56      CS3
ATOM  35694  CA  GLU C 166     187.552 127.255  12.027  1.00 44.56      CS3
ATOM  35695  CB  GLU C 166     186.547 127.203  13.175  1.00105.47      CS3
ATOM  35696  CG  GLU C 166     185.123 126.949  12.698  1.00105.47      CS3
ATOM  35697  CD  GLU C 166     184.978 125.614  11.997  1.00105.47      CS3
ATOM  35698  OE1 GLU C 166     185.029 124.575  12.686  1.00105.47      CS3
ATOM  35699  OE2 GLU C 166     184.819 125.603  10.756  1.00105.47      CS3
ATOM  35700  C   GLU C 166     188.003 128.689  11.782  1.00 44.56      CS3
ATOM  35701  O   GLU C 166     189.042 129.126  12.255  1.00 44.56      CS3
ATOM  35702  N   TRP C 167     187.178 129.427  11.061  1.00 77.77      CS3
ATOM  35703  CA  TRP C 167     187.518 130.778  10.684  1.00 77.77      CS3
ATOM  35704  CB  TRP C 167     187.235 130.936   9.213  1.00 80.88      CS3
ATOM  35705  CG  TRP C 167     188.426 131.189   8.453  1.00 80.88      CS3
ATOM  35706  CD2 TRP C 167     188.708 132.365   7.714  1.00 80.88      CS3
ATOM  35707  CE2 TRP C 167     189.965 132.186   7.122  1.00 80.88      CS3
ATOM  35708  CE3 TRP C 167     188.015 133.559   7.493  1.00 80.88      CS3
ATOM  35709  CD1 TRP C 167     189.483 130.362   8.297  1.00 80.88      CS3
ATOM  35710  NE1 TRP C 167     190.418 130.949   7.497  1.00 80.88      CS3
ATOM  35711  CZ2 TRP C 167     190.557 133.161   6.317  1.00 80.88      CS3
ATOM  35712  CZ3 TRP C 167     188.596 134.526   6.696  1.00 80.88      CS3
ATOM  35713  CH2 TRP C 167     189.857 134.323   6.114  1.00 80.88      CS3
ATOM  35714  C   TRP C 167     186.869 131.929  11.411  1.00 77.77      CS3
ATOM  35715  O   TRP C 167     187.028 132.080  12.618  1.00 77.77      CS3
ATOM  35716  N   ALA C 168     186.160 132.752  10.632  1.00 41.64      CS3
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ATOM  35717  CA  ALA C 168     185.441 133.947  11.091  1.00 41.64      CS3
ATOM  35718  CB  ALA C 168     184.852 133.738  12.485  1.00 25.02      CS3
ATOM  35719  C   ALA C 168     186.324 135.180  11.089  1.00 41.64      CS3
ATOM  35720  O   ALA C 168     187.340 135.237  11.792  1.00 41.64      CS3
ATOM  35721  N   ALA C 169     185.914 136.165  10.296  1.00 38.36      CS3
ATOM  35722  CA  ALA C 169     186.639 137.415  10.178  1.00 38.36      CS3
ATOM  35723  CB  ALA C 169     187.811 137.229   9.260  1.00 68.18      CS3
ATOM  35724  C   ALA C 169     185.712 138.483   9.622  1.00 38.36      CS3
ATOM  35725  O   ALA C 169     184.772 138.166   8.909  1.00 38.36      CS3
ATOM  35726  N   GLN C 170     185.979 139.744   9.953  1.00 61.36      CS3
ATOM  35727  CA  GLN C 170     185.175 140.868   9.473  1.00 61.36      CS3
ATOM  35728  CB  GLN C 170     183.969 141.106  10.382  1.00128.42      CS3
ATOM  35729  CG  GLN C 170     182.792 140.198  10.109  1.00128.42      CS3
ATOM  35730  CD  GLN C 170     181.532 140.673  10.802  1.00128.42      CS3
ATOM  35731  OE1 GLN C 170     181.088 141.807  10.601  1.00128.42      CS3
ATOM  35732  NE2 GLN C 170     180.945 139.807  11.622  1.00128.42      CS3
ATOM  35733  C   GLN C 170     185.999 142.149   9.393  1.00 61.36      CS3
ATOM  35734  O   GLN C 170     186.936 142.340  10.179  1.00 61.36      CS3
ATOM  35735  N   GLY C 171     185.641 143.015   8.441  1.00 62.38      CS3
ATOM  35736  CA  GLY C 171     186.341 144.275   8.245  1.00 62.38      CS3
ATOM  35737  C   GLY C 171     187.828 144.111   7.989  1.00 62.38      CS3
ATOM  35738  O   GLY C 171     188.430 143.133   8.427  1.00 62.38      CS3
ATOM  35739  N   ARG C 172     188.435 145.066   7.291  1.00 51.36      CS3
ATOM  35740  CA  ARG C 172     189.863 144.996   6.986  1.00 51.36      CS3
ATOM  35741  CB  ARG C 172     190.415 146.388   6.665  1.00 92.32      CS3
ATOM  35742  CG  ARG C 172     189.641 147.119   5.596  1.00 92.32      CS3
ATOM  35743  CD  ARG C 172     190.539 147.647   4.479  1.00 92.32      CS3
ATOM  35744  NE  ARG C 172     191.078 148.988   4.721  1.00 92.32      CS3
ATOM  35745  CZ  ARG C 172     192.113 149.260   5.511  1.00 92.32      CS3
ATOM  35746  NH1 ARG C 172     192.742 148.282   6.156  1.00 92.32      CS3
ATOM  35747  NH2 ARG C 172     192.527 150.515   5.643  1.00 92.32      CS3
ATOM  35748  C   ARG C 172     190.677 144.404   8.133  1.00 51.36      CS3
ATOM  35749  O   ARG C 172     190.580 144.852   9.270  1.00 51.36      CS3
ATOM  35750  N   VAL C 173     191.460 143.375   7.844  1.00 42.66      CS3
ATOM  35751  CA  VAL C 173     192.326 142.790   8.855  1.00 42.66      CS3
ATOM  35752  CB  VAL C 173     191.742 141.484   9.415  1.00 31.56      CS3
ATOM  35753  CG1 VAL C 173     192.677 140.887  10.486  1.00 31.56      CS3
ATOM  35754  CG2 VAL C 173     190.373 141.766   9.987  1.00 31.56      CS3
ATOM  35755  C   VAL C 173     193.642 142.528   8.142  1.00 42.66      CS3
ATOM  35756  O   VAL C 173     194.219 141.451   8.244  1.00 42.66      CS3
ATOM  35757  N   PRO C 174     194.144 143.541   7.425  1.00 76.16      CS3
ATOM  35758  CD  PRO C 174     193.728 144.948   7.578  1.00 50.70      CS3
ATOM  35759  CA  PRO C 174     195.394 143.460   6.670  1.00 76.16      CS3
ATOM  35760  CB  PRO C 174     195.544 144.872   6.126  1.00 50.70      CS3
ATOM  35761  CG  PRO C 174     194.978 145.700   7.231  1.00 50.70      CS3
ATOM  35762  C   PRO C 174     196.585 143.047   7.518  1.00 76.16      CS3
ATOM  35763  O   PRO C 174     196.749 143.528   8.638  1.00 76.16      CS3
ATOM  35764  N   LEU C 175     197.414 142.155   6.988  1.00 75.08      CS3
ATOM  35765  CA  LEU C 175     198.588 141.722   7.723  1.00 75.08      CS3
ATOM  35766  CB  LEU C 175     198.526 140.232   8.011  1.00 25.79      CS3
ATOM  35767  CG  LEU C 175     197.359 139.842   8.909  1.00 25.79      CS3
ATOM  35768  CD1 LEU C 175     197.526 138.397   9.335  1.00 25.79      CS3
ATOM  35769  CD2 LEU C 175     197.299 140.741  10.128  1.00 25.79      CS3
ATOM  35770  C   LEU C 175     199.844 142.038   6.949  1.00 75.08      CS3
ATOM  35771  O   LEU C 175     200.955 141.813   7.428  1.00 75.08      CS3
ATOM  35772  N   HIS C 176     199.666 142.556   5.742  1.00 87.66      CS3
ATOM  35773  CA  HIS C 176     200.806 142.908   4.917  1.00 87.66      CS3
ATOM  35774  CB  HIS C 176     200.536 142.567   3.449  1.00 62.64      CS3
ATOM  35775  CG  HIS C 176     200.881 141.156   3.087  1.00 62.64      CS3
ATOM  35776  CD2 HIS C 176     201.691 140.657   2.127  1.00 62.64      CS3
ATOM  35777  ND1 HIS C 176     200.343 140.065   3.738  1.00 62.64      CS3
ATOM  35778  CE1 HIS C 176     200.799 138.956   3.189  1.00 62.64      CS3
ATOM  35779  NE2 HIS C 176     201.617 139.287   2.206  1.00 62.64      CS3
ATOM  35780  C   HIS C 176     201.091 144.384   5.078  1.00 87.66      CS3
ATOM  35781  O   HIS C 176     202.206 144.843   4.829  1.00 87.66      CS3
ATOM  35782  N   THR C 177     200.080 145.130   5.501  1.00 64.69      CS3
ATOM  35783  CA  THR C 177     200.254 146.558   5.707  1.00 64.69      CS3
ATOM  35784  CB  THR C 177     198.906 147.279   5.703  1.00 99.30      CS3
ATOM  35785  OG1 THR C 177     199.093 148.647   6.079  1.00 99.30      CS3
ATOM  35786  CG2 THR C 177     197.963 146.614   6.655  1.00 99.30      CS3
ATOM  35787  C   THR C 177     200.971 146.770   7.040  1.00 64.69      CS3
ATOM  35788  O   THR C 177     200.365 146.761   8.108  1.00 64.69      CS3
ATOM  35789  N   LEU C 178     202.286 146.926   6.950  1.00106.12      CS3
ATOM  35790  CA  LEU C 178     203.137 147.125   8.111  1.00106.12      CS3
ATOM  35791  CB  LEU C 178     204.594 146.879   7.718  1.00 69.39      CS3
ATOM  35792  CG  LEU C 178     205.645 146.770   8.818  1.00 69.39      CS3
ATOM  35793  CD1 LEU C 178     205.221 145.743   9.849  1.00 69.39      CS3
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ATOM  35794  CD2 LEU C 178     206.974 146.378   8.204  1.00 69.39      CS3
ATOM  35795  C   LEU C 178     202.951 148.557   8.553  1.00106.12      CS3
ATOM  35796  O   LEU C 178     203.826 149.390   8.354  1.00106.12      CS3
ATOM  35797  N   ARG C 179     201.801 148.838   9.147  1.00 70.16      CS3
ATOM  35798  CA  ARG C 179     201.469 150.182   9.597  1.00 70.16      CS3
ATOM  35799  CB  ARG C 179     201.511 151.147   8.409  1.00 94.24      CS3
ATOM  35800  CG  ARG C 179     201.074 152.562   8.703  1.00 94.24      CS3
ATOM  35801  CD  ARG C 179     199.581 152.730   8.551  1.00 94.24      CS3
ATOM  35802  NE  ARG C 179     199.141 152.661   7.158  1.00 94.24      CS3
ATOM  35803  CZ  ARG C 179     199.541 153.488   6.191  1.00 94.24      CS3
ATOM  35804  NH1 ARG C 179     200.408 154.461   6.455  1.00 94.24      CS3
ATOM  35805  NH2 ARG C 179     199.060 153.352   4.957  1.00 94.24      CS3
ATOM  35806  C   ARG C 179     200.070 150.145  10.181  1.00 70.16      CS3
ATOM  35807  O   ARG C 179     199.708 150.961  11.009  1.00 70.16      CS3
ATOM  35808  N   ALA C 180     199.283 149.178   9.739  1.00 84.91      CS3
ATOM  35809  CA  ALA C 180     197.925 149.037  10.216  1.00 84.91      CS3
ATOM  35810  CB  ALA C 180     197.277 147.831   9.573  1.00136.65      CS3
ATOM  35811  C   ALA C 180     197.855 148.907  11.728  1.00 84.91      CS3
ATOM  35812  O   ALA C 180     197.156 149.682  12.386  1.00 84.91      CS3
ATOM  35813  N   ASN C 181     198.581 147.935  12.276  1.00 55.65      CS3
ATOM  35814  CA  ASN C 181     198.567 147.674  13.723  1.00 55.65      CS3
ATOM  35815  CB  ASN C 181     198.415 148.959  14.549  1.00 88.94      CS3
ATOM  35816  CG  ASN C 181     197.792 148.704  15.919  1.00 88.94      CS3
ATOM  35817  OD1 ASN C 181     198.155 147.755  16.616  1.00 88.94      CS3
ATOM  35818  ND2 ASN C 181     196.856 149.557  16.308  1.00 88.94      CS3
ATOM  35819  C   ASN C 181     197.410 146.750  14.055  1.00 55.65      CS3
ATOM  35820  O   ASN C 181     196.238 147.086  13.869  1.00 55.65      CS3
ATOM  35821  N   ILE C 182     197.738 145.584  14.577  1.00 44.08      CS3
ATOM  35822  CA  ILE C 182     196.698 144.633  14.873  1.00 44.08      CS3
ATOM  35823  CB  ILE C 182     196.547 143.604  13.718  1.00 84.66      CS3
ATOM  35824  CG2 ILE C 182     195.374 142.682  14.001  1.00 84.66      CS3
ATOM  35825  CG1 ILE C 182     196.373 144.315  12.372  1.00 84.66      CS3
ATOM  35826  CD1 ILE C 182     197.664 144.809  11.750  1.00 84.66      CS3
ATOM  35827  C   ILE C 182     197.000 143.854  16.130  1.00 44.08      CS3
ATOM  35828  O   ILE C 182     197.731 142.866  16.091  1.00 44.08      CS3
ATOM  35829  N   ASP C 183     196.454 144.265  17.257  1.00 49.60      CS3
ATOM  35830  CA  ASP C 183     196.729 143.468  18.434  1.00 49.60      CS3
ATOM  35831  CB  ASP C 183     195.789 143.835  19.581  1.00 96.58      CS3
ATOM  35832  CG  ASP C 183     196.175 143.166  20.883  1.00 96.58      CS3
ATOM  35833  OD1 ASP C 183     195.462 143.377  21.886  1.00 96.58      CS3
ATOM  35834  OD2 ASP C 183     197.189 142.433  20.902  1.00 96.58      CS3
ATOM  35835  C   ASP C 183     196.497 142.013  18.001  1.00 49.60      CS3
ATOM  35836  O   ASP C 183     195.532 141.685  17.298  1.00 49.60      CS3
ATOM  35837  N   TYR C 184     197.413 141.151  18.387  1.00 51.77      CS3
ATOM  35838  CA  TYR C 184     197.303 139.755  18.045  1.00 51.77      CS3
ATOM  35839  CB  TYR C 184     198.481 139.337  17.151  1.00 60.44      CS3
ATOM  35840  CG  TYR C 184     198.793 137.849  17.153  1.00 60.44      CS3
ATOM  35841  CD1 TYR C 184     198.232 136.986  16.203  1.00 60.44      CS3
ATOM  35842  CE1 TYR C 184     198.496 135.612  16.235  1.00 60.44      CS3
ATOM  35843  CD2 TYR C 184     199.627 137.300  18.135  1.00 60.44      CS3
ATOM  35844  CE2 TYR C 184     199.896 135.937  18.179  1.00 60.44      CS3
ATOM  35845  CZ  TYR C 184     199.330 135.096  17.231  1.00 60.44      CS3
ATOM  35846  OH  TYR C 184     199.595 133.743  17.302  1.00 60.44      CS3
ATOM  35847  C   TYR C 184     197.361 139.027  19.365  1.00 51.77      CS3
ATOM  35848  O   TYR C 184     198.045 139.461  20.293  1.00 51.77      CS3
ATOM  35849  N   GLY C 185     196.643 137.923  19.455  1.00 47.49      CS3
ATOM  35850  CA  GLY C 185     196.665 137.170  20.682  1.00 47.49      CS3
ATOM  35851  C   GLY C 185     196.408 135.722  20.385  1.00 47.49      CS3
ATOM  35852  O   GLY C 185     195.676 135.392  19.449  1.00 47.49      CS3
ATOM  35853  N   PHE C 186     197.020 134.858  21.178  1.00 58.17      CS3
ATOM  35854  CA  PHE C 186     196.852 133.429  21.023  1.00 58.17      CS3
ATOM  35855  CB  PHE C 186     198.171 132.771  20.628  1.00 43.82      CS3
ATOM  35856  CG  PHE C 186     198.157 131.266  20.720  1.00 43.82      CS3
ATOM  35857  CD1 PHE C 186     197.567 130.495  19.719  1.00 43.82      CS3
ATOM  35858  CD2 PHE C 186     198.698 130.622  21.825  1.00 43.82      CS3
ATOM  35859  CE1 PHE C 186     197.512 129.097  19.824  1.00 43.82      CS3
ATOM  35860  CE2 PHE C 186     198.650 129.229  21.938  1.00 43.82      CS3
ATOM  35861  CZ  PHE C 186     198.054 128.466  20.936  1.00 43.82      CS3
ATOM  35862  C   PHE C 186     196.422 132.896  22.363  1.00 58.17      CS3
ATOM  35863  O   PHE C 186     196.788 133.443  23.401  1.00 58.17      CS3
ATOM  35864  N   ALA C 187     195.643 131.825  22.339  1.00 52.89      CS3
ATOM  35865  CA  ALA C 187     195.177 131.196  23.559  1.00 52.89      CS3
ATOM  35866  CB  ALA C 187     193.744 131.622  23.864  1.00 33.86      CS3
ATOM  35867  C   ALA C 187     195.235 129.714  23.297  1.00 52.89      CS3
ATOM  35868  O   ALA C 187     194.867 129.259  22.207  1.00 52.89      CS3
ATOM  35869  N   LEU C 188     195.717 128.965  24.282  1.00 45.27      CS3
ATOM  35870  CA  LEU C 188     195.801 127.519  24.162  1.00 45.27      CS3
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ATOM  35871  CB  LEU C 188     196.881 126.997  25.108  1.00 65.92       CS3
ATOM  35872  CG  LEU C 188     197.795 125.848  24.660  1.00 65.92       CS3
ATOM  35873  CD1 LEU C 188     197.161 124.508  24.950  1.00 65.92       CS3
ATOM  35874  CD2 LEU C 188     198.109 126.002  23.184  1.00 65.92       CS3
ATOM  35875  C   LEU C 188     194.414 126.990  24.551  1.00 45.27       CS3
ATOM  35876  O   LEU C 188     193.445 127.751  24.579  1.00 45.27       CS3
ATOM  35877  N   ALA C 189     194.296 125.702  24.847  1.00 52.87       CS3
ATOM  35878  CA  ALA C 189     192.999 125.152  25.233  1.00 52.87       CS3
ATOM  35879  CB  ALA C 189     191.941 125.469  24.167  1.00  1.96       CS3
ATOM  35880  C   ALA C 189     193.091 123.661  25.425  1.00 52.87       CS3
ATOM  35881  O   ALA C 189     192.870 122.904  24.489  1.00 52.87       CS3
ATOM  35882  N   ARG C 190     193.423 123.231  26.634  1.00 64.52       CS3
ATOM  35883  CA  ARG C 190     193.521 121.803  26.906  1.00 64.52       CS3
ATOM  35884  CB  ARG C 190     194.071 121.578  28.317  1.00165.42       CS3
ATOM  35885  CG  ARG C 190     195.406 122.271  28.564  1.00165.42       CS3
ATOM  35886  CD  ARG C 190     195.789 122.273  30.036  1.00165.42       CS3
ATOM  35887  NE  ARG C 190     196.792 121.266  30.385  1.00165.42       CS3
ATOM  35888  CZ  ARG C 190     196.616 119.952  30.290  1.00165.42       CS3
ATOM  35889  NH1 ARG C 190     195.465 119.460  29.848  1.00165.42       CS3
ATOM  35890  NH2 ARG C 190     197.590 119.126  30.653  1.00165.42       CS3
ATOM  35891  C   ARG C 190     192.123 121.188  26.771  1.00 64.52       CS3
ATOM  35892  O   ARG C 190     191.116 121.899  26.802  1.00 64.52       CS3
ATOM  35893  N   THR C 191     192.060 119.871  26.614  1.00 82.23       CS3
ATOM  35894  CA  THR C 191     190.782 119.185  26.466  1.00 82.23       CS3
ATOM  35895  CB  THR C 191     190.244 119.293  25.030  1.00 73.51       CS3
ATOM  35896  OG1 THR C 191     189.944 120.660  24.718  1.00 73.51       CS3
ATOM  35897  CG2 THR C 191     189.000 118.467  24.889  1.00 73.51       CS3
ATOM  35898  C   THR C 191     190.937 117.710  26.786  1.00 82.23       CS3
ATOM  35899  O   THR C 191     192.051 117.211  26.902  1.00 82.23       CS3
ATOM  35900  N   THR C 192     189.816 117.014  26.925  1.00 85.34       CS3
ATOM  35901  CA  THR C 192     189.834 115.589  27.218  1.00 85.34       CS3
ATOM  35902  CB  THR C 192     188.409 115.033  27.335  1.00129.35       CS3
ATOM  35903  OG1 THR C 192     187.613 115.928  28.119  1.00129.35       CS3
ATOM  35904  CG2 THR C 192     188.427 113.657  27.991  1.00129.35       CS3
ATOM  35905  C   THR C 192     190.524 114.856  26.078  1.00 85.34       CS3
ATOM  35906  O   THR C 192     191.332 113.956  26.298  1.00 85.34       CS3
ATOM  35907  N   TYR C 193     190.194 115.262  24.857  1.00105.35       CS3
ATOM  35908  CA  TYR C 193     190.746 114.652  23.660  1.00105.35       CS3
ATOM  35909  CB  TYR C 193     189.704 114.694  22.545  1.00122.75       CS3
ATOM  35910  CG  TYR C 193     189.055 116.046  22.372  1.00122.75       CS3
ATOM  35911  CD1 TYR C 193     189.787 117.145  21.925  1.00122.75       CS3
ATOM  35912  CE1 TYR C 193     189.187 118.396  21.762  1.00122.75       CS3
ATOM  35913  CD2 TYR C 193     187.704 116.228  22.656  1.00122.75       CS3
ATOM  35914  CE2 TYR C 193     187.092 117.473  22.500  1.00122.75       CS3
ATOM  35915  CZ  TYR C 193     187.838 118.553  22.053  1.00122.75       CS3
ATOM  35916  OH  TYR C 193     187.234 119.784  21.910  1.00122.75       CS3
ATOM  35917  C   TYR C 193     192.041 115.295  23.183  1.00105.35       CS3
ATOM  35918  O   TYR C 193     192.836 114.651  22.505  1.00105.35       CS3
ATOM  35919  N   GLY C 194     192.255 116.563  23.521  1.00 89.00       CS3
ATOM  35920  CA  GLY C 194     193.476 117.221  23.093  1.00 89.00       CS3
ATOM  35921  C   GLY C 194     193.442 118.733  22.957  1.00 89.00       CS3
ATOM  35922  O   GLY C 194     192.391 119.374  22.954  1.00 89.00       CS3
ATOM  35923  N   VAL C 195     194.635 119.293  22.825  1.00 49.23       CS3
ATOM  35924  CA  VAL C 195     194.854 120.721  22.692  1.00 49.23       CS3
ATOM  35925  CB  VAL C 195     196.364 120.982  22.569  1.00 54.25       CS3
ATOM  35926  CG1 VAL C 195     196.637 122.472  22.473  1.00 54.25       CS3
ATOM  35927  CG2 VAL C 195     197.088 120.362  23.763  1.00 54.25       CS3
ATOM  35928  C   VAL C 195     194.125 121.348  21.501  1.00 49.23       CS3
ATOM  35929  O   VAL C 195     193.593 120.644  20.652  1.00 49.23       CS3
ATOM  35930  N   LEU C 196     194.109 122.678  21.461  1.00 42.69       CS3
ATOM  35931  CA  LEU C 196     193.469 123.462  20.405  1.00 42.69       CS3
ATOM  35932  CB  LEU C 196     191.958 123.529  20.597  1.00 45.35       CS3
ATOM  35933  CG  LEU C 196     191.066 122.557  19.831  1.00 45.35       CS3
ATOM  35934  CD1 LEU C 196     190.618 121.420  20.750  1.00 45.35       CS3
ATOM  35935  CD2 LEU C 196     189.868 123.326  19.270  1.00 45.35       CS3
ATOM  35936  C   LEU C 196     194.005 124.877  20.482  1.00 42.69       CS3
ATOM  35937  O   LEU C 196     194.047 125.470  21.553  1.00 42.69       CS3
ATOM  35938  N   GLY C 197     194.394 125.441  19.353  1.00 59.60       CS3
ATOM  35939  CA  GLY C 197     194.936 126.779  19.396  1.00 59.60       CS3
ATOM  35940  C   GLY C 197     193.943 127.819  18.955  1.00 59.60       CS3
ATOM  35941  O   GLY C 197     193.209 127.615  17.983  1.00 59.60       CS3
ATOM  35942  N   VAL C 198     193.910 128.943  19.658  1.00 50.59       CS3
ATOM  35943  CA  VAL C 198     192.987 129.992  19.279  1.00 50.59       CS3
ATOM  35944  CB  VAL C 198     192.076 130.385  20.443  1.00 40.65       CS3
ATOM  35945  CG1 VAL C 198     190.932 131.263  19.922  1.00 40.65       CS3
ATOM  35946  CG2 VAL C 198     191.546 129.137  21.139  1.00 40.65       CS3
ATOM  35947  C   VAL C 198     193.795 131.192  18.856  1.00 50.59       CS3
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ATOM  35948  O   VAL C 198     194.878 131.414  19.369  1.00 50.59      CS3
ATOM  35949  N   LYS C 199     193.276 131.970  17.920  1.00 54.74      CS3
ATOM  35950  CA  LYS C 199     194.010 133.132  17.468  1.00 54.74      CS3
ATOM  35951  CB  LYS C 199     194.779 132.812  16.188  1.00 99.50      CS3
ATOM  35952  CG  LYS C 199     195.927 131.836  16.356  1.00 99.50      CS3
ATOM  35953  CD  LYS C 199     196.823 131.879  15.126  1.00 99.50      CS3
ATOM  35954  CE  LYS C 199     198.002 130.926  15.230  1.00 99.50      CS3
ATOM  35955  NZ  LYS C 199     198.956 131.170  14.111  1.00 99.50      CS3
ATOM  35956  C   LYS C 199     193.119 134.328  17.221  1.00 54.74      CS3
ATOM  35957  O   LYS C 199     192.173 134.262  16.435  1.00 54.74      CS3
ATOM  35958  N   ALA C 200     193.436 135.435  17.876  1.00 39.29      CS3
ATOM  35959  CA  ALA C 200     192.643 136.637  17.700  1.00 39.29      CS3
ATOM  35960  CB  ALA C 200     192.144 137.143  19.047  1.00109.78      CS3
ATOM  35961  C   ALA C 200     193.444 137.715  17.006  1.00 39.29      CS3
ATOM  35962  O   ALA C 200     194.619 137.930  17.310  1.00 39.29      CS3
ATOM  35963  N   TYR C 201     192.796 138.383  16.065  1.00 47.04      CS3
ATOM  35964  CA  TYR C 201     193.423 139.453  15.316  1.00 47.04      CS3
ATOM  35965  CB  TYR C 201     193.636 139.069  13.847  1.00 67.72      CS3
ATOM  35966  CG  TYR C 201     194.632 137.966  13.581  1.00 67.72      CS3
ATOM  35967  CD1 TYR C 201     194.398 136.660  14.011  1.00 67.72      CS3
ATOM  35968  CE1 TYR C 201     195.300 135.637  13.734  1.00 67.72      CS3
ATOM  35969  CD2 TYR C 201     195.797 138.224  12.869  1.00 67.72      CS3
ATOM  35970  CE2 TYR C 201     196.703 137.213  12.589  1.00 67.72      CS3
ATOM  35971  CZ  TYR C 201     196.449 135.922  13.021  1.00 67.72      CS3
ATOM  35972  OH  TYR C 201     197.341 134.919  12.715  1.00 67.72      CS3
ATOM  35973  C   TYR C 201     192.453 140.608  15.348  1.00 47.04      CS3
ATOM  35974  O   TYR C 201     191.299 140.465  14.911  1.00 47.04      CS3
ATOM  35975  N   ILE C 202     192.897 141.754  15.854  1.00 55.63      CS3
ATOM  35976  CA  ILE C 202     192.011 142.900  15.883  1.00 55.63      CS3
ATOM  35977  CB  ILE C 202     191.551 143.230  17.313  1.00 49.82      CS3
ATOM  35978  CG2 ILE C 202     190.345 144.147  17.252  1.00 49.82      CS3
ATOM  35979  CG1 ILE C 202     191.130 141.953  18.041  1.00 49.82      CS3
ATOM  35980  CD1 ILE C 202     190.661 142.167  19.455  1.00 49.82      CS3
ATOM  35981  C   ILE C 202     192.681 144.111  15.266  1.00 55.63      CS3
ATOM  35982  O   ILE C 202     193.655 144.642  15.792  1.00 55.63      CS3
ATOM  35983  N   PHE C 203     192.160 144.522  14.121  1.00 53.80      CS3
ATOM  35984  CA  PHE C 203     192.672 145.674  13.400  1.00 53.80      CS3
ATOM  35985  CB  PHE C 203     192.144 145.647  11.971  1.00 32.61      CS3
ATOM  35986  CG  PHE C 203     192.477 146.861  11.174  1.00 32.61      CS3
ATOM  35987  CD1 PHE C 203     193.740 147.419  11.224  1.00 32.61      CS3
ATOM  35988  CD2 PHE C 203     191.544 147.407  10.306  1.00 32.61      CS3
ATOM  35989  CE1 PHE C 203     194.074 148.518  10.402  1.00 32.61      CS3
ATOM  35990  CE2 PHE C 203     191.863 148.497   9.485  1.00 32.61      CS3
ATOM  35991  CZ  PHE C 203     193.131 149.053   9.533  1.00 32.61      CS3
ATOM  35992  C   PHE C 203     192.160 146.896  14.126  1.00 53.80      CS3
ATOM  35993  O   PHE C 203     191.010 146.912  14.557  1.00 53.80      CS3
ATOM  35994  N   LEU C 204     193.012 147.911  14.266  1.00108.57      CS3
ATOM  35995  CA  LEU C 204     192.655 149.151  14.960  1.00108.57      CS3
ATOM  35996  CB  LEU C 204     193.172 149.109  16.398  1.00 52.06      CS3
ATOM  35997  CG  LEU C 204     192.682 147.889  17.177  1.00 52.06      CS3
ATOM  35998  CD1 LEU C 204     193.509 147.655  18.441  1.00 52.06      CS3
ATOM  35999  CD2 LEU C 204     191.213 148.097  17.506  1.00 52.06      CS3
ATOM  36000  C   LEU C 204     193.262 150.350  14.249  1.00108.57      CS3
ATOM  36001  O   LEU C 204     194.458 150.357  13.957  1.00108.57      CS3
ATOM  36002  N   GLY C 205     192.445 151.366  13.985  1.00169.57      CS3
ATOM  36003  CA  GLY C 205     192.941 152.548  13.300  1.00169.57      CS3
ATOM  36004  C   GLY C 205     193.880 152.130  12.188  1.00169.57      CS3
ATOM  36005  O   GLY C 205     193.675 151.087  11.575  1.00169.57      CS3
ATOM  36006  N   GLU C 206     194.910 152.923  11.917  1.00117.73      CS3
ATOM  36007  CA  GLU C 206     195.851 152.552  10.877  1.00117.73      CS3
ATOM  36008  CB  GLU C 206     195.188 152.621   9.500  1.00109.12      CS3
ATOM  36009  CG  GLU C 206     195.916 151.798   8.439  1.00109.12      CS3
ATOM  36010  CD  GLU C 206     195.246 151.847   7.077  1.00109.12      CS3
ATOM  36011  OE1 GLU C 206     195.729 151.158   6.152  1.00109.12      CS3
ATOM  36012  OE2 GLU C 206     194.238 152.573   6.929  1.00109.12      CS3
ATOM  36013  C   GLU C 206     197.124 153.386  10.876  1.00117.73      CS3
ATOM  36014  O   GLU C 206     198.166 152.913  11.326  1.00117.73      CS3
ATOM  36015  N   VAL C 207     197.045 154.620  10.383  1.00 97.06      CS3
ATOM  36016  CA  VAL C 207     198.218 155.499  10.306  1.00 97.06      CS3
ATOM  36017  CB  VAL C 207     197.792 156.974  10.060  1.00161.17      CS3
ATOM  36018  CG1 VAL C 207     199.015 157.839   9.764  1.00161.17      CS3
ATOM  36019  CG2 VAL C 207     196.809 157.043   8.902  1.00161.17      CS3
ATOM  36020  C   VAL C 207     199.126 155.442  11.543  1.00 97.06      CS3
ATOM  36021  O   VAL C 207     198.742 154.809  12.550  1.00 97.06      CS3
ATOM  36022  OXT VAL C 207     200.225 156.036  11.490  1.00161.17      CS3
TER   36022       VAL C 207                                              CS3
ATOM  36023  C   GLY D   2     150.568  95.401  32.465  1.00 99.72      DS4
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ATOM  36024  O   GLY D   2     151.735  95.742  32.257  1.00 99.72      DS4
ATOM  36025  N   GLY D   2     150.244  93.078  31.506  1.00 99.72      DS4
ATOM  36026  CA  GLY D   2     150.225  93.943  32.728  1.00 99.72      DS4
ATOM  36027  N   ARG D   3     149.554  96.263  32.492  1.00 84.85      DS4
ATOM  36028  CA  ARG D   3     149.738  97.687  32.244  1.00 84.85      DS4
ATOM  36029  CB  ARG D   3     148.485  98.450  32.677  1.00200.96      DS4
ATOM  36030  CG  ARG D   3     147.224  97.928  32.001  1.00200.96      DS4
ATOM  36031  CD  ARG D   3     147.407  97.860  30.486  1.00200.96      DS4
ATOM  36032  NE  ARG D   3     146.434  96.980  29.844  1.00200.96      DS4
ATOM  36033  CZ  ARG D   3     145.135  97.240  29.737  1.00200.96      DS4
ATOM  36034  NH1 ARG D   3     144.636  98.366  30.228  1.00200.96      DS4
ATOM  36035  NH2 ARG D   3     144.333  96.366  29.145  1.00200.96      DS4
ATOM  36036  C   ARG D   3     150.986  98.272  32.909  1.00 84.85      DS4
ATOM  36037  O   ARG D   3     150.989  98.660  34.075  1.00 84.85      DS4
ATOM  36038  N   TYR D   4     152.050  98.336  32.129  1.00106.08      DS4
ATOM  36039  CA  TYR D   4     153.330  98.845  32.574  1.00106.08      DS4
ATOM  36040  CB  TYR D   4     153.335 100.371  32.640  1.00 71.60      DS4
ATOM  36041  CG  TYR D   4     154.712 100.883  33.000  1.00 71.60      DS4
ATOM  36042  CD1 TYR D   4     155.845 100.291  32.452  1.00 71.60      DS4
ATOM  36043  CE1 TYR D   4     157.113 100.681  32.831  1.00 71.60      DS4
ATOM  36044  CD2 TYR D   4     154.892 101.900  33.937  1.00 71.60      DS4
ATOM  36045  CE2 TYR D   4     156.168 102.302  34.324  1.00 71.60      DS4
ATOM  36046  CZ  TYR D   4     157.273 101.680  33.767  1.00 71.60      DS4
ATOM  36047  OH  TYR D   4     158.545 102.015  34.159  1.00 71.60      DS4
ATOM  36048  C   TYR D   4     153.883  98.301  33.884  1.00106.08      DS4
ATOM  36049  O   TYR D   4     154.638  97.326  33.870  1.00106.08      DS4
ATOM  36050  N   ILE D   5     153.522  98.918  35.008  1.00 57.87      DS4
ATOM  36051  CA  ILE D   5     154.065  98.493  36.303  1.00 57.87      DS4
ATOM  36052  CB  ILE D   5     154.001  96.963  36.499  1.00 55.29      DS4
ATOM  36053  CG2 ILE D   5     154.992  96.526  37.554  1.00 55.29      DS4
ATOM  36054  CG1 ILE D   5     152.598  96.528  36.887  1.00 55.29      DS4
ATOM  36055  CD1 ILE D   5     152.467  95.008  37.004  1.00 55.29      DS4
ATOM  36056  C   ILE D   5     155.543  98.861  36.261  1.00 57.87      DS4
ATOM  36057  O   ILE D   5     156.261  98.391  35.385  1.00 57.87      DS4
ATOM  36058  N   GLY D   6     156.010  99.682  37.192  1.00 61.03      DS4
ATOM  36059  CA  GLY D   6     157.415 100.047  37.168  1.00 61.03      DS4
ATOM  36060  C   GLY D   6     157.644 101.536  37.316  1.00 61.03      DS4
ATOM  36061  O   GLY D   6     156.694 102.311  37.227  1.00 61.03      DS4
ATOM  36062  N   PRO D   7     158.899 101.972  37.518  1.00 58.62      DS4
ATOM  36063  CD  PRO D   7     160.112 101.213  37.184  1.00107.30      DS4
ATOM  36064  CA  PRO D   7     159.212 103.397  37.681  1.00 58.62      DS4
ATOM  36065  CB  PRO D   7     160.683 103.484  37.272  1.00107.30      DS4
ATOM  36066  CG  PRO D   7     160.904 102.242  36.446  1.00107.30      DS4
ATOM  36067  C   PRO D   7     158.299 104.279  36.848  1.00 58.62      DS4
ATOM  36068  O   PRO D   7     158.158 104.081  35.643  1.00 58.62      DS4
ATOM  36069  N   VAL D   8     157.668 105.256  37.487  1.00 46.14      DS4
ATOM  36070  CA  VAL D   8     156.749 106.102  36.756  1.00 46.14      DS4
ATOM  36071  CB  VAL D   8     155.347 105.964  37.335  1.00 27.47      DS4
ATOM  36072  CG1 VAL D   8     154.375 106.819  36.560  1.00 27.47      DS4
ATOM  36073  CG2 VAL D   8     154.915 104.512  37.233  1.00 27.47      DS4
ATOM  36074  C   VAL D   8     157.110 107.572  36.606  1.00 46.14      DS4
ATOM  36075  O   VAL D   8     156.917 108.138  35.531  1.00 46.14      DS4
ATOM  36076  N   CYS D   9     157.624 108.213  37.649  1.00 94.75      DS4
ATOM  36077  CA  CYS D   9     157.980 109.617  37.478  1.00 94.75      DS4
ATOM  36078  CB  CYS D   9     158.421 110.253  38.825  1.00 51.72      DS4
ATOM  36079  SG  CYS D   9     157.040 110.807  39.923  1.00 51.72      DS4
ATOM  36080  C   CYS D   9     159.078 109.679  36.390  1.00 94.75      DS4
ATOM  36081  O   CYS D   9     159.457 110.754  35.926  1.00 94.75      DS4
ATOM  36082  N   ARG D  10     159.554 108.510  35.959  1.00 74.37      DS4
ATOM  36083  CA  ARG D  10     160.574 108.431  34.908  1.00 74.37      DS4
ATOM  36084  CB  ARG D  10     161.224 107.044  34.884  1.00 54.41      DS4
ATOM  36085  CG  ARG D  10     160.507 106.048  33.998  1.00 54.41      DS4
ATOM  36086  CD  ARG D  10     160.952 104.626  34.263  1.00 54.41      DS4
ATOM  36087  NE  ARG D  10     162.406 104.472  34.272  1.00 54.41      DS4
ATOM  36088  CZ  ARG D  10     163.195 104.674  33.218  1.00 54.41      DS4
ATOM  36089  NH1 ARG D  10     162.671 105.044  32.052  1.00 54.41      DS4
ATOM  36090  NH2 ARG D  10     164.509 104.499  33.326  1.00 54.41      DS4
ATOM  36091  C   ARG D  10     159.896 108.705  33.558  1.00 74.37      DS4
ATOM  36092  O   ARG D  10     160.530 109.156  32.606  1.00 74.37      DS4
ATOM  36093  N   LEU D  11     158.604 108.402  33.481  1.00 56.98      DS4
ATOM  36094  CA  LEU D  11     157.827 108.650  32.278  1.00 56.98      DS4
ATOM  36095  CB  LEU D  11     156.522 107.861  32.315  1.00 41.57      DS4
ATOM  36096  CG  LEU D  11     156.685 106.398  32.743  1.00 41.57      DS4
ATOM  36097  CD1 LEU D  11     155.356 105.662  32.690  1.00 41.57      DS4
ATOM  36098  CD2 LEU D  11     157.675 105.734  31.825  1.00 41.57      DS4
ATOM  36099  C   LEU D  11     157.551 110.138  32.348  1.00 56.98      DS4
ATOM  36100  O   LEU D  11     157.666 110.837  31.344  1.00 56.98      DS4
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ATOM  36101  N   CYS D  12     157.183 110.604  33.549  1.00 37.63      DS4
ATOM  36102  CA  CYS D  12     156.931 112.027  33.819  1.00 37.63      DS4
ATOM  36103  CB  CYS D  12     156.922 112.328  35.356  1.00 58.99      DS4
ATOM  36104  SG  CYS D  12     155.389 112.262  36.448  1.00 58.99      DS4
ATOM  36105  C   CYS D  12     158.175 112.702  33.207  1.00 37.63      DS4
ATOM  36106  O   CYS D  12     158.081 113.611  32.377  1.00 37.63      DS4
ATOM  36107  N   ARG D  13     159.346 112.213  33.609  1.00 65.44      DS4
ATOM  36108  CA  ARG D  13     160.612 112.768  33.147  1.00 65.44      DS4
ATOM  36109  CB  ARG D  13     161.776 112.155  33.933  1.00 55.93      DS4
ATOM  36110  CG  ARG D  13     161.863 112.651  35.374  1.00 55.93      DS4
ATOM  36111  CD  ARG D  13     163.313 112.820  35.814  1.00 55.93      DS4
ATOM  36112  NE  ARG D  13     163.942 111.558  36.179  1.00 55.93      DS4
ATOM  36113  CZ  ARG D  13     165.245 111.328  36.075  1.00 55.93      DS4
ATOM  36114  NH1 ARG D  13     166.040 112.275  35.610  1.00 55.93      DS4
ATOM  36115  NH2 ARG D  13     165.754 110.160  36.446  1.00 55.93      DS4
ATOM  36116  C   ARG D  13     160.919 112.698  31.652  1.00 65.44      DS4
ATOM  36117  O   ARG D  13     161.369 113.689  31.081  1.00 65.44      DS4
ATOM  36118  N   ARG D  14     160.696 111.546  31.019  1.00 61.36      DS4
ATOM  36119  CA  ARG D  14     160.971 111.410  29.586  1.00 61.36      DS4
ATOM  36120  CB  ARG D  14     160.792 109.959  29.119  1.00 47.74      DS4
ATOM  36121  CG  ARG D  14     160.786 109.779  27.584  1.00 47.74      DS4
ATOM  36122  CD  ARG D  14     162.101 110.226  26.943  1.00 47.74      DS4
ATOM  36123  NE  ARG D  14     163.196 109.304  27.246  1.00 47.74      DS4
ATOM  36124  CZ  ARG D  14     164.475 109.536  26.971  1.00 47.74      DS4
ATOM  36125  NH1 ARG D  14     164.835 110.672  26.384  1.00 47.74      DS4
ATOM  36126  NH2 ARG D  14     165.391 108.622  27.270  1.00 47.74      DS4
ATOM  36127  C   ARG D  14     160.055 112.305  28.774  1.00 61.36      DS4
ATOM  36128  O   ARG D  14     160.468 112.887  27.772  1.00 61.36      DS4
ATOM  36129  N   GLU D  15     158.804 112.405  29.200  1.00 43.05      DS4
ATOM  36130  CA  GLU D  15     157.853 113.241  28.492  1.00 43.05      DS4
ATOM  36131  CB  GLU D  15     156.425 112.814  28.838  1.00 76.24      DS4
ATOM  36132  CG  GLU D  15     155.683 112.136  27.680  1.00 76.24      DS4
ATOM  36133  CD  GLU D  15     156.498 111.045  26.989  1.00 76.24      DS4
ATOM  36134  OE1 GLU D  15     156.811 110.018  27.630  1.00 76.24      DS4
ATOM  36135  OE2 GLU D  15     156.823 111.223  25.795  1.00 76.24      DS4
ATOM  36136  C   GLU D  15     158.097 114.705  28.847  1.00 43.05      DS4
ATOM  36137  O   GLU D  15     157.401 115.596  28.372  1.00 43.05      DS4
ATOM  36138  N   GLY D  16     159.099 114.940  29.687  1.00 69.34      DS4
ATOM  36139  CA  GLY D  16     159.449 116.293  30.078  1.00 69.34      DS4
ATOM  36140  C   GLY D  16     158.320 117.115  30.661  1.00 69.34      DS4
ATOM  36141  O   GLY D  16     158.444 118.332  30.795  1.00 69.34      DS4
ATOM  36142  N   VAL D  17     157.222 116.457  31.017  1.00 73.85      DS4
ATOM  36143  CA  VAL D  17     156.067 117.138  31.593  1.00 73.85      DS4
ATOM  36144  CB  VAL D  17     154.902 117.230  30.591  1.00 55.93      DS4
ATOM  36145  CG1 VAL D  17     153.709 117.885  31.237  1.00 55.93      DS4
ATOM  36146  CG2 VAL D  17     155.329 118.026  29.376  1.00 55.93      DS4
ATOM  36147  C   VAL D  17     155.564 116.408  32.824  1.00 73.85      DS4
ATOM  36148  O   VAL D  17     155.773 115.206  32.993  1.00 73.85      DS4
ATOM  36149  N   LYS D  18     154.889 117.155  33.683  1.00 70.92      DS4
ATOM  36150  CA  LYS D  18     154.337 116.615  34.910  1.00 70.92      DS4
ATOM  36151  CB  LYS D  18     153.935 117.777  35.825  1.00115.73      DS4
ATOM  36152  CG  LYS D  18     154.084 117.528  37.320  1.00115.73      DS4
ATOM  36153  CD  LYS D  18     153.689 118.784  38.085  1.00115.73      DS4
ATOM  36154  CE  LYS D  18     153.795 118.602  39.582  1.00115.73      DS4
ATOM  36155  NZ  LYS D  18     153.273 119.804  40.290  1.00115.73      DS4
ATOM  36156  C   LYS D  18     153.121 115.735  34.592  1.00 70.92      DS4
ATOM  36157  O   LYS D  18     152.028 116.231  34.293  1.00 70.92      DS4
ATOM  36158  N   LEU D  19     153.329 114.425  34.622  1.00150.02      DS4
ATOM  36159  CA  LEU D  19     152.247 113.487  34.380  1.00150.02      DS4
ATOM  36160  CB  LEU D  19     152.742 112.267  33.613  1.00 77.98      DS4
ATOM  36161  CG  LEU D  19     152.996 112.478  32.125  1.00 77.98      DS4
ATOM  36162  CD1 LEU D  19     153.543 111.205  31.502  1.00 77.98      DS4
ATOM  36163  CD2 LEU D  19     151.698 112.880  31.462  1.00 77.98      DS4
ATOM  36164  C   LEU D  19     151.781 113.067  35.753  1.00150.02      DS4
ATOM  36165  O   LEU D  19     152.603 112.850  36.651  1.00150.02      DS4
ATOM  36166  N   TYR D  20     150.472 112.960  35.937  1.00 66.98      DS4
ATOM  36167  CA  TYR D  20     149.987 112.567  37.246  1.00 66.98      DS4
ATOM  36168  CB  TYR D  20     148.816 113.451  37.671  1.00 86.56      DS4
ATOM  36169  CG  TYR D  20     149.215 114.901  37.881  1.00 86.56      DS4
ATOM  36170  CD1 TYR D  20     149.194 115.811  36.823  1.00 86.56      DS4
ATOM  36171  CE1 TYR D  20     149.578 117.142  37.002  1.00 86.56      DS4
ATOM  36172  CD2 TYR D  20     149.634 115.359  39.133  1.00 86.56      DS4
ATOM  36173  CE2 TYR D  20     150.020 116.689  39.322  1.00 86.56      DS4
ATOM  36174  CZ  TYR D  20     149.989 117.572  38.250  1.00 86.56      DS4
ATOM  36175  OH  TYR D  20     150.370 118.883  38.418  1.00 86.56      DS4
ATOM  36176  C   TYR D  20     149.623 111.092  37.286  1.00 66.98      DS4
ATOM  36177  O   TYR D  20     148.505 110.692  36.952  1.00 66.98      DS4
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ATOM  36178  N   LEU D  21     150.600 110.288  37.696  1.00 55.45      DS4
ATOM  36179  CA  LEU D  21     150.449 108.847  37.781  1.00 55.45      DS4
ATOM  36180  CB  LEU D  21     151.441 108.171  36.834  1.00 58.94      DS4
ATOM  36181  CG  LEU D  21     151.274 108.461  35.335  1.00 58.94      DS4
ATOM  36182  CD1 LEU D  21     152.622 108.755  34.711  1.00 58.94      DS4
ATOM  36183  CD2 LEU D  21     150.601 107.273  34.644  1.00 58.94      DS4
ATOM  36184  C   LEU D  21     150.720 108.409  39.206  1.00 55.45      DS4
ATOM  36185  O   LEU D  21     151.307 107.346  39.436  1.00 55.45      DS4
ATOM  36186  N   LYS D  22     150.293 109.239  40.157  1.00 81.19      DS4
ATOM  36187  CA  LYS D  22     150.484 108.961  41.576  1.00 81.19      DS4
ATOM  36188  CB  LYS D  22     151.937 109.222  41.977  1.00 69.95      DS4
ATOM  36189  CG  LYS D  22     152.757 107.961  42.197  1.00 69.95      DS4
ATOM  36190  CD  LYS D  22     154.176 108.275  42.679  1.00 69.95      DS4
ATOM  36191  CE  LYS D  22     154.946 106.995  43.026  1.00 69.95      DS4
ATOM  36192  NZ  LYS D  22     156.321 107.243  43.549  1.00 69.95      DS4
ATOM  36193  C   LYS D  22     149.574 109.795  42.465  1.00 81.19      DS4
ATOM  36194  O   LYS D  22     149.548 109.608  43.682  1.00 81.19      DS4
ATOM  36195  N   GLY D  23     148.827 110.714  41.865  1.00159.09      DS4
ATOM  36196  CA  GLY D  23     147.953 111.554  42.662  1.00159.09      DS4
ATOM  36197  C   GLY D  23     148.793 112.353  43.640  1.00159.09      DS4
ATOM  36198  O   GLY D  23     149.591 113.189  43.218  1.00159.09      DS4
ATOM  36199  N   GLU D  24     148.637 112.102  44.939  1.00 94.23      DS4
ATOM  36200  CA  GLU D  24     149.425 112.827  45.925  1.00 94.23      DS4
ATOM  36201  CB  GLU D  24     149.170 112.311  47.337  1.00152.77      DS4
ATOM  36202  CG  GLU D  24     149.937 113.098  48.385  1.00152.77      DS4
ATOM  36203  CD  GLU D  24     149.700 112.600  49.793  1.00152.77      DS4
ATOM  36204  OE1 GLU D  24     148.526 112.568  50.219  1.00152.77      DS4
ATOM  36205  OE2 GLU D  24     150.688 112.248  50.477  1.00152.77      DS4
ATOM  36206  C   GLU D  24     150.882 112.609  45.560  1.00 94.23      DS4
ATOM  36207  O   GLU D  24     151.195 111.704  44.793  1.00 94.23      DS4
ATOM  36208  N   ARG D  25     151.767 113.435  46.108  1.00 64.87      DS4
ATOM  36209  CA  ARG D  25     153.204 113.362  45.828  1.00 64.87      DS4
ATOM  36210  CB  ARG D  25     153.724 111.923  45.822  1.00 46.63      DS4
ATOM  36211  CG  ARG D  25     155.249 111.837  45.701  1.00 46.63      DS4
ATOM  36212  CD  ARG D  25     155.733 110.415  45.915  1.00 46.63      DS4
ATOM  36213  NE  ARG D  25     156.960 110.360  46.705  1.00 46.63      DS4
ATOM  36214  CZ  ARG D  25     158.151 110.778  46.285  1.00 46.63      DS4
ATOM  36215  NH1 ARG D  25     158.287 111.287  45.067  1.00 46.63      DS4
ATOM  36216  NH2 ARG D  25     159.209 110.681  47.082  1.00 46.63      DS4
ATOM  36217  C   ARG D  25     153.512 113.993  44.488  1.00 64.87      DS4
ATOM  36218  O   ARG D  25     154.430 114.800  44.383  1.00 64.87      DS4
ATOM  36219  N   CYS D  26     152.759 113.613  43.459  1.00116.65      DS4
ATOM  36220  CA  CYS D  26     152.970 114.181  42.135  1.00116.65      DS4
ATOM  36221  CB  CYS D  26     152.279 113.302  41.047  1.00 42.29      DS4
ATOM  36222  SG  CYS D  26     153.250 112.962  39.478  1.00 42.29      DS4
ATOM  36223  C   CYS D  26     152.380 115.610  42.246  1.00116.65      DS4
ATOM  36224  O   CYS D  26     152.204 116.314  41.256  1.00116.65      DS4
ATOM  36225  N   TYR D  27     152.088 116.022  43.482  1.00 88.54      DS4
ATOM  36226  CA  TYR D  27     151.566 117.364  43.784  1.00 88.54      DS4
ATOM  36227  CB  TYR D  27     150.181 117.306  44.442  1.00 58.39      DS4
ATOM  36228  CG  TYR D  27     149.027 117.159  43.476  1.00 58.39      DS4
ATOM  36229  CD1 TYR D  27     148.541 115.903  43.127  1.00 58.39      DS4
ATOM  36230  CE1 TYR D  27     147.513 115.762  42.204  1.00 58.39      DS4
ATOM  36231  CD2 TYR D  27     148.449 118.277  42.880  1.00 58.39      DS4
ATOM  36232  CE2 TYR D  27     147.423 118.151  41.957  1.00 58.39      DS4
ATOM  36233  CZ  TYR D  27     146.959 116.890  41.617  1.00 58.39      DS4
ATOM  36234  OH  TYR D  27     145.965 116.749  40.663  1.00 58.39      DS4
ATOM  36235  C   TYR D  27     152.513 118.091  44.742  1.00 88.54      DS4
ATOM  36236  O   TYR D  27     152.882 119.243  44.516  1.00 88.54      DS4
ATOM  36237  N   SER D  28     152.887 117.403  45.819  1.00 50.14      DS4
ATOM  36238  CA  SER D  28     153.785 117.936  46.838  1.00 50.14      DS4
ATOM  36239  CB  SER D  28     153.474 117.295  48.196  1.00152.80      DS4
ATOM  36240  OG  SER D  28     153.759 115.905  48.189  1.00152.80      DS4
ATOM  36241  C   SER D  28     155.275 117.741  46.524  1.00 50.14      DS4
ATOM  36242  O   SER D  28     155.770 116.613  46.473  1.00 50.14      DS4
ATOM  36243  N   PRO D  29     156.010 118.857  46.380  1.00 65.87      DS4
ATOM  36244  CD  PRO D  29     155.501 120.106  46.981  1.00135.60      DS4
ATOM  36245  CA  PRO D  29     157.436 119.005  46.079  1.00 65.87      DS4
ATOM  36246  CB  PRO D  29     157.886 119.997  47.135  1.00135.60      DS4
ATOM  36247  CG  PRO D  29     156.757 120.971  47.099  1.00135.60      DS4
ATOM  36248  C   PRO D  29     158.319 117.761  46.035  1.00 65.87      DS4
ATOM  36249  O   PRO D  29     159.266 117.641  46.808  1.00 65.87      DS4
ATOM  36250  N   LYS D  30     158.025 116.857  45.103  1.00154.80      DS4
ATOM  36251  CA  LYS D  30     158.808 115.634  44.951  1.00154.80      DS4
ATOM  36252  CB  LYS D  30     158.561 114.695  46.138  1.00 60.94      DS4
ATOM  36253  CG  LYS D  30     159.429 114.984  47.348  1.00 60.94      DS4
ATOM  36254  CD  LYS D  30     159.260 113.951  48.473  1.00 60.94      DS4
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ATOM  36255  CE  LYS D  30     157.898 114.049  49.157  1.00 60.94      DS4
ATOM  36256  NZ  LYS D  30     157.872 113.331  50.462  1.00 60.94      DS4
ATOM  36257  C   LYS D  30     158.568 114.862  43.653  1.00154.80      DS4
ATOM  36258  O   LYS D  30     159.247 113.865  43.404  1.00154.80      DS4
ATOM  36259  N   CYS D  31     157.632 115.319  42.821  1.00107.42      DS4
ATOM  36260  CA  CYS D  31     157.320 114.604  41.579  1.00107.42      DS4
ATOM  36261  CB  CYS D  31     156.247 115.320  40.768  1.00 32.16      DS4
ATOM  36262  SG  CYS D  31     155.669 114.323  39.380  1.00 32.16      DS4
ATOM  36263  C   CYS D  31     158.509 114.393  40.672  1.00107.42      DS4
ATOM  36264  O   CYS D  31     158.372 113.779  39.604  1.00107.42      DS4
ATOM  36265  N   ALA D  32     159.666 114.887  41.114  1.00 95.86      DS4
ATOM  36266  CA  ALA D  32     160.921 114.812  40.365  1.00 95.86      DS4
ATOM  36267  CB  ALA D  32     161.126 113.427  39.759  1.00 44.88      DS4
ATOM  36268  C   ALA D  32     160.840 115.868  39.275  1.00 95.86      DS4
ATOM  36269  O   ALA D  32     161.785 116.629  39.063  1.00 95.86      DS4
ATOM  36270  N   MET D  33     159.703 115.915  38.584  1.00 70.06      DS4
ATOM  36271  CA  MET D  33     159.504 116.929  37.564  1.00 70.06      DS4
ATOM  36272  CB  MET D  33     158.076 116.899  36.997  1.00 71.98      DS4
ATOM  36273  CG  MET D  33     157.844 115.879  35.880  1.00 71.98      DS4
ATOM  36274  SD  MET D  33     159.086 115.960  34.562  1.00 71.98      DS4
ATOM  36275  CE  MET D  33     158.631 117.475  33.764  1.00 71.98      DS4
ATOM  36276  C   MET D  33     159.699 118.162  38.408  1.00 70.06      DS4
ATOM  36277  O   MET D  33     160.131 119.212  37.934  1.00 70.06      DS4
ATOM  36278  N   GLU D  34     159.368 118.003  39.685  1.00123.81      DS4
ATOM  36279  CA  GLU D  34     159.529 119.061  40.658  1.00123.81      DS4
ATOM  36280  CB  GLU D  34     158.712 118.758  41.913  1.00136.09      DS4
ATOM  36281  CG  GLU D  34     158.499 119.968  42.795  1.00136.09      DS4
ATOM  36282  CD  GLU D  34     157.920 121.134  42.022  1.00136.09      DS4
ATOM  36283  OE1 GLU D  34     156.834 120.976  41.426  1.00136.09      DS4
ATOM  36284  OE2 GLU D  34     158.555 122.208  42.006  1.00136.09      DS4
ATOM  36285  C   GLU D  34     161.017 119.031  40.967  1.00123.81      DS4
ATOM  36286  O   GLU D  34     161.472 118.323  41.868  1.00123.81      DS4
ATOM  36287  N   ARG D  35     161.773 119.780  40.176  1.00 74.01      DS4
ATOM  36288  CA  ARG D  35     163.216 119.861  40.324  1.00 74.01      DS4
ATOM  36289  CB  ARG D  35     163.556 120.414  41.708  1.00200.96      DS4
ATOM  36290  CG  ARG D  35     163.047 121.841  41.862  1.00200.96      DS4
ATOM  36291  CD  ARG D  35     163.313 122.436  43.223  1.00200.96      DS4
ATOM  36292  NE  ARG D  35     162.815 123.807  43.285  1.00200.96      DS4
ATOM  36293  CZ  ARG D  35     162.883 124.582  44.361  1.00200.96      DS4
ATOM  36294  NH1 ARG D  35     163.431 124.124  45.478  1.00200.96      DS4
ATOM  36295  NH2 ARG D  35     162.403 125.818  44.319  1.00200.96      DS4
ATOM  36296  C   ARG D  35     163.931 118.537  40.042  1.00 74.01      DS4
ATOM  36297  O   ARG D  35     164.016 117.648  40.898  1.00 74.01      DS4
ATOM  36298  N   ARG D  36     164.423 118.468  38.798  1.00112.43      DS4
ATOM  36299  CA  ARG D  36     165.157 117.365  38.162  1.00112.43      DS4
ATOM  36300  CB  ARG D  36     165.368 116.205  39.125  1.00 46.16      DS4
ATOM  36301  CG  ARG D  36     166.364 115.213  38.616  1.00 46.16      DS4
ATOM  36302  CD  ARG D  36     166.327 113.945  39.414  1.00 46.16      DS4
ATOM  36303  NE  ARG D  36     167.485 113.141  39.071  1.00 46.16      DS4
ATOM  36304  CZ  ARG D  36     167.555 111.822  39.186  1.00 46.16      DS4
ATOM  36305  NH1 ARG D  36     166.521 111.121  39.644  1.00 46.16      DS4
ATOM  36306  NH2 ARG D  36     168.672 111.207  38.824  1.00 46.16      DS4
ATOM  36307  C   ARG D  36     164.372 116.865  36.937  1.00112.43      DS4
ATOM  36308  O   ARG D  36     164.236 115.664  36.725  1.00112.43      DS4
ATOM  36309  N   PRO D  37     163.867 117.793  36.106  1.00 74.14      DS4
ATOM  36310  CD  PRO D  37     164.017 119.241  36.299  1.00 65.63      DS4
ATOM  36311  CA  PRO D  37     163.080 117.541  34.894  1.00 74.14      DS4
ATOM  36312  CB  PRO D  37     162.517 118.924  34.551  1.00 65.63      DS4
ATOM  36313  CG  PRO D  37     162.705 119.731  35.812  1.00 65.63      DS4
ATOM  36314  C   PRO D  37     163.791 116.924  33.684  1.00 74.14      DS4
ATOM  36315  O   PRO D  37     163.195 116.788  32.610  1.00 74.14      DS4
ATOM  36316  N   TYR D  38     165.057 116.564  33.829  1.00 89.72      DS4
ATOM  36317  CA  TYR D  38     165.747 115.968  32.702  1.00 89.72      DS4
ATOM  36318  CB  TYR D  38     167.250 116.219  32.802  1.00 79.16      DS4
ATOM  36319  CG  TYR D  38     167.861 115.937  34.152  1.00 79.16      DS4
ATOM  36320  CD1 TYR D  38     168.207 114.644  34.527  1.00 79.16      DS4
ATOM  36321  CE1 TYR D  38     168.807 114.390  35.751  1.00 79.16      DS4
ATOM  36322  CD2 TYR D  38     168.124 116.973  35.042  1.00 79.16      DS4
ATOM  36323  CE2 TYR D  38     168.721 116.730  36.269  1.00 79.16      DS4
ATOM  36324  CZ  TYR D  38     169.064 115.435  36.619  1.00 79.16      DS4
ATOM  36325  OH  TYR D  38     169.667 115.191  37.835  1.00 79.16      DS4
ATOM  36326  C   TYR D  38     165.439 114.481  32.636  1.00 89.72      DS4
ATOM  36327  O   TYR D  38     165.378 113.801  33.660  1.00 89.72      DS4
ATOM  36328  N   PRO D  39     165.219 113.959  31.422  1.00 63.17      DS4
ATOM  36329  CD  PRO D  39     165.295 114.646  30.124  1.00 84.97      DS4
ATOM  36330  CA  PRO D  39     164.909 112.536  31.244  1.00 63.17      DS4
ATOM  36331  CB  PRO D  39     164.918 112.358  29.720  1.00 84.97      DS4
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ATOM  36332  CG  PRO D  39     165.723 113.527  29.221  1.00 84.97      DS4
ATOM  36333  C.  PRO D  39     165.847 111.581  31.966  1.00 63.17      DS4
ATOM  36334  O   PRO D  39     166.980 111.921  32.287  1.00 63.17      DS4
ATOM  36335  N   PRO D  40     165.368 110.362  32.232  1.00 56.40      DS4
ATOM  36336  CD  PRO D  40     164.030 109.882  31.844  1.00 63.93      DS4
ATOM  36337  CA  PRO D  40     166.110 109.308  32.921  1.00 56.40      DS4
ATOM  36338  CB  PRO D  40     165.045 108.235  33.142  1.00 63.93      DS4
ATOM  36339  CG  PRO D  40     164.182 108.378  31.938  1.00 63.93      DS4
ATOM  36340  C   PRO D  40     167.294 108.770  32.147  1.00 56.40      DS4
ATOM  36341  O   PRO D  40     167.318 108.822  30.923  1.00 56.40      DS4
ATOM  36342  N   GLY D  41     168.279 108.246  32.865  1.00 64.98      DS4
ATOM  36343  CA  GLY D  41     169.431 107.676  32.197  1.00 64.98      DS4
ATOM  36344  C   GLY D  41     170.687 108.517  32.117  1.00 64.98      DS4
ATOM  36345  O   GLY D  41     170.660 109.747  32.136  1.00 64.98      DS4
ATOM  36346  N   GLN D  42     171.802 107.809  32.014  1.00 70.54      DS4
ATOM  36347  CA  GLN D  42     173.127 108.393  31.920  1.00 70.54      DS4
ATOM  36348  CB  GLN D  42     174.124 107.278  31.565  1.00 76.44      DS4
ATOM  36349  CG  GLN D  42     175.373 107.709  30.819  1.00 76.44      DS4
ATOM  36350  CD  GLN D  42     176.338 106.560  30.606  1.00 76.44      DS4
ATOM  36351  OE1 GLN D  42     177.302 106.676  29.845  1.00 76.44      DS4
ATOM  36352  NE2 GLN D  42     176.089 105.443  31.287  1.00 76.44      DS4
ATOM  36353  C   GLN D  42     173.264 109.559  30.941  1.00 70.54      DS4
ATOM  36354  O   GLN D  42     174.297 110.218  30.919  1.00 70.54      DS4
ATOM  36355  N   HIS D  43     172.237 109.839  30.147  1.00 53.50      DS4
ATOM  36356  CA  HIS D  43     172.350 110.928  29.180  1.00 53.50      DS4
ATOM  36357  CB  HIS D  43     172.293 110.362  27.761  1.00 78.04      DS4
ATOM  36358  CG  HIS D  43     173.366 109.361  27.464  1.00 78.04      DS4
ATOM  36359  CD2 HIS D  43     173.308 108.020  27.278  1.00 78.04      DS4
ATOM  36360  ND1 HIS D  43     174.693 109.709  27.325  1.00 78.04      DS4
ATOM  36361  CE1 HIS D  43     175.406 108.627  27.065  1.00 78.04      DS4
ATOM  36362  NE2 HIS D  43     174.590 107.589  27.031  1.00 78.04      DS4
ATOM  36363  C   HIS D  43     171.300 112.018  29.329  1.00 53.50      DS4
ATOM  36364  O   HIS D  43     171.313 113.007  28.593  1.00 53.50      DS4
ATOM  36365  N   GLY D  44     170.405 111.841  30.292  1.00 82.12      DS4
ATOM  36366  CA  GLY D  44     169.335 112.798  30.518  1.00 82.12      DS4
ATOM  36367  C   GLY D  44     169.643 114.286  30.580  1.00 82.12      DS4
ATOM  36368  O   GLY D  44     168.765 115.101  30.302  1.00 82.12      DS4
ATOM  36369  N   GLN D  45     170.865 114.663  30.936  1.00 84.95      DS4
ATOM  36370  CA  GLN D  45     171.183 116.082  31.034  1.00 84.95      DS4
ATOM  36371  CB  GLN D  45     171.965 116.366  32.318  1.00 89.90      DS4
ATOM  36372  CG  GLN D  45     171.192 116.052  33.591  1.00 89.90      DS4
ATOM  36373  CD  GLN D  45     171.972 116.377  34.849  1.00 89.90      DS4
ATOM  36374  OE1 GLN D  45     172.344 117.530  35.081  1.00 89.90      DS4
ATOM  36375  NE2 GLN D  45     172.224 115.359  35.674  1.00 89.90      DS4
ATOM  36376  C   GLN D  45     171.945 116.641  29.849  1.00 84.95      DS4
ATOM  36377  O   GLN D  45     171.999 117.856  29.672  1.00 84.95      DS4
ATOM  36378  N   LYS D  46     172.536 115.769  29.037  1.00 97.53      DS4
ATOM  36379  CA  LYS D  46     173.285 116.232  27.874  1.00 97.53      DS4
ATOM  36380  CB  LYS D  46     173.884 115.054  27.104  1.00 72.00      DS4
ATOM  36381  CG  LYS D  46     175.029 114.332  27.810  1.00 72.00      DS4
ATOM  36382  CD  LYS D  46     175.699 113.328  26.862  1.00 72.00      DS4
ATOM  36383  CE  LYS D  46     176.866 112.583  27.502  1.00 72.00      DS4
ATOM  36384  NZ  LYS D  46     176.431 111.581  28.510  1.00 72.00      DS4
ATOM  36385  C   LYS D  46     172.393 117.040  26.938  1.00 97.53      DS4
ATOM  36386  O   LYS D  46     171.169 116.893  26.950  1.00 97.53      DS4
ATOM  36387  N   ARG D  47     173.016 117.898  26.132  1.00147.00      DS4
ATOM  36388  CA  ARG D  47     172.293 118.736  25.181  1.00147.00      DS4
ATOM  36389  CB  ARG D  47     173.270 119.533  24.314  1.00200.96      DS4
ATOM  36390  CG  ARG D  47     172.598 120.282  23.171  1.00200.96      DS4
ATOM  36391  CD  ARG D  47     173.603 120.732  22.120  1.00200.96      DS4
ATOM  36392  NE  ARG D  47     172.942 121.277  20.935  1.00200.96      DS4
ATOM  36393  CZ  ARG D  47     173.573 121.640  19.822  1.00200.96      DS4
ATOM  36394  NH1 ARG D  47     174.891 121.519  19.734  1.00200.96      DS4
ATOM  36395  NH2 ARG D  47     172.887 122.124  18.794  1.00200.96      DS4
ATOM  36396  C   ARG D  47     171.428 117.872  24.281  1.00147.00      DS4
ATOM  36397  O   ARG D  47     171.910 116.915  23.679  1.00147.00      DS4
ATOM  36398  N   ALA D  48     170.151 118.214  24.187  1.00 66.36      DS4
ATOM  36399  CA  ALA D  48     169.228 117.457  23.352  1.00 66.36      DS4
ATOM  36400  CB  ALA D  48     167.806 117.704  23.806  1.00 47.33      DS4
ATOM  36401  C   ALA D  48     169.377 117.832  21.878  1.00 66.36      DS4
ATOM  36402  O   ALA D  48     170.021 118.829  21.543  1.00 66.36      DS4
ATOM  36403  N   ARG D  49     168.782 117.031  21.001  1.00 75.88      DS4
ATOM  36404  CA  ARG D  49     168.852 117.298  19.571  1.00 75.88      DS4
ATOM  36405  CB  ARG D  49     169.549 116.147  18.843  1.00200.90      DS4
ATOM  36406  CG  ARG D  49     171.017 115.979  19.198  1.00200.90      DS4
ATOM  36407  CD  ARG D  49     171.685 114.962  18.284  1.00200.90      DS4
ATOM  36408  NE  ARG D  49     173.110 114.813  18.566  1.00200.90      DS4
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ATOM  36409  CZ  ARG D  49     173.941 114.061  17.851  1.00200.90      DS4
ATOM  36410  NH1 ARG D  49     173.492 113.383  16.803  1.00200.90      DS4
ATOM  36411  NH2 ARG D  49     175.224 113.986  18.182  1.00200.90      DS4
ATOM  36412  C   ARG D  49     167.465 117.509  18.975  1.00 75.88      DS4
ATOM  36413  O   ARG D  49     166.468 117.016  19.510  1.00 75.88      DS4
ATOM  36414  N   ARG D  50     167.415 118.249  17.868  1.00 69.36      DS4
ATOM  36415  CA  ARG D  50     166.161 118.526  17.177  1.00 69.36      DS4
ATOM  36416  CB  ARG D  50     166.428 119.268  15.864  1.00172.49      DS4
ATOM  36417  CG  ARG D  50     165.250 120.087  15.346  1.00172.49      DS4
ATOM  36418  CD  ARG D  50     164.113 119.223  14.820  1.00172.49      DS4
ATOM  36419  NE  ARG D  50     164.513 118.435  13.655  1.00172.49      DS4
ATOM  36420  CZ  ARG D  50     163.663 117.817  12.838  1.00172.49      DS4
ATOM  36421  NH1 ARG D  50     162.355 117.894  13.050  1.00172.49      DS4
ATOM  36422  NH2 ARG D  50     164.122 117.118  11.806  1.00172.49      DS4
ATOM  36423  C   ARG D  50     165.482 117.188  16.903  1.00 69.36      DS4
ATOM  36424  O   ARG D  50     166.052 116.303  16.259  1.00 69.36      DS4
ATOM  36425  N   PRO D  51     164.262 117.008  17.425  1.00 48.66      DS4
ATOM  36426  CD  PRO D  51     163.680 117.733  18.566  1.00 62.82      DS4
ATOM  36427  CA  PRO D  51     163.547 115.750  17.207  1.00 48.66      DS4
ATOM  36428  CB  PRO D  51     162.485 115.768  18.302  1.00 62.82      DS4
ATOM  36429  CG  PRO D  51     163.129 116.602  19.383  1.00 62.82      DS4
ATOM  36430  C   PRO D  51     162.941 115.653  15.823  1.00 48.66      DS4
ATOM  36431  O   PRO D  51     162.534 116.649  15.239  1.00 48.66      DS4
ATOM  36432  N   SER D  52     162.892 114.440  15.299  1.00 51.77      DS4
ATOM  36433  CA  SER D  52     162.313 114.225  13.989  1.00 51.77      DS4
ATOM  36434  CB  SER D  52     162.619 112.814  13.502  1.00 57.14      DS4
ATOM  36435  OG  SER D  52     162.092 111.849  14.396  1.00 57.14      DS4
ATOM  36436  C   SER D  52     160.811 114.392  14.123  1.00 51.77      DS4
ATOM  36437  O   SER D  52     160.226 114.049  15.157  1.00 51.77      DS4
ATOM  36438  N   ASP D  53     160.186 114.930  13.085  1.00 66.38      DS4
ATOM  36439  CA  ASP D  53     158.747 115.103  13.112  1.00 66.38      DS4
ATOM  36440  CB  ASP D  53     158.217 115.308  11.692  1.00 90.89      DS4
ATOM  36441  CG  ASP D  53     158.353 116.741  11.223  1.00 90.89      DS4
ATOM  36442  OD1 ASP D  53     159.301 117.427  11.662  1.00 90.89      DS4
ATOM  36443  OD2 ASP D  53     157.514 117.178  10.409  1.00 90.89      DS4
ATOM  36444  C   ASP D  53     158.183 113.829  13.721  1.00 66.38      DS4
ATOM  36445  O   ASP D  53     157.217 113.859  14.480  1.00 66.38      DS4
ATOM  36446  N   TYR D  54     158.819 112.709  13.402  1.00 40.73      DS4
ATOM  36447  CA  TYR D  54     158.384 111.433  13.932  1.00 40.73      DS4
ATOM  36448  CB  TYR D  54     159.290 110.311  13.432  1.00 43.82      DS4
ATOM  36449  CG  TYR D  54     158.901 108.941  13.947  1.00 43.82      DS4
ATOM  36450  CD1 TYR D  54     157.680 108.372  13.610  1.00 43.82      DS4
ATOM  36451  CE1 TYR D  54     157.328 107.116  14.069  1.00 43.82      DS4
ATOM  36452  CD2 TYR D  54     159.759 108.213  14.763  1.00 43.82      DS4
ATOM  36453  CE2 TYR D  54     159.412 106.955  15.231  1.00 43.82      DS4
ATOM  36454  CZ  TYR D  54     158.198 106.416  14.877  1.00 43.82      DS4
ATOM  36455  OH  TYR D  54     157.852 105.170  15.327  1.00 43.82      DS4
ATOM  36456  C   TYR D  54     158.417 111.480  15.456  1.00 40.73      DS4
ATOM  36457  O   TYR D  54     157.377 111.389  16.104  1.00 40.73      DS4
ATOM  36458  N   ALA D  55     159.613 111.624  16.018  1.00 27.28      DS4
ATOM  36459  CA  ALA D  55     159.793 111.692  17.462  1.00 27.28      DS4
ATOM  36460  CB  ALA D  55     161.125 112.313  17.782  1.00 14.84      DS4
ATOM  36461  C   ALA D  55     158.686 112.527  18.078  1.00 27.28      DS4
ATOM  36462  O   ALA D  55     157.987 112.096  19.004  1.00 27.28      DS4
ATOM  36463  N   VAL D  56     158.532 113.737  17.558  1.00 38.42      DS4
ATOM  36464  CA  VAL D  56     157.499 114.615  18.059  1.00 38.42      DS4
ATOM  36465  CB  VAL D  56     157.353 115.839  17.165  1.00 57.66      DS4
ATOM  36466  CG1 VAL D  56     156.149 116.657  17.587  1.00 57.66      DS4
ATOM  36467  CG2 VAL D  56     158.610 116.667  17.264  1.00 57.66      DS4
ATOM  36468  C   VAL D  56     156.189 113.850  18.126  1.00 38.42      DS4
ATOM  36469  O   VAL D  56     155.617 113.690  19.201  1.00 38.42      DS4
ATOM  36470  N   ARG D  57     155.729 113.358  16.980  1.00 42.47      DS4
ATOM  36471  CA  ARG D  57     154.485 112.598  16.926  1.00 42.47      DS4
ATOM  36472  CB  ARG D  57     154.219 112.142  15.495  1.00 69.44      DS4
ATOM  36473  CG  ARG D  57     153.824 113.264  14.550  1.00 69.44      DS4
ATOM  36474  CD  ARG D  57     154.343 113.002  13.137  1.00 69.44      DS4
ATOM  36475  NE  ARG D  57     153.829 113.955  12.160  1.00 69.44      DS4
ATOM  36476  CZ  ARG D  57     153.848 115.276  12.316  1.00 69.44      DS4
ATOM  36477  NH1 ARG D  57     154.353 115.814  13.417  1.00 69.44      DS4
ATOM  36478  NH2 ARG D  57     153.367 116.067  11.367  1.00 69.44      DS4
ATOM  36479  C   ARG D  57     154.519 111.387  17.863  1.00 42.47      DS4
ATOM  36480  O   ARG D  57     153.555 111.106  18.572  1.00 42.47      DS4
ATOM  36481  N   LEU D  58     155.635 110.677  17.881  1.00 48.52      DS4
ATOM  36482  CA  LEU D  58     155.735 109.507  18.729  1.00 48.52      DS4
ATOM  36483  CB  LEU D  58     157.086 108.808  18.541  1.00 43.52      DS4
ATOM  36484  CG  LEU D  58     157.360 107.522  19.338  1.00 43.52      DS4
ATOM  36485  CD1 LEU D  58     157.960 107.860  20.672  1.00 43.52      DS4
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ATOM  36486  CD2 LEU D  58     156.075 106.725  19.511  1.00 43.52       DS4
ATOM  36487  C   LEU D  58     155.553 109.864  20.183  1.00 48.52       DS4
ATOM  36488  O   LEU D  58     154.688 109.310  20.858  1.00 48.52       DS4
ATOM  36489  N   ARG D  59     156.365 110.791  20.673  1.00 55.43       DS4
ATOM  36490  CA  ARG D  59     156.286 111.186  22.074  1.00 55.43       DS4
ATOM  36491  CB  ARG D  59     157.396 112.180  22.384  1.00 41.97       DS4
ATOM  36492  CG  ARG D  59     158.775 111.582  22.358  1.00 41.97       DS4
ATOM  36493  CD  ARG D  59     159.237 111.297  23.759  1.00 41.97       DS4
ATOM  36494  NE  ARG D  59     158.548 110.172  24.374  1.00 41.97       DS4
ATOM  36495  CZ  ARG D  59     158.828 108.897  24.119  1.00 41.97       DS4
ATOM  36496  NH1 ARG D  59     159.789 108.579  23.252  1.00 41.97       DS4
ATOM  36497  NH2 ARG D  59     158.162 107.933  24.748  1.00 41.97       DS4
ATOM  36498  C   ARG D  59     154.930 111.774  22.452  1.00 55.43       DS4
ATOM  36499  O   ARG D  59     154.457 111.599  23.579  1.00 55.43       DS4
ATOM  36500  N   GLU D  60     154.296 112.463  21.512  1.00 43.80       DS4
ATOM  36501  CA  GLU D  60     153.011 113.047  21.812  1.00 43.80       DS4
ATOM  36502  CB  GLU D  60     152.498 113.885  20.642  1.00 81.04       DS4
ATOM  36503  CG  GLU D  60     151.341 114.806  21.033  1.00 81.04       DS4
ATOM  36504  CD  GLU D  60     151.727 115.840  22.099  1.00 81.04       DS4
ATOM  36505  OE1 GLU D  60     152.351 115.457  23.111  1.00 81.04       DS4
ATOM  36506  OE2 GLU D  60     151.399 117.035  21.935  1.00 81.04       DS4
ATOM  36507  C   GLU D  60     152.041 111.925  22.130  1.00 43.80       DS4
ATOM  36508  O   GLU D  60     151.342 111.969  23.144  1.00 43.80       DS4
ATOM  36509  N   LYS D  61     152.011 110.904  21.282  1.00 52.47       DS4
ATOM  36510  CA  LYS D  61     151.114 109.776  21.507  1.00 52.47       DS4
ATOM  36511  CB  LYS D  61     151.264 108.733  20.408  1.00 45.77       DS4
ATOM  36512  CG  LYS D  61     150.189 107.662  20.495  1.00 45.77       DS4
ATOM  36513  CD  LYS D  61     150.711 106.303  20.085  1.00 45.77       DS4
ATOM  36514  CE  LYS D  61     151.717 105.787  21.071  1.00 45.77       DS4
ATOM  36515  NZ  LYS D  61     152.086 104.412  20.690  1.00 45.77       DS4
ATOM  36516  C   LYS D  61     151.395 109.102  22.845  1.00 52.47       DS4
ATOM  36517  O   LYS D  61     150.480 108.783  23.608  1.00 52.47       DS4
ATOM  36518  N   GLN D  62     152.671 108.869  23.113  1.00 48.16       DS4
ATOM  36519  CA  GLN D  62     153.066 108.241  24.352  1.00 48.16       DS4
ATOM  36520  CB  GLN D  62     154.583 108.088  24.381  1.00 41.97       DS4
ATOM  36521  CG  GLN D  62     155.109 107.167  23.283  1.00 41.97       DS4
ATOM  36522  CD  GLN D  62     154.903 105.684  23.586  1.00 41.97       DS4
ATOM  36523  OE1 GLN D  62     155.680 105.072  24.313  1.00 41.97       DS4
ATOM  36524  NE2 GLN D  62     153.850 105.107  23.031  1.00 41.97       DS4
ATOM  36525  C   GLN D  62     152.570 109.079  25.526  1.00 48.16       DS4
ATOM  36526  O   GLN D  62     151.925 108.566  26.442  1.00 48.16       DS4
ATOM  36527  N   LYS D  63     152.857 110.374  25.498  1.00 52.87       DS4
ATOM  36528  CA  LYS D  63     152.404 111.253  26.567  1.00 52.87       DS4
ATOM  36529  CB  LYS D  63     152.571 112.709  26.144  1.00 60.92       DS4
ATOM  36530  CG  LYS D  63     152.313 113.713  27.247  1.00 60.92       DS4
ATOM  36531  CD  LYS D  63     152.022 115.107  26.680  1.00 60.92       DS4
ATOM  36532  CE  LYS D  63     153.165 115.663  25.832  1.00 60.92       DS4
ATOM  36533  NZ  LYS D  63     152.876 117.048  25.342  1.00 60.92       DS4
ATOM  36534  C   LYS D  63     150.927 110.964  26.851  1.00 52.87       DS4
ATOM  36535  O   LYS D  63     150.556 110.589  27.955  1.00 52.87       DS4
ATOM  36536  N   LEU D  64     150.088 111.115  25.834  1.00 48.54       DS4
ATOM  36537  CA  LEU D  64     148.654 110.878  25.980  1.00 48.54       DS4
ATOM  36538  CB  LEU D  64     147.945 111.127  24.639  1.00 22.62       DS4
ATOM  36539  CG  LEU D  64     146.414 111.078  24.592  1.00 22.62       DS4
ATOM  36540  CD1 LEU D  64     145.944 109.680  24.656  1.00 22.62       DS4
ATOM  36541  CD2 LEU D  64     145.825 111.862  25.750  1.00 22.62       DS4
ATOM  36542  C   LEU D  64     148.313 109.479  26.494  1.00 48.54       DS4
ATOM  36543  O   LEU D  64     147.471 109.322  27.382  1.00 48.54       DS4
ATOM  36544  N   ARG D  65     148.958 108.461  25.936  1.00 52.09       DS4
ATOM  36545  CA  ARG D  65     148.668 107.102  26.361  1.00 52.09       DS4
ATOM  36546  CB  ARG D  65     149.243 106.073  25.396  1.00 57.15       DS4
ATOM  36547  CG  ARG D  65     148.820 104.656  25.747  1.00 57.15       DS4
ATOM  36548  CD  ARG D  65     149.554 103.616  24.927  1.00 57.15       DS4
ATOM  36549  NE  ARG D  65     150.711 103.088  25.633  1.00 57.15       DS4
ATOM  36550  CZ  ARG D  65     151.930 103.014  25.111  1.00 57.15       DS4
ATOM  36551  NH1 ARG D  65     152.148 103.439  23.875  1.00 57.15       DS4
ATOM  36552  NH2 ARG D  65     152.933 102.512  25.819  1.00 57.15       DS4
ATOM  36553  C   ARG D  65     149.207 106.803  27.735  1.00 52.09       DS4
ATOM  36554  O   ARG D  65     148.548 106.146  28.526  1.00 52.09       DS4
ATOM  36555  N   ARG D  66     150.410 107.275  28.019  1.00 49.01       DS4
ATOM  36556  CA  ARG D  66     151.008 107.013  29.313  1.00 49.01       DS4
ATOM  36557  CB  ARG D  66     152.455 107.478  29.333  1.00 60.14       DS4
ATOM  36558  CG  ARG D  66     153.351 106.561  28.551  1.00 60.14       DS4
ATOM  36559  CD  ARG D  66     154.792 106.963  28.677  1.00 60.14       DS4
ATOM  36560  NE  ARG D  66     155.661 106.032  27.969  1.00 60.14       DS4
ATOM  36561  CZ  ARG D  66     156.986 106.114  27.941  1.00 60.14       DS4
ATOM  36562  NH1 ARG D  66     157.609 107.089  28.586  1.00 60.14       DS4
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ATOM  36563  NH2 ARG D  66     157.687 105.221  27.257  1.00 60.14       DS4
ATOM  36564  C   ARG D  66     150.225 107.654  30.437  1.00 49.01       DS4
ATOM  36565  O   ARG D  66     150.426 107.339  31.605  1.00 49.01       DS4
ATOM  36566  N   ILE D  67     149.319 108.552  30.094  1.00 42.87       DS4
ATOM  36567  CA  ILE D  67     148.515 109.170  31.123  1.00 42.87       DS4
ATOM  36568  CB  ILE D  67     147.819 110.404  30.612  1.00 24.28       DS4
ATOM  36569  CG2 ILE D  67     146.678 110.761  31.525  1.00 24.28       DS4
ATOM  36570  CG1 ILE D  67     148.816 111.547  30.514  1.00 24.28       DS4
ATOM  36571  CD1 ILE D  67     148.267 112.731  29.755  1.00 24.28       DS4
ATOM  36572  C   ILE D  67     147.456 108.192  31.597  1.00 42.87       DS4
ATOM  36573  O   ILE D  67     147.397 107.855  32.774  1.00 42.87       DS4
ATOM  36574  N   TYR D  68     146.622 107.728  30.677  1.00 36.31       DS4
ATOM  36575  CA  TYR D  68     145.557 106.796  31.031  1.00 36.31       DS4
ATOM  36576  CB  TYR D  68     144.543 106.704  29.891  1.00 57.82       DS4
ATOM  36577  CG  TYR D  68     143.809 107.989  29.616  1.00 57.82       DS4
ATOM  36578  CD1 TYR D  68     144.496 109.136  29.229  1.00 57.82       DS4
ATOM  36579  CE1 TYR D  68     143.819 110.321  28.954  1.00 57.82       DS4
ATOM  36580  CD2 TYR D  68     142.427 108.057  29.723  1.00 57.82       DS4
ATOM  36581  CE2 TYR D  68     141.743 109.232  29.452  1.00 57.82       DS4
ATOM  36582  CZ  TYR D  68     142.444 110.358  29.069  1.00 57.82       DS4
ATOM  36583  OH  TYR D  68     141.773 111.522  28.798  1.00 57.82       DS4
ATOM  36584  C   TYR D  68     146.013 105.383  31.412  1.00 36.31       DS4
ATOM  36585  O   TYR D  68     145.184 104.528  31.751  1.00 36.31       DS4
ATOM  36586  N   GLY D  69     147.318 105.140  31.369  1.00 60.83       DS4
ATOM  36587  CA  GLY D  69     147.824 103.820  31.702  1.00 60.83       DS4
ATOM  36588  C   GLY D  69     147.118 102.743  30.899  1.00 60.83       DS4
ATOM  36589  O   GLY D  69     146.342 101.953  31.433  1.00 60.83       DS4
ATOM  36590  N   ILE D  70     147.389 102.721  29.600  1.00 47.99       DS4
ATOM  36591  CA  ILE D  70     146.771 101.762  28.705  1.00 47.99       DS4
ATOM  36592  CB  ILE D  70     145.613 102.423  27.929  1.00 59.71       DS4
ATOM  36593  CG2 ILE D  70     145.383 101.728  26.599  1.00 59.71       DS4
ATOM  36594  CG1 ILE D  70     144.343 102.376  28.761  1.00 59.71       DS4
ATOM  36595  CD1 ILE D  70     143.133 102.804  27.974  1.00 59.71       DS4
ATOM  36596  C   ILE D  70     147.759 101.152  27.710  1.00 47.99       DS4
ATOM  36597  O   ILE D  70     148.659 101.821  27.195  1.00 47.99       DS4
ATOM  36598  N   SER D  71     147.571  99.864  27.453  1.00 51.59       DS4
ATOM  36599  CA  SER D  71     148.402  99.126  26.520  1.00 51.59       DS4
ATOM  36600  CB  SER D  71     147.923  97.682  26.449  1.00 86.91       DS4
ATOM  36601  OG  SER D  71     146.544  97.647  26.118  1.00 86.91       DS4
ATOM  36602  C   SER D  71     148.270  99.767  25.149  1.00 51.59       DS4
ATOM  36603  O   SER D  71     147.185 100.224  24.775  1.00 51.59       DS4
ATOM  36604  N   GLU D  72     149.367  99.797  24.398  1.00 44.97       DS4
ATOM  36605  CA  GLU D  72     149.331 100.374  23.063  1.00 44.97       DS4
ATOM  36606  CB  GLU D  72     150.655 100.164  22.338  1.00 69.66       DS4
ATOM  36607  CG  GLU D  72     150.638 100.643  20.899  1.00 69.66       DS4
ATOM  36608  CD  GLU D  72     150.257 102.102  20.766  1.00 69.66       DS4
ATOM  36609  OE1 GLU D  72     150.116 102.581  19.623  1.00 69.66       DS4
ATOM  36610  OE2 GLU D  72     150.101 102.780  21.800  1.00 69.66       DS4
ATOM  36611  C   GLU D  72     148.220  99.684  22.313  1.00 44.97       DS4
ATOM  36612  O   GLU D  72     147.554 100.284  21.474  1.00 44.97       DS4
ATOM  36613  N   ARG D  73     148.017  98.415  22.647  1.00 45.39       DS4
ATOM  36614  CA  ARG D  73     146.978  97.611  22.024  1.00 45.39       DS4
ATOM  36615  CB  ARG D  73     146.910  96.234  22.675  1.00111.97       DS4
ATOM  36616  CG  ARG D  73     146.174  95.209  21.847  1.00111.97       DS4
ATOM  36617  CD  ARG D  73     146.831  95.082  20.492  1.00111.97       DS4
ATOM  36618  NE  ARG D  73     146.354  93.927  19.742  1.00111.97       DS4
ATOM  36619  CZ  ARG D  73     146.744  93.636  18.506  1.00111.97       DS4
ATOM  36620  NH1 ARG D  73     147.616  94.421  17.882  1.00111.97       DS4
ATOM  36621  NH2 ARG D  73     146.269  92.559  17.896  1.00111.97       DS4
ATOM  36622  C   ARG D  73     145.633  98.306  22.164  1.00 45.39       DS4
ATOM  36623  O   ARG D  73     145.072  98.790  21.178  1.00 45.39       DS4
ATOM  36624  N   GLN D  74     145.124  98.365  23.393  1.00 38.64       DS4
ATOM  36625  CA  GLN D  74     143.837  98.999  23.656  1.00 38.64       DS4
ATOM  36626  CB  GLN D  74     143.555  99.026  25.162  1.00 51.63       DS4
ATOM  36627  CG  GLN D  74     143.262  97.663  25.762  1.00 51.63       DS4
ATOM  36628  CD  GLN D  74     142.430  97.752  27.025  1.00 51.63       DS4
ATOM  36629  OE1 GLN D  74     142.915  98.152  28.072  1.00 51.63       DS4
ATOM  36630  NE2 GLN D  74     141.162  97.388  26.924  1.00 51.63       DS4
ATOM  36631  C   GLN D  74     143.811 100.415  23.097  1.00 38.64       DS4
ATOM  36632  O   GLN D  74     142.857 100.815  22.432  1.00 38.64       DS4
ATOM  36633  N   PHE D  75     144.870 101.167  23.369  1.00 39.68       DS4
ATOM  36634  CA  PHE D  75     144.972 102.534  22.893  1.00 39.68       DS4
ATOM  36635  CB  PHE D  75     146.368 103.063  23.150  1.00 57.00       DS4
ATOM  36636  CG  PHE D  75     146.494 104.540  22.973  1.00 57.00       DS4
ATOM  36637  CD1 PHE D  75     145.999 105.403  23.932  1.00 57.00       DS4
ATOM  36638  CD2 PHE D  75     147.150 105.068  21.868  1.00 57.00       DS4
ATOM  36639  CE1 PHE D  75     146.160 106.760  23.801  1.00 57.00       DS4
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ATOM  36640  CE2 PHE D  75     147.318 106.444  21.726  1.00 57.00      DS4
ATOM  36641  CZ  PHE D  75     146.825 107.287  22.693  1.00 57.00      DS4
ATOM  36642  C   PHE D  75     144.697 102.574  21.399  1.00 39.68      DS4
ATOM  36643  O   PHE D  75     143.860 103.349  20.929  1.00 39.68      DS4
ATOM  36644  N   ARG D  76     145.420 101.729  20.664  1.00 44.94      DS4
ATOM  36645  CA  ARG D  76     145.285 101.621  19.217  1.00 44.94      DS4
ATOM  36646  CB  ARG D  76     146.210 100.521  18.692  1.00 97.24      DS4
ATOM  36647  CG  ARG D  76     146.199 100.372  17.186  1.00 97.24      DS4
ATOM  36648  CD  ARG D  76     146.662 101.650  16.515  1.00 97.24      DS4
ATOM  36649  NE  ARG D  76     146.454 101.623  15.072  1.00 97.24      DS4
ATOM  36650  CZ  ARG D  76     147.043 100.763  14.250  1.00 97.24      DS4
ATOM  36651  NH1 ARG D  76     147.885  99.857  14.728  1.00 97.24      DS4
ATOM  36652  NH2 ARG D  76     146.783 100.803  12.950  1.00 97.24      DS4
ATOM  36653  C   ARG D  76     143.837 101.316  18.820  1.00 44.94      DS4
ATOM  36654  O   ARG D  76     143.266 101.972  17.947  1.00 44.94      DS4
ATOM  36655  N   ASN D  77     143.240 100.320  19.463  1.00 44.00      DS4
ATOM  36656  CA  ASN D  77     141.867  99.966  19.153  1.00 44.00      DS4
ATOM  36657  CB  ASN D  77     141.426  98.785  20.001  1.00 73.12      DS4
ATOM  36658  CG  ASN D  77     142.058  97.490  19.549  1.00 73.12      DS4
ATOM  36659  OD1 ASN D  77     143.203  97.473  19.100  1.00 73.12      DS4
ATOM  36660  ND2 ASN D  77     141.320  96.393  19.676  1.00 73.12      DS4
ATOM  36661  C   ASN D  77     140.937 101.147  19.369  1.00 44.00      DS4
ATOM  36662  O   ASN D  77     140.233 101.557  18.445  1.00 44.00      DS4
ATOM  36663  N   LEU D  78     140.940 101.701  20.580  1.00 48.21      DS4
ATOM  36664  CA  LEU D  78     140.087 102.846  20.894  1.00 48.21      DS4
ATOM  36665  CB  LEU D  78     140.472 103.463  22.237  1.00 45.58      DS4
ATOM  36666  CG  LEU D  78     139.642 102.977  23.425  1.00 45.58      DS4
ATOM  36667  CD1 LEU D  78     140.092 103.676  24.683  1.00 45.58      DS4
ATOM  36668  CD2 LEU D  78     138.174 103.263  23.165  1.00 45.58      DS4
ATOM  36669  C   LEU D  78     140.215 103.895  19.818  1.00 48.21      DS4
ATOM  36670  O   LEU D  78     139.227 104.485  19.379  1.00 48.21      DS4
ATOM  36671  N   PHE D  79     141.448 104.120  19.386  1.00 28.97      DS4
ATOM  36672  CA  PHE D  79     141.689 105.097  18.352  1.00 28.97      DS4
ATOM  36673  CB  PHE D  79     143.174 105.259  18.103  1.00 47.72      DS4
ATOM  36674  CG  PHE D  79     143.468 106.236  17.035  1.00 47.72      DS4
ATOM  36675  CD1 PHE D  79     143.558 107.587  17.328  1.00 47.72      DS4
ATOM  36676  CD2 PHE D  79     143.548 105.825  15.716  1.00 47.72      DS4
ATOM  36677  CE1 PHE D  79     143.720 108.520  16.317  1.00 47.72      DS4
ATOM  36678  CE2 PHE D  79     143.706 106.743  14.703  1.00 47.72      DS4
ATOM  36679  CZ  PHE D  79     143.792 108.098  14.998  1.00 47.72      DS4
ATOM  36680  C   PHE D  79     141.018 104.702  17.037  1.00 28.97      DS4
ATOM  36681  O   PHE D  79     140.268 105.483  16.444  1.00 28.97      DS4
ATOM  36682  N   GLU D  80     141.306 103.491  16.572  1.00 43.54      DS4
ATOM  36683  CA  GLU D  80     140.723 103.030  15.329  1.00 43.54      DS4
ATOM  36684  CB  GLU D  80     141.166 101.606  15.021  1.00 91.21      DS4
ATOM  36685  CG  GLU D  80     142.638 101.512  14.664  1.00 91.21      DS4
ATOM  36686  CD  GLU D  80     143.015 102.364  13.457  1.00 91.21      DS4
ATOM  36687  OE1 GLU D  80     144.226 102.483  13.166  1.00 91.21      DS4
ATOM  36688  OE2 GLU D  80     142.104 102.911  12.799  1.00 91.21      DS4
ATOM  36689  C   GLU D  80     139.219 103.109  15.429  1.00 43.54      DS4
ATOM  36690  O   GLU D  80     138.539 103.341  14.435  1.00 43.54      DS4
ATOM  36691  N   GLU D  81     138.697 102.936  16.638  1.00 59.25      DS4
ATOM  36692  CA  GLU D  81     137.260 103.009  16.835  1.00 59.25      DS4
ATOM  36693  CB  GLU D  81     136.874 102.559  18.237  1.00 64.51      DS4
ATOM  36694  CG  GLU D  81     135.389 102.727  18.511  1.00 64.51      DS4
ATOM  36695  CD  GLU D  81     134.938 102.042  19.784  1.00 64.51      DS4
ATOM  36696  OE1 GLU D  81     133.718 102.086  20.070  1.00 64.51      DS4
ATOM  36697  OE2 GLU D  81     135.798 101.460  20.489  1.00 64.51      DS4
ATOM  36698  C   GLU D  81     136.796 104.435  16.641  1.00 59.25      DS4
ATOM  36699  O   GLU D  81     135.769 104.691  16.017  1.00 59.25      DS4
ATOM  36700  N   ALA D  82     137.557 105.369  17.187  1.00 35.16      DS4
ATOM  36701  CA  ALA D  82     137.192 106.758  17.063  1.00 35.16      DS4
ATOM  36702  CB  ALA D  82     138.095 107.598  17.911  1.00  9.12      DS4
ATOM  36703  C   ALA D  82     137.281 107.184  15.608  1.00 35.16      DS4
ATOM  36704  O   ALA D  82     136.476 107.992  15.135  1.00 35.16      DS4
ATOM  36705  N   SER D  83     138.262 106.641  14.894  1.00 50.34      DS4
ATOM  36706  CA  SER D  83     138.439 106.969  13.483  1.00 50.34      DS4
ATOM  36707  CB  SER D  83     139.632 106.201  12.907  1.00 74.35      DS4
ATOM  36708  OG  SER D  83     140.792 106.382  13.705  1.00 74.35      DS4
ATOM  36709  C   SER D  83     137.167 106.581  12.745  1.00 50.34      DS4
ATOM  36710  O   SER D  83     136.459 107.428  12.216  1.00 50.34      DS4
ATOM  36711  N   LYS D  84     136.870 105.290  12.740  1.00 59.93      DS4
ATOM  36712  CA  LYS D  84     135.685 104.783  12.068  1.00 59.93      DS4
ATOM  36713  CB  LYS D  84     135.536 103.284  12.346  1.00103.49      DS4
ATOM  36714  CG  LYS D  84     136.776 102.481  11.963  1.00103.49      DS4
ATOM  36715  CD  LYS D  84     136.656 100.993  12.293  1.00103.49      DS4
ATOM  36716  CE  LYS D  84     137.918 100.239  11.871  1.00103.49      DS4
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ATOM  36717  NZ  LYS D  84     137.826  98.785  12.153  1.00103.49       DS4
ATOM  36718  C   LYS D  84     134.436 105.522  12.522  1.00 59.93       DS4
ATOM  36719  O   LYS D  84     133.456 105.618  11.785  1.00 59.93       DS4
ATOM  36720  N   LYS D  85     134.482 106.069  13.728  1.00 46.76       DS4
ATOM  36721  CA  LYS D  85     133.335 106.764  14.295  1.00 46.76       DS4
ATOM  36722  CB  LYS D  85     133.591 107.039  15.772  1.00 42.07       DS4
ATOM  36723  CG  LYS D  85     132.344 107.122  16.633  1.00 42.07       DS4
ATOM  36724  CD  LYS D  85     131.862 105.736  17.035  1.00 42.07       DS4
ATOM  36725  CE  LYS D  85     131.015 105.769  18.304  1.00 42.07       DS4
ATOM  36726  NZ  LYS D  85     131.826 106.250  19.463  1.00 42.07       DS4
ATOM  36727  C   LYS D  85     133.004 108.069  13.588  1.00 46.76       DS4
ATOM  36728  O   LYS D  85     133.876 108.722  13.016  1.00 46.76       DS4
ATOM  36729  N   LYS D  86     131.731 108.442  13.643  1.00 88.07       DS4
ATOM  36730  CA  LYS D  86     131.240 109.675  13.035  1.00 88.07       DS4
ATOM  36731  CB  LYS D  86     129.714 109.600  12.894  1.00132.61       DS4
ATOM  36732  CG  LYS D  86     129.090 110.551  11.880  1.00132.61       DS4
ATOM  36733  CD  LYS D  86     127.585 110.294  11.764  1.00132.61       DS4
ATOM  36734  CE  LYS D  86     127.026 110.744  10.417  1.00132.61       DS4
ATOM  36735  NZ  LYS D  86     127.226 112.197  10.157  1.00132.61       DS4
ATOM  36736  C   LYS D  86     131.614 110.817  13.975  1.00 88.07       DS4
ATOM  36737  O   LYS D  86     131.318 110.765  15.170  1.00 88.07       DS4
ATOM  36738  N   GLY D  87     132.268 111.844  13.448  1.00 80.24       DS4
ATOM  36739  CA  GLY D  87     132.654 112.961  14.292  1.00 80.24       DS4
ATOM  36740  C   GLY D  87     134.154 113.146  14.397  1.00 80.24       DS4
ATOM  36741  O   GLY D  87     134.924 112.201  14.228  1.00 80.24       DS4
ATOM  36742  N   VAL D  88     134.563 114.375  14.690  1.00 46.14       DS4
ATOM  36743  CA  VAL D  88     135.975 114.719  14.808  1.00 46.14       DS4
ATOM  36744  CB  VAL D  88     136.139 116.120  15.389  1.00 69.01       DS4
ATOM  36745  CG1 VAL D  88     137.590 116.536  15.332  1.00 69.01       DS4
ATOM  36746  CG2 VAL D  88     135.270 117.090  14.623  1.00 69.01       DS4
ATOM  36747  C   VAL D  88     136.769 113.744  15.664  1.00 46.14       DS4
ATOM  36748  O   VAL D  88     136.854 113.896  16.880  1.00 46.14       DS4
ATOM  36749  N   THR D  89     137.358 112.750  15.010  1.00 36.26       DS4
ATOM  36750  CA  THR D  89     138.159 111.724  15.671  1.00 36.26       DS4
ATOM  36751  CB  THR D  89     139.160 111.122  14.668  1.00 51.45       DS4
ATOM  36752  OG1 THR D  89     138.452 110.274  13.757  1.00 51.45       DS4
ATOM  36753  CG2 THR D  89     140.234 110.325  15.383  1.00 51.45       DS4
ATOM  36754  C   THR D  89     138.916 112.193  16.920  1.00 36.26       DS4
ATOM  36755  O   THR D  89     138.793 111.584  17.987  1.00 36.26       DS4
ATOM  36756  N   GLY D  90     139.700 113.262  16.773  1.00 40.89       DS4
ATOM  36757  CA  GLY D  90     140.464 113.805  17.882  1.00 40.89       DS4
ATOM  36758  C   GLY D  90     139.695 113.792  19.189  1.00 40.89       DS4
ATOM  36759  O   GLY D  90     140.080 113.112  20.144  1.00 40.89       DS4
ATOM  36760  N   SER D  91     138.602 114.542  19.244  1.00 62.10       DS4
ATOM  36761  CA  SER D  91     137.796 114.578  20.454  1.00 62.10       DS4
ATOM  36762  CB  SER D  91     136.570 115.465  20.248  1.00102.70       DS4
ATOM  36763  OG  SER D  91     135.745 114.954  19.218  1.00102.70       DS4
ATOM  36764  C   SER D  91     137.351 113.159  20.796  1.00 62.10       DS4
ATOM  36765  O   SER D  91     137.779 112.586  21.801  1.00 62.10       DS4
ATOM  36766  N   VAL D  92     136.500 112.601  19.939  1.00 53.69       DS4
ATOM  36767  CA  VAL D  92     135.966 111.255  20.108  1.00 53.69       DS4
ATOM  36768  CB  VAL D  92     135.589 110.643  18.760  1.00 28.36       DS4
ATOM  36769  CG1 VAL D  92     134.918 109.296  18.967  1.00 28.36       DS4
ATOM  36770  CG2 VAL D  92     134.681 111.594  18.008  1.00 28.36       DS4
ATOM  36771  C   VAL D  92     136.923 110.298  20.799  1.00 53.69       DS4
ATOM  36772  O   VAL D  92     136.527 109.549  21.694  1.00 53.69       DS4
ATOM  36773  N   PHE D  93     138.177 110.306  20.374  1.00 54.57       DS4
ATOM  36774  CA  PHE D  93     139.149 109.432  20.995  1.00 54.57       DS4
ATOM  36775  CB  PHE D  93     140.532 109.650  20.384  1.00 38.99       DS4
ATOM  36776  CG  PHE D  93     141.559 108.651  20.843  1.00 38.99       DS4
ATOM  36777  CD1 PHE D  93     142.915 108.903  20.676  1.00 38.99       DS4
ATOM  36778  CD2 PHE D  93     141.171 107.463  21.462  1.00 38.99       DS4
ATOM  36779  CE1 PHE D  93     143.870 107.989  21.125  1.00 38.99       DS4
ATOM  36780  CE2 PHE D  93     142.117 106.544  21.914  1.00 38.99       DS4
ATOM  36781  CZ  PHE D  93     143.471 106.807  21.747  1.00 38.99       DS4
ATOM  36782  C   PHE D  93     139.182 109.759  22.487  1.00 54.57       DS4
ATOM  36783  O   PHE D  93     138.924 108.898  23.331  1.00 54.57       DS4
ATOM  36784  N   LEU D  94     139.488 111.014  22.801  1.00 68.32       DS4
ATOM  36785  CA  LEU D  94     139.560 111.479  24.184  1.00 68.32       DS4
ATOM  36786  CB  LEU D  94     139.761 112.989  24.209  1.00 38.67       DS4
ATOM  36787  CG  LEU D  94     141.195 113.353  23.839  1.00 38.67       DS4
ATOM  36788  CD1 LEU D  94     141.330 114.816  23.454  1.00 38.67       DS4
ATOM  36789  CD2 LEU D  94     142.061 113.005  25.027  1.00 38.67       DS4
ATOM  36790  C   LEU D  94     138.319 111.116  24.967  1.00 68.32       DS4
ATOM  36791  O   LEU D  94     138.406 110.621  26.088  1.00 68.32       DS4
ATOM  36792  N   GLY D  95     137.159 111.368  24.374  1.00 43.83       DS4
ATOM  36793  CA  GLY D  95     135.920 111.034  25.047  1.00 43.83       DS4
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ATOM  36794  C   GLY D  95      135.924 109.565  25.417  1.00 43.83      DS4
ATOM  36795  O   GLY D  95      135.740 109.196  26.582  1.00 43.83      DS4
ATOM  36796  N   LEU D  96      136.148 108.727  24.408  1.00 40.80      DS4
ATOM  36797  CA  LEU D  96      136.192 107.285  24.584  1.00 40.80      DS4
ATOM  36798  CB  LEU D  96      136.610 106.616  23.275  1.00 46.04      DS4
ATOM  36799  CG  LEU D  96      135.500 105.843  22.554  1.00 46.04      DS4
ATOM  36800  CD1 LEU D  96      134.234 106.674  22.513  1.00 46.04      DS4
ATOM  36801  CD2 LEU D  96      135.949 105.470  21.159  1.00 46.04      DS4
ATOM  36802  C   LEU D  96      137.151 106.911  25.689  1.00 40.80      DS4
ATOM  36803  O   LEU D  96      136.849 106.047  26.506  1.00 40.80      DS4
ATOM  36804  N   LEU D  97      138.304 107.570  25.709  1.00 33.69      DS4
ATOM  36805  CA  LEU D  97      139.327 107.324  26.720  1.00 33.69      DS4
ATOM  36806  CB  LEU D  97      140.571 108.158  26.430  1.00 35.67      DS4
ATOM  36807  CG  LEU D  97      141.581 107.679  25.395  1.00 35.67      DS4
ATOM  36808  CD1 LEU D  97      142.522 108.828  25.021  1.00 35.67      DS4
ATOM  36809  CD2 LEU D  97      142.335 106.474  25.964  1.00 35.67      DS4
ATOM  36810  C   LEU D  97      138.817 107.705  28.096  1.00 33.69      DS4
ATOM  36811  O   LEU D  97      139.164 107.076  29.103  1.00 33.69      DS4
ATOM  36812  N   GLU D  98      137.992 108.748  28.130  1.00 67.00      DS4
ATOM  36813  CA  GLU D  98      137.442 109.249  29.379  1.00 67.00      DS4
ATOM  36814  CB  GLU D  98      136.896 110.655  29.176  1.00 76.24      DS4
ATOM  36815  CG  GLU D  98      137.090 111.540  30.382  1.00 76.24      DS4
ATOM  36816  CD  GLU D  98      138.557 111.741  30.695  1.00 76.24      DS4
ATOM  36817  OE1 GLU D  98      139.302 112.098  29.765  1.00 76.24      DS4
ATOM  36818  OE2 GLU D  98      138.969 111.546  31.858  1.00 76.24      DS4
ATOM  36819  C   GLU D  98      136.349 108.362  29.957  1.00 67.00      DS4
ATOM  36820  O   GLU D  98      136.175 108.312  31.175  1.00 67.00      DS4
ATOM  36821  N   SER D  99      135.622 107.670  29.081  1.00 25.35      DS4
ATOM  36822  CA  SER D  99      134.535 106.787  29.494  1.00 25.35      DS4
ATOM  36823  CB  SER D  99      133.653 106.431  28.301  1.00 32.24      DS4
ATOM  36824  OG  SER D  99      133.170 107.586  27.641  1.00 32.24      DS4
ATOM  36825  C   SER D  99      135.015 105.494  30.160  1.00 25.35      DS4
ATOM  36826  O   SER D  99      134.202 104.694  30.660  1.00 25.35      DS4
ATOM  36827  N   ARG D 100      136.325 105.269  30.168  1.00 31.42      DS4
ATOM  36828  CA  ARG D 100      136.818 104.063  30.805  1.00 31.42      DS4
ATOM  36829  CB  ARG D 100      138.326 103.930  30.629  1.00 44.99      DS4
ATOM  36830  CG  ARG D 100      138.753 103.370  29.288  1.00 44.99      DS4
ATOM  36831  CD  ARG D 100      140.270 103.386  29.149  1.00 44.99      DS4
ATOM  36832  NE  ARG D 100      140.945 102.564  30.149  1.00 44.99      DS4
ATOM  36833  CZ  ARG D 100      140.950 101.233  30.156  1.00 44.99      DS4
ATOM  36834  NH1 ARG D 100      140.314 100.564  29.204  1.00 44.99      DS4
ATOM  36835  NH2 ARG D 100      141.586 100.569  31.118  1.00 44.99      DS4
ATOM  36836  C   ARG D 100      136.470 104.150  32.279  1.00 31.42      DS4
ATOM  36837  O   ARG D 100      136.807 105.133  32.943  1.00 31.42      DS4
ATOM  36838  N   LEU D 101      135.780 103.128  32.780  1.00 70.77      DS4
ATOM  36839  CA  LEU D 101      135.377 103.079  34.183  1.00 70.77      DS4
ATOM  36840  CB  LEU D 101      134.825 101.697  34.546  1.00 44.69      DS4
ATOM  36841  CG  LEU D 101      134.398 101.518  36.008  1.00 44.69      DS4
ATOM  36842  CD1 LEU D 101      133.475 102.655  36.396  1.00 44.69      DS4
ATOM  36843  CD2 LEU D 101      133.702 100.176  36.200  1.00 44.69      DS4
ATOM  36844  C   LEU D 101      136.525 103.419  35.117  1.00 70.77      DS4
ATOM  36845  O   LEU D 101      136.357 104.215  36.037  1.00 70.77      DS4
ATOM  36846  N   ASP D 102      137.687 102.815  34.895  1.00 43.46      DS4
ATOM  36847  CA  ASP D 102      138.826 103.111  35.750  1.00 43.46      DS4
ATOM  36848  CB  ASP D 102      140.099 102.433  35.226  1.00 75.58      DS4
ATOM  36849  CG  ASP D 102      140.412 102.800  33.798  1.00 75.58      DS4
ATOM  36850  OD1 ASP D 102      139.497 102.704  32.957  1.00 75.58      DS4
ATOM  36851  OD2 ASP D 102      141.570 103.175  33.512  1.00 75.58      DS4
ATOM  36852  C   ASP D 102      139.002 104.627  35.826  1.00 43.46      DS4
ATOM  36853  O   ASP D 102      138.862 105.214  36.898  1.00 43.46      DS4
ATOM  36854  N   ASN D 103      139.277 105.264  34.693  1.00 41.32      DS4
ATOM  36855  CA  ASN D 103      139.446 106.713  34.661  1.00 41.32      DS4
ATOM  36856  CB  ASN D 103      139.565 107.190  33.214  1.00 51.70      DS4
ATOM  36857  CG  ASN D 103      139.495 108.700  33.084  1.00 51.70      DS4
ATOM  36858  OD1 ASN D 103      140.485 109.408  33.307  1.00 51.70      DS4
ATOM  36859  ND2 ASN D 103      138.313 109.206  32.725  1.00 51.70      DS4
ATOM  36860  C   ASN D 103      138.282 107.448  35.345  1.00 41.32      DS4
ATOM  36861  O   ASN D 103      138.496 108.331  36.173  1.00 41.32      DS4
ATOM  36862  N   VAL D 104      137.051 107.093  34.999  1.00 34.08      DS4
ATOM  36863  CA  VAL D 104      135.892 107.752  35.597  1.00 34.08      DS4
ATOM  36864  CB  VAL D 104      134.576 107.105  35.138  1.00 34.95      DS4
ATOM  36865  CG1 VAL D 104      133.409 107.685  35.917  1.00 34.95      DS4
ATOM  36866  CG2 VAL D 104      134.391 107.320  33.663  1.00 34.95      DS4
ATOM  36867  C   VAL D 104      135.936 107.695  37.112  1.00 34.08      DS4
ATOM  36868  O   VAL D 104      135.473 108.608  37.785  1.00 34.08      DS4
ATOM  36869  N   VAL D 105      136.484 106.610  37.643  1.00 52.51      DS4
ATOM  36870  CA  VAL D 105      136.580 106.431  39.082  1.00 52.51      DS4
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ATOM  36871  CB  VAL D 105     136.945 104.983  39.409  1.00 48.10      DS4
ATOM  36872  CG1 VAL D 105     137.539 104.875  40.798  1.00 48.10      DS4
ATOM  36873  CG2 VAL D 105     135.699 104.127  39.294  1.00 48.10      DS4
ATOM  36874  C   VAL D 105     137.617 107.377  39.649  1.00 52.51      DS4
ATOM  36875  O   VAL D 105     137.559 107.766  40.812  1.00 52.51      DS4
ATOM  36876  N   TYR D 106     138.570 107.746  38.812  1.00 41.14      DS4
ATOM  36877  CA  TYR D 106     139.611 108.670  39.217  1.00 41.14      DS4
ATOM  36878  CB  TYR D 106     140.760 108.621  38.221  1.00 54.56      DS4
ATOM  36879  CG  TYR D 106     141.827 109.669  38.419  1.00 54.56      DS4
ATOM  36880  CD1 TYR D 106     142.786 109.539  39.424  1.00 54.56      DS4
ATOM  36881  CE1 TYR D 106     143.811 110.467  39.561  1.00 54.56      DS4
ATOM  36882  CD2 TYR D 106     141.911 110.761  37.559  1.00 54.56      DS4
ATOM  36883  CE2 TYR D 106     142.932 111.705  37.685  1.00 54.56      DS4
ATOM  36884  CZ  TYR D 106     143.885 111.553  38.686  1.00 54.56      DS4
ATOM  36885  OH  TYR D 106     144.917 112.472  38.790  1.00 54.56      DS4
ATOM  36886  C   TYR D 106     139.003 110.055  39.211  1.00 41.14      DS4
ATOM  36887  O   TYR D 106     139.266 110.863  40.094  1.00 41.14      DS4
ATOM  36888  N   ARG D 107     138.185 110.324  38.205  1.00 56.54      DS4
ATOM  36889  CA  ARG D 107     137.557 111.626  38.097  1.00 56.54      DS4
ATOM  36890  CB  ARG D 107     136.781 111.739  36.779  1.00 70.16      DS4
ATOM  36891  CG  ARG D 107     137.649 111.696  35.515  1.00 70.16      DS4
ATOM  36892  CD  ARG D 107     138.657 112.851  35.462  1.00 70.16      DS4
ATOM  36893  NE  ARG D 107     139.326 112.972  34.163  1.00 70.16      DS4
ATOM  36894  CZ  ARG D 107     140.306 113.833  33.893  1.00 70.16      DS4
ATOM  36895  NH1 ARG D 107     140.749 114.659  34.827  1.00 70.16      DS4
ATOM  36896  NH2 ARG D 107     140.846 113.871  32.683  1.00 70.16      DS4
ATOM  36897  C   ARG D 107     136.641 111.909  39.284  1.00 56.54      DS4
ATOM  36898  O   ARG D 107     136.622 113.029  39.795  1.00 56.54      DS4
ATOM  36899  N   LEU D 108     135.896 110.900  39.733  1.00 49.28      DS4
ATOM  36900  CA  LEU D 108     134.981 111.075  40.866  1.00 49.28      DS4
ATOM  36901  CB  LEU D 108     133.945 109.957  40.893  1.00 46.39      DS4
ATOM  36902  CG  LEU D 108     132.940 110.060  39.756  1.00 46.39      DS4
ATOM  36903  CD1 LEU D 108     132.145 108.779  39.630  1.00 46.39      DS4
ATOM  36904  CD2 LEU D 108     132.039 111.235  40.019  1.00 46.39      DS4
ATOM  36905  C   LEU D 108     135.713 111.117  42.200  1.00 49.28      DS4
ATOM  36906  O   LEU D 108     135.096 111.243  43.255  1.00 49.28      DS4
ATOM  36907  N   GLY D 109     137.032 110.992  42.143  1.00 43.77      DS4
ATOM  36908  CA  GLY D 109     137.827 111.044  43.346  1.00 43.77      DS4
ATOM  36909  C   GLY D 109     137.825 109.815  44.221  1.00 43.77      DS4
ATOM  36910  O   GLY D 109     138.483 109.820  45.260  1.00 43.77      DS4
ATOM  36911  N   PHE D 110     137.115 108.760  43.832  1.00 46.67      DS4
ATOM  36912  CA  PHE D 110     137.094 107.550  44.658  1.00 46.67      DS4
ATOM  36913  CB  PHE D 110     136.270 106.439  44.000  1.00 61.45      DS4
ATOM  36914  CG  PHE D 110     134.804 106.756  43.861  1.00 61.45      DS4
ATOM  36915  CD1 PHE D 110     134.305 108.006  44.203  1.00 61.45      DS4
ATOM  36916  CD2 PHE D 110     133.929 105.807  43.351  1.00 61.45      DS4
ATOM  36917  CE1 PHE D 110     132.956 108.308  44.035  1.00 61.45      DS4
ATOM  36918  CE2 PHE D 110     132.577 106.100  43.180  1.00 61.45      DS4
ATOM  36919  CZ  PHE D 110     132.090 107.354  43.521  1.00 61.45      DS4
ATOM  36920  C   PHE D 110     138.517 107.054  44.912  1.00 46.67      DS4
ATOM  36921  O   PHE D 110     138.740 106.196  45.757  1.00 46.67      DS4
ATOM  36922  N   ALA D 111     139.481 107.592  44.173  1.00 38.93      DS4
ATOM  36923  CA  ALA D 111     140.868 107.206  44.379  1.00 38.93      DS4
ATOM  36924  CB  ALA D 111     141.159 105.886  43.692  1.00 22.54      DS4
ATOM  36925  C   ALA D 111     141.872 108.272  43.935  1.00 38.93      DS4
ATOM  36926  O   ALA D 111     141.603 109.096  43.050  1.00 38.93      DS4
ATOM  36927  N   VAL D 112     143.033 108.229  44.579  1.00 57.14      DS4
ATOM  36928  CA  VAL D 112     144.136 109.145  44.350  1.00 57.14      DS4
ATOM  36929  CB  VAL D 112     145.314 108.750  45.236  1.00 82.30      DS4
ATOM  36930  CG1 VAL D 112     146.526 109.585  44.901  1.00 82.30      DS4
ATOM  36931  CG2 VAL D 112     144.930 108.919  46.692  1.00 82.30      DS4
ATOM  36932  C   VAL D 112     144.630 109.235  42.911  1.00 57.14      DS4
ATOM  36933  O   VAL D 112     144.822 110.336  42.394  1.00 57.14      DS4
ATOM  36934  N   SER D 113     144.843 108.078  42.278  1.00 66.98      DS4
ATOM  36935  CA  SER D 113     145.350 107.998  40.903  1.00 66.98      DS4
ATOM  36936  CB  SER D 113     146.803 107.540  40.903  1.00 79.16      DS4
ATOM  36937  OG  SER D 113     146.867 106.148  41.184  1.00 79.16      DS4
ATOM  36938  C   SER D 113     144.573 106.998  40.075  1.00 66.98      DS4
ATOM  36939  O   SER D 113     143.616 106.399  40.547  1.00 66.98      DS4
ATOM  36940  N   ARG D 114     145.018 106.801  38.837  1.00 45.26      DS4
ATOM  36941  CA  ARG D 114     144.366 105.852  37.939  1.00 45.26      DS4
ATOM  36942  CB  ARG D 114     144.618 106.218  36.474  1.00 47.63      DS4
ATOM  36943  CG  ARG D 114     143.971 107.521  36.044  1.00 47.63      DS4
ATOM  36944  CD  ARG D 114     143.715 107.531  34.547  1.00 47.63      DS4
ATOM  36945  NE  ARG D 114     143.041 108.744  34.091  1.00 47.63      DS4
ATOM  36946  CZ  ARG D 114     143.576 109.960  34.134  1.00 47.63      DS4
ATOM  36947  NH1 ARG D 114     144.805 110.142  34.612  1.00 47.63      DS4
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ATOM  36948  NH2 ARG D 114     142.871 110.996  33.699  1.00 47.63      DS4
ATOM  36949  C   ARG D 114     144.858 104.440  38.204  1.00 45.26      DS4
ATOM  36950  O   ARG D 114     144.082 103.497  38.192  1.00 45.26      DS4
ATOM  36951  N   ARG D 115     146.154 104.297  38.446  1.00 40.91      DS4
ATOM  36952  CA  ARG D 115     146.716 102.986  38.720  1.00 40.91      DS4
ATOM  36953  CB  ARG D 115     148.211 103.084  39.043  1.00104.86      DS4
ATOM  36954  CG  ARG D 115     149.022 103.937  38.082  1.00104.86      DS4
ATOM  36955  CD  ARG D 115     150.502 103.874  38.425  1.00104.86      DS4
ATOM  36956  NE  ARG D 115     151.149 102.681  37.886  1.00104.86      DS4
ATOM  36957  CZ  ARG D 115     152.407 102.335  38.143  1.00104.86      DS4
ATOM  36958  NH1 ARG D 115     153.149 103.091  38.938  1.00104.86      DS4
ATOM  36959  NH2 ARG D 115     152.931 101.247  37.593  1.00104.86      DS4
ATOM  36960  C   ARG D 115     145.968 102.468  39.933  1.00 40.91      DS4
ATOM  36961  O   ARG D 115     145.555 101.310  39.974  1.00 40.91      DS4
ATOM  36962  N   GLN D 116     145.792 103.337  40.925  1.00 65.35      DS4
ATOM  36963  CA  GLN D 116     145.083 102.943  42.126  1.00 65.35      DS4
ATOM  36964  CB  GLN D 116     145.099 104.067  43.166  1.00 54.96      DS4
ATOM  36965  CG  GLN D 116     144.429 103.686  44.493  1.00 54.96      DS4
ATOM  36966  CD  GLN D 116     144.243 104.860  45.437  1.00 54.96      DS4
ATOM  36967  OE1 GLN D 116     143.472 105.775  45.160  1.00 54.96      DS4
ATOM  36968  NE2 GLN D 116     144.953 104.836  46.562  1.00 54.96      DS4
ATOM  36969  C   GLN D 116     143.655 102.644  41.709  1.00 65.35      DS4
ATOM  36970  O   GLN D 116     143.187 101.513  41.817  1.00 65.35      DS4
ATOM  36971  N   ALA D 117     142.970 103.664  41.212  1.00 53.07      DS4
ATOM  36972  CA  ALA D 117     141.594 103.499  40.780  1.00 53.07      DS4
ATOM  36973  CB  ALA D 117     141.188 104.653  39.872  1.00 72.46      DS4
ATOM  36974  C   ALA D 117     141.420 102.176  40.048  1.00 53.07      DS4
ATOM  36975  O   ALA D 117     140.436 101.469  40.256  1.00 53.07      DS4
ATOM  36976  N   ARG D 118     142.381 101.833  39.197  1.00 52.22      DS4
ATOM  36977  CA  ARG D 118     142.294 100.593  38.440  1.00 52.22      DS4
ATOM  36978  CB  ARG D 118     143.543 100.393  37.587  1.00 74.81      DS4
ATOM  36979  CG  ARG D 118     143.420  99.276  36.569  1.00 74.81      DS4
ATOM  36980  CD  ARG D 118     144.781  98.913  36.000  1.00 74.81      DS4
ATOM  36981  NE  ARG D 118     144.678  98.007  34.859  1.00 74.81      DS4
ATOM  36982  CZ  ARG D 118     144.219  98.370  33.668  1.00 74.81      DS4
ATOM  36983  NH1 ARG D 118     144.157  97.486  32.683  1.00 74.81      DS4
ATOM  36984  NH2 ARG D 118     143.826  99.624  33.463  1.00 74.81      DS4
ATOM  36985  C   ARG D 118     142.134  99.417  39.385  1.00 52.22      DS4
ATOM  36986  O   ARG D 118     141.253  98.581  39.189  1.00 52.22      DS4
ATOM  36987  N   GLN D 119     142.981  99.360  40.414  1.00 48.17      DS4
ATOM  36988  CA  GLN D 119     142.927  98.273  41.388  1.00 48.17      DS4
ATOM  36989  CB  GLN D 119     144.062  98.405  42.404  1.00 63.36      DS4
ATOM  36990  CG  GLN D 119     144.014  97.371  43.520  1.00 63.36      DS4
ATOM  36991  CD  GLN D 119     145.302  97.301  44.330  1.00 63.36      DS4
ATOM  36992  OE1 GLN D 119     145.718  98.271  44.962  1.00 63.36      DS4
ATOM  36993  NE2 GLN D 119     145.942  96.146  44.307  1.00 63.36      DS4
ATOM  36994  C   GLN D 119     141.585  98.223  42.112  1.00 48.17      DS4
ATOM  36995  O   GLN D 119     141.080  97.144  42.429  1.00 48.17      DS4
ATOM  36996  N   LEU D 120     140.999  99.385  42.368  1.00 51.67      DS4
ATOM  36997  CA  LEU D 120     139.716  99.413  43.048  1.00 51.67      DS4
ATOM  36998  CB  LEU D 120     139.279 100.848  43.326  1.00 51.94      DS4
ATOM  36999  CG  LEU D 120     139.981 101.596  44.451  1.00 51.94      DS4
ATOM  37000  CD1 LEU D 120     139.503 103.039  44.471  1.00 51.94      DS4
ATOM  37001  CD2 LEU D 120     139.683 100.917  45.764  1.00 51.94      DS4
ATOM  37002  C   LEU D 120     138.639  98.712  42.230  1.00 51.67      DS4
ATOM  37003  O   LEU D 120     137.669  98.198  42.780  1.00 51.67      DS4
ATOM  37004  N   VAL D 121     138.807  98.692  40.916  1.00 49.78      DS4
ATOM  37005  CA  VAL D 121     137.821  98.057  40.057  1.00 49.78      DS4
ATOM  37006  CB  VAL D 121     137.874  98.649  38.645  1.00 52.64      DS4
ATOM  37007  CG1 VAL D 121     136.835  97.977  37.760  1.00 52.64      DS4
ATOM  37008  CG2 VAL D 121     137.637 100.146  38.714  1.00 52.64      DS4
ATOM  37009  C   VAL D 121     138.022  96.549  39.973  1.00 49.78      DS4
ATOM  37010  O   VAL D 121     137.057  95.787  39.967  1.00 49.78      DS4
ATOM  37011  N   ARG D 122     139.283  96.135  39.908  1.00 52.82      DS4
ATOM  37012  CA  ARG D 122     139.644  94.727  39.824  1.00 52.82      DS4
ATOM  37013  CB  ARG D 122     141.135  94.585  39.525  1.00 64.85      DS4
ATOM  37014  CG  ARG D 122     141.465  94.172  38.104  1.00 64.85      DS4
ATOM  37015  CD  ARG D 122     141.186  92.692  37.838  1.00 64.85      DS4
ATOM  37016  NE  ARG D 122     139.794  92.416  37.499  1.00 64.85      DS4
ATOM  37017  CZ  ARG D 122     139.367  91.261  36.997  1.00 64.85      DS4
ATOM  37018  NH1 ARG D 122     140.222  90.275  36.776  1.00 64.85      DS4
ATOM  37019  NH2 ARG D 122     138.088  91.088  36.705  1.00 64.85      DS4
ATOM  37020  C   ARG D 122     139.329  94.006  41.121  1.00 52.82      DS4
ATOM  37021  O   ARG D 122     139.139  92.794  41.139  1.00 52.82      DS4
ATOM  37022  N   HIS D 123     139.297  94.750  42.216  1.00 56.17      DS4
ATOM  37023  CA  HIS D 123     138.995  94.141  43.492  1.00 56.17      DS4
ATOM  37024  CB  HIS D 123     139.927  94.684  44.570  1.00 52.26      DS4
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ATOM  37025  CG  HIS D 123     141.374  94.422  44.294  1.00 52.26       DS4
ATOM  37026  CD2 HIS D 123     142.497  94.992  44.790  1.00 52.26       DS4
ATOM  37027  ND1 HIS D 123     141.798  93.425  43.442  1.00 52.26       DS4
ATOM  37028  CE1 HIS D 123     143.120  93.390  43.429  1.00 52.26       DS4
ATOM  37029  NE2 HIS D 123     143.568  94.331  44.240  1.00 52.26       DS4
ATOM  37030  C   HIS D 123     137.541  94.404  43.836  1.00 56.17       DS4
ATOM  37031  O   HIS D 123     137.161  94.442  44.997  1.00 56.17       DS4
ATOM  37032  N   GLY D 124     136.736  94.588  42.796  1.00 68.95       DS4
ATOM  37033  CA  GLY D 124     135.310  94.824  42.951  1.00 68.95       DS4
ATOM  37034  C   GLY D 124     134.831  95.711  44.083  1.00 68.95       DS4
ATOM  37035  O   GLY D 124     133.961  95.308  44.851  1.00 68.95       DS4
ATOM  37036  N   HIS D 125     135.390  96.914  44.188  1.00 65.37       DS4
ATOM  37037  CA  HIS D 125     134.991  97.866  45.223  1.00 65.37       DS4
ATOM  37038  CB  HIS D 125     136.201  98.608  45.795  1.00 56.20       DS4
ATOM  37039  CG  HIS D 125     137.227  97.721  46.427  1.00 56.20       DS4
ATOM  37040  CD2 HIS D 125     138.578  97.720  46.336  1.00 56.20       DS4
ATOM  37041  ND1 HIS D 125     136.904  96.733  47.333  1.00 56.20       DS4
ATOM  37042  CE1 HIS D 125     138.013  96.163  47.773  1.00 56.20       DS4
ATOM  37043  NE2 HIS D 125     139.043  96.745  47.185  1.00 56.20       DS4
ATOM  37044  C   HIS D 125     134.087  98.892  44.565  1.00 65.37       DS4
ATOM  37045  O   HIS D 125     133.587  99.806  45.216  1.00 65.37       DS4
ATOM  37046  N   ILE D 126     133.881  98.743  43.265  1.00 43.45       DS4
ATOM  37047  CA  ILE D 126     133.069  99.697  42.540  1.00 43.45       DS4
ATOM  37048  CB  ILE D 126     133.871 100.345  41.409  1.00 33.89       DS4
ATOM  37049  CG2 ILE D 126     133.079 101.487  40.812  1.00 33.89       DS4
ATOM  37050  CG1 ILE D 126     135.231 100.827  41.934  1.00 33.89       DS4
ATOM  37051  CD1 ILE D 126     135.170 101.968  42.953  1.00 33.89       DS4
ATOM  37052  C   ILE D 126     131.828  99.074  41.943  1.00 43.45       DS4
ATOM  37053  O   ILE D 126     131.789  97.878  41.655  1.00 43.45       DS4
ATOM  37054  N   THR D 127     130.816  99.906  41.749  1.00 64.01       DS4
ATOM  37055  CA  THR D 127     129.557  99.459  41.196  1.00 64.01       DS4
ATOM  37056  CB  THR D 127     128.464  99.452  42.269  1.00 70.37       DS4
ATOM  37057  OG1 THR D 127     127.245  98.964  41.702  1.00 70.37       DS4
ATOM  37058  CG2 THR D 127     128.236 100.866  42.796  1.00 70.37       DS4
ATOM  37059  C   THR D 127     129.120 100.389  40.074  1.00 64.01       DS4
ATOM  37060  O   THR D 127     129.506 101.560  40.028  1.00 64.01       DS4
ATOM  37061  N   VAL D 128     128.307  99.856  39.171  1.00 57.62       DS4
ATOM  37062  CA  VAL D 128     127.801 100.622  38.050  1.00 57.62       DS4
ATOM  37063  CB  VAL D 128     128.502 100.225  36.740  1.00 31.16       DS4
ATOM  37064  CG1 VAL D 128     127.876 100.952  35.563  1.00 31.16       DS4
ATOM  37065  CG2 VAL D 128     129.985 100.538  36.841  1.00 31.16       DS4
ATOM  37066  C   VAL D 128     126.330 100.300  37.945  1.00 57.62       DS4
ATOM  37067  O   VAL D 128     125.956  99.186  37.585  1.00 57.62       DS4
ATOM  37068  N   ASN D 129     125.501 101.283  38.277  1.00 65.20       DS4
ATOM  37069  CA  ASN D 129     124.058 101.117  38.235  1.00 65.20       DS4
ATOM  37070  CB  ASN D 129     123.601 100.743  36.830  1.00 58.19       DS4
ATOM  37071  CG  ASN D 129     123.879 101.824  35.822  1.00 58.19       DS4
ATOM  37072  OD1 ASN D 129     123.457 102.969  35.983  1.00 58.19       DS4
ATOM  37073  ND2 ASN D 129     124.587 101.466  34.762  1.00 58.19       DS4
ATOM  37074  C   ASN D 129     123.613 100.035  39.201  1.00 65.20       DS4
ATOM  37075  O   ASN D 129     122.515  99.499  39.067  1.00 65.20       DS4
ATOM  37076  N   GLY D 130     124.461  99.700  40.169  1.00 74.31       DS4
ATOM  37077  CA  GLY D 130     124.083  98.677  41.127  1.00 74.31       DS4
ATOM  37078  C   GLY D 130     124.943  97.431  41.095  1.00 74.31       DS4
ATOM  37079  O   GLY D 130     125.547  97.080  42.110  1.00 74.31       DS4
ATOM  37080  N   ARG D 131     124.988  96.752  39.948  1.00 49.56       DS4
ATOM  37081  CA  ARG D 131     125.798  95.545  39.806  1.00 49.56       DS4
ATOM  37082  CB  ARG D 131     125.447  94.803  38.512  1.00200.96       DS4
ATOM  37083  CG  ARG D 131     124.254  93.870  38.627  1.00200.96       DS4
ATOM  37084  CD  ARG D 131     123.013  94.612  39.076  1.00200.96       DS4
ATOM  37085  NE  ARG D 131     121.890  93.708  39.296  1.00200.96       DS4
ATOM  37086  CZ  ARG D 131     120.699  94.093  39.744  1.00200.96       DS4
ATOM  37087  NH1 ARG D 131     120.471  95.370  40.024  1.00200.96       DS4
ATOM  37088  NH2 ARG D 131     119.733  93.201  39.913  1.00200.96       DS4
ATOM  37089  C   ARG D 131     127.262  95.946  39.783  1.00 49.56       DS4
ATOM  37090  O   ARG D 131     127.618  96.936  39.135  1.00 49.56       DS4
ATOM  37091  N   ARG D 132     128.106  95.195  40.494  1.00 54.14       DS4
ATOM  37092  CA  ARG D 132     129.533  95.501  40.520  1.00 54.14       DS4
ATOM  37093  CB  ARG D 132     130.254  94.708  41.607  1.00125.56       DS4
ATOM  37094  CG  ARG D 132     130.445  93.240  41.286  1.00125.56       DS4
ATOM  37095  CD  ARG D 132     131.847  92.780  41.657  1.00125.56       DS4
ATOM  37096  NE  ARG D 132     131.831  91.440  42.228  1.00125.56       DS4
ATOM  37097  CZ  ARG D 132     131.337  91.151  43.428  1.00125.56       DS4
ATOM  37098  NH1 ARG D 132     130.825  92.110  44.188  1.00125.56       DS4
ATOM  37099  NH2 ARG D 132     131.339  89.900  43.865  1.00125.56       DS4
ATOM  37100  C   ARG D 132     130.171  95.184  39.172  1.00 54.14       DS4
ATOM  37101  O   ARG D 132     129.752  94.267  38.464  1.00 54.14       DS4
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ATOM  37102  N   VAL D 133     131.197  95.952  38.833  1.00 39.53      DS4
ATOM  37103  CA  VAL D 133     131.912  95.796  37.576  1.00 39.53      DS4
ATOM  37104  CB  VAL D 133     131.598  96.978  36.654  1.00 39.30      DS4
ATOM  37105  CG1 VAL D 133     132.468  96.918  35.421  1.00 39.30      DS4
ATOM  37106  CG2 VAL D 133     130.127  96.977  36.299  1.00 39.30      DS4
ATOM  37107  C   VAL D 133     133.415  95.764  37.839  1.00 39.53      DS4
ATOM  37108  O   VAL D 133     133.993  96.770  38.246  1.00 39.53      DS4
ATOM  37109  N   ASP D 134     134.052  94.621  37.613  1.00 43.47      DS4
ATOM  37110  CA  ASP D 134     135.493  94.507  37.844  1.00 43.47      DS4
ATOM  37111  CB  ASP D 134     135.799  93.162  38.488  1.00 92.72      DS4
ATOM  37112  CG  ASP D 134     135.045  92.037  37.834  1.00 92.72      DS4
ATOM  37113  OD1 ASP D 134     133.802  92.043  37.914  1.00 92.72      DS4
ATOM  37114  OD2 ASP D 134     135.685  91.154  37.231  1.00 92.72      DS4
ATOM  37115  C   ASP D 134     136.298  94.653  36.553  1.00 43.47      DS4
ATOM  37116  O   ASP D 134     137.342  94.030  36.384  1.00 43.47      DS4
ATOM  37117  N   LEU D 135     135.823  95.504  35.655  1.00 47.92      DS4
ATOM  37118  CA  LEU D 135     136.487  95.687  34.376  1.00 47.92      DS4
ATOM  37119  CB  LEU D 135     135.535  95.250  33.260  1.00 41.15      DS4
ATOM  37120  CG  LEU D 135     134.989  93.833  33.471  1.00 41.15      DS4
ATOM  37121  CD1 LEU D 135     133.859  93.562  32.534  1.00 41.15      DS4
ATOM  37122  CD2 LEU D 135     136.089  92.826  33.270  1.00 41.15      DS4
ATOM  37123  C   LEU D 135     136.939  97.122  34.156  1.00 47.92      DS4
ATOM  37124  O   LEU D 135     136.174  97.961  33.700  1.00 47.92      DS4
ATOM  37125  N   PRO D 136     138.206  97.411  34.451  1.00 39.20      DS4
ATOM  37126  CD  PRO D 136     139.269  96.423  34.678  1.00 42.65      DS4
ATOM  37127  CA  PRO D 136     138.765  98.751  34.290  1.00 39.20      DS4
ATOM  37128  CB  PRO D 136     140.261  98.510  34.336  1.00 42.65      DS4
ATOM  37129  CG  PRO D 136     140.387  97.284  35.172  1.00 42.65      DS4
ATOM  37130  C   PRO D 136     138.353  99.335  32.962  1.00 39.20      DS4
ATOM  37131  O   PRO D 136     137.862 100.457  32.894  1.00 39.20      DS4
ATOM  37132  N   SER D 137     138.560  98.553  31.908  1.00 48.70      DS4
ATOM  37133  CA  SER D 137     138.243  98.946  30.538  1.00 48.70      DS4
ATOM  37134  CB  SER D 137     138.888  97.958  29.562  1.00 56.76      DS4
ATOM  37135  OG  SER D 137     138.651  96.613  29.960  1.00 56.76      DS4
ATOM  37136  C   SER D 137     136.748  99.046  30.258  1.00 48.70      DS4
ATOM  37137  O   SER D 137     136.340  99.272  29.120  1.00 48.70      DS4
ATOM  37138  N   TYR D 138     135.929  98.864  31.287  1.00 30.15      DS4
ATOM  37139  CA  TYR D 138     134.488  98.971  31.120  1.00 30.15      DS4
ATOM  37140  CB  TYR D 138     133.788  98.682  32.454  1.00 50.91      DS4
ATOM  37141  CG  TYR D 138     132.278  98.754  32.412  1.00 50.91      DS4
ATOM  37142  CD1 TYR D 138     131.503  97.593  32.419  1.00 50.91      DS4
ATOM  37143  CE1 TYR D 138     130.101  97.649  32.405  1.00 50.91      DS4
ATOM  37144  CD2 TYR D 138     131.619  99.982  32.382  1.00 50.91      DS4
ATOM  37145  CE2 TYR D 138     130.217 100.051  32.363  1.00 50.91      DS4
ATOM  37146  CZ  TYR D 138     129.466  98.879  32.379  1.00 50.91      DS4
ATOM  37147  OH  TYR D 138     128.091  98.945  32.400  1.00 50.91      DS4
ATOM  37148  C   TYR D 138     134.151 100.399  30.642  1.00 30.15      DS4
ATOM  37149  O   TYR D 138     134.631 101.394  31.205  1.00 30.15      DS4
ATOM  37150  N   ARG D 139     133.337 100.508  29.599  1.00 47.71      DS4
ATOM  37151  CA  ARG D 139     132.967 101.825  29.101  1.00 47.71      DS4
ATOM  37152  CB  ARG D 139     132.764 101.814  27.596  1.00 43.20      DS4
ATOM  37153  CG  ARG D 139     132.223 103.122  27.059  1.00 43.20      DS4
ATOM  37154  CD  ARG D 139     132.244 103.139  25.544  1.00 43.20      DS4
ATOM  37155  NE  ARG D 139     133.592 102.904  25.038  1.00 43.20      DS4
ATOM  37156  CZ  ARG D 139     133.870 102.673  23.763  1.00 43.20      DS4
ATOM  37157  NH1 ARG D 139     132.889 102.653  22.870  1.00 43.20      DS4
ATOM  37158  NH2 ARG D 139     135.118 102.439  23.389  1.00 43.20      DS4
ATOM  37159  C   ARG D 139     131.688 102.281  29.745  1.00 47.71      DS4
ATOM  37160  O   ARG D 139     130.698 101.553  29.753  1.00 47.71      DS4
ATOM  37161  N   VAL D 140     131.703 103.496  30.275  1.00 38.26      DS4
ATOM  37162  CA  VAL D 140     130.524 104.034  30.930  1.00 38.26      DS4
ATOM  37163  CB  VAL D 140     130.902 104.951  32.108  1.00 38.52      DS4
ATOM  37164  CG1 VAL D 140     129.674 105.294  32.917  1.00 38.52      DS4
ATOM  37165  CG2 VAL D 140     131.942 104.262  32.977  1.00 38.52      DS4
ATOM  37166  C   VAL D 140     129.714 104.828  29.933  1.00 38.26      DS4
ATOM  37167  O   VAL D 140     130.255 105.627  29.176  1.00 38.26      DS4
ATOM  37168  N   ARG D 141     128.414 104.567  29.925  1.00 49.42      DS4
ATOM  37169  CA  ARG D 141     127.478 105.257  29.057  1.00 49.42      DS4
ATOM  37170  CB  ARG D 141     126.305 104.332  28.729  1.00200.56      DS4
ATOM  37171  CG  ARG D 141     126.769 103.020  28.110  1.00200.56      DS4
ATOM  37172  CD  ARG D 141     125.641 102.033  27.874  1.00200.56      DS4
ATOM  37173  NE  ARG D 141     126.161 100.756  27.384  1.00200.56      DS4
ATOM  37174  CZ  ARG D 141     125.410  99.702  27.075  1.00200.56      DS4
ATOM  37175  NH1 ARG D 141     124.091  99.764  27.202  1.00200.56      DS4
ATOM  37176  NH2 ARG D 141     125.977  98.583  26.640  1.00200.56      DS4
ATOM  37177  C   ARG D 141     127.030 106.467  29.867  1.00 49.42      DS4
ATOM  37178  O   ARG D 141     127.391 106.616  31.030  1.00 49.42      DS4
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ATOM  37179  N   PRO D 142     126.253 107.357  29.264  1.00 40.84      DS4
ATOM  37180  CD  PRO D 142     126.144 107.592  27.824  1.00 45.09      DS4
ATOM  37181  CA  PRO D 142     125.808 108.536  30.007  1.00 40.84      DS4
ATOM  37182  CB  PRO D 142     125.543 109.554  28.906  1.00 45.09      DS4
ATOM  37183  CG  PRO D 142     126.381 109.055  27.770  1.00 45.09      DS4
ATOM  37184  C   PRO D 142     124.571 108.303  30.865  1.00 40.84      DS4
ATOM  37185  O   PRO D 142     123.496 107.992  30.352  1.00 40.84      DS4
ATOM  37186  N   GLY D 143     124.725 108.473  32.172  1.00 64.21      DS4
ATOM  37187  CA  GLY D 143     123.601 108.284  33.068  1.00 64.21      DS4
ATOM  37188  C   GLY D 143     123.863 107.182  34.065  1.00 64.21      DS4
ATOM  37189  O   GLY D 143     123.103 106.978  35.010  1.00 64.21      DS4
ATOM  37190  N   ASP D 144     124.948 106.458  33.848  1.00 57.41      DS4
ATOM  37191  CA  ASP D 144     125.296 105.386  34.747  1.00 57.41      DS4
ATOM  37192  CB  ASP D 144     126.400 104.541  34.131  1.00 99.79      DS4
ATOM  37193  CG  ASP D 144     126.019 104.016  32.775  1.00 99.79      DS4
ATOM  37194  OD1 ASP D 144     124.910 103.459  32.646  1.00 99.79      DS4
ATOM  37195  OD2 ASP D 144     126.823 104.160  31.837  1.00 99.79      DS4
ATOM  37196  C   ASP D 144     125.743 105.960  36.087  1.00 57.41      DS4
ATOM  37197  O   ASP D 144     126.358 107.033  36.143  1.00 57.41      DS4
ATOM  37198  N   GLU D 145     125.406 105.243  37.162  1.00 54.43      DS4
ATOM  37199  CA  GLU D 145     125.766 105.646  38.513  1.00 54.43      DS4
ATOM  37200  CB  GLU D 145     124.601 105.405  39.481  1.00200.96      DS4
ATOM  37201  CG  GLU D 145     123.388 106.300  39.251  1.00200.96      DS4
ATOM  37202  CD  GLU D 145     122.293 106.087  40.286  1.00200.96      DS4
ATOM  37203  OE1 GLU D 145     121.758 104.962  40.367  1.00200.96      DS4
ATOM  37204  OE2 GLU D 145     121.967 107.044  41.022  1.00200.96      DS4
ATOM  37205  C   GLU D 145     126.970 104.836  38.954  1.00 54.43      DS4
ATOM  37206  O   GLU D 145     126.875 103.629  39.178  1.00 54.43      DS4
ATOM  37207  N   ILE D 146     128.111 105.501  39.057  1.00 44.95      DS4
ATOM  37208  CA  ILE D 146     129.334 104.844  39.485  1.00 44.95      DS4
ATOM  37209  CB  ILE D 146     130.574 105.458  38.818  1.00 59.99      DS4
ATOM  37210  CG2 ILE D 146     131.828 104.859  39.422  1.00 59.99      DS4
ATOM  37211  CG1 ILE D 146     130.554 105.188  37.313  1.00 59.99      DS4
ATOM  37212  CD1 ILE D 146     129.355 105.747  36.590  1.00 59.99      DS4
ATOM  37213  C   ILE D 146     129.405 105.100  40.970  1.00 44.95      DS4
ATOM  37214  O   ILE D 146     129.255 106.241  41.401  1.00 44.95      DS4
ATOM  37215  N   ALA D 147     129.625 104.059  41.764  1.00 68.77      DS4
ATOM  37216  CA  ALA D 147     129.681 104.257  43.204  1.00 68.77      DS4
ATOM  37217  CB  ALA D 147     128.286 104.269  43.763  1.00 49.70      DS4
ATOM  37218  C   ALA D 147     130.496 103.209  43.917  1.00 68.77      DS4
ATOM  37219  O   ALA D 147     131.005 102.283  43.299  1.00 68.77      DS4
ATOM  37220  N   VAL D 148     130.616 103.366  45.231  1.00 68.71      DS4
ATOM  37221  CA  VAL D 148     131.353 102.411  46.046  1.00 68.71      DS4
ATOM  37222  CB  VAL D 148     131.866 103.055  47.332  1.00 47.74      DS4
ATOM  37223  CG1 VAL D 148     132.881 102.146  47.993  1.00 47.74      DS4
ATOM  37224  CG2 VAL D 148     132.466 104.415  47.020  1.00 47.74      DS4
ATOM  37225  C   VAL D 148     130.383 101.301  46.414  1.00 68.71      DS4
ATOM  37226  O   VAL D 148     129.175 101.519  46.476  1.00 68.71      DS4
ATOM  37227  N   ALA D 149     130.902 100.110  46.658  1.00 50.23      DS4
ATOM  37228  CA  ALA D 149     130.035  98.995  46.996  1.00 50.23      DS4
ATOM  37229  CB  ALA D 149     130.630  97.699  46.473  1.00160.26      DS4
ATOM  37230  C   ALA D 149     129.844  98.909  48.499  1.00 50.23      DS4
ATOM  37231  O   ALA D 149     130.820  98.764  49.229  1.00 50.23      DS4
ATOM  37232  N   GLU D 150     128.590  98.994  48.946  1.00 83.86      DS4
ATOM  37233  CA  GLU D 150     128.245  98.929  50.366  1.00 83.86      DS4
ATOM  37234  CB  GLU D 150     126.955  98.128  50.573  1.00194.22      DS4
ATOM  37235  CG  GLU D 150     125.678  98.950  50.650  1.00194.22      DS4
ATOM  37236  CD  GLU D 150     125.282  99.566  49.324  1.00194.22      DS4
ATOM  37237  OE1 GLU D 150     124.240 100.256  49.281  1.00194.22      DS4
ATOM  37238  OE2 GLU D 150     126.006  99.361  48.328  1.00194.22      DS4
ATOM  37239  C   GLU D 150     129.342  98.294  51.202  1.00 83.86      DS4
ATOM  37240  O   GLU D 150     129.971  98.945  52.040  1.00 83.86      DS4
ATOM  37241  N   LYS D 151     129.569  97.012  50.953  1.00 58.77      DS4
ATOM  37242  CA  LYS D 151     130.564  96.239  51.675  1.00 58.77      DS4
ATOM  37243  CB  LYS D 151     130.667  94.844  51.057  1.00102.09      DS4
ATOM  37244  CG  LYS D 151     129.314  94.206  50.736  1.00102.09      DS4
ATOM  37245  CD  LYS D 151     128.629  94.884  49.538  1.00102.09      DS4
ATOM  37246  CE  LYS D 151     127.279  94.244  49.207  1.00102.09      DS4
ATOM  37247  NZ  LYS D 151     126.607  94.877  48.029  1.00102.09      DS4
ATOM  37248  C   LYS D 151     131.948  96.885  51.721  1.00 58.77      DS4
ATOM  37249  O   LYS D 151     132.779  96.496  52.530  1.00 58.77      DS4
ATOM  37250  N   SER D 152     132.196  97.871  50.865  1.00 55.61      DS4
ATOM  37251  CA  SER D 152     133.495  98.542  50.816  1.00 55.61      DS4
ATOM  37252  CB  SER D 152     134.027  98.585  49.378  1.00 64.78      DS4
ATOM  37253  OG  SER D 152     134.382  97.307  48.894  1.00 64.78      DS4
ATOM  37254  C   SER D 152     133.468  99.967  51.334  1.00 55.61      DS4
ATOM  37255  O   SER D 152     134.518 100.550  51.605  1.00 55.61      DS4
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ATOM  37256  N   ARG D 153     132.274 100.535  51.461  1.00 67.53      DS4
ATOM  37257  CA  ARG D 153     132.147 101.913  51.905  1.00 67.53      DS4
ATOM  37258  CB  ARG D 153     130.672 102.317  51.972  1.00155.64      DS4
ATOM  37259  CG  ARG D 153     130.055 102.509  50.592  1.00155.64      DS4
ATOM  37260  CD  ARG D 153     128.973 103.576  50.593  1.00155.64      DS4
ATOM  37261  NE  ARG D 153     127.725 103.104  51.180  1.00155.64      DS4
ATOM  37262  CZ  ARG D 153     126.941 102.188  50.621  1.00155.64      DS4
ATOM  37263  NH1 ARG D 153     127.280 101.647  49.459  1.00155.64      DS4
ATOM  37264  NH2 ARG D 153     125.818 101.817  51.221  1.00155.64      DS4
ATOM  37265  C   ARG D 153     132.843 102.194  53.221  1.00 67.53      DS4
ATOM  37266  O   ARG D 153     133.063 103.351  53.570  1.00 67.53      DS4
ATOM  37267  N   ASN D 154     133.216 101.137  53.937  1.00 89.72      DS4
ATOM  37268  CA  ASN D 154     133.896 101.285  55.218  1.00 89.72      DS4
ATOM  37269  CB  ASN D 154     133.128 100.533  56.306  1.00186.41      DS4
ATOM  37270  CG  ASN D 154     131.737 101.091  56.527  1.00186.41      DS4
ATOM  37271  OD1 ASN D 154     131.575 102.217  57.003  1.00186.41      DS4
ATOM  37272  ND2 ASN D 154     130.723 100.308  56.177  1.00186.41      DS4
ATOM  37273  C   ASN D 154     135.322 100.761  55.146  1.00 89.72      DS4
ATOM  37274  O   ASN D 154     135.615  99.679  55.652  1.00 89.72      DS4
ATOM  37275  N   LEU D 155     136.206 101.534  54.520  1.00 66.09      DS4
ATOM  37276  CA  LEU D 155     137.613 101.154  54.373  1.00 66.09      DS4
ATOM  37277  CB  LEU D 155     137.836 100.500  53.005  1.00 74.57      DS4
ATOM  37278  CG  LEU D 155     137.267  99.083  52.862  1.00 74.57      DS4
ATOM  37279  CD1 LEU D 155     136.845  98.816  51.428  1.00 74.57      DS4
ATOM  37280  CD2 LEU D 155     138.311  98.073  53.317  1.00 74.57      DS4
ATOM  37281  C   LEU D 155     138.526 102.369  54.535  1.00 66.09      DS4
ATOM  37282  O   LEU D 155     138.264 103.433  53.969  1.00 66.09      DS4
ATOM  37283  N   GLU D 156     139.597 102.206  55.308  1.00 66.54      DS4
ATOM  37284  CA  GLU D 156     140.528 103.304  55.559  1.00 66.54      DS4
ATOM  37285  CB  GLU D 156     141.844 102.781  56.148  1.00200.82      DS4
ATOM  37286  CG  GLU D 156     142.795 103.894  56.589  1.00200.82      DS4
ATOM  37287  CD  GLU D 156     144.073 103.378  57.233  1.00200.82      DS4
ATOM  37288  OE1 GLU D 156     144.857 102.692  56.544  1.00200.82      DS4
ATOM  37289  OE2 GLU D 156     144.295 103.661  58.431  1.00200.82      DS4
ATOM  37290  C   GLU D 156     140.821 104.117  54.305  1.00 66.54      DS4
ATOM  37291  O   GLU D 156     140.853 105.347  54.364  1.00 66.54      DS4
ATOM  37292  N   LEU D 157     141.021 103.424  53.180  1.00 59.18      DS4
ATOM  37293  CA  LEU D 157     141.326 104.063  51.901  1.00 59.18      DS4
ATOM  37294  CB  LEU D 157     141.766 103.027  50.862  1.00 64.64      DS4
ATOM  37295  CG  LEU D 157     142.715 103.504  49.743  1.00 64.64      DS4
ATOM  37296  CD1 LEU D 157     142.686 102.500  48.599  1.00 64.64      DS4
ATOM  37297  CD2 LEU D 157     142.322 104.876  49.226  1.00 64.64      DS4
ATOM  37298  C   LEU D 157     140.115 104.797  51.368  1.00 59.18      DS4
ATOM  37299  O   LEU D 157     140.168 106.000  51.119  1.00 59.18      DS4
ATOM  37300  N   ILE D 158     139.022 104.073  51.175  1.00 62.23      DS4
ATOM  37301  CA  ILE D 158     137.818 104.710  50.670  1.00 62.23      DS4
ATOM  37302  CB  ILE D 158     136.619 103.740  50.661  1.00 93.03      DS4
ATOM  37303  CG2 ILE D 158     135.360 104.473  50.219  1.00 93.03      DS4
ATOM  37304  CG1 ILE D 158     136.899 102.573  49.711  1.00 93.03      DS4
ATOM  37305  CD1 ILE D 158     137.030 102.981  48.257  1.00 93.03      DS4
ATOM  37306  C   ILE D 158     137.476 105.918  51.534  1.00 62.23      DS4
ATOM  37307  O   ILE D 158     137.104 106.970  51.020  1.00 62.23      DS4
ATOM  37308  N   ARG D 159     137.619 105.772  52.850  1.00 71.61      DS4
ATOM  37309  CA  ARG D 159     137.318 106.868  53.759  1.00 71.61      DS4
ATOM  37310  CB  ARG D 159     137.510 106.430  55.212  1.00200.96      DS4
ATOM  37311  CG  ARG D 159     136.289 105.724  55.778  1.00200.96      DS4
ATOM  37312  CD  ARG D 159     135.059 106.609  55.602  1.00200.96      DS4
ATOM  37313  NE  ARG D 159     133.807 105.927  55.915  1.00200.96      DS4
ATOM  37314  CZ  ARG D 159     132.601 106.448  55.702  1.00200.96      DS4
ATOM  37315  NH1 ARG D 159     132.484 107.661  55.175  1.00200.96      DS4
ATOM  37316  NH2 ARG D 159     131.511 105.758  56.015  1.00200.96      DS4
ATOM  37317  C   ARG D 159     138.152 108.102  53.463  1.00 71.61      DS4
ATOM  37318  O   ARG D 159     137.603 109.161  53.165  1.00 71.61      DS4
ATOM  37319  N   GLN D 160     139.474 107.966  53.536  1.00 68.26      DS4
ATOM  37320  CA  GLN D 160     140.372 109.088  53.267  1.00 68.26      DS4
ATOM  37321  CB  GLN D 160     141.828 108.629  53.242  1.00138.02      DS4
ATOM  37322  CG  GLN D 160     142.399 108.236  54.581  1.00138.02      DS4
ATOM  37323  CD  GLN D 160     143.895 108.012  54.509  1.00138.02      DS4
ATOM  37324  OE1 GLN D 160     144.650 108.915  54.147  1.00138.02      DS4
ATOM  37325  NE2 GLN D 160     144.333 106.805  54.851  1.00138.02      DS4
ATOM  37326  C   GLN D 160     140.063 109.766  51.942  1.00 68.26      DS4
ATOM  37327  O   GLN D 160     140.018 110.993  51.868  1.00 68.26      DS4
ATOM  37328  N   ASN D 161     139.860 108.961  50.899  1.00 70.71      DS4
ATOM  37329  CA  ASN D 161     139.569 109.475  49.563  1.00 70.71      DS4
ATOM  37330  CB  ASN D 161     139.533 108.328  48.552  1.00 76.30      DS4
ATOM  37331  CG  ASN D 161     140.912 107.802  48.216  1.00 76.30      DS4
ATOM  37332  OD1 ASN D 161     141.921 108.278  48.751  1.00 76.30      DS4
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ATOM  37333  ND2 ASN D 161     140.967 106.814  47.323  1.00 76.30       DS4
ATOM  37334  C   ASN D 161     138.270 110.269  49.463  1.00 70.71       DS4
ATOM  37335  O   ASN D 161     138.290 111.491  49.291  1.00 70.71       DS4
ATOM  37336  N   LEU D 162     137.141 109.573  49.551  1.00 82.81       DS4
ATOM  37337  CA  LEU D 162     135.839 110.222  49.472  1.00 82.81       DS4
ATOM  37338  CB  LEU D 162     134.736 109.218  49.792  1.00 64.85       DS4
ATOM  37339  CG  LEU D 162     134.014 108.611  48.589  1.00 64.85       DS4
ATOM  37340  CD1 LEU D 162     132.727 109.365  48.362  1.00 64.85       DS4
ATOM  37341  CD2 LEU D 162     134.901 108.654  47.343  1.00 64.85       DS4
ATOM  37342  C   LEU D 162     135.750 111.405  50.419  1.00 82.81       DS4
ATOM  37343  O   LEU D 162     135.012 112.362  50.170  1.00 82.81       DS4
ATOM  37344  N   GLU D 163     136.503 111.335  51.512  1.00 85.56       DS4
ATOM  37345  CA  GLU D 163     136.505 112.419  52.475  1.00 85.56       DS4
ATOM  37346  CB  GLU D 163     137.423 112.095  53.654  1.00177.39       DS4
ATOM  37347  CG  GLU D 163     137.442 113.174  54.724  1.00177.39       DS4
ATOM  37348  CD  GLU D 163     136.068 113.436  55.322  1.00177.39       DS4
ATOM  37349  OE1 GLU D 163     135.953 114.345  56.171  1.00177.39       DS4
ATOM  37350  OE2 GLU D 163     135.103 112.735  54.947  1.00177.39       DS4
ATOM  37351  C   GLU D 163     137.008 113.653  51.752  1.00 85.56       DS4
ATOM  37352  O   GLU D 163     136.255 114.588  51.489  1.00 85.56       DS4
ATOM  37353  N   ALA D 164     138.285 113.634  51.406  1.00 60.55       DS4
ATOM  37354  CA  ALA D 164     138.902 114.755  50.721  1.00 60.55       DS4
ATOM  37355  CB  ALA D 164     140.225 114.328  50.137  1.00 60.30       DS4
ATOM  37356  C   ALA D 164     138.015 115.323  49.626  1.00 60.55       DS4
ATOM  37357  O   ALA D 164     138.200 116.454  49.193  1.00 60.55       DS4
ATOM  37358  N   MET D 165     137.040 114.555  49.172  1.00 55.30       DS4
ATOM  37359  CA  MET D 165     136.198 115.064  48.111  1.00 55.30       DS4
ATOM  37360  CB  MET D 165     135.538 113.919  47.335  1.00 79.29       DS4
ATOM  37361  CG  MET D 165     136.493 113.206  46.368  1.00 79.29       DS4
ATOM  37362  SD  MET D 165     137.393 114.345  45.260  1.00 79.29       DS4
ATOM  37363  CE  MET D 165     136.052 114.930  44.235  1.00 79.29       DS4
ATOM  37364  C   MET D 165     135.158 116.035  48.601  1.00 55.30       DS4
ATOM  37365  O   MET D 165     134.434 116.623  47.798  1.00 55.30       DS4
ATOM  37366  N   LYS D 166     135.070 116.203  49.916  1.00 69.29       DS4
ATOM  37367  CA  LYS D 166     134.111 117.153  50.471  1.00 69.29       DS4
ATOM  37368  CB  LYS D 166     133.989 117.004  51.987  1.00121.29       DS4
ATOM  37369  CG  LYS D 166     133.051 115.898  52.431  1.00121.29       DS4
ATOM  37370  CD  LYS D 166     132.861 115.920  53.941  1.00121.29       DS4
ATOM  37371  CE  LYS D 166     131.775 114.952  54.385  1.00121.29       DS4
ATOM  37372  NZ  LYS D 166     131.479 115.087  55.839  1.00121.29       DS4
ATOM  37373  C   LYS D 166     134.647 118.529  50.131  1.00 69.29       DS4
ATOM  37374  O   LYS D 166     135.790 118.854  50.461  1.00 69.29       DS4
ATOM  37375  N   GLY D 167     133.832 119.322  49.447  1.00 84.34       DS4
ATOM  37376  CA  GLY D 167     134.256 120.656  49.069  1.00 84.34       DS4
ATOM  37377  C   GLY D 167     135.007 120.686  47.754  1.00 84.34       DS4
ATOM  37378  O   GLY D 167     135.098 121.734  47.111  1.00 84.34       DS4
ATOM  37379  N   ARG D 168     135.553 119.538  47.360  1.00 64.31       DS4
ATOM  37380  CA  ARG D 168     136.292 119.416  46.106  1.00 64.31       DS4
ATOM  37381  CB  ARG D 168     137.158 118.156  46.153  1.00135.09       DS4
ATOM  37382  CG  ARG D 168     138.383 118.186  45.259  1.00135.09       DS4
ATOM  37383  CD  ARG D 168     139.299 117.009  45.579  1.00135.09       DS4
ATOM  37384  NE  ARG D 168     140.585 117.096  44.894  1.00135.09       DS4
ATOM  37385  CZ  ARG D 168     141.587 116.240  45.071  1.00135.09       DS4
ATOM  37386  NH1 ARG D 168     141.459 115.221  45.917  1.00135.09       DS4
ATOM  37387  NH2 ARG D 168     142.725 116.408  44.408  1.00135.09       DS4
ATOM  37388  C   ARG D 168     135.258 119.322  44.979  1.00 64.31       DS4
ATOM  37389  O   ARG D 168     134.319 118.529  45.057  1.00 64.31       DS4
ATOM  37390  N   LYS D 169     135.401 120.142  43.945  1.00 57.92       DS4
ATOM  37391  CA  LYS D 169     134.440 120.091  42.854  1.00 57.92       DS4
ATOM  37392  CB  LYS D 169     134.252 121.475  42.233  1.00 94.57       DS4
ATOM  37393  CG  LYS D 169     133.172 121.512  41.160  1.00 94.57       DS4
ATOM  37394  CD  LYS D 169     132.579 122.906  40.984  1.00 94.57       DS4
ATOM  37395  CE  LYS D 169     131.845 123.368  42.246  1.00 94.57       DS4
ATOM  37396  NZ  LYS D 169     131.109 124.655  42.053  1.00 94.57       DS4
ATOM  37397  C   LYS D 169     134.902 119.090  41.802  1.00 57.92       DS4
ATOM  37398  O   LYS D 169     136.082 118.730  41.755  1.00 57.92       DS4
ATOM  37399  N   VAL D 170     133.976 118.627  40.964  1.00 68.52       DS4
ATOM  37400  CA  VAL D 170     134.324 117.654  39.935  1.00 68.52       DS4
ATOM  37401  CB  VAL D 170     133.696 116.273  40.265  1.00 82.86       DS4
ATOM  37402  CG1 VAL D 170     132.197 116.295  39.999  1.00 82.86       DS4
ATOM  37403  CG2 VAL D 170     134.380 115.185  39.461  1.00 82.86       DS4
ATOM  37404  C   VAL D 170     133.921 118.079  38.510  1.00 68.52       DS4
ATOM  37405  O   VAL D 170     133.102 118.986  38.323  1.00 68.52       DS4
ATOM  37406  N   GLY D 171     134.519 117.413  37.519  1.00 58.66       DS4
ATOM  37407  CA  GLY D 171     134.248 117.692  36.120  1.00 58.66       DS4
ATOM  37408  C   GLY D 171     132.803 118.031  35.812  1.00 58.66       DS4
ATOM  37409  O   GLY D 171     131.881 117.407  36.330  1.00 58.66       DS4
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ATOM  37410  N   PRO D 172     132.574 119.036  34.964  1.00 53.41      DS4
ATOM  37411  CD  PRO D 172     133.578 119.936  34.383  1.00 36.46      DS4
ATOM  37412  CA  PRO D 172     131.225 119.457  34.590  1.00 53.41      DS4
ATOM  37413  CB  PRO D 172     131.470 120.730  33.798  1.00 36.46      DS4
ATOM  37414  CG  PRO D 172     132.825 120.512  33.234  1.00 36.46      DS4
ATOM  37415  C   PRO D 172     130.449 118.432  33.793  1.00 53.41      DS4
ATOM  37416  O   PRO D 172     129.355 118.715  33.322  1.00 53.41      DS4
ATOM  37417  N   TRP D 173     131.021 117.247  33.625  1.00 41.09      DS4
ATOM  37418  CA  TRP D 173     130.356 116.175  32.894  1.00 41.09      DS4
ATOM  37419  CB  TRP D 173     131.235 115.670  31.723  1.00 40.13      DS4
ATOM  37420  CG  TRP D 173     132.489 114.911  32.114  1.00 40.13      DS4
ATOM  37421  CD2 TRP D 173     133.786 115.465  32.368  1.00 40.13      DS4
ATOM  37422  CE2 TRP D 173     134.629 114.399  32.745  1.00 40.13      DS4
ATOM  37423  CE3 TRP D 173     134.315 116.764  32.318  1.00 40.13      DS4
ATOM  37424  CD1 TRP D 173     132.600 113.573  32.335  1.00 40.13      DS4
ATOM  37425  NE1 TRP D 173     133.882 113.256  32.715  1.00 40.13      DS4
ATOM  37426  CZ2 TRP D 173     135.972 114.585  33.070  1.00 40.13      DS4
ATOM  37427  CZ3 TRP D 173     135.650 116.956  32.640  1.00 40.13      DS4
ATOM  37428  CH2 TRP D 173     136.467 115.868  33.014  1.00 40.13      DS4
ATOM  37429  C   TRP D 173     130.133 115.085  33.916  1.00 41.09      DS4
ATOM  37430  O   TRP D 173     129.694 113.990  33.598  1.00 41.09      DS4
ATOM  37431  N   LEU D 174     130.439 115.413  35.161  1.00 71.28      DS4
ATOM  37432  CA  LEU D 174     130.290 114.476  36.253  1.00 71.28      DS4
ATOM  37433  CB  LEU D 174     131.652 113.940  36.670  1.00 48.07      DS4
ATOM  37434  CG  LEU D 174     132.410 113.169  35.605  1.00 48.07      DS4
ATOM  37435  CD1 LEU D 174     133.757 112.773  36.158  1.00 48.07      DS4
ATOM  37436  CD2 LEU D 174     131.612 111.934  35.197  1.00 48.07      DS4
ATOM  37437  C   LEU D 174     129.648 115.135  37.451  1.00 71.28      DS4
ATOM  37438  O   LEU D 174     129.865 116.317  37.723  1.00 71.28      DS4
ATOM  37439  N   SER D 175     128.853 114.360  38.170  1.00 52.05      DS4
ATOM  37440  CA  SER D 175     128.207 114.855  39.366  1.00 52.05      DS4
ATOM  37441  CB  SER D 175     126.696 114.886  39.172  1.00 63.86      DS4
ATOM  37442  OG  SER D 175     126.173 113.575  39.150  1.00 63.86      DS4
ATOM  37443  C   SER D 175     128.575 113.880  40.477  1.00 52.05      DS4
ATOM  37444  O   SER D 175     128.522 112.669  40.285  1.00 52.05      DS4
ATOM  37445  N   LEU D 176     128.966 114.394  41.633  1.00 77.70      DS4
ATOM  37446  CA  LEU D 176     129.326 113.514  42.729  1.00 77.70      DS4
ATOM  37447  CB  LEU D 176     130.732 113.844  43.231  1.00 34.02      DS4
ATOM  37448  CG  LEU D 176     131.300 112.991  44.377  1.00 34.02      DS4
ATOM  37449  CD1 LEU D 176     131.378 111.535  43.965  1.00 34.02      DS4
ATOM  37450  CD2 LEU D 176     132.688 113.490  44.761  1.00 34.02      DS4
ATOM  37451  C   LEU D 176     128.324 113.610  43.874  1.00 77.70      DS4
ATOM  37452  O   LEU D 176     127.427 114.451  43.873  1.00 77.70      DS4
ATOM  37453  N   ASP D 177     128.488 112.726  44.846  1.00 79.32      DS4
ATOM  37454  CA  ASP D 177     127.632 112.658  46.019  1.00 79.32      DS4
ATOM  37455  CB  ASP D 177     126.464 111.708  45.740  1.00 81.96      DS4
ATOM  37456  CG  ASP D 177     125.442 111.679  46.859  1.00 81.96      DS4
ATOM  37457  OD1 ASP D 177     125.828 111.414  48.017  1.00 81.96      DS4
ATOM  37458  OD2 ASP D 177     124.246 111.911  46.569  1.00 81.96      DS4
ATOM  37459  C   ASP D 177     128.536 112.097  47.113  1.00 79.32      DS4
ATOM  37460  O   ASP D 177     128.394 110.948  47.527  1.00 79.32      DS4
ATOM  37461  N   VAL D 178     129.482 112.916  47.558  1.00 60.71      DS4
ATOM  37462  CA  VAL D 178     130.427 112.503  48.582  1.00 60.71      DS4
ATOM  37463  CB  VAL D 178     131.152 113.720  49.169  1.00 92.56      DS4
ATOM  37464  CG1 VAL D 178     132.240 113.266  50.135  1.00 92.56      DS4
ATOM  37465  CG2 VAL D 178     131.749 114.545  48.047  1.00 92.56      DS4
ATOM  37466  C   VAL D 178     129.771 111.717  49.716  1.00 60.71      DS4
ATOM  37467  O   VAL D 178     130.243 110.643  50.100  1.00 60.71      DS4
ATOM  37468  N   GLU D 179     128.682 112.256  50.248  1.00 74.07      DS4
ATOM  37469  CA  GLU D 179     127.954 111.618  51.337  1.00 74.07      DS4
ATOM  37470  CB  GLU D 179     126.703 112.441  51.669  1.00200.96      DS4
ATOM  37471  CG  GLU D 179     125.885 112.904  50.458  1.00200.96      DS4
ATOM  37472  CD  GLU D 179     126.494 114.099  49.727  1.00200.96      DS4
ATOM  37473  OE1 GLU D 179     127.574 113.960  49.115  1.00200.96      DS4
ATOM  37474  OE2 GLU D 179     125.884 115.189  49.764  1.00200.96      DS4
ATOM  37475  C   GLU D 179     127.566 110.153  51.068  1.00 74.07      DS4
ATOM  37476  O   GLU D 179     127.906 109.258  51.849  1.00 74.07      DS4
ATOM  37477  N   GLY D 180     126.860 109.912  49.967  1.00118.12      DS4
ATOM  37478  CA  GLY D 180     126.444 108.559  49.640  1.00118.12      DS4
ATOM  37479  C   GLY D 180     127.458 107.779  48.823  1.00118.12      DS4
ATOM  37480  O   GLY D 180     127.266 106.593  48.558  1.00118.12      DS4
ATOM  37481  N   MET D 181     128.538 108.447  48.426  1.00 77.27      DS4
ATOM  37482  CA  MET D 181     129.591 107.828  47.630  1.00 77.27      DS4
ATOM  37483  CB  MET D 181     130.209 106.659  48.398  1.00 69.16      DS4
ATOM  37484  CG  MET D 181     130.681 107.039  49.793  1.00 69.16      DS4
ATOM  37485  SD  MET D 181     131.716 105.797  50.586  1.00 69.16      DS4
ATOM  37486  CE  MET D 181     133.157 106.741  50.982  1.00 69.16      DS4
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ATOM  37487  C   MET D 181     129.060 107.359  46.275  1.00 77.27      DS4
ATOM  37488  O   MET D 181     129.524 106.367  45.709  1.00 77.27      DS4
ATOM  37489  N   LYS D 182     128.075 108.093  45.769  1.00 55.99      DS4
ATOM  37490  CA  LYS D 182     127.452 107.824  44.481  1.00 55.99      DS4
ATOM  37491  CB  LYS D 182     125.933 107.991  44.572  1.00113.92      DS4
ATOM  37492  CG  LYS D 182     125.281 107.302  45.753  1.00113.92      DS4
ATOM  37493  CD  LYS D 182     123.847 107.790  45.973  1.00113.92      DS4
ATOM  37494  CE  LYS D 182     122.913 107.412  44.827  1.00113.92      DS4
ATOM  37495  NZ  LYS D 182     123.258 108.075  43.537  1.00113.92      DS4
ATOM  37496  C   LYS D 182     127.994 108.882  43.521  1.00 55.99      DS4
ATOM  37497  O   LYS D 182     128.234 110.025  43.912  1.00 55.99      DS4
ATOM  37498  N   GLY D 183     128.185 108.498  42.267  1.00 70.69      DS4
ATOM  37499  CA  GLY D 183     128.675 109.433  41.273  1.00 70.69      DS4
ATOM  37500  C   GLY D 183     127.882 109.230  40.002  1.00 70.69      DS4
ATOM  37501  O   GLY D 183     127.395 108.130  39.741  1.00 70.69      DS4
ATOM  37502  N   LYS D 184     127.741 110.273  39.199  1.00 50.96      DS4
ATOM  37503  CA  LYS D 184     126.986 110.122  37.977  1.00 50.96      DS4
ATOM  37504  CB  LYS D 184     125.634 110.804  38.133  1.00 69.44      DS4
ATOM  37505  CG  LYS D 184     124.554 110.210  37.269  1.00 69.44      DS4
ATOM  37506  CD  LYS D 184     123.204 110.349  37.942  1.00 69.44      DS4
ATOM  37507  CE  LYS D 184     122.151 109.488  37.268  1.00 69.44      DS4
ATOM  37508  NZ  LYS D 184     120.914 109.402  38.100  1.00 69.44      DS4
ATOM  37509  C   LYS D 184     127.728 110.672  36.765  1.00 50.96      DS4
ATOM  37510  O   LYS D 184     128.206 111.810  36.785  1.00 50.96      DS4
ATOM  37511  N   PHE D 185     127.838 109.840  35.724  1.00 47.87      DS4
ATOM  37512  CA  PHE D 185     128.495 110.209  34.470  1.00 47.87      DS4
ATOM  37513  CB  PHE D 185     128.952 108.959  33.733  1.00 56.41      DS4
ATOM  37514  CG  PHE D 185     129.798 109.241  32.533  1.00 56.41      DS4
ATOM  37515  CD1 PHE D 185     131.157 109.500  32.671  1.00 56.41      DS4
ATOM  37516  CD2 PHE D 185     129.234 109.270  31.260  1.00 56.41      DS4
ATOM  37517  CE1 PHE D 185     131.943 109.785  31.559  1.00 56.41      DS4
ATOM  37518  CE2 PHE D 185     130.011 109.555  30.142  1.00 56.41      DS4
ATOM  37519  CZ  PHE D 185     131.369 109.813  30.294  1.00 56.41      DS4
ATOM  37520  C   PHE D 185     127.460 110.953  33.625  1.00 47.87      DS4
ATOM  37521  O   PHE D 185     126.726 110.353  32.840  1.00 47.87      DS4
ATOM  37522  N   LEU D 186     127.418 112.269  33.805  1.00 46.46      DS4
ATOM  37523  CA  LEU D 186     126.475 113.148  33.132  1.00 46.46      DS4
ATOM  37524  CB  LEU D 186     126.638 114.565  33.677  1.00 57.39      DS4
ATOM  37525  CG  LEU D 186     126.425 114.653  35.193  1.00 57.39      DS4
ATOM  37526  CD1 LEU D 186     127.068 115.899  35.765  1.00 57.39      DS4
ATOM  37527  CD2 LEU D 186     124.938 114.622  35.487  1.00 57.39      DS4
ATOM  37528  C   LEU D 186     126.566 113.171  31.623  1.00 46.46      DS4
ATOM  37529  O   LEU D 186     125.582 112.889  30.939  1.00 46.46      DS4
ATOM  37530  N   ARG D 187     127.743 113.506  31.101  1.00 69.37      DS4
ATOM  37531  CA  ARG D 187     127.947 113.592  29.657  1.00 69.37      DS4
ATOM  37532  CB  ARG D 187     127.621 115.017  29.193  1.00200.96      DS4
ATOM  37533  CG  ARG D 187     128.046 115.356  27.772  1.00200.96      DS4
ATOM  37534  CD  ARG D 187     127.020 114.915  26.740  1.00200.96      DS4
ATOM  37535  NE  ARG D 187     126.701 113.493  26.821  1.00200.96      DS4
ATOM  37536  CZ  ARG D 187     125.854 112.874  26.005  1.00200.96      DS4
ATOM  37537  NH1 ARG D 187     125.239 113.550  25.043  1.00200.96      DS4
ATOM  37538  NH2 ARG D 187     125.614 111.580  26.152  1.00200.96      DS4
ATOM  37539  C   ARG D 187     129.378 113.246  29.239  1.00 69.37      DS4
ATOM  37540  O   ARG D 187     130.301 113.238  30.063  1.00 69.37      DS4
ATOM  37541  N   LEU D 188     129.555 112.942  27.956  1.00 46.70      DS4
ATOM  37542  CA  LEU D 188     130.889 112.666  27.437  1.00 46.70      DS4
ATOM  37543  CB  LEU D 188     130.824 112.211  25.976  1.00 45.09      DS4
ATOM  37544  CG  LEU D 188     130.456 110.744  25.723  1.00 45.09      DS4
ATOM  37545  CD1 LEU D 188     130.007 110.550  24.283  1.00 45.09      DS4
ATOM  37546  CD2 LEU D 188     131.649 109.860  26.056  1.00 45.09      DS4
ATOM  37547  C   LEU D 188     131.595 114.009  27.526  1.00 46.70      DS4
ATOM  37548  O   LEU D 188     131.095 115.017  27.024  1.00 46.70      DS4
ATOM  37549  N   PRO D 189     132.761 114.047  28.174  1.00 45.71      DS4
ATOM  37550  CD  PRO D 189     133.643 112.929  28.528  1.00 39.79      DS4
ATOM  37551  CA  PRO D 189     133.477 115.316  28.293  1.00 45.71      DS4
ATOM  37552  CB  PRO D 189     134.737 114.932  29.048  1.00 39.79      DS4
ATOM  37553  CG  PRO D 189     135.014 113.602  28.495  1.00 39.79      DS4
ATOM  37554  C   PRO D 189     133.792 115.903  26.937  1.00 45.71      DS4
ATOM  37555  O   PRO D 189     134.330 115.219  26.067  1.00 45.71      DS4
ATOM  37556  N   ASP D 190     133.424 117.170  26.770  1.00 94.02      DS4
ATOM  37557  CA  ASP D 190     133.670 117.922  25.549  1.00 94.02      DS4
ATOM  37558  CB  ASP D 190     132.846 119.216  25.582  1.00200.96      DS4
ATOM  37559  CG  ASP D 190     133.024 120.062  24.342  1.00200.96      DS4
ATOM  37560  OD1 ASP D 190     134.168 120.476  24.060  1.00200.96      DS4
ATOM  37561  OD2 ASP D 190     132.014 120.319  23.654  1.00200.96      DS4
ATOM  37562  C   ASP D 190     135.168 118.230  25.591  1.00 94.02      DS4
ATOM  37563  O   ASP D 190     135.709 118.524  26.658  1.00 94.02      DS4
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ATOM  37564  N   ARG D 191     135.840 118.142  24.447  1.00 71.02      DS4
ATOM  37565  CA  ARG D 191     137.274 118.407  24.382  1.00 71.02      DS4
ATOM  37566  CB  ARG D 191     137.698 118.644  22.931  1.00 89.27      DS4
ATOM  37567  CG  ARG D 191     139.104 119.210  22.761  1.00 89.27      DS4
ATOM  37568  CD  ARG D 191     140.143 118.528  23.648  1.00 89.27      DS4
ATOM  37569  NE  ARG D 191     141.497 118.954  23.305  1.00 89.27      DS4
ATOM  37570  CZ  ARG D 191     142.540 118.893  24.128  1.00 89.27      DS4
ATOM  37571  NH1 ARG D 191     142.392 118.427  25.359  1.00 89.27      DS4
ATOM  37572  NH2 ARG D 191     143.737 119.295  23.716  1.00 89.27      DS4
ATOM  37573  C   ARG D 191     137.663 119.600  25.241  1.00 71.02      DS4
ATOM  37574  O   ARG D 191     138.606 119.524  26.035  1.00 71.02      DS4
ATOM  37575  N   GLU D 192     136.920 120.694  25.087  1.00 94.87      DS4
ATOM  37576  CA  GLU D 192     137.177 121.918  25.840  1.00 94.87      DS4
ATOM  37577  CB  GLU D 192     136.173 123.001  25.440  1.00200.96      DS4
ATOM  37578  CG  GLU D 192     136.715 124.420  25.545  1.00200.96      DS4
ATOM  37579  CD  GLU D 192     137.845 124.688  24.562  1.00200.96      DS4
ATOM  37580  OE1 GLU D 192     138.893 124.015  24.657  1.00200.96      DS4
ATOM  37581  OE2 GLU D 192     137.683 125.569  23.691  1.00200.96      DS4
ATOM  37582  C   GLU D 192     137.104 121.673  27.347  1.00 94.87      DS4
ATOM  37583  O   GLU D 192     137.685 122.419  28.131  1.00 94.87      DS4
ATOM  37584  N   ASP D 193     136.388 120.626  27.743  1.00 84.29      DS4
ATOM  37585  CA  ASP D 193     136.256 120.277  29.151  1.00 84.29      DS4
ATOM  37586  CB  ASP D 193     135.135 119.260  29.354  1.00 76.17      DS4
ATOM  37587  CG  ASP D 193     133.772 119.854  29.135  1.00 76.17      DS4
ATOM  37588  OD1 ASP D 193     133.499 120.910  29.734  1.00 76.17      DS4
ATOM  37589  OD2 ASP D 193     132.970 119.271  28.380  1.00 76.17      DS4
ATOM  37590  C   ASP D 193     137.551 119.685  29.681  1.00 84.29      DS4
ATOM  37591  O   ASP D 193     137.892 119.865  30.849  1.00 84.29      DS4
ATOM  37592  N   LEU D 194     138.266 118.963  28.824  1.00 90.83      DS4
ATOM  37593  CA  LEU D 194     139.521 118.348  29.229  1.00 90.83      DS4
ATOM  37594  CB  LEU D 194     139.842 117.123  28.370  1.00 75.97      DS4
ATOM  37595  CG  LEU D 194     138.895 115.925  28.426  1.00 75.97      DS4
ATOM  37596  CD1 LEU D 194     138.654 115.523  29.879  1.00 75.97      DS4
ATOM  37597  CD2 LEU D 194     137.584 116.279  27.734  1.00 75.97      DS4
ATOM  37598  C   LEU D 194     140.639 119.350  29.087  1.00 90.83      DS4
ATOM  37599  O   LEU D 194     140.655 120.149  28.152  1.00 90.83      DS4
ATOM  37600  N   ALA D 195     141.576 119.305  30.021  1.00 84.17      DS4
ATOM  37601  CA  ALA D 195     142.703 120.213  29.983  1.00 84.17      DS4
ATOM  37602  CB  ALA D 195     142.730 121.057  31.241  1.00140.27      DS4
ATOM  37603  C   ALA D 195     143.974 119.394  29.872  1.00 84.17      DS4
ATOM  37604  O   ALA D 195     144.993 119.729  30.473  1.00 84.17      DS4
ATOM  37605  N   LEU D 196     143.906 118.316  29.098  1.00 65.79      DS4
ATOM  37606  CA  LEU D 196     145.053 117.443  28.914  1.00 65.79      DS4
ATOM  37607  CB  LEU D 196     144.662 116.224  28.097  1.00 49.09      DS4
ATOM  37608  CG  LEU D 196     143.954 115.127  28.874  1.00 49.09      DS4
ATOM  37609  CD1 LEU D 196     143.455 114.078  27.904  1.00 49.09      DS4
ATOM  37610  CD2 LEU D 196     144.910 114.528  29.893  1.00 49.09      DS4
ATOM  37611  C   LEU D 196     146.197 118.141  28.219  1.00 65.79      DS4
ATOM  37612  O   LEU D 196     145.992 118.925  27.301  1.00 65.79      DS4
ATOM  37613  N   PRO D 197     147.427 117.858  28.649  1.00 52.63      DS4
ATOM  37614  CD  PRO D 197     147.743 116.938  29.756  1.00 25.67      DS4
ATOM  37615  CA  PRO D 197     148.649 118.438  28.088  1.00 52.63      DS4
ATOM  37616  CB  PRO D 197     149.661 118.188  29.181  1.00 25.67      DS4
ATOM  37617  CG  PRO D 197     149.261 116.810  29.653  1.00 25.67      DS4
ATOM  37618  C   PRO D 197     149.022 117.676  26.820  1.00 52.63      DS4
ATOM  37619  O   PRO D 197     150.158 117.222  26.671  1.00 52.63      DS4
ATOM  37620  N   VAL D 198     148.076 117.541  25.903  1.00 49.88      DS4
ATOM  37621  CA  VAL D 198     148.337 116.779  24.703  1.00 49.88      DS4
ATOM  37622  CB  VAL D 198     147.807 115.341  24.883  1.00 48.81      DS4
ATOM  37623  CG1 VAL D 198     147.654 114.647  23.533  1.00 48.81      DS4
ATOM  37624  CG2 VAL D 198     148.745 114.567  25.784  1.00 48.81      DS4
ATOM  37625  C   VAL D 198     147.726 117.351  23.448  1.00 49.88      DS4
ATOM  37626  O   VAL D 198     146.530 117.642  23.409  1.00 49.88      DS4
ATOM  37627  N   GLN D 199     148.552 117.506  22.420  1.00 45.84      DS4
ATOM  37628  CA  GLN D 199     148.080 117.991  21.127  1.00 45.84      DS4
ATOM  37629  CB  GLN D 199     149.257 118.521  20.308  1.00 75.91      DS4
ATOM  37630  CG  GLN D 199     148.907 119.573  19.287  1.00 75.91      DS4
ATOM  37631  CD  GLN D 199     147.791 119.162  18.347  1.00 75.91      DS4
ATOM  37632  OE1 GLN D 199     147.341 119.956  17.518  1.00 75.91      DS4
ATOM  37633  NE2 GLN D 199     147.340 117.927  18.464  1.00 75.91      DS4
ATOM  37634  C   GLN D 199     147.563 116.697  20.495  1.00 45.84      DS4
ATOM  37635  O   GLN D 199     148.337 115.960  19.893  1.00 45.84      DS4
ATOM  37636  N   GLU D 200     146.271 116.406  20.613  1.00 59.80      DS4
ATOM  37637  CA  GLU D 200     145.774 115.144  20.066  1.00 59.80      DS4
ATOM  37638  CB  GLU D 200     144.291 114.915  20.423  1.00 79.71      DS4
ATOM  37639  CG  GLU D 200     143.313 115.826  19.735  1.00 79.71      DS4
ATOM  37640  CD  GLU D 200     143.074 117.104  20.501  1.00 79.71      DS4
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ATOM  37641  OE1 GLU D 200     144.054 117.704  20.994  1.00 79.71       DS4
ATOM  37642  OE2 GLU D 200     141.898 117.514  20.599  1.00 79.71       DS4
ATOM  37643  C   GLU D 200     145.980 114.959  18.565  1.00 59.80       DS4
ATOM  37644  O   GLU D 200     146.214 113.839  18.109  1.00 59.80       DS4
ATOM  37645  N   ASN D 201     145.910 116.040  17.797  1.00 50.25       DS4
ATOM  37646  CA  ASN D 201     146.088 115.929  16.354  1.00 50.25       DS4
ATOM  37647  CB  ASN D 201     146.108 117.298  15.693  1.00102.38       DS4
ATOM  37648  CG  ASN D 201     145.998 117.206  14.193  1.00102.38       DS4
ATOM  37649  OD1 ASN D 201     146.045 118.214  13.493  1.00102.38       DS4
ATOM  37650  ND2 ASN D 201     145.843 115.989  13.685  1.00102.38       DS4
ATOM  37651  C   ASN D 201     147.372 115.188  16.016  1.00 50.25       DS4
ATOM  37652  O   ASN D 201     147.380 114.318  15.153  1.00 50.25       DS4
ATOM  37653  N   LEU D 202     148.459 115.533  16.692  1.00 43.53       DS4
ATOM  37654  CA  LEU D 202     149.719 114.851  16.463  1.00 43.53       DS4
ATOM  37655  CB  LEU D 202     150.771 115.320  17.449  1.00 29.31       DS4
ATOM  37656  CG  LEU D 202     151.299 116.737  17.317  1.00 29.31       DS4
ATOM  37657  CD1 LEU D 202     152.501 116.852  18.211  1.00 29.31       DS4
ATOM  37658  CD2 LEU D 202     151.723 117.030  15.901  1.00 29.31       DS4
ATOM  37659  C   LEU D 202     149.532 113.354  16.655  1.00 43.53       DS4
ATOM  37660  O   LEU D 202     150.199 112.543  16.012  1.00 43.53       DS4
ATOM  37661  N   VAL D 203     148.642 112.982  17.563  1.00 44.76       DS4
ATOM  37662  CA  VAL D 203     148.412 111.577  17.798  1.00 44.76       DS4
ATOM  37663  CB  VAL D 203     147.447 111.343  18.955  1.00 61.10       DS4
ATOM  37664  CG1 VAL D 203     147.322 109.850  19.219  1.00 61.10       DS4
ATOM  37665  CG2 VAL D 203     147.947 112.055  20.193  1.00 61.10       DS4
ATOM  37666  C   VAL D 203     147.812 111.033  16.527  1.00 44.76       DS4
ATOM  37667  O   VAL D 203     148.261 110.021  16.010  1.00 44.76       DS4
ATOM  37668  N   ILE D 204     146.798 111.716  16.010  1.00 47.03       DS4
ATOM  37669  CA  ILE D 204     146.161 111.277  14.780  1.00 47.03       DS4
ATOM  37670  CB  ILE D 204     145.165 112.294  14.278  1.00 49.16       DS4
ATOM  37671  CG2 ILE D 204     144.776 111.972  12.852  1.00 49.16       DS4
ATOM  37672  CG1 ILE D 204     143.956 112.306  15.196  1.00 49.16       DS4
ATOM  37673  CD1 ILE D 204     142.820 113.191  14.700  1.00 49.16       DS4
ATOM  37674  C   ILE D 204     147.212 111.101  13.711  1.00 47.03       DS4
ATOM  37675  O   ILE D 204     147.183 110.134  12.957  1.00 47.03       DS4
ATOM  37676  N   GLU D 205     148.140 112.047  13.657  1.00 47.31       DS4
ATOM  37677  CA  GLU D 205     149.213 112.016  12.673  1.00 47.31       DS4
ATOM  37678  CB  GLU D 205     149.948 113.359  12.632  1.00 95.26       DS4
ATOM  37679  CG  GLU D 205     149.114 114.489  12.047  1.00 95.26       DS4
ATOM  37680  CD  GLU D 205     149.797 115.838  12.145  1.00 95.26       DS4
ATOM  37681  OE1 GLU D 205     149.227 116.829  11.641  1.00 95.26       DS4
ATOM  37682  OE2 GLU D 205     150.901 115.910  12.725  1.00 95.26       DS4
ATOM  37683  C   GLU D 205     150.201 110.903  12.940  1.00 47.31       DS4
ATOM  37684  O   GLU D 205     150.891 110.477  12.036  1.00 47.31       DS4
ATOM  37685  N   PHE D 206     150.281 110.426  14.173  1.00 44.23       DS4
ATOM  37686  CA  PHE D 206     151.212 109.346  14.457  1.00 44.23       DS4
ATOM  37687  CB  PHE D 206     151.481 109.197  15.950  1.00 40.71       DS4
ATOM  37688  CG  PHE D 206     152.408 108.055  16.281  1.00 40.71       DS4
ATOM  37689  CD1 PHE D 206     153.773 108.140  16.001  1.00 40.71       DS4
ATOM  37690  CD2 PHE D 206     151.918 106.882  16.839  1.00 40.71       DS4
ATOM  37691  CE1 PHE D 206     154.635 107.071  16.272  1.00 40.71       DS4
ATOM  37692  CE2 PHE D 206     152.770 105.812  17.113  1.00 40.71       DS4
ATOM  37693  CZ  PHE D 206     154.132 105.911  16.827  1.00 40.71       DS4
ATOM  37694  C   PHE D 206     150.633 108.054  13.949  1.00 44.23       DS4
ATOM  37695  O   PHE D 206     151.307 107.041  13.932  1.00 44.23       DS4
ATOM  37696  N   TYR D 207     149.374 108.068  13.553  1.00 65.83       DS4
ATOM  37697  CA  TYR D 207     148.780 106.848  13.051  1.00 65.83       DS4
ATOM  37698  CB  TYR D 207     147.547 106.475  13.869  1.00 53.08       DS4
ATOM  37699  CG  TYR D 207     147.850 105.950  15.255  1.00 53.08       DS4
ATOM  37700  CD1 TYR D 207     147.489 106.674  16.392  1.00 53.08       DS4
ATOM  37701  CE1 TYR D 207     147.722 106.174  17.676  1.00 53.08       DS4
ATOM  37702  CD2 TYR D 207     148.462 104.713  15.435  1.00 53.08       DS4
ATOM  37703  CE2 TYR D 207     148.701 104.210  16.718  1.00 53.08       DS4
ATOM  37704  CZ  TYR D 207     148.325 104.947  17.827  1.00 53.08       DS4
ATOM  37705  OH  TYR D 207     148.537 104.448  19.084  1.00 53.08       DS4
ATOM  37706  C   TYR D 207     148.413 106.991  11.586  1.00 65.83       DS4
ATOM  37707  O   TYR D 207     147.668 106.177  11.043  1.00 65.83       DS4
ATOM  37708  N   SER D 208     148.932 108.035  10.951  1.00 88.21       DS4
ATOM  37709  CA  SER D 208     148.676 108.268   9.535  1.00 88.21       DS4
ATOM  37710  CB  SER D 208     148.807 109.754   9.202  1.00 98.03       DS4
ATOM  37711  OG  SER D 208     148.026 110.549  10.069  1.00 98.03       DS4
ATOM  37712  C   SER D 208     149.725 107.486   8.753  1.00 88.21       DS4
ATOM  37713  O   SER D 208     149.474 106.368   8.306  1.00 88.21       DS4
ATOM  37714  N   ARG D 209     150.903 108.090   8.614  1.00141.70       DS4
ATOM  37715  CA  ARG D 209     152.037 107.508   7.901  1.00141.70       DS4
ATOM  37716  CB  ARG D 209     152.746 106.484   8.791  1.00122.42       DS4
ATOM  37717  CG  ARG D 209     154.063 106.988   9.364  1.00122.42       DS4
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ATOM  37718  CD  ARG D 209     154.783 105.901  10.149  1.00122.42      DS4
ATOM  37719  NE  ARG D 209     156.187 106.226  10.409  1.00122.42      DS4
ATOM  37720  CZ  ARG D 209     157.118 106.359   9.466  1.00122.42      DS4
ATOM  37721  NH1 ARG D 209     156.806 106.201   8.187  1.00122.42      DS4
ATOM  37722  NH2 ARG D 209     158.369 106.638   9.804  1.00122.42      DS4
ATOM  37723  C   ARG D 209     151.693 106.880   6.552  1.00141.70      DS4
ATOM  37724  O   ARG D 209     152.097 107.462   5.523  1.00141.70      DS4
ATOM  37725  OXT ARG D 209     151.028 105.824   6.529  1.00122.42      DS4
TER   37725       ARG D 209                                             DS4
ATOM  37726  CB  ASP E   5     153.769 138.375  13.181  1.00127.70      ES5
ATOM  37727  CG  ASP E   5     155.289 138.386  13.213  1.00127.70      ES5
ATOM  37728  OD1 ASP E   5     155.862 138.336  14.324  1.00127.70      ES5
ATOM  37729  OD2 ASP E   5     155.909 138.443  12.126  1.00127.70      ES5
ATOM  37730  C   ASP E   5     153.427 135.936  12.705  1.00200.96      ES5
ATOM  37731  O   ASP E   5     152.500 135.222  12.320  1.00200.96      ES5
ATOM  37732  N   ASP E   5     153.742 136.748  15.050  1.00200.96      ES5
ATOM  37733  CA  ASP E   5     153.174 137.062  13.708  1.00200.96      ES5
ATOM  37734  N   PHE E   6     154.682 135.781  12.290  1.00 67.95      ES5
ATOM  37735  CA  PHE E   6     155.055 134.748  11.332  1.00 67.95      ES5
ATOM  37736  CB  PHE E   6     155.851 135.351  10.175  1.00 47.64      ES5
ATOM  37737  CG  PHE E   6     155.004 135.990   9.116  1.00 47.64      ES5
ATOM  37738  CD1 PHE E   6     155.594 136.766   8.121  1.00 47.64      ES5
ATOM  37739  CD2 PHE E   6     153.632 135.801   9.092  1.00 47.64      ES5
ATOM  37740  CE1 PHE E   6     154.829 137.348   7.108  1.00 47.64      ES5
ATOM  37741  CE2 PHE E   6     152.851 136.374   8.087  1.00 47.64      ES5
ATOM  37742  CZ  PHE E   6     153.451 137.152   7.088  1.00 47.64      ES5
ATOM  37743  C   PHE E   6     155.880 133.647  11.965  1.00 67.95      ES5
ATOM  37744  O   PHE E   6     156.809 133.911  12.726  1.00 67.95      ES5
ATOM  37745  N   GLU E   7     155.524 132.411  11.641  1.00 60.63      ES5
ATOM  37746  CA  GLU E   7     156.229 131.248  12.146  1.00 60.63      ES5
ATOM  37747  CB  GLU E   7     155.231 130.145  12.512  1.00148.24      ES5
ATOM  37748  CG  GLU E   7     155.855 128.912  13.159  1.00148.24      ES5
ATOM  37749  CD  GLU E   7     154.818 127.959  13.747  1.00148.24      ES5
ATOM  37750  OE1 GLU E   7     155.206 126.862  14.206  1.00148.24      ES5
ATOM  37751  OE2 GLU E   7     153.618 128.309  13.755  1.00148.24      ES5
ATOM  37752  C   GLU E   7     157.146 130.804  11.012  1.00 60.63      ES5
ATOM  37753  O   GLU E   7     156.792 130.920   9.833  1.00 60.63      ES5
ATOM  37754  N   GLU E   8     158.333 130.329  11.366  1.00 63.48      ES5
ATOM  37755  CA  GLU E   8     159.298 129.881  10.373  1.00 63.48      ES5
ATOM  37756  CB  GLU E   8     160.634 130.602  10.555  1.00119.33      ES5
ATOM  37757  CG  GLU E   8     160.671 132.030  10.044  1.00119.33      ES5
ATOM  37758  CD  GLU E   8     162.017 132.702  10.290  1.00119.33      ES5
ATOM  37759  OE1 GLU E   8     163.060 132.124   9.912  1.00119.33      ES5
ATOM  37760  OE2 GLU E   8     162.033 133.815  10.858  1.00119.33      ES5
ATOM  37761  C   GLU E   8     159.530 128.391  10.502  1.00 63.48      ES5
ATOM  37762  O   GLU E   8     159.668 127.868  11.608  1.00 63.48      ES5
ATOM  37763  N   LYS E   9     159.580 127.705   9.369  1.00 72.24      ES5
ATOM  37764  CA  LYS E   9     159.823 126.274   9.373  1.00 72.24      ES5
ATOM  37765  CB  LYS E   9     158.545 125.531   9.013  1.00 85.88      ES5
ATOM  37766  CG  LYS E   9     158.485 124.131   9.579  1.00 85.88      ES5
ATOM  37767  CD  LYS E   9     157.434 124.008  10.682  1.00 85.88      ES5
ATOM  37768  CE  LYS E   9     156.012 124.176  10.144  1.00 85.88      ES5
ATOM  37769  NZ  LYS E   9     154.984 123.912  11.192  1.00 85.88      ES5
ATOM  37770  C   LYS E   9     160.921 125.977   8.353  1.00 72.24      ES5
ATOM  37771  O   LYS E   9     160.888 126.480   7.222  1.00 72.24      ES5
ATOM  37772  N   MET E  10     161.900 125.173   8.757  1.00 49.88      ES5
ATOM  37773  CA  MET E  10     163.016 124.820   7.877  1.00 49.88      ES5
ATOM  37774  CB  MET E  10     164.295 124.700   8.708  1.00 90.05      ES5
ATOM  37775  CG  MET E  10     165.522 124.261   7.937  1.00 90.05      ES5
ATOM  37776  SD  MET E  10     166.281 122.772   8.647  1.00 90.05      ES5
ATOM  37777  CE  MET E  10     167.386 123.476   9.874  1.00 90.05      ES5
ATOM  37778  C   MET E  10     162.760 123.514   7.113  1.00 49.88      ES5
ATOM  37779  O   MET E  10     162.969 122.431   7.652  1.00 49.88      ES5
ATOM  37780  N   ILE E  11     162.302 123.632   5.864  1.00 63.33      ES5
ATOM  37781  CA  ILE E  11     162.008 122.486   4.991  1.00 63.33      ES5
ATOM  37782  CB  ILE E  11     161.700 122.951   3.558  1.00 92.50      ES5
ATOM  37783  CG2 ILE E  11     161.817 121.785   2.590  1.00 92.50      ES5
ATOM  37784  CG1 ILE E  11     160.306 123.561   3.506  1.00 92.50      ES5
ATOM  37785  CD1 ILE E  11     159.232 122.606   3.943  1.00 92.50      ES5
ATOM  37786  C   ILE E  11     163.140 121.463   4.909  1.00 63.33      ES5
ATOM  37787  O   ILE E  11     162.915 120.258   5.026  1.00 63.33      ES5
ATOM  37788  N   LEU E  12     164.350 121.948   4.662  1.00 51.47      ES5
ATOM  37789  CA  LEU E  12     165.520 121.082   4.600  1.00 51.47      ES5
ATOM  37790  CB  LEU E  12     165.394 120.038   3.468  1.00 49.32      ES5
ATOM  37791  CG  LEU E  12     165.722 120.272   1.979  1.00 49.32      ES5
ATOM  37792  CD1 LEU E  12     165.034 121.533   1.493  1.00 49.32      ES5
ATOM  37793  CD2 LEU E  12     167.220 120.360   1.769  1.00 49.32      ES5
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ATOM  37794  C   LEU E  12     166.768 121.913   4.402  1.00 51.47      ES5
ATOM  37795  O   LEU E  12     166.706 123.105   4.076  1.00 51.47      ES5
ATOM  37796  N   ILE E  13     167.907 121.287   4.634  1.00 53.55      ES5
ATOM  37797  CA  ILE E  13     169.162 121.971   4.440  1.00 53.55      ES5
ATOM  37798  CB  ILE E  13     169.729 122.511   5.756  1.00 67.16      ES5
ATOM  37799  CG2 ILE E  13     168.792 123.549   6.328  1.00 67.16      ES5
ATOM  37800  CG1 ILE E  13     169.939 121.367   6.740  1.00 67.16      ES5
ATOM  37801  CD1 ILE E  13     170.515 121.818   8.066  1.00 67.16      ES5
ATOM  37802  C   ILE E  13     170.126 120.974   3.839  1.00 53.55      ES5
ATOM  37803  O   ILE E  13     170.169 119.810   4.245  1.00 53.55      ES5
ATOM  37804  N   ARG E  14     170.884 121.429   2.851  1.00 42.47      ES5
ATOM  37805  CA  ARG E  14     171.844 120.568   2.199  1.00 42.47      ES5
ATOM  37806  CB  ARG E  14     171.329 120.169   0.815  1.00 26.04      ES5
ATOM  37807  CG  ARG E  14     171.177 121.291  -0.184  1.00 26.04      ES5
ATOM  37808  CD  ARG E  14     170.663 120.709  -1.468  1.00 26.04      ES5
ATOM  37809  NE  ARG E  14     170.556 121.686  -2.545  1.00 26.04      ES5
ATOM  37810  CZ  ARG E  14     170.122 121.379  -3.771  1.00 26.04      ES5
ATOM  37811  NH1 ARG E  14     169.761 120.123  -4.037  1.00 26.04      ES5
ATOM  37812  NH2 ARG E  14     170.063 122.308  -4.733  1.00 26.04      ES5
ATOM  37813  C   ARG E  14     173.196 121.248   2.083  1.00 42.47      ES5
ATOM  37814  O   ARG E  14     173.289 122.478   2.094  1.00 42.47      ES5
ATOM  37815  N   ARG E  15     174.242 120.436   1.988  1.00 46.98      ES5
ATOM  37816  CA  ARG E  15     175.602 120.940   1.852  1.00 46.98      ES5
ATOM  37817  CB  ARG E  15     176.537 120.234   2.842  1.00 68.90      ES5
ATOM  37818  CG  ARG E  15     177.962 120.758   2.855  1.00 68.90      ES5
ATOM  37819  CD  ARG E  15     178.790 120.110   1.772  1.00 68.90      ES5
ATOM  37820  NE  ARG E  15     179.185 118.746   2.115  1.00 68.90      ES5
ATOM  37821  CZ  ARG E  15     180.016 118.437   3.106  1.00 68.90      ES5
ATOM  37822  NH1 ARG E  15     180.539 119.396   3.857  1.00 68.90      ES5
ATOM  37823  NH2 ARG E  15     180.344 117.173   3.330  1.00 68.90      ES5
ATOM  37824  C   ARG E  15     176.024 120.650   0.430  1.00 46.98      ES5
ATOM  37825  O   ARG E  15     176.294 119.509   0.069  1.00 46.98      ES5
ATOM  37826  N   THR E  16     176.070 121.695  -0.376  1.00 39.72      ES5
ATOM  37827  CA  THR E  16     176.436 121.577  -1.777  1.00 39.72      ES5
ATOM  37828  CB  THR E  16     175.821 122.733  -2.546  1.00 39.05      ES5
ATOM  37829  OG1 THR E  16     175.526 122.331  -3.881  1.00 39.05      ES5
ATOM  37830  CG2 THR E  16     176.773 123.894  -2.560  1.00 39.05      ES5
ATOM  37831  C   THR E  16     177.969 121.595  -1.930  1.00 39.72      ES5
ATOM  37832  O   THR E  16     178.686 121.719  -0.946  1.00 39.72      ES5
ATOM  37833  N   ALA E  17     178.475 121.476  -3.153  1.00 62.84      ES5
ATOM  37834  CA  ALA E  17     179.923 121.468  -3.345  1.00 62.84      ES5
ATOM  37835  CB  ALA E  17     180.501 120.169  -2.822  1.00  9.67      ES5
ATOM  37836  C   ALA E  17     180.365 121.680  -4.789  1.00 62.84      ES5
ATOM  37837  O   ALA E  17     179.853 121.039  -5.713  1.00 62.84      ES5
ATOM  37838  N   ARG E  18     181.325 122.589  -4.959  1.00 49.38      ES5
ATOM  37839  CA  ARG E  18     181.882 122.938  -6.261  1.00 49.38      ES5
ATOM  37840  CB  ARG E  18     181.814 124.448  -6.473  1.00 53.90      ES5
ATOM  37841  CG  ARG E  18     183.043 125.196  -6.000  1.00 53.90      ES5
ATOM  37842  CD  ARG E  18     182.775 126.688  -5.776  1.00 53.90      ES5
ATOM  37843  NE  ARG E  18     182.664 126.990  -4.349  1.00 53.90      ES5
ATOM  37844  CZ  ARG E  18     183.251 128.022  -3.750  1.00 53.90      ES5
ATOM  37845  NH1 ARG E  18     183.992 128.871  -4.449  1.00 53.90      ES5
ATOM  37846  NH2 ARG E  18     183.126 128.181  -2.440  1.00 53.90      ES5
ATOM  37847  C   ARG E  18     183.326 122.492  -6.191  1.00 49.38      ES5
ATOM  37848  O   ARG E  18     183.794 122.134  -5.118  1.00 49.38      ES5
ATOM  37849  N   MET E  19     184.042 122.517  -7.309  1.00 48.30      ES5
ATOM  37850  CA  MET E  19     185.434 122.079  -7.286  1.00 48.30      ES5
ATOM  37851  CB  MET E  19     185.645 120.947  -8.281  1.00 43.67      ES5
ATOM  37852  CG  MET E  19     185.188 119.628  -7.749  1.00 43.67      ES5
ATOM  37853  SD  MET E  19     186.060 119.231  -6.230  1.00 43.67      ES5
ATOM  37854  CE  MET E  19     186.738 117.576  -6.637  1.00 43.67      ES5
ATOM  37855  C   MET E  19     186.507 123.128  -7.514  1.00 48.30      ES5
ATOM  37856  O   MET E  19     186.281 124.173  -8.136  1.00 48.30      ES5
ATOM  37857  N   GLN E  20     187.687 122.818  -6.990  1.00 79.77      ES5
ATOM  37858  CA  GLN E  20     188.869 123.661  -7.099  1.00 79.77      ES5
ATOM  37859  CB  GLN E  20     188.885 124.740  -6.016  1.00130.86      ES5
ATOM  37860  CG  GLN E  20     187.996 125.907  -6.318  1.00130.86      ES5
ATOM  37861  CD  GLN E  20     188.213 126.409  -7.723  1.00130.86      ES5
ATOM  37862  OE1 GLN E  20     189.354 126.604  -8.150  1.00130.86      ES5
ATOM  37863  NE2 GLN E  20     187.123 126.621  -8.457  1.00130.86      ES5
ATOM  37864  C   GLN E  20     190.039 122.736  -6.879  1.00 79.77      ES5
ATOM  37865  O   GLN E  20     189.847 121.570  -6.527  1.00 79.77      ES5
ATOM  37866  N   ALA E  21     191.249 123.237  -7.089  1.00 35.78      ES5
ATOM  37867  CA  ALA E  21     192.414 122.403  -6.854  1.00 35.78      ES5
ATOM  37868  CB  ALA E  21     193.618 123.119  -7.280  1.00 13.91      ES5
ATOM  37869  C   ALA E  21     192.516 122.062  -5.367  1.00 35.78      ES5
ATOM  37870  O   ALA E  21     191.895 122.702  -4.508  1.00 35.78      ES5
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ATOM  37871  N   GLY E  22     193.306 121.052  -5.052  1.00 85.17      ES5
ATOM  37872  CA  GLY E  22     193.448 120.690  -3.658  1.00 85.17      ES5
ATOM  37873  C   GLY E  22     192.158 120.149  -3.091  1.00 85.17      ES5
ATOM  37874  O   GLY E  22     192.161 119.098  -2.442  1.00 85.17      ES5
ATOM  37875  N   GLY E  23     191.048 120.844  -3.327  1.00 48.69      ES5
ATOM  37876  CA  GLY E  23     189.789 120.333  -2.806  1.00 48.69      ES5
ATOM  37877  C   GLY E  23     188.461 120.816  -3.364  1.00 48.69      ES5
ATOM  37878  O   GLY E  23     188.368 121.384  -4.459  1.00 48.69      ES5
ATOM  37879  N   ARG E  24     187.420 120.559  -2.576  1.00 57.59      ES5
ATOM  37880  CA  ARG E  24     186.059 120.946  -2.907  1.00 57.59      ES5
ATOM  37881  CB  ARG E  24     185.089 119.842  -2.517  1.00 71.15      ES5
ATOM  37882  CG  ARG E  24     185.742 118.519  -2.234  1.00 71.15      ES5
ATOM  37883  CD  ARG E  24     184.771 117.614  -1.512  1.00 71.15      ES5
ATOM  37884  NE  ARG E  24     185.215 116.227  -1.488  1.00 71.15      ES5
ATOM  37885  CZ  ARG E  24     185.489 115.515  -2.578  1.00 71.15      ES5
ATOM  37886  NH1 ARG E  24     185.367 116.068  -3.780  1.00 71.15      ES5
ATOM  37887  NH2 ARG E  24     185.873 114.246  -2.468  1.00 71.15      ES5
ATOM  37888  C   ARG E  24     185.716 122.197  -2.110  1.00 57.59      ES5
ATOM  37889  O   ARG E  24     186.319 122.477  -1.080  1.00 57.59      ES5
ATOM  37890  N   ARG E  25     184.739 122.948  -2.587  1.00 73.18      ES5
ATOM  37891  CA  ARG E  25     184.334 124.147  -1.893  1.00 73.18      ES5
ATOM  37892  CB  ARG E  25     184.623 125.371  -2.767  1.00 54.11      ES5
ATOM  37893  CG  ARG E  25     186.113 125.564  -3.060  1.00 54.11      ES5
ATOM  37894  CD  ARG E  25     186.908 125.482  -1.757  1.00 54.11      ES5
ATOM  37895  NE  ARG E  25     188.364 125.666  -1.856  1.00 54.11      ES5
ATOM  37896  CZ  ARG E  25     188.987 126.801  -2.186  1.00 54.11      ES5
ATOM  37897  NH1 ARG E  25     188.309 127.908  -2.479  1.00 54.11      ES5
ATOM  37898  NH2 ARG E  25     190.315 126.831  -2.179  1.00 54.11      ES5
ATOM  37899  C   ARG E  25     182.854 124.024  -1.546  1.00 73.18      ES5
ATOM  37900  O   ARG E  25     181.975 124.149  -2.404  1.00 73.18      ES5
ATOM  37901  N   PHE E  26     182.591 123.758  -0.272  1.00 50.72      ES5
ATOM  37902  CA  PHE E  26     181.237 123.586   0.216  1.00 50.72      ES5
ATOM  37903  CB  PHE E  26     181.295 122.927   1.573  1.00 59.05      ES5
ATOM  37904  CG  PHE E  26     182.027 121.642   1.558  1.00 59.05      ES5
ATOM  37905  CD1 PHE E  26     182.916 121.321   2.568  1.00 59.05      ES5
ATOM  37906  CD2 PHE E  26     181.831 120.744   0.528  1.00 59.05      ES5
ATOM  37907  CE1 PHE E  26     183.608 120.110   2.555  1.00 59.05      ES5
ATOM  37908  CE2 PHE E  26     182.508 119.537   0.501  1.00 59.05      ES5
ATOM  37909  CZ  PHE E  26     183.401 119.215   1.516  1.00 59.05      ES5
ATOM  37910  C   PHE E  26     180.403 124.850   0.297  1.00 50.72      ES5
ATOM  37911  O   PHE E  26     180.925 125.968   0.307  1.00 50.72      ES5
ATOM  37912  N   ARG E  27     179.090 124.649   0.336  1.00 41.17      ES5
ATOM  37913  CA  ARG E  27     178.128 125.732   0.432  1.00 41.17      ES5
ATOM  37914  CB  ARG E  27     177.915 126.402  -0.920  1.00 74.71      ES5
ATOM  37915  CG  ARG E  27     176.947 127.558  -0.857  1.00 74.71      ES5
ATOM  37916  CD  ARG E  27     176.814 128.239  -2.196  1.00 74.71      ES5
ATOM  37917  NE  ARG E  27     178.037 128.936  -2.563  1.00 74.71      ES5
ATOM  37918  CZ  ARG E  27     178.241 129.494  -3.750  1.00 74.71      ES5
ATOM  37919  NH1 ARG E  27     177.297 129.428  -4.679  1.00 74.71      ES5
ATOM  37920  NH2 ARG E  27     179.384 130.120  -4.008  1.00 74.71      ES5
ATOM  37921  C   ARG E  27     176.847 125.093   0.917  1.00 41.17      ES5
ATOM  37922  O   ARG E  27     176.649 123.889   0.737  1.00 41.17      ES5
ATOM  37923  N   PHE E  28     175.981 125.895   1.535  1.00 43.28      ES5
ATOM  37924  CA  PHE E  28     174.738 125.379   2.083  1.00 43.28      ES5
ATOM  37925  CB  PHE E  28     174.739 125.559   3.575  1.00 18.98      ES5
ATOM  37926  CG  PHE E  28     175.836 124.821   4.248  1.00 18.98      ES5
ATOM  37927  CD1 PHE E  28     177.137 125.287   4.181  1.00 18.98      ES5
ATOM  37928  CD2 PHE E  28     175.569 123.627   4.941  1.00 18.98      ES5
ATOM  37929  CE1 PHE E  28     178.158 124.579   4.795  1.00 18.98      ES5
ATOM  37930  CE2 PHE E  28     176.583 122.908   5.560  1.00 18.98      ES5
ATOM  37931  CZ  PHE E  28     177.880 123.380   5.490  1.00 18.98      ES5
ATOM  37932  C   PHE E  28     173.458 125.941   1.554  1.00 43.28      ES5
ATOM  37933  O   PHE E  28     173.346 127.143   1.310  1.00 43.28      ES5
ATOM  37934  N   GLY E  29     172.480 125.054   1.407  1.00 42.76      ES5
ATOM  37935  CA  GLY E  29     171.172 125.454   0.926  1.00 42.76      ES5
ATOM  37936  C   GLY E  29     170.134 125.229   2.008  1.00 42.76      ES5
ATOM  37937  O   GLY E  29     170.187 124.226   2.727  1.00 42.76      ES5
ATOM  37938  N   ALA E  30     169.196 126.166   2.135  1.00 41.99      ES5
ATOM  37939  CA  ALA E  30     168.139 126.060   3.139  1.00 41.99      ES5
ATOM  37940  CB  ALA E  30     168.472 126.927   4.328  1.00 53.24      ES5
ATOM  37941  C   ALA E  30     166.774 126.455   2.596  1.00 41.99      ES5
ATOM  37942  O   ALA E  30     166.596 127.565   2.072  1.00 41.99      ES5
ATOM  37943  N   LEU E  31     165.815 125.538   2.708  1.00 44.39      ES5
ATOM  37944  CA  LEU E  31     164.455 125.821   2.262  1.00 44.39      ES5
ATOM  37945  CB  LEU E  31     163.801 124.593   1.622  1.00 37.46      ES5
ATOM  37946  CG  LEU E  31     163.394 124.759   0.149  1.00 37.46      ES5
ATOM  37947  CD1 LEU E  31     162.341 123.728  -0.204  1.00 37.46      ES5
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ATOM  37948  CD2 LEU E  31     162.852 126.142  -0.098  1.00 37.46       ES5
ATOM  37949  C   LEU E  31     163.685 126.231   3.507  1.00 44.39       ES5
ATOM  37950  O   LEU E  31     163.681 125.511   4.506  1.00 44.39       ES5
ATOM  37951  N   VAL E  32     163.047 127.395   3.447  1.00 41.51       ES5
ATOM  37952  CA  VAL E  32     162.309 127.907   4.593  1.00 41.51       ES5
ATOM  37953  CB  VAL E  32     163.007 129.143   5.199  1.00 45.44       ES5
ATOM  37954  CG1 VAL E  32     162.026 129.912   6.073  1.00 45.44       ES5
ATOM  37955  CG2 VAL E  32     164.216 128.710   6.009  1.00 45.44       ES5
ATOM  37956  C   VAL E  32     160.871 128.298   4.322  1.00 41.51       ES5
ATOM  37957  O   VAL E  32     160.563 128.998   3.344  1.00 41.51       ES5
ATOM  37958  N   VAL E  33     159.998 127.850   5.217  1.00 39.14       ES5
ATOM  37959  CA  VAL E  33     158.588 128.168   5.111  1.00 39.14       ES5
ATOM  37960  CB  VAL E  33     157.703 126.964   5.381  1.00 59.00       ES5
ATOM  37961  CG1 VAL E  33     156.309 127.246   4.882  1.00 59.00       ES5
ATOM  37962  CG2 VAL E  33     158.274 125.750   4.721  1.00 59.00       ES5
ATOM  37963  C   VAL E  33     158.270 129.207   6.162  1.00 39.14       ES5
ATOM  37964  O   VAL E  33     158.794 129.173   7.278  1.00 39.14       ES5
ATOM  37965  N   VAL E  34     157.405 130.132   5.799  1.00 41.17       ES5
ATOM  37966  CA  VAL E  34     157.017 131.177   6.712  1.00 41.17       ES5
ATOM  37967  CB  VAL E  34     157.755 132.470   6.397  1.00 41.50       ES5
ATOM  37968  CG1 VAL E  34     157.124 133.612   7.136  1.00 41.50       ES5
ATOM  37969  CG2 VAL E  34     159.198 132.338   6.794  1.00 41.50       ES5
ATOM  37970  C   VAL E  34     155.537 131.387   6.535  1.00 41.17       ES5
ATOM  37971  O   VAL E  34     155.061 131.636   5.419  1.00 41.17       ES5
ATOM  37972  N   GLY E  35     154.804 131.270   7.634  1.00 68.93       ES5
ATOM  37973  CA  GLY E  35     153.372 131.455   7.568  1.00 68.93       ES5
ATOM  37974  C   GLY E  35     152.839 132.099   8.825  1.00 68.93       ES5
ATOM  37975  O   GLY E  35     153.530 132.146   9.845  1.00 68.93       ES5
ATOM  37976  N   ASP E  36     151.610 132.605   8.748  1.00 66.40       ES5
ATOM  37977  CA  ASP E  36     150.959 133.239   9.887  1.00 66.40       ES5
ATOM  37978  CB  ASP E  36     150.404 134.609   9.493  1.00 58.40       ES5
ATOM  37979  CG  ASP E  36     149.280 134.519   8.475  1.00 58.40       ES5
ATOM  37980  OD1 ASP E  36     148.857 133.391   8.150  1.00 58.40       ES5
ATOM  37981  OD2 ASP E  36     148.813 135.583   8.003  1.00 58.40       ES5
ATOM  37982  C   ASP E  36     149.818 132.362  10.391  1.00 66.40       ES5
ATOM  37983  O   ASP E  36     149.194 132.673  11.395  1.00 66.40       ES5
ATOM  37984  N   ARG E  37     149.552 131.270   9.681  1.00 51.32       ES5
ATOM  37985  CA  ARG E  37     148.482 130.347  10.038  1.00 51.32       ES5
ATOM  37986  CB  ARG E  37     148.729 129.783  11.431  1.00 53.77       ES5
ATOM  37987  CG  ARG E  37     149.870 128.801  11.507  1.00 53.77       ES5
ATOM  37988  CD  ARG E  37     150.170 128.493  12.961  1.00 53.77       ES5
ATOM  37989  NE  ARG E  37     151.156 127.434  13.150  1.00 53.77       ES5
ATOM  37990  CZ  ARG E  37     151.014 126.204  12.674  1.00 53.77       ES5
ATOM  37991  NH1 ARG E  37     149.926 125.889  11.979  1.00 53.77       ES5
ATOM  37992  NH2 ARG E  37     151.948 125.287  12.901  1.00 53.77       ES5
ATOM  37993  C   ARG E  37     147.118 131.044   9.968  1.00 51.32       ES5
ATOM  37994  O   ARG E  37     146.115 130.577  10.515  1.00 51.32       ES5
ATOM  37995  N   GLN E  38     147.103 132.170   9.276  1.00 47.13       ES5
ATOM  37996  CA  GLN E  38     145.900 132.942   9.100  1.00 47.13       ES5
ATOM  37997  CB  GLN E  38     146.059 134.332   9.709  1.00106.23       ES5
ATOM  37998  CG  GLN E  38     144.950 134.750  10.649  1.00106.23       ES5
ATOM  37999  CD  GLN E  38     145.169 134.237  12.052  1.00106.23       ES5
ATOM  38000  OE1 GLN E  38     146.172 134.561  12.689  1.00106.23       ES5
ATOM  38001  NE2 GLN E  38     144.234 133.430  12.544  1.00106.23       ES5
ATOM  38002  C   GLN E  38     145.768 133.078   7.603  1.00 47.13       ES5
ATOM  38003  O   GLN E  38     145.282 134.096   7.115  1.00 47.13       ES5
ATOM  38004  N   GLY E  39     146.244 132.075   6.868  1.00 45.23       ES5
ATOM  38005  CA  GLY E  39     146.136 132.115   5.414  1.00 45.23       ES5
ATOM  38006  C   GLY E  39     147.230 132.818   4.626  1.00 45.23       ES5
ATOM  38007  O   GLY E  39     147.013 133.192   3.469  1.00 45.23       ES5
ATOM  38008  N   ARG E  40     148.398 132.999   5.243  1.00 47.69       ES5
ATOM  38009  CA  ARG E  40     149.545 133.639   4.593  1.00 47.69       ES5
ATOM  38010  CB  ARG E  40     149.837 135.012   5.207  1.00 88.82       ES5
ATOM  38011  CG  ARG E  40     148.861 136.102   4.843  1.00 88.82       ES5
ATOM  38012  CD  ARG E  40     149.183 137.405   5.569  1.00 88.82       ES5
ATOM  38013  NE  ARG E  40     150.421 138.041   5.111  1.00 88.82       ES5
ATOM  38014  CZ  ARG E  40     150.608 138.541   3.890  1.00 88.82       ES5
ATOM  38015  NH1 ARG E  40     149.638 138.482   2.985  1.00 88.82       ES5
ATOM  38016  NH2 ARG E  40     151.765 139.114   3.574  1.00 88.82       ES5
ATOM  38017  C   ARG E  40     150.801 132.783   4.736  1.00 47.69       ES5
ATOM  38018  O   ARG E  40     151.298 132.578   5.849  1.00 47.69       ES5
ATOM  38019  N   VAL E  41     151.312 132.286   3.611  1.00 47.51       ES5
ATOM  38020  CA  VAL E  41     152.535 131.481   3.614  1.00 47.51       ES5
ATOM  38021  CB  VAL E  41     152.295 130.021   3.220  1.00 71.44       ES5
ATOM  38022  CG1 VAL E  41     152.195 129.166   4.450  1.00 71.44       ES5
ATOM  38023  CG2 VAL E  41     151.049 129.912   2.373  1.00 71.44       ES5
ATOM  38024  C   VAL E  41     153.533 132.029   2.624  1.00 47.51       ES5
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ATOM  38025  O   VAL E  41     153.157 132.632   1.609  1.00 47.51      ES5
ATOM  38026  N   GLY E  42     154.806 131.804   2.928  1.00 44.30      ES5
ATOM  38027  CA  GLY E  42     155.873 132.253   2.059  1.00 44.30      ES5
ATOM  38028  C   GLY E  42     156.953 131.197   2.002  1.00 44.30      ES5
ATOM  38029  O   GLY E  42     157.276 130.581   3.024  1.00 44.30      ES5
ATOM  38030  N   LEU E  43     157.507 130.975   0.814  1.00 37.82      ES5
ATOM  38031  CA  LEU E  43     158.560 129.977   0.646  1.00 37.82      ES5
ATOM  38032  CB  LEU E  43     158.229 129.035  -0.504  1.00 25.02      ES5
ATOM  38033  CG  LEU E  43     158.611 127.580  -0.278  1.00 25.02      ES5
ATOM  38034  CD1 LEU E  43     158.954 126.963  -1.605  1.00 25.02      ES5
ATOM  38035  CD2 LEU E  43     159.776 127.486   0.689  1.00 25.02      ES5
ATOM  38036  C   LEU E  43     159.888 130.627   0.342  1.00 37.82      ES5
ATOM  38037  O   LEU E  43     159.959 131.548  -0.474  1.00 37.82      ES5
ATOM  38038  N   GLY E  44     160.946 130.137   0.971  1.00 38.96      ES5
ATOM  38039  CA  GLY E  44     162.251 130.719   0.719  1.00 38.96      ES5
ATOM  38040  C   GLY E  44     163.411 129.744   0.675  1.00 38.96      ES5
ATOM  38041  O   GLY E  44     163.520 128.837   1.518  1.00 38.96      ES5
ATOM  38042  N   PHE E  45     164.284 129.932  -0.312  1.00 45.86      ES5
ATOM  38043  CA  PHE E  45     165.458 129.074  -0.468  1.00 45.86      ES5
ATOM  38044  CB  PHE E  45     165.311 128.170  -1.691  1.00 51.29      ES5
ATOM  38045  CG  PHE E  45     166.377 127.122  -1.799  1.00 51.29      ES5
ATOM  38046  CD1 PHE E  45     166.659 126.288  -0.729  1.00 51.29      ES5
ATOM  38047  CD2 PHE E  45     167.068 126.934  -2.990  1.00 51.29      ES5
ATOM  38048  CE1 PHE E  45     167.614 125.274  -0.846  1.00 51.29      ES5
ATOM  38049  CE2 PHE E  45     168.023 125.922  -3.110  1.00 51.29      ES5
ATOM  38050  CZ  PHE E  45     168.292 125.092  -2.037  1.00 51.29      ES5
ATOM  38051  C   PHE E  45     166.690 129.938  -0.624  1.00 45.86      ES5
ATOM  38052  O   PHE E  45     166.881 130.593  -1.657  1.00 45.86      ES5
ATOM  38053  N   GLY E  46     167.519 129.932   0.413  1.00 44.54      ES5
ATOM  38054  CA  GLY E  46     168.728 130.732   0.407  1.00 44.54      ES5
ATOM  38055  C   GLY E  46     169.961 129.874   0.579  1.00 44.54      ES5
ATOM  38056  O   GLY E  46     169.922 128.806   1.215  1.00 44.54      ES5
ATOM  38057  N   LYS E  47     171.063 130.347   0.007  1.00 57.21      ES5
ATOM  38058  CA  LYS E  47     172.311 129.612   0.076  1.00 57.21      ES5
ATOM  38059  CB  LYS E  47     172.664 129.028  -1.292  1.00 61.75      ES5
ATOM  38060  CG  LYS E  47     171.510 128.380  -2.029  1.00 61.75      ES5
ATOM  38061  CD  LYS E  47     171.206 129.150  -3.296  1.00 61.75      ES5
ATOM  38062  CE  LYS E  47     169.967 128.625  -3.977  1.00 61.75      ES5
ATOM  38063  NZ  LYS E  47     169.657 129.455  -5.164  1.00 61.75      ES5
ATOM  38064  C   LYS E  47     173.416 130.539   0.511  1.00 57.21      ES5
ATOM  38065  O   LYS E  47     173.477 131.689   0.075  1.00 57.21      ES5
ATOM  38066  N   ALA E  48     174.299 130.030   1.362  1.00 42.01      ES5
ATOM  38067  CA  ALA E  48     175.414 130.817   1.863  1.00 42.01      ES5
ATOM  38068  CB  ALA E  48     174.933 131.762   2.953  1.00 49.38      ES5
ATOM  38069  C   ALA E  48     176.505 129.907   2.405  1.00 42.01      ES5
ATOM  38070  O   ALA E  48     176.264 128.739   2.715  1.00 42.01      ES5
ATOM  38071  N   PRO E  49     177.732 130.429   2.516  1.00 36.21      ES5
ATOM  38072  CD  PRO E  49     178.218 131.757   2.112  1.00 39.46      ES5
ATOM  38073  CA  PRO E  49     178.830 129.619   3.028  1.00 36.21      ES5
ATOM  38074  CB  PRO E  49     179.979 130.613   3.136  1.00 39.46      ES5
ATOM  38075  CG  PRO E  49     179.299 131.966   3.101  1.00 39.46      ES5
ATOM  38076  C   PRO E  49     178.516 128.926   4.328  1.00 36.21      ES5
ATOM  38077  O   PRO E  49     178.810 127.754   4.464  1.00 36.21      ES5
ATOM  38078  N   GLU E  50     177.908 129.625   5.277  1.00 51.23      ES5
ATOM  38079  CA  GLU E  50     177.564 129.005   6.563  1.00 51.23      ES5
ATOM  38080  CB  GLU E  50     178.037 129.902   7.709  1.00200.21      ES5
ATOM  38081  CG  GLU E  50     179.544 130.126   7.699  1.00200.21      ES5
ATOM  38082  CD  GLU E  50     179.999 131.174   8.696  1.00200.21      ES5
ATOM  38083  OE1 GLU E  50     179.551 132.335   8.585  1.00200.21      ES5
ATOM  38084  OE2 GLU E  50     180.811 130.837   9.585  1.00200.21      ES5
ATOM  38085  C   GLU E  50     176.048 128.743   6.665  1.00 51.23      ES5
ATOM  38086  O   GLU E  50     175.236 129.588   6.268  1.00 51.23      ES5
ATOM  38087  N   VAL E  51     175.672 127.574   7.186  1.00 45.50      ES5
ATOM  38088  CA  VAL E  51     174.257 127.215   7.307  1.00 45.50      ES5
ATOM  38089  CB  VAL E  51     174.055 126.031   8.281  1.00 30.46      ES5
ATOM  38090  CG1 VAL E  51     172.589 125.941   8.715  1.00 30.46      ES5
ATOM  38091  CG2 VAL E  51     174.480 124.745   7.614  1.00 30.46      ES5
ATOM  38092  C   VAL E  51     173.387 128.384   7.770  1.00 45.50      ES5
ATOM  38093  O   VAL E  51     172.498 128.851   7.042  1.00 45.50      ES5
ATOM  38094  N   PRO E  52     173.627 128.864   8.998  1.00 38.55      ES5
ATOM  38095  CD  PRO E  52     174.612 128.420   9.998  1.00 33.81      ES5
ATOM  38096  CA  PRO E  52     172.852 129.976   9.518  1.00 38.55      ES5
ATOM  38097  CB  PRO E  52     173.689 130.426  10.694  1.00 33.81      ES5
ATOM  38098  CG  PRO E  52     174.149 129.131  11.248  1.00 33.81      ES5
ATOM  38099  C   PRO E  52     172.667 131.052   8.469  1.00 38.55      ES5
ATOM  38100  O   PRO E  52     171.548 131.331   8.066  1.00 38.55      ES5
ATOM  38101  N   LEU E  53     173.754 131.652   8.004  1.00 48.33      ES5
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ATOM  38102  CA  LEU E  53     173.610 132.694   6.993  1.00 48.33      ES5
ATOM  38103  CB  LEU E  53     174.940 132.933   6.278  1.00105.84      ES5
ATOM  38104  CG  LEU E  53     176.075 133.498   7.126  1.00105.84      ES5
ATOM  38105  CD1 LEU E  53     177.314 133.711   6.266  1.00105.84      ES5
ATOM  38106  CD2 LEU E  53     175.625 134.806   7.741  1.00105.84      ES5
ATOM  38107  C   LEU E  53     172.541 132.309   5.964  1.00 48.33      ES5
ATOM  38108  O   LEU E  53     171.738 133.145   5.534  1.00 48.33      ES5
ATOM  38109  N   ALA E  54     172.536 131.032   5.587  1.00 47.61      ES5
ATOM  38110  CA  ALA E  54     171.597 130.528   4.599  1.00 47.61      ES5
ATOM  38111  CB  ALA E  54     172.040 129.178   4.121  1.00 47.36      ES5
ATOM  38112  C   ALA E  54     170.187 130.449   5.148  1.00 47.61      ES5
ATOM  38113  O   ALA E  54     169.240 130.942   4.530  1.00 47.61      ES5
ATOM  38114  N   VAL E  55     170.042 129.822   6.309  1.00 43.52      ES5
ATOM  38115  CA  VAL E  55     168.730 129.701   6.931  1.00 43.52      ES5
ATOM  38116  CB  VAL E  55     168.828 129.130   8.329  1.00 27.75      ES5
ATOM  38117  CG1 VAL E  55     167.526 128.514   8.701  1.00 27.75      ES5
ATOM  38118  CG2 VAL E  55     169.954 128.112   8.399  1.00 27.75      ES5
ATOM  38119  C   VAL E  55     168.131 131.087   7.038  1.00 43.52      ES5
ATOM  38120  O   VAL E  55     166.989 131.307   6.656  1.00 43.52      ES5
ATOM  38121  N   GLN E  56     168.921 132.019   7.560  1.00 49.18      ES5
ATOM  38122  CA  GLN E  56     168.493 133.403   7.714  1.00 49.18      ES5
ATOM  38123  CB  GLN E  56     169.607 134.248   8.339  1.00146.24      ES5
ATOM  38124  CG  GLN E  56     169.626 134.206   9.851  1.00146.24      ES5
ATOM  38125  CD  GLN E  56     169.624 132.792  10.382  1.00146.24      ES5
ATOM  38126  OE1 GLN E  56     170.616 132.074  10.271  1.00146.24      ES5
ATOM  38127  NE2 GLN E  56     168.498 132.376  10.955  1.00146.24      ES5
ATOM  38128  C   GLN E  56     168.125 133.981   6.366  1.00 49.18      ES5
ATOM  38129  O   GLN E  56     167.032 134.519   6.184  1.00 49.18      ES5
ATOM  38130  N   LYS E  57     169.045 133.856   5.420  1.00 58.05      ES5
ATOM  38131  CA  LYS E  57     168.837 134.381   4.082  1.00 58.05      ES5
ATOM  38132  CB  LYS E  57     170.054 134.054   3.208  1.00 80.34      ES5
ATOM  38133  CG  LYS E  57     170.252 135.002   2.028  1.00 80.34      ES5
ATOM  38134  CD  LYS E  57     171.588 134.761   1.315  1.00 80.34      ES5
ATOM  38135  CE  LYS E  57     172.781 134.984   2.248  1.00 80.34      ES5
ATOM  38136  NZ  LYS E  57     174.092 134.747   1.579  1.00 80.34      ES5
ATOM  38137  C   LYS E  57     167.555 133.794   3.495  1.00 58.05      ES5
ATOM  38138  O   LYS E  57     166.815 134.477   2.786  1.00 58.05      ES5
ATOM  38139  N   ALA E  58     167.287 132.531   3.811  1.00 46.74      ES5
ATOM  38140  CA  ALA E  58     166.088 131.863   3.311  1.00 46.74      ES5
ATOM  38141  CB  ALA E  58     166.067 130.400   3.759  1.00 43.54      ES5
ATOM  38142  C   ALA E  58     164.851 132.582   3.830  1.00 46.74      ES5
ATOM  38143  O   ALA E  58     164.039 133.091   3.043  1.00 46.74      ES5
ATOM  38144  N   GLY E  59     164.721 132.611   5.158  1.00 46.44      ES5
ATOM  38145  CA  GLY E  59     163.598 133.271   5.800  1.00 46.44      ES5
ATOM  38146  C   GLY E  59     163.353 134.625   5.173  1.00 46.44      ES5
ATOM  38147  O   GLY E  59     162.226 134.966   4.813  1.00 46.44      ES5
ATOM  38148  N   TYR E  60     164.418 135.403   5.038  1.00 37.86      ES5
ATOM  38149  CA  TYR E  60     164.307 136.715   4.430  1.00 37.86      ES5
ATOM  38150  CB  TYR E  60     165.694 137.354   4.300  1.00 77.09      ES5
ATOM  38151  CG  TYR E  60     165.729 138.612   3.456  1.00 77.09      ES5
ATOM  38152  CD1 TYR E  60     165.040 139.754   3.842  1.00 77.09      ES5
ATOM  38153  CE1 TYR E  60     165.069 140.905   3.058  1.00 77.09      ES5
ATOM  38154  CD2 TYR E  60     166.449 138.652   2.262  1.00 77.09      ES5
ATOM  38155  CE2 TYR E  60     166.480 139.798   1.471  1.00 77.09      ES5
ATOM  38156  CZ  TYR E  60     165.787 140.922   1.875  1.00 77.09      ES5
ATOM  38157  OH  TYR E  60     165.806 142.061   1.101  1.00 77.09      ES5
ATOM  38158  C   TYR E  60     163.681 136.536   3.052  1.00 37.86      ES5
ATOM  38159  O   TYR E  60     162.701 137.193   2.702  1.00 37.86      ES5
ATOM  38160  N   TYR E  61     164.248 135.623   2.273  1.00 57.00      ES5
ATOM  38161  CA  TYR E  61     163.747 135.378   0.936  1.00 57.00      ES5
ATOM  38162  CB  TYR E  61     164.648 134.374   0.227  1.00 90.43      ES5
ATOM  38163  CG  TYR E  61     165.779 135.038  -0.522  1.00 90.43      ES5
ATOM  38164  CD1 TYR E  61     165.508 135.931  -1.553  1.00 90.43      ES5
ATOM  38165  CE1 TYR E  61     166.525 136.544  -2.264  1.00 90.43      ES5
ATOM  38166  CD2 TYR E  61     167.111 134.771  -0.212  1.00 90.43      ES5
ATOM  38167  CE2 TYR E  61     168.145 135.380  -0.920  1.00 90.43      ES5
ATOM  38168  CZ  TYR E  61     167.840 136.267  -1.950  1.00 90.43      ES5
ATOM  38169  OH  TYR E  61     168.833 136.871  -2.689  1.00 90.43      ES5
ATOM  38170  C   TYR E  61     162.310 134.903   0.956  1.00 57.00      ES5
ATOM  38171  O   TYR E  61     161.507 135.306   0.111  1.00 57.00      ES5
ATOM  38172  N   ALA E  62     161.982 134.058   1.931  1.00 42.36      ES5
ATOM  38173  CA  ALA E  62     160.627 133.541   2.054  1.00 42.36      ES5
ATOM  38174  CB  ALA E  62     160.548 132.545   3.190  1.00 55.18      ES5
ATOM  38175  C   ALA E  62     159.648 134.682   2.290  1.00 42.36      ES5
ATOM  38176  O   ALA E  62     158.646 134.799   1.592  1.00 42.36      ES5
ATOM  38177  N   ARG E  63     159.948 135.537   3.263  1.00 48.11      ES5
ATOM  38178  CA  ARG E  63     159.072 136.662   3.578  1.00 48.11      ES5
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ATOM  38179  CB  ARG E  63     159.641 137.462   4.739  1.00 66.43      ES5
ATOM  38180  CG  ARG E  63     159.651 136.695   6.033  1.00 66.43      ES5
ATOM  38181  CD  ARG E  63     160.327 137.503   7.105  1.00 66.43      ES5
ATOM  38182  NE  ARG E  63     159.989 137.022   8.439  1.00 66.43      ES5
ATOM  38183  CZ  ARG E  63     160.457 135.901   8.975  1.00 66.43      ES5
ATOM  38184  NH1 ARG E  63     161.294 135.131   8.291  1.00 66.43      ES5
ATOM  38185  NH2 ARG E  63     160.086 135.554  10.202  1.00 66.43      ES5
ATOM  38186  C   ARG E  63     158.847 137.578   2.392  1.00 48.11      ES5
ATOM  38187  O   ARG E  63     157.889 138.339   2.362  1.00 48.11      ES5
ATOM  38188  N   ARG E  64     159.725 137.495   1.405  1.00 59.37      ES5
ATOM  38189  CA  ARG E  64     159.598 138.328   0.225  1.00 59.37      ES5
ATOM  38190  CB  ARG E  64     160.976 138.586  -0.392  1.00136.63      ES5
ATOM  38191  CG  ARG E  64     162.025 139.086   0.592  1.00136.63      ES5
ATOM  38192  CD  ARG E  64     161.811 140.532   0.997  1.00136.63      ES5
ATOM  38193  NE  ARG E  64     162.245 140.761   2.372  1.00136.63      ES5
ATOM  38194  CZ  ARG E  64     162.282 141.953   2.960  1.00136.63      ES5
ATOM  38195  NH1 ARG E  64     161.916 143.037   2.289  1.00136.63      ES5
ATOM  38196  NH2 ARG E  64     162.672 142.059   4.225  1.00136.63      ES5
ATOM  38197  C   ARG E  64     158.696 137.651  -0.799  1.00 59.37      ES5
ATOM  38198  O   ARG E  64     158.398 138.229  -1.841  1.00 59.37      ES5
ATOM  38199  N   ASN E  65     158.270 136.424  -0.511  1.00121.91      ES5
ATOM  38200  CA  ASN E  65     157.394 135.686  -1.424  1.00121.91      ES5
ATOM  38201  CB  ASN E  65     158.177 134.561  -2.108  1.00 88.56      ES5
ATOM  38202  CG  ASN E  65     157.307 133.722  -3.021  1.00 88.56      ES5
ATOM  38203  OD1 ASN E  65     156.421 134.245  -3.704  1.00 88.56      ES5
ATOM  38204  ND2 ASN E  65     157.562 132.415  -3.050  1.00 88.56      ES5
ATOM  38205  C   ASN E  65     156.186 135.110  -0.685  1.00121.91      ES5
ATOM  38206  O   ASN E  65     156.251 134.005  -0.144  1.00121.91      ES5
ATOM  38207  N   MET E  66     155.079 135.853  -0.685  1.00 47.82      ES5
ATOM  38208  CA  MET E  66     153.872 135.433   0.023  1.00 47.82      ES5
ATOM  38209  CB  MET E  66     153.395 136.550   0.942  1.00 52.15      ES5
ATOM  38210  CG  MET E  66     154.400 136.968   1.991  1.00 52.15      ES5
ATOM  38211  SD  MET E  66     154.822 135.647   3.134  1.00 52.15      ES5
ATOM  38212  CE  MET E  66     153.349 135.572   4.170  1.00 52.15      ES5
ATOM  38213  C   MET E  66     152.718 135.014  -0.867  1.00 47.82      ES5
ATOM  38214  O   MET E  66     152.633 135.415  -2.028  1.00 47.82      ES5
ATOM  38215  N   VAL E  67     151.835 134.195  -0.299  1.00 45.23      ES5
ATOM  38216  CA  VAL E  67     150.654 133.711  -0.997  1.00 45.23      ES5
ATOM  38217  CB  VAL E  67     150.808 132.246  -1.431  1.00 50.87      ES5
ATOM  38218  CG1 VAL E  67     149.626 131.839  -2.308  1.00 50.87      ES5
ATOM  38219  CG2 VAL E  67     152.113 132.057  -2.173  1.00 50.87      ES5
ATOM  38220  C   VAL E  67     149.439 133.810  -0.077  1.00 45.23      ES5
ATOM  38221  O   VAL E  67     149.505 133.444   1.110  1.00 45.23      ES5
ATOM  38222  N   GLU E  68     148.336 134.307  -0.635  1.00 45.84      ES5
ATOM  38223  CA  GLU E  68     147.094 134.467   0.107  1.00 45.84      ES5
ATOM  38224  CB  GLU E  68     146.363 135.719  -0.378  1.00180.22      ES5
ATOM  38225  CG  GLU E  68     146.098 136.751   0.703  1.00180.22      ES5
ATOM  38226  CD  GLU E  68     147.363 137.200   1.403  1.00180.22      ES5
ATOM  38227  OE1 GLU E  68     148.311 137.633   0.712  1.00180.22      ES5
ATOM  38228  OE2 GLU E  68     147.403 137.122   2.647  1.00180.22      ES5
ATOM  38229  C   GLU E  68     146.208 133.240  -0.094  1.00 45.84      ES5
ATOM  38230  O   GLU E  68     145.454 133.161  -1.070  1.00 45.84      ES5
ATOM  38231  N   VAL E  69     146.282 132.294   0.836  1.00 43.06      ES5
ATOM  38232  CA  VAL E  69     145.499 131.068   0.730  1.00 43.06      ES5
ATOM  38233  CB  VAL E  69     146.168 129.914   1.494  1.00 50.68      ES5
ATOM  38234  CG1 VAL E  69     145.329 128.662   1.350  1.00 50.68      ES5
ATOM  38235  CG2 VAL E  69     147.571 129.673   0.963  1.00 50.68      ES5
ATOM  38236  C   VAL E  69     144.068 131.188   1.234  1.00 43.06      ES5
ATOM  38237  O   VAL E  69     143.842 131.483   2.396  1.00 43.06      ES5
ATOM  38238  N   PRO E  70     143.085 130.940   0.359  1.00 46.07      ES5
ATOM  38239  CD  PRO E  70     143.307 130.761  -1.081  1.00 31.44      ES5
ATOM  38240  CA  PRO E  70     141.647 131.001   0.650  1.00 46.07      ES5
ATOM  38241  CB  PRO E  70     141.001 130.848  -0.724  1.00 31.44      ES5
ATOM  38242  CG  PRO E  70     142.047 131.334  -1.652  1.00 31.44      ES5
ATOM  38243  C   PRO E  70     141.190 129.890   1.574  1.00 46.07      ES5
ATOM  38244  O   PRO E  70     140.670 128.881   1.109  1.00 46.07      ES5
ATOM  38245  N   LEU E  71     141.369 130.061   2.875  1.00 42.32      ES5
ATOM  38246  CA  LEU E  71     140.946 129.034   3.816  1.00 42.32      ES5
ATOM  38247  CB  LEU E  71     141.594 129.302   5.171  1.00 57.53      ES5
ATOM  38248  CG  LEU E  71     143.117 129.249   5.072  1.00 57.53      ES5
ATOM  38249  CD1 LEU E  71     143.766 129.806   6.329  1.00 57.53      ES5
ATOM  38250  CD2 LEU E  71     143.537 127.801   4.830  1.00 57.53      ES5
ATOM  38251  C   LEU E  71     139.415 128.919   3.954  1.00 42.32      ES5
ATOM  38252  O   LEU E  71     138.684 129.877   3.723  1.00 42.32      ES5
ATOM  38253  N   GLN E  72     138.935 127.729   4.306  1.00 72.52      ES5
ATOM  38254  CA  GLN E  72     137.506 127.501   4.472  1.00 72.52      ES5
ATOM  38255  CB  GLN E  72     136.872 127.044   3.173  1.00 44.57      ES5
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ATOM  38256  CG  GLN E  72     137.211 127.909   2.014  1.00 44.57       ES5
ATOM  38257  CD  GLN E  72     136.179 127.799   0.925  1.00 44.57       ES5
ATOM  38258  OE1 GLN E  72     135.535 126.757   0.773  1.00 44.57       ES5
ATOM  38259  NE2 GLN E  72     136.013 128.873   0.146  1.00 44.57       ES5
ATOM  38260  C   GLN E  72     137.259 126.439   5.515  1.00 72.52       ES5
ATOM  38261  O   GLN E  72     137.383 125.250   5.239  1.00 72.52       ES5
ATOM  38262  N   ASN E  73     136.910 126.868   6.718  1.00119.96       ES5
ATOM  38263  CA  ASN E  73     136.643 125.931   7.790  1.00119.96       ES5
ATOM  38264  CB  ASN E  73     135.581 124.930   7.338  1.00118.46       ES5
ATOM  38265  CG  ASN E  73     134.962 124.180   8.490  1.00118.46       ES5
ATOM  38266  OD1 ASN E  73     134.058 123.367   8.297  1.00118.46       ES5
ATOM  38267  ND2 ASN E  73     135.441 124.449   9.702  1.00118.46       ES5
ATOM  38268  C   ASN E  73     137.942 125.214   8.143  1.00119.96       ES5
ATOM  38269  O   ASN E  73     138.027 124.518   9.157  1.00119.96       ES5
ATOM  38270  N   GLY E  74     138.954 125.396   7.296  1.00 51.57       ES5
ATOM  38271  CA  GLY E  74     140.250 124.781   7.534  1.00 51.57       ES5
ATOM  38272  C   GLY E  74     140.815 124.074   6.320  1.00 51.57       ES5
ATOM  38273  O   GLY E  74     141.982 123.660   6.289  1.00 51.57       ES5
ATOM  38274  N   THR E  75     139.974 123.942   5.305  1.00 16.68       ES5
ATOM  38275  CA  THR E  75     140.379 123.267   4.097  1.00 16.68       ES5
ATOM  38276  CB  THR E  75     139.364 122.222   3.647  1.00 39.57       ES5
ATOM  38277  OG1 THR E  75     139.994 121.318   2.735  1.00 39.57       ES5
ATOM  38278  CG2 THR E  75     138.187 122.892   2.937  1.00 39.57       ES5
ATOM  38279  C   THR E  75     140.524 124.255   2.981  1.00 16.68       ES5
ATOM  38280  O   THR E  75     140.443 125.464   3.180  1.00 16.68       ES5
ATOM  38281  N   ILE E  76     140.701 123.696   1.792  1.00 28.97       ES5
ATOM  38282  CA  ILE E  76     140.923 124.442   0.577  1.00 28.97       ES5
ATOM  38283  CB  ILE E  76     142.106 123.766  -0.189  1.00 69.77       ES5
ATOM  38284  CG2 ILE E  76     141.625 122.604  -1.020  1.00 69.77       ES5
ATOM  38285  CG1 ILE E  76     142.855 124.799  -1.006  1.00 69.77       ES5
ATOM  38286  CD1 ILE E  76     143.579 125.787  -0.134  1.00 69.77       ES5
ATOM  38287  C   ILE E  76     139.641 124.479  -0.248  1.00 28.97       ES5
ATOM  38288  O   ILE E  76     138.814 123.571  -0.181  1.00 28.97       ES5
ATOM  38289  N   PRO E  77     139.452 125.544  -1.029  1.00 38.82       ES5
ATOM  38290  CD  PRO E  77     140.367 126.683  -1.125  1.00 39.58       ES5
ATOM  38291  CA  PRO E  77     138.284 125.757  -1.891  1.00 38.82       ES5
ATOM  38292  CB  PRO E  77     138.498 127.162  -2.424  1.00 39.58       ES5
ATOM  38293  CG  PRO E  77     139.963 127.258  -2.467  1.00 39.58       ES5
ATOM  38294  C   PRO E  77     138.073 124.762  -3.021  1.00 38.82       ES5
ATOM  38295  O   PRO E  77     137.098 124.877  -3.758  1.00 38.82       ES5
ATOM  38296  N   HIS E  78     138.980 123.800  -3.170  1.00 51.95       ES5
ATOM  38297  CA  HIS E  78     138.859 122.776  -4.208  1.00 51.95       ES5
ATOM  38298  CB  HIS E  78     138.320 123.368  -5.515  1.00 59.05       ES5
ATOM  38299  CG  HIS E  78     139.231 124.364  -6.152  1.00 59.05       ES5
ATOM  38300  CD2 HIS E  78     139.134 125.709  -6.277  1.00 59.05       ES5
ATOM  38301  ND1 HIS E  78     140.409 124.006  -6.766  1.00 59.05       ES5
ATOM  38302  CE1 HIS E  78     141.000 125.088  -7.245  1.00 59.05       ES5
ATOM  38303  NE2 HIS E  78     140.246 126.135  -6.963  1.00 59.05       ES5
ATOM  38304  C   HIS E  78     140.162 122.054  -4.491  1.00 51.95       ES5
ATOM  38305  O   HIS E  78     141.150 122.209  -3.771  1.00 51.95       ES5
ATOM  38306  N   GLU E  79     140.160 121.265  -5.557  1.00 45.79       ES5
ATOM  38307  CA  GLU E  79     141.337 120.502  -5.919  1.00 45.79       ES5
ATOM  38308  CB  GLU E  79     140.947 119.114  -6.430  1.00142.61       ES5
ATOM  38309  CG  GLU E  79     139.827 118.461  -5.655  1.00142.61       ES5
ATOM  38310  CD  GLU E  79     138.457 118.855  -6.174  1.00142.61       ES5
ATOM  38311  OE1 GLU E  79     138.246 120.052  -6.459  1.00142.61       ES5
ATOM  38312  OE2 GLU E  79     137.587 117.966  -6.294  1.00142.61       ES5
ATOM  38313  C   GLU E  79     142.123 121.210  -6.985  1.00 45.79       ES5
ATOM  38314  O   GLU E  79     141.572 121.938  -7.794  1.00 45.79       ES5
ATOM  38315  N   ILE E  80     143.427 121.001  -6.954  1.00 38.39       ES5
ATOM  38316  CA  ILE E  80     144.341 121.555  -7.935  1.00 38.39       ES5
ATOM  38317  CB  ILE E  80     145.123 122.817  -7.439  1.00 31.45       ES5
ATOM  38318  CG2 ILE E  80     144.722 124.057  -8.195  1.00 31.45       ES5
ATOM  38319  CG1 ILE E  80     144.929 122.972  -5.945  1.00 31.45       ES5
ATOM  38320  CD1 ILE E  80     145.380 121.767  -5.180  1.00 31.45       ES5
ATOM  38321  C   ILE E  80     145.362 120.444  -8.057  1.00 38.39       ES5
ATOM  38322  O   ILE E  80     145.561 119.658  -7.111  1.00 38.39       ES5
ATOM  38323  N   GLU E  81     145.980 120.382  -9.231  1.00 48.37       ES5
ATOM  38324  CA  GLU E  81     147.036 119.436  -9.540  1.00 48.37       ES5
ATOM  38325  CB  GLU E  81     146.551 118.343 -10.498  1.00127.16       ES5
ATOM  38326  CG  GLU E  81     146.215 117.026  -9.816  1.00127.16       ES5
ATOM  38327  CD  GLU E  81     145.873 115.915 -10.800  1.00127.16       ES5
ATOM  38328  OE1 GLU E  81     146.680 115.658 -11.720  1.00127.16       ES5
ATOM  38329  OE2 GLU E  81     144.799 115.291 -10.648  1.00127.16       ES5
ATOM  38330  C   GLU E  81     148.045 120.325 -10.238  1.00 48.37       ES5
ATOM  38331  O   GLU E  81     147.809 120.781 -11.355  1.00 48.37       ES5
ATOM  38332  N   VAL E  82     149.151 120.609  -9.566  1.00 33.84       ES5
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ATOM  38333  CA  VAL E  82     150.184 121.456 -10.152  1.00 33.84       ES5
ATOM  38334  CB  VAL E  82     150.489 122.669  -9.234  1.00 40.53       ES5
ATOM  38335  CG1 VAL E  82     151.855 123.220  -9.520  1.00 40.53       ES5
ATOM  38336  CG2 VAL E  82     149.460 123.755  -9.462  1.00 40.53       ES5
ATOM  38337  C   VAL E  82     151.463 120.667 -10.421  1.00 33.84       ES5
ATOM  38338  O   VAL E  82     151.919 119.883  -9.580  1.00 33.84       ES5
ATOM  38339  N   GLU E  83     152.024 120.871 -11.609  1.00 40.12       ES5
ATOM  38340  CA  GLU E  83     153.256 120.195 -11.997  1.00 40.12       ES5
ATOM  38341  CB  GLU E  83     153.120 119.585 -13.388  1.00148.57       ES5
ATOM  38342  CG  GLU E  83     151.964 118.636 -13.576  1.00148.57       ES5
ATOM  38343  CD  GLU E  83     151.940 118.065 -14.979  1.00148.57       ES5
ATOM  38344  OE1 GLU E  83     152.920 117.389 -15.357  1.00148.57       ES5
ATOM  38345  OE2 GLU E  83     150.949 118.298 -15.706  1.00148.57       ES5
ATOM  38346  C   GLU E  83     154.423 121.173 -12.035  1.00 40.12       ES5
ATOM  38347  O   GLU E  83     154.356 122.194 -12.716  1.00 40.12       ES5
ATOM  38348  N   PHE E  84     155.484 120.880 -11.298  1.00 41.75       ES5
ATOM  38349  CA  PHE E  84     156.653 121.740 -11.340  1.00 41.75       ES5
ATOM  38350  CB  PHE E  84     156.985 122.331  -9.975  1.00 46.83       ES5
ATOM  38351  CG  PHE E  84     157.918 123.502 -10.053  1.00 46.83       ES5
ATOM  38352  CD1 PHE E  84     157.520 124.677 -10.674  1.00 46.83       ES5
ATOM  38353  CD2 PHE E  84     159.205 123.427  -9.542  1.00 46.83       ES5
ATOM  38354  CE1 PHE E  84     158.395 125.757 -10.786  1.00 46.83       ES5
ATOM  38355  CE2 PHE E  84     160.090 124.516  -9.653  1.00 46.83       ES5
ATOM  38356  CZ  PHE E  84     159.681 125.674 -10.274  1.00 46.83       ES5
ATOM  38357  C   PHE E  84     157.810 120.877 -11.818  1.00 41.75       ES5
ATOM  38358  O   PHE E  84     158.364 120.073 -11.059  1.00 41.75       ES5
ATOM  38359  N   GLY E  85     158.164 121.040 -13.088  1.00 36.18       ES5
ATOM  38360  CA  GLY E  85     159.233 120.244 -13.641  1.00 36.18       ES5
ATOM  38361  C   GLY E  85     158.784 118.804 -13.656  1.00 36.18       ES5
ATOM  38362  O   GLY E  85     157.826 118.458 -14.339  1.00 36.18       ES5
ATOM  38363  N   ALA E  86     159.459 117.956 -12.895  1.00 57.87       ES5
ATOM  38364  CA  ALA E  86     159.085 116.550 -12.860  1.00 57.87       ES5
ATOM  38365  CB  ALA E  86     160.328 115.680 -12.860  1.00172.12       ES5
ATOM  38366  C   ALA E  86     158.256 116.264 -11.625  1.00 57.87       ES5
ATOM  38367  O   ALA E  86     157.700 115.176 -11.474  1.00 57.87       ES5
ATOM  38368  N   SER E  87     158.182 117.246 -10.735  1.00 39.65       ES5
ATOM  38369  CA  SER E  87     157.426 117.070  -9.515  1.00 39.65       ES5
ATOM  38370  CB  SER E  87     158.089 117.834  -8.375  1.00 54.70       ES5
ATOM  38371  OG  SER E  87     159.389 117.324  -8.125  1.00 54.70       ES5
ATOM  38372  C   SER E  87     156.003 117.539  -9.731  1.00 39.65       ES5
ATOM  38373  O   SER E  87     155.760 118.564 -10.366  1.00 39.65       ES5
ATOM  38374  N   LYS E  88     155.063 116.767  -9.210  1.00 28.58       ES5
ATOM  38375  CA  LYS E  88     153.658 117.076  -9.357  1.00 28.58       ES5
ATOM  38376  CB  LYS E  88     153.042 116.107 -10.366  1.00 56.99       ES5
ATOM  38377  CG  LYS E  88     151.573 116.290 -10.708  1.00 56.99       ES5
ATOM  38378  CD  LYS E  88     151.251 115.450 -11.965  1.00 56.99       ES5
ATOM  38379  CE  LYS E  88     149.765 115.436 -12.376  1.00 56.99       ES5
ATOM  38380  NZ  LYS E  88     148.936 114.399 -11.665  1.00 56.99       ES5
ATOM  38381  C   LYS E  88     153.051 116.889  -7.974  1.00 28.58       ES5
ATOM  38382  O   LYS E  88     153.319 115.893  -7.290  1.00 28.58       ES5
ATOM  38383  N   ILE E  89     152.265 117.874  -7.546  1.00 37.89       ES5
ATOM  38384  CA  ILE E  89     151.617 117.813  -6.250  1.00 37.89       ES5
ATOM  38385  CB  ILE E  89     152.059 118.975  -5.340  1.00 40.77       ES5
ATOM  38386  CG2 ILE E  89     151.106 120.151  -5.468  1.00 40.77       ES5
ATOM  38387  CG1 ILE E  89     152.151 118.486  -3.892  1.00 40.77       ES5
ATOM  38388  CD1 ILE E  89     150.888 117.901  -3.356  1.00 40.77       ES5
ATOM  38389  C   ILE E  89     150.131 117.893  -6.506  1.00 37.89       ES5
ATOM  38390  O   ILE E  89     149.676 118.639  -7.371  1.00 37.89       ES5
ATOM  38391  N   VAL E  90     149.387 117.094  -5.760  1.00 36.47       ES5
ATOM  38392  CA  VAL E  90     147.943 117.030  -5.886  1.00 36.47       ES5
ATOM  38393  CB  VAL E  90     147.504 115.598  -6.248  1.00 41.76       ES5
ATOM  38394  CG1 VAL E  90     146.010 115.458  -6.135  1.00 41.76       ES5
ATOM  38395  CG2 VAL E  90     147.947 115.268  -7.648  1.00 41.76       ES5
ATOM  38396  C   VAL E  90     147.319 117.415  -4.554  1.00 36.47       ES5
ATOM  38397  O   VAL E  90     147.628 116.816  -3.516  1.00 36.47       ES5
ATOM  38398  N   LEU E  91     146.458 118.425  -4.566  1.00 46.15       ES5
ATOM  38399  CA  LEU E  91     145.806 118.816  -3.330  1.00 46.15       ES5
ATOM  38400  CB  LEU E  91     146.106 120.276  -2.977  1.00 27.20       ES5
ATOM  38401  CG  LEU E  91     147.557 120.748  -2.825  1.00 27.20       ES5
ATOM  38402  CD1 LEU E  91     147.555 122.227  -2.478  1.00 27.20       ES5
ATOM  38403  CD2 LEU E  91     148.276 119.940  -1.749  1.00 27.20       ES5
ATOM  38404  C   LEU E  91     144.315 118.608  -3.522  1.00 46.15       ES5
ATOM  38405  O   LEU E  91     143.770 118.956  -4.565  1.00 46.15       ES5
ATOM  38406  N   LYS E  92     143.676 118.028  -2.508  1.00 32.20       ES5
ATOM  38407  CA  LYS E  92     142.250 117.723  -2.524  1.00 32.20       ES5
ATOM  38408  CB  LYS E  92     142.086 116.218  -2.721  1.00 61.41       ES5
ATOM  38409  CG  LYS E  92     140.680 115.726  -2.952  1.00 61.41       ES5
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ATOM  38410  CD  LYS E  92     140.690 114.217  -3.164  1.00 61.41       ES5
ATOM  38411  CE  LYS E  92     139.287 113.639  -3.196  1.00 61.41       ES5
ATOM  38412  NZ  LYS E  92     139.271 112.196  -2.792  1.00 61.41       ES5
ATOM  38413  C   LYS E  92     141.629 118.170  -1.188  1.00 32.20       ES5
ATOM  38414  O   LYS E  92     142.152 117.882  -0.104  1.00 32.20       ES5
ATOM  38415  N   PRO E  93     140.504 118.891  -1.244  1.00 25.20       ES5
ATOM  38416  CD  PRO E  93     139.852 119.488  -2.419  1.00 16.52       ES5
ATOM  38417  CA  PRO E  93     139.879 119.346  -0.001  1.00 25.20       ES5
ATOM  38418  CB  PRO E  93     138.856 120.364  -0.478  1.00 16.52       ES5
ATOM  38419  CG  PRO E  93     138.544 119.929  -1.854  1.00 16.52       ES5
ATOM  38420  C   PRO E  93     139.272 118.252   0.836  1.00 25.20       ES5
ATOM  38421  O   PRO E  93     138.840 117.226   0.315  1.00 25.20       ES5
ATOM  38422  N   ALA E  94     139.243 118.473   2.145  1.00 50.72       ES5
ATOM  38423  CA  ALA E  94     138.693 117.487   3.060  1.00 50.72       ES5
ATOM  38424  CB  ALA E  94     139.822 116.779   3.773  1.00 29.00       ES5
ATOM  38425  C   ALA E  94     137.735 118.088   4.083  1.00 50.72       ES5
ATOM  38426  O   ALA E  94     137.620 119.301   4.204  1.00 50.72       ES5
ATOM  38427  N   ALA E  95     137.033 117.224   4.808  1.00 52.75       ES5
ATOM  38428  CA  ALA E  95     136.113 117.666   5.844  1.00 52.75       ES5
ATOM  38429  CB  ALA E  95     135.023 116.648   6.045  1.00 38.68       ES5
ATOM  38430  C   ALA E  95     136.927 117.796   7.117  1.00 52.75       ES5
ATOM  38431  O   ALA E  95     138.038 117.277   7.209  1.00 52.75       ES5
ATOM  38432  N   PRO E  96     136.386 118.485   8.124  1.00 54.48       ES5
ATOM  38433  CD  PRO E  96     135.122 119.228   8.191  1.00 30.13       ES5
ATOM  38434  CA  PRO E  96     137.134 118.637   9.368  1.00 54.48       ES5
ATOM  38435  CB  PRO E  96     136.220 119.497  10.209  1.00 30.13       ES5
ATOM  38436  CG  PRO E  96     135.456 120.260   9.200  1.00 30.13       ES5
ATOM  38437  C   PRO E  96     137.373 117.289  10.005  1.00 54.48       ES5
ATOM  38438  O   PRO E  96     136.817 116.283   9.565  1.00 54.48       ES5
ATOM  38439  N   GLY E  97     138.200 117.272  11.041  1.00 81.05       ES5
ATOM  38440  CA  GLY E  97     138.484 116.029  11.726  1.00 81.05       ES5
ATOM  38441  C   GLY E  97     139.385 115.135  10.910  1.00 81.05       ES5
ATOM  38442  O   GLY E  97     139.771 114.051  11.353  1.00 81.05       ES5
ATOM  38443  N   THR E  98     139.722 115.593   9.711  1.00 48.29       ES5
ATOM  38444  CA  THR E  98     140.588 114.829   8.831  1.00 48.29       ES5
ATOM  38445  CB  THR E  98     140.416 115.230   7.380  1.00 31.13       ES5
ATOM  38446  OG1 THR E  98     139.081 114.941   6.948  1.00 31.13       ES5
ATOM  38447  CG2 THR E  98     141.402 114.471   6.537  1.00 31.13       ES5
ATOM  38448  C   THR E  98     142.036 115.082   9.183  1.00 48.29       ES5
ATOM  38449  O   THR E  98     142.781 114.171   9.536  1.00 48.29       ES5
ATOM  38450  N   GLY E  99     142.431 116.340   9.078  1.00 62.82       ES5
ATOM  38451  CA  GLY E  99     143.797 116.698   9.374  1.00 62.82       ES5
ATOM  38452  C   GLY E  99     144.558 116.923   8.087  1.00 62.82       ES5
ATOM  38453  O   GLY E  99     143.987 116.906   6.985  1.00 62.82       ES5
ATOM  38454  N   VAL E 100     145.858 117.142   8.224  1.00 61.02       ES5
ATOM  38455  CA  VAL E 100     146.678 117.369   7.058  1.00 61.02       ES5
ATOM  38456  CB  VAL E 100     147.740 118.442   7.302  1.00 33.36       ES5
ATOM  38457  CG1 VAL E 100     148.531 118.676   6.033  1.00 33.36       ES5
ATOM  38458  CG2 VAL E 100     147.079 119.731   7.730  1.00 33.36       ES5
ATOM  38459  C   VAL E 100     147.372 116.088   6.689  1.00 61.02       ES5
ATOM  38460  O   VAL E 100     148.330 115.681   7.342  1.00 61.02       ES5
ATOM  38461  N   ILE E 101     146.860 115.442   5.650  1.00 29.84       ES5
ATOM  38462  CA  ILE E 101     147.456 114.210   5.156  1.00 29.84       ES5
ATOM  38463  CB  ILE E 101     146.413 113.307   4.574  1.00 27.09       ES5
ATOM  38464  CG2 ILE E 101     147.093 112.091   3.971  1.00 27.09       ES5
ATOM  38465  CG1 ILE E 101     145.406 112.946   5.653  1.00 27.09       ES5
ATOM  38466  CD1 ILE E 101     144.172 112.340   5.094  1.00 27.09       ES5
ATOM  38467  C   ILE E 101     148.442 114.582   4.052  1.00 29.84       ES5
ATOM  38468  O   ILE E 101     148.062 114.821   2.899  1.00 29.84       ES5
ATOM  38469  N   ALA E 102     149.719 114.622   4.394  1.00 27.97       ES5
ATOM  38470  CA  ALA E 102     150.660 115.035   3.387  1.00 27.97       ES5
ATOM  38471  CB  ALA E 102     150.492 116.543   3.168  1.00  9.62       ES5
ATOM  38472  C   ALA E 102     152.108 114.708   3.683  1.00 27.97       ES5
ATOM  38473  O   ALA E 102     152.459 114.304   4.783  1.00 27.97       ES5
ATOM  38474  N   GLY E 103     152.945 114.881   2.672  1.00 45.41       ES5
ATOM  38475  CA  GLY E 103     154.355 114.654   2.865  1.00 45.41       ES5
ATOM  38476  C   GLY E 103     154.891 115.829   3.667  1.00 45.41       ES5
ATOM  38477  O   GLY E 103     154.337 116.937   3.629  1.00 45.41       ES5
ATOM  38478  N   ALA E 104     155.977 115.590   4.388  1.00 41.36       ES5
ATOM  38479  CA  ALA E 104     156.594 116.607   5.215  1.00 41.36       ES5
ATOM  38480  CB  ALA E 104     157.916 116.136   5.659  1.00 29.40       ES5
ATOM  38481  C   ALA E 104     156.739 117.969   4.560  1.00 41.36       ES5
ATOM  38482  O   ALA E 104     156.597 119.000   5.220  1.00 41.36       ES5
ATOM  38483  N   VAL E 105     157.037 117.996   3.271  1.00 31.34       ES5
ATOM  38484  CA  VAL E 105     157.183 119.282   2.623  1.00 31.34       ES5
ATOM  38485  CB  VAL E 105     157.862 119.136   1.261  1.00 30.55       ES5
ATOM  38486  CG1 VAL E 105     157.949 120.485   0.558  1.00 30.55       ES5
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ATOM  38487  CG2 VAL E 105     159.250 118.577   1.466  1.00 30.55      ES5
ATOM  38488  C   VAL E 105     155.835 119.984   2.477  1.00 31.34      ES5
ATOM  38489  O   VAL E 105     155.623 121.057   3.050  1.00 31.34      ES5
ATOM  38490  N   PRO E 106     154.898 119.388   1.725  1.00 43.46      ES5
ATOM  38491  CD  PRO E 106     154.920 118.088   1.041  1.00 61.52      ES5
ATOM  38492  CA  PRO E 106     153.595 120.032   1.559  1.00 43.46      ES5
ATOM  38493  CB  PRO E 106     152.765 118.952   0.883  1.00 61.52      ES5
ATOM  38494  CG  PRO E 106     153.768 118.230   0.077  1.00 61.52      ES5
ATOM  38495  C   PRO E 106     153.026 120.423   2.909  1.00 43.46      ES5
ATOM  38496  O   PRO E 106     152.454 121.502   3.075  1.00 43.46      ES5
ATOM  38497  N   ARG E 107     153.189 119.531   3.874  1.00 36.46      ES5
ATOM  38498  CA  ARG E 107     152.692 119.782   5.215  1.00 36.46      ES5
ATOM  38499  CB  ARG E 107     153.164 118.672   6.140  1.00 62.15      ES5
ATOM  38500  CG  ARG E 107     152.936 118.940   7.586  1.00 62.15      ES5
ATOM  38501  CD  ARG E 107     153.107 117.664   8.363  1.00 62.15      ES5
ATOM  38502  NE  ARG E 107     151.876 116.887   8.361  1.00 62.15      ES5
ATOM  38503  CZ  ARG E 107     151.833 115.566   8.237  1.00 62.15      ES5
ATOM  38504  NH1 ARG E 107     152.962 114.878   8.099  1.00 62.15      ES5
ATOM  38505  NH2 ARG E 107     150.665 114.934   8.259  1.00 62.15      ES5
ATOM  38506  C   ARG E 107     153.192 121.140   5.687  1.00 36.46      ES5
ATOM  38507  O   ARG E 107     152.471 122.129   5.614  1.00 36.46      ES5
ATOM  38508  N   ALA E 108     154.432 121.185   6.152  1.00 43.80      ES5
ATOM  38509  CA  ALA E 108     155.044 122.426   6.612  1.00 43.80      ES5
ATOM  38510  CB  ALA E 108     156.545 122.357   6.394  1.00 57.14      ES5
ATOM  38511  C   ALA E 108     154.481 123.695   5.951  1.00 43.80      ES5
ATOM  38512  O   ALA E 108     154.388 124.732   6.585  1.00 43.80      ES5
ATOM  38513  N   ILE E 109     154.131 123.629   4.676  1.00 31.79      ES5
ATOM  38514  CA  ILE E 109     153.569 124.789   4.014  1.00 31.79      ES5
ATOM  38515  CB  ILE E 109     153.664 124.683   2.492  1.00 33.36      ES5
ATOM  38516  CG2 ILE E 109     152.712 125.699   1.839  1.00 33.36      ES5
ATOM  38517  CG1 ILE E 109     155.129 124.833   2.060  1.00 33.36      ES5
ATOM  38518  CD1 ILE E 109     155.349 124.779   0.557  1.00 33.36      ES5
ATOM  38519  C   ILE E 109     152.113 124.845   4.390  1.00 31.79      ES5
ATOM  38520  O   ILE E 109     151.687 125.745   5.104  1.00 31.79      ES5
ATOM  38521  N   LEU E 110     151.344 123.876   3.903  1.00 29.58      ES5
ATOM  38522  CA  LEU E 110     149.917 123.808   4.203  1.00 29.58      ES5
ATOM  38523  CB  LEU E 110     149.395 122.396   3.939  1.00 37.40      ES5
ATOM  38524  CG  LEU E 110     149.442 121.991   2.467  1.00 37.40      ES5
ATOM  38525  CD1 LEU E 110     149.112 120.520   2.326  1.00 37.40      ES5
ATOM  38526  CD2 LEU E 110     148.461 122.827   1.666  1.00 37.40      ES5
ATOM  38527  C   LEU E 110     149.644 124.204   5.652  1.00 29.58      ES5
ATOM  38528  O   LEU E 110     148.796 125.037   5.909  1.00 29.58      ES5
ATOM  38529  N   GLU E 111     150.377 123.621   6.594  1.00 38.67      ES5
ATOM  38530  CA  GLU E 111     150.183 123.945   7.997  1.00 38.67      ES5
ATOM  38531  CB  GLU E 111     151.122 123.134   8.888  1.00136.16      ES5
ATOM  38532  CG  GLU E 111     150.866 121.641   8.865  1.00136.16      ES5
ATOM  38533  CD  GLU E 111     151.452 120.939  10.074  1.00136.16      ES5
ATOM  38534  OE1 GLU E 111     152.610 121.246  10.442  1.00136.16      ES5
ATOM  38535  OE2 GLU E 111     150.758 120.076  10.654  1.00136.16      ES5
ATOM  38536  C   GLU E 111     150.377 125.428   8.281  1.00 38.67      ES5
ATOM  38537  O   GLU E 111     149.446 126.108   8.715  1.00 38.67      ES5
ATOM  38538  N   LEU E 112     151.575 125.944   8.052  1.00 43.12      ES5
ATOM  38539  CA  LEU E 112     151.786 127.351   8.308  1.00 43.12      ES5
ATOM  38540  CB  LEU E 112     153.248 127.726   8.123  1.00 40.60      ES5
ATOM  38541  CG  LEU E 112     154.204 126.959   9.043  1.00 40.60      ES5
ATOM  38542  CD1 LEU E 112     155.527 127.680   9.086  1.00 40.60      ES5
ATOM  38543  CD2 LEU E 112     153.653 126.870  10.447  1.00 40.60      ES5
ATOM  38544  C   LEU E 112     150.911 128.167   7.380  1.00 43.12      ES5
ATOM  38545  O   LEU E 112     150.799 129.376   7.524  1.00 43.12      ES5
ATOM  38546  N   ALA E 113     150.276 127.509   6.423  1.00 42.17      ES5
ATOM  38547  CA  ALA E 113     149.406 128.220   5.507  1.00 42.17      ES5
ATOM  38548  CB  ALA E 113     149.221 127.410   4.240  1.00 62.74      ES5
ATOM  38549  C   ALA E 113     148.069 128.424   6.203  1.00 42.17      ES5
ATOM  38550  O   ALA E 113     147.206 129.167   5.735  1.00 42.17      ES5
ATOM  38551  N   GLY E 114     147.906 127.758   7.337  1.00 42.98      ES5
ATOM  38552  CA  GLY E 114     146.659 127.853   8.058  1.00 42.98      ES5
ATOM  38553  C   GLY E 114     145.659 126.866   7.487  1.00 42.98      ES5
ATOM  38554  O   GLY E 114     144.487 127.184   7.323  1.00 42.98      ES5
ATOM  38555  N   VAL E 115     146.118 125.660   7.175  1.00 57.24      ES5
ATOM  38556  CA  VAL E 115     145.245 124.632   6.613  1.00 57.24      ES5
ATOM  38557  CB  VAL E 115     145.781 124.104   5.279  1.00 31.35      ES5
ATOM  38558  CG1 VAL E 115     144.950 122.921   4.838  1.00 31.35      ES5
ATOM  38559  CG2 VAL E 115     145.752 125.218   4.226  1.00 31.35      ES5
ATOM  38560  C   VAL E 115     145.175 123.480   7.583  1.00 57.24      ES5
ATOM  38561  O   VAL E 115     146.206 122.927   7.962  1.00 57.24      ES5
ATOM  38562  N   THR E 116     143.960 123.106   7.971  1.00 50.33      ES5
ATOM  38563  CA  THR E 116     143.784 122.027   8.943  1.00 50.33      ES5
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ATOM  38564  CB  THR E 116     142.819 122.465  10.052  1.00 78.06       ES5
ATOM  38565  OG1 THR E 116     142.875 121.521  11.124  1.00 78.06       ES5
ATOM  38566  CG2 THR E 116     141.395 122.540   9.519  1.00 78.06       ES5
ATOM  38567  C   THR E 116     143.311 120.674   8.387  1.00 50.33       ES5
ATOM  38568  O   THR E 116     143.613 119.623   8.956  1.00 50.33       ES5
ATOM  38569  N   ASP E 117     142.571 120.706   7.285  1.00 50.27       ES5
ATOM  38570  CA  ASP E 117     142.066 119.488   6.673  1.00 50.27       ES5
ATOM  38571  CB  ASP E 117     140.580 119.325   6.980  1.00123.56       ES5
ATOM  38572  CG  ASP E 117     140.295 119.320   8.466  1.00123.56       ES5
ATOM  38573  OD1 ASP E 117     140.736 118.377   9.157  1.00123.56       ES5
ATOM  38574  OD2 ASP E 117     139.634 120.265   8.946  1.00123.56       ES5
ATOM  38575  C   ASP E 117     142.281 119.533   5.172  1.00 50.27       ES5
ATOM  38576  O   ASP E 117     141.734 120.398   4.481  1.00 50.27       ES5
ATOM  38577  N   ILE E 118     143.087 118.592   4.683  1.00 47.40       ES5
ATOM  38578  CA  ILE E 118     143.404 118.492   3.261  1.00 47.40       ES5
ATOM  38579  CB  ILE E 118     144.428 119.569   2.849  1.00 27.86       ES5
ATOM  38580  CG2 ILE E 118     145.788 119.259   3.457  1.00 27.86       ES5
ATOM  38581  CG1 ILE E 118     144.562 119.625   1.332  1.00 27.86       ES5
ATOM  38582  CD1 ILE E 118     145.478 120.747   0.868  1.00 27.86       ES5
ATOM  38583  C   ILE E 118     143.983 117.121   2.914  1.00 47.40       ES5
ATOM  38584  O   ILE E 118     144.661 116.480   3.732  1.00 47.40       ES5
ATOM  38585  N   LEU E 119     143.688 116.684   1.693  1.00 41.77       ES5
ATOM  38586  CA  LEU E 119     144.164 115.415   1.158  1.00 41.77       ES5
ATOM  38587  CB  LEU E 119     143.022 114.670   0.467  1.00 45.73       ES5
ATOM  38588  CG  LEU E 119     141.815 114.278   1.325  1.00 45.73       ES5
ATOM  38589  CD1 LEU E 119     140.869 113.407   0.502  1.00 45.73       ES5
ATOM  38590  CD2 LEU E 119     142.280 113.515   2.556  1.00 45.73       ES5
ATOM  38591  C   LEU E 119     145.248 115.759   0.143  1.00 41.77       ES5
ATOM  38592  O   LEU E 119     145.013 116.512  -0.802  1.00 41.77       ES5
ATOM  38593  N   THR E 120     146.431 115.191   0.339  1.00 41.39       ES5
ATOM  38594  CA  THR E 120     147.576 115.467  -0.509  1.00 41.39       ES5
ATOM  38595  CB  THR E 120     148.634 116.165   0.309  1.00 40.21       ES5
ATOM  38596  OG1 THR E 120     148.637 117.552  -0.038  1.00 40.21       ES5
ATOM  38597  CG2 THR E 120     150.014 115.531   0.090  1.00 40.21       ES5
ATOM  38598  C   THR E 120     148.211 114.244  -1.109  1.00 41.39       ES5
ATOM  38599  O   THR E 120     148.052 113.156  -0.589  1.00 41.39       ES5
ATOM  38600  N   LYS E 121     148.949 114.428  -2.199  1.00 28.45       ES5
ATOM  38601  CA  LYS E 121     149.669 113.323  -2.833  1.00 28.45       ES5
ATOM  38602  CB  LYS E 121     148.722 112.389  -3.563  1.00 32.05       ES5
ATOM  38603  CG  LYS E 121     149.439 111.255  -4.265  1.00 32.05       ES5
ATOM  38604  CD  LYS E 121     150.483 110.612  -3.383  1.00 32.05       ES5
ATOM  38605  CE  LYS E 121     151.008 109.343  -4.041  1.00 32.05       ES5
ATOM  38606  NZ  LYS E 121     152.215 108.766  -3.382  1.00 32.05       ES5
ATOM  38607  C   LYS E 121     150.725 113.794  -3.801  1.00 28.45       ES5
ATOM  38608  O   LYS E 121     150.421 114.486  -4.771  1.00 28.45       ES5
ATOM  38609  N   GLU E 122     151.967 113.404  -3.518  1.00 48.50       ES5
ATOM  38610  CA  GLU E 122     153.124 113.762  -4.332  1.00 48.50       ES5
ATOM  38611  CB  GLU E 122     154.372 113.838  -3.459  1.00 50.66       ES5
ATOM  38612  CG  GLU E 122     154.285 114.838  -2.341  1.00 50.66       ES5
ATOM  38613  CD  GLU E 122     155.576 114.946  -1.558  1.00 50.66       ES5
ATOM  38614  OE1 GLU E 122     156.636 115.134  -2.185  1.00 50.66       ES5
ATOM  38615  OE2 GLU E 122     155.536 114.859  -0.315  1.00 50.66       ES5
ATOM  38616  C   GLU E 122     153.375 112.754  -5.450  1.00 48.50       ES5
ATOM  38617  O   GLU E 122     153.581 111.559  -5.210  1.00 48.50       ES5
ATOM  38618  N   LEU E 123     153.368 113.242  -6.679  1.00 43.21       ES5
ATOM  38619  CA  LEU E 123     153.605 112.385  -7.819  1.00 43.21       ES5
ATOM  38620  CB  LEU E 123     152.413 112.432  -8.754  1.00 31.07       ES5
ATOM  38621  CG  LEU E 123     151.117 111.983  -8.099  1.00 31.07       ES5
ATOM  38622  CD1 LEU E 123     149.994 112.095  -9.106  1.00 31.07       ES5
ATOM  38623  CD2 LEU E 123     151.245 110.572  -7.615  1.00 31.07       ES5
ATOM  38624  C   LEU E 123     154.852 112.845  -8.550  1.00 43.21       ES5
ATOM  38625  O   LEU E 123     155.388 113.912  -8.265  1.00 43.21       ES5
ATOM  38626  N   GLY E 124     155.307 112.037  -9.497  1.00 37.41       ES5
ATOM  38627  CA  GLY E 124     156.496 112.385 -10.245  1.00 37.41       ES5
ATOM  38628  C   GLY E 124     157.752 112.375  -9.389  1.00 37.41       ES5
ATOM  38629  O   GLY E 124     157.943 111.517  -8.513  1.00 37.41       ES5
ATOM  38630  N   SER E 125     158.629 113.332  -9.669  1.00 30.65       ES5
ATOM  38631  CA  SER E 125     159.864 113.465  -8.925  1.00 30.65       ES5
ATOM  38632  CB  SER E 125     160.784 114.475  -9.617  1.00 34.56       ES5
ATOM  38633  OG  SER E 125     161.837 114.883  -8.757  1.00 34.56       ES5
ATOM  38634  C   SER E 125     159.502 113.962  -7.537  1.00 30.65       ES5
ATOM  38635  O   SER E 125     158.821 114.971  -7.394  1.00 30.65       ES5
ATOM  38636  N   ARG E 126     159.952 113.260  -6.513  1.00 50.33       ES5
ATOM  38637  CA  ARG E 126     159.655 113.687  -5.161  1.00 50.33       ES5
ATOM  38638  CB  ARG E 126     159.630 112.488  -4.240  1.00 60.04       ES5
ATOM  38639  CG  ARG E 126     158.629 111.485  -4.644  1.00 60.04       ES5
ATOM  38640  CD  ARG E 126     157.296 111.791  -4.056  1.00 60.04       ES5
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ATOM  38641  NE  ARG E 126     156.638 110.537  -3.725  1.00 60.04       ES5
ATOM  38642  CZ  ARG E 126     157.204 109.577  -2.996  1.00 60.04       ES5
ATOM  38643  NH1 ARG E 126     158.439 109.726  -2.520  1.00 60.04       ES5
ATOM  38644  NH2 ARG E 126     156.537 108.460  -2.749  1.00 60.04       ES5
ATOM  38645  C   ARG E 126     160.681 114.692  -4.646  1.00 50.33       ES5
ATOM  38646  O   ARG E 126     160.710 114.989  -3.444  1.00 50.33       ES5
ATOM  38647  N   ASN E 127     161.531 115.204  -5.532  1.00 23.90       ES5
ATOM  38648  CA  ASN E 127     162.518 116.176  -5.101  1.00 23.90       ES5
ATOM  38649  CB  ASN E 127     163.202 116.828  -6.292  1.00 60.66       ES5
ATOM  38650  CG  ASN E 127     164.049 118.003  -5.879  1.00 60.66       ES5
ATOM  38651  OD1 ASN E 127     163.550 119.119  -5.704  1.00 60.66       ES5
ATOM  38652  ND2 ASN E 127     165.336 117.755  -5.683  1.00 60.66       ES5
ATOM  38653  C   ASN E 127     161.866 117.264  -4.240  1.00 23.90       ES5
ATOM  38654  O   ASN E 127     161.033 118.047  -4.716  1.00 23.90       ES5
ATOM  38655  N   PRO E 128     162.252 117.338  -2.960  1.00 28.63       ES5
ATOM  38656  CD  PRO E 128     163.396 116.671  -2.330  1.00 29.98       ES5
ATOM  38657  CA  PRO E 128     161.690 118.327  -2.050  1.00 28.63       ES5
ATOM  38658  CB  PRO E 128     162.544 118.170  -0.806  1.00 29.98       ES5
ATOM  38659  CG  PRO E 128     163.819 117.703  -1.343  1.00 29.98       ES5
ATOM  38660  C   PRO E 128     161.677 119.732  -2.581  1.00 28.63       ES5
ATOM  38661  O   PRO E 128     160.643 120.388  -2.526  1.00 28.63       ES5
ATOM  38662  N   ILE E 129     162.792 120.213  -3.110  1.00 25.72       ES5
ATOM  38663  CA  ILE E 129     162.775 121.580  -3.610  1.00 25.72       ES5
ATOM  38664  CB  ILE E 129     164.089 121.984  -4.289  1.00 44.51       ES5
ATOM  38665  CG2 ILE E 129     163.902 123.313  -4.992  1.00 44.51       ES5
ATOM  38666  CG1 ILE E 129     165.199 122.111  -3.247  1.00 44.51       ES5
ATOM  38667  CD1 ILE E 129     166.419 122.884  -3.722  1.00 44.51       ES5
ATOM  38668  C   ILE E 129     161.642 121.840  -4.598  1.00 25.72       ES5
ATOM  38669  O   ILE E 129     160.853 122.770  -4.411  1.00 25.72       ES5
ATOM  38670  N   ASN E 130     161.552 121.025  -5.643  1.00 29.50       ES5
ATOM  38671  CA  ASN E 130     160.508 121.233  -6.631  1.00 29.50       ES5
ATOM  38672  CB  ASN E 130     160.821 120.507  -7.927  1.00 43.68       ES5
ATOM  38673  CG  ASN E 130     162.126 120.927  -8.511  1.00 43.68       ES5
ATOM  38674  OD1 ASN E 130     162.389 122.111  -8.684  1.00 43.68       ES5
ATOM  38675  ND2 ASN E 130     162.965 119.954  -8.825  1.00 43.68       ES5
ATOM  38676  C   ASN E 130     159.134 120.828  -6.167  1.00 29.50       ES5
ATOM  38677  O   ASN E 130     158.143 121.192  -6.798  1.00 29.50       ES5
ATOM  38678  N   ILE E 131     159.046 120.054  -5.096  1.00 33.75       ES5
ATOM  38679  CA  ILE E 131     157.718 119.701  -4.623  1.00 33.75       ES5
ATOM  38680  CB  ILE E 131     157.721 118.512  -3.626  1.00 26.39       ES5
ATOM  38681  CG2 ILE E 131     156.517 118.612  -2.688  1.00 26.39       ES5
ATOM  38682  CG1 ILE E 131     157.684 117.185  -4.391  1.00 26.39       ES5
ATOM  38683  CD1 ILE E 131     156.497 117.064  -5.344  1.00 26.39       ES5
ATOM  38684  C   ILE E 131     157.216 120.943  -3.918  1.00 33.75       ES5
ATOM  38685  O   ILE E 131     156.099 121.422  -4.172  1.00 33.75       ES5
ATOM  38686  N   ALA E 132     158.067 121.473  -3.045  1.00 40.88       ES5
ATOM  38687  CA  ALA E 132     157.727 122.667  -2.296  1.00 40.88       ES5
ATOM  38688  CB  ALA E 132     158.894 123.112  -1.475  1.00 13.24       ES5
ATOM  38689  C   ALA E 132     157.327 123.758  -3.266  1.00 40.88       ES5
ATOM  38690  O   ALA E 132     156.292 124.385  -3.108  1.00 40.88       ES5
ATOM  38691  N   TYR E 133     158.140 123.979  -4.284  1.00 38.87       ES5
ATOM  38692  CA  TYR E 133     157.805 125.011  -5.238  1.00 38.87       ES5
ATOM  38693  CB  TYR E 133     158.926 125.200  -6.254  1.00 74.20       ES5
ATOM  38694  CG  TYR E 133     159.846 126.296  -5.840  1.00 74.20       ES5
ATOM  38695  CD1 TYR E 133     160.882 126.056  -4.950  1.00 74.20       ES5
ATOM  38696  CE1 TYR E 133     161.653 127.097  -4.456  1.00 74.20       ES5
ATOM  38697  CD2 TYR E 133     159.605 127.604  -6.238  1.00 74.20       ES5
ATOM  38698  CE2 TYR E 133     160.363 128.652  -5.754  1.00 74.20       ES5
ATOM  38699  CZ  TYR E 133     161.386 128.396  -4.860  1.00 74.20       ES5
ATOM  38700  OH  TYR E 133     162.133 129.440  -4.361  1.00 74.20       ES5
ATOM  38701  C   TYR E 133     156.510 124.723  -5.958  1.00 38.87       ES5
ATOM  38702  O   TYR E 133     155.780 125.638  -6.338  1.00 38.87       ES5
ATOM  38703  N   ALA E 134     156.218 123.451  -6.151  1.00 45.25       ES5
ATOM  38704  CA  ALA E 134     155.008 123.103  -6.847  1.00 45.25       ES5
ATOM  38705  CB  ALA E 134     155.067 121.659  -7.284  1.00 46.98       ES5
ATOM  38706  C   ALA E 134     153.816 123.349  -5.931  1.00 45.25       ES5
ATOM  38707  O   ALA E 134     152.737 123.740  -6.386  1.00 45.25       ES5
ATOM  38708  N   THR E 135     154.006 123.134  -4.635  1.00 54.15       ES5
ATOM  38709  CA  THR E 135     152.915 123.344  -3.701  1.00 54.15       ES5
ATOM  38710  CB  THR E 135     153.307 122.973  -2.292  1.00 36.87       ES5
ATOM  38711  OG1 THR E 135     153.722 121.610  -2.265  1.00 36.87       ES5
ATOM  38712  CG2 THR E 135     152.139 123.148  -1.370  1.00 36.87       ES5
ATOM  38713  C   THR E 135     152.474 124.794  -3.690  1.00 54.15       ES5
ATOM  38714  O   THR E 135     151.280 125.080  -3.755  1.00 54.15       ES5
ATOM  38715  N   MET E 136     153.437 125.706  -3.599  1.00 44.15       ES5
ATOM  38716  CA  MET E 136     153.128 127.127  -3.582  1.00 44.15       ES5
ATOM  38717  CB  MET E 136     154.406 127.949  -3.554  1.00 43.25       ES5
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ATOM  38718  CG  MET E 136     155.269 127.739  -2.321  1.00 43.25       ES5
ATOM  38719  SD  MET E 136     154.633 128.560  -0.842  1.00 43.25       ES5
ATOM  38720  CE  MET E 136     154.885 130.266  -1.252  1.00 43.25       ES5
ATOM  38721  C   MET E 136     152.328 127.481  -4.825  1.00 44.15       ES5
ATOM  38722  O   MET E 136     151.277 128.122  -4.748  1.00 44.15       ES5
ATOM  38723  N   GLU E 137     152.815 127.052  -5.978  1.00 36.62       ES5
ATOM  38724  CA  GLU E 137     152.113 127.355  -7.207  1.00 36.62       ES5
ATOM  38725  CB  GLU E 137     152.835 126.769  -8.402  1.00 59.21       ES5
ATOM  38726  CG  GLU E 137     153.384 127.840  -9.303  1.00 59.21       ES5
ATOM  38727  CD  GLU E 137     152.351 128.899  -9.634  1.00 59.21       ES5
ATOM  38728  OE1 GLU E 137     151.254 128.527 -10.104  1.00 59.21       ES5
ATOM  38729  OE2 GLU E 137     152.641 130.101  -9.426  1.00 59.21       ES5
ATOM  38730  C   GLU E 137     150.717 126.804  -7.159  1.00 36.62       ES5
ATOM  38731  O   GLU E 137     149.793 127.400  -7.706  1.00 36.62       ES5
ATOM  38732  N   ALA E 138     150.568 125.652  -6.508  1.00 36.42       ES5
ATOM  38733  CA  ALA E 138     149.268 125.008  -6.397  1.00 36.42       ES5
ATOM  38734  CB  ALA E 138     149.405 123.687  -5.701  1.00 25.76       ES5
ATOM  38735  C   ALA E 138     148.358 125.920  -5.610  1.00 36.42       ES5
ATOM  38736  O   ALA E 138     147.263 126.269  -6.054  1.00 36.42       ES5
ATOM  38737  N   LEU E 139     148.823 126.306  -4.433  1.00 35.63       ES5
ATOM  38738  CA  LEU E 139     148.054 127.194  -3.599  1.00 35.63       ES5
ATOM  38739  CB  LEU E 139     148.839 127.506  -2.338  1.00 20.61       ES5
ATOM  38740  CG  LEU E 139     148.959 126.303  -1.407  1.00 20.61       ES5
ATOM  38741  CD1 LEU E 139     149.835 126.663  -0.202  1.00 20.61       ES5
ATOM  38742  CD2 LEU E 139     147.574 125.879  -0.930  1.00 20.61       ES5
ATOM  38743  C   LEU E 139     147.768 128.468  -4.382  1.00 35.63       ES5
ATOM  38744  O   LEU E 139     146.612 128.808  -4.655  1.00 35.63       ES5
ATOM  38745  N   ARG E 140     148.834 129.162  -4.762  1.00 35.93       ES5
ATOM  38746  CA  ARG E 140     148.712 130.401  -5.510  1.00 35.93       ES5
ATOM  38747  CB  ARG E 140     150.073 130.771  -6.098  1.00 55.48       ES5
ATOM  38748  CG  ARG E 140     150.053 131.980  -7.015  1.00 55.48       ES5
ATOM  38749  CD  ARG E 140     151.458 132.380  -7.403  1.00 55.48       ES5
ATOM  38750  NE  ARG E 140     152.300 132.506  -6.223  1.00 55.48       ES5
ATOM  38751  CZ  ARG E 140     153.374 131.758  -6.000  1.00 55.48       ES5
ATOM  38752  NH1 ARG E 140     153.735 130.839  -6.888  1.00 55.48       ES5
ATOM  38753  NH2 ARG E 140     154.074 131.911  -4.881  1.00 55.48       ES5
ATOM  38754  C   ARG E 140     147.665 130.362  -6.622  1.00 35.93       ES5
ATOM  38755  O   ARG E 140     147.084 131.384  -6.955  1.00 35.93       ES5
ATOM  38756  N   GLN E 141     147.425 129.187  -7.196  1.00 30.35       ES5
ATOM  38757  CA  GLN E 141     146.459 129.043  -8.284  1.00 30.35       ES5
ATOM  38758  CB  GLN E 141     146.861 127.884  -9.195  1.00 63.68       ES5
ATOM  38759  CG  GLN E 141     147.854 128.236 -10.269  1.00 63.68       ES5
ATOM  38760  CD  GLN E 141     147.974 127.143 -11.308  1.00 63.68       ES5
ATOM  38761  OE1 GLN E 141     146.976 126.574 -11.745  1.00 63.68       ES5
ATOM  38762  NE2 GLN E 141     149.198 126.852 -11.721  1.00 63.68       ES5
ATOM  38763  C   GLN E 141     145.008 128.833  -7.852  1.00 30.35       ES5
ATOM  38764  O   GLN E 141     144.115 128.747  -8.699  1.00 30.35       ES5
ATOM  38765  N   LEU E 142     144.774 128.734  -6.547  1.00 45.70       ES5
ATOM  38766  CA  LEU E 142     143.426 128.527  -6.035  1.00 45.70       ES5
ATOM  38767  CB  LEU E 142     143.468 128.232  -4.541  1.00 25.50       ES5
ATOM  38768  CG  LEU E 142     144.255 126.971  -4.157  1.00 25.50       ES5
ATOM  38769  CD1 LEU E 142     144.731 127.057  -2.702  1.00 25.50       ES5
ATOM  38770  CD2 LEU E 142     143.384 125.731  -4.384  1.00 25.50       ES5
ATOM  38771  C   LEU E 142     142.559 129.748  -6.291  1.00 45.70       ES5
ATOM  38772  O   LEU E 142     143.022 130.886  -6.216  1.00 45.70       ES5
ATOM  38773  N   ARG E 143     141.301 129.488  -6.618  1.00 33.26       ES5
ATOM  38774  CA  ARG E 143     140.323 130.518  -6.898  1.00 33.26       ES5
ATOM  38775  CB  ARG E 143     139.833 130.448  -8.346  1.00 52.92       ES5
ATOM  38776  CG  ARG E 143     140.836 130.777  -9.442  1.00 52.92       ES5
ATOM  38777  CD  ARG E 143     141.308 132.209  -9.378  1.00 52.92       ES5
ATOM  38778  NE  ARG E 143     142.501 132.301  -8.552  1.00 52.92       ES5
ATOM  38779  CZ  ARG E 143     143.719 132.511  -9.029  1.00 52.92       ES5
ATOM  38780  NH1 ARG E 143     143.909 132.665 -10.333  1.00 52.92       ES5
ATOM  38781  NH2 ARG E 143     144.750 132.537  -8.201  1.00 52.92       ES5
ATOM  38782  C   ARG E 143     139.140 130.237  -5.990  1.00 33.26       ES5
ATOM  38783  O   ARG E 143     138.985 129.140  -5.438  1.00 33.26       ES5
ATOM  38784  N   THR E 144     138.269 131.225  -5.886  1.00 49.96       ES5
ATOM  38785  CA  THR E 144     137.112 131.131  -5.033  1.00 49.96       ES5
ATOM  38786  CB  THR E 144     137.276 132.106  -3.897  1.00 40.69       ES5
ATOM  38787  OG1 THR E 144     137.541 131.364  -2.709  1.00 40.69       ES5
ATOM  38788  CG2 THR E 144     136.060 132.993  -3.737  1.00 40.69       ES5
ATOM  38789  C   THR E 144     135.839 131.412  -5.782  1.00 49.96       ES5
ATOM  38790  O   THR E 144     135.869 132.015  -6.855  1.00 49.96       ES5
ATOM  38791  N   LYS E 145     134.720 130.971  -5.212  1.00 39.04       ES5
ATOM  38792  CA  LYS E 145     133.424 131.179  -5.835  1.00 39.04       ES5
ATOM  38793  CB  LYS E 145     132.308 130.828  -4.858  1.00102.60       ES5
ATOM  38794  CG  LYS E 145     131.041 130.351  -5.539  1.00102.60       ES5
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ATOM  38795  CD  LYS E 145     129.992 129.969  -4.515  1.00102.60       ES5
ATOM  38796  CE  LYS E 145     128.683 129.582  -5.179  1.00102.60       ES5
ATOM  38797  NZ  LYS E 145     127.591 129.432  -4.169  1.00102.60       ES5
ATOM  38798  C   LYS E 145     133.369 132.648  -6.230  1.00 39.04       ES5
ATOM  38799  O   LYS E 145     133.147 132.989  -7.397  1.00 39.04       ES5
ATOM  38800  N   ALA E 146     133.620 133.514  -5.256  1.00 50.89       ES5
ATOM  38801  CA  ALA E 146     133.623 134.950  -5.495  1.00 50.89       ES5
ATOM  38802  CB  ALA E 146     134.141 135.672  -4.276  1.00 85.58       ES5
ATOM  38803  C   ALA E 146     134.509 135.252  -6.693  1.00 50.89       ES5
ATOM  38804  O   ALA E 146     134.058 135.820  -7.693  1.00 50.89       ES5
ATOM  38805  N   ASP E 147     135.773 134.853  -6.581  1.00 49.52       ES5
ATOM  38806  CA  ASP E 147     136.751 135.065  -7.640  1.00 49.52       ES5
ATOM  38807  CB  ASP E 147     137.990 134.217  -7.378  1.00 75.52       ES5
ATOM  38808  CG  ASP E 147     138.605 134.494  -6.028  1.00 75.52       ES5
ATOM  38809  OD1 ASP E 147     138.619 135.670  -5.619  1.00 75.52       ES5
ATOM  38810  OD2 ASP E 147     139.091 133.549  -5.378  1.00 75.52       ES5
ATOM  38811  C   ASP E 147     136.173 134.714  -9.006  1.00 49.52       ES5
ATOM  38812  O   ASP E 147     136.111 135.552  -9.907  1.00 49.52       ES5
ATOM  38813  N   VAL E 148     135.745 133.466  -9.148  1.00 28.19       ES5
ATOM  38814  CA  VAL E 148     135.182 133.001 -10.397  1.00 28.19       ES5
ATOM  38815  CB  VAL E 148     134.598 131.620 -10.237  1.00 45.21       ES5
ATOM  38816  CG1 VAL E 148     134.252 131.050 -11.602  1.00 45.21       ES5
ATOM  38817  CG2 VAL E 148     135.578 130.746  -9.483  1.00 45.21       ES5
ATOM  38818  C   VAL E 148     134.071 133.922 -10.853  1.00 28.19       ES5
ATOM  38819  O   VAL E 148     133.981 134.272 -12.046  1.00 28.19       ES5
ATOM  38820  N   GLU E 149     133.221 134.295  -9.890  1.00 51.12       ES5
ATOM  38821  CA  GLU E 149     132.083 135.177 -10.141  1.00 51.12       ES5
ATOM  38822  CB  GLU E 149     131.350 135.495  -8.838  1.00200.96       ES5
ATOM  38823  CG  GLU E 149     130.695 134.293  -8.186  1.00200.96       ES5
ATOM  38824  CD  GLU E 149     129.937 134.660  -6.926  1.00200.96       ES5
ATOM  38825  OE1 GLU E 149     128.979 135.455  -7.019  1.00200.96       ES5
ATOM  38826  OE2 GLU E 149     130.300 134.157  -5.842  1.00200.96       ES5
ATOM  38827  C   GLU E 149     132.607 136.458 -10.755  1.00 51.12       ES5
ATOM  38828  O   GLU E 149     132.056 136.973 -11.729  1.00 51.12       ES5
ATOM  38829  N   ARG E 150     133.692 136.957 -10.178  1.00 58.91       ES5
ATOM  38830  CA  ARG E 150     134.313 138.172 -10.658  1.00 58.91       ES5
ATOM  38831  CB  ARG E 150     135.561 138.470  -9.824  1.00105.82       ES5
ATOM  38832  CG  ARG E 150     135.562 139.831  -9.152  1.00105.82       ES5
ATOM  38833  CD  ARG E 150     135.715 140.940 -10.176  1.00105.82       ES5
ATOM  38834  NE  ARG E 150     135.702 142.280  -9.585  1.00105.82       ES5
ATOM  38835  CZ  ARG E 150     136.580 142.724  -8.689  1.00105.82       ES5
ATOM  38836  NH1 ARG E 150     137.557 141.933  -8.262  1.00105.82       ES5
ATOM  38837  NH2 ARG E 150     136.490 143.967  -8.229  1.00105.82       ES5
ATOM  38838  C   ARG E 150     134.682 137.994 -12.129  1.00 58.91       ES5
ATOM  38839  O   ARG E 150     134.295 138.800 -12.975  1.00 58.91       ES5
ATOM  38840  N   LEU E 151     135.399 136.916 -12.436  1.00 55.50       ES5
ATOM  38841  CA  LEU E 151     135.842 136.659 -13.800  1.00 55.50       ES5
ATOM  38842  CB  LEU E 151     136.781 135.460 -13.845  1.00 39.37       ES5
ATOM  38843  CG  LEU E 151     138.064 135.478 -13.024  1.00 39.37       ES5
ATOM  38844  CD1 LEU E 151     138.787 134.172 -13.225  1.00 39.37       ES5
ATOM  38845  CD2 LEU E 151     138.940 136.643 -13.439  1.00 39.37       ES5
ATOM  38846  C   LEU E 151     134.727 136.409 -14.789  1.00 55.50       ES5
ATOM  38847  O   LEU E 151     134.829 136.790 -15.951  1.00 55.50       ES5
ATOM  38848  N   ARG E 152     133.659 135.765 -14.350  1.00 50.08       ES5
ATOM  38849  CA  ARG E 152     132.596 135.472 -15.285  1.00 50.08       ES5
ATOM  38850  CB  ARG E 152     132.070 134.074 -15.006  1.00 75.33       ES5
ATOM  38851  CG  ARG E 152     133.170 133.035 -14.985  1.00 75.33       ES5
ATOM  38852  CD  ARG E 152     132.610 131.659 -14.723  1.00 75.33       ES5
ATOM  38853  NE  ARG E 152     133.651 130.654 -14.561  1.00 75.33       ES5
ATOM  38854  CZ  ARG E 152     133.419 129.428 -14.109  1.00 75.33       ES5
ATOM  38855  NH1 ARG E 152     132.181 129.077 -13.778  1.00 75.33       ES5
ATOM  38856  NH2 ARG E 152     134.415 128.556 -13.992  1.00 75.33       ES5
ATOM  38857  C   ARG E 152     131.441 136.468 -15.349  1.00 50.08       ES5
ATOM  38858  O   ARG E 152     130.455 136.217 -16.043  1.00 50.08       ES5
ATOM  38859  N   LYS E 153     131.552 137.597 -14.648  1.00107.68       ES5
ATOM  38860  CA  LYS E 153     130.478 138.595 -14.668  1.00107.68       ES5
ATOM  38861  CB  LYS E 153     130.608 139.579 -13.497  1.00119.27       ES5
ATOM  38862  CG  LYS E 153     130.004 139.059 -12.201  1.00119.27       ES5
ATOM  38863  CD  LYS E 153     129.900 140.130 -11.114  1.00119.27       ES5
ATOM  38864  CE  LYS E 153     129.224 139.562  -9.861  1.00119.27       ES5
ATOM  38865  NZ  LYS E 153     128.951 140.583  -8.816  1.00119.27       ES5
ATOM  38866  C   LYS E 153     130.404 139.371 -15.975  1.00107.68       ES5
ATOM  38867  O   LYS E 153     129.394 139.318 -16.673  1.00107.68       ES5
ATOM  38868  N   GLY E 154     131.470 140.092 -16.304  1.00142.25       ES5
ATOM  38869  CA  GLY E 154     131.480 140.861 -17.535  1.00142.25       ES5
ATOM  38870  C   GLY E 154     130.188 141.629 -17.754  1.00142.25       ES5
ATOM  38871  O   GLY E 154     129.455 141.308 -18.715  1.00142.25       ES5
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ATOM  38872  OXT GLY E 154     129.898 142.550 -16.960  1.00176.21       ES5
TER   38872      GLY E 154                                                ES5
ATOM  38873  CB  MET F   1     156.347 112.475 -84.825  1.00160.91       FS6
ATOM  38874  CG  MET F   1     155.884 111.515 -85.910  1.00160.91       FS6
ATOM  38875  SD  MET F   1     156.257 112.100 -87.580  1.00160.91       FS6
ATOM  38876  CE  MET F   1     154.618 112.506 -88.181  1.00160.91       FS6
ATOM  38877  C   MET F   1     156.259 114.762 -83.817  1.00107.03       FS6
ATOM  38878  O   MET F   1     155.580 115.438 -83.041  1.00107.03       FS6
ATOM  38879  N   MET F   1     155.582 114.415 -86.157  1.00107.03       FS6
ATOM  38880  CA  MET F   1     155.591 113.803 -84.798  1.00107.03       FS6
ATOM  38881  N   ARG F   2     157.590 114.821 -83.856  1.00 54.66       FS6
ATOM  38882  CA  ARG F   2     158.340 115.717 -82.976  1.00 54.66       FS6
ATOM  38883  CB  ARG F   2     158.732 114.991 -81.678  1.00 91.57       FS6
ATOM  38884  CG  ARG F   2     157.550 114.720 -80.752  1.00 91.57       FS6
ATOM  38885  CD  ARG F   2     157.975 114.333 -79.337  1.00 91.57       FS6
ATOM  38886  NE  ARG F   2     158.190 112.900 -79.175  1.00 91.57       FS6
ATOM  38887  CZ  ARG F   2     158.328 112.306 -77.996  1.00 91.57       FS6
ATOM  38888  NH1 ARG F   2     158.272 113.030 -76.890  1.00 91.57       FS6
ATOM  38889  NH2 ARG F   2     158.521 110.996 -77.918  1.00 91.57       FS6
ATOM  38890  C   ARG F   2     159.586 116.326 -83.622  1.00 54.66       FS6
ATOM  38891  O   ARG F   2     160.300 115.666 -84.377  1.00 54.66       FS6
ATOM  38892  N   ARG F   3     159.828 117.595 -83.312  1.00 72.93       FS6
ATOM  38893  CA  ARG F   3     160.979 118.321 -83.828  1.00 72.93       FS6
ATOM  38894  CB  ARG F   3     160.794 119.823 -83.624  1.00140.50       FS6
ATOM  38895  CG  ARG F   3     159.852 120.456 -84.611  1.00140.50       FS6
ATOM  38896  CD  ARG F   3     159.688 121.937 -84.347  1.00140.50       FS6
ATOM  38897  NE  ARG F   3     158.934 122.581 -85.417  1.00140.50       FS6
ATOM  38898  CZ  ARG F   3     157.721 122.204 -85.814  1.00140.50       FS6
ATOM  38899  NH1 ARG F   3     157.110 121.181 -85.230  1.00140.50       FS6
ATOM  38900  NH2 ARG F   3     157.117 122.847 -86.804  1.00140.50       FS6
ATOM  38901  C   ARG F   3     162.290 117.893 -83.175  1.00 72.93       FS6
ATOM  38902  O   ARG F   3     162.337 117.538 -81.998  1.00 72.93       FS6
ATOM  38903  N   TYR F   4     163.357 117.949 -83.959  1.00 69.09       FS6
ATOM  38904  CA  TYR F   4     164.681 117.580 -83.498  1.00 69.09       FS6
ATOM  38905  CB  TYR F   4     164.936 116.099 -83.751  1.00 68.40       FS6
ATOM  38906  CG  TYR F   4     164.023 115.158 -83.012  1.00 68.40       FS6
ATOM  38907  CD1 TYR F   4     164.173 114.930 -81.650  1.00 68.40       FS6
ATOM  38908  CE1 TYR F   4     163.358 114.015 -80.976  1.00 68.40       FS6
ATOM  38909  CD2 TYR F   4     163.032 114.462 -83.685  1.00 68.40       FS6
ATOM  38910  CE2 TYR F   4     162.211 113.550 -83.025  1.00 68.40       FS6
ATOM  38911  CZ  TYR F   4     162.381 113.324 -81.671  1.00 68.40       FS6
ATOM  38912  OH  TYR F   4     161.599 112.375 -81.043  1.00 68.40       FS6
ATOM  38913  C   TYR F   4     165.713 118.387 -84.269  1.00 69.09       FS6
ATOM  38914  O   TYR F   4     165.439 118.899 -85.348  1.00 69.09       FS6
ATOM  38915  N   GLU F   5     166.905 118.496 -83.708  1.00106.01       FS6
ATOM  38916  CA  GLU F   5     167.976 119.216 -84.360  1.00106.01       FS6
ATOM  38917  CB  GLU F   5     168.438 120.385 -83.490  1.00 81.94       FS6
ATOM  38918  CG  GLU F   5     167.502 121.582 -83.539  1.00 81.94       FS6
ATOM  38919  CD  GLU F   5     167.842 122.655 -82.511  1.00 81.94       FS6
ATOM  38920  OE1 GLU F   5     169.045 122.892 -82.258  1.00 81.94       FS6
ATOM  38921  OE2 GLU F   5     166.902 123.277 -81.966  1.00 81.94       FS6
ATOM  38922  C   GLU F   5     169.102 118.226 -84.576  1.00106.01       FS6
ATOM  38923  O   GLU F   5     169.851 117.911 -83.654  1.00106.01       FS6
ATOM  38924  N   VAL F   6     169.195 117.714 -85.796  1.00 63.29       FS6
ATOM  38925  CA  VAL F   6     170.229 116.755 -86.147  1.00 63.29       FS6
ATOM  38926  CB  VAL F   6     169.819 115.921 -87.365  1.00 69.67       FS6
ATOM  38927  CG1 VAL F   6     170.862 114.845 -87.634  1.00 69.67       FS6
ATOM  38928  CG2 VAL F   6     168.447 115.316 -87.136  1.00 69.67       FS6
ATOM  38929  C   VAL F   6     171.532 117.461 -86.494  1.00 63.29       FS6
ATOM  38930  O   VAL F   6     171.655 118.019 -87.578  1.00 63.29       FS6
ATOM  38931  N   ASN F   7     172.494 117.443 -85.573  1.00 43.32       FS6
ATOM  38932  CA  ASN F   7     173.794 118.059 -85.801  1.00 43.32       FS6
ATOM  38933  CB  ASN F   7     174.381 118.547 -84.491  1.00 65.11       FS6
ATOM  38934  CG  ASN F   7     173.876 119.900 -84.107  1.00 65.11       FS6
ATOM  38935  OD1 ASN F   7     174.210 120.900 -84.742  1.00 65.11       FS6
ATOM  38936  ND2 ASN F   7     173.062 119.950 -83.061  1.00 65.11       FS6
ATOM  38937  C   ASN F   7     174.742 117.032 -86.398  1.00 43.32       FS6
ATOM  38938  O   ASN F   7     174.807 115.898 -85.926  1.00 43.32       FS6
ATOM  38939  N   ILE F   8     175.473 117.412 -87.439  1.00 79.08       FS6
ATOM  38940  CA  ILE F   8     176.422 116.486 -88.039  1.00 79.08       FS6
ATOM  38941  CB  ILE F   8     175.835 115.781 -89.272  1.00 48.77       FS6
ATOM  38942  CG2 ILE F   8     176.858 114.805 -89.847  1.00 48.77       FS6
ATOM  38943  CG1 ILE F   8     174.559 115.035 -88.873  1.00 48.77       FS6
ATOM  38944  CD1 ILE F   8     173.978 114.134 -89.955  1.00 48.77       FS6
ATOM  38945  C   ILE F   8     177.718 117.176 -88.432  1.00 79.08       FS6
ATOM  38946  O   ILE F   8     177.712 118.234 -89.062  1.00 79.08       FS6
ATOM  38947  N   VAL F   9     178.830 116.567 -88.042  1.00 87.92       FS6
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ATOM  38948  CA  VAL F   9     180.146 117.107 -88.342  1.00 87.92      FS6
ATOM  38949  CB  VAL F   9     180.963 117.329 -87.054  1.00 62.29      FS6
ATOM  38950  CG1 VAL F   9     182.051 118.347 -87.302  1.00 62.29      FS6
ATOM  38951  CG2 VAL F   9     180.056 117.769 -85.924  1.00 62.29      FS6
ATOM  38952  C   VAL F   9     180.879 116.079 -89.187  1.00 87.92      FS6
ATOM  38953  O   VAL F   9     181.101 114.957 -88.731  1.00 87.92      FS6
ATOM  38954  N   LEU F  10     181.248 116.438 -90.414  1.00 66.84      FS6
ATOM  38955  CA  LEU F  10     181.968 115.484 -91.249  1.00 66.84      FS6
ATOM  38956  CB  LEU F  10     181.116 115.039 -92.442  1.00 71.91      FS6
ATOM  38957  CG  LEU F  10     180.108 116.007 -93.042  1.00 71.91      FS6
ATOM  38958  CD1 LEU F  10     180.796 117.290 -93.424  1.00 71.91      FS6
ATOM  38959  CD2 LEU F  10     179.451 115.352 -94.252  1.00 71.91      FS6
ATOM  38960  C   LEU F  10     183.341 115.950 -91.717  1.00 66.84      FS6
ATOM  38961  O   LEU F  10     183.635 117.149 -91.742  1.00 66.84      FS6
ATOM  38962  N   ASN F  11     184.171 114.965 -92.066  1.00 89.82      FS6
ATOM  38963  CA  ASN F  11     185.548 115.166 -92.515  1.00 89.82      FS6
ATOM  38964  CB  ASN F  11     186.021 113.957 -93.316  1.00124.76      FS6
ATOM  38965  CG  ASN F  11     187.507 113.993 -93.585  1.00124.76      FS6
ATOM  38966  OD1 ASN F  11     188.035 114.989 -94.078  1.00124.76      FS6
ATOM  38967  ND2 ASN F  11     188.193 112.903 -93.262  1.00124.76      FS6
ATOM  38968  C   ASN F  11     185.769 116.423 -93.337  1.00 89.82      FS6
ATOM  38969  O   ASN F  11     185.303 116.537 -94.468  1.00 89.82      FS6
ATOM  38970  N   PRO F  12     186.517 117.377 -92.779  1.00 70.91      FS6
ATOM  38971  CD  PRO F  12     187.088 117.296 -91.427  1.00 65.88      FS6
ATOM  38972  CA  PRO F  12     186.840 118.662 -93.405  1.00 70.91      FS6
ATOM  38973  CB  PRO F  12     187.419 119.461 -92.240  1.00 65.88      FS6
ATOM  38974  CG  PRO F  12     188.101 118.409 -91.442  1.00 65.88      FS6
ATOM  38975  C   PRO F  12     187.782 118.629 -94.617  1.00 70.91      FS6
ATOM  38976  O   PRO F  12     188.283 119.673 -95.043  1.00 70.91      FS6
ATOM  38977  N   ASN F  13     188.011 117.449 -95.184  1.00 94.52      FS6
ATOM  38978  CA  ASN F  13     188.904 117.342 -96.334  1.00 94.52      FS6
ATOM  38979  CB  ASN F  13     190.176 116.596 -95.945  1.00108.28      FS6
ATOM  38980  CG  ASN F  13     190.715 117.032 -94.608  1.00108.28      FS6
ATOM  38981  OD1 ASN F  13     190.810 118.227 -94.324  1.00108.28      FS6
ATOM  38982  ND2 ASN F  13     191.081 116.063 -93.776  1.00108.28      FS6
ATOM  38983  C   ASN F  13     188.267 116.634 -97.519  1.00 94.52      FS6
ATOM  38984  O   ASN F  13     188.907 115.801 -98.163  1.00 94.52      FS6
ATOM  38985  N   LEU F  14     187.015 116.965 -97.818  1.00 92.76      FS6
ATOM  38986  CA  LEU F  14     186.329 116.328 -98.935  1.00 92.76      FS6
ATOM  38987  CB  LEU F  14     184.894 115.970 -98.543  1.00 84.25      FS6
ATOM  38988  CG  LEU F  14     184.691 115.032 -97.354  1.00 84.25      FS6
ATOM  38989  CD1 LEU F  14     183.208 114.805 -97.148  1.00 84.25      FS6
ATOM  38990  CD2 LEU F  14     185.390 113.710 -97.602  1.00 84.25      FS6
ATOM  38991  C   LEU F  14     186.298 117.211-100.176  1.00 92.76      FS6
ATOM  38992  O   LEU F  14     186.187 118.435-100.075  1.00 92.76      FS6
ATOM  38993  N   ASP F  15     186.419 116.591-101.347  1.00 93.70      FS6
ATOM  38994  CA  ASP F  15     186.351 117.346-102.588  1.00 93.70      FS6
ATOM  38995  CB  ASP F  15     186.940 116.543-103.753  1.00188.68      FS6
ATOM  38996  CG  ASP F  15     186.344 115.159-103.872  1.00188.68      FS6
ATOM  38997  OD1 ASP F  15     185.113 115.054-104.041  1.00188.68      FS6
ATOM  38998  OD2 ASP F  15     187.110 114.175-103.801  1.00188.68      FS6
ATOM  38999  C   ASP F  15     184.860 117.581-102.777  1.00 93.70      FS6
ATOM  39000  O   ASP F  15     184.048 116.805-102.275  1.00 93.70      FS6
ATOM  39001  N   GLN F  16     184.493 118.643-103.484  1.00 65.32      FS6
ATOM  39002  CA  GLN F  16     183.082 118.967-103.673  1.00 65.32      FS6
ATOM  39003  CB  GLN F  16     182.917 120.036-104.753  1.00144.72      FS6
ATOM  39004  CG  GLN F  16     181.551 120.705-104.725  1.00144.72      FS6
ATOM  39005  CD  GLN F  16     181.192 121.238-103.344  1.00144.72      FS6
ATOM  39006  OE1 GLN F  16     181.926 122.038-102.764  1.00144.72      FS6
ATOM  39007  NE2 GLN F  16     180.056 120.794-102.814  1.00144.72      FS6
ATOM  39008  C   GLN F  16     182.218 117.755-104.002  1.00 65.32      FS6
ATOM  39009  O   GLN F  16     181.026 117.724-103.687  1.00 65.32      FS6
ATOM  39010  N   SER F  17     182.818 116.752-104.629  1.00111.54      FS6
ATOM  39011  CA  SER F  17     182.078 115.551-104.970  1.00111.54      FS6
ATOM  39012  CB  SER F  17     182.854 114.735-106.002  1.00105.10      FS6
ATOM  39013  OG  SER F  17     183.066 115.506-107.173  1.00105.10      FS6
ATOM  39014  C   SER F  17     181.844 114.735-103.705  1.00111.54      FS6
ATOM  39015  O   SER F  17     180.705 114.414-103.367  1.00111.54      FS6
ATOM  39016  N   GLN F  18     182.924 114.419-102.998  1.00 94.21      FS6
ATOM  39017  CA  GLN F  18     182.841 113.647-101.763  1.00 94.21      FS6
ATOM  39018  CB  GLN F  18     184.232 113.480-101.153  1.00139.61      FS6
ATOM  39019  CG  GLN F  18     185.115 112.503-101.904  1.00139.61      FS6
ATOM  39020  CD  GLN F  18     186.572 112.611-101.507  1.00139.61      FS6
ATOM  39021  OE1 GLN F  18     187.402 111.808-101.931  1.00139.61      FS6
ATOM  39022  NE2 GLN F  18     186.895 113.615-100.696  1.00139.61      FS6
ATOM  39023  C   GLN F  18     181.911 114.304-100.752  1.00 94.21      FS6
ATOM  39024  O   GLN F  18     181.254 113.617 -99.972  1.00 94.21      FS6
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ATOM  39025  N   LEU F  19     181.860 115.633-100.764  1.00 69.72       FS6
ATOM  39026  CA  LEU F  19     180.992 116.360 -99.848  1.00 69.72       FS6
ATOM  39027  CB  LEU F  19     181.232 117.866 -99.955  1.00100.37       FS6
ATOM  39028  CG  LEU F  19     180.397 118.760 -99.027  1.00100.37       FS6
ATOM  39029  CD1 LEU F  19     180.974 120.164 -99.038  1.00100.37       FS6
ATOM  39030  CD2 LEU F  19     178.944 118.787 -99.461  1.00100.37       FS6
ATOM  39031  C   LEU F  19     179.540 116.055-100.177  1.00 69.72       FS6
ATOM  39032  O   LEU F  19     178.824 115.461 -99.373  1.00 69.72       FS6
ATOM  39033  N   ALA F  20     179.108 116.474-101.361  1.00105.90       FS6
ATOM  39034  CA  ALA F  20     177.737 116.244-101.796  1.00105.90       FS6
ATOM  39035  CB  ALA F  20     177.542 116.774-103.209  1.00113.92       FS6
ATOM  39036  C   ALA F  20     177.427 114.752-101.742  1.00105.90       FS6
ATOM  39037  O   ALA F  20     176.266 114.345-101.698  1.00105.90       FS6
ATOM  39038  N   LEU F  21     178.479 113.943-101.746  1.00 75.82       FS6
ATOM  39039  CA  LEU F  21     178.329 112.498-101.687  1.00 75.82       FS6
ATOM  39040  CB  LEU F  21     179.691 111.819-101.837  1.00130.00       FS6
ATOM  39041  CG  LEU F  21     179.769 110.348-101.415  1.00130.00       FS6
ATOM  39042  CD1 LEU F  21     178.766 109.526-102.213  1.00130.00       FS6
ATOM  39043  CD2 LEU F  21     181.192 109.831-101.615  1.00130.00       FS6
ATOM  39044  C   LEU F  21     177.712 112.101-100.357  1.00 75.82       FS6
ATOM  39045  O   LEU F  21     176.722 111.374-100.312  1.00 75.82       FS6
ATOM  39046  N   GLU F  22     178.309 112.586 -99.273  1.00131.60       FS6
ATOM  39047  CA  GLU F  22     177.827 112.279 -97.936  1.00131.60       FS6
ATOM  39048  CB  GLU F  22     178.890 112.648 -96.892  1.00 72.68       FS6
ATOM  39049  CG  GLU F  22     180.179 111.844 -97.040  1.00 72.68       FS6
ATOM  39050  CD  GLU F  22     179.954 110.339 -96.911  1.00 72.68       FS6
ATOM  39051  OE1 GLU F  22     178.861 109.862 -97.291  1.00 72.68       FS6
ATOM  39052  OE2 GLU F  22     180.871 109.624 -96.445  1.00 72.68       FS6
ATOM  39053  C   GLU F  22     176.516 112.985 -97.640  1.00131.60       FS6
ATOM  39054  O   GLU F  22     175.702 112.489 -96.863  1.00131.60       FS6
ATOM  39055  N   LYS F  23     176.304 114.138 -98.265  1.00 78.00       FS6
ATOM  39056  CA  LYS F  23     175.072 114.877 -98.053  1.00 78.00       FS6
ATOM  39057  CB  LYS F  23     175.175 116.284 -98.624  1.00 74.59       FS6
ATOM  39058  CG  LYS F  23     176.200 117.143 -97.944  1.00 74.59       FS6
ATOM  39059  CD  LYS F  23     176.005 118.601 -98.312  1.00 74.59       FS6
ATOM  39060  CE  LYS F  23     174.677 119.149 -97.797  1.00 74.59       FS6
ATOM  39061  NZ  LYS F  23     174.510 120.594 -98.153  1.00 74.59       FS6
ATOM  39062  C   LYS F  23     173.913 114.157 -98.717  1.00 78.00       FS6
ATOM  39063  O   LYS F  23     172.850 113.987 -98.116  1.00 78.00       FS6
ATOM  39064  N   GLU F  24     174.112 113.740 -99.963  1.00159.82       FS6
ATOM  39065  CA  GLU F  24     173.060 113.035-100.676  1.00159.82       FS6
ATOM  39066  CB  GLU F  24     173.578 112.511-102.025  1.00189.21       FS6
ATOM  39067  CG  GLU F  24     173.924 111.019-102.084  1.00189.21       FS6
ATOM  39068  CD  GLU F  24     172.718 110.130-102.382  1.00189.21       FS6
ATOM  39069  OE1 GLU F  24     171.999 110.407-103.367  1.00189.21       FS6
ATOM  39070  OE2 GLU F  24     172.495 109.148-101.640  1.00189.21       FS6
ATOM  39071  C   GLU F  24     172.633 111.889 -99.771  1.00159.82       FS6
ATOM  39072  O   GLU F  24     171.463 111.514 -99.733  1.00159.82       FS6
ATOM  39073  N   ILE F  25     173.589 111.354 -99.019  1.00 86.66       FS6
ATOM  39074  CA  ILE F  25     173.303 110.255 -98.109  1.00 86.66       FS6
ATOM  39075  CB  ILE F  25     174.593 109.570 -97.635  1.00 83.56       FS6
ATOM  39076  CG2 ILE F  25     174.252 108.475 -96.646  1.00 83.56       FS6
ATOM  39077  CG1 ILE F  25     175.342 108.990 -98.837  1.00 83.56       FS6
ATOM  39078  CD1 ILE F  25     176.656 108.316 -98.495  1.00 83.56       FS6
ATOM  39079  C   ILE F  25     172.518 110.732 -96.888  1.00 86.66       FS6
ATOM  39080  O   ILE F  25     171.394 110.285 -96.655  1.00 86.66       FS6
ATOM  39081  N   ILE F  26     173.116 111.634 -96.112  1.00 93.55       FS6
ATOM  39082  CA  ILE F  26     172.467 112.176 -94.921  1.00 93.55       FS6
ATOM  39083  CB  ILE F  26     173.075 113.536 -94.516  1.00 66.43       FS6
ATOM  39084  CG2 ILE F  26     172.337 114.103 -93.313  1.00 66.43       FS6
ATOM  39085  CG1 ILE F  26     174.562 113.365 -94.194  1.00 66.43       FS6
ATOM  39086  CD1 ILE F  26     175.269 114.663 -93.855  1.00 66.43       FS6
ATOM  39087  C   ILE F  26     170.998 112.381 -95.233  1.00 93.55       FS6
ATOM  39088  O   ILE F  26     170.123 112.081 -94.422  1.00 93.55       FS6
ATOM  39089  N   GLN F  27     170.739 112.890 -96.429  1.00 91.89       FS6
ATOM  39090  CA  GLN F  27     169.380 113.131 -96.871  1.00 91.89       FS6
ATOM  39091  CB  GLN F  27     169.395 113.750 -98.263  1.00 91.62       FS6
ATOM  39092  CG  GLN F  27     169.793 115.200 -98.262  1.00 91.62       FS6
ATOM  39093  CD  GLN F  27     168.753 116.066 -97.589  1.00 91.62       FS6
ATOM  39094  OE1 GLN F  27     168.906 117.282 -97.497  1.00 91.62       FS6
ATOM  39095  NE2 GLN F  27     167.681 115.442 -97.118  1.00 91.62       FS6
ATOM  39096  C   GLN F  27     168.570 111.846 -96.885  1.00 91.89       FS6
ATOM  39097  O   GLN F  27     167.595 111.708 -96.146  1.00 91.89       FS6
ATOM  39098  N   ARG F  28     168.980 110.907 -97.733  1.00 77.84       FS6
ATOM  39099  CA  ARG F  28     168.291 109.628 -97.850  1.00 77.84       FS6
ATOM  39100  CB  ARG F  28     169.115 108.672 -98.714  1.00186.92       FS6
ATOM  39101  CG  ARG F  28     168.498 107.301 -98.902  1.00186.92       FS6
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ATOM  39102  CD  ARG F  28     168.936 106.665-100.215  1.00186.92       FS6
ATOM  39103  NE  ARG F  28     168.287 107.283-101.372  1.00186.92       FS6
ATOM  39104  CZ  ARG F  28     168.656 108.434-101.928  1.00186.92       FS6
ATOM  39105  NH1 ARG F  28     169.684 109.115-101.443  1.00186.92       FS6
ATOM  39106  NH2 ARG F  28     167.988 108.910-102.970  1.00186.92       FS6
ATOM  39107  C   ARG F  28     168.057 109.030 -96.466  1.00 77.84       FS6
ATOM  39108  O   ARG F  28     166.946 108.610 -96.138  1.00 77.84       FS6
ATOM  39109  N   ALA F  29     169.113 108.997 -95.661  1.00 84.38       FS6
ATOM  39110  CA  ALA F  29     169.025 108.479 -94.305  1.00 84.38       FS6
ATOM  39111  CB  ALA F  29     170.260 108.883 -93.509  1.00 47.02       FS6
ATOM  39112  C   ALA F  29     167.789 109.094 -93.683  1.00 84.38       FS6
ATOM  39113  O   ALA F  29     166.910 108.394 -93.194  1.00 84.38       FS6
ATOM  39114  N   LEU F  30     167.724 110.417 -93.717  1.00 53.97       FS6
ATOM  39115  CA  LEU F  30     166.588 111.122 -93.157  1.00 53.97       FS6
ATOM  39116  CB  LEU F  30     166.729 112.624 -93.394  1.00 63.06       FS6
ATOM  39117  CG  LEU F  30     167.897 113.281 -92.664  1.00 63.06       FS6
ATOM  39118  CD1 LEU F  30     167.939 114.765 -92.975  1.00 63.06       FS6
ATOM  39119  CD2 LEU F  30     167.737 113.054 -91.172  1.00 63.06       FS6
ATOM  39120  C   LEU F  30     165.280 110.623 -93.759  1.00 53.97       FS6
ATOM  39121  O   LEU F  30     164.370 110.222 -93.033  1.00 53.97       FS6
ATOM  39122  N   GLU F  31     165.185 110.641 -95.085  1.00 77.18       FS6
ATOM  39123  CA  GLU F  31     163.968 110.189 -95.744  1.00 77.18       FS6
ATOM  39124  CB  GLU F  31     164.094 110.286 -97.269  1.00135.52       FS6
ATOM  39125  CG  GLU F  31     163.133 111.298 -97.893  1.00135.52       FS6
ATOM  39126  CD  GLU F  31     162.881 111.054 -99.371  1.00135.52       FS6
ATOM  39127  OE1 GLU F  31     163.848 111.085-100.162  1.00135.52       FS6
ATOM  39128  OE2 GLU F  31     161.708 110.832 -99.742  1.00135.52       FS6
ATOM  39129  C   GLU F  31     163.610 108.765 -95.355  1.00 77.18       FS6
ATOM  39130  O   GLU F  31     162.438 108.411 -95.307  1.00 77.18       FS6
ATOM  39131  N   ASN F  32     164.618 107.950 -95.073  1.00100.82       FS6
ATOM  39132  CA  ASN F  32     164.379 106.564 -94.684  1.00100.82       FS6
ATOM  39133  CB  ASN F  32     165.705 105.801 -94.610  1.00162.68       FS6
ATOM  39134  CG  ASN F  32     166.317 105.559 -95.974  1.00162.68       FS6
ATOM  39135  OD1 ASN F  32     167.474 105.152 -96.085  1.00162.68       FS6
ATOM  39136  ND2 ASN F  32     165.538 105.800 -97.023  1.00162.68       FS6
ATOM  39137  C   ASN F  32     163.653 106.459 -93.342  1.00100.82       FS6
ATOM  39138  O   ASN F  32     163.071 105.421 -93.028  1.00100.82       FS6
ATOM  39139  N   TYR F  33     163.687 107.530 -92.554  1.00100.66       FS6
ATOM  39140  CA  TYR F  33     163.028 107.525 -91.252  1.00100.66       FS6
ATOM  39141  CB  TYR F  33     164.061 107.713 -90.130  1.00 68.81       FS6
ATOM  39142  CG  TYR F  33     165.097 106.613 -90.081  1.00 68.81       FS6
ATOM  39143  CD1 TYR F  33     166.322 106.754 -90.725  1.00 68.81       FS6
ATOM  39144  CE1 TYR F  33     167.246 105.714 -90.746  1.00 68.81       FS6
ATOM  39145  CD2 TYR F  33     164.823 105.404 -89.450  1.00 68.81       FS6
ATOM  39146  CE2 TYR F  33     165.736 104.362 -89.468  1.00 68.81       FS6
ATOM  39147  CZ  TYR F  33     166.941 104.522 -90.119  1.00 68.81       FS6
ATOM  39148  OH  TYR F  33     167.832 103.480 -90.170  1.00 68.81       FS6
ATOM  39149  C   TYR F  33     161.917 108.567 -91.119  1.00100.66       FS6
ATOM  39150  O   TYR F  33     161.795 109.230 -90.091  1.00100.66       FS6
ATOM  39151  N   GLY F  34     161.107 108.699 -92.165  1.00 91.26       FS6
ATOM  39152  CA  GLY F  34     160.006 109.648 -92.149  1.00 91.26       FS6
ATOM  39153  C   GLY F  34     160.333 111.005 -91.556  1.00 91.26       FS6
ATOM  39154  O   GLY F  34     159.448 111.706 -91.054  1.00 91.26       FS6
ATOM  39155  N   ALA F  35     161.603 111.386 -91.617  1.00 76.90       FS6
ATOM  39156  CA  ALA F  35     162.030 112.668 -91.078  1.00 76.90       FS6
ATOM  39157  CB  ALA F  35     163.497 112.596 -90.675  1.00 90.22       FS6
ATOM  39158  C   ALA F  35     161.820 113.814 -92.065  1.00 76.90       FS6
ATOM  39159  O   ALA F  35     162.546 113.940 -93.056  1.00 76.90       FS6
ATOM  39160  N   ARG F  36     160.821 114.649 -91.804  1.00 79.73       FS6
ATOM  39161  CA  ARG F  36     160.577 115.789 -92.679  1.00 79.73       FS6
ATOM  39162  CB  ARG F  36     159.255 116.478 -92.325  1.00115.00       FS6
ATOM  39163  CG  ARG F  36     158.617 117.239 -93.480  1.00115.00       FS6
ATOM  39164  CD  ARG F  36     157.399 118.001 -93.012  1.00115.00       FS6
ATOM  39165  NE  ARG F  36     157.769 119.223 -92.308  1.00115.00       FS6
ATOM  39166  CZ  ARG F  36     156.952 119.903 -91.511  1.00115.00       FS6
ATOM  39167  NH1 ARG F  36     155.712 119.475 -91.308  1.00115.00       FS6
ATOM  39168  NH2 ARG F  36     157.372 121.015 -90.920  1.00115.00       FS6
ATOM  39169  C   ARG F  36     161.744 116.733 -92.417  1.00 79.73       FS6
ATOM  39170  O   ARG F  36     162.472 116.548 -91.444  1.00 79.73       FS6
ATOM  39171  N   VAL F  37     161.928 117.742 -93.262  1.00 81.34       FS6
ATOM  39172  CA  VAL F  37     163.045 118.657 -93.072  1.00 81.34       FS6
ATOM  39173  CB  VAL F  37     164.139 118.411 -94.126  1.00 97.74       FS6
ATOM  39174  CG1 VAL F  37     165.321 119.332 -93.869  1.00 97.74       FS6
ATOM  39175  CG2 VAL F  37     164.570 116.950 -94.097  1.00 97.74       FS6
ATOM  39176  C   VAL F  37     162.681 120.126 -93.124  1.00 81.34       FS6
ATOM  39177  O   VAL F  37     162.375 120.654 -94.185  1.00 81.34       FS6
ATOM  39178  N   GLU F  38     162.719 120.787 -91.974  1.00 76.49       FS6
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ATOM  39179  CA  GLU F  38     162.420 122.211 -91.914  1.00 76.49       FS6
ATOM  39180  CB  GLU F  38     161.839 122.577 -90.549  1.00125.51       FS6
ATOM  39181  CG  GLU F  38     160.532 121.863 -90.252  1.00125.51       FS6
ATOM  39182  CD  GLU F  38     159.986 122.182 -88.879  1.00125.51       FS6
ATOM  39183  OE1 GLU F  38     158.913 121.648 -88.528  1.00125.51       FS6
ATOM  39184  OE2 GLU F  38     160.627 122.966 -88.149  1.00125.51       FS6
ATOM  39185  C   GLU F  38     163.743 122.928 -92.155  1.00 76.49       FS6
ATOM  39186  O   GLU F  38     164.738 122.270 -92.467  1.00 76.49       FS6
ATOM  39187  N   LYS F  39     163.769 124.252 -91.997  1.00115.15       FS6
ATOM  39188  CA  LYS F  39     164.988 125.030 -92.247  1.00115.15       FS6
ATOM  39189  CB  LYS F  39     164.888 126.420 -91.607  1.00112.24       FS6
ATOM  39190  CG  LYS F  39     164.740 126.435 -90.106  1.00112.24       FS6
ATOM  39191  CD  LYS F  39     165.076 127.820 -89.571  1.00112.24       FS6
ATOM  39192  CE  LYS F  39     164.759 127.957 -88.086  1.00112.24       FS6
ATOM  39193  NZ  LYS F  39     163.291 127.898 -87.817  1.00112.24       FS6
ATOM  39194  C   LYS F  39     166.312 124.370 -91.839  1.00115.15       FS6
ATOM  39195  O   LYS F  39     166.387 123.645 -90.848  1.00115.15       FS6
ATOM  39196  N   VAL F  40     167.351 124.635 -92.629  1.00106.70       FS6
ATOM  39197  CA  VAL F  40     168.691 124.091 -92.407  1.00106.70       FS6
ATOM  39198  CB  VAL F  40     169.034 123.016 -93.479  1.00 79.33       FS6
ATOM  39199  CG1 VAL F  40     168.730 123.552 -94.862  1.00 79.33       FS6
ATOM  39200  CG2 VAL F  40     170.505 122.620 -93.397  1.00 79.33       FS6
ATOM  39201  C   VAL F  40     169.758 125.191 -92.449  1.00106.70       FS6
ATOM  39202  O   VAL F  40     169.526 126.284 -92.971  1.00106.70       FS6
ATOM  39203  N   GLU F  41     170.921 124.890 -91.878  1.00 80.54       FS6
ATOM  39204  CA  GLU F  41     172.049 125.813 -91.843  1.00 80.54       FS6
ATOM  39205  CB  GLU F  41     172.111 126.531 -90.495  1.00122.51       FS6
ATOM  39206  CG  GLU F  41     170.974 127.513 -90.277  1.00122.51       FS6
ATOM  39207  CD  GLU F  41     170.989 128.129 -88.892  1.00122.51       FS6
ATOM  39208  OE1 GLU F  41     172.051 128.646 -88.481  1.00122.51       FS6
ATOM  39209  OE2 GLU F  41     169.936 128.103 -88.217  1.00122.51       FS6
ATOM  39210  C   GLU F  41     173.317 124.999 -92.068  1.00 80.54       FS6
ATOM  39211  O   GLU F  41     173.492 123.935 -91.476  1.00 80.54       FS6
ATOM  39212  N   GLU F  42     174.197 125.492 -92.932  1.00112.84       FS6
ATOM  39213  CA  GLU F  42     175.425 124.770 -93.236  1.00112.84       FS6
ATOM  39214  CB  GLU F  42     175.346 124.234 -94.666  1.00 96.95       FS6
ATOM  39215  CG  GLU F  42     176.424 123.241 -95.056  1.00 96.95       FS6
ATOM  39216  CD  GLU F  42     176.084 122.507 -96.353  1.00 96.95       FS6
ATOM  39217  OE1 GLU F  42     176.943 121.754 -96.870  1.00 96.95       FS6
ATOM  39218  OE2 GLU F  42     174.949 122.681 -96.853  1.00 96.95       FS6
ATOM  39219  C   GLU F  42     176.638 125.670 -93.065  1.00112.84       FS6
ATOM  39220  O   GLU F  42     177.022 126.385 -93.985  1.00112.84       FS6
ATOM  39221  N   LEU F  43     177.236 125.631 -91.879  1.00 80.76       FS6
ATOM  39222  CA  LEU F  43     178.404 126.450 -91.576  1.00 80.76       FS6
ATOM  39223  CB  LEU F  43     178.478 126.722 -90.074  1.00102.73       FS6
ATOM  39224  CG  LEU F  43     177.351 127.564 -89.474  1.00102.73       FS6
ATOM  39225  CD1 LEU F  43     177.304 128.907 -90.180  1.00102.73       FS6
ATOM  39226  CD2 LEU F  43     176.021 126.840 -89.615  1.00102.73       FS6
ATOM  39227  C   LEU F  43     179.701 125.797 -92.049  1.00 80.76       FS6
ATOM  39228  O   LEU F  43     180.754 126.436 -92.094  1.00 80.76       FS6
ATOM  39229  N   GLY F  44     179.627 124.517 -92.390  1.00 67.41       FS6
ATOM  39230  CA  GLY F  44     180.803 123.822 -92.876  1.00 67.41       FS6
ATOM  39231  C   GLY F  44     182.053 123.891 -92.019  1.00 67.41       FS6
ATOM  39232  O   GLY F  44     182.005 123.716 -90.805  1.00 67.41       FS6
ATOM  39233  N   LEU F  45     183.186 124.138 -92.666  1.00107.31       FS6
ATOM  39234  CA  LEU F  45     184.470 124.203 -91.981  1.00107.31       FS6
ATOM  39235  CB  LEU F  45     185.576 124.586 -92.968  1.00161.29       FS6
ATOM  39236  CG  LEU F  45     185.892 123.585 -94.081  1.00161.29       FS6
ATOM  39237  CD1 LEU F  45     186.948 124.170 -95.003  1.00161.29       FS6
ATOM  39238  CD2 LEU F  45     186.374 122.277 -93.481  1.00161.29       FS6
ATOM  39239  C   LEU F  45     184.507 125.157 -90.802  1.00107.31       FS6
ATOM  39240  O   LEU F  45     184.204 126.339 -90.940  1.00107.31       FS6
ATOM  39241  N   ARG F  46     184.889 124.624 -89.643  1.00 78.75       FS6
ATOM  39242  CA  ARG F  46     185.009 125.401 -88.413  1.00 78.75       FS6
ATOM  39243  CB  ARG F  46     183.701 125.379 -87.619  1.00108.69       FS6
ATOM  39244  CG  ARG F  46     182.607 126.252 -88.204  1.00108.69       FS6
ATOM  39245  CD  ARG F  46     181.759 126.841 -87.098  1.00108.69       FS6
ATOM  39246  NE  ARG F  46     182.596 127.510 -86.106  1.00108.69       FS6
ATOM  39247  CZ  ARG F  46     182.134 128.151 -85.037  1.00108.69       FS6
ATOM  39248  NH1 ARG F  46     180.829 128.220 -84.805  1.00108.69       FS6
ATOM  39249  NH2 ARG F  46     182.985 128.726 -84.196  1.00108.69       FS6
ATOM  39250  C   ARG F  46     186.145 124.858 -87.549  1.00 78.75       FS6
ATOM  39251  O   ARG F  46     186.458 123.660 -87.591  1.00 78.75       FS6
ATOM  39252  N   ARG F  47     186.746 125.746 -86.759  1.00 86.07       FS6
ATOM  39253  CA  ARG F  47     187.870 125.388 -85.897  1.00 86.07       FS6
ATOM  39254  CB  ARG F  47     188.722 126.628 -85.613  1.00200.43       FS6
ATOM  39255  CG  ARG F  47     188.754 127.640 -86.756  1.00200.43       FS6
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ATOM  39256  CD  ARG F  47     189.127 127.001 -88.093  1.00200.43      FS6
ATOM  39257  NE  ARG F  47     189.048 127.955 -89.199  1.00200.43      FS6
ATOM  39258  CZ  ARG F  47     189.186 127.632 -90.482  1.00200.43      FS6
ATOM  39259  NH1 ARG F  47     189.411 126.372 -90.832  1.00200.43      FS6
ATOM  39260  NH2 ARG F  47     189.098 128.569 -91.417  1.00200.43      FS6
ATOM  39261  C   ARG F  47     187.430 124.760 -84.579  1.00 86.07      FS6
ATOM  39262  O   ARG F  47     186.961 125.451 -83.679  1.00 86.07      FS6
ATOM  39263  N   LEU F  48     187.592 123.447 -84.469  1.00 65.44      FS6
ATOM  39264  CA  LEU F  48     187.217 122.721 -83.264  1.00 65.44      FS6
ATOM  39265  CB  LEU F  48     187.424 121.231 -83.485  1.00 54.52      FS6
ATOM  39266  CG  LEU F  48     186.709 120.696 -84.722  1.00 54.52      FS6
ATOM  39267  CD1 LEU F  48     187.092 119.242 -84.951  1.00 54.52      FS6
ATOM  39268  CD2 LEU F  48     185.212 120.844 -84.539  1.00 54.52      FS6
ATOM  39269  C   LEU F  48     188.057 123.177 -82.082  1.00 65.44      FS6
ATOM  39270  O   LEU F  48     189.143 123.713 -82.263  1.00 65.44      FS6
ATOM  39271  N   ALA F  49     187.556 122.962 -80.872  1.00 61.05      FS6
ATOM  39272  CA  ALA F  49     188.283 123.362 -79.670  1.00 61.05      FS6
ATOM  39273  CB  ALA F  49     187.308 123.631 -78.528  1.00 78.26      FS6
ATOM  39274  C   ALA F  49     189.257 122.262 -79.278  1.00 61.05      FS6
ATOM  39275  O   ALA F  49     190.076 122.424 -78.367  1.00 61.05      FS6
ATOM  39276  N   TYR F  50     189.153 121.135 -79.970  1.00 46.63      FS6
ATOM  39277  CA  TYR F  50     190.028 120.007 -79.712  1.00 46.63      FS6
ATOM  39278  CB  TYR F  50     189.579 119.246 -78.465  1.00 45.52      FS6
ATOM  39279  CG  TYR F  50     188.182 118.668 -78.526  1.00 45.52      FS6
ATOM  39280  CD1 TYR F  50     187.085 119.413 -78.133  1.00 45.52      FS6
ATOM  39281  CE1 TYR F  50     185.814 118.872 -78.161  1.00 45.52      FS6
ATOM  39282  CD2 TYR F  50     187.969 117.358 -78.957  1.00 45.52      FS6
ATOM  39283  CE2 TYR F  50     186.703 116.806 -78.991  1.00 45.52      FS6
ATOM  39284  CZ  TYR F  50     185.627 117.566 -78.593  1.00 45.52      FS6
ATOM  39285  OH  TYR F  50     184.357 117.025 -78.635  1.00 45.52      FS6
ATOM  39286  C   TYR F  50     190.061 119.077 -80.916  1.00 46.63      FS6
ATOM  39287  O   TYR F  50     189.049 118.862 -81.584  1.00 46.63      FS6
ATOM  39288  N   PRO F  51     191.233 118.512 -81.213  1.00 60.68      FS6
ATOM  39289  CD  PRO F  51     192.482 118.488 -80.435  1.00111.64      FS6
ATOM  39290  CA  PRO F  51     191.314 117.618 -82.365  1.00 60.68      FS6
ATOM  39291  CB  PRO F  51     192.742 117.086 -82.285  1.00111.64      FS6
ATOM  39292  CG  PRO F  51     193.050 117.155 -80.812  1.00111.64      FS6
ATOM  39293  C   PRO F  51     190.273 116.507 -82.364  1.00 60.68      FS6
ATOM  39294  O   PRO F  51     190.198 115.716 -81.429  1.00 60.68      FS6
ATOM  39295  N   ILE F  52     189.443 116.466 -83.397  1.00 55.41      FS6
ATOM  39296  CA  ILE F  52     188.456 115.408 -83.495  1.00 55.41      FS6
ATOM  39297  CB  ILE F  52     187.050 115.935 -83.856  1.00 60.24      FS6
ATOM  39298  CG2 ILE F  52     186.125 114.772 -84.198  1.00 60.24      FS6
ATOM  39299  CG1 ILE F  52     186.472 116.714 -82.674  1.00 60.24      FS6
ATOM  39300  CD1 ILE F  52     184.955 116.902 -82.725  1.00 60.24      FS6
ATOM  39301  C   ILE F  52     188.941 114.491 -84.599  1.00 55.41      FS6
ATOM  39302  O   ILE F  52     189.063 114.909 -85.750  1.00 55.41      FS6
ATOM  39303  N   ALA F  53     189.236 113.245 -84.246  1.00 74.21      FS6
ATOM  39304  CA  ALA F  53     189.713 112.274 -85.222  1.00 74.21      FS6
ATOM  39305  CB  ALA F  53     188.673 112.095 -86.338  1.00 50.42      FS6
ATOM  39306  C   ALA F  53     191.053 112.725 -85.803  1.00 74.21      FS6
ATOM  39307  O   ALA F  53     191.279 112.660 -87.007  1.00 74.21      FS6
ATOM  39308  N   LYS F  54     191.937 113.192 -84.931  1.00107.00      FS6
ATOM  39309  CA  LYS F  54     193.258 113.640 -85.347  1.00107.00      FS6
ATOM  39310  CB  LYS F  54     193.962 112.537 -86.138  1.00129.43      FS6
ATOM  39311  CG  LYS F  54     193.774 111.141 -85.566  1.00129.43      FS6
ATOM  39312  CD  LYS F  54     194.186 111.077 -84.107  1.00129.43      FS6
ATOM  39313  CE  LYS F  54     193.933 109.697 -83.521  1.00129.43      FS6
ATOM  39314  NZ  LYS F  54     194.239 109.673 -82.065  1.00129.43      FS6
ATOM  39315  C   LYS F  54     193.198 114.906 -86.195  1.00107.00      FS6
ATOM  39316  O   LYS F  54     194.206 115.588 -86.369  1.00107.00      FS6
ATOM  39317  N   ASP F  55     192.020 115.223 -86.719  1.00 67.58      FS6
ATOM  39318  CA  ASP F  55     191.862 116.409 -87.553  1.00 67.58      FS6
ATOM  39319  CB  ASP F  55     190.817 116.137 -88.634  1.00 84.96      FS6
ATOM  39320  CG  ASP F  55     190.989 117.023 -89.846  1.00 84.96      FS6
ATOM  39321  OD1 ASP F  55     190.834 118.257 -89.719  1.00 84.96      FS6
ATOM  39322  OD2 ASP F  55     191.288 116.480 -90.930  1.00 84.96      FS6
ATOM  39323  C   ASP F  55     191.455 117.633 -86.724  1.00 67.58      FS6
ATOM  39324  O   ASP F  55     190.544 117.554 -85.899  1.00 67.58      FS6
ATOM  39325  N   PRO F  56     192.125 118.782 -86.942  1.00 55.67      FS6
ATOM  39326  CD  PRO F  56     193.311 118.907 -87.806  1.00 79.91      FS6
ATOM  39327  CA  PRO F  56     191.880 120.049 -86.244  1.00 55.67      FS6
ATOM  39328  CB  PRO F  56     193.215 120.753 -86.359  1.00 79.91      FS6
ATOM  39329  CG  PRO F  56     193.603 120.403 -87.744  1.00 79.91      FS6
ATOM  39330  C   PRO F  56     190.755 120.921 -86.792  1.00 55.67      FS6
ATOM  39331  O   PRO F  56     190.702 122.110 -86.478  1.00 55.67      FS6
ATOM  39332  N   GLN F  57     189.871 120.346 -87.605  1.00 64.38      FS6
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ATOM  39333  CA  GLN F  57     188.747 121.086 -88.184  1.00 64.38       FS6
ATOM  39334  CB  GLN F  57     189.169 121.801 -89.470  1.00188.47       FS6
ATOM  39335  CG  GLN F  57     190.189 122.910 -89.284  1.00188.47       FS6
ATOM  39336  CD  GLN F  57     190.496 123.637 -90.579  1.00188.47       FS6
ATOM  39337  OE1 GLN F  57     191.333 124.540 -90.613  1.00188.47       FS6
ATOM  39338  NE2 GLN F  57     189.817 123.249 -91.653  1.00188.47       FS6
ATOM  39339  C   GLN F  57     187.595 120.146 -88.507  1.00 64.38       FS6
ATOM  39340  O   GLN F  57     187.772 118.926 -88.568  1.00 64.38       FS6
ATOM  39341  N   GLY F  58     186.415 120.721 -88.721  1.00 44.61       FS6
ATOM  39342  CA  GLY F  58     185.248 119.917 -89.040  1.00 44.61       FS6
ATOM  39343  C   GLY F  58     184.233 120.674 -89.873  1.00 44.61       FS6
ATOM  39344  O   GLY F  58     184.077 121.889 -89.729  1.00 44.61       FS6
ATOM  39345  N   TYR F  59     183.545 119.956 -90.754  1.00 53.64       FS6
ATOM  39346  CA  TYR F  59     182.536 120.557 -91.621  1.00 53.64       FS6
ATOM  39347  CB  TYR F  59     182.577 119.899 -93.001  1.00123.19       FS6
ATOM  39348  CG  TYR F  59     181.846 120.656 -94.088  1.00123.19       FS6
ATOM  39349  CD1 TYR F  59     182.441 121.736 -94.736  1.00123.19       FS6
ATOM  39350  CE1 TYR F  59     181.769 122.430 -95.738  1.00123.19       FS6
ATOM  39351  CD2 TYR F  59     180.558 120.289 -94.469  1.00123.19       FS6
ATOM  39352  CE2 TYR F  59     179.879 120.973 -95.465  1.00123.19       FS6
ATOM  39353  CZ  TYR F  59     180.487 122.040 -96.095  1.00123.19       FS6
ATOM  39354  OH  TYR F  59     179.802 122.709 -97.083  1.00123.19       FS6
ATOM  39355  C   TYR F  59     181.188 120.312 -90.957  1.00 53.64       FS6
ATOM  39356  O   TYR F  59     180.727 119.172 -90.857  1.00 53.64       FS6
ATOM  39357  N   PHE F  60     180.563 121.396 -90.511  1.00 70.60       FS6
ATOM  39358  CA  PHE F  60     179.291 121.336 -89.801  1.00 70.60       FS6
ATOM  39359  CB  PHE F  60     179.227 122.476 -88.777  1.00105.26       FS6
ATOM  39360  CG  PHE F  60     179.986 122.201 -87.507  1.00105.26       FS6
ATOM  39361  CD1 PHE F  60     181.339 121.887 -87.537  1.00105.26       FS6
ATOM  39362  CD2 PHE F  60     179.345 122.260 -86.276  1.00105.26       FS6
ATOM  39363  CE1 PHE F  60     182.041 121.635 -86.360  1.00105.26       FS6
ATOM  39364  CE2 PHE F  60     180.040 122.009 -85.095  1.00105.26       FS6
ATOM  39365  CZ  PHE F  60     181.388 121.696 -85.138  1.00105.26       FS6
ATOM  39366  C   PHE F  60     177.996 121.337 -90.603  1.00 70.60       FS6
ATOM  39367  O   PHE F  60     177.876 121.979 -91.644  1.00 70.60       FS6
ATOM  39368  N   LEU F  61     177.019 120.616 -90.062  1.00100.57       FS6
ATOM  39369  CA  LEU F  61     175.687 120.498 -90.630  1.00100.57       FS6
ATOM  39370  CB  LEU F  61     175.533 119.145 -91.317  1.00 91.91       FS6
ATOM  39371  CG  LEU F  61     176.244 119.062 -92.667  1.00 91.91       FS6
ATOM  39372  CD1 LEU F  61     176.147 117.661 -93.233  1.00 91.91       FS6
ATOM  39373  CD2 LEU F  61     175.601 120.059 -93.617  1.00 91.91       FS6
ATOM  39374  C   LEU F  61     174.660 120.650 -89.502  1.00100.57       FS6
ATOM  39375  O   LEU F  61     174.941 120.324 -88.346  1.00100.57       FS6
ATOM  39376  N   TRP F  62     173.474 121.146 -89.843  1.00 74.13       FS6
ATOM  39377  CA  TRP F  62     172.408 121.366 -88.863  1.00 74.13       FS6
ATOM  39378  CB  TRP F  62     172.584 122.743 -88.223  1.00 91.90       FS6
ATOM  39379  CG  TRP F  62     171.565 123.098 -87.191  1.00 91.90       FS6
ATOM  39380  CD2 TRP F  62     170.266 123.651 -87.422  1.00 91.90       FS6
ATOM  39381  CE2 TRP F  62     169.683 123.884 -86.161  1.00 91.90       FS6
ATOM  39382  CE3 TRP F  62     169.537 123.975 -88.571  1.00 91.90       FS6
ATOM  39383  CD1 TRP F  62     171.709 123.012 -85.840  1.00 91.90       FS6
ATOM  39384  NE1 TRP F  62     170.586 123.486 -85.213  1.00 91.90       FS6
ATOM  39385  CZ2 TRP F  62     168.406 124.430 -86.015  1.00 91.90       FS6
ATOM  39386  CZ3 TRP F  62     168.267 124.517 -88.426  1.00 91.90       FS6
ATOM  39387  CH2 TRP F  62     167.716 124.738 -87.156  1.00 91.90       FS6
ATOM  39388  C   TRP F  62     171.046 121.306 -89.540  1.00 74.13       FS6
ATOM  39389  O   TRP F  62     170.685 122.202 -90.289  1.00 74.13       FS6
ATOM  39390  N   TYR F  63     170.279 120.262 -89.275  1.00 79.30       FS6
ATOM  39391  CA  TYR F  63     168.979 120.157 -89.906  1.00 79.30       FS6
ATOM  39392  CB  TYR F  63     168.833 118.829 -90.656  1.00102.40       FS6
ATOM  39393  CG  TYR F  63     169.924 118.456 -91.632  1.00102.40       FS6
ATOM  39394  CD1 TYR F  63     169.652 117.578 -92.677  1.00102.40       FS6
ATOM  39395  CE1 TYR F  63     170.644 117.170 -93.559  1.00102.40       FS6
ATOM  39396  CD2 TYR F  63     171.229 118.925 -91.490  1.00102.40       FS6
ATOM  39397  CE2 TYR F  63     172.235 118.523 -92.367  1.00102.40       FS6
ATOM  39398  CZ  TYR F  63     171.934 117.641 -93.402  1.00102.40       FS6
ATOM  39399  OH  TYR F  63     172.914 117.211 -94.274  1.00102.40       FS6
ATOM  39400  C   TYR F  63     167.850 120.213 -88.896  1.00 79.30       FS6
ATOM  39401  O   TYR F  63     167.748 119.324 -88.059  1.00 79.30       FS6
ATOM  39402  N   GLN F  64     167.004 121.237 -88.944  1.00 85.06       FS6
ATOM  39403  CA  GLN F  64     165.865 121.246 -88.031  1.00 85.06       FS6
ATOM  39404  CB  GLN F  64     165.278 122.641 -87.846  1.00 99.77       FS6
ATOM  39405  CG  GLN F  64     164.023 122.619 -86.984  1.00 99.77       FS6
ATOM  39406  CD  GLN F  64     163.587 123.996 -86.523  1.00 99.77       FS6
ATOM  39407  OE1 GLN F  64     164.330 124.704 -85.840  1.00 99.77       FS6
ATOM  39408  NE2 GLN F  64     162.370 124.381 -86.890  1.00 99.77       FS6
ATOM  39409  C   GLN F  64     164.847 120.362 -88.736  1.00 85.06       FS6
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ATOM  39410  O   GLN F  64     164.484 120.624 -89.880  1.00 85.06      FS6
ATOM  39411  N   VAL F  65     164.394 119.306 -88.079  1.00 73.32      FS6
ATOM  39412  CA  VAL F  65     163.449 118.415 -88.727  1.00 73.32      FS6
ATOM  39413  CB  VAL F  65     164.169 117.165 -89.270  1.00 49.42      FS6
ATOM  39414  CG1 VAL F  65     165.524 117.558 -89.807  1.00 49.42      FS6
ATOM  39415  CG2 VAL F  65     164.302 116.103 -88.185  1.00 49.42      FS6
ATOM  39416  C   VAL F  65     162.341 117.956 -87.801  1.00 73.32      FS6
ATOM  39417  O   VAL F  65     162.441 118.099 -86.586  1.00 73.32      FS6
ATOM  39418  N   GLU F  66     161.281 117.408 -88.386  1.00 62.09      FS6
ATOM  39419  CA  GLU F  66     160.169 116.887 -87.606  1.00 62.09      FS6
ATOM  39420  CB  GLU F  66     158.858 117.585 -87.981  1.00113.47      FS6
ATOM  39421  CG  GLU F  66     157.677 117.168 -87.111  1.00113.47      FS6
ATOM  39422  CD  GLU F  66     156.418 117.979 -87.375  1.00113.47      FS6
ATOM  39423  OE1 GLU F  66     155.444 117.826 -86.607  1.00113.47      FS6
ATOM  39424  OE2 GLU F  66     156.399 118.766 -88.347  1.00113.47      FS6
ATOM  39425  C   GLU F  66     160.088 115.407 -87.939  1.00 62.09      FS6
ATOM  39426  O   GLU F  66     159.784 115.040 -89.067  1.00 62.09      FS6
ATOM  39427  N   MET F  67     160.381 114.549 -86.973  1.00 72.12      FS6
ATOM  39428  CA  MET F  67     160.324 113.123 -87.247  1.00 72.12      FS6
ATOM  39429  CB  MET F  67     161.721 112.591 -87.557  1.00 72.24      FS6
ATOM  39430  CG  MET F  67     162.693 112.723 -86.422  1.00 72.24      FS6
ATOM  39431  SD  MET F  67     164.191 111.805 -86.753  1.00 72.24      FS6
ATOM  39432  CE  MET F  67     163.596 110.129 -86.520  1.00 72.24      FS6
ATOM  39433  C   MET F  67     159.703 112.303 -86.124  1.00 72.12      FS6
ATOM  39434  O   MET F  67     159.465 112.807 -85.021  1.00 72.12      FS6
ATOM  39435  N   PRO F  68     159.418 111.021 -86.405  1.00 75.90      FS6
ATOM  39436  CD  PRO F  68     159.463 110.439 -87.757  1.00 74.16      FS6
ATOM  39437  CA  PRO F  68     158.820 110.071 -85.462  1.00 75.90      FS6
ATOM  39438  CB  PRO F  68     158.549 108.846 -86.332  1.00 74.16      FS6
ATOM  39439  CG  PRO F  68     158.355 109.432 -87.694  1.00 74.16      FS6
ATOM  39440  C   PRO F  68     159.739 109.741 -84.293  1.00 75.90      FS6
ATOM  39441  O   PRO F  68     160.856 109.256 -84.484  1.00 75.90      FS6
ATOM  39442  N   GLU F  69     159.259 109.997 -83.082  1.00 68.69      FS6
ATOM  39443  CA  GLU F  69     160.032 109.727 -81.879  1.00 68.69      FS6
ATOM  39444  CB  GLU F  69     159.184 110.010 -80.635  1.00136.95      FS6
ATOM  39445  CG  GLU F  69     157.883 110.760 -80.910  1.00136.95      FS6
ATOM  39446  CD  GLU F  69     156.765 109.858 -81.404  1.00136.95      FS6
ATOM  39447  OE1 GLU F  69     156.977 109.131 -82.395  1.00136.95      FS6
ATOM  39448  OE2 GLU F  69     155.669 109.880 -80.803  1.00136.95      FS6
ATOM  39449  C   GLU F  69     160.490 108.272 -81.865  1.00 68.69      FS6
ATOM  39450  O   GLU F  69     161.645 107.975 -81.561  1.00 68.69      FS6
ATOM  39451  N   ASP F  70     159.584 107.368 -82.218  1.00 67.01      FS6
ATOM  39452  CA  ASP F  70     159.891 105.948 -82.215  1.00 67.01      FS6
ATOM  39453  CB  ASP F  70     158.681 105.144 -82.692  1.00185.70      FS6
ATOM  39454  CG  ASP F  70     158.434 105.293 -84.175  1.00185.70      FS6
ATOM  39455  OD1 ASP F  70     158.348 106.445 -84.649  1.00185.70      FS6
ATOM  39456  OD2 ASP F  70     158.325 104.257 -84.866  1.00185.70      FS6
ATOM  39457  C   ASP F  70     161.107 105.590 -83.062  1.00 67.01      FS6
ATOM  39458  O   ASP F  70     161.598 104.458 -82.993  1.00 67.01      FS6
ATOM  39459  N   ARG F  71     161.607 106.538 -83.852  1.00 76.14      FS6
ATOM  39460  CA  ARG F  71     162.763 106.239 -84.691  1.00 76.14      FS6
ATOM  39461  CB  ARG F  71     162.311 105.937 -86.119  1.00118.61      FS6
ATOM  39462  CG  ARG F  71     161.423 104.719 -86.237  1.00118.61      FS6
ATOM  39463  CD  ARG F  71     161.511 104.123 -87.626  1.00118.61      FS6
ATOM  39464  NE  ARG F  71     161.129 105.074 -88.665  1.00118.61      FS6
ATOM  39465  CZ  ARG F  71     161.285 104.857 -89.968  1.00118.61      FS6
ATOM  39466  NH1 ARG F  71     161.823 103.719 -90.394  1.00118.61      FS6
ATOM  39467  NH2 ARG F  71     160.892 105.770 -90.848  1.00118.61      FS6
ATOM  39468  C   ARG F  71     163.863 107.293 -84.738  1.00 76.14      FS6
ATOM  39469  O   ARG F  71     164.577 107.395 -85.731  1.00 76.14      FS6
ATOM  39470  N   VAL F  72     164.021 108.067 -83.673  1.00 65.23      FS6
ATOM  39471  CA  VAL F  72     165.057 109.089 -83.669  1.00 65.23      FS6
ATOM  39472  CB  VAL F  72     164.770 110.174 -82.628  1.00 59.84      FS6
ATOM  39473  CG1 VAL F  72     165.773 111.308 -82.763  1.00 59.84      FS6
ATOM  39474  CG2 VAL F  72     163.367 110.684 -82.810  1.00 59.84      FS6
ATOM  39475  C   VAL F  72     166.407 108.464 -83.366  1.00 65.23      FS6
ATOM  39476  O   VAL F  72     167.447 108.968 -83.799  1.00 65.23      FS6
ATOM  39477  N   ASN F  73     166.393 107.367 -82.617  1.00 90.97      FS6
ATOM  39478  CA  ASN F  73     167.635 106.697 -82.283  1.00 90.97      FS6
ATOM  39479  CB  ASN F  73     167.425 105.689 -81.154  1.00102.38      FS6
ATOM  39480  CG  ASN F  73     167.538 106.323 -79.774  1.00102.38      FS6
ATOM  39481  OD1 ASN F  73     167.613 105.622 -78.765  1.00102.38      FS6
ATOM  39482  ND2 ASN F  73     167.550 107.652 -79.725  1.00102.38      FS6
ATOM  39483  C   ASN F  73     168.201 106.005 -83.510  1.00 90.97      FS6
ATOM  39484  O   ASN F  73     169.391 106.129 -83.800  1.00 90.97      FS6
ATOM  39485  N   ASP F  74     167.353 105.285 -84.238  1.00 79.52      FS6
ATOM  39486  CA  ASP F  74     167.808 104.593 -85.439  1.00 79.52      FS6
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ATOM  39487  CB  ASP F  74     166.665 103.820 -86.079  1.00102.99      FS6
ATOM  39488  CG  ASP F  74     166.376 102.536 -85.359  1.00102.99      FS6
ATOM  39489  OD1 ASP F  74     167.284 101.682 -85.310  1.00102.99      FS6
ATOM  39490  OD2 ASP F  74     165.252 102.380 -84.839  1.00102.99      FS6
ATOM  39491  C   ASP F  74     168.371 105.583 -86.437  1.00 79.52      FS6
ATOM  39492  O   ASP F  74     169.388 105.320 -87.067  1.00 79.52      FS6
ATOM  39493  N   LEU F  75     167.701 106.721 -86.577  1.00 71.70      FS6
ATOM  39494  CA  LEU F  75     168.141 107.763 -87.493  1.00 71.70      FS6
ATOM  39495  CB  LEU F  75     167.359 109.055 -87.229  1.00 58.10      FS6
ATOM  39496  CG  LEU F  75     167.372 110.188 -88.261  1.00 58.10      FS6
ATOM  39497  CD1 LEU F  75     168.795 110.607 -88.618  1.00 58.10      FS6
ATOM  39498  CD2 LEU F  75     166.642 109.712 -89.493  1.00 58.10      FS6
ATOM  39499  C   LEU F  75     169.619 107.979 -87.199  1.00 71.70      FS6
ATOM  39500  O   LEU F  75     170.456 108.008 -88.108  1.00 71.70      FS6
ATOM  39501  N   ALA F  76     169.926 108.117 -85.912  1.00 49.53      FS6
ATOM  39502  CA  ALA F  76     171.291 108.323 -85.463  1.00 49.53      FS6
ATOM  39503  CB  ALA F  76     171.310 108.607 -83.979  1.00100.75      FS6
ATOM  39504  C   ALA F  76     172.123 107.086 -85.780  1.00 49.53      FS6
ATOM  39505  O   ALA F  76     173.154 107.194 -86.440  1.00 49.53      FS6
ATOM  39506  N   ARG F  77     171.682 105.913 -85.320  1.00 47.68      FS6
ATOM  39507  CA  ARG F  77     172.418 104.673 -85.596  1.00 47.68      FS6
ATOM  39508  CB  ARG F  77     171.502 103.454 -85.498  1.00200.16      FS6
ATOM  39509  CG  ARG F  77     170.994 103.146 -84.108  1.00200.16      FS6
ATOM  39510  CD  ARG F  77     170.319 101.788 -84.094  1.00200.16      FS6
ATOM  39511  NE  ARG F  77     169.813 101.428 -82.773  1.00200.16      FS6
ATOM  39512  CZ  ARG F  77     169.288 100.244 -82.477  1.00200.16      FS6
ATOM  39513  NH1 ARG F  77     169.203  99.303 -83.409  1.00200.16      FS6
ATOM  39514  NH2 ARG F  77     168.845  99.999 -81.251  1.00200.16      FS6
ATOM  39515  C   ARG F  77     172.962 104.764 -87.017  1.00 47.68      FS6
ATOM  39516  O   ARG F  77     174.173 104.885 -87.233  1.00 47.68      FS6
ATOM  39517  N   GLU F  78     172.027 104.734 -87.968  1.00 69.66      FS6
ATOM  39518  CA  GLU F  78     172.291 104.819 -89.399  1.00 69.66      FS6
ATOM  39519  CB  GLU F  78     170.976 105.070 -90.137  1.00102.02      FS6
ATOM  39520  CG  GLU F  78     171.091 105.095 -91.646  1.00102.02      FS6
ATOM  39521  CD  GLU F  78     171.419 103.737 -92.232  1.00102.02      FS6
ATOM  39522  OE1 GLU F  78     170.637 102.789 -92.019  1.00102.02      FS6
ATOM  39523  OE2 GLU F  78     172.457 103.614 -92.912  1.00102.02      FS6
ATOM  39524  C   GLU F  78     173.290 105.922 -89.739  1.00 69.66      FS6
ATOM  39525  O   GLU F  78     174.373 105.647 -90.260  1.00 69.66      FS6
ATOM  39526  N   LEU F  79     172.927 107.167 -89.448  1.00 43.09      FS6
ATOM  39527  CA  LEU F  79     173.807 108.292 -89.738  1.00 43.09      FS6
ATOM  39528  CB  LEU F  79     173.345 109.535 -88.988  1.00 57.57      FS6
ATOM  39529  CG  LEU F  79     172.216 110.333 -89.620  1.00 57.57      FS6
ATOM  39530  CD1 LEU F  79     171.963 111.619 -88.839  1.00 57.57      FS6
ATOM  39531  CD2 LEU F  79     172.613 110.659 -91.041  1.00 57.57      FS6
ATOM  39532  C   LEU F  79     175.274 108.045 -89.394  1.00 43.09      FS6
ATOM  39533  O   LEU F  79     176.168 108.275 -90.205  1.00 43.09      FS6
ATOM  39534  N   ARG F  80     175.519 107.572 -88.183  1.00 91.98      FS6
ATOM  39535  CA  ARG F  80     176.876 107.338 -87.719  1.00 91.98      FS6
ATOM  39536  CB  ARG F  80     176.820 106.814 -86.288  1.00 72.71      FS6
ATOM  39537  CG  ARG F  80     176.112 107.756 -85.327  1.00 72.71      FS6
ATOM  39538  CD  ARG F  80     175.972 107.121 -83.950  1.00 72.71      FS6
ATOM  39539  NE  ARG F  80     175.182 107.937 -83.035  1.00 72.71      FS6
ATOM  39540  CZ  ARG F  80     175.485 109.184 -82.694  1.00 72.71      FS6
ATOM  39541  NH1 ARG F  80     176.564 109.775 -83.192  1.00 72.71      FS6
ATOM  39542  NH2 ARG F  80     174.709 109.838 -81.845  1.00 72.71      FS6
ATOM  39543  C   ARG F  80     177.766 106.427 -88.570  1.00 91.98      FS6
ATOM  39544  O   ARG F  80     178.990 106.603 -88.595  1.00 91.98      FS6
ATOM  39545  N   ILE F  81     177.163 105.469 -89.268  1.00 81.55      FS6
ATOM  39546  CA  ILE F  81     177.922 104.524 -90.089  1.00 81.55      FS6
ATOM  39547  CB  ILE F  81     176.999 103.727 -91.039  1.00 90.13      FS6
ATOM  39548  CG2 ILE F  81     177.810 103.143 -92.194  1.00 90.13      FS6
ATOM  39549  CG1 ILE F  81     176.295 102.612 -90.261  1.00 90.13      FS6
ATOM  39550  CD1 ILE F  81     175.552 101.615 -91.136  1.00 90.13      FS6
ATOM  39551  C   ILE F  81     179.051 105.124 -90.918  1.00 81.55      FS6
ATOM  39552  O   ILE F  81     180.195 104.674 -90.834  1.00 81.55      FS6
ATOM  39553  N   ARG F  82     178.724 106.128 -91.722  1.00 78.04      FS6
ATOM  39554  CA  ARG F  82     179.702 106.789 -92.585  1.00 78.04      FS6
ATOM  39555  CB  ARG F  82     179.103 108.077 -93.164  1.00121.10      FS6
ATOM  39556  CG  ARG F  82     177.932 107.884 -94.128  1.00121.10      FS6
ATOM  39557  CD  ARG F  82     178.399 107.554 -95.543  1.00121.10      FS6
ATOM  39558  NE  ARG F  82     179.027 106.241 -95.649  1.00121.10      FS6
ATOM  39559  CZ  ARG F  82     179.571 105.766 -96.765  1.00121.10      FS6
ATOM  39560  NH1 ARG F  82     179.566 106.496 -97.873  1.00121.10      FS6
ATOM  39561  NH2 ARG F  82     180.115 104.557 -96.773  1.00121.10      FS6
ATOM  39562  C   ARG F  82     181.026 107.119 -91.891  1.00 78.04      FS6
ATOM  39563  O   ARG F  82     181.051 107.563 -90.739  1.00 78.04      FS6
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ATOM  39564  N   ASP F  83     182.122 106.897 -92.610  1.00 94.81       FS6
ATOM  39565  CA  ASP F  83     183.454 107.175 -92.091  1.00 94.81       FS6
ATOM  39566  CB  ASP F  83     184.517 106.460 -92.931  1.00195.35       FS6
ATOM  39567  CG  ASP F  83     184.559 104.965 -92.675  1.00195.35       FS6
ATOM  39568  OD1 ASP F  83     185.333 104.264 -93.362  1.00195.35       FS6
ATOM  39569  OD2 ASP F  83     183.823 104.490 -91.784  1.00195.35       FS6
ATOM  39570  C   ASP F  83     183.714 108.675 -92.108  1.00 94.81       FS6
ATOM  39571  O   ASP F  83     184.439 109.201 -91.260  1.00 94.81       FS6
ATOM  39572  N   ASN F  84     183.119 109.364 -93.076  1.00 74.36       FS6
ATOM  39573  CA  ASN F  84     183.295 110.804 -93.190  1.00 74.36       FS6
ATOM  39574  CB  ASN F  84     182.977 111.264 -94.609  1.00115.61       FS6
ATOM  39575  CG  ASN F  84     183.958 110.716 -95.618  1.00115.61       FS6
ATOM  39576  OD1 ASN F  84     185.163 110.940 -95.507  1.00115.61       FS6
ATOM  39577  ND2 ASN F  84     183.450 109.987 -96.607  1.00115.61       FS6
ATOM  39578  C   ASN F  84     182.421 111.530 -92.186  1.00 74.36       FS6
ATOM  39579  O   ASN F  84     182.652 112.699 -91.888  1.00 74.36       FS6
ATOM  39580  N   VAL F  85     181.411 110.828 -91.677  1.00 81.81       FS6
ATOM  39581  CA  VAL F  85     180.518 111.382 -90.666  1.00 81.81       FS6
ATOM  39582  CB  VAL F  85     179.143 110.686 -90.675  1.00 94.07       FS6
ATOM  39583  CG1 VAL F  85     178.289 111.204 -89.535  1.00 94.07       FS6
ATOM  39584  CG2 VAL F  85     178.444 110.949 -91.992  1.00 94.07       FS6
ATOM  39585  C   VAL F  85     181.229 111.108 -89.347  1.00 81.81       FS6
ATOM  39586  O   VAL F  85     181.352 109.958 -88.904  1.00 81.81       FS6
ATOM  39587  N   ARG F  86     181.707 112.181 -88.732  1.00 73.94       FS6
ATOM  39588  CA  ARG F  86     182.459 112.082 -87.496  1.00 73.94       FS6
ATOM  39589  CB  ARG F  86     183.584 113.106 -87.538  1.00 99.28       FS6
ATOM  39590  CG  ARG F  86     184.470 112.896 -88.756  1.00 99.28       FS6
ATOM  39591  CD  ARG F  86     185.635 113.850 -88.791  1.00 99.28       FS6
ATOM  39592  NE  ARG F  86     186.703 113.347 -89.647  1.00 99.28       FS6
ATOM  39593  CZ  ARG F  86     187.854 113.977 -89.833  1.00 99.28       FS6
ATOM  39594  NH1 ARG F  86     188.077 115.135 -89.225  1.00 99.28       FS6
ATOM  39595  NH2 ARG F  86     188.783 113.445 -90.615  1.00 99.28       FS6
ATOM  39596  C   ARG F  86     181.643 112.220 -86.227  1.00 73.94       FS6
ATOM  39597  O   ARG F  86     181.945 111.565 -85.232  1.00 73.94       FS6
ATOM  39598  N   ARG F  87     180.619 113.070 -86.255  1.00 90.27       FS6
ATOM  39599  CA  ARG F  87     179.752 113.256 -85.095  1.00 90.27       FS6
ATOM  39600  CB  ARG F  87     180.237 114.392 -84.199  1.00 55.55       FS6
ATOM  39601  CG  ARG F  87     181.257 113.969 -83.180  1.00 55.55       FS6
ATOM  39602  CD  ARG F  87     181.085 114.730 -81.878  1.00 55.55       FS6
ATOM  39603  NE  ARG F  87     182.358 114.916 -81.187  1.00 55.55       FS6
ATOM  39604  CZ  ARG F  87     183.249 113.950 -80.971  1.00 55.55       FS6
ATOM  39605  NH1 ARG F  87     183.009 112.707 -81.391  1.00 55.55       FS6
ATOM  39606  NH2 ARG F  87     184.385 114.232 -80.342  1.00 55.55       FS6
ATOM  39607  C   ARG F  87     178.317 113.537 -85.464  1.00 90.27       FS6
ATOM  39608  O   ARG F  87     178.033 114.313 -86.373  1.00 90.27       FS6
ATOM  39609  N   VAL F  88     177.414 112.901 -84.733  1.00 70.50       FS6
ATOM  39610  CA  VAL F  88     175.988 113.079 -84.939  1.00 70.50       FS6
ATOM  39611  CB  VAL F  88     175.338 111.804 -85.512  1.00 92.07       FS6
ATOM  39612  CG1 VAL F  88     173.834 111.983 -85.608  1.00 92.07       FS6
ATOM  39613  CG2 VAL F  88     175.914 111.500 -86.877  1.00 92.07       FS6
ATOM  39614  C   VAL F  88     175.364 113.374 -83.584  1.00 70.50       FS6
ATOM  39615  O   VAL F  88     175.572 112.630 -82.628  1.00 70.50       FS6
ATOM  39616  N   MET F  89     174.626 114.475 -83.497  1.00 67.80       FS6
ATOM  39617  CA  MET F  89     173.958 114.839 -82.259  1.00 67.80       FS6
ATOM  39618  CB  MET F  89     174.757 115.883 -81.471  1.00 85.39       FS6
ATOM  39619  CG  MET F  89     174.046 116.316 -80.183  1.00 85.39       FS6
ATOM  39620  SD  MET F  89     175.065 117.172 -78.943  1.00 85.39       FS6
ATOM  39621  CE  MET F  89     174.753 118.882 -79.343  1.00 85.39       FS6
ATOM  39622  C   MET F  89     172.576 115.381 -82.562  1.00 67.80       FS6
ATOM  39623  O   MET F  89     172.433 116.484 -83.084  1.00 67.80       FS6
ATOM  39624  N   VAL F  90     171.562 114.581 -82.247  1.00 55.99       FS6
ATOM  39625  CA  VAL F  90     170.170 114.960 -82.451  1.00 55.99       FS6
ATOM  39626  CB  VAL F  90     169.313 113.744 -82.785  1.00 64.29       FS6
ATOM  39627  CG1 VAL F  90     167.920 114.185 -83.147  1.00 64.29       FS6
ATOM  39628  CG2 VAL F  90     169.940 112.973 -83.918  1.00 64.29       FS6
ATOM  39629  C   VAL F  90     169.676 115.546 -81.140  1.00 55.99       FS6
ATOM  39630  O   VAL F  90     170.094 115.122 -80.070  1.00 55.99       FS6
ATOM  39631  N   VAL F  91     168.775 116.509 -81.206  1.00 70.94       FS6
ATOM  39632  CA  VAL F  91     168.298 117.118 -79.982  1.00 70.94       FS6
ATOM  39633  CB  VAL F  91     169.132 118.352 -79.666  1.00 35.85       FS6
ATOM  39634  CG1 VAL F  91     168.499 119.133 -78.526  1.00 35.85       FS6
ATOM  39635  CG2 VAL F  91     170.532 117.934 -79.316  1.00 35.85       FS6
ATOM  39636  C   VAL F  91     166.842 117.532 -80.044  1.00 70.94       FS6
ATOM  39637  O   VAL F  91     166.410 118.104 -81.039  1.00 70.94       FS6
ATOM  39638  N   LYS F  92     166.083 117.254 -78.987  1.00 52.10       FS6
ATOM  39639  CA  LYS F  92     164.680 117.655 -78.964  1.00 52.10       FS6
ATOM  39640  CB  LYS F  92     164.008 117.190 -77.678  1.00 96.75       FS6
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ATOM  39641  CG  LYS F  92     162.502 117.109 -77.785  1.00 96.75      FS6
ATOM  39642  CD  LYS F  92     161.881 116.466 -76.553  1.00 96.75      FS6
ATOM  39643  CE  LYS F  92     162.273 115.001 -76.406  1.00 96.75      FS6
ATOM  39644  NZ  LYS F  92     163.713 114.795 -76.089  1.00 96.75      FS6
ATOM  39645  C   LYS F  92     164.755 119.176 -79.023  1.00 52.10      FS6
ATOM  39646  O   LYS F  92     165.618 119.775 -78.382  1.00 52.10      FS6
ATOM  39647  N   SER F  93     163.873 119.799 -79.797  1.00 58.42      FS6
ATOM  39648  CA  SER F  93     163.917 121.247 -79.973  1.00 58.42      FS6
ATOM  39649  CB  SER F  93     163.325 121.598 -81.339  1.00 49.47      FS6
ATOM  39650  OG  SER F  93     163.786 120.697 -82.338  1.00 49.47      FS6
ATOM  39651  C   SER F  93     163.217 122.048 -78.885  1.00 58.42      FS6
ATOM  39652  O   SER F  93     162.009 121.959 -78.737  1.00 58.42      FS6
ATOM  39653  N   GLN F  94     163.973 122.845 -78.135  1.00 78.86      FS6
ATOM  39654  CA  GLN F  94     163.388 123.659 -77.067  1.00 78.86      FS6
ATOM  39655  CB  GLN F  94     164.244 123.583 -75.794  1.00135.35      FS6
ATOM  39656  CG  GLN F  94     164.667 122.187 -75.349  1.00135.35      FS6
ATOM  39657  CD  GLN F  94     165.966 121.722 -75.993  1.00135.35      FS6
ATOM  39658  OE1 GLN F  94     166.487 120.656 -75.662  1.00135.35      FS6
ATOM  39659  NE2 GLN F  94     166.494 122.519 -76.918  1.00135.35      FS6
ATOM  39660  C   GLN F  94     163.262 125.133 -77.480  1.00 78.86      FS6
ATOM  39661  O   GLN F  94     164.025 125.618 -78.320  1.00 78.86      FS6
ATOM  39662  N   GLU F  95     162.298 125.844 -76.894  1.00 52.55      FS6
ATOM  39663  CA  GLU F  95     162.121 127.261 -77.195  1.00 52.55      FS6
ATOM  39664  CB  GLU F  95     160.866 127.816 -76.518  1.00200.96      FS6
ATOM  39665  CG  GLU F  95     159.584 127.107 -76.901  1.00200.96      FS6
ATOM  39666  CD  GLU F  95     159.582 125.655 -76.474  1.00200.96      FS6
ATOM  39667  OE1 GLU F  95     159.755 125.392 -75.264  1.00200.96      FS6
ATOM  39668  OE2 GLU F  95     159.410 124.780 -77.347  1.00200.96      FS6
ATOM  39669  C   GLU F  95     163.356 127.932 -76.612  1.00 52.55      FS6
ATOM  39670  O   GLU F  95     164.080 127.323 -75.833  1.00 52.55      FS6
ATOM  39671  N   PRO F  96     163.631 129.185 -76.990  1.00 51.03      FS6
ATOM  39672  CD  PRO F  96     163.021 130.018 -78.040  1.00 86.11      FS6
ATOM  39673  CA  PRO F  96     164.816 129.837 -76.434  1.00 51.03      FS6
ATOM  39674  CB  PRO F  96     165.042 130.995 -77.393  1.00 86.11      FS6
ATOM  39675  CG  PRO F  96     163.651 131.365 -77.776  1.00 86.11      FS6
ATOM  39676  C   PRO F  96     164.583 130.307 -75.008  1.00 51.03      FS6
ATOM  39677  O   PRO F  96     163.445 130.470 -74.584  1.00 51.03      FS6
ATOM  39678  N   PHE F  97     165.663 130.511 -74.266  1.00 58.09      FS6
ATOM  39679  CA  PHE F  97     165.560 130.986 -72.898  1.00 58.09      FS6
ATOM  39680  CB  PHE F  97     166.005 129.905 -71.916  1.00 77.20      FS6
ATOM  39681  CG  PHE F  97     165.732 130.251 -70.481  1.00 77.20      FS6
ATOM  39682  CD1 PHE F  97     164.439 130.191 -69.973  1.00 77.20      FS6
ATOM  39683  CD2 PHE F  97     166.759 130.671 -69.642  1.00 77.20      FS6
ATOM  39684  CE1 PHE F  97     164.171 130.546 -68.645  1.00 77.20      FS6
ATOM  39685  CE2 PHE F  97     166.503 131.029 -68.314  1.00 77.20      FS6
ATOM  39686  CZ  PHE F  97     165.206 130.966 -67.817  1.00 77.20      FS6
ATOM  39687  C   PHE F  97     166.444 132.223 -72.742  1.00 58.09      FS6
ATOM  39688  O   PHE F  97     167.303 132.281 -71.861  1.00 58.09      FS6
ATOM  39689  N   LEU F  98     166.232 133.213 -73.607  1.00 75.73      FS6
ATOM  39690  CA  LEU F  98     167.016 134.447 -73.566  1.00 75.73      FS6
ATOM  39691  CB  LEU F  98     166.272 135.587 -74.270  1.00156.09      FS6
ATOM  39692  CG  LEU F  98     166.427 135.693 -75.789  1.00156.09      FS6
ATOM  39693  CD1 LEU F  98     165.573 136.837 -76.311  1.00156.09      FS6
ATOM  39694  CD2 LEU F  98     167.889 135.926 -76.138  1.00156.09      FS6
ATOM  39695  C   LEU F  98     167.343 134.869 -72.148  1.00 75.73      FS6
ATOM  39696  O   LEU F  98     166.544 134.695 -71.238  1.00 75.73      FS6
ATOM  39697  N   ALA F  99     168.535 135.416 -71.966  1.00 94.43      FS6
ATOM  39698  CA  ALA F  99     168.971 135.875 -70.660  1.00 94.43      FS6
ATOM  39699  CB  ALA F  99     170.037 134.952 -70.113  1.00121.02      FS6
ATOM  39700  C   ALA F  99     169.532 137.273 -70.827  1.00 94.43      FS6
ATOM  39701  O   ALA F  99     170.024 137.624 -71.903  1.00 94.43      FS6
ATOM  39702  N   ASN F 100     169.457 138.073 -69.769  1.00151.89      FS6
ATOM  39703  CA  ASN F 100     169.975 139.430 -69.831  1.00151.89      FS6
ATOM  39704  CB  ASN F 100     171.496 139.378 -70.021  1.00155.60      FS6
ATOM  39705  CG  ASN F 100     172.147 140.740 -69.937  1.00155.60      FS6
ATOM  39706  OD1 ASN F 100     171.899 141.613 -70.768  1.00155.60      FS6
ATOM  39707  ND2 ASN F 100     172.990 140.930 -68.930  1.00155.60      FS6
ATOM  39708  C   ASN F 100     169.301 140.140 -71.008  1.00151.89      FS6
ATOM  39709  O   ASN F 100     169.962 140.612 -71.932  1.00151.89      FS6
ATOM  39710  N   ALA F 101     167.972 140.192 -70.968  1.00175.91      FS6
ATOM  39711  CA  ALA F 101     167.190 140.832 -72.020  1.00175.91      FS6
ATOM  39712  CB  ALA F 101     166.979 139.867 -73.173  1.00147.65      FS6
ATOM  39713  C   ALA F 101     165.843 141.292 -71.479  1.00175.91      FS6
ATOM  39714  O   ALA F 101     165.615 141.137 -70.260  1.00175.91      FS6
ATOM  39715  OXT ALA F 101     165.032 141.800 -72.282  1.00147.65      FS6
TER   39715       ALA F 101                                             FS6
ATOM  39716  CB  ALA G   2     215.973 137.281 -23.625  1.00 91.80      GS7
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ATOM  39717  C   ALA G   2     213.580 136.695 -23.266  1.00 43.92      GS7
ATOM  39718  O   ALA G   2     213.495 136.716 -24.487  1.00 43.92      GS7
ATOM  39719  N   ALA G   2     215.365 135.813 -21.728  1.00 43.92      GS7
ATOM  39720  CA  ALA G   2     214.913 136.958 -22.578  1.00 43.92      GS7
ATOM  39721  N   ARG G   3     212.533 136.472 -22.483  1.00 52.86      GS7
ATOM  39722  CA  ARG G   3     211.226 136.199 -23.052  1.00 52.86      GS7
ATOM  39723  CB  ARG G   3     210.470 135.211 -22.160  1.00 29.37      GS7
ATOM  39724  CG  ARG G   3     209.284 134.508 -22.823  1.00 29.37      GS7
ATOM  39725  CD  ARG G   3     208.429 133.771 -21.781  1.00 29.37      GS7
ATOM  39726  NE  ARG G   3     208.852 132.410 -21.433  1.00 29.37      GS7
ATOM  39727  CZ  ARG G   3     208.957 131.420 -22.311  1.00 29.37      GS7
ATOM  39728  NH1 ARG G   3     208.688 131.659 -23.595  1.00 29.37      GS7
ATOM  39729  NH2 ARG G   3     209.268 130.194 -21.896  1.00 29.37      GS7
ATOM  39730  C   ARG G   3     210.418 137.475 -23.203  1.00 52.86      GS7
ATOM  39731  O   ARG G   3     209.634 137.600 -24.140  1.00 52.86      GS7
ATOM  39732  N   ARG G   4     210.613 138.425 -22.288  1.00 78.20      GS7
ATOM  39733  CA  ARG G   4     209.866 139.687 -22.322  1.00 78.20      GS7
ATOM  39734  CB  ARG G   4     209.852 140.343 -20.940  1.00 99.65      GS7
ATOM  39735  CG  ARG G   4     208.797 139.781 -20.002  1.00 99.65      GS7
ATOM  39736  CD  ARG G   4     208.793 140.512 -18.665  1.00 99.65      GS7
ATOM  39737  NE  ARG G   4     207.795 139.974 -17.743  1.00 99.65      GS7
ATOM  39738  CZ  ARG G   4     206.487 140.198 -17.834  1.00 99.65      GS7
ATOM  39739  NH1 ARG G   4     205.997 140.960 -18.808  1.00 99.65      GS7
ATOM  39740  NH2 ARG G   4     205.664 139.652 -16.948  1.00 99.65      GS7
ATOM  39741  C   ARG G   4     210.325 140.712 -23.344  1.00 78.20      GS7
ATOM  39742  O   ARG G   4     209.590 141.022 -24.281  1.00 78.20      GS7
ATOM  39743  N   ARG G   5     211.529 141.246 -23.160  1.00157.36      GS7
ATOM  39744  CA  ARG G   5     212.060 142.251 -24.075  1.00157.36      GS7
ATOM  39745  CB  ARG G   5     212.602 143.456 -23.303  1.00168.43      GS7
ATOM  39746  CG  ARG G   5     211.569 144.191 -22.472  1.00168.43      GS7
ATOM  39747  CD  ARG G   5     212.160 145.457 -21.874  1.00168.43      GS7
ATOM  39748  NE  ARG G   5     211.274 146.083 -20.896  1.00168.43      GS7
ATOM  39749  CZ  ARG G   5     210.948 145.546 -19.723  1.00168.43      GS7
ATOM  39750  NH1 ARG G   5     211.432 144.361 -19.370  1.00168.43      GS7
ATOM  39751  NH2 ARG G   5     210.142 146.198 -18.895  1.00168.43      GS7
ATOM  39752  C   ARG G   5     213.158 141.730 -24.987  1.00157.36      GS7
ATOM  39753  O   ARG G   5     213.567 140.572 -24.906  1.00157.36      GS7
ATOM  39754  N   ARG G   6     213.628 142.621 -25.853  1.00106.07      GS7
ATOM  39755  CA  ARG G   6     214.680 142.328 -26.817  1.00106.07      GS7
ATOM  39756  CB  ARG G   6     214.398 143.098 -28.106  1.00145.33      GS7
ATOM  39757  CG  ARG G   6     215.294 142.782 -29.283  1.00145.33      GS7
ATOM  39758  CD  ARG G   6     215.190 143.914 -30.307  1.00145.33      GS7
ATOM  39759  NE  ARG G   6     215.737 143.567 -31.617  1.00145.33      GS7
ATOM  39760  CZ  ARG G   6     215.080 142.877 -32.542  1.00145.33      GS7
ATOM  39761  NH1 ARG G   6     213.844 142.457 -32.305  1.00145.33      GS7
ATOM  39762  NH2 ARG G   6     215.658 142.607 -33.706  1.00145.33      GS7
ATOM  39763  C   ARG G   6     215.994 142.799 -26.209  1.00106.07      GS7
ATOM  39764  O   ARG G   6     216.486 143.872 -26.554  1.00106.07      GS7
ATOM  39765  N   ALA G   7     216.544 141.997 -25.297  1.00136.55      GS7
ATOM  39766  CA  ALA G   7     217.798 142.314 -24.609  1.00136.55      GS7
ATOM  39767  CB  ALA G   7     218.611 141.040 -24.384  1.00107.93      GS7
ATOM  39768  C   ALA G   7     218.635 143.344 -25.360  1.00136.55      GS7
ATOM  39769  O   ALA G   7     218.886 143.206 -26.557  1.00136.55      GS7
ATOM  39770  N   GLU G   8     219.066 144.376 -24.645  1.00 75.90      GS7
ATOM  39771  CA  GLU G   8     219.857 145.440 -25.243  1.00 75.90      GS7
ATOM  39772  CB  GLU G   8     219.610 146.765 -24.509  1.00178.48      GS7
ATOM  39773  CG  GLU G   8     219.214 146.637 -23.041  1.00178.48      GS7
ATOM  39774  CD  GLU G   8     220.219 145.864 -22.210  1.00178.48      GS7
ATOM  39775  OE1 GLU G   8     220.369 144.644 -22.432  1.00178.48      GS7
ATOM  39776  OE2 GLU G   8     220.859 146.477 -21.330  1.00178.48      GS7
ATOM  39777  C   GLU G   8     221.352 145.159 -25.303  1.00 75.90      GS7
ATOM  39778  O   GLU G   8     221.949 144.677 -24.340  1.00 75.90      GS7
ATOM  39779  N   VAL G   9     221.945 145.471 -26.453  1.00 93.36      GS7
ATOM  39780  CA  VAL G   9     223.373 145.275 -26.673  1.00 93.36      GS7
ATOM  39781  CB  VAL G   9     223.783 145.683 -28.105  1.00168.14      GS7
ATOM  39782  CG1 VAL G   9     225.276 145.471 -28.301  1.00168.14      GS7
ATOM  39783  CG2 VAL G   9     222.993 144.879 -29.122  1.00168.14      GS7
ATOM  39784  C   VAL G   9     224.137 146.144 -25.691  1.00 93.36      GS7
ATOM  39785  O   VAL G   9     224.284 147.347 -25.899  1.00 93.36      GS7
ATOM  39786  N   ARG G  10     224.617 145.531 -24.618  1.00 93.28      GS7
ATOM  39787  CA  ARG G  10     225.363 146.261 -23.609  1.00 93.28      GS7
ATOM  39788  CB  ARG G  10     225.947 145.279 -22.593  1.00 64.05      GS7
ATOM  39789  CG  ARG G  10     226.416 145.917 -21.306  1.00 64.05      GS7
ATOM  39790  CD  ARG G  10     227.050 144.882 -20.386  1.00 64.05      GS7
ATOM  39791  NE  ARG G  10     226.086 143.953 -19.805  1.00 64.05      GS7
ATOM  39792  CZ  ARG G  10     225.666 144.012 -18.545  1.00 64.05      GS7
ATOM  39793  NH1 ARG G  10     226.126 144.955 -17.734  1.00 64.05      GS7
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ATOM  39794  NH2 ARG G  10     224.790 143.125 -18.090  1.00 64.05      GS7
ATOM  39795  C   ARG G  10     226.480 147.052 -24.288  1.00 93.28      GS7
ATOM  39796  O   ARG G  10     227.144 146.546 -25.191  1.00 93.28      GS7
ATOM  39797  N   GLN G  11     226.669 148.299 -23.866  1.00104.28      GS7
ATOM  39798  CA  GLN G  11     227.709 149.155 -24.429  1.00104.28      GS7
ATOM  39799  CB  GLN G  11     227.207 150.592 -24.549  1.00109.96      GS7
ATOM  39800  CG  GLN G  11     227.011 151.090 -25.967  1.00109.96      GS7
ATOM  39801  CD  GLN G  11     226.011 150.264 -26.740  1.00109.96      GS7
ATOM  39802  OE1 GLN G  11     224.947 149.920 -26.227  1.00109.96      GS7
ATOM  39803  NE2 GLN G  11     226.341 149.950 -27.989  1.00109.96      GS7
ATOM  39804  C   GLN G  11     228.945 149.131 -23.535  1.00104.28      GS7
ATOM  39805  O   GLN G  11     228.834 149.106 -22.305  1.00104.28      GS7
ATOM  39806  N   LEU G  12     230.121 149.142 -24.155  1.00 94.82      GS7
ATOM  39807  CA  LEU G  12     231.375 149.117 -23.412  1.00 94.82      GS7
ATOM  39808  CB  LEU G  12     232.247 147.960 -23.914  1.00 75.83      GS7
ATOM  39809  CG  LEU G  12     231.993 146.586 -23.276  1.00 75.83      GS7
ATOM  39810  CD1 LEU G  12     230.510 146.341 -23.144  1.00 75.83      GS7
ATOM  39811  CD2 LEU G  12     232.640 145.494 -24.112  1.00 75.83      GS7
ATOM  39812  C   LEU G  12     232.125 150.444 -23.519  1.00 94.82      GS7
ATOM  39813  O   LEU G  12     231.868 151.235 -24.426  1.00 94.82      GS7
ATOM  39814  N   GLN G  13     233.045 150.683 -22.587  1.00 77.62      GS7
ATOM  39815  CA  GLN G  13     233.824 151.921 -22.560  1.00 77.62      GS7
ATOM  39816  CB  GLN G  13     234.480 152.093 -21.185  1.00136.57      GS7
ATOM  39817  CG  GLN G  13     233.502 152.401 -20.054  1.00136.57      GS7
ATOM  39818  CD  GLN G  13     232.800 153.740 -20.231  1.00136.57      GS7
ATOM  39819  OE1 GLN G  13     233.444 154.784 -20.324  1.00136.57      GS7
ATOM  39820  NE2 GLN G  13     231.473 153.714 -20.275  1.00136.57      GS7
ATOM  39821  C   GLN G  13     234.898 151.996 -23.646  1.00 77.62      GS7
ATOM  39822  O   GLN G  13     235.394 150.976 -24.111  1.00 77.62      GS7
ATOM  39823  N   PRO G  14     235.273 153.218 -24.063  1.00 77.74      GS7
ATOM  39824  CD  PRO G  14     234.905 154.528 -23.497  1.00193.05      GS7
ATOM  39825  CA  PRO G  14     236.300 153.373 -25.096  1.00 77.74      GS7
ATOM  39826  CB  PRO G  14     236.332 154.880 -25.317  1.00193.05      GS7
ATOM  39827  CG  PRO G  14     236.057 155.408 -23.944  1.00193.05      GS7
ATOM  39828  C   PRO G  14     237.627 152.837 -24.567  1.00 77.74      GS7
ATOM  39829  O   PRO G  14     237.822 152.745 -23.351  1.00 77.74      GS7
ATOM  39830  N   ASP G  15     238.534 152.482 -25.471  1.00140.19      GS7
ATOM  39831  CA  ASP G  15     239.830 151.957 -25.067  1.00140.19      GS7
ATOM  39832  CB  ASP G  15     240.609 151.453 -26.275  1.00127.52      GS7
ATOM  39833  CG  ASP G  15     241.954 150.890 -25.892  1.00127.52      GS7
ATOM  39834  OD1 ASP G  15     242.779 150.638 -26.793  1.00127.52      GS7
ATOM  39835  OD2 ASP G  15     242.182 150.694 -24.681  1.00127.52      GS7
ATOM  39836  C   ASP G  15     240.656 153.018 -24.355  1.00140.19      GS7
ATOM  39837  O   ASP G  15     240.778 154.145 -24.832  1.00140.19      GS7
ATOM  39838  N   LEU G  16     241.232 152.649 -23.217  1.00 86.38      GS7
ATOM  39839  CA  LEU G  16     242.046 153.575 -22.440  1.00 86.38      GS7
ATOM  39840  CB  LEU G  16     242.486 152.929 -21.124  1.00147.68      GS7
ATOM  39841  CG  LEU G  16     241.435 152.182 -20.303  1.00147.68      GS7
ATOM  39842  CD1 LEU G  16     240.209 153.067 -20.137  1.00147.68      GS7
ATOM  39843  CD2 LEU G  16     241.066 150.871 -20.991  1.00147.68      GS7
ATOM  39844  C   LEU G  16     243.287 153.972 -23.224  1.00 86.38      GS7
ATOM  39845  O   LEU G  16     243.987 154.911 -22.852  1.00 86.38      GS7
ATOM  39846  N   VAL G  17     243.553 153.256 -24.312  1.00 82.44      GS7
ATOM  39847  CA  VAL G  17     244.733 153.519 -25.122  1.00 82.44      GS7
ATOM  39848  CB  VAL G  17     245.698 152.323 -25.071  1.00 48.24      GS7
ATOM  39849  CG1 VAL G  17     246.891 152.578 -25.983  1.00 48.24      GS7
ATOM  39850  CG2 VAL G  17     246.168 152.096 -23.628  1.00 48.24      GS7
ATOM  39851  C   VAL G  17     244.471 153.869 -26.582  1.00 82.44      GS7
ATOM  39852  O   VAL G  17     245.075 154.804 -27.103  1.00 82.44      GS7
ATOM  39853  N   TYR G  18     243.599 153.121 -27.251  1.00 61.76      GS7
ATOM  39854  CA  TYR G  18     243.289 153.403 -28.652  1.00 61.76      GS7
ATOM  39855  CB  TYR G  18     243.353 152.126 -29.491  1.00 76.55      GS7
ATOM  39856  CG  TYR G  18     244.734 151.527 -29.598  1.00 76.55      GS7
ATOM  39857  CD1 TYR G  18     245.441 151.157 -28.458  1.00 76.55      GS7
ATOM  39858  CE1 TYR G  18     246.705 150.587 -28.546  1.00 76.55      GS7
ATOM  39859  CD2 TYR G  18     245.330 151.314 -30.841  1.00 76.55      GS7
ATOM  39860  CE2 TYR G  18     246.597 150.743 -30.943  1.00 76.55      GS7
ATOM  39861  CZ  TYR G  18     247.277 150.383 -29.789  1.00 76.55      GS7
ATOM  39862  OH  TYR G  18     248.528 149.820 -29.863  1.00 76.55      GS7
ATOM  39863  C   TYR G  18     241.898 154.015 -28.760  1.00 61.76      GS7
ATOM  39864  O   TYR G  18     241.517 154.552 -29.803  1.00 61.76      GS7
ATOM  39865  N   GLY G  19     241.139 153.926 -27.673  1.00102.31      GS7
ATOM  39866  CA  GLY G  19     239.801 154.484 -27.666  1.00102.31      GS7
ATOM  39867  C   GLY G  19     238.764 153.573 -28.288  1.00102.31      GS7
ATOM  39868  O   GLY G  19     237.579 153.657 -27.965  1.00102.31      GS7
ATOM  39869  N   ASP G  20     239.203 152.704 -29.191  1.00118.05      GS7
ATOM  39870  CA  ASP G  20     238.288 151.778 -29.837  1.00118.05      GS7
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ATOM  39871  CB  ASP G  20     239.013 150.967 -30.907  1.00108.62      GS7
ATOM  39872  CG  ASP G  20     238.235 149.745 -31.328  1.00108.62      GS7
ATOM  39873  OD1 ASP G  20     238.280 148.737 -30.595  1.00108.62      GS7
ATOM  39874  OD2 ASP G  20     237.568 149.795 -32.381  1.00108.62      GS7
ATOM  39875  C   ASP G  20     237.673 150.842 -28.809  1.00118.05      GS7
ATOM  39876  O   ASP G  20     238.301 150.490 -27.811  1.00118.05      GS7
ATOM  39877  N   VAL G  21     236.439 150.438 -29.067  1.00109.49      GS7
ATOM  39878  CA  VAL G  21     235.719 149.556 -28.166  1.00109.49      GS7
ATOM  39879  CB  VAL G  21     234.222 149.812 -28.284  1.00 66.61      GS7
ATOM  39880  CG1 VAL G  21     233.937 151.283 -28.030  1.00 66.61      GS7
ATOM  39881  CG2 VAL G  21     233.745 149.424 -29.668  1.00 66.61      GS7
ATOM  39882  C   VAL G  21     236.004 148.081 -28.441  1.00109.49      GS7
ATOM  39883  O   VAL G  21     236.124 147.280 -27.510  1.00109.49      GS7
ATOM  39884  N   LEU G  22     236.102 147.725 -29.720  1.00 72.87      GS7
ATOM  39885  CA  LEU G  22     236.384 146.350 -30.110  1.00 72.87      GS7
ATOM  39886  CB  LEU G  22     236.787 146.289 -31.583  1.00 95.54      GS7
ATOM  39887  CG  LEU G  22     237.122 144.886 -32.097  1.00 95.54      GS7
ATOM  39888  CD1 LEU G  22     235.868 144.027 -32.079  1.00 95.54      GS7
ATOM  39889  CD2 LEU G  22     237.690 144.968 -33.501  1.00 95.54      GS7
ATOM  39890  C   LEU G  22     237.534 145.853 -29.247  1.00 72.87      GS7
ATOM  39891  O   LEU G  22     237.533 144.726 -28.751  1.00 72.87      GS7
ATOM  39892  N   VAL G  23     238.523 146.717 -29.081  1.00 51.29      GS7
ATOM  39893  CA  VAL G  23     239.682 146.409 -28.269  1.00 51.29      GS7
ATOM  39894  CB  VAL G  23     240.600 147.643 -28.164  1.00 32.14      GS7
ATOM  39895  CG1 VAL G  23     241.651 147.438 -27.072  1.00 32.14      GS7
ATOM  39896  CG2 VAL G  23     241.252 147.899 -29.515  1.00 32.14      GS7
ATOM  39897  C   VAL G  23     239.230 145.981 -26.879  1.00 51.29      GS7
ATOM  39898  O   VAL G  23     239.527 144.869 -26.438  1.00 51.29      GS7
ATOM  39899  N   THR G  24     238.511 146.865 -26.195  1.00 60.33      GS7
ATOM  39900  CA  THR G  24     238.023 146.564 -24.856  1.00 60.33      GS7
ATOM  39901  CB  THR G  24     236.941 147.553 -24.419  1.00 62.40      GS7
ATOM  39902  OG1 THR G  24     237.480 148.881 -24.434  1.00 62.40      GS7
ATOM  39903  CG2 THR G  24     236.459 147.223 -23.016  1.00 62.40      GS7
ATOM  39904  C   THR G  24     237.423 145.174 -24.882  1.00 60.33      GS7
ATOM  39905  O   THR G  24     237.829 144.286 -24.125  1.00 60.33      GS7
ATOM  39906  N   ALA G  25     236.455 145.003 -25.774  1.00 64.07      GS7
ATOM  39907  CA  ALA G  25     235.784 143.730 -25.964  1.00 64.07      GS7
ATOM  39908  CB  ALA G  25     234.999 143.766 -27.245  1.00 19.23      GS7
ATOM  39909  C   ALA G  25     236.804 142.603 -26.026  1.00 64.07      GS7
ATOM  39910  O   ALA G  25     236.754 141.664 -25.225  1.00 64.07      GS7
ATOM  39911  N   PHE G  26     237.728 142.706 -26.983  1.00 57.32      GS7
ATOM  39912  CA  PHE G  26     238.772 141.700 -27.169  1.00 57.32      GS7
ATOM  39913  CB  PHE G  26     239.717 142.109 -28.301  1.00 72.46      GS7
ATOM  39914  CG  PHE G  26     240.789 141.088 -28.607  1.00 72.46      GS7
ATOM  39915  CD1 PHE G  26     240.457 139.833 -29.097  1.00 72.46      GS7
ATOM  39916  CD2 PHE G  26     242.132 141.395 -28.428  1.00 72.46      GS7
ATOM  39917  CE1 PHE G  26     241.446 138.906 -29.406  1.00 72.46      GS7
ATOM  39918  CE2 PHE G  26     243.123 140.474 -28.736  1.00 72.46      GS7
ATOM  39919  CZ  PHE G  26     242.780 139.230 -29.225  1.00 72.46      GS7
ATOM  39920  C   PHE G  26     239.562 141.518 -25.883  1.00 57.32      GS7
ATOM  39921  O   PHE G  26     240.087 140.435 -25.611  1.00 57.32      GS7
ATOM  39922  N   ILE G  27     239.640 142.579 -25.088  1.00 57.61      GS7
ATOM  39923  CA  ILE G  27     240.367 142.499 -23.839  1.00 57.61      GS7
ATOM  39924  CB  ILE G  27     240.634 143.888 -23.242  1.00 59.58      GS7
ATOM  39925  CG2 ILE G  27     241.469 143.750 -21.967  1.00 59.58      GS7
ATOM  39926  CG1 ILE G  27     241.377 144.748 -24.274  1.00 59.58      GS7
ATOM  39927  CD1 ILE G  27     242.017 146.002 -23.710  1.00 59.58      GS7
ATOM  39928  C   ILE G  27     239.569 141.672 -22.860  1.00 57.61      GS7
ATOM  39929  O   ILE G  27     240.114 140.787 -22.202  1.00 57.61      GS7
ATOM  39930  N   ASN G  28     238.272 141.945 -22.779  1.00 66.13      GS7
ATOM  39931  CA  ASN G  28     237.409 141.205 -21.868  1.00 66.13      GS7
ATOM  39932  CB  ASN G  28     235.970 141.678 -21.982  1.00 69.59      GS7
ATOM  39933  CG  ASN G  28     235.813 143.109 -21.580  1.00 69.59      GS7
ATOM  39934  OD1 ASN G  28     236.296 143.517 -20.528  1.00 69.59      GS7
ATOM  39935  ND2 ASN G  28     235.136 143.890 -22.411  1.00 69.59      GS7
ATOM  39936  C   ASN G  28     237.465 139.723 -22.151  1.00 66.13      GS7
ATOM  39937  O   ASN G  28     237.511 138.911 -21.224  1.00 66.13      GS7
ATOM  39938  N   LYS G  29     237.462 139.367 -23.433  1.00 62.64      GS7
ATOM  39939  CA  LYS G  29     237.513 137.963 -23.804  1.00 62.64      GS7
ATOM  39940  CB  LYS G  29     237.370 137.809 -25.315  1.00 78.30      GS7
ATOM  39941  CG  LYS G  29     235.914 137.784 -25.765  1.00 78.30      GS7
ATOM  39942  CD  LYS G  29     235.150 136.661 -25.050  1.00 78.30      GS7
ATOM  39943  CE  LYS G  29     233.724 136.495 -25.568  1.00 78.30      GS7
ATOM  39944  NZ  LYS G  29     233.012 135.360 -24.894  1.00 78.30      GS7
ATOM  39945  C   LYS G  29     238.781 137.290 -23.297  1.00 62.64      GS7
ATOM  39946  O   LYS G  29     238.773 136.098 -23.001  1.00 62.64      GS7
ATOM  39947  N   ILE G  30     239.862 138.058 -23.182  1.00 33.40      GS7
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ATOM  39948  CA  ILE G  30     241.122 137.529 -22.668  1.00 33.40      GS7
ATOM  39949  CB  ILE G  30     242.326 138.490 -22.958  1.00 58.14      GS7
ATOM  39950  CG2 ILE G  30     243.601 137.942 -22.330  1.00 58.14      GS7
ATOM  39951  CG1 ILE G  30     242.542 138.650 -24.464  1.00 58.14      GS7
ATOM  39952  CD1 ILE G  30     243.727 139.524 -24.824  1.00 58.14      GS7
ATOM  39953  C   ILE G  30     240.991 137.384 -21.149  1.00 33.40      GS7
ATOM  39954  O   ILE G  30     241.357 136.355 -20.569  1.00 33.40      GS7
ATOM  39955  N   MET G  31     240.459 138.421 -20.510  1.00 52.68      GS7
ATOM  39956  CA  MET G  31     240.305 138.411 -19.063  1.00 52.68      GS7
ATOM  39957  CB  MET G  31     239.561 139.648 -18.583  1.00 81.13      GS7
ATOM  39958  CG  MET G  31     239.012 139.457 -17.177  1.00 81.13      GS7
ATOM  39959  SD  MET G  31     238.191 140.895 -16.519  1.00 81.13      GS7
ATOM  39960  CE  MET G  31     237.258 141.468 -17.977  1.00 81.13      GS7
ATOM  39961  C   MET G  31     239.591 137.203 -18.493  1.00 52.68      GS7
ATOM  39962  O   MET G  31     238.504 136.858 -18.932  1.00 52.68      GS7
ATOM  39963  N   ARG G  32     240.205 136.575 -17.499  1.00 42.31      GS7
ATOM  39964  CA  ARG G  32     239.612 135.426 -16.824  1.00 42.31      GS7
ATOM  39965  CB  ARG G  32     240.376 134.138 -17.150  1.00 82.89      GS7
ATOM  39966  CG  ARG G  32     241.849 134.139 -16.766  1.00 82.89      GS7
ATOM  39967  CD  ARG G  32     242.561 132.887 -17.300  1.00 82.89      GS7
ATOM  39968  NE  ARG G  32     242.383 132.721 -18.746  1.00 82.89      GS7
ATOM  39969  CZ  ARG G  32     242.995 131.801 -19.490  1.00 82.89      GS7
ATOM  39970  NH1 ARG G  32     243.843 130.943 -18.941  1.00 82.89      GS7
ATOM  39971  NH2 ARG G  32     242.752 131.739 -20.792  1.00 82.89      GS7
ATOM  39972  C   ARG G  32     239.705 135.754 -15.342  1.00 42.31      GS7
ATOM  39973  O   ARG G  32     240.541 136.552 -14.952  1.00 42.31      GS7
ATOM  39974  N   ASP G  33     238.841 135.165 -14.525  1.00 52.38      GS7
ATOM  39975  CA  ASP G  33     238.847 135.431 -13.093  1.00 52.38      GS7
ATOM  39976  CB  ASP G  33     240.163 134.959 -12.475  1.00115.93      GS7
ATOM  39977  CG  ASP G  33     240.148 133.488 -12.128  1.00115.93      GS7
ATOM  39978  OD1 ASP G  33     239.567 132.701 -12.900  1.00115.93      GS7
ATOM  39979  OD2 ASP G  33     240.728 133.117 -11.085  1.00115.93      GS7
ATOM  39980  C   ASP G  33     238.658 136.922 -12.818  1.00 52.38      GS7
ATOM  39981  O   ASP G  33     238.986 137.406 -11.731  1.00 52.38      GS7
ATOM  39982  N   GLY G  34     238.129 137.651 -13.799  1.00 53.49      GS7
ATOM  39983  CA  GLY G  34     237.925 139.076 -13.612  1.00 53.49      GS7
ATOM  39984  C   GLY G  34     239.188 139.781 -13.143  1.00 53.49      GS7
ATOM  39985  O   GLY G  34     239.264 140.264 -12.008  1.00 53.49      GS7
ATOM  39986  N   LYS G  35     240.191 139.822 -14.016  1.00 70.12      GS7
ATOM  39987  CA  LYS G  35     241.468 140.476 -13.725  1.00 70.12      GS7
ATOM  39988  CB  LYS G  35     242.576 139.443 -13.525  1.00 37.29      GS7
ATOM  39989  CG  LYS G  35     242.202 138.386 -12.520  1.00 37.29      GS7
ATOM  39990  CD  LYS G  35     243.259 137.336 -12.359  1.00 37.29      GS7
ATOM  39991  CE  LYS G  35     244.336 137.807 -11.438  1.00 37.29      GS7
ATOM  39992  NZ  LYS G  35     245.062 136.627 -10.894  1.00 37.29      GS7
ATOM  39993  C   LYS G  35     241.768 141.314 -14.944  1.00 70.12      GS7
ATOM  39994  O   LYS G  35     242.634 140.973 -15.755  1.00 70.12      GS7
ATOM  39995  N   LYS G  36     241.027 142.411 -15.064  1.00 58.61      GS7
ATOM  39996  CA  LYS G  36     241.150 143.312 -16.195  1.00 58.61      GS7
ATOM  39997  CB  LYS G  36     240.206 144.497 -16.008  1.00 81.54      GS7
ATOM  39998  CG  LYS G  36     239.539 144.970 -17.286  1.00 81.54      GS7
ATOM  39999  CD  LYS G  36     238.385 145.921 -16.979  1.00 81.54      GS7
ATOM  40000  CE  LYS G  36     237.732 146.441 -18.253  1.00 81.54      GS7
ATOM  40001  NZ  LYS G  36     237.235 145.341 -19.121  1.00 81.54      GS7
ATOM  40002  C   LYS G  36     242.570 143.803 -16.427  1.00 58.61      GS7
ATOM  40003  O   LYS G  36     242.982 143.988 -17.571  1.00 58.61      GS7
ATOM  40004  N   ASN G  37     243.333 143.998 -15.354  1.00 57.10      GS7
ATOM  40005  CA  ASN G  37     244.700 144.483 -15.507  1.00 57.10      GS7
ATOM  40006  CB  ASN G  37     245.373 144.654 -14.151  1.00 71.03      GS7
ATOM  40007  CG  ASN G  37     246.060 146.008 -14.009  1.00 71.03      GS7
ATOM  40008  OD1 ASN G  37     246.930 146.180 -13.154  1.00 71.03      GS7
ATOM  40009  ND2 ASN G  37     245.664 146.977 -14.840  1.00 71.03      GS7
ATOM  40010  C   ASN G  37     245.489 143.511 -16.356  1.00 57.10      GS7
ATOM  40011  O   ASN G  37     245.726 143.762 -17.538  1.00 57.10      GS7
ATOM  40012  N   LEU G  38     245.894 142.400 -15.746  1.00 38.46      GS7
ATOM  40013  CA  LEU G  38     246.647 141.360 -16.453  1.00 38.46      GS7
ATOM  40014  CB  LEU G  38     246.598 140.066 -15.635  1.00 50.55      GS7
ATOM  40015  CG  LEU G  38     246.590 138.685 -16.294  1.00 50.55      GS7
ATOM  40016  CD1 LEU G  38     247.718 138.553 -17.295  1.00 50.55      GS7
ATOM  40017  CD2 LEU G  38     246.703 137.619 -15.190  1.00 50.55      GS7
ATOM  40018  C   LEU G  38     246.072 141.149 -17.862  1.00 38.46      GS7
ATOM  40019  O   LEU G  38     246.788 140.842 -18.817  1.00 38.46      GS7
ATOM  40020  N   ALA G  39     244.766 141.330 -17.982  1.00 62.05      GS7
ATOM  40021  CA  ALA G  39     244.119 141.183 -19.263  1.00 62.05      GS7
ATOM  40022  CB  ALA G  39     242.632 141.359 -19.109  1.00 39.73      GS7
ATOM  40023  C   ALA G  39     244.696 142.277 -20.135  1.00 62.05      GS7
ATOM  40024  O   ALA G  39     245.325 141.998 -21.155  1.00 62.05      GS7
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ATOM  40025  N   ALA G  40     244.496 143.523 -19.710  1.00 51.89      GS7
ATOM  40026  CA  ALA G  40     244.994 144.696 -20.430  1.00 51.89      GS7
ATOM  40027  CB  ALA G  40     244.709 145.956 -19.627  1.00113.77      GS7
ATOM  40028  C   ALA G  40     246.494 144.584 -20.715  1.00 51.89      GS7
ATOM  40029  O   ALA G  40     246.944 144.807 -21.848  1.00 51.89      GS7
ATOM  40030  N   ARG G  41     247.267 144.241 -19.686  1.00 65.67      GS7
ATOM  40031  CA  ARG G  41     248.700 144.079 -19.862  1.00 65.67      GS7
ATOM  40032  CB  ARG G  41     249.323 143.421 -18.638  1.00123.91      GS7
ATOM  40033  CG  ARG G  41     249.382 144.355 -17.465  1.00123.91      GS7
ATOM  40034  CD  ARG G  41     250.316 143.861 -16.395  1.00123.91      GS7
ATOM  40035  NE  ARG G  41     250.602 144.939 -15.460  1.00123.91      GS7
ATOM  40036  CZ  ARG G  41     251.408 144.832 -14.412  1.00123.91      GS7
ATOM  40037  NH1 ARG G  41     252.020 143.684 -14.152  1.00123.91      GS7
ATOM  40038  NH2 ARG G  41     251.603 145.881 -13.627  1.00123.91      GS7
ATOM  40039  C   ARG G  41     248.943 143.225 -21.092  1.00 65.67      GS7
ATOM  40040  O   ARG G  41     249.620 143.650 -22.025  1.00 65.67      GS7
ATOM  40041  N   ILE G  42     248.367 142.030 -21.106  1.00 54.35      GS7
ATOM  40042  CA  ILE G  42     248.539 141.152 -22.249  1.00 54.35      GS7
ATOM  40043  CB  ILE G  42     247.714 139.843 -22.128  1.00 32.33      GS7
ATOM  40044  CG2 ILE G  42     247.857 139.017 -23.416  1.00 32.33      GS7
ATOM  40045  CG1 ILE G  42     248.208 139.008 -20.945  1.00 32.33      GS7
ATOM  40046  CD1 ILE G  42     247.383 137.760 -20.667  1.00 32.33      GS7
ATOM  40047  C   ILE G  42     248.166 141.814 -23.570  1.00 54.35      GS7
ATOM  40048  O   ILE G  42     249.036 142.049 -24.408  1.00 54.35      GS7
ATOM  40049  N   PHE G  43     246.894 142.135 -23.771  1.00 52.80      GS7
ATOM  40050  CA  PHE G  43     246.538 142.709 -25.059  1.00 52.80      GS7
ATOM  40051  CB  PHE G  43     245.116 143.227 -25.108  1.00 42.30      GS7
ATOM  40052  CG  PHE G  43     244.808 143.912 -26.402  1.00 42.30      GS7
ATOM  40053  CD1 PHE G  43     244.721 143.177 -27.582  1.00 42.30      GS7
ATOM  40054  CD2 PHE G  43     244.685 145.297 -26.467  1.00 42.30      GS7
ATOM  40055  CE1 PHE G  43     244.515 143.808 -28.817  1.00 42.30      GS7
ATOM  40056  CE2 PHE G  43     244.479 145.939 -27.698  1.00 42.30      GS7
ATOM  40057  CZ  PHE G  43     244.394 145.188 -28.875  1.00 42.30      GS7
ATOM  40058  C   PHE G  43     247.428 143.835 -25.563  1.00 52.80      GS7
ATOM  40059  O   PHE G  43     247.614 143.994 -26.772  1.00 52.80      GS7
ATOM  40060  N   TYR G  44     247.958 144.636 -24.652  1.00 82.38      GS7
ATOM  40061  CA  TYR G  44     248.809 145.734 -25.069  1.00 82.38      GS7
ATOM  40062  CB  TYR G  44     248.872 146.779 -23.961  1.00 52.63      GS7
ATOM  40063  CG  TYR G  44     247.561 147.524 -23.813  1.00 52.63      GS7
ATOM  40064  CD1 TYR G  44     246.847 147.503 -22.614  1.00 52.63      GS7
ATOM  40065  CE1 TYR G  44     245.629 148.179 -22.490  1.00 52.63      GS7
ATOM  40066  CD2 TYR G  44     247.024 148.239 -24.886  1.00 52.63      GS7
ATOM  40067  CE2 TYR G  44     245.809 148.916 -24.771  1.00 52.63      GS7
ATOM  40068  CZ  TYR G  44     245.123 148.880 -23.575  1.00 52.63      GS7
ATOM  40069  OH  TYR G  44     243.933 149.550 -23.468  1.00 52.63      GS7
ATOM  40070  C   TYR G  44     250.189 145.229 -25.450  1.00 82.38      GS7
ATOM  40071  O   TYR G  44     250.688 145.535 -26.531  1.00 82.38      GS7
ATOM  40072  N   ASP G  45     250.801 144.442 -24.574  1.00 68.94      GS7
ATOM  40073  CA  ASP G  45     252.112 143.884 -24.869  1.00 68.94      GS7
ATOM  40074  CB  ASP G  45     252.525 142.917 -23.770  1.00101.87      GS7
ATOM  40075  CG  ASP G  45     252.852 143.626 -22.490  1.00101.87      GS7
ATOM  40076  OD1 ASP G  45     252.085 144.534 -22.112  1.00101.87      GS7
ATOM  40077  OD2 ASP G  45     253.871 143.278 -21.862  1.00101.87      GS7
ATOM  40078  C   ASP G  45     252.055 143.157 -26.206  1.00 68.94      GS7
ATOM  40079  O   ASP G  45     253.041 143.095 -26.943  1.00 68.94      GS7
ATOM  40080  N   ALA G  46     250.888 142.608 -26.515  1.00 81.16      GS7
ATOM  40081  CA  ALA G  46     250.700 141.905 -27.771  1.00 81.16      GS7
ATOM  40082  CB  ALA G  46     249.310 141.300 -27.825  1.00 95.00      GS7
ATOM  40083  C   ALA G  46     250.878 142.908 -28.898  1.00 81.16      GS7
ATOM  40084  O   ALA G  46     251.537 142.624 -29.899  1.00 81.16      GS7
ATOM  40085  N   CYS G  47     250.287 144.087 -28.723  1.00 76.19      GS7
ATOM  40086  CA  CYS G  47     250.373 145.143 -29.724  1.00 76.19      GS7
ATOM  40087  CB  CYS G  47     249.599 146.384 -29.273  1.00 82.24      GS7
ATOM  40088  SG  CYS G  47     247.821 146.287 -29.555  1.00 82.24      GS7
ATOM  40089  C   CYS G  47     251.812 145.522 -30.000  1.00 76.19      GS7
ATOM  40090  O   CYS G  47     252.206 145.687 -31.154  1.00 76.19      GS7
ATOM  40091  N   LYS G  48     252.600 145.660 -28.941  1.00 77.98      GS7
ATOM  40092  CA  LYS G  48     253.992 146.022 -29.115  1.00 77.98      GS7
ATOM  40093  CB  LYS G  48     254.661 146.231 -27.757  1.00125.46      GS7
ATOM  40094  CG  LYS G  48     254.198 147.506 -27.054  1.00125.46      GS7
ATOM  40095  CD  LYS G  48     254.402 148.741 -27.946  1.00125.46      GS7
ATOM  40096  CE  LYS G  48     253.965 150.043 -27.267  1.00125.46      GS7
ATOM  40097  NZ  LYS G  48     252.493 150.126 -27.029  1.00125.46      GS7
ATOM  40098  C   LYS G  48     254.715 144.954 -29.920  1.00 77.98      GS7
ATOM  40099  O   LYS G  48     255.507 145.263 -30.811  1.00 77.98      GS7
ATOM  40100  N   ILE G  49     254.420 143.695 -29.625  1.00 49.05      GS7
ATOM  40101  CA  ILE G  49     255.052 142.593 -30.334  1.00 49.05      GS7
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ATOM  40102  CB  ILE G  49     254.676 141.250 -29.709  1.00 37.98      GS7
ATOM  40103  CG2 ILE G  49     255.182 140.109 -30.579  1.00 37.98      GS7
ATOM  40104  CG1 ILE G  49     255.254 141.177 -28.293  1.00 37.98      GS7
ATOM  40105  CD1 ILE G  49     255.078 139.810 -27.610  1.00 37.98      GS7
ATOM  40106  C   ILE G  49     254.692 142.580 -31.808  1.00 49.05      GS7
ATOM  40107  O   ILE G  49     255.471 142.126 -32.631  1.00 49.05      GS7
ATOM  40108  N   ILE G  50     253.511 143.066 -32.155  1.00 61.48      GS7
ATOM  40109  CA  ILE G  50     253.150 143.091 -33.559  1.00 61.48      GS7
ATOM  40110  CB  ILE G  50     251.656 143.368 -33.752  1.00 85.39      GS7
ATOM  40111  CG2 ILE G  50     251.369 143.703 -35.201  1.00 85.39      GS7
ATOM  40112  CG1 ILE G  50     250.857 142.136 -33.317  1.00 85.39      GS7
ATOM  40113  CD1 ILE G  50     249.360 142.306 -33.408  1.00 85.39      GS7
ATOM  40114  C   ILE G  50     253.986 144.172 -34.230  1.00 61.48      GS7
ATOM  40115  O   ILE G  50     254.304 144.070 -35.415  1.00 61.48      GS7
ATOM  40116  N   GLN G  51     254.351 145.199 -33.460  1.00 73.00      GS7
ATOM  40117  CA  GLN G  51     255.192 146.292 -33.957  1.00 73.00      GS7
ATOM  40118  CB  GLN G  51     255.280 147.415 -32.928  1.00118.15      GS7
ATOM  40119  CG  GLN G  51     254.190 148.441 -33.055  1.00118.15      GS7
ATOM  40120  CD  GLN G  51     254.041 148.928 -34.479  1.00118.15      GS7
ATOM  40121  OE1 GLN G  51     255.028 149.199 -35.162  1.00118.15      GS7
ATOM  40122  NE2 GLN G  51     252.802 149.047 -34.935  1.00118.15      GS7
ATOM  40123  C   GLN G  51     256.604 145.776 -34.238  1.00 73.00      GS7
ATOM  40124  O   GLN G  51     257.121 145.900 -35.351  1.00 73.00      GS7
ATOM  40125  N   GLU G  52     257.219 145.196 -33.211  1.00 91.23      GS7
ATOM  40126  CA  GLU G  52     258.560 144.650 -33.330  1.00 91.23      GS7
ATOM  40127  CB  GLU G  52     258.951 143.888 -32.061  1.00200.87      GS7
ATOM  40128  CG  GLU G  52     259.113 144.744 -30.818  1.00200.87      GS7
ATOM  40129  CD  GLU G  52     259.619 143.944 -29.627  1.00200.87      GS7
ATOM  40130  OE1 GLU G  52     260.716 143.353 -29.727  1.00200.87      GS7
ATOM  40131  OE2 GLU G  52     258.920 143.905 -28.590  1.00200.87      GS7
ATOM  40132  C   GLU G  52     258.660 143.701 -34.511  1.00 91.23      GS7
ATOM  40133  O   GLU G  52     259.747 143.242 -34.840  1.00 91.23      GS7
ATOM  40134  N   LYS G  53     257.534 143.399 -35.148  1.00 64.53      GS7
ATOM  40135  CA  LYS G  53     257.554 142.484 -36.277  1.00 64.53      GS7
ATOM  40136  CB  LYS G  53     257.032 141.110 -35.860  1.00108.99      GS7
ATOM  40137  CG  LYS G  53     257.955 140.361 -34.915  1.00108.99      GS7
ATOM  40138  CD  LYS G  53     257.598 138.881 -34.868  1.00108.99      GS7
ATOM  40139  CE  LYS G  53     258.536 138.099 -33.955  1.00108.99      GS7
ATOM  40140  NZ  LYS G  53     258.282 136.629 -34.017  1.00108.99      GS7
ATOM  40141  C   LYS G  53     256.806 142.950 -37.513  1.00 64.53      GS7
ATOM  40142  O   LYS G  53     256.708 142.211 -38.486  1.00 64.53      GS7
ATOM  40143  N   THR G  54     256.265 144.160 -37.479  1.00 82.06      GS7
ATOM  40144  CA  THR G  54     255.561 144.702 -38.640  1.00 82.06      GS7
ATOM  40145  CB  THR G  54     254.043 144.351 -38.662  1.00 72.75      GS7
ATOM  40146  OG1 THR G  54     253.366 145.074 -37.626  1.00 72.75      GS7
ATOM  40147  CG2 THR G  54     253.823 142.859 -38.470  1.00 72.75      GS7
ATOM  40148  C   THR G  54     255.676 146.212 -38.584  1.00 82.06      GS7
ATOM  40149  O   THR G  54     255.672 146.801 -37.503  1.00 82.06      GS7
ATOM  40150  N   GLY G  55     255.794 146.842 -39.743  1.00135.75      GS7
ATOM  40151  CA  GLY G  55     255.879 148.287 -39.759  1.00135.75      GS7
ATOM  40152  C   GLY G  55     254.463 148.820 -39.706  1.00135.75      GS7
ATOM  40153  O   GLY G  55     254.224 150.011 -39.915  1.00135.75      GS7
ATOM  40154  N   GLN G  56     253.524 147.922 -39.409  1.00 82.04      GS7
ATOM  40155  CA  GLN G  56     252.103 148.258 -39.350  1.00 82.04      GS7
ATOM  40156  CB  GLN G  56     251.290 147.139 -40.005  1.00138.53      GS7
ATOM  40157  CG  GLN G  56     251.866 146.671 -41.330  1.00138.53      GS7
ATOM  40158  CD  GLN G  56     250.955 145.706 -42.055  1.00138.53      GS7
ATOM  40159  OE1 GLN G  56     249.870 146.080 -42.504  1.00138.53      GS7
ATOM  40160  NE2 GLN G  56     251.388 144.455 -42.171  1.00138.53      GS7
ATOM  40161  C   GLN G  56     251.585 148.510 -37.939  1.00 82.04      GS7
ATOM  40162  O   GLN G  56     252.152 148.021 -36.963  1.00 82.04      GS7
ATOM  40163  N   GLU G  57     250.496 149.273 -37.856  1.00 65.53      GS7
ATOM  40164  CA  GLU G  57     249.858 149.628 -36.590  1.00 65.53      GS7
ATOM  40165  CB  GLU G  57     248.755 150.658 -36.833  1.00153.66      GS7
ATOM  40166  CG  GLU G  57     249.262 152.054 -37.111  1.00153.66      GS7
ATOM  40167  CD  GLU G  57     249.881 152.686 -35.884  1.00153.66      GS7
ATOM  40168  OE1 GLU G  57     249.174 152.794 -34.859  1.00153.66      GS7
ATOM  40169  OE2 GLU G  57     251.069 153.071 -35.943  1.00153.66      GS7
ATOM  40170  C   GLU G  57     249.268 148.433 -35.852  1.00 65.53      GS7
ATOM  40171  O   GLU G  57     248.549 147.618 -36.430  1.00 65.53      GS7
ATOM  40172  N   PRO G  58     249.551 148.323 -34.550  1.00 74.44      GS7
ATOM  40173  CD  PRO G  58     250.101 149.348 -33.648  1.00 85.58      GS7
ATOM  40174  CA  PRO G  58     249.012 147.197 -33.793  1.00 74.44      GS7
ATOM  40175  CB  PRO G  58     249.492 147.481 -32.376  1.00 85.58      GS7
ATOM  40176  CG  PRO G  58     249.478 148.973 -32.330  1.00 85.58      GS7
ATOM  40177  C   PRO G  58     247.488 147.155 -33.913  1.00 74.44      GS7
ATOM  40178  O   PRO G  58     246.891 146.081 -33.910  1.00 74.44      GS7
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ATOM  40179  N   LEU G  59     246.856 148.321 -34.023  1.00 67.54      GS7
ATOM  40180  CA  LEU G  59     245.409 148.349 -34.166  1.00 67.54      GS7
ATOM  40181  CB  LEU G  59     244.844 149.744 -33.931  1.00 65.80      GS7
ATOM  40182  CG  LEU G  59     243.323 149.680 -33.763  1.00 65.80      GS7
ATOM  40183  CD1 LEU G  59     243.002 149.359 -32.311  1.00 65.80      GS7
ATOM  40184  CD2 LEU G  59     242.684 150.991 -34.153  1.00 65.80      GS7
ATOM  40185  C   LEU G  59     245.076 147.921 -35.585  1.00 67.54      GS7
ATOM  40186  O   LEU G  59     244.211 147.081 -35.803  1.00 67.54      GS7
ATOM  40187  N   LYS G  60     245.767 148.511 -36.552  1.00 84.99      GS7
ATOM  40188  CA  LYS G  60     245.561 148.178 -37.956  1.00 84.99      GS7
ATOM  40189  CB  LYS G  60     246.702 148.744 -38.803  1.00177.11      GS7
ATOM  40190  CG  LYS G  60     246.603 148.430 -40.287  1.00177.11      GS7
ATOM  40191  CD  LYS G  60     245.402 149.116 -40.915  1.00177.11      GS7
ATOM  40192  CE  LYS G  60     245.326 148.838 -42.407  1.00177.11      GS7
ATOM  40193  NZ  LYS G  60     244.170 149.538 -43.029  1.00177.11      GS7
ATOM  40194  C   LYS G  60     245.538 146.665 -38.090  1.00 84.99      GS7
ATOM  40195  O   LYS G  60     244.663 146.099 -38.742  1.00 84.99      GS7
ATOM  40196  N   VAL G  61     246.512 146.015 -37.469  1.00 64.57      GS7
ATOM  40197  CA  VAL G  61     246.596 144.565 -37.510  1.00 64.57      GS7
ATOM  40198  CB  VAL G  61     247.772 144.049 -36.658  1.00 89.47      GS7
ATOM  40199  CG1 VAL G  61     247.919 142.543 -36.820  1.00 89.47      GS7
ATOM  40200  CG2 VAL G  61     249.042 144.758 -37.052  1.00 89.47      GS7
ATOM  40201  C   VAL G  61     245.307 144.014 -36.925  1.00 64.57      GS7
ATOM  40202  O   VAL G  61     244.472 143.446 -37.637  1.00 64.57      GS7
ATOM  40203  N   PHE G  62     245.165 144.197 -35.614  1.00 49.08      GS7
ATOM  40204  CA  PHE G  62     244.000 143.743 -34.867  1.00 49.08      GS7
ATOM  40205  CB  PHE G  62     243.799 144.641 -33.653  1.00 67.23      GS7
ATOM  40206  CG  PHE G  62     242.655 144.244 -32.804  1.00 67.23      GS7
ATOM  40207  CD1 PHE G  62     242.562 142.949 -32.312  1.00 67.23      GS7
ATOM  40208  CD2 PHE G  62     241.659 145.158 -32.495  1.00 67.23      GS7
ATOM  40209  CE1 PHE G  62     241.484 142.563 -31.519  1.00 67.23      GS7
ATOM  40210  CE2 PHE G  62     240.576 144.788 -31.704  1.00 67.23      GS7
ATOM  40211  CZ  PHE G  62     240.487 143.485 -31.214  1.00 67.23      GS7
ATOM  40212  C   PHE G  62     242.757 143.754 -35.749  1.00 49.08      GS7
ATOM  40213  O   PHE G  62     242.211 142.705 -36.071  1.00 49.08      GS7
ATOM  40214  N   LYS G  63     242.327 144.943 -36.148  1.00 76.93      GS7
ATOM  40215  CA  LYS G  63     241.162 145.086 -37.013  1.00 76.93      GS7
ATOM  40216  CB  LYS G  63     241.214 146.428 -37.749  1.00134.45      GS7
ATOM  40217  CG  LYS G  63     241.283 147.648 -36.853  1.00134.45      GS7
ATOM  40218  CD  LYS G  63     239.978 147.879 -36.125  1.00134.45      GS7
ATOM  40219  CE  LYS G  63     240.058 149.131 -35.274  1.00134.45      GS7
ATOM  40220  NZ  LYS G  63     238.779 149.395 -34.569  1.00134.45      GS7
ATOM  40221  C   LYS G  63     241.104 143.959 -38.050  1.00 76.93      GS7
ATOM  40222  O   LYS G  63     240.400 142.965 -37.868  1.00 76.93      GS7
ATOM  40223  N   GLN G  64     241.857 144.129 -39.133  1.00 83.53      GS7
ATOM  40224  CA  GLN G  64     241.901 143.156 -40.218  1.00 83.53      GS7
ATOM  40225  CB  GLN G  64     243.183 143.350 -41.034  1.00133.50      GS7
ATOM  40226  CG  GLN G  64     243.155 142.679 -42.394  1.00133.50      GS7
ATOM  40227  CD  GLN G  64     242.063 143.238 -43.287  1.00133.50      GS7
ATOM  40228  OE1 GLN G  64     242.065 144.424 -43.617  1.00133.50      GS7
ATOM  40229  NE2 GLN G  64     241.123 142.387 -43.681  1.00133.50      GS7
ATOM  40230  C   GLN G  64     241.818 141.714 -39.708  1.00 83.53      GS7
ATOM  40231  O   GLN G  64     241.149 140.870 -40.308  1.00 83.53      GS7
ATOM  40232  N   ALA G  65     242.496 141.435 -38.600  1.00 68.01      GS7
ATOM  40233  CA  ALA G  65     242.479 140.097 -38.031  1.00 68.01      GS7
ATOM  40234  CB  ALA G  65     243.274 140.071 -36.732  1.00 75.14      GS7
ATOM  40235  C   ALA G  65     241.034 139.688 -37.775  1.00 68.01      GS7
ATOM  40236  O   ALA G  65     240.566 138.666 -38.276  1.00 68.01      GS7
ATOM  40237  N   VAL G  66     240.333 140.503 -36.993  1.00 47.10      GS7
ATOM  40238  CA  VAL G  66     238.941 140.240 -36.668  1.00 47.10      GS7
ATOM  40239  CB  VAL G  66     238.341 141.373 -35.796  1.00 31.49      GS7
ATOM  40240  CG1 VAL G  66     236.878 141.075 -35.472  1.00 31.49      GS7
ATOM  40241  CG2 VAL G  66     239.151 141.529 -34.509  1.00 31.49      GS7
ATOM  40242  C   VAL G  66     238.139 140.129 -37.957  1.00 47.10      GS7
ATOM  40243  O   VAL G  66     237.586 139.077 -38.265  1.00 47.10      GS7
ATOM  40244  N   GLU G  67     238.084 141.215 -38.716  1.00 64.17      GS7
ATOM  40245  CA  GLU G  67     237.350 141.219 -39.976  1.00 64.17      GS7
ATOM  40246  CB  GLU G  67     237.754 142.433 -40.813  1.00155.34      GS7
ATOM  40247  CG  GLU G  67     237.123 142.457 -42.195  1.00155.34      GS7
ATOM  40248  CD  GLU G  67     235.611 142.547 -42.144  1.00155.34      GS7
ATOM  40249  OE1 GLU G  67     234.967 142.330 -43.195  1.00155.34      GS7
ATOM  40250  OE2 GLU G  67     235.067 142.842 -41.056  1.00155.34      GS7
ATOM  40251  C   GLU G  67     237.583 139.944 -40.786  1.00 64.17      GS7
ATOM  40252  O   GLU G  67     236.779 139.576 -41.634  1.00 64.17      GS7
ATOM  40253  N   ASN G  68     238.683 139.260 -40.518  1.00 69.62      GS7
ATOM  40254  CA  ASN G  68     238.991 138.050 -41.253  1.00 69.62      GS7
ATOM  40255  CB  ASN G  68     240.510 137.851 -41.285  1.00 77.83      GS7
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ATOM  40256  CG  ASN G  68     241.133 138.310 -42.594  1.00 77.83      GS7
ATOM  40257  OD1 ASN G  68     240.631 139.223 -43.246  1.00 77.83      GS7
ATOM  40258  ND2 ASN G  68     242.240 137.682 -42.977  1.00 77.83      GS7
ATOM  40259  C   ASN G  68     238.306 136.804 -40.701  1.00 69.62      GS7
ATOM  40260  O   ASN G  68     237.911 135.918 -41.458  1.00 69.62      GS7
ATOM  40261  N   VAL G  69     238.149 136.747 -39.385  1.00 58.17      GS7
ATOM  40262  CA  VAL G  69     237.548 135.590 -38.727  1.00 58.17      GS7
ATOM  40263  CB  VAL G  69     238.107 135.457 -37.285  1.00 57.35      GS7
ATOM  40264  CG1 VAL G  69     238.109 134.000 -36.850  1.00 57.35      GS7
ATOM  40265  CG2 VAL G  69     239.518 136.051 -37.216  1.00 57.35      GS7
ATOM  40266  C   VAL G  69     236.004 135.582 -38.680  1.00 58.17      GS7
ATOM  40267  O   VAL G  69     235.390 134.535 -38.466  1.00 58.17      GS7
ATOM  40268  N   LYS G  70     235.376 136.737 -38.880  1.00 89.19      GS7
ATOM  40269  CA  LYS G  70     233.914 136.809 -38.856  1.00 89.19      GS7
ATOM  40270  CB  LYS G  70     233.424 138.219 -39.169  1.00 73.71      GS7
ATOM  40271  CG  LYS G  70     233.760 139.289 -38.167  1.00 73.71      GS7
ATOM  40272  CD  LYS G  70     233.310 140.612 -38.751  1.00 73.71      GS7
ATOM  40273  CE  LYS G  70     233.865 141.801 -38.009  1.00 73.71      GS7
ATOM  40274  NZ  LYS G  70     233.700 143.038 -38.836  1.00 73.71      GS7
ATOM  40275  C   LYS G  70     233.279 135.873 -39.879  1.00 89.19      GS7
ATOM  40276  O   LYS G  70     233.437 136.059 -41.086  1.00 89.19      GS7
ATOM  40277  N   PRO G  71     232.542 134.860 -39.407  1.00 64.74      GS7
ATOM  40278  CD  PRO G  71     232.384 134.474 -37.994  1.00 68.16      GS7
ATOM  40279  CA  PRO G  71     231.874 133.895 -40.279  1.00 64.74      GS7
ATOM  40280  CB  PRO G  71     231.656 132.708 -39.356  1.00 68.16      GS7
ATOM  40281  CG  PRO G  71     231.341 133.376 -38.069  1.00 68.16      GS7
ATOM  40282  C   PRO G  71     230.561 134.487 -40.779  1.00 64.74      GS7
ATOM  40283  O   PRO G  71     229.776 135.003 -39.989  1.00 64.74      GS7
ATOM  40284  N   ARG G  72     230.325 134.406 -42.084  1.00 54.46      GS7
ATOM  40285  CA  ARG G  72     229.113 134.949 -42.688  1.00 54.46      GS7
ATOM  40286  CB  ARG G  72     229.425 135.418 -44.109  1.00137.98      GS7
ATOM  40287  CG  ARG G  72     230.425 134.533 -44.823  1.00137.98      GS7
ATOM  40288  CD  ARG G  72     230.820 135.101 -46.170  1.00137.98      GS7
ATOM  40289  NE  ARG G  72     231.956 134.386 -46.747  1.00137.98      GS7
ATOM  40290  CZ  ARG G  72     233.188 134.409 -46.246  1.00137.98      GS7
ATOM  40291  NH1 ARG G  72     233.453 135.116 -45.153  1.00137.98      GS7
ATOM  40292  NH2 ARG G  72     234.157 133.725 -46.840  1.00137.98      GS7
ATOM  40293  C   ARG G  72     227.926 133.985 -42.700  1.00 54.46      GS7
ATOM  40294  O   ARG G  72     226.788 134.396 -42.912  1.00 54.46      GS7
ATOM  40295  N   MET G  73     228.185 132.704 -42.473  1.00 62.59      GS7
ATOM  40296  CA  MET G  73     227.116 131.709 -42.462  1.00 62.59      GS7
ATOM  40297  CB  MET G  73     226.912 131.145 -43.864  1.00 77.76      GS7
ATOM  40298  CG  MET G  73     226.337 132.143 -44.844  1.00 77.76      GS7
ATOM  40299  SD  MET G  73     224.551 132.049 -44.932  1.00 77.76      GS7
ATOM  40300  CE  MET G  73     224.332 131.483 -46.629  1.00 77.76      GS7
ATOM  40301  C   MET G  73     227.449 130.577 -41.505  1.00 62.59      GS7
ATOM  40302  O   MET G  73     228.559 130.057 -41.516  1.00 62.59      GS7
ATOM  40303  N   GLU G  74     226.495 130.205 -40.663  1.00 90.95      GS7
ATOM  40304  CA  GLU G  74     226.725 129.125 -39.716  1.00 90.95      GS7
ATOM  40305  CB  GLU G  74     226.936 129.669 -38.304  1.00 70.02      GS7
ATOM  40306  CG  GLU G  74     225.663 130.145 -37.625  1.00 70.02      GS7
ATOM  40307  CD  GLU G  74     225.904 130.594 -36.199  1.00 70.02      GS7
ATOM  40308  OE1 GLU G  74     226.501 129.819 -35.420  1.00 70.02      GS7
ATOM  40309  OE2 GLU G  74     225.490 131.719 -35.856  1.00 70.02      GS7
ATOM  40310  C   GLU G  74     225.511 128.229 -39.728  1.00 90.95      GS7
ATOM  40311  O   GLU G  74     224.455 128.606 -40.234  1.00 90.95      GS7
ATOM  40312  N   VAL G  75     225.654 127.040 -39.163  1.00 56.45      GS7
ATOM  40313  CA  VAL G  75     224.542 126.116 -39.134  1.00 56.45      GS7
ATOM  40314  CB  VAL G  75     224.965 124.730 -39.628  1.00113.56      GS7
ATOM  40315  CG1 VAL G  75     226.109 124.195 -38.785  1.00113.56      GS7
ATOM  40316  CG2 VAL G  75     223.785 123.800 -39.574  1.00113.56      GS7
ATOM  40317  C   VAL G  75     223.936 125.987 -37.746  1.00 56.45      GS7
ATOM  40318  O   VAL G  75     224.591 125.550 -36.801  1.00 56.45      GS7
ATOM  40319  N   ARG G  76     222.680 126.400 -37.635  1.00 46.50      GS7
ATOM  40320  CA  ARG G  76     221.933 126.320 -36.390  1.00 46.50      GS7
ATOM  40321  CB  ARG G  76     221.141 127.616 -36.156  1.00132.14      GS7
ATOM  40322  CG  ARG G  76     222.003 128.786 -35.680  1.00132.14      GS7
ATOM  40323  CD  ARG G  76     221.343 130.155 -35.897  1.00132.14      GS7
ATOM  40324  NE  ARG G  76     220.098 130.338 -35.150  1.00132.14      GS7
ATOM  40325  CZ  ARG G  76     219.392 131.469 -35.129  1.00132.14      GS7
ATOM  40326  NH1 ARG G  76     219.801 132.531 -35.812  1.00132.14      GS7
ATOM  40327  NH2 ARG G  76     218.268 131.538 -34.430  1.00132.14      GS7
ATOM  40328  C   ARG G  76     221.000 125.131 -36.582  1.00 46.50      GS7
ATOM  40329  O   ARG G  76     220.389 124.982 -37.641  1.00 46.50      GS7
ATOM  40330  N   SER G  77     220.912 124.276 -35.568  1.00 75.16      GS7
ATOM  40331  CA  SER G  77     220.068 123.087 -35.629  1.00 75.16      GS7
ATOM  40332  CB  SER G  77     220.463 122.111 -34.520  1.00119.51      GS7
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ATOM  40333  OG  SER G  77     219.617 120.975 -34.519  1.00119.51      GS7
ATOM  40334  C   SER G  77     218.578 123.394 -35.522  1.00 75.16      GS7
ATOM  40335  O   SER G  77     218.171 124.346 -34.850  1.00 75.16      GS7
ATOM  40336  N   ARG G  78     217.773 122.574 -36.192  1.00102.61      GS7
ATOM  40337  CA  ARG G  78     216.322 122.717 -36.183  1.00102.61      GS7
ATOM  40338  CB  ARG G  78     215.869 123.643 -37.313  1.00123.98      GS7
ATOM  40339  CG  ARG G  78     214.357 123.815 -37.420  1.00123.98      GS7
ATOM  40340  CD  ARG G  78     213.999 124.786 -38.537  1.00123.98      GS7
ATOM  40341  NE  ARG G  78     212.560 124.876 -38.772  1.00123.98      GS7
ATOM  40342  CZ  ARG G  78     212.006 125.637 -39.712  1.00123.98      GS7
ATOM  40343  NH1 ARG G  78     212.771 126.375 -40.505  1.00123.98      GS7
ATOM  40344  NH2 ARG G  78     210.689 125.657 -39.866  1.00123.98      GS7
ATOM  40345  C   ARG G  78     215.668 121.349 -36.345  1.00102.61      GS7
ATOM  40346  O   ARG G  78     215.570 120.826 -37.455  1.00102.61      GS7
ATOM  40347  N   ARG G  79     215.224 120.775 -35.231  1.00146.10      GS7
ATOM  40348  CA  ARG G  79     214.579 119.465 -35.230  1.00146.10      GS7
ATOM  40349  CB  ARG G  79     214.406 118.978 -33.789  1.00192.98      GS7
ATOM  40350  CG  ARG G  79     213.979 117.527 -33.661  1.00192.98      GS7
ATOM  40351  CD  ARG G  79     213.895 117.106 -32.201  1.00192.98      GS7
ATOM  40352  NE  ARG G  79     213.707 115.665 -32.056  1.00192.98      GS7
ATOM  40353  CZ  ARG G  79     212.661 114.991 -32.525  1.00192.98      GS7
ATOM  40354  NH1 ARG G  79     211.693 115.625 -33.175  1.00192.98      GS7
ATOM  40355  NH2 ARG G  79     212.585 113.679 -32.347  1.00192.98      GS7
ATOM  40356  C   ARG G  79     213.218 119.550 -35.916  1.00146.10      GS7
ATOM  40357  O   ARG G  79     212.308 120.214 -35.419  1.00146.10      GS7
ATOM  40358  N   VAL G  80     213.079 118.876 -37.055  1.00168.77      GS7
ATOM  40359  CA  VAL G  80     211.823 118.900 -37.799  1.00168.77      GS7
ATOM  40360  CB  VAL G  80     211.913 119.859 -39.007  1.00124.17      GS7
ATOM  40361  CG1 VAL G  80     210.572 119.920 -39.726  1.00124.17      GS7
ATOM  40362  CG2 VAL G  80     212.335 121.244 -38.542  1.00124.17      GS7
ATOM  40363  C   VAL G  80     211.397 117.527 -38.314  1.00168.77      GS7
ATOM  40364  O   VAL G  80     212.236 116.680 -38.624  1.00168.77      GS7
ATOM  40365  N   GLY G  81     210.083 117.324 -38.402  1.00191.17      GS7
ATOM  40366  CA  GLY G  81     209.538 116.067 -38.886  1.00191.17      GS7
ATOM  40367  C   GLY G  81     209.766 114.897 -37.950  1.00191.17      GS7
ATOM  40368  O   GLY G  81     208.821 114.321 -37.409  1.00191.17      GS7
ATOM  40369  N   GLY G  82     211.033 114.544 -37.769  1.00126.67      GS7
ATOM  40370  CA  GLY G  82     211.399 113.441 -36.902  1.00126.67      GS7
ATOM  40371  C   GLY G  82     212.904 113.280 -36.945  1.00126.67      GS7
ATOM  40372  O   GLY G  82     213.432 112.179 -36.780  1.00126.67      GS7
ATOM  40373  N   ALA G  83     213.591 114.394 -37.184  1.00152.35      GS7
ATOM  40374  CA  ALA G  83     215.047 114.417 -37.261  1.00152.35      GS7
ATOM  40375  CB  ALA G  83     215.505 113.861 -38.604  1.00145.60      GS7
ATOM  40376  C   ALA G  83     215.570 115.841 -37.073  1.00152.35      GS7
ATOM  40377  O   ALA G  83     214.850 116.815 -37.304  1.00152.35      GS7
ATOM  40378  N   ASN G  84     216.829 115.950 -36.658  1.00114.61      GS7
ATOM  40379  CA  ASN G  84     217.459 117.245 -36.422  1.00114.61      GS7
ATOM  40380  CB  ASN G  84     218.308 117.180 -35.154  1.00118.86      GS7
ATOM  40381  CG  ASN G  84     217.527 116.672 -33.964  1.00118.86      GS7
ATOM  40382  OD1 ASN G  84     216.922 115.600 -34.017  1.00118.86      GS7
ATOM  40383  ND2 ASN G  84     217.534 117.437 -32.880  1.00118.86      GS7
ATOM  40384  C   ASN G  84     218.321 117.693 -37.599  1.00114.61      GS7
ATOM  40385  O   ASN G  84     219.488 117.321 -37.721  1.00114.61      GS7
ATOM  40386  N   TYR G  85     217.728 118.506 -38.462  1.00 96.38      GS7
ATOM  40387  CA  TYR G  85     218.415 119.019 -39.634  1.00 96.38      GS7
ATOM  40388  CB  TYR G  85     217.380 119.438 -40.679  1.00139.05      GS7
ATOM  40389  CG  TYR G  85     216.568 118.288 -41.237  1.00139.05      GS7
ATOM  40390  CD1 TYR G  85     215.287 118.497 -41.740  1.00139.05      GS7
ATOM  40391  CE1 TYR G  85     214.548 117.457 -42.295  1.00139.05      GS7
ATOM  40392  CD2 TYR G  85     217.097 116.997 -41.299  1.00139.05      GS7
ATOM  40393  CE2 TYR G  85     216.367 115.944 -41.853  1.00139.05      GS7
ATOM  40394  CZ  TYR G  85     215.094 116.183 -42.350  1.00139.05      GS7
ATOM  40395  OH  TYR G  85     214.370 115.152 -42.907  1.00139.05      GS7
ATOM  40396  C   TYR G  85     219.314 120.200 -39.280  1.00 96.38      GS7
ATOM  40397  O   TYR G  85     218.995 121.001 -38.402  1.00 96.38      GS7
ATOM  40398  N   GLN G  86     220.444 120.295 -39.969  1.00 70.23      GS7
ATOM  40399  CA  GLN G  86     221.393 121.375 -39.745  1.00 70.23      GS7
ATOM  40400  CB  GLN G  86     222.821 120.855 -39.915  1.00124.77      GS7
ATOM  40401  CG  GLN G  86     223.243 119.896 -38.818  1.00124.77      GS7
ATOM  40402  CD  GLN G  86     223.142 120.517 -37.435  1.00124.77      GS7
ATOM  40403  OE1 GLN G  86     223.885 121.439 -37.102  1.00124.77      GS7
ATOM  40404  NE2 GLN G  86     222.214 120.018 -36.627  1.00124.77      GS7
ATOM  40405  C   GLN G  86     221.116 122.509 -40.722  1.00 70.23      GS7
ATOM  40406  O   GLN G  86     221.655 122.539 -41.824  1.00 70.23      GS7
ATOM  40407  N   VAL G  87     220.273 123.444 -40.299  1.00 47.65      GS7
ATOM  40408  CA  VAL G  87     219.889 124.576 -41.129  1.00 47.65      GS7
ATOM  40409  CB  VAL G  87     218.603 125.208 -40.620  1.00 50.27      GS7
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ATOM  40410  CG1 VAL G  87     218.065 126.197 -41.646  1.00 50.27       GS7
ATOM  40411  CG2 VAL G  87     217.604 124.125 -40.324  1.00 50.27       GS7
ATOM  40412  C   VAL G  87     220.922 125.682 -41.244  1.00 47.65       GS7
ATOM  40413  O   VAL G  87     221.266 126.337 -40.271  1.00 47.65       GS7
ATOM  40414  N   PRO G  88     221.413 125.917 -42.457  1.00 52.89       GS7
ATOM  40415  CD  PRO G  88     221.147 125.156 -43.688  1.00 63.53       GS7
ATOM  40416  CA  PRO G  88     222.408 126.955 -42.698  1.00 52.89       GS7
ATOM  40417  CB  PRO G  88     223.007 126.532 -44.028  1.00 63.53       GS7
ATOM  40418  CG  PRO G  88     221.814 126.011 -44.746  1.00 63.53       GS7
ATOM  40419  C   PRO G  88     221.732 128.306 -42.799  1.00 52.89       GS7
ATOM  40420  O   PRO G  88     220.804 128.461 -43.581  1.00 52.89       GS7
ATOM  40421  N   MET G  89     222.183 129.284 -42.023  1.00 59.74       GS7
ATOM  40422  CA  MET G  89     221.576 130.606 -42.100  1.00 59.74       GS7
ATOM  40423  CB  MET G  89     220.381 130.692 -41.148  1.00148.78       GS7
ATOM  40424  CG  MET G  89     220.679 130.335 -39.711  1.00148.78       GS7
ATOM  40425  SD  MET G  89     219.142 130.142 -38.798  1.00148.78       GS7
ATOM  40426  CE  MET G  89     218.628 131.848 -38.634  1.00148.78       GS7
ATOM  40427  C   MET G  89     222.533 131.769 -41.858  1.00 59.74       GS7
ATOM  40428  O   MET G  89     223.632 131.600 -41.322  1.00 59.74       GS7
ATOM  40429  N   GLU G  90     222.102 132.955 -42.277  1.00 49.95       GS7
ATOM  40430  CA  GLU G  90     222.897 134.163 -42.134  1.00 49.95       GS7
ATOM  40431  CB  GLU G  90     222.060 135.369 -42.536  1.00104.88       GS7
ATOM  40432  CG  GLU G  90     221.331 135.148 -43.847  1.00104.88       GS7
ATOM  40433  CD  GLU G  90     221.670 136.188 -44.892  1.00104.88       GS7
ATOM  40434  OE1 GLU G  90     221.244 136.021 -46.056  1.00104.88       GS7
ATOM  40435  OE2 GLU G  90     222.357 137.174 -44.551  1.00104.88       GS7
ATOM  40436  C   GLU G  90     223.361 134.288 -40.698  1.00 49.95       GS7
ATOM  40437  O   GLU G  90     222.804 133.660 -39.804  1.00 49.95       GS7
ATOM  40438  N   VAL G  91     224.398 135.079 -40.476  1.00 62.43       GS7
ATOM  40439  CA  VAL G  91     224.916 135.264 -39.133  1.00 62.43       GS7
ATOM  40440  CB  VAL G  91     226.335 134.699 -39.008  1.00 74.64       GS7
ATOM  40441  CG1 VAL G  91     226.825 134.842 -37.580  1.00 74.64       GS7
ATOM  40442  CG2 VAL G  91     226.347 133.248 -39.428  1.00 74.64       GS7
ATOM  40443  C   VAL G  91     224.939 136.750 -38.833  1.00 62.43       GS7
ATOM  40444  O   VAL G  91     225.644 137.510 -39.497  1.00 62.43       GS7
ATOM  40445  N   SER G  92     224.160 137.164 -37.838  1.00 79.39       GS7
ATOM  40446  CA  SER G  92     224.084 138.575 -37.474  1.00 79.39       GS7
ATOM  40447  CB  SER G  92     223.232 138.767 -36.218  1.00108.64       GS7
ATOM  40448  OG  SER G  92     223.939 138.374 -35.055  1.00108.64       GS7
ATOM  40449  C   SER G  92     225.467 139.150 -37.225  1.00 79.39       GS7
ATOM  40450  O   SER G  92     226.342 138.483 -36.674  1.00 79.39       GS7
ATOM  40451  N   PRO G  93     225.680 140.406 -37.624  1.00 69.09       GS7
ATOM  40452  CD  PRO G  93     224.680 141.407 -38.026  1.00 59.23       GS7
ATOM  40453  CA  PRO G  93     226.986 141.029 -37.416  1.00 69.09       GS7
ATOM  40454  CB  PRO G  93     226.770 142.446 -37.924  1.00 59.23       GS7
ATOM  40455  CG  PRO G  93     225.336 142.690 -37.592  1.00 59.23       GS7
ATOM  40456  C   PRO G  93     227.340 140.985 -35.938  1.00 69.09       GS7
ATOM  40457  O   PRO G  93     228.463 140.632 -35.568  1.00 69.09       GS7
ATOM  40458  N   ARG G  94     226.365 141.334 -35.102  1.00 46.88       GS7
ATOM  40459  CA  ARG G  94     226.549 141.336 -33.657  1.00 46.88       GS7
ATOM  40460  CB  ARG G  94     225.204 141.584 -32.963  1.00 68.38       GS7
ATOM  40461  CG  ARG G  94     225.100 141.078 -31.517  1.00 68.38       GS7
ATOM  40462  CD  ARG G  94     225.982 141.833 -30.538  1.00 68.38       GS7
ATOM  40463  NE  ARG G  94     225.955 141.215 -29.213  1.00 68.38       GS7
ATOM  40464  CZ  ARG G  94     226.770 141.546 -28.213  1.00 68.38       GS7
ATOM  40465  NH1 ARG G  94     227.681 142.498 -28.377  1.00 68.38       GS7
ATOM  40466  NH2 ARG G  94     226.694 140.909 -27.052  1.00 68.38       GS7
ATOM  40467  C   ARG G  94     227.154 140.020 -33.183  1.00 46.88       GS7
ATOM  40468  O   ARG G  94     227.974 140.002 -32.267  1.00 46.88       GS7
ATOM  40469  N   ARG G  95     226.761 138.921 -33.816  1.00 53.15       GS7
ATOM  40470  CA  ARG G  95     227.282 137.611 -33.431  1.00 53.15       GS7
ATOM  40471  CB  ARG G  95     226.278 136.512 -33.803  1.00 44.78       GS7
ATOM  40472  CG  ARG G  95     226.678 135.108 -33.399  1.00 44.78       GS7
ATOM  40473  CD  ARG G  95     225.560 134.163 -33.715  1.00 44.78       GS7
ATOM  40474  NE  ARG G  95     225.972 132.784 -33.538  1.00 44.78       GS7
ATOM  40475  CZ  ARG G  95     226.384 132.280 -32.381  1.00 44.78       GS7
ATOM  40476  NH1 ARG G  95     226.431 133.056 -31.303  1.00 44.78       GS7
ATOM  40477  NH2 ARG G  95     226.753 131.004 -32.296  1.00 44.78       GS7
ATOM  40478  C   ARG G  95     228.628 137.334 -34.094  1.00 53.15       GS7
ATOM  40479  O   ARG G  95     229.496 136.665 -33.517  1.00 53.15       GS7
ATOM  40480  N   GLN G  96     228.791 137.848 -35.311  1.00 69.68       GS7
ATOM  40481  CA  GLN G  96     230.034 137.668 -36.038  1.00 69.68       GS7
ATOM  40482  CB  GLN G  96     230.018 138.456 -37.335  1.00 70.72       GS7
ATOM  40483  CG  GLN G  96     228.870 138.112 -38.229  1.00 70.72       GS7
ATOM  40484  CD  GLN G  96     229.076 138.626 -39.632  1.00 70.72       GS7
ATOM  40485  OE1 GLN G  96     229.394 139.798 -39.836  1.00 70.72       GS7
ATOM  40486  NE2 GLN G  96     228.892 137.751 -40.614  1.00 70.72       GS7
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ATOM  40487  C   GLN G  96     231.153 138.181 -35.161  1.00 69.68      GS7
ATOM  40488  O   GLN G  96     232.180 137.522 -34.991  1.00 69.68      GS7
ATOM  40489  N   GLN G  97     230.945 139.367 -34.601  1.00 48.59      GS7
ATOM  40490  CA  GLN G  97     231.942 139.955 -33.730  1.00 48.59      GS7
ATOM  40491  CB  GLN G  97     231.519 141.350 -33.292  1.00 95.81      GS7
ATOM  40492  CG  GLN G  97     232.487 141.962 -32.318  1.00 95.81      GS7
ATOM  40493  CD  GLN G  97     232.292 143.444 -32.171  1.00 95.81      GS7
ATOM  40494  OE1 GLN G  97     232.384 144.194 -33.147  1.00 95.81      GS7
ATOM  40495  NE2 GLN G  97     232.023 143.887 -30.946  1.00 95.81      GS7
ATOM  40496  C   GLN G  97     232.139 139.074 -32.508  1.00 48.59      GS7
ATOM  40497  O   GLN G  97     233.268 138.784 -32.112  1.00 48.59      GS7
ATOM  40498  N   SER G  98     231.032 138.639 -31.921  1.00 51.98      GS7
ATOM  40499  CA  SER G  98     231.085 137.801 -30.734  1.00 51.98      GS7
ATOM  40500  CB  SER G  98     229.672 137.404 -30.294  1.00105.51      GS7
ATOM  40501  OG  SER G  98     228.931 138.529 -29.851  1.00105.51      GS7
ATOM  40502  C   SER G  98     231.897 136.560 -31.023  1.00 51.98      GS7
ATOM  40503  O   SER G  98     232.837 136.231 -30.298  1.00 51.98      GS7
ATOM  40504  N   LEU G  99     231.532 135.876 -32.096  1.00 51.80      GS7
ATOM  40505  CA  LEU G  99     232.222 134.660 -32.473  1.00 51.80      GS7
ATOM  40506  CB  LEU G  99     231.522 134.029 -33.667  1.00 47.27      GS7
ATOM  40507  CG  LEU G  99     230.150 133.480 -33.278  1.00 47.27      GS7
ATOM  40508  CD1 LEU G  99     229.337 133.096 -34.503  1.00 47.27      GS7
ATOM  40509  CD2 LEU G  99     230.359 132.280 -32.388  1.00 47.27      GS7
ATOM  40510  C   LEU G  99     233.691 134.904 -32.773  1.00 51.80      GS7
ATOM  40511  O   LEU G  99     234.554 134.217 -32.235  1.00 51.80      GS7
ATOM  40512  N   ALA G 100     233.975 135.895 -33.613  1.00 46.82      GS7
ATOM  40513  CA  ALA G 100     235.353 136.218 -33.981  1.00 46.82      GS7
ATOM  40514  CB  ALA G 100     235.379 137.462 -34.871  1.00 57.47      GS7
ATOM  40515  C   ALA G 100     236.243 136.428 -32.756  1.00 46.82      GS7
ATOM  40516  O   ALA G 100     237.124 135.622 -32.461  1.00 46.82      GS7
ATOM  40517  N   LEU G 101     236.016 137.518 -32.045  1.00 45.74      GS7
ATOM  40518  CA  LEU G 101     236.810 137.790 -30.868  1.00 45.74      GS7
ATOM  40519  CB  LEU G 101     236.159 138.902 -30.054  1.00 35.78      GS7
ATOM  40520  CG  LEU G 101     235.991 140.184 -30.859  1.00 35.78      GS7
ATOM  40521  CD1 LEU G 101     235.340 141.267 -30.025  1.00 35.78      GS7
ATOM  40522  CD2 LEU G 101     237.354 140.635 -31.321  1.00 35.78      GS7
ATOM  40523  C   LEU G 101     236.938 136.523 -30.029  1.00 45.74      GS7
ATOM  40524  O   LEU G 101     238.037 136.130 -29.639  1.00 45.74      GS7
ATOM  40525  N   ARG G 102     235.818 135.868 -29.760  1.00 54.39      GS7
ATOM  40526  CA  ARG G 102     235.870 134.660 -28.962  1.00 54.39      GS7
ATOM  40527  CB  ARG G 102     234.507 133.979 -28.932  1.00 73.38      GS7
ATOM  40528  CG  ARG G 102     234.407 132.859 -27.907  1.00 73.38      GS7
ATOM  40529  CD  ARG G 102     233.010 132.264 -27.903  1.00 73.38      GS7
ATOM  40530  NE  ARG G 102     232.000 133.295 -27.696  1.00 73.38      GS7
ATOM  40531  CZ  ARG G 102     230.747 133.204 -28.123  1.00 73.38      GS7
ATOM  40532  NH1 ARG G 102     230.351 132.122 -28.777  1.00 73.38      GS7
ATOM  40533  NH2 ARG G 102     229.900 134.203 -27.919  1.00 73.38      GS7
ATOM  40534  C   ARG G 102     236.902 133.717 -29.557  1.00 54.39      GS7
ATOM  40535  O   ARG G 102     237.854 133.328 -28.884  1.00 54.39      GS7
ATOM  40536  N   TRP G 103     236.719 133.380 -30.830  1.00 53.57      GS7
ATOM  40537  CA  TRP G 103     237.618 132.471 -31.528  1.00 53.57      GS7
ATOM  40538  CB  TRP G 103     237.178 132.298 -32.985  1.00 54.27      GS7
ATOM  40539  CG  TRP G 103     235.903 131.536 -33.154  1.00 54.27      GS7
ATOM  40540  CD2 TRP G 103     235.035 131.563 -34.289  1.00 54.27      GS7
ATOM  40541  CE2 TRP G 103     233.962 130.689 -34.016  1.00 54.27      GS7
ATOM  40542  CE3 TRP G 103     235.060 132.237 -35.513  1.00 54.27      GS7
ATOM  40543  CD1 TRP G 103     235.343 130.669 -32.265  1.00 54.27      GS7
ATOM  40544  NE1 TRP G 103     234.173 130.158 -32.773  1.00 54.27      GS7
ATOM  40545  CZ2 TRP G 103     232.919 130.472 -34.923  1.00 54.27      GS7
ATOM  40546  CZ3 TRP G 103     234.018 132.018 -36.421  1.00 54.27      GS7
ATOM  40547  CH2 TRP G 103     232.963 131.142 -36.117  1.00 54.27      GS7
ATOM  40548  C   TRP G 103     239.090 132.879 -31.488  1.00 53.57      GS7
ATOM  40549  O   TRP G 103     239.970 132.019 -31.381  1.00 53.57      GS7
ATOM  40550  N   LEU G 104     239.370 134.175 -31.596  1.00 30.65      GS7
ATOM  40551  CA  LEU G 104     240.752 134.626 -31.541  1.00 30.65      GS7
ATOM  40552  CB  LEU G 104     240.819 136.134 -31.677  1.00 56.91      GS7
ATOM  40553  CG  LEU G 104     240.458 136.482 -33.118  1.00 56.91      GS7
ATOM  40554  CD1 LEU G 104     240.122 137.950 -33.259  1.00 56.91      GS7
ATOM  40555  CD2 LEU G 104     241.622 136.103 -34.006  1.00 56.91      GS7
ATOM  40556  C   LEU G 104     241.325 134.173 -30.218  1.00 30.65      GS7
ATOM  40557  O   LEU G 104     242.153 133.275 -30.181  1.00 30.65      GS7
ATOM  40558  N   VAL G 105     240.870 134.748 -29.117  1.00 41.20      GS7
ATOM  40559  CA  VAL G 105     241.409 134.312 -27.839  1.00 41.20      GS7
ATOM  40560  CB  VAL G 105     240.617 134.835 -26.650  1.00 45.11      GS7
ATOM  40561  CG1 VAL G 105     241.295 134.383 -25.346  1.00 45.11      GS7
ATOM  40562  CG2 VAL G 105     240.540 136.351 -26.723  1.00 45.11      GS7
ATOM  40563  C   VAL G 105     241.438 132.804 -27.733  1.00 41.20      GS7
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ATOM  40564  O   VAL G 105     242.371 132.248 -27.167  1.00 41.20      GS7
ATOM  40565  N   GLN G 106     240.421 132.138 -28.266  1.00 49.79      GS7
ATOM  40566  CA  GLN G 106     240.389 130.684 -28.208  1.00 49.79      GS7
ATOM  40567  CB  GLN G 106     239.114 130.146 -28.857  1.00169.09      GS7
ATOM  40568  CG  GLN G 106     237.865 130.335 -28.020  1.00169.09      GS7
ATOM  40569  CD  GLN G 106     236.656 129.643 -28.616  1.00169.09      GS7
ATOM  40570  OE1 GLN G 106     235.584 129.618 -28.011  1.00169.09      GS7
ATOM  40571  NE2 GLN G 106     236.819 129.079 -29.809  1.00169.09      GS7
ATOM  40572  C   GLN G 106     241.606 130.113 -28.930  1.00 49.79      GS7
ATOM  40573  O   GLN G 106     242.500 129.512 -28.314  1.00 49.79      GS7
ATOM  40574  N   ALA G 107     241.624 130.318 -30.243  1.00 59.29      GS7
ATOM  40575  CA  ALA G 107     242.694 129.849 -31.111  1.00 59.29      GS7
ATOM  40576  CB  ALA G 107     242.455 130.353 -32.521  1.00 53.57      GS7
ATOM  40577  C   ALA G 107     244.058 130.308 -30.623  1.00 59.29      GS7
ATOM  40578  O   ALA G 107     245.003 129.527 -30.551  1.00 59.29      GS7
ATOM  40579  N   ALA G 108     244.155 131.588 -30.298  1.00 51.41      GS7
ATOM  40580  CA  ALA G 108     245.405 132.151 -29.821  1.00 51.41      GS7
ATOM  40581  CB  ALA G 108     245.186 133.601 -29.379  1.00 18.67      GS7
ATOM  40582  C   ALA G 108     245.921 131.309 -28.661  1.00 51.41      GS7
ATOM  40583  O   ALA G 108     247.044 130.815 -28.686  1.00 51.41      GS7
ATOM  40584  N   ASN G 109     245.083 131.132 -27.650  1.00 56.93      GS7
ATOM  40585  CA  ASN G 109     245.463 130.356 -26.489  1.00 56.93      GS7
ATOM  40586  CB  ASN G 109     244.436 130.542 -25.389  1.00 76.21      GS7
ATOM  40587  CG  ASN G 109     244.955 131.397 -24.271  1.00 76.21      GS7
ATOM  40588  OD1 ASN G 109     245.757 130.944 -23.454  1.00 76.21      GS7
ATOM  40589  ND2 ASN G 109     244.519 132.649 -24.233  1.00 76.21      GS7
ATOM  40590  C   ASN G 109     245.642 128.879 -26.782  1.00 56.93      GS7
ATOM  40591  O   ASN G 109     245.614 128.049 -25.872  1.00 56.93      GS7
ATOM  40592  N   GLN G 110     245.821 128.551 -28.055  1.00 62.95      GS7
ATOM  40593  CA  GLN G 110     246.035 127.170 -28.458  1.00 62.95      GS7
ATOM  40594  CB  GLN G 110     245.129 126.807 -29.633  1.00154.37      GS7
ATOM  40595  CG  GLN G 110     243.672 126.662 -29.248  1.00154.37      GS7
ATOM  40596  CD  GLN G 110     243.441 125.507 -28.293  1.00154.37      GS7
ATOM  40597  OE1 GLN G 110     244.024 125.454 -27.206  1.00154.37      GS7
ATOM  40598  NE2 GLN G 110     242.587 124.570 -28.696  1.00154.37      GS7
ATOM  40599  C   GLN G 110     247.489 127.013 -28.861  1.00 62.95      GS7
ATOM  40600  O   GLN G 110     248.111 125.983 -28.600  1.00 62.95      GS7
ATOM  40601  N   ARG G 111     248.025 128.056 -29.488  1.00 67.55      GS7
ATOM  40602  CA  ARG G 111     249.407 128.061 -29.938  1.00 67.55      GS7
ATOM  40603  CB  ARG G 111     249.797 129.454 -30.423  1.00 63.29      GS7
ATOM  40604  CG  ARG G 111     248.844 130.048 -31.426  1.00 63.29      GS7
ATOM  40605  CD  ARG G 111     249.130 131.522 -31.628  1.00 63.29      GS7
ATOM  40606  NE  ARG G 111     250.291 131.769 -32.478  1.00 63.29      GS7
ATOM  40607  CZ  ARG G 111     250.298 131.605 -33.798  1.00 63.29      GS7
ATOM  40608  NH1 ARG G 111     249.209 131.189 -34.424  1.00 63.29      GS7
ATOM  40609  NH2 ARG G 111     251.389 131.874 -34.501  1.00 63.29      GS7
ATOM  40610  C   ARG G 111     250.355 127.632 -28.821  1.00 67.55      GS7
ATOM  40611  O   ARG G 111     250.019 127.708 -27.635  1.00 67.55      GS7
ATOM  40612  N   PRO G 112     251.557 127.166 -29.199  1.00 58.04      GS7
ATOM  40613  CD  PRO G 112     251.825 126.781 -30.591  1.00 28.69      GS7
ATOM  40614  CA  PRO G 112     252.644 126.693 -28.339  1.00 58.04      GS7
ATOM  40615  CB  PRO G 112     253.480 125.861 -29.287  1.00 28.69      GS7
ATOM  40616  CG  PRO G 112     253.300 126.551 -30.563  1.00 28.69      GS7
ATOM  40617  C   PRO G 112     253.496 127.730 -27.622  1.00 58.04      GS7
ATOM  40618  O   PRO G 112     254.110 127.408 -26.612  1.00 58.04      GS7
ATOM  40619  N   GLU G 113     253.563 128.956 -28.135  1.00 42.03      GS7
ATOM  40620  CA  GLU G 113     254.367 129.981 -27.469  1.00 42.03      GS7
ATOM  40621  CB  GLU G 113     254.229 131.330 -28.177  1.00 76.68      GS7
ATOM  40622  CG  GLU G 113     253.087 131.413 -29.163  1.00 76.68      GS7
ATOM  40623  CD  GLU G 113     253.406 130.737 -30.473  1.00 76.68      GS7
ATOM  40624  OE1 GLU G 113     254.357 131.180 -31.151  1.00 76.68      GS7
ATOM  40625  OE2 GLU G 113     252.707 129.766 -30.827  1.00 76.68      GS7
ATOM  40626  C   GLU G 113     253.962 130.125 -26.000  1.00 42.03      GS7
ATOM  40627  O   GLU G 113     252.798 130.374 -25.693  1.00 42.03      GS7
ATOM  40628  N   ARG G 114     254.933 129.973 -25.100  1.00 52.17      GS7
ATOM  40629  CA  ARG G 114     254.696 130.054 -23.660  1.00 52.17      GS7
ATOM  40630  CB  ARG G 114     255.994 129.766 -22.900  1.00 74.41      GS7
ATOM  40631  CG  ARG G 114     256.772 128.525 -23.323  1.00 74.41      GS7
ATOM  40632  CD  ARG G 114     257.876 128.277 -22.293  1.00 74.41      GS7
ATOM  40633  NE  ARG G 114     258.840 127.224 -22.623  1.00 74.41      GS7
ATOM  40634  CZ  ARG G 114     258.523 125.983 -22.983  1.00 74.41      GS7
ATOM  40635  NH1 ARG G 114     257.251 125.612 -23.081  1.00 74.41      GS7
ATOM  40636  NH2 ARG G 114     259.483 125.097 -23.218  1.00 74.41      GS7
ATOM  40637  C   ARG G 114     254.118 131.386 -23.148  1.00 52.17      GS7
ATOM  40638  O   ARG G 114     253.307 131.398 -22.227  1.00 52.17      GS7
ATOM  40639  N   ARG G 115     254.537 132.504 -23.732  1.00 50.18      GS7
ATOM  40640  CA  ARG G 115     254.060 133.817 -23.295  1.00 50.18      GS7
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ATOM  40641  CB  ARG G 115     255.034 134.913 -23.728  1.00137.58      GS7
ATOM  40642  CG  ARG G 115     256.415 134.818 -23.108  1.00137.58      GS7
ATOM  40643  CD  ARG G 115     257.333 135.876 -23.696  1.00137.58      GS7
ATOM  40644  NE  ARG G 115     256.834 137.225 -23.451  1.00137.58      GS7
ATOM  40645  CZ  ARG G 115     257.312 138.316 -24.041  1.00137.58      GS7
ATOM  40646  NH1 ARG G 115     258.303 138.219 -24.917  1.00137.58      GS7
ATOM  40647  NH2 ARG G 115     256.800 139.506 -23.753  1.00137.58      GS7
ATOM  40648  C   ARG G 115     252.670 134.174 -23.806  1.00 50.18      GS7
ATOM  40649  O   ARG G 115     252.387 134.132 -25.007  1.00 50.18      GS7
ATOM  40650  N   ALA G 116     251.808 134.549 -22.875  1.00 61.58      GS7
ATOM  40651  CA  ALA G 116     250.454 134.918 -23.210  1.00 61.58      GS7
ATOM  40652  CB  ALA G 116     249.775 135.522 -21.997  1.00117.71      GS7
ATOM  40653  C   ALA G 116     250.394 135.891 -24.386  1.00 61.58      GS7
ATOM  40654  O   ALA G 116     249.832 135.562 -25.436  1.00 61.58      GS7
ATOM  40655  N   ALA G 117     250.984 137.075 -24.221  1.00 52.91      GS7
ATOM  40656  CA  ALA G 117     250.944 138.107 -25.268  1.00 52.91      GS7
ATOM  40657  CB  ALA G 117     251.648 139.365 -24.790  1.00 38.12      GS7
ATOM  40658  C   ALA G 117     251.483 137.705 -26.639  1.00 52.91      GS7
ATOM  40659  O   ALA G 117     251.067 138.254 -27.660  1.00 52.91      GS7
ATOM  40660  N   VAL G 118     252.409 136.756 -26.666  1.00 51.66      GS7
ATOM  40661  CA  VAL G 118     252.966 136.304 -27.933  1.00 51.66      GS7
ATOM  40662  CB  VAL G 118     254.171 135.378 -27.701  1.00 43.12      GS7
ATOM  40663  CG1 VAL G 118     254.835 135.023 -29.028  1.00 43.12      GS7
ATOM  40664  CG2 VAL G 118     255.145 136.051 -26.752  1.00 43.12      GS7
ATOM  40665  C   VAL G 118     251.881 135.546 -28.687  1.00 51.66      GS7
ATOM  40666  O   VAL G 118     251.613 135.824 -29.863  1.00 51.66      GS7
ATOM  40667  N   ARG G 119     251.256 134.590 -28.001  1.00 54.15      GS7
ATOM  40668  CA  ARG G 119     250.189 133.806 -28.603  1.00 54.15      GS7
ATOM  40669  CB  ARG G 119     249.551 132.874 -27.585  1.00 57.25      GS7
ATOM  40670  CG  ARG G 119     250.409 131.720 -27.148  1.00 57.25      GS7
ATOM  40671  CD  ARG G 119     249.561 130.763 -26.345  1.00 57.25      GS7
ATOM  40672  NE  ARG G 119     248.907 131.451 -25.235  1.00 57.25      GS7
ATOM  40673  CZ  ARG G 119     249.448 131.620 -24.030  1.00 57.25      GS7
ATOM  40674  NH1 ARG G 119     250.658 131.143 -23.762  1.00 57.25      GS7
ATOM  40675  NH2 ARG G 119     248.785 132.285 -23.093  1.00 57.25      GS7
ATOM  40676  C   ARG G 119     249.118 134.739 -29.139  1.00 54.15      GS7
ATOM  40677  O   ARG G 119     248.628 134.557 -30.257  1.00 54.15      GS7
ATOM  40678  N   ILE G 120     248.746 135.738 -28.344  1.00 41.72      GS7
ATOM  40679  CA  ILE G 120     247.727 136.669 -28.795  1.00 41.72      GS7
ATOM  40680  CB  ILE G 120     247.380 137.687 -27.727  1.00 41.47      GS7
ATOM  40681  CG2 ILE G 120     246.288 138.613 -28.261  1.00 41.47      GS7
ATOM  40682  CG1 ILE G 120     246.919 136.973 -26.452  1.00 41.47      GS7
ATOM  40683  CD1 ILE G 120     245.532 136.322 -26.558  1.00 41.47      GS7
ATOM  40684  C   ILE G 120     248.187 137.429 -30.033  1.00 41.72      GS7
ATOM  40685  O   ILE G 120     247.446 137.558 -31.017  1.00 41.72      GS7
ATOM  40686  N   ALA G 121     249.419 137.927 -29.980  1.00 62.18      GS7
ATOM  40687  CA  ALA G 121     249.987 138.681 -31.089  1.00 62.18      GS7
ATOM  40688  CB  ALA G 121     251.349 139.222 -30.698  1.00 38.70      GS7
ATOM  40689  C   ALA G 121     250.104 137.815 -32.335  1.00 62.18      GS7
ATOM  40690  O   ALA G 121     249.649 138.196 -33.415  1.00 62.18      GS7
ATOM  40691  N   HIS G 122     250.708 136.644 -32.177  1.00 70.83      GS7
ATOM  40692  CA  HIS G 122     250.886 135.732 -33.297  1.00 70.83      GS7
ATOM  40693  CB  HIS G 122     251.770 134.559 -32.871  1.00 87.66      GS7
ATOM  40694  CG  HIS G 122     253.201 134.944 -32.652  1.00 87.66      GS7
ATOM  40695  CD2 HIS G 122     253.862 136.096 -32.919  1.00 87.66      GS7
ATOM  40696  ND1 HIS G 122     254.131 134.089 -32.098  1.00 87.66      GS7
ATOM  40697  CE1 HIS G 122     255.301 134.699 -32.033  1.00 87.66      GS7
ATOM  40698  NE2 HIS G 122     255.166 135.918 -32.523  1.00 87.66      GS7
ATOM  40699  C   HIS G 122     249.561 135.241 -33.873  1.00 70.83      GS7
ATOM  40700  O   HIS G 122     249.459 134.969 -35.070  1.00 70.83      GS7
ATOM  40701  N   GLU G 123     248.536 135.131 -33.036  1.00 51.91      GS7
ATOM  40702  CA  GLU G 123     247.262 134.692 -33.559  1.00 51.91      GS7
ATOM  40703  CB  GLU G 123     246.303 134.275 -32.449  1.00 63.26      GS7
ATOM  40704  CG  GLU G 123     245.034 133.609 -32.987  1.00 63.26      GS7
ATOM  40705  CD  GLU G 123     245.332 132.387 -33.853  1.00 63.26      GS7
ATOM  40706  OE1 GLU G 123     244.385 131.777 -34.394  1.00 63.26      GS7
ATOM  40707  OE2 GLU G 123     246.517 132.028 -33.996  1.00 63.26      GS7
ATOM  40708  C   GLU G 123     246.688 135.856 -34.335  1.00 51.91      GS7
ATOM  40709  O   GLU G 123     246.027 135.658 -35.350  1.00 51.91      GS7
ATOM  40710  N   LEU G 124     246.947 137.075 -33.864  1.00 40.12      GS7
ATOM  40711  CA  LEU G 124     246.447 138.251 -34.569  1.00 40.12      GS7
ATOM  40712  CB  LEU G 124     246.659 139.526 -33.747  1.00 57.44      GS7
ATOM  40713  CG  LEU G 124     245.837 139.650 -32.465  1.00 57.44      GS7
ATOM  40714  CD1 LEU G 124     245.895 141.071 -31.954  1.00 57.44      GS7
ATOM  40715  CD2 LEU G 124     244.400 139.294 -32.746  1.00 57.44      GS7
ATOM  40716  C   LEU G 124     247.183 138.370 -35.896  1.00 40.12      GS7
ATOM  40717  O   LEU G 124     246.578 138.584 -36.949  1.00 40.12      GS7
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ATOM  40718  N   MET G 125     248.500 138.219 -35.840  1.00 50.80      GS7
ATOM  40719  CA  MET G 125     249.296 138.312 -37.041  1.00 50.80      GS7
ATOM  40720  CB  MET G 125     250.769 138.081 -36.713  1.00117.19      GS7
ATOM  40721  CG  MET G 125     251.381 139.238 -35.925  1.00117.19      GS7
ATOM  40722  SD  MET G 125     253.087 138.989 -35.392  1.00117.19      GS7
ATOM  40723  CE  MET G 125     252.916 139.095 -33.627  1.00117.19      GS7
ATOM  40724  C   MET G 125     248.764 137.281 -38.013  1.00 50.80      GS7
ATOM  40725  O   MET G 125     248.171 137.640 -39.028  1.00 50.80      GS7
ATOM  40726  N   ASP G 126     248.936 136.005 -37.687  1.00 48.83      GS7
ATOM  40727  CA  ASP G 126     248.458 134.930 -38.553  1.00 48.83      GS7
ATOM  40728  CB  ASP G 126     248.601 133.587 -37.832  1.00103.69      GS7
ATOM  40729  CG  ASP G 126     250.041 133.088 -37.814  1.00103.69      GS7
ATOM  40730  OD1 ASP G 126     250.961 133.897 -38.074  1.00103.69      GS7
ATOM  40731  OD2 ASP G 126     250.257 131.888 -37.534  1.00103.69      GS7
ATOM  40732  C   ASP G 126     247.002 135.156 -38.998  1.00 48.83      GS7
ATOM  40733  O   ASP G 126     246.573 134.686 -40.067  1.00 48.83      GS7
ATOM  40734  N   ALA G 127     246.254 135.892 -38.178  1.00 55.81      GS7
ATOM  40735  CA  ALA G 127     244.865 136.194 -38.474  1.00 55.81      GS7
ATOM  40736  CB  ALA G 127     244.226 136.920 -37.307  1.00118.33      GS7
ATOM  40737  C   ALA G 127     244.801 137.053 -39.719  1.00 55.81      GS7
ATOM  40738  O   ALA G 127     244.295 136.619 -40.745  1.00 55.81      GS7
ATOM  40739  N   ALA G 128     245.317 138.274 -39.634  1.00 78.11      GS7
ATOM  40740  CA  ALA G 128     245.302 139.165 -40.788  1.00 78.11      GS7
ATOM  40741  CB  ALA G 128     246.071 140.438 -40.480  1.00 62.20      GS7
ATOM  40742  C   ALA G 128     245.919 138.450 -41.986  1.00 78.11      GS7
ATOM  40743  O   ALA G 128     245.444 138.589 -43.115  1.00 78.11      GS7
ATOM  40744  N   GLU G 129     246.974 137.679 -41.726  1.00 81.82      GS7
ATOM  40745  CA  GLU G 129     247.661 136.922 -42.769  1.00 81.82      GS7
ATOM  40746  CB  GLU G 129     248.753 136.043 -42.155  1.00185.82      GS7
ATOM  40747  CG  GLU G 129     249.882 136.806 -41.475  1.00185.82      GS7
ATOM  40748  CD  GLU G 129     250.800 137.507 -42.459  1.00185.82      GS7
ATOM  40749  OE1 GLU G 129     251.381 136.818 -43.325  1.00185.82      GS7
ATOM  40750  OE2 GLU G 129     250.944 138.745 -42.364  1.00185.82      GS7
ATOM  40751  C   GLU G 129     246.653 136.042 -43.499  1.00 81.82      GS7
ATOM  40752  O   GLU G 129     246.674 135.935 -44.725  1.00 81.82      GS7
ATOM  40753  N   GLY G 130     245.771 135.409 -42.732  1.00 65.11      GS7
ATOM  40754  CA  GLY G 130     244.759 134.555 -43.324  1.00 65.11      GS7
ATOM  40755  C   GLY G 130     244.866 133.122 -42.858  1.00 65.11      GS7
ATOM  40756  O   GLY G 130     244.158 132.244 -43.359  1.00 65.11      GS7
ATOM  40757  N   LYS G 131     245.754 132.891 -41.894  1.00 69.02      GS7
ATOM  40758  CA  LYS G 131     245.980 131.557 -41.349  1.00 69.02      GS7
ATOM  40759  CB  LYS G 131     247.439 131.152 -41.572  1.00132.22      GS7
ATOM  40760  CG  LYS G 131     248.436 132.206 -41.105  1.00132.22      GS7
ATOM  40761  CD  LYS G 131     249.867 131.906 -41.562  1.00132.22      GS7
ATOM  40762  CE  LYS G 131     250.838 133.018 -41.137  1.00132.22      GS7
ATOM  40763  NZ  LYS G 131     252.236 132.822 -41.627  1.00132.22      GS7
ATOM  40764  C   LYS G 131     245.650 131.530 -39.865  1.00 69.02      GS7
ATOM  40765  O   LYS G 131     245.190 132.524 -39.302  1.00 69.02      GS7
ATOM  40766  N   GLY G 132     245.872 130.384 -39.235  1.00 87.16      GS7
ATOM  40767  CA  GLY G 132     245.598 130.276 -37.816  1.00 87.16      GS7
ATOM  40768  C   GLY G 132     244.303 129.576 -37.456  1.00 87.16      GS7
ATOM  40769  O   GLY G 132     243.287 129.733 -38.135  1.00 87.16      GS7
ATOM  40770  N   GLY G 133     244.351 128.813 -36.365  1.00 51.72      GS7
ATOM  40771  CA  GLY G 133     243.191 128.071 -35.895  1.00 51.72      GS7
ATOM  40772  C   GLY G 133     241.895 128.853 -35.897  1.00 51.72      GS7
ATOM  40773  O   GLY G 133     240.833 128.313 -36.218  1.00 51.72      GS7
ATOM  40774  N   ALA G 134     241.981 130.128 -35.535  1.00 36.51      GS7
ATOM  40775  CA  ALA G 134     240.800 130.967 -35.504  1.00 36.51      GS7
ATOM  40776  CB  ALA G 134     241.170 132.392 -35.171  1.00 59.73      GS7
ATOM  40777  C   ALA G 134     240.180 130.897 -36.880  1.00 36.51      GS7
ATOM  40778  O   ALA G 134     239.131 130.278 -37.073  1.00 36.51      GS7
ATOM  40779  N   VAL G 135     240.850 131.512 -37.846  1.00 40.50      GS7
ATOM  40780  CA  VAL G 135     240.356 131.514 -39.214  1.00 40.50      GS7
ATOM  40781  CB  VAL G 135     241.422 131.970 -40.198  1.00 34.63      GS7
ATOM  40782  CG1 VAL G 135     241.170 131.298 -41.540  1.00 34.63      GS7
ATOM  40783  CG2 VAL G 135     241.391 133.499 -40.343  1.00 34.63      GS7
ATOM  40784  C   VAL G 135     239.893 130.142 -39.650  1.00 40.50      GS7
ATOM  40785  O   VAL G 135     238.873 130.023 -40.317  1.00 40.50      GS7
ATOM  40786  N   LYS G 136     240.649 129.111 -39.282  1.00 54.54      GS7
ATOM  40787  CA  LYS G 136     240.282 127.755 -39.653  1.00 54.54      GS7
ATOM  40788  CB  LYS G 136     241.165 126.731 -38.943  1.00 84.65      GS7
ATOM  40789  CG  LYS G 136     241.306 125.413 -39.713  1.00 84.65      GS7
ATOM  40790  CD  LYS G 136     240.443 124.290 -39.149  1.00 84.65      GS7
ATOM  40791  CE  LYS G 136     241.164 123.476 -38.076  1.00 84.65      GS7
ATOM  40792  NZ  LYS G 136     241.462 124.246 -36.837  1.00 84.65      GS7
ATOM  40793  C   LYS G 136     238.829 127.543 -39.271  1.00 54.54      GS7
ATOM  40794  O   LYS G 136     238.005 127.224 -40.129  1.00 54.54      GS7
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ATOM  40795  N   LYS G 137     238.510 127.740 -37.992  1.00 69.16      GS7
ATOM  40796  CA  LYS G 137     237.133 127.579 -37.527  1.00 69.16      GS7
ATOM  40797  CB  LYS G 137     236.986 128.072 -36.083  1.00108.92      GS7
ATOM  40798  CG  LYS G 137     237.879 127.325 -35.099  1.00108.92      GS7
ATOM  40799  CD  LYS G 137     237.585 127.673 -33.634  1.00108.92      GS7
ATOM  40800  CE  LYS G 137     238.504 126.891 -32.685  1.00108.92      GS7
ATOM  40801  NZ  LYS G 137     238.084 126.981 -31.260  1.00108.92      GS7
ATOM  40802  C   LYS G 137     236.196 128.358 -38.449  1.00 69.16      GS7
ATOM  40803  O   LYS G 137     235.304 127.783 -39.077  1.00 69.16      GS7
ATOM  40804  N   LYS G 138     236.410 129.665 -38.547  1.00 62.65      GS7
ATOM  40805  CA  LYS G 138     235.576 130.487 -39.411  1.00 62.65      GS7
ATOM  40806  CB  LYS G 138     236.233 131.854 -39.637  1.00 57.39      GS7
ATOM  40807  CG  LYS G 138     235.551 132.746 -40.678  1.00 57.39      GS7
ATOM  40808  CD  LYS G 138     236.139 132.539 -42.075  1.00 57.39      GS7
ATOM  40809  CE  LYS G 138     235.616 133.584 -43.061  1.00 57.39      GS7
ATOM  40810  NZ  LYS G 138     236.214 133.453 -44.422  1.00 57.39      GS7
ATOM  40811  C   LYS G 138     235.374 129.772 -40.739  1.00 62.65      GS7
ATOM  40812  O   LYS G 138     234.355 129.935 -41.400  1.00 62.65      GS7
ATOM  40813  N   GLU G 139     236.344 128.957 -41.119  1.00 46.20      GS7
ATOM  40814  CA  GLU G 139     236.243 128.247 -42.374  1.00 46.20      GS7
ATOM  40815  CB  GLU G 139     237.632 128.027 -42.964  1.00128.41      GS7
ATOM  40816  CG  GLU G 139     238.385 129.335 -43.122  1.00128.41      GS7
ATOM  40817  CD  GLU G 139     239.607 129.215 -43.997  1.00128.41      GS7
ATOM  40818  OE1 GLU G 139     240.397 128.268 -43.783  1.00128.41      GS7
ATOM  40819  OE2 GLU G 139     239.778 130.075 -44.890  1.00128.41      GS7
ATOM  40820  C   GLU G 139     235.499 126.941 -42.204  1.00 46.20      GS7
ATOM  40821  O   GLU G 139     234.549 126.687 -42.935  1.00 46.20      GS7
ATOM  40822  N   ASP G 140     235.906 126.116 -41.243  1.00 66.11      GS7
ATOM  40823  CA  ASP G 140     235.218 124.846 -41.007  1.00 66.11      GS7
ATOM  40824  CB  ASP G 140     235.781 124.161 -39.765  1.00182.01      GS7
ATOM  40825  CG  ASP G 140     237.175 123.633 -39.986  1.00182.01      GS7
ATOM  40826  OD1 ASP G 140     238.021 124.405 -40.483  1.00182.01      GS7
ATOM  40827  OD2 ASP G 140     237.424 122.452 -39.665  1.00182.01      GS7
ATOM  40828  C   ASP G 140     233.723 125.100 -40.827  1.00 66.11      GS7
ATOM  40829  O   ASP G 140     232.886 124.252 -41.152  1.00 66.11      GS7
ATOM  40830  N   VAL G 141     233.400 126.284 -40.316  1.00 57.44      GS7
ATOM  40831  CA  VAL G 141     232.020 126.684 -40.096  1.00 57.44      GS7
ATOM  40832  CB  VAL G 141     231.943 127.943 -39.216  1.00 60.92      GS7
ATOM  40833  CG1 VAL G 141     230.538 128.527 -39.254  1.00 60.92      GS7
ATOM  40834  CG2 VAL G 141     232.331 127.589 -37.786  1.00 60.92      GS7
ATOM  40835  C   VAL G 141     231.357 126.973 -41.424  1.00 57.44      GS7
ATOM  40836  O   VAL G 141     230.468 126.241 -41.845  1.00 57.44      GS7
ATOM  40837  N   GLU G 142     231.791 128.042 -42.084  1.00 42.97      GS7
ATOM  40838  CA  GLU G 142     231.222 128.410 -43.374  1.00 42.97      GS7
ATOM  40839  CB  GLU G 142     232.092 129.460 -44.058  1.00120.70      GS7
ATOM  40840  CG  GLU G 142     232.103 130.787 -43.325  1.00120.70      GS7
ATOM  40841  CD  GLU G 142     232.681 131.910 -44.157  1.00120.70      GS7
ATOM  40842  OE1 GLU G 142     232.740 133.051 -43.653  1.00120.70      GS7
ATOM  40843  OE2 GLU G 142     233.071 131.655 -45.318  1.00120.70      GS7
ATOM  40844  C   GLU G 142     231.053 127.187 -44.272  1.00 42.97      GS7
ATOM  40845  O   GLU G 142     230.115 127.112 -45.065  1.00 42.97      GS7
ATOM  40846  N   ARG G 143     231.958 126.222 -44.131  1.00 62.02      GS7
ATOM  40847  CA  ARG G 143     231.894 124.994 -44.912  1.00 62.02      GS7
ATOM  40848  CB  ARG G 143     233.096 124.101 -44.608  1.00200.96      GS7
ATOM  40849  CG  ARG G 143     234.418 124.662 -45.087  1.00200.96      GS7
ATOM  40850  CD  ARG G 143     235.580 123.832 -44.575  1.00200.96      GS7
ATOM  40851  NE  ARG G 143     236.867 124.401 -44.966  1.00200.96      GS7
ATOM  40852  CZ  ARG G 143     238.042 123.976 -44.512  1.00200.96      GS7
ATOM  40853  NH1 ARG G 143     238.096 122.974 -43.644  1.00200.96      GS7
ATOM  40854  NH2 ARG G 143     239.164 124.553 -44.923  1.00200.96      GS7
ATOM  40855  C   ARG G 143     230.612 124.248 -44.580  1.00 62.02      GS7
ATOM  40856  O   ARG G 143     229.944 123.745 -45.474  1.00 62.02      GS7
ATOM  40857  N   MET G 144     230.282 124.170 -43.292  1.00 48.94      GS7
ATOM  40858  CA  MET G 144     229.072 123.489 -42.841  1.00 48.94      GS7
ATOM  40859  CB  MET G 144     228.861 123.723 -41.351  1.00 94.47      GS7
ATOM  40860  CG  MET G 144     229.810 122.933 -40.478  1.00 94.47      GS7
ATOM  40861  SD  MET G 144     229.245 121.252 -40.194  1.00 94.47      GS7
ATOM  40862  CE  MET G 144     229.409 121.156 -38.401  1.00 94.47      GS7
ATOM  40863  C   MET G 144     227.873 123.996 -43.623  1.00 48.94      GS7
ATOM  40864  O   MET G 144     227.108 123.208 -44.176  1.00 48.94      GS7
ATOM  40865  N   ALA G 145     227.691 125.310 -43.667  1.00 63.39      GS7
ATOM  40866  CA  ALA G 145     226.593 125.854 -44.455  1.00 63.39      GS7
ATOM  40867  CB  ALA G 145     226.580 127.369 -44.354  1.00 86.72      GS7
ATOM  40868  C   ALA G 145     226.977 125.410 -45.865  1.00 63.39      GS7
ATOM  40869  O   ALA G 145     228.044 124.839 -46.045  1.00 63.39      GS7
ATOM  40870  N   GLU G 146     226.160 125.672 -46.875  1.00143.49      GS7
ATOM  40871  CA  GLU G 146     226.529 125.225 -48.219  1.00143.49      GS7
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ATOM  40872  CB  GLU G 146     227.957 125.652 -48.574  1.00135.30      GS7
ATOM  40873  CG  GLU G 146     228.203 127.142 -48.570  1.00135.30      GS7
ATOM  40874  CD  GLU G 146     227.462 127.844 -49.685  1.00135.30      GS7
ATOM  40875  OE1 GLU G 146     227.593 127.396 -50.845  1.00135.30      GS7
ATOM  40876  OE2 GLU G 146     226.756 128.840 -49.404  1.00135.30      GS7
ATOM  40877  C   GLU G 146     226.486 123.708 -48.180  1.00143.49      GS7
ATOM  40878  O   GLU G 146     225.694 123.072 -48.872  1.00143.49      GS7
ATOM  40879  N   ALA G 147     227.356 123.138 -47.353  1.00 59.83      GS7
ATOM  40880  CA  ALA G 147     227.445 121.696 -47.180  1.00 59.83      GS7
ATOM  40881  CB  ALA G 147     228.576 121.353 -46.224  1.00101.48      GS7
ATOM  40882  C   ALA G 147     226.129 121.188 -46.631  1.00 59.83      GS7
ATOM  40883  O   ALA G 147     225.975 120.003 -46.348  1.00 59.83      GS7
ATOM  40884  N   ASN G 148     225.188 122.111 -46.474  1.00 57.89      GS7
ATOM  40885  CA  ASN G 148     223.859 121.807 -45.974  1.00 57.89      GS7
ATOM  40886  CB  ASN G 148     223.797 122.089 -44.478  1.00 69.62      GS7
ATOM  40887  CG  ASN G 148     224.420 120.977 -43.660  1.00 69.62      GS7
ATOM  40888  OD1 ASN G 148     223.838 119.906 -43.525  1.00 69.62      GS7
ATOM  40889  ND2 ASN G 148     225.611 121.218 -43.126  1.00 69.62      GS7
ATOM  40890  C   ASN G 148     222.861 122.661 -46.733  1.00 57.89      GS7
ATOM  40891  O   ASN G 148     221.701 122.786 -46.351  1.00 57.89      GS7
ATOM  40892  N   ARG G 149     223.341 123.251 -47.819  1.00 70.00      GS7
ATOM  40893  CA  ARG G 149     222.523 124.091 -48.670  1.00 70.00      GS7
ATOM  40894  CB  ARG G 149     223.210 124.277 -50.019  1.00 94.60      GS7
ATOM  40895  CG  ARG G 149     223.807 125.647 -50.242  1.00 94.60      GS7
ATOM  40896  CD  ARG G 149     222.731 126.630 -50.650  1.00 94.60      GS7
ATOM  40897  NE  ARG G 149     223.280 127.895 -51.138  1.00 94.60      GS7
ATOM  40898  CZ  ARG G 149     224.082 128.020 -52.195  1.00 94.60      GS7
ATOM  40899  NH1 ARG G 149     224.449 126.952 -52.894  1.00 94.60      GS7
ATOM  40900  NH2 ARG G 149     224.509 129.221 -52.565  1.00 94.60      GS7
ATOM  40901  C   ARG G 149     221.164 123.441 -48.872  1.00 70.00      GS7
ATOM  40902  O   ARG G 149     220.139 124.114 -48.849  1.00 70.00      GS7
ATOM  40903  N   ALA G 150     221.152 122.127 -49.055  1.00 60.02      GS7
ATOM  40904  CA  ALA G 150     219.898 121.419 -49.277  1.00 60.02      GS7
ATOM  40905  CB  ALA G 150     220.151 119.916 -49.320  1.00 56.13      GS7
ATOM  40906  C   ALA G 150     218.825 121.744 -48.230  1.00 60.02      GS7
ATOM  40907  O   ALA G 150     217.645 121.877 -48.557  1.00 60.02      GS7
ATOM  40908  N   TYR G 151     219.241 121.895 -46.980  1.00 60.59      GS7
ATOM  40909  CA  TYR G 151     218.316 122.175 -45.889  1.00 60.59      GS7
ATOM  40910  CB  TYR G 151     218.871 121.556 -44.620  1.00 76.30      GS7
ATOM  40911  CG  TYR G 151     219.028 120.069 -44.720  1.00 76.30      GS7
ATOM  40912  CD1 TYR G 151     220.095 119.422 -44.108  1.00 76.30      GS7
ATOM  40913  CE1 TYR G 151     220.222 118.035 -44.161  1.00 76.30      GS7
ATOM  40914  CD2 TYR G 151     218.086 119.300 -45.393  1.00 76.30      GS7
ATOM  40915  CE2 TYR G 151     218.196 117.915 -45.453  1.00 76.30      GS7
ATOM  40916  CZ  TYR G 151     219.265 117.281 -44.835  1.00 76.30      GS7
ATOM  40917  OH  TYR G 151     219.373 115.899 -44.880  1.00 76.30      GS7
ATOM  40918  C   TYR G 151     218.014 123.648 -45.639  1.00 60.59      GS7
ATOM  40919  O   TYR G 151     217.499 124.011 -44.584  1.00 60.59      GS7
ATOM  40920  N   ALA G 152     218.315 124.499 -46.609  1.00 80.78      GS7
ATOM  40921  CA  ALA G 152     218.079 125.922 -46.430  1.00 80.78      GS7
ATOM  40922  CB  ALA G 152     218.940 126.717 -47.376  1.00 57.48      GS7
ATOM  40923  C   ALA G 152     216.638 126.330 -46.602  1.00 80.78      GS7
ATOM  40924  O   ALA G 152     216.311 127.494 -46.407  1.00 80.78      GS7
ATOM  40925  N   HIS G 153     215.771 125.399 -46.980  1.00 70.55      GS7
ATOM  40926  CA  HIS G 153     214.370 125.761 -47.146  1.00 70.55      GS7
ATOM  40927  CB  HIS G 153     213.637 124.756 -48.046  1.00105.86      GS7
ATOM  40928  CG  HIS G 153     213.854 123.323 -47.676  1.00105.86      GS7
ATOM  40929  CD2 HIS G 153     212.981 122.295 -47.550  1.00105.86      GS7
ATOM  40930  ND1 HIS G 153     215.104 122.794 -47.438  1.00105.86      GS7
ATOM  40931  CE1 HIS G 153     214.992 121.503 -47.180  1.00105.86      GS7
ATOM  40932  NE2 HIS G 153     213.714 121.174 -47.242  1.00105.86      GS7
ATOM  40933  C   HIS G 153     213.712 125.874 -45.780  1.00 70.55      GS7
ATOM  40934  O   HIS G 153     212.497 125.974 -45.664  1.00 70.55      GS7
ATOM  40935  N   TYR G 154     214.543 125.869 -44.744  1.00 98.64      GS7
ATOM  40936  CA  TYR G 154     214.085 126.009 -43.368  1.00 98.64      GS7
ATOM  40937  CB  TYR G 154     214.600 124.847 -42.519  1.00 68.56      GS7
ATOM  40938  CG  TYR G 154     214.202 123.486 -43.033  1.00 68.56      GS7
ATOM  40939  CD1 TYR G 154     214.954 122.360 -42.720  1.00 68.56      GS7
ATOM  40940  CE1 TYR G 154     214.599 121.088 -43.194  1.00 68.56      GS7
ATOM  40941  CD2 TYR G 154     213.073 123.316 -43.832  1.00 68.56      GS7
ATOM  40942  CE2 TYR G 154     212.701 122.044 -44.310  1.00 68.56      GS7
ATOM  40943  CZ  TYR G 154     213.474 120.935 -43.986  1.00 68.56      GS7
ATOM  40944  OH  TYR G 154     213.129 119.682 -44.445  1.00 68.56      GS7
ATOM  40945  C   TYR G 154     214.688 127.322 -42.879  1.00 98.64      GS7
ATOM  40946  O   TYR G 154     215.203 127.410 -41.767  1.00 98.64      GS7
ATOM  40947  N   ARG G 155     214.617 128.336 -43.736  1.00128.30      GS7
ATOM  40948  CA  ARG G 155     215.167 129.654 -43.455  1.00128.30      GS7
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ATOM  40949  CB  ARG G 155     214.561 130.686 -44.406  1.00182.91      GS7
ATOM  40950  CG  ARG G 155     215.219 130.693 -45.771  1.00182.91      GS7
ATOM  40951  CD  ARG G 155     216.720 130.906 -45.626  1.00182.91      GS7
ATOM  40952  NE  ARG G 155     217.417 130.896 -46.909  1.00182.91      GS7
ATOM  40953  CZ  ARG G 155     218.728 131.069 -47.047  1.00182.91      GS7
ATOM  40954  NH1 ARG G 155     219.488 131.263 -45.977  1.00182.91      GS7
ATOM  40955  NH2 ARG G 155     219.281 131.053 -48.254  1.00182.91      GS7
ATOM  40956  C   ARG G 155     215.054 130.151 -42.026  1.00128.30      GS7
ATOM  40957  O   ARG G 155     215.885 130.950 -41.590  1.00128.30      GS7
ATOM  40958  N   TRP G 156     214.036 129.691 -41.302  1.00200.96      GS7
ATOM  40959  CA  TRP G 156     213.831 130.090 -39.908  1.00200.96      GS7
ATOM  40960  CB  TRP G 156     215.152 129.955 -39.132  1.00184.12      GS7
ATOM  40961  CG  TRP G 156     215.013 129.825 -37.642  1.00184.12      GS7
ATOM  40962  CD2 TRP G 156     215.443 128.721 -36.838  1.00184.12      GS7
ATOM  40963  CE2 TRP G 156     215.121 129.029 -35.497  1.00184.12      GS7
ATOM  40964  CE3 TRP G 156     216.067 127.499 -37.119  1.00184.12      GS7
ATOM  40965  CD1 TRP G 156     214.467 130.734 -36.782  1.00184.12      GS7
ATOM  40966  NE1 TRP G 156     214.527 130.264 -35.492  1.00184.12      GS7
ATOM  40967  CZ2 TRP G 156     215.405 128.160 -34.438  1.00184.12      GS7
ATOM  40968  CZ3 TRP G 156     216.350 126.634 -36.065  1.00184.12      GS7
ATOM  40969  CH2 TRP G 156     216.017 126.970 -34.741  1.00184.12      GS7
ATOM  40970  C   TRP G 156     213.324 131.534 -39.843  1.00200.96      GS7
ATOM  40971  O   TRP G 156     213.281 132.191 -40.905  1.00200.96      GS7
ATOM  40972  OXT TRP G 156     212.975 131.998 -38.738  1.00184.12      GS7
TER   40972       TRP G 156                                             GS7
ATOM  40973  CB  MET H   1     138.659 114.214 -42.866  1.00 82.11      HS8
ATOM  40974  CG  MET H   1     137.273 114.155 -42.230  1.00 82.11      HS8
ATOM  40975  SD  MET H   1     136.737 112.439 -41.996  1.00 82.11      HS8
ATOM  40976  CE  MET H   1     136.459 111.906 -43.708  1.00 82.11      HS8
ATOM  40977  C   MET H   1     139.562 115.653 -41.059  1.00122.96      HS8
ATOM  40978  O   MET H   1     140.460 115.103 -40.418  1.00122.96      HS8
ATOM  40979  N   MET H   1     140.814 115.402 -43.181  1.00122.96      HS8
ATOM  40980  CA  MET H   1     139.457 115.485 -42.565  1.00122.96      HS8
ATOM  40981  N   LEU H   2     138.634 116.414 -40.493  1.00 58.64      HS8
ATOM  40982  CA  LEU H   2     138.631 116.623 -39.060  1.00 58.64      HS8
ATOM  40983  CB  LEU H   2     137.739 117.801 -38.671  1.00 53.07      HS8
ATOM  40984  CG  LEU H   2     138.377 119.187 -38.767  1.00 53.07      HS8
ATOM  40985  CD1 LEU H   2     137.505 120.193 -38.020  1.00 53.07      HS8
ATOM  40986  CD2 LEU H   2     139.787 119.156 -38.164  1.00 53.07      HS8
ATOM  40987  C   LEU H   2     138.148 115.370 -38.366  1.00 58.64      HS8
ATOM  40988  O   LEU H   2     137.022 114.922 -38.554  1.00 58.64      HS8
ATOM  40989  N   THR H   3     139.028 114.810 -37.558  1.00 42.55      HS8
ATOM  40990  CA  THR H   3     138.754 113.599 -36.809  1.00 42.55      HS8
ATOM  40991  CB  THR H   3     140.104 113.093 -36.246  1.00 42.61      HS8
ATOM  40992  OG1 THR H   3     139.893 112.087 -35.257  1.00 42.61      HS8
ATOM  40993  CG2 THR H   3     140.878 114.259 -35.662  1.00 42.61      HS8
ATOM  40994  C   THR H   3     137.686 113.802 -35.703  1.00 42.55      HS8
ATOM  40995  O   THR H   3     136.793 112.978 -35.546  1.00 42.55      HS8
ATOM  40996  N   ASP H   4     137.775 114.895 -34.948  1.00 39.92      HS8
ATOM  40997  CA  ASP H   4     136.810 115.191 -33.883  1.00 39.92      HS8
ATOM  40998  CB  ASP H   4     137.286 114.675 -32.523  1.00 82.26      HS8
ATOM  40999  CG  ASP H   4     136.360 115.106 -31.379  1.00 82.26      HS8
ATOM  41000  OD1 ASP H   4     135.411 115.888 -31.623  1.00 82.26      HS8
ATOM  41001  OD2 ASP H   4     136.576 114.669 -30.231  1.00 82.26      HS8
ATOM  41002  C   ASP H   4     136.611 116.698 -33.791  1.00 39.92      HS8
ATOM  41003  O   ASP H   4     137.322 117.388 -33.057  1.00 39.92      HS8
ATOM  41004  N   PRO H   5     135.607 117.223 -34.504  1.00 46.45      HS8
ATOM  41005  CD  PRO H   5     134.633 116.446 -35.278  1.00 38.60      HS8
ATOM  41006  CA  PRO H   5     135.263 118.639 -34.561  1.00 46.45      HS8
ATOM  41007  CB  PRO H   5     133.992 118.639 -35.393  1.00 38.60      HS8
ATOM  41008  CG  PRO H   5     134.166 117.466 -36.266  1.00 38.60      HS8
ATOM  41009  C   PRO H   5     135.089 119.354 -33.232  1.00 46.45      HS8
ATOM  41010  O   PRO H   5     135.565 120.477 -33.069  1.00 46.45      HS8
ATOM  41011  N   ILE H   6     134.399 118.721 -32.291  1.00 29.11      HS8
ATOM  41012  CA  ILE H   6     134.177 119.341 -30.984  1.00 29.11      HS8
ATOM  41013  CB  ILE H   6     133.314 118.451 -30.088  1.00 36.68      HS8
ATOM  41014  CG2 ILE H   6     133.306 118.992 -28.670  1.00 36.68      HS8
ATOM  41015  CG1 ILE H   6     131.907 118.345 -30.687  1.00 36.68      HS8
ATOM  41016  CD1 ILE H   6     131.225 119.676 -30.892  1.00 36.68      HS8
ATOM  41017  C   ILE H   6     135.498 119.579 -30.285  1.00 29.11      HS8
ATOM  41018  O   ILE H   6     135.751 120.656 -29.744  1.00 29.11      HS8
ATOM  41019  N   ALA H   7     136.333 118.547 -30.289  1.00 31.57      HS8
ATOM  41020  CA  ALA H   7     137.648 118.633 -29.691  1.00 31.57      HS8
ATOM  41021  CB  ALA H   7     138.411 117.336 -29.898  1.00 47.20      HS8
ATOM  41022  C   ALA H   7     138.313 119.753 -30.445  1.00 31.57      HS8
ATOM  41023  O   ALA H   7     138.885 120.655 -29.851  1.00 31.57      HS8
ATOM  41024  N   ASP H   8     138.210 119.715 -31.764  1.00 28.08      HS8
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ATOM  41025  CA  ASP H   8     138.828 120.761 -32.541  1.00 28.08       HS8
ATOM  41026  CB  ASP H   8     138.387 120.712 -33.990  1.00 51.65       HS8
ATOM  41027  CG  ASP H   8     139.024 121.808 -34.802  1.00 51.65       HS8
ATOM  41028  OD1 ASP H   8     140.270 121.893 -34.815  1.00 51.65       HS8
ATOM  41029  OD2 ASP H   8     138.283 122.595 -35.420  1.00 51.65       HS8
ATOM  41030  C   ASP H   8     138.517 122.140 -31.972  1.00 28.08       HS8
ATOM  41031  O   ASP H   8     139.430 122.871 -31.567  1.00 28.08       HS8
ATOM  41032  N   MET H   9     137.230 122.486 -31.939  1.00 40.80       HS8
ATOM  41033  CA  MET H   9     136.785 123.774 -31.419  1.00 40.80       HS8
ATOM  41034  CB  MET H   9     135.261 123.824 -31.335  1.00 43.69       HS8
ATOM  41035  CG  MET H   9     134.725 124.888 -30.391  1.00 43.69       HS8
ATOM  41036  SD  MET H   9     132.978 125.232 -30.651  1.00 43.69       HS8
ATOM  41037  CE  MET H   9     132.243 123.691 -30.337  1.00 43.69       HS8
ATOM  41038  C   MET H   9     137.371 124.017 -30.052  1.00 40.80       HS8
ATOM  41039  O   MET H   9     138.063 125.012 -29.827  1.00 40.80       HS8
ATOM  41040  N   LEU H  10     137.096 123.102 -29.136  1.00 28.52       HS8
ATOM  41041  CA  LEU H  10     137.613 123.247 -27.790  1.00 28.52       HS8
ATOM  41042  CB  LEU H  10     137.426 121.944 -27.002  1.00 39.48       HS8
ATOM  41043  CG  LEU H  10     135.958 121.604 -26.695  1.00 39.48       HS8
ATOM  41044  CD1 LEU H  10     135.826 120.300 -25.927  1.00 39.48       HS8
ATOM  41045  CD2 LEU H  10     135.370 122.740 -25.893  1.00 39.48       HS8
ATOM  41046  C   LEU H  10     139.080 123.646 -27.839  1.00 28.52       HS8
ATOM  41047  O   LEU H  10     139.537 124.445 -27.026  1.00 28.52       HS8
ATOM  41048  N   THR H  11     139.814 123.116 -28.811  1.00 39.37       HS8
ATOM  41049  CA  THR H  11     141.231 123.439 -28.933  1.00 39.37       HS8
ATOM  41050  CB  THR H  11     141.988 122.398 -29.797  1.00 50.48       HS8
ATOM  41051  OG1 THR H  11     142.077 121.163 -29.081  1.00 50.48       HS8
ATOM  41052  CG2 THR H  11     143.399 122.873 -30.098  1.00 50.48       HS8
ATOM  41053  C   THR H  11     141.446 124.830 -29.513  1.00 39.37       HS8
ATOM  41054  O   THR H  11     142.235 125.610 -28.969  1.00 39.37       HS8
ATOM  41055  N   ARG H  12     140.757 125.142 -30.610  1.00 36.48       HS8
ATOM  41056  CA  ARG H  12     140.903 126.457 -31.206  1.00 36.48       HS8
ATOM  41057  CB  ARG H  12     139.854 126.714 -32.280  1.00 20.27       HS8
ATOM  41058  CG  ARG H  12     139.863 125.735 -33.428  1.00 20.27       HS8
ATOM  41059  CD  ARG H  12     139.511 126.413 -34.744  1.00 20.27       HS8
ATOM  41060  NE  ARG H  12     139.393 125.426 -35.816  1.00 20.27       HS8
ATOM  41061  CZ  ARG H  12     139.522 125.689 -37.116  1.00 20.27       HS8
ATOM  41062  NH1 ARG H  12     139.774 126.917 -37.529  1.00 20.27       HS8
ATOM  41063  NH2 ARG H  12     139.417 124.720 -38.010  1.00 20.27       HS8
ATOM  41064  C   ARG H  12     140.723 127.447 -30.076  1.00 36.48       HS8
ATOM  41065  O   ARG H  12     141.533 128.361 -29.923  1.00 36.48       HS8
ATOM  41066  N   ILE H  13     139.674 127.253 -29.271  1.00 36.06       HS8
ATOM  41067  CA  ILE H  13     139.416 128.134 -28.125  1.00 36.06       HS8
ATOM  41068  CB  ILE H  13     138.128 127.733 -27.352  1.00 27.29       HS8
ATOM  41069  CG2 ILE H  13     137.952 128.612 -26.125  1.00 27.29       HS8
ATOM  41070  CG1 ILE H  13     136.907 127.935 -28.254  1.00 27.29       HS8
ATOM  41071  CD1 ILE H  13     135.577 127.709 -27.581  1.00 27.29       HS8
ATOM  41072  C   ILE H  13     140.595 128.111 -27.158  1.00 36.06       HS8
ATOM  41073  O   ILE H  13     141.119 129.154 -26.764  1.00 36.06       HS8
ATOM  41074  N   ARG H  14     141.025 126.918 -26.783  1.00 36.67       HS8
ATOM  41075  CA  ARG H  14     142.146 126.825 -25.879  1.00 36.67       HS8
ATOM  41076  CB  ARG H  14     142.617 125.390 -25.757  1.00 33.65       HS8
ATOM  41077  CG  ARG H  14     143.589 125.222 -24.616  1.00 33.65       HS8
ATOM  41078  CD  ARG H  14     144.101 123.807 -24.515  1.00 33.65       HS8
ATOM  41079  NE  ARG H  14     143.042 122.808 -24.406  1.00 33.65       HS8
ATOM  41080  CZ  ARG H  14     142.508 122.157 -25.437  1.00 33.65       HS8
ATOM  41081  NH1 ARG H  14     142.926 122.398 -26.672  1.00 33.65       HS8
ATOM  41082  NH2 ARG H  14     141.572 121.239 -25.231  1.00 33.65       HS8
ATOM  41083  C   ARG H  14     143.289 127.688 -26.394  1.00 36.67       HS8
ATOM  41084  O   ARG H  14     143.664 128.673 -25.761  1.00 36.67       HS8
ATOM  41085  N   ASN H  15     143.829 127.327 -27.555  1.00 69.42       HS8
ATOM  41086  CA  ASN H  15     144.942 128.066 -28.144  1.00 69.42       HS8
ATOM  41087  CB  ASN H  15     145.203 127.595 -29.577  1.00 33.98       HS8
ATOM  41088  CG  ASN H  15     145.703 126.158 -29.640  1.00 33.98       HS8
ATOM  41089  OD1 ASN H  15     146.208 125.612 -28.654  1.00 33.98       HS8
ATOM  41090  ND2 ASN H  15     145.577 125.547 -30.808  1.00 33.98       HS8
ATOM  41091  C   ASN H  15     144.741 129.573 -28.139  1.00 69.42       HS8
ATOM  41092  O   ASN H  15     145.412 130.291 -27.406  1.00 69.42       HS8
ATOM  41093  N   ALA H  16     143.819 130.050 -28.963  1.00 27.50       HS8
ATOM  41094  CA  ALA H  16     143.533 131.484 -29.048  1.00 27.50       HS8
ATOM  41095  CB  ALA H  16     142.169 131.705 -29.691  1.00 19.22       HS8
ATOM  41096  C   ALA H  16     143.592 132.232 -27.714  1.00 27.50       HS8
ATOM  41097  O   ALA H  16     144.138 133.320 -27.645  1.00 27.50       HS8
ATOM  41098  N   THR H  17     143.042 131.674 -26.648  1.00 36.04       HS8
ATOM  41099  CA  THR H  17     143.089 132.414 -25.398  1.00 36.04       HS8
ATOM  41100  CB  THR H  17     142.106 131.852 -24.350  1.00 23.88       HS8
ATOM  41101  OG1 THR H  17     142.338 130.455 -24.155  1.00 23.88       HS8
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ATOM  41102  CG2 THR H  17     140.683 132.072 -24.811  1.00 23.88       HS8
ATOM  41103  C   THR H  17     144.480 132.488 -24.796  1.00 36.04       HS8
ATOM  41104  O   THR H  17     144.787 133.433 -24.065  1.00 36.04       HS8
ATOM  41105  N   ARG H  18     145.321 131.503 -25.107  1.00 55.14       HS8
ATOM  41106  CA  ARG H  18     146.682 131.478 -24.583  1.00 55.14       HS8
ATOM  41107  CB  ARG H  18     147.362 130.145 -24.895  1.00113.63       HS8
ATOM  41108  CG  ARG H  18     147.321 129.176 -23.734  1.00113.63       HS8
ATOM  41109  CD  ARG H  18     145.900 129.005 -23.246  1.00113.63       HS8
ATOM  41110  NE  ARG H  18     145.857 128.567 -21.857  1.00113.63       HS8
ATOM  41111  CZ  ARG H  18     144.755 128.557 -21.115  1.00113.63       HS8
ATOM  41112  NH1 ARG H  18     143.596 128.961 -21.628  1.00113.63       HS8
ATOM  41113  NH2 ARG H  18     144.814 128.153 -19.853  1.00113.63       HS8
ATOM  41114  C   ARG H  18     147.498 132.623 -25.146  1.00 55.14       HS8
ATOM  41115  O   ARG H  18     148.537 132.985 -24.594  1.00 55.14       HS8
ATOM  41116  N   VAL H  19     147.033 133.193 -26.250  1.00 31.84       HS8
ATOM  41117  CA  VAL H  19     147.724 134.322 -26.845  1.00 31.84       HS8
ATOM  41118  CB  VAL H  19     148.110 134.058 -28.296  1.00 23.57       HS8
ATOM  41119  CG1 VAL H  19     148.930 132.801 -28.371  1.00 23.57       HS8
ATOM  41120  CG2 VAL H  19     146.872 133.975 -29.172  1.00 23.57       HS8
ATOM  41121  C   VAL H  19     146.815 135.539 -26.789  1.00 31.84       HS8
ATOM  41122  O   VAL H  19     147.088 136.571 -27.406  1.00 31.84       HS8
ATOM  41123  N   TYR H  20     145.706 135.393 -26.076  1.00 35.52       HS8
ATOM  41124  CA  TYR H  20     144.779 136.485 -25.900  1.00 35.52       HS8
ATOM  41125  CB  TYR H  20     145.503 137.571 -25.139  1.00 29.27       HS8
ATOM  41126  CG  TYR H  20     146.015 137.074 -23.828  1.00 29.27       HS8
ATOM  41127  CD1 TYR H  20     145.169 136.987 -22.731  1.00 29.27       HS8
ATOM  41128  CE1 TYR H  20     145.609 136.469 -21.519  1.00 29.27       HS8
ATOM  41129  CD2 TYR H  20     147.324 136.636 -23.691  1.00 29.27       HS8
ATOM  41130  CE2 TYR H  20     147.780 136.120 -22.485  1.00 29.27       HS8
ATOM  41131  CZ  TYR H  20     146.913 136.036 -21.400  1.00 29.27       HS8
ATOM  41132  OH  TYR H  20     147.331 135.518 -20.194  1.00 29.27       HS8
ATOM  41133  C   TYR H  20     144.130 137.076 -27.146  1.00 35.52       HS8
ATOM  41134  O   TYR H  20     143.952 138.293 -27.230  1.00 35.52       HS8
ATOM  41135  N   LYS H  21     143.774 136.240 -28.117  1.00 32.97       HS8
ATOM  41136  CA  LYS H  21     143.105 136.761 -29.296  1.00 32.97       HS8
ATOM  41137  CB  LYS H  21     142.842 135.655 -30.303  1.00 72.32       HS8
ATOM  41138  CG  LYS H  21     144.094 134.976 -30.807  1.00 72.32       HS8
ATOM  41139  CD  LYS H  21     145.097 135.978 -31.353  1.00 72.32       HS8
ATOM  41140  CE  LYS H  21     145.809 135.407 -32.561  1.00 72.32       HS8
ATOM  41141  NZ  LYS H  21     144.803 135.071 -33.611  1.00 72.32       HS8
ATOM  41142  C   LYS H  21     141.782 137.344 -28.816  1.00 32.97       HS8
ATOM  41143  O   LYS H  21     141.316 137.037 -27.716  1.00 32.97       HS8
ATOM  41144  N   GLU H  22     141.177 138.204 -29.618  1.00 48.46       HS8
ATOM  41145  CA  GLU H  22     139.914 138.796 -29.219  1.00 48.46       HS8
ATOM  41146  CB  GLU H  22     139.738 140.162 -29.877  1.00161.76       HS8
ATOM  41147  CG  GLU H  22     138.505 140.906 -29.413  1.00161.76       HS8
ATOM  41148  CD  GLU H  22     138.373 142.270 -30.053  1.00161.76       HS8
ATOM  41149  OE1 GLU H  22     138.321 142.343 -31.299  1.00161.76       HS8
ATOM  41150  OE2 GLU H  22     138.318 143.271 -29.307  1.00161.76       HS8
ATOM  41151  C   GLU H  22     138.798 137.854 -29.645  1.00 48.46       HS8
ATOM  41152  O   GLU H  22     137.931 137.493 -28.851  1.00 48.46       HS8
ATOM  41153  N   SER H  23     138.825 137.450 -30.905  1.00 28.97       HS8
ATOM  41154  CA  SER H  23     137.813 136.552 -31.409  1.00 28.97       HS8
ATOM  41155  CB  SER H  23     137.140 137.131 -32.648  1.00 61.00       HS8
ATOM  41156  OG  SER H  23     137.951 136.940 -33.793  1.00 61.00       HS8
ATOM  41157  C   SER H  23     138.555 135.284 -31.776  1.00 28.97       HS8
ATOM  41158  O   SER H  23     139.660 135.065 -31.285  1.00 28.97       HS8
ATOM  41159  N   THR H  24     137.936 134.467 -32.634  1.00 36.58       HS8
ATOM  41160  CA  THR H  24     138.472 133.197 -33.120  1.00 36.58       HS8
ATOM  41161  CB  THR H  24     138.967 132.320 -32.003  1.00 40.65       HS8
ATOM  41162  OG1 THR H  24     139.074 130.975 -32.483  1.00 40.65       HS8
ATOM  41163  CG2 THR H  24     138.001 132.355 -30.853  1.00 40.65       HS8
ATOM  41164  C   THR H  24     137.354 132.436 -33.812  1.00 36.58       HS8
ATOM  41165  O   THR H  24     136.256 132.316 -33.286  1.00 36.58       HS8
ATOM  41166  N   ASP H  25     137.636 131.904 -34.987  1.00 51.89       HS8
ATOM  41167  CA  ASP H  25     136.623 131.190 -35.735  1.00 51.89       HS8
ATOM  41168  CB  ASP H  25     136.710 131.568 -37.204  1.00 67.96       HS8
ATOM  41169  CG  ASP H  25     136.596 133.048 -37.417  1.00 67.96       HS8
ATOM  41170  OD1 ASP H  25     136.911 133.809 -36.476  1.00 67.96       HS8
ATOM  41171  OD2 ASP H  25     136.205 133.455 -38.528  1.00 67.96       HS8
ATOM  41172  C   ASP H  25     136.764 129.698 -35.611  1.00 51.89       HS8
ATOM  41173  O   ASP H  25     137.851 129.181 -35.378  1.00 51.89       HS8
ATOM  41174  N   VAL H  26     135.642 129.015 -35.778  1.00 50.14       HS8
ATOM  41175  CA  VAL H  26     135.595 127.565 -35.730  1.00 50.14       HS8
ATOM  41176  CB  VAL H  26     135.207 127.036 -34.316  1.00 27.75       HS8
ATOM  41177  CG1 VAL H  26     135.454 128.104 -33.286  1.00 27.75       HS8
ATOM  41178  CG2 VAL H  26     133.764 126.586 -34.283  1.00 27.75       HS8
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ATOM  41179  C   VAL H  26     134.526 127.190 -36.740  1.00 50.14      HS8
ATOM  41180  O   VAL H  26     133.505 127.871 -36.858  1.00 50.14      HS8
ATOM  41181  N   PRO H  27     134.758 126.124 -37.508  1.00 33.26      HS8
ATOM  41182  CD  PRO H  27     135.937 125.255 -37.599  1.00 32.76      HS8
ATOM  41183  CA  PRO H  27     133.752 125.734 -38.490  1.00 33.26      HS8
ATOM  41184  CB  PRO H  27     134.314 124.452 -39.062  1.00 32.76      HS8
ATOM  41185  CG  PRO H  27     135.773 124.683 -38.983  1.00 32.76      HS8
ATOM  41186  C   PRO H  27     132.473 125.517 -37.727  1.00 33.26      HS8
ATOM  41187  O   PRO H  27     132.491 124.897 -36.666  1.00 33.26      HS8
ATOM  41188  N   ALA H  28     131.374 126.040 -38.269  1.00 43.88      HS8
ATOM  41189  CA  ALA H  28     130.061 125.958 -37.642  1.00 43.88      HS8
ATOM  41190  CB  ALA H  28     129.179 127.058 -38.193  1.00 67.61      HS8
ATOM  41191  C   ALA H  28     129.351 124.619 -37.771  1.00 43.88      HS8
ATOM  41192  O   ALA H  28     129.573 123.864 -38.718  1.00 43.88      HS8
ATOM  41193  N   SER H  29     128.492 124.348 -36.794  1.00 40.52      HS8
ATOM  41194  CA  SER H  29     127.694 123.130 -36.735  1.00 40.52      HS8
ATOM  41195  CB  SER H  29     128.569 121.916 -36.505  1.00 42.73      HS8
ATOM  41196  OG  SER H  29     128.918 121.841 -35.131  1.00 42.73      HS8
ATOM  41197  C   SER H  29     126.785 123.274 -35.532  1.00 40.52      HS8
ATOM  41198  O   SER H  29     127.239 123.710 -34.466  1.00 40.52      HS8
ATOM  41199  N   ARG H  30     125.513 122.906 -35.698  1.00 36.75      HS8
ATOM  41200  CA  ARG H  30     124.529 122.981 -34.614  1.00 36.75      HS8
ATOM  41201  CB  ARG H  30     123.431 121.937 -34.823  1.00164.05      HS8
ATOM  41202  CG  ARG H  30     122.621 122.100 -36.092  1.00164.05      HS8
ATOM  41203  CD  ARG H  30     121.605 123.218 -35.965  1.00164.05      HS8
ATOM  41204  NE  ARG H  30     120.742 123.292 -37.139  1.00164.05      HS8
ATOM  41205  CZ  ARG H  30     119.692 124.099 -37.245  1.00164.05      HS8
ATOM  41206  NH1 ARG H  30     119.370 124.906 -36.242  1.00164.05      HS8
ATOM  41207  NH2 ARG H  30     118.964 124.098 -38.353  1.00164.05      HS8
ATOM  41208  C   ARG H  30     125.246 122.679 -33.303  1.00 36.75      HS8
ATOM  41209  O   ARG H  30     125.494 123.565 -32.487  1.00 36.75      HS8
ATOM  41210  N   PHE H  31     125.614 121.413 -33.146  1.00 30.64      HS8
ATOM  41211  CA  PHE H  31     126.281 120.929 -31.955  1.00 30.64      HS8
ATOM  41212  CB  PHE H  31     126.854 119.534 -32.207  1.00 44.84      HS8
ATOM  41213  CG  PHE H  31     127.281 118.826 -30.957  1.00 44.84      HS8
ATOM  41214  CD1 PHE H  31     126.577 118.997 -29.775  1.00 44.84      HS8
ATOM  41215  CD2 PHE H  31     128.393 118.005 -30.955  1.00 44.84      HS8
ATOM  41216  CE1 PHE H  31     126.974 118.372 -28.617  1.00 44.84      HS8
ATOM  41217  CE2 PHE H  31     128.795 117.375 -29.799  1.00 44.84      HS8
ATOM  41218  CZ  PHE H  31     128.080 117.563 -28.626  1.00 44.84      HS8
ATOM  41219  C   PHE H  31     127.357 121.853 -31.435  1.00 30.64      HS8
ATOM  41220  O   PHE H  31     127.407 122.139 -30.239  1.00 30.64      HS8
ATOM  41221  N   LYS H  32     128.222 122.324 -32.316  1.00 39.37      HS8
ATOM  41222  CA  LYS H  32     129.259 123.230 -31.858  1.00 39.37      HS8
ATOM  41223  CB  LYS H  32     130.184 123.622 -33.011  1.00 52.39      HS8
ATOM  41224  CG  LYS H  32     131.209 122.559 -33.366  1.00 52.39      HS8
ATOM  41225  CD  LYS H  32     131.800 122.838 -34.719  1.00 52.39      HS8
ATOM  41226  CE  LYS H  32     132.802 121.782 -35.126  1.00 52.39      HS8
ATOM  41227  NZ  LYS H  32     133.258 121.961 -36.540  1.00 52.39      HS8
ATOM  41228  C   LYS H  32     128.580 124.462 -31.280  1.00 39.37      HS8
ATOM  41229  O   LYS H  32     128.929 124.932 -30.187  1.00 39.37      HS8
ATOM  41230  N   GLU H  33     127.590 124.966 -32.016  1.00 53.32      HS8
ATOM  41231  CA  GLU H  33     126.839 126.148 -31.600  1.00 53.32      HS8
ATOM  41232  CB  GLU H  33     125.760 126.453 -32.640  1.00 91.79      HS8
ATOM  41233  CG  GLU H  33     124.927 127.671 -32.341  1.00 91.79      HS8
ATOM  41234  CD  GLU H  33     124.233 128.214 -33.578  1.00 91.79      HS8
ATOM  41235  OE1 GLU H  33     124.019 127.430 -34.531  1.00 91.79      HS8
ATOM  41236  OE2 GLU H  33     123.892 129.421 -33.595  1.00 91.79      HS8
ATOM  41237  C   GLU H  33     126.224 125.916 -30.219  1.00 53.32      HS8
ATOM  41238  O   GLU H  33     126.393 126.720 -29.297  1.00 53.32      HS8
ATOM  41239  N   GLU H  34     125.538 124.787 -30.080  1.00 37.53      HS8
ATOM  41240  CA  GLU H  34     124.900 124.428 -28.830  1.00 37.53      HS8
ATOM  41241  CB  GLU H  34     124.302 123.035 -28.940  1.00 86.91      HS8
ATOM  41242  CG  GLU H  34     122.985 123.066 -29.657  1.00 86.91      HS8
ATOM  41243  CD  GLU H  34     121.993 123.959 -28.942  1.00 86.91      HS8
ATOM  41244  OE1 GLU H  34     121.022 124.415 -29.580  1.00 86.91      HS8
ATOM  41245  OE2 GLU H  34     122.183 124.200 -27.730  1.00 86.91      HS8
ATOM  41246  C   GLU H  34     125.828 124.505 -27.641  1.00 37.53      HS8
ATOM  41247  O   GLU H  34     125.417 124.931 -26.566  1.00 37.53      HS8
ATOM  41248  N   ILE H  35     127.085 124.111 -27.831  1.00 38.12      HS8
ATOM  41249  CA  ILE H  35     128.043 124.132 -26.734  1.00 38.12      HS8
ATOM  41250  CB  ILE H  35     129.297 123.309 -27.070  1.00 32.37      HS8
ATOM  41251  CG2 ILE H  35     130.073 123.007 -25.813  1.00 32.37      HS8
ATOM  41252  CG1 ILE H  35     128.878 121.974 -27.671  1.00 32.37      HS8
ATOM  41253  CD1 ILE H  35     129.992 120.972 -27.799  1.00 32.37      HS8
ATOM  41254  C   ILE H  35     128.427 125.562 -26.427  1.00 38.12      HS8
ATOM  41255  O   ILE H  35     128.478 125.976 -25.266  1.00 38.12      HS8
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ATOM  41256  N   LEU H  36     128.683 126.324 -27.477  1.00 38.87      HS8
ATOM  41257  CA  LEU H  36     129.030 127.720 -27.295  1.00 38.87      HS8
ATOM  41258  CB  LEU H  36     129.053 128.412 -28.651  1.00 34.47      HS8
ATOM  41259  CG  LEU H  36     130.161 127.864 -29.540  1.00 34.47      HS8
ATOM  41260  CD1 LEU H  36     130.066 128.478 -30.931  1.00 34.47      HS8
ATOM  41261  CD2 LEU H  36     131.514 128.160 -28.877  1.00 34.47      HS8
ATOM  41262  C   LEU H  36     127.984 128.353 -26.375  1.00 38.87      HS8
ATOM  41263  O   LEU H  36     128.315 129.116 -25.466  1.00 38.87      HS8
ATOM  41264  N   ARG H  37     126.722 128.012 -26.622  1.00 43.78      HS8
ATOM  41265  CA  ARG H  37     125.602 128.489 -25.820  1.00 43.78      HS8
ATOM  41266  CB  ARG H  37     124.357 127.672 -26.123  1.00 92.63      HS8
ATOM  41267  CG  ARG H  37     123.418 128.290 -27.097  1.00 92.63      HS8
ATOM  41268  CD  ARG H  37     122.018 128.099 -26.580  1.00 92.63      HS8
ATOM  41269  NE  ARG H  37     121.022 128.475 -27.566  1.00 92.63      HS8
ATOM  41270  CZ  ARG H  37     119.737 128.637 -27.286  1.00 92.63      HS8
ATOM  41271  NH1 ARG H  37     119.318 128.454 -26.039  1.00 92.63      HS8
ATOM  41272  NH2 ARG H  37     118.876 128.981 -28.246  1.00 92.63      HS8
ATOM  41273  C   ARG H  37     125.883 128.372 -24.327  1.00 43.78      HS8
ATOM  41274  O   ARG H  37     125.790 129.347 -23.593  1.00 43.78      HS8
ATOM  41275  N   ILE H  38     126.201 127.167 -23.868  1.00 35.99      HS8
ATOM  41276  CA  ILE H  38     126.474 126.992 -22.458  1.00 35.99      HS8
ATOM  41277  CB  ILE H  38     126.752 125.514 -22.091  1.00 42.42      HS8
ATOM  41278  CG2 ILE H  38     127.381 125.435 -20.705  1.00 42.42      HS8
ATOM  41279  CG1 ILE H  38     125.454 124.706 -22.080  1.00 42.42      HS8
ATOM  41280  CD1 ILE H  38     124.774 124.615 -23.412  1.00 42.42      HS8
ATOM  41281  C   ILE H  38     127.713 127.812 -22.154  1.00 35.99      HS8
ATOM  41282  O   ILE H  38     127.749 128.607 -21.205  1.00 35.99      HS8
ATOM  41283  N   LEU H  39     128.729 127.618 -22.981  1.00 60.44      HS8
ATOM  41284  CA  LEU H  39     129.976 128.324 -22.804  1.00 60.44      HS8
ATOM  41285  CB  LEU H  39     130.838 128.144 -24.050  1.00 42.66      HS8
ATOM  41286  CG  LEU H  39     132.236 127.625 -23.714  1.00 42.66      HS8
ATOM  41287  CD1 LEU H  39     132.214 126.863 -22.378  1.00 42.66      HS8
ATOM  41288  CD2 LEU H  39     132.727 126.754 -24.851  1.00 42.66      HS8
ATOM  41289  C   LEU H  39     129.746 129.798 -22.502  1.00 60.44      HS8
ATOM  41290  O   LEU H  39     130.395 130.371 -21.629  1.00 60.44      HS8
ATOM  41291  N   ALA H  40     128.802 130.404 -23.209  1.00 60.52      HS8
ATOM  41292  CA  ALA H  40     128.489 131.812 -23.005  1.00 60.52      HS8
ATOM  41293  CB  ALA H  40     127.787 132.360 -24.214  1.00 19.49      HS8
ATOM  41294  C   ALA H  40     127.620 132.016 -21.774  1.00 60.52      HS8
ATOM  41295  O   ALA H  40     127.970 132.782 -20.882  1.00 60.52      HS8
ATOM  41296  N   ARG H  41     126.478 131.336 -21.739  1.00 49.77      HS8
ATOM  41297  CA  ARG H  41     125.549 131.429 -20.620  1.00 49.77      HS8
ATOM  41298  CB  ARG H  41     124.506 130.322 -20.724  1.00 87.59      HS8
ATOM  41299  CG  ARG H  41     123.504 130.285 -19.583  1.00 87.59      HS8
ATOM  41300  CD  ARG H  41     122.734 128.983 -19.637  1.00 87.59      HS8
ATOM  41301  NE  ARG H  41     122.224 128.739 -20.981  1.00 87.59      HS8
ATOM  41302  CZ  ARG H  41     122.000 127.529 -21.479  1.00 87.59      HS8
ATOM  41303  NH1 ARG H  41     122.248 126.457 -20.732  1.00 87.59      HS8
ATOM  41304  NH2 ARG H  41     121.538 127.390 -22.718  1.00 87.59      HS8
ATOM  41305  C   ARG H  41     126.271 131.301 -19.286  1.00 49.77      HS8
ATOM  41306  O   ARG H  41     125.927 131.977 -18.313  1.00 49.77      HS8
ATOM  41307  N   GLU H  42     127.267 130.419 -19.251  1.00 47.70      HS8
ATOM  41308  CA  GLU H  42     128.039 130.173 -18.046  1.00 47.70      HS8
ATOM  41309  CB  GLU H  42     128.756 128.839 -18.166  1.00 89.47      HS8
ATOM  41310  CG  GLU H  42     127.834 127.658 -18.015  1.00 89.47      HS8
ATOM  41311  CD  GLU H  42     127.059 127.725 -16.721  1.00 89.47      HS8
ATOM  41312  OE1 GLU H  42     127.659 128.117 -15.695  1.00 89.47      HS8
ATOM  41313  OE2 GLU H  42     125.858 127.381 -16.723  1.00 89.47      HS8
ATOM  41314  C   GLU H  42     129.037 131.286 -17.785  1.00 47.70      HS8
ATOM  41315  O   GLU H  42     129.617 131.371 -16.701  1.00 47.70      HS8
ATOM  41316  N   GLY H  43     129.240 132.128 -18.795  1.00 55.65      HS8
ATOM  41317  CA  GLY H  43     130.147 133.256 -18.667  1.00 55.65      HS8
ATOM  41318  C   GLY H  43     131.612 132.974 -18.911  1.00 55.65      HS8
ATOM  41319  O   GLY H  43     132.463 133.471 -18.183  1.00 55.65      HS8
ATOM  41320  N   PHE H  44     131.909 132.188 -19.939  1.00 49.19      HS8
ATOM  41321  CA  PHE H  44     133.290 131.845 -20.253  1.00 49.19      HS8
ATOM  41322  CB  PHE H  44     133.442 130.333 -20.474  1.00 35.53      HS8
ATOM  41323  CG  PHE H  44     133.426 129.527 -19.202  1.00 35.53      HS8
ATOM  41324  CD1 PHE H  44     134.460 129.638 -18.281  1.00 35.53      HS8
ATOM  41325  CD2 PHE H  44     132.377 128.664 -18.925  1.00 35.53      HS8
ATOM  41326  CE1 PHE H  44     134.450 128.898 -17.100  1.00 35.53      HS8
ATOM  41327  CE2 PHE H  44     132.359 127.918 -17.741  1.00 35.53      HS8
ATOM  41328  CZ  PHE H  44     133.400 128.038 -16.829  1.00 35.53      HS8
ATOM  41329  C   PHE H  44     133.742 132.577 -21.483  1.00 49.19      HS8
ATOM  41330  O   PHE H  44     134.932 132.691 -21.736  1.00 49.19      HS8
ATOM  41331  N   ILE H  45     132.789 133.066 -22.259  1.00 47.31      HS8
ATOM  41332  CA  ILE H  45     133.130 133.807 -23.462  1.00 47.31      HS8
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ATOM  41333  CB  ILE H  45     132.897 132.964 -24.733  1.00 17.54      HS8
ATOM  41334  CG2 ILE H  45     133.812 131.759 -24.723  1.00 17.54      HS8
ATOM  41335  CG1 ILE H  45     131.439 132.530 -24.817  1.00 17.54      HS8
ATOM  41336  CD1 ILE H  45     131.163 131.575 -25.933  1.00 17.54      HS8
ATOM  41337  C   ILE H  45     132.279 135.056 -23.539  1.00 47.31      HS8
ATOM  41338  O   ILE H  45     131.179 135.083 -23.009  1.00 47.31      HS8
ATOM  41339  N   LYS H  46     132.779 136.105 -24.171  1.00 72.23      HS8
ATOM  41340  CA  LYS H  46     131.958 137.292 -24.279  1.00 72.23      HS8
ATOM  41341  CB  LYS H  46     132.709 138.443 -24.952  1.00 76.86      HS8
ATOM  41342  CG  LYS H  46     133.648 139.197 -24.021  1.00 76.86      HS8
ATOM  41343  CD  LYS H  46     134.164 140.480 -24.657  1.00 76.86      HS8
ATOM  41344  CE  LYS H  46     135.011 141.295 -23.681  1.00 76.86      HS8
ATOM  41345  NZ  LYS H  46     136.287 140.617 -23.282  1.00 76.86      HS8
ATOM  41346  C   LYS H  46     130.749 136.912 -25.114  1.00 72.23      HS8
ATOM  41347  O   LYS H  46     129.761 137.634 -25.137  1.00 72.23      HS8
ATOM  41348  N   GLY H  47     130.827 135.760 -25.777  1.00 43.27      HS8
ATOM  41349  CA  GLY H  47     129.738 135.306 -26.626  1.00 43.27      HS8
ATOM  41350  C   GLY H  47     130.239 134.932 -28.014  1.00 43.27      HS8
ATOM  41351  O   GLY H  47     131.447 134.898 -28.264  1.00 43.27      HS8
ATOM  41352  N   TYR H  48     129.322 134.678 -28.938  1.00 41.19      HS8
ATOM  41353  CA  TYR H  48     129.714 134.273 -30.278  1.00 41.19      HS8
ATOM  41354  CB  TYR H  48     129.891 132.772 -30.304  1.00 49.23      HS8
ATOM  41355  CG  TYR H  48     128.568 132.077 -30.488  1.00 49.23      HS8
ATOM  41356  CD1 TYR H  48     128.094 131.776 -31.764  1.00 49.23      HS8
ATOM  41357  CE1 TYR H  48     126.847 131.212 -31.955  1.00 49.23      HS8
ATOM  41358  CD2 TYR H  48     127.756 131.794 -29.399  1.00 49.23      HS8
ATOM  41359  CE2 TYR H  48     126.496 131.232 -29.571  1.00 49.23      HS8
ATOM  41360  CZ  TYR H  48     126.041 130.939 -30.858  1.00 49.23      HS8
ATOM  41361  OH  TYR H  48     124.783 130.379 -31.047  1.00 49.23      HS8
ATOM  41362  C   TYR H  48     128.609 134.605 -31.254  1.00 41.19      HS8
ATOM  41363  O   TYR H  48     127.487 134.851 -30.843  1.00 41.19      HS8
ATOM  41364  N   GLU H  49     128.912 134.559 -32.547  1.00 41.84      HS8
ATOM  41365  CA  GLU H  49     127.914 134.829 -33.576  1.00 41.84      HS8
ATOM  41366  CB  GLU H  49     127.825 136.325 -33.865  1.00105.83      HS8
ATOM  41367  CG  GLU H  49     129.116 136.933 -34.358  1.00105.83      HS8
ATOM  41368  CD  GLU H  49     128.918 138.329 -34.903  1.00105.83      HS8
ATOM  41369  OE1 GLU H  49     128.243 138.474 -35.945  1.00105.83      HS8
ATOM  41370  OE2 GLU H  49     129.434 139.284 -34.287  1.00105.83      HS8
ATOM  41371  C   GLU H  49     128.288 134.096 -34.847  1.00 41.84      HS8
ATOM  41372  O   GLU H  49     129.461 133.807 -35.069  1.00 41.84      HS8
ATOM  41373  N   ARG H  50     127.300 133.781 -35.680  1.00 56.67      HS8
ATOM  41374  CA  ARG H  50     127.579 133.085 -36.932  1.00 56.67      HS8
ATOM  41375  CB  ARG H  50     126.308 132.543 -37.549  1.00 73.31      HS8
ATOM  41376  CG  ARG H  50     125.609 131.527 -36.722  1.00 73.31      HS8
ATOM  41377  CD  ARG H  50     124.174 131.514 -37.123  1.00 73.31      HS8
ATOM  41378  NE  ARG H  50     123.525 130.272 -36.756  1.00 73.31      HS8
ATOM  41379  CZ  ARG H  50     122.263 129.996 -37.049  1.00 73.31      HS8
ATOM  41380  NH1 ARG H  50     121.530 130.889 -37.706  1.00 73.31      HS8
ATOM  41381  NH2 ARG H  50     121.742 128.826 -36.703  1.00 73.31      HS8
ATOM  41382  C   ARG H  50     128.185 134.086 -37.885  1.00 56.67      HS8
ATOM  41383  O   ARG H  50     127.793 135.249 -37.893  1.00 56.67      HS8
ATOM  41384  N   VAL H  51     129.130 133.629 -38.694  1.00 54.11      HS8
ATOM  41385  CA  VAL H  51     129.805 134.496 -39.640  1.00 54.11      HS8
ATOM  41386  CB  VAL H  51     131.030 135.153 -39.007  1.00 54.65      HS8
ATOM  41387  CG1 VAL H  51     131.822 135.868 -40.075  1.00 54.65      HS8
ATOM  41388  CG2 VAL H  51     130.607 136.128 -37.922  1.00 54.65      HS8
ATOM  41389  C   VAL H  51     130.289 133.679 -40.806  1.00 54.11      HS8
ATOM  41390  O   VAL H  51     130.862 132.617 -40.611  1.00 54.11      HS8
ATOM  41391  N   ASP H  52     130.077 134.173 -42.017  1.00 60.45      HS8
ATOM  41392  CA  ASP H  52     130.520 133.447 -43.196  1.00 60.45      HS8
ATOM  41393  CB  ASP H  52     129.522 133.632 -44.329  1.00 90.62      HS8
ATOM  41394  CG  ASP H  52     128.384 132.647 -44.249  1.00 90.62      HS8
ATOM  41395  OD1 ASP H  52     128.123 132.144 -43.131  1.00 90.62      HS8
ATOM  41396  OD2 ASP H  52     127.750 132.380 -45.295  1.00 90.62      HS8
ATOM  41397  C   ASP H  52     131.906 133.869 -43.637  1.00 60.45      HS8
ATOM  41398  O   ASP H  52     132.171 135.046 -43.849  1.00 60.45      HS8
ATOM  41399  N   VAL H  53     132.789 132.887 -43.769  1.00 56.18      HS8
ATOM  41400  CA  VAL H  53     134.165 133.121 -44.176  1.00 56.18      HS8
ATOM  41401  CB  VAL H  53     135.131 132.625 -43.107  1.00 59.31      HS8
ATOM  41402  CG1 VAL H  53     136.555 132.724 -43.603  1.00 59.31      HS8
ATOM  41403  CG2 VAL H  53     134.940 133.436 -41.846  1.00 59.31      HS8
ATOM  41404  C   VAL H  53     134.463 132.392 -45.471  1.00 56.18      HS8
ATOM  41405  O   VAL H  53     134.274 131.183 -45.564  1.00 56.18      HS8
ATOM  41406  N   ASP H  54     134.935 133.140 -46.463  1.00 91.58      HS8
ATOM  41407  CA  ASP H  54     135.263 132.588 -47.771  1.00 91.58      HS8
ATOM  41408  CB  ASP H  54     136.505 131.694 -47.681  1.00200.96      HS8
ATOM  41409  CG  ASP H  54     137.007 131.254 -49.046  1.00200.96      HS8
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ATOM  41410  OD1 ASP H  54     137.299 132.134 -49.885  1.00200.96      HS8
ATOM  41411  OD2 ASP H  54     137.111 130.031 -49.280  1.00200.96      HS8
ATOM  41412  C   ASP H  54     134.094 131.796 -48.340  1.00 91.58      HS8
ATOM  41413  O   ASP H  54     134.281 130.874 -49.133  1.00 91.58      HS8
ATOM  41414  N   GLY H  55     132.885 132.155 -47.925  1.00 80.07      HS8
ATOM  41415  CA  GLY H  55     131.714 131.466 -48.429  1.00 80.07      HS8
ATOM  41416  C   GLY H  55     131.161 130.379 -47.532  1.00 80.07      HS8
ATOM  41417  O   GLY H  55     130.021 129.954 -47.709  1.00 80.07      HS8
ATOM  41418  N   LYS H  56     131.953 129.921 -46.569  1.00 46.21      HS8
ATOM  41419  CA  LYS H  56     131.497 128.876 -45.664  1.00 46.21      HS8
ATOM  41420  CB  LYS H  56     132.469 127.702 -45.667  1.00 54.02      HS8
ATOM  41421  CG  LYS H  56     132.307 126.774 -46.854  1.00 54.02      HS8
ATOM  41422  CD  LYS H  56     132.845 127.381 -48.118  1.00 54.02      HS8
ATOM  41423  CE  LYS H  56     132.922 126.333 -49.208  1.00 54.02      HS8
ATOM  41424  NZ  LYS H  56     133.818 126.793 -50.297  1.00 54.02      HS8
ATOM  41425  C   LYS H  56     131.268 129.352 -44.238  1.00 46.21      HS8
ATOM  41426  O   LYS H  56     132.032 130.137 -43.694  1.00 46.21      HS8
ATOM  41427  N   PRO H  57     130.207 128.847 -43.610  1.00 39.61      HS8
ATOM  41428  CD  PRO H  57     129.407 127.773 -44.228  1.00 46.90      HS8
ATOM  41429  CA  PRO H  57     129.731 129.123 -42.252  1.00 39.61      HS8
ATOM  41430  CB  PRO H  57     128.440 128.315 -42.187  1.00 46.90      HS8
ATOM  41431  CG  PRO H  57     128.764 127.129 -43.037  1.00 46.90      HS8
ATOM  41432  C   PRO H  57     130.631 128.821 -41.061  1.00 39.61      HS8
ATOM  41433  O   PRO H  57     130.819 127.661 -40.693  1.00 39.61      HS8
ATOM  41434  N   TYR H  58     131.159 129.868 -40.441  1.00 34.99      HS8
ATOM  41435  CA  TYR H  58     131.999 129.707 -39.258  1.00 34.99      HS8
ATOM  41436  CB  TYR H  58     133.323 130.442 -39.439  1.00 63.30      HS8
ATOM  41437  CG  TYR H  58     134.280 129.666 -40.285  1.00 63.30      HS8
ATOM  41438  CD1 TYR H  58     134.016 129.443 -41.629  1.00 63.30      HS8
ATOM  41439  CE1 TYR H  58     134.829 128.629 -42.390  1.00 63.30      HS8
ATOM  41440  CD2 TYR H  58     135.395 129.063 -39.721  1.00 63.30      HS8
ATOM  41441  CE2 TYR H  58     136.215 128.246 -40.473  1.00 63.30      HS8
ATOM  41442  CZ  TYR H  58     135.926 128.029 -41.807  1.00 63.30      HS8
ATOM  41443  OH  TYR H  58     136.721 127.193 -42.553  1.00 63.30      HS8
ATOM  41444  C   TYR H  58     131.267 130.243 -38.035  1.00 34.99      HS8
ATOM  41445  O   TYR H  58     130.075 130.523 -38.112  1.00 34.99      HS8
ATOM  41446  N   LEU H  59     131.964 130.377 -36.912  1.00 42.71      HS8
ATOM  41447  CA  LEU H  59     131.338 130.892 -35.698  1.00 42.71      HS8
ATOM  41448  CB  LEU H  59     130.844 129.740 -34.807  1.00 18.62      HS8
ATOM  41449  CG  LEU H  59     129.652 128.891 -35.281  1.00 18.62      HS8
ATOM  41450  CD1 LEU H  59     129.643 127.508 -34.652  1.00 18.62      HS8
ATOM  41451  CD2 LEU H  59     128.385 129.631 -34.930  1.00 18.62      HS8
ATOM  41452  C   LEU H  59     132.328 131.724 -34.914  1.00 42.71      HS8
ATOM  41453  O   LEU H  59     133.159 131.177 -34.194  1.00 42.71      HS8
ATOM  41454  N   ARG H  60     132.269 133.042 -35.049  1.00 36.07      HS8
ATOM  41455  CA  ARG H  60     133.192 133.864 -34.278  1.00 36.07      HS8
ATOM  41456  CB  ARG H  60     132.936 135.352 -34.487  1.00 62.24      HS8
ATOM  41457  CG  ARG H  60     133.429 135.892 -35.787  1.00 62.24      HS8
ATOM  41458  CD  ARG H  60     134.904 136.207 -35.766  1.00 62.24      HS8
ATOM  41459  NE  ARG H  60     135.391 136.258 -37.138  1.00 62.24      HS8
ATOM  41460  CZ  ARG H  60     134.813 136.958 -38.113  1.00 62.24      HS8
ATOM  41461  NH1 ARG H  60     133.726 137.677 -37.864  1.00 62.24      HS8
ATOM  41462  NH2 ARG H  60     135.306 136.919 -39.347  1.00 62.24      HS8
ATOM  41463  C   ARG H  60     132.945 133.554 -32.821  1.00 36.07      HS8
ATOM  41464  O   ARG H  60     131.807 133.486 -32.386  1.00 36.07      HS8
ATOM  41465  N   VAL H  61     134.000 133.340 -32.063  1.00 41.88      HS8
ATOM  41466  CA  VAL H  61     133.815 133.096 -30.652  1.00 41.88      HS8
ATOM  41467  CB  VAL H  61     134.403 131.728 -30.225  1.00 19.86      HS8
ATOM  41468  CG1 VAL H  61     134.341 131.582 -28.690  1.00 19.86      HS8
ATOM  41469  CG2 VAL H  61     133.623 130.606 -30.900  1.00 19.86      HS8
ATOM  41470  C   VAL H  61     134.572 134.238 -30.007  1.00 41.88      HS8
ATOM  41471  O   VAL H  61     135.763 134.406 -30.264  1.00 41.88      HS8
ATOM  41472  N   TYR H  62     133.880 135.048 -29.207  1.00 25.08      HS8
ATOM  41473  CA  TYR H  62     134.537 136.180 -28.552  1.00 25.08      HS8
ATOM  41474  CB  TYR H  62     133.600 137.377 -28.488  1.00 39.22      HS8
ATOM  41475  CG  TYR H  62     133.273 137.909 -29.851  1.00 39.22      HS8
ATOM  41476  CD1 TYR H  62     134.081 138.856 -30.458  1.00 39.22      HS8
ATOM  41477  CE1 TYR H  62     133.818 139.295 -31.747  1.00 39.22      HS8
ATOM  41478  CD2 TYR H  62     132.191 137.413 -30.562  1.00 39.22      HS8
ATOM  41479  CE2 TYR H  62     131.921 137.840 -31.849  1.00 39.22      HS8
ATOM  41480  CZ  TYR H  62     132.734 138.778 -32.437  1.00 39.22      HS8
ATOM  41481  OH  TYR H  62     132.464 139.190 -33.722  1.00 39.22      HS8
ATOM  41482  C   TYR H  62     134.992 135.784 -27.173  1.00 25.08      HS8
ATOM  41483  O   TYR H  62     134.189 135.457 -26.308  1.00 25.08      HS8
ATOM  41484  N   LEU H  63     136.300 135.813 -26.983  1.00 32.33      HS8
ATOM  41485  CA  LEU H  63     136.888 135.406 -25.726  1.00 32.33      HS8
ATOM  41486  CB  LEU H  63     138.318 134.898 -25.954  1.00 31.58      HS8
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ATOM  41487  CG  LEU H  63     138.500 133.825 -27.030  1.00 31.58      HS8
ATOM  41488  CD1 LEU H  63     137.470 132.717 -26.878  1.00 31.58      HS8
ATOM  41489  CD2 LEU H  63     138.356 134.481 -28.373  1.00 31.58      HS8
ATOM  41490  C   LEU H  63     136.885 136.516 -24.708  1.00 32.33      HS8
ATOM  41491  O   LEU H  63     136.842 137.699 -25.058  1.00 32.33      HS8
ATOM  41492  N   LYS H  64     136.951 136.115 -23.445  1.00 47.09      HS8
ATOM  41493  CA  LYS H  64     136.933 137.049 -22.338  1.00 47.09      HS8
ATOM  41494  CB  LYS H  64     135.593 136.923 -21.606  1.00102.55      HS8
ATOM  41495  CG  LYS H  64     135.350 137.950 -20.519  1.00102.55      HS8
ATOM  41496  CD  LYS H  64     133.906 137.897 -20.008  1.00102.55      HS8
ATOM  41497  CE  LYS H  64     133.562 136.551 -19.373  1.00102.55      HS8
ATOM  41498  NZ  LYS H  64     132.205 136.539 -18.757  1.00102.55      HS8
ATOM  41499  C   LYS H  64     138.081 136.736 -21.402  1.00 47.09      HS8
ATOM  41500  O   LYS H  64     138.324 135.576 -21.102  1.00 47.09      HS8
ATOM  41501  N   TYR H  65     138.790 137.765 -20.950  1.00 43.58      HS8
ATOM  41502  CA  TYR H  65     139.919 137.583 -20.037  1.00 43.58      HS8
ATOM  41503  CB  TYR H  65     141.233 137.972 -20.724  1.00 36.44      HS8
ATOM  41504  CG  TYR H  65     141.382 137.343 -22.087  1.00 36.44      HS8
ATOM  41505  CD1 TYR H  65     140.758 137.900 -23.195  1.00 36.44      HS8
ATOM  41506  CE1 TYR H  65     140.819 137.298 -24.443  1.00 36.44      HS8
ATOM  41507  CD2 TYR H  65     142.080 136.156 -22.260  1.00 36.44      HS8
ATOM  41508  CE2 TYR H  65     142.144 135.535 -23.510  1.00 36.44      HS8
ATOM  41509  CZ  TYR H  65     141.506 136.119 -24.594  1.00 36.44      HS8
ATOM  41510  OH  TYR H  65     141.524 135.523 -25.828  1.00 36.44      HS8
ATOM  41511  C   TYR H  65     139.717 138.441 -18.807  1.00 43.58      HS8
ATOM  41512  O   TYR H  65     138.749 139.180 -18.730  1.00 43.58      HS8
ATOM  41513  N   GLY H  66     140.620 138.331 -17.839  1.00 37.32      HS8
ATOM  41514  CA  GLY H  66     140.511 139.136 -16.638  1.00 37.32      HS8
ATOM  41515  C   GLY H  66     141.154 140.488 -16.899  1.00 37.32      HS8
ATOM  41516  O   GLY H  66     141.241 140.925 -18.050  1.00 37.32      HS8
ATOM  41517  N   PRO H  67     141.607 141.189 -15.856  1.00 64.65      HS8
ATOM  41518  CD  PRO H  67     141.133 141.027 -14.472  1.00 39.22      HS8
ATOM  41519  CA  PRO H  67     142.245 142.498 -16.024  1.00 64.65      HS8
ATOM  41520  CB  PRO H  67     141.744 143.259 -14.808  1.00 39.22      HS8
ATOM  41521  CG  PRO H  67     141.780 142.210 -13.767  1.00 39.22      HS8
ATOM  41522  C   PRO H  67     143.775 142.421 -16.047  1.00 64.65      HS8
ATOM  41523  O   PRO H  67     144.356 141.439 -15.586  1.00 64.65      HS8
ATOM  41524  N   ARG H  68     144.411 143.462 -16.582  1.00 50.86      HS8
ATOM  41525  CA  ARG H  68     145.872 143.556 -16.637  1.00 50.86      HS8
ATOM  41526  CB  ARG H  68     146.269 144.904 -17.238  1.00 85.39      HS8
ATOM  41527  CG  ARG H  68     147.730 145.063 -17.607  1.00 85.39      HS8
ATOM  41528  CD  ARG H  68     147.863 146.217 -18.596  1.00 85.39      HS8
ATOM  41529  NE  ARG H  68     149.230 146.467 -19.039  1.00 85.39      HS8
ATOM  41530  CZ  ARG H  68     150.244 146.712 -18.217  1.00 85.39      HS8
ATOM  41531  NH1 ARG H  68     150.054 146.734 -16.898  1.00 85.39      HS8
ATOM  41532  NH2 ARG H  68     151.449 146.952 -18.714  1.00 85.39      HS8
ATOM  41533  C   ARG H  68     146.412 143.422 -15.199  1.00 50.86      HS8
ATOM  41534  O   ARG H  68     145.781 143.893 -14.245  1.00 50.86      HS8
ATOM  41535  N   ARG H  69     147.579 142.806 -15.035  1.00 32.24      HS8
ATOM  41536  CA  ARG H  69     148.087 142.590 -13.693  1.00 32.24      HS8
ATOM  41537  CB  ARG H  69     148.198 141.079 -13.475  1.00104.77      HS8
ATOM  41538  CG  ARG H  69     146.882 140.393 -13.851  1.00104.77      HS8
ATOM  41539  CD  ARG H  69     146.791 138.924 -13.497  1.00104.77      HS8
ATOM  41540  NE  ARG H  69     147.737 138.114 -14.247  1.00104.77      HS8
ATOM  41541  CZ  ARG H  69     148.937 137.774 -13.793  1.00104.77      HS8
ATOM  41542  NH1 ARG H  69     149.322 138.179 -12.589  1.00104.77      HS8
ATOM  41543  NH2 ARG H  69     149.749 137.032 -14.537  1.00104.77      HS8
ATOM  41544  C   ARG H  69     149.376 143.327 -13.330  1.00 32.24      HS8
ATOM  41545  O   ARG H  69     150.122 143.762 -14.200  1.00 32.24      HS8
ATOM  41546  N   GLN H  70     149.626 143.501 -12.038  1.00 63.57      HS8
ATOM  41547  CA  GLN H  70     150.821 144.213 -11.617  1.00 63.57      HS8
ATOM  41548  CB  GLN H  70     150.651 144.725 -10.183  1.00117.10      HS8
ATOM  41549  CG  GLN H  70     149.481 145.683 -10.019  1.00117.10      HS8
ATOM  41550  CD  GLN H  70     149.417 146.717 -11.132  1.00117.10      HS8
ATOM  41551  OE1 GLN H  70     150.351 147.490 -11.331  1.00117.10      HS8
ATOM  41552  NE2 GLN H  70     148.311 146.731 -11.865  1.00117.10      HS8
ATOM  41553  C   GLN H  70     152.045 143.318 -11.729  1.00 63.57      HS8
ATOM  41554  O   GLN H  70     151.916 142.140 -12.054  1.00 63.57      HS8
ATOM  41555  N   GLY H  71     153.229 143.877 -11.470  1.00 63.31      HS8
ATOM  41556  CA  GLY H  71     154.466 143.111 -11.558  1.00 63.31      HS8
ATOM  41557  C   GLY H  71     154.794 142.757 -12.996  1.00 63.31      HS8
ATOM  41558  O   GLY H  71     154.249 143.367 -13.917  1.00 63.31      HS8
ATOM  41559  N   PRO H  72     155.697 141.796 -13.235  1.00 55.09      HS8
ATOM  41560  CD  PRO H  72     156.608 141.110 -12.303  1.00 27.49      HS8
ATOM  41561  CA  PRO H  72     156.004 141.449 -14.629  1.00 55.09      HS8
ATOM  41562  CB  PRO H  72     157.358 140.786 -14.530  1.00 27.49      HS8
ATOM  41563  CG  PRO H  72     157.257 140.069 -13.210  1.00 27.49      HS8
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ATOM  41564  C   PRO H  72     154.941 140.506 -15.155  1.00 55.09      HS8
ATOM  41565  O   PRO H  72     154.158 139.932 -14.383  1.00 55.09      HS8
ATOM  41566  N   ASP H  73     154.924 140.326 -16.467  1.00 69.52      HS8
ATOM  41567  CA  ASP H  73     153.915 139.478 -17.091  1.00 69.52      HS8
ATOM  41568  CB  ASP H  73     154.106 138.004 -16.748  1.00 67.22      HS8
ATOM  41569  CG  ASP H  73     153.183 137.118 -17.554  1.00 67.22      HS8
ATOM  41570  OD1 ASP H  73     153.201 135.880 -17.364  1.00 67.22      HS8
ATOM  41571  OD2 ASP H  73     152.436 137.682 -18.389  1.00 67.22      HS8
ATOM  41572  C   ASP H  73     152.546 139.932 -16.602  1.00 69.52      HS8
ATOM  41573  O   ASP H  73     151.922 139.300 -15.746  1.00 69.52      HS8
ATOM  41574  N   PRO H  74     152.072 141.057 -17.147  1.00 54.10      HS8
ATOM  41575  CD  PRO H  74     152.783 141.835 -18.177  1.00 48.84      HS8
ATOM  41576  CA  PRO H  74     150.799 141.690 -16.841  1.00 54.10      HS8
ATOM  41577  CB  PRO H  74     151.011 143.095 -17.358  1.00 48.84      HS8
ATOM  41578  CG  PRO H  74     151.722 142.821 -18.627  1.00 48.84      HS8
ATOM  41579  C   PRO H  74     149.650 141.008 -17.552  1.00 54.10      HS8
ATOM  41580  O   PRO H  74     148.516 141.467 -17.477  1.00 54.10      HS8
ATOM  41581  N   ARG H  75     149.928 139.915 -18.248  1.00 29.49      HS8
ATOM  41582  CA  ARG H  75     148.850 139.252 -18.954  1.00 29.49      HS8
ATOM  41583  CB  ARG H  75     149.372 138.056 -19.733  1.00 58.39      HS8
ATOM  41584  CG  ARG H  75     150.128 138.474 -20.985  1.00 58.39      HS8
ATOM  41585  CD  ARG H  75     150.849 137.298 -21.620  1.00 58.39      HS8
ATOM  41586  NE  ARG H  75     151.770 136.660 -20.683  1.00 58.39      HS8
ATOM  41587  CZ  ARG H  75     152.306 135.466 -20.880  1.00 58.39      HS8
ATOM  41588  NH1 ARG H  75     152.009 134.796 -21.982  1.00 58.39      HS8
ATOM  41589  NH2 ARG H  75     153.113 134.941 -19.973  1.00 58.39      HS8
ATOM  41590  C   ARG H  75     147.745 138.855 -18.001  1.00 29.49      HS8
ATOM  41591  O   ARG H  75     147.974 138.233 -16.966  1.00 29.49      HS8
ATOM  41592  N   PRO H  76     146.519 139.231 -18.349  1.00 22.90      HS8
ATOM  41593  CD  PRO H  76     146.184 139.657 -19.710  1.00 46.25      HS8
ATOM  41594  CA  PRO H  76     145.305 138.972 -17.588  1.00 22.90      HS8
ATOM  41595  CB  PRO H  76     144.196 139.317 -18.568  1.00 46.25      HS8
ATOM  41596  CG  PRO H  76     144.843 140.252 -19.506  1.00 46.25      HS8
ATOM  41597  C   PRO H  76     145.210 137.525 -17.176  1.00 22.90      HS8
ATOM  41598  O   PRO H  76     145.891 136.655 -17.740  1.00 22.90      HS8
ATOM  41599  N   GLU H  77     144.357 137.275 -16.185  1.00 40.10      HS8
ATOM  41600  CA  GLU H  77     144.116 135.923 -15.731  1.00 40.10      HS8
ATOM  41601  CB  GLU H  77     143.370 135.913 -14.391  1.00 72.81      HS8
ATOM  41602  CG  GLU H  77     142.601 134.625 -14.118  1.00 72.81      HS8
ATOM  41603  CD  GLU H  77     142.570 134.236 -12.650  1.00 72.81      HS8
ATOM  41604  OE1 GLU H  77     142.479 135.133 -11.787  1.00 72.81      HS8
ATOM  41605  OE2 GLU H  77     142.622 133.023 -12.358  1.00 72.81      HS8
ATOM  41606  C   GLU H  77     143.240 135.398 -16.846  1.00 40.10      HS8
ATOM  41607  O   GLU H  77     142.827 136.150 -17.719  1.00 40.10      HS8
ATOM  41608  N   GLN H  78     142.973 134.111 -16.842  1.00 33.91      HS8
ATOM  41609  CA  GLN H  78     142.141 133.542 -17.879  1.00 33.91      HS8
ATOM  41610  CB  GLN H  78     142.817 132.293 -18.440  1.00 44.07      HS8
ATOM  41611  CG  GLN H  78     143.973 132.596 -19.356  1.00 44.07      HS8
ATOM  41612  CD  GLN H  78     143.518 132.765 -20.788  1.00 44.07      HS8
ATOM  41613  OE1 GLN H  78     142.320 132.751 -21.069  1.00 44.07      HS8
ATOM  41614  NE2 GLN H  78     144.471 132.921 -21.704  1.00 44.07      HS8
ATOM  41615  C   GLN H  78     140.778 133.189 -17.311  1.00 33.91      HS8
ATOM  41616  O   GLN H  78     140.687 132.595 -16.241  1.00 33.91      HS8
ATOM  41617  N   VAL H  79     139.721 133.583 -18.011  1.00 42.20      HS8
ATOM  41618  CA  VAL H  79     138.382 133.243 -17.568  1.00 42.20      HS8
ATOM  41619  CB  VAL H  79     137.320 133.932 -18.438  1.00 47.68      HS8
ATOM  41620  CG1 VAL H  79     135.964 133.336 -18.180  1.00 47.68      HS8
ATOM  41621  CG2 VAL H  79     137.293 135.408 -18.141  1.00 47.68      HS8
ATOM  41622  C   VAL H  79     138.303 131.722 -17.738  1.00 42.20      HS8
ATOM  41623  O   VAL H  79     137.887 131.007 -16.812  1.00 42.20      HS8
ATOM  41624  N   ILE H  80     138.721 131.241 -18.917  1.00 40.23      HS8
ATOM  41625  CA  ILE H  80     138.747 129.809 -19.219  1.00 40.23      HS8
ATOM  41626  CB  ILE H  80     138.480 129.526 -20.697  1.00 24.68      HS8
ATOM  41627  CG2 ILE H  80     138.785 128.084 -21.002  1.00 24.68      HS8
ATOM  41628  CG1 ILE H  80     137.018 129.765 -21.041  1.00 24.68      HS8
ATOM  41629  CD1 ILE H  80     136.676 129.369 -22.490  1.00 24.68      HS8
ATOM  41630  C   ILE H  80     140.124 129.218 -18.892  1.00 40.23      HS8
ATOM  41631  O   ILE H  80     140.958 128.989 -19.778  1.00 40.23      HS8
ATOM  41632  N   HIS H  81     140.371 128.981 -17.614  1.00 60.00      HS8
ATOM  41633  CA  HIS H  81     141.639 128.419 -17.205  1.00 60.00      HS8
ATOM  41634  CB  HIS H  81     141.664 128.157 -15.709  1.00 48.33      HS8
ATOM  41635  CG  HIS H  81     141.377 129.354 -14.868  1.00 48.33      HS8
ATOM  41636  CD2 HIS H  81     142.144 130.011 -13.966  1.00 48.33      HS8
ATOM  41637  ND1 HIS H  81     140.155 129.985 -14.867  1.00 48.33      HS8
ATOM  41638  CE1 HIS H  81     140.181 130.980 -14.000  1.00 48.33      HS8
ATOM  41639  NE2 HIS H  81     141.377 131.019 -13.441  1.00 48.33      HS8
ATOM  41640  C   HIS H  81     141.832 127.072 -17.868  1.00 60.00      HS8
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ATOM  41641  O   HIS H  81     142.901 126.763 -18.386  1.00 60.00      HS8
ATOM  41642  N   HIS H  82     140.773 126.274 -17.839  1.00 49.52      HS8
ATOM  41643  CA  HIS H  82     140.809 124.909 -18.336  1.00 49.52      HS8
ATOM  41644  CB  HIS H  82     140.936 124.014 -17.096  1.00 57.95      HS8
ATOM  41645  CG  HIS H  82     140.867 122.546 -17.365  1.00 57.95      HS8
ATOM  41646  CD2 HIS H  82     140.487 121.844 -18.457  1.00 57.95      HS8
ATOM  41647  ND1 HIS H  82     141.167 121.613 -16.397  1.00 57.95      HS8
ATOM  41648  CE1 HIS H  82     140.973 120.400 -16.880  1.00 57.95      HS8
ATOM  41649  NE2 HIS H  82     140.559 120.511 -18.129  1.00 57.95      HS8
ATOM  41650  C   HIS H  82     139.603 124.526 -19.196  1.00 49.52      HS8
ATOM  41651  O   HIS H  82     138.471 124.910 -18.925  1.00 49.52      HS8
ATOM  41652  N   ILE H  83     139.856 123.765 -20.243  1.00 35.19      HS8
ATOM  41653  CA  ILE H  83     138.797 123.322 -21.123  1.00 35.19      HS8
ATOM  41654  CB  ILE H  83     138.466 124.422 -22.170  1.00 44.75      HS8
ATOM  41655  CG2 ILE H  83     139.714 124.895 -22.859  1.00 44.75      HS8
ATOM  41656  CG1 ILE H  83     137.500 123.887 -23.223  1.00 44.75      HS8
ATOM  41657  CD1 ILE H  83     137.104 124.934 -24.260  1.00 44.75      HS8
ATOM  41658  C   ILE H  83     139.314 122.061 -21.804  1.00 35.19      HS8
ATOM  41659  O   ILE H  83     140.137 122.148 -22.710  1.00 35.19      HS8
ATOM  41660  N   ARG H  84     138.851 120.889 -21.373  1.00 40.66      HS8
ATOM  41661  CA  ARG H  84     139.338 119.641 -21.961  1.00 40.66      HS8
ATOM  41662  CB  ARG H  84     140.299 118.976 -20.983  1.00 98.75      HS8
ATOM  41663  CG  ARG H  84     141.009 117.783 -21.562  1.00 98.75      HS8
ATOM  41664  CD  ARG H  84     141.523 116.879 -20.467  1.00 98.75      HS8
ATOM  41665  NE  ARG H  84     140.435 116.398 -19.625  1.00 98.75      HS8
ATOM  41666  CZ  ARG H  84     140.540 115.362 -18.804  1.00 98.75      HS8
ATOM  41667  NH1 ARG H  84     141.688 114.702 -18.720  1.00 98.75      HS8
ATOM  41668  NH2 ARG H  84     139.501 114.982 -18.072  1.00 98.75      HS8
ATOM  41669  C   ARG H  84     138.279 118.614 -22.372  1.00 40.66      HS8
ATOM  41670  O   ARG H  84     137.343 118.365 -21.617  1.00 40.66      HS8
ATOM  41671  N   ARG H  85     138.432 118.011 -23.556  1.00 31.82      HS8
ATOM  41672  CA  ARG H  85     137.494 116.980 -24.024  1.00 31.82      HS8
ATOM  41673  CB  ARG H  85     137.820 116.514 -25.425  1.00 40.42      HS8
ATOM  41674  CG  ARG H  85     136.978 117.135 -26.464  1.00 40.42      HS8
ATOM  41675  CD  ARG H  85     136.362 116.093 -27.357  1.00 40.42      HS8
ATOM  41676  NE  ARG H  85     135.066 115.640 -26.873  1.00 40.42      HS8
ATOM  41677  CZ  ARG H  85     134.113 115.188 -27.681  1.00 40.42      HS8
ATOM  41678  NH1 ARG H  85     134.336 115.148 -28.992  1.00 40.42      HS8
ATOM  41679  NH2 ARG H  85     132.953 114.769 -27.188  1.00 40.42      HS8
ATOM  41680  C   ARG H  85     137.529 115.742 -23.156  1.00 31.82      HS8
ATOM  41681  O   ARG H  85     138.580 115.346 -22.651  1.00 31.82      HS8
ATOM  41682  N   ILE H  86     136.382 115.102 -23.011  1.00 38.29      HS8
ATOM  41683  CA  ILE H  86     136.304 113.904 -22.202  1.00 38.29      HS8
ATOM  41684  CB  ILE H  86     135.308 114.114 -21.052  1.00 39.11      HS8
ATOM  41685  CG2 ILE H  86     134.904 112.782 -20.431  1.00 39.11      HS8
ATOM  41686  CG1 ILE H  86     135.971 115.047 -20.031  1.00 39.11      HS8
ATOM  41687  CD1 ILE H  86     135.075 115.601 -18.991  1.00 39.11      HS8
ATOM  41688  C   ILE H  86     135.921 112.764 -23.109  1.00 38.29      HS8
ATOM  41689  O   ILE H  86     136.780 111.982 -23.509  1.00 38.29      HS8
ATOM  41690  N   SER H  87     134.648 112.654 -23.447  1.00 28.65      HS8
ATOM  41691  CA  SER H  87     134.258 111.599 -24.364  1.00 28.65      HS8
ATOM  41692  CB  SER H  87     132.740 111.621 -24.593  1.00 22.28      HS8
ATOM  41693  OG  SER H  87     132.319 110.648 -25.536  1.00 22.28      HS8
ATOM  41694  C   SER H  87     134.996 111.960 -25.655  1.00 28.65      HS8
ATOM  41695  O   SER H  87     135.260 113.137 -25.905  1.00 28.65      HS8
ATOM  41696  N   LYS H  88     135.358 110.956 -26.448  1.00 31.86      HS8
ATOM  41697  CA  LYS H  88     136.038 111.183 -27.722  1.00 31.86      HS8
ATOM  41698  CB  LYS H  88     137.549 111.224 -27.570  1.00 40.51      HS8
ATOM  41699  CG  LYS H  88     138.071 111.822 -26.320  1.00 40.51      HS8
ATOM  41700  CD  LYS H  88     139.566 111.673 -26.323  1.00 40.51      HS8
ATOM  41701  CE  LYS H  88     140.170 112.381 -25.150  1.00 40.51      HS8
ATOM  41702  NZ  LYS H  88     141.633 112.172 -25.121  1.00 40.51      HS8
ATOM  41703  C   LYS H  88     135.743 110.001 -28.621  1.00 31.86      HS8
ATOM  41704  O   LYS H  88     135.381 108.928 -28.142  1.00 31.86      HS8
ATOM  41705  N   PRO H  89     135.900 110.175 -29.939  1.00 38.52      HS8
ATOM  41706  CD  PRO H  89     136.443 111.303 -30.708  1.00 22.25      HS8
ATOM  41707  CA  PRO H  89     135.630 109.035 -30.807  1.00 38.52      HS8
ATOM  41708  CB  PRO H  89     135.937 109.592 -32.190  1.00 22.25      HS8
ATOM  41709  CG  PRO H  89     136.979 110.617 -31.913  1.00 22.25      HS8
ATOM  41710  C   PRO H  89     136.622 107.978 -30.352  1.00 38.52      HS8
ATOM  41711  O   PRO H  89     137.638 108.313 -29.753  1.00 38.52      HS8
ATOM  41712  N   GLY H  90     136.353 106.708 -30.601  1.00 45.93      HS8
ATOM  41713  CA  GLY H  90     137.306 105.722 -30.133  1.00 45.93      HS8
ATOM  41714  C   GLY H  90     137.561 105.845 -28.636  1.00 45.93      HS8
ATOM  41715  O   GLY H  90     138.704 105.864 -28.198  1.00 45.93      HS8
ATOM  41716  N   ARG H  91     136.462 105.961 -27.886  1.00 27.05      HS8
ATOM  41717  CA  ARG H  91     136.347 106.044 -26.417  1.00 27.05      HS8
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ATOM  41718  CB  ARG H  91     137.664 106.273 -25.700  1.00 29.62      HS8
ATOM  41719  CG  ARG H  91     137.882 105.274 -24.551  1.00 29.62      HS8
ATOM  41720  CD  ARG H  91     137.312 105.719 -23.207  1.00 29.62      HS8
ATOM  41721  NE  ARG H  91     138.331 105.599 -22.149  1.00 29.62      HS8
ATOM  41722  CZ  ARG H  91     138.175 104.958 -20.986  1.00 29.62      HS8
ATOM  41723  NH1 ARG H  91     137.037 104.362 -20.684  1.00 29.62      HS8
ATOM  41724  NH2 ARG H  91     139.171 104.890 -20.126  1.00 29.62      HS8
ATOM  41725  C   ARG H  91     135.359 107.089 -25.983  1.00 27.05      HS8
ATOM  41726  O   ARG H  91     135.715 108.123 -25.426  1.00 27.05      HS8
ATOM  41727  N   ARG H  92     134.100 106.781 -26.273  1.00 21.23      HS8
ATOM  41728  CA  ARG H  92     132.962 107.604 -25.934  1.00 21.23      HS8
ATOM  41729  CB  ARG H  92     131.747 107.133 -26.738  1.00 22.41      HS8
ATOM  41730  CG  ARG H  92     131.770 107.584 -28.171  1.00 22.41      HS8
ATOM  41731  CD  ARG H  92     132.040 109.072 -28.134  1.00 22.41      HS8
ATOM  41732  NE  ARG H  92     131.716 109.855 -29.329  1.00 22.41      HS8
ATOM  41733  CZ  ARG H  92     132.034 109.501 -30.560  1.00 22.41      HS8
ATOM  41734  NH1 ARG H  92     132.666 108.345 -30.763  1.00 22.41      HS8
ATOM  41735  NH2 ARG H  92     131.805 110.335 -31.571  1.00 22.41      HS8
ATOM  41736  C   ARG H  92     132.724 107.434 -24.438  1.00 21.23      HS8
ATOM  41737  O   ARG H  92     132.939 106.359 -23.893  1.00 21.23      HS8
ATOM  41738  N   VAL H  93     132.287 108.493 -23.770  1.00 38.33      HS8
ATOM  41739  CA  VAL H  93     132.043 108.427 -22.335  1.00 38.33      HS8
ATOM  41740  CB  VAL H  93     133.034 109.325 -21.592  1.00  9.71      HS8
ATOM  41741  CG1 VAL H  93     132.928 109.113 -20.110  1.00  9.71      HS8
ATOM  41742  CG2 VAL H  93     134.401 109.018 -22.035  1.00  9.71      HS8
ATOM  41743  C   VAL H  93     130.615 108.828 -21.958  1.00 38.33      HS8
ATOM  41744  O   VAL H  93     130.168 109.940 -22.241  1.00 38.33      HS8
ATOM  41745  N   TYR H  94     129.909 107.909 -21.307  1.00 32.88      HS8
ATOM  41746  CA  TYR H  94     128.528 108.140 -20.882  1.00 32.88      HS8
ATOM  41747  CB  TYR H  94     127.617 107.117 -21.553  1.00 32.54      HS8
ATOM  41748  CG  TYR H  94     127.776 107.072 -23.048  1.00 32.54      HS8
ATOM  41749  CD1 TYR H  94     128.221 105.929 -23.691  1.00 32.54      HS8
ATOM  41750  CE1 TYR H  94     128.342 105.891 -25.077  1.00 32.54      HS8
ATOM  41751  CD2 TYR H  94     127.463 108.176 -23.819  1.00 32.54      HS8
ATOM  41752  CE2 TYR H  94     127.584 108.152 -25.193  1.00 32.54      HS8
ATOM  41753  CZ  TYR H  94     128.018 107.012 -25.821  1.00 32.54      HS8
ATOM  41754  OH  TYR H  94     128.095 107.017 -27.197  1.00 32.54      HS8
ATOM  41755  C   TYR H  94     128.387 108.003 -19.376  1.00 32.88      HS8
ATOM  41756  O   TYR H  94     129.140 107.283 -18.750  1.00 32.88      HS8
ATOM  41757  N   VAL H  95     127.438 108.701 -18.783  1.00 29.79      HS8
ATOM  41758  CA  VAL H  95     127.231 108.560 -17.347  1.00 29.79      HS8
ATOM  41759  CB  VAL H  95     128.096 109.539 -16.520  1.00 25.20      HS8
ATOM  41760  CG1 VAL H  95     129.560 109.313 -16.815  1.00 25.20      HS8
ATOM  41761  CG2 VAL H  95     127.695 110.961 -16.807  1.00 25.20      HS8
ATOM  41762  C   VAL H  95     125.777 108.784 -16.968  1.00 29.79      HS8
ATOM  41763  O   VAL H  95     125.059 109.549 -17.619  1.00 29.79      HS8
ATOM  41764  N   GLY H  96     125.337 108.090 -15.929  1.00 35.60      HS8
ATOM  41765  CA  GLY H  96     123.977 108.265 -15.468  1.00 35.60      HS8
ATOM  41766  C   GLY H  96     123.988 109.506 -14.604  1.00 35.60      HS8
ATOM  41767  O   GLY H  96     125.057 109.961 -14.200  1.00 35.60      HS8
ATOM  41768  N   VAL H  97     122.825 110.074 -14.323  1.00 47.48      HS8
ATOM  41769  CA  VAL H  97     122.786 111.273 -13.492  1.00 47.48      HS8
ATOM  41770  CB  VAL H  97     121.335 111.672 -13.172  1.00 32.57      HS8
ATOM  41771  CG1 VAL H  97     120.730 110.689 -12.188  1.00 32.57      HS8
ATOM  41772  CG2 VAL H  97     121.293 113.073 -12.634  1.00 32.57      HS8
ATOM  41773  C   VAL H  97     123.532 110.986 -12.187  1.00 47.48      HS8
ATOM  41774  O   VAL H  97     124.083 111.889 -11.554  1.00 47.48      HS8
ATOM  41775  N   LYS H  98     123.548 109.712 -11.808  1.00 42.45      HS8
ATOM  41776  CA  LYS H  98     124.212 109.265 -10.597  1.00 42.45      HS8
ATOM  41777  CB  LYS H  98     123.944 107.775 -10.378  1.00188.75      HS8
ATOM  41778  CG  LYS H  98     122.583 107.295 -10.861  1.00188.75      HS8
ATOM  41779  CD  LYS H  98     122.475 105.775 -10.766  1.00188.75      HS8
ATOM  41780  CE  LYS H  98     121.177 105.255 -11.373  1.00188.75      HS8
ATOM  41781  NZ  LYS H  98     119.963 105.777 -10.683  1.00188.75      HS8
ATOM  41782  C   LYS H  98     125.725 109.480 -10.718  1.00 42.45      HS8
ATOM  41783  O   LYS H  98     126.399 109.751  -9.726  1.00 42.45      HS8
ATOM  41784  N   GLU H  99     126.245 109.361 -11.941  1.00 55.28      HS8
ATOM  41785  CA  GLU H  99     127.679 109.488 -12.213  1.00 55.28      HS8
ATOM  41786  CB  GLU H  99     128.107 108.400 -13.196  1.00112.27      HS8
ATOM  41787  CG  GLU H  99     127.788 106.987 -12.762  1.00112.27      HS8
ATOM  41788  CD  GLU H  99     127.885 106.007 -13.916  1.00112.27      HS8
ATOM  41789  OE1 GLU H  99     127.045 106.087 -14.839  1.00112.27      HS8
ATOM  41790  OE2 GLU H  99     128.805 105.163 -13.907  1.00112.27      HS8
ATOM  41791  C   GLU H  99     128.170 110.832 -12.754  1.00 55.28      HS8
ATOM  41792  O   GLU H  99     129.371 111.019 -12.951  1.00 55.28      HS8
ATOM  41793  N   ILE H 100     127.259 111.758 -13.024  1.00 39.38      HS8
ATOM  41794  CA  ILE H 100     127.667 113.063 -13.528  1.00 39.38      HS8
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ATOM  41795  CB  ILE H 100     126.513 114.050 -13.537  1.00 40.76       HS8
ATOM  41796  CG2 ILE H 100     127.026 115.406 -13.940  1.00 40.76       HS8
ATOM  41797  CG1 ILE H 100     125.418 113.569 -14.486  1.00 40.76       HS8
ATOM  41798  CD1 ILE H 100     124.205 114.470 -14.526  1.00 40.76       HS8
ATOM  41799  C   ILE H 100     128.726 113.611 -12.597  1.00 39.38       HS8
ATOM  41800  O   ILE H 100     128.499 113.731 -11.405  1.00 39.38       HS8
ATOM  41801  N   PRO H 101     129.899 113.953 -13.127  1.00 41.61       HS8
ATOM  41802  CD  PRO H 101     130.287 113.907 -14.545  1.00 53.57       HS8
ATOM  41803  CA  PRO H 101     130.987 114.487 -12.310  1.00 41.61       HS8
ATOM  41804  CB  PRO H 101     132.168 114.410 -13.253  1.00 53.57       HS8
ATOM  41805  CG  PRO H 101     131.536 114.751 -14.557  1.00 53.57       HS8
ATOM  41806  C   PRO H 101     130.720 115.913 -11.838  1.00 41.61       HS8
ATOM  41807  O   PRO H 101     129.884 116.616 -12.411  1.00 41.61       HS8
ATOM  41808  N   ARG H 102     131.432 116.328 -10.789  1.00 69.27       HS8
ATOM  41809  CA  ARG H 102     131.300 117.672 -10.230  1.00 69.27       HS8
ATOM  41810  CB  ARG H 102     130.838 117.589  -8.777  1.00195.81       HS8
ATOM  41811  CG  ARG H 102     130.086 118.815  -8.296  1.00195.81       HS8
ATOM  41812  CD  ARG H 102     129.236 118.465  -7.088  1.00195.81       HS8
ATOM  41813  NE  ARG H 102     128.291 117.393  -7.401  1.00195.81       HS8
ATOM  41814  CZ  ARG H 102     127.517 116.785  -6.506  1.00195.81       HS8
ATOM  41815  NH1 ARG H 102     127.568 117.139  -5.228  1.00195.81       HS8
ATOM  41816  NH2 ARG H 102     126.691 115.819  -6.889  1.00195.81       HS8
ATOM  41817  C   ARG H 102     132.657 118.380 -10.329  1.00 69.27       HS8
ATOM  41818  O   ARG H 102     133.568 118.143  -9.529  1.00 69.27       HS8
ATOM  41819  N   VAL H 103     132.761 119.254 -11.327  1.00 49.91       HS8
ATOM  41820  CA  VAL H 103     133.967 120.020 -11.647  1.00 49.91       HS8
ATOM  41821  CB  VAL H 103     133.806 120.677 -13.021  1.00 41.63       HS8
ATOM  41822  CG1 VAL H 103     135.121 121.273 -13.460  1.00 41.63       HS8
ATOM  41823  CG2 VAL H 103     133.296 119.660 -14.021  1.00 41.63       HS8
ATOM  41824  C   VAL H 103     134.438 121.114 -10.684  1.00 49.91       HS8
ATOM  41825  O   VAL H 103     133.889 122.215 -10.656  1.00 49.91       HS8
ATOM  41826  N   ARG H 104     135.486 120.816  -9.927  1.00 50.59       HS8
ATOM  41827  CA  ARG H 104     136.063 121.772  -8.984  1.00 50.59       HS8
ATOM  41828  CB  ARG H 104     136.475 123.067  -9.696  1.00 50.15       HS8
ATOM  41829  CG  ARG H 104     137.475 122.902 -10.808  1.00 50.15       HS8
ATOM  41830  CD  ARG H 104     138.843 122.516 -10.289  1.00 50.15       HS8
ATOM  41831  NE  ARG H 104     139.746 123.656 -10.238  1.00 50.15       HS8
ATOM  41832  CZ  ARG H 104     141.071 123.555 -10.194  1.00 50.15       HS8
ATOM  41833  NH1 ARG H 104     141.648 122.357 -10.195  1.00 50.15       HS8
ATOM  41834  NH2 ARG H 104     141.823 124.650 -10.159  1.00 50.15       HS8
ATOM  41835  C   ARG H 104     135.106 122.149  -7.883  1.00 50.59       HS8
ATOM  41836  O   ARG H 104     134.682 123.301  -7.823  1.00 50.59       HS8
ATOM  41837  N   ARG H 105     134.779 121.203  -7.009  1.00 68.06       HS8
ATOM  41838  CA  ARG H 105     133.864 121.478  -5.909  1.00 68.06       HS8
ATOM  41839  CB  ARG H 105     134.633 122.001  -4.691  1.00 57.54       HS8
ATOM  41840  CG  ARG H 105     134.956 120.957  -3.639  1.00 57.54       HS8
ATOM  41841  CD  ARG H 105     135.076 119.561  -4.254  1.00 57.54       HS8
ATOM  41842  NE  ARG H 105     135.698 118.557  -3.380  1.00 57.54       HS8
ATOM  41843  CZ  ARG H 105     135.417 118.373  -2.087  1.00 57.54       HS8
ATOM  41844  NH1 ARG H 105     134.517 119.131  -1.467  1.00 57.54       HS8
ATOM  41845  NH2 ARG H 105     136.035 117.408  -1.413  1.00 57.54       HS8
ATOM  41846  C   ARG H 105     132.806 122.495  -6.313  1.00 68.06       HS8
ATOM  41847  O   ARG H 105     132.344 123.276  -5.485  1.00 68.06       HS8
ATOM  41848  N   GLY H 106     132.442 122.504  -7.592  1.00 44.25       HS8
ATOM  41849  CA  GLY H 106     131.421 123.425  -8.053  1.00 44.25       HS8
ATOM  41850  C   GLY H 106     131.887 124.673  -8.768  1.00 44.25       HS8
ATOM  41851  O   GLY H 106     131.121 125.274  -9.514  1.00 44.25       HS8
ATOM  41852  N   LEU H 107     133.133 125.075  -8.563  1.00 39.57       HS8
ATOM  41853  CA  LEU H 107     133.610 126.279  -9.216  1.00 39.57       HS8
ATOM  41854  CB  LEU H 107     134.929 126.725  -8.604  1.00 45.49       HS8
ATOM  41855  CG  LEU H 107     135.044 126.648  -7.085  1.00 45.49       HS8
ATOM  41856  CD1 LEU H 107     136.234 127.502  -6.655  1.00 45.49       HS8
ATOM  41857  CD2 LEU H 107     133.771 127.147  -6.420  1.00 45.49       HS8
ATOM  41858  C   LEU H 107     133.774 126.106 -10.720  1.00 39.57       HS8
ATOM  41859  O   LEU H 107     134.168 127.044 -11.414  1.00 39.57       HS8
ATOM  41860  N   GLY H 108     133.476 124.916 -11.230  1.00 40.73       HS8
ATOM  41861  CA  GLY H 108     133.611 124.691 -12.657  1.00 40.73       HS8
ATOM  41862  C   GLY H 108     132.387 124.051 -13.271  1.00 40.73       HS8
ATOM  41863  O   GLY H 108     131.336 123.987 -12.638  1.00 40.73       HS8
ATOM  41864  N   ILE H 109     132.497 123.582 -14.506  1.00 53.57       HS8
ATOM  41865  CA  ILE H 109     131.351 122.934 -15.121  1.00 53.57       HS8
ATOM  41866  CB  ILE H 109     130.564 123.870 -16.033  1.00 26.63       HS8
ATOM  41867  CG2 ILE H 109     130.270 125.143 -15.311  1.00 26.63       HS8
ATOM  41868  CG1 ILE H 109     131.348 124.116 -17.322  1.00 26.63       HS8
ATOM  41869  CD1 ILE H 109     130.572 124.861 -18.362  1.00 26.63       HS8
ATOM  41870  C   ILE H 109     131.714 121.734 -15.959  1.00 53.57       HS8
ATOM  41871  O   ILE H 109     132.877 121.418 -16.167  1.00 53.57       HS8
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ATOM  41872  N   ALA H 110     130.686 121.072 -16.452  1.00 40.37      HS8
ATOM  41873  CA  ALA H 110     130.879 119.921 -17.278  1.00 40.37      HS8
ATOM  41874  CB  ALA H 110     130.951 118.699 -16.436  1.00  1.96      HS8
ATOM  41875  C   ALA H 110     129.693 119.865 -18.208  1.00 40.37      HS8
ATOM  41876  O   ALA H 110     128.568 119.615 -17.798  1.00 40.37      HS8
ATOM  41877  N   ILE H 111     129.960 120.141 -19.469  1.00 25.82      HS8
ATOM  41878  CA  ILE H 111     128.951 120.130 -20.496  1.00 25.82      HS8
ATOM  41879  CB  ILE H 111     129.450 120.954 -21.677  1.00 26.49      HS8
ATOM  41880  CG2 ILE H 111     128.525 120.796 -22.873  1.00 26.49      HS8
ATOM  41881  CG1 ILE H 111     129.640 122.399 -21.228  1.00 26.49      HS8
ATOM  41882  CD1 ILE H 111     130.089 123.335 -22.323  1.00 26.49      HS8
ATOM  41883  C   ILE H 111     128.743 118.696 -20.946  1.00 25.82      HS8
ATOM  41884  O   ILE H 111     129.708 117.996 -21.190  1.00 25.82      HS8
ATOM  41885  N   LEU H 112     127.499 118.243 -21.032  1.00 35.65      HS8
ATOM  41886  CA  LEU H 112     127.236 116.891 -21.521  1.00 35.65      HS8
ATOM  41887  CB  LEU H 112     127.035 115.872 -20.395  1.00 24.11      HS8
ATOM  41888  CG  LEU H 112     126.093 116.136 -19.238  1.00 24.11      HS8
ATOM  41889  CD1 LEU H 112     126.083 114.937 -18.299  1.00 24.11      HS8
ATOM  41890  CD2 LEU H 112     126.574 117.364 -18.492  1.00 24.11      HS8
ATOM  41891  C   LEU H 112     126.015 116.912 -22.388  1.00 35.65      HS8
ATOM  41892  O   LEU H 112     125.104 117.685 -22.143  1.00 35.65      HS8
ATOM  41893  N   SER H 113     126.001 116.074 -23.416  1.00 20.38      HS8
ATOM  41894  CA  SER H 113     124.868 116.018 -24.321  1.00 20.38      HS8
ATOM  41895  CB  SER H 113     125.330 115.697 -25.729  1.00 10.04      HS8
ATOM  41896  OG  SER H 113     124.222 115.588 -26.588  1.00 10.04      HS8
ATOM  41897  C   SER H 113     123.934 114.939 -23.850  1.00 20.38      HS8
ATOM  41898  O   SER H 113     124.384 113.841 -23.541  1.00 20.38      HS8
ATOM  41899  N   THR H 114     122.639 115.249 -23.785  1.00 30.41      HS8
ATOM  41900  CA  THR H 114     121.634 114.282 -23.340  1.00 30.41      HS8
ATOM  41901  CB  THR H 114     121.063 114.650 -21.978  1.00 18.27      HS8
ATOM  41902  OG1 THR H 114     120.326 115.862 -22.113  1.00 18.27      HS8
ATOM  41903  CG2 THR H 114     122.164 114.857 -20.954  1.00 18.27      HS8
ATOM  41904  C   THR H 114     120.463 114.239 -24.310  1.00 30.41      HS8
ATOM  41905  O   THR H 114     120.368 115.073 -25.212  1.00 30.41      HS8
ATOM  41906  N   SER H 115     119.574 113.266 -24.118  1.00 52.48      HS8
ATOM  41907  CA  SER H 115     118.398 113.132 -24.968  1.00 52.48      HS8
ATOM  41908  CB  SER H 115     117.661 111.828 -24.683  1.00 66.46      HS8
ATOM  41909  OG  SER H 115     117.165 111.802 -23.359  1.00 66.46      HS8
ATOM  41910  C   SER H 115     117.478 114.315 -24.708  1.00 52.48      HS8
ATOM  41911  O   SER H 115     116.520 114.545 -25.444  1.00 52.48      HS8
ATOM  41912  N   LYS H 116     117.771 115.056 -23.645  1.00 43.07      HS8
ATOM  41913  CA  LYS H 116     117.009 116.247 -23.317  1.00 43.07      HS8
ATOM  41914  CB  LYS H 116     116.705 116.315 -21.823  1.00 95.54      HS8
ATOM  41915  CG  LYS H 116     115.429 115.615 -21.424  1.00 95.54      HS8
ATOM  41916  CD  LYS H 116     115.149 115.826 -19.949  1.00 95.54      HS8
ATOM  41917  CE  LYS H 116     113.841 115.172 -19.532  1.00 95.54      HS8
ATOM  41918  NZ  LYS H 116     113.558 115.372 -18.079  1.00 95.54      HS8
ATOM  41919  C   LYS H 116     117.837 117.459 -23.724  1.00 43.07      HS8
ATOM  41920  O   LYS H 116     117.535 118.583 -23.329  1.00 43.07      HS8
ATOM  41921  N   GLY H 117     118.897 117.220 -24.498  1.00 48.67      HS8
ATOM  41922  CA  GLY H 117     119.748 118.304 -24.970  1.00 48.67      HS8
ATOM  41923  C   GLY H 117     121.134 118.439 -24.365  1.00 48.67      HS8
ATOM  41924  O   GLY H 117     121.567 117.605 -23.579  1.00 48.67      HS8
ATOM  41925  N   VAL H 118     121.830 119.507 -24.742  1.00 57.22      HS8
ATOM  41926  CA  VAL H 118     123.176 119.775 -24.250  1.00 57.22      HS8
ATOM  41927  CB  VAL H 118     124.031 120.502 -25.316  1.00 35.43      HS8
ATOM  41928  CG1 VAL H 118     125.323 121.001 -24.681  1.00 35.43      HS8
ATOM  41929  CG2 VAL H 118     124.338 119.567 -26.486  1.00 35.43      HS8
ATOM  41930  C   VAL H 118     123.079 120.668 -23.030  1.00 57.22      HS8
ATOM  41931  O   VAL H 118     122.609 121.791 -23.134  1.00 57.22      HS8
ATOM  41932  N   LEU H 119     123.528 120.191 -21.878  1.00 35.89      HS8
ATOM  41933  CA  LEU H 119     123.429 120.999 -20.669  1.00 35.89      HS8
ATOM  41934  CB  LEU H 119     122.109 120.714 -19.953  1.00 45.39      HS8
ATOM  41935  CG  LEU H 119     121.511 119.313 -20.073  1.00 45.39      HS8
ATOM  41936  CD1 LEU H 119     120.477 119.058 -18.982  1.00 45.39      HS8
ATOM  41937  CD2 LEU H 119     120.857 119.188 -21.434  1.00 45.39      HS8
ATOM  41938  C   LEU H 119     124.564 120.824 -19.683  1.00 35.89      HS8
ATOM  41939  O   LEU H 119     125.286 119.838 -19.733  1.00 35.89      HS8
ATOM  41940  N   THR H 120     124.721 121.790 -18.784  1.00 21.55      HS8
ATOM  41941  CA  THR H 120     125.769 121.713 -17.779  1.00 21.55      HS8
ATOM  41942  CB  THR H 120     125.817 122.952 -16.908  1.00 50.24      HS8
ATOM  41943  OG1 THR H 120     124.648 122.987 -16.085  1.00 50.24      HS8
ATOM  41944  CG2 THR H 120     125.892 124.199 -17.764  1.00 50.24      HS8
ATOM  41945  C   THR H 120     125.457 120.548 -16.862  1.00 21.55      HS8
ATOM  41946  O   THR H 120     124.415 119.910 -16.986  1.00 21.55      HS8
ATOM  41947  N   ASP H 121     126.353 120.266 -15.932  1.00 39.79      HS8
ATOM  41948  CA  ASP H 121     126.102 119.159 -15.041  1.00 39.79      HS8
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ATOM  41949  CB  ASP H 121     127.366 118.784 -14.252  1.00 71.44       HS8
ATOM  41950  CG  ASP H 121     128.124 119.987 -13.743  1.00 71.44       HS8
ATOM  41951  OD1 ASP H 121     128.350 120.926 -14.535  1.00 71.44       HS8
ATOM  41952  OD2 ASP H 121     128.511 119.980 -12.552  1.00 71.44       HS8
ATOM  41953  C   ASP H 121     124.958 119.497 -14.113  1.00 39.79       HS8
ATOM  41954  O   ASP H 121     124.159 118.629 -13.776  1.00 39.79       HS8
ATOM  41955  N   ARG H 122     124.854 120.761 -13.717  1.00 46.53       HS8
ATOM  41956  CA  ARG H 122     123.772 121.149 -12.820  1.00 46.53       HS8
ATOM  41957  CB  ARG H 122     124.029 122.533 -12.203  1.00146.95       HS8
ATOM  41958  CG  ARG H 122     125.058 122.498 -11.075  1.00146.95       HS8
ATOM  41959  CD  ARG H 122     125.040 123.754 -10.209  1.00146.95       HS8
ATOM  41960  NE  ARG H 122     125.968 123.649  -9.079  1.00146.95       HS8
ATOM  41961  CZ  ARG H 122     126.108 124.567  -8.124  1.00146.95       HS8
ATOM  41962  NH1 ARG H 122     125.381 125.675  -8.149  1.00146.95       HS8
ATOM  41963  NH2 ARG H 122     126.978 124.379  -7.138  1.00146.95       HS8
ATOM  41964  C   ARG H 122     122.433 121.117 -13.533  1.00 46.53       HS8
ATOM  41965  O   ARG H 122     121.459 120.625 -12.988  1.00 46.53       HS8
ATOM  41966  N   GLU H 123     122.385 121.616 -14.760  1.00 39.77       HS8
ATOM  41967  CA  GLU H 123     121.138 121.620 -15.513  1.00 39.77       HS8
ATOM  41968  CB  GLU H 123     121.331 122.300 -16.874  1.00 96.91       HS8
ATOM  41969  CG  GLU H 123     122.062 123.634 -16.812  1.00 96.91       HS8
ATOM  41970  CD  GLU H 123     122.136 124.343 -18.155  1.00 96.91       HS8
ATOM  41971  OE1 GLU H 123     121.209 125.115 -18.487  1.00 96.91       HS8
ATOM  41972  OE2 GLU H 123     123.123 124.123 -18.885  1.00 96.91       HS8
ATOM  41973  C   GLU H 123     120.707 120.175 -15.723  1.00 39.77       HS8
ATOM  41974  O   GLU H 123     119.525 119.851 -15.687  1.00 39.77       HS8
ATOM  41975  N   ALA H 124     121.692 119.311 -15.939  1.00 46.44       HS8
ATOM  41976  CA  ALA H 124     121.456 117.895 -16.178  1.00 46.44       HS8
ATOM  41977  CB  ALA H 124     122.732 117.246 -16.667  1.00 22.34       HS8
ATOM  41978  C   ALA H 124     120.985 117.220 -14.910  1.00 46.44       HS8
ATOM  41979  O   ALA H 124     120.031 116.449 -14.910  1.00 46.44       HS8
ATOM  41980  N   ARG H 125     121.677 117.520 -13.825  1.00 37.03       HS8
ATOM  41981  CA  ARG H 125     121.340 116.950 -12.546  1.00 37.03       HS8
ATOM  41982  CB  ARG H 125     122.339 117.415 -11.491  1.00 85.34       HS8
ATOM  41983  CG  ARG H 125     122.364 116.548 -10.258  1.00 85.34       HS8
ATOM  41984  CD  ARG H 125     123.577 116.832  -9.378  1.00 85.34       HS8
ATOM  41985  NE  ARG H 125     124.854 116.620 -10.059  1.00 85.34       HS8
ATOM  41986  CZ  ARG H 125     125.448 117.522 -10.835  1.00 85.34       HS8
ATOM  41987  NH1 ARG H 125     124.882 118.703 -11.033  1.00 85.34       HS8
ATOM  41988  NH2 ARG H 125     126.614 117.250 -11.408  1.00 85.34       HS8
ATOM  41989  C   ARG H 125     119.947 117.431 -12.208  1.00 37.03       HS8
ATOM  41990  O   ARG H 125     119.171 116.724 -11.566  1.00 37.03       HS8
ATOM  41991  N   LYS H 126     119.633 118.638 -12.667  1.00 47.58       HS8
ATOM  41992  CA  LYS H 126     118.340 119.250 -12.414  1.00 47.58       HS8
ATOM  41993  CB  LYS H 126     118.312 120.685 -12.941  1.00167.74       HS8
ATOM  41994  CG  LYS H 126     117.078 121.459 -12.515  1.00167.74       HS8
ATOM  41995  CD  LYS H 126     117.148 122.920 -12.927  1.00167.74       HS8
ATOM  41996  CE  LYS H 126     115.910 123.670 -12.448  1.00167.74       HS8
ATOM  41997  NZ  LYS H 126     115.929 125.111 -12.822  1.00167.74       HS8
ATOM  41998  C   LYS H 126     117.259 118.428 -13.077  1.00 47.58       HS8
ATOM  41999  O   LYS H 126     116.456 117.815 -12.391  1.00 47.58       HS8
ATOM  42000  N   LEU H 127     117.234 118.388 -14.405  1.00 39.74       HS8
ATOM  42001  CA  LEU H 127     116.214 117.604 -15.094  1.00 39.74       HS8
ATOM  42002  CB  LEU H 127     116.281 117.808 -16.599  1.00 24.74       HS8
ATOM  42003  CG  LEU H 127     116.565 119.199 -17.139  1.00 24.74       HS8
ATOM  42004  CD1 LEU H 127     115.656 119.397 -18.337  1.00 24.74       HS8
ATOM  42005  CD2 LEU H 127     116.337 120.290 -16.093  1.00 24.74       HS8
ATOM  42006  C   LEU H 127     116.418 116.124 -14.795  1.00 39.74       HS8
ATOM  42007  O   LEU H 127     115.717 115.265 -15.323  1.00 39.74       HS8
ATOM  42008  N   GLY H 128     117.401 115.830 -13.959  1.00 50.07       HS8
ATOM  42009  CA  GLY H 128     117.659 114.457 -13.592  1.00 50.07       HS8
ATOM  42010  C   GLY H 128     117.973 113.526 -14.741  1.00 50.07       HS8
ATOM  42011  O   GLY H 128     117.424 112.436 -14.833  1.00 50.07       HS8
ATOM  42012  N   VAL H 129     118.850 113.941 -15.634  1.00 51.16       HS8
ATOM  42013  CA  VAL H 129     119.208 113.063 -16.727  1.00 51.16       HS8
ATOM  42014  CB  VAL H 129     118.608 113.528 -18.045  1.00 49.52       HS8
ATOM  42015  CG1 VAL H 129     117.106 113.544 -17.927  1.00 49.52       HS8
ATOM  42016  CG2 VAL H 129     119.155 114.904 -18.414  1.00 49.52       HS8
ATOM  42017  C   VAL H 129     120.709 113.013 -16.861  1.00 51.16       HS8
ATOM  42018  O   VAL H 129     121.430 113.820 -16.275  1.00 51.16       HS8
ATOM  42019  N   GLY H 130     121.174 112.040 -17.623  1.00 34.00       HS8
ATOM  42020  CA  GLY H 130     122.589 111.891 -17.837  1.00 34.00       HS8
ATOM  42021  C   GLY H 130     122.756 111.766 -19.326  1.00 34.00       HS8
ATOM  42022  O   GLY H 130     121.800 112.010 -20.075  1.00 34.00       HS8
ATOM  42023  N   GLY H 131     123.956 111.378 -19.755  1.00 45.93       HS8
ATOM  42024  CA  GLY H 131     124.229 111.235 -21.174  1.00 45.93       HS8
ATOM  42025  C   GLY H 131     125.719 111.173 -21.417  1.00 45.93       HS8
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ATOM  42026  O   GLY H 131     126.492 110.908 -20.493  1.00 45.93      HS8
ATOM  42027  N   GLU H 132     126.123 111.415 -22.660  1.00 40.86      HS8
ATOM  42028  CA  GLU H 132     127.530 111.380 -23.027  1.00 40.86      HS8
ATOM  42029  CB  GLU H 132     127.697 111.424 -24.537  1.00 44.52      HS8
ATOM  42030  CG  GLU H 132     129.104 111.072 -24.977  1.00 44.52      HS8
ATOM  42031  CD  GLU H 132     129.305 111.232 -26.462  1.00 44.52      HS8
ATOM  42032  OE1 GLU H 132     128.503 110.678 -27.245  1.00 44.52      HS8
ATOM  42033  OE2 GLU H 132     130.272 111.915 -26.843  1.00 44.52      HS8
ATOM  42034  C   GLU H 132     128.212 112.579 -22.430  1.00 40.86      HS8
ATOM  42035  O   GLU H 132     127.925 113.704 -22.806  1.00 40.86      HS8
ATOM  42036  N   LEU H 133     129.118 112.341 -21.495  1.00 32.13      HS8
ATOM  42037  CA  LEU H 133     129.820 113.431 -20.848  1.00 32.13      HS8
ATOM  42038  CB  LEU H 133     130.664 112.887 -19.699  1.00 24.06      HS8
ATOM  42039  CG  LEU H 133     131.277 113.967 -18.823  1.00 24.06      HS8
ATOM  42040  CD1 LEU H 133     131.853 113.393 -17.563  1.00 24.06      HS8
ATOM  42041  CD2 LEU H 133     132.332 114.660 -19.638  1.00 24.06      HS8
ATOM  42042  C   LEU H 133     130.700 114.050 -21.898  1.00 32.13      HS8
ATOM  42043  O   LEU H 133     131.627 113.415 -22.351  1.00 32.13      HS8
ATOM  42044  N   ILE H 134     130.433 115.287 -22.285  1.00 33.81      HS8
ATOM  42045  CA  ILE H 134     131.250 115.912 -23.318  1.00 33.81      HS8
ATOM  42046  CB  ILE H 134     130.494 117.018 -24.041  1.00 35.22      HS8
ATOM  42047  CG2 ILE H 134     131.451 117.797 -24.950  1.00 35.22      HS8
ATOM  42048  CG1 ILE H 134     129.364 116.405 -24.852  1.00 35.22      HS8
ATOM  42049  CD1 ILE H 134     128.524 117.430 -25.551  1.00 35.22      HS8
ATOM  42050  C   ILE H 134     132.598 116.487 -22.913  1.00 33.81      HS8
ATOM  42051  O   ILE H 134     133.600 116.194 -23.544  1.00 33.81      HS8
ATOM  42052  N   CYS H 135     132.639 117.315 -21.883  1.00 32.23      HS8
ATOM  42053  CA  CYS H 135     133.909 117.904 -21.502  1.00 32.23      HS8
ATOM  42054  CB  CYS H 135     134.349 118.897 -22.572  1.00 42.10      HS8
ATOM  42055  SG  CYS H 135     133.334 120.388 -22.600  1.00 42.10      HS8
ATOM  42056  C   CYS H 135     133.839 118.638 -20.177  1.00 32.23      HS8
ATOM  42057  O   CYS H 135     132.759 118.877 -19.647  1.00 32.23      HS8
ATOM  42058  N   GLU H 136     135.003 118.972 -19.632  1.00 32.13      HS8
ATOM  42059  CA  GLU H 136     135.048 119.733 -18.403  1.00 32.13      HS8
ATOM  42060  CB  GLU H 136     136.212 119.315 -17.521  1.00 75.91      HS8
ATOM  42061  CG  GLU H 136     136.228 117.892 -17.057  1.00 75.91      HS8
ATOM  42062  CD  GLU H 136     137.451 117.630 -16.195  1.00 75.91      HS8
ATOM  42063  OE1 GLU H 136     138.587 117.733 -16.723  1.00 75.91      HS8
ATOM  42064  OE2 GLU H 136     137.275 117.337 -14.989  1.00 75.91      HS8
ATOM  42065  C   GLU H 136     135.338 121.122 -18.943  1.00 32.13      HS8
ATOM  42066  O   GLU H 136     135.508 121.286 -20.150  1.00 32.13      HS8
ATOM  42067  N   VAL H 137     135.372 122.104 -18.045  1.00 38.12      HS8
ATOM  42068  CA  VAL H 137     135.680 123.505 -18.336  1.00 38.12      HS8
ATOM  42069  CB  VAL H 137     134.611 124.259 -19.141  1.00 16.62      HS8
ATOM  42070  CG1 VAL H 137     135.106 125.680 -19.379  1.00 16.62      HS8
ATOM  42071  CG2 VAL H 137     134.308 123.572 -20.468  1.00 16.62      HS8
ATOM  42072  C   VAL H 137     135.673 124.195 -16.995  1.00 38.12      HS8
ATOM  42073  O   VAL H 137     134.713 124.054 -16.236  1.00 38.12      HS8
ATOM  42074  N   TRP H 138     136.724 124.941 -16.694  1.00 33.00      HS8
ATOM  42075  CA  TRP H 138     136.756 125.656 -15.442  1.00 33.00      HS8
ATOM  42076  CB  TRP H 138     136.990 124.706 -14.270  1.00 56.05      HS8
ATOM  42077  CG  TRP H 138     138.160 123.797 -14.336  1.00 56.05      HS8
ATOM  42078  CD2 TRP H 138     139.471 124.076 -13.860  1.00 56.05      HS8
ATOM  42079  CE2 TRP H 138     140.204 122.867 -13.908  1.00 56.05      HS8
ATOM  42080  CE3 TRP H 138     140.097 125.228 -13.389  1.00 56.05      HS8
ATOM  42081  CD1 TRP H 138     138.151 122.467 -14.669  1.00 56.05      HS8
ATOM  42082  NE1 TRP H 138     139.377 121.898 -14.404  1.00 56.05      HS8
ATOM  42083  CZ2 TRP H 138     141.527 122.783 -13.501  1.00 56.05      HS8
ATOM  42084  CZ3 TRP H 138     141.413 125.148 -12.983  1.00 56.05      HS8
ATOM  42085  CH2 TRP H 138     142.119 123.933 -13.040  1.00 56.05      HS8
ATOM  42086  C   TRP H 138     137.739 126.804 -15.403  1.00 33.00      HS8
ATOM  42087  O   TRP H 138     138.157 127.230 -16.499  1.00 33.00      HS8
ATOM  42088  OXT TRP H 138     138.044 127.292 -14.292  1.00 56.05      HS8
TER   42088       TRP H 138                                             HS8
ATOM  42089  CB  GLU I   2     242.601 180.591  -4.451  1.00118.93      IS9
ATOM  42090  CG  GLU I   2     243.764 180.508  -3.437  1.00118.93      IS9
ATOM  42091  CD  GLU I   2     243.915 179.151  -2.747  1.00118.93      IS9
ATOM  42092  OE1 GLU I   2     244.175 178.144  -3.437  1.00118.93      IS9
ATOM  42093  OE2 GLU I   2     243.789 179.093  -1.503  1.00118.93      IS9
ATOM  42094  C   GLU I   2     242.359 178.329  -5.470  1.00113.20      IS9
ATOM  42095  O   GLU I   2     243.159 177.403  -5.617  1.00113.20      IS9
ATOM  42096  N   GLU I   2     241.989 180.370  -6.851  1.00113.20      IS9
ATOM  42097  CA  GLU I   2     242.782 179.772  -5.737  1.00113.20      IS9
ATOM  42098  N   GLN I   3     241.098 178.139  -5.088  1.00105.62      IS9
ATOM  42099  CA  GLN I   3     240.592 176.807  -4.772  1.00105.62      IS9
ATOM  42100  CB  GLN I   3     240.326 176.712  -3.271  1.00 83.52      IS9
ATOM  42101  CG  GLN I   3     240.262 175.301  -2.738  1.00 83.52      IS9
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ATOM  42102  CD  GLN I   3     241.637 174.665  -2.662  1.00 83.52       IS9
ATOM  42103  OE1 GLN I   3     242.304 174.484  -3.681  1.00 83.52       IS9
ATOM  42104  NE2 GLN I   3     242.073 174.332  -1.446  1.00 83.52       IS9
ATOM  42105  C   GLN I   3     239.315 176.414  -5.511  1.00105.62       IS9
ATOM  42106  O   GLN I   3     238.554 177.264  -5.972  1.00105.62       IS9
ATOM  42107  N   TYR I   4     239.097 175.108  -5.605  1.00102.26       IS9
ATOM  42108  CA  TYR I   4     237.918 174.521  -6.237  1.00102.26       IS9
ATOM  42109  CB  TYR I   4     238.028 174.551  -7.763  1.00108.26       IS9
ATOM  42110  CG  TYR I   4     238.146 175.942  -8.333  1.00108.26       IS9
ATOM  42111  CD1 TYR I   4     239.388 176.480  -8.653  1.00108.26       IS9
ATOM  42112  CE1 TYR I   4     239.508 177.786  -9.136  1.00108.26       IS9
ATOM  42113  CD2 TYR I   4     237.019 176.740  -8.509  1.00108.26       IS9
ATOM  42114  CE2 TYR I   4     237.127 178.049  -8.990  1.00108.26       IS9
ATOM  42115  CZ  TYR I   4     238.376 178.565  -9.301  1.00108.26       IS9
ATOM  42116  OH  TYR I   4     238.496 179.854  -9.777  1.00108.26       IS9
ATOM  42117  C   TYR I   4     237.883 173.084  -5.741  1.00102.26       IS9
ATOM  42118  O   TYR I   4     238.893 172.384  -5.793  1.00102.26       IS9
ATOM  42119  N   TYR I   5     236.736 172.637  -5.249  1.00 95.28       IS9
ATOM  42120  CA  TYR I   5     236.658 171.281  -4.726  1.00 95.28       IS9
ATOM  42121  CB  TYR I   5     236.986 171.300  -3.228  1.00 80.06       IS9
ATOM  42122  CG  TYR I   5     236.446 170.133  -2.426  1.00 80.06       IS9
ATOM  42123  CD1 TYR I   5     235.113 170.099  -2.020  1.00 80.06       IS9
ATOM  42124  CE1 TYR I   5     234.621 169.051  -1.261  1.00 80.06       IS9
ATOM  42125  CD2 TYR I   5     237.274 169.077  -2.052  1.00 80.06       IS9
ATOM  42126  CE2 TYR I   5     236.788 168.019  -1.291  1.00 80.06       IS9
ATOM  42127  CZ  TYR I   5     235.460 168.016  -0.900  1.00 80.06       IS9
ATOM  42128  OH  TYR I   5     234.972 166.977  -0.146  1.00 80.06       IS9
ATOM  42129  C   TYR I   5     235.356 170.535  -4.957  1.00 95.28       IS9
ATOM  42130  O   TYR I   5     234.275 171.114  -4.949  1.00 95.28       IS9
ATOM  42131  N   GLY I   6     235.491 169.230  -5.162  1.00 86.90       IS9
ATOM  42132  CA  GLY I   6     234.348 168.369  -5.372  1.00 86.90       IS9
ATOM  42133  C   GLY I   6     234.638 167.095  -4.609  1.00 86.90       IS9
ATOM  42134  O   GLY I   6     235.798 166.827  -4.300  1.00 86.90       IS9
ATOM  42135  N   THR I   7     233.609 166.317  -4.287  1.00133.42       IS9
ATOM  42136  CA  THR I   7     233.822 165.074  -3.557  1.00133.42       IS9
ATOM  42137  CB  THR I   7     232.687 164.803  -2.534  1.00 62.86       IS9
ATOM  42138  OG1 THR I   7     232.727 165.795  -1.498  1.00 62.86       IS9
ATOM  42139  CG2 THR I   7     232.848 163.426  -1.900  1.00 62.86       IS9
ATOM  42140  C   THR I   7     233.926 163.893  -4.513  1.00133.42       IS9
ATOM  42141  O   THR I   7     235.010 163.569  -4.998  1.00133.42       IS9
ATOM  42142  N   GLY I   8     232.797 163.259  -4.795  1.00 66.88       IS9
ATOM  42143  CA  GLY I   8     232.820 162.112  -5.681  1.00 66.88       IS9
ATOM  42144  C   GLY I   8     233.101 160.826  -4.923  1.00 66.88       IS9
ATOM  42145  O   GLY I   8     234.071 160.723  -4.165  1.00 66.88       IS9
ATOM  42146  N   ARG I   9     232.238 159.840  -5.128  1.00 80.25       IS9
ATOM  42147  CA  ARG I   9     232.378 158.556  -4.468  1.00 80.25       IS9
ATOM  42148  CB  ARG I   9     231.495 158.505  -3.226  1.00 82.72       IS9
ATOM  42149  CG  ARG I   9     232.159 159.053  -1.983  1.00 82.72       IS9
ATOM  42150  CD  ARG I   9     231.144 159.320  -0.885  1.00 82.72       IS9
ATOM  42151  NE  ARG I   9     230.253 160.415  -1.256  1.00 82.72       IS9
ATOM  42152  CZ  ARG I   9     229.539 161.125  -0.390  1.00 82.72       IS9
ATOM  42153  NH1 ARG I   9     229.609 160.852   0.908  1.00 82.72       IS9
ATOM  42154  NH2 ARG I   9     228.769 162.119  -0.820  1.00 82.72       IS9
ATOM  42155  C   ARG I   9     232.017 157.412  -5.395  1.00 80.25       IS9
ATOM  42156  O   ARG I   9     231.408 157.605  -6.450  1.00 80.25       IS9
ATOM  42157  N   ARG I  10     232.397 156.208  -4.993  1.00 44.76       IS9
ATOM  42158  CA  ARG I  10     232.113 155.037  -5.799  1.00 44.76       IS9
ATOM  42159  CB  ARG I  10     232.970 155.062  -7.070  1.00109.39       IS9
ATOM  42160  CG  ARG I  10     233.046 153.745  -7.819  1.00109.39       IS9
ATOM  42161  CD  ARG I  10     231.669 153.190  -8.133  1.00109.39       IS9
ATOM  42162  NE  ARG I  10     231.747 151.922  -8.854  1.00109.39       IS9
ATOM  42163  CZ  ARG I  10     232.106 151.807 -10.129  1.00109.39       IS9
ATOM  42164  NH1 ARG I  10     232.418 152.885 -10.837  1.00109.39       IS9
ATOM  42165  NH2 ARG I  10     232.162 150.611 -10.694  1.00109.39       IS9
ATOM  42166  C   ARG I  10     232.305 153.712  -5.064  1.00 44.76       IS9
ATOM  42167  O   ARG I  10     233.342 153.448  -4.453  1.00 44.76       IS9
ATOM  42168  N   LYS I  11     231.259 152.900  -5.116  1.00 65.97       IS9
ATOM  42169  CA  LYS I  11     231.297 151.583  -4.538  1.00 65.97       IS9
ATOM  42170  CB  LYS I  11     231.841 150.619  -5.608  1.00 59.25       IS9
ATOM  42171  CG  LYS I  11     232.186 149.212  -5.156  1.00 59.25       IS9
ATOM  42172  CD  LYS I  11     232.794 148.404  -6.308  1.00 59.25       IS9
ATOM  42173  CE  LYS I  11     233.274 147.047  -5.799  1.00 59.25       IS9
ATOM  42174  NZ  LYS I  11     233.667 146.101  -6.862  1.00 59.25       IS9
ATOM  42175  C   LYS I  11     232.141 151.535  -3.275  1.00 65.97       IS9
ATOM  42176  O   LYS I  11     233.202 150.934  -3.261  1.00 65.97       IS9
ATOM  42177  N   GLU I  12     231.690 152.198  -2.221  1.00 52.02       IS9
ATOM  42178  CA  GLU I  12     232.408 152.155  -0.948  1.00 52.02       IS9
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ATOM  42179  CB  GLU I  12     232.583 150.693  -0.521  1.00 91.75       IS9
ATOM  42180  CG  GLU I  12     232.848 150.452   0.959  1.00 91.75       IS9
ATOM  42181  CD  GLU I  12     231.607 150.637   1.833  1.00 91.75       IS9
ATOM  42182  OE1 GLU I  12     230.495 150.260   1.399  1.00 91.75       IS9
ATOM  42183  OE2 GLU I  12     231.744 151.144   2.968  1.00 91.75       IS9
ATOM  42184  C   GLU I  12     233.776 152.849  -0.944  1.00 52.02       IS9
ATOM  42185  O   GLU I  12     234.738 152.323  -0.383  1.00 52.02       IS9
ATOM  42186  N   ALA I  13     233.858 154.033  -1.552  1.00102.65       IS9
ATOM  42187  CA  ALA I  13     235.110 154.791  -1.603  1.00102.65       IS9
ATOM  42188  CB  ALA I  13     235.975 154.287  -2.744  1.00 36.37       IS9
ATOM  42189  C   ALA I  13     234.854 156.291  -1.762  1.00102.65       IS9
ATOM  42190  O   ALA I  13     233.906 156.696  -2.438  1.00102.65       IS9
ATOM  42191  N   VAL I  14     235.711 157.107  -1.146  1.00 74.29       IS9
ATOM  42192  CA  VAL I  14     235.578 158.571  -1.190  1.00 74.29       IS9
ATOM  42193  CB  VAL I  14     235.175 159.135   0.186  1.00101.99       IS9
ATOM  42194  CG1 VAL I  14     234.675 160.559   0.027  1.00101.99       IS9
ATOM  42195  CG2 VAL I  14     234.129 158.243   0.839  1.00101.99       IS9
ATOM  42196  C   VAL I  14     236.846 159.320  -1.621  1.00 74.29       IS9
ATOM  42197  O   VAL I  14     237.965 158.974  -1.226  1.00 74.29       IS9
ATOM  42198  N   ALA I  15     236.659 160.370  -2.410  1.00 94.98       IS9
ATOM  42199  CA  ALA I  15     237.788 161.153  -2.888  1.00 94.98       IS9
ATOM  42200  CB  ALA I  15     238.029 160.868  -4.369  1.00 88.84       IS9
ATOM  42201  C   ALA I  15     237.601 162.649  -2.674  1.00 94.98       IS9
ATOM  42202  O   ALA I  15     236.597 163.226  -3.092  1.00 94.98       IS9
ATOM  42203  N   ARG I  16     238.573 163.265  -2.008  1.00 82.64       IS9
ATOM  42204  CA  ARG I  16     238.556 164.698  -1.759  1.00 82.64       IS9
ATOM  42205  CB  ARG I  16     239.241 165.028  -0.438  1.00118.25       IS9
ATOM  42206  CG  ARG I  16     238.639 164.385   0.779  1.00118.25       IS9
ATOM  42207  CD  ARG I  16     239.378 164.878   1.998  1.00118.25       IS9
ATOM  42208  NE  ARG I  16     238.863 164.305   3.233  1.00118.25       IS9
ATOM  42209  CZ  ARG I  16     239.324 164.613   4.440  1.00118.25       IS9
ATOM  42210  NH1 ARG I  16     240.310 165.490   4.563  1.00118.25       IS9
ATOM  42211  NH2 ARG I  16     238.799 164.049   5.521  1.00118.25       IS9
ATOM  42212  C   ARG I  16     239.372 165.287  -2.893  1.00 82.64       IS9
ATOM  42213  O   ARG I  16     240.573 165.042  -2.988  1.00 82.64       IS9
ATOM  42214  N   VAL I  17     238.724 166.051  -3.761  1.00 66.96       IS9
ATOM  42215  CA  VAL I  17     239.427 166.640  -4.887  1.00 66.96       IS9
ATOM  42216  CB  VAL I  17     238.747 166.268  -6.228  1.00 89.92       IS9
ATOM  42217  CG1 VAL I  17     239.473 166.939  -7.384  1.00 89.92       IS9
ATOM  42218  CG2 VAL I  17     238.745 164.760  -6.411  1.00 89.92       IS9
ATOM  42219  C   VAL I  17     239.495 168.155  -4.776  1.00 66.96       IS9
ATOM  42220  O   VAL I  17     238.465 168.829  -4.785  1.00 66.96       IS9
ATOM  42221  N   PHE I  18     240.714 168.680  -4.658  1.00 77.38       IS9
ATOM  42222  CA  PHE I  18     240.931 170.120  -4.569  1.00 77.38       IS9
ATOM  42223  CB  PHE I  18     241.771 170.490  -3.352  1.00 80.09       IS9
ATOM  42224  CG  PHE I  18     241.160 170.106  -2.045  1.00 80.09       IS9
ATOM  42225  CD1 PHE I  18     241.329 168.826  -1.534  1.00 80.09       IS9
ATOM  42226  CD2 PHE I  18     240.451 171.040  -1.300  1.00 80.09       IS9
ATOM  42227  CE1 PHE I  18     240.805 168.479  -0.289  1.00 80.09       IS9
ATOM  42228  CE2 PHE I  18     239.921 170.707  -0.057  1.00 80.09       IS9
ATOM  42229  CZ  PHE I  18     240.101 169.420   0.453  1.00 80.09       IS9
ATOM  42230  C   PHE I  18     241.681 170.566  -5.805  1.00 77.38       IS9
ATOM  42231  O   PHE I  18     242.856 170.235  -5.972  1.00 77.38       IS9
ATOM  42232  N   LEU I  19     240.999 171.316  -6.664  1.00115.60       IS9
ATOM  42233  CA  LEU I  19     241.597 171.819  -7.892  1.00115.60       IS9
ATOM  42234  CB  LEU I  19     240.547 171.920  -8.997  1.00 96.98       IS9
ATOM  42235  CG  LEU I  19     239.807 170.638  -9.371  1.00 96.98       IS9
ATOM  42236  CD1 LEU I  19     238.863 170.911 -10.534  1.00 96.98       IS9
ATOM  42237  CD2 LEU I  19     240.810 169.569  -9.747  1.00 96.98       IS9
ATOM  42238  C   LEU I  19     242.222 173.187  -7.671  1.00115.60       IS9
ATOM  42239  O   LEU I  19     241.548 174.146  -7.294  1.00115.60       IS9
ATOM  42240  N   ARG I  20     243.524 173.261  -7.906  1.00141.64       IS9
ATOM  42241  CA  ARG I  20     244.274 174.495  -7.757  1.00141.64       IS9
ATOM  42242  CB  ARG I  20     245.283 174.345  -6.620  1.00105.32       IS9
ATOM  42243  CG  ARG I  20     244.625 174.011  -5.286  1.00105.32       IS9
ATOM  42244  CD  ARG I  20     245.624 173.550  -4.228  1.00105.32       IS9
ATOM  42245  NE  ARG I  20     244.994 173.411  -2.914  1.00105.32       IS9
ATOM  42246  CZ  ARG I  20     245.621 173.000  -1.813  1.00105.32       IS9
ATOM  42247  NH1 ARG I  20     246.906 172.677  -1.850  1.00105.32       IS9
ATOM  42248  NH2 ARG I  20     244.962 172.923  -0.663  1.00105.32       IS9
ATOM  42249  C   ARG I  20     244.979 174.680  -9.090  1.00141.64       IS9
ATOM  42250  O   ARG I  20     245.402 173.709  -9.707  1.00141.64       IS9
ATOM  42251  N   PRO I  21     245.095 175.924  -9.569  1.00106.70       IS9
ATOM  42252  CD  PRO I  21     244.515 177.179  -9.069  1.00 65.65       IS9
ATOM  42253  CA  PRO I  21     245.769 176.128 -10.857  1.00106.70       IS9
ATOM  42254  CB  PRO I  21     245.542 177.611 -11.136  1.00 65.65       IS9
ATOM  42255  CG  PRO I  21     244.289 177.930 -10.347  1.00 65.65       IS9
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ATOM  42256  C   PRO I  21     247.250 175.780 -10.759  1.00106.70      IS9
ATOM  42257  O   PRO I  21     247.801 175.727  -9.659  1.00106.70      IS9
ATOM  42258  N   GLY I  22     247.891 175.536 -11.899  1.00154.21      IS9
ATOM  42259  CA  GLY I  22     249.306 175.208 -11.874  1.00154.21      IS9
ATOM  42260  C   GLY I  22     249.840 174.372 -13.023  1.00154.21      IS9
ATOM  42261  O   GLY I  22     249.267 174.339 -14.116  1.00154.21      IS9
ATOM  42262  N   ASN I  23     250.957 173.698 -12.758  1.00156.57      IS9
ATOM  42263  CA  ASN I  23     251.632 172.841 -13.730  1.00156.57      IS9
ATOM  42264  CB  ASN I  23     252.846 172.176 -13.065  1.00192.27      IS9
ATOM  42265  CG  ASN I  23     253.599 171.235 -13.999  1.00192.27      IS9
ATOM  42266  OD1 ASN I  23     254.582 170.608 -13.598  1.00192.27      IS9
ATOM  42267  ND2 ASN I  23     253.144 171.134 -15.244  1.00192.27      IS9
ATOM  42268  C   ASN I  23     250.693 171.771 -14.279  1.00156.57      IS9
ATOM  42269  O   ASN I  23     250.529 171.629 -15.492  1.00156.57      IS9
ATOM  42270  N   GLY I  24     250.081 171.020 -13.373  1.00118.67      IS9
ATOM  42271  CA  GLY I  24     249.176 169.963 -13.773  1.00118.67      IS9
ATOM  42272  C   GLY I  24     249.558 168.698 -13.042  1.00118.67      IS9
ATOM  42273  O   GLY I  24     249.228 167.596 -13.478  1.00118.67      IS9
ATOM  42274  N   LYS I  25     250.269 168.861 -11.929  1.00122.57      IS9
ATOM  42275  CA  LYS I  25     250.700 167.723 -11.127  1.00122.57      IS9
ATOM  42276  CB  LYS I  25     251.958 168.068 -10.321  1.00195.69      IS9
ATOM  42277  CG  LYS I  25     251.768 169.136  -9.256  1.00195.69      IS9
ATOM  42278  CD  LYS I  25     253.046 169.354  -8.449  1.00195.69      IS9
ATOM  42279  CE  LYS I  25     254.189 169.857  -9.325  1.00195.69      IS9
ATOM  42280  NZ  LYS I  25     255.431 170.107  -8.540  1.00195.69      IS9
ATOM  42281  C   LYS I  25     249.585 167.277 -10.189  1.00122.57      IS9
ATOM  42282  O   LYS I  25     249.003 168.078  -9.456  1.00122.57      IS9
ATOM  42283  N   VAL I  26     249.295 165.985 -10.224  1.00 69.37      IS9
ATOM  42284  CA  VAL I  26     248.246 165.413  -9.403  1.00 69.37      IS9
ATOM  42285  CB  VAL I  26     247.469 164.370 -10.217  1.00 49.23      IS9
ATOM  42286  CG1 VAL I  26     246.038 164.278  -9.718  1.00 49.23      IS9
ATOM  42287  CG2 VAL I  26     247.526 164.720 -11.689  1.00 49.23      IS9
ATOM  42288  C   VAL I  26     248.872 164.743  -8.178  1.00 69.37      IS9
ATOM  42289  O   VAL I  26     249.957 164.168  -8.264  1.00 69.37      IS9
ATOM  42290  N   THR I  27     248.201 164.806  -7.037  1.00 97.51      IS9
ATOM  42291  CA  THR I  27     248.767 164.186  -5.852  1.00 97.51      IS9
ATOM  42292  CB  THR I  27     249.460 165.214  -4.968  1.00101.83      IS9
ATOM  42293  OG1 THR I  27     250.360 165.989  -5.765  1.00101.83      IS9
ATOM  42294  CG2 THR I  27     250.235 164.513  -3.857  1.00101.83      IS9
ATOM  42295  C   THR I  27     247.738 163.466  -5.011  1.00 97.51      IS9
ATOM  42296  O   THR I  27     246.910 164.084  -4.341  1.00 97.51      IS9
ATOM  42297  N   VAL I  28     247.812 162.146  -5.032  1.00 75.04      IS9
ATOM  42298  CA  VAL I  28     246.884 161.334  -4.273  1.00 75.04      IS9
ATOM  42299  CB  VAL I  28     246.486 160.076  -5.073  1.00110.83      IS9
ATOM  42300  CG1 VAL I  28     245.420 159.294  -4.327  1.00110.83      IS9
ATOM  42301  CG2 VAL I  28     246.001 160.476  -6.458  1.00110.83      IS9
ATOM  42302  C   VAL I  28     247.507 160.901  -2.954  1.00 75.04      IS9
ATOM  42303  O   VAL I  28     248.409 160.067  -2.934  1.00 75.04      IS9
ATOM  42304  N   ASN I  29     247.042 161.477  -1.853  1.00118.27      IS9
ATOM  42305  CA  ASN I  29     247.563 161.088  -0.552  1.00118.27      IS9
ATOM  42306  CB  ASN I  29     247.224 159.624  -0.290  1.00 79.82      IS9
ATOM  42307  CG  ASN I  29     245.749 159.394  -0.153  1.00 79.82      IS9
ATOM  42308  OD1 ASN I  29     244.945 160.124  -0.728  1.00 79.82      IS9
ATOM  42309  ND2 ASN I  29     245.376 158.368   0.603  1.00 79.82      IS9
ATOM  42310  C   ASN I  29     249.066 161.263  -0.460  1.00118.27      IS9
ATOM  42311  O   ASN I  29     249.791 160.313  -0.151  1.00118.27      IS9
ATOM  42312  N   GLY I  30     249.540 162.473  -0.724  1.00111.56      IS9
ATOM  42313  CA  GLY I  30     250.967 162.703  -0.652  1.00111.56      IS9
ATOM  42314  C   GLY I  30     251.722 161.660  -1.450  1.00111.56      IS9
ATOM  42315  O   GLY I  30     252.559 160.932  -0.915  1.00111.56      IS9
ATOM  42316  N   GLN I  31     251.391 161.579  -2.734  1.00 63.00      IS9
ATOM  42317  CA  GLN I  31     252.031 160.657  -3.668  1.00 63.00      IS9
ATOM  42318  CB  GLN I  31     251.540 159.218  -3.465  1.00117.77      IS9
ATOM  42319  CG  GLN I  31     252.235 158.473  -2.330  1.00117.77      IS9
ATOM  42320  CD  GLN I  31     251.920 156.981  -2.314  1.00117.77      IS9
ATOM  42321  OE1 GLN I  31     252.101 156.287  -3.316  1.00117.77      IS9
ATOM  42322  NE2 GLN I  31     251.455 156.482  -1.170  1.00117.77      IS9
ATOM  42323  C   GLN I  31     251.726 161.109  -5.091  1.00 63.00      IS9
ATOM  42324  O   GLN I  31     250.723 161.783  -5.344  1.00 63.00      IS9
ATOM  42325  N   ASP I  32     252.610 160.765  -6.016  1.00 79.11      IS9
ATOM  42326  CA  ASP I  32     252.403 161.132  -7.402  1.00 79.11      IS9
ATOM  42327  CB  ASP I  32     253.665 160.856  -8.221  1.00181.74      IS9
ATOM  42328  CG  ASP I  32     253.563 161.374  -9.641  1.00181.74      IS9
ATOM  42329  OD1 ASP I  32     252.626 160.966 -10.360  1.00181.74      IS9
ATOM  42330  OD2 ASP I  32     254.421 162.190 -10.039  1.00181.74      IS9
ATOM  42331  C   ASP I  32     251.240 160.290  -7.925  1.00 79.11      IS9
ATOM  42332  O   ASP I  32     251.154 159.089  -7.644  1.00 79.11      IS9
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ATOM  42333  N   PHE I  33     250.339 160.927  -8.667  1.00108.85      IS9
ATOM  42334  CA  PHE I  33     249.184 160.239  -9.232  1.00108.85      IS9
ATOM  42335  CB  PHE I  33     248.619 161.046 -10.395  1.00 73.07      IS9
ATOM  42336  CG  PHE I  33     247.342 160.495 -10.953  1.00 73.07      IS9
ATOM  42337  CD1 PHE I  33     246.135 160.718 -10.306  1.00 73.07      IS9
ATOM  42338  CD2 PHE I  33     247.345 159.769 -12.138  1.00 73.07      IS9
ATOM  42339  CE1 PHE I  33     244.951 160.230 -10.835  1.00 73.07      IS9
ATOM  42340  CE2 PHE I  33     246.161 159.275 -12.673  1.00 73.07      IS9
ATOM  42341  CZ  PHE I  33     244.963 159.506 -12.023  1.00 73.07      IS9
ATOM  42342  C   PHE I  33     249.645 158.888  -9.743  1.00108.85      IS9
ATOM  42343  O   PHE I  33     248.994 157.866  -9.532  1.00108.85      IS9
ATOM  42344  N   ASN I  34     250.790 158.905 -10.414  1.00 85.33      IS9
ATOM  42345  CA  ASN I  34     251.380 157.705 -10.975  1.00 85.33      IS9
ATOM  42346  CB  ASN I  34     252.439 158.096 -12.002  1.00142.55      IS9
ATOM  42347  CG  ASN I  34     251.925 159.114 -13.001  1.00142.55      IS9
ATOM  42348  OD1 ASN I  34     250.975 158.854 -13.739  1.00142.55      IS9
ATOM  42349  ND2 ASN I  34     252.548 160.285 -13.023  1.00142.55      IS9
ATOM  42350  C   ASN I  34     251.999 156.848  -9.876  1.00 85.33      IS9
ATOM  42351  O   ASN I  34     252.005 155.622  -9.957  1.00 85.33      IS9
ATOM  42352  N   GLU I  35     252.518 157.495  -8.845  1.00 87.53      IS9
ATOM  42353  CA  GLU I  35     253.128 156.764  -7.754  1.00 87.53      IS9
ATOM  42354  CB  GLU I  35     253.878 157.725  -6.831  1.00200.96      IS9
ATOM  42355  CG  GLU I  35     254.864 157.041  -5.901  1.00200.96      IS9
ATOM  42356  CD  GLU I  35     255.910 156.240  -6.655  1.00200.96      IS9
ATOM  42357  OE1 GLU I  35     256.583 156.820  -7.535  1.00200.96      IS9
ATOM  42358  OE2 GLU I  35     256.060 155.033  -6.367  1.00200.96      IS9
ATOM  42359  C   GLU I  35     252.067 155.999  -6.964  1.00 87.53      IS9
ATOM  42360  O   GLU I  35     252.356 154.943  -6.394  1.00 87.53      IS9
ATOM  42361  N   TYR I  36     250.840 156.521  -6.933  1.00 86.23      IS9
ATOM  42362  CA  TYR I  36     249.755 155.861  -6.200  1.00 86.23      IS9
ATOM  42363  CB  TYR I  36     248.629 156.840  -5.878  1.00 77.89      IS9
ATOM  42364  CG  TYR I  36     247.567 156.249  -4.973  1.00 77.89      IS9
ATOM  42365  CD1 TYR I  36     247.889 155.812  -3.691  1.00 77.89      IS9
ATOM  42366  CE1 TYR I  36     246.926 155.281  -2.851  1.00 77.89      IS9
ATOM  42367  CD2 TYR I  36     246.244 156.135  -5.395  1.00 77.89      IS9
ATOM  42368  CE2 TYR I  36     245.264 155.600  -4.561  1.00 77.89      IS9
ATOM  42369  CZ  TYR I  36     245.613 155.175  -3.286  1.00 77.89      IS9
ATOM  42370  OH  TYR I  36     244.662 154.644  -2.439  1.00 77.89      IS9
ATOM  42371  C   TYR I  36     249.169 154.717  -7.000  1.00 86.23      IS9
ATOM  42372  O   TYR I  36     249.104 153.581  -6.531  1.00 86.23      IS9
ATOM  42373  N   PHE I  37     248.722 155.042  -8.207  1.00 82.67      IS9
ATOM  42374  CA  PHE I  37     248.142 154.064  -9.113  1.00 82.67      IS9
ATOM  42375  CB  PHE I  37     247.193 154.770 -10.081  1.00 95.37      IS9
ATOM  42376  CG  PHE I  37     246.071 155.489  -9.389  1.00 95.37      IS9
ATOM  42377  CD1 PHE I  37     245.768 156.810  -9.706  1.00 95.37      IS9
ATOM  42378  CD2 PHE I  37     245.336 154.853  -8.391  1.00 95.37      IS9
ATOM  42379  CE1 PHE I  37     244.752 157.488  -9.034  1.00 95.37      IS9
ATOM  42380  CE2 PHE I  37     244.321 155.521  -7.717  1.00 95.37      IS9
ATOM  42381  CZ  PHE I  37     244.030 156.842  -8.039  1.00 95.37      IS9
ATOM  42382  C   PHE I  37     249.279 153.372  -9.853  1.00 82.67      IS9
ATOM  42383  O   PHE I  37     249.371 153.413 -11.083  1.00 82.67      IS9
ATOM  42384  N   GLN I  38     250.142 152.733  -9.066  1.00100.08      IS9
ATOM  42385  CA  GLN I  38     251.309 152.026  -9.563  1.00100.08      IS9
ATOM  42386  CB  GLN I  38     251.990 151.277  -8.418  1.00120.32      IS9
ATOM  42387  CG  GLN I  38     253.447 151.657  -8.243  1.00120.32      IS9
ATOM  42388  CD  GLN I  38     254.288 151.330  -9.465  1.00120.32      IS9
ATOM  42389  OE1 GLN I  38     253.925 151.660 -10.599  1.00120.32      IS9
ATOM  42390  NE2 GLN I  38     255.427 150.685  -9.238  1.00120.32      IS9
ATOM  42391  C   GLN I  38     251.014 151.059 -10.694  1.00100.08      IS9
ATOM  42392  O   GLN I  38     250.681 149.898 -10.458  1.00100.08      IS9
ATOM  42393  N   GLY I  39     251.150 151.550 -11.921  1.00 92.67      IS9
ATOM  42394  CA  GLY I  39     250.909 150.724 -13.087  1.00 92.67      IS9
ATOM  42395  C   GLY I  39     249.594 149.963 -13.084  1.00 92.67      IS9
ATOM  42396  O   GLY I  39     249.575 148.737 -12.993  1.00 92.67      IS9
ATOM  42397  N   LEU I  40     248.491 150.694 -13.181  1.00 69.77      IS9
ATOM  42398  CA  LEU I  40     247.165 150.095 -13.221  1.00 69.77      IS9
ATOM  42399  CB  LEU I  40     246.439 150.324 -11.894  1.00 48.51      IS9
ATOM  42400  CG  LEU I  40     247.113 149.624 -10.708  1.00 48.51      IS9
ATOM  42401  CD1 LEU I  40     246.538 150.129  -9.408  1.00 48.51      IS9
ATOM  42402  CD2 LEU I  40     246.926 148.121 -10.805  1.00 48.51      IS9
ATOM  42403  C   LEU I  40     246.433 150.770 -14.372  1.00 69.77      IS9
ATOM  42404  O   LEU I  40     245.689 151.727 -14.183  1.00 69.77      IS9
ATOM  42405  N   VAL I  41     246.676 150.251 -15.570  1.00 61.48      IS9
ATOM  42406  CA  VAL I  41     246.115 150.757 -16.820  1.00 61.48      IS9
ATOM  42407  CB  VAL I  41     245.584 149.601 -17.671  1.00 84.47      IS9
ATOM  42408  CG1 VAL I  41     245.523 150.022 -19.134  1.00 84.47      IS9
ATOM  42409  CG2 VAL I  41     246.467 148.386 -17.487  1.00 84.47      IS9
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ATOM  42410  C   VAL I  41     245.039 151.846 -16.767  1.00 61.48       IS9
ATOM  42411  O   VAL I  41     245.292 152.982 -17.162  1.00 61.48       IS9
ATOM  42412  N   ARG I  42     243.843 151.509 -16.292  1.00 88.81       IS9
ATOM  42413  CA  ARG I  42     242.749 152.479 -16.226  1.00 88.81       IS9
ATOM  42414  CB  ARG I  42     241.508 151.840 -15.616  1.00 79.06       IS9
ATOM  42415  CG  ARG I  42     240.562 151.207 -16.619  1.00 79.06       IS9
ATOM  42416  CD  ARG I  42     239.137 151.241 -16.078  1.00 79.06       IS9
ATOM  42417  NE  ARG I  42     239.122 150.937 -14.651  1.00 79.06       IS9
ATOM  42418  CZ  ARG I  42     238.614 151.739 -13.724  1.00 79.06       IS9
ATOM  42419  NH1 ARG I  42     238.072 152.898 -14.079  1.00 79.06       IS9
ATOM  42420  NH2 ARG I  42     238.669 151.389 -12.444  1.00 79.06       IS9
ATOM  42421  C   ARG I  42     243.023 153.783 -15.477  1.00 88.81       IS9
ATOM  42422  O   ARG I  42     242.527 154.840 -15.878  1.00 88.81       IS9
ATOM  42423  N   ALA I  43     243.786 153.696 -14.387  1.00 98.03       IS9
ATOM  42424  CA  ALA I  43     244.126 154.852 -13.550  1.00 98.03       IS9
ATOM  42425  CB  ALA I  43     245.566 154.740 -13.066  1.00 48.54       IS9
ATOM  42426  C   ALA I  43     243.922 156.173 -14.275  1.00 98.03       IS9
ATOM  42427  O   ALA I  43     243.152 157.028 -13.833  1.00 98.03       IS9
ATOM  42428  N   VAL I  44     244.626 156.328 -15.390  1.00 60.16       IS9
ATOM  42429  CA  VAL I  44     244.525 157.525 -16.210  1.00 60.16       IS9
ATOM  42430  CB  VAL I  44     244.820 157.195 -17.667  1.00 63.14       IS9
ATOM  42431  CG1 VAL I  44     244.350 158.329 -18.562  1.00 63.14       IS9
ATOM  42432  CG2 VAL I  44     246.307 156.928 -17.834  1.00 63.14       IS9
ATOM  42433  C   VAL I  44     243.116 158.074 -16.126  1.00 60.16       IS9
ATOM  42434  O   VAL I  44     242.890 159.199 -15.680  1.00 60.16       IS9
ATOM  42435  N   ALA I  45     242.177 157.247 -16.564  1.00 84.99       IS9
ATOM  42436  CA  ALA I  45     240.764 157.571 -16.563  1.00 84.99       IS9
ATOM  42437  CB  ALA I  45     239.964 156.307 -16.318  1.00 70.39       IS9
ATOM  42438  C   ALA I  45     240.433 158.602 -15.502  1.00 84.99       IS9
ATOM  42439  O   ALA I  45     239.828 159.632 -15.787  1.00 84.99       IS9
ATOM  42440  N   ALA I  46     240.851 158.311 -14.276  1.00 75.34       IS9
ATOM  42441  CA  ALA I  46     240.605 159.169 -13.122  1.00 75.34       IS9
ATOM  42442  CB  ALA I  46     241.573 158.793 -12.013  1.00 35.59       IS9
ATOM  42443  C   ALA I  46     240.672 160.676 -13.375  1.00 75.34       IS9
ATOM  42444  O   ALA I  46     240.145 161.469 -12.592  1.00 75.34       IS9
ATOM  42445  N   LEU I  47     241.300 161.070 -14.473  1.00 67.03       IS9
ATOM  42446  CA  LEU I  47     241.460 162.482 -14.774  1.00 67.03       IS9
ATOM  42447  CB  LEU I  47     242.957 162.792 -14.888  1.00 74.27       IS9
ATOM  42448  CG  LEU I  47     243.820 162.048 -13.859  1.00 74.27       IS9
ATOM  42449  CD1 LEU I  47     245.267 162.130 -14.257  1.00 74.27       IS9
ATOM  42450  CD2 LEU I  47     243.603 162.624 -12.475  1.00 74.27       IS9
ATOM  42451  C   LEU I  47     240.745 162.914 -16.044  1.00 67.03       IS9
ATOM  42452  O   LEU I  47     240.837 164.070 -16.451  1.00 67.03       IS9
ATOM  42453  N   GLU I  48     240.027 161.984 -16.661  1.00 96.48       IS9
ATOM  42454  CA  GLU I  48     239.301 162.261 -17.897  1.00 96.48       IS9
ATOM  42455  CB  GLU I  48     238.317 161.126 -18.187  1.00189.05       IS9
ATOM  42456  CG  GLU I  48     237.795 161.102 -19.615  1.00189.05       IS9
ATOM  42457  CD  GLU I  48     238.883 160.813 -20.631  1.00189.05       IS9
ATOM  42458  OE1 GLU I  48     239.832 161.617 -20.736  1.00189.05       IS9
ATOM  42459  OE2 GLU I  48     238.789 159.779 -21.324  1.00189.05       IS9
ATOM  42460  C   GLU I  48     238.559 163.604 -17.891  1.00 96.48       IS9
ATOM  42461  O   GLU I  48     238.586 164.340 -18.880  1.00 96.48       IS9
ATOM  42462  N   PRO I  49     237.887 163.945 -16.779  1.00 87.15       IS9
ATOM  42463  CD  PRO I  49     237.913 163.372 -15.424  1.00 69.21       IS9
ATOM  42464  CA  PRO I  49     237.182 165.230 -16.778  1.00 87.15       IS9
ATOM  42465  CB  PRO I  49     236.759 165.387 -15.318  1.00 69.21       IS9
ATOM  42466  CG  PRO I  49     237.805 164.605 -14.576  1.00 69.21       IS9
ATOM  42467  C   PRO I  49     238.087 166.363 -17.251  1.00 87.15       IS9
ATOM  42468  O   PRO I  49     237.707 167.172 -18.099  1.00 87.15       IS9
ATOM  42469  N   LEU I  50     239.293 166.408 -16.695  1.00 92.75       IS9
ATOM  42470  CA  LEU I  50     240.263 167.428 -17.055  1.00 92.75       IS9
ATOM  42471  CB  LEU I  50     241.590 167.155 -16.358  1.00 53.95       IS9
ATOM  42472  CG  LEU I  50     241.435 167.199 -14.837  1.00 53.95       IS9
ATOM  42473  CD1 LEU I  50     242.612 166.533 -14.147  1.00 53.95       IS9
ATOM  42474  CD2 LEU I  50     241.280 168.643 -14.402  1.00 53.95       IS9
ATOM  42475  C   LEU I  50     240.451 167.405 -18.553  1.00 92.75       IS9
ATOM  42476  O   LEU I  50     240.160 168.384 -19.232  1.00 92.75       IS9
ATOM  42477  N   ARG I  51     240.923 166.277 -19.069  1.00 89.58       IS9
ATOM  42478  CA  ARG I  51     241.138 166.139 -20.501  1.00 89.58       IS9
ATOM  42479  CB  ARG I  51     241.599 164.718 -20.840  1.00184.92       IS9
ATOM  42480  CG  ARG I  51     242.716 164.191 -19.956  1.00184.92       IS9
ATOM  42481  CD  ARG I  51     243.233 162.847 -20.452  1.00184.92       IS9
ATOM  42482  NE  ARG I  51     244.092 162.198 -19.465  1.00184.92       IS9
ATOM  42483  CZ  ARG I  51     243.655 161.667 -18.327  1.00184.92       IS9
ATOM  42484  NH1 ARG I  51     242.364 161.702 -18.027  1.00184.92       IS9
ATOM  42485  NH2 ARG I  51     244.510 161.108 -17.482  1.00184.92       IS9
ATOM  42486  C   ARG I  51     239.834 166.433 -21.237  1.00 89.58       IS9
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ATOM  42487  O   ARG I  51     239.824 166.654 -22.452  1.00 89.58      IS9
ATOM  42488  N   ALA I  52     238.737 166.441 -20.487  1.00106.22      IS9
ATOM  42489  CA  ALA I  52     237.420 166.690 -21.056  1.00106.22      IS9
ATOM  42490  CB  ALA I  52     236.363 166.082 -20.161  1.00 70.04      IS9
ATOM  42491  C   ALA I  52     237.132 168.172 -21.268  1.00106.22      IS9
ATOM  42492  O   ALA I  52     236.217 168.536 -22.010  1.00106.22      IS9
ATOM  42493  N   VAL I  53     237.920 169.021 -20.617  1.00164.61      IS9
ATOM  42494  CA  VAL I  53     237.746 170.465 -20.724  1.00164.61      IS9
ATOM  42495  CB  VAL I  53     237.076 171.026 -19.464  1.00 90.65      IS9
ATOM  42496  CG1 VAL I  53     235.679 170.443 -19.313  1.00 90.65      IS9
ATOM  42497  CG2 VAL I  53     237.922 170.694 -18.252  1.00 90.65      IS9
ATOM  42498  C   VAL I  53     239.076 171.187 -20.916  1.00164.61      IS9
ATOM  42499  O   VAL I  53     239.229 172.341 -20.511  1.00164.61      IS9
ATOM  42500  N   ASP I  54     240.035 170.502 -21.532  1.00 98.95      IS9
ATOM  42501  CA  ASP I  54     241.351 171.079 -21.774  1.00 98.95      IS9
ATOM  42502  CB  ASP I  54     241.221 172.299 -22.683  1.00140.49      IS9
ATOM  42503  CG  ASP I  54     240.420 172.006 -23.932  1.00140.49      IS9
ATOM  42504  OD1 ASP I  54     240.911 171.246 -24.793  1.00140.49      IS9
ATOM  42505  OD2 ASP I  54     239.293 172.528 -24.049  1.00140.49      IS9
ATOM  42506  C   ASP I  54     241.983 171.486 -20.448  1.00 98.95      IS9
ATOM  42507  O   ASP I  54     242.750 172.443 -20.381  1.00 98.95      IS9
ATOM  42508  N   ALA I  55     241.649 170.753 -19.392  1.00 85.68      IS9
ATOM  42509  CA  ALA I  55     242.178 171.036 -18.068  1.00 85.68      IS9
ATOM  42510  CB  ALA I  55     241.172 170.622 -17.003  1.00 84.90      IS9
ATOM  42511  C   ALA I  55     243.501 170.315 -17.852  1.00 85.68      IS9
ATOM  42512  O   ALA I  55     244.076 169.747 -18.788  1.00 85.68      IS9
ATOM  42513  N   LEU I  56     243.971 170.339 -16.608  1.00162.08      IS9
ATOM  42514  CA  LEU I  56     245.235 169.718 -16.233  1.00162.08      IS9
ATOM  42515  CB  LEU I  56     245.349 168.312 -16.831  1.00141.27      IS9
ATOM  42516  CG  LEU I  56     246.285 167.332 -16.120  1.00141.27      IS9
ATOM  42517  CD1 LEU I  56     246.235 165.995 -16.834  1.00141.27      IS9
ATOM  42518  CD2 LEU I  56     247.705 167.871 -16.092  1.00141.27      IS9
ATOM  42519  C   LEU I  56     246.339 170.618 -16.777  1.00162.08      IS9
ATOM  42520  O   LEU I  56     247.298 170.940 -16.073  1.00162.08      IS9
ATOM  42521  N   GLY I  57     246.184 171.026 -18.035  1.00179.73      IS9
ATOM  42522  CA  GLY I  57     247.149 171.907 -18.667  1.00179.73      IS9
ATOM  42523  C   GLY I  57     246.770 173.352 -18.406  1.00179.73      IS9
ATOM  42524  O   GLY I  57     246.952 174.226 -19.255  1.00179.73      IS9
ATOM  42525  N   ARG I  58     246.229 173.590 -17.215  1.00135.55      IS9
ATOM  42526  CA  ARG I  58     245.800 174.913 -16.781  1.00135.55      IS9
ATOM  42527  CB  ARG I  58     244.651 175.418 -17.665  1.00153.27      IS9
ATOM  42528  CG  ARG I  58     244.162 176.831 -17.337  1.00153.27      IS9
ATOM  42529  CD  ARG I  58     242.922 176.820 -16.451  1.00153.27      IS9
ATOM  42530  NE  ARG I  58     241.763 176.257 -17.142  1.00153.27      IS9
ATOM  42531  CZ  ARG I  58     241.161 176.823 -18.184  1.00153.27      IS9
ATOM  42532  NH1 ARG I  58     241.601 177.978 -18.662  1.00153.27      IS9
ATOM  42533  NH2 ARG I  58     240.123 176.228 -18.756  1.00153.27      IS9
ATOM  42534  C   ARG I  58     245.337 174.766 -15.338  1.00135.55      IS9
ATOM  42535  O   ARG I  58     245.046 175.749 -14.653  1.00135.55      IS9
ATOM  42536  N   PHE I  59     245.283 173.518 -14.885  1.00 95.45      IS9
ATOM  42537  CA  PHE I  59     244.863 173.209 -13.525  1.00 95.45      IS9
ATOM  42538  CB  PHE I  59     243.505 172.512 -13.528  1.00152.65      IS9
ATOM  42539  CG  PHE I  59     242.367 173.403 -13.148  1.00152.65      IS9
ATOM  42540  CD1 PHE I  59     241.878 174.347 -14.042  1.00152.65      IS9
ATOM  42541  CD2 PHE I  59     241.789 173.304 -11.889  1.00152.65      IS9
ATOM  42542  CE1 PHE I  59     240.825 175.181 -13.687  1.00152.65      IS9
ATOM  42543  CE2 PHE I  59     240.737 174.133 -11.522  1.00152.65      IS9
ATOM  42544  CZ  PHE I  59     240.253 175.074 -12.423  1.00152.65      IS9
ATOM  42545  C   PHE I  59     245.862 172.312 -12.819  1.00 95.45      IS9
ATOM  42546  O   PHE I  59     246.860 171.891 -13.400  1.00 95.45      IS9
ATOM  42547  N   ASP I  60     245.567 172.018 -11.558  1.00 85.96      IS9
ATOM  42548  CA  ASP I  60     246.403 171.162 -10.723  1.00 85.96      IS9
ATOM  42549  CB  ASP I  60     247.572 171.968 -10.156  1.00144.16      IS9
ATOM  42550  CG  ASP I  60     248.643 171.093  -9.554  1.00144.16      IS9
ATOM  42551  OD1 ASP I  60     248.346 170.368  -8.583  1.00144.16      IS9
ATOM  42552  OD2 ASP I  60     249.784 171.133 -10.058  1.00144.16      IS9
ATOM  42553  C   ASP I  60     245.479 170.687  -9.602  1.00 85.96      IS9
ATOM  42554  O   ASP I  60     244.479 171.352  -9.314  1.00 85.96      IS9
ATOM  42555  N   ALA I  61     245.790 169.552  -8.973  1.00 88.20      IS9
ATOM  42556  CA  ALA I  61     244.919 169.043  -7.912  1.00 88.20      IS9
ATOM  42557  CB  ALA I  61     243.794 168.226  -8.527  1.00144.18      IS9
ATOM  42558  C   ALA I  61     245.568 168.236  -6.795  1.00 88.20      IS9
ATOM  42559  O   ALA I  61     246.408 167.367  -7.032  1.00 88.20      IS9
ATOM  42560  N   TYR I  62     245.160 168.540  -5.569  1.00 65.23      IS9
ATOM  42561  CA  TYR I  62     245.656 167.836  -4.399  1.00 65.23      IS9
ATOM  42562  CB  TYR I  62     245.944 168.800  -3.257  1.00 87.15      IS9
ATOM  42563  CG  TYR I  62     246.178 168.109  -1.933  1.00 87.15      IS9
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ATOM  42564  CD1 TYR I  62     247.273 167.267  -1.746  1.00 87.15      IS9
ATOM  42565  CE1 TYR I  62     247.501 166.639  -0.516  1.00 87.15      IS9
ATOM  42566  CD2 TYR I  62     245.308 168.306  -0.861  1.00 87.15      IS9
ATOM  42567  CE2 TYR I  62     245.523 167.685   0.373  1.00 87.15      IS9
ATOM  42568  CZ  TYR I  62     246.623 166.854   0.544  1.00 87.15      IS9
ATOM  42569  OH  TYR I  62     246.856 166.260   1.773  1.00 87.15      IS9
ATOM  42570  C   TYR I  62     244.510 166.929  -4.012  1.00 65.23      IS9
ATOM  42571  O   TYR I  62     243.435 167.401  -3.637  1.00 65.23      IS9
ATOM  42572  N   ILE I  63     244.742 165.625  -4.099  1.00103.70      IS9
ATOM  42573  CA  ILE I  63     243.702 164.656  -3.804  1.00103.70      IS9
ATOM  42574  CB  ILE I  63     243.470 163.728  -5.014  1.00 65.45      IS9
ATOM  42575  CG2 ILE I  63     242.178 162.961  -4.840  1.00 65.45      IS9
ATOM  42576  CG1 ILE I  63     243.407 164.551  -6.300  1.00 65.45      IS9
ATOM  42577  CD1 ILE I  63     243.378 163.717  -7.553  1.00 65.45      IS9
ATOM  42578  C   ILE I  63     243.968 163.777  -2.593  1.00103.70      IS9
ATOM  42579  O   ILE I  63     245.113 163.468  -2.254  1.00103.70      IS9
ATOM  42580  N   THR I  64     242.873 163.385  -1.955  1.00 76.11      IS9
ATOM  42581  CA  THR I  64     242.883 162.508  -0.800  1.00 76.11      IS9
ATOM  42582  CB  THR I  64     242.414 163.230   0.471  1.00117.07      IS9
ATOM  42583  OG1 THR I  64     243.359 164.245   0.820  1.00117.07      IS9
ATOM  42584  CG2 THR I  64     242.279 162.244   1.623  1.00117.07      IS9
ATOM  42585  C   THR I  64     241.858 161.442  -1.141  1.00 76.11      IS9
ATOM  42586  O   THR I  64     240.766 161.762  -1.603  1.00 76.11      IS9
ATOM  42587  N   VAL I  65     242.208 160.179  -0.934  1.00 78.85      IS9
ATOM  42588  CA  VAL I  65     241.287 159.089  -1.226  1.00 78.85      IS9
ATOM  42589  CB  VAL I  65     241.649 158.386  -2.547  1.00 86.01      IS9
ATOM  42590  CG1 VAL I  65     243.042 157.796  -2.468  1.00 86.01      IS9
ATOM  42591  CG2 VAL I  65     240.629 157.312  -2.842  1.00 86.01      IS9
ATOM  42592  C   VAL I  65     241.318 158.086  -0.085  1.00 78.85      IS9
ATOM  42593  O   VAL I  65     242.387 157.683   0.369  1.00 78.85      IS9
ATOM  42594  N   ARG I  66     240.139 157.689   0.381  1.00 92.14      IS9
ATOM  42595  CA  ARG I  66     240.051 156.755   1.492  1.00 92.14      IS9
ATOM  42596  CB  ARG I  66     239.849 157.538   2.790  1.00155.94      IS9
ATOM  42597  CG  ARG I  66     239.859 156.698   4.051  1.00155.94      IS9
ATOM  42598  CD  ARG I  66     239.692 157.578   5.284  1.00155.94      IS9
ATOM  42599  NE  ARG I  66     240.730 158.603   5.376  1.00155.94      IS9
ATOM  42600  CZ  ARG I  66     242.024 158.350   5.550  1.00155.94      IS9
ATOM  42601  NH1 ARG I  66     242.455 157.100   5.655  1.00155.94      IS9
ATOM  42602  NH2 ARG I  66     242.894 159.348   5.616  1.00155.94      IS9
ATOM  42603  C   ARG I  66     238.921 155.750   1.311  1.00 92.14      IS9
ATOM  42604  O   ARG I  66     237.829 156.108   0.863  1.00 92.14      IS9
ATOM  42605  N   GLY I  67     239.200 154.490   1.649  1.00 80.64      IS9
ATOM  42606  CA  GLY I  67     238.202 153.432   1.550  1.00 80.64      IS9
ATOM  42607  C   GLY I  67     237.956 152.777   0.199  1.00 80.64      IS9
ATOM  42608  O   GLY I  67     237.807 153.451  -0.820  1.00 80.64      IS9
ATOM  42609  N   GLY I  68     237.901 151.447   0.200  1.00 62.68      IS9
ATOM  42610  CA  GLY I  68     237.650 150.700  -1.021  1.00 62.68      IS9
ATOM  42611  C   GLY I  68     238.830 149.988  -1.662  1.00 62.68      IS9
ATOM  42612  O   GLY I  68     239.531 149.192  -1.032  1.00 62.68      IS9
ATOM  42613  N   GLY I  69     239.026 150.261  -2.947  1.00 50.57      IS9
ATOM  42614  CA  GLY I  69     240.117 149.658  -3.686  1.00 50.57      IS9
ATOM  42615  C   GLY I  69     240.587 150.639  -4.737  1.00 50.57      IS9
ATOM  42616  O   GLY I  69     239.801 151.434  -5.257  1.00 50.57      IS9
ATOM  42617  N   LYS I  70     241.869 150.583  -5.063  1.00 56.67      IS9
ATOM  42618  CA  LYS I  70     242.423 151.501  -6.041  1.00 56.67      IS9
ATOM  42619  CB  LYS I  70     243.802 151.011  -6.488  1.00120.58      IS9
ATOM  42620  CG  LYS I  70     244.839 151.002  -5.362  1.00120.58      IS9
ATOM  42621  CD  LYS I  70     246.195 150.519  -5.857  1.00120.58      IS9
ATOM  42622  CE  LYS I  70     247.221 150.451  -4.736  1.00120.58      IS9
ATOM  42623  NZ  LYS I  70     248.525 149.915  -5.229  1.00120.58      IS9
ATOM  42624  C   LYS I  70     241.515 151.739  -7.250  1.00 56.67      IS9
ATOM  42625  O   LYS I  70     241.366 152.877  -7.703  1.00 56.67      IS9
ATOM  42626  N   SER I  71     240.881 150.685  -7.753  1.00 70.74      IS9
ATOM  42627  CA  SER I  71     240.021 150.841  -8.924  1.00 70.74      IS9
ATOM  42628  CB  SER I  71     239.586 149.475  -9.465  1.00 83.47      IS9
ATOM  42629  OG  SER I  71     239.033 149.607 -10.765  1.00 83.47      IS9
ATOM  42630  C   SER I  71     238.794 151.704  -8.653  1.00 70.74      IS9
ATOM  42631  O   SER I  71     238.483 152.615  -9.423  1.00 70.74      IS9
ATOM  42632  N   GLY I  72     238.090 151.412  -7.567  1.00 95.86      IS9
ATOM  42633  CA  GLY I  72     236.920 152.200  -7.239  1.00 95.86      IS9
ATOM  42634  C   GLY I  72     237.367 153.625  -6.989  1.00 95.86      IS9
ATOM  42635  O   GLY I  72     236.756 154.590  -7.456  1.00 95.86      IS9
ATOM  42636  N   GLN I  73     238.460 153.752  -6.250  1.00 70.91      IS9
ATOM  42637  CA  GLN I  73     238.995 155.056  -5.935  1.00 70.91      IS9
ATOM  42638  CB  GLN I  73     240.309 154.901  -5.191  1.00 58.57      IS9
ATOM  42639  CG  GLN I  73     240.160 154.030  -3.967  1.00 58.57      IS9
ATOM  42640  CD  GLN I  73     241.339 154.131  -3.030  1.00 58.57      IS9
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ATOM  42641  OE1 GLN I  73     242.490 154.174  -3.465  1.00 58.57       IS9
ATOM  42642  NE2 GLN I  73     241.063 154.153  -1.730  1.00 58.57       IS9
ATOM  42643  C   GLN I  73     239.186 155.825  -7.224  1.00 70.91       IS9
ATOM  42644  O   GLN I  73     238.732 156.956  -7.346  1.00 70.91       IS9
ATOM  42645  N   ILE I  74     239.839 155.204  -8.196  1.00 49.46       IS9
ATOM  42646  CA  ILE I  74     240.056 155.857  -9.482  1.00 49.46       IS9
ATOM  42647  CB  ILE I  74     240.480 154.854 -10.568  1.00 40.02       IS9
ATOM  42648  CG2 ILE I  74     240.506 155.530 -11.941  1.00 40.02       IS9
ATOM  42649  CG1 ILE I  74     241.839 154.270 -10.225  1.00 40.02       IS9
ATOM  42650  CD1 ILE I  74     242.178 153.090 -11.080  1.00 40.02       IS9
ATOM  42651  C   ILE I  74     238.774 156.517  -9.961  1.00 49.46       IS9
ATOM  42652  O   ILE I  74     238.807 157.598 -10.558  1.00 49.46       IS9
ATOM  42653  N   ASP I  75     237.646 155.859  -9.701  1.00 67.28       IS9
ATOM  42654  CA  ASP I  75     236.348 156.368 -10.127  1.00 67.28       IS9
ATOM  42655  CB  ASP I  75     235.308 155.250 -10.096  1.00139.32       IS9
ATOM  42656  CG  ASP I  75     235.523 154.230 -11.196  1.00139.32       IS9
ATOM  42657  OD1 ASP I  75     235.469 154.619 -12.384  1.00139.32       IS9
ATOM  42658  OD2 ASP I  75     235.749 153.044 -10.872  1.00139.32       IS9
ATOM  42659  C   ASP I  75     235.871 157.552  -9.305  1.00 67.28       IS9
ATOM  42660  O   ASP I  75     235.479 158.577  -9.864  1.00 67.28       IS9
ATOM  42661  N   ALA I  76     235.900 157.413  -7.984  1.00 60.73       IS9
ATOM  42662  CA  ALA I  76     235.474 158.499  -7.110  1.00 60.73       IS9
ATOM  42663  CB  ALA I  76     235.803 158.163  -5.670  1.00 74.05       IS9
ATOM  42664  C   ALA I  76     236.205 159.771  -7.544  1.00 60.73       IS9
ATOM  42665  O   ALA I  76     235.581 160.771  -7.920  1.00 60.73       IS9
ATOM  42666  N   ILE I  77     237.534 159.718  -7.492  1.00 79.25       IS9
ATOM  42667  CA  ILE I  77     238.365 160.839  -7.902  1.00 79.25       IS9
ATOM  42668  CB  ILE I  77     239.810 160.375  -8.153  1.00 56.60       IS9
ATOM  42669  CG2 ILE I  77     240.597 161.448  -8.868  1.00 56.60       IS9
ATOM  42670  CG1 ILE I  77     240.462 160.022  -6.816  1.00 56.60       IS9
ATOM  42671  CD1 ILE I  77     241.824 159.397  -6.942  1.00 56.60       IS9
ATOM  42672  C   ILE I  77     237.775 161.409  -9.181  1.00 79.25       IS9
ATOM  42673  O   ILE I  77     237.401 162.578  -9.237  1.00 79.25       IS9
ATOM  42674  N   LYS I  78     237.676 160.566 -10.201  1.00 60.49       IS9
ATOM  42675  CA  LYS I  78     237.111 160.975 -11.479  1.00 60.49       IS9
ATOM  42676  CB  LYS I  78     236.682 159.744 -12.280  1.00158.76       IS9
ATOM  42677  CG  LYS I  78     235.757 160.055 -13.451  1.00158.76       IS9
ATOM  42678  CD  LYS I  78     234.988 158.818 -13.905  1.00158.76       IS9
ATOM  42679  CE  LYS I  78     235.873 157.823 -14.645  1.00158.76       IS9
ATOM  42680  NZ  LYS I  78     236.278 158.327 -15.988  1.00158.76       IS9
ATOM  42681  C   LYS I  78     235.901 161.878 -11.280  1.00 60.49       IS9
ATOM  42682  O   LYS I  78     235.699 162.831 -12.029  1.00 60.49       IS9
ATOM  42683  N   LEU I  79     235.098 161.570 -10.266  1.00 71.35       IS9
ATOM  42684  CA  LEU I  79     233.893 162.344  -9.993  1.00 71.35       IS9
ATOM  42685  CB  LEU I  79     232.988 161.603  -9.010  1.00 75.24       IS9
ATOM  42686  CG  LEU I  79     231.489 161.561  -9.334  1.00 75.24       IS9
ATOM  42687  CD1 LEU I  79     230.740 161.230  -8.054  1.00 75.24       IS9
ATOM  42688  CD2 LEU I  79     230.992 162.889  -9.907  1.00 75.24       IS9
ATOM  42689  C   LEU I  79     234.213 163.718  -9.431  1.00 71.35       IS9
ATOM  42690  O   LEU I  79     233.930 164.731 -10.066  1.00 71.35       IS9
ATOM  42691  N   GLY I  80     234.790 163.746  -8.232  1.00 92.82       IS9
ATOM  42692  CA  GLY I  80     235.140 165.013  -7.618  1.00 92.82       IS9
ATOM  42693  C   GLY I  80     235.751 165.953  -8.640  1.00 92.82       IS9
ATOM  42694  O   GLY I  80     235.260 167.062  -8.851  1.00 92.82       IS9
ATOM  42695  N   ILE I  81     236.819 165.496  -9.285  1.00 67.63       IS9
ATOM  42696  CA  ILE I  81     237.507 166.281 -10.297  1.00 67.63       IS9
ATOM  42697  CB  ILE I  81     238.592 165.442 -10.990  1.00 72.25       IS9
ATOM  42698  CG2 ILE I  81     239.231 166.234 -12.121  1.00 72.25       IS9
ATOM  42699  CG1 ILE I  81     239.648 165.032  -9.964  1.00 72.25       IS9
ATOM  42700  CD1 ILE I  81     240.775 164.218 -10.538  1.00 72.25       IS9
ATOM  42701  C   ILE I  81     236.528 166.805 -11.344  1.00 67.63       IS9
ATOM  42702  O   ILE I  81     236.735 167.866 -11.931  1.00 67.63       IS9
ATOM  42703  N   ALA I  82     235.459 166.055 -11.578  1.00 73.33       IS9
ATOM  42704  CA  ALA I  82     234.451 166.465 -12.548  1.00 73.33       IS9
ATOM  42705  CB  ALA I  82     233.647 165.256 -13.013  1.00 78.33       IS9
ATOM  42706  C   ALA I  82     233.539 167.479 -11.874  1.00 73.33       IS9
ATOM  42707  O   ALA I  82     233.206 168.513 -12.451  1.00 73.33       IS9
ATOM  42708  N   ARG I  83     233.145 167.159 -10.643  1.00117.47       IS9
ATOM  42709  CA  ARG I  83     232.278 168.014  -9.842  1.00117.47       IS9
ATOM  42710  CB  ARG I  83     231.904 167.309  -8.532  1.00 73.28       IS9
ATOM  42711  CG  ARG I  83     230.645 166.444  -8.600  1.00 73.28       IS9
ATOM  42712  CD  ARG I  83     230.445 165.631  -7.305  1.00 73.28       IS9
ATOM  42713  NE  ARG I  83     229.038 165.300  -7.059  1.00 73.28       IS9
ATOM  42714  CZ  ARG I  83     228.591 164.636  -5.994  1.00 73.28       IS9
ATOM  42715  NH1 ARG I  83     229.439 164.211  -5.066  1.00 73.28       IS9
ATOM  42716  NH2 ARG I  83     227.289 164.424  -5.842  1.00 73.28       IS9
ATOM  42717  C   ARG I  83     232.992 169.323  -9.537  1.00117.47       IS9
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ATOM  42718  O   ARG I  83     232.518 170.401  -9.897  1.00117.47       IS9
ATOM  42719  N   ALA I  84     234.134 169.224  -8.866  1.00 67.78       IS9
ATOM  42720  CA  ALA I  84     234.914 170.404  -8.530  1.00 67.78       IS9
ATOM  42721  CB  ALA I  84     236.234 169.995  -7.908  1.00 92.68       IS9
ATOM  42722  C   ALA I  84     235.162 171.192  -9.810  1.00 67.78       IS9
ATOM  42723  O   ALA I  84     235.126 172.415  -9.817  1.00 67.78       IS9
ATOM  42724  N   LEU I  85     235.407 170.478 -10.900  1.00 62.68       IS9
ATOM  42725  CA  LEU I  85     235.659 171.124 -12.176  1.00 62.68       IS9
ATOM  42726  CB  LEU I  85     235.807 170.067 -13.269  1.00127.30       IS9
ATOM  42727  CG  LEU I  85     236.402 170.511 -14.603  1.00127.30       IS9
ATOM  42728  CD1 LEU I  85     237.672 171.312 -14.362  1.00127.30       IS9
ATOM  42729  CD2 LEU I  85     236.691 169.282 -15.450  1.00127.30       IS9
ATOM  42730  C   LEU I  85     234.520 172.083 -12.516  1.00 62.68       IS9
ATOM  42731  O   LEU I  85     234.673 172.969 -13.356  1.00 62.68       IS9
ATOM  42732  N   VAL I  86     233.375 171.891 -11.867  1.00106.78       IS9
ATOM  42733  CA  VAL I  86     232.214 172.750 -12.085  1.00106.78       IS9
ATOM  42734  CB  VAL I  86     230.889 171.972 -11.906  1.00140.74       IS9
ATOM  42735  CG1 VAL I  86     229.717 172.937 -11.851  1.00140.74       IS9
ATOM  42736  CG2 VAL I  86     230.701 171.004 -13.067  1.00140.74       IS9
ATOM  42737  C   VAL I  86     232.276 173.904 -11.091  1.00106.78       IS9
ATOM  42738  O   VAL I  86     231.682 174.962 -11.309  1.00106.78       IS9
ATOM  42739  N   GLN I  87     232.994 173.680  -9.993  1.00117.49       IS9
ATOM  42740  CA  GLN I  87     233.187 174.711  -8.981  1.00117.49       IS9
ATOM  42741  CB  GLN I  87     234.153 174.233  -7.897  1.00169.90       IS9
ATOM  42742  CG  GLN I  87     233.550 173.244  -6.933  1.00169.90       IS9
ATOM  42743  CD  GLN I  87     232.542 173.895  -6.013  1.00169.90       IS9
ATOM  42744  OE1 GLN I  87     232.906 174.671  -5.127  1.00169.90       IS9
ATOM  42745  NE2 GLN I  87     231.265 173.593  -6.223  1.00169.90       IS9
ATOM  42746  C   GLN I  87     233.814 175.858  -9.745  1.00117.49       IS9
ATOM  42747  O   GLN I  87     233.452 177.020  -9.560  1.00117.49       IS9
ATOM  42748  N   TYR I  88     234.767 175.507 -10.606  1.00 72.00       IS9
ATOM  42749  CA  TYR I  88     235.448 176.477 -11.445  1.00 72.00       IS9
ATOM  42750  CB  TYR I  88     236.560 175.793 -12.240  1.00134.34       IS9
ATOM  42751  CG  TYR I  88     237.368 176.727 -13.107  1.00134.34       IS9
ATOM  42752  CD1 TYR I  88     238.048 177.812 -12.557  1.00134.34       IS9
ATOM  42753  CE1 TYR I  88     238.810 178.666 -13.357  1.00134.34       IS9
ATOM  42754  CD2 TYR I  88     237.467 176.515 -14.480  1.00134.34       IS9
ATOM  42755  CE2 TYR I  88     238.225 177.359 -15.290  1.00134.34       IS9
ATOM  42756  CZ  TYR I  88     238.894 178.432 -14.724  1.00134.34       IS9
ATOM  42757  OH  TYR I  88     239.648 179.259 -15.529  1.00134.34       IS9
ATOM  42758  C   TYR I  88     234.364 177.009 -12.370  1.00 72.00       IS9
ATOM  42759  O   TYR I  88     233.428 177.648 -11.904  1.00 72.00       IS9
ATOM  42760  N   ASN I  89     234.464 176.745 -13.668  1.00 97.68       IS9
ATOM  42761  CA  ASN I  89     233.436 177.218 -14.586  1.00 97.68       IS9
ATOM  42762  CB  ASN I  89     233.993 177.346 -16.002  1.00136.99       IS9
ATOM  42763  CG  ASN I  89     233.006 177.990 -16.953  1.00136.99       IS9
ATOM  42764  OD1 ASN I  89     232.401 179.011 -16.634  1.00136.99       IS9
ATOM  42765  ND2 ASN I  89     232.844 177.402 -18.131  1.00136.99       IS9
ATOM  42766  C   ASN I  89     232.279 176.222 -14.562  1.00 97.68       IS9
ATOM  42767  O   ASN I  89     232.356 175.155 -15.170  1.00 97.68       IS9
ATOM  42768  N   PRO I  90     231.186 176.563 -13.856  1.00137.55       IS9
ATOM  42769  CD  PRO I  90     230.903 177.890 -13.279  1.00106.61       IS9
ATOM  42770  CA  PRO I  90     230.009 175.700 -13.742  1.00137.55       IS9
ATOM  42771  CB  PRO I  90     229.129 176.460 -12.761  1.00106.61       IS9
ATOM  42772  CG  PRO I  90     229.391 177.869 -13.141  1.00106.61       IS9
ATOM  42773  C   PRO I  90     229.317 175.458 -15.078  1.00137.55       IS9
ATOM  42774  O   PRO I  90     228.421 174.621 -15.181  1.00137.55       IS9
ATOM  42775  N   ASP I  91     229.729 176.202 -16.097  1.00 83.18       IS9
ATOM  42776  CA  ASP I  91     229.152 176.041 -17.421  1.00 83.18       IS9
ATOM  42777  CB  ASP I  91     229.345 177.315 -18.244  1.00172.57       IS9
ATOM  42778  CG  ASP I  91     228.567 178.487 -17.685  1.00172.57       IS9
ATOM  42779  OD1 ASP I  91     228.797 178.850 -16.512  1.00172.57       IS9
ATOM  42780  OD2 ASP I  91     227.724 179.044 -18.419  1.00172.57       IS9
ATOM  42781  C   ASP I  91     229.846 174.866 -18.094  1.00 83.18       IS9
ATOM  42782  O   ASP I  91     229.670 174.618 -19.290  1.00 83.18       IS9
ATOM  42783  N   TYR I  92     230.644 174.149 -17.310  1.00144.85       IS9
ATOM  42784  CA  TYR I  92     231.360 172.987 -17.808  1.00144.85       IS9
ATOM  42785  CB  TYR I  92     232.497 172.616 -16.846  1.00 99.37       IS9
ATOM  42786  CG  TYR I  92     233.800 173.336 -17.156  1.00 99.37       IS9
ATOM  42787  CD1 TYR I  92     234.814 173.441 -16.204  1.00 99.37       IS9
ATOM  42788  CE1 TYR I  92     236.012 174.087 -16.502  1.00 99.37       IS9
ATOM  42789  CD2 TYR I  92     234.024 173.897 -18.418  1.00 99.37       IS9
ATOM  42790  CE2 TYR I  92     235.215 174.539 -18.721  1.00 99.37       IS9
ATOM  42791  CZ  TYR I  92     236.201 174.631 -17.762  1.00 99.37       IS9
ATOM  42792  OH  TYR I  92     237.371 175.272 -18.075  1.00 99.37       IS9
ATOM  42793  C   TYR I  92     230.387 171.831 -17.992  1.00144.85       IS9
ATOM  42794  O   TYR I  92     230.524 171.040 -18.926  1.00144.85       IS9
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ATOM  42795  N   ARG I  93     229.401 171.742 -17.103  1.00 66.65       IS9
ATOM  42796  CA  ARG I  93     228.381 170.704 -17.198  1.00 66.65       IS9
ATOM  42797  CB  ARG I  93     227.163 171.073 -16.357  1.00119.70       IS9
ATOM  42798  CG  ARG I  93     227.371 170.947 -14.873  1.00119.70       IS9
ATOM  42799  CD  ARG I  93     226.157 171.451 -14.132  1.00119.70       IS9
ATOM  42800  NE  ARG I  93     226.233 171.148 -12.710  1.00119.70       IS9
ATOM  42801  CZ  ARG I  93     225.456 171.703 -11.788  1.00119.70       IS9
ATOM  42802  NH1 ARG I  93     224.541 172.596 -12.141  1.00119.70       IS9
ATOM  42803  NH2 ARG I  93     225.595 171.368 -10.512  1.00119.70       IS9
ATOM  42804  C   ARG I  93     227.960 170.616 -18.654  1.00 66.65       IS9
ATOM  42805  O   ARG I  93     228.100 169.575 -19.289  1.00 66.65       IS9
ATOM  42806  N   ALA I  94     227.456 171.736 -19.165  1.00 99.91       IS9
ATOM  42807  CA  ALA I  94     227.000 171.862 -20.545  1.00 99.91       IS9
ATOM  42808  CB  ALA I  94     227.413 173.219 -21.101  1.00163.34       IS9
ATOM  42809  C   ALA I  94     227.515 170.757 -21.453  1.00 99.91       IS9
ATOM  42810  O   ALA I  94     226.742 170.168 -22.206  1.00 99.91       IS9
ATOM  42811  N   LYS I  95     228.817 170.483 -21.385  1.00110.71       IS9
ATOM  42812  CA  LYS I  95     229.421 169.436 -22.204  1.00110.71       IS9
ATOM  42813  CB  LYS I  95     230.349 170.048 -23.259  1.00184.13       IS9
ATOM  42814  CG  LYS I  95     229.808 169.938 -24.683  1.00184.13       IS9
ATOM  42815  CD  LYS I  95     229.554 168.476 -25.062  1.00184.13       IS9
ATOM  42816  CE  LYS I  95     228.925 168.337 -26.444  1.00184.13       IS9
ATOM  42817  NZ  LYS I  95     228.646 166.910 -26.786  1.00184.13       IS9
ATOM  42818  C   LYS I  95     230.183 168.398 -21.383  1.00110.71       IS9
ATOM  42819  O   LYS I  95     230.664 167.397 -21.918  1.00110.71       IS9
ATOM  42820  N   LEU I  96     230.293 168.640 -20.084  1.00 68.30       IS9
ATOM  42821  CA  LEU I  96     230.980 167.716 -19.191  1.00 68.30       IS9
ATOM  42822  CB  LEU I  96     231.468 168.455 -17.948  1.00 73.26       IS9
ATOM  42823  CG  LEU I  96     232.322 167.659 -16.971  1.00 73.26       IS9
ATOM  42824  CD1 LEU I  96     233.681 167.420 -17.598  1.00 73.26       IS9
ATOM  42825  CD2 LEU I  96     232.470 168.425 -15.668  1.00 73.26       IS9
ATOM  42826  C   LEU I  96     229.942 166.686 -18.785  1.00 68.30       IS9
ATOM  42827  O   LEU I  96     230.171 165.480 -18.837  1.00 68.30       IS9
ATOM  42828  N   LYS I  97     228.789 167.205 -18.385  1.00 78.37       IS9
ATOM  42829  CA  LYS I  97     227.651 166.414 -17.952  1.00 78.37       IS9
ATOM  42830  CB  LYS I  97     226.458 167.344 -17.718  1.00194.17       IS9
ATOM  42831  CG  LYS I  97     225.201 166.680 -17.179  1.00194.17       IS9
ATOM  42832  CD  LYS I  97     224.195 167.738 -16.725  1.00194.17       IS9
ATOM  42833  CE  LYS I  97     224.792 168.615 -15.621  1.00194.17       IS9
ATOM  42834  NZ  LYS I  97     223.923 169.742 -15.195  1.00194.17       IS9
ATOM  42835  C   LYS I  97     227.269 165.316 -18.938  1.00 78.37       IS9
ATOM  42836  O   LYS I  97     227.029 164.185 -18.531  1.00 78.37       IS9
ATOM  42837  N   PRO I  98     227.202 165.637 -20.246  1.00 75.02       IS9
ATOM  42838  CD  PRO I  98     227.445 166.961 -20.844  1.00108.56       IS9
ATOM  42839  CA  PRO I  98     226.842 164.670 -21.290  1.00 75.02       IS9
ATOM  42840  CB  PRO I  98     227.167 165.419 -22.575  1.00108.56       IS9
ATOM  42841  CG  PRO I  98     226.821 166.816 -22.216  1.00108.56       IS9
ATOM  42842  C   PRO I  98     227.594 163.349 -21.186  1.00 75.02       IS9
ATOM  42843  O   PRO I  98     227.094 162.309 -21.609  1.00 75.02       IS9
ATOM  42844  N   LEU I  99     228.801 163.400 -20.630  1.00 62.44       IS9
ATOM  42845  CA  LEU I  99     229.621 162.206 -20.446  1.00 62.44       IS9
ATOM  42846  CB  LEU I  99     231.108 162.573 -20.480  1.00 90.55       IS9
ATOM  42847  CG  LEU I  99     231.765 162.847 -21.837  1.00 90.55       IS9
ATOM  42848  CD1 LEU I  99     231.932 161.533 -22.581  1.00 90.55       IS9
ATOM  42849  CD2 LEU I  99     230.931 163.835 -22.646  1.00 90.55       IS9
ATOM  42850  C   LEU I  99     229.278 161.567 -19.106  1.00 62.44       IS9
ATOM  42851  O   LEU I  99     229.933 160.632 -18.666  1.00 62.44       IS9
ATOM  42852  N   GLY I 100     228.246 162.091 -18.458  1.00142.17       IS9
ATOM  42853  CA  GLY I 100     227.819 161.554 -17.181  1.00142.17       IS9
ATOM  42854  C   GLY I 100     228.907 161.547 -16.132  1.00142.17       IS9
ATOM  42855  O   GLY I 100     228.768 160.908 -15.088  1.00142.17       IS9
ATOM  42856  N   PHE I 101     229.998 162.248 -16.408  1.00 72.14       IS9
ATOM  42857  CA  PHE I 101     231.096 162.323 -15.459  1.00 72.14       IS9
ATOM  42858  CB  PHE I 101     232.123 163.345 -15.932  1.00 81.78       IS9
ATOM  42859  CG  PHE I 101     233.026 162.838 -17.009  1.00 81.78       IS9
ATOM  42860  CD1 PHE I 101     233.301 163.620 -18.124  1.00 81.78       IS9
ATOM  42861  CD2 PHE I 101     233.620 161.585 -16.901  1.00 81.78       IS9
ATOM  42862  CE1 PHE I 101     234.154 163.164 -19.120  1.00 81.78       IS9
ATOM  42863  CE2 PHE I 101     234.476 161.118 -17.888  1.00 81.78       IS9
ATOM  42864  CZ  PHE I 101     234.744 161.912 -19.004  1.00 81.78       IS9
ATOM  42865  C   PHE I 101     230.553 162.750 -14.104  1.00 72.14       IS9
ATOM  42866  O   PHE I 101     231.211 162.594 -13.068  1.00 72.14       IS9
ATOM  42867  N   LEU I 102     229.339 163.285 -14.126  1.00123.08       IS9
ATOM  42868  CA  LEU I 102     228.693 163.775 -12.924  1.00123.08       IS9
ATOM  42869  CB  LEU I 102     227.745 164.910 -13.300  1.00142.46       IS9
ATOM  42870  CG  LEU I 102     228.322 165.875 -14.343  1.00142.46       IS9
ATOM  42871  CD1 LEU I 102     227.389 167.046 -14.515  1.00142.46       IS9
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ATOM  42872  CD2 LEU I 102     229.689 166.372 -13.906  1.00142.46       IS9
ATOM  42873  C   LEU I 102     227.942 162.694 -12.160  1.00123.08       IS9
ATOM  42874  O   LEU I 102     227.816 162.770 -10.939  1.00123.08       IS9
ATOM  42875  N   THR I 103     227.458 161.685 -12.878  1.00 95.57       IS9
ATOM  42876  CA  THR I 103     226.703 160.591 -12.266  1.00 95.57       IS9
ATOM  42877  CB  THR I 103     226.154 159.645 -13.328  1.00125.30       IS9
ATOM  42878  OG1 THR I 103     225.512 160.406 -14.358  1.00125.30       IS9
ATOM  42879  CG2 THR I 103     225.150 158.693 -12.705  1.00125.30       IS9
ATOM  42880  C   THR I 103     227.515 159.760 -11.279  1.00 95.57       IS9
ATOM  42881  O   THR I 103     228.643 159.366 -11.566  1.00 95.57       IS9
ATOM  42882  N   ARG I 104     226.921 159.476 -10.126  1.00 73.08       IS9
ATOM  42883  CA  ARG I 104     227.588 158.705  -9.085  1.00 73.08       IS9
ATOM  42884  CB  ARG I 104     227.189 159.246  -7.714  1.00 58.95       IS9
ATOM  42885  CG  ARG I 104     228.056 158.807  -6.545  1.00 58.95       IS9
ATOM  42886  CD  ARG I 104     227.903 157.358  -6.191  1.00 58.95       IS9
ATOM  42887  NE  ARG I 104     228.378 157.121  -4.834  1.00 58.95       IS9
ATOM  42888  CZ  ARG I 104     228.452 155.922  -4.263  1.00 58.95       IS9
ATOM  42889  NH1 ARG I 104     228.087 154.838  -4.934  1.00 58.95       IS9
ATOM  42890  NH2 ARG I 104     228.875 155.802  -3.011  1.00 58.95       IS9
ATOM  42891  C   ARG I 104     227.244 157.222  -9.154  1.00 73.08       IS9
ATOM  42892  O   ARG I 104     226.309 156.771  -8.497  1.00 73.08       IS9
ATOM  42893  N   ASP I 105     228.006 156.468  -9.940  1.00 74.16       IS9
ATOM  42894  CA  ASP I 105     227.791 155.028 -10.088  1.00 74.16       IS9
ATOM  42895  CB  ASP I 105     229.108 154.364 -10.496  1.00142.21       IS9
ATOM  42896  CG  ASP I 105     228.951 152.895 -10.807  1.00142.21       IS9
ATOM  42897  OD1 ASP I 105     228.540 152.140  -9.903  1.00142.21       IS9
ATOM  42898  OD2 ASP I 105     229.243 152.499 -11.954  1.00142.21       IS9
ATOM  42899  C   ASP I 105     227.267 154.413  -8.784  1.00 74.16       IS9
ATOM  42900  O   ASP I 105     228.007 154.258  -7.808  1.00 74.16       IS9
ATOM  42901  N   ALA I 106     225.984 154.067  -8.780  1.00 81.17       IS9
ATOM  42902  CA  ALA I 106     225.345 153.493  -7.603  1.00 81.17       IS9
ATOM  42903  CB  ALA I 106     223.864 153.824  -7.612  1.00101.26       IS9
ATOM  42904  C   ALA I 106     225.537 151.986  -7.469  1.00 81.17       IS9
ATOM  42905  O   ALA I 106     225.213 151.409  -6.431  1.00 81.17       IS9
ATOM  42906  N   ARG I 107     226.053 151.350  -8.517  1.00 61.85       IS9
ATOM  42907  CA  ARG I 107     226.292 149.908  -8.507  1.00 61.85       IS9
ATOM  42908  CB  ARG I 107     226.988 149.497  -9.814  1.00 81.90       IS9
ATOM  42909  CG  ARG I 107     226.465 150.284 -11.030  1.00 81.90       IS9
ATOM  42910  CD  ARG I 107     226.767 149.668 -12.412  1.00 81.90       IS9
ATOM  42911  NE  ARG I 107     228.180 149.664 -12.795  1.00 81.90       IS9
ATOM  42912  CZ  ARG I 107     229.092 148.842 -12.284  1.00 81.90       IS9
ATOM  42913  NH1 ARG I 107     228.742 147.957 -11.367  1.00 81.90       IS9
ATOM  42914  NH2 ARG I 107     230.350 148.894 -12.698  1.00 81.90       IS9
ATOM  42915  C   ARG I 107     227.138 149.554  -7.274  1.00 61.85       IS9
ATOM  42916  O   ARG I 107     228.175 150.163  -7.012  1.00 61.85       IS9
ATOM  42917  N   VAL I 108     226.673 148.579  -6.505  1.00 50.82       IS9
ATOM  42918  CA  VAL I 108     227.362 148.170  -5.292  1.00 50.82       IS9
ATOM  42919  CB  VAL I 108     226.833 148.961  -4.082  1.00 47.42       IS9
ATOM  42920  CG1 VAL I 108     227.683 148.662  -2.852  1.00 47.42       IS9
ATOM  42921  CG2 VAL I 108     226.817 150.434  -4.394  1.00 47.42       IS9
ATOM  42922  C   VAL I 108     227.159 146.686  -4.990  1.00 50.82       IS9
ATOM  42923  O   VAL I 108     226.171 146.085  -5.413  1.00 50.82       IS9
ATOM  42924  N   VAL I 109     228.083 146.108  -4.235  1.00 51.39       IS9
ATOM  42925  CA  VAL I 109     227.994 144.703  -3.865  1.00 51.39       IS9
ATOM  42926  CB  VAL I 109     228.993 144.369  -2.758  1.00 29.75       IS9
ATOM  42927  CG1 VAL I 109     228.869 142.900  -2.358  1.00 29.75       IS9
ATOM  42928  CG2 VAL I 109     230.390 144.704  -3.221  1.00 29.75       IS9
ATOM  42929  C   VAL I 109     226.609 144.320  -3.351  1.00 51.39       IS9
ATOM  42930  O   VAL I 109     226.112 144.923  -2.389  1.00 51.39       IS9
ATOM  42931  N   GLU I 110     226.001 143.311  -3.978  1.00 42.20       IS9
ATOM  42932  CA  GLU I 110     224.684 142.844  -3.566  1.00 42.20       IS9
ATOM  42933  CB  GLU I 110     224.037 142.015  -4.676  1.00111.26       IS9
ATOM  42934  CG  GLU I 110     222.704 141.393  -4.279  1.00111.26       IS9
ATOM  42935  CD  GLU I 110     222.062 140.599  -5.405  1.00111.26       IS9
ATOM  42936  OE1 GLU I 110     221.722 141.212  -6.440  1.00111.26       IS9
ATOM  42937  OE2 GLU I 110     221.900 139.365  -5.253  1.00111.26       IS9
ATOM  42938  C   GLU I 110     224.765 142.017  -2.276  1.00 42.20       IS9
ATOM  42939  O   GLU I 110     225.679 141.210  -2.076  1.00 42.20       IS9
ATOM  42940  N   ARG I 111     223.798 142.244  -1.398  1.00 67.43       IS9
ATOM  42941  CA  ARG I 111     223.717 141.559  -0.112  1.00 67.43       IS9
ATOM  42942  CB  ARG I 111     222.376 141.917   0.542  1.00107.77       IS9
ATOM  42943  CG  ARG I 111     222.178 141.462   1.976  1.00107.77       IS9
ATOM  42944  CD  ARG I 111     221.800 140.000   2.064  1.00107.77       IS9
ATOM  42945  NE  ARG I 111     220.967 139.729   3.230  1.00107.77       IS9
ATOM  42946  CZ  ARG I 111     219.776 140.283   3.427  1.00107.77       IS9
ATOM  42947  NH1 ARG I 111     219.282 141.136   2.538  1.00107.77       IS9
ATOM  42948  NH2 ARG I 111     219.073 139.984   4.511  1.00107.77       IS9
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ATOM  42949  C   ARG I 111     223.846 140.054  -0.298  1.00 67.43      IS9
ATOM  42950  O   ARG I 111     223.488 139.528  -1.336  1.00 67.43      IS9
ATOM  42951  N   LYS I 112     224.368 139.371   0.710  1.00 63.35      IS9
ATOM  42952  CA  LYS I 112     224.534 137.922   0.669  1.00 63.35      IS9
ATOM  42953  CB  LYS I 112     225.734 137.512   1.520  1.00 46.91      IS9
ATOM  42954  CG  LYS I 112     226.235 136.091   1.328  1.00 46.91      IS9
ATOM  42955  CD  LYS I 112     225.276 135.043   1.824  1.00 46.91      IS9
ATOM  42956  CE  LYS I 112     225.905 133.654   1.745  1.00 46.91      IS9
ATOM  42957  NZ  LYS I 112     224.959 132.577   2.184  1.00 46.91      IS9
ATOM  42958  C   LYS I 112     223.277 137.303   1.256  1.00 63.35      IS9
ATOM  42959  O   LYS I 112     223.042 137.408   2.463  1.00 63.35      IS9
ATOM  42960  N   LYS I 113     222.474 136.657   0.414  1.00 56.54      IS9
ATOM  42961  CA  LYS I 113     221.233 136.026   0.864  1.00 56.54      IS9
ATOM  42962  CB  LYS I 113     220.244 135.961  -0.285  1.00 42.75      IS9
ATOM  42963  CG  LYS I 113     219.546 137.275  -0.564  1.00 42.75      IS9
ATOM  42964  CD  LYS I 113     220.424 138.265  -1.281  1.00 42.75      IS9
ATOM  42965  CE  LYS I 113     219.568 139.400  -1.812  1.00 42.75      IS9
ATOM  42966  NZ  LYS I 113     220.289 140.320  -2.735  1.00 42.75      IS9
ATOM  42967  C   LYS I 113     221.430 134.629   1.432  1.00 56.54      IS9
ATOM  42968  O   LYS I 113     222.380 133.939   1.074  1.00 56.54      IS9
ATOM  42969  N   TYR I 114     220.539 134.204   2.323  1.00 74.46      IS9
ATOM  42970  CA  TYR I 114     220.679 132.869   2.904  1.00 74.46      IS9
ATOM  42971  CB  TYR I 114     219.983 132.770   4.274  1.00 68.56      IS9
ATOM  42972  CG  TYR I 114     218.513 133.098   4.270  1.00 68.56      IS9
ATOM  42973  CD1 TYR I 114     217.590 132.221   3.719  1.00 68.56      IS9
ATOM  42974  CE1 TYR I 114     216.239 132.527   3.688  1.00 68.56      IS9
ATOM  42975  CD2 TYR I 114     218.047 134.298   4.800  1.00 68.56      IS9
ATOM  42976  CE2 TYR I 114     216.699 134.615   4.779  1.00 68.56      IS9
ATOM  42977  CZ  TYR I 114     215.799 133.723   4.218  1.00 68.56      IS9
ATOM  42978  OH  TYR I 114     214.456 134.019   4.175  1.00 68.56      IS9
ATOM  42979  C   TYR I 114     220.123 131.835   1.950  1.00 74.46      IS9
ATOM  42980  O   TYR I 114     219.249 132.133   1.136  1.00 74.46      IS9
ATOM  42981  N   GLY I 115     220.641 130.618   2.054  1.00 52.88      IS9
ATOM  42982  CA  GLY I 115     220.200 129.556   1.174  1.00 52.88      IS9
ATOM  42983  C   GLY I 115     220.754 129.768  -0.220  1.00 52.88      IS9
ATOM  42984  O   GLY I 115     220.301 129.161  -1.185  1.00 52.88      IS9
ATOM  42985  N   LYS I 116     221.738 130.647  -0.327  1.00 68.81      IS9
ATOM  42986  CA  LYS I 116     222.351 130.914  -1.606  1.00 68.81      IS9
ATOM  42987  CB  LYS I 116     221.557 131.980  -2.341  1.00 36.07      IS9
ATOM  42988  CG  LYS I 116     220.400 131.379  -3.117  1.00 36.07      IS9
ATOM  42989  CD  LYS I 116     219.478 132.427  -3.689  1.00 36.07      IS9
ATOM  42990  CE  LYS I 116     218.620 131.839  -4.792  1.00 36.07      IS9
ATOM  42991  NZ  LYS I 116     219.294 131.907  -6.136  1.00 36.07      IS9
ATOM  42992  C   LYS I 116     223.810 131.303  -1.497  1.00 68.81      IS9
ATOM  42993  O   LYS I 116     224.151 132.448  -1.193  1.00 68.81      IS9
ATOM  42994  N   HIS I 117     224.667 130.318  -1.745  1.00 46.17      IS9
ATOM  42995  CA  HIS I 117     226.110 130.485  -1.709  1.00 46.17      IS9
ATOM  42996  CB  HIS I 117     226.748 129.691  -2.838  1.00 57.38      IS9
ATOM  42997  CG  HIS I 117     226.655 128.212  -2.665  1.00 57.38      IS9
ATOM  42998  CD2 HIS I 117     226.186 127.247  -3.491  1.00 57.38      IS9
ATOM  42999  ND1 HIS I 117     227.126 127.563  -1.544  1.00 57.38      IS9
ATOM  43000  CE1 HIS I 117     226.954 126.261  -1.688  1.00 57.38      IS9
ATOM  43001  NE2 HIS I 117     226.385 126.042  -2.861  1.00 57.38      IS9
ATOM  43002  C   HIS I 117     226.614 131.915  -1.815  1.00 46.17      IS9
ATOM  43003  O   HIS I 117     227.520 132.312  -1.104  1.00 46.17      IS9
ATOM  43004  N   LYS I 118     226.040 132.703  -2.699  1.00 60.52      IS9
ATOM  43005  CA  LYS I 118     226.554 134.036  -2.843  1.00 60.52      IS9
ATOM  43006  CB  LYS I 118     227.658 134.020  -3.888  1.00 53.14      IS9
ATOM  43007  CG  LYS I 118     228.904 133.246  -3.508  1.00 53.14      IS9
ATOM  43008  CD  LYS I 118     229.853 133.073  -4.702  1.00 53.14      IS9
ATOM  43009  CE  LYS I 118     229.912 134.311  -5.606  1.00 53.14      IS9
ATOM  43010  NZ  LYS I 118     228.597 134.561  -6.287  1.00 53.14      IS9
ATOM  43011  C   LYS I 118     225.514 135.034  -3.263  1.00 60.52      IS9
ATOM  43012  O   LYS I 118     225.663 135.655  -4.314  1.00 60.52      IS9
ATOM  43013  N   ALA I 119     224.486 135.229  -2.451  1.00 69.98      IS9
ATOM  43014  CA  ALA I 119     223.440 136.169  -2.827  1.00 69.98      IS9
ATOM  43015  CB  ALA I 119     224.036 137.450  -3.401  1.00 26.17      IS9
ATOM  43016  C   ALA I 119     222.624 135.478  -3.893  1.00 69.98      IS9
ATOM  43017  O   ALA I 119     221.564 134.916  -3.607  1.00 69.98      IS9
ATOM  43018  N   ARG I 120     223.128 135.520  -5.126  1.00 37.68      IS9
ATOM  43019  CA  ARG I 120     222.452 134.881  -6.239  1.00 37.68      IS9
ATOM  43020  CB  ARG I 120     222.613 135.713  -7.508  1.00 36.50      IS9
ATOM  43021  CG  ARG I 120     221.957 137.080  -7.399  1.00 36.50      IS9
ATOM  43022  CD  ARG I 120     221.677 137.696  -8.753  1.00 36.50      IS9
ATOM  43023  NE  ARG I 120     221.253 139.083  -8.612  1.00 36.50      IS9
ATOM  43024  CZ  ARG I 120     220.807 139.846  -9.611  1.00 36.50      IS9
ATOM  43025  NH1 ARG I 120     220.719 139.364 -10.845  1.00 36.50      IS9
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ATOM  43026  NH2 ARG I 120     220.439 141.103  -9.383  1.00 36.50       IS9
ATOM  43027  C   ARG I 120     222.900 133.443  -6.479  1.00 37.68       IS9
ATOM  43028  O   ARG I 120     222.073 132.545  -6.508  1.00 37.68       IS9
ATOM  43029  N   ARG I 121     224.197 133.212  -6.639  1.00 42.42       IS9
ATOM  43030  CA  ARG I 121     224.693 131.855  -6.878  1.00 42.42       IS9
ATOM  43031  CB  ARG I 121     226.206 131.799  -6.638  1.00 74.97       IS9
ATOM  43032  CG  ARG I 121     226.900 130.557  -7.191  1.00 74.97       IS9
ATOM  43033  CD  ARG I 121     226.229 129.277  -6.722  1.00 74.97       IS9
ATOM  43034  NE  ARG I 121     226.995 128.060  -7.003  1.00 74.97       IS9
ATOM  43035  CZ  ARG I 121     227.326 127.617  -8.213  1.00 74.97       IS9
ATOM  43036  NH1 ARG I 121     226.975 128.285  -9.302  1.00 74.97       IS9
ATOM  43037  NH2 ARG I 121     227.997 126.481  -8.330  1.00 74.97       IS9
ATOM  43038  C   ARG I 121     223.971 130.909  -5.926  1.00 42.42       IS9
ATOM  43039  O   ARG I 121     224.172 130.974  -4.721  1.00 42.42       IS9
ATOM  43040  N   ALA I 122     223.122 130.040  -6.469  1.00 32.52       IS9
ATOM  43041  CA  ALA I 122     222.354 129.088  -5.653  1.00 32.52       IS9
ATOM  43042  CB  ALA I 122     220.946 128.985  -6.181  1.00 56.25       IS9
ATOM  43043  C   ALA I 122     222.984 127.696  -5.583  1.00 32.52       IS9
ATOM  43044  O   ALA I 122     223.507 127.174  -6.568  1.00 32.52       IS9
ATOM  43045  N   PRO I 123     222.931 127.069  -4.410  1.00 35.98       IS9
ATOM  43046  CD  PRO I 123     222.176 127.472  -3.219  1.00 31.87       IS9
ATOM  43047  CA  PRO I 123     223.514 125.736  -4.246  1.00 35.98       IS9
ATOM  43048  CB  PRO I 123     223.050 125.315  -2.851  1.00 31.87       IS9
ATOM  43049  CG  PRO I 123     221.831 126.152  -2.622  1.00 31.87       IS9
ATOM  43050  C   PRO I 123     223.116 124.767  -5.347  1.00 35.98       IS9
ATOM  43051  O   PRO I 123     222.048 124.880  -5.927  1.00 35.98       IS9
ATOM  43052  N   GLN I 124     224.002 123.832  -5.652  1.00 69.14       IS9
ATOM  43053  CA  GLN I 124     223.757 122.864  -6.707  1.00 69.14       IS9
ATOM  43054  CB  GLN I 124     225.091 122.385  -7.285  1.00 49.89       IS9
ATOM  43055  CG  GLN I 124     225.052 121.017  -7.918  1.00 49.89       IS9
ATOM  43056  CD  GLN I 124     226.316 120.713  -8.683  1.00 49.89       IS9
ATOM  43057  OE1 GLN I 124     226.686 121.456  -9.599  1.00 49.89       IS9
ATOM  43058  NE2 GLN I 124     226.994 119.619  -8.317  1.00 49.89       IS9
ATOM  43059  C   GLN I 124     222.963 121.684  -6.201  1.00 69.14       IS9
ATOM  43060  O   GLN I 124     223.123 121.268  -5.051  1.00 69.14       IS9
ATOM  43061  N   TYR I 125     222.104 121.146  -7.065  1.00 67.07       IS9
ATOM  43062  CA  TYR I 125     221.305 119.992  -6.688  1.00 67.07       IS9
ATOM  43063  CB  TYR I 125     219.835 120.369  -6.562  1.00 98.25       IS9
ATOM  43064  CG  TYR I 125     219.179 120.772  -7.842  1.00 98.25       IS9
ATOM  43065  CD1 TYR I 125     218.591 119.826  -8.666  1.00 98.25       IS9
ATOM  43066  CE1 TYR I 125     217.919 120.200  -9.818  1.00 98.25       IS9
ATOM  43067  CD2 TYR I 125     219.092 122.110  -8.202  1.00 98.25       IS9
ATOM  43068  CE2 TYR I 125     218.424 122.502  -9.348  1.00 98.25       IS9
ATOM  43069  CZ  TYR I 125     217.832 121.544 -10.158  1.00 98.25       IS9
ATOM  43070  OH  TYR I 125     217.140 121.934 -11.294  1.00 98.25       IS9
ATOM  43071  C   TYR I 125     221.465 118.819  -7.632  1.00 67.07       IS9
ATOM  43072  O   TYR I 125     222.015 118.942  -8.730  1.00 67.07       IS9
ATOM  43073  N   SER I 126     220.987 117.670  -7.179  1.00 80.60       IS9
ATOM  43074  CA  SER I 126     221.095 116.453  -7.951  1.00 80.60       IS9
ATOM  43075  CB  SER I 126     222.223 115.602  -7.385  1.00173.08       IS9
ATOM  43076  OG  SER I 126     222.012 115.374  -6.001  1.00173.08       IS9
ATOM  43077  C   SER I 126     219.812 115.640  -7.946  1.00 80.60       IS9
ATOM  43078  O   SER I 126     218.832 115.975  -7.270  1.00 80.60       IS9
ATOM  43079  N   LYS I 127     219.849 114.560  -8.721  1.00116.41       IS9
ATOM  43080  CA  LYS I 127     218.744 113.624  -8.853  1.00116.41       IS9
ATOM  43081  CB  LYS I 127     218.981 112.442  -7.907  1.00 77.90       IS9
ATOM  43082  CG  LYS I 127     220.351 111.798  -8.135  1.00 77.90       IS9
ATOM  43083  CD  LYS I 127     220.491 111.304  -9.581  1.00 77.90       IS9
ATOM  43084  CE  LYS I 127     221.941 111.066  -9.995  1.00 77.90       IS9
ATOM  43085  NZ  LYS I 127     222.645 112.337 -10.299  1.00 77.90       IS9
ATOM  43086  C   LYS I 127     217.373 114.246  -8.631  1.00116.41       IS9
ATOM  43087  O   LYS I 127     216.517 113.676  -7.958  1.00116.41       IS9
ATOM  43088  N   ARG I 128     217.186 115.430  -9.207  1.00139.59       IS9
ATOM  43089  CA  ARG I 128     215.922 116.145  -9.124  1.00139.59       IS9
ATOM  43090  CB  ARG I 128     216.137 117.605  -8.713  1.00156.65       IS9
ATOM  43091  CG  ARG I 128     214.840 118.404  -8.645  1.00156.65       IS9
ATOM  43092  CD  ARG I 128     215.074 119.898  -8.532  1.00156.65       IS9
ATOM  43093  NE  ARG I 128     215.833 120.258  -7.338  1.00156.65       IS9
ATOM  43094  CZ  ARG I 128     215.995 121.505  -6.902  1.00156.65       IS9
ATOM  43095  NH1 ARG I 128     215.448 122.518  -7.559  1.00156.65       IS9
ATOM  43096  NH2 ARG I 128     216.702 121.740  -5.804  1.00156.65       IS9
ATOM  43097  C   ARG I 128     215.284 116.097 -10.510  1.00139.59       IS9
ATOM  43098  O   ARG I 128     215.071 117.174 -11.110  1.00139.59       IS9
ATOM  43099  OXT ARG I 128     215.016 114.974 -10.985  1.00156.65       IS9
TER   43099       ARG I 128                                              IS9
ATOM  43100  CB  LYS J   3     236.739 168.035  31.164  1.00179.89       JS10
ATOM  43101  CG  LYS J   3     237.763 168.928  30.483  1.00179.89       JS10
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ATOM  43102  CD  LYS J   3     239.159 168.331  30.563  1.00179.89      JS10
ATOM  43103  CE  LYS J   3     240.183 169.228  29.882  1.00179.89      JS10
ATOM  43104  NZ  LYS J   3     241.548 168.631  29.897  1.00179.89      JS10
ATOM  43105  C   LYS J   3     234.390 167.644  31.896  1.00 87.60      JS10
ATOM  43106  O   LYS J   3     234.494 167.531  33.116  1.00 87.60      JS10
ATOM  43107  N   LYS J   3     235.267 169.948  31.700  1.00 87.60      JS10
ATOM  43108  CA  LYS J   3     235.309 168.579  31.121  1.00 87.60      JS10
ATOM  43109  N   ILE J   4     233.485 166.983  31.179  1.00181.77      JS10
ATOM  43110  CA  ILE J   4     232.547 166.041  31.783  1.00181.77      JS10
ATOM  43111  CB  ILE J   4     231.303 166.753  32.357  1.00120.49      JS10
ATOM  43112  CG2 ILE J   4     230.462 165.758  33.147  1.00120.49      JS10
ATOM  43113  CG1 ILE J   4     231.722 167.900  33.274  1.00120.49      JS10
ATOM  43114  CD1 ILE J   4     230.587 168.812  33.654  1.00120.49      JS10
ATOM  43115  C   ILE J   4     232.070 165.020  30.750  1.00181.77      JS10
ATOM  43116  O   ILE J   4     230.949 165.110  30.248  1.00181.77      JS10
ATOM  43117  N   ARG J   5     232.926 164.057  30.423  1.00167.51      JS10
ATOM  43118  CA  ARG J   5     232.556 163.031  29.459  1.00167.51      JS10
ATOM  43119  CB  ARG J   5     233.716 162.055  29.215  1.00103.00      JS10
ATOM  43120  CG  ARG J   5     234.714 162.468  28.132  1.00103.00      JS10
ATOM  43121  CD  ARG J   5     235.739 161.345  27.900  1.00103.00      JS10
ATOM  43122  NE  ARG J   5     236.737 161.641  26.869  1.00103.00      JS10
ATOM  43123  CZ  ARG J   5     237.769 160.850  26.574  1.00103.00      JS10
ATOM  43124  NH1 ARG J   5     237.947 159.708  27.232  1.00103.00      JS10
ATOM  43125  NH2 ARG J   5     238.629 161.196  25.624  1.00103.00      JS10
ATOM  43126  C   ARG J   5     231.352 162.259  29.981  1.00167.51      JS10
ATOM  43127  O   ARG J   5     231.400 161.665  31.060  1.00167.51      JS10
ATOM  43128  N   ILE J   6     230.268 162.285  29.214  1.00102.65      JS10
ATOM  43129  CA  ILE J   6     229.055 161.571  29.586  1.00102.65      JS10
ATOM  43130  CB  ILE J   6     227.972 162.545  30.107  1.00109.97      JS10
ATOM  43131  CG2 ILE J   6     228.348 163.050  31.493  1.00109.97      JS10
ATOM  43132  CG1 ILE J   6     227.805 163.716  29.140  1.00109.97      JS10
ATOM  43133  CD1 ILE J   6     226.720 164.675  29.557  1.00109.97      JS10
ATOM  43134  C   ILE J   6     228.506 160.782  28.393  1.00102.65      JS10
ATOM  43135  O   ILE J   6     227.879 161.344  27.496  1.00102.65      JS10
ATOM  43136  N   LYS J   7     228.752 159.473  28.391  1.00190.97      JS10
ATOM  43137  CA  LYS J   7     228.294 158.598  27.312  1.00190.97      JS10
ATOM  43138  CB  LYS J   7     229.327 157.495  27.044  1.00144.74      JS10
ATOM  43139  CG  LYS J   7     230.342 157.811  25.950  1.00144.74      JS10
ATOM  43140  CD  LYS J   7     231.241 156.605  25.688  1.00144.74      JS10
ATOM  43141  CE  LYS J   7     232.053 156.743  24.398  1.00144.74      JS10
ATOM  43142  NZ  LYS J   7     233.076 157.832  24.412  1.00144.74      JS10
ATOM  43143  C   LYS J   7     226.939 157.948  27.591  1.00190.97      JS10
ATOM  43144  O   LYS J   7     226.784 157.203  28.560  1.00190.97      JS10
ATOM  43145  N   LEU J   8     225.963 158.238  26.734  1.00117.82      JS10
ATOM  43146  CA  LEU J   8     224.627 157.667  26.865  1.00117.82      JS10
ATOM  43147  CB  LEU J   8     223.549 158.703  26.502  1.00 62.60      JS10
ATOM  43148  CG  LEU J   8     223.338 159.965  27.360  1.00 62.60      JS10
ATOM  43149  CD1 LEU J   8     224.072 161.156  26.747  1.00 62.60      JS10
ATOM  43150  CD2 LEU J   8     221.844 160.275  27.459  1.00 62.60      JS10
ATOM  43151  C   LEU J   8     224.543 156.473  25.912  1.00117.82      JS10
ATOM  43152  O   LEU J   8     225.108 156.511  24.821  1.00117.82      JS10
ATOM  43153  N   ARG J   9     223.846 155.417  26.320  1.00120.86      JS10
ATOM  43154  CA  ARG J   9     223.728 154.228  25.480  1.00120.86      JS10
ATOM  43155  CB  ARG J   9     224.890 153.272  25.765  1.00109.83      JS10
ATOM  43156  CG  ARG J   9     225.021 152.875  27.226  1.00109.83      JS10
ATOM  43157  CD  ARG J   9     226.029 151.751  27.441  1.00109.83      JS10
ATOM  43158  NE  ARG J   9     227.403 152.114  27.091  1.00109.83      JS10
ATOM  43159  CZ  ARG J   9     227.908 152.087  25.859  1.00109.83      JS10
ATOM  43160  NH1 ARG J   9     227.157 151.712  24.833  1.00109.83      JS10
ATOM  43161  NH2 ARG J   9     229.174 152.425  25.651  1.00109.83      JS10
ATOM  43162  C   ARG J   9     222.410 153.484  25.663  1.00120.86      JS10
ATOM  43163  O   ARG J   9     222.158 152.896  26.714  1.00120.86      JS10
ATOM  43164  N   GLY J  10     221.577 153.496  24.628  1.00199.30      JS10
ATOM  43165  CA  GLY J  10     220.299 152.811  24.700  1.00199.30      JS10
ATOM  43166  C   GLY J  10     220.024 151.992  23.454  1.00199.30      JS10
ATOM  43167  O   GLY J  10     220.758 152.084  22.470  1.00199.30      JS10
ATOM  43168  N   PHE J  11     218.970 151.185  23.492  1.00102.02      JS10
ATOM  43169  CA  PHE J  11     218.612 150.357  22.348  1.00102.02      JS10
ATOM  43170  CB  PHE J  11     217.928 149.074  22.827  1.00 29.63      JS10
ATOM  43171  CG  PHE J  11     218.858 148.106  23.517  1.00 29.63      JS10
ATOM  43172  CD1 PHE J  11     218.357 147.161  24.433  1.00 29.63      JS10
ATOM  43173  CD2 PHE J  11     220.232 148.109  23.243  1.00 29.63      JS10
ATOM  43174  CE1 PHE J  11     219.216 146.217  25.077  1.00 29.63      JS10
ATOM  43175  CE2 PHE J  11     221.101 147.178  23.873  1.00 29.63      JS10
ATOM  43176  CZ  PHE J  11     220.588 146.229  24.795  1.00 29.63      JS10
ATOM  43177  C   PHE J  11     217.695 151.125  21.395  1.00102.02      JS10
ATOM  43178  O   PHE J  11     217.601 150.805  20.207  1.00102.02      JS10
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ATOM  43179  N   ASP J  12     217.030 152.150  21.920  1.00 64.54      JS10
ATOM  43180  CA  ASP J  12     216.125 152.963  21.118  1.00 64.54      JS10
ATOM  43181  CB  ASP J  12     214.819 153.197  21.879  1.00172.84      JS10
ATOM  43182  CG  ASP J  12     213.813 154.003  21.082  1.00172.84      JS10
ATOM  43183  OD1 ASP J  12     214.109 155.169  20.748  1.00172.84      JS10
ATOM  43184  OD2 ASP J  12     212.724 153.470  20.787  1.00172.84      JS10
ATOM  43185  C   ASP J  12     216.794 154.292  20.817  1.00 64.54      JS10
ATOM  43186  O   ASP J  12     217.208 154.999  21.738  1.00 64.54      JS10
ATOM  43187  N   HIS J  13     216.890 154.641  19.537  1.00 78.93      JS10
ATOM  43188  CA  HIS J  13     217.540 155.890  19.164  1.00 78.93      JS10
ATOM  43189  CB  HIS J  13     217.912 155.880  17.673  1.00 75.59      JS10
ATOM  43190  CG  HIS J  13     216.862 156.444  16.767  1.00 75.59      JS10
ATOM  43191  CD2 HIS J  13     216.354 157.694  16.656  1.00 75.59      JS10
ATOM  43192  ND1 HIS J  13     216.243 155.692  15.792  1.00 75.59      JS10
ATOM  43193  CE1 HIS J  13     215.400 156.454  15.120  1.00 75.59      JS10
ATOM  43194  NE2 HIS J  13     215.448 157.674  15.624  1.00 75.59      JS10
ATOM  43195  C   HIS J  13     216.754 157.156  19.514  1.00 78.93      JS10
ATOM  43196  O   HIS J  13     217.305 158.255  19.489  1.00 78.93      JS10
ATOM  43197  N   LYS J  14     215.472 157.013  19.830  1.00 84.21      JS10
ATOM  43198  CA  LYS J  14     214.661 158.169  20.201  1.00 84.21      JS10
ATOM  43199  CB  LYS J  14     213.225 158.010  19.700  1.00173.79      JS10
ATOM  43200  CG  LYS J  14     213.069 158.193  18.197  1.00173.79      JS10
ATOM  43201  CD  LYS J  14     211.604 158.167  17.790  1.00173.79      JS10
ATOM  43202  CE  LYS J  14     210.819 159.277  18.475  1.00173.79      JS10
ATOM  43203  NZ  LYS J  14     209.362 159.189  18.185  1.00173.79      JS10
ATOM  43204  C   LYS J  14     214.663 158.335  21.717  1.00 84.21      JS10
ATOM  43205  O   LYS J  14     214.821 159.440  22.233  1.00 84.21      JS10
ATOM  43206  N   THR J  15     214.497 157.225  22.426  1.00 76.99      JS10
ATOM  43207  CA  THR J  15     214.497 157.236  23.877  1.00 76.99      JS10
ATOM  43208  CB  THR J  15     214.337 155.804  24.444  1.00 98.52      JS10
ATOM  43209  OG1 THR J  15     213.788 155.869  25.764  1.00 98.52      JS10
ATOM  43210  CG2 THR J  15     215.690 155.090  24.507  1.00 98.52      JS10
ATOM  43211  C   THR J  15     215.826 157.825  24.351  1.00 76.99      JS10
ATOM  43212  O   THR J  15     216.057 157.981  25.549  1.00 76.99      JS10
ATOM  43213  N   LEU J  16     216.717 158.125  23.410  1.00 65.78      JS10
ATOM  43214  CA  LEU J  16     217.996 158.721  23.763  1.00 65.78      JS10
ATOM  43215  CB  LEU J  16     219.168 157.841  23.336  1.00 97.18      JS10
ATOM  43216  CG  LEU J  16     219.623 156.899  24.453  1.00 97.18      JS10
ATOM  43217  CD1 LEU J  16     220.964 156.262  24.101  1.00 97.18      JS10
ATOM  43218  CD2 LEU J  16     219.748 157.693  25.745  1.00 97.18      JS10
ATOM  43219  C   LEU J  16     218.137 160.097  23.157  1.00 65.78      JS10
ATOM  43220  O   LEU J  16     218.029 161.085  23.868  1.00 65.78      JS10
ATOM  43221  N   ASP J  17     218.373 160.166  21.850  1.00123.31      JS10
ATOM  43222  CA  ASP J  17     218.516 161.451  21.166  1.00123.31      JS10
ATOM  43223  CB  ASP J  17     217.967 161.357  19.739  1.00159.70      JS10
ATOM  43224  CG  ASP J  17     219.012 160.905  18.738  1.00159.70      JS10
ATOM  43225  OD1 ASP J  17     220.018 161.628  18.568  1.00159.70      JS10
ATOM  43226  OD2 ASP J  17     218.828 159.835  18.120  1.00159.70      JS10
ATOM  43227  C   ASP J  17     217.807 162.586  21.902  1.00123.31      JS10
ATOM  43228  O   ASP J  17     218.407 163.620  22.200  1.00123.31      JS10
ATOM  43229  N   ALA J  18     216.527 162.386  22.196  1.00158.98      JS10
ATOM  43230  CA  ALA J  18     215.744 163.393  22.900  1.00158.98      JS10
ATOM  43231  CB  ALA J  18     214.254 163.095  22.751  1.00133.23      JS10
ATOM  43232  C   ALA J  18     216.130 163.442  24.377  1.00158.98      JS10
ATOM  43233  O   ALA J  18     216.183 164.515  24.974  1.00158.98      JS10
ATOM  43234  N   SER J  19     216.393 162.280  24.966  1.00110.07      JS10
ATOM  43235  CA  SER J  19     216.781 162.216  26.368  1.00110.07      JS10
ATOM  43236  CB  SER J  19     216.955 160.776  26.818  1.00 60.85      JS10
ATOM  43237  OG  SER J  19     217.561 160.742  28.095  1.00 60.85      JS10
ATOM  43238  C   SER J  19     218.082 162.958  26.605  1.00110.07      JS10
ATOM  43239  O   SER J  19     218.119 163.934  27.346  1.00110.07      JS10
ATOM  43240  N   ALA J  20     219.157 162.483  25.985  1.00 86.32      JS10
ATOM  43241  CA  ALA J  20     220.454 163.130  26.134  1.00 86.32      JS10
ATOM  43242  CB  ALA J  20     221.484 162.454  25.238  1.00 64.11      JS10
ATOM  43243  C   ALA J  20     220.314 164.607  25.767  1.00 86.32      JS10
ATOM  43244  O   ALA J  20     221.153 165.429  26.128  1.00 86.32      JS10
ATOM  43245  N   GLN J  21     219.246 164.933  25.044  1.00106.30      JS10
ATOM  43246  CA  GLN J  21     218.974 166.308  24.647  1.00106.30      JS10
ATOM  43247  CB  GLN J  21     217.779 166.352  23.693  1.00170.17      JS10
ATOM  43248  CG  GLN J  21     217.317 167.748  23.316  1.00170.17      JS10
ATOM  43249  CD  GLN J  21     215.867 167.771  22.859  1.00170.17      JS10
ATOM  43250  OE1 GLN J  21     214.955 167.491  23.640  1.00170.17      JS10
ATOM  43251  NE2 GLN J  21     215.647 168.103  21.591  1.00170.17      JS10
ATOM  43252  C   GLN J  21     218.666 167.134  25.898  1.00106.30      JS10
ATOM  43253  O   GLN J  21     218.796 168.360  25.882  1.00106.30      JS10
ATOM  43254  N   LYS J  22     218.252 166.456  26.972  1.00 95.60      JS10
ATOM  43255  CA  LYS J  22     217.941 167.107  28.251  1.00 95.60      JS10
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ATOM  43257  CG  LYS J  22     215.924 165.527  28.674  1.00130.24      JS10
ATOM  43258  CD  LYS J  22     215.289 164.655  29.759  1.00130.24      JS10
ATOM  43259  CE  LYS J  22     214.141 163.804  29.224  1.00130.24      JS10
ATOM  43260  NZ  LYS J  22     214.603 162.693  28.337  1.00130.24      JS10
ATOM  43261  C   LYS J  22     219.260 167.496  28.916  1.00 95.60      JS10
ATOM  43262  O   LYS J  22     219.423 168.616  29.405  1.00 95.60      JS10
ATOM  43263  N   ILE J  23     220.191 166.546  28.938  1.00 88.95      JS10
ATOM  43264  CA  ILE J  23     221.508 166.755  29.524  1.00 88.95      JS10
ATOM  43265  CB  ILE J  23     222.308 165.425  29.581  1.00 77.00      JS10
ATOM  43266  CG2 ILE J  23     223.603 165.616  30.343  1.00 77.00      JS10
ATOM  43267  CG1 ILE J  23     221.483 164.345  30.284  1.00 77.00      JS10
ATOM  43268  CD1 ILE J  23     220.340 163.800  29.456  1.00 77.00      JS10
ATOM  43269  C   ILE J  23     222.264 167.775  28.668  1.00 88.95      JS10
ATOM  43270  O   ILE J  23     223.489 167.750  28.565  1.00 88.95      JS10
ATOM  43271  N   VAL J  24     221.505 168.663  28.036  1.00114.29      JS10
ATOM  43272  CA  VAL J  24     222.064 169.712  27.202  1.00114.29      JS10
ATOM  43273  CB  VAL J  24     221.574 169.613  25.748  1.00148.76      JS10
ATOM  43274  CG1 VAL J  24     222.274 170.662  24.898  1.00148.76      JS10
ATOM  43275  CG2 VAL J  24     221.830 168.221  25.203  1.00148.76      JS10
ATOM  43276  C   VAL J  24     221.565 171.019  27.789  1.00114.29      JS10
ATOM  43277  O   VAL J  24     222.353 171.846  28.238  1.00114.29      JS10
ATOM  43278  N   GLU J  25     220.247 171.195  27.790  1.00142.45      JS10
ATOM  43279  CA  GLU J  25     219.652 172.402  28.343  1.00142.45      JS10
ATOM  43280  CB  GLU J  25     218.177 172.510  27.945  1.00168.97      JS10
ATOM  43281  CG  GLU J  25     217.954 172.677  26.450  1.00168.97      JS10
ATOM  43282  CD  GLU J  25     216.522 173.043  26.108  1.00168.97      JS10
ATOM  43283  OE1 GLU J  25     216.076 174.146  26.494  1.00168.97      JS10
ATOM  43284  OE2 GLU J  25     215.841 172.225  25.454  1.00168.97      JS10
ATOM  43285  C   GLU J  25     219.783 172.368  29.860  1.00142.45      JS10
ATOM  43286  O   GLU J  25     219.959 173.404  30.502  1.00142.45      JS10
ATOM  43287  N   ALA J  26     219.707 171.167  30.427  1.00 96.76      JS10
ATOM  43288  CA  ALA J  26     219.832 170.991  31.871  1.00 96.76      JS10
ATOM  43289  CB  ALA J  26     219.388 169.587  32.268  1.00147.29      JS10
ATOM  43290  C   ALA J  26     221.281 171.228  32.291  1.00 96.76      JS10
ATOM  43291  O   ALA J  26     221.721 170.791  33.357  1.00 96.76      JS10
ATOM  43292  N   ALA J  27     222.016 171.925  31.434  1.00132.31      JS10
ATOM  43293  CA  ALA J  27     223.411 172.245  31.685  1.00132.31      JS10
ATOM  43294  CB  ALA J  27     224.266 170.979  31.605  1.00 43.27      JS10
ATOM  43295  C   ALA J  27     223.872 173.275  30.654  1.00132.31      JS10
ATOM  43296  O   ALA J  27     225.061 173.587  30.559  1.00132.31      JS10
ATOM  43297  N   ARG J  28     222.918 173.800  29.885  1.00143.90      JS10
ATOM  43298  CA  ARG J  28     223.210 174.803  28.866  1.00143.90      JS10
ATOM  43299  CB  ARG J  28     222.104 174.845  27.806  1.00198.66      JS10
ATOM  43300  CG  ARG J  28     222.462 174.144  26.501  1.00198.66      JS10
ATOM  43301  CD  ARG J  28     221.379 174.331  25.446  1.00198.66      JS10
ATOM  43302  NE  ARG J  28     221.732 173.704  24.174  1.00198.66      JS10
ATOM  43303  CZ  ARG J  28     222.773 174.058  23.425  1.00198.66      JS10
ATOM  43304  NH1 ARG J  28     223.573 175.041  23.815  1.00198.66      JS10
ATOM  43305  NH2 ARG J  28     223.017 173.427  22.285  1.00198.66      JS10
ATOM  43306  C   ARG J  28     223.353 176.180  29.496  1.00143.90      JS10
ATOM  43307  O   ARG J  28     224.322 176.891  29.233  1.00143.90      JS10
ATOM  43308  N   ARG J  29     222.384 176.555  30.325  1.00142.25      JS10
ATOM  43309  CA  ARG J  29     222.424 177.851  30.989  1.00142.25      JS10
ATOM  43310  CB  ARG J  29     221.020 178.287  31.422  1.00159.98      JS10
ATOM  43311  CG  ARG J  29     219.870 177.547  30.754  1.00159.98      JS10
ATOM  43312  CD  ARG J  29     219.480 176.293  31.531  1.00159.98      JS10
ATOM  43313  NE  ARG J  29     218.250 175.692  31.014  1.00159.98      JS10
ATOM  43314  CZ  ARG J  29     217.587 174.701  31.605  1.00159.98      JS10
ATOM  43315  NH1 ARG J  29     218.030 174.185  32.745  1.00159.98      JS10
ATOM  43316  NH2 ARG J  29     216.475 174.225  31.058  1.00159.98      JS10
ATOM  43317  C   ARG J  29     223.325 177.764  32.217  1.00142.25      JS10
ATOM  43318  O   ARG J  29     224.091 178.683  32.507  1.00142.25      JS10
ATOM  43319  N   SER J  30     223.230 176.644  32.928  1.00 97.56      JS10
ATOM  43320  CA  SER J  30     224.017 176.421  34.135  1.00 97.56      JS10
ATOM  43321  CB  SER J  30     223.564 175.137  34.821  1.00 90.65      JS10
ATOM  43322  OG  SER J  30     223.909 174.007  34.042  1.00 90.65      JS10
ATOM  43323  C   SER J  30     225.521 176.334  33.891  1.00 97.56      JS10
ATOM  43324  O   SER J  30     226.316 176.698  34.761  1.00 97.56      JS10
ATOM  43325  N   GLY J  31     225.909 175.842  32.716  1.00178.03      JS10
ATOM  43326  CA  GLY J  31     227.321 175.707  32.399  1.00178.03      JS10
ATOM  43327  C   GLY J  31     227.757 176.400  31.121  1.00178.03      JS10
ATOM  43328  O   GLY J  31     227.119 177.352  30.672  1.00178.03      JS10
ATOM  43329  N   ALA J  32     228.854 175.919  30.539  1.00176.75      JS10
ATOM  43330  CA  ALA J  32     229.396 176.483  29.305  1.00176.75      JS10
ATOM  43331  CB  ALA J  32     230.631 175.698  28.870  1.00139.86      JS10
ATOM  43332  C   ALA J  32     228.356 176.472  28.190  1.00176.75      JS10
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ATOM  43335  CA  GLN J  33     227.329 175.216  26.379  1.00189.44      JS10
ATOM  43336  CB  GLN J  33     227.670 176.185  25.241  1.00179.25      JS10
ATOM  43337  CG  GLN J  33     226.639 176.215  24.120  1.00179.25      JS10
ATOM  43338  CD  GLN J  33     226.996 177.195  23.022  1.00179.25      JS10
ATOM  43339  OE1 GLN J  33     228.075 177.119  22.435  1.00179.25      JS10
ATOM  43340  NE2 GLN J  33     226.087 178.120  22.735  1.00179.25      JS10
ATOM  43341  C   GLN J  33     227.322 173.783  25.858  1.00189.44      JS10
ATOM  43342  O   GLN J  33     226.808 173.509  24.771  1.00189.44      JS10
ATOM  43343  N   VAL J  34     227.896 172.869  26.637  1.00108.32      JS10
ATOM  43344  CA  VAL J  34     227.943 171.463  26.249  1.00108.32      JS10
ATOM  43345  CB  VAL J  34     226.523 170.934  25.931  1.00164.45      JS10
ATOM  43346  CG1 VAL J  34     226.540 169.422  25.796  1.00164.45      JS10
ATOM  43347  CG2 VAL J  34     225.550 171.371  27.011  1.00164.45      JS10
ATOM  43348  C   VAL J  34     228.806 171.291  25.001  1.00108.32      JS10
ATOM  43349  O   VAL J  34     229.290 172.269  24.430  1.00108.32      JS10
ATOM  43350  N   SER J  35     228.999 170.043  24.586  1.00102.40      JS10
ATOM  43351  CA  SER J  35     229.778 169.745  23.389  1.00102.40      JS10
ATOM  43352  CB  SER J  35     230.861 168.705  23.690  1.00168.95      JS10
ATOM  43353  OG  SER J  35     231.784 169.185  24.650  1.00168.95      JS10
ATOM  43354  C   SER J  35     228.844 169.210  22.304  1.00102.40      JS10
ATOM  43355  O   SER J  35     229.282 168.554  21.362  1.00102.40      JS10
ATOM  43356  N   GLY J  36     227.555 169.509  22.439  1.00150.69      JS10
ATOM  43357  CA  GLY J  36     226.587 169.034  21.471  1.00150.69      JS10
ATOM  43358  C   GLY J  36     226.532 167.525  21.557  1.00150.69      JS10
ATOM  43359  O   GLY J  36     227.551 166.865  21.369  1.00150.69      JS10
ATOM  43360  N   PRO J  37     225.361 166.940  21.837  1.00119.27      JS10
ATOM  43361  CD  PRO J  37     224.010 167.520  21.746  1.00130.99      JS10
ATOM  43362  CA  PRO J  37     225.297 165.479  21.928  1.00119.27      JS10
ATOM  43363  CB  PRO J  37     223.796 165.210  22.033  1.00130.99      JS10
ATOM  43364  CG  PRO J  37     223.195 166.349  21.262  1.00130.99      JS10
ATOM  43365  C   PRO J  37     225.939 164.816  20.712  1.00119.27      JS10
ATOM  43366  O   PRO J  37     225.565 165.106  19.573  1.00119.27      JS10
ATOM  43367  N   ILE J  38     226.915 163.942  20.947  1.00 84.31      JS10
ATOM  43368  CA  ILE J  38     227.577 163.270  19.834  1.00 84.31      JS10
ATOM  43369  CB  ILE J  38     229.098 163.320  19.961  1.00 72.50      JS10
ATOM  43370  CG2 ILE J  38     229.717 163.431  18.573  1.00 72.50      JS10
ATOM  43371  CG1 ILE J  38     229.507 164.527  20.801  1.00 72.50      JS10
ATOM  43372  CD1 ILE J  38     230.998 164.671  20.966  1.00 72.50      JS10
ATOM  43373  C   ILE J  38     227.137 161.814  19.698  1.00 84.31      JS10
ATOM  43374  O   ILE J  38     227.053 161.081  20.687  1.00 84.31      JS10
ATOM  43375  N   PRO J  39     226.866 161.376  18.453  1.00 99.11      JS10
ATOM  43376  CD  PRO J  39     226.986 162.192  17.226  1.00 55.38      JS10
ATOM  43377  CA  PRO J  39     226.419 160.020  18.122  1.00 99.11      JS10
ATOM  43378  CB  PRO J  39     226.057 160.140  16.649  1.00 55.38      JS10
ATOM  43379  CG  PRO J  39     227.039 161.150  16.152  1.00 55.38      JS10
ATOM  43380  C   PRO J  39     227.337 158.836  18.386  1.00 99.11      JS10
ATOM  43381  O   PRO J  39     227.003 157.964  19.184  1.00 99.11      JS10
ATOM  43382  N   LEU J  40     228.483 158.798  17.717  1.00 93.18      JS10
ATOM  43383  CA  LEU J  40     229.405 157.675  17.863  1.00 93.18      JS10
ATOM  43384  CB  LEU J  40     229.713 157.376  19.332  1.00 93.20      JS10
ATOM  43385  CG  LEU J  40     230.706 158.262  20.081  1.00 93.20      JS10
ATOM  43386  CD1 LEU J  40     231.121 157.544  21.358  1.00 93.20      JS10
ATOM  43387  CD2 LEU J  40     231.930 158.535  19.224  1.00 93.20      JS10
ATOM  43388  C   LEU J  40     228.763 156.443  17.242  1.00 93.18      JS10
ATOM  43389  O   LEU J  40     227.657 156.053  17.617  1.00 93.18      JS10
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ATOM  43391  CD  PRO J  41     230.892 155.906  15.992  1.00132.07      JS10
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ATOM  43395  C   PRO J  41     228.279 153.598  16.628  1.00 90.61      JS10
ATOM  43396  O   PRO J  41     228.760 153.408  17.749  1.00 90.61      JS10
ATOM  43397  N   THR J  42     227.212 152.955  16.165  1.00 80.36      JS10
ATOM  43398  CA  THR J  42     226.491 151.956  16.939  1.00 80.36      JS10
ATOM  43399  CB  THR J  42     225.017 151.942  16.533  1.00141.69      JS10
ATOM  43400  OG1 THR J  42     224.477 153.262  16.664  1.00141.69      JS10
ATOM  43401  CG2 THR J  42     224.235 150.976  17.404  1.00141.69      JS10
ATOM  43402  C   THR J  42     227.055 150.560  16.709  1.00 80.36      JS10
ATOM  43403  O   THR J  42     227.578 150.272  15.637  1.00 80.36      JS10
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ATOM  43406  CB  ARG J  43     228.372 147.954  18.735  1.00 86.25      JS10
ATOM  43407  CG  ARG J  43     229.806 148.415  18.516  1.00 86.25      JS10
ATOM  43408  CD  ARG J  43     230.781 147.450  19.172  1.00 86.25      JS10
ATOM  43409  NE  ARG J  43     232.151 147.951  19.187  1.00 86.25      JS10
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ATOM  43412  NH2 ARG J  43     234.395 147.812  19.693  1.00 86.25      JS10
ATOM  43413  C   ARG J  43     226.274 147.316  17.539  1.00 75.74      JS10
ATOM  43414  O   ARG J  43     225.752 146.872  18.565  1.00 75.74      JS10
ATOM  43415  N   VAL J  44     225.916 146.959  16.309  1.00 58.42      JS10
ATOM  43416  CA  VAL J  44     224.840 146.025  15.991  1.00 58.42      JS10
ATOM  43417  CB  VAL J  44     224.427 146.212  14.524  1.00 59.23      JS10
ATOM  43418  CG1 VAL J  44     223.340 145.231  14.161  1.00 59.23      JS10
ATOM  43419  CG2 VAL J  44     223.981 147.639  14.291  1.00 59.23      JS10
ATOM  43420  C   VAL J  44     225.175 144.542  16.192  1.00 58.42      JS10
ATOM  43421  O   VAL J  44     226.291 144.114  15.933  1.00 58.42      JS10
ATOM  43422  N   ARG J  45     224.200 143.768  16.651  1.00 68.94      JS10
ATOM  43423  CA  ARG J  45     224.389 142.332  16.835  1.00 68.94      JS10
ATOM  43424  CB  ARG J  45     224.107 141.910  18.272  1.00117.08      JS10
ATOM  43425  CG  ARG J  45     225.220 142.209  19.225  1.00117.08      JS10
ATOM  43426  CD  ARG J  45     225.386 141.064  20.193  1.00117.08      JS10
ATOM  43427  NE  ARG J  45     226.410 141.354  21.187  1.00117.08      JS10
ATOM  43428  CZ  ARG J  45     226.949 140.443  21.988  1.00117.08      JS10
ATOM  43429  NH1 ARG J  45     226.562 139.174  21.912  1.00117.08      JS10
ATOM  43430  NH2 ARG J  45     227.877 140.803  22.863  1.00117.08      JS10
ATOM  43431  C   ARG J  45     223.434 141.583  15.911  1.00 68.94      JS10
ATOM  43432  O   ARG J  45     222.331 142.060  15.638  1.00 68.94      JS10
ATOM  43433  N   ARG J  46     223.853 140.417  15.424  1.00 71.40      JS10
ATOM  43434  CA  ARG J  46     223.004 139.632  14.538  1.00 71.40      JS10
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ATOM  43436  CG  ARG J  46     223.836 140.946  12.474  1.00 73.02      JS10
ATOM  43437  CD  ARG J  46     222.577 141.705  12.128  1.00 73.02      JS10
ATOM  43438  NE  ARG J  46     222.804 142.563  10.967  1.00 73.02      JS10
ATOM  43439  CZ  ARG J  46     222.115 143.670  10.692  1.00 73.02      JS10
ATOM  43440  NH1 ARG J  46     221.141 144.077  11.501  1.00 73.02      JS10
ATOM  43441  NH2 ARG J  46     222.389 144.369   9.594  1.00 73.02      JS10
ATOM  43442  C   ARG J  46     222.836 138.199  15.025  1.00 71.40      JS10
ATOM  43443  O   ARG J  46     223.805 137.528  15.400  1.00 71.40      JS10
ATOM  43444  N   PHE J  47     221.586 137.748  15.017  1.00114.54      JS10
ATOM  43445  CA  PHE J  47     221.238 136.395  15.413  1.00114.54      JS10
ATOM  43446  CB  PHE J  47     220.279 136.405  16.602  1.00101.86      JS10
ATOM  43447  CG  PHE J  47     220.856 137.017  17.838  1.00101.86      JS10
ATOM  43448  CD1 PHE J  47     221.022 138.393  17.937  1.00101.86      JS10
ATOM  43449  CD2 PHE J  47     221.261 136.213  18.899  1.00101.86      JS10
ATOM  43450  CE1 PHE J  47     221.585 138.962  19.078  1.00101.86      JS10
ATOM  43451  CE2 PHE J  47     221.825 136.768  20.043  1.00101.86      JS10
ATOM  43452  CZ  PHE J  47     221.988 138.145  20.134  1.00101.86      JS10
ATOM  43453  C   PHE J  47     220.545 135.772  14.216  1.00114.54      JS10
ATOM  43454  O   PHE J  47     219.541 136.298  13.735  1.00114.54      JS10
ATOM  43455  N   THR J  48     221.083 134.668  13.717  1.00 72.00      JS10
ATOM  43456  CA  THR J  48     220.465 134.013  12.578  1.00 72.00      JS10
ATOM  43457  CB  THR J  48     221.441 133.877  11.405  1.00 81.04      JS10
ATOM  43458  OG1 THR J  48     221.853 135.178  10.973  1.00 81.04      JS10
ATOM  43459  CG2 THR J  48     220.773 133.169  10.250  1.00 81.04      JS10
ATOM  43460  C   THR J  48     220.005 132.637  13.004  1.00 72.00      JS10
ATOM  43461  O   THR J  48     220.824 131.784  13.342  1.00 72.00      JS10
ATOM  43462  N   VAL J  49     218.693 132.423  12.986  1.00 62.32      JS10
ATOM  43463  CA  VAL J  49     218.129 131.142  13.393  1.00 62.32      JS10
ATOM  43464  CB  VAL J  49     217.192 131.349  14.607  1.00 95.60      JS10
ATOM  43465  CG1 VAL J  49     216.624 130.028  15.069  1.00 95.60      JS10
ATOM  43466  CG2 VAL J  49     217.956 131.997  15.736  1.00 95.60      JS10
ATOM  43467  C   VAL J  49     217.359 130.446  12.258  1.00 62.32      JS10
ATOM  43468  O   VAL J  49     216.927 131.091  11.317  1.00 62.32      JS10
ATOM  43469  N   ILE J  50     217.213 129.127  12.341  1.00 60.11      JS10
ATOM  43470  CA  ILE J  50     216.463 128.376  11.338  1.00 60.11      JS10
ATOM  43471  CB  ILE J  50     216.805 126.888  11.399  1.00 67.11      JS10
ATOM  43472  CG2 ILE J  50     215.940 126.121  10.426  1.00 67.11      JS10
ATOM  43473  CG1 ILE J  50     218.283 126.683  11.091  1.00 67.11      JS10
ATOM  43474  CD1 ILE J  50     218.697 125.234  11.087  1.00 67.11      JS10
ATOM  43475  C   ILE J  50     214.983 128.529  11.685  1.00 60.11      JS10
ATOM  43476  O   ILE J  50     214.530 127.970  12.688  1.00 60.11      JS10
ATOM  43477  N   ARG J  51     214.238 129.261  10.851  1.00 62.54      JS10
ATOM  43478  CA  ARG J  51     212.814 129.540  11.075  1.00 62.54      JS10
ATOM  43479  CB  ARG J  51     212.138 129.922   9.774  1.00 39.07      JS10
ATOM  43480  CG  ARG J  51     212.020 131.414   9.597  1.00 39.07      JS10
ATOM  43481  CD  ARG J  51     211.973 131.771   8.130  1.00 39.07      JS10
ATOM  43482  NE  ARG J  51     212.088 133.201   7.842  1.00 39.07      JS10
ATOM  43483  CZ  ARG J  51     211.138 134.092   8.109  1.00 39.07      JS10
ATOM  43484  NH1 ARG J  51     210.000 133.706   8.688  1.00 39.07      JS10
ATOM  43485  NH2 ARG J  51     211.307 135.363   7.760  1.00 39.07      JS10
ATOM  43486  C   ARG J  51     211.967 128.493  11.768  1.00 62.54      JS10
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ATOM  43487  O   ARG J  51     211.263 128.791  12.741  1.00 62.54       JS10
ATOM  43488  N   GLY J  52     212.012 127.268  11.276  1.00 36.41       JS10
ATOM  43489  CA  GLY J  52     211.216 126.237  11.912  1.00 36.41       JS10
ATOM  43490  C   GLY J  52     212.096 125.315  12.710  1.00 36.41       JS10
ATOM  43491  O   GLY J  52     213.308 125.429  12.644  1.00 36.41       JS10
ATOM  43492  N   PRO J  53     211.519 124.403  13.490  1.00 60.39       JS10
ATOM  43493  CD  PRO J  53     210.083 124.263  13.796  1.00 36.29       JS10
ATOM  43494  CA  PRO J  53     212.323 123.471  14.283  1.00 60.39       JS10
ATOM  43495  CB  PRO J  53     211.391 123.105  15.407  1.00 36.29       JS10
ATOM  43496  CG  PRO J  53     210.059 123.015  14.674  1.00 36.29       JS10
ATOM  43497  C   PRO J  53     212.584 122.277  13.395  1.00 60.39       JS10
ATOM  43498  O   PRO J  53     211.904 122.105  12.379  1.00 60.39       JS10
ATOM  43499  N   PHE J  54     213.552 121.449  13.758  1.00 65.02       JS10
ATOM  43500  CA  PHE J  54     213.847 120.251  12.967  1.00 65.02       JS10
ATOM  43501  CB  PHE J  54     212.770 119.220  13.188  1.00 57.08       JS10
ATOM  43502  CG  PHE J  54     213.025 117.941  12.493  1.00 57.08       JS10
ATOM  43503  CD1 PHE J  54     213.856 116.984  13.065  1.00 57.08       JS10
ATOM  43504  CD2 PHE J  54     212.387 117.657  11.301  1.00 57.08       JS10
ATOM  43505  CE1 PHE J  54     214.041 115.748  12.467  1.00 57.08       JS10
ATOM  43506  CE2 PHE J  54     212.558 116.431  10.686  1.00 57.08       JS10
ATOM  43507  CZ  PHE J  54     213.387 115.467  11.272  1.00 57.08       JS10
ATOM  43508  C   PHE J  54     214.007 120.430  11.457  1.00 65.02       JS10
ATOM  43509  O   PHE J  54     213.050 120.744  10.743  1.00 65.02       JS10
ATOM  43510  N   LYS J  55     215.221 120.169  10.985  1.00 72.75       JS10
ATOM  43511  CA  LYS J  55     215.586 120.290   9.581  1.00 72.75       JS10
ATOM  43512  CB  LYS J  55     215.053 119.098   8.779  1.00 70.95       JS10
ATOM  43513  CG  LYS J  55     213.672 119.236   8.185  1.00 70.95       JS10
ATOM  43514  CD  LYS J  55     213.400 118.015   7.311  1.00 70.95       JS10
ATOM  43515  CE  LYS J  55     212.116 118.122   6.511  1.00 70.95       JS10
ATOM  43516  NZ  LYS J  55     212.000 116.958   5.582  1.00 70.95       JS10
ATOM  43517  C   LYS J  55     215.110 121.608   8.996  1.00 72.75       JS10
ATOM  43518  O   LYS J  55     214.777 122.526   9.731  1.00 72.75       JS10
ATOM  43519  N   HIS J  56     215.086 121.704   7.677  1.00 31.11       JS10
ATOM  43520  CA  HIS J  56     214.679 122.936   6.999  1.00 31.11       JS10
ATOM  43521  CB  HIS J  56     213.368 123.489   7.575  1.00 78.55       JS10
ATOM  43522  CG  HIS J  56     212.161 122.659   7.265  1.00 78.55       JS10
ATOM  43523  CD2 HIS J  56     211.358 121.922   8.069  1.00 78.55       JS10
ATOM  43524  ND1 HIS J  56     211.664 122.512   5.989  1.00 78.55       JS10
ATOM  43525  CE1 HIS J  56     210.610 121.717   6.019  1.00 78.55       JS10
ATOM  43526  NE2 HIS J  56     210.404 121.346   7.268  1.00 78.55       JS10
ATOM  43527  C   HIS J  56     215.772 123.983   7.174  1.00 31.11       JS10
ATOM  43528  O   HIS J  56     215.501 125.113   7.562  1.00 31.11       JS10
ATOM  43529  N   LYS J  57     217.007 123.617   6.856  1.00 48.10       JS10
ATOM  43530  CA  LYS J  57     218.125 124.535   7.033  1.00 48.10       JS10
ATOM  43531  CB  LYS J  57     219.456 123.760   7.000  1.00146.95       JS10
ATOM  43532  CG  LYS J  57     219.908 123.274   5.627  1.00146.95       JS10
ATOM  43533  CD  LYS J  57     220.723 124.340   4.891  1.00146.95       JS10
ATOM  43534  CE  LYS J  57     221.149 123.879   3.497  1.00146.95       JS10
ATOM  43535  NZ  LYS J  57     222.003 124.893   2.813  1.00146.95       JS10
ATOM  43536  C   LYS J  57     218.191 125.723   6.091  1.00 48.10       JS10
ATOM  43537  O   LYS J  57     219.027 126.591   6.281  1.00 48.10       JS10
ATOM  43538  N   ASP J  58     217.317 125.792   5.095  1.00 36.29       JS10
ATOM  43539  CA  ASP J  58     217.366 126.918   4.159  1.00 36.29       JS10
ATOM  43540  CB  ASP J  58     217.162 126.424   2.728  1.00135.36       JS10
ATOM  43541  CG  ASP J  58     218.413 125.814   2.142  1.00135.36       JS10
ATOM  43542  OD1 ASP J  58     219.421 126.539   2.013  1.00135.36       JS10
ATOM  43543  OD2 ASP J  58     218.393 124.611   1.811  1.00135.36       JS10
ATOM  43544  C   ASP J  58     216.388 128.058   4.431  1.00 36.29       JS10
ATOM  43545  O   ASP J  58     216.152 128.889   3.546  1.00 36.29       JS10
ATOM  43546  N   SER J  59     215.832 128.100   5.643  1.00 94.06       JS10
ATOM  43547  CA  SER J  59     214.868 129.135   6.041  1.00 94.06       JS10
ATOM  43548  CB  SER J  59     213.862 128.536   7.020  1.00109.76       JS10
ATOM  43549  OG  SER J  59     214.530 127.959   8.130  1.00109.76       JS10
ATOM  43550  C   SER J  59     215.552 130.359   6.676  1.00 94.06       JS10
ATOM  43551  O   SER J  59     215.794 131.351   5.997  1.00 94.06       JS10
ATOM  43552  N   ARG J  60     215.817 130.298   7.982  1.00 82.13       JS10
ATOM  43553  CA  ARG J  60     216.523 131.358   8.719  1.00 82.13       JS10
ATOM  43554  CB  ARG J  60     217.763 131.808   7.911  1.00 52.61       JS10
ATOM  43555  CG  ARG J  60     219.061 130.999   8.206  1.00 52.61       JS10
ATOM  43556  CD  ARG J  60     218.768 129.514   8.273  1.00 52.61       JS10
ATOM  43557  NE  ARG J  60     219.876 128.657   8.695  1.00 52.61       JS10
ATOM  43558  CZ  ARG J  60     221.003 128.482   8.017  1.00 52.61       JS10
ATOM  43559  NH1 ARG J  60     221.204 129.121   6.879  1.00 52.61       JS10
ATOM  43560  NH2 ARG J  60     221.898 127.603   8.439  1.00 52.61       JS10
ATOM  43561  C   ARG J  60     215.868 132.605   9.344  1.00 82.13       JS10
ATOM  43562  O   ARG J  60     215.623 132.616  10.545  1.00 82.13       JS10
ATOM  43563  N   GLU J  61     215.591 133.653   8.572  1.00 57.98       JS10
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ATOM  43564  CA  GLU J  61     215.057 134.908   9.156  1.00 57.98      JS10
ATOM  43565  CB  GLU J  61     213.759 134.694   9.937  1.00 60.00      JS10
ATOM  43566  CG  GLU J  61     213.411 135.916  10.813  1.00 60.00      JS10
ATOM  43567  CD  GLU J  61     212.141 135.747  11.634  1.00 60.00      JS10
ATOM  43568  OE1 GLU J  61     212.035 134.738  12.369  1.00 60.00      JS10
ATOM  43569  OE2 GLU J  61     211.257 136.635  11.553  1.00 60.00      JS10
ATOM  43570  C   GLU J  61     216.086 135.553  10.123  1.00 57.98      JS10
ATOM  43571  O   GLU J  61     216.702 134.870  10.952  1.00 57.98      JS10
ATOM  43572  N   HIS J  62     216.228 136.873  10.051  1.00 98.35      JS10
ATOM  43573  CA  HIS J  62     217.217 137.567  10.874  1.00 98.35      JS10
ATOM  43574  CB  HIS J  62     218.140 138.352   9.946  1.00 77.31      JS10
ATOM  43575  CG  HIS J  62     219.132 137.498   9.222  1.00 77.31      JS10
ATOM  43576  CD2 HIS J  62     219.629 136.272   9.512  1.00 77.31      JS10
ATOM  43577  ND1 HIS J  62     219.767 137.908   8.070  1.00 77.31      JS10
ATOM  43578  CE1 HIS J  62     220.614 136.971   7.682  1.00 77.31      JS10
ATOM  43579  NE2 HIS J  62     220.549 135.968   8.541  1.00 77.31      JS10
ATOM  43580  C   HIS J  62     216.769 138.479  12.023  1.00 98.35      JS10
ATOM  43581  O   HIS J  62     215.714 139.110  11.961  1.00 98.35      JS10
ATOM  43582  N   PHE J  63     217.614 138.552  13.057  1.00 83.80      JS10
ATOM  43583  CA  PHE J  63     217.379 139.370  14.256  1.00 83.80      JS10
ATOM  43584  CB  PHE J  63     216.957 138.484  15.431  1.00 64.07      JS10
ATOM  43585  CG  PHE J  63     215.653 137.787  15.228  1.00 64.07      JS10
ATOM  43586  CD1 PHE J  63     215.475 136.482  15.684  1.00 64.07      JS10
ATOM  43587  CD2 PHE J  63     214.594 138.430  14.586  1.00 64.07      JS10
ATOM  43588  CE1 PHE J  63     214.262 135.821  15.502  1.00 64.07      JS10
ATOM  43589  CE2 PHE J  63     213.380 137.781  14.400  1.00 64.07      JS10
ATOM  43590  CZ  PHE J  63     213.214 136.471  14.860  1.00 64.07      JS10
ATOM  43591  C   PHE J  63     218.634 140.143  14.674  1.00 83.80      JS10
ATOM  43592  O   PHE J  63     219.712 139.565  14.820  1.00 83.80      JS10
ATOM  43593  N   GLU J  64     218.484 141.444  14.892  1.00 79.96      JS10
ATOM  43594  CA  GLU J  64     219.605 142.282  15.300  1.00 79.96      JS10
ATOM  43595  CB  GLU J  64     220.052 143.159  14.128  1.00 96.49      JS10
ATOM  43596  CG  GLU J  64     218.936 143.971  13.484  1.00 96.49      JS10
ATOM  43597  CD  GLU J  64     219.074 145.473  13.701  1.00 96.49      JS10
ATOM  43598  OE1 GLU J  64     218.889 145.934  14.851  1.00 96.49      JS10
ATOM  43599  OE2 GLU J  64     219.368 146.191  12.715  1.00 96.49      JS10
ATOM  43600  C   GLU J  64     219.285 143.165  16.507  1.00 79.96      JS10
ATOM  43601  O   GLU J  64     218.283 143.878  16.516  1.00 79.96      JS10
ATOM  43602  N   LEU J  65     220.148 143.113  17.521  1.00 84.48      JS10
ATOM  43603  CA  LEU J  65     219.990 143.909  18.745  1.00 84.48      JS10
ATOM  43604  CB  LEU J  65     220.120 142.995  19.971  1.00 63.72      JS10
ATOM  43605  CG  LEU J  65     220.341 143.573  21.370  1.00 63.72      JS10
ATOM  43606  CD1 LEU J  65     219.505 142.824  22.384  1.00 63.72      JS10
ATOM  43607  CD2 LEU J  65     221.803 143.450  21.727  1.00 63.72      JS10
ATOM  43608  C   LEU J  65     221.035 145.024  18.803  1.00 84.48      JS10
ATOM  43609  O   LEU J  65     222.096 144.865  19.398  1.00 84.48      JS10
ATOM  43610  N   ARG J  66     220.733 146.159  18.187  1.00 65.52      JS10
ATOM  43611  CA  ARG J  66     221.683 147.256  18.164  1.00 65.52      JS10
ATOM  43612  CB  ARG J  66     221.426 148.130  16.948  1.00 68.16      JS10
ATOM  43613  CG  ARG J  66     219.974 148.364  16.657  1.00 68.16      JS10
ATOM  43614  CD  ARG J  66     219.863 149.150  15.379  1.00 68.16      JS10
ATOM  43615  NE  ARG J  66     220.767 148.602  14.375  1.00 68.16      JS10
ATOM  43616  CZ  ARG J  66     220.925 149.100  13.155  1.00 68.16      JS10
ATOM  43617  NH1 ARG J  66     220.233 150.167  12.778  1.00 68.16      JS10
ATOM  43618  NH2 ARG J  66     221.780 148.535  12.315  1.00 68.16      JS10
ATOM  43619  C   ARG J  66     221.762 148.129  19.413  1.00 65.52      JS10
ATOM  43620  O   ARG J  66     220.749 148.552  19.969  1.00 65.52      JS10
ATOM  43621  N   THR J  67     222.999 148.397  19.827  1.00 63.47      JS10
ATOM  43622  CA  THR J  67     223.312 149.213  20.999  1.00 63.47      JS10
ATOM  43623  CB  THR J  67     224.418 148.542  21.849  1.00 77.46      JS10
ATOM  43624  OG1 THR J  67     224.023 147.210  22.210  1.00 77.46      JS10
ATOM  43625  CG2 THR J  67     224.678 149.347  23.100  1.00 77.46      JS10
ATOM  43626  C   THR J  67     223.822 150.590  20.564  1.00 63.47      JS10
ATOM  43627  O   THR J  67     225.015 150.764  20.336  1.00 63.47      JS10
ATOM  43628  N   HIS J  68     222.922 151.561  20.447  1.00 98.49      JS10
ATOM  43629  CA  HIS J  68     223.306 152.911  20.035  1.00 98.49      JS10
ATOM  43630  CB  HIS J  68     222.057 153.789  19.924  1.00105.65      JS10
ATOM  43631  CG  HIS J  68     221.070 153.314  18.901  1.00105.65      JS10
ATOM  43632  CD2 HIS J  68     219.923 152.604  19.032  1.00105.65      JS10
ATOM  43633  ND1 HIS J  68     221.225 153.545  17.550  1.00105.65      JS10
ATOM  43634  CE1 HIS J  68     220.217 152.999  16.894  1.00105.65      JS10
ATOM  43635  NE2 HIS J  68     219.413 152.422  17.770  1.00105.65      JS10
ATOM  43636  C   HIS J  68     224.305 153.541  21.016  1.00 98.49      JS10
ATOM  43637  O   HIS J  68     224.548 152.997  22.098  1.00 98.49      JS10
ATOM  43638  N   ASN J  69     224.886 154.679  20.631  1.00 98.75      JS10
ATOM  43639  CA  ASN J  69     225.855 155.387  21.472  1.00 98.75      JS10
ATOM  43640  CB  ASN J  69     227.288 155.112  21.007  1.00105.17      JS10
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ATOM  43641  CG  ASN J  69     227.757 153.709  21.343  1.00105.17      JS10
ATOM  43642  OD1 ASN J  69     227.710 153.285  22.499  1.00105.17      JS10
ATOM  43643  ND2 ASN J  69     228.222 152.982  20.332  1.00105.17      JS10
ATOM  43644  C   ASN J  69     225.614 156.891  21.453  1.00 98.75      JS10
ATOM  43645  O   ASN J  69     225.003 157.412  20.521  1.00 98.75      JS10
ATOM  43646  N   ARG J  70     226.100 157.575  22.490  1.00141.16      JS10
ATOM  43647  CA  ARG J  70     225.963 159.028  22.632  1.00141.16      JS10
ATOM  43648  CB  ARG J  70     224.666 159.368  23.362  1.00131.71      JS10
ATOM  43649  CG  ARG J  70     223.435 159.060  22.544  1.00131.71      JS10
ATOM  43650  CD  ARG J  70     223.401 159.919  21.298  1.00131.71      JS10
ATOM  43651  NE  ARG J  70     222.559 159.334  20.262  1.00131.71      JS10
ATOM  43652  CZ  ARG J  70     222.274 159.931  19.110  1.00131.71      JS10
ATOM  43653  NH1 ARG J  70     222.763 161.137  18.851  1.00131.71      JS10
ATOM  43654  NH2 ARG J  70     221.510 159.319  18.214  1.00131.71      JS10
ATOM  43655  C   ARG J  70     227.152 159.633  23.379  1.00141.16      JS10
ATOM  43656  O   ARG J  70     227.849 158.935  24.117  1.00141.16      JS10
ATOM  43657  N   LEU J  71     227.369 160.935  23.206  1.00 97.69      JS10
ATOM  43658  CA  LEU J  71     228.508 161.587  23.844  1.00 97.69      JS10
ATOM  43659  CB  LEU J  71     229.540 161.934  22.770  1.00 71.50      JS10
ATOM  43660  CG  LEU J  71     231.017 161.985  23.162  1.00 71.50      JS10
ATOM  43661  CD1 LEU J  71     231.321 163.289  23.850  1.00 71.50      JS10
ATOM  43662  CD2 LEU J  71     231.353 160.796  24.056  1.00 71.50      JS10
ATOM  43663  C   LEU J  71     228.203 162.822  24.693  1.00 97.69      JS10
ATOM  43664  O   LEU J  71     228.479 162.829  25.889  1.00 97.69      JS10
ATOM  43665  N   VAL J  72     227.652 163.867  24.082  1.00162.00      JS10
ATOM  43666  CA  VAL J  72     227.336 165.099  24.812  1.00162.00      JS10
ATOM  43667  CB  VAL J  72     226.408 164.817  26.014  1.00158.48      JS10
ATOM  43668  CG1 VAL J  72     225.987 166.125  26.660  1.00158.48      JS10
ATOM  43669  CG2 VAL J  72     225.189 164.030  25.557  1.00158.48      JS10
ATOM  43670  C   VAL J  72     228.623 165.758  25.319  1.00162.00      JS10
ATOM  43671  O   VAL J  72     229.213 166.583  24.623  1.00162.00      JS10
ATOM  43672  N   ASP J  73     229.042 165.408  26.534  1.00107.45      JS10
ATOM  43673  CA  ASP J  73     230.284 165.934  27.114  1.00107.45      JS10
ATOM  43674  CB  ASP J  73     231.450 165.557  26.195  1.00192.24      JS10
ATOM  43675  CG  ASP J  73     232.800 165.845  26.807  1.00192.24      JS10
ATOM  43676  OD1 ASP J  73     233.059 165.356  27.926  1.00192.24      JS10
ATOM  43677  OD2 ASP J  73     233.605 166.549  26.160  1.00192.24      JS10
ATOM  43678  C   ASP J  73     230.299 167.448  27.381  1.00107.45      JS10
ATOM  43679  O   ASP J  73     230.498 168.243  26.465  1.00107.45      JS10
ATOM  43680  N   ILE J  74     230.110 167.834  28.643  1.00132.18      JS10
ATOM  43681  CA  ILE J  74     230.095 169.247  29.037  1.00132.18      JS10
ATOM  43682  CB  ILE J  74     228.872 169.582  29.916  1.00102.86      JS10
ATOM  43683  CG2 ILE J  74     227.664 169.827  29.052  1.00102.86      JS10
ATOM  43684  CG1 ILE J  74     228.638 168.460  30.930  1.00102.86      JS10
ATOM  43685  CD1 ILE J  74     227.506 168.727  31.904  1.00102.86      JS10
ATOM  43686  C   ILE J  74     231.323 169.688  29.823  1.00132.18      JS10
ATOM  43687  O   ILE J  74     231.763 169.005  30.745  1.00132.18      JS10
ATOM  43688  N   ILE J  75     231.865 170.845  29.459  1.00200.96      JS10
ATOM  43689  CA  ILE J  75     233.024 171.391  30.152  1.00200.96      JS10
ATOM  43690  CB  ILE J  75     234.139 171.811  29.166  1.00138.83      JS10
ATOM  43691  CG2 ILE J  75     235.289 172.460  29.924  1.00138.83      JS10
ATOM  43692  CG1 ILE J  75     234.646 170.587  28.399  1.00138.83      JS10
ATOM  43693  CD1 ILE J  75     235.743 170.896  27.395  1.00138.83      JS10
ATOM  43694  C   ILE J  75     232.575 172.610  30.950  1.00200.96      JS10
ATOM  43695  O   ILE J  75     231.670 173.335  30.530  1.00200.96      JS10
ATOM  43696  N   ASN J  76     233.209 172.818  32.101  1.00126.59      JS10
ATOM  43697  CA  ASN J  76     232.902 173.930  32.995  1.00126.59      JS10
ATOM  43698  CB  ASN J  76     232.518 175.186  32.203  1.00164.41      JS10
ATOM  43699  CG  ASN J  76     233.624 175.654  31.282  1.00164.41      JS10
ATOM  43700  OD1 ASN J  76     234.734 175.956  31.726  1.00164.41      JS10
ATOM  43701  ND2 ASN J  76     233.330 175.716  29.989  1.00164.41      JS10
ATOM  43702  C   ASN J  76     231.787 173.584  33.974  1.00126.59      JS10
ATOM  43703  O   ASN J  76     230.701 174.165  33.928  1.00126.59      JS10
ATOM  43704  N   PRO J  77     232.038 172.612  34.866  1.00161.02      JS10
ATOM  43705  CD  PRO J  77     233.260 171.793  34.954  1.00109.42      JS10
ATOM  43706  CA  PRO J  77     231.053 172.193  35.868  1.00161.02      JS10
ATOM  43707  CB  PRO J  77     231.674 170.924  36.447  1.00109.42      JS10
ATOM  43708  CG  PRO J  77     233.142 171.191  36.332  1.00109.42      JS10
ATOM  43709  C   PRO J  77     230.925 173.313  36.897  1.00161.02      JS10
ATOM  43710  O   PRO J  77     231.788 173.480  37.760  1.00161.02      JS10
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ATOM  43712  CA  ASN J  78     229.638 175.213  37.687  1.00143.28      JS10
ATOM  43713  CB  ASN J  78     229.249 176.428  36.849  1.00169.59      JS10
ATOM  43714  CG  ASN J  78     230.014 176.496  35.545  1.00169.59      JS10
ATOM  43715  OD1 ASN J  78     231.242 176.582  35.535  1.00169.59      JS10
ATOM  43716  ND2 ASN J  78     229.292 176.449  34.433  1.00169.59      JS10
ATOM  43717  C   ASN J  78     228.605 175.014  38.785  1.00143.28      JS10
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ATOM  43720  CA  ARG J  79     227.828 173.683  40.674  1.00183.86      JS10
ATOM  43721  CB  ARG J  79     227.985 174.732  41.782  1.00194.37      JS10
ATOM  43722  CG  ARG J  79     229.172 174.506  42.717  1.00194.37      JS10
ATOM  43723  CD  ARG J  79     228.881 173.388  43.711  1.00194.37      JS10
ATOM  43724  NE  ARG J  79     229.978 173.158  44.648  1.00194.37      JS10
ATOM  43725  CZ  ARG J  79     231.188 172.741  44.295  1.00194.37      JS10
ATOM  43726  NH1 ARG J  79     231.464 172.506  43.019  1.00194.37      JS10
ATOM  43727  NH2 ARG J  79     232.120 172.549  45.219  1.00194.37      JS10
ATOM  43728  C   ARG J  79     226.385 173.670  40.175  1.00183.86      JS10
ATOM  43729  O   ARG J  79     225.758 172.614  40.096  1.00183.86      JS10
ATOM  43730  N   LYS J  80     225.861 174.850  39.852  1.00186.60      JS10
ATOM  43731  CA  LYS J  80     224.502 174.980  39.344  1.00186.60      JS10
ATOM  43732  CB  LYS J  80     224.214 176.435  38.961  1.00184.54      JS10
ATOM  43733  CG  LYS J  80     222.817 176.672  38.396  1.00184.54      JS10
ATOM  43734  CD  LYS J  80     221.723 176.191  39.346  1.00184.54      JS10
ATOM  43735  CE  LYS J  80     221.743 176.944  40.669  1.00184.54      JS10
ATOM  43736  NZ  LYS J  80     220.665 176.481  41.592  1.00184.54      JS10
ATOM  43737  C   LYS J  80     224.334 174.073  38.130  1.00186.60      JS10
ATOM  43738  O   LYS J  80     223.234 173.601  37.844  1.00186.60      JS10
ATOM  43739  N   THR J  81     225.427 173.837  37.410  1.00135.73      JS10
ATOM  43740  CA  THR J  81     225.375 172.956  36.252  1.00135.73      JS10
ATOM  43741  CB  THR J  81     226.690 172.968  35.456  1.00103.40      JS10
ATOM  43742  OG1 THR J  81     227.006 174.310  35.072  1.00103.40      JS10
ATOM  43743  CG2 THR J  81     226.557 172.112  34.206  1.00103.40      JS10
ATOM  43744  C   THR J  81     225.152 171.560  36.804  1.00135.73      JS10
ATOM  43745  O   THR J  81     224.160 170.907  36.481  1.00135.73      JS10
ATOM  43746  N   ILE J  82     226.078 171.118  37.653  1.00 84.11      JS10
ATOM  43747  CA  ILE J  82     225.986 169.806  38.280  1.00 84.11      JS10
ATOM  43748  CB  ILE J  82     227.136 169.583  39.286  1.00126.65      JS10
ATOM  43749  CG2 ILE J  82     227.105 168.147  39.803  1.00126.65      JS10
ATOM  43750  CG1 ILE J  82     228.481 169.882  38.619  1.00126.65      JS10
ATOM  43751  CD1 ILE J  82     229.673 169.802  39.565  1.00126.65      JS10
ATOM  43752  C   ILE J  82     224.657 169.731  39.033  1.00 84.11      JS10
ATOM  43753  O   ILE J  82     224.226 168.658  39.460  1.00 84.11      JS10
ATOM  43754  N   GLU J  83     224.020 170.891  39.188  1.00158.03      JS10
ATOM  43755  CA  GLU J  83     222.739 171.009  39.879  1.00158.03      JS10
ATOM  43756  CB  GLU J  83     222.591 172.412  40.478  1.00184.74      JS10
ATOM  43757  CG  GLU J  83     222.319 172.446  41.972  1.00184.74      JS10
ATOM  43758  CD  GLU J  83     223.542 172.099  42.796  1.00184.74      JS10
ATOM  43759  OE1 GLU J  83     224.069 170.978  42.642  1.00184.74      JS10
ATOM  43760  OE2 GLU J  83     223.977 172.953  43.599  1.00184.74      JS10
ATOM  43761  C   GLU J  83     221.592 170.758  38.906  1.00158.03      JS10
ATOM  43762  O   GLU J  83     220.821 169.812  39.073  1.00158.03      JS10
ATOM  43763  N   GLN J  84     221.478 171.622  37.899  1.00193.86      JS10
ATOM  43764  CA  GLN J  84     220.429 171.489  36.894  1.00193.86      JS10
ATOM  43765  CB  GLN J  84     220.702 172.421  35.708  1.00178.39      JS10
ATOM  43766  CG  GLN J  84     220.055 173.797  35.849  1.00178.39      JS10
ATOM  43767  CD  GLN J  84     220.467 174.769  34.753  1.00178.39      JS10
ATOM  43768  OE1 GLN J  84     220.481 174.424  33.572  1.00178.39      JS10
ATOM  43769  NE2 GLN J  84     220.794 175.998  35.145  1.00178.39      JS10
ATOM  43770  C   GLN J  84     220.370 170.042  36.436  1.00193.86      JS10
ATOM  43771  O   GLN J  84     219.291 169.497  36.210  1.00193.86      JS10
ATOM  43772  N   LEU J  85     221.539 169.423  36.301  1.00147.55      JS10
ATOM  43773  CA  LEU J  85     221.610 168.022  35.910  1.00147.55      JS10
ATOM  43774  CB  LEU J  85     223.025 167.659  35.439  1.00139.00      JS10
ATOM  43775  CG  LEU J  85     223.619 168.390  34.229  1.00139.00      JS10
ATOM  43776  CD1 LEU J  85     225.054 167.927  34.005  1.00139.00      JS10
ATOM  43777  CD2 LEU J  85     222.773 168.118  32.996  1.00139.00      JS10
ATOM  43778  C   LEU J  85     221.275 167.241  37.177  1.00147.55      JS10
ATOM  43779  O   LEU J  85     220.143 166.796  37.369  1.00147.55      JS10
ATOM  43780  N   MET J  86     222.277 167.107  38.041  1.00186.01      JS10
ATOM  43781  CA  MET J  86     222.158 166.410  39.317  1.00186.01      JS10
ATOM  43782  CB  MET J  86     221.626 167.369  40.385  1.00200.96      JS10
ATOM  43783  CG  MET J  86     221.935 166.934  41.804  1.00200.96      JS10
ATOM  43784  SD  MET J  86     223.716 166.870  42.104  1.00200.96      JS10
ATOM  43785  CE  MET J  86     224.086 165.158  41.681  1.00200.96      JS10
ATOM  43786  C   MET J  86     221.279 165.165  39.270  1.00186.01      JS10
ATOM  43787  O   MET J  86     221.780 164.048  39.129  1.00186.01      JS10
ATOM  43788  N   THR J  87     219.969 165.360  39.402  1.00200.96      JS10
ATOM  43789  CA  THR J  87     219.023 164.249  39.376  1.00200.96      JS10
ATOM  43790  CB  THR J  87     218.900 163.591  40.778  1.00175.72      JS10
ATOM  43791  OG1 THR J  87     220.183 163.102  41.192  1.00175.72      JS10
ATOM  43792  CG2 THR J  87     217.909 162.431  40.745  1.00175.72      JS10
ATOM  43793  C   THR J  87     217.633 164.685  38.903  1.00200.96      JS10
ATOM  43794  O   THR J  87     216.746 164.963  39.712  1.00200.96      JS10
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ATOM  43796  CA  LEU J  88     216.181 165.126  36.984  1.00200.96      JS10
ATOM  43797  CB  LEU J  88     216.245 166.567  36.460  1.00164.42      JS10
ATOM  43798  CG  LEU J  88     216.726 167.672  37.410  1.00164.42      JS10
ATOM  43799  CD1 LEU J  88     216.540 169.022  36.730  1.00164.42      JS10
ATOM  43800  CD2 LEU J  88     215.948 167.630  38.719  1.00164.42      JS10
ATOM  43801  C   LEU J  88     215.885 164.166  35.831  1.00200.96      JS10
ATOM  43802  O   LEU J  88     215.107 164.472  34.926  1.00200.96      JS10
ATOM  43803  N   ASP J  89     216.522 162.999  35.889  1.00200.96      JS10
ATOM  43804  CA  ASP J  89     216.391 161.948  34.881  1.00200.96      JS10
ATOM  43805  CB  ASP J  89     217.174 160.717  35.339  1.00200.96      JS10
ATOM  43806  CG  ASP J  89     218.482 161.082  36.026  1.00200.96      JS10
ATOM  43807  OD1 ASP J  89     219.310 161.784  35.408  1.00200.96      JS10
ATOM  43808  OD2 ASP J  89     218.681 160.668  37.188  1.00200.96      JS10
ATOM  43809  C   ASP J  89     214.934 161.567  34.621  1.00200.96      JS10
ATOM  43810  O   ASP J  89     214.056 161.878  35.427  1.00200.96      JS10
ATOM  43811  N   LEU J  90     214.681 160.888  33.501  1.00200.96      JS10
ATOM  43812  CA  LEU J  90     213.318 160.485  33.153  1.00200.96      JS10
ATOM  43813  CB  LEU J  90     212.633 161.607  32.354  1.00137.51      JS10
ATOM  43814  CG  LEU J  90     212.543 162.993  33.008  1.00137.51      JS10
ATOM  43815  CD1 LEU J  90     211.981 163.993  32.010  1.00137.51      JS10
ATOM  43816  CD2 LEU J  90     211.668 162.931  34.249  1.00137.51      JS10
ATOM  43817  C   LEU J  90     213.165 159.150  32.398  1.00200.96      JS10
ATOM  43818  O   LEU J  90     212.480 158.245  32.877  1.00200.96      JS10
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ATOM  43820  CD  PRO J  91     214.776 159.933  30.616  1.00 84.02      JS10
ATOM  43821  CA  PRO J  91     213.707 157.773  30.419  1.00129.17      JS10
ATOM  43822  CB  PRO J  91     214.530 158.107  29.182  1.00 84.02      JS10
ATOM  43823  CG  PRO J  91     215.573 159.018  29.725  1.00 84.02      JS10
ATOM  43824  C   PRO J  91     214.171 156.484  31.109  1.00129.17      JS10
ATOM  43825  O   PRO J  91     215.108 156.496  31.913  1.00129.17      JS10
ATOM  43826  N   THR J  92     213.512 155.375  30.766  1.00 96.83      JS10
ATOM  43827  CA  THR J  92     213.795 154.060  31.358  1.00 96.83      JS10
ATOM  43828  CB  THR J  92     212.482 153.289  31.641  1.00167.21      JS10
ATOM  43829  OG1 THR J  92     211.633 154.075  32.486  1.00167.21      JS10
ATOM  43830  CG2 THR J  92     212.780 151.957  32.322  1.00167.21      JS10
ATOM  43831  C   THR J  92     214.689 153.136  30.534  1.00 96.83      JS10
ATOM  43832  O   THR J  92     215.360 152.258  31.084  1.00 96.83      JS10
ATOM  43833  N   GLY J  93     214.679 153.321  29.219  1.00177.96      JS10
ATOM  43834  CA  GLY J  93     215.491 152.485  28.354  1.00177.96      JS10
ATOM  43835  C   GLY J  93     216.875 153.052  28.110  1.00177.96      JS10
ATOM  43836  O   GLY J  93     217.316 153.154  26.962  1.00177.96      JS10
ATOM  43837  N   VAL J  94     217.563 153.422  29.189  1.00113.35      JS10
ATOM  43838  CA  VAL J  94     218.907 153.984  29.085  1.00113.35      JS10
ATOM  43839  CB  VAL J  94     218.887 155.527  28.951  1.00 36.22      JS10
ATOM  43840  CG1 VAL J  94     220.308 156.036  28.743  1.00 36.22      JS10
ATOM  43841  CG2 VAL J  94     217.969 155.967  27.792  1.00 36.22      JS10
ATOM  43842  C   VAL J  94     219.810 153.667  30.274  1.00113.35      JS10
ATOM  43843  O   VAL J  94     219.351 153.351  31.373  1.00113.35      JS10
ATOM  43844  N   GLU J  95     221.108 153.759  30.016  1.00 74.33      JS10
ATOM  43845  CA  GLU J  95     222.148 153.548  31.007  1.00 74.33      JS10
ATOM  43846  CB  GLU J  95     222.766 152.154  30.882  1.00115.25      JS10
ATOM  43847  CG  GLU J  95     223.661 151.782  32.061  1.00115.25      JS10
ATOM  43848  CD  GLU J  95     224.495 150.533  31.813  1.00115.25      JS10
ATOM  43849  OE1 GLU J  95     225.374 150.570  30.922  1.00115.25      JS10
ATOM  43850  OE2 GLU J  95     224.273 149.516  32.510  1.00115.25      JS10
ATOM  43851  C   GLU J  95     223.171 154.605  30.619  1.00 74.33      JS10
ATOM  43852  O   GLU J  95     223.473 154.769  29.433  1.00 74.33      JS10
ATOM  43853  N   ILE J  96     223.685 155.337  31.604  1.00150.68      JS10
ATOM  43854  CA  ILE J  96     224.661 156.385  31.323  1.00150.68      JS10
ATOM  43855  CB  ILE J  96     224.074 157.788  31.594  1.00127.61      JS10
ATOM  43856  CG2 ILE J  96     225.154 158.854  31.423  1.00127.61      JS10
ATOM  43857  CG1 ILE J  96     222.914 158.053  30.631  1.00127.61      JS10
ATOM  43858  CD1 ILE J  96     222.301 159.432  30.766  1.00127.61      JS10
ATOM  43859  C   ILE J  96     225.962 156.259  32.100  1.00150.68      JS10
ATOM  43860  O   ILE J  96     225.981 155.810  33.248  1.00150.68      JS10
ATOM  43861  N   GLU J  97     227.046 156.659  31.441  1.00152.53      JS10
ATOM  43862  CA  GLU J  97     228.380 156.641  32.023  1.00152.53      JS10
ATOM  43863  CB  GLU J  97     229.325 155.776  31.187  1.00200.96      JS10
ATOM  43864  CG  GLU J  97     229.152 154.291  31.425  1.00200.96      JS10
ATOM  43865  CD  GLU J  97     229.369 153.916  32.878  1.00200.96      JS10
ATOM  43866  OE1 GLU J  97     230.486 154.146  33.387  1.00200.96      JS10
ATOM  43867  OE2 GLU J  97     228.425 153.397  33.513  1.00200.96      JS10
ATOM  43868  C   GLU J  97     228.896 158.069  32.074  1.00152.53      JS10
ATOM  43869  O   GLU J  97     228.799 158.811  31.095  1.00152.53      JS10
ATOM  43870  N   ILE J  98     229.435 158.454  33.224  1.00159.79      JS10
ATOM  43871  CA  ILE J  98     229.953 159.799  33.398  1.00159.79      JS10
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ATOM  43872  CB  ILE J  98     229.033 160.642  34.305  1.00157.65      JS10
ATOM  43873  CG2 ILE J  98     229.589 162.053  34.436  1.00157.65      JS10
ATOM  43874  CG1 ILE J  98     227.620 160.684  33.723  1.00157.65      JS10
ATOM  43875  CD1 ILE J  98     226.631 161.452  34.576  1.00157.65      JS10
ATOM  43876  C   ILE J  98     231.336 159.785  34.021  1.00159.79      JS10
ATOM  43877  O   ILE J  98     231.562 159.136  35.043  1.00159.79      JS10
ATOM  43878  N   LYS J  99     232.259 160.502  33.391  1.00177.02      JS10
ATOM  43879  CA  LYS J  99     233.621 160.612  33.889  1.00177.02      JS10
ATOM  43880  CB  LYS J  99     234.511 159.503  33.321  1.00171.46      JS10
ATOM  43881  CG  LYS J  99     235.891 159.441  33.975  1.00171.46      JS10
ATOM  43882  CD  LYS J  99     236.735 158.299  33.429  1.00171.46      JS10
ATOM  43883  CE  LYS J  99     238.093 158.245  34.113  1.00171.46      JS10
ATOM  43884  NZ  LYS J  99     238.928 157.130  33.591  1.00171.46      JS10
ATOM  43885  C   LYS J  99     234.167 161.977  33.492  1.00177.02      JS10
ATOM  43886  O   LYS J  99     234.694 162.158  32.394  1.00177.02      JS10
ATOM  43887  N   ALA J 100     234.018 162.938  34.398  1.00190.15      JS10
ATOM  43888  CA  ALA J 100     234.482 164.299  34.176  1.00190.15      JS10
ATOM  43889  CB  ALA J 100     233.500 165.285  34.794  1.00101.67      JS10
ATOM  43890  C   ALA J 100     235.869 164.484  34.782  1.00190.15      JS10
ATOM  43891  O   ALA J 100     236.447 163.475  35.239  1.00190.15      JS10
ATOM  43892  OXT ALA J 100     236.363 165.632  34.790  1.00101.67      JS10
TER   43892       ALA J 100                                             JS10
ATOM  43893  CB  LYS K  11     225.059 116.074 -80.738  1.00140.77      KS11
ATOM  43894  CG  LYS K  11     225.815 115.759 -79.463  1.00140.77      KS11
ATOM  43895  CD  LYS K  11     227.270 115.425 -79.747  1.00140.77      KS11
ATOM  43896  CE  LYS K  11     227.989 114.980 -78.477  1.00140.77      KS11
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ATOM  43898  C   LYS K  11     224.675 117.528 -82.705  1.00196.26      KS11
ATOM  43899  O   LYS K  11     225.126 117.126 -83.777  1.00196.26      KS11
ATOM  43900  N   LYS K  11     225.257 118.537 -80.510  1.00196.26      KS11
ATOM  43901  CA  LYS K  11     225.476 117.377 -81.422  1.00196.26      KS11
ATOM  43902  N   ARG K  12     223.483 118.108 -82.590  1.00 99.93      KS11
ATOM  43903  CA  ARG K  12     222.608 118.280 -83.741  1.00 99.93      KS11
ATOM  43904  CB  ARG K  12     221.664 117.078 -83.827  1.00180.34      KS11
ATOM  43905  CG  ARG K  12     222.430 115.764 -83.845  1.00180.34      KS11
ATOM  43906  CD  ARG K  12     221.578 114.540 -83.564  1.00180.34      KS11
ATOM  43907  NE  ARG K  12     222.432 113.370 -83.351  1.00180.34      KS11
ATOM  43908  CZ  ARG K  12     221.989 112.138 -83.118  1.00180.34      KS11
ATOM  43909  NH1 ARG K  12     220.687 111.892 -83.066  1.00180.34      KS11
ATOM  43910  NH2 ARG K  12     222.855 111.149 -82.931  1.00180.34      KS11
ATOM  43911  C   ARG K  12     221.819 119.583 -83.683  1.00 99.93      KS11
ATOM  43912  O   ARG K  12     220.640 119.617 -84.031  1.00 99.93      KS11
ATOM  43913  N   GLN K  13     222.491 120.647 -83.247  1.00 78.74      KS11
ATOM  43914  CA  GLN K  13     221.914 121.990 -83.126  1.00 78.74      KS11
ATOM  43915  CB  GLN K  13     222.493 122.891 -84.215  1.00155.78      KS11
ATOM  43916  CG  GLN K  13     224.012 122.850 -84.271  1.00155.78      KS11
ATOM  43917  CD  GLN K  13     224.652 123.009 -82.902  1.00155.78      KS11
ATOM  43918  OE1 GLN K  13     224.440 124.010 -82.218  1.00155.78      KS11
ATOM  43919  NE2 GLN K  13     225.442 122.019 -82.498  1.00155.78      KS11
ATOM  43920  C   GLN K  13     220.381 122.080 -83.142  1.00 78.74      KS11
ATOM  43921  O   GLN K  13     219.730 121.815 -84.161  1.00 78.74      KS11
ATOM  43922  N   VAL K  14     219.815 122.482 -82.004  1.00 88.24      KS11
ATOM  43923  CA  VAL K  14     218.374 122.593 -81.870  1.00 88.24      KS11
ATOM  43924  CB  VAL K  14     217.843 121.461 -80.971  1.00 48.08      KS11
ATOM  43925  CG1 VAL K  14     216.349 121.558 -80.824  1.00 48.08      KS11
ATOM  43926  CG2 VAL K  14     218.180 120.128 -81.592  1.00 48.08      KS11
ATOM  43927  C   VAL K  14     217.907 123.959 -81.362  1.00 88.24      KS11
ATOM  43928  O   VAL K  14     216.719 124.272 -81.420  1.00 88.24      KS11
ATOM  43929  N   ALA K  15     218.833 124.772 -80.867  1.00 89.33      KS11
ATOM  43930  CA  ALA K  15     218.504 126.126 -80.406  1.00 89.33      KS11
ATOM  43931  CB  ALA K  15     218.251 127.014 -81.602  1.00 30.71      KS11
ATOM  43932  C   ALA K  15     217.322 126.250 -79.457  1.00 89.33      KS11
ATOM  43933  O   ALA K  15     217.495 126.365 -78.244  1.00 89.33      KS11
ATOM  43934  N   SER K  16     216.122 126.274 -80.036  1.00 65.94      KS11
ATOM  43935  CA  SER K  16     214.879 126.388 -79.277  1.00 65.94      KS11
ATOM  43936  CB  SER K  16     213.853 127.200 -80.062  1.00116.35      KS11
ATOM  43937  OG  SER K  16     213.435 126.481 -81.211  1.00116.35      KS11
ATOM  43938  C   SER K  16     214.302 125.007 -79.003  1.00 65.94      KS11
ATOM  43939  O   SER K  16     214.534 124.067 -79.760  1.00 65.94      KS11
ATOM  43940  N   GLY K  17     213.543 124.901 -77.918  1.00 66.61      KS11
ATOM  43941  CA  GLY K  17     212.931 123.639 -77.545  1.00 66.61      KS11
ATOM  43942  C   GLY K  17     212.000 123.798 -76.355  1.00 66.61      KS11
ATOM  43943  O   GLY K  17     211.606 124.916 -76.001  1.00 66.61      KS11
ATOM  43944  N   ARG K  18     211.645 122.672 -75.739  1.00 41.75      KS11
ATOM  43945  CA  ARG K  18     210.764 122.666 -74.578  1.00 41.75      KS11
ATOM  43946  CB  ARG K  18     209.519 121.828 -74.878  1.00 72.45      KS11
ATOM  43947  CG  ARG K  18     208.404 122.613 -75.539  1.00 72.45      KS11
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ATOM  43948  CD  ARG K  18     207.883 121.976 -76.825  1.00 72.45       KS11
ATOM  43949  NE  ARG K  18     207.213 120.698 -76.621  1.00 72.45       KS11
ATOM  43950  CZ  ARG K  18     206.495 120.081 -77.556  1.00 72.45       KS11
ATOM  43951  NH1 ARG K  18     206.348 120.621 -78.757  1.00 72.45       KS11
ATOM  43952  NH2 ARG K  18     205.926 118.916 -77.295  1.00 72.45       KS11
ATOM  43953  C   ARG K  18     211.459 122.146 -73.320  1.00 41.75       KS11
ATOM  43954  O   ARG K  18     212.273 121.222 -73.372  1.00 41.75       KS11
ATOM  43955  N   ALA K  19     211.149 122.767 -72.190  1.00 48.45       KS11
ATOM  43956  CA  ALA K  19     211.727 122.358 -70.920  1.00 48.45       KS11
ATOM  43957  CB  ALA K  19     212.385 123.532 -70.245  1.00 33.04       KS11
ATOM  43958  C   ALA K  19     210.600 121.832 -70.055  1.00 48.45       KS11
ATOM  43959  O   ALA K  19     209.763 122.602 -69.591  1.00 48.45       KS11
ATOM  43960  N   TYR K  20     210.573 120.521 -69.852  1.00 42.54       KS11
ATOM  43961  CA  TYR K  20     209.537 119.899 -69.048  1.00 42.54       KS11
ATOM  43962  CB  TYR K  20     209.147 118.533 -69.609  1.00 58.28       KS11
ATOM  43963  CG  TYR K  20     208.301 118.556 -70.858  1.00 58.28       KS11
ATOM  43964  CD1 TYR K  20     208.829 118.951 -72.072  1.00 58.28       KS11
ATOM  43965  CE1 TYR K  20     208.064 118.927 -73.230  1.00 58.28       KS11
ATOM  43966  CD2 TYR K  20     206.979 118.142 -70.827  1.00 58.28       KS11
ATOM  43967  CE2 TYR K  20     206.209 118.117 -71.975  1.00 58.28       KS11
ATOM  43968  CZ  TYR K  20     206.759 118.509 -73.175  1.00 58.28       KS11
ATOM  43969  OH  TYR K  20     206.005 118.477 -74.325  1.00 58.28       KS11
ATOM  43970  C   TYR K  20     210.007 119.693 -67.629  1.00 42.54       KS11
ATOM  43971  O   TYR K  20     210.969 118.966 -67.388  1.00 42.54       KS11
ATOM  43972  N   ILE K  21     209.320 120.326 -66.689  1.00 60.68       KS11
ATOM  43973  CA  ILE K  21     209.648 120.180 -65.286  1.00 60.68       KS11
ATOM  43974  CB  ILE K  21     209.529 121.494 -64.557  1.00 45.13       KS11
ATOM  43975  CG2 ILE K  21     209.828 121.278 -63.081  1.00 45.13       KS11
ATOM  43976  CG1 ILE K  21     210.440 122.529 -65.215  1.00 45.13       KS11
ATOM  43977  CD1 ILE K  21     210.462 123.895 -64.517  1.00 45.13       KS11
ATOM  43978  C   ILE K  21     208.623 119.240 -64.687  1.00 60.68       KS11
ATOM  43979  O   ILE K  21     207.424 119.495 -64.780  1.00 60.68       KS11
ATOM  43980  N   HIS K  22     209.083 118.155 -64.082  1.00 30.49       KS11
ATOM  43981  CA  HIS K  22     208.178 117.196 -63.465  1.00 30.49       KS11
ATOM  43982  CB  HIS K  22     208.501 115.796 -63.960  1.00 58.21       KS11
ATOM  43983  CG  HIS K  22     207.668 114.727 -63.335  1.00 58.21       KS11
ATOM  43984  CD2 HIS K  22     207.926 113.884 -62.307  1.00 58.21       KS11
ATOM  43985  ND1 HIS K  22     206.392 114.432 -63.763  1.00 58.21       KS11
ATOM  43986  CE1 HIS K  22     205.900 113.451 -63.029  1.00 58.21       KS11
ATOM  43987  NE2 HIS K  22     206.812 113.101 -62.138  1.00 58.21       KS11
ATOM  43988  C   HIS K  22     208.354 117.264 -61.951  1.00 30.49       KS11
ATOM  43989  O   HIS K  22     209.002 116.400 -61.350  1.00 30.49       KS11
ATOM  43990  N   ALA K  23     207.785 118.297 -61.335  1.00 58.10       KS11
ATOM  43991  CA  ALA K  23     207.902 118.488 -59.885  1.00 58.10       KS11
ATOM  43992  CB  ALA K  23     207.469 119.893 -59.503  1.00 81.74       KS11
ATOM  43993  C   ALA K  23     207.108 117.485 -59.077  1.00 58.10       KS11
ATOM  43994  O   ALA K  23     206.167 116.878 -59.577  1.00 58.10       KS11
ATOM  43995  N   SER K  24     207.491 117.315 -57.819  1.00 70.38       KS11
ATOM  43996  CA  SER K  24     206.784 116.389 -56.955  1.00 70.38       KS11
ATOM  43997  CB  SER K  24     206.843 114.987 -57.538  1.00 30.91       KS11
ATOM  43998  OG  SER K  24     207.763 114.198 -56.821  1.00 30.91       KS11
ATOM  43999  C   SER K  24     207.302 116.370 -55.519  1.00 70.38       KS11
ATOM  44000  O   SER K  24     208.337 116.960 -55.193  1.00 70.38       KS11
ATOM  44001  N   TYR K  25     206.569 115.674 -54.660  1.00 54.55       KS11
ATOM  44002  CA  TYR K  25     206.936 115.608 -53.267  1.00 54.55       KS11
ATOM  44003  CB  TYR K  25     205.758 115.101 -52.434  1.00138.70       KS11
ATOM  44004  CG  TYR K  25     204.639 116.109 -52.320  1.00138.70       KS11
ATOM  44005  CD1 TYR K  25     203.733 116.296 -53.361  1.00138.70       KS11
ATOM  44006  CE1 TYR K  25     202.736 117.265 -53.279  1.00138.70       KS11
ATOM  44007  CD2 TYR K  25     204.518 116.915 -51.189  1.00138.70       KS11
ATOM  44008  CE2 TYR K  25     203.529 117.887 -51.098  1.00138.70       KS11
ATOM  44009  CZ  TYR K  25     202.643 118.058 -52.146  1.00138.70       KS11
ATOM  44010  OH  TYR K  25     201.675 119.032 -52.064  1.00138.70       KS11
ATOM  44011  C   TYR K  25     208.148 114.744 -53.031  1.00 54.55       KS11
ATOM  44012  O   TYR K  25     208.810 114.854 -52.000  1.00 54.55       KS11
ATOM  44013  N   ASN K  26     208.462 113.891 -53.988  1.00 40.16       KS11
ATOM  44014  CA  ASN K  26     209.605 113.015 -53.814  1.00 40.16       KS11
ATOM  44015  CB  ASN K  26     209.200 111.580 -54.087  1.00 42.18       KS11
ATOM  44016  CG  ASN K  26     208.675 110.906 -52.873  1.00 42.18       KS11
ATOM  44017  OD1 ASN K  26     208.972 111.312 -51.741  1.00 42.18       KS11
ATOM  44018  ND2 ASN K  26     207.900 109.851 -53.081  1.00 42.18       KS11
ATOM  44019  C   ASN K  26     210.861 113.311 -54.614  1.00 40.16       KS11
ATOM  44020  O   ASN K  26     211.908 112.697 -54.353  1.00 40.16       KS11
ATOM  44021  N   ASN K  27     210.766 114.242 -55.565  1.00 42.97       KS11
ATOM  44022  CA  ASN K  27     211.901 114.569 -56.419  1.00 42.97       KS11
ATOM  44023  CB  ASN K  27     212.545 113.255 -56.896  1.00 49.73       KS11
ATOM  44024  CG  ASN K  27     213.528 113.438 -58.027  1.00 49.73       KS11
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ATOM  44025  OD1 ASN K  27     214.287 114.399 -58.072  1.00 49.73      KS11
ATOM  44026  ND2 ASN K  27     213.532 112.484 -58.940  1.00 49.73      KS11
ATOM  44027  C   ASN K  27     211.468 115.404 -57.611  1.00 42.97      KS11
ATOM  44028  O   ASN K  27     210.340 115.295 -58.080  1.00 42.97      KS11
ATOM  44029  N   THR K  28     212.360 116.259 -58.092  1.00 48.93      KS11
ATOM  44030  CA  THR K  28     212.047 117.070 -59.255  1.00 48.93      KS11
ATOM  44031  CB  THR K  28     212.465 118.536 -59.063  1.00 88.45      KS11
ATOM  44032  OG1 THR K  28     211.854 119.061 -57.880  1.00 88.45      KS11
ATOM  44033  CG2 THR K  28     212.037 119.368 -60.260  1.00 88.45      KS11
ATOM  44034  C   THR K  28     212.861 116.494 -60.399  1.00 48.93      KS11
ATOM  44035  O   THR K  28     213.961 115.960 -60.183  1.00 48.93      KS11
ATOM  44036  N   ILE K  29     212.321 116.556 -61.610  1.00 43.79      KS11
ATOM  44037  CA  ILE K  29     213.073 116.066 -62.755  1.00 43.79      KS11
ATOM  44038  CB  ILE K  29     212.911 114.525 -62.957  1.00 37.04      KS11
ATOM  44039  CG2 ILE K  29     212.295 113.896 -61.727  1.00 37.04      KS11
ATOM  44040  CG1 ILE K  29     212.057 114.206 -64.177  1.00 37.04      KS11
ATOM  44041  CD1 ILE K  29     211.795 112.731 -64.297  1.00 37.04      KS11
ATOM  44042  C   ILE K  29     212.686 116.836 -64.002  1.00 43.79      KS11
ATOM  44043  O   ILE K  29     211.510 116.933 -64.355  1.00 43.79      KS11
ATOM  44044  N   VAL K  30     213.692 117.416 -64.645  1.00 45.71      KS11
ATOM  44045  CA  VAL K  30     213.475 118.205 -65.844  1.00 45.71      KS11
ATOM  44046  CB  VAL K  30     214.159 119.545 -65.724  1.00 45.57      KS11
ATOM  44047  CG1 VAL K  30     213.308 120.475 -64.893  1.00 45.57      KS11
ATOM  44048  CG2 VAL K  30     215.495 119.359 -65.044  1.00 45.57      KS11
ATOM  44049  C   VAL K  30     213.994 117.487 -67.065  1.00 45.71      KS11
ATOM  44050  O   VAL K  30     214.940 116.705 -66.979  1.00 45.71      KS11
ATOM  44051  N   THR K  31     213.365 117.754 -68.200  1.00 44.21      KS11
ATOM  44052  CA  THR K  31     213.738 117.119 -69.449  1.00 44.21      KS11
ATOM  44053  CB  THR K  31     212.755 116.001 -69.802  1.00 52.48      KS11
ATOM  44054  OG1 THR K  31     212.659 115.083 -68.715  1.00 52.48      KS11
ATOM  44055  CG2 THR K  31     213.217 115.257 -71.032  1.00 52.48      KS11
ATOM  44056  C   THR K  31     213.676 118.127 -70.579  1.00 44.21      KS11
ATOM  44057  O   THR K  31     212.582 118.563 -70.937  1.00 44.21      KS11
ATOM  44058  N   ILE K  32     214.819 118.511 -71.146  1.00 49.57      KS11
ATOM  44059  CA  ILE K  32     214.789 119.454 -72.262  1.00 49.57      KS11
ATOM  44060  CB  ILE K  32     216.108 120.184 -72.433  1.00 42.55      KS11
ATOM  44061  CG2 ILE K  32     215.964 121.206 -73.555  1.00 42.55      KS11
ATOM  44062  CG1 ILE K  32     216.521 120.849 -71.113  1.00 42.55      KS11
ATOM  44063  CD1 ILE K  32     215.680 122.027 -70.708  1.00 42.55      KS11
ATOM  44064  C   ILE K  32     214.512 118.637 -73.519  1.00 49.57      KS11
ATOM  44065  O   ILE K  32     215.116 117.586 -73.730  1.00 49.57      KS11
ATOM  44066  N   THR K  33     213.602 119.129 -74.352  1.00 49.36      KS11
ATOM  44067  CA  THR K  33     213.195 118.418 -75.558  1.00 49.36      KS11
ATOM  44068  CB  THR K  33     211.687 118.086 -75.479  1.00 47.31      KS11
ATOM  44069  OG1 THR K  33     211.364 117.064 -76.417  1.00 47.31      KS11
ATOM  44070  CG2 THR K  33     210.857 119.309 -75.832  1.00 47.31      KS11
ATOM  44071  C   THR K  33     213.417 119.249 -76.809  1.00 49.36      KS11
ATOM  44072  O   THR K  33     213.697 120.439 -76.729  1.00 49.36      KS11
ATOM  44073  N   ASP K  34     213.282 118.623 -77.972  1.00 61.19      KS11
ATOM  44074  CA  ASP K  34     213.423 119.353 -79.224  1.00 61.19      KS11
ATOM  44075  CB  ASP K  34     213.909 118.431 -80.347  1.00 85.12      KS11
ATOM  44076  CG  ASP K  34     212.839 117.479 -80.832  1.00 85.12      KS11
ATOM  44077  OD1 ASP K  34     211.905 117.185 -80.059  1.00 85.12      KS11
ATOM  44078  OD2 ASP K  34     212.943 117.010 -81.986  1.00 85.12      KS11
ATOM  44079  C   ASP K  34     212.038 119.914 -79.543  1.00 61.19      KS11
ATOM  44080  O   ASP K  34     211.018 119.361 -79.129  1.00 61.19      KS11
ATOM  44081  N   PRO K  35     211.987 121.023 -80.280  1.00 60.05      KS11
ATOM  44082  CD  PRO K  35     213.141 121.614 -80.974  1.00 54.53      KS11
ATOM  44083  CA  PRO K  35     210.763 121.707 -80.678  1.00 60.05      KS11
ATOM  44084  CB  PRO K  35     211.159 122.350 -81.988  1.00 54.53      KS11
ATOM  44085  CG  PRO K  35     212.526 122.830 -81.660  1.00 54.53      KS11
ATOM  44086  C   PRO K  35     209.488 120.896 -80.793  1.00 60.05      KS11
ATOM  44087  O   PRO K  35     208.401 121.472 -80.720  1.00 60.05      KS11
ATOM  44088  N   ASP K  36     209.596 119.580 -80.977  1.00 66.98      KS11
ATOM  44089  CA  ASP K  36     208.387 118.773 -81.093  1.00 66.98      KS11
ATOM  44090  CB  ASP K  36     208.117 118.399 -82.561  1.00127.84      KS11
ATOM  44091  CG  ASP K  36     209.112 117.401 -83.112  1.00127.84      KS11
ATOM  44092  OD1 ASP K  36     209.003 117.064 -84.311  1.00127.84      KS11
ATOM  44093  OD2 ASP K  36     209.995 116.952 -82.354  1.00127.84      KS11
ATOM  44094  C   ASP K  36     208.308 117.533 -80.209  1.00 66.98      KS11
ATOM  44095  O   ASP K  36     207.923 116.450 -80.662  1.00 66.98      KS11
ATOM  44096  N   GLY K  37     208.684 117.697 -78.944  1.00 62.02      KS11
ATOM  44097  CA  GLY K  37     208.570 116.604 -77.998  1.00 62.02      KS11
ATOM  44098  C   GLY K  37     209.699 115.633 -77.739  1.00 62.02      KS11
ATOM  44099  O   GLY K  37     209.751 115.043 -76.654  1.00 62.02      KS11
ATOM  44100  N   ASN K  38     210.603 115.446 -78.694  1.00 40.47      KS11
ATOM  44101  CA  ASN K  38     211.693 114.501 -78.482  1.00 40.47      KS11
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ATOM  44102  CB  ASN K  38     212.218 114.020 -79.824  1.00 68.96      KS11
ATOM  44103  CG  ASN K  38     211.103 113.541 -80.717  1.00 68.96      KS11
ATOM  44104  OD1 ASN K  38     210.733 114.219 -81.670  1.00 68.96      KS11
ATOM  44105  ND2 ASN K  38     210.535 112.381 -80.395  1.00 68.96      KS11
ATOM  44106  C   ASN K  38     212.808 115.048 -77.596  1.00 40.47      KS11
ATOM  44107  O   ASN K  38     213.380 116.112 -77.842  1.00 40.47      KS11
ATOM  44108  N   PRO K  39     213.118 114.318 -76.525  1.00 49.70      KS11
ATOM  44109  CD  PRO K  39     212.454 113.091 -76.053  1.00 38.49      KS11
ATOM  44110  CA  PRO K  39     214.159 114.745 -75.595  1.00 49.70      KS11
ATOM  44111  CB  PRO K  39     214.054 113.710 -74.468  1.00 38.49      KS11
ATOM  44112  CG  PRO K  39     213.487 112.508 -75.139  1.00 38.49      KS11
ATOM  44113  C   PRO K  39     215.583 114.919 -76.115  1.00 49.70      KS11
ATOM  44114  O   PRO K  39     216.144 114.047 -76.774  1.00 49.70      KS11
ATOM  44115  N   ILE K  40     216.142 116.084 -75.807  1.00 48.87      KS11
ATOM  44116  CA  ILE K  40     217.513 116.441 -76.151  1.00 48.87      KS11
ATOM  44117  CB  ILE K  40     217.701 117.978 -76.156  1.00 54.43      KS11
ATOM  44118  CG2 ILE K  40     219.152 118.338 -75.904  1.00 54.43      KS11
ATOM  44119  CG1 ILE K  40     217.221 118.573 -77.474  1.00 54.43      KS11
ATOM  44120  CD1 ILE K  40     217.317 120.092 -77.499  1.00 54.43      KS11
ATOM  44121  C   ILE K  40     218.376 115.871 -75.023  1.00 48.87      KS11
ATOM  44122  O   ILE K  40     219.324 115.122 -75.259  1.00 48.87      KS11
ATOM  44123  N   THR K  41     218.022 116.255 -73.797  1.00 65.70      KS11
ATOM  44124  CA  THR K  41     218.716 115.829 -72.584  1.00 65.70      KS11
ATOM  44125  CB  THR K  41     219.953 116.702 -72.310  1.00 63.57      KS11
ATOM  44126  OG1 THR K  41     219.544 118.055 -72.052  1.00 63.57      KS11
ATOM  44127  CG2 THR K  41     220.892 116.677 -73.500  1.00 63.57      KS11
ATOM  44128  C   THR K  41     217.798 115.955 -71.367  1.00 65.70      KS11
ATOM  44129  O   THR K  41     216.822 116.706 -71.394  1.00 65.70      KS11
ATOM  44130  N   TRP K  42     218.115 115.226 -70.301  1.00 53.59      KS11
ATOM  44131  CA  TRP K  42     217.319 115.295 -69.082  1.00 53.59      KS11
ATOM  44132  CB  TRP K  42     216.374 114.115 -68.952  1.00 40.12      KS11
ATOM  44133  CG  TRP K  42     217.076 112.812 -68.775  1.00 40.12      KS11
ATOM  44134  CD2 TRP K  42     217.199 112.036 -67.569  1.00 40.12      KS11
ATOM  44135  CE2 TRP K  42     217.877 110.849 -67.907  1.00 40.12      KS11
ATOM  44136  CE3 TRP K  42     216.798 112.225 -66.240  1.00 40.12      KS11
ATOM  44137  CD1 TRP K  42     217.673 112.095 -69.747  1.00 40.12      KS11
ATOM  44138  NE1 TRP K  42     218.155 110.914 -69.244  1.00 40.12      KS11
ATOM  44139  CZ2 TRP K  42     218.166 109.843 -66.965  1.00 40.12      KS11
ATOM  44140  CZ3 TRP K  42     217.085 111.223 -65.299  1.00 40.12      KS11
ATOM  44141  CH2 TRP K  42     217.762 110.048 -65.673  1.00 40.12      KS11
ATOM  44142  C   TRP K  42     218.192 115.268 -67.863  1.00 53.59      KS11
ATOM  44143  O   TRP K  42     219.366 114.920 -67.926  1.00 53.59      KS11
ATOM  44144  N   SER K  43     217.587 115.601 -66.738  1.00 64.79      KS11
ATOM  44145  CA  SER K  43     218.286 115.588 -65.476  1.00 64.79      KS11
ATOM  44146  CB  SER K  43     219.043 116.889 -65.291  1.00 54.78      KS11
ATOM  44147  OG  SER K  43     219.556 116.951 -63.978  1.00 54.78      KS11
ATOM  44148  C   SER K  43     217.282 115.404 -64.345  1.00 64.79      KS11
ATOM  44149  O   SER K  43     216.068 115.571 -64.539  1.00 64.79      KS11
ATOM  44150  N   SER K  44     217.783 115.056 -63.164  1.00 32.25      KS11
ATOM  44151  CA  SER K  44     216.914 114.861 -62.018  1.00 32.25      KS11
ATOM  44152  CB  SER K  44     216.364 113.458 -62.001  1.00 24.90      KS11
ATOM  44153  OG  SER K  44     217.220 112.660 -61.200  1.00 24.90      KS11
ATOM  44154  C   SER K  44     217.706 115.040 -60.748  1.00 32.25      KS11
ATOM  44155  O   SER K  44     218.905 115.274 -60.782  1.00 32.25      KS11
ATOM  44156  N   GLY K  45     217.020 114.901 -59.622  1.00 39.17      KS11
ATOM  44157  CA  GLY K  45     217.684 115.022 -58.343  1.00 39.17      KS11
ATOM  44158  C   GLY K  45     218.569 113.813 -58.168  1.00 39.17      KS11
ATOM  44159  O   GLY K  45     219.602 113.873 -57.518  1.00 39.17      KS11
ATOM  44160  N   GLY K  46     218.157 112.697 -58.746  1.00 49.85      KS11
ATOM  44161  CA  GLY K  46     218.969 111.507 -58.641  1.00 49.85      KS11
ATOM  44162  C   GLY K  46     220.118 111.674 -59.613  1.00 49.85      KS11
ATOM  44163  O   GLY K  46     221.256 111.316 -59.306  1.00 49.85      KS11
ATOM  44164  N   VAL K  47     219.811 112.225 -60.789  1.00 75.61      KS11
ATOM  44165  CA  VAL K  47     220.810 112.462 -61.828  1.00 75.61      KS11
ATOM  44166  CB  VAL K  47     220.300 113.425 -62.907  1.00 87.66      KS11
ATOM  44167  CG1 VAL K  47     221.449 113.861 -63.801  1.00 87.66      KS11
ATOM  44168  CG2 VAL K  47     219.236 112.749 -63.730  1.00 87.66      KS11
ATOM  44169  C   VAL K  47     222.013 113.092 -61.184  1.00 75.61      KS11
ATOM  44170  O   VAL K  47     223.147 112.765 -61.508  1.00 75.61      KS11
ATOM  44171  N   ILE K  48     221.758 114.014 -60.271  1.00 52.53      KS11
ATOM  44172  CA  ILE K  48     222.845 114.658 -59.573  1.00 52.53      KS11
ATOM  44173  CB  ILE K  48     222.481 116.072 -59.157  1.00 36.56      KS11
ATOM  44174  CG2 ILE K  48     223.695 116.760 -58.512  1.00 36.56      KS11
ATOM  44175  CG1 ILE K  48     222.049 116.850 -60.395  1.00 36.56      KS11
ATOM  44176  CD1 ILE K  48     221.489 118.192 -60.068  1.00 36.56      KS11
ATOM  44177  C   ILE K  48     223.212 113.843 -58.344  1.00 52.53      KS11
ATOM  44178  O   ILE K  48     222.965 112.642 -58.282  1.00 52.53      KS11
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ATOM  44179  N   GLY K  49     223.772 114.502 -57.347  1.00 39.05      KS11
ATOM  44180  CA  GLY K  49     224.212 113.786 -56.169  1.00 39.05      KS11
ATOM  44181  C   GLY K  49     223.218 113.135 -55.250  1.00 39.05      KS11
ATOM  44182  O   GLY K  49     223.275 111.931 -55.055  1.00 39.05      KS11
ATOM  44183  N   TYR K  50     222.340 113.951 -54.674  1.00 47.39      KS11
ATOM  44184  CA  TYR K  50     221.321 113.534 -53.713  1.00 47.39      KS11
ATOM  44185  CB  TYR K  50     220.258 114.615 -53.658  1.00 57.73      KS11
ATOM  44186  CG  TYR K  50     220.856 115.948 -53.262  1.00 57.73      KS11
ATOM  44187  CD1 TYR K  50     220.493 117.121 -53.914  1.00 57.73      KS11
ATOM  44188  CE1 TYR K  50     221.036 118.340 -53.549  1.00 57.73      KS11
ATOM  44189  CD2 TYR K  50     221.785 116.031 -52.232  1.00 57.73      KS11
ATOM  44190  CE2 TYR K  50     222.333 117.236 -51.860  1.00 57.73      KS11
ATOM  44191  CZ  TYR K  50     221.954 118.388 -52.519  1.00 57.73      KS11
ATOM  44192  OH  TYR K  50     222.482 119.595 -52.135  1.00 57.73      KS11
ATOM  44193  C   TYR K  50     220.732 112.189 -54.032  1.00 47.39      KS11
ATOM  44194  O   TYR K  50     220.294 111.960 -55.151  1.00 47.39      KS11
ATOM  44195  N   LYS K  51     220.716 111.297 -53.048  1.00 68.01      KS11
ATOM  44196  CA  LYS K  51     220.228 109.956 -53.311  1.00 68.01      KS11
ATOM  44197  CB  LYS K  51     221.237 108.921 -52.800  1.00179.33      KS11
ATOM  44198  CG  LYS K  51     221.052 107.540 -53.428  1.00179.33      KS11
ATOM  44199  CD  LYS K  51     222.065 106.519 -52.923  1.00179.33      KS11
ATOM  44200  CE  LYS K  51     221.827 106.161 -51.464  1.00179.33      KS11
ATOM  44201  NZ  LYS K  51     222.731 105.067 -51.005  1.00179.33      KS11
ATOM  44202  C   LYS K  51     218.841 109.576 -52.822  1.00 68.01      KS11
ATOM  44203  O   LYS K  51     218.240 108.628 -53.348  1.00 68.01      KS11
ATOM  44204  N   GLY K  52     218.298 110.282 -51.841  1.00 60.64      KS11
ATOM  44205  CA  GLY K  52     216.984 109.860 -51.403  1.00 60.64      KS11
ATOM  44206  C   GLY K  52     216.009 110.898 -50.922  1.00 60.64      KS11
ATOM  44207  O   GLY K  52     215.254 111.494 -51.701  1.00 60.64      KS11
ATOM  44208  N   SER K  53     216.021 111.083 -49.611  1.00 55.92      KS11
ATOM  44209  CA  SER K  53     215.139 112.022 -48.959  1.00 55.92      KS11
ATOM  44210  CB  SER K  53     215.444 112.048 -47.465  1.00 98.80      KS11
ATOM  44211  OG  SER K  53     214.464 112.793 -46.772  1.00 98.80      KS11
ATOM  44212  C   SER K  53     215.208 113.438 -49.528  1.00 55.92      KS11
ATOM  44213  O   SER K  53     214.195 114.124 -49.574  1.00 55.92      KS11
ATOM  44214  N   ARG K  54     216.381 113.878 -49.981  1.00 52.01      KS11
ATOM  44215  CA  ARG K  54     216.480 115.237 -50.483  1.00 52.01      KS11
ATOM  44216  CB  ARG K  54     217.705 115.954 -49.900  1.00131.14      KS11
ATOM  44217  CG  ARG K  54     219.035 115.338 -50.229  1.00131.14      KS11
ATOM  44218  CD  ARG K  54     219.270 114.085 -49.418  1.00131.14      KS11
ATOM  44219  NE  ARG K  54     220.611 113.553 -49.634  1.00131.14      KS11
ATOM  44220  CZ  ARG K  54     221.731 114.219 -49.369  1.00131.14      KS11
ATOM  44221  NH1 ARG K  54     221.675 115.450 -48.872  1.00131.14      KS11
ATOM  44222  NH2 ARG K  54     222.909 113.654 -49.602  1.00131.14      KS11
ATOM  44223  C   ARG K  54     216.446 115.445 -51.981  1.00 52.01      KS11
ATOM  44224  O   ARG K  54     216.659 116.560 -52.444  1.00 52.01      KS11
ATOM  44225  N   LYS K  55     216.179 114.406 -52.760  1.00 50.65      KS11
ATOM  44226  CA  LYS K  55     216.105 114.629 -54.201  1.00 50.65      KS11
ATOM  44227  CB  LYS K  55     215.796 113.322 -54.938  1.00 31.77      KS11
ATOM  44228  CG  LYS K  55     216.815 112.239 -54.692  1.00 31.77      KS11
ATOM  44229  CD  LYS K  55     216.663 111.070 -55.658  1.00 31.77      KS11
ATOM  44230  CE  LYS K  55     215.537 110.107 -55.269  1.00 31.77      KS11
ATOM  44231  NZ  LYS K  55     215.997 108.669 -55.137  1.00 31.77      KS11
ATOM  44232  C   LYS K  55     214.972 115.643 -54.413  1.00 50.65      KS11
ATOM  44233  O   LYS K  55     214.964 116.415 -55.375  1.00 50.65      KS11
ATOM  44234  N   GLY K  56     214.029 115.650 -53.477  1.00 75.28      KS11
ATOM  44235  CA  GLY K  56     212.904 116.560 -53.564  1.00 75.28      KS11
ATOM  44236  C   GLY K  56     213.237 117.996 -53.206  1.00 75.28      KS11
ATOM  44237  O   GLY K  56     212.722 118.928 -53.826  1.00 75.28      KS11
ATOM  44238  N   THR K  57     214.090 118.177 -52.201  1.00 46.98      KS11
ATOM  44239  CA  THR K  57     214.487 119.511 -51.772  1.00 46.98      KS11
ATOM  44240  CB  THR K  57     215.859 119.507 -51.114  1.00 66.21      KS11
ATOM  44241  OG1 THR K  57     216.161 120.833 -50.669  1.00 66.21      KS11
ATOM  44242  CG2 THR K  57     216.924 119.098 -52.106  1.00 66.21      KS11
ATOM  44243  C   THR K  57     214.561 120.505 -52.924  1.00 46.98      KS11
ATOM  44244  O   THR K  57     215.003 120.178 -54.029  1.00 46.98      KS11
ATOM  44245  N   PRO K  58     214.137 121.747 -52.676  1.00 68.57      KS11
ATOM  44246  CD  PRO K  58     213.631 122.349 -51.433  1.00 39.31      KS11
ATOM  44247  CA  PRO K  58     214.193 122.737 -53.750  1.00 68.57      KS11
ATOM  44248  CB  PRO K  58     213.639 124.002 -53.083  1.00 39.31      KS11
ATOM  44249  CG  PRO K  58     213.964 123.804 -51.641  1.00 39.31      KS11
ATOM  44250  C   PRO K  58     215.606 122.911 -54.308  1.00 68.57      KS11
ATOM  44251  O   PRO K  58     215.784 123.117 -55.511  1.00 68.57      KS11
ATOM  44252  N   TYR K  59     216.614 122.811 -53.449  1.00 51.28      KS11
ATOM  44253  CA  TYR K  59     217.976 122.966 -53.935  1.00 51.28      KS11
ATOM  44254  CB  TYR K  59     218.993 122.722 -52.816  1.00 58.36      KS11
ATOM  44255  CG  TYR K  59     220.403 123.092 -53.221  1.00 58.36      KS11
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ATOM  44256  CD1 TYR K  59     220.651 124.260 -53.935  1.00 58.36       KS11
ATOM  44257  CE1 TYR K  59     221.934 124.596 -54.354  1.00 58.36       KS11
ATOM  44258  CD2 TYR K  59     221.482 122.264 -52.923  1.00 58.36       KS11
ATOM  44259  CE2 TYR K  59     222.778 122.589 -53.337  1.00 58.36       KS11
ATOM  44260  CZ  TYR K  59     222.995 123.759 -54.058  1.00 58.36       KS11
ATOM  44261  OH  TYR K  59     224.263 124.088 -54.511  1.00 58.36       KS11
ATOM  44262  C   TYR K  59     218.191 121.978 -55.079  1.00 51.28       KS11
ATOM  44263  O   TYR K  59     218.403 122.375 -56.231  1.00 51.28       KS11
ATOM  44264  N   ALA K  60     218.123 120.691 -54.750  1.00 38.78       KS11
ATOM  44265  CA  ALA K  60     218.277 119.628 -55.729  1.00 38.78       KS11
ATOM  44266  CB  ALA K  60     217.686 118.317 -55.169  1.00 25.45       KS11
ATOM  44267  C   ALA K  60     217.550 120.027 -57.011  1.00 38.78       KS11
ATOM  44268  O   ALA K  60     218.080 119.896 -58.113  1.00 38.78       KS11
ATOM  44269  N   ALA K  61     216.328 120.520 -56.862  1.00 48.84       KS11
ATOM  44270  CA  ALA K  61     215.551 120.926 -58.022  1.00 48.84       KS11
ATOM  44271  CB  ALA K  61     214.232 121.536 -57.583  1.00 88.68       KS11
ATOM  44272  C   ALA K  61     216.352 121.929 -58.843  1.00 48.84       KS11
ATOM  44273  O   ALA K  61     216.383 121.860 -60.071  1.00 48.84       KS11
ATOM  44274  N   GLN K  62     217.006 122.857 -58.155  1.00 50.63       KS11
ATOM  44275  CA  GLN K  62     217.810 123.866 -58.830  1.00 50.63       KS11
ATOM  44276  CB  GLN K  62     218.345 124.869 -57.813  1.00 75.18       KS11
ATOM  44277  CG  GLN K  62     219.254 125.919 -58.408  1.00 75.18       KS11
ATOM  44278  CD  GLN K  62     219.399 127.114 -57.500  1.00 75.18       KS11
ATOM  44279  OE1 GLN K  62     219.688 126.971 -56.311  1.00 75.18       KS11
ATOM  44280  NE2 GLN K  62     219.196 128.306 -58.053  1.00 75.18       KS11
ATOM  44281  C   GLN K  62     218.967 123.211 -59.572  1.00 50.63       KS11
ATOM  44282  O   GLN K  62     219.153 123.407 -60.774  1.00 50.63       KS11
ATOM  44283  N   LEU K  63     219.744 122.426 -58.846  1.00 55.02       KS11
ATOM  44284  CA  LEU K  63     220.867 121.746 -59.453  1.00 55.02       KS11
ATOM  44285  CB  LEU K  63     221.472 120.771 -58.455  1.00 53.38       KS11
ATOM  44286  CG  LEU K  63     221.984 121.425 -57.174  1.00 53.38       KS11
ATOM  44287  CD1 LEU K  63     222.281 120.335 -56.166  1.00 53.38       KS11
ATOM  44288  CD2 LEU K  63     223.218 122.267 -57.458  1.00 53.38       KS11
ATOM  44289  C   LEU K  63     220.415 121.011 -60.710  1.00 55.02       KS11
ATOM  44290  O   LEU K  63     220.961 121.225 -61.792  1.00 55.02       KS11
ATOM  44291  N   ALA K  64     219.409 120.156 -60.574  1.00 36.69       KS11
ATOM  44292  CA  ALA K  64     218.906 119.406 -61.724  1.00 36.69       KS11
ATOM  44293  CB  ALA K  64     217.667 118.604 -61.332  1.00 32.94       KS11
ATOM  44294  C   ALA K  64     218.589 120.329 -62.901  1.00 36.69       KS11
ATOM  44295  O   ALA K  64     219.147 120.182 -63.986  1.00 36.69       KS11
ATOM  44296  N   ALA K  65     217.692 121.280 -62.683  1.00 36.39       KS11
ATOM  44297  CA  ALA K  65     217.327 122.204 -63.737  1.00 36.39       KS11
ATOM  44298  CB  ALA K  65     216.493 123.335 -63.172  1.00 65.71       KS11
ATOM  44299  C   ALA K  65     218.601 122.752 -64.372  1.00 36.39       KS11
ATOM  44300  O   ALA K  65     218.750 122.743 -65.593  1.00 36.39       KS11
ATOM  44301  N   LEU K  66     219.523 123.225 -63.546  1.00 47.39       KS11
ATOM  44302  CA  LEU K  66     220.767 123.758 -64.075  1.00 47.39       KS11
ATOM  44303  CB  LEU K  66     221.659 124.249 -62.937  1.00 47.95       KS11
ATOM  44304  CG  LEU K  66     221.113 125.476 -62.205  1.00 47.95       KS11
ATOM  44305  CD1 LEU K  66     222.123 125.957 -61.166  1.00 47.95       KS11
ATOM  44306  CD2 LEU K  66     220.816 126.574 -63.221  1.00 47.95       KS11
ATOM  44307  C   LEU K  66     221.494 122.706 -64.913  1.00 47.39       KS11
ATOM  44308  O   LEU K  66     221.925 122.989 -66.031  1.00 47.39       KS11
ATOM  44309  N   ASP K  67     221.629 121.493 -64.378  1.00 46.21       KS11
ATOM  44310  CA  ASP K  67     222.281 120.411 -65.112  1.00 46.21       KS11
ATOM  44311  CB  ASP K  67     222.092 119.084 -64.382  1.00 73.97       KS11
ATOM  44312  CG  ASP K  67     222.948 117.972 -64.958  1.00 73.97       KS11
ATOM  44313  OD1 ASP K  67     222.536 116.796 -64.874  1.00 73.97       KS11
ATOM  44314  OD2 ASP K  67     224.042 118.271 -65.481  1.00 73.97       KS11
ATOM  44315  C   ASP K  67     221.612 120.327 -66.481  1.00 46.21       KS11
ATOM  44316  O   ASP K  67     222.244 120.524 -67.510  1.00 46.21       KS11
ATOM  44317  N   ALA K  68     220.314 120.049 -66.474  1.00 51.47       KS11
ATOM  44318  CA  ALA K  68     219.535 119.945 -67.697  1.00 51.47       KS11
ATOM  44319  CB  ALA K  68     218.063 119.950 -67.363  1.00 78.99       KS11
ATOM  44320  C   ALA K  68     219.845 121.057 -68.692  1.00 51.47       KS11
ATOM  44321  O   ALA K  68     219.932 120.809 -69.888  1.00 51.47       KS11
ATOM  44322  N   ALA K  69     220.008 122.282 -68.212  1.00 51.48       KS11
ATOM  44323  CA  ALA K  69     220.310 123.379 -69.117  1.00 51.48       KS11
ATOM  44324  CB  ALA K  69     220.372 124.693 -68.369  1.00 42.92       KS11
ATOM  44325  C   ALA K  69     221.641 123.109 -69.800  1.00 51.48       KS11
ATOM  44326  O   ALA K  69     221.672 122.709 -70.961  1.00 51.48       KS11
ATOM  44327  N   LYS K  70     222.738 123.329 -69.081  1.00 63.75       KS11
ATOM  44328  CA  LYS K  70     224.068 123.098 -69.631  1.00 63.75       KS11
ATOM  44329  CB  LYS K  70     225.040 122.754 -68.505  1.00145.18       KS11
ATOM  44330  CG  LYS K  70     225.104 123.834 -67.444  1.00145.18       KS11
ATOM  44331  CD  LYS K  70     225.787 123.349 -66.178  1.00145.18       KS11
ATOM  44332  CE  LYS K  70     225.672 124.392 -65.070  1.00145.18       KS11
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ATOM  44333  NZ  LYS K  70     226.243 123.923 -63.775  1.00145.18      KS11
ATOM  44334  C   LYS K  70     224.012 121.965 -70.650  1.00 63.75      KS11
ATOM  44335  O   LYS K  70     224.103 122.199 -71.863  1.00 63.75      KS11
ATOM  44336  N   LYS K  71     223.836 120.742 -70.159  1.00 56.33      KS11
ATOM  44337  CA  LYS K  71     223.762 119.581 -71.031  1.00 56.33      KS11
ATOM  44338  CB  LYS K  71     223.049 118.434 -70.335  1.00 41.09      KS11
ATOM  44339  CG  LYS K  71     223.825 117.790 -69.221  1.00 41.09      KS11
ATOM  44340  CD  LYS K  71     223.051 116.593 -68.699  1.00 41.09      KS11
ATOM  44341  CE  LYS K  71     223.816 115.819 -67.630  1.00 41.09      KS11
ATOM  44342  NZ  LYS K  71     223.051 114.595 -67.219  1.00 41.09      KS11
ATOM  44343  C   LYS K  71     223.024 119.893 -72.318  1.00 56.33      KS11
ATOM  44344  O   LYS K  71     223.411 119.444 -73.389  1.00 56.33      KS11
ATOM  44345  N   ALA K  72     221.956 120.668 -72.214  1.00 47.03      KS11
ATOM  44346  CA  ALA K  72     221.173 121.003 -73.388  1.00 47.03      KS11
ATOM  44347  CB  ALA K  72     219.736 121.275 -72.986  1.00 65.41      KS11
ATOM  44348  C   ALA K  72     221.722 122.177 -74.190  1.00 47.03      KS11
ATOM  44349  O   ALA K  72     221.499 122.261 -75.391  1.00 47.03      KS11
ATOM  44350  N   MET K  73     222.422 123.101 -73.548  1.00 72.34      KS11
ATOM  44351  CA  MET K  73     222.961 124.219 -74.307  1.00 72.34      KS11
ATOM  44352  CB  MET K  73     223.515 125.299 -73.374  1.00 94.68      KS11
ATOM  44353  CG  MET K  73     222.437 126.118 -72.681  1.00 94.68      KS11
ATOM  44354  SD  MET K  73     223.070 127.572 -71.802  1.00 94.68      KS11
ATOM  44355  CE  MET K  73     223.341 126.888 -70.146  1.00 94.68      KS11
ATOM  44356  C   MET K  73     224.055 123.695 -75.231  1.00 72.34      KS11
ATOM  44357  O   MET K  73     224.243 124.193 -76.345  1.00 72.34      KS11
ATOM  44358  N   ALA K  74     224.768 122.675 -74.765  1.00 75.77      KS11
ATOM  44359  CA  ALA K  74     225.830 122.073 -75.557  1.00 75.77      KS11
ATOM  44360  CB  ALA K  74     226.431 120.904 -74.808  1.00 75.57      KS11
ATOM  44361  C   ALA K  74     225.276 121.606 -76.904  1.00 75.77      KS11
ATOM  44362  O   ALA K  74     225.979 121.607 -77.910  1.00 75.77      KS11
ATOM  44363  N   TYR K  75     224.011 121.201 -76.909  1.00 77.91      KS11
ATOM  44364  CA  TYR K  75     223.346 120.747 -78.124  1.00 77.91      KS11
ATOM  44365  CB  TYR K  75     222.105 119.924 -77.783  1.00114.88      KS11
ATOM  44366  CG  TYR K  75     222.320 118.434 -77.690  1.00114.88      KS11
ATOM  44367  CD1 TYR K  75     223.376 117.901 -76.954  1.00114.88      KS11
ATOM  44368  CE1 TYR K  75     223.540 116.520 -76.828  1.00114.88      KS11
ATOM  44369  CD2 TYR K  75     221.431 117.552 -78.302  1.00114.88      KS11
ATOM  44370  CE2 TYR K  75     221.583 116.174 -78.182  1.00114.88      KS11
ATOM  44371  CZ  TYR K  75     222.638 115.664 -77.445  1.00114.88      KS11
ATOM  44372  OH  TYR K  75     222.787 114.300 -77.330  1.00114.88      KS11
ATOM  44373  C   TYR K  75     222.914 121.945 -78.951  1.00 77.91      KS11
ATOM  44374  O   TYR K  75     222.223 121.782 -79.950  1.00 77.91      KS11
ATOM  44375  N   GLY K  76     223.300 123.146 -78.523  1.00 83.21      KS11
ATOM  44376  CA  GLY K  76     222.935 124.344 -79.261  1.00 83.21      KS11
ATOM  44377  C   GLY K  76     221.690 125.068 -78.768  1.00 83.21      KS11
ATOM  44378  O   GLY K  76     221.317 126.101 -79.328  1.00 83.21      KS11
ATOM  44379  N   MET K  77     221.042 124.530 -77.733  1.00 75.79      KS11
ATOM  44380  CA  MET K  77     219.840 125.130 -77.151  1.00 75.79      KS11
ATOM  44381  CB  MET K  77     219.341 124.278 -75.980  1.00 94.71      KS11
ATOM  44382  CG  MET K  77     218.360 123.163 -76.331  1.00 94.71      KS11
ATOM  44383  SD  MET K  77     216.684 123.757 -76.685  1.00 94.71      KS11
ATOM  44384  CE  MET K  77     216.301 124.611 -75.190  1.00 94.71      KS11
ATOM  44385  C   MET K  77     220.130 126.533 -76.634  1.00 75.79      KS11
ATOM  44386  O   MET K  77     221.264 126.847 -76.290  1.00 75.79      KS11
ATOM  44387  N   GLN K  78     219.101 127.369 -76.561  1.00 85.01      KS11
ATOM  44388  CA  GLN K  78     219.258 128.733 -76.061  1.00 85.01      KS11
ATOM  44389  CB  GLN K  78     220.241 129.498 -76.940  1.00 99.57      KS11
ATOM  44390  CG  GLN K  78     220.013 129.285 -78.417  1.00 99.57      KS11
ATOM  44391  CD  GLN K  78     220.917 130.146 -79.263  1.00 99.57      KS11
ATOM  44392  OE1 GLN K  78     222.124 130.211 -79.030  1.00 99.57      KS11
ATOM  44393  NE2 GLN K  78     220.341 130.811 -80.259  1.00 99.57      KS11
ATOM  44394  C   GLN K  78     217.928 129.484 -76.005  1.00 85.01      KS11
ATOM  44395  O   GLN K  78     217.891 130.707 -76.141  1.00 85.01      KS11
ATOM  44396  N   SER K  79     216.844 128.739 -75.796  1.00 58.44      KS11
ATOM  44397  CA  SER K  79     215.488 129.287 -75.726  1.00 58.44      KS11
ATOM  44398  CB  SER K  79     215.123 129.986 -77.035  1.00124.24      KS11
ATOM  44399  OG  SER K  79     213.742 130.295 -77.066  1.00124.24      KS11
ATOM  44400  C   SER K  79     214.526 128.131 -75.493  1.00 58.44      KS11
ATOM  44401  O   SER K  79     214.586 127.122 -76.193  1.00 58.44      KS11
ATOM  44402  N   VAL K  80     213.637 128.279 -74.515  1.00 90.36      KS11
ATOM  44403  CA  VAL K  80     212.690 127.216 -74.202  1.00 90.36      KS11
ATOM  44404  CB  VAL K  80     213.199 126.292 -73.097  1.00 39.07      KS11
ATOM  44405  CG1 VAL K  80     213.082 124.844 -73.552  1.00 39.07      KS11
ATOM  44406  CG2 VAL K  80     214.623 126.684 -72.691  1.00 39.07      KS11
ATOM  44407  C   VAL K  80     211.357 127.691 -73.694  1.00 90.36      KS11
ATOM  44408  O   VAL K  80     211.263 128.719 -73.032  1.00 90.36      KS11
ATOM  44409  N   ASP K  81     210.330 126.906 -73.993  1.00 56.87      KS11
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ATOM  44410  CA  ASP K  81     208.983 127.177 -73.526  1.00 56.87       KS11
ATOM  44411  CB  ASP K  81     207.954 126.832 -74.601  1.00156.98       KS11
ATOM  44412  CG  ASP K  81     208.280 127.454 -75.941  1.00156.98       KS11
ATOM  44413  OD1 ASP K  81     209.338 127.112 -76.514  1.00156.98       KS11
ATOM  44414  OD2 ASP K  81     207.480 128.284 -76.419  1.00156.98       KS11
ATOM  44415  C   ASP K  81     208.886 126.178 -72.385  1.00 56.87       KS11
ATOM  44416  O   ASP K  81     208.905 124.970 -72.627  1.00 56.87       KS11
ATOM  44417  N   VAL K  82     208.817 126.660 -71.147  1.00 50.79       KS11
ATOM  44418  CA  VAL K  82     208.744 125.743 -70.022  1.00 50.79       KS11
ATOM  44419  CB  VAL K  82     209.122 126.405 -68.703  1.00 34.22       KS11
ATOM  44420  CG1 VAL K  82     209.076 125.366 -67.600  1.00 34.22       KS11
ATOM  44421  CG2 VAL K  82     210.505 127.001 -68.793  1.00 34.22       KS11
ATOM  44422  C   VAL K  82     207.360 125.149 -69.857  1.00 50.79       KS11
ATOM  44423  O   VAL K  82     206.349 125.810 -70.110  1.00 50.79       KS11
ATOM  44424  N   ILE K  83     207.332 123.892 -69.427  1.00 32.76       KS11
ATOM  44425  CA  ILE K  83     206.096 123.162 -69.217  1.00 32.76       KS11
ATOM  44426  CB  ILE K  83     205.953 122.067 -70.247  1.00 60.18       KS11
ATOM  44427  CG2 ILE K  83     204.594 121.416 -70.119  1.00 60.18       KS11
ATOM  44428  CG1 ILE K  83     206.133 122.667 -71.635  1.00 60.18       KS11
ATOM  44429  CD1 ILE K  83     205.995 121.672 -72.746  1.00 60.18       KS11
ATOM  44430  C   ILE K  83     206.111 122.540 -67.831  1.00 32.76       KS11
ATOM  44431  O   ILE K  83     206.788 121.544 -67.593  1.00 32.76       KS11
ATOM  44432  N   VAL K  84     205.354 123.131 -66.917  1.00 46.41       KS11
ATOM  44433  CA  VAL K  84     205.308 122.648 -65.551  1.00 46.41       KS11
ATOM  44434  CB  VAL K  84     205.024 123.788 -64.580  1.00 34.14       KS11
ATOM  44435  CG1 VAL K  84     205.330 123.346 -63.185  1.00 34.14       KS11
ATOM  44436  CG2 VAL K  84     205.841 124.987 -64.934  1.00 34.14       KS11
ATOM  44437  C   VAL K  84     204.249 121.582 -65.336  1.00 46.41       KS11
ATOM  44438  O   VAL K  84     203.102 121.745 -65.733  1.00 46.41       KS11
ATOM  44439  N   ARG K  85     204.650 120.486 -64.707  1.00 56.19       KS11
ATOM  44440  CA  ARG K  85     203.740 119.393 -64.409  1.00 56.19       KS11
ATOM  44441  CB  ARG K  85     204.018 118.181 -65.304  1.00 67.98       KS11
ATOM  44442  CG  ARG K  85     203.595 118.352 -66.753  1.00 67.98       KS11
ATOM  44443  CD  ARG K  85     202.765 117.149 -67.206  1.00 67.98       KS11
ATOM  44444  NE  ARG K  85     202.270 117.275 -68.578  1.00 67.98       KS11
ATOM  44445  CZ  ARG K  85     202.991 117.023 -69.668  1.00 67.98       KS11
ATOM  44446  NH1 ARG K  85     204.246 116.620 -69.558  1.00 67.98       KS11
ATOM  44447  NH2 ARG K  85     202.462 117.188 -70.873  1.00 67.98       KS11
ATOM  44448  C   ARG K  85     203.984 119.030 -62.958  1.00 56.19       KS11
ATOM  44449  O   ARG K  85     205.075 119.269 -62.442  1.00 56.19       KS11
ATOM  44450  N   GLY K  86     202.974 118.464 -62.302  1.00 43.46       KS11
ATOM  44451  CA  GLY K  86     203.103 118.082 -60.903  1.00 43.46       KS11
ATOM  44452  C   GLY K  86     203.073 119.241 -59.917  1.00 43.46       KS11
ATOM  44453  O   GLY K  86     203.473 120.364 -60.230  1.00 43.46       KS11
ATOM  44454  N   THR K  87     202.587 118.974 -58.713  1.00 81.76       KS11
ATOM  44455  CA  THR K  87     202.523 120.009 -57.693  1.00 81.76       KS11
ATOM  44456  CB  THR K  87     201.083 120.253 -57.212  1.00136.20       KS11
ATOM  44457  OG1 THR K  87     200.280 120.713 -58.306  1.00136.20       KS11
ATOM  44458  CG2 THR K  87     201.069 121.300 -56.110  1.00136.20       KS11
ATOM  44459  C   THR K  87     203.352 119.564 -56.514  1.00 81.76       KS11
ATOM  44460  O   THR K  87     202.818 119.066 -55.528  1.00 81.76       KS11
ATOM  44461  N   GLY K  88     204.663 119.727 -56.637  1.00 68.04       KS11
ATOM  44462  CA  GLY K  88     205.567 119.341 -55.571  1.00 68.04       KS11
ATOM  44463  C   GLY K  88     206.452 120.516 -55.217  1.00 68.04       KS11
ATOM  44464  O   GLY K  88     206.254 121.619 -55.730  1.00 68.04       KS11
ATOM  44465  N   ALA K  89     207.421 120.297 -54.337  1.00 79.35       KS11
ATOM  44466  CA  ALA K  89     208.328 121.370 -53.955  1.00 79.35       KS11
ATOM  44467  CB  ALA K  89     208.962 121.067 -52.618  1.00 32.05       KS11
ATOM  44468  C   ALA K  89     209.399 121.481 -55.026  1.00 79.35       KS11
ATOM  44469  O   ALA K  89     209.505 120.625 -55.914  1.00 79.35       KS11
ATOM  44470  N   GLY K  90     210.198 122.534 -54.956  1.00 59.45       KS11
ATOM  44471  CA  GLY K  90     211.239 122.680 -55.951  1.00 59.45       KS11
ATOM  44472  C   GLY K  90     210.686 123.043 -57.312  1.00 59.45       KS11
ATOM  44473  O   GLY K  90     211.416 123.519 -58.178  1.00 59.45       KS11
ATOM  44474  N   ARG K  91     209.396 122.814 -57.512  1.00 39.05       KS11
ATOM  44475  CA  ARG K  91     208.787 123.163 -58.777  1.00 39.05       KS11
ATOM  44476  CB  ARG K  91     207.274 123.041 -58.706  1.00 71.22       KS11
ATOM  44477  CG  ARG K  91     206.639 123.206 -60.060  1.00 71.22       KS11
ATOM  44478  CD  ARG K  91     205.403 124.052 -59.993  1.00 71.22       KS11
ATOM  44479  NE  ARG K  91     204.517 123.598 -58.938  1.00 71.22       KS11
ATOM  44480  CZ  ARG K  91     203.282 124.046 -58.760  1.00 71.22       KS11
ATOM  44481  NH1 ARG K  91     202.784 124.960 -59.577  1.00 71.22       KS11
ATOM  44482  NH2 ARG K  91     202.549 123.589 -57.753  1.00 71.22       KS11
ATOM  44483  C   ARG K  91     209.148 124.609 -59.108  1.00 39.05       KS11
ATOM  44484  O   ARG K  91     210.093 124.874 -59.835  1.00 39.05       KS11
ATOM  44485  N   GLU K  92     208.396 125.546 -58.553  1.00 67.98       KS11
ATOM  44486  CA  GLU K  92     208.637 126.957 -58.809  1.00 67.98       KS11
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ATOM  44487  CB  GLU K  92     207.857 127.800 -57.804  1.00 81.51      KS11
ATOM  44488  CG  GLU K  92     207.254 129.054 -58.396  1.00 81.51      KS11
ATOM  44489  CD  GLU K  92     206.214 128.747 -59.456  1.00 81.51      KS11
ATOM  44490  OE1 GLU K  92     205.323 127.915 -59.180  1.00 81.51      KS11
ATOM  44491  OE2 GLU K  92     206.281 129.341 -60.558  1.00 81.51      KS11
ATOM  44492  C   GLU K  92     210.120 127.339 -58.755  1.00 67.98      KS11
ATOM  44493  O   GLU K  92     210.531 128.326 -59.366  1.00 67.98      KS11
ATOM  44494  N   GLN K  93     210.916 126.553 -58.036  1.00 51.03      KS11
ATOM  44495  CA  GLN K  93     212.345 126.827 -57.889  1.00 51.03      KS11
ATOM  44496  CB  GLN K  93     212.912 125.998 -56.735  1.00113.47      KS11
ATOM  44497  CG  GLN K  93     214.099 126.635 -56.050  1.00113.47      KS11
ATOM  44498  CD  GLN K  93     215.142 127.103 -57.036  1.00113.47      KS11
ATOM  44499  OE1 GLN K  93     215.613 126.326 -57.868  1.00113.47      KS11
ATOM  44500  NE2 GLN K  93     215.510 128.380 -56.954  1.00113.47      KS11
ATOM  44501  C   GLN K  93     213.121 126.532 -59.177  1.00 51.03      KS11
ATOM  44502  O   GLN K  93     213.981 127.313 -59.597  1.00 51.03      KS11
ATOM  44503  N   ALA K  94     212.822 125.394 -59.793  1.00 52.35      KS11
ATOM  44504  CA  ALA K  94     213.466 125.012 -61.041  1.00 52.35      KS11
ATOM  44505  CB  ALA K  94     213.053 123.621 -61.427  1.00 24.36      KS11
ATOM  44506  C   ALA K  94     213.036 125.990 -62.122  1.00 52.35      KS11
ATOM  44507  O   ALA K  94     213.802 126.317 -63.020  1.00 52.35      KS11
ATOM  44508  N   ILE K  95     211.797 126.453 -62.041  1.00 62.39      KS11
ATOM  44509  CA  ILE K  95     211.315 127.399 -63.027  1.00 62.39      KS11
ATOM  44510  CB  ILE K  95     209.873 127.852 -62.739  1.00 64.13      KS11
ATOM  44511  CG2 ILE K  95     209.346 128.669 -63.904  1.00 64.13      KS11
ATOM  44512  CG1 ILE K  95     208.970 126.631 -62.574  1.00 64.13      KS11
ATOM  44513  CD1 ILE K  95     207.518 126.973 -62.334  1.00 64.13      KS11
ATOM  44514  C   ILE K  95     212.244 128.595 -62.968  1.00 62.39      KS11
ATOM  44515  O   ILE K  95     212.636 129.129 -63.997  1.00 62.39      KS11
ATOM  44516  N   ARG K  96     212.607 129.010 -61.762  1.00 83.58      KS11
ATOM  44517  CA  ARG K  96     213.518 130.135 -61.621  1.00 83.58      KS11
ATOM  44518  CB  ARG K  96     213.587 130.593 -60.160  1.00124.90      KS11
ATOM  44519  CG  ARG K  96     212.689 131.786 -59.866  1.00124.90      KS11
ATOM  44520  CD  ARG K  96     211.632 131.491 -58.813  1.00124.90      KS11
ATOM  44521  NE  ARG K  96     212.206 131.295 -57.485  1.00124.90      KS11
ATOM  44522  CZ  ARG K  96     211.491 131.212 -56.366  1.00124.90      KS11
ATOM  44523  NH1 ARG K  96     210.168 131.309 -56.407  1.00124.90      KS11
ATOM  44524  NH2 ARG K  96     212.100 131.032 -55.201  1.00124.90      KS11
ATOM  44525  C   ARG K  96     214.900 129.721 -62.122  1.00 83.58      KS11
ATOM  44526  O   ARG K  96     215.602 130.503 -62.767  1.00 83.58      KS11
ATOM  44527  N   ALA K  97     215.278 128.480 -61.835  1.00 59.13      KS11
ATOM  44528  CA  ALA K  97     216.569 127.961 -62.267  1.00 59.13      KS11
ATOM  44529  CB  ALA K  97     216.686 126.491 -61.909  1.00136.72      KS11
ATOM  44530  C   ALA K  97     216.711 128.147 -63.769  1.00 59.13      KS11
ATOM  44531  O   ALA K  97     217.532 128.937 -64.219  1.00 59.13      KS11
ATOM  44532  N   LEU K  98     215.910 127.423 -64.543  1.00 65.92      KS11
ATOM  44533  CA  LEU K  98     215.968 127.544 -65.991  1.00 65.92      KS11
ATOM  44534  CB  LEU K  98     214.704 127.002 -66.639  1.00 52.49      KS11
ATOM  44535  CG  LEU K  98     214.507 125.500 -66.620  1.00 52.49      KS11
ATOM  44536  CD1 LEU K  98     213.292 125.159 -67.474  1.00 52.49      KS11
ATOM  44537  CD2 LEU K  98     215.760 124.812 -67.142  1.00 52.49      KS11
ATOM  44538  C   LEU K  98     216.131 128.988 -66.434  1.00 65.92      KS11
ATOM  44539  O   LEU K  98     216.784 129.259 -67.441  1.00 65.92      KS11
ATOM  44540  N   GLN K  99     215.529 129.914 -65.695  1.00 61.09      KS11
ATOM  44541  CA  GLN K  99     215.619 131.321 -66.050  1.00 61.09      KS11
ATOM  44542  CB  GLN K  99     214.590 132.123 -65.265  1.00 77.77      KS11
ATOM  44543  CG  GLN K  99     213.171 131.677 -65.530  1.00 77.77      KS11
ATOM  44544  CD  GLN K  99     212.141 132.549 -64.843  1.00 77.77      KS11
ATOM  44545  OE1 GLN K  99     212.176 132.731 -63.626  1.00 77.77      KS11
ATOM  44546  NE2 GLN K  99     211.212 133.090 -65.622  1.00 77.77      KS11
ATOM  44547  C   GLN K  99     217.017 131.871 -65.798  1.00 61.09      KS11
ATOM  44548  O   GLN K  99     217.564 132.609 -66.625  1.00 61.09      KS11
ATOM  44549  N   ALA K 100     217.599 131.509 -64.661  1.00 75.63      KS11
ATOM  44550  CA  ALA K 100     218.942 131.966 -64.324  1.00 75.63      KS11
ATOM  44551  CB  ALA K 100     219.209 131.751 -62.842  1.00 88.33      KS11
ATOM  44552  C   ALA K 100     219.987 131.228 -65.166  1.00 75.63      KS11
ATOM  44553  O   ALA K 100     221.156 131.617 -65.214  1.00 75.63      KS11
ATOM  44554  N   SER K 101     219.560 130.159 -65.830  1.00 77.85      KS11
ATOM  44555  CA  SER K 101     220.456 129.383 -66.677  1.00 77.85      KS11
ATOM  44556  CB  SER K 101     219.826 128.037 -67.030  1.00 90.24      KS11
ATOM  44557  OG  SER K 101     218.895 128.177 -68.094  1.00 90.24      KS11
ATOM  44558  C   SER K 101     220.703 130.152 -67.968  1.00 77.85      KS11
ATOM  44559  O   SER K 101     220.234 131.278 -68.137  1.00 77.85      KS11
ATOM  44560  N   GLY K 102     221.436 129.534 -68.883  1.00 71.00      KS11
ATOM  44561  CA  GLY K 102     221.694 130.183 -70.149  1.00 71.00      KS11
ATOM  44562  C   GLY K 102     220.379 130.324 -70.887  1.00 71.00      KS11
ATOM  44563  O   GLY K 102     219.943 131.434 -71.199  1.00 71.00      KS11
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ATOM  44564  N   LEU K 103     219.743 129.185 -71.150  1.00 72.81       KS11
ATOM  44565  CA  LEU K 103     218.469 129.122 -71.854  1.00 72.81       KS11
ATOM  44566  CB  LEU K 103     217.748 127.835 -71.497  1.00 58.63       KS11
ATOM  44567  CG  LEU K 103     218.541 126.569 -71.784  1.00 58.63       KS11
ATOM  44568  CD1 LEU K 103     218.095 125.436 -70.865  1.00 58.63       KS11
ATOM  44569  CD2 LEU K 103     218.368 126.216 -73.248  1.00 58.63       KS11
ATOM  44570  C   LEU K 103     217.563 130.279 -71.506  1.00 72.81       KS11
ATOM  44571  O   LEU K 103     217.494 130.708 -70.354  1.00 72.81       KS11
ATOM  44572  N   GLN K 104     216.865 130.782 -72.514  1.00 60.59       KS11
ATOM  44573  CA  GLN K 104     215.935 131.878 -72.323  1.00 60.59       KS11
ATOM  44574  CB  GLN K 104     215.919 132.770 -73.560  1.00125.41       KS11
ATOM  44575  CG  GLN K 104     214.871 133.851 -73.525  1.00125.41       KS11
ATOM  44576  CD  GLN K 104     214.877 134.697 -74.780  1.00125.41       KS11
ATOM  44577  OE1 GLN K 104     214.741 134.183 -75.893  1.00125.41       KS11
ATOM  44578  NE2 GLN K 104     215.035 136.006 -74.608  1.00125.41       KS11
ATOM  44579  C   GLN K 104     214.575 131.231 -72.124  1.00 60.59       KS11
ATOM  44580  O   GLN K 104     214.168 130.374 -72.905  1.00 60.59       KS11
ATOM  44581  N   VAL K 105     213.880 131.615 -71.065  1.00 55.29       KS11
ATOM  44582  CA  VAL K 105     212.569 131.048 -70.801  1.00 55.29       KS11
ATOM  44583  CB  VAL K 105     212.235 131.108 -69.306  1.00103.53       KS11
ATOM  44584  CG1 VAL K 105     210.866 130.504 -69.056  1.00103.53       KS11
ATOM  44585  CG2 VAL K 105     213.304 130.370 -68.513  1.00103.53       KS11
ATOM  44586  C   VAL K 105     211.537 131.845 -71.580  1.00 55.29       KS11
ATOM  44587  O   VAL K 105     211.049 132.879 -71.114  1.00 55.29       KS11
ATOM  44588  N   LYS K 106     211.218 131.366 -72.779  1.00 62.12       KS11
ATOM  44589  CA  LYS K 106     210.253 132.037 -73.638  1.00 62.12       KS11
ATOM  44590  CB  LYS K 106     210.376 131.528 -75.078  1.00171.34       KS11
ATOM  44591  CG  LYS K 106     211.258 132.397 -75.963  1.00171.34       KS11
ATOM  44592  CD  LYS K 106     210.684 133.810 -76.080  1.00171.34       KS11
ATOM  44593  CE  LYS K 106     211.572 134.727 -76.916  1.00171.34       KS11
ATOM  44594  NZ  LYS K 106     211.009 136.107 -77.034  1.00171.34       KS11
ATOM  44595  C   LYS K 106     208.811 131.907 -73.174  1.00 62.12       KS11
ATOM  44596  O   LYS K 106     207.944 132.609 -73.682  1.00 62.12       KS11
ATOM  44597  N   SER K 107     208.548 131.023 -72.213  1.00 61.89       KS11
ATOM  44598  CA  SER K 107     207.186 130.833 -71.712  1.00 61.89       KS11
ATOM  44599  CB  SER K 107     206.282 130.253 -72.804  1.00 59.74       KS11
ATOM  44600  OG  SER K 107     206.370 128.832 -72.838  1.00 59.74       KS11
ATOM  44601  C   SER K 107     207.137 129.889 -70.524  1.00 61.89       KS11
ATOM  44602  O   SER K 107     208.126 129.226 -70.201  1.00 61.89       KS11
ATOM  44603  N   ILE K 108     205.973 129.827 -69.880  1.00 58.90       KS11
ATOM  44604  CA  ILE K 108     205.773 128.932 -68.746  1.00 58.90       KS11
ATOM  44605  CB  ILE K 108     206.132 129.621 -67.425  1.00 23.73       KS11
ATOM  44606  CG2 ILE K 108     206.006 128.635 -66.281  1.00 23.73       KS11
ATOM  44607  CG1 ILE K 108     207.576 130.120 -67.494  1.00 23.73       KS11
ATOM  44608  CD1 ILE K 108     208.086 130.801 -66.238  1.00 23.73       KS11
ATOM  44609  C   ILE K 108     204.329 128.437 -68.715  1.00 58.90       KS11
ATOM  44610  O   ILE K 108     203.398 129.211 -68.876  1.00 58.90       KS11
ATOM  44611  N   VAL K 109     204.153 127.138 -68.511  1.00 49.02       KS11
ATOM  44612  CA  VAL K 109     202.825 126.551 -68.507  1.00 49.02       KS11
ATOM  44613  CB  VAL K 109     202.453 126.086 -69.915  1.00 33.11       KS11
ATOM  44614  CG1 VAL K 109     201.237 125.187 -69.869  1.00 33.11       KS11
ATOM  44615  CG2 VAL K 109     202.170 127.280 -70.778  1.00 33.11       KS11
ATOM  44616  C   VAL K 109     202.632 125.361 -67.580  1.00 49.02       KS11
ATOM  44617  O   VAL K 109     203.301 124.341 -67.724  1.00 49.02       KS11
ATOM  44618  N   ASP K 110     201.711 125.480 -66.631  1.00 55.89       KS11
ATOM  44619  CA  ASP K 110     201.449 124.355 -65.756  1.00 55.89       KS11
ATOM  44620  CB  ASP K 110     200.823 124.800 -64.431  1.00 97.20       KS11
ATOM  44621  CG  ASP K 110     200.642 123.642 -63.449  1.00 97.20       KS11
ATOM  44622  OD1 ASP K 110     199.896 122.691 -63.778  1.00 97.20       KS11
ATOM  44623  OD2 ASP K 110     201.246 123.678 -62.352  1.00 97.20       KS11
ATOM  44624  C   ASP K 110     200.468 123.498 -66.539  1.00 55.89       KS11
ATOM  44625  O   ASP K 110     199.457 123.997 -67.032  1.00 55.89       KS11
ATOM  44626  N   ASP K 111     200.792 122.216 -66.675  1.00 66.31       KS11
ATOM  44627  CA  ASP K 111     199.954 121.275 -67.399  1.00 66.31       KS11
ATOM  44628  CB  ASP K 111     200.567 120.961 -68.764  1.00112.55       KS11
ATOM  44629  CG  ASP K 111     199.674 120.078 -69.616  1.00112.55       KS11
ATOM  44630  OD1 ASP K 111     198.552 120.513 -69.955  1.00112.55       KS11
ATOM  44631  OD2 ASP K 111     200.091 118.946 -69.943  1.00112.55       KS11
ATOM  44632  C   ASP K 111     199.795 119.988 -66.595  1.00 66.31       KS11
ATOM  44633  O   ASP K 111     199.622 118.907 -67.158  1.00 66.31       KS11
ATOM  44634  N   THR K 112     199.867 120.105 -65.274  1.00 40.30       KS11
ATOM  44635  CA  THR K 112     199.705 118.943 -64.407  1.00 40.30       KS11
ATOM  44636  CB  THR K 112     199.587 119.355 -62.918  1.00 37.04       KS11
ATOM  44637  OG1 THR K 112     200.801 119.975 -62.475  1.00 37.04       KS11
ATOM  44638  CG2 THR K 112     199.292 118.141 -62.059  1.00 37.04       KS11
ATOM  44639  C   THR K 112     198.405 118.258 -64.807  1.00 40.30       KS11
ATOM  44640  O   THR K 112     197.347 118.880 -64.807  1.00 40.30       KS11
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ATOM  44641  N   PRO K 113     198.456 116.975 -65.166  1.00 43.98      KS11
ATOM  44642  CD  PRO K 113     199.584 116.055 -65.330  1.00 47.87      KS11
ATOM  44643  CA  PRO K 113     197.208 116.320 -65.547  1.00 43.98      KS11
ATOM  44644  CB  PRO K 113     197.688 115.020 -66.167  1.00 47.87      KS11
ATOM  44645  CG  PRO K 113     198.880 114.722 -65.371  1.00 47.87      KS11
ATOM  44646  C   PRO K 113     196.285 116.084 -64.357  1.00 43.98      KS11
ATOM  44647  O   PRO K 113     196.740 115.972 -63.217  1.00 43.98      KS11
ATOM  44648  N   VAL K 114     194.986 116.016 -64.639  1.00 53.06      KS11
ATOM  44649  CA  VAL K 114     193.970 115.783 -63.622  1.00 53.06      KS11
ATOM  44650  CB  VAL K 114     193.475 117.106 -63.015  1.00 64.39      KS11
ATOM  44651  CG1 VAL K 114     193.135 118.082 -64.115  1.00 64.39      KS11
ATOM  44652  CG2 VAL K 114     192.253 116.855 -62.148  1.00 64.39      KS11
ATOM  44653  C   VAL K 114     192.783 115.047 -64.232  1.00 53.06      KS11
ATOM  44654  O   VAL K 114     192.232 115.459 -65.244  1.00 53.06      KS11
ATOM  44655  N   PRO K 115     192.375 113.938 -63.618  1.00 42.40      KS11
ATOM  44656  CD  PRO K 115     192.966 113.327 -62.431  1.00 40.42      KS11
ATOM  44657  CA  PRO K 115     191.257 113.130 -64.086  1.00 42.40      KS11
ATOM  44658  CB  PRO K 115     191.275 111.931 -63.165  1.00 40.42      KS11
ATOM  44659  CG  PRO K 115     192.647 111.898 -62.666  1.00 40.42      KS11
ATOM  44660  C   PRO K 115     189.996 113.875 -63.862  1.00 42.40      KS11
ATOM  44661  O   PRO K 115     189.873 114.557 -62.851  1.00 42.40      KS11
ATOM  44662  N   HIS K 116     189.059 113.742 -64.793  1.00 45.85      KS11
ATOM  44663  CA  HIS K 116     187.755 114.353 -64.626  1.00 45.85      KS11
ATOM  44664  CB  HIS K 116     187.086 114.551 -65.978  1.00 55.83      KS11
ATOM  44665  CG  HIS K 116     187.742 115.597 -66.826  1.00 55.83      KS11
ATOM  44666  CD2 HIS K 116     187.637 115.872 -68.149  1.00 55.83      KS11
ATOM  44667  ND1 HIS K 116     188.565 116.571 -66.299  1.00 55.83      KS11
ATOM  44668  CE1 HIS K 116     188.933 117.402 -67.258  1.00 55.83      KS11
ATOM  44669  NE2 HIS K 116     188.383 117.001 -68.389  1.00 55.83      KS11
ATOM  44670  C   HIS K 116     187.007 113.311 -63.791  1.00 45.85      KS11
ATOM  44671  O   HIS K 116     185.805 113.143 -63.919  1.00 45.85      KS11
ATOM  44672  N   ASN K 117     187.785 112.609 -62.958  1.00 55.35      KS11
ATOM  44673  CA  ASN K 117     187.361 111.546 -62.041  1.00 55.35      KS11
ATOM  44674  CB  ASN K 117     186.034 111.898 -61.432  1.00 68.71      KS11
ATOM  44675  CG  ASN K 117     186.196 112.863 -60.326  1.00 68.71      KS11
ATOM  44676  OD1 ASN K 117     186.605 112.481 -59.228  1.00 68.71      KS11
ATOM  44677  ND2 ASN K 117     185.928 114.137 -60.598  1.00 68.71      KS11
ATOM  44678  C   ASN K 117     187.319 110.160 -62.629  1.00 55.35      KS11
ATOM  44679  O   ASN K 117     186.259 109.667 -62.984  1.00 55.35      KS11
ATOM  44680  N   GLY K 118     188.481 109.519 -62.692  1.00 67.66      KS11
ATOM  44681  CA  GLY K 118     188.557 108.203 -63.289  1.00 67.66      KS11
ATOM  44682  C   GLY K 118     188.854 107.004 -62.413  1.00 67.66      KS11
ATOM  44683  O   GLY K 118     187.977 106.167 -62.206  1.00 67.66      KS11
ATOM  44684  N   CYS K 119     190.076 106.899 -61.897  1.00 23.55      KS11
ATOM  44685  CA  CYS K 119     190.436 105.740 -61.078  1.00 23.55      KS11
ATOM  44686  CB  CYS K 119     191.785 105.173 -61.551  1.00 53.73      KS11
ATOM  44687  SG  CYS K 119     191.883 104.740 -63.314  1.00 53.73      KS11
ATOM  44688  C   CYS K 119     190.494 105.971 -59.568  1.00 23.55      KS11
ATOM  44689  O   CYS K 119     191.024 106.979 -59.105  1.00 23.55      KS11
ATOM  44690  N   ARG K 120     189.959 105.015 -58.805  1.00 23.57      KS11
ATOM  44691  CA  ARG K 120     189.995 105.120 -57.355  1.00 23.57      KS11
ATOM  44692  CB  ARG K 120     189.403 103.874 -56.663  1.00 29.73      KS11
ATOM  44693  CG  ARG K 120     189.855 103.765 -55.185  1.00 29.73      KS11
ATOM  44694  CD  ARG K 120     189.116 102.762 -54.305  1.00 29.73      KS11
ATOM  44695  NE  ARG K 120     187.887 103.349 -53.783  1.00 29.73      KS11
ATOM  44696  CZ  ARG K 120     187.341 103.074 -52.597  1.00 29.73      KS11
ATOM  44697  NH1 ARG K 120     187.888 102.212 -51.754  1.00 29.73      KS11
ATOM  44698  NH2 ARG K 120     186.223 103.676 -52.246  1.00 29.73      KS11
ATOM  44699  C   ARG K 120     191.451 105.275 -56.947  1.00 23.57      KS11
ATOM  44700  O   ARG K 120     192.278 104.385 -57.186  1.00 23.57      KS11
ATOM  44701  N   PRO K 121     191.790 106.423 -56.348  1.00 16.98      KS11
ATOM  44702  CD  PRO K 121     190.938 107.596 -56.162  1.00 32.25      KS11
ATOM  44703  CA  PRO K 121     193.145 106.717 -55.894  1.00 16.98      KS11
ATOM  44704  CB  PRO K 121     193.042 108.157 -55.422  1.00 32.25      KS11
ATOM  44705  CG  PRO K 121     191.650 108.295 -55.060  1.00 32.25      KS11
ATOM  44706  C   PRO K 121     193.571 105.780 -54.794  1.00 16.98      KS11
ATOM  44707  O   PRO K 121     192.741 105.106 -54.198  1.00 16.98      KS11
ATOM  44708  N   LYS K 122     194.869 105.714 -54.536  1.00 20.85      KS11
ATOM  44709  CA  LYS K 122     195.352 104.827 -53.486  1.00 20.85      KS11
ATOM  44710  CB  LYS K 122     196.881 104.794 -53.468  1.00 61.51      KS11
ATOM  44711  CG  LYS K 122     197.520 104.616 -54.833  1.00 61.51      KS11
ATOM  44712  CD  LYS K 122     199.025 104.443 -54.721  1.00 61.51      KS11
ATOM  44713  CE  LYS K 122     199.369 103.194 -53.935  1.00 61.51      KS11
ATOM  44714  NZ  LYS K 122     200.838 103.024 -53.763  1.00 61.51      KS11
ATOM  44715  C   LYS K 122     194.839 105.365 -52.159  1.00 20.85      KS11
ATOM  44716  O   LYS K 122     194.534 106.555 -52.040  1.00 20.85      KS11
ATOM  44717  N   LYS K 123     194.728 104.490 -51.171  1.00 32.55      KS11
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ATOM  44718  CA  LYS K 123     194.267 104.905 -49.856  1.00 32.55       KS11
ATOM  44719  CB  LYS K 123     194.519 103.781 -48.860  1.00 30.66       KS11
ATOM  44720  CG  LYS K 123     194.352 104.127 -47.404  1.00 30.66       KS11
ATOM  44721  CD  LYS K 123     194.354 102.816 -46.637  1.00 30.66       KS11
ATOM  44722  CE  LYS K 123     194.758 102.949 -45.165  1.00 30.66       KS11
ATOM  44723  NZ  LYS K 123     195.167 101.604 -44.582  1.00 30.66       KS11
ATOM  44724  C   LYS K 123     195.045 106.158 -49.473  1.00 32.55       KS11
ATOM  44725  O   LYS K 123     194.488 107.119 -48.952  1.00 32.55       KS11
ATOM  44726  N   LYS K 124     196.341 106.144 -49.754  1.00 50.80       KS11
ATOM  44727  CA  LYS K 124     197.202 107.272 -49.455  1.00 50.80       KS11
ATOM  44728  CB  LYS K 124     198.571 107.032 -50.093  1.00 96.27       KS11
ATOM  44729  CG  LYS K 124     199.520 108.221 -50.135  1.00 96.27       KS11
ATOM  44730  CD  LYS K 124     200.796 107.823 -50.878  1.00 96.27       KS11
ATOM  44731  CE  LYS K 124     201.692 109.011 -51.188  1.00 96.27       KS11
ATOM  44732  NZ  LYS K 124     202.773 108.649 -52.154  1.00 96.27       KS11
ATOM  44733  C   LYS K 124     196.596 108.567 -49.979  1.00 50.80       KS11
ATOM  44734  O   LYS K 124     196.779 109.620 -49.377  1.00 50.80       KS11
ATOM  44735  N   PHE K 125     195.856 108.493 -51.083  1.00 51.70       KS11
ATOM  44736  CA  PHE K 125     195.276 109.694 -51.677  1.00 51.70       KS11
ATOM  44737  CB  PHE K 125     195.672 109.805 -53.147  1.00 67.74       KS11
ATOM  44738  CG  PHE K 125     197.156 109.901 -53.368  1.00 67.74       KS11
ATOM  44739  CD1 PHE K 125     197.945 108.759 -53.398  1.00 67.74       KS11
ATOM  44740  CD2 PHE K 125     197.770 111.140 -53.524  1.00 67.74       KS11
ATOM  44741  CE1 PHE K 125     199.319 108.849 -53.579  1.00 67.74       KS11
ATOM  44742  CE2 PHE K 125     199.146 111.240 -53.705  1.00 67.74       KS11
ATOM  44743  CZ  PHE K 125     199.920 110.093 -53.733  1.00 67.74       KS11
ATOM  44744  C   PHE K 125     193.778 109.846 -51.569  1.00 51.70       KS11
ATOM  44745  O   PHE K 125     193.231 110.863 -51.985  1.00 51.70       KS11
ATOM  44746  N   ARG K 126     193.105 108.846 -51.022  1.00 70.13       KS11
ATOM  44747  CA  ARG K 126     191.663 108.930 -50.874  1.00 70.13       KS11
ATOM  44748  CB  ARG K 126     191.057 107.542 -50.774  1.00 53.05       KS11
ATOM  44749  CG  ARG K 126     191.019 106.804 -52.065  1.00 53.05       KS11
ATOM  44750  CD  ARG K 126     190.259 105.490 -51.919  1.00 53.05       KS11
ATOM  44751  NE  ARG K 126     188.801 105.647 -51.807  1.00 53.05       KS11
ATOM  44752  CZ  ARG K 126     188.144 105.989 -50.700  1.00 53.05       KS11
ATOM  44753  NH1 ARG K 126     188.792 106.226 -49.568  1.00 53.05       KS11
ATOM  44754  NH2 ARG K 126     186.825 106.072 -50.724  1.00 53.05       KS11
ATOM  44755  C   ARG K 126     191.275 109.727 -49.639  1.00 70.13       KS11
ATOM  44756  O   ARG K 126     192.102 110.427 -49.058  1.00 70.13       KS11
ATOM  44757  N   LYS K 127     190.010 109.590 -49.244  1.00191.86       KS11
ATOM  44758  CA  LYS K 127     189.445 110.284 -48.089  1.00191.86       KS11
ATOM  44759  CB  LYS K 127     190.422 110.282 -46.906  1.00159.97       KS11
ATOM  44760  CG  LYS K 127     190.516 108.957 -46.164  1.00159.97       KS11
ATOM  44761  CD  LYS K 127     189.177 108.583 -45.537  1.00159.97       KS11
ATOM  44762  CE  LYS K 127     189.272 107.304 -44.715  1.00159.97       KS11
ATOM  44763  NZ  LYS K 127     190.167 107.456 -43.535  1.00159.97       KS11
ATOM  44764  C   LYS K 127     189.088 111.716 -48.449  1.00191.86       KS11
ATOM  44765  O   LYS K 127     188.553 112.455 -47.624  1.00191.86       KS11
ATOM  44766  N   ALA K 128     189.381 112.101 -49.689  1.00200.96       KS11
ATOM  44767  CA  ALA K 128     189.101 113.453 -50.160  1.00200.96       KS11
ATOM  44768  CB  ALA K 128     190.341 114.034 -50.833  1.00101.09       KS11
ATOM  44769  C   ALA K 128     187.915 113.498 -51.123  1.00200.96       KS11
ATOM  44770  O   ALA K 128     187.791 112.651 -52.011  1.00200.96       KS11
ATOM  44771  N   SER K 129     187.050 114.494 -50.935  1.00200.96       KS11
ATOM  44772  CA  SER K 129     185.865 114.685 -51.771  1.00200.96       KS11
ATOM  44773  CB  SER K 129     184.976 113.437 -51.730  1.00200.96       KS11
ATOM  44774  OG  SER K 129     183.837 113.588 -52.563  1.00200.96       KS11
ATOM  44775  C   SER K 129     185.056 115.903 -51.311  1.00200.96       KS11
ATOM  44776  O   SER K 129     185.470 116.554 -50.326  1.00200.96       KS11
ATOM  44777  OXT SER K 129     184.016 116.192 -51.942  1.00200.96       KS11
TER   44777       SER K 129                                              KS11
ATOM  44778  CB  PRO L   5     148.947 101.480 -25.793  1.00 31.25       LS12
ATOM  44779  CG  PRO L   5     149.872 101.394 -24.544  1.00 31.25       LS12
ATOM  44780  C   PRO L   5     147.759 103.558 -26.375  1.00 40.11       LS12
ATOM  44781  O   PRO L   5     147.299 104.246 -25.473  1.00 40.11       LS12
ATOM  44782  N   PRO L   5     149.830 103.637 -25.159  1.00 40.11       LS12
ATOM  44783  CD  PRO L   5     149.905 102.783 -23.960  1.00 31.25       LS12
ATOM  44784  CA  PRO L   5     149.117 102.922 -26.233  1.00 40.11       LS12
ATOM  44785  N   THR L   6     147.116 103.327 -27.507  1.00 20.72       LS12
ATOM  44786  CA  THR L   6     145.794 103.868 -27.728  1.00 20.72       LS12
ATOM  44787  CB  THR L   6     145.434 103.903 -29.211  1.00  9.67       LS12
ATOM  44788  OG1 THR L   6     145.333 102.562 -29.701  1.00  9.67       LS12
ATOM  44789  CG2 THR L   6     146.464 104.657 -29.997  1.00  9.67       LS12
ATOM  44790  C   THR L   6     144.797 102.942 -27.050  1.00 20.72       LS12
ATOM  44791  O   THR L   6     145.097 101.783 -26.777  1.00 20.72       LS12
ATOM  44792  N   ILE L   7     143.607 103.445 -26.776  1.00 32.61       LS12
ATOM  44793  CA  ILE L   7     142.609 102.606 -26.159  1.00 32.61       LS12
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ATOM  44794  CB  ILE L   7     141.282 103.342 -26.052  1.00  9.81       LS12
ATOM  44795  CG2 ILE L   7     140.162 102.353 -25.816  1.00  9.81       LS12
ATOM  44796  CG1 ILE L   7     141.363 104.383 -24.942  1.00  9.81       LS12
ATOM  44797  CD1 ILE L   7     141.674 103.801 -23.591  1.00  9.81       LS12
ATOM  44798  C   ILE L   7     142.409 101.337 -26.981  1.00 32.61       LS12
ATOM  44799  O   ILE L   7     142.388 100.239 -26.436  1.00 32.61       LS12
ATOM  44800  N   ASN L   8     142.271 101.483 -28.293  1.00 29.11       LS12
ATOM  44801  CA  ASN L   8     142.057 100.324 -29.148  1.00 29.11       LS12
ATOM  44802  CB  ASN L   8     142.009 100.734 -30.625  1.00 35.43       LS12
ATOM  44803  CG  ASN L   8     141.233  99.744 -31.492  1.00 35.43       LS12
ATOM  44804  OD1 ASN L   8     140.031  99.591 -31.345  1.00 35.43       LS12
ATOM  44805  ND2 ASN L   8     141.924  99.080 -32.400  1.00 35.43       LS12
ATOM  44806  C   ASN L   8     143.185  99.333 -28.931  1.00 29.11       LS12
ATOM  44807  O   ASN L   8     142.940  98.134 -28.823  1.00 29.11       LS12
ATOM  44808  N   GLN L   9     144.422  99.824 -28.867  1.00 23.23       LS12
ATOM  44809  CA  GLN L   9     145.566  98.931 -28.654  1.00 23.23       LS12
ATOM  44810  CB  GLN L   9     146.898  99.702 -28.734  1.00 33.79       LS12
ATOM  44811  CG  GLN L   9     147.196 100.254 -30.145  1.00 33.79       LS12
ATOM  44812  CD  GLN L   9     148.557 100.946 -30.280  1.00 33.79       LS12
ATOM  44813  OE1 GLN L   9     148.862 101.924 -29.589  1.00 33.79       LS12
ATOM  44814  NE2 GLN L   9     149.374 100.436 -31.187  1.00 33.79       LS12
ATOM  44815  C   GLN L   9     145.423  98.228 -27.310  1.00 23.23       LS12
ATOM  44816  O   GLN L   9     145.646  97.032 -27.206  1.00 23.23       LS12
ATOM  44817  N   LEU L  10     145.024  98.968 -26.285  1.00 27.50       LS12
ATOM  44818  CA  LEU L  10     144.850  98.376 -24.974  1.00 27.50       LS12
ATOM  44819  CB  LEU L  10     144.471  99.449 -23.958  1.00 31.04       LS12
ATOM  44820  CG  LEU L  10     145.612 100.404 -23.589  1.00 31.04       LS12
ATOM  44821  CD1 LEU L  10     145.081 101.737 -23.148  1.00 31.04       LS12
ATOM  44822  CD2 LEU L  10     146.449  99.790 -22.486  1.00 31.04       LS12
ATOM  44823  C   LEU L  10     143.766  97.324 -25.080  1.00 27.50       LS12
ATOM  44824  O   LEU L  10     143.835  96.270 -24.463  1.00 27.50       LS12
ATOM  44825  N   VAL L  11     142.757  97.587 -25.880  1.00 37.51       LS12
ATOM  44826  CA  VAL L  11     141.707  96.599 -26.014  1.00 37.51       LS12
ATOM  44827  CB  VAL L  11     140.538  97.159 -26.831  1.00 19.42       LS12
ATOM  44828  CG1 VAL L  11     139.494  96.093 -27.075  1.00 19.42       LS12
ATOM  44829  CG2 VAL L  11     139.949  98.328 -26.090  1.00 19.42       LS12
ATOM  44830  C   VAL L  11     142.268  95.351 -26.688  1.00 37.51       LS12
ATOM  44831  O   VAL L  11     141.930  94.230 -26.322  1.00 37.51       LS12
ATOM  44832  N   ARG L  12     143.142  95.554 -27.661  1.00 33.67       LS12
ATOM  44833  CA  ARG L  12     143.738  94.453 -28.386  1.00 33.67       LS12
ATOM  44834  CB  ARG L  12     144.393  94.970 -29.651  1.00 33.93       LS12
ATOM  44835  CG  ARG L  12     143.474  95.538 -30.660  1.00 33.93       LS12
ATOM  44836  CD  ARG L  12     144.161  95.447 -32.006  1.00 33.93       LS12
ATOM  44837  NE  ARG L  12     145.181  96.473 -32.181  1.00 33.93       LS12
ATOM  44838  CZ  ARG L  12     146.361  96.277 -32.762  1.00 33.93       LS12
ATOM  44839  NH1 ARG L  12     146.707  95.085 -33.226  1.00 33.93       LS12
ATOM  44840  NH2 ARG L  12     147.187  97.297 -32.909  1.00 33.93       LS12
ATOM  44841  C   ARG L  12     144.791  93.641 -27.614  1.00 33.67       LS12
ATOM  44842  O   ARG L  12     144.813  92.405 -27.708  1.00 33.67       LS12
ATOM  44843  N   LYS L  13     145.673  94.322 -26.876  1.00 26.66       LS12
ATOM  44844  CA  LYS L  13     146.728  93.636 -26.148  1.00 26.66       LS12
ATOM  44845  CB  LYS L  13     148.083  94.128 -26.626  1.00 61.69       LS12
ATOM  44846  CG  LYS L  13     148.264  93.942 -28.107  1.00 61.69       LS12
ATOM  44847  CD  LYS L  13     149.702  94.170 -28.545  1.00 61.69       LS12
ATOM  44848  CE  LYS L  13     149.905  93.759 -30.011  1.00 61.69       LS12
ATOM  44849  NZ  LYS L  13     149.581  92.312 -30.267  1.00 61.69       LS12
ATOM  44850  C   LYS L  13     146.652  93.734 -24.634  1.00 26.66       LS12
ATOM  44851  O   LYS L  13     147.085  92.823 -23.933  1.00 26.66       LS12
ATOM  44852  N   GLY L  14     146.108  94.819 -24.111  1.00 24.55       LS12
ATOM  44853  CA  GLY L  14     146.019  94.946 -22.666  1.00 24.55       LS12
ATOM  44854  C   GLY L  14     147.369  95.081 -21.987  1.00 24.55       LS12
ATOM  44855  O   GLY L  14     148.417  94.971 -22.623  1.00 24.55       LS12
ATOM  44856  N   ARG L  15     147.361  95.328 -20.687  1.00 41.50       LS12
ATOM  44857  CA  ARG L  15     148.612  95.474 -19.975  1.00 41.50       LS12
ATOM  44858  CB  ARG L  15     148.435  96.475 -18.861  1.00 33.23       LS12
ATOM  44859  CG  ARG L  15     147.937  97.814 -19.343  1.00 33.23       LS12
ATOM  44860  CD  ARG L  15     149.007  98.586 -20.056  1.00 33.23       LS12
ATOM  44861  NE  ARG L  15     148.628  99.991 -20.171  1.00 33.23       LS12
ATOM  44862  CZ  ARG L  15     149.473 100.983 -20.438  1.00 33.23       LS12
ATOM  44863  NH1 ARG L  15     150.762 100.741 -20.623  1.00 33.23       LS12
ATOM  44864  NH2 ARG L  15     149.025 102.227 -20.516  1.00 33.23       LS12
ATOM  44865  C   ARG L  15     149.069  94.126 -19.431  1.00 41.50       LS12
ATOM  44866  O   ARG L  15     148.250  93.268 -19.128  1.00 41.50       LS12
ATOM  44867  N   GLU L  16     150.378  93.942 -19.314  1.00 32.69       LS12
ATOM  44868  CA  GLU L  16     150.952  92.689 -18.849  1.00 32.69       LS12
ATOM  44869  CB  GLU L  16     152.274  92.460 -19.579  1.00137.27       LS12
ATOM  44870  CG  GLU L  16     153.027  91.215 -19.188  1.00137.27       LS12
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ATOM  44871  CD  GLU L  16     154.292  91.044 -20.006  1.00137.27      LS12
ATOM  44872  OE1 GLU L  16     155.172  91.932 -19.945  1.00137.27      LS12
ATOM  44873  OE2 GLU L  16     154.403  90.023 -20.715  1.00137.27      LS12
ATOM  44874  C   GLU L  16     151.174  92.707 -17.350  1.00 32.69      LS12
ATOM  44875  O   GLU L  16     151.937  93.533 -16.846  1.00 32.69      LS12
ATOM  44876  N   LYS L  17     150.524  91.793 -16.632  1.00 44.61      LS12
ATOM  44877  CA  LYS L  17     150.675  91.735 -15.178  1.00 44.61      LS12
ATOM  44878  CB  LYS L  17     149.646  90.770 -14.580  1.00 83.13      LS12
ATOM  44879  CG  LYS L  17     148.209  91.115 -14.963  1.00 83.13      LS12
ATOM  44880  CD  LYS L  17     147.174  90.514 -14.020  1.00 83.13      LS12
ATOM  44881  CE  LYS L  17     147.214  91.190 -12.662  1.00 83.13      LS12
ATOM  44882  NZ  LYS L  17     147.003  92.666 -12.753  1.00 83.13      LS12
ATOM  44883  C   LYS L  17     152.093  91.347 -14.748  1.00 44.61      LS12
ATOM  44884  O   LYS L  17     152.821  90.684 -15.484  1.00 44.61      LS12
ATOM  44885  N   VAL L  18     152.491  91.763 -13.552  1.00106.62      LS12
ATOM  44886  CA  VAL L  18     153.835  91.467 -13.060  1.00106.62      LS12
ATOM  44887  CB  VAL L  18     154.285  92.527 -12.030  1.00120.64      LS12
ATOM  44888  CG1 VAL L  18     155.712  92.255 -11.583  1.00120.64      LS12
ATOM  44889  CG2 VAL L  18     154.171  93.914 -12.633  1.00120.64      LS12
ATOM  44890  C   VAL L  18     153.972  90.093 -12.409  1.00106.62      LS12
ATOM  44891  O   VAL L  18     153.170  89.719 -11.562  1.00106.62      LS12
ATOM  44892  N   ARG L  19     154.995  89.346 -12.804  1.00 94.34      LS12
ATOM  44893  CA  ARG L  19     155.239  88.031 -12.222  1.00 94.34      LS12
ATOM  44894  CB  ARG L  19     155.583  87.020 -13.316  1.00200.96      LS12
ATOM  44895  CG  ARG L  19     154.459  86.722 -14.295  1.00200.96      LS12
ATOM  44896  CD  ARG L  19     154.937  85.748 -15.368  1.00200.96      LS12
ATOM  44897  NE  ARG L  19     153.856  85.288 -16.237  1.00200.96      LS12
ATOM  44898  CZ  ARG L  19     154.020  84.452 -17.259  1.00200.96      LS12
ATOM  44899  NH1 ARG L  19     155.227  83.980 -17.549  1.00200.96      LS12
ATOM  44900  NH2 ARG L  19     152.977  84.083 -17.991  1.00200.96      LS12
ATOM  44901  C   ARG L  19     156.420  88.157 -11.258  1.00 94.34      LS12
ATOM  44902  O   ARG L  19     157.534  88.473 -11.679  1.00 94.34      LS12
ATOM  44903  N   LYS L  20     156.187  87.915  -9.972  1.00118.41      LS12
ATOM  44904  CA  LYS L  20     157.262  88.028  -8.988  1.00118.41      LS12
ATOM  44905  CB  LYS L  20     156.676  88.270  -7.594  1.00200.96      LS12
ATOM  44906  CG  LYS L  20     155.955  89.603  -7.462  1.00200.96      LS12
ATOM  44907  CD  LYS L  20     155.553  89.892  -6.023  1.00200.96      LS12
ATOM  44908  CE  LYS L  20     154.948  91.286  -5.890  1.00200.96      LS12
ATOM  44909  NZ  LYS L  20     154.616  91.645  -4.479  1.00200.96      LS12
ATOM  44910  C   LYS L  20     158.179  86.806  -8.963  1.00118.41      LS12
ATOM  44911  O   LYS L  20     157.711  85.670  -8.904  1.00118.41      LS12
ATOM  44912  N   LYS L  21     159.488  87.052  -9.010  1.00 50.91      LS12
ATOM  44913  CA  LYS L  21     160.494  85.979  -8.992  1.00 50.91      LS12
ATOM  44914  CB  LYS L  21     161.653  86.301  -9.940  1.00132.98      LS12
ATOM  44915  CG  LYS L  21     161.366  86.116 -11.419  1.00132.98      LS12
ATOM  44916  CD  LYS L  21     162.632  86.384 -12.232  1.00132.98      LS12
ATOM  44917  CE  LYS L  21     162.449  86.090 -13.719  1.00132.98      LS12
ATOM  44918  NZ  LYS L  21     163.706  86.336 -14.491  1.00132.98      LS12
ATOM  44919  C   LYS L  21     161.067  85.771  -7.600  1.00 50.91      LS12
ATOM  44920  O   LYS L  21     161.621  86.692  -7.007  1.00 50.91      LS12
ATOM  44921  N   SER L  22     160.956  84.554  -7.084  1.00 40.08      LS12
ATOM  44922  CA  SER L  22     161.486  84.270  -5.758  1.00 40.08      LS12
ATOM  44923  CB  SER L  22     161.038  82.905  -5.276  1.00 55.19      LS12
ATOM  44924  OG  SER L  22     161.805  82.559  -4.139  1.00 55.19      LS12
ATOM  44925  C   SER L  22     163.007  84.326  -5.655  1.00 40.08      LS12
ATOM  44926  O   SER L  22     163.737  83.928  -6.576  1.00 40.08      LS12
ATOM  44927  N   LYS L  23     163.486  84.820  -4.521  1.00 53.80      LS12
ATOM  44928  CA  LYS L  23     164.917  84.905  -4.295  1.00 53.80      LS12
ATOM  44929  CB  LYS L  23     165.320  86.263  -3.712  1.00 85.91      LS12
ATOM  44930  CG  LYS L  23     164.427  87.439  -4.042  1.00 85.91      LS12
ATOM  44931  CD  LYS L  23     165.097  88.726  -3.576  1.00 85.91      LS12
ATOM  44932  CE  LYS L  23     164.119  89.878  -3.458  1.00 85.91      LS12
ATOM  44933  NZ  LYS L  23     163.181  89.671  -2.317  1.00 85.91      LS12
ATOM  44934  C   LYS L  23     165.204  83.857  -3.251  1.00 53.80      LS12
ATOM  44935  O   LYS L  23     166.185  83.963  -2.517  1.00 53.80      LS12
ATOM  44936  N   VAL L  24     164.356  82.839  -3.182  1.00 17.11      LS12
ATOM  44937  CA  VAL L  24     164.535  81.844  -2.149  1.00 17.11      LS12
ATOM  44938  CB  VAL L  24     163.958  82.413  -0.797  1.00 26.50      LS12
ATOM  44939  CG1 VAL L  24     163.511  81.332   0.129  1.00 26.50      LS12
ATOM  44940  CG2 VAL L  24     165.031  83.192  -0.085  1.00 26.50      LS12
ATOM  44941  C   VAL L  24     163.952  80.475  -2.462  1.00 17.11      LS12
ATOM  44942  O   VAL L  24     162.989  80.037  -1.850  1.00 17.11      LS12
ATOM  44943  N   PRO L  25     164.506  79.776  -3.449  1.00 54.63      LS12
ATOM  44944  CD  PRO L  25     165.067  80.241  -4.725  1.00  9.44      LS12
ATOM  44945  CA  PRO L  25     163.829  78.482  -3.603  1.00 54.63      LS12
ATOM  44946  CB  PRO L  25     164.279  78.023  -4.965  1.00  9.44      LS12
ATOM  44947  CG  PRO L  25     164.352  79.381  -5.694  1.00  9.44      LS12
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ATOM  44948  C   PRO L  25     164.125  77.479  -2.482  1.00 54.63      LS12
ATOM  44949  O   PRO L  25     164.626  76.367  -2.708  1.00 54.63      LS12
ATOM  44950  N   ALA L  26     163.795  77.914  -1.261  1.00105.45      LS12
ATOM  44951  CA  ALA L  26     163.903  77.105  -0.050  1.00105.45      LS12
ATOM  44952  CB  ALA L  26     163.514  77.965   1.234  1.00  1.96      LS12
ATOM  44953  C   ALA L  26     162.807  76.109  -0.412  1.00105.45      LS12
ATOM  44954  O   ALA L  26     162.457  75.203   0.337  1.00105.45      LS12
ATOM  44955  N   LEU L  27     162.296  76.332  -1.620  1.00 71.40      LS12
ATOM  44956  CA  LEU L  27     161.241  75.578  -2.257  1.00 71.40      LS12
ATOM  44957  CB  LEU L  27     161.680  74.147  -2.584  1.00118.74      LS12
ATOM  44958  CG  LEU L  27     160.581  73.278  -3.225  1.00118.74      LS12
ATOM  44959  CD1 LEU L  27     159.980  73.995  -4.418  1.00118.74      LS12
ATOM  44960  CD2 LEU L  27     161.151  71.945  -3.660  1.00118.74      LS12
ATOM  44961  C   LEU L  27     160.035  75.536  -1.383  1.00 71.40      LS12
ATOM  44962  O   LEU L  27     160.141  75.596  -0.155  1.00 71.40      LS12
ATOM  44963  N   LYS L  28     158.882  75.441  -2.031  1.00 46.04      LS12
ATOM  44964  CA  LYS L  28     157.618  75.368  -1.318  1.00 46.04      LS12
ATOM  44965  CB  LYS L  28     157.656  74.182  -0.340  1.00131.61      LS12
ATOM  44966  CG  LYS L  28     156.323  73.757   0.266  1.00131.61      LS12
ATOM  44967  CD  LYS L  28     156.535  72.523   1.132  1.00131.61      LS12
ATOM  44968  CE  LYS L  28     155.261  72.032   1.783  1.00131.61      LS12
ATOM  44969  NZ  LYS L  28     155.538  70.795   2.568  1.00131.61      LS12
ATOM  44970  C   LYS L  28     157.454  76.682  -0.573  1.00 46.04      LS12
ATOM  44971  O   LYS L  28     156.554  76.848   0.250  1.00 46.04      LS12
ATOM  44972  N   GLY L  29     158.335  77.624  -0.881  1.00 71.40      LS12
ATOM  44973  CA  GLY L  29     158.276  78.909  -0.224  1.00 71.40      LS12
ATOM  44974  C   GLY L  29     158.310  78.696   1.271  1.00 71.40      LS12
ATOM  44975  O   GLY L  29     158.684  79.606   2.013  1.00 71.40      LS12
ATOM  44976  N   ALA L  30     157.927  77.490   1.696  1.00 30.99      LS12
ATOM  44977  CA  ALA L  30     157.896  77.091   3.096  1.00 30.99      LS12
ATOM  44978  CB  ALA L  30     158.320  75.642   3.226  1.00 46.37      LS12
ATOM  44979  C   ALA L  30     158.792  77.978   3.951  1.00 30.99      LS12
ATOM  44980  O   ALA L  30     159.844  78.436   3.510  1.00 30.99      LS12
ATOM  44981  N   PRO L  31     158.392  78.227   5.193  1.00 33.40      LS12
ATOM  44982  CD  PRO L  31     157.411  77.454   5.960  1.00 49.84      LS12
ATOM  44983  CA  PRO L  31     159.202  79.074   6.070  1.00 33.40      LS12
ATOM  44984  CB  PRO L  31     158.523  78.923   7.426  1.00 49.84      LS12
ATOM  44985  CG  PRO L  31     157.160  78.363   7.099  1.00 49.84      LS12
ATOM  44986  C   PRO L  31     160.652  78.576   6.126  1.00 33.40      LS12
ATOM  44987  O   PRO L  31     161.589  79.366   6.262  1.00 33.40      LS12
ATOM  44988  N   PHE L  32     160.819  77.257   6.038  1.00 55.65      LS12
ATOM  44989  CA  PHE L  32     162.133  76.635   6.098  1.00 55.65      LS12
ATOM  44990  CB  PHE L  32     162.524  76.338   7.529  1.00 19.50      LS12
ATOM  44991  CG  PHE L  32     162.203  77.425   8.496  1.00 19.50      LS12
ATOM  44992  CD1 PHE L  32     163.150  78.384   8.817  1.00 19.50      LS12
ATOM  44993  CD2 PHE L  32     160.963  77.454   9.134  1.00 19.50      LS12
ATOM  44994  CE1 PHE L  32     162.868  79.340   9.757  1.00 19.50      LS12
ATOM  44995  CE2 PHE L  32     160.676  78.410  10.076  1.00 19.50      LS12
ATOM  44996  CZ  PHE L  32     161.623  79.351  10.391  1.00 19.50      LS12
ATOM  44997  C   PHE L  32     162.148  75.287   5.412  1.00 55.65      LS12
ATOM  44998  O   PHE L  32     161.109  74.712   5.093  1.00 55.65      LS12
ATOM  44999  N   ARG L  33     163.352  74.767   5.226  1.00 38.00      LS12
ATOM  45000  CA  ARG L  33     163.536  73.451   4.647  1.00 38.00      LS12
ATOM  45001  CB  ARG L  33     163.845  73.536   3.161  1.00 89.06      LS12
ATOM  45002  CG  ARG L  33     163.960  72.174   2.515  1.00 89.06      LS12
ATOM  45003  CD  ARG L  33     162.716  71.831   1.723  1.00 89.06      LS12
ATOM  45004  NE  ARG L  33     161.479  72.021   2.472  1.00 89.06      LS12
ATOM  45005  CZ  ARG L  33     160.270  71.774   1.976  1.00 89.06      LS12
ATOM  45006  NH1 ARG L  33     160.135  71.326   0.734  1.00 89.06      LS12
ATOM  45007  NH2 ARG L  33     159.195  71.977   2.725  1.00 89.06      LS12
ATOM  45008  C   ARG L  33     164.730  72.881   5.392  1.00 38.00      LS12
ATOM  45009  O   ARG L  33     165.634  73.630   5.801  1.00 38.00      LS12
ATOM  45010  N   ARG L  34     164.737  71.569   5.599  1.00 52.11      LS12
ATOM  45011  CA  ARG L  34     165.857  70.972   6.299  1.00 52.11      LS12
ATOM  45012  CB  ARG L  34     165.367  70.129   7.476  1.00 66.57      LS12
ATOM  45013  CG  ARG L  34     165.127  68.677   7.202  1.00 66.57      LS12
ATOM  45014  CD  ARG L  34     164.752  67.997   8.505  1.00 66.57      LS12
ATOM  45015  NE  ARG L  34     164.469  66.575   8.358  1.00 66.57      LS12
ATOM  45016  CZ  ARG L  34     165.395  65.623   8.297  1.00 66.57      LS12
ATOM  45017  NH1 ARG L  34     166.690  65.926   8.374  1.00 66.57      LS12
ATOM  45018  NH2 ARG L  34     165.023  64.358   8.152  1.00 66.57      LS12
ATOM  45019  C   ARG L  34     166.751  70.158   5.373  1.00 52.11      LS12
ATOM  45020  O   ARG L  34     166.339  69.724   4.295  1.00 52.11      LS12
ATOM  45021  N   GLY L  35     167.995  69.990   5.790  1.00 53.14      LS12
ATOM  45022  CA  GLY L  35     168.936  69.240   4.992  1.00 53.14      LS12
ATOM  45023  C   GLY L  35     170.132  68.773   5.797  1.00 53.14      LS12
ATOM  45024  O   GLY L  35     170.157  68.865   7.034  1.00 53.14      LS12
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ATOM  45025  N   VAL L  36     171.131  68.267   5.085  1.00 49.30      LS12
ATOM  45026  CA  VAL L  36     172.335  67.787   5.724  1.00 49.30      LS12
ATOM  45027  CB  VAL L  36     172.455  66.301   5.564  1.00 56.00      LS12
ATOM  45028  CG1 VAL L  36     173.659  65.815   6.333  1.00 56.00      LS12
ATOM  45029  CG2 VAL L  36     171.182  65.638   6.043  1.00 56.00      LS12
ATOM  45030  C   VAL L  36     173.560  68.428   5.112  1.00 49.30      LS12
ATOM  45031  O   VAL L  36     173.604  68.686   3.913  1.00 49.30      LS12
ATOM  45032  N   CYS L  37     174.564  68.687   5.935  1.00 50.87      LS12
ATOM  45033  CA  CYS L  37     175.783  69.292   5.430  1.00 50.87      LS12
ATOM  45034  CB  CYS L  37     176.602  69.825   6.592  1.00 73.45      LS12
ATOM  45035  SG  CYS L  37     175.647  70.928   7.631  1.00 73.45      LS12
ATOM  45036  C   CYS L  37     176.604  68.296   4.607  1.00 50.87      LS12
ATOM  45037  O   CYS L  37     176.651  67.107   4.903  1.00 50.87      LS12
ATOM  45038  N   THR L  38     177.231  68.798   3.553  1.00 69.13      LS12
ATOM  45039  CA  THR L  38     178.050  67.986   2.671  1.00 69.13      LS12
ATOM  45040  CB  THR L  38     177.644  68.186   1.203  1.00102.86      LS12
ATOM  45041  OG1 THR L  38     176.294  67.754   1.019  1.00102.86      LS12
ATOM  45042  CG2 THR L  38     178.556  67.400   0.278  1.00102.86      LS12
ATOM  45043  C   THR L  38     179.458  68.502   2.845  1.00 69.13      LS12
ATOM  45044  O   THR L  38     180.430  67.761   2.752  1.00 69.13      LS12
ATOM  45045  N   VAL L  39     179.551  69.799   3.094  1.00 45.94      LS12
ATOM  45046  CA  VAL L  39     180.828  70.456   3.280  1.00 45.94      LS12
ATOM  45047  CB  VAL L  39     181.300  71.146   1.998  1.00 67.54      LS12
ATOM  45048  CG1 VAL L  39     182.708  71.677   2.190  1.00 67.54      LS12
ATOM  45049  CG2 VAL L  39     181.231  70.191   0.832  1.00 67.54      LS12
ATOM  45050  C   VAL L  39     180.628  71.539   4.311  1.00 45.94      LS12
ATOM  45051  O   VAL L  39     179.499  71.902   4.627  1.00 45.94      LS12
ATOM  45052  N   VAL L  40     181.731  72.053   4.832  1.00 41.34      LS12
ATOM  45053  CA  VAL L  40     181.685  73.118   5.810  1.00 41.34      LS12
ATOM  45054  CB  VAL L  40     181.690  72.576   7.227  1.00 28.58      LS12
ATOM  45055  CG1 VAL L  40     181.748  73.729   8.211  1.00 28.58      LS12
ATOM  45056  CG2 VAL L  40     180.439  71.742   7.458  1.00 28.58      LS12
ATOM  45057  C   VAL L  40     182.908  73.979   5.576  1.00 41.34      LS12
ATOM  45058  O   VAL L  40     183.788  74.100   6.419  1.00 41.34      LS12
ATOM  45059  N   ARG L  41     182.937  74.576   4.395  1.00 42.64      LS12
ATOM  45060  CA  ARG L  41     184.018  75.427   3.970  1.00 42.64      LS12
ATOM  45061  CB  ARG L  41     183.861  75.696   2.477  1.00114.20      LS12
ATOM  45062  CG  ARG L  41     185.063  76.300   1.793  1.00114.20      LS12
ATOM  45063  CD  ARG L  41     184.762  76.627   0.338  1.00114.20      LS12
ATOM  45064  NE  ARG L  41     184.220  75.485  -0.398  1.00114.20      LS12
ATOM  45065  CZ  ARG L  41     182.945  75.101  -0.367  1.00114.20      LS12
ATOM  45066  NH1 ARG L  41     182.064  75.769   0.365  1.00114.20      LS12
ATOM  45067  NH2 ARG L  41     182.552  74.049  -1.072  1.00114.20      LS12
ATOM  45068  C   ARG L  41     184.056  76.754   4.729  1.00 42.64      LS12
ATOM  45069  O   ARG L  41     183.222  77.037   5.597  1.00 42.64      LS12
ATOM  45070  N   THR L  42     185.067  77.542   4.381  1.00 59.69      LS12
ATOM  45071  CA  THR L  42     185.325  78.875   4.904  1.00 59.69      LS12
ATOM  45072  CB  THR L  42     186.766  78.969   5.446  1.00 70.09      LS12
ATOM  45073  OG1 THR L  42     186.924  80.178   6.187  1.00 70.09      LS12
ATOM  45074  CG2 THR L  42     187.775  78.961   4.303  1.00 70.09      LS12
ATOM  45075  C   THR L  42     185.191  79.658   3.593  1.00 59.69      LS12
ATOM  45076  O   THR L  42     185.191  79.046   2.527  1.00 59.69      LS12
ATOM  45077  N   VAL L  43     185.080  80.979   3.633  1.00 33.88      LS12
ATOM  45078  CA  VAL L  43     184.915  81.724   2.384  1.00 33.88      LS12
ATOM  45079  CB  VAL L  43     183.459  81.600   1.881  1.00 39.48      LS12
ATOM  45080  CG1 VAL L  43     183.056  82.848   1.121  1.00 39.48      LS12
ATOM  45081  CG2 VAL L  43     183.320  80.388   0.992  1.00 39.48      LS12
ATOM  45082  C   VAL L  43     185.274  83.198   2.492  1.00 33.88      LS12
ATOM  45083  O   VAL L  43     185.010  83.836   3.507  1.00 33.88      LS12
ATOM  45084  N   THR L  44     185.853  83.740   1.428  1.00 44.62      LS12
ATOM  45085  CA  THR L  44     186.258  85.136   1.406  1.00 44.62      LS12
ATOM  45086  CB  THR L  44     187.382  85.357   0.405  1.00 75.88      LS12
ATOM  45087  OG1 THR L  44     186.944  84.947  -0.898  1.00 75.88      LS12
ATOM  45088  CG2 THR L  44     188.603  84.564   0.811  1.00 75.88      LS12
ATOM  45089  C   THR L  44     185.131  86.082   1.020  1.00 44.62      LS12
ATOM  45090  O   THR L  44     184.277  85.733   0.210  1.00 44.62      LS12
ATOM  45091  N   PRO L  45     185.115  87.299   1.599  1.00 41.17      LS12
ATOM  45092  CD  PRO L  45     185.969  87.781   2.695  1.00 80.38      LS12
ATOM  45093  CA  PRO L  45     184.082  88.287   1.291  1.00 41.17      LS12
ATOM  45094  CB  PRO L  45     184.328  89.388   2.322  1.00 80.38      LS12
ATOM  45095  CG  PRO L  45     185.034  88.693   3.429  1.00 80.38      LS12
ATOM  45096  C   PRO L  45     184.364  88.791  -0.109  1.00 41.17      LS12
ATOM  45097  O   PRO L  45     185.383  88.446  -0.696  1.00 41.17      LS12
ATOM  45098  N   LYS L  46     183.478  89.614  -0.643  1.00 19.80      LS12
ATOM  45099  CA  LYS L  46     183.703  90.159  -1.967  1.00 19.80      LS12
ATOM  45100  CB  LYS L  46     182.502  89.873  -2.875  1.00 60.00      LS12
ATOM  45101  CG  LYS L  46     181.266  90.732  -2.591  1.00 60.00      LS12
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ATOM  45102  CD  LYS L  46     180.711  91.308  -3.887  1.00 60.00      LS12
ATOM  45103  CE  LYS L  46     179.535  92.236  -3.638  1.00 60.00      LS12
ATOM  45104  NZ  LYS L  46     178.977  92.776  -4.909  1.00 60.00      LS12
ATOM  45105  C   LYS L  46     183.969  91.676  -1.954  1.00 19.80      LS12
ATOM  45106  O   LYS L  46     184.645  92.223  -1.081  1.00 19.80      LS12
ATOM  45107  N   LYS L  47     183.389  92.337  -2.949  1.00 61.45      LS12
ATOM  45108  CA  LYS L  47     183.505  93.768  -3.166  1.00 61.45      LS12
ATOM  45109  CB  LYS L  47     182.125  94.438  -3.013  1.00131.00      LS12
ATOM  45110  CG  LYS L  47     182.011  95.819  -3.674  1.00131.00      LS12
ATOM  45111  CD  LYS L  47     180.580  96.369  -3.618  1.00131.00      LS12
ATOM  45112  CE  LYS L  47     180.463  97.724  -4.327  1.00131.00      LS12
ATOM  45113  NZ  LYS L  47     179.076  98.287  -4.310  1.00131.00      LS12
ATOM  45114  C   LYS L  47     184.581  94.446  -2.326  1.00 61.45      LS12
ATOM  45115  O   LYS L  47     185.724  94.531  -2.778  1.00 61.45      LS12
ATOM  45116  N   PRO L  48     184.259  94.902  -1.097  1.00 34.24      LS12
ATOM  45117  CD  PRO L  48     182.985  95.404  -0.569  1.00 35.63      LS12
ATOM  45118  CA  PRO L  48     185.341  95.551  -0.352  1.00 34.24      LS12
ATOM  45119  CB  PRO L  48     184.855  96.980  -0.268  1.00 35.63      LS12
ATOM  45120  CG  PRO L  48     183.426  96.743   0.140  1.00 35.63      LS12
ATOM  45121  C   PRO L  48     185.594  94.994   1.043  1.00 34.24      LS12
ATOM  45122  O   PRO L  48     186.358  95.566   1.795  1.00 34.24      LS12
ATOM  45123  N   ASN L  49     184.946  93.898   1.399  1.00 50.62      LS12
ATOM  45124  CA  ASN L  49     185.156  93.342   2.722  1.00 50.62      LS12
ATOM  45125  CB  ASN L  49     183.853  92.761   3.263  1.00 62.09      LS12
ATOM  45126  CG  ASN L  49     182.906  93.831   3.762  1.00 62.09      LS12
ATOM  45127  OD1 ASN L  49     181.758  93.548   4.096  1.00 62.09      LS12
ATOM  45128  ND2 ASN L  49     183.389  95.070   3.827  1.00 62.09      LS12
ATOM  45129  C   ASN L  49     186.220  92.269   2.698  1.00 50.62      LS12
ATOM  45130  O   ASN L  49     186.555  91.740   1.630  1.00 50.62      LS12
ATOM  45131  N   SER L  50     186.757  91.957   3.878  1.00 40.93      LS12
ATOM  45132  CA  SER L  50     187.786  90.925   4.002  1.00 40.93      LS12
ATOM  45133  CB  SER L  50     189.178  91.555   4.056  1.00 60.98      LS12
ATOM  45134  OG  SER L  50     190.177  90.554   3.995  1.00 60.98      LS12
ATOM  45135  C   SER L  50     187.555  90.092   5.251  1.00 40.93      LS12
ATOM  45136  O   SER L  50     187.281  90.632   6.313  1.00 40.93      LS12
ATOM  45137  N   ALA L  51     187.669  88.779   5.124  1.00 43.24      LS12
ATOM  45138  CA  ALA L  51     187.452  87.907   6.267  1.00 43.24      LS12
ATOM  45139  CB  ALA L  51     186.227  88.364   7.050  1.00 54.21      LS12
ATOM  45140  C   ALA L  51     187.283  86.454   5.845  1.00 43.24      LS12
ATOM  45141  O   ALA L  51     187.528  86.105   4.692  1.00 43.24      LS12
ATOM  45142  N   LEU L  52     186.877  85.606   6.782  1.00 44.83      LS12
ATOM  45143  CA  LEU L  52     186.683  84.201   6.467  1.00 44.83      LS12
ATOM  45144  CB  LEU L  52     187.785  83.344   7.092  1.00 57.57      LS12
ATOM  45145  CG  LEU L  52     189.204  83.578   6.580  1.00 57.57      LS12
ATOM  45146  CD1 LEU L  52     190.039  82.404   7.012  1.00 57.57      LS12
ATOM  45147  CD2 LEU L  52     189.235  83.711   5.064  1.00 57.57      LS12
ATOM  45148  C   LEU L  52     185.331  83.730   6.948  1.00 44.83      LS12
ATOM  45149  O   LEU L  52     185.194  83.190   8.045  1.00 44.83      LS12
ATOM  45150  N   ARG L  53     184.330  83.925   6.105  1.00 66.92      LS12
ATOM  45151  CA  ARG L  53     182.982  83.551   6.456  1.00 66.92      LS12
ATOM  45152  CB  ARG L  53     182.017  84.259   5.514  1.00 48.80      LS12
ATOM  45153  CG  ARG L  53     181.290  85.393   6.211  1.00 48.80      LS12
ATOM  45154  CD  ARG L  53     181.405  86.682   5.476  1.00 48.80      LS12
ATOM  45155  NE  ARG L  53     181.894  87.722   6.365  1.00 48.80      LS12
ATOM  45156  CZ  ARG L  53     181.869  89.010   6.057  1.00 48.80      LS12
ATOM  45157  NH1 ARG L  53     181.368  89.390   4.877  1.00 48.80      LS12
ATOM  45158  NH2 ARG L  53     182.352  89.906   6.912  1.00 48.80      LS12
ATOM  45159  C   ARG L  53     182.719  82.056   6.485  1.00 66.92      LS12
ATOM  45160  O   ARG L  53     183.251  81.304   5.667  1.00 66.92      LS12
ATOM  45161  N   LYS L  54     181.905  81.631   7.451  1.00 44.54      LS12
ATOM  45162  CA  LYS L  54     181.558  80.222   7.592  1.00 44.54      LS12
ATOM  45163  CB  LYS L  54     181.233  79.891   9.046  1.00 54.98      LS12
ATOM  45164  CG  LYS L  54     182.464  79.749   9.919  1.00 54.98      LS12
ATOM  45165  CD  LYS L  54     183.328  80.994   9.844  1.00 54.98      LS12
ATOM  45166  CE  LYS L  54     184.686  80.753  10.437  1.00 54.98      LS12
ATOM  45167  NZ  LYS L  54     185.465  82.003  10.407  1.00 54.98      LS12
ATOM  45168  C   LYS L  54     180.372  79.901   6.709  1.00 44.54      LS12
ATOM  45169  O   LYS L  54     179.400  80.649   6.654  1.00 44.54      LS12
ATOM  45170  N   VAL L  55     180.444  78.773   6.028  1.00 53.20      LS12
ATOM  45171  CA  VAL L  55     179.390  78.399   5.112  1.00 53.20      LS12
ATOM  45172  CB  VAL L  55     179.759  78.934   3.707  1.00 43.49      LS12
ATOM  45173  CG1 VAL L  55     179.470  77.901   2.638  1.00 43.49      LS12
ATOM  45174  CG2 VAL L  55     179.015  80.207   3.433  1.00 43.49      LS12
ATOM  45175  C   VAL L  55     179.205  76.889   5.066  1.00 53.20      LS12
ATOM  45176  O   VAL L  55     180.115  76.137   5.391  1.00 53.20      LS12
ATOM  45177  N   ALA L  56     178.026  76.444   4.660  1.00 51.02      LS12
ATOM  45178  CA  ALA L  56     177.775  75.020   4.546  1.00 51.02      LS12
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ATOM  45179  CB  ALA L  56     176.907  74.544   5.699  1.00 33.69      LS12
ATOM  45180  C   ALA L  56     177.095  74.701   3.219  1.00 51.02      LS12
ATOM  45181  O   ALA L  56     176.207  75.437   2.772  1.00 51.02      LS12
ATOM  45182  N   LYS L  57     177.541  73.623   2.575  1.00 59.75      LS12
ATOM  45183  CA  LYS L  57     176.934  73.162   1.330  1.00 59.75      LS12
ATOM  45184  CB  LYS L  57     177.968  72.458   0.450  1.00122.90      LS12
ATOM  45185  CG  LYS L  57     179.036  73.379  -0.140  1.00122.90      LS12
ATOM  45186  CD  LYS L  57     178.468  74.286  -1.230  1.00122.90      LS12
ATOM  45187  CE  LYS L  57     179.562  75.051  -1.987  1.00122.90      LS12
ATOM  45188  NZ  LYS L  57     180.177  76.166  -1.215  1.00122.90      LS12
ATOM  45189  C   LYS L  57     175.920  72.158   1.867  1.00 59.75      LS12
ATOM  45190  O   LYS L  57     176.299  71.092   2.336  1.00 59.75      LS12
ATOM  45191  N   VAL L  58     174.638  72.509   1.820  1.00 37.05      LS12
ATOM  45192  CA  VAL L  58     173.585  71.654   2.360  1.00 37.05      LS12
ATOM  45193  CB  VAL L  58     172.647  72.467   3.268  1.00 47.08      LS12
ATOM  45194  CG1 VAL L  58     171.714  71.543   4.016  1.00 47.08      LS12
ATOM  45195  CG2 VAL L  58     173.459  73.323   4.217  1.00 47.08      LS12
ATOM  45196  C   VAL L  58     172.722  70.999   1.298  1.00 37.05      LS12
ATOM  45197  O   VAL L  58     172.292  71.666   0.355  1.00 37.05      LS12
ATOM  45198  N   ARG L  59     172.462  69.700   1.470  1.00 53.04      LS12
ATOM  45199  CA  ARG L  59     171.628  68.915   0.556  1.00 53.04      LS12
ATOM  45200  CB  ARG L  59     172.186  67.501   0.415  1.00101.74      LS12
ATOM  45201  CG  ARG L  59     171.418  66.611  -0.542  1.00101.74      LS12
ATOM  45202  CD  ARG L  59     172.041  65.218  -0.599  1.00101.74      LS12
ATOM  45203  NE  ARG L  59     173.426  65.254  -1.065  1.00101.74      LS12
ATOM  45204  CZ  ARG L  59     173.790  65.463  -2.328  1.00101.74      LS12
ATOM  45205  NH1 ARG L  59     172.871  65.648  -3.267  1.00101.74      LS12
ATOM  45206  NH2 ARG L  59     175.078  65.501  -2.654  1.00101.74      LS12
ATOM  45207  C   ARG L  59     170.225  68.866   1.153  1.00 53.04      LS12
ATOM  45208  O   ARG L  59     169.957  68.065   2.046  1.00 53.04      LS12
ATOM  45209  N   LEU L  60     169.348  69.732   0.643  1.00112.98      LS12
ATOM  45210  CA  LEU L  60     167.962  69.884   1.103  1.00112.98      LS12
ATOM  45211  CB  LEU L  60     167.334  71.132   0.463  1.00 66.45      LS12
ATOM  45212  CG  LEU L  60     167.763  72.523   0.940  1.00 66.45      LS12
ATOM  45213  CD1 LEU L  60     167.625  72.628   2.458  1.00 66.45      LS12
ATOM  45214  CD2 LEU L  60     169.195  72.771   0.530  1.00 66.45      LS12
ATOM  45215  C   LEU L  60     166.989  68.726   0.910  1.00112.98      LS12
ATOM  45216  O   LEU L  60     167.186  67.857   0.058  1.00112.98      LS12
ATOM  45217  N   THR L  61     165.923  68.743   1.712  1.00 71.66      LS12
ATOM  45218  CA  THR L  61     164.881  67.727   1.633  1.00 71.66      LS12
ATOM  45219  CB  THR L  61     163.938  67.754   2.853  1.00 94.10      LS12
ATOM  45220  OG1 THR L  61     163.290  69.029   2.940  1.00 94.10      LS12
ATOM  45221  CG2 THR L  61     164.713  67.483   4.123  1.00 94.10      LS12
ATOM  45222  C   THR L  61     164.053  68.010   0.394  1.00 71.66      LS12
ATOM  45223  O   THR L  61     163.304  67.157  -0.072  1.00 71.66      LS12
ATOM  45224  N   SER L  62     164.175  69.228  -0.122  1.00 57.84      LS12
ATOM  45225  CA  SER L  62     163.464  69.609  -1.330  1.00 57.84      LS12
ATOM  45226  CB  SER L  62     163.155  71.110  -1.334  1.00 31.36      LS12
ATOM  45227  OG  SER L  62     164.306  71.911  -1.124  1.00 31.36      LS12
ATOM  45228  C   SER L  62     164.356  69.257  -2.512  1.00 57.84      LS12
ATOM  45229  O   SER L  62     164.393  69.973  -3.512  1.00 57.84      LS12
ATOM  45230  N   GLY L  63     165.083  68.148  -2.376  1.00110.70      LS12
ATOM  45231  CA  GLY L  63     165.972  67.691  -3.430  1.00110.70      LS12
ATOM  45232  C   GLY L  63     166.871  68.789  -3.955  1.00110.70      LS12
ATOM  45233  O   GLY L  63     166.978  68.994  -5.164  1.00110.70      LS12
ATOM  45234  N   TYR L  64     167.516  69.504  -3.042  1.00159.20      LS12
ATOM  45235  CA  TYR L  64     168.412  70.587  -3.418  1.00159.20      LS12
ATOM  45236  CB  TYR L  64     167.803  71.937  -3.053  1.00 62.92      LS12
ATOM  45237  CG  TYR L  64     167.033  72.623  -4.166  1.00 62.92      LS12
ATOM  45238  CD1 TYR L  64     165.733  72.233  -4.494  1.00 62.92      LS12
ATOM  45239  CE1 TYR L  64     165.011  72.900  -5.472  1.00 62.92      LS12
ATOM  45240  CD2 TYR L  64     167.594  73.699  -4.856  1.00 62.92      LS12
ATOM  45241  CE2 TYR L  64     166.887  74.372  -5.832  1.00 62.92      LS12
ATOM  45242  CZ  TYR L  64     165.594  73.973  -6.136  1.00 62.92      LS12
ATOM  45243  OH  TYR L  64     164.884  74.674  -7.089  1.00 62.92      LS12
ATOM  45244  C   TYR L  64     169.760  70.461  -2.730  1.00159.20      LS12
ATOM  45245  O   TYR L  64     169.907  69.722  -1.759  1.00159.20      LS12
ATOM  45246  N   GLU L  65     170.740  71.191  -3.251  1.00 61.70      LS12
ATOM  45247  CA  GLU L  65     172.092  71.204  -2.702  1.00 61.70      LS12
ATOM  45248  CB  GLU L  65     173.040  70.398  -3.590  1.00160.00      LS12
ATOM  45249  CG  GLU L  65     172.576  68.974  -3.903  1.00160.00      LS12
ATOM  45250  CD  GLU L  65     171.285  68.923  -4.719  1.00160.00      LS12
ATOM  45251  OE1 GLU L  65     171.202  69.614  -5.757  1.00160.00      LS12
ATOM  45252  OE2 GLU L  65     170.355  68.184  -4.325  1.00160.00      LS12
ATOM  45253  C   GLU L  65     172.487  72.674  -2.716  1.00 61.70      LS12
ATOM  45254  O   GLU L  65     173.033  73.164  -3.702  1.00 61.70      LS12
ATOM  45255  N   VAL L  66     172.197  73.387  -1.633  1.00 34.46      LS12
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ATOM  45256  CA  VAL L  66     172.512  74.805  -1.592  1.00 34.46      LS12
ATOM  45257  CB  VAL L  66     171.233  75.636  -1.519  1.00 46.11      LS12
ATOM  45258  CG1 VAL L  66     170.238  75.113  -2.524  1.00 46.11      LS12
ATOM  45259  CG2 VAL L  66     170.657  75.591  -0.115  1.00 46.11      LS12
ATOM  45260  C   VAL L  66     173.448  75.225  -0.465  1.00 34.46      LS12
ATOM  45261  O   VAL L  66     173.572  74.557   0.561  1.00 34.46      LS12
ATOM  45262  N   THR L  67     174.098  76.356  -0.685  1.00 46.37      LS12
ATOM  45263  CA  THR L  67     175.056  76.895   0.246  1.00 46.37      LS12
ATOM  45264  CB  THR L  67     176.037  77.763  -0.478  1.00 69.59      LS12
ATOM  45265  OG1 THR L  67     176.492  77.081  -1.650  1.00 69.59      LS12
ATOM  45266  CG2 THR L  67     177.193  78.083   0.414  1.00 69.59      LS12
ATOM  45267  C   THR L  67     174.385  77.763   1.271  1.00 46.37      LS12
ATOM  45268  O   THR L  67     173.858  78.818   0.927  1.00 46.37      LS12
ATOM  45269  N   ALA L  68     174.413  77.342   2.531  1.00 43.65      LS12
ATOM  45270  CA  ALA L  68     173.800  78.132   3.589  1.00 43.65      LS12
ATOM  45271  CB  ALA L  68     172.830  77.294   4.376  1.00 12.62      LS12
ATOM  45272  C   ALA L  68     174.865  78.689   4.510  1.00 43.65      LS12
ATOM  45273  O   ALA L  68     175.887  78.054   4.757  1.00 43.65      LS12
ATOM  45274  N   TYR L  69     174.608  79.882   5.023  1.00 27.22      LS12
ATOM  45275  CA  TYR L  69     175.525  80.557   5.921  1.00 27.22      LS12
ATOM  45276  CB  TYR L  69     175.236  82.036   5.885  1.00 49.73      LS12
ATOM  45277  CG  TYR L  69     176.250  82.861   6.602  1.00 49.73      LS12
ATOM  45278  CD1 TYR L  69     177.531  83.018   6.087  1.00 49.73      LS12
ATOM  45279  CE1 TYR L  69     178.445  83.825   6.712  1.00 49.73      LS12
ATOM  45280  CD2 TYR L  69     175.918  83.529   7.772  1.00 49.73      LS12
ATOM  45281  CE2 TYR L  69     176.828  84.341   8.406  1.00 49.73      LS12
ATOM  45282  CZ  TYR L  69     178.083  84.487   7.869  1.00 49.73      LS12
ATOM  45283  OH  TYR L  69     178.970  85.330   8.479  1.00 49.73      LS12
ATOM  45284  C   TYR L  69     175.419  80.069   7.362  1.00 27.22      LS12
ATOM  45285  O   TYR L  69     174.462  79.392   7.741  1.00 27.22      LS12
ATOM  45286  N   ILE L  70     176.421  80.405   8.165  1.00 50.60      LS12
ATOM  45287  CA  ILE L  70     176.432  80.018   9.568  1.00 50.60      LS12
ATOM  45288  CB  ILE L  70     177.548  79.031   9.884  1.00 36.42      LS12
ATOM  45289  CG2 ILE L  70     177.359  78.506  11.279  1.00 36.42      LS12
ATOM  45290  CG1 ILE L  70     177.497  77.857   8.907  1.00 36.42      LS12
ATOM  45291  CD1 ILE L  70     178.565  76.808   9.106  1.00 36.42      LS12
ATOM  45292  C   ILE L  70     176.652  81.277  10.377  1.00 50.60      LS12
ATOM  45293  O   ILE L  70     177.773  81.747  10.523  1.00 50.60      LS12
ATOM  45294  N   PRO L  71     175.568  81.845  10.910  1.00 49.97      LS12
ATOM  45295  CD  PRO L  71     174.207  81.293  10.817  1.00 51.91      LS12
ATOM  45296  CA  PRO L  71     175.581  83.066  11.714  1.00 49.97      LS12
ATOM  45297  CB  PRO L  71     174.118  83.454  11.742  1.00 51.91      LS12
ATOM  45298  CG  PRO L  71     173.458  82.117  11.832  1.00 51.91      LS12
ATOM  45299  C   PRO L  71     176.144  82.846  13.103  1.00 49.97      LS12
ATOM  45300  O   PRO L  71     176.092  81.742  13.628  1.00 49.97      LS12
ATOM  45301  N   GLY L  72     176.689  83.901  13.693  1.00 59.69      LS12
ATOM  45302  CA  GLY L  72     177.248  83.776  15.025  1.00 59.69      LS12
ATOM  45303  C   GLY L  72     178.752  83.577  15.073  1.00 59.69      LS12
ATOM  45304  O   GLY L  72     179.402  83.406  14.040  1.00 59.69      LS12
ATOM  45305  N   GLU L  73     179.294  83.603  16.291  1.00 91.70      LS12
ATOM  45306  CA  GLU L  73     180.721  83.432  16.537  1.00 91.70      LS12
ATOM  45307  CB  GLU L  73     181.007  83.489  18.039  1.00135.61      LS12
ATOM  45308  CG  GLU L  73     180.729  84.848  18.684  1.00135.61      LS12
ATOM  45309  CD  GLU L  73     181.614  85.966  18.139  1.00135.61      LS12
ATOM  45310  OE1 GLU L  73     181.573  87.091  18.688  1.00135.61      LS12
ATOM  45311  OE2 GLU L  73     182.349  85.721  17.161  1.00135.61      LS12
ATOM  45312  C   GLU L  73     181.235  82.122  15.964  1.00 91.70      LS12
ATOM  45313  O   GLU L  73     181.737  82.092  14.847  1.00 91.70      LS12
ATOM  45314  N   GLY L  74     181.112  81.033  16.713  1.00 55.24      LS12
ATOM  45315  CA  GLY L  74     181.592  79.762  16.188  1.00 55.24      LS12
ATOM  45316  C   GLY L  74     180.513  78.694  16.149  1.00 55.24      LS12
ATOM  45317  O   GLY L  74     179.476  78.858  16.799  1.00 55.24      LS12
ATOM  45318  N   HIS L  75     180.734  77.609  15.406  1.00 80.92      LS12
ATOM  45319  CA  HIS L  75     179.730  76.547  15.343  1.00 80.92      LS12
ATOM  45320  CB  HIS L  75     179.085  76.472  13.956  1.00 57.02      LS12
ATOM  45321  CG  HIS L  75     180.048  76.228  12.834  1.00 57.02      LS12
ATOM  45322  CD2 HIS L  75     180.239  75.142  12.046  1.00 57.02      LS12
ATOM  45323  ND1 HIS L  75     180.903  77.200  12.358  1.00 57.02      LS12
ATOM  45324  CE1 HIS L  75     181.573  76.727  11.322  1.00 57.02      LS12
ATOM  45325  NE2 HIS L  75     181.189  75.480  11.112  1.00 57.02      LS12
ATOM  45326  C   HIS L  75     180.219  75.164  15.727  1.00 80.92      LS12
ATOM  45327  O   HIS L  75     181.130  75.016  16.537  1.00 80.92      LS12
ATOM  45328  N   ASN L  76     179.582  74.151  15.148  1.00 47.58      LS12
ATOM  45329  CA  ASN L  76     179.928  72.758  15.402  1.00 47.58      LS12
ATOM  45330  CB  ASN L  76     179.381  72.313  16.755  1.00 72.77      LS12
ATOM  45331  CG  ASN L  76     177.861  72.310  16.796  1.00 72.77      LS12
ATOM  45332  OD1 ASN L  76     177.219  73.333  16.549  1.00 72.77      LS12
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ATOM  45333  ND2 ASN L  76     177.278  71.156  17.110  1.00 72.77       LS12
ATOM  45334  C   ASN L  76     179.285  71.926  14.303  1.00 47.58       LS12
ATOM  45335  O   ASN L  76     178.656  70.896  14.568  1.00 47.58       LS12
ATOM  45336  N   LEU L  77     179.441  72.373  13.063  1.00 57.32       LS12
ATOM  45337  CA  LEU L  77     178.836  71.668  11.947  1.00 57.32       LS12
ATOM  45338  CB  LEU L  77     178.132  72.665  11.032  1.00 42.92       LS12
ATOM  45339  CG  LEU L  77     177.065  73.537  11.702  1.00 42.92       LS12
ATOM  45340  CD1 LEU L  77     176.421  74.389  10.631  1.00 42.92       LS12
ATOM  45341  CD2 LEU L  77     176.022  72.683  12.428  1.00 42.92       LS12
ATOM  45342  C   LEU L  77     179.860  70.883  11.168  1.00 57.32       LS12
ATOM  45343  O   LEU L  77     180.948  71.379  10.899  1.00 57.32       LS12
ATOM  45344  N   GLN L  78     179.504  69.655  10.803  1.00 75.10       LS12
ATOM  45345  CA  GLN L  78     180.409  68.788  10.062  1.00 75.10       LS12
ATOM  45346  CB  GLN L  78     180.949  67.694  10.970  1.00131.78       LS12
ATOM  45347  CG  GLN L  78     181.547  68.203  12.250  1.00131.78       LS12
ATOM  45348  CD  GLN L  78     182.167  67.091  13.048  1.00131.78       LS12
ATOM  45349  OE1 GLN L  78     183.182  66.523  12.649  1.00131.78       LS12
ATOM  45350  NE2 GLN L  78     181.553  66.758  14.177  1.00131.78       LS12
ATOM  45351  C   GLN L  78     179.763  68.134   8.855  1.00 75.10       LS12
ATOM  45352  O   GLN L  78     178.561  68.255   8.637  1.00 75.10       LS12
ATOM  45353  N   GLU L  79     180.587  67.420   8.097  1.00107.89       LS12
ATOM  45354  CA  GLU L  79     180.170  66.729   6.887  1.00107.89       LS12
ATOM  45355  CB  GLU L  79     181.236  65.724   6.458  1.00195.85       LS12
ATOM  45356  CG  GLU L  79     182.523  66.344   5.967  1.00195.85       LS12
ATOM  45357  CD  GLU L  79     183.461  65.310   5.388  1.00195.85       LS12
ATOM  45358  OE1 GLU L  79     183.052  64.609   4.436  1.00195.85       LS12
ATOM  45359  OE2 GLU L  79     184.603  65.196   5.885  1.00195.85       LS12
ATOM  45360  C   GLU L  79     178.841  66.006   6.957  1.00107.89       LS12
ATOM  45361  O   GLU L  79     178.274  65.672   5.920  1.00107.89       LS12
ATOM  45362  N   HIS L  80     178.334  65.745   8.155  1.00 59.73       LS12
ATOM  45363  CA  HIS L  80     177.063  65.041   8.247  1.00 59.73       LS12
ATOM  45364  CB  HIS L  80     177.320  63.595   8.663  1.00 88.33       LS12
ATOM  45365  CG  HIS L  80     178.101  62.811   7.655  1.00 88.33       LS12
ATOM  45366  CD2 HIS L  80     179.385  62.381   7.660  1.00 88.33       LS12
ATOM  45367  ND1 HIS L  80     177.568  62.411   6.448  1.00 88.33       LS12
ATOM  45368  CE1 HIS L  80     178.490  61.770   5.752  1.00 88.33       LS12
ATOM  45369  NE2 HIS L  80     179.602  61.739   6.464  1.00 88.33       LS12
ATOM  45370  C   HIS L  80     176.045  65.688   9.182  1.00 59.73       LS12
ATOM  45371  O   HIS L  80     175.072  65.045   9.586  1.00 59.73       LS12
ATOM  45372  N   SER L  81     176.263  66.960   9.518  1.00 52.37       LS12
ATOM  45373  CA  SER L  81     175.354  67.688  10.402  1.00 52.37       LS12
ATOM  45374  CB  SER L  81     175.984  69.009  10.856  1.00 62.57       LS12
ATOM  45375  OG  SER L  81     177.099  68.807  11.703  1.00 62.57       LS12
ATOM  45376  C   SER L  81     174.007  67.998   9.756  1.00 52.37       LS12
ATOM  45377  O   SER L  81     173.932  68.647   8.710  1.00 52.37       LS12
ATOM  45378  N   VAL L  82     172.944  67.515  10.382  1.00 75.35       LS12
ATOM  45379  CA  VAL L  82     171.600  67.786   9.904  1.00 75.35       LS12
ATOM  45380  CB  VAL L  82     170.587  66.829  10.521  1.00 42.65       LS12
ATOM  45381  CG1 VAL L  82     169.378  67.591  11.001  1.00 42.65       LS12
ATOM  45382  CG2 VAL L  82     170.179  65.796   9.496  1.00 42.65       LS12
ATOM  45383  C   VAL L  82     171.319  69.190  10.402  1.00 75.35       LS12
ATOM  45384  O   VAL L  82     171.601  69.511  11.560  1.00 75.35       LS12
ATOM  45385  N   VAL L  83     170.748  70.029   9.553  1.00 36.54       LS12
ATOM  45386  CA  VAL L  83     170.512  71.392   9.977  1.00 36.54       LS12
ATOM  45387  CB  VAL L  83     171.731  72.242   9.596  1.00 45.93       LS12
ATOM  45388  CG1 VAL L  83     172.074  72.021   8.149  1.00 45.93       LS12
ATOM  45389  CG2 VAL L  83     171.454  73.681   9.835  1.00 45.93       LS12
ATOM  45390  C   VAL L  83     169.249  71.951   9.354  1.00 36.54       LS12
ATOM  45391  O   VAL L  83     168.772  71.418   8.360  1.00 36.54       LS12
ATOM  45392  N   LEU L  84     168.685  73.001   9.953  1.00 44.30       LS12
ATOM  45393  CA  LEU L  84     167.478  73.626   9.409  1.00 44.30       LS12
ATOM  45394  CB  LEU L  84     166.438  73.895  10.490  1.00 45.66       LS12
ATOM  45395  CG  LEU L  84     165.214  74.523   9.828  1.00 45.66       LS12
ATOM  45396  CD1 LEU L  84     164.638  73.505   8.864  1.00 45.66       LS12
ATOM  45397  CD2 LEU L  84     164.175  74.948  10.850  1.00 45.66       LS12
ATOM  45398  C   LEU L  84     167.812  74.942   8.724  1.00 44.30       LS12
ATOM  45399  O   LEU L  84     168.418  75.831   9.319  1.00 44.30       LS12
ATOM  45400  N   ILE L  85     167.386  75.051   7.471  1.00 40.26       LS12
ATOM  45401  CA  ILE L  85     167.643  76.220   6.647  1.00 40.26       LS12
ATOM  45402  CB  ILE L  85     167.924  75.746   5.216  1.00 44.52       LS12
ATOM  45403  CG2 ILE L  85     167.265  76.620   4.197  1.00 44.52       LS12
ATOM  45404  CG1 ILE L  85     169.429  75.702   5.015  1.00 44.52       LS12
ATOM  45405  CD1 ILE L  85     169.820  75.330   3.619  1.00 44.52       LS12
ATOM  45406  C   ILE L  85     166.510  77.243   6.705  1.00 40.26       LS12
ATOM  45407  O   ILE L  85     165.340  76.868   6.769  1.00 40.26       LS12
ATOM  45408  N   ARG L  86     166.849  78.534   6.693  1.00 36.24       LS12
ATOM  45409  CA  ARG L  86     165.809  79.550   6.782  1.00 36.24       LS12
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ATOM  45410  CB  ARG L  86     165.930  80.366   8.071  1.00 36.03      LS12
ATOM  45411  CG  ARG L  86     166.689  81.691   7.945  1.00 36.03      LS12
ATOM  45412  CD  ARG L  86     166.644  82.424   9.272  1.00 36.03      LS12
ATOM  45413  NE  ARG L  86     167.890  83.108   9.611  1.00 36.03      LS12
ATOM  45414  CZ  ARG L  86     168.280  84.264   9.081  1.00 36.03      LS12
ATOM  45415  NH1 ARG L  86     167.513  84.870   8.185  1.00 36.03      LS12
ATOM  45416  NH2 ARG L  86     169.438  84.817   9.439  1.00 36.03      LS12
ATOM  45417  C   ARG L  86     165.757  80.529   5.644  1.00 36.24      LS12
ATOM  45418  O   ARG L  86     164.725  81.152   5.405  1.00 36.24      LS12
ATOM  45419  N   GLY L  87     166.852  80.709   4.936  1.00 33.95      LS12
ATOM  45420  CA  GLY L  87     166.765  81.679   3.869  1.00 33.95      LS12
ATOM  45421  C   GLY L  87     166.929  83.101   4.384  1.00 33.95      LS12
ATOM  45422  O   GLY L  87     166.196  83.575   5.242  1.00 33.95      LS12
ATOM  45423  N   GLY L  88     167.929  83.761   3.820  1.00 49.40      LS12
ATOM  45424  CA  GLY L  88     168.284  85.119   4.152  1.00 49.40      LS12
ATOM  45425  C   GLY L  88     169.642  85.187   3.502  1.00 49.40      LS12
ATOM  45426  O   GLY L  88     170.526  84.426   3.877  1.00 49.40      LS12
ATOM  45427  N   ARG L  89     169.812  86.057   2.513  1.00 51.34      LS12
ATOM  45428  CA  ARG L  89     171.087  86.160   1.817  1.00 51.34      LS12
ATOM  45429  CB  ARG L  89     170.917  86.930   0.500  1.00184.18      LS12
ATOM  45430  CG  ARG L  89     169.949  86.247  -0.470  1.00184.18      LS12
ATOM  45431  CD  ARG L  89     170.218  86.598  -1.935  1.00184.18      LS12
ATOM  45432  NE  ARG L  89     169.322  85.879  -2.845  1.00184.18      LS12
ATOM  45433  CZ  ARG L  89     169.434  85.877  -4.172  1.00184.18      LS12
ATOM  45434  NH1 ARG L  89     170.409  86.555  -4.763  1.00184.18      LS12
ATOM  45435  NH2 ARG L  89     168.568  85.196  -4.912  1.00184.18      LS12
ATOM  45436  C   ARG L  89     172.188  86.784   2.661  1.00 51.34      LS12
ATOM  45437  O   ARG L  89     171.975  87.177   3.806  1.00 51.34      LS12
ATOM  45438  N   VAL L  90     173.378  86.832   2.081  1.00 44.50      LS12
ATOM  45439  CA  VAL L  90     174.566  87.396   2.708  1.00 44.50      LS12
ATOM  45440  CB  VAL L  90     175.585  86.295   3.026  1.00 42.22      LS12
ATOM  45441  CG1 VAL L  90     176.788  86.891   3.692  1.00 42.22      LS12
ATOM  45442  CG2 VAL L  90     174.956  85.244   3.904  1.00 42.22      LS12
ATOM  45443  C   VAL L  90     175.152  88.317   1.646  1.00 44.50      LS12
ATOM  45444  O   VAL L  90     175.849  87.863   0.742  1.00 44.50      LS12
ATOM  45445  N   LYS L  91     174.850  89.603   1.743  1.00 53.11      LS12
ATOM  45446  CA  LYS L  91     175.316  90.576   0.762  1.00 53.11      LS12
ATOM  45447  CB  LYS L  91     175.117  91.988   1.314  1.00 51.49      LS12
ATOM  45448  CG  LYS L  91     175.674  93.092   0.449  1.00 51.49      LS12
ATOM  45449  CD  LYS L  91     174.741  93.457  -0.683  1.00 51.49      LS12
ATOM  45450  CE  LYS L  91     175.456  94.308  -1.742  1.00 51.49      LS12
ATOM  45451  NZ  LYS L  91     176.040  95.582  -1.221  1.00 51.49      LS12
ATOM  45452  C   LYS L  91     176.772  90.401   0.309  1.00 53.11      LS12
ATOM  45453  O   LYS L  91     177.111  90.739  -0.828  1.00 53.11      LS12
ATOM  45454  N   ASP L  92     177.619  89.852   1.183  1.00 46.31      LS12
ATOM  45455  CA  ASP L  92     179.043  89.674   0.898  1.00 46.31      LS12
ATOM  45456  CB  ASP L  92     179.832  89.815   2.179  1.00 55.53      LS12
ATOM  45457  CG  ASP L  92     180.222  91.223   2.427  1.00 55.53      LS12
ATOM  45458  OD1 ASP L  92     179.769  92.102   1.642  1.00 55.53      LS12
ATOM  45459  OD2 ASP L  92     180.979  91.445   3.395  1.00 55.53      LS12
ATOM  45460  C   ASP L  92     179.514  88.429   0.209  1.00 46.31      LS12
ATOM  45461  O   ASP L  92     180.578  88.426  -0.390  1.00 46.31      LS12
ATOM  45462  N   LEU L  93     178.743  87.367   0.315  1.00 46.90      LS12
ATOM  45463  CA  LEU L  93     179.120  86.115  -0.295  1.00 46.90      LS12
ATOM  45464  CB  LEU L  93     179.036  85.002   0.736  1.00 57.25      LS12
ATOM  45465  CG  LEU L  93     179.321  85.451   2.163  1.00 57.25      LS12
ATOM  45466  CD1 LEU L  93     178.897  84.361   3.122  1.00 57.25      LS12
ATOM  45467  CD2 LEU L  93     180.797  85.787   2.315  1.00 57.25      LS12
ATOM  45468  C   LEU L  93     178.138  85.827  -1.400  1.00 46.90      LS12
ATOM  45469  O   LEU L  93     177.112  85.193  -1.157  1.00 46.90      LS12
ATOM  45470  N   PRO L  94     178.416  86.288  -2.628  1.00 74.69      LS12
ATOM  45471  CD  PRO L  94     179.564  87.016  -3.189  1.00 59.58      LS12
ATOM  45472  CA  PRO L  94     177.435  85.984  -3.669  1.00 74.69      LS12
ATOM  45473  CB  PRO L  94     178.096  86.526  -4.936  1.00 59.58      LS12
ATOM  45474  CG  PRO L  94     178.960  87.636  -4.430  1.00 59.58      LS12
ATOM  45475  C   PRO L  94     177.245  84.471  -3.711  1.00 74.69      LS12
ATOM  45476  O   PRO L  94     178.214  83.715  -3.596  1.00 74.69      LS12
ATOM  45477  N   GLY L  95     176.002  84.029  -3.840  1.00 57.91      LS12
ATOM  45478  CA  GLY L  95     175.758  82.605  -3.902  1.00 57.91      LS12
ATOM  45479  C   GLY L  95     175.283  82.015  -2.598  1.00 57.91      LS12
ATOM  45480  O   GLY L  95     175.120  80.803  -2.487  1.00 57.91      LS12
ATOM  45481  N   VAL L  96     175.074  82.862  -1.599  1.00 39.24      LS12
ATOM  45482  CA  VAL L  96     174.590  82.391  -0.311  1.00 39.24      LS12
ATOM  45483  CB  VAL L  96     175.538  82.747   0.829  1.00 35.16      LS12
ATOM  45484  CG1 VAL L  96     175.262  81.828   2.022  1.00 35.16      LS12
ATOM  45485  CG2 VAL L  96     176.977  82.629   0.364  1.00 35.16      LS12
ATOM  45486  C   VAL L  96     173.291  83.122  -0.092  1.00 39.24      LS12
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ATOM  45487  O   VAL L  96     173.289  84.295   0.263  1.00 39.24      LS12
ATOM  45488  N   ARG L  97     172.184  82.425  -0.307  1.00 44.02      LS12
ATOM  45489  CA  ARG L  97     170.874  83.028  -0.175  1.00 44.02      LS12
ATOM  45490  CB  ARG L  97     170.090  82.759  -1.454  1.00 72.48      LS12
ATOM  45491  CG  ARG L  97     170.880  83.118  -2.694  1.00 72.48      LS12
ATOM  45492  CD  ARG L  97     170.564  82.179  -3.831  1.00 72.48      LS12
ATOM  45493  NE  ARG L  97     169.502  82.680  -4.690  1.00 72.48      LS12
ATOM  45494  CZ  ARG L  97     168.784  81.913  -5.500  1.00 72.48      LS12
ATOM  45495  NH1 ARG L  97     169.010  80.606  -5.555  1.00 72.48      LS12
ATOM  45496  NH2 ARG L  97     167.848  82.457  -6.264  1.00 72.48      LS12
ATOM  45497  C   ARG L  97     170.091  82.541   1.035  1.00 44.02      LS12
ATOM  45498  O   ARG L  97     168.987  83.011   1.285  1.00 44.02      LS12
ATOM  45499  N   TYR L  98     170.660  81.611   1.794  1.00 37.18      LS12
ATOM  45500  CA  TYR L  98     169.965  81.089   2.958  1.00 37.18      LS12
ATOM  45501  CB  TYR L  98     169.414  79.690   2.656  1.00 51.55      LS12
ATOM  45502  CG  TYR L  98     168.845  79.545   1.261  1.00 51.55      LS12
ATOM  45503  CD1 TYR L  98     169.679  79.481   0.149  1.00 51.55      LS12
ATOM  45504  CE1 TYR L  98     169.155  79.388  -1.146  1.00 51.55      LS12
ATOM  45505  CD2 TYR L  98     167.471  79.510   1.048  1.00 51.55      LS12
ATOM  45506  CE2 TYR L  98     166.930  79.417  -0.246  1.00 51.55      LS12
ATOM  45507  CZ  TYR L  98     167.775  79.355  -1.338  1.00 51.55      LS12
ATOM  45508  OH  TYR L  98     167.251  79.244  -2.614  1.00 51.55      LS12
ATOM  45509  C   TYR L  98     170.872  81.043   4.184  1.00 37.18      LS12
ATOM  45510  O   TYR L  98     172.089  80.925   4.069  1.00 37.18      LS12
ATOM  45511  N   HIS L  99     170.262  81.159   5.358  1.00 47.75      LS12
ATOM  45512  CA  HIS L  99     170.979  81.110   6.625  1.00 47.75      LS12
ATOM  45513  CB  HIS L  99     170.527  82.215   7.574  1.00 35.29      LS12
ATOM  45514  CG  HIS L  99     171.252  83.505   7.410  1.00 35.29      LS12
ATOM  45515  CD2 HIS L  99     171.967  84.240   8.292  1.00 35.29      LS12
ATOM  45516  ND1 HIS L  99     171.250  84.213   6.231  1.00 35.29      LS12
ATOM  45517  CE1 HIS L  99     171.931  85.333   6.394  1.00 35.29      LS12
ATOM  45518  NE2 HIS L  99     172.377  85.375   7.637  1.00 35.29      LS12
ATOM  45519  C   HIS L  99     170.617  79.813   7.296  1.00 47.75      LS12
ATOM  45520  O   HIS L  99     169.586  79.209   6.999  1.00 47.75      LS12
ATOM  45521  N   ILE L 100     171.457  79.409   8.232  1.00 44.99      LS12
ATOM  45522  CA  ILE L 100     171.210  78.204   8.985  1.00 44.99      LS12
ATOM  45523  CB  ILE L 100     172.495  77.400   9.175  1.00 39.04      LS12
ATOM  45524  CG2 ILE L 100     172.417  76.580  10.462  1.00 39.04      LS12
ATOM  45525  CG1 ILE L 100     172.733  76.548   7.926  1.00 39.04      LS12
ATOM  45526  CD1 ILE L 100     174.014  75.788   7.929  1.00 39.04      LS12
ATOM  45527  C   ILE L 100     170.676  78.634  10.331  1.00 44.99      LS12
ATOM  45528  O   ILE L 100     171.281  79.451  11.016  1.00 44.99      LS12
ATOM  45529  N   VAL L 101     169.525  78.105  10.705  1.00 48.61      LS12
ATOM  45530  CA  VAL L 101     168.954  78.463  11.986  1.00 48.61      LS12
ATOM  45531  CB  VAL L 101     167.555  77.919  12.151  1.00 24.49      LS12
ATOM  45532  CG1 VAL L 101     167.097  78.144  13.576  1.00 24.49      LS12
ATOM  45533  CG2 VAL L 101     166.627  78.575  11.164  1.00 24.49      LS12
ATOM  45534  C   VAL L 101     169.777  77.846  13.080  1.00 48.61      LS12
ATOM  45535  O   VAL L 101     169.783  76.627  13.221  1.00 48.61      LS12
ATOM  45536  N   ARG L 102     170.465  78.670  13.858  1.00 33.89      LS12
ATOM  45537  CA  ARG L 102     171.262  78.135  14.951  1.00 33.89      LS12
ATOM  45538  CB  ARG L 102     172.271  79.162  15.433  1.00 48.75      LS12
ATOM  45539  CG  ARG L 102     173.136  79.626  14.295  1.00 48.75      LS12
ATOM  45540  CD  ARG L 102     174.540  79.881  14.731  1.00 48.75      LS12
ATOM  45541  NE  ARG L 102     174.989  78.895  15.704  1.00 48.75      LS12
ATOM  45542  CZ  ARG L 102     176.259  78.709  16.034  1.00 48.75      LS12
ATOM  45543  NH1 ARG L 102     177.212  79.431  15.456  1.00 48.75      LS12
ATOM  45544  NH2 ARG L 102     176.568  77.827  16.969  1.00 48.75      LS12
ATOM  45545  C   ARG L 102     170.314  77.751  16.062  1.00 33.89      LS12
ATOM  45546  O   ARG L 102     169.346  78.446  16.332  1.00 33.89      LS12
ATOM  45547  N   GLY L 103     170.574  76.620  16.690  1.00 50.91      LS12
ATOM  45548  CA  GLY L 103     169.695  76.196  17.748  1.00 50.91      LS12
ATOM  45549  C   GLY L 103     168.682  75.197  17.246  1.00 50.91      LS12
ATOM  45550  O   GLY L 103     167.726  74.878  17.945  1.00 50.91      LS12
ATOM  45551  N   VAL L 104     168.863  74.706  16.028  1.00 65.80      LS12
ATOM  45552  CA  VAL L 104     167.943  73.702  15.513  1.00 65.80      LS12
ATOM  45553  CB  VAL L 104     166.986  74.268  14.444  1.00 66.58      LS12
ATOM  45554  CG1 VAL L 104     166.050  73.161  13.945  1.00 66.58      LS12
ATOM  45555  CG2 VAL L 104     166.172  75.408  15.035  1.00 66.58      LS12
ATOM  45556  C   VAL L 104     168.739  72.560  14.917  1.00 65.80      LS12
ATOM  45557  O   VAL L 104     169.555  72.769  14.019  1.00 65.80      LS12
ATOM  45558  N   TYR L 105     168.501  71.361  15.444  1.00 73.96      LS12
ATOM  45559  CA  TYR L 105     169.176  70.147  14.999  1.00 73.96      LS12
ATOM  45560  CB  TYR L 105     169.135  70.071  13.472  1.00 53.95      LS12
ATOM  45561  CG  TYR L 105     167.718  69.974  12.950  1.00 53.95      LS12
ATOM  45562  CD1 TYR L 105     167.411  70.294  11.626  1.00 53.95      LS12
ATOM  45563  CE1 TYR L 105     166.105  70.203  11.156  1.00 53.95      LS12
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ATOM  45564  CD2 TYR L 105     166.677  69.556  13.789  1.00 53.95      LS12
ATOM  45565  CE2 TYR L 105     165.375  69.459  13.326  1.00 53.95      LS12
ATOM  45566  CZ  TYR L 105     165.094  69.787  12.014  1.00 53.95      LS12
ATOM  45567  OH  TYR L 105     163.793  69.725  11.571  1.00 53.95      LS12
ATOM  45568  C   TYR L 105     170.608  70.044  15.511  1.00 73.96      LS12
ATOM  45569  O   TYR L 105     170.858  70.180  16.708  1.00 73.96      LS12
ATOM  45570  N   ASP L 106     171.546  69.799  14.606  1.00 72.43      LS12
ATOM  45571  CA  ASP L 106     172.944  69.673  14.989  1.00 72.43      LS12
ATOM  45572  CB  ASP L 106     173.676  68.807  13.970  1.00 70.07      LS12
ATOM  45573  CG  ASP L 106     173.064  67.438  13.835  1.00 70.07      LS12
ATOM  45574  OD1 ASP L 106     173.497  66.694  12.931  1.00 70.07      LS12
ATOM  45575  OD2 ASP L 106     172.157  67.105  14.632  1.00 70.07      LS12
ATOM  45576  C   ASP L 106     173.624  71.030  15.091  1.00 72.43      LS12
ATOM  45577  O   ASP L 106     174.819  71.122  15.370  1.00 72.43      LS12
ATOM  45578  N   ALA L 107     172.861  72.087  14.863  1.00 59.29      LS12
ATOM  45579  CA  ALA L 107     173.423  73.417  14.928  1.00 59.29      LS12
ATOM  45580  CB  ALA L 107     172.757  74.309  13.908  1.00 54.35      LS12
ATOM  45581  C   ALA L 107     173.263  73.997  16.323  1.00 59.29      LS12
ATOM  45582  O   ALA L 107     172.256  74.633  16.632  1.00 59.29      LS12
ATOM  45583  N   ALA L 108     174.259  73.769  17.169  1.00 46.53      LS12
ATOM  45584  CA  ALA L 108     174.218  74.289  18.520  1.00 46.53      LS12
ATOM  45585  CB  ALA L 108     175.536  74.017  19.221  1.00129.89      LS12
ATOM  45586  C   ALA L 108     173.964  75.788  18.438  1.00 46.53      LS12
ATOM  45587  O   ALA L 108     174.138  76.399  17.377  1.00 46.53      LS12
ATOM  45588  N   GLY L 109     173.550  76.369  19.561  1.00 45.64      LS12
ATOM  45589  CA  GLY L 109     173.279  77.794  19.603  1.00 45.64      LS12
ATOM  45590  C   GLY L 109     174.430  78.617  20.151  1.00 45.64      LS12
ATOM  45591  O   GLY L 109     174.820  78.450  21.301  1.00 45.64      LS12
ATOM  45592  N   VAL L 110     174.964  79.506  19.321  1.00 57.43      LS12
ATOM  45593  CA  VAL L 110     176.077  80.375  19.693  1.00 57.43      LS12
ATOM  45594  CB  VAL L 110     175.885  81.773  19.084  1.00 29.48      LS12
ATOM  45595  CG1 VAL L 110     176.978  82.732  19.591  1.00 29.48      LS12
ATOM  45596  CG2 VAL L 110     175.925  81.671  17.570  1.00 29.48      LS12
ATOM  45597  C   VAL L 110     176.309  80.533  21.199  1.00 57.43      LS12
ATOM  45598  O   VAL L 110     175.551  81.210  21.885  1.00 57.43      LS12
ATOM  45599  N   LYS L 111     177.376  79.927  21.708  1.00 95.99      LS12
ATOM  45600  CA  LYS L 111     177.669  80.012  23.134  1.00 95.99      LS12
ATOM  45601  CB  LYS L 111     178.778  79.025  23.511  1.00200.96      LS12
ATOM  45602  CG  LYS L 111     178.363  77.562  23.433  1.00200.96      LS12
ATOM  45603  CD  LYS L 111     179.475  76.636  23.912  1.00200.96      LS12
ATOM  45604  CE  LYS L 111     179.050  75.171  23.852  1.00200.96      LS12
ATOM  45605  NZ  LYS L 111     180.136  74.246  24.289  1.00200.96      LS12
ATOM  45606  C   LYS L 111     178.063  81.410  23.587  1.00 95.99      LS12
ATOM  45607  O   LYS L 111     178.472  82.246  22.786  1.00 95.99      LS12
ATOM  45608  N   ASP L 112     177.922  81.649  24.886  1.00 74.44      LS12
ATOM  45609  CA  ASP L 112     178.273  82.922  25.498  1.00 74.44      LS12
ATOM  45610  CB  ASP L 112     179.736  83.265  25.208  1.00169.46      LS12
ATOM  45611  CG  ASP L 112     180.702  82.445  26.041  1.00169.46      LS12
ATOM  45612  OD1 ASP L 112     181.928  82.620  25.877  1.00169.46      LS12
ATOM  45613  OD2 ASP L 112     180.234  81.628  26.862  1.00169.46      LS12
ATOM  45614  C   ASP L 112     177.401  84.092  25.103  1.00 74.44      LS12
ATOM  45615  O   ASP L 112     177.497  85.154  25.704  1.00 74.44      LS12
ATOM  45616  N   ARG L 113     176.558  83.909  24.096  1.00 57.09      LS12
ATOM  45617  CA  ARG L 113     175.666  84.981  23.639  1.00 57.09      LS12
ATOM  45618  CB  ARG L 113     174.721  84.462  22.554  1.00 78.83      LS12
ATOM  45619  CG  ARG L 113     175.035  84.990  21.170  1.00 78.83      LS12
ATOM  45620  CD  ARG L 113     174.707  86.469  21.060  1.00 78.83      LS12
ATOM  45621  NE  ARG L 113     175.281  87.064  19.858  1.00 78.83      LS12
ATOM  45622  CZ  ARG L 113     175.036  88.304  19.467  1.00 78.83      LS12
ATOM  45623  NH1 ARG L 113     174.223  89.066  20.182  1.00 78.83      LS12
ATOM  45624  NH2 ARG L 113     175.613  88.784  18.382  1.00 78.83      LS12
ATOM  45625  C   ARG L 113     174.848  85.515  24.797  1.00 57.09      LS12
ATOM  45626  O   ARG L 113     174.438  84.754  25.671  1.00 57.09      LS12
ATOM  45627  N   LYS L 114     174.612  86.818  24.812  1.00 66.75      LS12
ATOM  45628  CA  LYS L 114     173.843  87.402  25.898  1.00 66.75      LS12
ATOM  45629  CB  LYS L 114     174.786  88.017  26.935  1.00137.44      LS12
ATOM  45630  CG  LYS L 114     175.626  86.977  27.662  1.00137.44      LS12
ATOM  45631  CD  LYS L 114     176.579  87.601  28.664  1.00137.44      LS12
ATOM  45632  CE  LYS L 114     177.460  86.536  29.309  1.00137.44      LS12
ATOM  45633  NZ  LYS L 114     178.487  87.107  30.235  1.00137.44      LS12
ATOM  45634  C   LYS L 114     172.842  88.436  25.418  1.00 66.75      LS12
ATOM  45635  O   LYS L 114     171.881  88.757  26.119  1.00 66.75      LS12
ATOM  45636  N   LYS L 115     173.043  88.935  24.208  1.00 97.20      LS12
ATOM  45637  CA  LYS L 115     172.140  89.933  23.678  1.00 97.20      LS12
ATOM  45638  CB  LYS L 115     172.948  91.001  22.972  1.00 62.08      LS12
ATOM  45639  CG  LYS L 115     173.942  91.694  23.883  1.00 62.08      LS12
ATOM  45640  CD  LYS L 115     173.456  93.066  24.313  1.00 62.08      LS12
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ATOM  45641  CE  LYS L 115     174.577  93.894  24.923  1.00 62.08      LS12
ATOM  45642  NZ  LYS L 115     174.086  95.264  25.264  1.00 62.08      LS12
ATOM  45643  C   LYS L 115     171.042  89.400  22.756  1.00 97.20      LS12
ATOM  45644  O   LYS L 115     169.979  88.977  23.227  1.00 97.20      LS12
ATOM  45645  N   SER L 116     171.287  89.407  21.449  1.00 35.37      LS12
ATOM  45646  CA  SER L 116     170.269  88.950  20.502  1.00 35.37      LS12
ATOM  45647  CB  SER L 116     170.649  89.367  19.081  1.00 62.25      LS12
ATOM  45648  OG  SER L 116     170.736  90.779  18.961  1.00 62.25      LS12
ATOM  45649  C   SER L 116     170.056  87.445  20.561  1.00 35.37      LS12
ATOM  45650  O   SER L 116     169.789  86.809  19.551  1.00 35.37      LS12
ATOM  45651  N   ARG L 117     170.144  86.892  21.763  1.00 46.80      LS12
ATOM  45652  CA  ARG L 117     170.004  85.456  21.987  1.00 46.80      LS12
ATOM  45653  CB  ARG L 117     169.811  85.166  23.485  1.00 66.80      LS12
ATOM  45654  CG  ARG L 117     170.833  85.814  24.431  1.00 66.80      LS12
ATOM  45655  CD  ARG L 117     170.763  85.182  25.813  1.00 66.80      LS12
ATOM  45656  NE  ARG L 117     169.515  84.446  25.967  1.00 66.80      LS12
ATOM  45657  CZ  ARG L 117     168.383  84.966  26.424  1.00 66.80      LS12
ATOM  45658  NH1 ARG L 117     168.325  86.238  26.798  1.00 66.80      LS12
ATOM  45659  NH2 ARG L 117     167.294  84.216  26.468  1.00 66.80      LS12
ATOM  45660  C   ARG L 117     168.897  84.748  21.211  1.00 46.80      LS12
ATOM  45661  O   ARG L 117     169.095  83.617  20.779  1.00 46.80      LS12
ATOM  45662  N   SER L 118     167.743  85.402  21.047  1.00 38.46      LS12
ATOM  45663  CA  SER L 118     166.594  84.811  20.344  1.00 38.46      LS12
ATOM  45664  CB  SER L 118     165.497  85.846  20.120  1.00 59.17      LS12
ATOM  45665  OG  SER L 118     164.286  85.208  19.789  1.00 59.17      LS12
ATOM  45666  C   SER L 118     167.049  84.278  19.013  1.00 38.46      LS12
ATOM  45667  O   SER L 118     166.615  83.224  18.567  1.00 38.46      LS12
ATOM  45668  N   LYS L 119     167.907  85.052  18.368  1.00 53.30      LS12
ATOM  45669  CA  LYS L 119     168.508  84.658  17.112  1.00 53.30      LS12
ATOM  45670  CB  LYS L 119     168.881  85.901  16.333  1.00 22.70      LS12
ATOM  45671  CG  LYS L 119     167.817  86.989  16.443  1.00 22.70      LS12
ATOM  45672  CD  LYS L 119     168.166  88.231  15.612  1.00 22.70      LS12
ATOM  45673  CE  LYS L 119     167.058  89.269  15.663  1.00 22.70      LS12
ATOM  45674  NZ  LYS L 119     167.290  90.401  14.724  1.00 22.70      LS12
ATOM  45675  C   LYS L 119     169.747  83.971  17.670  1.00 53.30      LS12
ATOM  45676  O   LYS L 119     170.146  84.272  18.793  1.00 53.30      LS12
ATOM  45677  N   TYR L 120     170.363  83.057  16.934  1.00 59.97      LS12
ATOM  45678  CA  TYR L 120     171.531  82.355  17.478  1.00 59.97      LS12
ATOM  45679  CB  TYR L 120     172.538  83.332  18.087  1.00 35.77      LS12
ATOM  45680  CG  TYR L 120     172.934  84.463  17.184  1.00 35.77      LS12
ATOM  45681  CD1 TYR L 120     172.671  85.783  17.537  1.00 35.77      LS12
ATOM  45682  CE1 TYR L 120     173.049  86.837  16.716  1.00 35.77      LS12
ATOM  45683  CD2 TYR L 120     173.587  84.220  15.982  1.00 35.77      LS12
ATOM  45684  CE2 TYR L 120     173.974  85.268  15.148  1.00 35.77      LS12
ATOM  45685  CZ  TYR L 120     173.702  86.573  15.522  1.00 35.77      LS12
ATOM  45686  OH  TYR L 120     174.095  87.606  14.701  1.00 35.77      LS12
ATOM  45687  C   TYR L 120     171.084  81.397  18.584  1.00 59.97      LS12
ATOM  45688  O   TYR L 120     171.898  80.965  19.398  1.00 59.97      LS12
ATOM  45689  N   GLY L 121     169.788  81.096  18.604  1.00 61.23      LS12
ATOM  45690  CA  GLY L 121     169.190  80.204  19.588  1.00 61.23      LS12
ATOM  45691  C   GLY L 121     169.900  79.890  20.901  1.00 61.23      LS12
ATOM  45692  O   GLY L 121     170.335  78.756  21.098  1.00 61.23      LS12
ATOM  45693  N   THR L 122     170.004  80.856  21.814  1.00 51.77      LS12
ATOM  45694  CA  THR L 122     170.672  80.602  23.089  1.00 51.77      LS12
ATOM  45695  CB  THR L 122     171.927  81.458  23.240  1.00 62.49      LS12
ATOM  45696  OG1 THR L 122     171.562  82.839  23.218  1.00 62.49      LS12
ATOM  45697  CG2 THR L 122     172.878  81.191  22.104  1.00 62.49      LS12
ATOM  45698  C   THR L 122     169.755  80.866  24.277  1.00 51.77      LS12
ATOM  45699  O   THR L 122     169.338  82.003  24.520  1.00 51.77      LS12
ATOM  45700  N   LYS L 123     169.458  79.801  25.019  1.00 70.04      LS12
ATOM  45701  CA  LYS L 123     168.573  79.855  26.177  1.00 70.04      LS12
ATOM  45702  CB  LYS L 123     168.592  78.523  26.919  1.00 73.83      LS12
ATOM  45703  CG  LYS L 123     168.532  77.289  26.046  1.00 73.83      LS12
ATOM  45704  CD  LYS L 123     167.154  77.039  25.481  1.00 73.83      LS12
ATOM  45705  CE  LYS L 123     167.133  75.715  24.721  1.00 73.83      LS12
ATOM  45706  NZ  LYS L 123     165.840  75.439  24.026  1.00 73.83      LS12
ATOM  45707  C   LYS L 123     168.937  80.947  27.167  1.00 70.04      LS12
ATOM  45708  O   LYS L 123     170.109  81.278  27.338  1.00 70.04      LS12
ATOM  45709  N   LYS L 124     167.917  81.487  27.825  1.00 84.86      LS12
ATOM  45710  CA  LYS L 124     168.087  82.531  28.831  1.00 84.86      LS12
ATOM  45711  CB  LYS L 124     166.715  82.915  29.403  1.00 78.17      LS12
ATOM  45712  CG  LYS L 124     166.714  83.907  30.568  1.00 78.17      LS12
ATOM  45713  CD  LYS L 124     167.012  85.322  30.121  1.00 78.17      LS12
ATOM  45714  CE  LYS L 124     166.658  86.311  31.214  1.00 78.17      LS12
ATOM  45715  NZ  LYS L 124     167.038  87.710  30.862  1.00 78.17      LS12
ATOM  45716  C   LYS L 124     168.972  81.982  29.943  1.00 84.86      LS12
ATOM  45717  O   LYS L 124     168.598  81.034  30.631  1.00 84.86      LS12
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ATOM  45718  N    PRO L 125     170.164  82.560  30.130  1.00 70.19      LS12
ATOM  45719  CD   PRO L 125     170.833  83.642  29.388  1.00 54.71      LS12
ATOM  45720  CA   PRO L 125     171.028  82.047  31.194  1.00 70.19      LS12
ATOM  45721  CB   PRO L 125     172.386  82.641  30.839  1.00 54.71      LS12
ATOM  45722  CG   PRO L 125     172.007  83.979  30.295  1.00 54.71      LS12
ATOM  45723  C    PRO L 125     170.531  82.496  32.564  1.00 70.19      LS12
ATOM  45724  O    PRO L 125     169.813  83.490  32.673  1.00 70.19      LS12
ATOM  45725  N    LYS L 126     170.896  81.747  33.602  1.00 81.54      LS12
ATOM  45726  CA   LYS L 126     170.508  82.081  34.971  1.00 81.54      LS12
ATOM  45727  CB   LYS L 126     170.579  80.846  35.875  1.00159.94      LS12
ATOM  45728  CG   LYS L 126     170.894  79.539  35.152  1.00159.94      LS12
ATOM  45729  CD   LYS L 126     172.327  79.512  34.624  1.00159.94      LS12
ATOM  45730  CE   LYS L 126     172.630  78.211  33.893  1.00159.94      LS12
ATOM  45731  NZ   LYS L 126     174.022  78.175  33.357  1.00159.94      LS12
ATOM  45732  C    LYS L 126     171.521  83.113  35.428  1.00 81.54      LS12
ATOM  45733  O    LYS L 126     172.723  82.923  35.250  1.00 81.54      LS12
ATOM  45734  N    GLU L 127     171.046  84.210  36.003  1.00173.00      LS12
ATOM  45735  CA   GLU L 127     171.956  85.258  36.436  1.00173.00      LS12
ATOM  45736  CB   GLU L 127     171.555  86.589  35.802  1.00160.87      LS12
ATOM  45737  CG   GLU L 127     170.133  87.015  36.095  1.00160.87      LS12
ATOM  45738  CD   GLU L 127     169.767  88.301  35.386  1.00160.87      LS12
ATOM  45739  OE1  GLU L 127     170.442  89.325  35.627  1.00160.87      LS12
ATOM  45740  OE2  GLU L 127     168.808  88.289  34.586  1.00160.87      LS12
ATOM  45741  C    GLU L 127     172.062  85.424  37.940  1.00173.00      LS12
ATOM  45742  O    GLU L 127     171.149  85.066  38.687  1.00173.00      LS12
ATOM  45743  N    ALA L 128     173.194  85.976  38.367  1.00200.96      LS12
ATOM  45744  CA   ALA L 128     173.471  86.215  39.775  1.00200.96      LS12
ATOM  45745  CB   ALA L 128     174.946  86.554  39.960  1.00158.18      LS12
ATOM  45746  C    ALA L 128     172.600  87.351  40.297  1.00200.96      LS12
ATOM  45747  O    ALA L 128     173.167  88.368  40.753  1.00200.96      LS12
ATOM  45748  OXT  ALA L 128     171.360  87.210  40.241  1.00158.18      LS12
TER   45748       ALA L 128                                              LS12
ATOM  45749  CB   ALA M   2     276.493 116.116  -8.027  1.00 79.12      MS13
ATOM  45750  C    ALA M   2     277.625 113.988  -7.390  1.00 88.57      MS13
ATOM  45751  O    ALA M   2     278.009 114.267  -6.261  1.00 88.57      MS13
ATOM  45752  N    ALA M   2     277.144 114.514  -9.787  1.00 88.57      MS13
ATOM  45753  CA   ALA M   2     277.513 115.072  -8.455  1.00 88.57      MS13
ATOM  45754  N    ARG M   3     277.273 112.760  -7.752  1.00 52.44      MS13
ATOM  45755  CA   ARG M   3     277.346 111.617  -6.843  1.00 52.44      MS13
ATOM  45756  CB   ARG M   3     278.551 110.757  -7.221  1.00138.22      MS13
ATOM  45757  CG   ARG M   3     278.327 109.838  -8.401  1.00138.22      MS13
ATOM  45758  CD   ARG M   3     277.515 108.632  -7.977  1.00138.22      MS13
ATOM  45759  NE   ARG M   3     277.497 107.606  -9.009  1.00138.22      MS13
ATOM  45760  CZ   ARG M   3     277.069 106.367  -8.810  1.00138.22      MS13
ATOM  45761  NH1  ARG M   3     276.623 106.003  -7.618  1.00138.22      MS13
ATOM  45762  NH2  ARG M   3     277.098 105.491  -9.800  1.00138.22      MS13
ATOM  45763  C    ARG M   3     277.435 111.940  -5.350  1.00 52.44      MS13
ATOM  45764  O    ARG M   3     278.366 111.490  -4.688  1.00 52.44      MS13
ATOM  45765  N    ILE M   4     276.483 112.693  -4.805  1.00 82.26      MS13
ATOM  45766  CA   ILE M   4     276.554 113.029  -3.385  1.00 82.26      MS13
ATOM  45767  CB   ILE M   4     275.743 114.304  -3.061  1.00 46.11      MS13
ATOM  45768  CG2  ILE M   4     275.728 114.569  -1.550  1.00 46.11      MS13
ATOM  45769  CG1  ILE M   4     276.387 115.497  -3.766  1.00 46.11      MS13
ATOM  45770  CD1  ILE M   4     275.818 116.846  -3.359  1.00 46.11      MS13
ATOM  45771  C    ILE M   4     276.125 111.897  -2.457  1.00 82.26      MS13
ATOM  45772  O    ILE M   4     276.860 110.920  -2.285  1.00 82.26      MS13
ATOM  45773  N    ALA M   5     274.947 112.019  -1.854  1.00 57.73      MS13
ATOM  45774  CA   ALA M   5     274.469 110.993  -0.933  1.00 57.73      MS13
ATOM  45775  CB   ALA M   5     273.047 111.296  -0.513  1.00152.85      MS13
ATOM  45776  C    ALA M   5     274.543 109.618  -1.574  1.00 57.73      MS13
ATOM  45777  O    ALA M   5     274.822 109.495  -2.769  1.00 57.73      MS13
ATOM  45778  N    GLY M   6     274.294 108.588  -0.775  1.00118.24      MS13
ATOM  45779  CA   GLY M   6     274.334 107.229  -1.286  1.00118.24      MS13
ATOM  45780  C    GLY M   6     273.994 107.139  -2.761  1.00118.24      MS13
ATOM  45781  O    GLY M   6     272.833 107.246  -3.149  1.00118.24      MS13
ATOM  45782  N    VAL M   7     275.022 106.958  -3.583  1.00159.29      MS13
ATOM  45783  CA   VAL M   7     274.872 106.842  -5.030  1.00159.29      MS13
ATOM  45784  CB   VAL M   7     274.561 105.369  -5.440  1.00159.50      MS13
ATOM  45785  CG1  VAL M   7     275.730 104.467  -5.066  1.00159.50      MS13
ATOM  45786  CG2  VAL M   7     273.285 104.881  -4.767  1.00159.50      MS13
ATOM  45787  C    VAL M   7     273.829 107.767  -5.666  1.00159.29      MS13
ATOM  45788  O    VAL M   7     272.975 107.319  -6.430  1.00159.29      MS13
ATOM  45789  N    GLU M   8     273.902 109.059  -5.357  1.00 69.31      MS13
ATOM  45790  CA   GLU M   8     272.969 110.028  -5.934  1.00 69.31      MS13
ATOM  45791  CB   GLU M   8     272.775 111.209  -4.985  1.00149.82      MS13
ATOM  45792  CG   GLU M   8     271.871 110.900  -3.807  1.00149.82      MS13
ATOM  45793  CD   GLU M   8     270.484 110.451  -4.237  1.00149.82      MS13
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ATOM  45794  OE1 GLU M   8     269.628 110.231  -3.356  1.00149.82      MS13
ATOM  45795  OE2 GLU M   8     270.246 110.317  -5.455  1.00149.82      MS13
ATOM  45796  C   GLU M   8     273.460 110.533  -7.292  1.00 69.31      MS13
ATOM  45797  O   GLU M   8     274.354 109.937  -7.881  1.00 69.31      MS13
ATOM  45798  N   ILE M   9     272.861 111.611  -7.795  1.00 67.10      MS13
ATOM  45799  CA  ILE M   9     273.253 112.191  -9.082  1.00 67.10      MS13
ATOM  45800  CB  ILE M   9     273.292 111.127 -10.234  1.00128.25      MS13
ATOM  45801  CG2 ILE M   9     274.708 110.584 -10.405  1.00128.25      MS13
ATOM  45802  CG1 ILE M   9     272.255 110.023  -9.995  1.00128.25      MS13
ATOM  45803  CD1 ILE M   9     270.808 110.457 -10.195  1.00128.25      MS13
ATOM  45804  C   ILE M   9     272.388 113.363  -9.572  1.00 67.10      MS13
ATOM  45805  O   ILE M   9     271.660 113.248 -10.556  1.00 67.10      MS13
ATOM  45806  N   PRO M  10     272.450 114.508  -8.892  1.00 92.38      MS13
ATOM  45807  CD  PRO M  10     272.961 114.775  -7.535  1.00 90.07      MS13
ATOM  45808  CA  PRO M  10     271.626 115.618  -9.380  1.00 92.38      MS13
ATOM  45809  CB  PRO M  10     271.337 116.392  -8.104  1.00 90.07      MS13
ATOM  45810  CG  PRO M  10     272.638 116.241  -7.343  1.00 90.07      MS13
ATOM  45811  C   PRO M  10     272.446 116.434 -10.381  1.00 92.38      MS13
ATOM  45812  O   PRO M  10     273.625 116.688 -10.130  1.00 92.38      MS13
ATOM  45813  N   ARG M  11     271.860 116.846 -11.504  1.00121.11      MS13
ATOM  45814  CA  ARG M  11     272.640 117.631 -12.469  1.00121.11      MS13
ATOM  45815  CB  ARG M  11     273.622 116.721 -13.216  1.00166.46      MS13
ATOM  45816  CG  ARG M  11     274.560 117.466 -14.163  1.00166.46      MS13
ATOM  45817  CD  ARG M  11     275.679 116.567 -14.676  1.00166.46      MS13
ATOM  45818  NE  ARG M  11     276.627 117.295 -15.518  1.00166.46      MS13
ATOM  45819  CZ  ARG M  11.    277.738 116.769 -16.027  1.00166.46      MS13
ATOM  45820  NH1 ARG M  11     278.048 115.503 -15.782  1.00166.46      MS13
ATOM  45821  NH2 ARG M  11     278.538 117.508 -16.786  1.00166.46      MS13
ATOM  45822  C   ARG M  11     271.842 118.437 -13.485  1.00121.11      MS13
ATOM  45823  O   ARG M  11     270.704 118.092 -13.802  1.00121.11      MS13
ATOM  45824  N   ASN M  12     272.460 119.510 -13.988  1.00 48.28      MS13
ATOM  45825  CA  ASN M  12     271.848 120.398 -14.982  1.00 48.28      MS13
ATOM  45826  CB  ASN M  12     271.244 119.567 -16.114  1.00 93.33      MS13
ATOM  45827  CG  ASN M  12     271.268 120.291 -17.437  1.00 93.33      MS13
ATOM  45828  OD1 ASN M  12     270.952 121.477 -17.513  1.00 93.33      MS13
ATOM  45829  ND2 ASN M  12     271.639 119.580 -18.492  1.00 93.33      MS13
ATOM  45830  C   ASN M  12     270.777 121.384 -14.431  1.00 48.28      MS13
ATOM  45831  O   ASN M  12     270.357 122.318 -15.128  1.00 48.28      MS13
ATOM  45832  N   LYS M  13     270.331 121.166 -13.193  1.00 53.68      MS13
ATOM  45833  CA  LYS M  13     269.352 122.035 -12.541  1.00 53.68      MS13
ATOM  45834  CB  LYS M  13     268.203 121.208 -11.961  1.00106.23      MS13
ATOM  45835  CG  LYS M  13     267.255 120.568 -12.967  1.00106.23      MS13
ATOM  45836  CD  LYS M  13     266.067 121.474 -13.288  1.00106.23      MS13
ATOM  45837  CE  LYS M  13     264.932 120.685 -13.932  1.00106.23      MS13
ATOM  45838  NZ  LYS M  13     264.405 119.622 -13.020  1.00106.23      MS13
ATOM  45839  C   LYS M  13     270.072 122.726 -11.386  1.00 53.68      MS13
ATOM  45840  O   LYS M  13     271.166 122.321 -11.007  1.00 53.68      MS13
ATOM  45841  N   ARG M  14     269.461 123.760 -10.817  1.00 34.23      MS13
ATOM  45842  CA  ARG M  14     270.053 124.458  -9.678  1.00 34.23      MS13
ATOM  45843  CB  ARG M  14     269.046 125.493  -9.143  1.00 49.85      MS13
ATOM  45844  CG  ARG M  14     268.845 126.650 -10.135  1.00 49.85      MS13
ATOM  45845  CD  ARG M  14     267.662 127.598  -9.848  1.00 49.85      MS13
ATOM  45846  NE  ARG M  14     267.910 128.625  -8.830  1.00 49.85      MS13
ATOM  45847  CZ  ARG M  14     267.824 128.415  -7.519  1.00 49.85      MS13
ATOM  45848  NH1 ARG M  14     267.497 127.214  -7.062  1.00 49.85      MS13
ATOM  45849  NH2 ARG M  14     268.050 129.404  -6.663  1.00 49.85      MS13
ATOM  45850  C   ARG M  14     270.456 123.425  -8.602  1.00 34.23      MS13
ATOM  45851  O   ARG M  14     269.854 122.357  -8.505  1.00 34.23      MS13
ATOM  45852  N   VAL M  15     271.485 123.727  -7.814  1.00 50.40      MS13
ATOM  45853  CA  VAL M  15     271.955 122.791  -6.790  1.00 50.40      MS13
ATOM  45854  CB  VAL M  15     273.221 123.281  -6.087  1.00 40.70      MS13
ATOM  45855  CG1 VAL M  15     273.856 122.137  -5.331  1.00 40.70      MS13
ATOM  45856  CG2 VAL M  15     274.175 123.856  -7.084  1.00 40.70      MS13
ATOM  45857  C   VAL M  15     270.939 122.524  -5.702  1.00 50.40      MS13
ATOM  45858  O   VAL M  15     270.746 121.386  -5.304  1.00 50.40      MS13
ATOM  45859  N   ASP M  16     270.312 123.575  -5.194  1.00 64.50      MS13
ATOM  45860  CA  ASP M  16     269.315 123.398  -4.152  1.00 64.50      MS13
ATOM  45861  CB  ASP M  16     268.785 124.757  -3.697  1.00 72.46      MS13
ATOM  45862  CG  ASP M  16     268.310 125.614  -4.849  1.00 72.46      MS13
ATOM  45863  OD1 ASP M  16     268.709 125.340  -6.004  1.00 72.46      MS13
ATOM  45864  OD2 ASP M  16     267.551 126.571  -4.590  1.00 72.46      MS13
ATOM  45865  C   ASP M  16     268.181 122.519  -4.681  1.00 64.50      MS13
ATOM  45866  O   ASP M  16     267.802 121.533  -4.048  1.00 64.50      MS13
ATOM  45867  N   VAL M  17     267.646 122.873  -5.844  1.00 33.51      MS13
ATOM  45868  CA  VAL M  17     266.586 122.091  -6.455  1.00 33.51      MS13
ATOM  45869  CB  VAL M  17     266.120 122.726  -7.780  1.00 50.27      MS13
ATOM  45870  CG1 VAL M  17     265.514 121.684  -8.668  1.00 50.27      MS13
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ATOM  45871  CG2 VAL M  17     265.096 123.806  -7.511  1.00 50.27      MS13
ATOM  45872  C   VAL M  17     267.121 120.695  -6.735  1.00 33.51      MS13
ATOM  45873  O   VAL M  17     266.429 119.697  -6.513  1.00 33.51      MS13
ATOM  45874  N   ALA M  18     268.360 120.624  -7.212  1.00 35.80      MS13
ATOM  45875  CA  ALA M  18     268.981 119.343  -7.536  1.00 35.80      MS13
ATOM  45876  CB  ALA M  18     270.283 119.566  -8.269  1.00 35.49      MS13
ATOM  45877  C   ALA M  18     269.217 118.476  -6.314  1.00 35.80      MS13
ATOM  45878  O   ALA M  18     268.940 117.285  -6.344  1.00 35.80      MS13
ATOM  45879  N   LEU M  19     269.737 119.062  -5.244  1.00 40.92      MS13
ATOM  45880  CA  LEU M  19     269.990 118.308  -4.025  1.00 40.92      MS13
ATOM  45881  CB  LEU M  19     270.375 119.254  -2.887  1.00 49.94      MS13
ATOM  45882  CG  LEU M  19     271.856 119.626  -2.809  1.00 49.94      MS13
ATOM  45883  CD1 LEU M  19     272.063 120.819  -1.880  1.00 49.94      MS13
ATOM  45884  CD2 LEU M  19     272.634 118.410  -2.327  1.00 49.94      MS13
ATOM  45885  C   LEU M  19     268.742 117.529  -3.643  1.00 40.92      MS13
ATOM  45886  O   LEU M  19     268.820 116.414  -3.113  1.00 40.92      MS13
ATOM  45887  N   THR M  20     267.592 118.133  -3.920  1.00 75.98      MS13
ATOM  45888  CA  THR M  20     266.293 117.542  -3.632  1.00 75.98      MS13
ATOM  45889  CB  THR M  20     265.209 118.249  -4.426  1.00 41.04      MS13
ATOM  45890  OG1 THR M  20     264.921 119.502  -3.809  1.00 41.04      MS13
ATOM  45891  CG2 THR M  20     263.951 117.421  -4.475  1.00 41.04      MS13
ATOM  45892  C   THR M  20     266.196 116.060  -3.954  1.00 75.98      MS13
ATOM  45893  O   THR M  20     265.781 115.247  -3.118  1.00 75.98      MS13
ATOM  45894  N   TYR M  21     266.565 115.729  -5.186  1.00 36.76      MS13
ATOM  45895  CA  TYR M  21     266.510 114.365  -5.682  1.00 36.76      MS13
ATOM  45896  CB  TYR M  21     267.140 114.308  -7.078  1.00 77.71      MS13
ATOM  45897  CG  TYR M  21     266.357 115.150  -8.065  1.00 77.71      MS13
ATOM  45898  CD1 TYR M  21     266.293 116.541  -7.926  1.00 77.71      MS13
ATOM  45899  CE1 TYR M  21     265.505 117.322  -8.779  1.00 77.71      MS13
ATOM  45900  CD2 TYR M  21     265.614 114.558  -9.091  1.00 77.71      MS13
ATOM  45901  CE2 TYR M  21     264.819 115.331  -9.951  1.00 77.71      MS13
ATOM  45902  CZ  TYR M  21     264.769 116.713  -9.789  1.00 77.71      MS13
ATOM  45903  OH  TYR M  21     263.986 117.487 -10.625  1.00 77.71      MS13
ATOM  45904  C   TYR M  21     267.126 113.342  -4.751  1.00 36.76      MS13
ATOM  45905  O   TYR M  21     267.003 112.139  -4.983  1.00 36.76      MS13
ATOM  45906  N   ILE M  22     267.781 113.816  -3.694  1.00 45.73      MS13
ATOM  45907  CA  ILE M  22     268.393 112.915  -2.726  1.00 45.73      MS13
ATOM  45908  CB  ILE M  22     269.456 113.623  -1.879  1.00 62.03      MS13
ATOM  45909  CG2 ILE M  22     270.087 112.645  -0.917  1.00 62.03      MS13
ATOM  45910  CG1 ILE M  22     270.547 114.184  -2.785  1.00 62.03      MS13
ATOM  45911  CD1 ILE M  22     271.480 115.155  -2.092  1.00 62.03      MS13
ATOM  45912  C   ILE M  22     267.239 112.502  -1.849  1.00 45.73      MS13
ATOM  45913  O   ILE M  22     266.352 113.322  -1.583  1.00 45.73      MS13
ATOM  45914  N   TYR M  23     267.234 111.243  -1.408  1.00 74.55      MS13
ATOM  45915  CA  TYR M  23     266.137 110.750  -0.586  1.00 74.55      MS13
ATOM  45916  CB  TYR M  23     266.409 109.345  -0.054  1.00 76.21      MS13
ATOM  45917  CG  TYR M  23     265.194 108.751   0.630  1.00 76.21      MS13
ATOM  45918  CD1 TYR M  23     263.915 108.945   0.106  1.00 76.21      MS13
ATOM  45919  CE1 TYR M  23     262.783 108.455   0.755  1.00 76.21      MS13
ATOM  45920  CD2 TYR M  23     265.311 108.037   1.821  1.00 76.21      MS13
ATOM  45921  CE2 TYR M  23     264.181 107.537   2.477  1.00 76.21      MS13
ATOM  45922  CZ  TYR M  23     262.923 107.757   1.940  1.00 76.21      MS13
ATOM  45923  OH  TYR M  23     261.805 107.318   2.611  1.00 76.21      MS13
ATOM  45924  C   TYR M  23     265.793 111.667   0.566  1.00 74.55      MS13
ATOM  45925  O   TYR M  23     265.096 112.650   0.372  1.00 74.55      MS13
ATOM  45926  N   GLY M  24     266.289 111.362   1.758  1.00 52.59      MS13
ATOM  45927  CA  GLY M  24     265.973 112.186   2.917  1.00 52.59      MS13
ATOM  45928  C   GLY M  24     266.323 113.666   2.873  1.00 52.59      MS13
ATOM  45929  O   GLY M  24     266.623 114.262   3.902  1.00 52.59      MS13
ATOM  45930  N   ILE M  25     266.278 114.272   1.695  1.00 69.01      MS13
ATOM  45931  CA  ILE M  25     266.601 115.681   1.564  1.00 69.01      MS13
ATOM  45932  CB  ILE M  25     267.948 115.864   0.837  1.00 72.02      MS13
ATOM  45933  CG2 ILE M  25     268.198 117.329   0.517  1.00 72.02      MS13
ATOM  45934  CG1 ILE M  25     269.067 115.323   1.718  1.00 72.02      MS13
ATOM  45935  CD1 ILE M  25     270.416 115.386   1.083  1.00 72.02      MS13
ATOM  45936  C   ILE M  25     265.512 116.392   0.792  1.00 69.01      MS13
ATOM  45937  O   ILE M  25     264.776 115.766   0.016  1.00 69.01      MS13
ATOM  45938  N   GLY M  26     265.413 117.702   1.011  1.00 67.03      MS13
ATOM  45939  CA  GLY M  26     264.414 118.497   0.322  1.00 67.03      MS13
ATOM  45940  C   GLY M  26     264.358 119.926   0.809  1.00 67.03      MS13
ATOM  45941  O   GLY M  26     264.581 120.174   1.987  1.00 67.03      MS13
ATOM  45942  N   LYS M  27     264.048 120.848  -0.104  1.00 70.17      MS13
ATOM  45943  CA  LYS M  27     263.953 122.284   0.176  1.00 70.17      MS13
ATOM  45944  CB  LYS M  27     262.487 122.718   0.277  1.00152.26      MS13
ATOM  45945  CG  LYS M  27     261.899 123.187  -1.044  1.00152.26      MS13
ATOM  45946  CD  LYS M  27     262.698 124.362  -1.596  1.00152.26      MS13
ATOM  45947  CE  LYS M  27     262.227 124.773  -2.984  1.00152.26      MS13
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ATOM  45948  NZ  LYS M  27     263.087 125.844  -3.577  1.00152.26      MS13
ATOM  45949  C   LYS M  27     264.704 122.726   1.421  1.00 70.17      MS13
ATOM  45950  O   LYS M  27     265.739 123.382   1.321  1.00 70.17      MS13
ATOM  45951  N   ALA M  28     264.175 122.363   2.586  1.00 77.33      MS13
ATOM  45952  CA  ALA M  28     264.779 122.698   3.872  1.00 77.33      MS13
ATOM  45953  CB  ALA M  28     263.984 122.033   4.995  1.00 85.41      MS13
ATOM  45954  C   ALA M  28     266.255 122.289   3.966  1.00 77.33      MS13
ATOM  45955  O   ALA M  28     267.151 123.116   3.777  1.00 77.33      MS13
ATOM  45956  N   ARG M  29     266.497 121.014   4.266  1.00 47.43      MS13
ATOM  45957  CA  ARG M  29     267.857 120.495   4.399  1.00 47.43      MS13
ATOM  45958  CB  ARG M  29     267.847 118.960   4.454  1.00 55.39      MS13
ATOM  45959  CG  ARG M  29     267.375 118.402   5.792  1.00 55.39      MS13
ATOM  45960  CD  ARG M  29     267.580 116.906   5.901  1.00 55.39      MS13
ATOM  45961  NE  ARG M  29     267.178 116.421   7.217  1.00 55.39      MS13
ATOM  45962  CZ  ARG M  29     267.116 115.135   7.557  1.00 55.39      MS13
ATOM  45963  NH1 ARG M  29     267.431 114.192   6.679  1.00 55.39      MS13
ATOM  45964  NH2 ARG M  29     266.727 114.785   8.775  1.00 55.39      MS13
ATOM  45965  C   ARG M  29     268.772 120.959   3.278  1.00 47.43      MS13
ATOM  45966  O   ARG M  29     269.974 121.133   3.480  1.00 47.43      MS13
ATOM  45967  N   ALA M  30     268.195 121.155   2.098  1.00 71.35      MS13
ATOM  45968  CA  ALA M  30     268.953 121.594   0.936  1.00 71.35      MS13
ATOM  45969  CB  ALA M  30     268.082 121.533  -0.308  1.00121.70      MS13
ATOM  45970  C   ALA M  30     269.447 123.010   1.162  1.00 71.35      MS13
ATOM  45971  O   ALA M  30     270.589 123.337   0.850  1.00 71.35      MS13
ATOM  45972  N   LYS M  31     268.582 123.848   1.712  1.00 69.88      MS13
ATOM  45973  CA  LYS M  31     268.941 125.231   1.980  1.00 69.88      MS13
ATOM  45974  CB  LYS M  31     267.702 126.018   2.397  1.00114.41      MS13
ATOM  45975  CG  LYS M  31     267.915 127.509   2.508  1.00114.41      MS13
ATOM  45976  CD  LYS M  31     266.593 128.210   2.755  1.00114.41      MS13
ATOM  45977  CE  LYS M  31     266.758 129.714   2.741  1.00114.41      MS13
ATOM  45978  NZ  LYS M  31     265.448 130.398   2.877  1.00114.41      MS13
ATOM  45979  C   LYS M  31     269.983 125.268   3.091  1.00 69.88      MS13
ATOM  45980  O   LYS M  31     270.924 126.061   3.057  1.00 69.88      MS13
ATOM  45981  N   GLU M  32     269.812 124.398   4.077  1.00 69.85      MS13
ATOM  45982  CA  GLU M  32     270.749 124.345   5.185  1.00 69.85      MS13
ATOM  45983  CB  GLU M  32     270.266 123.344   6.239  1.00118.43      MS13
ATOM  45984  CG  GLU M  32     271.118 123.300   7.495  1.00118.43      MS13
ATOM  45985  CD  GLU M  32     270.474 122.500   8.613  1.00118.43      MS13
ATOM  45986  OE1 GLU M  32     270.143 121.317   8.392  1.00118.43      MS13
ATOM  45987  OE2 GLU M  32     270.300 123.054   9.719  1.00118.43      MS13
ATOM  45988  C   GLU M  32     272.116 123.943   4.648  1.00 69.85      MS13
ATOM  45989  O   GLU M  32     273.106 124.622   4.893  1.00 69.85      MS13
ATOM  45990  N   ALA M  33     272.164 122.846   3.898  1.00 65.28      MS13
ATOM  45991  CA  ALA M  33     273.417 122.367   3.332  1.00 65.28      MS13
ATOM  45992  CB  ALA M  33     273.162 121.175   2.419  1.00 66.55      MS13
ATOM  45993  C   ALA M  33     274.131 123.471   2.566  1.00 65.28      MS13
ATOM  45994  O   ALA M  33     275.285 123.784   2.851  1.00 65.28      MS13
ATOM  45995  N   LEU M  34     273.450 124.065   1.596  1.00 69.59      MS13
ATOM  45996  CA  LEU M  34     274.066 125.126   0.813  1.00 69.59      MS13
ATOM  45997  CB  LEU M  34     273.147 125.556  -0.330  1.00 54.15      MS13
ATOM  45998  CG  LEU M  34     272.934 124.520  -1.426  1.00 54.15      MS13
ATOM  45999  CD1 LEU M  34     272.238 125.178  -2.580  1.00 54.15      MS13
ATOM  46000  CD2 LEU M  34     274.262 123.961  -1.894  1.00 54.15      MS13
ATOM  46001  C   LEU M  34     274.401 126.330   1.678  1.00 69.59      MS13
ATOM  46002  O   LEU M  34     275.071 127.264   1.231  1.00 69.59      MS13
ATOM  46003  N   GLU M  35     273.933 126.304   2.920  1.00 87.30      MS13
ATOM  46004  CA  GLU M  35     274.190 127.398   3.841  1.00 87.30      MS13
ATOM  46005  CB  GLU M  35     273.033 127.538   4.830  1.00200.96      MS13
ATOM  46006  CG  GLU M  35     272.803 128.963   5.286  1.00200.96      MS13
ATOM  46007  CD  GLU M  35     272.610 129.911   4.116  1.00200.96      MS13
ATOM  46008  OE1 GLU M  35     271.691 129.673   3.303  1.00200.96      MS13
ATOM  46009  OE2 GLU M  35     273.378 130.890   4.006  1.00200.96      MS13
ATOM  46010  C   GLU M  35     275.494 127.139   4.583  1.00 87.30      MS13
ATOM  46011  O   GLU M  35     276.481 127.834   4.359  1.00 87.30      MS13
ATOM  46012  N   LYS M  36     275.503 126.133   5.453  1.00 93.86      MS13
ATOM  46013  CA  LYS M  36     276.699 125.784   6.218  1.00 93.86      MS13
ATOM  46014  CB  LYS M  36     276.365 124.716   7.261  1.00 90.16      MS13
ATOM  46015  CG  LYS M  36     275.305 125.143   8.250  1.00 90.16      MS13
ATOM  46016  CD  LYS M  36     274.989 124.042   9.250  1.00 90.16      MS13
ATOM  46017  CE  LYS M  36     276.177 123.734  10.153  1.00 90.16      MS13
ATOM  46018  NZ  LYS M  36     275.872 122.664  11.156  1.00 90.16      MS13
ATOM  46019  C   LYS M  36     277.802 125.267   5.295  1.00 93.86      MS13
ATOM  46020  O   LYS M  36     278.670 124.496   5.710  1.00 93.86      MS13
ATOM  46021  N   THR M  37     277.758 125.704   4.041  1.00 65.63      MS13
ATOM  46022  CA  THR M  37     278.729 125.297   3.035  1.00 65.63      MS13
ATOM  46023  CB  THR M  37     278.245 124.024   2.300  1.00 70.29      MS13
ATOM  46024  OG1 THR M  37     277.941 123.009   3.262  1.00 70.29      MS13
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ATOM  46025  CG2 THR M  37     279.317 123.495   1.376  1.00 70.29      MS13
ATOM  46026  C   THR M  37     278.901 126.446   2.039  1.00 65.63      MS13
ATOM  46027  O   THR M  37     279.617 126.329   1.048  1.00 65.63      MS13
ATOM  46028  N   GLY M  38     278.228 127.557   2.321  1.00 87.68      MS13
ATOM  46029  CA  GLY M  38     278.309 128.738   1.479  1.00 87.68      MS13
ATOM  46030  C   GLY M  38     278.497 128.543  -0.017  1.00 87.68      MS13
ATOM  46031  O   GLY M  38     279.485 129.012  -0.593  1.00 87.68      MS13
ATOM  46032  N   ILE M  39     277.548 127.864  -0.655  1.00 58.74      MS13
ATOM  46033  CA  ILE M  39     277.613 127.634  -2.094  1.00 58.74      MS13
ATOM  46034  CB  ILE M  39     277.615 126.135  -2.419  1.00 49.00      MS13
ATOM  46035  CG2 ILE M  39     277.532 125.932  -3.916  1.00 49.00      MS13
ATOM  46036  CG1 ILE M  39     278.874 125.481  -1.849  1.00 49.00      MS13
ATOM  46037  CD1 ILE M  39     278.947 123.991  -2.084  1.00 49.00      MS13
ATOM  46038  C   ILE M  39     276.376 128.251  -2.714  1.00 58.74      MS13
ATOM  46039  O   ILE M  39     275.270 127.824  -2.411  1.00 58.74      MS13
ATOM  46040  N   ASN M  40     276.546 129.255  -3.568  1.00 87.99      MS13
ATOM  46041  CA  ASN M  40     275.382 129.874  -4.186  1.00 87.99      MS13
ATOM  46042  CB  ASN M  40     275.776 130.808  -5.323  1.00109.99      MS13
ATOM  46043  CG  ASN M  40     274.566 131.432  -6.003  1.00109.99      MS13
ATOM  46044  OD1 ASN M  40     274.681 132.023  -7.075  1.00109.99      MS13
ATOM  46045  ND2 ASN M  40     273.397 131.304  -5.376  1.00109.99      MS13
ATOM  46046  C   ASN M  40     274.502 128.766  -4.740  1.00 87.99      MS13
ATOM  46047  O   ASN M  40     274.888 128.058  -5.668  1.00 87.99      MS13
ATOM  46048  N   PRO M  41     273.301 128.602  -4.175  1.00113.90      MS13
ATOM  46049  CD  PRO M  41     272.736 129.439  -3.105  1.00 51.22      MS13
ATOM  46050  CA  PRO M  41     272.337 127.578  -4.588  1.00113.90      MS13
ATOM  46051  CB  PRO M  41     271.115 127.914  -3.752  1.00 51.22      MS13
ATOM  46052  CG  PRO M  41     271.718 128.523  -2.516  1.00 51.22      MS13
ATOM  46053  C   PRO M  41     272.034 127.636  -6.072  1.00113.90      MS13
ATOM  46054  O   PRO M  41     272.009 126.616  -6.760  1.00113.90      MS13
ATOM  46055  N   ALA M  42     271.799 128.854  -6.543  1.00 56.05      MS13
ATOM  46056  CA  ALA M  42     271.485 129.124  -7.933  1.00 56.05      MS13
ATOM  46057  CB  ALA M  42     271.411 130.625  -8.145  1.00 29.10      MS13
ATOM  46058  C   ALA M  42     272.463 128.507  -8.936  1.00 56.05      MS13
ATOM  46059  O   ALA M  42     272.119 128.312 -10.103  1.00 56.05      MS13
ATOM  46060  N   THR M  43     273.680 128.202  -8.506  1.00 43.48      MS13
ATOM  46061  CA  THR M  43     274.638 127.625  -9.437  1.00 43.48      MS13
ATOM  46062  CB  THR M  43     275.992 127.338  -8.771  1.00 81.85      MS13
ATOM  46063  OG1 THR M  43     275.788 126.526  -7.609  1.00 81.85      MS13
ATOM  46064  CG2 THR M  43     276.688 128.635  -8.391  1.00 81.85      MS13
ATOM  46065  C   THR M  43     274.137 126.321 -10.026  1.00 43.48      MS13
ATOM  46066  O   THR M  43     273.561 125.488  -9.328  1.00 43.48      MS13
ATOM  46067  N   ARG M  44     274.351 126.149 -11.323  1.00 73.13      MS13
ATOM  46068  CA  ARG M  44     273.954 124.916 -11.980  1.00 73.13      MS13
ATOM  46069  CB  ARG M  44     274.199 125.041 -13.479  1.00 74.28      MS13
ATOM  46070  CG  ARG M  44     272.964 124.963 -14.354  1.00 74.28      MS13
ATOM  46071  CD  ARG M  44     271.905 125.983 -13.990  1.00 74.28      MS13
ATOM  46072  NE  ARG M  44     270.776 125.342 -13.322  1.00 74.28      MS13
ATOM  46073  CZ  ARG M  44     269.524 125.777 -13.392  1.00 74.28      MS13
ATOM  46074  NH1 ARG M  44     269.227 126.859 -14.102  1.00 74.28      MS13
ATOM  46075  NH2 ARG M  44     268.568 125.120 -12.756  1.00 74.28      MS13
ATOM  46076  C   ARG M  44     274.878 123.860 -11.385  1.00 73.13      MS13
ATOM  46077  O   ARG M  44     276.064 124.116 -11.207  1.00 73.13      MS13
ATOM  46078  N   VAL M  45     274.358 122.688 -11.055  1.00 63.28      MS13
ATOM  46079  CA  VAL M  45     275.226 121.659 -10.488  1.00 63.28      MS13
ATOM  46080  CB  VAL M  45     274.470 120.334 -10.280  1.00 86.43      MS13
ATOM  46081  CG1 VAL M  45     275.420 119.266  -9.756  1.00 86.43      MS13
ATOM  46082  CG2 VAL M  45     273.334 120.544  -9.308  1.00 86.43      MS13
ATOM  46083  C   VAL M  45     276.416 121.408 -11.421  1.00 63.28      MS13
ATOM  46084  O   VAL M  45     277.552 121.212 -10.973  1.00 63.28      MS13
ATOM  46085  N   LYS M  46     276.146 121.422 -12.723  1.00 76.03      MS13
ATOM  46086  CA  LYS M  46     277.182 121.201 -13.722  1.00 76.03      MS13
ATOM  46087  CB  LYS M  46     276.571 121.221 -15.118  1.00 87.18      MS13
ATOM  46088  CG  LYS M  46     275.625 122.379 -15.345  1.00 87.18      MS13
ATOM  46089  CD  LYS M  46     275.271 122.527 -16.810  1.00 87.18      MS13
ATOM  46090  CE  LYS M  46     276.490 122.951 -17.611  1.00 87.18      MS13
ATOM  46091  NZ  LYS M  46     276.231 123.003 -19.083  1.00 87.18      MS13
ATOM  46092  C   LYS M  46     278.265 122.265 -13.626  1.00 76.03      MS13
ATOM  46093  O   LYS M  46     279.313 122.151 -14.258  1.00 76.03      MS13
ATOM  46094  N   ASP M  47     278.004 123.303 -12.838  1.00 63.09      MS13
ATOM  46095  CA  ASP M  47     278.961 124.384 -12.662  1.00 63.09      MS13
ATOM  46096  CB  ASP M  47     278.284 125.752 -12.846  1.00 92.04      MS13
ATOM  46097  CG  ASP M  47     277.801 125.992 -14.273  1.00 92.04      MS13
ATOM  46098  OD1 ASP M  47     278.570 125.742 -15.225  1.00 92.04      MS13
ATOM  46099  OD2 ASP M  47     276.652 126.452 -14.443  1.00 92.04      MS13
ATOM  46100  C   ASP M  47     279.597 124.326 -11.279  1.00 63.09      MS13
ATOM  46101  O   ASP M  47     280.255 125.273 -10.854  1.00 63.09      MS13
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ATOM  46102  N   LEU M  48     279.411 123.222 -10.568  1.00 80.06      MS13
ATOM  46103  CA  LEU M  48     279.993 123.124  -9.238  1.00 80.06      MS13
ATOM  46104  CB  LEU M  48     279.288 122.050  -8.400  1.00 47.72      MS13
ATOM  46105  CG  LEU M  48     277.915 122.399  -7.816  1.00 47.72      MS13
ATOM  46106  CD1 LEU M  48     277.601 121.396  -6.717  1.00 47.72      MS13
ATOM  46107  CD2 LEU M  48     277.897 123.822  -7.244  1.00 47.72      MS13
ATOM  46108  C   LEU M  48     281.491 122.855  -9.223  1.00 80.06      MS13
ATOM  46109  O   LEU M  48     281.997 122.014  -9.966  1.00 80.06      MS13
ATOM  46110  N   THR M  49     282.184 123.592  -8.360  1.00 64.04      MS13
ATOM  46111  CA  THR M  49     283.623 123.460  -8.164  1.00 64.04      MS13
ATOM  46112  CB  THR M  49     284.152 124.591  -7.268  1.00101.44      MS13
ATOM  46113  OG1 THR M  49     284.106 125.828  -7.988  1.00101.44      MS13
ATOM  46114  CG2 THR M  49     285.573 124.300  -6.807  1.00101.44      MS13
ATOM  46115  C   THR M  49     283.894 122.128  -7.475  1.00 64.04      MS13
ATOM  46116  O   THR M  49     283.317 121.831  -6.432  1.00 64.04      MS13
ATOM  46117  N   GLU M  50     284.774 121.328  -8.058  1.00 66.51      MS13
ATOM  46118  CA  GLU M  50     285.098 120.032  -7.489  1.00 66.51      MS13
ATOM  46119  CB  GLU M  50     286.408 119.508  -8.078  1.00182.88      MS13
ATOM  46120  CG  GLU M  50     286.688 118.045  -7.769  1.00182.88      MS13
ATOM  46121  CD  GLU M  50     285.624 117.116  -8.326  1.00182.88      MS13
ATOM  46122  OE1 GLU M  50     285.348 117.188  -9.543  1.00182.88      MS13
ATOM  46123  OE2 GLU M  50     285.068 116.310  -7.549  1.00182.88      MS13
ATOM  46124  C   GLU M  50     285.222 120.157  -5.979  1.00 66.51      MS13
ATOM  46125  O   GLU M  50     284.789 119.278  -5.236  1.00 66.51      MS13
ATOM  46126  N   ALA M  51     285.801 121.266  -5.535  1.00 92.73      MS13
ATOM  46127  CA  ALA M  51     285.986 121.514  -4.112  1.00 92.73      MS13
ATOM  46128  CB  ALA M  51     286.829 122.761  -3.921  1.00 79.31      MS13
ATOM  46129  C   ALA M  51     284.652 121.656  -3.372  1.00 92.73      MS13
ATOM  46130  O   ALA M  51     284.454 121.057  -2.309  1.00 92.73      MS13
ATOM  46131  N   GLU M  52     283.744 122.451  -3.935  1.00 72.48      MS13
ATOM  46132  CA  GLU M  52     282.426 122.677  -3.339  1.00 72.48      MS13
ATOM  46133  CB  GLU M  52     281.610 123.610  -4.220  1.00 82.21      MS13
ATOM  46134  CG  GLU M  52     282.276 124.925  -4.453  1.00 82.21      MS13
ATOM  46135  CD  GLU M  52     281.426 125.851  -5.282  1.00 82.21      MS13
ATOM  46136  OE1 GLU M  52     281.152 125.516  -6.457  1.00 82.21      MS13
ATOM  46137  OE2 GLU M  52     281.032 126.915  -4.751  1.00 82.21      MS13
ATOM  46138  C   GLU M  52     281.666 121.371  -3.158  1.00 72.48      MS13
ATOM  46139  O   GLU M  52     281.016 121.145  -2.137  1.00 72.48      MS13
ATOM  46140  N   VAL M  53     281.727 120.521  -4.172  1.00 42.19      MS13
ATOM  46141  CA  VAL M  53     281.063 119.246  -4.083  1.00 42.19      MS13
ATOM  46142  CB  VAL M  53     281.359 118.389  -5.302  1.00 34.96      MS13
ATOM  46143  CG1 VAL M  53     280.746 117.013  -5.133  1.00 34.96      MS13
ATOM  46144  CG2 VAL M  53     280.805 119.075  -6.536  1.00 34.96      MS13
ATOM  46145  C   VAL M  53     281.609 118.570  -2.845  1.00 42.19      MS13
ATOM  46146  O   VAL M  53     280.852 118.203  -1.947  1.00 42.19      MS13
ATOM  46147  N   VAL M  54     282.931 118.429  -2.795  1.00 75.17      MS13
ATOM  46148  CA  VAL M  54     283.599 117.808  -1.656  1.00 75.17      MS13
ATOM  46149  CB  VAL M  54     285.069 118.238  -1.573  1.00119.43      MS13
ATOM  46150  CG1 VAL M  54     285.751 117.518  -0.425  1.00119.43      MS13
ATOM  46151  CG2 VAL M  54     285.769 117.935  -2.885  1.00119.43      MS13
ATOM  46152  C   VAL M  54     282.895 118.199  -0.359  1.00 75.17      MS13
ATOM  46153  O   VAL M  54     282.435 117.335   0.385  1.00 75.17      MS13
ATOM  46154  N   ARG M  55     282.811 119.502  -0.097  1.00 81.75      MS13
ATOM  46155  CA  ARG M  55     282.132 119.997   1.099  1.00 81.75      MS13
ATOM  46156  CB  ARG M  55     282.074 121.524   1.095  1.00 53.48      MS13
ATOM  46157  CG  ARG M  55     283.284 122.239   1.634  1.00 53.48      MS13
ATOM  46158  CD  ARG M  55     283.008 123.732   1.686  1.00 53.48      MS13
ATOM  46159  NE  ARG M  55     283.034 124.359   0.363  1.00 53.48      MS13
ATOM  46160  CZ  ARG M  55     282.639 125.609   0.120  1.00 53.48      MS13
ATOM  46161  NH1 ARG M  55     282.183 126.368   1.110  1.00 53.48      MS13
ATOM  46162  NH2 ARG M  55     282.710 126.110  -1.108  1.00 53.48      MS13
ATOM  46163  C   ARG M  55     280.698 119.467   1.134  1.00 81.75      MS13
ATOM  46164  O   ARG M  55     280.329 118.675   2.005  1.00 81.75      MS13
ATOM  46165  N   LEU M  56     279.899 119.937   0.179  1.00 62.76      MS13
ATOM  46166  CA  LEU M  56     278.503 119.546   0.048  1.00 62.76      MS13
ATOM  46167  CB  LEU M  56     278.066 119.652  -1.412  1.00 54.25      MS13
ATOM  46168  CG  LEU M  56     276.822 120.479  -1.725  1.00 54.25      MS13
ATOM  46169  CD1 LEU M  56     276.223 119.997  -3.049  1.00 54.25      MS13
ATOM  46170  CD2 LEU M  56     275.811 120.338  -0.591  1.00 54.25      MS13
ATOM  46171  C   LEU M  56     278.315 118.116   0.503  1.00 62.76      MS13
ATOM  46172  O   LEU M  56     277.580 117.837   1.442  1.00 62.76      MS13
ATOM  46173  N   ARG M  57     279.004 117.214  -0.180  1.00 64.88      MS13
ATOM  46174  CA  ARG M  57     278.929 115.796   0.108  1.00 64.88      MS13
ATOM  46175  CB  ARG M  57     279.924 115.049  -0.771  1.00 95.76      MS13
ATOM  46176  CG  ARG M  57     279.767 113.550  -0.749  1.00 95.76      MS13
ATOM  46177  CD  ARG M  57     280.641 112.927  -1.813  1.00 95.76      MS13
ATOM  46178  NE  ARG M  57     280.514 113.650  -3.074  1.00 95.76      MS13
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ATOM  46179  CZ  ARG M  57     281.052 113.249  -4.220  1.00 95.76      MS13
ATOM  46180  NH1 ARG M  57     281.753 112.126  -4.262  1.00 95.76      MS13
ATOM  46181  NH2 ARG M  57     280.896 113.968  -5.324  1.00 95.76      MS13
ATOM  46182  C   ARG M  57     279.200 115.493   1.573  1.00 64.88      MS13
ATOM  46183  O   ARG M  57     278.368 114.896   2.255  1.00 64.88      MS13
ATOM  46184  N   GLU M  58     280.363 115.911   2.059  1.00119.49      MS13
ATOM  46185  CA  GLU M  58     280.735 115.660   3.446  1.00119.49      MS13
ATOM  46186  CB  GLU M  58     282.106 116.273   3.748  1.00200.96      MS13
ATOM  46187  CG  GLU M  58     283.204 115.881   2.765  1.00200.96      MS13
ATOM  46188  CD  GLU M  58     283.367 114.377   2.603  1.00200.96      MS13
ATOM  46189  OE1 GLU M  58     284.268 113.962   1.845  1.00200.96      MS13
ATOM  46190  OE2 GLU M  58     282.601 113.609   3.224  1.00200.96      MS13
ATOM  46191  C   GLU M  58     279.708 116.202   4.434  1.00119.49      MS13
ATOM  46192  O   GLU M  58     279.365 115.536   5.412  1.00119.49      MS13
ATOM  46193  N   TYR M  59     279.216 117.408   4.179  1.00 65.45      MS13
ATOM  46194  CA  TYR M  59     278.239 117.999   5.074  1.00 65.45      MS13
ATOM  46195  CB  TYR M  59     278.034 119.482   4.773  1.00101.95      MS13
ATOM  46196  CG  TYR M  59     276.960 120.085   5.651  1.00101.95      MS13
ATOM  46197  CD1 TYR M  59     277.024 119.958   7.042  1.00101.95      MS13
ATOM  46198  CE1 TYR M  59     276.029 120.474   7.861  1.00101.95      MS13
ATOM  46199  CD2 TYR M  59     275.866 120.750   5.101  1.00101.95      MS13
ATOM  46200  CE2 TYR M  59     274.863 121.272   5.914  1.00101.95      MS13
ATOM  46201  CZ  TYR M  59     274.953 121.130   7.291  1.00101.95      MS13
ATOM  46202  OH  TYR M  59     273.968 121.647   8.100  1.00101.95      MS13
ATOM  46203  C   TYR M  59     276.887 117.306   5.030  1.00 65.45      MS13
ATOM  46204  O   TYR M  59     276.149 117.336   6.005  1.00 65.45      MS13
ATOM  46205  N   VAL M  60     276.555 116.691   3.900  1.00 49.24      MS13
ATOM  46206  CA  VAL M  60     275.275 116.017   3.775  1.00 49.24      MS13
ATOM  46207  CB  VAL M  60     274.726 116.115   2.341  1.00 56.78      MS13
ATOM  46208  CG1 VAL M  60     273.562 115.151   2.171  1.00 56.78      MS13
ATOM  46209  CG2 VAL M  60     274.262 117.545   2.055  1.00 56.78      MS13
ATOM  46210  C   VAL M  60     275.335 114.555   4.182  1.00 49.24      MS13
ATOM  46211  O   VAL M  60     274.496 114.095   4.958  1.00 49.24      MS13
ATOM  46212  N   GLU M  61     276.314 113.819   3.661  1.00 63.16      MS13
ATOM  46213  CA  GLU M  61     276.431 112.406   4.002  1.00 63.16      MS13
ATOM  46214  CB  GLU M  61     277.573 111.744   3.223  1.00135.03      MS13
ATOM  46215  CG  GLU M  61     277.253 111.554   1.743  1.00135.03      MS13
ATOM  46216  CD  GLU M  61     277.893 110.311   1.151  1.00135.03      MS13
ATOM  46217  OE1 GLU M  61     277.700 109.216   1.721  1.00135.03      MS13
ATOM  46218  OE2 GLU M  61     278.578 110.425   0.111  1.00135.03      MS13
ATOM  46219  C   GLU M  61     276.645 112.277   5.500  1.00 63.16      MS13
ATOM  46220  O   GLU M  61     276.254 111.289   6.126  1.00 63.16      MS13
ATOM  46221  N   ASN M  62     277.269 113.293   6.073  1.00101.13      MS13
ATOM  46222  CA  ASN M  62     277.495 113.320   7.503  1.00101.13      MS13
ATOM  46223  CB  ASN M  62     278.979 113.517   7.816  1.00154.41      MS13
ATOM  46224  CG  ASN M  62     279.818 112.315   7.429  1.00154.41      MS13
ATOM  46225  OD1 ASN M  62     279.941 111.981   6.251  1.00154.41      MS13
ATOM  46226  ND2 ASN M  62     280.392 111.650   8.426  1.00154.41      MS13
ATOM  46227  C   ASN M  62     276.682 114.504   7.980  1.00101.13      MS13
ATOM  46228  O   ASN M  62     276.939 115.632   7.571  1.00101.13      MS13
ATOM  46229  N   THR M  63     275.687 114.231   8.815  1.00 72.38      MS13
ATOM  46230  CA  THR M  63     274.797 115.252   9.351  1.00 72.38      MS13
ATOM  46231  CB  THR M  63     274.806 116.543   8.504  1.00122.56      MS13
ATOM  46232  OG1 THR M  63     274.183 117.608   9.231  1.00122.56      MS13
ATOM  46233  CG2 THR M  63     274.051 116.320   7.208  1.00122.56      MS13
ATOM  46234  C   THR M  63     273.370 114.711   9.346  1.00 72.38      MS13
ATOM  46235  O   THR M  63     272.560 115.076  10.195  1.00 72.38      MS13
ATOM  46236  N   TRP M  64     273.064 113.840   8.388  1.00112.01      MS13
ATOM  46237  CA  TRP M  64     271.727 113.266   8.290  1.00112.01      MS13
ATOM  46238  CB  TRP M  64     270.867 114.067   7.331  1.00 36.27      MS13
ATOM  46239  CG  TRP M  64     270.760 115.521   7.591  1.00 36.27      MS13
ATOM  46240  CD2 TRP M  64     270.946 116.567   6.636  1.00 36.27      MS13
ATOM  46241  CE2 TRP M  64     270.610 117.777   7.271  1.00 36.27      MS13
ATOM  46242  CE3 TRP M  64     271.360 116.596   5.303  1.00 36.27      MS13
ATOM  46243  CD1 TRP M  64     270.340 116.118   8.733  1.00 36.27      MS13
ATOM  46244  NE1 TRP M  64     270.240 117.475   8.553  1.00 36.27      MS13
ATOM  46245  CZ2 TRP M  64     270.672 119.008   6.625  1.00 36.27      MS13
ATOM  46246  CZ3 TRP M  64     271.422 117.826   4.654  1.00 36.27      MS13
ATOM  46247  CH2 TRP M  64     271.079 119.016   5.320  1.00 36.27      MS13
ATOM  46248  C   TRP M  64     271.719 111.833   7.782  1.00112.01      MS13
ATOM  46249  O   TRP M  64     272.662 111.384   7.127  1.00112.01      MS13
ATOM  46250  N   LYS M  65     270.627 111.132   8.071  1.00111.37      MS13
ATOM  46251  CA  LYS M  65     270.447 109.759   7.620  1.00111.37      MS13
ATOM  46252  CB  LYS M  65     269.632 108.973   8.641  1.00 67.76      MS13
ATOM  46253  CG  LYS M  65     269.657 107.473   8.428  1.00 67.76      MS13
ATOM  46254  CD  LYS M  65     268.937 106.746   9.556  1.00 67.76      MS13
ATOM  46255  CE  LYS M  65     269.486 107.122  10.935  1.00 67.76      MS13
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ATOM  46256  NZ  LYS M  65     268.718 106.477  12.043  1.00 67.76      MS13
ATOM  46257  C   LYS M  65     269.672 109.900   6.317  1.00111.37      MS13
ATOM  46258  O   LYS M  65     268.641 110.570   6.278  1.00111.37      MS13
ATOM  46259  N   LEU M  66     270.155 109.275   5.252  1.00 71.22      MS13
ATOM  46260  CA  LEU M  66     269.499 109.419   3.961  1.00 71.22      MS13
ATOM  46261  CB  LEU M  66     270.352 110.315   3.074  1.00 43.76      MS13
ATOM  46262  CG  LEU M  66     270.945 111.517   3.801  1.00 43.76      MS13
ATOM  46263  CD1 LEU M  66     272.018 112.146   2.937  1.00 43.76      MS13
ATOM  46264  CD2 LEU M  66     269.851 112.517   4.137  1.00 43.76      MS13
ATOM  46265  C   LEU M  66     269.230 108.126   3.217  1.00 71.22      MS13
ATOM  46266  O   LEU M  66     269.340 107.032   3.776  1.00 71.22      MS13
ATOM  46267  N   GLU M  67     268.878 108.282   1.943  1.00111.57      MS13
ATOM  46268  CA  GLU M  67     268.597 107.163   1.053  1.00111.57      MS13
ATOM  46269  CB  GLU M  67     269.772 106.958   0.099  1.00101.08      MS13
ATOM  46270  CG  GLU M  67     269.792 107.897  -1.077  1.00101.08      MS13
ATOM  46271  CD  GLU M  67     268.675 107.603  -2.047  1.00101.08      MS13
ATOM  46272  OE1 GLU M  67     268.498 106.416  -2.396  1.00101.08      MS13
ATOM  46273  OE2 GLU M  67     267.977 108.554  -2.467  1.00101.08      MS13
ATOM  46274  C   GLU M  67     268.296 105.851   1.768  1.00111.57      MS13
ATOM  46275  O   GLU M  67     267.434 105.784   2.644  1.00111.57      MS13
ATOM  46276  N   GLY M  68     269.025 104.811   1.384  1.00 57.71      MS13
ATOM  46277  CA  GLY M  68     268.836 103.499   1.968  1.00 57.71      MS13
ATOM  46278  C   GLY M  68     268.667 103.437   3.471  1.00 57.71      MS13
ATOM  46279  O   GLY M  68     267.584 103.113   3.954  1.00 57.71      MS13
ATOM  46280  N   GLU M  69     269.732 103.738   4.211  1.00 99.73      MS13
ATOM  46281  CA  GLU M  69     269.688 103.670   5.668  1.00 99.73      MS13
ATOM  46282  CB  GLU M  69     270.907 104.358   6.288  1.00166.35      MS13
ATOM  46283  CG  GLU M  69     270.952 104.235   7.811  1.00166.35      MS13
ATOM  46284  CD  GLU M  69     272.283 104.660   8.411  1.00166.35      MS13
ATOM  46285  OE1 GLU M  69     273.314 104.042   8.071  1.00166.35      MS13
ATOM  46286  OE2 GLU M  69     272.299 105.606   9.227  1.00166.35      MS13
ATOM  46287  C   GLU M  69     268.416 104.272   6.232  1.00 99.73      MS13
ATOM  46288  O   GLU M  69     267.838 103.735   7.175  1.00 99.73      MS13
ATOM  46289  N   LEU M  70     267.978 105.382   5.646  1.00 60.81      MS13
ATOM  46290  CA  LEU M  70     266.761 106.050   6.099  1.00 60.81      MS13
ATOM  46291  CB  LEU M  70     266.527 107.329   5.303  1.00 43.87      MS13
ATOM  46292  CG  LEU M  70     265.881 108.464   6.088  1.00 43.87      MS13
ATOM  46293  CD1 LEU M  70     265.285 109.452   5.113  1.00 43.87      MS13
ATOM  46294  CD2 LEU M  70     264.826 107.919   7.032  1.00 43.87      MS13
ATOM  46295  C   LEU M  70     265.545 105.139   5.927  1.00 60.81      MS13
ATOM  46296  O   LEU M  70     264.827 104.857   6.888  1.00 60.81      MS13
ATOM  46297  N   ARG M  71     265.319 104.692   4.692  1.00 68.83      MS13
ATOM  46298  CA  ARG M  71     264.200 103.813   4.381  1.00 68.83      MS13
ATOM  46299  CB  ARG M  71     264.329 103.254   2.969  1.00 85.24      MS13
ATOM  46300  CG  ARG M  71     264.336 104.292   1.873  1.00 85.24      MS13
ATOM  46301  CD  ARG M  71     264.495 103.601   0.534  1.00 85.24      MS13
ATOM  46302  NE  ARG M  71     264.663 104.533  -0.574  1.00 85.24      MS13
ATOM  46303  CZ  ARG M  71     263.753 105.428  -0.940  1.00 85.24      MS13
ATOM  46304  NH1 ARG M  71     262.606 105.515  -0.281  1.00 85.24      MS13
ATOM  46305  NH2 ARG M  71     263.985 106.228  -1.973  1.00 85.24      MS13
ATOM  46306  C   ARG M  71     264.159 102.658   5.358  1.00 68.83      MS13
ATOM  46307  O   ARG M  71     263.148 102.422   6.014  1.00 68.83      MS13
ATOM  46308  N   ALA M  72     265.271 101.941   5.451  1.00 84.96      MS13
ATOM  46309  CA  ALA M  72     265.374 100.797   6.345  1.00 84.96      MS13
ATOM  46310  CB  ALA M  72     266.810 100.304   6.381  1.00159.35      MS13
ATOM  46311  C   ALA M  72     264.898 101.116   7.760  1.00 84.96      MS13
ATOM  46312  O   ALA M  72     264.416 100.228   8.473  1.00 84.96      MS13
ATOM  46313  N   GLU M  73     265.040 102.380   8.162  1.00 72.79      MS13
ATOM  46314  CA  GLU M  73     264.626 102.819   9.494  1.00 72.79      MS13
ATOM  46315  CB  GLU M  73     265.144 104.224   9.773  1.00111.13      MS13
ATOM  46316  CG  GLU M  73     264.868 104.696  11.179  1.00111.13      MS13
ATOM  46317  CD  GLU M  73     265.083 106.183  11.336  1.00111.13      MS13
ATOM  46318  OE1 GLU M  73     264.332 106.960  10.709  1.00111.13      MS13
ATOM  46319  OE2 GLU M  73     266.005 106.576  12.081  1.00111.13      MS13
ATOM  46320  C   GLU M  73     263.105 102.815   9.594  1.00 72.79      MS13
ATOM  46321  O   GLU M  73     262.526 102.196  10.488  1.00 72.79      MS13
ATOM  46322  N   VAL M  74     262.461 103.525   8.677  1.00 36.38      MS13
ATOM  46323  CA  VAL M  74     261.011 103.568   8.649  1.00 36.38      MS13
ATOM  46324  CB  VAL M  74     260.519 104.378   7.442  1.00 48.83      MS13
ATOM  46325  CG1 VAL M  74     259.030 104.605   7.538  1.00 48.83      MS13
ATOM  46326  CG2 VAL M  74     261.243 105.708   7.392  1.00 48.83      MS13
ATOM  46327  C   VAL M  74     260.516 102.117   8.551  1.00 36.38      MS13
ATOM  46328  O   VAL M  74     259.606 101.702   9.269  1.00 36.38      MS13
ATOM  46329  N   ALA M  75     261.124 101.342   7.666  1.00 76.84      MS13
ATOM  46330  CA  ALA M  75     260.739  99.948   7.546  1.00 76.84      MS13
ATOM  46331  CB  ALA M  75     261.697  99.221   6.614  1.00157.70      MS13
ATOM  46332  C   ALA M  75     260.806  99.342   8.953  1.00 76.84      MS13
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ATOM  46333  O   ALA M  75     259.957  98.536   9.350  1.00 76.84      MS13
ATOM  46334  N   ALA M  76     261.823  99.750   9.705  1.00 80.28      MS13
ATOM  46335  CA  ALA M  76     262.014  99.262  11.061  1.00 80.28      MS13
ATOM  46336  CB  ALA M  76     263.407  99.626  11.555  1.00200.77      MS13
ATOM  46337  C   ALA M  76     260.957  99.842  11.990  1.00 80.28      MS13
ATOM  46338  O   ALA M  76     260.394  99.131  12.820  1.00 80.28      MS13
ATOM  46339  N   ASN M  77     260.688 101.134  11.860  1.00 83.10      MS13
ATOM  46340  CA  ASN M  77     259.676 101.748  12.702  1.00 83.10      MS13
ATOM  46341  CB  ASN M  77     259.511 103.228  12.369  1.00108.21      MS13
ATOM  46342  CG  ASN M  77     260.729 104.037  12.721  1.00108.21      MS13
ATOM  46343  OD1 ASN M  77     261.237 103.961  13.840  1.00108.21      MS13
ATOM  46344  ND2 ASN M  77     261.206 104.825  11.769  1.00108.21      MS13
ATOM  46345  C   ASN M  77     258.345 101.041  12.496  1.00 83.10      MS13
ATOM  46346  O   ASN M  77     257.817 100.411  13.411  1.00 83.10      MS13
ATOM  46347  N   ILE M  78     257.809 101.142  11.287  1.00 69.10      MS13
ATOM  46348  CA  ILE M  78     256.533 100.518  10.986  1.00 69.10      MS13
ATOM  46349  CB  ILE M  78     256.218 100.609   9.480  1.00 53.04      MS13
ATOM  46350  CG2 ILE M  78     254.968  99.793   9.142  1.00 53.04      MS13
ATOM  46351  CG1 ILE M  78     256.015 102.086   9.116  1.00 53.04      MS13
ATOM  46352  CD1 ILE M  78     255.833 102.350   7.660  1.00 53.04      MS13
ATOM  46353  C   ILE M  78     256.491  99.077  11.463  1.00 69.10      MS13
ATOM  46354  O   ILE M  78     255.577  98.690  12.191  1.00 69.10      MS13
ATOM  46355  N   LYS M  79     257.482  98.281  11.082  1.00 64.17      MS13
ATOM  46356  CA  LYS M  79     257.481  96.899  11.529  1.00 64.17      MS13
ATOM  46357  CB  LYS M  79     258.742  96.164  11.085  1.00 76.71      MS13
ATOM  46358  CG  LYS M  79     258.749  94.726  11.586  1.00 76.71      MS13
ATOM  46359  CD  LYS M  79     259.941  93.910  11.113  1.00 76.71      MS13
ATOM  46360  CE  LYS M  79     259.847  92.486  11.643  1.00 76.71      MS13
ATOM  46361  NZ  LYS M  79     260.892  91.594  11.078  1.00 76.71      MS13
ATOM  46362  C   LYS M  79     257.388  96.841  13.049  1.00 64.17      MS13
ATOM  46363  O   LYS M  79     256.807  95.913  13.611  1.00 64.17      MS13
ATOM  46364  N   ARG M  80     257.954  97.842  13.711  1.00 69.38      MS13
ATOM  46365  CA  ARG M  80     257.943  97.883  15.165  1.00 69.38      MS13
ATOM  46366  CB  ARG M  80     258.736  99.091  15.669  1.00148.74      MS13
ATOM  46367  CG  ARG M  80     258.854  99.176  17.183  1.00148.74      MS13
ATOM  46368  CD  ARG M  80     259.581 100.443  17.588  1.00148.74      MS13
ATOM  46369  NE  ARG M  80     258.808 101.637  17.262  1.00148.74      MS13
ATOM  46370  CZ  ARG M  80     259.339 102.780  16.839  1.00148.74      MS13
ATOM  46371  NH1 ARG M  80     260.653 102.890  16.683  1.00148.74      MS13
ATOM  46372  NH2 ARG M  80     258.555 103.815  16.572  1.00148.74      MS13
ATOM  46373  C   ARG M  80     256.533  97.922  15.737  1.00 69.38      MS13
ATOM  46374  O   ARG M  80     256.040  96.916  16.248  1.00 69.38      MS13
ATOM  46375  N   LEU M  81     255.885  99.080  15.655  1.00 79.94      MS13
ATOM  46376  CA  LEU M  81     254.536  99.217  16.195  1.00 79.94      MS13
ATOM  46377  CB  LEU M  81     253.950 100.600  15.884  1.00 54.52      MS13
ATOM  46378  CG  LEU M  81     253.775 101.123  14.464  1.00 54.52      MS13
ATOM  46379  CD1 LEU M  81     253.330 102.584  14.540  1.00 54.52      MS13
ATOM  46380  CD2 LEU M  81     255.077 101.025  13.711  1.00 54.52      MS13
ATOM  46381  C   LEU M  81     253.639  98.135  15.645  1.00 79.94      MS13
ATOM  46382  O   LEU M  81     252.553  97.879  16.164  1.00 79.94      MS13
ATOM  46383  N   MET M  82     254.110  97.495  14.587  1.00 65.65      MS13
ATOM  46384  CA  MET M  82     253.364  96.420  13.969  1.00 65.65      MS13
ATOM  46385  CB  MET M  82     253.771  96.295  12.497  1.00 72.73      MS13
ATOM  46386  CG  MET M  82     252.894  95.368  11.681  1.00 72.73      MS13
ATOM  46387  SD  MET M  82     253.382  95.302   9.956  1.00 72.73      MS13
ATOM  46388  CE  MET M  82     252.268  96.469   9.253  1.00 72.73      MS13
ATOM  46389  C   MET M  82     253.651  95.123  14.739  1.00 65.65      MS13
ATOM  46390  O   MET M  82     252.775  94.275  14.898  1.00 65.65      MS13
ATOM  46391  N   ASP M  83     254.875  94.979  15.232  1.00 96.32      MS13
ATOM  46392  CA  ASP M  83     255.235  93.788  15.985  1.00 96.32      MS13
ATOM  46393  CB  ASP M  83     256.749  93.672  16.116  1.00124.70      MS13
ATOM  46394  CG  ASP M  83     257.413  93.306  14.810  1.00124.70      MS13
ATOM  46395  OD1 ASP M  83     256.972  92.322  14.177  1.00124.70      MS13
ATOM  46396  OD2 ASP M  83     258.377  93.997  14.422  1.00124.70      MS13
ATOM  46397  C   ASP M  83     254.595  93.788  17.364  1.00 96.32      MS13
ATOM  46398  O   ASP M  83     254.367  92.732  17.952  1.00 96.32      MS13
ATOM  46399  N   ILE M  84     254.315  94.974  17.887  1.00 85.48      MS13
ATOM  46400  CA  ILE M  84     253.670  95.087  19.189  1.00 85.48      MS13
ATOM  46401  CB  ILE M  84     254.234  96.263  19.996  1.00 83.70      MS13
ATOM  46402  CG2 ILE M  84     255.655  95.962  20.421  1.00 83.70      MS13
ATOM  46403  CG1 ILE M  84     254.174  97.539  19.153  1.00 83.70      MS13
ATOM  46404  CD1 ILE M  84     254.581  98.791  19.888  1.00 83.70      MS13
ATOM  46405  C   ILE M  84     252.199  95.353  18.917  1.00 85.48      MS13
ATOM  46406  O   ILE M  84     251.880  96.128  18.014  1.00 85.48      MS13
ATOM  46407  N   GLY M  85     251.311  94.712  19.679  1.00 91.43      MS13
ATOM  46408  CA  GLY M  85     249.879  94.908  19.485  1.00 91.43      MS13
ATOM  46409  C   GLY M  85     249.615  96.189  18.719  1.00 91.43      MS13
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ATOM  46410  O   GLY M  85     249.380  96.161  17.514  1.00 91.43      MS13
ATOM  46411  N   CYS M  86     249.673  97.310  19.429  1.00 69.55      MS13
ATOM  46412  CA  CYS M  86     249.493  98.633  18.848  1.00 69.55      MS13
ATOM  46413  CB  CYS M  86     250.852  99.131  18.353  1.00 83.26      MS13
ATOM  46414  SG  CYS M  86     250.829 100.748  17.576  1.00 83.26      MS13
ATOM  46415  C   CYS M  86     248.456  98.769  17.721  1.00 69.55      MS13
ATOM  46416  O   CYS M  86     248.580  98.146  16.664  1.00 69.55      MS13
ATOM  46417  N   TYR M  87     247.444  99.605  17.950  1.00 81.06      MS13
ATOM  46418  CA  TYR M  87     246.399  99.854  16.957  1.00 81.06      MS13
ATOM  46419  CB  TYR M  87     245.432 100.927  17.465  1.00 57.84      MS13
ATOM  46420  CG  TYR M  87     244.287 101.249  16.521  1.00 57.84      MS13
ATOM  46421  CD1 TYR M  87     243.330 100.285  16.198  1.00 57.84      MS13
ATOM  46422  CE1 TYR M  87     242.258 100.583  15.348  1.00 57.84      MS13
ATOM  46423  CD2 TYR M  87     244.146 102.524  15.968  1.00 57.84      MS13
ATOM  46424  CE2 TYR M  87     243.075 102.833  15.114  1.00 57.84      MS13
ATOM  46425  CZ  TYR M  87     242.137 101.856  14.810  1.00 57.84      MS13
ATOM  46426  OH  TYR M  87     241.087 102.142  13.962  1.00 57.84      MS13
ATOM  46427  C   TYR M  87     247.071 100.354  15.685  1.00 81.06      MS13
ATOM  46428  O   TYR M  87     246.808  99.862  14.581  1.00 81.06      MS13
ATOM  46429  N   ARG M  88     247.941 101.344  15.865  1.00 80.04      MS13
ATOM  46430  CA  ARG M  88     248.692 101.946  14.772  1.00 80.04      MS13
ATOM  46431  CB  ARG M  88     249.841 102.780  15.338  1.00121.43      MS13
ATOM  46432  CG  ARG M  88     250.254 103.958  14.493  1.00121.43      MS13
ATOM  46433  CD  ARG M  88     249.449 105.185  14.859  1.00121.43      MS13
ATOM  46434  NE  ARG M  88     249.970 106.383  14.210  1.00121.43      MS13
ATOM  46435  CZ  ARG M  88     251.237 106.781  14.288  1.00121.43      MS13
ATOM  46436  NH1 ARG M  88     252.116 106.073  14.990  1.00121.43      MS13
ATOM  46437  NH2 ARG M  88     251.627 107.888  13.664  1.00121.43      MS13
ATOM  46438  C   ARG M  88     249.256 100.808  13.933  1.00 80.04      MS13
ATOM  46439  O   ARG M  88     249.263 100.859  12.703  1.00 80.04      MS13
ATOM  46440  N   GLY M  89     249.724  99.774  14.621  1.00 60.25      MS13
ATOM  46441  CA  GLY M  89     250.288  98.629  13.936  1.00 60.25      MS13
ATOM  46442  C   GLY M  89     249.253  97.935  13.086  1.00 60.25      MS13
ATOM  46443  O   GLY M  89     249.462  97.723  11.893  1.00 60.25      MS13
ATOM  46444  N   LEU M  90     248.130  97.588  13.706  1.00 65.85      MS13
ATOM  46445  CA  LEU M  90     247.058  96.909  13.002  1.00 65.85      MS13
ATOM  46446  CB  LEU M  90     245.821  96.778  13.886  1.00128.24      MS13
ATOM  46447  CG  LEU M  90     245.923  95.777  15.036  1.00128.24      MS13
ATOM  46448  CD1 LEU M  90     244.555  95.606  15.676  1.00128.24      MS13
ATOM  46449  CD2 LEU M  90     246.423  94.442  14.513  1.00128.24      MS13
ATOM  46450  C   LEU M  90     246.693  97.633  11.729  1.00 65.85      MS13
ATOM  46451  O   LEU M  90     246.573  97.016  10.681  1.00 65.85      MS13
ATOM  46452  N   ARG M  91     246.525  98.943  11.803  1.00 63.70      MS13
ATOM  46453  CA  ARG M  91     246.162  99.681  10.604  1.00 63.70      MS13
ATOM  46454  CB  ARG M  91     245.984 101.166  10.927  1.00 56.12      MS13
ATOM  46455  CG  ARG M  91     245.007 101.419  12.054  1.00 56.12      MS13
ATOM  46456  CD  ARG M  91     243.649 100.802  11.761  1.00 56.12      MS13
ATOM  46457  NE  ARG M  91     242.876 101.602  10.820  1.00 56.12      MS13
ATOM  46458  CZ  ARG M  91     241.626 101.324  10.470  1.00 56.12      MS13
ATOM  46459  NH1 ARG M  91     241.029 100.263  10.987  1.00 56.12      MS13
ATOM  46460  NH2 ARG M  91     240.970 102.111   9.628  1.00 56.12      MS13
ATOM  46461  C   ARG M  91     247.188  99.493   9.482  1.00 63.70      MS13
ATOM  46462  O   ARG M  91     246.829  99.469   8.302  1.00 63.70      MS13
ATOM  46463  N   HIS M  92     248.463  99.369   9.837  1.00 80.30      MS13
ATOM  46464  CA  HIS M  92     249.481  99.155   8.818  1.00 80.30      MS13
ATOM  46465  CB  HIS M  92     250.890  99.305   9.407  1.00 62.06      MS13
ATOM  46466  CG  HIS M  92     251.344 100.726   9.535  1.00 62.06      MS13
ATOM  46467  CD2 HIS M  92     251.607 101.486  10.624  1.00 62.06      MS13
ATOM  46468  ND1 HIS M  92     251.545 101.542   8.444  1.00 62.06      MS13
ATOM  46469  CE1 HIS M  92     251.910 102.744   8.854  1.00 62.06      MS13
ATOM  46470  NE2 HIS M  92     251.954 102.737  10.173  1.00 62.06      MS13
ATOM  46471  C   HIS M  92     249.257  97.742   8.302  1.00 80.30      MS13
ATOM  46472  O   HIS M  92     249.457  97.462   7.126  1.00 80.30      MS13
ATOM  46473  N   ARG M  93     248.823  96.861   9.199  1.00 83.56      MS13
ATOM  46474  CA  ARG M  93     248.536  95.473   8.853  1.00 83.56      MS13
ATOM  46475  CB  ARG M  93     248.144  94.683  10.104  1.00124.39      MS13
ATOM  46476  CG  ARG M  93     249.300  94.181  10.935  1.00124.39      MS13
ATOM  46477  CD  ARG M  93     249.897  92.935  10.315  1.00124.39      MS13
ATOM  46478  NE  ARG M  93     250.991  92.388  11.114  1.00124.39      MS13
ATOM  46479  CZ  ARG M  93     250.872  91.975  12.373  1.00124.39      MS13
ATOM  46480  NH1 ARG M  93     249.701  92.045  12.995  1.00124.39      MS13
ATOM  46481  NH2 ARG M  93     251.929  91.484  13.006  1.00124.39      MS13
ATOM  46482  C   ARG M  93     247.383  95.422   7.858  1.00 83.56      MS13
ATOM  46483  O   ARG M  93     247.582  95.138   6.676  1.00 83.56      MS13
ATOM  46484  N   ARG M  94     246.177  95.691   8.353  1.00 96.87      MS13
ATOM  46485  CA  ARG M  94     244.971  95.682   7.535  1.00 96.87      MS13
ATOM  46486  CB  ARG M  94     243.835  96.408   8.256  1.00152.09      MS13
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ATOM  46487  CG  ARG M  94     243.537  95.894   9.650  1.00152.09      MS13
ATOM  46488  CD  ARG M  94     242.888  94.526   9.628  1.00152.09      MS13
ATOM  46489  NE  ARG M  94     242.586  94.070  10.981  1.00152.09      MS13
ATOM  46490  CZ  ARG M  94     241.850  93.002  11.263  1.00152.09      MS13
ATOM  46491  NH1 ARG M  94     241.335  92.275  10.282  1.00152.09      MS13
ATOM  46492  NH2 ARG M  94     241.624  92.664  12.526  1.00152.09      MS13
ATOM  46493  C   ARG M  94     245.234  96.375   6.208  1.00 96.87      MS13
ATOM  46494  O   ARG M  94     245.009  95.802   5.142  1.00 96.87      MS13
ATOM  46495  N   GLY M  95     245.710  97.614   6.282  1.00 53.06      MS13
ATOM  46496  CA  GLY M  95     245.992  98.373   5.077  1.00 53.06      MS13
ATOM  46497  C   GLY M  95     245.144  99.624   5.005  1.00 53.06      MS13
ATOM  46498  O   GLY M  95     244.994 100.237   3.946  1.00 53.06      MS13
ATOM  46499  N   LEU M  96     244.589 100.006   6.148  1.00 79.03      MS13
ATOM  46500  CA  LEU M  96     243.740 101.184   6.240  1.00 79.03      MS13
ATOM  46501  CB  LEU M  96     242.578 100.899   7.177  1.00 72.67      MS13
ATOM  46502  CG  LEU M  96     241.627  99.857   6.606  1.00 72.67      MS13
ATOM  46503  CD1 LEU M  96     240.992  99.034   7.717  1.00 72.67      MS13
ATOM  46504  CD2 LEU M  96     240.600 100.583   5.750  1.00 72.67      MS13
ATOM  46505  C   LEU M  96     244.524 102.359   6.768  1.00 79.03      MS13
ATOM  46506  O   LEU M  96     245.584 102.185   7.364  1.00 79.03      MS13
ATOM  46507  N   PRO M  97     244.014 103.580   6.558  1.00 52.84      MS13
ATOM  46508  CD  PRO M  97     242.730 103.969   5.961  1.00 42.39      MS13
ATOM  46509  CA  PRO M  97     244.737 104.751   7.058  1.00 52.84      MS13
ATOM  46510  CB  PRO M  97     243.777 105.909   6.773  1.00 42.39      MS13
ATOM  46511  CG  PRO M  97     242.443 105.255   6.688  1.00 42.39      MS13
ATOM  46512  C   PRO M  97     245.052 104.555   8.536  1.00 52.84      MS13
ATOM  46513  O   PRO M  97     244.519 103.643   9.172  1.00 52.84      MS13
ATOM  46514  N   VAL M  98     245.917 105.399   9.084  1.00 57.59      MS13
ATOM  46515  CA  VAL M  98     246.328 105.243  10.471  1.00 57.59      MS13
ATOM  46516  CB  VAL M  98     247.803 104.808  10.543  1.00 38.37      MS13
ATOM  46517  CG1 VAL M  98     248.048 103.571   9.684  1.00 38.37      MS13
ATOM  46518  CG2 VAL M  98     248.676 105.944  10.072  1.00 38.37      MS13
ATOM  46519  C   VAL M  98     246.197 106.496  11.312  1.00 57.59      MS13
ATOM  46520  O   VAL M  98     246.247 106.431  12.536  1.00 57.59      MS13
ATOM  46521  N   ARG M  99     246.036 107.638  10.663  1.00 65.30      MS13
ATOM  46522  CA  ARG M  99     245.947 108.893  11.392  1.00 65.30      MS13
ATOM  46523  CB  ARG M  99     246.776 109.950  10.667  1.00 60.06      MS13
ATOM  46524  CG  ARG M  99     248.177 109.451  10.421  1.00 60.06      MS13
ATOM  46525  CD  ARG M  99     249.162 110.515   9.996  1.00 60.06      MS13
ATOM  46526  NE  ARG M  99     250.474 109.886   9.887  1.00 60.06      MS13
ATOM  46527  CZ  ARG M  99     251.601 110.510   9.568  1.00 60.06      MS13
ATOM  46528  NH1 ARG M  99     251.602 111.817   9.320  1.00 60.06      MS13
ATOM  46529  NH2 ARG M  99     252.723 109.807   9.484  1.00 60.06      MS13
ATOM  46530  C   ARG M  99     244.534 109.393  11.640  1.00 65.30      MS13
ATOM  46531  O   ARG M  99     244.162 110.491  11.206  1.00 65.30      MS13
ATOM  46532  N   GLY M 100     243.764 108.575  12.356  1.00 86.92      MS13
ATOM  46533  CA  GLY M 100     242.391 108.912  12.689  1.00 86.92      MS13
ATOM  46534  C   GLY M 100     241.615 109.518  11.542  1.00 86.92      MS13
ATOM  46535  O   GLY M 100     241.316 110.714  11.541  1.00 86.92      MS13
ATOM  46536  N   GLN M 101     241.279 108.688  10.563  1.00 93.22      MS13
ATOM  46537  CA  GLN M 101     240.547 109.164   9.408  1.00 93.22      MS13
ATOM  46538  CB  GLN M 101     241.474 109.190   8.201  1.00 55.17      MS13
ATOM  46539  CG  GLN M 101     242.611 110.196   8.346  1.00 55.17      MS13
ATOM  46540  CD  GLN M 101     243.964 109.633   7.947  1.00 55.17      MS13
ATOM  46541  OE1 GLN M 101     244.512 108.757   8.618  1.00 55.17      MS13
ATOM  46542  NE2 GLN M 101     244.507 110.135   6.848  1.00 55.17      MS13
ATOM  46543  C   GLN M 101     239.322 108.318   9.121  1.00 93.22      MS13
ATOM  46544  O   GLN M 101     239.162 107.224   9.671  1.00 93.22      MS13
ATOM  46545  N   ARG M 102     238.455 108.841   8.259  1.00 66.51      MS13
ATOM  46546  CA  ARG M 102     237.221 108.162   7.896  1.00 66.51      MS13
ATOM  46547  CB  ARG M 102     236.167 109.186   7.497  1.00 81.15      MS13
ATOM  46548  CG  ARG M 102     236.615 110.109   6.386  1.00 81.15      MS13
ATOM  46549  CD  ARG M 102     235.460 110.419   5.449  1.00 81.15      MS13
ATOM  46550  NE  ARG M 102     234.362 111.124   6.110  1.00 81.15      MS13
ATOM  46551  CZ  ARG M 102     233.094 110.718   6.099  1.00 81.15      MS13
ATOM  46552  NH1 ARG M 102     232.753 109.602   5.464  1.00 81.15      MS13
ATOM  46553  NH2 ARG M 102     232.166 111.436   6.715  1.00 81.15      MS13
ATOM  46554  C   ARG M 102     237.412 107.181   6.757  1.00 66.51      MS13
ATOM  46555  O   ARG M 102     238.037 107.498   5.756  1.00 66.51      MS13
ATOM  46556  N   THR M 103     236.864 105.985   6.901  1.00 42.69      MS13
ATOM  46557  CA  THR M 103     236.988 105.002   5.850  1.00 42.69      MS13
ATOM  46558  CB  THR M 103     237.318 103.639   6.434  1.00 57.64      MS13
ATOM  46559  OG1 THR M 103     236.310 103.268   7.375  1.00 57.64      MS13
ATOM  46560  CG2 THR M 103     238.646 103.682   7.128  1.00 57.64      MS13
ATOM  46561  C   THR M 103     235.733 104.880   4.973  1.00 42.69      MS13
ATOM  46562  O   THR M 103     235.844 104.675   3.758  1.00 42.69      MS13
ATOM  46563  N   ARG M 104     234.552 105.009   5.578  1.00 48.81      MS13
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ATOM  46564  CA  ARG M 104     233.289 104.905   4.846  1.00 48.81      MS13
ATOM  46565  CB  ARG M 104     232.157 105.602   5.586  1.00 54.95      MS13
ATOM  46566  CG  ARG M 104     230.829 105.443   4.870  1.00 54.95      MS13
ATOM  46567  CD  ARG M 104     229.692 106.120   5.589  1.00 54.95      MS13
ATOM  46568  NE  ARG M 104     228.718 105.167   6.100  1.00 54.95      MS13
ATOM  46569  CZ  ARG M 104     227.520 105.513   6.553  1.00 54.95      MS13
ATOM  46570  NH1 ARG M 104     227.160 106.788   6.547  1.00 54.95      MS13
ATOM  46571  NH2 ARG M 104     226.687 104.589   7.022  1.00 54.95      MS13
ATOM  46572  C   ARG M 104     233.374 105.480   3.446  1.00 48.81      MS13
ATOM  46573  O   ARG M 104     232.846 104.899   2.502  1.00 48.81      MS13
ATOM  46574  N   THR M 105     233.992 106.644   3.314  1.00 43.80      MS13
ATOM  46575  CA  THR M 105     234.186 107.220   1.995  1.00 43.80      MS13
ATOM  46576  CB  THR M 105     233.364 108.496   1.767  1.00 40.30      MS13
ATOM  46577  OG1 THR M 105     233.761 109.501   2.696  1.00 40.30      MS13
ATOM  46578  CG2 THR M 105     231.908 108.208   1.940  1.00 40.30      MS13
ATOM  46579  C   THR M 105     235.668 107.529   1.922  1.00 43.80      MS13
ATOM  46580  O   THR M 105     236.371 107.394   2.925  1.00 43.80      MS13
ATOM  46581  N   ASN M 106     236.144 107.921   0.743  1.00 68.80      MS13
ATOM  46582  CA  ASN M 106     237.557 108.222   0.539  1.00 68.80      MS13
ATOM  46583  CB  ASN M 106     237.928 109.553   1.187  1.00 60.63      MS13
ATOM  46584  CG  ASN M 106     237.050 110.680   0.719  1.00 60.63      MS13
ATOM  46585  OD1 ASN M 106     236.595 110.684  -0.423  1.00 60.63      MS13
ATOM  46586  ND2 ASN M 106     236.809 111.652   1.593  1.00 60.63      MS13
ATOM  46587  C   ASN M 106     238.439 107.119   1.105  1.00 68.80      MS13
ATOM  46588  O   ASN M 106     238.026 105.960   1.189  1.00 68.80      MS13
ATOM  46589  N   ALA M 107     239.650 107.490   1.503  1.00 56.16      MS13
ATOM  46590  CA  ALA M 107     240.601 106.534   2.052  1.00 56.16      MS13
ATOM  46591  CB  ALA M 107     239.900 105.575   3.020  1.00 26.34      MS13
ATOM  46592  C   ALA M 107     241.170 105.767   0.880  1.00 56.16      MS13
ATOM  46593  O   ALA M 107     241.819 104.730   1.046  1.00 56.16      MS13
ATOM  46594  N   ARG M 108     240.918 106.294  -0.311  1.00 67.09      MS13
ATOM  46595  CA  ARG M 108     241.376 105.650  -1.527  1.00 67.09      MS13
ATOM  46596  CB  ARG M 108     240.834 106.368  -2.771  1.00 46.97      MS13
ATOM  46597  CG  ARG M 108     239.316 106.445  -2.915  1.00 46.97      MS13
ATOM  46598  CD  ARG M 108     238.587 105.182  -2.465  1.00 46.97      MS13
ATOM  46599  NE  ARG M 108     239.216 103.937  -2.892  1.00 46.97      MS13
ATOM  46600  CZ  ARG M 108     238.786 102.738  -2.511  1.00 46.97      MS13
ATOM  46601  NH1 ARG M 108     237.733 102.636  -1.706  1.00 46.97      MS13
ATOM  46602  NH2 ARG M 108     239.405 101.644  -2.923  1.00 46.97      MS13
ATOM  46603  C   ARG M 108     242.886 105.609  -1.622  1.00 67.09      MS13
ATOM  46604  O   ARG M 108     243.471 104.577  -1.952  1.00 67.09      MS13
ATOM  46605  N   THR M 109     243.517 106.735  -1.325  1.00 44.20      MS13
ATOM  46606  CA  THR M 109     244.960 106.834  -1.432  1.00 44.20      MS13
ATOM  46607  CB  THR M 109     245.419 108.248  -1.127  1.00 58.17      MS13
ATOM  46608  OG1 THR M 109     246.628 108.527  -1.841  1.00 58.17      MS13
ATOM  46609  CG2 THR M 109     245.677 108.386   0.341  1.00 58.17      MS13
ATOM  46610  C   THR M 109     245.741 105.869  -0.547  1.00 44.20      MS13
ATOM  46611  O   THR M 109     246.951 105.993  -0.423  1.00 44.20      MS13
ATOM  46612  N   ARG M 110     245.057 104.909   0.062  1.00 52.96      MS13
ATOM  46613  CA  ARG M 110     245.723 103.944   0.925  1.00 52.96      MS13
ATOM  46614  CB  ARG M 110     245.763 104.465   2.371  1.00 85.36      MS13
ATOM  46615  CG  ARG M 110     246.636 103.634   3.291  1.00 85.36      MS13
ATOM  46616  CD  ARG M 110     247.435 104.490   4.272  1.00 85.36      MS13
ATOM  46617  NE  ARG M 110     248.635 103.787   4.733  1.00 85.36      MS13
ATOM  46618  CZ  ARG M 110     248.628 102.630   5.394  1.00 85.36      MS13
ATOM  46619  NH1 ARG M 110     247.481 102.032   5.689  1.00 85.36      MS13
ATOM  46620  NH2 ARG M 110     249.770 102.051   5.740  1.00 85.36      MS13
ATOM  46621  C   ARG M 110     245.002 102.604   0.857  1.00 52.96      MS13
ATOM  46622  O   ARG M 110     245.525 101.578   1.288  1.00 52.96      MS13
ATOM  46623  N   LYS M 111     243.790 102.616   0.317  1.00 86.10      MS13
ATOM  46624  CA  LYS M 111     243.021 101.391   0.169  1.00 86.10      MS13
ATOM  46625  CB  LYS M 111     241.531 101.674   0.328  1.00 60.36      MS13
ATOM  46626  CG  LYS M 111     241.148 102.092   1.725  1.00 60.36      MS13
ATOM  46627  CD  LYS M 111     239.654 102.328   1.864  1.00 60.36      MS13
ATOM  46628  CE  LYS M 111     238.855 101.033   1.840  1.00 60.36      MS13
ATOM  46629  NZ  LYS M 111     237.429 101.298   2.197  1.00 60.36      MS13
ATOM  46630  C   LYS M 111     243.298 100.842  -1.222  1.00 86.10      MS13
ATOM  46631  O   LYS M 111     243.191  99.640  -1.470  1.00 86.10      MS13
ATOM  46632  N   GLY M 112     243.669 101.742  -2.126  1.00 54.94      MS13
ATOM  46633  CA  GLY M 112     243.963 101.353  -3.489  1.00 54.94      MS13
ATOM  46634  C   GLY M 112     242.763 101.612  -4.367  1.00 54.94      MS13
ATOM  46635  O   GLY M 112     241.822 102.275  -3.939  1.00 54.94      MS13
ATOM  46636  N   PRO M 113     242.767 101.116  -5.607  1.00 71.14      MS13
ATOM  46637  CD  PRO M 113     243.876 100.458  -6.317  1.00 72.57      MS13
ATOM  46638  CA  PRO M 113     241.628 101.333  -6.500  1.00 71.14      MS13
ATOM  46639  CB  PRO M 113     242.024 100.552  -7.744  1.00 72.57      MS13
ATOM  46640  CG  PRO M 113     243.524 100.715  -7.759  1.00 72.57      MS13
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ATOM  46641  C   PRO M 113     240.342 100.816  -5.857  1.00 71.14      MS13
ATOM  46642  O   PRO M 113     240.388 100.018  -4.920  1.00 71.14      MS13
ATOM  46643  N   ARG M 114     239.199 101.274  -6.357  1.00 59.90      MS13
ATOM  46644  CA  ARG M 114     237.914 100.870  -5.809  1.00 59.90      MS13
ATOM  46645  CB  ARG M 114     236.827 101.862  -6.228  1.00 97.71      MS13
ATOM  46646  CG  ARG M 114     237.061 103.300  -5.784  1.00 97.71      MS13
ATOM  46647  CD  ARG M 114     235.893 104.185  -6.193  1.00 97.71      MS13
ATOM  46648  NE  ARG M 114     236.093 105.601  -5.888  1.00 97.71      MS13
ATOM  46649  CZ  ARG M 114     236.067 106.124  -4.667  1.00 97.71      MS13
ATOM  46650  NH1 ARG M 114     235.850 105.346  -3.613  1.00 97.71      MS13
ATOM  46651  NH2 ARG M 114     236.244 107.431  -4.501  1.00 97.71      MS13
ATOM  46652  C   ARG M 114     237.523  99.486  -6.286  1.00 59.90      MS13
ATOM  46653  O   ARG M 114     237.300  99.288  -7.475  1.00 59.90      MS13
ATOM  46654  N   LYS M 115     237.447  98.522  -5.375  1.00 52.32      MS13
ATOM  46655  CA  LYS M 115     237.033  97.173  -5.756  1.00 52.32      MS13
ATOM  46656  CB  LYS M 115     237.639  96.121  -4.820  1.00 80.11      MS13
ATOM  46657  CG  LYS M 115     239.150  96.043  -4.847  1.00 80.11      MS13
ATOM  46658  CD  LYS M 115     239.774  97.042  -3.894  1.00 80.11      MS13
ATOM  46659  CE  LYS M 115     239.520  96.639  -2.458  1.00 80.11      MS13
ATOM  46660  NZ  LYS M 115     239.941  95.229  -2.226  1.00 80.11      MS13
ATOM  46661  C   LYS M 115     235.505  97.106  -5.673  1.00 52.32      MS13
ATOM  46662  O   LYS M 115     234.947  96.465  -4.775  1.00 52.32      MS13
ATOM  46663  N   THR M 116     234.835  97.782  -6.605  1.00 49.52      MS13
ATOM  46664  CA  THR M 116     233.372  97.826  -6.646  1.00 49.52      MS13
ATOM  46665  CB  THR M 116     232.883  98.457  -7.949  1.00 60.39      MS13
ATOM  46666  OG1 THR M 116     233.432  99.772  -8.070  1.00 60.39      MS13
ATOM  46667  CG2 THR M 116     231.367  98.532  -7.967  1.00 60.39      MS13
ATOM  46668  C   THR M 116     232.713  96.460  -6.519  1.00 49.52      MS13
ATOM  46669  O   THR M 116     233.218  95.464  -7.036  1.00 49.52      MS13
ATOM  46670  N   VAL M 117     231.579  96.412  -5.832  1.00 72.56      MS13
ATOM  46671  CA  VAL M 117     230.880  95.150  -5.670  1.00 72.56      MS13
ATOM  46672  CB  VAL M 117     231.126  94.552  -4.289  1.00 50.37      MS13
ATOM  46673  CG1 VAL M 117     230.649  93.117  -4.260  1.00 50.37      MS13
ATOM  46674  CG2 VAL M 117     232.588  94.611  -3.964  1.00 50.37      MS13
ATOM  46675  C   VAL M 117     229.383  95.309  -5.868  1.00 72.56      MS13
ATOM  46676  O   VAL M 117     228.845  96.410  -5.758  1.00 72.56      MS13
ATOM  46677  N   ALA M 118     228.712  94.203  -6.166  1.00 77.05      MS13
ATOM  46678  CA  ALA M 118     227.277  94.229  -6.378  1.00 77.05      MS13
ATOM  46679  CB  ALA M 118     226.779  92.837  -6.720  1.00 92.02      MS13
ATOM  46680  C   ALA M 118     226.575  94.746  -5.131  1.00 77.05      MS13
ATOM  46681  O   ALA M 118     226.947  94.399  -4.008  1.00 77.05      MS13
ATOM  46682  N   GLY M 119     225.569  95.589  -5.342  1.00113.50      MS13
ATOM  46683  CA  GLY M 119     224.797  96.152  -4.250  1.00113.50      MS13
ATOM  46684  C   GLY M 119     223.352  96.156  -4.698  1.00113.50      MS13
ATOM  46685  O   GLY M 119     223.074  95.800  -5.844  1.00113.50      MS13
TER   46685      GLY M 119                                              MS13
ATOM  46746  CB  ALA N   2     214.660 117.762  27.303  1.00 17.77      NS14
ATOM  46747  C   ALA N   2     214.661 115.949  29.009  1.00 76.09      NS14
ATOM  46748  O   ALA N   2     213.584 116.421  29.364  1.00 76.09      NS14
ATOM  46749  N   ALA N   2     215.698 115.559  26.814  1.00 76.09      NS14
ATOM  46750  CA  ALA N   2     215.436 116.573  27.870  1.00 76.09      NS14
ATOM  46751  N   ARG N   3     215.195 114.869  29.561  1.00127.65      NS14
ATOM  46752  CA  ARG N   3     214.551 114.231  30.692  1.00127.65      NS14
ATOM  46753  CB  ARG N   3     215.036 112.794  30.857  1.00108.72      NS14
ATOM  46754  CG  ARG N   3     214.805 111.932  29.637  1.00108.72      NS14
ATOM  46755  CD  ARG N   3     216.110 111.631  28.944  1.00108.72      NS14
ATOM  46756  NE  ARG N   3     217.022 110.933  29.840  1.00108.72      NS14
ATOM  46757  CZ  ARG N   3     218.215 110.475  29.482  1.00108.72      NS14
ATOM  46758  NH1 ARG N   3     218.647 110.641  28.237  1.00108.72      NS14
ATOM  46759  NH2 ARG N   3     218.977 109.854  30.373  1.00108.72      NS14
ATOM  46760  C   ARG N   3     215.016 115.070  31.866  1.00127.65      NS14
ATOM  46761  O   ARG N   3     216.167 115.506  31.884  1.00127.65      NS14
ATOM  46762  N   LYS N   4     214.138 115.323  32.831  1.00 76.68      NS14
ATOM  46763  CA  LYS N   4     214.540 116.129  33.971  1.00 76.68      NS14
ATOM  46764  CB  LYS N   4     213.487 116.062  35.083  1.00169.07      NS14
ATOM  46765  CG  LYS N   4     212.228 116.880  34.806  1.00169.07      NS14
ATOM  46766  CD  LYS N   4     211.324 116.932  36.037  1.00169.07      NS14
ATOM  46767  CE  LYS N   4     210.110 117.836  35.824  1.00169.07      NS14
ATOM  46768  NZ  LYS N   4     209.239 117.932  37.039  1.00169.07      NS14
ATOM  46769  C   LYS N   4     215.893 115.640  34.485  1.00 76.68      NS14
ATOM  46770  O   LYS N   4     216.801 116.435  34.720  1.00 76.68      NS14
ATOM  46771  N   ALA N   5     216.034 114.326  34.625  1.00 68.93      NS14
ATOM  46772  CA  ALA N   5     217.280 113.750  35.118  1.00 68.93      NS14
ATOM  46773  CB  ALA N   5     217.243 112.217  35.007  1.00 35.63      NS14
ATOM  46774  C   ALA N   5     218.477 114.302  34.358  1.00 68.93      NS14
ATOM  46775  O   ALA N   5     219.596 114.311  34.873  1.00 68.93      NS14
ATOM  46776  N   LEU N   6     218.232 114.766  33.135  1.00 79.24      NS14
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ATOM  46777  CA  LEU N   6     219.290 115.313  32.292  1.00 79.24      NS14
ATOM  46778  CB  LEU N   6     219.092 114.890  30.831  1.00 82.12      NS14
ATOM  46779  CG  LEU N   6     220.275 114.078  30.287  1.00 82.12      NS14
ATOM  46780  CD1 LEU N   6     219.846 113.263  29.093  1.00 82.12      NS14
ATOM  46781  CD2 LEU N   6     221.416 115.012  29.936  1.00 82.12      NS14
ATOM  46782  C   LEU N   6     219.371 116.820  32.396  1.00 79.24      NS14
ATOM  46783  O   LEU N   6     220.053 117.479  31.612  1.00 79.24      NS14
ATOM  46784  N   ILE N   7     218.650 117.366  33.362  1.00 70.54      NS14
ATOM  46785  CA  ILE N   7     218.698 118.795  33.595  1.00 70.54      NS14
ATOM  46786  CB  ILE N   7     217.317 119.379  33.880  1.00 81.41      NS14
ATOM  46787  CG2 ILE N   7     217.356 120.883  33.647  1.00 81.41      NS14
ATOM  46788  CG1 ILE N   7     216.284 118.766  32.928  1.00 81.41      NS14
ATOM  46789  CD1 ILE N   7     216.581 119.003  31.459  1.00 81.41      NS14
ATOM  46790  C   ILE N   7     219.602 118.901  34.816  1.00 70.54      NS14
ATOM  46791  O   ILE N   7     219.405 119.721  35.713  1.00 70.54      NS14
ATOM  46792  N   GLU N   8     220.586 118.001  34.819  1.00112.59      NS14
ATOM  46793  CA  GLU N   8     221.608 117.911  35.847  1.00112.59      NS14
ATOM  46794  CB  GLU N   8     222.177 116.491  35.922  1.00 88.37      NS14
ATOM  46795  CG  GLU N   8     222.991 116.076  34.694  1.00 88.37      NS14
ATOM  46796  CD  GLU N   8     223.774 114.777  34.904  1.00 88.37      NS14
ATOM  46797  OE1 GLU N   8     224.535 114.702  35.893  1.00 88.37      NS14
ATOM  46798  OE2 GLU N   8     223.638 113.837  34.083  1.00 88.37      NS14
ATOM  46799  C   GLU N   8     222.698 118.873  35.393  1.00112.59      NS14
ATOM  46800  O   GLU N   8     223.785 118.921  35.959  1.00112.59      NS14
ATOM  46801  N   LYS N   9     222.398 119.613  34.332  1.00 88.53      NS14
ATOM  46802  CA  LYS N   9     223.315 120.606  33.803  1.00 88.53      NS14
ATOM  46803  CB  LYS N   9     222.803 121.147  32.463  1.00162.59      NS14
ATOM  46804  CG  LYS N   9     223.549 122.385  31.951  1.00162.59      NS14
ATOM  46805  CD  LYS N   9     223.120 123.667  32.669  1.00162.59      NS14
ATOM  46806  CE  LYS N   9     224.015 124.848  32.307  1.00162.59      NS14
ATOM  46807  NZ  LYS N   9     225.431 124.634  32.725  1.00162.59      NS14
ATOM  46808  C   LYS N   9     223.328 121.722  34.832  1.00 88.53      NS14
ATOM  46809  O   LYS N   9     224.348 122.371  35.072  1.00 88.53      NS14
ATOM  46810  N   ALA N  10     222.163 121.947  35.424  1.00165.21      NS14
ATOM  46811  CA  ALA N  10     222.000 122.968  36.442  1.00165.21      NS14
ATOM  46812  CB  ALA N  10     220.569 122.930  36.978  1.00 35.37      NS14
ATOM  46813  C   ALA N  10     222.997 122.681  37.560  1.00165.21      NS14
ATOM  46814  O   ALA N  10     223.578 123.596  38.146  1.00165.21      NS14
ATOM  46815  N   LYS N  11     223.192 121.391  37.825  1.00 83.43      NS14
ATOM  46816  CA  LYS N  11     224.094 120.912  38.865  1.00 83.43      NS14
ATOM  46817  CB  LYS N  11     224.267 119.398  38.738  1.00 90.37      NS14
ATOM  46818  CG  LYS N  11     224.933 118.730  39.925  1.00 90.37      NS14
ATOM  46819  CD  LYS N  11     225.029 117.228  39.702  1.00 90.37      NS14
ATOM  46820  CE  LYS N  11     223.650 116.600  39.500  1.00 90.37      NS14
ATOM  46821  NZ  LYS N  11     223.723 115.142  39.172  1.00 90.37      NS14
ATOM  46822  C   LYS N  11     225.455 121.589  38.802  1.00 83.43      NS14
ATOM  46823  O   LYS N  11     226.309 121.223  37.990  1.00 83.43      NS14
ATOM  46824  N   ARG N  12     225.653 122.576  39.672  1.00200.96      NS14
ATOM  46825  CA  ARG N  12     226.910 123.310  39.724  1.00200.96      NS14
ATOM  46826  CB  ARG N  12     226.993 124.135  41.013  1.00189.31      NS14
ATOM  46827  CG  ARG N  12     227.597 125.516  40.816  1.00189.31      NS14
ATOM  46828  CD  ARG N  12     228.910 125.441  40.054  1.00189.31      NS14
ATOM  46829  NE  ARG N  12     229.358 126.755  39.604  1.00189.31      NS14
ATOM  46830  CZ  ARG N  12     230.385 126.953  38.783  1.00189.31      NS14
ATOM  46831  NH1 ARG N  12     231.076 125.921  38.318  1.00189.31      NS14
ATOM  46832  NH2 ARG N  12     230.717 128.185  38.422  1.00189.31      NS14
ATOM  46833  C   ARG N  12     228.058 122.309  39.674  1.00200.96      NS14
ATOM  46834  O   ARG N  12     228.895 122.354  38.773  1.00200.96      NS14
ATOM  46835  N   THR N  13     228.076 121.400  40.645  1.00158.52      NS14
ATOM  46836  CA  THR N  13     229.100 120.366  40.729  1.00158.52      NS14
ATOM  46837  CB  THR N  13     228.783 119.362  41.860  1.00200.96      NS14
ATOM  46838  OG1 THR N  13     228.654 120.062  43.104  1.00200.96      NS14
ATOM  46839  CG2 THR N  13     229.890 118.325  41.978  1.00200.96      NS14
ATOM  46840  C   THR N  13     229.160 119.607  39.407  1.00158.52      NS14
ATOM  46841  O   THR N  13     228.251 118.849  39.075  1.00158.52      NS14
ATOM  46842  N   PRO N  14     230.233 119.812  38.631  1.00 90.07      NS14
ATOM  46843  CD  PRO N  14     231.226 120.893  38.775  1.00 97.70      NS14
ATOM  46844  CA  PRO N  14     230.397 119.142  37.343  1.00 90.07      NS14
ATOM  46845  CB  PRO N  14     231.019 120.232  36.494  1.00 97.70      NS14
ATOM  46846  CG  PRO N  14     232.003 120.821  37.459  1.00 97.70      NS14
ATOM  46847  C   PRO N  14     231.306 117.921  37.446  1.00 90.07      NS14
ATOM  46848  O   PRO N  14     231.038 116.878  36.841  1.00 90.07      NS14
ATOM  46849  N   LYS N  15     232.376 118.087  38.223  1.00 83.67      NS14
ATOM  46850  CA  LYS N  15     233.414 117.086  38.471  1.00 83.67      NS14
ATOM  46851  CB  LYS N  15     232.973 115.686  38.033  1.00133.42      NS14
ATOM  46852  CG  LYS N  15     233.587 114.563  38.852  1.00133.42      NS14
ATOM  46853  CD  LYS N  15     232.931 113.228  38.528  1.00133.42      NS14
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ATOM  46854  CE  LYS N  15     233.350 112.137  39.510  1.00133.42      NS14
ATOM  46855  NZ  LYS N  15     234.816 111.858  39.496  1.00133.42      NS14
ATOM  46856  C   LYS N  15     234.646 117.526  37.687  1.00 83.67      NS14
ATOM  46857  O   LYS N  15     235.774 117.262  38.097  1.00 83.67      NS14
ATOM  46858  N   PHE N  16     234.405 118.212  36.565  1.00 46.23      NS14
ATOM  46859  CA  PHE N  16     235.447 118.751  35.682  1.00 46.23      NS14
ATOM  46860  CB  PHE N  16     235.939 117.689  34.699  1.00 60.50      NS14
ATOM  46861  CG  PHE N  16     236.496 116.454  35.351  1.00 60.50      NS14
ATOM  46862  CD1 PHE N  16     235.880 115.221  35.171  1.00 60.50      NS14
ATOM  46863  CD2 PHE N  16     237.645 116.515  36.126  1.00 60.50      NS14
ATOM  46864  CE1 PHE N  16     236.401 114.066  35.754  1.00 60.50      NS14
ATOM  46865  CE2 PHE N  16     238.170 115.364  36.712  1.00 60.50      NS14
ATOM  46866  CZ  PHE N  16     237.547 114.139  36.524  1.00 60.50      NS14
ATOM  46867  C   PHE N  16     234.802 119.883  34.889  1.00 46.23      NS14
ATOM  46868  O   PHE N  16     233.824 119.655  34.187  1.00 46.23      NS14
ATOM  46869  N   LYS N  17     235.338 121.094  34.985  1.00 92.04      NS14
ATOM  46870  CA  LYS N  17     234.757 122.230  34.266  1.00 92.04      NS14
ATOM  46871  CB  LYS N  17     235.731 123.414  34.235  1.00183.59      NS14
ATOM  46872  CG  LYS N  17     237.018 123.152  33.458  1.00183.59      NS14
ATOM  46873  CD  LYS N  17     237.650 124.446  32.943  1.00183.59      NS14
ATOM  46874  CE  LYS N  17     237.998 125.409  34.069  1.00183.59      NS14
ATOM  46875  NZ  LYS N  17     238.563 126.688  33.549  1.00183.59      NS14
ATOM  46876  C   LYS N  17     234.347 121.899  32.831  1.00 92.04      NS14
ATOM  46877  O   LYS N  17     233.391 122.472  32.299  1.00 92.04      NS14
ATOM  46878  N   VAL N  18     235.075 120.981  32.204  1.00132.60      NS14
ATOM  46879  CA  VAL N  18     234.790 120.591  30.829  1.00132.60      NS14
ATOM  46880  CB  VAL N  18     235.695 119.435  30.358  1.00 74.81      NS14
ATOM  46881  CG1 VAL N  18     237.109 119.926  30.203  1.00 74.81      NS14
ATOM  46882  CG2 VAL N  18     235.633 118.271  31.348  1.00 74.81      NS14
ATOM  46883  C   VAL N  18     233.360 120.139  30.649  1.00132.60      NS14
ATOM  46884  O   VAL N  18     232.622 120.680  29.828  1.00132.60      NS14
ATOM  46885  N   ARG N  19     232.982 119.142  31.436  1.00 44.75      NS14
ATOM  46886  CA  ARG N  19     231.658 118.561  31.369  1.00 44.75      NS14
ATOM  46887  CB  ARG N  19     231.518 117.493  32.447  1.00 43.49      NS14
ATOM  46888  CG  ARG N  19     232.563 116.420  32.379  1.00 43.49      NS14
ATOM  46889  CD  ARG N  19     232.177 115.267  33.273  1.00 43.49      NS14
ATOM  46890  NE  ARG N  19     233.150 114.189  33.173  1.00 43.49      NS14
ATOM  46891  CZ  ARG N  19     233.007 112.984  33.718  1.00 43.49      NS14
ATOM  46892  NH1 ARG N  19     231.919 112.670  34.421  1.00 43.49      NS14
ATOM  46893  NH2 ARG N  19     233.963 112.082  33.556  1.00 43.49      NS14
ATOM  46894  C   ARG N  19     230.480 119.523  31.466  1.00 44.75      NS14
ATOM  46895  O   ARG N  19     229.345 119.076  31.518  1.00 44.75      NS14
ATOM  46896  N   ALA N  20     230.724 120.827  31.459  1.00 67.70      NS14
ATOM  46897  CA  ALA N  20     229.627 121.783  31.584  1.00 67.70      NS14
ATOM  46898  CB  ALA N  20     230.099 122.979  32.382  1.00 68.58      NS14
ATOM  46899  C   ALA N  20     228.999 122.266  30.278  1.00 67.70      NS14
ATOM  46900  O   ALA N  20     229.637 123.011  29.532  1.00 67.70      NS14
ATOM  46901  N   TYR N  21     227.755 121.866  29.998  1.00 64.36      NS14
ATOM  46902  CA  TYR N  21     227.094 122.337  28.777  1.00 64.36      NS14
ATOM  46903  CB  TYR N  21     226.480 121.192  27.966  1.00 62.74      NS14
ATOM  46904  CG  TYR N  21     225.727 120.144  28.738  1.00 62.74      NS14
ATOM  46905  CD1 TYR N  21     226.409 119.184  29.479  1.00 62.74      NS14
ATOM  46906  CE1 TYR N  21     225.729 118.158  30.125  1.00 62.74      NS14
ATOM  46907  CD2 TYR N  21     224.330 120.063  28.664  1.00 62.74      NS14
ATOM  46908  CE2 TYR N  21     223.629 119.039  29.308  1.00 62.74      NS14
ATOM  46909  CZ  TYR N  21     224.340 118.086  30.036  1.00 62.74      NS14
ATOM  46910  OH  TYR N  21     223.685 117.043  30.660  1.00 62.74      NS14
ATOM  46911  C   TYR N  21     226.038 123.393  29.052  1.00 64.36      NS14
ATOM  46912  O   TYR N  21     225.550 123.514  30.168  1.00 64.36      NS14
ATOM  46913  N   THR N  22     225.673 124.140  28.018  1.00104.69      NS14
ATOM  46914  CA  THR N  22     224.724 125.233  28.158  1.00104.69      NS14
ATOM  46915  CB  THR N  22     224.780 126.141  26.923  1.00108.43      NS14
ATOM  46916  OG1 THR N  22     226.140 126.275  26.500  1.00108.43      NS14
ATOM  46917  CG2 THR N  22     224.234 127.527  27.253  1.00108.43      NS14
ATOM  46918  C   THR N  22     223.248 124.953  28.460  1.00104.69      NS14
ATOM  46919  O   THR N  22     222.732 125.443  29.468  1.00104.69      NS14
ATOM  46920  N   ARG N  23     222.568 124.190  27.602  1.00 66.61      NS14
ATOM  46921  CA  ARG N  23     221.132 123.908  27.774  1.00 66.61      NS14
ATOM  46922  CB  ARG N  23     220.833 123.287  29.129  1.00 58.03      NS14
ATOM  46923  CG  ARG N  23     221.237 121.849  29.266  1.00 58.03      NS14
ATOM  46924  CD  ARG N  23     220.260 120.934  28.588  1.00 58.03      NS14
ATOM  46925  NE  ARG N  23     220.611 119.552  28.871  1.00 58.03      NS14
ATOM  46926  CZ  ARG N  23     220.313 118.540  28.069  1.00 58.03      NS14
ATOM  46927  NH1 ARG N  23     219.657 118.772  26.935  1.00 58.03      NS14
ATOM  46928  NH2 ARG N  23     220.673 117.303  28.398  1.00 58.03      NS14
ATOM  46929  C   ARG N  23     220.296 125.176  27.659  1.00 66.61      NS14
ATOM  46930  O   ARG N  23     220.699 126.250  28.115  1.00 66.61      NS14
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ATOM  46931  N   CYS N  24     219.121 125.046  27.058  1.00 74.52      NS14
ATOM  46932  CA  CYS N  24     218.239 126.185  26.897  1.00 74.52      NS14
ATOM  46933  CB  CYS N  24     217.095 125.829  25.950  1.00 45.96      NS14
ATOM  46934  SG  CYS N  24     216.109 127.240  25.386  1.00 45.96      NS14
ATOM  46935  C   CYS N  24     217.695 126.564  28.271  1.00 74.52      NS14
ATOM  46936  O   CYS N  24     217.358 125.694  29.080  1.00 74.52      NS14
ATOM  46937  N   VAL N  25     217.633 127.862  28.541  1.00101.43      NS14
ATOM  46938  CA  VAL N  25     217.120 128.346  29.813  1.00101.43      NS14
ATOM  46939  CB  VAL N  25     217.735 129.719  30.175  1.00107.92      NS14
ATOM  46940  CG1 VAL N  25     217.252 130.786  29.209  1.00107.92      NS14
ATOM  46941  CG2 VAL N  25     217.375 130.092  31.590  1.00107.92      NS14
ATOM  46942  C   VAL N  25     215.607 128.488  29.683  1.00101.43      NS14
ATOM  46943  O   VAL N  25     215.011 129.434  30.195  1.00101.43      NS14
ATOM  46944  N   ARG N  26     214.990 127.540  28.986  1.00 88.66      NS14
ATOM  46945  CA  ARG N  26     213.548 127.560  28.773  1.00 88.66      NS14
ATOM  46946  CB  ARG N  26     213.189 128.660  27.788  1.00 71.52      NS14
ATOM  46947  CG  ARG N  26     211.800 128.556  27.245  1.00 71.52      NS14
ATOM  46948  CD  ARG N  26     211.235 129.932  27.116  1.00 71.52      NS14
ATOM  46949  NE  ARG N  26     210.530 130.136  25.860  1.00 71.52      NS14
ATOM  46950  CZ  ARG N  26     209.872 131.252  25.565  1.00 71.52      NS14
ATOM  46951  NH1 ARG N  26     209.839 132.244  26.449  1.00 71.52      NS14
ATOM  46952  NH2 ARG N  26     209.254 131.380  24.395  1.00 71.52      NS14
ATOM  46953  C   ARG N  26     213.025 126.232  28.258  1.00 88.66      NS14
ATOM  46954  O   ARG N  26     212.226 125.576  28.923  1.00 88.66      NS14
ATOM  46955  N   CYS N  27     213.467 125.847  27.063  1.00 48.41      NS14
ATOM  46956  CA  CYS N  27     213.052 124.585  26.466  1.00 48.41      NS14
ATOM  46957  CB  CYS N  27     213.052 124.695  24.946  1.00 39.67      NS14
ATOM  46958  SG  CYS N  27     214.714 124.840  24.276  1.00 39.67      NS14
ATOM  46959  C   CYS N  27     214.004 123.468  26.894  1.00 48.41      NS14
ATOM  46960  O   CYS N  27     213.665 122.287  26.825  1.00 48.41      NS14
ATOM  46961  N   GLY N  28     215.195 123.843  27.345  1.00 76.45      NS14
ATOM  46962  CA  GLY N  28     216.157 122.843  27.765  1.00 76.45      NS14
ATOM  46963  C   GLY N  28     216.941 122.351  26.563  1.00 76.45      NS14
ATOM  46964  O   GLY N  28     217.880 121.550  26.685  1.00 76.45      NS14
ATOM  46965  N   ARG N  29     216.542 122.841  25.392  1.00 88.43      NS14
ATOM  46966  CA  ARG N  29     217.193 122.474  24.142  1.00 88.43      NS14
ATOM  46967  CB  ARG N  29     216.706 123.366  22.993  1.00 79.00      NS14
ATOM  46968  CG  ARG N  29     217.118 122.905  21.622  1.00 79.00      NS14
ATOM  46969  CD  ARG N  29     216.396 121.630  21.246  1.00 79.00      NS14
ATOM  46970  NE  ARG N  29     216.970 121.009  20.056  1.00 79.00      NS14
ATOM  46971  CZ  ARG N  29     217.134 121.628  18.890  1.00 79.00      NS14
ATOM  46972  NH1 ARG N  29     216.769 122.896  18.744  1.00 79.00      NS14
ATOM  46973  NH2 ARG N  29     217.666 120.972  17.869  1.00 79.00      NS14
ATOM  46974  C   ARG N  29     218.666 122.709  24.363  1.00 88.43      NS14
ATOM  46975  O   ARG N  29     219.088 123.840  24.563  1.00 88.43      NS14
ATOM  46976  N   ALA N  30     219.444 121.640  24.361  1.00 63.40      NS14
ATOM  46977  CA  ALA N  30     220.881 121.772  24.548  1.00 63.40      NS14
ATOM  46978  CB  ALA N  30     221.495 120.403  24.874  1.00 64.48      NS14
ATOM  46979  C   ALA N  30     221.466 122.320  23.249  1.00 63.40      NS14
ATOM  46980  O   ALA N  30     221.749 123.510  23.109  1.00 63.40      NS14
ATOM  46981  N   ARG N  31     221.630 121.422  22.297  1.00 58.32      NS14
ATOM  46982  CA  ARG N  31     222.156 121.746  20.991  1.00 58.32      NS14
ATOM  46983  CB  ARG N  31     222.090 120.462  20.165  1.00 68.46      NS14
ATOM  46984  CG  ARG N  31     222.060 120.592  18.674  1.00 68.46      NS14
ATOM  46985  CD  ARG N  31     222.005 119.192  18.084  1.00 68.46      NS14
ATOM  46986  NE  ARG N  31     223.286 118.494  18.172  1.00 68.46      NS14
ATOM  46987  CZ  ARG N  31     223.421 117.203  18.456  1.00 68.46      NS14
ATOM  46988  NH1 ARG N  31     222.350 116.457  18.693  1.00 68.46      NS14
ATOM  46989  NH2 ARG N  31     224.630 116.652  18.487  1.00 68.46      NS14
ATOM  46990  C   ARG N  31     221.375 122.897  20.342  1.00 58.32      NS14
ATOM  46991  O   ARG N  31     220.180 122.774  20.127  1.00 58.32      NS14
ATOM  46992  N   SER N  32     222.064 124.011  20.079  1.00 48.79      NS14
ATOM  46993  CA  SER N  32     221.524 125.217  19.432  1.00 48.79      NS14
ATOM  46994  CB  SER N  32     220.122 124.974  18.875  1.00140.15      NS14
ATOM  46995  OG  SER N  32     219.177 124.883  19.927  1.00140.15      NS14
ATOM  46996  C   SER N  32     221.474 126.470  20.311  1.00 48.79      NS14
ATOM  46997  O   SER N  32     221.349 127.589  19.794  1.00 48.79      NS14
ATOM  46998  N   VAL N  33     221.567 126.291  21.628  1.00 66.70      NS14
ATOM  46999  CA  VAL N  33     221.524 127.407  22.586  1.00 66.70      NS14
ATOM  47000  CB  VAL N  33     221.740 126.918  24.014  1.00 77.99      NS14
ATOM  47001  CG1 VAL N  33     220.521 126.179  24.492  1.00 77.99      NS14
ATOM  47002  CG2 VAL N  33     222.971 126.023  24.065  1.00 77.99      NS14
ATOM  47003  C   VAL N  33     222.540 128.513  22.367  1.00 66.70      NS14
ATOM  47004  O   VAL N  33     223.693 128.245  22.056  1.00 66.70      NS14
ATOM  47005  N   TYR N  34     222.111 129.753  22.561  1.00 89.21      NS14
ATOM  47006  CA  TYR N  34     222.991 130.902  22.400  1.00 89.21      NS14
ATOM  47007  CB  TYR N  34     222.212 132.064  21.799  1.00 74.55      NS14
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ATOM  47008  CG  TYR N  34     222.027 131.956  20.304  1.00 74.55      NS14
ATOM  47009  CD1 TYR N  34     221.587 130.772  19.714  1.00 74.55      NS14
ATOM  47010  CE1 TYR N  34     221.408 130.683  18.328  1.00 74.55      NS14
ATOM  47011  CD2 TYR N  34     222.286 133.047  19.475  1.00 74.55      NS14
ATOM  47012  CE2 TYR N  34     222.114 132.972  18.095  1.00 74.55      NS14
ATOM  47013  CZ  TYR N  34     221.675 131.791  17.526  1.00 74.55      NS14
ATOM  47014  OH  TYR N  34     221.499 131.729  16.160  1.00 74.55      NS14
ATOM  47015  C   TYR N  34     223.595 131.313  23.743  1.00 89.21      NS14
ATOM  47016  O   TYR N  34     223.600 130.523  24.692  1.00 89.21      NS14
ATOM  47017  N   ARG N  35     224.115 132.538  23.822  1.00 70.52      NS14
ATOM  47018  CA  ARG N  35     224.706 133.040  25.070  1.00 70.52      NS14
ATOM  47019  CB  ARG N  35     226.201 133.284  24.890  1.00 93.05      NS14
ATOM  47020  CG  ARG N  35     227.034 132.025  24.823  1.00 93.05      NS14
ATOM  47021  CD  ARG N  35     228.513 132.372  24.748  1.00 93.05      NS14
ATOM  47022  NE  ARG N  35     229.365 131.210  24.981  1.00 93.05      NS14
ATOM  47023  CZ  ARG N  35     230.693 131.242  24.955  1.00 93.05      NS14
ATOM  47024  NH1 ARG N  35     231.327 132.382  24.701  1.00 93.05      NS14
ATOM  47025  NH2 ARG N  35     231.387 130.136  25.192  1.00 93.05      NS14
ATOM  47026  C   ARG N  35     224.038 134.335  25.533  1.00 70.52      NS14
ATOM  47027  O   ARG N  35     223.496 134.425  26.629  1.00 70.52      NS14
ATOM  47028  N   PHE N  36     224.097 135.338  24.678  1.00 47.63      NS14
ATOM  47029  CA  PHE N  36     223.509 136.633  24.940  1.00 47.63      NS14
ATOM  47030  CB  PHE N  36     223.816 137.532  23.742  1.00 69.36      NS14
ATOM  47031  CG  PHE N  36     223.524 138.987  23.952  1.00 69.36      NS14
ATOM  47032  CD1 PHE N  36     222.220 139.461  23.993  1.00 69.36      NS14
ATOM  47033  CD2 PHE N  36     224.567 139.900  24.020  1.00 69.36      NS14
ATOM  47034  CE1 PHE N  36     221.952 140.818  24.093  1.00 69.36      NS14
ATOM  47035  CE2 PHE N  36     224.317 141.266  24.119  1.00 69.36      NS14
ATOM  47036  CZ  PHE N  36     223.001 141.724  24.154  1.00 69.36      NS14
ATOM  47037  C   PHE N  36     221.999 136.452  25.106  1.00 47.63      NS14
ATOM  47038  O   PHE N  36     221.230 137.318  24.707  1.00 47.63      NS14
ATOM  47039  N   PHE N  37     221.573 135.319  25.665  1.00 70.22      NS14
ATOM  47040  CA  PHE N  37     220.149 135.042  25.888  1.00 70.22      NS14
ATOM  47041  CB  PHE N  37     219.409 134.793  24.573  1.00 38.51      NS14
ATOM  47042  CG  PHE N  37     219.109 136.031  23.814  1.00 38.51      NS14
ATOM  47043  CD1 PHE N  37     219.501 136.166  22.498  1.00 38.51      NS14
ATOM  47044  CD2 PHE N  37     218.464 137.086  24.422  1.00 38.51      NS14
ATOM  47045  CE1 PHE N  37     219.252 137.356  21.790  1.00 38.51      NS14
ATOM  47046  CE2 PHE N  37     218.209 138.286  23.724  1.00 38.51      NS14
ATOM  47047  CZ  PHE N  37     218.604 138.419  22.408  1.00 38.51      NS14
ATOM  47048  C   PHE N  37     219.924 133.846  26.788  1.00 70.22      NS14
ATOM  47049  O   PHE N  37     218.952 133.809  27.532  1.00 70.22      NS14
ATOM  47050  N   GLY N  38     220.820 132.869  26.722  1.00 58.43      NS14
ATOM  47051  CA  GLY N  38     220.662 131.680  27.541  1.00 58.43      NS14
ATOM  47052  C   GLY N  38     219.580 130.808  26.931  1.00 58.43      NS14
ATOM  47053  O   GLY N  38     219.285 129.700  27.399  1.00 58.43      NS14
ATOM  47054  N   LEU N  39     219.003 131.327  25.855  1.00 83.81      NS14
ATOM  47055  CA  LEU N  39     217.944 130.658  25.127  1.00 83.81      NS14
ATOM  47056  CB  LEU N  39     217.061 131.707  24.471  1.00 57.62      NS14
ATOM  47057  CG  LEU N  39     216.434 132.711  25.427  1.00 57.62      NS14
ATOM  47058  CD1 LEU N  39     215.596 133.749  24.664  1.00 57.62      NS14
ATOM  47059  CD2 LEU N  39     215.588 131.934  26.414  1.00 57.62      NS14
ATOM  47060  C   LEU N  39     218.482 129.728  24.048  1.00 83.81      NS14
ATOM  47061  O   LEU N  39     219.687 129.686  23.789  1.00 83.81      NS14
ATOM  47062  N   CYS N  40     217.571 128.982  23.424  1.00 79.66      NS14
ATOM  47063  CA  CYS N  40     217.918 128.077  22.336  1.00 79.66      NS14
ATOM  47064  CB  CYS N  40     217.267 126.702  22.535  1.00 36.00      NS14
ATOM  47065  SG  CYS N  40     215.520 126.635  22.127  1.00 36.00      NS14
ATOM  47066  C   CYS N  40     217.385 128.757  21.072  1.00 79.66      NS14
ATOM  47067  O   CYS N  40     216.493 129.605  21.141  1.00 79.66      NS14
ATOM  47068  N   ARG N  41     217.933 128.392  19.922  1.00 71.94      NS14
ATOM  47069  CA  ARG N  41     217.530 129.015  18.668  1.00 71.94      NS14
ATOM  47070  CB  ARG N  41     218.165 128.286  17.470  1.00 77.89      NS14
ATOM  47071  CG  ARG N  41     217.323 127.164  16.876  1.00 77.89      NS14
ATOM  47072  CD  ARG N  41     217.733 126.863  15.436  1.00 77.89      NS14
ATOM  47073  NE  ARG N  41     216.733 126.068  14.714  1.00 77.89      NS14
ATOM  47074  CZ  ARG N  41     216.501 124.772  14.919  1.00 77.89      NS14
ATOM  47075  NH1 ARG N  41     217.198 124.110  15.828  1.00 77.89      NS14
ATOM  47076  NH2 ARG N  41     215.573 124.134  14.212  1.00 77.89      NS14
ATOM  47077  C   ARG N  41     216.026 129.128  18.445  1.00 71.94      NS14
ATOM  47078  O   ARG N  41     215.563 130.128  17.888  1.00 71.94      NS14
ATOM  47079  N   ILE N  42     215.263 128.130  18.890  1.00 51.49      NS14
ATOM  47080  CA  ILE N  42     213.816 128.135  18.660  1.00 51.49      NS14
ATOM  47081  CB  ILE N  42     213.207 126.745  18.907  1.00 56.36      NS14
ATOM  47082  CG2 ILE N  42     211.802 126.691  18.314  1.00 56.36      NS14
ATOM  47083  CG1 ILE N  42     214.053 125.669  18.227  1.00 56.36      NS14
ATOM  47084  CD1 ILE N  42     213.659 124.250  18.617  1.00 56.36      NS14
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ATOM  47085  C   ILE N  42     213.009 129.150  19.471  1.00 51.49      NS14
ATOM  47086  O   ILE N  42     212.442 130.113  18.922  1.00 51.49      NS14
ATOM  47087  N   CYS N  43     212.939 128.910  20.776  1.00 65.07      NS14
ATOM  47088  CA  CYS N  43     212.216 129.791  21.686  1.00 65.07      NS14
ATOM  47089  CB  CYS N  43     212.453 129.317  23.098  1.00 41.85      NS14
ATOM  47090  SG  CYS N  43     214.188 129.029  23.264  1.00 41.85      NS14
ATOM  47091  C   CYS N  43     212.731 131.221  21.513  1.00 65.07      NS14
ATOM  47092  O   CYS N  43     211.971 132.184  21.609  1.00 65.07      NS14
ATOM  47093  N   LEU N  44     214.029 131.356  21.271  1.00 46.63      NS14
ATOM  47094  CA  LEU N  44     214.587 132.671  21.046  1.00 46.63      NS14
ATOM  47095  CB  LEU N  44     216.038 132.569  20.562  1.00 73.28      NS14
ATOM  47096  CG  LEU N  44     216.582 133.611  19.562  1.00 73.28      NS14
ATOM  47097  CD1 LEU N  44     216.231 135.046  19.935  1.00 73.28      NS14
ATOM  47098  CD2 LEU N  44     218.091 133.450  19.498  1.00 73.28      NS14
ATOM  47099  C   LEU N  44     213.723 133.345  19.984  1.00 46.63      NS14
ATOM  47100  O   LEU N  44     213.236 134.458  20.176  1.00 46.63      NS14
ATOM  47101  N   ARG N  45     213.508 132.661  18.870  1.00 61.43      NS14
ATOM  47102  CA  ARG N  45     212.700 133.242  17.811  1.00 61.43      NS14
ATOM  47103  CB  ARG N  45     212.651 132.301  16.600  1.00 60.69      NS14
ATOM  47104  CG  ARG N  45     212.281 133.004  15.284  1.00 60.69      NS14
ATOM  47105  CD  ARG N  45     212.402 132.067  14.088  1.00 60.69      NS14
ATOM  47106  NE  ARG N  45     211.160 131.359  13.772  1.00 60.69      NS14
ATOM  47107  CZ  ARG N  45     210.211 131.836  12.972  1.00 60.69      NS14
ATOM  47108  NH1 ARG N  45     210.347 133.024  12.403  1.00 60.69      NS14
ATOM  47109  NH2 ARG N  45     209.136 131.110  12.716  1.00 60.69      NS14
ATOM  47110  C   ARG N  45     211.286 133.547  18.307  1.00 61.43      NS14
ATOM  47111  O   ARG N  45     210.681 134.532  17.889  1.00 61.43      NS14
ATOM  47112  N   GLU N  46     210.764 132.713  19.205  1.00 51.81      NS14
ATOM  47113  CA  GLU N  46     209.414 132.922  19.740  1.00 51.81      NS14
ATOM  47114  CB  GLU N  46     209.043 131.765  20.684  1.00 49.71      NS14
ATOM  47115  CG  GLU N  46     209.278 130.384  20.042  1.00 49.71      NS14
ATOM  47116  CD  GLU N  46     208.831 129.199  20.902  1.00 49.71      NS14
ATOM  47117  OE1 GLU N  46     209.001 129.252  22.135  1.00 49.71      NS14
ATOM  47118  OE2 GLU N  46     208.330 128.199  20.345  1.00 49.71      NS14
ATOM  47119  C   GLU N  46     209.304 134.285  20.453  1.00 51.81      NS14
ATOM  47120  O   GLU N  46     208.620 135.197  19.958  1.00 51.81      NS14
ATOM  47121  N   LEU N  47     209.992 134.420  21.595  1.00 44.54      NS14
ATOM  47122  CA  LEU N  47     210.005 135.660  22.379  1.00 44.54      NS14
ATOM  47123  CB  LEU N  47     211.025 135.566  23.510  1.00 51.92      NS14
ATOM  47124  CG  LEU N  47     210.733 134.422  24.487  1.00 51.92      NS14
ATOM  47125  CD1 LEU N  47     211.719 134.423  25.659  1.00 51.92      NS14
ATOM  47126  CD2 LEU N  47     209.303 134.569  24.983  1.00 51.92      NS14
ATOM  47127  C   LEU N  47     210.355 136.835  21.496  1.00 44.54      NS14
ATOM  47128  O   LEU N  47     209.725 137.886  21.554  1.00 44.54      NS14
ATOM  47129  N   ALA N  48     211.374 136.652  20.674  1.00 43.25      NS14
ATOM  47130  CA  ALA N  48     211.790 137.707  19.766  1.00 43.25      NS14
ATOM  47131  CB  ALA N  48     212.782 137.158  18.744  1.00 56.31      NS14
ATOM  47132  C   ALA N  48     210.555 138.270  19.066  1.00 43.25      NS14
ATOM  47133  O   ALA N  48     210.419 139.485  18.912  1.00 43.25      NS14
ATOM  47134  N   HIS N  49     209.653 137.377  18.663  1.00 89.82      NS14
ATOM  47135  CA  HIS N  49     208.426 137.770  17.978  1.00 89.82      NS14
ATOM  47136  CB  HIS N  49     207.807 136.570  17.256  1.00105.80      NS14
ATOM  47137  CG  HIS N  49     208.540 136.162  16.014  1.00105.80      NS14
ATOM  47138  CD2 HIS N  49     208.974 134.950  15.591  1.00105.80      NS14
ATOM  47139  ND1 HIS N  49     208.869 137.055  15.017  1.00105.80      NS14
ATOM  47140  CE1 HIS N  49     209.473 136.411  14.033  1.00105.80      NS14
ATOM  47141  NE2 HIS N  49     209.549 135.133  14.357  1.00105.80      NS14
ATOM  47142  C   HIS N  49     207.395 138.387  18.919  1.00 89.82      NS14
ATOM  47143  O   HIS N  49     206.521 139.142  18.482  1.00 89.82      NS14
ATOM  47144  N   LYS N  50     207.490 138.059  20.206  1.00106.97      NS14
ATOM  47145  CA  LYS N  50     206.570 138.614  21.191  1.00106.97      NS14
ATOM  47146  CB  LYS N  50     206.497 137.734  22.439  1.00 64.04      NS14
ATOM  47147  CG  LYS N  50     206.221 136.273  22.172  1.00 64.04      NS14
ATOM  47148  CD  LYS N  50     205.455 135.629  23.327  1.00 64.04      NS14
ATOM  47149  CE  LYS N  50     204.040 136.237  23.452  1.00 64.04      NS14
ATOM  47150  NZ  LYS N  50     203.147 135.569  24.463  1.00 64.04      NS14
ATOM  47151  C   LYS N  50     207.057 140.003  21.593  1.00106.97      NS14
ATOM  47152  O   LYS N  50     206.325 140.986  21.490  1.00106.97      NS14
ATOM  47153  N   GLY N  51     208.302 140.078  22.048  1.00 93.62      NS14
ATOM  47154  CA  GLY N  51     208.864 141.351  22.458  1.00 93.62      NS14
ATOM  47155  C   GLY N  51     209.534 141.234  23.809  1.00 93.62      NS14
ATOM  47156  O   GLY N  51     210.117 142.193  24.309  1.00 93.62      NS14
ATOM  47157  N   GLN N  52     209.454 140.045  24.396  1.00 96.60      NS14
ATOM  47158  CA  GLN N  52     210.049 139.795  25.700  1.00 96.60      NS14
ATOM  47159  CB  GLN N  52     209.543 138.454  26.252  1.00 77.85      NS14
ATOM  47160  CG  GLN N  52     208.133 138.580  26.818  1.00 77.85      NS14
ATOM  47161  CD  GLN N  52     207.328 137.289  26.812  1.00 77.85      NS14
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ATOM  47162  OE1 GLN N  52     207.695 136.296  27.448  1.00 77.85      NS14
ATOM  47163  NE2 GLN N  52     206.207 137.306  26.098  1.00 77.85      NS14
ATOM  47164  C   GLN N  52     211.576 139.865  25.697  1.00 96.60      NS14
ATOM  47165  O   GLN N  52     212.218 139.602  26.716  1.00 96.60      NS14
ATOM  47166  N   LEU N  53     212.147 140.226  24.548  1.00 63.70      NS14
ATOM  47167  CA  LEU N  53     213.596 140.389  24.412  1.00 63.70      NS14
ATOM  47168  CB  LEU N  53     214.180 139.458  23.340  1.00 59.48      NS14
ATOM  47169  CG  LEU N  53     213.981 137.942  23.445  1.00 59.48      NS14
ATOM  47170  CD1 LEU N  53     215.119 137.249  22.708  1.00 59.48      NS14
ATOM  47171  CD2 LEU N  53     213.958 137.497  24.893  1.00 59.48      NS14
ATOM  47172  C   LEU N  53     213.820 141.844  23.997  1.00 63.70      NS14
ATOM  47173  O   LEU N  53     213.703 142.196  22.819  1.00 63.70      NS14
ATOM  47174  N   PRO N  54     214.149 142.709  24.969  1.00 52.52      NS14
ATOM  47175  CD  PRO N  54     214.512 142.355  26.354  1.00 76.13      NS14
ATOM  47176  CA  PRO N  54     214.381 144.135  24.711  1.00 52.52      NS14
ATOM  47177  CB  PRO N  54     214.802 144.671  26.076  1.00 76.13      NS14
ATOM  47178  CG  PRO N  54     215.441 143.476  26.734  1.00 76.13      NS14
ATOM  47179  C   PRO N  54     215.400 144.437  23.627  1.00 52.52      NS14
ATOM  47180  O   PRO N  54     216.480 143.850  23.584  1.00 52.52      NS14
ATOM  47181  N   GLY N  55     215.037 145.368  22.753  1.00 92.49      NS14
ATOM  47182  CA  GLY N  55     215.922 145.763  21.675  1.00 92.49      NS14
ATOM  47183  C   GLY N  55     216.384 144.616  20.801  1.00 92.49      NS14
ATOM  47184  O   GLY N  55     217.578 144.452  20.563  1.00 92.49      NS14
ATOM  47185  N   VAL N  56     215.431 143.819  20.329  1.00 63.03      NS14
ATOM  47186  CA  VAL N  56     215.713 142.681  19.457  1.00 63.03      NS14
ATOM  47187  CB  VAL N  56     215.535 141.335  20.209  1.00 78.11      NS14
ATOM  47188  CG1 VAL N  56     215.924 140.191  19.315  1.00 78.11      NS14
ATOM  47189  CG2 VAL N  56     216.381 141.315  21.464  1.00 78.11      NS14
ATOM  47190  C   VAL N  56     214.721 142.746  18.293  1.00 63.03      NS14
ATOM  47191  O   VAL N  56     213.784 141.960  18.213  1.00 63.03      NS14
ATOM  47192  N   ARG N  57     214.931 143.710  17.405  1.00 57.80      NS14
ATOM  47193  CA  ARG N  57     214.077 143.917  16.239  1.00 57.80      NS14
ATOM  47194  CB  ARG N  57     214.341 145.322  15.696  1.00120.05      NS14
ATOM  47195  CG  ARG N  57     213.309 145.875  14.742  1.00120.05      NS14
ATOM  47196  CD  ARG N  57     213.548 147.372  14.568  1.00120.05      NS14
ATOM  47197  NE  ARG N  57     212.557 148.033  13.720  1.00120.05      NS14
ATOM  47198  CZ  ARG N  57     212.478 149.353  13.556  1.00120.05      NS14
ATOM  47199  NH1 ARG N  57     213.332 150.151  14.184  1.00120.05      NS14
ATOM  47200  NH2 ARG N  57     211.553 149.882  12.762  1.00120.05      NS14
ATOM  47201  C   ARG N  57     214.372 142.859  15.160  1.00 57.80      NS14
ATOM  47202  O   ARG N  57     215.196 141.952  15.358  1.00 57.80      NS14
ATOM  47203  N   LYS N  58     213.677 142.943  14.032  1.00 81.52      NS14
ATOM  47204  CA  LYS N  58     213.935 142.007  12.948  1.00 81.52      NS14
ATOM  47205  CB  LYS N  58     212.654 141.631  12.194  1.00 63.43      NS14
ATOM  47206  CG  LYS N  58     211.742 140.663  12.955  1.00 63.43      NS14
ATOM  47207  CD  LYS N  58     211.152 139.552  12.062  1.00 63.43      NS14
ATOM  47208  CE  LYS N  58     210.394 140.088  10.843  1.00 63.43      NS14
ATOM  47209  NZ  LYS N  58     211.252 140.225   9.630  1.00 63.43      NS14
ATOM  47210  C   LYS N  58     214.908 142.704  12.017  1.00 81.52      NS14
ATOM  47211  O   LYS N  58     214.684 143.843  11.603  1.00 81.52      NS14
ATOM  47212  N   ALA N  59     215.995 142.007  11.703  1.00 91.44      NS14
ATOM  47213  CA  ALA N  59     217.056 142.524  10.850  1.00 91.44      NS14
ATOM  47214  CB  ALA N  59     218.328 141.774  11.156  1.00 72.36      NS14
ATOM  47215  C   ALA N  59     216.766 142.453   9.355  1.00 91.44      NS14
ATOM  47216  O   ALA N  59     216.194 141.481   8.876  1.00 91.44      NS14
ATOM  47217  N   SER N  60     217.177 143.486   8.623  1.00 98.59      NS14
ATOM  47218  CA  SER N  60     216.984 143.540   7.173  1.00 98.59      NS14
ATOM  47219  CB  SER N  60     215.538 143.919   6.838  1.00111.39      NS14
ATOM  47220  OG  SER N  60     215.248 145.247   7.234  1.00111.39      NS14
ATOM  47221  C   SER N  60     217.938 144.556   6.536  1.00 98.59      NS14
ATOM  47222  O   SER N  60     218.122 145.654   7.066  1.00 98.59      NS14
ATOM  47223  N   TRP N  61     218.545 144.193   5.405  1.00122.23      NS14
ATOM  47224  CA  TRP N  61     219.469 145.098   4.724  1.00122.23      NS14
ATOM  47225  CB  TRP N  61     220.772 145.213   5.523  1.00 46.33      NS14
ATOM  47226  CG  TRP N  61     221.588 143.959   5.672  1.00 46.33      NS14
ATOM  47227  CD2 TRP N  61     221.350 142.866   6.571  1.00 46.33      NS14
ATOM  47228  CE2 TRP N  61     222.429 141.969   6.437  1.00 46.33      NS14
ATOM  47229  CE3 TRP N  61     220.335 142.559   7.478  1.00 46.33      NS14
ATOM  47230  CD1 TRP N  61     222.762 143.680   5.045  1.00 46.33      NS14
ATOM  47231  NE1 TRP N  61     223.278 142.489   5.500  1.00 46.33      NS14
ATOM  47232  CZ2 TRP N  61     222.523 140.791   7.174  1.00 46.33      NS14
ATOM  47233  CZ3 TRP N  61     220.433 141.375   8.214  1.00 46.33      NS14
ATOM  47234  CH2 TRP N  61     221.518 140.512   8.055  1.00 46.33      NS14
ATOM  47235  C   TRP N  61     219.783 144.791   3.257  1.00122.23      NS14
ATOM  47236  O   TRP N  61     220.327 145.700   2.591  1.00122.23      NS14
ATOM  47237  OXT TRP N  61     219.494 143.667   2.784  1.00 46.33      NS14
TER   47237       TRP N  61                                             NS14
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ATOM  47238  CB  PRO O   2     153.465 110.245 -74.068  1.00 60.98      OS15
ATOM  47239  CG  PRO O   2     154.788 109.686 -74.610  1.00 60.98      OS15
ATOM  47240  C   PRO O   2     151.281 109.059 -74.085  1.00 92.81      OS15
ATOM  47241  O   PRO O   2     150.962 108.724 -75.225  1.00 92.81      OS15
ATOM  47242  N   PRO O   2     153.399 107.832 -74.289  1.00 92.81      OS15
ATOM  47243  CD  PRO O   2     154.444 108.316 -75.207  1.00 60.98      OS15
ATOM  47244  CA  PRO O   2     152.732 108.984 -73.634  1.00 92.81      OS15
ATOM  47245  N   ILE O   3     150.395 109.485 -73.196  1.00 79.64      OS15
ATOM  47246  CA  ILE O   3     149.003 109.611 -73.585  1.00 79.64      OS15
ATOM  47247  CB  ILE O   3     148.037 109.445 -72.394  1.00 66.58      OS15
ATOM  47248  CG2 ILE O   3     146.717 110.152 -72.693  1.00 66.58      OS15
ATOM  47249  CG1 ILE O   3     147.788 107.962 -72.120  1.00 66.58      OS15
ATOM  47250  CD1 ILE O   3     148.968 107.248 -71.545  1.00 66.58      OS15
ATOM  47251  C   ILE O   3     148.830 111.002 -74.161  1.00 79.64      OS15
ATOM  47252  O   ILE O   3     149.098 111.999 -73.486  1.00 79.64      OS15
ATOM  47253  N   THR O   4     148.396 111.064 -75.413  1.00 49.33      OS15
ATOM  47254  CA  THR O   4     148.185 112.343 -76.072  1.00 49.33      OS15
ATOM  47255  CB  THR O   4     148.070 112.149 -77.580  1.00 85.92      OS15
ATOM  47256  OG1 THR O   4     147.253 111.003 -77.849  1.00 85.92      OS15
ATOM  47257  CG2 THR O   4     149.449 111.937 -78.191  1.00 85.92      OS15
ATOM  47258  C   THR O   4     146.912 112.989 -75.540  1.00 49.33      OS15
ATOM  47259  O   THR O   4     146.033 112.295 -75.026  1.00 49.33      OS15
ATOM  47260  N   LYS O   5     146.820 114.313 -75.640  1.00 66.99      OS15
ATOM  47261  CA  LYS O   5     145.634 115.010 -75.165  1.00 66.99      OS15
ATOM  47262  CB  LYS O   5     145.659 116.485 -75.572  1.00108.53      OS15
ATOM  47263  CG  LYS O   5     146.754 117.272 -74.883  1.00108.53      OS15
ATOM  47264  CD  LYS O   5     146.637 118.771 -75.109  1.00108.53      OS15
ATOM  47265  CE  LYS O   5     147.714 119.504 -74.307  1.00108.53      OS15
ATOM  47266  NZ  LYS O   5     147.680 120.990 -74.441  1.00108.53      OS15
ATOM  47267  C   LYS O   5     144.441 114.316 -75.785  1.00 66.99      OS15
ATOM  47268  O   LYS O   5     143.604 113.764 -75.070  1.00 66.99      OS15
ATOM  47269  N   GLU O   6     144.381 114.323 -77.115  1.00 74.82      OS15
ATOM  47270  CA  GLU O   6     143.291 113.672 -77.833  1.00 74.82      OS15
ATOM  47271  CB  GLU O   6     143.633 113.530 -79.320  1.00189.38      OS15
ATOM  47272  CG  GLU O   6     145.112 113.660 -79.641  1.00189.38      OS15
ATOM  47273  CD  GLU O   6     145.630 115.070 -79.420  1.00189.38      OS15
ATOM  47274  OE1 GLU O   6     145.150 115.998 -80.105  1.00189.38      OS15
ATOM  47275  OE2 GLU O   6     146.514 115.252 -78.557  1.00189.38      OS15
ATOM  47276  C   GLU O   6     143.030 112.298 -77.222  1.00 74.82      OS15
ATOM  47277  O   GLU O   6     141.919 112.016 -76.760  1.00 74.82      OS15
ATOM  47278  N   GLU O   7     144.060 111.456 -77.215  1.00 56.11      OS15
ATOM  47279  CA  GLU O   7     143.961 110.113 -76.643  1.00 56.11      OS15
ATOM  47280  CB  GLU O   7     145.351 109.609 -76.244  1.00200.96      OS15
ATOM  47281  CG  GLU O   7     145.888 108.475 -77.100  1.00200.96      OS15
ATOM  47282  CD  GLU O   7     145.156 107.168 -76.862  1.00200.96      OS15
ATOM  47283  OE1 GLU O   7     143.918 107.136 -77.031  1.00200.96      OS15
ATOM  47284  OE2 GLU O   7     145.820 106.171 -76.506  1.00200.96      OS15
ATOM  47285  C   GLU O   7     143.069 110.149 -75.409  1.00 56.11      OS15
ATOM  47286  O   GLU O   7     142.079 109.424 -75.310  1.00 56.11      OS15
ATOM  47287  N   LYS O   8     143.434 111.016 -74.476  1.00 60.64      OS15
ATOM  47288  CA  LYS O   8     142.704 111.179 -73.237  1.00 60.64      OS15
ATOM  47289  CB  LYS O   8     143.408 112.230 -72.397  1.00 56.60      OS15
ATOM  47290  CG  LYS O   8     143.040 112.244 -70.944  1.00 56.60      OS15
ATOM  47291  CD  LYS O   8     143.879 113.294 -70.233  1.00 56.60      OS15
ATOM  47292  CE  LYS O   8     143.551 113.372 -68.759  1.00 56.60      OS15
ATOM  47293  NZ  LYS O   8     144.408 114.357 -68.046  1.00 56.60      OS15
ATOM  47294  C   LYS O   8     141.259 111.600 -73.511  1.00 60.64      OS15
ATOM  47295  O   LYS O   8     140.312 110.951 -73.050  1.00 60.64      OS15
ATOM  47296  N   GLN O   9     141.095 112.683 -74.268  1.00 68.94      OS15
ATOM  47297  CA  GLN O   9     139.770 113.197 -74.595  1.00 68.94      OS15
ATOM  47298  CB  GLN O   9     139.884 114.325 -75.612  1.00116.01      OS15
ATOM  47299  CG  GLN O   9     140.375 115.611 -74.991  1.00116.01      OS15
ATOM  47300  CD  GLN O   9     139.369 116.198 -74.018  1.00116.01      OS15
ATOM  47301  OE1 GLN O   9     138.730 115.474 -73.255  1.00116.01      OS15
ATOM  47302  NE2 GLN O   9     139.230 117.520 -74.035  1.00116.01      OS15
ATOM  47303  C   GLN O   9     138.825 112.123 -75.109  1.00 68.94      OS15
ATOM  47304  O   GLN O   9     137.739 111.922 -74.556  1.00 68.94      OS15
ATOM  47305  N   LYS O  10     139.237 111.427 -76.163  1.00 85.40      OS15
ATOM  47306  CA  LYS O  10     138.412 110.369 -76.729  1.00 85.40      OS15
ATOM  47307  CB  LYS O  10     139.218 109.553 -77.744  1.00175.74      OS15
ATOM  47308  CG  LYS O  10     138.541 108.261 -78.198  1.00175.74      OS15
ATOM  47309  CD  LYS O  10     137.172 108.512 -78.824  1.00175.74      OS15
ATOM  47310  CE  LYS O  10     136.505 107.204 -79.238  1.00175.74      OS15
ATOM  47311  NZ  LYS O  10     135.152 107.415 -79.824  1.00175.74      OS15
ATOM  47312  C   LYS O  10     137.905 109.459 -75.621  1.00 85.40      OS15
ATOM  47313  O   LYS O  10     136.823 108.893 -75.720  1.00 85.40      OS15
ATOM  47314  N   VAL O  11     138.691 109.342 -74.557  1.00 65.44      OS15
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ATOM  47315  CA  VAL O  11     138.347 108.489 -73.426  1.00 65.44       OS15
ATOM  47316  CB  VAL O  11     139.590 108.151 -72.610  1.00 73.49       OS15
ATOM  47317  CG1 VAL O  11     139.214 107.277 -71.437  1.00 73.49       OS15
ATOM  47318  CG2 VAL O  11     140.602 107.463 -73.491  1.00 73.49       OS15
ATOM  47319  C   VAL O  11     137.339 109.112 -72.480  1.00 65.44       OS15
ATOM  47320  O   VAL O  11     136.386 108.465 -72.054  1.00 65.44       OS15
ATOM  47321  N   ILE O  12     137.570 110.371 -72.139  1.00 62.28       OS15
ATOM  47322  CA  ILE O  12     136.683 111.075 -71.230  1.00 62.28       OS15
ATOM  47323  CB  ILE O  12     137.176 112.495 -70.987  1.00 35.55       OS15
ATOM  47324  CG2 ILE O  12     136.356 113.131 -69.910  1.00 35.55       OS15
ATOM  47325  CG1 ILE O  12     138.653 112.456 -70.587  1.00 35.55       OS15
ATOM  47326  CD1 ILE O  12     139.315 113.825 -70.454  1.00 35.55       OS15
ATOM  47327  C   ILE O  12     135.283 111.132 -71.805  1.00 62.28       OS15
ATOM  47328  O   ILE O  12     134.324 110.694 -71.177  1.00 62.28       OS15
ATOM  47329  N   GLN O  13     135.178 111.675 -73.009  1.00 80.74       OS15
ATOM  47330  CA  GLN O  13     133.898 111.790 -73.691  1.00 80.74       OS15
ATOM  47331  CB  GLN O  13     134.125 112.276 -75.120  1.00185.66       OS15
ATOM  47332  CG  GLN O  13     134.984 113.527 -75.198  1.00185.66       OS15
ATOM  47333  CD  GLN O  13     135.436 113.839 -76.608  1.00185.66       OS15
ATOM  47334  OE1 GLN O  13     136.146 114.818 -76.841  1.00185.66       OS15
ATOM  47335  NE2 GLN O  13     135.030 113.006 -77.560  1.00185.66       OS15
ATOM  47336  C   GLN O  13     133.256 110.412 -73.706  1.00 80.74       OS15
ATOM  47337  O   GLN O  13     132.070 110.253 -73.412  1.00 80.74       OS15
ATOM  47338  N   GLU O  14     134.066 109.414 -74.034  1.00 59.07       OS15
ATOM  47339  CA  GLU O  14     133.608 108.038 -74.100  1.00 59.07       OS15
ATOM  47340  CB  GLU O  14     134.777 107.108 -74.424  1.00111.98       OS15
ATOM  47341  CG  GLU O  14     134.402 105.644 -74.386  1.00111.98       OS15
ATOM  47342  CD  GLU O  14     133.215 105.335 -75.270  1.00111.98       OS15
ATOM  47343  OE1 GLU O  14     132.646 104.231 -75.135  1.00111.98       OS15
ATOM  47344  OE2 GLU O  14     132.852 106.192 -76.105  1.00111.98       OS15
ATOM  47345  C   GLU O  14     132.939 107.565 -72.824  1.00 59.07       OS15
ATOM  47346  O   GLU O  14     132.164 106.616 -72.852  1.00 59.07       OS15
ATOM  47347  N   PHE O  15     133.225 108.221 -71.704  1.00 65.21       OS15
ATOM  47348  CA  PHE O  15     132.632 107.795 -70.447  1.00 65.21       OS15
ATOM  47349  CB  PHE O  15     133.719 107.288 -69.491  1.00 51.52       OS15
ATOM  47350  CG  PHE O  15     134.312 105.969 -69.896  1.00 51.52       OS15
ATOM  47351  CD1 PHE O  15     135.242 105.892 -70.926  1.00 51.52       OS15
ATOM  47352  CD2 PHE O  15     133.890 104.795 -69.297  1.00 51.52       OS15
ATOM  47353  CE1 PHE O  15     135.733 104.665 -71.354  1.00 51.52       OS15
ATOM  47354  CE2 PHE O  15     134.378 103.559 -69.721  1.00 51.52       OS15
ATOM  47355  CZ  PHE O  15     135.296 103.496 -70.749  1.00 51.52       OS15
ATOM  47356  C   PHE O  15     131.760 108.807 -69.725  1.00 65.21       OS15
ATOM  47357  O   PHE O  15     130.791 108.423 -69.075  1.00 65.21       OS15
ATOM  47358  N   ALA O  16     132.087 110.089 -69.835  1.00 51.25       OS15
ATOM  47359  CA  ALA O  16     131.311 111.125 -69.155  1.00 51.25       OS15
ATOM  47360  CB  ALA O  16     131.509 112.459 -69.833  1.00 39.69       OS15
ATOM  47361  C   ALA O  16     129.828 110.791 -69.105  1.00 51.25       OS15
ATOM  47362  O   ALA O  16     129.206 110.476 -70.120  1.00 51.25       OS15
ATOM  47363  N   ARG O  17     129.268 110.856 -67.903  1.00 70.76       OS15
ATOM  47364  CA  ARG O  17     127.860 110.564 -67.680  1.00 70.76       OS15
ATOM  47365  CB  ARG O  17     127.554 110.632 -66.184  1.00102.57       OS15
ATOM  47366  CG  ARG O  17     128.413 109.717 -65.339  1.00102.57       OS15
ATOM  47367  CD  ARG O  17     128.092 108.257 -65.603  1.00102.57       OS15
ATOM  47368  NE  ARG O  17     126.685 107.953 -65.353  1.00102.57       OS15
ATOM  47369  CZ  ARG O  17     126.012 108.330 -64.266  1.00102.57       OS15
ATOM  47370  NH1 ARG O  17     126.611 109.039 -63.314  1.00102.57       OS15
ATOM  47371  NH2 ARG O  17     124.734 107.993 -64.128  1.00102.57       OS15
ATOM  47372  C   ARG O  17     127.004 111.577 -68.414  1.00 70.76       OS15
ATOM  47373  O   ARG O  17     125.784 111.464 -68.456  1.00 70.76       OS15
ATOM  47374  N   PHE O  18     127.655 112.567 -69.005  1.00 70.62       OS15
ATOM  47375  CA  PHE O  18     126.940 113.613 -69.707  1.00 70.62       OS15
ATOM  47376  CB  PHE O  18     125.954 114.267 -68.748  1.00 54.70       OS15
ATOM  47377  CG  PHE O  18     126.601 114.846 -67.534  1.00 54.70       OS15
ATOM  47378  CD1 PHE O  18     127.229 116.084 -67.590  1.00 54.70       OS15
ATOM  47379  CD2 PHE O  18     126.616 114.136 -66.339  1.00 54.70       OS15
ATOM  47380  CE1 PHE O  18     127.869 116.611 -66.471  1.00 54.70       OS15
ATOM  47381  CE2 PHE O  18     127.254 114.653 -65.206  1.00 54.70       OS15
ATOM  47382  CZ  PHE O  18     127.882 115.893 -65.274  1.00 54.70       OS15
ATOM  47383  C   PHE O  18     127.934 114.648 -70.195  1.00 70.62       OS15
ATOM  47384  O   PHE O  18     129.057 114.723 -69.699  1.00 70.62       OS15
ATOM  47385  N   PRO O  19     127.530 115.474 -71.165  1.00 97.94       OS15
ATOM  47386  CD  PRO O  19     126.219 115.526 -71.834  1.00 97.93       OS15
ATOM  47387  CA  PRO O  19     128.425 116.501 -71.694  1.00 97.94       OS15
ATOM  47388  CB  PRO O  19     127.482 117.380 -72.501  1.00 97.93       OS15
ATOM  47389  CG  PRO O  19     126.510 116.384 -73.043  1.00 97.93       OS15
ATOM  47390  C   PRO O  19     129.142 117.273 -70.590  1.00 97.94       OS15
ATOM  47391  O   PRO O  19     128.511 117.751 -69.646  1.00 97.94       OS15
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ATOM  47392  N   GLY O  20     130.464 117.376 -70.708  1.00 77.32      OS15
ATOM  47393  CA  GLY O  20     131.244 118.106 -69.723  1.00 77.32      OS15
ATOM  47394  C   GLY O  20     131.657 117.300 -68.508  1.00 77.32      OS15
ATOM  47395  O   GLY O  20     132.500 117.732 -67.719  1.00 77.32      OS15
ATOM  47396  N   ASP O  21     131.061 116.128 -68.346  1.00 67.52      OS15
ATOM  47397  CA  ASP O  21     131.391 115.284 -67.214  1.00 67.52      OS15
ATOM  47398  CB  ASP O  21     130.463 114.078 -67.161  1.00 72.35      OS15
ATOM  47399  CG  ASP O  21     130.810 113.142 -66.031  1.00 72.35      OS15
ATOM  47400  OD1 ASP O  21     130.279 112.015 -66.005  1.00 72.35      OS15
ATOM  47401  OD2 ASP O  21     131.617 113.538 -65.162  1.00 72.35      OS15
ATOM  47402  C   ASP O  21     132.841 114.801 -67.291  1.00 67.52      OS15
ATOM  47403  O   ASP O  21     133.155 113.842 -67.998  1.00 67.52      OS15
ATOM  47404  N   THR O  22     133.723 115.463 -66.552  1.00 64.93      OS15
ATOM  47405  CA  THR O  22     135.127 115.089 -66.552  1.00 64.93      OS15
ATOM  47406  CB  THR O  22     136.040 116.315 -66.763  1.00 42.36      OS15
ATOM  47407  OG1 THR O  22     135.865 117.255 -65.693  1.00 42.36      OS15
ATOM  47408  CG2 THR O  22     135.704 116.987 -68.067  1.00 42.36      OS15
ATOM  47409  C   THR O  22     135.525 114.416 -65.258  1.00 64.93      OS15
ATOM  47410  O   THR O  22     136.320 113.481 -65.263  1.00 64.93      OS15
ATOM  47411  N   GLY O  23     134.957 114.882 -64.151  1.00 51.63      OS15
ATOM  47412  CA  GLY O  23     135.304 114.318 -62.859  1.00 51.63      OS15
ATOM  47413  C   GLY O  23     134.390 113.261 -62.265  1.00 51.63      OS15
ATOM  47414  O   GLY O  23     134.404 113.046 -61.056  1.00 51.63      OS15
ATOM  47415  N   SER O  24     133.594 112.595 -63.089  1.00 54.04      OS15
ATOM  47416  CA  SER O  24     132.717 111.573 -62.550  1.00 54.04      OS15
ATOM  47417  CB  SER O  24     131.590 111.229 -63.524  1.00 41.49      OS15
ATOM  47418  OG  SER O  24     132.043 110.354 -64.541  1.00 41.49      OS15
ATOM  47419  C   SER O  24     133.547 110.332 -62.275  1.00 54.04      OS15
ATOM  47420  O   SER O  24     134.629 110.150 -62.835  1.00 54.04      OS15
ATOM  47421  N   THR O  25     133.019 109.482 -61.405  1.00 45.47      OS15
ATOM  47422  CA  THR O  25     133.685 108.258 -61.019  1.00 45.47      OS15
ATOM  47423  CB  THR O  25     132.889 107.555 -59.917  1.00 41.94      OS15
ATOM  47424  OG1 THR O  25     133.001 108.318 -58.704  1.00 41.94      OS15
ATOM  47425  CG2 THR O  25     133.402 106.138 -59.697  1.00 41.94      OS15
ATOM  47426  C   THR O  25     133.935 107.308 -62.173  1.00 45.47      OS15
ATOM  47427  O   THR O  25     134.863 106.521 -62.119  1.00 45.47      OS15
ATOM  47428  N   GLU O  26     133.126 107.363 -63.223  1.00 51.69      OS15
ATOM  47429  CA  GLU O  26     133.368 106.466 -64.342  1.00 51.69      OS15
ATOM  47430  CB  GLU O  26     132.138 106.322 -65.231  1.00 66.36      OS15
ATOM  47431  CG  GLU O  26     130.987 105.576 -64.595  1.00 66.36      OS15
ATOM  47432  CD  GLU O  26     130.167 106.444 -63.654  1.00 66.36      OS15
ATOM  47433  OE1 GLU O  26     129.213 105.916 -63.037  1.00 66.36      OS15
ATOM  47434  OE2 GLU O  26     130.473 107.652 -63.534  1.00 66.36      OS15
ATOM  47435  C   GLU O  26     134.517 107.022 -65.158  1.00 51.69      OS15
ATOM  47436  O   GLU O  26     135.422 106.282 -65.546  1.00 51.69      OS15
ATOM  47437  N   VAL O  27     134.486 108.330 -65.408  1.00 42.00      OS15
ATOM  47438  CA  VAL O  27     135.538 108.973 -66.184  1.00 42.00      OS15
ATOM  47439  CB  VAL O  27     135.376 110.496 -66.213  1.00 34.27      OS15
ATOM  47440  CG1 VAL O  27     136.400 111.104 -67.149  1.00 34.27      OS15
ATOM  47441  CG2 VAL O  27     133.980 110.861 -66.650  1.00 34.27      OS15
ATOM  47442  C   VAL O  27     136.870 108.655 -65.526  1.00 42.00      OS15
ATOM  47443  O   VAL O  27     137.828 108.250 -66.191  1.00 42.00      OS15
ATOM  47444  N   GLN O  28     136.921 108.842 -64.209  1.00 51.45      OS15
ATOM  47445  CA  GLN O  28     138.128 108.569 -63.450  1.00 51.45      OS15
ATOM  47446  CB  GLN O  28     137.900 108.871 -61.975  1.00 50.25      OS15
ATOM  47447  CG  GLN O  28     138.074 110.334 -61.651  1.00 50.25      OS15
ATOM  47448  CD  GLN O  28     137.510 110.714 -60.302  1.00 50.25      OS15
ATOM  47449  OE1 GLN O  28     137.958 110.244 -59.251  1.00 50.25      OS15
ATOM  47450  NE2 GLN O  28     136.505 111.574 -60.324  1.00 50.25      OS15
ATOM  47451  C   GLN O  28     138.557 107.130 -63.635  1.00 51.45      OS15
ATOM  47452  O   GLN O  28     139.622 106.863 -64.198  1.00 51.45      OS15
ATOM  47453  N   VAL O  29     137.728 106.195 -63.188  1.00 24.18      OS15
ATOM  47454  CA  VAL O  29     138.099 104.812 -63.334  1.00 24.18      OS15
ATOM  47455  CB  VAL O  29     136.988 103.860 -62.951  1.00 29.55      OS15
ATOM  47456  CG1 VAL O  29     137.436 102.424 -63.210  1.00 29.55      OS15
ATOM  47457  CG2 VAL O  29     136.675 104.023 -61.489  1.00 29.55      OS15
ATOM  47458  C   VAL O  29     138.465 104.566 -64.767  1.00 24.18      OS15
ATOM  47459  O   VAL O  29     139.306 103.724 -65.058  1.00 24.18      OS15
ATOM  47460  N   ALA O  30     137.845 105.301 -65.678  1.00 50.70      OS15
ATOM  47461  CA  ALA O  30     138.159 105.115 -67.091  1.00 50.70      OS15
ATOM  47462  CB  ALA O  30     137.198 105.921 -67.959  1.00 78.42      OS15
ATOM  47463  C   ALA O  30     139.592 105.560 -67.336  1.00 50.70      OS15
ATOM  47464  O   ALA O  30     140.452 104.765 -67.718  1.00 50.70      OS15
ATOM  47465  N   LEU O  31     139.844 106.838 -67.092  1.00 56.77      OS15
ATOM  47466  CA  LEU O  31     141.167 107.397 -67.288  1.00 56.77      OS15
ATOM  47467  CB  LEU O  31     141.197 108.835 -66.779  1.00 37.96      OS15
ATOM  47468  CG  LEU O  31     141.063 109.937 -67.836  1.00 37.96      OS15
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ATOM  47469  CD1 LEU O  31     140.151 109.504 -68.962  1.00 37.96       OS15
ATOM  47470  CD2 LEU O  31     140.540 111.201 -67.169  1.00 37.96       OS15
ATOM  47471  C   LEU O  31     142.256 106.569 -66.619  1.00 56.77       OS15
ATOM  47472  O   LEU O  31     143.197 106.139 -67.289  1.00 56.77       OS15
ATOM  47473  N   LEU O  32     142.131 106.339 -65.311  1.00 59.10       OS15
ATOM  47474  CA  LEU O  32     143.128 105.550 -64.587  1.00 59.10       OS15
ATOM  47475  CB  LEU O  32     142.648 105.186 -63.184  1.00 38.90       OS15
ATOM  47476  CG  LEU O  32     142.919 106.150 -62.026  1.00 38.90       OS15
ATOM  47477  CD1 LEU O  32     142.482 105.488 -60.728  1.00 38.90       OS15
ATOM  47478  CD2 LEU O  32     144.394 106.496 -61.947  1.00 38.90       OS15
ATOM  47479  C   LEU O  32     143.447 104.262 -65.314  1.00 59.10       OS15
ATOM  47480  O   LEU O  32     144.608 103.912 -65.520  1.00 59.10       OS15
ATOM  47481  N   THR O  33     142.404 103.547 -65.698  1.00 40.60       OS15
ATOM  47482  CA  THR O  33     142.594 102.297 -66.389  1.00 40.60       OS15
ATOM  47483  CB  THR O  33     141.286 101.713 -66.813  1.00 39.51       OS15
ATOM  47484  OG1 THR O  33     140.520 101.394 -65.646  1.00 39.51       OS15
ATOM  47485  CG2 THR O  33     141.523 100.463 -67.614  1.00 39.51       OS15
ATOM  47486  C   THR O  33     143.451 102.461 -67.611  1.00 40.60       OS15
ATOM  47487  O   THR O  33     144.139 101.531 -68.010  1.00 40.60       OS15
ATOM  47488  N   LEU O  34     143.410 103.639 -68.221  1.00 53.11       OS15
ATOM  47489  CA  LEU O  34     144.229 103.881 -69.405  1.00 53.11       OS15
ATOM  47490  CB  LEU O  34     143.914 105.253 -69.996  1.00 59.67       OS15
ATOM  47491  CG  LEU O  34     144.095 105.416 -71.507  1.00 59.67       OS15
ATOM  47492  CD1 LEU O  34     144.171 106.903 -71.820  1.00 59.67       OS15
ATOM  47493  CD2 LEU O  34     145.351 104.713 -71.984  1.00 59.67       OS15
ATOM  47494  C   LEU O  34     145.703 103.828 -68.988  1.00 53.11       OS15
ATOM  47495  O   LEU O  34     146.484 103.033 -69.507  1.00 53.11       OS15
ATOM  47496  N   ARG O  35     146.058 104.685 -68.035  1.00 43.81       OS15
ATOM  47497  CA  ARG O  35     147.409 104.771 -67.511  1.00 43.81       OS15
ATOM  47498  CB  ARG O  35     147.457 105.743 -66.336  1.00 53.91       OS15
ATOM  47499  CG  ARG O  35     146.962 107.149 -66.622  1.00 53.91       OS15
ATOM  47500  CD  ARG O  35     147.306 108.056 -65.458  1.00 53.91       OS15
ATOM  47501  NE  ARG O  35     148.735 107.987 -65.178  1.00 53.91       OS15
ATOM  47502  CZ  ARG O  35     149.293 108.335 -64.023  1.00 53.91       OS15
ATOM  47503  NH1 ARG O  35     148.536 108.784 -63.033  1.00 53.91       OS15
ATOM  47504  NH2 ARG O  35     150.606 108.213 -63.848  1.00 53.91       OS15
ATOM  47505  C   ARG O  35     147.914 103.417 -67.042  1.00 43.81       OS15
ATOM  47506  O   ARG O  35     149.038 103.040 -67.352  1.00 43.81       OS15
ATOM  47507  N   ILE O  36     147.098 102.696 -66.278  1.00 32.49       OS15
ATOM  47508  CA  ILE O  36     147.495 101.379 -65.783  1.00 32.49       OS15
ATOM  47509  CB  ILE O  36     146.347 100.684 -65.034  1.00 38.03       OS15
ATOM  47510  CG2 ILE O  36     146.727  99.235 -64.736  1.00 38.03       OS15
ATOM  47511  CG1 ILE O  36     146.029 101.439 -63.748  1.00 38.03       OS15
ATOM  47512  CD1 ILE O  36     145.009 100.735 -62.880  1.00 38.03       OS15
ATOM  47513  C   ILE O  36     147.960 100.426 -66.893  1.00 32.49       OS15
ATOM  47514  O   ILE O  36     149.079  99.913 -66.863  1.00 32.49       OS15
ATOM  47515  N   ASN O  37     147.092 100.169 -67.862  1.00 45.73       OS15
ATOM  47516  CA  ASN O  37     147.453  99.288 -68.949  1.00 45.73       OS15
ATOM  47517  CB  ASN O  37     146.280  99.131 -69.913  1.00 89.89       OS15
ATOM  47518  CG  ASN O  37     145.079  98.468 -69.262  1.00 89.89       OS15
ATOM  47519  OD1 ASN O  37     144.316  99.108 -68.547  1.00 89.89       OS15
ATOM  47520  ND2 ASN O  37     144.918  97.171 -69.499  1.00 89.89       OS15
ATOM  47521  C   ASN O  37     148.675  99.853 -69.663  1.00 45.73       OS15
ATOM  47522  O   ASN O  37     149.544  99.103 -70.085  1.00 45.73       OS15
ATOM  47523  N   ARG O  38     148.753 101.173 -69.788  1.00 43.86       OS15
ATOM  47524  CA  ARG O  38     149.903 101.798 -70.443  1.00 43.86       OS15
ATOM  47525  CB  ARG O  38     149.699 103.310 -70.598  1.00115.49       OS15
ATOM  47526  CG  ARG O  38     148.676 103.729 -71.636  1.00115.49       OS15
ATOM  47527  CD  ARG O  38     148.985 103.141 -73.004  1.00115.49       OS15
ATOM  47528  NE  ARG O  38     148.463 103.971 -74.087  1.00115.49       OS15
ATOM  47529  CZ  ARG O  38     149.021 105.110 -74.489  1.00115.49       OS15
ATOM  47530  NH1 ARG O  38     150.125 105.557 -73.901  1.00115.49       OS15
ATOM  47531  NH2 ARG O  38     148.476 105.804 -75.477  1.00115.49       OS15
ATOM  47532  C   ARG O  38     151.168 101.563 -69.621  1.00 43.86       OS15
ATOM  47533  O   ARG O  38     152.257 101.373 -70.162  1.00 43.86       OS15
ATOM  47534  N   LEU O  39     151.014 101.581 -68.305  1.00 43.87       OS15
ATOM  47535  CA  LEU O  39     152.139 101.382 -67.405  1.00 43.87       OS15
ATOM  47536  CB  LEU O  39     151.752 101.761 -65.978  1.00 59.61       OS15
ATOM  47537  CG  LEU O  39     152.784 102.600 -65.231  1.00 59.61       OS15
ATOM  47538  CD1 LEU O  39     152.475 102.530 -63.755  1.00 59.61       OS15
ATOM  47539  CD2 LEU O  39     154.192 102.088 -65.514  1.00 59.61       OS15
ATOM  47540  C   LEU O  39     152.601  99.944 -67.412  1.00 43.87       OS15
ATOM  47541  O   LEU O  39     153.795  99.673 -67.415  1.00 43.87       OS15
ATOM  47542  N   SER O  40     151.641  99.030 -67.397  1.00 55.14       OS15
ATOM  47543  CA  SER O  40     151.947  97.615 -67.389  1.00 55.14       OS15
ATOM  47544  CB  SER O  40     150.666  96.801 -67.390  1.00 83.53       OS15
ATOM  47545  OG  SER O  40     149.932  97.068 -66.215  1.00 83.53       OS15
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ATOM  47546  C   SER O  40     152.802  97.222 -68.574  1.00 55.14      OS15
ATOM  47547  O   SER O  40     153.767  96.470 -68.419  1.00 55.14      OS15
ATOM  47548  N   GLU O  41     152.457  97.736 -69.753  1.00 65.46      OS15
ATOM  47549  CA  GLU O  41     153.206  97.424 -70.963  1.00 65.46      OS15
ATOM  47550  CB  GLU O  41     152.570  98.127 -72.163  1.00135.83      OS15
ATOM  47551  CG  GLU O  41     152.440  97.237 -73.389  1.00135.83      OS15
ATOM  47552  CD  GLU O  41     151.553  96.025 -73.146  1.00135.83      OS15
ATOM  47553  OE1 GLU O  41     151.527  95.126 -74.014  1.00135.83      OS15
ATOM  47554  OE2 GLU O  41     150.880  95.973 -72.094  1.00135.83      OS15
ATOM  47555  C   GLU O  41     154.663  97.862 -70.789  1.00 65.46      OS15
ATOM  47556  O   GLU O  41     155.602  97.128 -71.105  1.00 65.46      OS15
ATOM  47557  N   HIS O  42     154.836  99.070 -70.273  1.00 45.39      OS15
ATOM  47558  CA  HIS O  42     156.153  99.631 -70.018  1.00 45.39      OS15
ATOM  47559  CB  HIS O  42     155.996 101.032 -69.430  1.00 54.38      OS15
ATOM  47560  CG  HIS O  42     157.214 101.535 -68.728  1.00 54.38      OS15
ATOM  47561  CD2 HIS O  42     157.405 101.923 -67.447  1.00 54.38      OS15
ATOM  47562  ND1 HIS O  42     158.426 101.697 -69.363  1.00 54.38      OS15
ATOM  47563  CE1 HIS O  42     159.312 102.167 -68.504  1.00 54.38      OS15
ATOM  47564  NE2 HIS O  42     158.718 102.313 -67.333  1.00 54.38      OS15
ATOM  47565  C   HIS O  42     156.929  98.771 -69.034  1.00 45.39      OS15
ATOM  47566  O   HIS O  42     158.146  98.693 -69.094  1.00 45.39      OS15
ATOM  47567  N   LEU O  43     156.216  98.125 -68.125  1.00 45.45      OS15
ATOM  47568  CA  LEU O  43     156.854  97.316 -67.110  1.00 45.45      OS15
ATOM  47569  CB  LEU O  43     155.992  97.311 -65.852  1.00 57.47      OS15
ATOM  47570  CG  LEU O  43     155.769  98.701 -65.252  1.00 57.47      OS15
ATOM  47571  CD1 LEU O  43     154.872  98.593 -64.032  1.00 57.47      OS15
ATOM  47572  CD2 LEU O  43     157.114  99.325 -64.882  1.00 57.47      OS15
ATOM  47573  C   LEU O  43     157.165  95.895 -67.529  1.00 45.45      OS15
ATOM  47574  O   LEU O  43     157.901  95.192 -66.836  1.00 45.45      OS15
ATOM  47575  N   LYS O  44     156.600  95.460 -68.651  1.00 54.60      OS15
ATOM  47576  CA  LYS O  44     156.855  94.107 -69.140  1.00 54.60      OS15
ATOM  47577  CB  LYS O  44     155.862  93.723 -70.238  1.00178.09      OS15
ATOM  47578  CG  LYS O  44     154.426  93.578 -69.775  1.00178.09      OS15
ATOM  47579  CD  LYS O  44     153.536  93.119 -70.918  1.00178.09      OS15
ATOM  47580  CE  LYS O  44     152.104  92.917 -70.456  1.00178.09      OS15
ATOM  47581  NZ  LYS O  44     151.244  92.417 -71.561  1.00178.09      OS15
ATOM  47582  C   LYS O  44     158.252  94.134 -69.715  1.00 54.60      OS15
ATOM  47583  O   LYS O  44     158.998  93.162 -69.642  1.00 54.60      OS15
ATOM  47584  N   VAL O  45     158.586  95.274 -70.298  1.00 50.35      OS15
ATOM  47585  CA  VAL O  45     159.887  95.472 -70.889  1.00 50.35      OS15
ATOM  47586  CB  VAL O  45     159.887  96.692 -71.807  1.00 52.06      OS15
ATOM  47587  CG1 VAL O  45     161.255  96.877 -72.428  1.00 52.06      OS15
ATOM  47588  CG2 VAL O  45     158.825  96.530 -72.864  1.00 52.06      OS15
ATOM  47589  C   VAL O  45     160.875  95.718 -69.764  1.00 50.35      OS15
ATOM  47590  O   VAL O  45     161.757  94.895 -69.508  1.00 50.35      OS15
ATOM  47591  N   HIS O  46     160.712  96.856 -69.094  1.00 32.74      OS15
ATOM  47592  CA  HIS O  46     161.584  97.225 -67.998  1.00 32.74      OS15
ATOM  47593  CB  HIS O  46     161.653  98.736 -67.890  1.00 55.76      OS15
ATOM  47594  CG  HIS O  46     161.903  99.403 -69.200  1.00 55.76      OS15
ATOM  47595  CD2 HIS O  46     163.044  99.863 -69.767  1.00 55.76      OS15
ATOM  47596  ND1 HIS O  46     160.906  99.604 -70.128  1.00 55.76      OS15
ATOM  47597  CE1 HIS O  46     161.422 100.159 -71.211  1.00 55.76      OS15
ATOM  47598  NE2 HIS O  46     162.719 100.326 -71.017  1.00 55.76      OS15
ATOM  47599  C   HIS O  46     161.113  96.620 -66.689  1.00 32.74      OS15
ATOM  47600  O   HIS O  46     160.526  97.302 -65.848  1.00 32.74      OS15
ATOM  47601  N   LYS O  47     161.383  95.328 -66.527  1.00 47.27      OS15
ATOM  47602  CA  LYS O  47     161.007  94.606 -65.328  1.00 47.27      OS15
ATOM  47603  CB  LYS O  47     161.347  93.127 -65.478  1.00 68.76      OS15
ATOM  47604  CG  LYS O  47     160.980  92.535 -66.815  1.00 68.76      OS15
ATOM  47605  CD  LYS O  47     161.326  91.053 -66.869  1.00 68.76      OS15
ATOM  47606  CE  LYS O  47     161.217  90.490 -68.294  1.00 68.76      OS15
ATOM  47607  NZ  LYS O  47     162.229  91.057 -69.253  1.00 68.76      OS15
ATOM  47608  C   LYS O  47     161.762  95.176 -64.130  1.00 47.27      OS15
ATOM  47609  O   LYS O  47     161.352  94.990 -62.983  1.00 47.27      OS15
ATOM  47610  N   LYS O  48     162.864  95.873 -64.387  1.00 46.30      OS15
ATOM  47611  CA  LYS O  48     163.646  96.432 -63.299  1.00 46.30      OS15
ATOM  47612  CB  LYS O  48     165.142  96.275 -63.574  1.00133.63      OS15
ATOM  47613  CG  LYS O  48     165.672  94.860 -63.387  1.00133.63      OS15
ATOM  47614  CD  LYS O  48     167.200  94.846 -63.316  1.00133.63      OS15
ATOM  47615  CE  LYS O  48     167.845  95.479 -64.555  1.00133.63      OS15
ATOM  47616  NZ  LYS O  48     169.339  95.533 -64.480  1.00133.63      OS15
ATOM  47617  C   LYS O  48     163.356  97.885 -62.954  1.00 46.30      OS15
ATOM  47618  O   LYS O  48     164.011  98.444 -62.083  1.00 46.30      OS15
ATOM  47619  N   ASP O  49     162.386  98.510 -63.611  1.00 37.87      OS15
ATOM  47620  CA  ASP O  49     162.085  99.907 -63.297  1.00 37.87      OS15
ATOM  47621  CB  ASP O  49     161.437 100.598 -64.492  1.00 59.05      OS15
ATOM  47622  CG  ASP O  49     161.086 102.041 -64.203  1.00 59.05      OS15
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ATOM  47623  OD1 ASP O  49     161.123 102.440 -63.019  1.00 59.05       OS15
ATOM  47624  OD2 ASP O  49     160.763 102.778 -65.157  1.00 59.05       OS15
ATOM  47625  C   ASP O  49     161.123  99.920 -62.123  1.00 37.87       OS15
ATOM  47626  O   ASP O  49     159.920  99.986 -62.319  1.00 37.87       OS15
ATOM  47627  N   HIS O  50     161.640  99.882 -60.901  1.00 46.60       OS15
ATOM  47628  CA  HIS O  50     160.763  99.825 -59.738  1.00 46.60       OS15
ATOM  47629  CB  HIS O  50     161.515  99.251 -58.550  1.00 40.31       OS15
ATOM  47630  CG  HIS O  50     162.188  97.951 -58.840  1.00 40.31       OS15
ATOM  47631  CD2 HIS O  50     163.473  97.559 -58.682  1.00 40.31       OS15
ATOM  47632  ND1 HIS O  50     161.512  96.860 -59.332  1.00 40.31       OS15
ATOM  47633  CE1 HIS O  50     162.351  95.848 -59.463  1.00 40.31       OS15
ATOM  47634  NE2 HIS O  50     163.548  96.247 -59.074  1.00 40.31       OS15
ATOM  47635  C   HIS O  50     160.090 101.110 -59.312  1.00 46.60       OS15
ATOM  47636  O   HIS O  50     158.921 101.109 -58.950  1.00 46.60       OS15
ATOM  47637  N   HIS O  51     160.808 102.215 -59.334  1.00 51.63       OS15
ATOM  47638  CA  HIS O  51     160.181 103.447 -58.919  1.00 51.63       OS15
ATOM  47639  CB  HIS O  51     161.165 104.600 -59.094  1.00 50.59       OS15
ATOM  47640  CG  HIS O  51     162.436 104.395 -58.337  1.00 50.59       OS15
ATOM  47641  CD2 HIS O  51     162.924 105.000 -57.230  1.00 50.59       OS15
ATOM  47642  ND1 HIS O  51     163.302 103.363 -58.621  1.00 50.59       OS15
ATOM  47643  CE1 HIS O  51     164.261 103.334 -57.713  1.00 50.59       OS15
ATOM  47644  NE2 HIS O  51     164.055 104.316 -56.857  1.00 50.59       OS15
ATOM  47645  C   HIS O  51     158.881 103.672 -59.693  1.00 51.63       OS15
ATOM  47646  O   HIS O  51     157.910 104.189 -59.139  1.00 51.63       OS15
ATOM  47647  N   SER O  52     158.849 103.262 -60.960  1.00 38.11       OS15
ATOM  47648  CA  SER O  52     157.649 103.413 -61.772  1.00 38.11       OS15
ATOM  47649  CB  SER O  52     157.926 103.058 -63.231  1.00 49.92       OS15
ATOM  47650  OG  SER O  52     158.918 103.902 -63.779  1.00 49.92       OS15
ATOM  47651  C   SER O  52     156.586 102.473 -61.238  1.00 38.11       OS15
ATOM  47652  O   SER O  52     155.425 102.845 -61.089  1.00 38.11       OS15
ATOM  47653  N   HIS O  53     156.987 101.244 -60.944  1.00 27.86       OS15
ATOM  47654  CA  HIS O  53     156.056 100.248 -60.441  1.00 27.86       OS15
ATOM  47655  CB  HIS O  53     156.756  98.903 -60.316  1.00 43.12       OS15
ATOM  47656  CG  HIS O  53     155.947  97.864 -59.610  1.00 43.12       OS15
ATOM  47657  CD2 HIS O  53     155.374  96.724 -60.060  1.00 43.12       OS15
ATOM  47658  ND1 HIS O  53     155.707  97.907 -58.254  1.00 43.12       OS15
ATOM  47659  CE1 HIS O  53     155.028  96.832 -57.898  1.00 43.12       OS15
ATOM  47660  NE2 HIS O  53     154.814  96.097 -58.974  1.00 43.12       OS15
ATOM  47661  C   HIS O  53     155.424 100.651 -59.118  1.00 27.86       OS15
ATOM  47662  O   HIS O  53     154.324 100.214 -58.798  1.00 27.86       OS15
ATOM  47663  N   ARG O  54     156.110 101.477 -58.339  1.00 34.85       OS15
ATOM  47664  CA  ARG O  54     155.509 101.931 -57.090  1.00 34.85       OS15
ATOM  47665  CB  ARG O  54     156.515 102.691 -56.232  1.00 50.60       OS15
ATOM  47666  CG  ARG O  54     155.978 103.098 -54.876  1.00 50.60       OS15
ATOM  47667  CD  ARG O  54     156.142 104.584 -54.697  1.00 50.60       OS15
ATOM  47668  NE  ARG O  54     155.574 105.086 -53.451  1.00 50.60       OS15
ATOM  47669  CZ  ARG O  54     155.463 106.382 -53.172  1.00 50.60       OS15
ATOM  47670  NH1 ARG O  54     155.883 107.286 -54.047  1.00 50.60       OS15
ATOM  47671  NH2 ARG O  54     154.926 106.785 -52.028  1.00 50.60       OS15
ATOM  47672  C   ARG O  54     154.393 102.869 -57.538  1.00 34.85       OS15
ATOM  47673  O   ARG O  54     153.333 102.956 -56.931  1.00 34.85       OS15
ATOM  47674  N   GLY O  55     154.651 103.564 -58.631  1.00 53.73       OS15
ATOM  47675  CA  GLY O  55     153.654 104.460 -59.162  1.00 53.73       OS15
ATOM  47676  C   GLY O  55     152.470 103.639 -59.621  1.00 53.73       OS15
ATOM  47677  O   GLY O  55     151.326 104.074 -59.500  1.00 53.73       OS15
ATOM  47678  N   LEU O  56     152.731 102.450 -60.151  1.00 33.86       OS15
ATOM  47679  CA  LEU O  56     151.637 101.616 -60.610  1.00 33.86       OS15
ATOM  47680  CB  LEU O  56     152.163 100.363 -61.295  1.00 34.69       OS15
ATOM  47681  CG  LEU O  56     151.037  99.386 -61.630  1.00 34.69       OS15
ATOM  47682  CD1 LEU O  56     150.105 100.060 -62.594  1.00 34.69       OS15
ATOM  47683  CD2 LEU O  56     151.573  98.117 -62.238  1.00 34.69       OS15
ATOM  47684  C   LEU O  56     150.769 101.226 -59.421  1.00 33.86       OS15
ATOM  47685  O   LEU O  56     149.585 101.538 -59.377  1.00 33.86       OS15
ATOM  47686  N   LEU O  57     151.376 100.549 -58.455  1.00 60.98       OS15
ATOM  47687  CA  LEU O  57     150.683 100.113 -57.247  1.00 60.98       OS15
ATOM  47688  CB  LEU O  57     151.702  99.853 -56.140  1.00 40.89       OS15
ATOM  47689  CG  LEU O  57     151.894  98.401 -55.736  1.00 40.89       OS15
ATOM  47690  CD1 LEU O  57     151.822  97.504 -56.932  1.00 40.89       OS15
ATOM  47691  CD2 LEU O  57     153.221  98.262 -55.076  1.00 40.89       OS15
ATOM  47692  C   LEU O  57     149.665 101.123 -56.749  1.00 60.98       OS15
ATOM  47693  O   LEU O  57     148.579 100.763 -56.310  1.00 60.98       OS15
ATOM  47694  N   MET O  58     150.037 102.392 -56.808  1.00 32.41       OS15
ATOM  47695  CA  MET O  58     149.168 103.457 -56.357  1.00 32.41       OS15
ATOM  47696  CB  MET O  58     149.928 104.783 -56.339  1.00 51.26       OS15
ATOM  47697  CG  MET O  58     151.158 104.740 -55.464  1.00 51.26       OS15
ATOM  47698  SD  MET O  58     151.780 106.363 -55.004  1.00 51.26       OS15
ATOM  47699  CE  MET O  58     152.918 106.655 -56.322  1.00 51.26       OS15
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ATOM  47700  C   MET O  58     147.931 103.583 -57.232  1.00 32.41      OS15
ATOM  47701  O   MET O  58     146.820 103.523 -56.726  1.00 32.41      OS15
ATOM  47702  N   MET O  59     148.121 103.763 -58.537  1.00 45.06      OS15
ATOM  47703  CA  MET O  59     146.993 103.905 -59.452  1.00 45.06      OS15
ATOM  47704  CB  MET O  59     147.467 103.881 -60.903  1.00 61.78      OS15
ATOM  47705  CG  MET O  59     148.403 105.024 -61.262  1.00 61.78      OS15
ATOM  47706  SD  MET O  59     148.936 105.047 -63.003  1.00 61.78      OS15
ATOM  47707  CE  MET O  59     148.714 103.315 -63.459  1.00 61.78      OS15
ATOM  47708  C   MET O  59     146.002 102.779 -59.222  1.00 45.06      OS15
ATOM  47709  O   MET O  59     144.802 103.005 -59.066  1.00 45.06      OS15
ATOM  47710  N   VAL O  60     146.503 101.559 -59.194  1.00 30.71      OS15
ATOM  47711  CA  VAL O  60     145.637 100.424 -58.969  1.00 30.71      OS15
ATOM  47712  CB  VAL O  60     146.443  99.158 -58.854  1.00 22.96      OS15
ATOM  47713  CG1 VAL O  60     145.572  98.041 -58.319  1.00 22.96      OS15
ATOM  47714  CG2 VAL O  60     147.007  98.811 -60.212  1.00 22.96      OS15
ATOM  47715  C   VAL O  60     144.823 100.600 -57.700  1.00 30.71      OS15
ATOM  47716  O   VAL O  60     143.616 100.412 -57.705  1.00 30.71      OS15
ATOM  47717  N   GLY O  61     145.484 100.956 -56.608  1.00 46.36      OS15
ATOM  47718  CA  GLY O  61     144.768 101.152 -55.363  1.00 46.36      OS15
ATOM  47719  C   GLY O  61     143.741 102.254 -55.512  1.00 46.36      OS15
ATOM  47720  O   GLY O  61     142.588 102.105 -55.124  1.00 46.36      OS15
ATOM  47721  N   GLN O  62     144.159 103.371 -56.085  1.00 47.22      OS15
ATOM  47722  CA  GLN O  62     143.259 104.490 -56.282  1.00 47.22      OS15
ATOM  47723  CB  GLN O  62     143.991 105.622 -56.992  1.00 51.63      OS15
ATOM  47724  CG  GLN O  62     143.230 106.932 -57.035  1.00 51.63      OS15
ATOM  47725  CD  GLN O  62     142.677 107.334 -55.683  1.00 51.63      OS15
ATOM  47726  OE1 GLN O  62     143.333 107.173 -54.658  1.00 51.63      OS15
ATOM  47727  NE2 GLN O  62     141.463 107.872 -55.678  1.00 51.63      OS15
ATOM  47728  C   GLN O  62     142.069 104.023 -57.107  1.00 47.22      OS15
ATOM  47729  O   GLN O  62     140.955 104.524 -56.957  1.00 47.22      OS15
ATOM  47730  N   ARG O  63     142.291 103.050 -57.979  1.00 43.56      OS15
ATOM  47731  CA  ARG O  63     141.182 102.578 -58.774  1.00 43.56      OS15
ATOM  47732  CB  ARG O  63     141.653 101.758 -59.974  1.00 38.16      OS15
ATOM  47733  CG  ARG O  63     140.542 101.569 -60.996  1.00 38.16      OS15
ATOM  47734  CD  ARG O  63     141.059 101.042 -62.312  1.00 38.16      OS15
ATOM  47735  NE  ARG O  63     141.576  99.683 -62.193  1.00 38.16      OS15
ATOM  47736  CZ  ARG O  63     142.186  99.037 -63.179  1.00 38.16      OS15
ATOM  47737  NH1 ARG O  63     142.353  99.634 -64.350  1.00 38.16      OS15
ATOM  47738  NH2 ARG O  63     142.632  97.801 -62.992  1.00 38.16      OS15
ATOM  47739  C   ARG O  63     140.233 101.762 -57.913  1.00 43.56      OS15
ATOM  47740  O   ARG O  63     139.185 102.260 -57.526  1.00 43.56      OS15
ATOM  47741  N   ARG O  64     140.595 100.522 -57.594  1.00 55.49      OS15
ATOM  47742  CA  ARG O  64     139.725  99.672 -56.782  1.00 55.49      OS15
ATOM  47743  CB  ARG O  64     140.533  98.546 -56.130  1.00117.91      OS15
ATOM  47744  CG  ARG O  64     141.690  98.996 -55.269  1.00117.91      OS15
ATOM  47745  CD  ARG O  64     142.716  97.876 -55.141  1.00117.91      OS15
ATOM  47746  NE  ARG O  64     142.115  96.614 -54.710  1.00117.91      OS15
ATOM  47747  CZ  ARG O  64     141.707  96.360 -53.470  1.00117.91      OS15
ATOM  47748  NH1 ARG O  64     141.836  97.283 -52.527  1.00117.91      OS15
ATOM  47749  NH2 ARG O  64     141.167  95.184 -53.175  1.00117.91      OS15
ATOM  47750  C   ARG O  64     138.953 100.467 -55.732  1.00 55.49      OS15
ATOM  47751  O   ARG O  64     137.784 100.201 -55.467  1.00 55.49      OS15
ATOM  47752  N   ARG O  65     139.601 101.466 -55.157  1.00 35.83      OS15
ATOM  47753  CA  ARG O  65     138.948 102.299 -54.169  1.00 35.83      OS15
ATOM  47754  CB  ARG O  65     139.946 103.305 -53.612  1.00 78.62      OS15
ATOM  47755  CG  ARG O  65     139.654 103.751 -52.199  1.00 78.62      OS15
ATOM  47756  CD  ARG O  65     140.945 103.794 -51.427  1.00 78.62      OS15
ATOM  47757  NE  ARG O  65     141.968 104.521 -52.170  1.00 78.62      OS15
ATOM  47758  CZ  ARG O  65     143.272 104.301 -52.054  1.00 78.62      OS15
ATOM  47759  NH1 ARG O  65     143.716 103.366 -51.217  1.00 78.62      OS15
ATOM  47760  NH2 ARG O  65     144.130 105.009 -52.780  1.00 78.62      OS15
ATOM  47761  C   ARG O  65     137.747 103.015 -54.816  1.00 35.83      OS15
ATOM  47762  O   ARG O  65     136.654 103.046 -54.252  1.00 35.83      OS15
ATOM  47763  N   LEU O  66     137.940 103.595 -55.995  1.00 45.86      OS15
ATOM  47764  CA  LEU O  66     136.832 104.253 -56.675  1.00 45.86      OS15
ATOM  47765  CB  LEU O  66     137.280 104.905 -57.978  1.00 42.99      OS15
ATOM  47766  CG  LEU O  66     138.181 106.135 -57.874  1.00 42.99      OS15
ATOM  47767  CD1 LEU O  66     138.285 106.729 -59.254  1.00 42.99      OS15
ATOM  47768  CD2 LEU O  66     137.617 107.178 -56.897  1.00 42.99      OS15
ATOM  47769  C   LEU O  66     135.802 103.196 -56.995  1.00 45.86      OS15
ATOM  47770  O   LEU O  66     134.661 103.275 -56.551  1.00 45.86      OS15
ATOM  47771  N   LEU O  67     136.211 102.199 -57.768  1.00 54.20      OS15
ATOM  47772  CA  LEU O  67     135.302 101.126 -58.138  1.00 54.20      OS15
ATOM  47773  CB  LEU O  67     136.076  99.935 -58.694  1.00 40.02      OS15
ATOM  47774  CG  LEU O  67     136.434  99.993 -60.172  1.00 40.02      OS15
ATOM  47775  CD1 LEU O  67     136.174  98.629 -60.741  1.00 40.02      OS15
ATOM  47776  CD2 LEU O  67     135.588 101.004 -60.917  1.00 40.02      OS15
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ATOM  47777  C   LEU O  67     134.476 100.677 -56.950  1.00 54.20       OS15
ATOM  47778  O   LEU O  67     133.268 100.476 -57.055  1.00 54.20       OS15
ATOM  47779  N   ARG O  68     135.143 100.524 -55.818  1.00 56.85       OS15
ATOM  47780  CA  ARG O  68     134.471 100.104 -54.604  1.00 56.85       OS15
ATOM  47781  CB  ARG O  68     135.460 100.060 -53.452  1.00 65.67       OS15
ATOM  47782  CG  ARG O  68     134.850  99.592 -52.171  1.00 65.67       OS15
ATOM  47783  CD  ARG O  68     135.861  99.711 -51.073  1.00 65.67       OS15
ATOM  47784  NE  ARG O  68     136.926  98.721 -51.179  1.00 65.67       OS15
ATOM  47785  CZ  ARG O  68     138.123  98.874 -50.625  1.00 65.67       OS15
ATOM  47786  NH1 ARG O  68     138.395  99.985 -49.944  1.00 65.67       OS15
ATOM  47787  NH2 ARG O  68     139.034  97.911 -50.728  1.00 65.67       OS15
ATOM  47788  C   ARG O  68     133.343 101.065 -54.270  1.00 56.85       OS15
ATOM  47789  O   ARG O  68     132.218 100.652 -54.002  1.00 56.85       OS15
ATOM  47790  N   TYR O  69     133.657 102.351 -54.283  1.00 41.34       OS15
ATOM  47791  CA  TYR O  69     132.669 103.372 -53.997  1.00 41.34       OS15
ATOM  47792  CB  TYR O  69     133.250 104.757 -54.225  1.00 44.91       OS15
ATOM  47793  CG  TYR O  69     132.220 105.861 -54.222  1.00 44.91       OS15
ATOM  47794  CD1 TYR O  69     131.556 106.206 -53.060  1.00 44.91       OS15
ATOM  47795  CE1 TYR O  69     130.652 107.273 -53.032  1.00 44.91       OS15
ATOM  47796  CD2 TYR O  69     131.952 106.599 -55.374  1.00 44.91       OS15
ATOM  47797  CE2 TYR O  69     131.048 107.665 -55.357  1.00 44.91       OS15
ATOM  47798  CZ  TYR O  69     130.404 108.000 -54.176  1.00 44.91       OS15
ATOM  47799  OH  TYR O  69     129.535 109.070 -54.112  1.00 44.91       OS15
ATOM  47800  C   TYR O  69     131.481 103.208 -54.905  1.00 41.34       OS15
ATOM  47801  O   TYR O  69     130.352 103.303 -54.455  1.00 41.34       OS15
ATOM  47802  N   LEU O  70     131.740 102.975 -56.189  1.00 41.70       OS15
ATOM  47803  CA  LEU O  70     130.677 102.818 -57.180  1.00 41.70       OS15
ATOM  47804  CB  LEU O  70     131.276 102.573 -58.575  1.00 40.76       OS15
ATOM  47805  CG  LEU O  70     130.609 103.234 -59.792  1.00 40.76       OS15
ATOM  47806  CD1 LEU O  70     130.859 102.407 -61.042  1.00 40.76       OS15
ATOM  47807  CD2 LEU O  70     129.131 103.341 -59.569  1.00 40.76       OS15
ATOM  47808  C   LEU O  70     129.780 101.649 -56.796  1.00 41.70       OS15
ATOM  47809  O   LEU O  70     128.580 101.802 -56.606  1.00 41.70       OS15
ATOM  47810  N   GLN O  71     130.369 100.474 -56.678  1.00 51.15       OS15
ATOM  47811  CA  GLN O  71     129.601  99.304 -56.308  1.00 51.15       OS15
ATOM  47812  CB  GLN O  71     130.535  98.119 -56.102  1.00 98.87       OS15
ATOM  47813  CG  GLN O  71     129.884  96.934 -55.437  1.00 98.87       OS15
ATOM  47814  CD  GLN O  71     130.764  95.718 -55.498  1.00 98.87       OS15
ATOM  47815  OE1 GLN O  71     131.940  95.776 -55.137  1.00 98.87       OS15
ATOM  47816  NE2 GLN O  71     130.205  94.602 -55.957  1.00 98.87       OS15
ATOM  47817  C   GLN O  71     128.798  99.543 -55.037  1.00 51.15       OS15
ATOM  47818  O   GLN O  71     127.811  98.867 -54.776  1.00 51.15       OS15
ATOM  47819  N   ARG O  72     129.220 100.512 -54.245  1.00 58.01       OS15
ATOM  47820  CA  ARG O  72     128.535 100.791 -53.001  1.00 58.01       OS15
ATOM  47821  CB  ARG O  72     129.547 101.290 -51.971  1.00 84.69       OS15
ATOM  47822  CG  ARG O  72     129.012 101.483 -50.577  1.00 84.69       OS15
ATOM  47823  CD  ARG O  72     130.166 101.727 -49.627  1.00 84.69       OS15
ATOM  47824  NE  ARG O  72     130.876 102.966 -49.930  1.00 84.69       OS15
ATOM  47825  CZ  ARG O  72     130.453 104.176 -49.573  1.00 84.69       OS15
ATOM  47826  NH1 ARG O  72     129.319 104.306 -48.897  1.00 84.69       OS15
ATOM  47827  NH2 ARG O  72     131.159 105.258 -49.888  1.00 84.69       OS15
ATOM  47828  C   ARG O  72     127.443 101.819 -53.204  1.00 58.01       OS15
ATOM  47829  O   ARG O  72     126.711 102.139 -52.278  1.00 58.01       OS15
ATOM  47830  N   GLU O  73     127.317 102.334 -54.418  1.00 60.71       OS15
ATOM  47831  CA  GLU O  73     126.302 103.341 -54.676  1.00 60.71       OS15
ATOM  47832  CB  GLU O  73     126.960 104.658 -55.052  1.00 65.99       OS15
ATOM  47833  CG  GLU O  73     127.714 105.263 -53.914  1.00 65.99       OS15
ATOM  47834  CD  GLU O  73     126.890 105.275 -52.650  1.00 65.99       OS15
ATOM  47835  OE1 GLU O  73     125.702 105.650 -52.725  1.00 65.99       OS15
ATOM  47836  OE2 GLU O  73     127.422 104.916 -51.580  1.00 65.99       OS15
ATOM  47837  C   GLU O  73     125.305 102.963 -55.746  1.00 60.71       OS15
ATOM  47838  O   GLU O  73     124.104 102.908 -55.493  1.00 60.71       OS15
ATOM  47839  N   ASP O  74     125.808 102.716 -56.948  1.00 59.26       OS15
ATOM  47840  CA  ASP O  74     124.958 102.362 -58.072  1.00 59.26       OS15
ATOM  47841  CB  ASP O  74     124.931 103.508 -59.086  1.00132.96       OS15
ATOM  47842  CG  ASP O  74     123.944 103.272 -60.206  1.00132.96       OS15
ATOM  47843  OD1 ASP O  74     124.063 102.243 -60.904  1.00132.96       OS15
ATOM  47844  OD2 ASP O  74     123.048 104.121 -60.387  1.00132.96       OS15
ATOM  47845  C   ASP O  74     125.495 101.105 -58.724  1.00 59.26       OS15
ATOM  47846  O   ASP O  74     126.051 101.146 -59.821  1.00 59.26       OS15
ATOM  47847  N   PRO O  75     125.344  99.968 -58.041  1.00 48.61       OS15
ATOM  47848  CD  PRO O  75     124.787  99.879 -56.686  1.00 25.62       OS15
ATOM  47849  CA  PRO O  75     125.799  98.654 -58.510  1.00 48.61       OS15
ATOM  47850  CB  PRO O  75     125.046  97.662 -57.605  1.00 25.62       OS15
ATOM  47851  CG  PRO O  75     124.121  98.544 -56.740  1.00 25.62       OS15
ATOM  47852  C   PRO O  75     125.583  98.395 -59.999  1.00 48.61       OS15
ATOM  47853  O   PRO O  75     126.282  97.578 -60.605  1.00 48.61       OS15
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ATOM  47854  N   GLU O  76     124.619  99.083 -60.597  1.00 79.56      OS15
ATOM  47855  CA  GLU O  76     124.403  98.902 -62.020  1.00 79.56      OS15
ATOM  47856  CB  GLU O  76     123.083  99.523 -62.464  1.00183.64      OS15
ATOM  47857  CG  GLU O  76     122.742  99.184 -63.901  1.00183.64      OS15
ATOM  47858  CD  GLU O  76     122.961  97.710 -64.208  1.00183.64      OS15
ATOM  47859  OE1 GLU O  76     122.361  96.861 -63.516  1.00183.64      OS15
ATOM  47860  OE2 GLU O  76     123.736  97.403 -65.139  1.00183.64      OS15
ATOM  47861  C   GLU O  76     125.572  99.589 -62.712  1.00 79.56      OS15
ATOM  47862  O   GLU O  76     126.372  98.933 -63.376  1.00 79.56      OS15
ATOM  47863  N   ARG O  77     125.676 100.905 -62.534  1.00 52.34      OS15
ATOM  47864  CA  ARG O  77     126.766 101.675 -63.121  1.00 52.34      OS15
ATOM  47865  CB  ARG O  77     126.903 103.022 -62.418  1.00 61.63      OS15
ATOM  47866  CG  ARG O  77     125.798 104.006 -62.725  1.00 61.63      OS15
ATOM  47867  CD  ARG O  77     126.285 105.443 -62.576  1.00 61.63      OS15
ATOM  47868  NE  ARG O  77     126.201 105.945 -61.211  1.00 61.63      OS15
ATOM  47869  CZ  ARG O  77     126.961 106.925 -60.737  1.00 61.63      OS15
ATOM  47870  NH1 ARG O  77     127.868 107.502 -61.512  1.00 61.63      OS15
ATOM  47871  NH2 ARG O  77     126.813 107.341 -59.490  1.00 61.63      OS15
ATOM  47872  C   ARG O  77     128.063 100.889 -62.952  1.00 52.34      OS15
ATOM  47873  O   ARG O  77     128.877 100.765 -63.877  1.00 52.34      OS15
ATOM  47874  N   TYR O  78     128.242 100.366 -61.746  1.00 57.22      OS15
ATOM  47875  CA  TYR O  78     129.408  99.575 -61.414  1.00 57.22      OS15
ATOM  47876  CB  TYR O  78     129.305  99.084 -59.979  1.00 49.60      OS15
ATOM  47877  CG  TYR O  78     130.305  98.019 -59.658  1.00 49.60      OS15
ATOM  47878  CD1 TYR O  78     131.645  98.335 -59.486  1.00 49.60      OS15
ATOM  47879  CE1 TYR O  78     132.587  97.347 -59.222  1.00 49.60      OS15
ATOM  47880  CD2 TYR O  78     129.921  96.685 -59.558  1.00 49.60      OS15
ATOM  47881  CE2 TYR O  78     130.850  95.689 -59.296  1.00 49.60      OS15
ATOM  47882  CZ  TYR O  78     132.183  96.028 -59.131  1.00 49.60      OS15
ATOM  47883  OH  TYR O  78     133.126  95.055 -58.908  1.00 49.60      OS15
ATOM  47884  C   TYR O  78     129.464  98.391 -62.353  1.00 57.22      OS15
ATOM  47885  O   TYR O  78     130.326  98.318 -63.218  1.00 57.22      OS15
ATOM  47886  N   ARG O  79     128.525  97.468 -62.185  1.00 70.85      OS15
ATOM  47887  CA  ARG O  79     128.469  96.274 -63.019  1.00 70.85      OS15
ATOM  47888  CB  ARG O  79     127.146  95.535 -62.796  1.00169.08      OS15
ATOM  47889  CG  ARG O  79     127.114  94.713 -61.515  1.00169.08      OS15
ATOM  47890  CD  ARG O  79     125.757  94.065 -61.288  1.00169.08      OS15
ATOM  47891  NE  ARG O  79     124.734  95.047 -60.941  1.00169.08      OS15
ATOM  47892  CZ  ARG O  79     123.475  94.743 -60.643  1.00169.08      OS15
ATOM  47893  NH1 ARG O  79     123.074  93.478 -60.651  1.00169.08      OS15
ATOM  47894  NH2 ARG O  79     122.617  95.705 -60.330  1.00169.08      OS15
ATOM  47895  C   ARG O  79     128.643  96.595 -64.496  1.00 70.85      OS15
ATOM  47896  O   ARG O  79     129.087  95.747 -65.273  1.00 70.85      OS15
ATOM  47897  N   ALA O  80     128.302  97.824 -64.873  1.00 65.28      OS15
ATOM  47898  CA  ALA O  80     128.419  98.272 -66.257  1.00 65.28      OS15
ATOM  47899  CB  ALA O  80     127.401  99.334 -66.541  1.00 32.98      OS15
ATOM  47900  C   ALA O  80     129.802  98.816 -66.541  1.00 65.28      OS15
ATOM  47901  O   ALA O  80     130.438  98.424 -67.515  1.00 65.28      OS15
ATOM  47902  N   LEU O  81     130.260  99.727 -65.689  1.00 48.49      OS15
ATOM  47903  CA  LEU O  81     131.578 100.326 -65.855  1.00 48.49      OS15
ATOM  47904  CB  LEU O  81     131.968 101.121 -64.605  1.00 42.20      OS15
ATOM  47905  CG  LEU O  81     132.776 102.398 -64.854  1.00 42.20      OS15
ATOM  47906  CD1 LEU O  81     133.252 102.938 -63.520  1.00 42.20      OS15
ATOM  47907  CD2 LEU O  81     133.949 102.123 -65.784  1.00 42.20      OS15
ATOM  47908  C   LEU O  81     132.629  99.252 -66.111  1.00 48.49      OS15
ATOM  47909  O   LEU O  81     133.526  99.427 -66.936  1.00 48.49      OS15
ATOM  47910  N   ILE O  82     132.515  98.142 -65.395  1.00 75.86      OS15
ATOM  47911  CA  ILE O  82     133.457  97.050 -65.546  1.00 75.86      OS15
ATOM  47912  CB  ILE O  82     133.194  95.947 -64.542  1.00 65.57      OS15
ATOM  47913  CG2 ILE O  82     134.141  94.791 -64.804  1.00 65.57      OS15
ATOM  47914  CG1 ILE O  82     133.362  96.481 -63.125  1.00 65.57      OS15
ATOM  47915  CD1 ILE O  82     132.843  95.526 -62.084  1.00 65.57      OS15
ATOM  47916  C   ILE O  82     133.350  96.433 -66.922  1.00 75.86      OS15
ATOM  47917  O   ILE O  82     134.283  96.514 -67.719  1.00 75.86      OS15
ATOM  47918  N   GLU O  83     132.210  95.801 -67.188  1.00 98.11      OS15
ATOM  47919  CA  GLU O  83     131.978  95.156 -68.474  1.00 98.11      OS15
ATOM  47920  CB  GLU O  83     130.489  94.873 -68.678  1.00200.96      OS15
ATOM  47921  CG  GLU O  83     130.188  94.176 -70.000  1.00200.96      OS15
ATOM  47922  CD  GLU O  83     128.906  94.664 -70.647  1.00200.96      OS15
ATOM  47923  OE1 GLU O  83     128.805  95.879 -70.925  1.00200.96      OS15
ATOM  47924  OE2 GLU O  83     128.001  93.835 -70.882  1.00200.96      OS15
ATOM  47925  C   GLU O  83     132.473  96.030 -69.618  1.00 98.11      OS15
ATOM  47926  O   GLU O  83     133.085  95.537 -70.566  1.00 98.11      OS15
ATOM  47927  N   LYS O  84     132.205  97.330 -69.527  1.00 71.99      OS15
ATOM  47928  CA  LYS O  84     132.627  98.253 -70.569  1.00 71.99      OS15
ATOM  47929  CB  LYS O  84     132.099  99.662 -70.293  1.00 76.85      OS15
ATOM  47930  CG  LYS O  84     132.239 100.595 -71.485  1.00 76.85      OS15
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ATOM  47931  CD  LYS O  84     131.536 101.924 -71.261  1.00 76.85       OS15
ATOM  47932  CE  LYS O  84     131.585 102.785 -72.518  1.00 76.85       OS15
ATOM  47933  NZ  LYS O  84     130.803 104.044 -72.371  1.00 76.85       OS15
ATOM  47934  C   LYS O  84     134.143  98.264 -70.650  1.00 71.99       OS15
ATOM  47935  O   LYS O  84     134.707  98.218 -71.739  1.00 71.99       OS15
ATOM  47936  N   LEU O  85     134.804  98.325 -69.498  1.00 66.05       OS15
ATOM  47937  CA  LEU O  85     136.258  98.307 -69.471  1.00 66.05       OS15
ATOM  47938  CB  LEU O  85     136.778  98.830 -68.138  1.00 41.68       OS15
ATOM  47939  CG  LEU O  85     136.541 100.311 -67.866  1.00 41.68       OS15
ATOM  47940  CD1 LEU O  85     137.056 100.675 -66.474  1.00 41.68       OS15
ATOM  47941  CD2 LEU O  85     137.240 101.138 -68.924  1.00 41.68       OS15
ATOM  47942  C   LEU O  85     136.734  96.875 -69.670  1.00 66.05       OS15
ATOM  47943  O   LEU O  85     136.864  96.402 -70.798  1.00 66.05       OS15
ATOM  47944  N   GLY O  86     136.982  96.182 -68.566  1.00 96.44       OS15
ATOM  47945  CA  GLY O  86     137.445  94.809 -68.641  1.00 96.44       OS15
ATOM  47946  C   GLY O  86     138.030  94.393 -67.309  1.00 96.44       OS15
ATOM  47947  O   GLY O  86     138.551  93.289 -67.159  1.00 96.44       OS15
ATOM  47948  N   ILE O  87     137.940  95.301 -66.342  1.00 73.77       OS15
ATOM  47949  CA  ILE O  87     138.439  95.078 -64.989  1.00 73.77       OS15
ATOM  47950  CB  ILE O  87     138.065  96.268 -64.068  1.00 86.79       OS15
ATOM  47951  CG2 ILE O  87     138.530  96.005 -62.640  1.00 86.79       OS15
ATOM  47952  CG1 ILE O  87     138.683  97.556 -64.618  1.00 86.79       OS15
ATOM  47953  CD1 ILE O  87     138.340  98.793 -63.822  1.00 86.79       OS15
ATOM  47954  C   ILE O  87     137.853  93.798 -64.405  1.00 73.77       OS15
ATOM  47955  O   ILE O  87     136.849  93.282 -64.905  1.00 73.77       OS15
ATOM  47956  N   ARG O  88     138.488  93.292 -63.351  1.00200.96       OS15
ATOM  47957  CA  ARG O  88     138.042  92.073 -62.690  1.00200.96       OS15
ATOM  47958  CB  ARG O  88     136.580  92.214 -62.252  1.00186.26       OS15
ATOM  47959  CG  ARG O  88     136.303  93.401 -61.346  1.00186.26       OS15
ATOM  47960  CD  ARG O  88     137.017  93.261 -60.015  1.00186.26       OS15
ATOM  47961  NE  ARG O  88     136.672  94.342 -59.094  1.00186.26       OS15
ATOM  47962  CZ  ARG O  88     137.097  94.420 -57.836  1.00186.26       OS15
ATOM  47963  NH1 ARG O  88     137.889  93.478 -57.340  1.00186.26       OS15
ATOM  47964  NH2 ARG O  88     136.727  95.439 -57.070  1.00186.26       OS15
ATOM  47965  C   ARG O  88     138.180  90.888 -63.640  1.00200.96       OS15
ATOM  47966  O   ARG O  88     137.678  89.799 -63.365  1.00200.96       OS15
ATOM  47967  N   GLY O  89     138.866  91.110 -64.758  1.00200.96       OS15
ATOM  47968  CA  GLY O  89     139.050  90.056 -65.740  1.00200.96       OS15
ATOM  47969  C   GLY O  89     140.218  89.133 -65.450  1.00200.96       OS15
ATOM  47970  O   GLY O  89     139.992  87.911 -65.318  1.00200.96       OS15
ATOM  47971  OXT GLY O  89     141.362  89.627 -65.360  1.00192.45       OS15
TER   47971       GLY O  89                                              OS15
ATOM  47972  CB  MET P   1     108.405  65.961   3.732  1.00 68.30       PS16
ATOM  47973  CG  MET P   1     107.528  66.451   4.829  1.00 68.30       PS16
ATOM  47974  SD  MET P   1     107.493  65.249   6.112  1.00 68.30       PS16
ATOM  47975  CE  MET P   1     109.125  65.439   6.796  1.00 68.30       PS16
ATOM  47976  C   MET P   1     109.299  68.235   3.495  1.00 77.63       PS16
ATOM  47977  O   MET P   1     110.173  68.092   4.354  1.00 77.63       PS16
ATOM  47978  N   MET P   1     109.707  66.562   1.709  1.00 77.63       PS16
ATOM  47979  CA  MET P   1     108.738  67.052   2.735  1.00 77.63       PS16
ATOM  47980  N   VAL P   2     108.769  69.407   3.181  1.00 28.50       PS16
ATOM  47981  CA  VAL P   2     109.224  70.629   3.809  1.00 28.50       PS16
ATOM  47982  CB  VAL P   2     108.740  71.870   2.986  1.00 16.26       PS16
ATOM  47983  CG1 VAL P   2     107.376  71.599   2.379  1.00 16.26       PS16
ATOM  47984  CG2 VAL P   2     108.685  73.093   3.871  1.00 16.26       PS16
ATOM  47985  C   VAL P   2     108.777  70.689   5.267  1.00 28.50       PS16
ATOM  47986  O   VAL P   2     107.642  70.372   5.610  1.00 28.50       PS16
ATOM  47987  N   LYS P   3     109.686  71.094   6.129  1.00 40.51       PS16
ATOM  47988  CA  LYS P   3     109.367  71.157   7.530  1.00 40.51       PS16
ATOM  47989  CB  LYS P   3     110.246  70.158   8.256  1.00 45.60       PS16
ATOM  47990  CG  LYS P   3     110.050  68.763   7.716  1.00 45.60       PS16
ATOM  47991  CD  LYS P   3     110.848  67.753   8.486  1.00 45.60       PS16
ATOM  47992  CE  LYS P   3     110.396  67.653   9.920  1.00 45.60       PS16
ATOM  47993  NZ  LYS P   3     111.343  66.794  10.685  1.00 45.60       PS16
ATOM  47994  C   LYS P   3     109.508  72.548   8.139  1.00 40.51       PS16
ATOM  47995  O   LYS P   3     109.987  73.482   7.491  1.00 40.51       PS16
ATOM  47996  N   ILE P   4     109.042  72.696   9.373  1.00 41.80       PS16
ATOM  47997  CA  ILE P   4     109.155  73.961  10.073  1.00 41.80       PS16
ATOM  47998  CB  ILE P   4     107.780  74.537  10.465  1.00 34.92       PS16
ATOM  47999  CG2 ILE P   4     107.956  75.877  11.153  1.00 34.92       PS16
ATOM  48000  CG1 ILE P   4     106.914  74.726   9.219  1.00 34.92       PS16
ATOM  48001  CD1 ILE P   4     105.610  75.475   9.469  1.00 34.92       PS16
ATOM  48002  C   ILE P   4     109.905  73.543  11.311  1.00 41.80       PS16
ATOM  48003  O   ILE P   4     109.325  72.949  12.214  1.00 41.80       PS16
ATOM  48004  N   ARG P   5     111.200  73.824  11.343  1.00 30.61       PS16
ATOM  48005  CA  ARG P   5     112.005  73.426  12.477  1.00 30.61       PS16
ATOM  48006  CB  ARG P   5     112.777  72.170  12.127  1.00 43.87       PS16
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ATOM  48007  CG  ARG P   5     113.972  72.414  11.243  1.00 43.87      PS16
ATOM  48008  CD  ARG P   5     114.289  71.161  10.470  1.00 43.87      PS16
ATOM  48009  NE  ARG P   5     115.606  71.194   9.853  1.00 43.87      PS16
ATOM  48010  CZ  ARG P   5     115.962  70.410   8.842  1.00 43.87      PS16
ATOM  48011  NH1 ARG P   5     115.099  69.535   8.335  1.00 43.87      PS16
ATOM  48012  NH2 ARG P   5     117.177  70.513   8.325  1.00 43.87      PS16
ATOM  48013  C   ARG P   5     112.977  74.489  12.939  1.00 30.61      PS16
ATOM  48014  O   ARG P   5     113.063  75.573  12.359  1.00 30.61      PS16
ATOM  48015  N   LEU P   6     113.724  74.150  13.984  1.00 46.56      PS16
ATOM  48016  CA  LEU P   6     114.700  75.051  14.561  1.00 46.56      PS16
ATOM  48017  CB  LEU P   6     114.800  74.811  16.053  1.00 39.64      PS16
ATOM  48018  CG  LEU P   6     113.811  75.636  16.850  1.00 39.64      PS16
ATOM  48019  CD1 LEU P   6     112.384  75.255  16.495  1.00 39.64      PS16
ATOM  48020  CD2 LEU P   6     114.098  75.416  18.307  1.00 39.64      PS16
ATOM  48021  C   LEU P   6     116.085  74.945  13.954  1.00 46.56      PS16
ATOM  48022  O   LEU P   6     116.565  73.853  13.636  1.00 46.56      PS16
ATOM  48023  N   ALA P   7     116.728  76.101  13.818  1.00 36.97      PS16
ATOM  48024  CA  ALA P   7     118.060  76.186  13.251  1.00 36.97      PS16
ATOM  48025  CB  ALA P   7     118.000  76.950  11.962  1.00  4.05      PS16
ATOM  48026  C   ALA P   7     118.966  76.886  14.250  1.00 36.97      PS16
ATOM  48027  O   ALA P   7     118.603  77.929  14.793  1.00 36.97      PS16
ATOM  48028  N   ARG P   8     120.141  76.302  14.480  1.00 38.69      PS16
ATOM  48029  CA  ARG P   8     121.127  76.808  15.436  1.00 38.69      PS16
ATOM  48030  CB  ARG P   8     122.087  75.693  15.808  1.00 47.47      PS16
ATOM  48031  CG  ARG P   8     121.965  75.234  17.235  1.00 47.47      PS16
ATOM  48032  CD  ARG P   8     122.865  76.033  18.161  1.00 47.47      PS16
ATOM  48033  NE  ARG P   8     123.091  75.329  19.421  1.00 47.47      PS16
ATOM  48034  CZ  ARG P   8     123.921  75.750  20.369  1.00 47.47      PS16
ATOM  48035  NH1 ARG P   8     124.600  76.879  20.192  1.00 47.47      PS16
ATOM  48036  NH2 ARG P   8     124.082  75.039  21.485  1.00 47.47      PS16
ATOM  48037  C   ARG P   8     121.922  78.007  14.949  1.00 38.69      PS16
ATOM  48038  O   ARG P   8     122.469  77.990  13.851  1.00 38.69      PS16
ATOM  48039  N   PHE P   9     122.011  79.036  15.789  1.00 55.25      PS16
ATOM  48040  CA  PHE P   9     122.724  80.240  15.410  1.00 55.25      PS16
ATOM  48041  CB  PHE P   9     121.750  81.222  14.786  1.00 43.62      PS16
ATOM  48042  CG  PHE P   9     121.562  81.018  13.330  1.00 43.62      PS16
ATOM  48043  CD1 PHE P   9     122.565  81.367  12.441  1.00 43.62      PS16
ATOM  48044  CD2 PHE P   9     120.403  80.442  12.843  1.00 43.62      PS16
ATOM  48045  CE1 PHE P   9     122.414  81.142  11.089  1.00 43.62      PS16
ATOM  48046  CE2 PHE P   9     120.246  80.214  11.492  1.00 43.62      PS16
ATOM  48047  CZ  PHE P   9     121.253  80.564  10.614  1.00 43.62      PS16
ATOM  48048  C   PHE P   9     123.532  80.972  16.462  1.00 55.25      PS16
ATOM  48049  O   PHE P   9     124.445  81.718  16.123  1.00 55.25      PS16
ATOM  48050  N   GLY P  10     123.217  80.782  17.731  1.00 37.10      PS16
ATOM  48051  CA  GLY P  10     123.963  81.499  18.758  1.00 37.10      PS16
ATOM  48052  C   GLY P  10     125.487  81.383  18.761  1.00 37.10      PS16
ATOM  48053  O   GLY P  10     126.185  81.938  17.920  1.00 37.10      PS16
ATOM  48054  N   SER P  11     125.996  80.667  19.749  1.00 58.94      PS16
ATOM  48055  CA  SER P  11     127.418  80.448  19.905  1.00 58.94      PS16
ATOM  48056  CB  SER P  11     128.121  81.756  20.233  1.00 57.84      PS16
ATOM  48057  OG  SER P  11     127.385  82.492  21.182  1.00 57.84      PS16
ATOM  48058  C   SER P  11     127.548  79.455  21.042  1.00 58.94      PS16
ATOM  48059  O   SER P  11     126.563  79.170  21.728  1.00 58.94      PS16
ATOM  48060  N   LYS P  12     128.741  78.915  21.243  1.00 49.37      PS16
ATOM  48061  CA  LYS P  12     128.907  77.925  22.292  1.00 49.37      PS16
ATOM  48062  CB  LYS P  12     130.388  77.595  22.483  1.00 56.63      PS16
ATOM  48063  CG  LYS P  12     130.631  76.445  23.432  1.00 56.63      PS16
ATOM  48064  CD  LYS P  12     132.053  76.441  23.958  1.00 56.63      PS16
ATOM  48065  CE  LYS P  12     132.993  75.729  23.021  1.00 56.63      PS16
ATOM  48066  NZ  LYS P  12     134.377  75.731  23.558  1.00 56.63      PS16
ATOM  48067  C   LYS P  12     128.297  78.422  23.605  1.00 49.37      PS16
ATOM  48068  O   LYS P  12     128.712  79.442  24.151  1.00 49.37      PS16
ATOM  48069  N   HIS P  13     127.296  77.702  24.096  1.00 44.28      PS16
ATOM  48070  CA  HIS P  13     126.629  78.062  25.338  1.00 44.28      PS16
ATOM  48071  CB  HIS P  13     127.649  78.277  26.446  1.00 68.72      PS16
ATOM  48072  CG  HIS P  13     128.481  77.073  26.733  1.00 68.72      PS16
ATOM  48073  CD2 HIS P  13     129.783  76.951  27.086  1.00 68.72      PS16
ATOM  48074  ND1 HIS P  13     127.968  75.795  26.703  1.00 68.72      PS16
ATOM  48075  CE1 HIS P  13     128.919  74.936  27.024  1.00 68.72      PS16
ATOM  48076  NE2 HIS P  13     130.030  75.611  27.262  1.00 68.72      PS16
ATOM  48077  C   HIS P  13     125.759  79.308  25.225  1.00 44.28      PS16
ATOM  48078  O   HIS P  13     125.343  79.864  26.240  1.00 44.28      PS16
ATOM  48079  N   ASN P  14     125.488  79.748  24.001  1.00 44.01      PS16
ATOM  48080  CA  ASN P  14     124.668  80.932  23.778  1.00 44.01      PS16
ATOM  48081  CB  ASN P  14     125.555  82.148  23.479  1.00 57.95      PS16
ATOM  48082  CG  ASN P  14     124.754  83.393  23.152  1.00 57.95      PS16
ATOM  48083  OD1 ASN P  14     123.830  83.751  23.873  1.00 57.95      PS16
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ATOM  48084  ND2 ASN P  14     125.110  84.064  22.061  1.00 57.95       PS16
ATOM  48085  C   ASN P  14     123.754  80.637  22.608  1.00 44.01       PS16
ATOM  48086  O   ASN P  14     123.658  81.407  21.664  1.00 44.01       PS16
ATOM  48087  N   PRO P  15     123.046  79.511  22.678  1.00 47.92       PS16
ATOM  48088  CD  PRO P  15     122.842  78.749  23.917  1.00 45.52       PS16
ATOM  48089  CA  PRO P  15     122.116  79.045  21.652  1.00 47.92       PS16
ATOM  48090  CB  PRO P  15     121.544  77.783  22.269  1.00 45.52       PS16
ATOM  48091  CG  PRO P  15     121.468  78.153  23.689  1.00 45.52       PS16
ATOM  48092  C   PRO P  15     121.005  80.000  21.276  1.00 47.92       PS16
ATOM  48093  O   PRO P  15     120.295  80.500  22.139  1.00 47.92       PS16
ATOM  48094  N   HIS P  16     120.858  80.228  19.977  1.00 36.04       PS16
ATOM  48095  CA  HIS P  16     119.790  81.065  19.438  1.00 36.04       PS16
ATOM  48096  CB  HIS P  16     120.299  82.452  19.073  1.00 53.45       PS16
ATOM  48097  CG  HIS P  16     120.367  83.386  20.234  1.00 53.45       PS16
ATOM  48098  CD2 HIS P  16     119.557  84.404  20.603  1.00 53.45       PS16
ATOM  48099  ND1 HIS P  16     121.356  83.310  21.190  1.00 53.45       PS16
ATOM  48100  CE1 HIS P  16     121.155  84.246  22.099  1.00 53.45       PS16
ATOM  48101  NE2 HIS P  16     120.071  84.923  21.765  1.00 53.45       PS16
ATOM  48102  C   HIS P  16     119.267  80.370  18.198  1.00 36.04       PS16
ATOM  48103  O   HIS P  16     120.021  80.082  17.271  1.00 36.04       PS16
ATOM  48104  N   TYR P  17     117.976  80.097  18.172  1.00 35.16       PS16
ATOM  48105  CA  TYR P  17     117.436  79.389  17.032  1.00 35.16       PS16
ATOM  48106  CB  TYR P  17     116.558  78.227  17.510  1.00 49.13       PS16
ATOM  48107  CG  TYR P  17     117.281  77.218  18.373  1.00 49.13       PS16
ATOM  48108  CD1 TYR P  17     117.277  77.317  19.759  1.00 49.13       PS16
ATOM  48109  CE1 TYR P  17     117.957  76.394  20.544  1.00 49.13       PS16
ATOM  48110  CD2 TYR P  17     117.985  76.173  17.795  1.00 49.13       PS16
ATOM  48111  CE2 TYR P  17     118.671  75.250  18.570  1.00 49.13       PS16
ATOM  48112  CZ  TYR P  17     118.653  75.363  19.939  1.00 49.13       PS16
ATOM  48113  OH  TYR P  17     119.342  74.437  20.685  1.00 49.13       PS16
ATOM  48114  C   TYR P  17     116.646  80.253  16.082  1.00 35.16       PS16
ATOM  48115  O   TYR P  17     116.360  81.414  16.365  1.00 35.16       PS16
ATOM  48116  N   ARG P  18     116.315  79.676  14.936  1.00 41.89       PS16
ATOM  48117  CA  ARG P  18     115.513  80.363  13.948  1.00 41.89       PS16
ATOM  48118  CB  ARG P  18     116.333  80.732  12.719  1.00 50.65       PS16
ATOM  48119  CG  ARG P  18     117.256  81.889  12.926  1.00 50.65       PS16
ATOM  48120  CD  ARG P  18     117.752  82.436  11.608  1.00 50.65       PS16
ATOM  48121  NE  ARG P  18     118.753  83.477  11.811  1.00 50.65       PS16
ATOM  48122  CZ  ARG P  18     119.353  84.131  10.824  1.00 50.65       PS16
ATOM  48123  NH1 ARG P  18     119.049  83.843   9.570  1.00 50.65       PS16
ATOM  48124  NH2 ARG P  18     120.245  85.074  11.086  1.00 50.65       PS16
ATOM  48125  C   ARG P  18     114.407  79.426  13.521  1.00 41.89       PS16
ATOM  48126  O   ARG P  18     114.677  78.407  12.893  1.00 41.89       PS16
ATOM  48127  N   ILE P  19     113.169  79.732  13.891  1.00 34.02       PS16
ATOM  48128  CA  ILE P  19     112.065  78.893  13.456  1.00 34.02       PS16
ATOM  48129  CB  ILE P  19     110.717  79.425  13.944  1.00 38.15       PS16
ATOM  48130  CG2 ILE P  19     109.574  78.798  13.129  1.00 38.15       PS16
ATOM  48131  CG1 ILE P  19     110.589  79.163  15.449  1.00 38.15       PS16
ATOM  48132  CD1 ILE P  19     111.701  79.779  16.274  1.00 38.15       PS16
ATOM  48133  C   ILE P  19     112.175  79.060  11.959  1.00 34.02       PS16
ATOM  48134  O   ILE P  19     112.159  80.181  11.454  1.00 34.02       PS16
ATOM  48135  N   VAL P  20     112.278  77.949  11.245  1.00 41.81       PS16
ATOM  48136  CA  VAL P  20     112.490  78.029   9.820  1.00 41.81       PS16
ATOM  48137  CB  VAL P  20     113.981  77.947   9.576  1.00 25.92       PS16
ATOM  48138  CG1 VAL P  20     114.249  77.580   8.154  1.00 25.92       PS16
ATOM  48139  CG2 VAL P  20     114.633  79.264   9.949  1.00 25.92       PS16
ATOM  48140  C   VAL P  20     111.818  76.974   8.965  1.00 41.81       PS16
ATOM  48141  O   VAL P  20     111.723  75.820   9.372  1.00 41.81       PS16
ATOM  48142  N   VAL P  21     111.357  77.374   7.780  1.00 20.47       PS16
ATOM  48143  CA  VAL P  21     110.761  76.422   6.843  1.00 20.47       PS16
ATOM  48144  CB  VAL P  21     109.713  77.077   5.899  1.00 25.11       PS16
ATOM  48145  CG1 VAL P  21     109.388  76.138   4.742  1.00 25.11       PS16
ATOM  48146  CG2 VAL P  21     108.445  77.398   6.659  1.00 25.11       PS16
ATOM  48147  C   VAL P  21     111.919  75.898   5.980  1.00 20.47       PS16
ATOM  48148  O   VAL P  21     112.813  76.660   5.601  1.00 20.47       PS16
ATOM  48149  N   THR P  22     111.917  74.604   5.679  1.00 53.90       PS16
ATOM  48150  CA  THR P  22     112.981  74.024   4.868  1.00 53.90       PS16
ATOM  48151  CB  THR P  22     114.308  74.003   5.599  1.00 44.55       PS16
ATOM  48152  OG1 THR P  22     115.306  73.451   4.728  1.00 44.55       PS16
ATOM  48153  CG2 THR P  22     114.204  73.158   6.858  1.00 44.55       PS16
ATOM  48154  C   THR P  22     112.703  72.596   4.476  1.00 53.90       PS16
ATOM  48155  O   THR P  22     111.714  72.009   4.898  1.00 53.90       PS16
ATOM  48156  N   ASP P  23     113.593  72.033   3.673  1.00 44.55       PS16
ATOM  48157  CA  ASP P  23     113.437  70.663   3.232  1.00 44.55       PS16
ATOM  48158  CB  ASP P  23     113.967  70.512   1.819  1.00 54.79       PS16
ATOM  48159  CG  ASP P  23     113.836  69.114   1.318  1.00 54.79       PS16
ATOM  48160  OD1 ASP P  23     114.429  68.215   1.949  1.00 54.79       PS16
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ATOM  48161  OD2 ASP P  23     113.134  68.909   0.305  1.00 54.79      PS16
ATOM  48162  C   ASP P  23     114.175  69.725   4.176  1.00 44.55      PS16
ATOM  48163  O   ASP P  23     115.392  69.767   4.284  1.00 44.55      PS16
ATOM  48164  N   ALA P  24     113.426  68.866   4.849  1.00 38.45      PS16
ATOM  48165  CA  ALA P  24     113.992  67.931   5.813  1.00 38.45      PS16
ATOM  48166  CB  ALA P  24     113.047  66.809   6.019  1.00 14.93      PS16
ATOM  48167  C   ALA P  24     115.361  67.361   5.496  1.00 38.45      PS16
ATOM  48168  O   ALA P  24     116.164  67.148   6.394  1.00 38.45      PS16
ATOM  48169  N   ARG P  25     115.628  67.100   4.224  1.00 34.01      PS16
ATOM  48170  CA  ARG P  25     116.903  66.524   3.831  1.00 34.01      PS16
ATOM  48171  CB  ARG P  25     116.819  66.027   2.385  1.00 56.64      PS16
ATOM  48172  CG  ARG P  25     115.888  64.844   2.191  1.00 56.64      PS16
ATOM  48173  CD  ARG P  25     115.556  64.610   0.729  1.00 56.64      PS16
ATOM  48174  NE  ARG P  25     114.871  65.772   0.176  1.00 56.64      PS16
ATOM  48175  CZ  ARG P  25     114.313  65.820  -1.031  1.00 56.64      PS16
ATOM  48176  NH1 ARG P  25     114.346  64.756  -1.834  1.00 56.64      PS16
ATOM  48177  NH2 ARG P  25     113.725  66.941  -1.436  1.00 56.64      PS16
ATOM  48178  C   ARG P  25     118.074  67.482   3.980  1.00 34.01      PS16
ATOM  48179  O   ARG P  25     119.229  67.070   3.920  1.00 34.01      PS16
ATOM  48180  N   ARG P  26     117.800  68.757   4.196  1.00 26.59      PS16
ATOM  48181  CA  ARG P  26     118.902  69.685   4.298  1.00 26.59      PS16
ATOM  48182  CB  ARG P  26     118.447  71.080   3.912  1.00 46.90      PS16
ATOM  48183  CG  ARG P  26     119.603  71.981   3.555  1.00 46.90      PS16
ATOM  48184  CD  ARG P  26     119.116  73.295   3.003  1.00 46.90      PS16
ATOM  48185  NE  ARG P  26     118.661  73.236   1.614  1.00 46.90      PS16
ATOM  48186  CZ  ARG P  26     119.454  72.959   0.587  1.00 46.90      PS16
ATOM  48187  NH1 ARG P  26     120.743  72.698   0.790  1.00 46.90      PS16
ATOM  48188  NH2 ARG P  26     118.975  72.997  -0.646  1.00 46.90      PS16
ATOM  48189  C   ARG P  26     119.574  69.720   5.666  1.00 26.59      PS16
ATOM  48190  O   ARG P  26     119.019  69.218   6.648  1.00 26.59      PS16
ATOM  48191  N   LYS P  27     120.786  70.288   5.709  1.00 32.12      PS16
ATOM  48192  CA  LYS P  27     121.546  70.428   6.946  1.00 32.12      PS16
ATOM  48193  CB  LYS P  27     122.764  71.310   6.744  1.00 50.53      PS16
ATOM  48194  CG  LYS P  27     123.794  70.804   5.782  1.00 50.53      PS16
ATOM  48195  CD  LYS P  27     125.030  71.687   5.861  1.00 50.53      PS16
ATOM  48196  CE  LYS P  27     126.027  71.258   4.836  1.00 50.53      PS16
ATOM  48197  NZ  LYS P  27     125.335  71.132   3.519  1.00 50.53      PS16
ATOM  48198  C   LYS P  27     120.643  71.150   7.915  1.00 32.12      PS16
ATOM  48199  O   LYS P  27     119.687  71.786   7.499  1.00 32.12      PS16
ATOM  48200  N   ARG P  28     120.935  71.092   9.202  1.00 53.70      PS16
ATOM  48201  CA  ARG P  28     120.050  71.786  10.105  1.00 53.70      PS16
ATOM  48202  CB  ARG P  28     120.273  71.334  11.557  1.00 38.64      PS16
ATOM  48203  CG  ARG P  28     121.357  72.078  12.330  1.00 38.64      PS16
ATOM  48204  CD  ARG P  28     120.896  72.394  13.753  1.00 38.64      PS16
ATOM  48205  NE  ARG P  28     121.545  71.547  14.742  1.00 38.64      PS16
ATOM  48206  CZ  ARG P  28     122.762  71.771  15.231  1.00 38.64      PS16
ATOM  48207  NH1 ARG P  28     123.461  72.826  14.829  1.00 38.64      PS16
ATOM  48208  NH2 ARG P  28     123.296  70.927  16.105  1.00 38.64      PS16
ATOM  48209  C   ARG P  28     120.314  73.277   9.944  1.00 53.70      PS16
ATOM  48210  O   ARG P  28     119.391  74.095   9.954  1.00 53.70      PS16
ATOM  48211  N   ASP P  29     121.577  73.623   9.744  1.00 36.07      PS16
ATOM  48212  CA  ASP P  29     121.941  75.018   9.623  1.00 36.07      PS16
ATOM  48213  CB  ASP P  29     123.219  75.274  10.420  1.00 73.05      PS16
ATOM  48214  CG  ASP P  29     123.032  75.023  11.912  1.00 73.05      PS16
ATOM  48215  OD1 ASP P  29     124.040  75.000  12.655  1.00 73.05      PS16
ATOM  48216  OD2 ASP P  29     121.872  74.857  12.347  1.00 73.05      PS16
ATOM  48217  C   ASP P  29     122.118  75.433   8.178  1.00 36.07      PS16
ATOM  48218  O   ASP P  29     122.670  76.500   7.891  1.00 36.07      PS16
ATOM  48219  N   GLY P  30     121.624  74.591   7.272  1.00 40.02      PS16
ATOM  48220  CA  GLY P  30     121.735  74.864   5.848  1.00 40.02      PS16
ATOM  48221  C   GLY P  30     120.730  75.833   5.247  1.00 40.02      PS16
ATOM  48222  O   GLY P  30     119.996  76.522   5.966  1.00 40.02      PS16
ATOM  48223  N   LYS P  31     120.693  75.869   3.917  1.00 32.68      PS16
ATOM  48224  CA  LYS P  31     119.796  76.762   3.190  1.00 32.68      PS16
ATOM  48225  CB  LYS P  31     120.022  76.630   1.681  1.00 75.26      PS16
ATOM  48226  CG  LYS P  31     119.002  77.377   0.827  1.00 75.26      PS16
ATOM  48227  CD  LYS P  31     119.645  78.015  -0.403  1.00 75.26      PS16
ATOM  48228  CE  LYS P  31     120.350  76.990  -1.289  1.00 75.26      PS16
ATOM  48229  NZ  LYS P  31     121.164  77.615  -2.392  1.00 75.26      PS16
ATOM  48230  C   LYS P  31     118.324  76.555   3.504  1.00 32.68      PS16
ATOM  48231  O   LYS P  31     117.740  75.549   3.148  1.00 32.68      PS16
ATOM  48232  N   TYR P  32     117.708  77.505   4.182  1.00 34.47      PS16
ATOM  48233  CA  TYR P  32     116.305  77.345   4.472  1.00 34.47      PS16
ATOM  48234  CB  TYR P  32     115.984  77.868   5.860  1.00 47.82      PS16
ATOM  48235  CG  TYR P  32     116.513  79.240   6.213  1.00 47.82      PS16
ATOM  48236  CD1 TYR P  32     117.642  79.392   7.034  1.00 47.82      PS16
ATOM  48237  CE1 TYR P  32     118.035  80.645   7.504  1.00 47.82      PS16
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ATOM	48238	CD2	TYR	P	32	115.808	80.379	5.856	1.00	47.82	PS16
ATOM	48239	CE2	TYR	P	32	116.191	81.634	6.319	1.00	47.82	PS16
ATOM	48240	CZ	TYR	P	32	117.296	81.762	7.146	1.00	47.82	PS16
ATOM	48241	OH	TYR	P	32	117.597	83.012	7.634	1.00	47.82	PS16
ATOM	48242	C	TYR	P	32	115.467	78.042	3.413	1.00	34.47	PS16
ATOM	48243	O	TYR	P	32	115.988	78.783	2.588	1.00	34.47	PS16
ATOM	48244	N	ILE	P	33	114.170	77.785	3.421	1.00	37.58	PS16
ATOM	48245	CA	ILE	P	33	113.279	78.373	2.434	1.00	37.58	PS16
ATOM	48246	CB	ILE	P	33	112.048	77.500	2.231	1.00	22.35	PS16
ATOM	48247	CG2	ILE	P	33	111.239	78.025	1.083	1.00	22.35	PS16
ATOM	48248	CG1	ILE	P	33	112.484	76.048	2.010	1.00	22.35	PS16
ATOM	48249	CD1	ILE	P	33	111.376	75.122	1.591	1.00	22.35	PS16
ATOM	48250	C	ILE	P	33	112.794	79.735	2.872	1.00	37.58	PS16
ATOM	48251	O	ILE	P	33	112.615	80.647	2.063	1.00	37.58	PS16
ATOM	48252	N	GLU	P	34	112.576	79.861	4.169	1.00	40.68	PS16
ATOM	48253	CA	GLU	P	34	112.084	81.092	4.727	1.00	40.68	PS16
ATOM	48254	CB	GLU	P	34	110.598	81.210	4.429	1.00	65.50	PS16
ATOM	48255	CG	GLU	P	34	110.011	82.539	4.794	1.00	65.50	PS16
ATOM	48256	CD	GLU	P	34	108.556	82.656	4.392	1.00	65.50	PS16
ATOM	48257	OE1	GLU	P	34	108.219	82.333	3.225	1.00	65.50	PS16
ATOM	48258	OE2	GLU	P	34	107.754	83.083	5.249	1.00	65.50	PS16
ATOM	48259	C	GLU	P	34	112.308	81.050	6.220	1.00	40.68	PS16
ATOM	48260	O	GLU	P	34	112.289	79.984	6.828	1.00	40.68	PS16
ATOM	48261	N	LYS	P	35	112.562	82.204	6.812	1.00	28.71	PS16
ATOM	48262	CA	LYS	P	35	112.734	82.276	8.245	1.00	28.71	PS16
ATOM	48263	CB	LYS	P	35	113.767	83.334	8.600	1.00	67.87	PS16
ATOM	48264	CG	LYS	P	35	113.938	83.585	10.075	1.00	67.87	PS16
ATOM	48265	CD	LYS	P	35	114.930	84.720	10.274	1.00	67.87	PS16
ATOM	48266	CE	LYS	P	35	114.989	85.203	11.719	1.00	67.87	PS16
ATOM	48267	NZ	LYS	P	35	115.928	86.357	11.904	1.00	67.87	PS16
ATOM	48268	C	LYS	P	35	111.343	82.732	8.629	1.00	28.71	PS16
ATOM	48269	O	LYS	P	35	110.764	83.571	7.939	1.00	28.71	PS16
ATOM	48270	N	ILE	P	36	110.766	82.161	9.678	1.00	43.79	PS16
ATOM	48271	CA	ILE	P	36	109.435	82.592	10.064	1.00	43.79	PS16
ATOM	48272	CB	ILE	P	36	108.345	81.565	9.684	1.00	41.13	PS16
ATOM	48273	CG2	ILE	P	36	108.145	81.539	8.173	1.00	41.13	PS16
ATOM	48274	CG1	ILE	P	36	108.717	80.188	10.213	1.00	41.13	PS16
ATOM	48275	CD1	ILE	P	36	107.719	79.127	9.837	1.00	41.13	PS16
ATOM	48276	C	ILE	P	36	109.364	82.877	11.537	1.00	43.79	PS16
ATOM	48277	O	ILE	P	36	108.294	82.935	12.114	1.00	43.79	PS16
ATOM	48278	N	GLY	P	37	110.516	83.067	12.150	1.00	38.57	PS16
ATOM	48279	CA	GLY	P	37	110.525	83.390	13.558	1.00	38.57	PS16
ATOM	48280	C	GLY	P	37	111.890	83.105	14.120	1.00	38.57	PS16
ATOM	48281	O	GLY	P	37	112.810	82.745	13.382	1.00	38.57	PS16
ATOM	48282	N	TYR	P	38	112.032	83.287	15.423	1.00	37.24	PS16
ATOM	48283	CA	TYR	P	38	113.284	82.989	16.077	1.00	37.24	PS16
ATOM	48284	CB	TYR	P	38	114.246	84.164	15.968	1.00	49.22	PS16
ATOM	48285	CG	TYR	P	38	113.695	85.461	16.477	1.00	49.22	PS16
ATOM	48286	CD1	TYR	P	38	113.816	85.812	17.816	1.00	49.22	PS16
ATOM	48287	CE1	TYR	P	38	113.308	87.011	18.291	1.00	49.22	PS16
ATOM	48288	CD2	TYR	P	38	113.047	86.344	15.621	1.00	49.22	PS16
ATOM	48289	CE2	TYR	P	38	112.533	87.547	16.087	1.00	49.22	PS16
ATOM	48290	CZ	TYR	P	38	112.667	87.873	17.423	1.00	49.22	PS16
ATOM	48291	OH	TYR	P	38	112.152	89.063	17.895	1.00	49.22	PS16
ATOM	48292	C	TYR	P	38	112.918	82.671	17.514	1.00	37.24	PS16
ATOM	48293	O	TYR	P	38	111.808	82.973	17.946	1.00	37.24	PS16
ATOM	48294	N	TYR	P	39	113.832	82.047	18.246	1.00	38.55	PS16
ATOM	48295	CA	TYR	P	39	113.557	81.656	19.611	1.00	38.55	PS16
ATOM	48296	CB	TYR	P	39	112.872	80.299	19.576	1.00	46.40	PS16
ATOM	48297	CG	TYR	P	39	113.135	79.410	20.766	1.00	46.40	PS16
ATOM	48298	CD1	TYR	P	39	112.776	79.811	22.047	1.00	46.40	PS16
ATOM	48299	CE1	TYR	P	39	112.946	78.974	23.124	1.00	46.40	PS16
ATOM	48300	CD2	TYR	P	39	113.683	78.142	20.600	1.00	46.40	PS16
ATOM	48301	CE2	TYR	P	39	113.857	77.301	21.669	1.00	46.40	PS16
ATOM	48302	CZ	TYR	P	39	113.483	77.720	22.931	1.00	46.40	PS16
ATOM	48303	OH	TYR	P	39	113.622	76.886	24.014	1.00	46.40	PS16
ATOM	48304	C	TYR	P	39	114.831	81.591	20.437	1.00	38.55	PS16
ATOM	48305	O	TYR	P	39	115.859	81.105	19.956	1.00	38.55	PS16
ATOM	48306	N	ASP	P	40	114.756	82.085	21.676	1.00	47.18	PS16
ATOM	48307	CA	ASP	P	40	115.888	82.100	22.608	1.00	47.18	PS16
ATOM	48308	CB	ASP	P	40	116.213	83.540	23.012	1.00	61.00	PS16
ATOM	48309	CG	ASP	P	40	117.209	83.628	24.163	1.00	61.00	PS16
ATOM	48310	OD1	ASP	P	40	117.577	84.767	24.517	1.00	61.00	PS16
ATOM	48311	OD2	ASP	P	40	117.619	82.585	24.723	1.00	61.00	PS16
ATOM	48312	C	ASP	P	40	115.544	81.261	23.840	1.00	47.18	PS16
ATOM	48313	O	ASP	P	40	114.824	81.706	24.735	1.00	47.18	PS16
ATOM	48314	N	PRO	P	41	116.092	80.039	23.909	1.00	43.14	PS16

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ATOM  48315  CD  PRO P  41     117.229  79.623  23.074  1.00 81.13      PS16
ATOM  48316  CA  PRO P  41     115.881  79.076  24.994  1.00 43.14      PS16
ATOM  48317  CB  PRO P  41     116.912  77.987  24.707  1.00 81.13      PS16
ATOM  48318  CG  PRO P  41     117.215  78.144  23.261  1.00 81.13      PS16
ATOM  48319  C   PRO P  41     116.090  79.658  26.376  1.00 43.14      PS16
ATOM  48320  O   PRO P  41     115.356  79.348  27.312  1.00 43.14      PS16
ATOM  48321  N   ARG P  42     117.106  80.504  26.496  1.00 58.82      PS16
ATOM  48322  CA  ARG P  42     117.450  81.084  27.774  1.00 58.82      PS16
ATOM  48323  CB  ARG P  42     118.950  81.268  27.842  1.00 58.84      PS16
ATOM  48324  CG  ARG P  42     119.668  79.998  27.480  1.00 58.84      PS16
ATOM  48325  CD  ARG P  42     121.144  80.150  27.658  1.00 58.84      PS16
ATOM  48326  NE  ARG P  42     121.655  81.264  26.874  1.00 58.84      PS16
ATOM  48327  CZ  ARG P  42     122.768  81.916  27.178  1.00 58.84      PS16
ATOM  48328  NH1 ARG P  42     123.469  81.554  28.246  1.00 58.84      PS16
ATOM  48329  NH2 ARG P  42     123.174  82.925  26.423  1.00 58.84      PS16
ATOM  48330  C   ARG P  42     116.747  82.375  28.081  1.00 58.82      PS16
ATOM  48331  O   ARG P  42     117.062  83.029  29.066  1.00 58.82      PS16
ATOM  48332  N   LYS P  43     115.779  82.736  27.252  1.00 50.84      PS16
ATOM  48333  CA  LYS P  43     115.037  83.969  27.472  1.00 50.84      PS16
ATOM  48334  CB  LYS P  43     113.881  83.737  28.452  1.00 45.59      PS16
ATOM  48335  CG  LYS P  43     113.022  82.500  28.205  1.00 45.59      PS16
ATOM  48336  CD  LYS P  43     113.470  81.331  29.065  1.00 45.59      PS16
ATOM  48337  CE  LYS P  43     112.510  80.167  28.935  1.00 45.59      PS16
ATOM  48338  NZ  LYS P  43     112.902  79.034  29.824  1.00 45.59      PS16
ATOM  48339  C   LYS P  43     115.972  85.018  28.069  1.00 50.84      PS16
ATOM  48340  O   LYS P  43     115.759  85.461  29.196  1.00 50.84      PS16
ATOM  48341  N   THR P  44     117.017  85.399  27.341  1.00 50.37      PS16
ATOM  48342  CA  THR P  44     117.943  86.398  27.859  1.00 50.37      PS16
ATOM  48343  CB  THR P  44     119.300  86.371  27.113  1.00 66.21      PS16
ATOM  48344  OG1 THR P  44     119.084  86.424  25.698  1.00 66.21      PS16
ATOM  48345  CG2 THR P  44     120.064  85.110  27.454  1.00 66.21      PS16
ATOM  48346  C   THR P  44     117.327  87.788  27.757  1.00 50.37      PS16
ATOM  48347  O   THR P  44     117.735  88.710  28.466  1.00 50.37      PS16
ATOM  48348  N   THR P  45     116.339  87.930  26.875  1.00 65.38      PS16
ATOM  48349  CA  THR P  45     115.650  89.201  26.691  1.00 65.38      PS16
ATOM  48350  CB  THR P  45     116.037  89.904  25.371  1.00 40.85      PS16
ATOM  48351  OG1 THR P  45     115.288  89.346  24.281  1.00 40.85      PS16
ATOM  48352  CG2 THR P  45     117.526  89.763  25.115  1.00 40.85      PS16
ATOM  48353  C   THR P  45     114.152  88.956  26.662  1.00 65.38      PS16
ATOM  48354  O   THR P  45     113.699  87.864  26.331  1.00 65.38      PS16
ATOM  48355  N   PRO P  46     113.363  89.990  26.979  1.00 78.11      PS16
ATOM  48356  CD  PRO P  46     113.792  91.397  27.025  1.00 54.60      PS16
ATOM  48357  CA  PRO P  46     111.904  89.915  27.006  1.00 78.11      PS16
ATOM  48358  CB  PRO P  46     111.504  91.343  27.303  1.00 54.60      PS16
ATOM  48359  CG  PRO P  46     112.554  92.109  26.571  1.00 54.60      PS16
ATOM  48360  C   PRO P  46     111.294  89.438  25.711  1.00 78.11      PS16
ATOM  48361  O   PRO P  46     110.146  89.003  25.694  1.00 78.11      PS16
ATOM  48362  N   ASP P  47     112.047  89.527  24.623  1.00 59.06      PS16
ATOM  48363  CA  ASP P  47     111.513  89.109  23.340  1.00 59.06      PS16
ATOM  48364  CB  ASP P  47     111.695  90.224  22.311  1.00173.56      PS16
ATOM  48365  CG  ASP P  47     110.856  90.007  21.071  1.00173.56      PS16
ATOM  48366  OD1 ASP P  47     110.964  90.820  20.128  1.00173.56      PS16
ATOM  48367  OD2 ASP P  47     110.085  89.023  21.043  1.00173.56      PS16
ATOM  48368  C   ASP P  47     112.197  87.849  22.857  1.00 59.06      PS16
ATOM  48369  O   ASP P  47     112.755  87.830  21.766  1.00 59.06      PS16
ATOM  48370  N   TRP P  48     112.144  86.790  23.661  1.00 59.98      PS16
ATOM  48371  CA  TRP P  48     112.796  85.537  23.295  1.00 59.98      PS16
ATOM  48372  CB  TRP P  48     113.222  84.756  24.540  1.00 63.56      PS16
ATOM  48373  CG  TRP P  48     112.135  84.554  25.531  1.00 63.56      PS16
ATOM  48374  CD2 TRP P  48     111.209  83.471  25.572  1.00 63.56      PS16
ATOM  48375  CE2 TRP P  48     110.368  83.686  26.679  1.00 63.56      PS16
ATOM  48376  CE3 TRP P  48     111.007  82.335  24.777  1.00 63.56      PS16
ATOM  48377  CD1 TRP P  48     111.829  85.361  26.580  1.00 63.56      PS16
ATOM  48378  NE1 TRP P  48     110.771  84.849  27.276  1.00 63.56      PS16
ATOM  48379  CZ2 TRP P  48     109.337  82.808  27.019  1.00 63.56      PS16
ATOM  48380  CZ3 TRP P  48     109.982  81.460  25.110  1.00 63.56      PS16
ATOM  48381  CH2 TRP P  48     109.159  81.703  26.224  1.00 63.56      PS16
ATOM  48382  C   TRP P  48     112.013  84.617  22.379  1.00 59.98      PS16
ATOM  48383  O   TRP P  48     112.446  83.504  22.108  1.00 59.98      PS16
ATOM  48384  N   LEU P  49     110.862  85.057  21.904  1.00 43.87      PS16
ATOM  48385  CA  LEU P  49     110.118  84.221  20.988  1.00 43.87      PS16
ATOM  48386  CB  LEU P  49     109.262  83.197  21.722  1.00 41.64      PS16
ATOM  48387  CG  LEU P  49     108.479  82.350  20.706  1.00 41.64      PS16
ATOM  48388  CD1 LEU P  49     109.463  81.450  19.948  1.00 41.64      PS16
ATOM  48389  CD2 LEU P  49     107.408  81.515  21.399  1.00 41.64      PS16
ATOM  48390  C   LEU P  49     109.218  85.036  20.104  1.00 43.87      PS16
ATOM  48391  O   LEU P  49     108.297  85.680  20.585  1.00 43.87      PS16
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ATOM  48392  N   LYS P  50     109.483  85.008  18.806  1.00 44.68      PS16
ATOM  48393  CA  LYS P  50     108.672  85.731  17.850  1.00 44.68      PS16
ATOM  48394  CB  LYS P  50     109.420  86.956  17.322  1.00101.06      PS16
ATOM  48395  CG  LYS P  50     108.747  87.626  16.134  1.00101.06      PS16
ATOM  48396  CD  LYS P  50     109.512  88.862  15.680  1.00101.06      PS16
ATOM  48397  CE  LYS P  50     109.133  89.291  14.258  1.00101.06      PS16
ATOM  48398  NZ  LYS P  50     109.631  88.357  13.194  1.00101.06      PS16
ATOM  48399  C   LYS P  50     108.387  84.759  16.729  1.00 44.68      PS16
ATOM  48400  O   LYS P  50     109.264  83.973  16.341  1.00 44.68      PS16
ATOM  48401  N   VAL P  51     107.161  84.805  16.218  1.00 41.92      PS16
ATOM  48402  CA  VAL P  51     106.731  83.922  15.137  1.00 41.92      PS16
ATOM  48403  CB  VAL P  51     105.908  82.747  15.673  1.00 48.27      PS16
ATOM  48404  CG1 VAL P  51     105.242  82.012  14.516  1.00 48.27      PS16
ATOM  48405  CG2 VAL P  51     106.796  81.823  16.489  1.00 48.27      PS16
ATOM  48406  C   VAL P  51     105.829  84.686  14.214  1.00 41.92      PS16
ATOM  48407  O   VAL P  51     105.108  85.555  14.665  1.00 41.92      PS16
ATOM  48408  N   ASP P  52     105.854  84.375  12.928  1.00 42.81      PS16
ATOM  48409  CA  ASP P  52     104.970  85.066  12.004  1.00 42.81      PS16
ATOM  48410  CB  ASP P  52     105.644  85.313  10.661  1.00 76.89      PS16
ATOM  48411  CG  ASP P  52     104.737  86.055   9.693  1.00 76.89      PS16
ATOM  48412  OD1 ASP P  52     103.517  85.762   9.667  1.00 76.89      PS16
ATOM  48413  OD2 ASP P  52     105.243  86.927   8.954  1.00 76.89      PS16
ATOM  48414  C   ASP P  52     103.756  84.181  11.791  1.00 42.81      PS16
ATOM  48415  O   ASP P  52     103.682  83.441  10.803  1.00 42.81      PS16
ATOM  48416  N   VAL P  53     102.791  84.269  12.699  1.00 43.73      PS16
ATOM  48417  CA  VAL P  53     101.611  83.422  12.591  1.00 43.73      PS16
ATOM  48418  CB  VAL P  53     100.514  83.842  13.592  1.00 42.42      PS16
ATOM  48419  CG1 VAL P  53     101.162  84.363  14.861  1.00 42.42      PS16
ATOM  48420  CG2 VAL P  53      99.589  84.851  12.976  1.00 42.42      PS16
ATOM  48421  C   VAL P  53     101.001  83.325  11.195  1.00 43.73      PS16
ATOM  48422  O   VAL P  53     100.624  82.240  10.769  1.00 43.73      PS16
ATOM  48423  N   GLU P  54     100.922  84.437  10.475  1.00 34.00      PS16
ATOM  48424  CA  GLU P  54     100.332  84.418   9.146  1.00 34.00      PS16
ATOM  48425  CB  GLU P  54     100.283  85.829   8.558  1.00124.35      PS16
ATOM  48426  CG  GLU P  54      99.763  85.875   7.132  1.00124.35      PS16
ATOM  48427  CD  GLU P  54      98.692  84.832   6.881  1.00124.35      PS16
ATOM  48428  OE1 GLU P  54      97.740  84.749   7.686  1.00124.35      PS16
ATOM  48429  OE2 GLU P  54      98.803  84.093   5.879  1.00124.35      PS16
ATOM  48430  C   GLU P  54     101.109  83.506   8.223  1.00 34.00      PS16
ATOM  48431  O   GLU P  54     100.532  82.663   7.534  1.00 34.00      PS16
ATOM  48432  N   ARG P  55     102.424  83.672   8.210  1.00 52.57      PS16
ATOM  48433  CA  ARG P  55     103.274  82.860   7.357  1.00 52.57      PS16
ATOM  48434  CB  ARG P  55     104.704  83.386   7.416  1.00 54.08      PS16
ATOM  48435  CG  ARG P  55     104.888  84.760   6.797  1.00 54.08      PS16
ATOM  48436  CD  ARG P  55     105.221  84.650   5.338  1.00 54.08      PS16
ATOM  48437  NE  ARG P  55     104.150  84.024   4.584  1.00 54.08      PS16
ATOM  48438  CZ  ARG P  55     104.351  83.298   3.490  1.00 54.08      PS16
ATOM  48439  NH1 ARG P  55     105.588  83.111   3.041  1.00 54.08      PS16
ATOM  48440  NH2 ARG P  55     103.320  82.766   2.839  1.00 54.08      PS16
ATOM  48441  C   ARG P  55     103.232  81.391   7.781  1.00 52.57      PS16
ATOM  48442  O   ARG P  55     103.133  80.492   6.938  1.00 52.57      PS16
ATOM  48443  N   ALA P  56     103.320  81.150   9.088  1.00 35.96      PS16
ATOM  48444  CA  ALA P  56     103.273  79.789   9.592  1.00 35.96      PS16
ATOM  48445  CB  ALA P  56     103.278  79.774  11.100  1.00 17.28      PS16
ATOM  48446  C   ALA P  56     101.988  79.192   9.088  1.00 35.96      PS16
ATOM  48447  O   ALA P  56     101.981  78.130   8.476  1.00 35.96      PS16
ATOM  48448  N   ARG P  57     100.889  79.887   9.329  1.00 35.27      PS16
ATOM  48449  CA  ARG P  57      99.616  79.372   8.885  1.00 35.27      PS16
ATOM  48450  CB  ARG P  57      98.514  80.408   9.070  1.00100.78      PS16
ATOM  48451  CG  ARG P  57      98.138  80.612  10.520  1.00100.78      PS16
ATOM  48452  CD  ARG P  57      97.072  81.668  10.649  1.00100.78      PS16
ATOM  48453  NE  ARG P  57      96.799  81.990  12.042  1.00100.78      PS16
ATOM  48454  CZ  ARG P  57      96.320  81.124  12.926  1.00100.78      PS16
ATOM  48455  NH1 ARG P  57      96.061  79.875  12.558  1.00100.78      PS16
ATOM  48456  NH2 ARG P  57      96.097  81.510  14.176  1.00100.78      PS16
ATOM  48457  C   ARG P  57      99.731  78.953   7.435  1.00 35.27      PS16
ATOM  48458  O   ARG P  57      99.240  77.897   7.046  1.00 35.27      PS16
ATOM  48459  N   TYR P  58     100.406  79.759   6.632  1.00 47.75      PS16
ATOM  48460  CA  TYR P  58     100.563  79.396   5.236  1.00 47.75      PS16
ATOM  48461  CB  TYR P  58     101.384  80.427   4.489  1.00 39.71      PS16
ATOM  48462  CG  TYR P  58     101.744  79.940   3.118  1.00 39.71      PS16
ATOM  48463  CD1 TYR P  58     103.052  79.571   2.806  1.00 39.71      PS16
ATOM  48464  CE1 TYR P  58     103.382  79.130   1.527  1.00 39.71      PS16
ATOM  48465  CD2 TYR P  58     100.773  79.848   2.130  1.00 39.71      PS16
ATOM  48466  CE2 TYR P  58     101.082  79.414   0.861  1.00 39.71      PS16
ATOM  48467  CZ  TYR P  58     102.385  79.060   0.556  1.00 39.71      PS16
ATOM  48468  OH  TYR P  58     102.680  78.671  -0.734  1.00 39.71      PS16
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ATOM	48469	C	TYR	P	58	101.256	78.054	5.063	1.00	47.75	PS16
ATOM	48470	O	TYR	P	58	100.671	77.099	4.563	1.00	47.75	PS16
ATOM	48471	N	TRP	P	59	102.520	78.002	5.462	1.00	48.10	PS16
ATOM	48472	CA	TRP	P	59	103.297	76.788	5.330	1.00	48.10	PS16
ATOM	48473	CB	TRP	P	59	104.660	76.975	5.997	1.00	37.01	PS16
ATOM	48474	CG	TRP	P	59	105.558	77.805	5.124	1.00	37.01	PS16
ATOM	48475	CD2	TRP	P	59	106.091	77.421	3.851	1.00	37.01	PS16
ATOM	48476	CE2	TRP	P	59	106.754	78.545	3.316	1.00	37.01	PS16
ATOM	48477	CE3	TRP	P	59	106.065	76.235	3.105	1.00	37.01	PS16
ATOM	48478	CD1	TRP	P	59	105.922	79.117	5.310	1.00	37.01	PS16
ATOM	48479	NE1	TRP	P	59	106.636	79.567	4.225	1.00	37.01	PS16
ATOM	48480	CZ2	TRP	P	59	107.386	78.515	2.073	1.00	37.01	PS16
ATOM	48481	CZ3	TRP	P	59	106.696	76.211	1.864	1.00	37.01	PS16
ATOM	48482	CH2	TRP	P	59	107.345	77.343	1.367	1.00	37.01	PS16
ATOM	48483	C	TRP	P	59	102.583	75.551	5.848	1.00	48.10	PS16
ATOM	48484	O	TRP	P	59	102.609	74.501	5.202	1.00	48.10	PS16
ATOM	48485	N	LEU	P	60	101.935	75.656	6.998	1.00	43.43	PS16
ATOM	48486	CA	LEU	P	60	101.220	74.502	7.496	1.00	43.43	PS16
ATOM	48487	CB	LEU	P	60	100.562	74.803	8.830	1.00	47.03	PS16
ATOM	48488	CG	LEU	P	60	101.496	74.784	10.035	1.00	47.03	PS16
ATOM	48489	CD1	LEU	P	60	100.720	75.116	11.300	1.00	47.03	PS16
ATOM	48490	CD2	LEU	P	60	102.118	73.412	10.153	1.00	47.03	PS16
ATOM	48491	C	LEU	P	60	100.161	74.174	6.464	1.00	43.43	PS16
ATOM	48492	O	LEU	P	60	100.084	73.058	5.965	1.00	43.43	PS16
ATOM	48493	N	SER	P	61	99.354	75.167	6.122	1.00	49.46	PS16
ATOM	48494	CA	SER	P	61	98.296	74.973	5.142	1.00	49.46	PS16
ATOM	48495	CB	SER	P	61	97.680	76.310	4.754	1.00	36.80	PS16
ATOM	48496	OG	SER	P	61	98.410	76.884	3.681	1.00	36.80	PS16
ATOM	48497	C	SER	P	61	98.821	74.320	3.873	1.00	49.46	PS16
ATOM	48498	O	SER	P	61	98.073	73.671	3.148	1.00	49.46	PS16
ATOM	48499	N	VAL	P	62	100.105	74.489	3.594	1.00	44.23	PS16
ATOM	48500	CA	VAL	P	62	100.646	73.919	2.374	1.00	44.23	PS16
ATOM	48501	CB	VAL	P	62	101.507	74.933	1.648	1.00	53.51	PS16
ATOM	48502	CG1	VAL	P	62	101.586	74.576	0.186	1.00	53.51	PS16
ATOM	48503	CG2	VAL	P	62	100.907	76.310	1.822	1.00	53.51	PS16
ATOM	48504	C	VAL	P	62	101.420	72.619	2.550	1.00	44.23	PS16
ATOM	48505	O	VAL	P	62	101.931	72.050	1.578	1.00	44.23	PS16
ATOM	48506	N	GLY	P	63	101.508	72.139	3.786	1.00	40.36	PS16
ATOM	48507	CA	GLY	P	63	102.180	70.876	3.996	1.00	40.36	PS16
ATOM	48508	C	GLY	P	63	103.316	70.860	4.978	1.00	40.36	PS16
ATOM	48509	O	GLY	P	63	103.593	69.826	5.569	1.00	40.36	PS16
ATOM	48510	N	ALA	P	64	103.992	71.985	5.155	1.00	48.79	PS16
ATOM	48511	CA	ALA	P	64	105.101	72.012	6.088	1.00	48.79	PS16
ATOM	48512	CB	ALA	P	64	105.431	73.424	6.460	1.00	30.44	PS16
ATOM	48513	C	ALA	P	64	104.708	71.227	7.325	1.00	48.79	PS16
ATOM	48514	O	ALA	P	64	103.596	71.347	7.830	1.00	48.79	PS16
ATOM	48515	N	GLN	P	65	105.614	70.392	7.792	1.00	32.35	PS16
ATOM	48516	CA	GLN	P	65	105.345	69.614	8.977	1.00	32.35	PS16
ATOM	48517	CB	GLN	P	65	105.618	68.150	8.693	1.00	37.92	PS16
ATOM	48518	CG	GLN	P	65	104.660	67.218	9.372	1.00	37.92	PS16
ATOM	48519	CD	GLN	P	65	103.331	67.194	8.682	1.00	37.92	PS16
ATOM	48520	OE1	GLN	P	65	103.268	67.241	7.456	1.00	37.92	PS16
ATOM	48521	NE2	GLN	P	65	102.254	67.103	9.454	1.00	37.92	PS16
ATOM	48522	C	GLN	P	65	106.306	70.146	10.038	1.00	32.35	PS16
ATOM	48523	O	GLN	P	65	107.519	70.192	9.828	1.00	32.35	PS16
ATOM	48524	N	PRO	P	66	105.785	70.551	11.197	1.00	35.01	PS16
ATOM	48525	CD	PRO	P	66	104.388	70.814	11.570	1.00	35.67	PS16
ATOM	48526	CA	PRO	P	66	106.704	71.074	12.209	1.00	35.01	PS16
ATOM	48527	CB	PRO	P	66	105.851	72.097	12.935	1.00	35.67	PS16
ATOM	48528	CG	PRO	P	66	104.536	71.396	12.974	1.00	35.67	PS16
ATOM	48529	C	PRO	P	66	107.281	70.062	13.175	1.00	35.01	PS16
ATOM	48530	O	PRO	P	66	106.648	69.059	13.491	1.00	35.01	PS16
ATOM	48531	N	THR	P	67	108.496	70.347	13.633	1.00	49.33	PS16
ATOM	48532	CA	THR	P	67	109.176	69.531	14.624	1.00	49.33	PS16
ATOM	48533	CB	THR	P	67	110.524	70.143	15.005	1.00	56.86	PS16
ATOM	48534	OG1	THR	P	67	111.441	69.980	13.926	1.00	56.86	PS16
ATOM	48535	CG2	THR	P	67	111.075	69.498	16.270	1.00	56.86	PS16
ATOM	48536	C	THR	P	67	108.282	69.649	15.848	1.00	49.33	PS16
ATOM	48537	O	THR	P	67	107.452	70.556	15.918	1.00	49.33	PS16
ATOM	48538	N	ASP	P	68	108.441	68.765	16.825	1.00	57.68	PS16
ATOM	48539	CA	ASP	P	68	107.608	68.879	18.006	1.00	57.68	PS16
ATOM	48540	CB	ASP	P	68	107.802	67.684	18.944	1.00	95.60	PS16
ATOM	48541	CG	ASP	P	68	107.090	66.430	18.438	1.00	95.60	PS16
ATOM	48542	OD1	ASP	P	68	106.032	66.576	17.788	1.00	95.60	PS16
ATOM	48543	OD2	ASP	P	68	107.570	65.304	18.694	1.00	95.60	PS16
ATOM	48544	C	ASP	P	68	107.928	70.193	18.694	1.00	57.68	PS16
ATOM	48545	O	ASP	P	68	107.030	70.989	18.933	1.00	57.68	PS16

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ATOM  48546  N   THR P  69     109.198  70.454  18.980  1.00 46.92      PS16
ATOM  48547  CA  THR P  69     109.531  71.724  19.628  1.00 46.92      PS16
ATOM  48548  CB  THR P  69     111.063  71.964  19.749  1.00 59.06      PS16
ATOM  48549  OG1 THR P  69     111.663  70.960  20.583  1.00 59.06      PS16
ATOM  48550  CG2 THR P  69     111.326  73.342  20.352  1.00 59.06      PS16
ATOM  48551  C   THR P  69     108.947  72.854  18.785  1.00 46.92      PS16
ATOM  48552  O   THR P  69     108.252  73.732  19.286  1.00 46.92      PS16
ATOM  48553  N   ALA P  70     109.238  72.813  17.493  1.00 35.08      PS16
ATOM  48554  CA  ALA P  70     108.746  73.818  16.574  1.00 35.08      PS16
ATOM  48555  CB  ALA P  70     109.022  73.399  15.141  1.00 55.26      PS16
ATOM  48556  C   ALA P  70     107.260  73.990  16.788  1.00 35.08      PS16
ATOM  48557  O   ALA P  70     106.773  75.110  16.921  1.00 35.08      PS16
ATOM  48558  N   ARG P  71     106.532  72.882  16.831  1.00 44.06      PS16
ATOM  48559  CA  ARG P  71     105.096  72.987  17.025  1.00 44.06      PS16
ATOM  48560  CB  ARG P  71     104.429  71.613  17.065  1.00 57.95      PS16
ATOM  48561  CG  ARG P  71     103.009  71.738  17.543  1.00 57.95      PS16
ATOM  48562  CD  ARG P  71     102.234  70.453  17.544  1.00 57.95      PS16
ATOM  48563  NE  ARG P  71     101.530  70.226  16.291  1.00 57.95      PS16
ATOM  48564  CZ  ARG P  71     102.049  69.546  15.287  1.00 57.95      PS16
ATOM  48565  NH1 ARG P  71     103.271  69.040  15.416  1.00 57.95      PS16
ATOM  48566  NH2 ARG P  71     101.349  69.364  14.173  1.00 57.95      PS16
ATOM  48567  C   ARG P  71     104.807  73.729  18.321  1.00 44.06      PS16
ATOM  48568  O   ARG P  71     103.979  74.647  18.359  1.00 44.06      PS16
ATOM  48569  N   ARG P  72     105.505  73.321  19.375  1.00 42.08      PS16
ATOM  48570  CA  ARG P  72     105.365  73.916  20.695  1.00 42.08      PS16
ATOM  48571  CB  ARG P  72     106.460  73.382  21.608  1.00 49.66      PS16
ATOM  48572  CG  ARG P  72     106.283  73.743  23.050  1.00 49.66      PS16
ATOM  48573  CD  ARG P  72     107.486  73.302  23.829  1.00 49.66      PS16
ATOM  48574  NE  ARG P  72     108.056  74.425  24.562  1.00 49.66      PS16
ATOM  48575  CZ  ARG P  72     109.356  74.677  24.640  1.00 49.66      PS16
ATOM  48576  NH1 ARG P  72     110.229  73.881  24.027  1.00 49.66      PS16
ATOM  48577  NH2 ARG P  72     109.776  75.729  25.331  1.00 49.66      PS16
ATOM  48578  C   ARG P  72     105.463  75.435  20.604  1.00 42.08      PS16
ATOM  48579  O   ARG P  72     104.509  76.148  20.926  1.00 42.08      PS16
ATOM  48580  N   LEU P  73     106.623  75.920  20.163  1.00 35.54      PS16
ATOM  48581  CA  LEU P  73     106.843  77.345  20.011  1.00 35.54      PS16
ATOM  48582  CB  LEU P  73     108.185  77.600  19.330  1.00 40.11      PS16
ATOM  48583  CG  LEU P  73     109.415  77.006  20.050  1.00 40.11      PS16
ATOM  48584  CD1 LEU P  73     110.682  77.379  19.293  1.00 40.11      PS16
ATOM  48585  CD2 LEU P  73     109.521  77.510  21.493  1.00 40.11      PS16
ATOM  48586  C   LEU P  73     105.698  77.922  19.191  1.00 35.54      PS16
ATOM  48587  O   LEU P  73     104.984  78.797  19.663  1.00 35.54      PS16
ATOM  48588  N   LEU P  74     105.499  77.427  17.976  1.00 30.45      PS16
ATOM  48589  CA  LEU P  74     104.407  77.926  17.145  1.00 30.45      PS16
ATOM  48590  CB  LEU P  74     104.176  77.025  15.947  1.00 43.72      PS16
ATOM  48591  CG  LEU P  74     105.177  77.152  14.826  1.00 43.72      PS16
ATOM  48592  CD1 LEU P  74     104.642  76.405  13.630  1.00 43.72      PS16
ATOM  48593  CD2 LEU P  74     105.383  78.620  14.493  1.00 43.72      PS16
ATOM  48594  C   LEU P  74     103.087  78.024  17.890  1.00 30.45      PS16
ATOM  48595  O   LEU P  74     102.294  78.928  17.641  1.00 30.45      PS16
ATOM  48596  N   ARG P  75     102.832  77.077  18.786  1.00 42.58      PS16
ATOM  48597  CA  ARG P  75     101.575  77.080  19.531  1.00 42.58      PS16
ATOM  48598  CB  ARG P  75     101.385  75.752  20.263  1.00 62.68      PS16
ATOM  48599  CG  ARG P  75     100.002  75.576  20.867  1.00 62.68      PS16
ATOM  48600  CD  ARG P  75      99.923  74.305  21.692  1.00 62.68      PS16
ATOM  48601  NE  ARG P  75     100.174  73.113  20.885  1.00 62.68      PS16
ATOM  48602  CZ  ARG P  75      99.339  72.636  19.967  1.00 62.68      PS16
ATOM  48603  NH1 ARG P  75      98.184  73.245  19.728  1.00 62.68      PS16
ATOM  48604  NH2 ARG P  75      99.665  71.547  19.285  1.00 62.68      PS16
ATOM  48605  C   ARG P  75     101.550  78.217  20.533  1.00 42.58      PS16
ATOM  48606  O   ARG P  75     100.586  78.974  20.612  1.00 42.58      PS16
ATOM  48607  N   GLN P  76     102.621  78.314  21.303  1.00 60.73      PS16
ATOM  48608  CA  GLN P  76     102.747  79.350  22.302  1.00 60.73      PS16
ATOM  48609  CB  GLN P  76     104.113  79.247  22.968  1.00 81.89      PS16
ATOM  48610  CG  GLN P  76     104.442  80.385  23.887  1.00 81.89      PS16
ATOM  48611  CD  GLN P  76     105.746  80.163  24.614  1.00 81.89      PS16
ATOM  48612  OE1 GLN P  76     106.329  81.097  25.166  1.00 81.89      PS16
ATOM  48613  NE2 GLN P  76     106.209  78.919  24.632  1.00 81.89      PS16
ATOM  48614  C   GLN P  76     102.574  80.713  21.643  1.00 60.73      PS16
ATOM  48615  O   GLN P  76     102.335  81.716  22.314  1.00 60.73      PS16
ATOM  48616  N   ALA P  77     102.689  80.746  20.321  1.00 44.46      PS16
ATOM  48617  CA  ALA P  77     102.538  81.991  19.577  1.00 44.46      PS16
ATOM  48618  CB  ALA P  77     103.569  82.055  18.457  1.00 29.09      PS16
ATOM  48619  C   ALA P  77     101.128  82.067  19.004  1.00 44.46      PS16
ATOM  48620  O   ALA P  77     100.846  82.876  18.126  1.00 44.46      PS16
ATOM  48621  N   GLY P  78     100.255  81.202  19.507  1.00 50.35      PS16
ATOM  48622  CA  GLY P  78      98.876  81.165  19.057  1.00 50.35      PS16
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ATOM  48623  C   GLY P  78      98.720  80.882  17.580  1.00 50.35       PS16
ATOM  48624  O   GLY P  78      97.906  81.513  16.912  1.00 50.35       PS16
ATOM  48625  N   VAL P  79      99.489  79.931  17.065  1.00 47.32       PS16
ATOM  48626  CA  VAL P  79      99.409  79.607  15.652  1.00 47.32       PS16
ATOM  48627  CB  VAL P  79     100.698  78.913  15.157  1.00 61.93       PS16
ATOM  48628  CG1 VAL P  79     100.522  78.422  13.731  1.00 61.93       PS16
ATOM  48629  CG2 VAL P  79     101.844  79.883  15.199  1.00 61.93       PS16
ATOM  48630  C   VAL P  79      98.221  78.716  15.340  1.00 47.32       PS16
ATOM  48631  O   VAL P  79      97.671  78.777  14.244  1.00 47.32       PS16
ATOM  48632  N   PHE P  80      97.816  77.892  16.299  1.00 72.94       PS16
ATOM  48633  CA  PHE P  80      96.698  76.993  16.051  1.00 72.94       PS16
ATOM  48634  CB  PHE P  80      97.056  75.562  16.460  1.00 43.12       PS16
ATOM  48635  CG  PHE P  80      98.448  75.143  16.075  1.00 43.12       PS16
ATOM  48636  CD1 PHE P  80      99.517  75.347  16.951  1.00 43.12       PS16
ATOM  48637  CD2 PHE P  80      98.694  74.549  14.840  1.00 43.12       PS16
ATOM  48638  CE1 PHE P  80     100.811  74.963  16.602  1.00 43.12       PS16
ATOM  48639  CE2 PHE P  80      99.986  74.162  14.478  1.00 43.12       PS16
ATOM  48640  CZ  PHE P  80     101.044  74.370  15.362  1.00 43.12       PS16
ATOM  48641  C   PHE P  80      95.419  77.405  16.764  1.00 72.94       PS16
ATOM  48642  O   PHE P  80      94.331  76.974  16.381  1.00 72.94       PS16
ATOM  48643  N   ARG P  81      95.550  78.230  17.802  1.00 96.54       PS16
ATOM  48644  CA  ARG P  81      94.386  78.684  18.556  1.00 96.54       PS16
ATOM  48645  CB  ARG P  81      94.752  79.820  19.513  1.00 95.60       PS16
ATOM  48646  CG  ARG P  81      93.536  80.582  20.007  1.00 95.60       PS16
ATOM  48647  CD  ARG P  81      93.890  81.703  20.965  1.00 95.60       PS16
ATOM  48648  NE  ARG P  81      93.722  81.317  22.364  1.00 95.60       PS16
ATOM  48649  CZ  ARG P  81      94.568  80.547  23.041  1.00 95.60       PS16
ATOM  48650  NH1 ARG P  81      95.657  80.074  22.447  1.00 95.60       PS16
ATOM  48651  NH2 ARG P  81      94.323  80.249  24.313  1.00 95.60       PS16
ATOM  48652  C   ARG P  81      93.293  79.161  17.622  1.00 96.54       PS16
ATOM  48653  O   ARG P  81      93.523  80.008  16.762  1.00 96.54       PS16
ATOM  48654  N   GLN P  82      92.101  78.607  17.805  1.00 82.10       PS16
ATOM  48655  CA  GLN P  82      90.945  78.953  16.992  1.00 82.10       PS16
ATOM  48656  CB  GLN P  82      90.310  77.670  16.443  1.00122.16       PS16
ATOM  48657  CG  GLN P  82      90.152  76.556  17.478  1.00122.16       PS16
ATOM  48658  CD  GLN P  82      89.649  75.257  16.872  1.00122.16       PS16
ATOM  48659  OE1 GLN P  82      88.599  75.223  16.231  1.00122.16       PS16
ATOM  48660  NE2 GLN P  82      90.396  74.179  17.075  1.00122.16       PS16
ATOM  48661  C   GLN P  82      89.930  79.754  17.810  1.00 82.10       PS16
ATOM  48662  O   GLN P  82      89.233  80.620  17.276  1.00 82.10       PS16
ATOM  48663  N   GLU P  83      89.868  79.456  19.107  1.00164.04       PS16
ATOM  48664  CA  GLU P  83      88.964  80.108  20.057  1.00164.04       PS16
ATOM  48665  CB  GLU P  83      89.770  80.693  21.222  1.00153.25       PS16
ATOM  48666  CG  GLU P  83      90.682  79.687  21.924  1.00153.25       PS16
ATOM  48667  CD  GLU P  83      89.927  78.509  22.522  1.00153.25       PS16
ATOM  48668  OE1 GLU P  83      89.064  78.731  23.397  1.00153.25       PS16
ATOM  48669  OE2 GLU P  83      90.201  77.357  22.119  1.00153.25       PS16
ATOM  48670  C   GLU P  83      88.076  81.196  19.454  1.00164.04       PS16
ATOM  48671  O   GLU P  83      88.289  82.382  19.788  1.00164.04       PS16
ATOM  48672  OXT GLU P  83      87.178  80.852  18.655  1.00153.25       PS16
TER   48672       GLU P  83                                               PS16
ATOM  48673  CB  PRO Q   2     111.608  86.660 -22.651  1.00 33.04       QS17
ATOM  48674  CG  PRO Q   2     111.851  87.301 -21.299  1.00 33.04       QS17
ATOM  48675  C   PRO Q   2     112.660  84.534 -23.300  1.00 38.53       QS17
ATOM  48676  O   PRO Q   2     113.841  84.897 -23.330  1.00 38.53       QS17
ATOM  48677  N   PRO Q   2     112.197  85.017 -20.964  1.00 38.53       QS17
ATOM  48678  CD  PRO Q   2     112.677  86.315 -20.471  1.00 33.04       QS17
ATOM  48679  CA  PRO Q   2     111.688  85.176 -22.341  1.00 38.53       QS17
ATOM  48680  N   LYS Q   3     112.175  83.576 -24.078  1.00 23.68       QS17
ATOM  48681  CA  LYS Q   3     113.040  82.956 -25.044  1.00 23.68       QS17
ATOM  48682  CB  LYS Q   3     112.218  82.183 -26.062  1.00 47.15       QS17
ATOM  48683  CG  LYS Q   3     111.578  80.985 -25.458  1.00 47.15       QS17
ATOM  48684  CD  LYS Q   3     110.995  80.055 -26.498  1.00 47.15       QS17
ATOM  48685  CE  LYS Q   3     110.670  78.697 -25.859  1.00 47.15       QS17
ATOM  48686  NZ  LYS Q   3     109.845  78.838 -24.607  1.00 47.15       QS17
ATOM  48687  C   LYS Q   3     113.809  84.098 -25.714  1.00 23.68       QS17
ATOM  48688  O   LYS Q   3     113.212  85.009 -26.302  1.00 23.68       QS17
ATOM  48689  N   LYS Q   4     115.132  84.059 -25.571  1.00 28.59       QS17
ATOM  48690  CA  LYS Q   4     116.019  85.058 -26.144  1.00 28.59       QS17
ATOM  48691  CB  LYS Q   4     117.464  84.680 -25.862  1.00 38.03       QS17
ATOM  48692  CG  LYS Q   4     118.460  85.352 -26.778  1.00 38.03       QS17
ATOM  48693  CD  LYS Q   4     118.578  86.824 -26.492  1.00 38.03       QS17
ATOM  48694  CE  LYS Q   4     119.388  87.065 -25.247  1.00 38.03       QS17
ATOM  48695  NZ  LYS Q   4     119.702  88.507 -25.125  1.00 38.03       QS17
ATOM  48696  C   LYS Q   4     115.821  85.187 -27.643  1.00 28.59       QS17
ATOM  48697  O   LYS Q   4     115.606  84.193 -28.334  1.00 28.59       QS17
ATOM  48698  N   VAL Q   5     115.895  86.413 -28.151  1.00 44.39       QS17
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ATOM  48699  CA  VAL Q   5     115.727  86.631 -29.579  1.00 44.39       QS17
ATOM  48700  CB  VAL Q   5     114.427  87.374 -29.866  1.00 26.56       QS17
ATOM  48701  CG1 VAL Q   5     114.076  87.256 -31.320  1.00 26.56       QS17
ATOM  48702  CG2 VAL Q   5     113.335  86.808 -29.021  1.00 26.56       QS17
ATOM  48703  C   VAL Q   5     116.894  87.439 -30.122  1.00 44.39       QS17
ATOM  48704  O   VAL Q   5     117.241  88.486 -29.581  1.00 44.39       QS17
ATOM  48705  N   LEU Q   6     117.507  86.952 -31.189  1.00 28.70       QS17
ATOM  48706  CA  LEU Q   6     118.638  87.655 -31.760  1.00 28.70       QS17
ATOM  48707  CB  LEU Q   6     119.919  86.857 -31.593  1.00 36.70       QS17
ATOM  48708  CG  LEU Q   6     120.272  86.468 -30.169  1.00 36.70       QS17
ATOM  48709  CD1 LEU Q   6     121.583  85.731 -30.167  1.00 36.70       QS17
ATOM  48710  CD2 LEU Q   6     120.360  87.702 -29.327  1.00 36.70       QS17
ATOM  48711  C   LEU Q   6     118.397  87.869 -33.220  1.00 28.70       QS17
ATOM  48712  O   LEU Q   6     117.554  87.186 -33.820  1.00 28.70       QS17
ATOM  48713  N   THR Q   7     119.139  88.829 -33.773  1.00 59.71       QS17
ATOM  48714  CA  THR Q   7     119.055  89.195 -35.181  1.00 59.71       QS17
ATOM  48715  CB  THR Q   7     118.601  90.635 -35.366  1.00 59.66       QS17
ATOM  48716  OG1 THR Q   7     117.252  90.781 -34.914  1.00 59.66       QS17
ATOM  48717  CG2 THR Q   7     118.685  91.020 -36.821  1.00 59.66       QS17
ATOM  48718  C   THR Q   7     120.424  89.095 -35.801  1.00 59.71       QS17
ATOM  48719  O   THR Q   7     121.423  89.420 -35.164  1.00 59.71       QS17
ATOM  48720  N   GLY Q   8     120.475  88.668 -37.053  1.00 47.79       QS17
ATOM  48721  CA  GLY Q   8     121.756  88.551 -37.713  1.00 47.79       QS17
ATOM  48722  C   GLY Q   8     121.631  88.239 -39.183  1.00 47.79       QS17
ATOM  48723  O   GLY Q   8     120.533  88.128 -39.726  1.00 47.79       QS17
ATOM  48724  N   VAL Q   9     122.768  88.096 -39.838  1.00 43.06       QS17
ATOM  48725  CA  VAL Q   9     122.763  87.791 -41.245  1.00 43.06       QS17
ATOM  48726  CB  VAL Q   9     123.896  88.481 -41.949  1.00 37.92       QS17
ATOM  48727  CG1 VAL Q   9     123.861  88.156 -43.415  1.00 37.92       QS17
ATOM  48728  CG2 VAL Q   9     123.781  89.943 -41.740  1.00 37.92       QS17
ATOM  48729  C   VAL Q   9     122.939  86.314 -41.455  1.00 43.06       QS17
ATOM  48730  O   VAL Q   9     123.642  85.644 -40.684  1.00 43.06       QS17
ATOM  48731  N   VAL Q  10     122.300  85.807 -42.502  1.00 37.00       QS17
ATOM  48732  CA  VAL Q  10     122.422  84.404 -42.841  1.00 37.00       QS17
ATOM  48733  CB  VAL Q  10     121.244  83.949 -43.695  1.00 22.91       QS17
ATOM  48734  CG1 VAL Q  10     121.525  82.562 -44.264  1.00 22.91       QS17
ATOM  48735  CG2 VAL Q  10     119.977  83.955 -42.859  1.00 22.91       QS17
ATOM  48736  C   VAL Q  10     123.692  84.272 -43.661  1.00 37.00       QS17
ATOM  48737  O   VAL Q  10     123.756  84.818 -44.749  1.00 37.00       QS17
ATOM  48738  N   VAL Q  11     124.709  83.581 -43.155  1.00 39.09       QS17
ATOM  48739  CA  VAL Q  11     125.936  83.440 -43.939  1.00 39.09       QS17
ATOM  48740  CB  VAL Q  11     127.205  83.914 -43.179  1.00 25.25       QS17
ATOM  48741  CG1 VAL Q  11     127.009  85.313 -42.665  1.00 25.25       QS17
ATOM  48742  CG2 VAL Q  11     127.527  82.965 -42.047  1.00 25.25       QS17
ATOM  48743  C   VAL Q  11     126.194  82.017 -44.387  1.00 39.09       QS17
ATOM  48744  O   VAL Q  11     127.342  81.646 -44.599  1.00 39.09       QS17
ATOM  48745  N   SER Q  12     125.144  81.217 -44.538  1.00 65.46       QS17
ATOM  48746  CA  SER Q  12     125.345  79.842 -44.978  1.00 65.46       QS17
ATOM  48747  CB  SER Q  12     126.340  79.145 -44.062  1.00 47.80       QS17
ATOM  48748  OG  SER Q  12     126.498  77.794 -44.438  1.00 47.80       QS17
ATOM  48749  C   SER Q  12     124.082  79.001 -45.043  1.00 65.46       QS17
ATOM  48750  O   SER Q  12     123.436  78.771 -44.020  1.00 65.46       QS17
ATOM  48751  N   ASP Q  13     123.749  78.536 -46.248  1.00 73.30       QS17
ATOM  48752  CA  ASP Q  13     122.572  77.699 -46.468  1.00 73.30       QS17
ATOM  48753  CB  ASP Q  13     121.641  78.349 -47.493  1.00200.96       QS17
ATOM  48754  CG  ASP Q  13     120.332  77.598 -47.651  1.00200.96       QS17
ATOM  48755  OD1 ASP Q  13     119.508  78.013 -48.493  1.00200.96       QS17
ATOM  48756  OD2 ASP Q  13     120.123  76.596 -46.932  1.00200.96       QS17
ATOM  48757  C   ASP Q  13     123.042  76.344 -46.989  1.00 73.30       QS17
ATOM  48758  O   ASP Q  13     122.256  75.541 -47.495  1.00 73.30       QS17
ATOM  48759  N   LYS Q  14     124.339  76.100 -46.844  1.00 55.97       QS17
ATOM  48760  CA  LYS Q  14     124.964  74.874 -47.306  1.00 55.97       QS17
ATOM  48761  CB  LYS Q  14     126.477  74.967 -47.092  1.00160.50       QS17
ATOM  48762  CG  LYS Q  14     127.099  76.237 -47.665  1.00160.50       QS17
ATOM  48763  CD  LYS Q  14     128.481  76.501 -47.077  1.00160.50       QS17
ATOM  48764  CE  LYS Q  14     128.974  77.905 -47.416  1.00160.50       QS17
ATOM  48765  NZ  LYS Q  14     130.240  78.247 -46.705  1.00160.50       QS17
ATOM  48766  C   LYS Q  14     124.420  73.617 -46.635  1.00 55.97       QS17
ATOM  48767  O   LYS Q  14     124.751  72.501 -47.038  1.00 55.97       QS17
ATOM  48768  N   MET Q  15     123.586  73.779 -45.615  1.00 62.79       QS17
ATOM  48769  CA  MET Q  15     123.034  72.614 -44.932  1.00 62.79       QS17
ATOM  48770  CB  MET Q  15     123.270  72.708 -43.427  1.00 54.36       QS17
ATOM  48771  CG  MET Q  15     124.721  72.672 -43.001  1.00 54.36       QS17
ATOM  48772  SD  MET Q  15     124.870  72.936 -41.226  1.00 54.36       QS17
ATOM  48773  CE  MET Q  15     124.376  74.661 -41.118  1.00 54.36       QS17
ATOM  48774  C   MET Q  15     121.546  72.429 -45.176  1.00 62.79       QS17
ATOM  48775  O   MET Q  15     120.844  73.342 -45.622  1.00 62.79       QS17
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ATOM  48776  N   GLN Q  16     121.072  71.232 -44.861  1.00 45.65      QS17
ATOM  48777  CA  GLN Q  16     119.670  70.895 -45.019  1.00 45.65      QS17
ATOM  48778  CB  GLN Q  16     119.521  69.379 -45.082  1.00 72.73      QS17
ATOM  48779  CG  GLN Q  16     120.673  68.706 -45.793  1.00 72.73      QS17
ATOM  48780  CD  GLN Q  16     120.271  67.416 -46.469  1.00 72.73      QS17
ATOM  48781  OE1 GLN Q  16     119.433  67.411 -47.368  1.00 72.73      QS17
ATOM  48782  NE2 GLN Q  16     120.871  66.314 -46.046  1.00 72.73      QS17
ATOM  48783  C   GLN Q  16     118.867  71.454 -43.842  1.00 45.65      QS17
ATOM  48784  O   GLN Q  16     119.230  71.255 -42.680  1.00 45.65      QS17
ATOM  48785  N   LYS Q  17     117.785  72.164 -44.147  1.00 42.41      QS17
ATOM  48786  CA  LYS Q  17     116.927  72.745 -43.120  1.00 42.41      QS17
ATOM  48787  CB  LYS Q  17     116.129  71.644 -42.418  1.00 79.79      QS17
ATOM  48788  CG  LYS Q  17     115.267  70.771 -43.325  1.00 79.79      QS17
ATOM  48789  CD  LYS Q  17     114.325  69.907 -42.471  1.00 79.79      QS17
ATOM  48790  CE  LYS Q  17     113.428  68.988 -43.289  1.00 79.79      QS17
ATOM  48791  NZ  LYS Q  17     114.206  67.899 -43.922  1.00 79.79      QS17
ATOM  48792  C   LYS Q  17     117.714  73.530 -42.067  1.00 42.41      QS17
ATOM  48793  O   LYS Q  17     117.266  73.667 -40.927  1.00 42.41      QS17
ATOM  48794  N   THR Q  18     118.878  74.055 -42.441  1.00 59.82      QS17
ATOM  48795  CA  THR Q  18     119.697  74.794 -41.485  1.00 59.82      QS17
ATOM  48796  CB  THR Q  18     120.737  73.877 -40.853  1.00 49.71      QS17
ATOM  48797  OG1 THR Q  18     120.113  72.654 -40.437  1.00 49.71      QS17
ATOM  48798  CG2 THR Q  18     121.371  74.559 -39.663  1.00 49.71      QS17
ATOM  48799  C   THR Q  18     120.447  75.973 -42.091  1.00 59.82      QS17
ATOM  48800  O   THR Q  18     120.978  75.875 -43.197  1.00 59.82      QS17
ATOM  48801  N   VAL Q  19     120.489  77.084 -41.355  1.00 42.12      QS17
ATOM  48802  CA  VAL Q  19     121.198  78.288 -41.797  1.00 42.12      QS17
ATOM  48803  CB  VAL Q  19     120.243  79.402 -42.250  1.00 37.61      QS17
ATOM  48804  CG1 VAL Q  19     119.653  79.055 -43.583  1.00 37.61      QS17
ATOM  48805  CG2 VAL Q  19     119.148  79.597 -41.223  1.00 37.61      QS17
ATOM  48806  C   VAL Q  19     122.068  78.874 -40.698  1.00 42.12      QS17
ATOM  48807  O   VAL Q  19     121.632  79.000 -39.553  1.00 42.12      QS17
ATOM  48808  N   THR Q  20     123.301  79.223 -41.055  1.00 33.50      QS17
ATOM  48809  CA  THR Q  20     124.230  79.825 -40.114  1.00 33.50      QS17
ATOM  48810  CB  THR Q  20     125.670  79.641 -40.574  1.00 51.00      QS17
ATOM  48811  OG1 THR Q  20     125.980  78.247 -40.623  1.00 51.00      QS17
ATOM  48812  CG2 THR Q  20     126.623  80.339 -39.621  1.00 51.00      QS17
ATOM  48813  C   THR Q  20     123.950  81.327 -40.015  1.00 33.50      QS17
ATOM  48814  O   THR Q  20     124.033  82.054 -41.003  1.00 33.50      QS17
ATOM  48815  N   VAL Q  21     123.623  81.794 -38.822  1.00 32.24      QS17
ATOM  48816  CA  VAL Q  21     123.341  83.207 -38.643  1.00 32.24      QS17
ATOM  48817  CB  VAL Q  21     121.984  83.420 -37.943  1.00 11.62      QS17
ATOM  48818  CG1 VAL Q  21     121.727  84.927 -37.778  1.00 11.62      QS17
ATOM  48819  CG2 VAL Q  21     120.873  82.724 -38.726  1.00 11.62      QS17
ATOM  48820  C   VAL Q  21     124.422  83.929 -37.830  1.00 32.24      QS17
ATOM  48821  O   VAL Q  21     124.655  83.620 -36.655  1.00 32.24      QS17
ATOM  48822  N   LEU Q  22     125.080  84.895 -38.461  1.00 34.34      QS17
ATOM  48823  CA  LEU Q  22     126.116  85.650 -37.782  1.00 34.34      QS17
ATOM  48824  CB  LEU Q  22     127.092  86.236 -38.789  1.00 36.95      QS17
ATOM  48825  CG  LEU Q  22     128.250  87.003 -38.162  1.00 36.95      QS17
ATOM  48826  CD1 LEU Q  22     128.982  86.108 -37.206  1.00 36.95      QS17
ATOM  48827  CD2 LEU Q  22     129.188  87.462 -39.236  1.00 36.95      QS17
ATOM  48828  C   LEU Q  22     125.431  86.769 -37.032  1.00 34.34      QS17
ATOM  48829  O   LEU Q  22     124.817  87.623 -37.641  1.00 34.34      QS17
ATOM  48830  N   VAL Q  23     125.544  86.768 -35.711  1.00 26.07      QS17
ATOM  48831  CA  VAL Q  23     124.895  87.782 -34.888  1.00 26.07      QS17
ATOM  48832  CB  VAL Q  23     124.091  87.127 -33.775  1.00 14.56      QS17
ATOM  48833  CG1 VAL Q  23     123.426  88.164 -32.933  1.00 14.56      QS17
ATOM  48834  CG2 VAL Q  23     123.073  86.199 -34.380  1.00 14.56      QS17
ATOM  48835  C   VAL Q  23     125.889  88.728 -34.262  1.00 26.07      QS17
ATOM  48836  O   VAL Q  23     126.750  88.318 -33.497  1.00 26.07      QS17
ATOM  48837  N   GLU Q  24     125.757  90.008 -34.572  1.00 51.71      QS17
ATOM  48838  CA  GLU Q  24     126.678  90.993 -34.038  1.00 51.71      QS17
ATOM  48839  CB  GLU Q  24     126.804  92.141 -35.042  1.00 91.20      QS17
ATOM  48840  CG  GLU Q  24     128.134  92.867 -35.014  1.00 91.20      QS17
ATOM  48841  CD  GLU Q  24     128.589  93.308 -36.400  1.00 91.20      QS17
ATOM  48842  OE1 GLU Q  24     129.092  92.455 -37.162  1.00 91.20      QS17
ATOM  48843  OE2 GLU Q  24     128.436  94.504 -36.729  1.00 91.20      QS17
ATOM  48844  C   GLU Q  24     126.212  91.486 -32.662  1.00 51.71      QS17
ATOM  48845  O   GLU Q  24     125.023  91.579 -32.383  1.00 51.71      QS17
ATOM  48846  N   ARG Q  25     127.167  91.789 -31.800  1.00 39.12      QS17
ATOM  48847  CA  ARG Q  25     126.873  92.250 -30.453  1.00 39.12      QS17
ATOM  48848  CB  ARG Q  25     127.265  91.150 -29.469  1.00 48.04      QS17
ATOM  48849  CG  ARG Q  25     127.067  91.464 -28.014  1.00 48.04      QS17
ATOM  48850  CD  ARG Q  25     127.135  90.182 -27.200  1.00 48.04      QS17
ATOM  48851  NE  ARG Q  25     128.457  89.567 -27.209  1.00 48.04      QS17
ATOM  48852  CZ  ARG Q  25     129.372  89.775 -26.268  1.00 48.04      QS17
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ATOM  48853  NH1 ARG Q  25     129.105  90.583 -25.248  1.00 48.04      QS17
ATOM  48854  NH2 ARG Q  25     130.548  89.165 -26.335  1.00 48.04      QS17
ATOM  48855  C   ARG Q  25     127.705  93.501 -30.233  1.00 39.12      QS17
ATOM  48856  O   ARG Q  25     128.781  93.630 -30.801  1.00 39.12      QS17
ATOM  48857  N   GLN Q  26     127.224  94.426 -29.418  1.00 43.39      QS17
ATOM  48858  CA  GLN Q  26     127.965  95.658 -29.196  1.00 43.39      QS17
ATOM  48859  CB  GLN Q  26     127.319  96.781 -29.996  1.00106.25     QS17
ATOM  48860  CG  GLN Q  26     128.280  97.847 -30.442  1.00106.25     QS17
ATOM  48861  CD  GLN Q  26     127.621  98.871 -31.337  1.00106.25     QS17
ATOM  48862  OE1 GLN Q  26     126.750  99.629 -30.900  1.00106.25     QS17
ATOM  48863  NE2 GLN Q  26     128.029  98.897 -32.605  1.00106.25     QS17
ATOM  48864  C   GLN Q  26     127.972  96.008 -27.720  1.00 43.39      QS17
ATOM  48865  O   GLN Q  26     126.980  95.804 -27.024  1.00 43.39      QS17
ATOM  48866  N   PHE Q  27     129.075  96.551 -27.228  1.00 40.37      QS17
ATOM  48867  CA  PHE Q  27     129.126  96.878 -25.814  1.00 40.37      QS17
ATOM  48868  CB  PHE Q  27     128.889  95.616 -25.010  1.00 35.25      QS17
ATOM  48869  CG  PHE Q  27     130.006  94.649 -25.096  1.00 35.25      QS17
ATOM  48870  CD1 PHE Q  27     131.138  94.825 -24.329  1.00 35.25      QS17
ATOM  48871  CD2 PHE Q  27     129.937  93.575 -25.966  1.00 35.25      QS17
ATOM  48872  CE1 PHE Q  27     132.192  93.942 -24.422  1.00 35.25      QS17
ATOM  48873  CE2 PHE Q  27     130.985  92.682 -26.070  1.00 35.25      QS17
ATOM  48874  CZ  PHE Q  27     132.120  92.864 -25.295  1.00 35.25      QS17
ATOM  48875  C   PHE Q  27     130.419  97.512 -25.326  1.00 40.37      QS17
ATOM  48876  O   PHE Q  27     131.460  97.433 -25.978  1.00 40.37      QS17
ATOM  48877  N   PRO Q  28     130.361  98.117 -24.133  1.00 40.45      QS17
ATOM  48878  CD  PRO Q  28     129.120  98.206 -23.346  1.00 33.11      QS17
ATOM  48879  CA  PRO Q  28     131.446  98.800 -23.434  1.00 40.45      QS17
ATOM  48880  CB  PRO Q  28     130.714  99.566 -22.366  1.00 33.11      QS17
ATOM  48881  CG  PRO Q  28     129.632  98.581 -21.998  1.00 33.11      QS17
ATOM  48882  C   PRO Q  28     132.427  97.823 -22.826  1.00 40.45      QS17
ATOM  48883  O   PRO Q  28     132.035  96.845 -22.188  1.00 40.45      QS17
ATOM  48884  N   HIS Q  29     133.706  98.113 -23.011  1.00 18.30      QS17
ATOM  48885  CA  HIS Q  29     134.764  97.275 -22.494  1.00 18.30      QS17
ATOM  48886  CB  HIS Q  29     136.093  97.712 -23.111  1.00 48.94      QS17
ATOM  48887  CG  HIS Q  29     137.216  96.774 -22.829  1.00 48.94      QS17
ATOM  48888  CD2 HIS Q  29     137.803  95.835 -23.602  1.00 48.94      QS17
ATOM  48889  ND1 HIS Q  29     137.804  96.675 -21.586  1.00 48.94      QS17
ATOM  48890  CE1 HIS Q  29     138.702  95.708 -21.606  1.00 48.94      QS17
ATOM  48891  NE2 HIS Q  29     138.720  95.183 -22.817  1.00 48.94      QS17
ATOM  48892  C   HIS Q  29     134.814  97.377 -20.968  1.00 18.30      QS17
ATOM  48893  O   HIS Q  29     134.947  98.471 -20.401  1.00 18.30      QS17
ATOM  48894  N   PRO Q  30     134.718  96.233 -20.284  1.00 29.12      QS17
ATOM  48895  CD  PRO Q  30     134.941  94.892 -20.818  1.00 40.85      QS17
ATOM  48896  CA  PRO Q  30     134.746  96.195 -18.830  1.00 29.12      QS17
ATOM  48897  CB  PRO Q  30     134.982  94.727 -18.525  1.00 40.85      QS17
ATOM  48898  CG  PRO Q  30     135.712  94.263 -19.690  1.00 40.85      QS17
ATOM  48899  C   PRO Q  30     135.777  97.092 -18.180  1.00 29.12      QS17
ATOM  48900  O   PRO Q  30     135.563  97.540 -17.059  1.00 29.12      QS17
ATOM  48901  N   LEU Q  31     136.894  97.367 -18.841  1.00 40.24      QS17
ATOM  48902  CA  LEU Q  31     137.871  98.237 -18.204  1.00 40.24      QS17
ATOM  48903  CB  LEU Q  31     139.099  97.446 -17.747  1.00 32.89      QS17
ATOM  48904  CG  LEU Q  31     140.267  98.285 -17.185  1.00 32.89      QS17
ATOM  48905  CD1 LEU Q  31     139.810  99.132 -16.023  1.00 32.89      QS17
ATOM  48906  CD2 LEU Q  31     141.385  97.385 -16.724  1.00 32.89      QS17
ATOM  48907  C   LEU Q  31     138.329  99.391 -19.062  1.00 40.24      QS17
ATOM  48908  O   LEU Q  31     138.580 100.480 -18.556  1.00 40.24      QS17
ATOM  48909  N   TYR Q  32     138.428  99.174 -20.364  1.00 33.86      QS17
ATOM  48910  CA  TYR Q  32     138.918 100.235 -21.214  1.00 33.86      QS17
ATOM  48911  CB  TYR Q  32     139.871  99.626 -22.233  1.00 43.77      QS17
ATOM  48912  CG  TYR Q  32     141.090  99.084 -21.531  1.00 43.77      QS17
ATOM  48913  CD1 TYR Q  32     141.843  98.056 -22.077  1.00 43.77      QS17
ATOM  48914  CE1 TYR Q  32     142.924  97.521 -21.390  1.00 43.77      QS17
ATOM  48915  CD2 TYR Q  32     141.453  99.574 -20.284  1.00 43.77      QS17
ATOM  48916  CE2 TYR Q  32     142.518  99.051 -19.595  1.00 43.77      QS17
ATOM  48917  CZ  TYR Q  32     143.250  98.020 -20.145  1.00 43.77      QS17
ATOM  48918  OH  TYR Q  32     144.272  97.462 -19.410  1.00 43.77      QS17
ATOM  48919  C   TYR Q  32     137.912 101.162 -21.855  1.00 33.86      QS17
ATOM  48920  O   TYR Q  32     138.283 102.016 -22.656  1.00 33.86      QS17
ATOM  48921  N   GLY Q  33     136.645 101.001 -21.485  1.00 22.36      QS17
ATOM  48922  CA  GLY Q  33     135.591 101.867 -21.986  1.00 22.36      QS17
ATOM  48923  C   GLY Q  33     135.109 101.733 -23.415  1.00 22.36      QS17
ATOM  48924  O   GLY Q  33     133.963 101.358 -23.638  1.00 22.36      QS17
ATOM  48925  N   LYS Q  34     135.961 102.034 -24.388  1.00 26.52      QS17
ATOM  48926  CA  LYS Q  34     135.555 101.983 -25.786  1.00 26.52      QS17
ATOM  48927  CB  LYS Q  34     136.794 101.787 -26.679  1.00 38.38      QS17
ATOM  48928  CG  LYS Q  34     136.991 100.412 -27.271  1.00 38.38      QS17
ATOM  48929  CD  LYS Q  34     136.995 100.449 -28.799  1.00 38.38      QS17
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ATOM  48930  CE  LYS Q  34     138.010 101.455 -29.346  1.00 38.38       QS17
ATOM  48931  NZ  LYS Q  34     138.071 101.422 -30.842  1.00 38.38       QS17
ATOM  48932  C   LYS Q  34     134.470 100.930 -26.065  1.00 26.52       QS17
ATOM  48933  O   LYS Q  34     134.515  99.823 -25.554  1.00 26.52       QS17
ATOM  48934  N   VAL Q  35     133.459 101.294 -26.835  1.00 20.02       QS17
ATOM  48935  CA  VAL Q  35     132.411 100.342 -27.142  1.00 20.02       QS17
ATOM  48936  CB  VAL Q  35     131.183 101.012 -27.781  1.00  3.81       QS17
ATOM  48937  CG1 VAL Q  35     130.274  99.963 -28.355  1.00  3.81       QS17
ATOM  48938  CG2 VAL Q  35     130.428 101.825 -26.752  1.00  3.81       QS17
ATOM  48939  C   VAL Q  35     132.985  99.391 -28.157  1.00 20.02       QS17
ATOM  48940  O   VAL Q  35     133.181  99.759 -29.316  1.00 20.02       QS17
ATOM  48941  N   ILE Q  36     133.253  98.164 -27.738  1.00 33.28       QS17
ATOM  48942  CA  ILE Q  36     133.803  97.177 -28.654  1.00 33.28       QS17
ATOM  48943  CB  ILE Q  36     134.764  96.255 -27.928  1.00 36.12       QS17
ATOM  48944  CG2 ILE Q  36     135.800  97.079 -27.174  1.00 36.12       QS17
ATOM  48945  CG1 ILE Q  36     133.996  95.413 -26.930  1.00 36.12       QS17
ATOM  48946  CD1 ILE Q  36     134.885  94.489 -26.154  1.00 36.12       QS17
ATOM  48947  C   ILE Q  36     132.669  96.362 -29.257  1.00 33.28       QS17
ATOM  48948  O   ILE Q  36     131.598  96.263 -28.679  1.00 33.28       QS17
ATOM  48949  N   LYS Q  37     132.912  95.781 -30.422  1.00 41.08       QS17
ATOM  48950  CA  LYS Q  37     131.902  94.982 -31.109  1.00 41.08       QS17
ATOM  48951  CB  LYS Q  37     131.565  95.619 -32.449  1.00 48.89       QS17
ATOM  48952  CG  LYS Q  37     130.866  94.686 -33.391  1.00 48.89       QS17
ATOM  48953  CD  LYS Q  37     131.079  95.111 -34.823  1.00 48.89       QS17
ATOM  48954  CE  LYS Q  37     130.523  96.497 -35.099  1.00 48.89       QS17
ATOM  48955  NZ  LYS Q  37     130.818  96.921 -36.513  1.00 48.89       QS17
ATOM  48956  C   LYS Q  37     132.376  93.561 -31.357  1.00 41.08       QS17
ATOM  48957  O   LYS Q  37     133.381  93.346 -32.011  1.00 41.08       QS17
ATOM  48958  N   ARG Q  38     131.642  92.591 -30.842  1.00 28.56       QS17
ATOM  48959  CA  ARG Q  38     131.996  91.197 -31.023  1.00 28.56       QS17
ATOM  48960  CB  ARG Q  38     132.203  90.546 -29.658  1.00 79.43       QS17
ATOM  48961  CG  ARG Q  38     133.444  89.678 -29.548  1.00 79.43       QS17
ATOM  48962  CD  ARG Q  38     134.678  90.450 -29.067  1.00 79.43       QS17
ATOM  48963  NE  ARG Q  38     135.220  91.376 -30.060  1.00 79.43       QS17
ATOM  48964  CZ  ARG Q  38     136.356  92.056 -29.908  1.00 79.43       QS17
ATOM  48965  NH1 ARG Q  38     137.071  91.914 -28.801  1.00 79.43       QS17
ATOM  48966  NH2 ARG Q  38     136.781  92.880 -30.861  1.00 79.43       QS17
ATOM  48967  C   ARG Q  38     130.822  90.536 -31.761  1.00 28.56       QS17
ATOM  48968  O   ARG Q  38     129.742  91.126 -31.882  1.00 28.56       QS17
ATOM  48969  N   SER Q  39     131.022  89.329 -32.275  1.00 44.43       QS17
ATOM  48970  CA  SER Q  39     129.940  88.642 -32.969  1.00 44.43       QS17
ATOM  48971  CB  SER Q  39     129.974  88.971 -34.460  1.00 62.18       QS17
ATOM  48972  OG  SER Q  39     131.221  88.636 -35.031  1.00 62.18       QS17
ATOM  48973  C   SER Q  39     130.016  87.137 -32.759  1.00 44.43       QS17
ATOM  48974  O   SER Q  39     131.035  86.623 -32.310  1.00 44.43       QS17
ATOM  48975  N   LYS Q  40     128.931  86.436 -33.075  1.00 40.20       QS17
ATOM  48976  CA  LYS Q  40     128.867  84.983 -32.917  1.00 40.20       QS17
ATOM  48977  CB  LYS Q  40     128.503  84.638 -31.481  1.00 31.24       QS17
ATOM  48978  CG  LYS Q  40     127.944  83.236 -31.253  1.00 31.24       QS17
ATOM  48979  CD  LYS Q  40     127.775  83.078 -29.758  1.00 31.24       QS17
ATOM  48980  CE  LYS Q  40     127.075  81.822 -29.344  1.00 31.24       QS17
ATOM  48981  NZ  LYS Q  40     127.116  81.743 -27.854  1.00 31.24       QS17
ATOM  48982  C   LYS Q  40     127.865  84.341 -33.862  1.00 40.20       QS17
ATOM  48983  O   LYS Q  40     126.790  84.888 -34.117  1.00 40.20       QS17
ATOM  48984  N   LYS Q  41     128.219  83.166 -34.366  1.00 40.96       QS17
ATOM  48985  CA  LYS Q  41     127.363  82.448 -35.297  1.00 40.96       QS17
ATOM  48986  CB  LYS Q  41     128.201  81.732 -36.349  1.00 20.00       QS17
ATOM  48987  CG  LYS Q  41     128.958  82.654 -37.278  1.00 20.00       QS17
ATOM  48988  CD  LYS Q  41     129.685  81.836 -38.321  1.00 20.00       QS17
ATOM  48989  CE  LYS Q  41     130.510  80.776 -37.667  1.00 20.00       QS17
ATOM  48990  NZ  LYS Q  41     131.153  79.911 -38.669  1.00 20.00       QS17
ATOM  48991  C   LYS Q  41     126.472  81.423 -34.633  1.00 40.96       QS17
ATOM  48992  O   LYS Q  41     126.948  80.576 -33.892  1.00 40.96       QS17
ATOM  48993  N   TYR Q  42     125.178  81.510 -34.920  1.00 32.44       QS17
ATOM  48994  CA  TYR Q  42     124.197  80.577 -34.397  1.00 32.44       QS17
ATOM  48995  CB  TYR Q  42     123.036  81.327 -33.734  1.00 33.36       QS17
ATOM  48996  CG  TYR Q  42     123.424  82.088 -32.494  1.00 33.36       QS17
ATOM  48997  CD1 TYR Q  42     124.049  83.327 -32.577  1.00 33.36       QS17
ATOM  48998  CE1 TYR Q  42     124.478  83.993 -31.433  1.00 33.36       QS17
ATOM  48999  CD2 TYR Q  42     123.229  81.539 -31.236  1.00 33.36       QS17
ATOM  49000  CE2 TYR Q  42     123.653  82.191 -30.084  1.00 33.36       QS17
ATOM  49001  CZ  TYR Q  42     124.282  83.414 -30.187  1.00 33.36       QS17
ATOM  49002  OH  TYR Q  42     124.769  84.029 -29.048  1.00 33.36       QS17
ATOM  49003  C   TYR Q  42     123.674  79.783 -35.592  1.00 32.44       QS17
ATOM  49004  O   TYR Q  42     123.531  80.335 -36.673  1.00 32.44       QS17
ATOM  49005  N   LEU Q  43     123.435  78.488 -35.424  1.00 35.59       QS17
ATOM  49006  CA  LEU Q  43     122.881  77.694 -36.514  1.00 35.59       QS17
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ATOM  49007  CB  LEU Q  43     123.450  76.280 -36.540  1.00 26.06      QS17
ATOM  49008  CG  LEU Q  43     124.935  76.039 -36.734  1.00 26.06      QS17
ATOM  49009  CD1 LEU Q  43     125.195  74.562 -36.733  1.00 26.06      QS17
ATOM  49010  CD2 LEU Q  43     125.374  76.624 -38.045  1.00 26.06      QS17
ATOM  49011  C   LEU Q  43     121.411  77.583 -36.173  1.00 35.59      QS17
ATOM  49012  O   LEU Q  43     121.051  76.912 -35.210  1.00 35.59      QS17
ATOM  49013  N   ALA Q  44     120.551  78.241 -36.933  1.00 32.74      QS17
ATOM  49014  CA  ALA Q  44     119.137  78.141 -36.632  1.00 32.74      QS17
ATOM  49015  CB  ALA Q  44     118.491  79.481 -36.725  1.00 23.39      QS17
ATOM  49016  C   ALA Q  44     118.445  77.147 -37.549  1.00 32.74      QS17
ATOM  49017  O   ALA Q  44     118.951  76.790 -38.614  1.00 32.74      QS17
ATOM  49018  N   HIS Q  45     117.275  76.708 -37.109  1.00 29.64      QS17
ATOM  49019  CA  HIS Q  45     116.480  75.731 -37.827  1.00 29.64      QS17
ATOM  49020  CB  HIS Q  45     115.686  74.917 -36.803  1.00 44.81      QS17
ATOM  49021  CG  HIS Q  45     114.921  73.781 -37.395  1.00 44.81      QS17
ATOM  49022  CD2 HIS Q  45     113.629  73.409 -37.254  1.00 44.81      QS17
ATOM  49023  ND1 HIS Q  45     115.488  72.882 -38.270  1.00 44.81      QS17
ATOM  49024  CE1 HIS Q  45     114.576  72.007 -38.647  1.00 44.81      QS17
ATOM  49025  NE2 HIS Q  45     113.439  72.305 -38.045  1.00 44.81      QS17
ATOM  49026  C   HIS Q  45     115.552  76.341 -38.887  1.00 29.64      QS17
ATOM  49027  O   HIS Q  45     114.691  77.162 -38.581  1.00 29.64      QS17
ATOM  49028  N   ASP Q  46     115.752  75.925 -40.136  1.00 46.89      QS17
ATOM  49029  CA  ASP Q  46     114.974  76.408 -41.280  1.00 46.89      QS17
ATOM  49030  CB  ASP Q  46     115.898  77.094 -42.296  1.00 71.82      QS17
ATOM  49031  CG  ASP Q  46     115.155  77.595 -43.516  1.00 71.82      QS17
ATOM  49032  OD1 ASP Q  46     115.797  78.207 -44.402  1.00 71.82      QS17
ATOM  49033  OD2 ASP Q  46     113.925  77.371 -43.581  1.00 71.82      QS17
ATOM  49034  C   ASP Q  46     114.296  75.213 -41.929  1.00 46.89      QS17
ATOM  49035  O   ASP Q  46     114.709  74.750 -42.993  1.00 46.89      QS17
ATOM  49036  N   PRO Q  47     113.225  74.716 -41.298  1.00 62.48      QS17
ATOM  49037  CD  PRO Q  47     112.523  75.434 -40.223  1.00 56.24      QS17
ATOM  49038  CA  PRO Q  47     112.431  73.569 -41.728  1.00 62.48      QS17
ATOM  49039  CB  PRO Q  47     111.169  73.684 -40.877  1.00 56.24      QS17
ATOM  49040  CG  PRO Q  47     111.623  74.363 -39.670  1.00 56.24      QS17
ATOM  49041  C   PRO Q  47     112.090  73.535 -43.203  1.00 62.48      QS17
ATOM  49042  O   PRO Q  47     112.157  72.483 -43.835  1.00 62.48      QS17
ATOM  49043  N   GLU Q  48     111.732  74.690 -43.751  1.00 53.28      QS17
ATOM  49044  CA  GLU Q  48     111.309  74.758 -45.143  1.00 53.28      QS17
ATOM  49045  CB  GLU Q  48     109.976  75.501 -45.214  1.00188.44      QS17
ATOM  49046  CG  GLU Q  48     108.990  75.067 -44.143  1.00188.44      QS17
ATOM  49047  CD  GLU Q  48     107.841  76.037 -43.978  1.00188.44      QS17
ATOM  49048  OE1 GLU Q  48     108.105  77.235 -43.737  1.00188.44      QS17
ATOM  49049  OE2 GLU Q  48     106.676  75.601 -44.083  1.00188.44      QS17
ATOM  49050  C   GLU Q  48     112.293  75.417 -46.080  1.00 53.28      QS17
ATOM  49051  O   GLU Q  48     111.869  76.002 -47.075  1.00 53.28      QS17
ATOM  49052  N   GLU Q  49     113.590  75.301 -45.780  1.00 55.43      QS17
ATOM  49053  CA  GLU Q  49     114.640  75.929 -46.588  1.00 55.43      QS17
ATOM  49054  CB  GLU Q  49     115.166  74.957 -47.660  1.00114.54      QS17
ATOM  49055  CG  GLU Q  49     116.347  74.071 -47.205  1.00114.54      QS17
ATOM  49056  CD  GLU Q  49     117.675  74.838 -47.053  1.00114.54      QS17
ATOM  49057  OE1 GLU Q  49     117.719  75.836 -46.299  1.00114.54      QS17
ATOM  49058  OE2 GLU Q  49     118.681  74.437 -47.683  1.00114.54      QS17
ATOM  49059  C   GLU Q  49     114.096  77.208 -47.230  1.00 55.43      QS17
ATOM  49060  O   GLU Q  49     114.126  77.382 -48.446  1.00 55.43      QS17
ATOM  49061  N   LYS Q  50     113.591  78.096 -46.382  1.00 55.67      QS17
ATOM  49062  CA  LYS Q  50     113.003  79.354 -46.811  1.00 55.67      QS17
ATOM  49063  CB  LYS Q  50     111.893  79.760 -45.840  1.00113.46      QS17
ATOM  49064  CG  LYS Q  50     111.308  81.130 -46.109  1.00113.46      QS17
ATOM  49065  CD  LYS Q  50     110.110  81.421 -45.215  1.00113.46      QS17
ATOM  49066  CE  LYS Q  50     109.464  82.754 -45.591  1.00113.46      QS17
ATOM  49067  NZ  LYS Q  50     108.280  83.088 -44.751  1.00113.46      QS17
ATOM  49068  C   LYS Q  50     114.004  80.490 -46.914  1.00 55.67      QS17
ATOM  49069  O   LYS Q  50     113.928  81.307 -47.828  1.00 55.67      QS17
ATOM  49070  N   TYR Q  51     114.950  80.543 -45.983  1.00 56.31      QS17
ATOM  49071  CA  TYR Q  51     115.922  81.624 -45.980  1.00 56.31      QS17
ATOM  49072  CB  TYR Q  51     116.284  81.956 -44.542  1.00 43.38      QS17
ATOM  49073  CG  TYR Q  51     115.063  82.170 -43.685  1.00 43.38      QS17
ATOM  49074  CD1 TYR Q  51     114.558  81.148 -42.905  1.00 43.38      QS17
ATOM  49075  CE1 TYR Q  51     113.409  81.327 -42.153  1.00 43.38      QS17
ATOM  49076  CD2 TYR Q  51     114.388  83.387 -43.696  1.00 43.38      QS17
ATOM  49077  CE2 TYR Q  51     113.231  83.580 -42.948  1.00 43.38      QS17
ATOM  49078  CZ  TYR Q  51     112.744  82.543 -42.175  1.00 43.38      QS17
ATOM  49079  OH  TYR Q  51     111.601  82.717 -41.420  1.00 43.38      QS17
ATOM  49080  C   TYR Q  51     117.178  81.391 -46.803  1.00 56.31      QS17
ATOM  49081  O   TYR Q  51     117.662  80.263 -46.916  1.00 56.31      QS17
ATOM  49082  N   LYS Q  52     117.690  82.486 -47.370  1.00 60.53      QS17
ATOM  49083  CA  LYS Q  52     118.882  82.483 -48.221  1.00 60.53      QS17
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ATOM  49084  CB  LYS Q  52     118.481  82.849 -49.649  1.00125.70       QS17
ATOM  49085  CG  LYS Q  52     117.331  82.005 -50.180  1.00125.70       QS17
ATOM  49086  CD  LYS Q  52     116.776  82.546 -51.488  1.00125.70       QS17
ATOM  49087  CE  LYS Q  52     115.564  81.735 -51.938  1.00125.70       QS17
ATOM  49088  NZ  LYS Q  52     114.918  82.283 -53.167  1.00125.70       QS17
ATOM  49089  C   LYS Q  52     119.924  83.473 -47.701  1.00 60.53       QS17
ATOM  49090  O   LYS Q  52     119.670  84.200 -46.742  1.00 60.53       QS17
ATOM  49091  N   LEU Q  53     121.095  83.506 -48.329  1.00 39.48       QS17
ATOM  49092  CA  LEU Q  53     122.152  84.414 -47.891  1.00 39.48       QS17
ATOM  49093  CB  LEU Q  53     123.443  84.175 -48.668  1.00 45.79       QS17
ATOM  49094  CG  LEU Q  53     124.210  82.922 -48.268  1.00 45.79       QS17
ATOM  49095  CD1 LEU Q  53     123.343  81.715 -48.556  1.00 45.79       QS17
ATOM  49096  CD2 LEU Q  53     125.522  82.840 -49.025  1.00 45.79       QS17
ATOM  49097  C   LEU Q  53     121.795  85.882 -48.002  1.00 39.48       QS17
ATOM  49098  O   LEU Q  53     121.023  86.290 -48.873  1.00 39.48       QS17
ATOM  49099  N   GLY Q  54     122.378  86.674 -47.111  1.00 80.12       QS17
ATOM  49100  CA  GLY Q  54     122.126  88.099 -47.115  1.00 80.12       QS17
ATOM  49101  C   GLY Q  54     120.807  88.475 -46.472  1.00 80.12       QS17
ATOM  49102  O   GLY Q  54     120.472  89.658 -46.399  1.00 80.12       QS17
ATOM  49103  N   ASP Q  55     120.051  87.484 -46.004  1.00 39.17       QS17
ATOM  49104  CA  ASP Q  55     118.775  87.778 -45.374  1.00 39.17       QS17
ATOM  49105  CB  ASP Q  55     117.782  86.631 -45.566  1.00100.69       QS17
ATOM  49106  CG  ASP Q  55     117.603  86.256 -47.016  1.00100.69       QS17
ATOM  49107  OD1 ASP Q  55     117.802  87.135 -47.883  1.00100.69       QS17
ATOM  49108  OD2 ASP Q  55     117.253  85.086 -47.289  1.00100.69       QS17
ATOM  49109  C   ASP Q  55     118.941  88.044 -43.897  1.00 39.17       QS17
ATOM  49110  O   ASP Q  55     119.349  87.179 -43.132  1.00 39.17       QS17
ATOM  49111  N   VAL Q  56     118.654  89.264 -43.490  1.00 46.22       QS17
ATOM  49112  CA  VAL Q  56     118.730  89.583 -42.089  1.00 46.22       QS17
ATOM  49113  CB  VAL Q  56     118.632  91.063 -41.880  1.00 38.41       QS17
ATOM  49114  CG1 VAL Q  56     118.529  91.367 -40.400  1.00 38.41       QS17
ATOM  49115  CG2 VAL Q  56     119.843  91.724 -42.505  1.00 38.41       QS17
ATOM  49116  C   VAL Q  56     117.514  88.924 -41.477  1.00 46.22       QS17
ATOM  49117  O   VAL Q  56     116.381  89.274 -41.813  1.00 46.22       QS17
ATOM  49118  N   VAL Q  57     117.744  87.969 -40.585  1.00 37.67       QS17
ATOM  49119  CA  VAL Q  57     116.650  87.250 -39.951  1.00 37.67       QS17
ATOM  49120  CB  VAL Q  57     116.771  85.768 -40.192  1.00 30.51       QS17
ATOM  49121  CG1 VAL Q  57     116.777  85.472 -41.675  1.00 30.51       QS17
ATOM  49122  CG2 VAL Q  57     118.052  85.272 -39.541  1.00 30.51       QS17
ATOM  49123  C   VAL Q  57     116.667  87.401 -38.455  1.00 37.67       QS17
ATOM  49124  O   VAL Q  57     117.663  87.828 -37.871  1.00 37.67       QS17
ATOM  49125  N   GLU Q  58     115.554  87.041 -37.831  1.00 50.34       QS17
ATOM  49126  CA  GLU Q  58     115.491  87.064 -36.385  1.00 50.34       QS17
ATOM  49127  CB  GLU Q  58     114.165  87.625 -35.896  1.00 71.87       QS17
ATOM  49128  CG  GLU Q  58     113.934  89.047 -36.339  1.00 71.87       QS17
ATOM  49129  CD  GLU Q  58     113.240  89.892 -35.284  1.00 71.87       QS17
ATOM  49130  OE1 GLU Q  58     112.186  89.461 -34.756  1.00 71.87       QS17
ATOM  49131  OE2 GLU Q  58     113.753  90.996 -34.990  1.00 71.87       QS17
ATOM  49132  C   GLU Q  58     115.651  85.603 -35.977  1.00 50.34       QS17
ATOM  49133  O   GLU Q  58     115.253  84.691 -36.699  1.00 50.34       QS17
ATOM  49134  N   ILE Q  59     116.266  85.384 -34.829  1.00 27.04       QS17
ATOM  49135  CA  ILE Q  59     116.501  84.046 -34.334  1.00 27.04       QS17
ATOM  49136  CB  ILE Q  59     118.024  83.780 -34.329  1.00 52.06       QS17
ATOM  49137  CG2 ILE Q  59     118.382  82.594 -33.525  1.00 52.06       QS17
ATOM  49138  CG1 ILE Q  59     118.487  83.585 -35.766  1.00 52.06       QS17
ATOM  49139  CD1 ILE Q  59     117.518  82.787 -36.613  1.00 52.06       QS17
ATOM  49140  C   ILE Q  59     115.894  83.989 -32.944  1.00 27.04       QS17
ATOM  49141  O   ILE Q  59     116.086  84.902 -32.134  1.00 27.04       QS17
ATOM  49142  N   ILE Q  60     115.142  82.928 -32.677  1.00 23.36       QS17
ATOM  49143  CA  ILE Q  60     114.480  82.775 -31.389  1.00 23.36       QS17
ATOM  49144  CB  ILE Q  60     112.934  82.704 -31.601  1.00 53.84       QS17
ATOM  49145  CG2 ILE Q  60     112.493  81.283 -31.833  1.00 53.84       QS17
ATOM  49146  CG1 ILE Q  60     112.199  83.306 -30.407  1.00 53.84       QS17
ATOM  49147  CD1 ILE Q  60     112.662  82.803 -29.077  1.00 53.84       QS17
ATOM  49148  C   ILE Q  60     114.968  81.524 -30.654  1.00 23.36       QS17
ATOM  49149  O   ILE Q  60     115.061  80.443 -31.263  1.00 23.36       QS17
ATOM  49150  N   GLU Q  61     115.298  81.685 -29.362  1.00 32.08       QS17
ATOM  49151  CA  GLU Q  61     115.766  80.584 -28.510  1.00 32.08       QS17
ATOM  49152  CB  GLU Q  61     115.850  81.023 -27.052  1.00 66.94       QS17
ATOM  49153  CG  GLU Q  61     116.127  79.863 -26.126  1.00 66.94       QS17
ATOM  49154  CD  GLU Q  61     116.265  80.241 -24.649  1.00 66.94       QS17
ATOM  49155  OE1 GLU Q  61     116.439  79.296 -23.845  1.00 66.94       QS17
ATOM  49156  OE2 GLU Q  61     116.207  81.444 -24.290  1.00 66.94       QS17
ATOM  49157  C   GLU Q  61     114.738  79.482 -28.653  1.00 32.08       QS17
ATOM  49158  O   GLU Q  61     113.551  79.772 -28.713  1.00 32.08       QS17
ATOM  49159  N   SER Q  62     115.165  78.224 -28.708  1.00 22.20       QS17
ATOM  49160  CA  SER Q  62     114.206  77.135 -28.906  1.00 22.20       QS17
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ATOM  49161  CB  SER Q  62     113.910  76.995 -30.400  1.00 45.20      QS17
ATOM  49162  OG  SER Q  62     113.758  78.261 -31.014  1.00 45.20      QS17
ATOM  49163  C   SER Q  62     114.639  75.773 -28.378  1.00 22.20      QS17
ATOM  49164  O   SER Q  62     115.795  75.583 -27.985  1.00 22.20      QS17
ATOM  49165  N   ARG Q  63     113.710  74.816 -28.385  1.00 31.60      QS17
ATOM  49166  CA  ARG Q  63     114.009  73.462 -27.924  1.00 31.60      QS17
ATOM  49167  CB  ARG Q  63     112.768  72.595 -27.927  1.00 38.64      QS17
ATOM  49168  CG  ARG Q  63     113.072  71.122 -27.695  1.00 38.64      QS17
ATOM  49169  CD  ARG Q  63     112.321  70.279 -28.702  1.00 38.64      QS17
ATOM  49170  NE  ARG Q  63     110.927  70.688 -28.728  1.00 38.64      QS17
ATOM  49171  CZ  ARG Q  63     110.042  70.265 -29.615  1.00 38.64      QS17
ATOM  49172  NH1 ARG Q  63     110.398  69.411 -30.566  1.00 38.64      QS17
ATOM  49173  NH2 ARG Q  63     108.799  70.706 -29.541  1.00 38.64      QS17
ATOM  49174  C   ARG Q  63     115.006  72.863 -28.890  1.00 31.60      QS17
ATOM  49175  O   ARG Q  63     114.793  72.914 -30.097  1.00 31.60      QS17
ATOM  49176  N   PRO Q  64     116.083  72.257 -28.372  1.00 16.44      QS17
ATOM  49177  CD  PRO Q  64     116.174  71.853 -26.959  1.00 20.20      QS17
ATOM  49178  CA  PRO Q  64     117.149  71.635 -29.157  1.00 16.44      QS17
ATOM  49179  CB  PRO Q  64     117.764  70.659 -28.179  1.00 20.20      QS17
ATOM  49180  CG  PRO Q  64     117.582  71.337 -26.864  1.00 20.20      QS17
ATOM  49181  C   PRO Q  64     116.619  70.934 -30.387  1.00 16.44      QS17
ATOM  49182  O   PRO Q  64     115.674  70.171 -30.297  1.00 16.44      QS17
ATOM  49183  N   ILE Q  65     117.204  71.208 -31.546  1.00 27.53      QS17
ATOM  49184  CA  ILE Q  65     116.770  70.560 -32.773  1.00 27.53      QS17
ATOM  49185  CB  ILE Q  65     116.734  71.532 -33.954  1.00 45.33      QS17
ATOM  49186  CG2 ILE Q  65     116.481  70.777 -35.247  1.00 45.33      QS17
ATOM  49187  CG1 ILE Q  65     115.646  72.578 -33.733  1.00 45.33      QS17
ATOM  49188  CD1 ILE Q  65     115.996  73.615 -32.693  1.00 45.33      QS17
ATOM  49189  C   ILE Q  65     117.825  69.518 -33.043  1.00 27.53      QS17
ATOM  49190  O   ILE Q  65     117.612  68.567 -33.791  1.00 27.53      QS17
ATOM  49191  N   SER Q  66     118.974  69.710 -32.407  1.00 44.94      QS17
ATOM  49192  CA  SER Q  66     120.107  68.812 -32.547  1.00 44.94      QS17
ATOM  49193  CB  SER Q  66     120.567  68.763 -33.997  1.00 43.69      QS17
ATOM  49194  OG  SER Q  66     121.015  70.039 -34.408  1.00 43.69      QS17
ATOM  49195  C   SER Q  66     121.230  69.374 -31.716  1.00 44.94      QS17
ATOM  49196  O   SER Q  66     121.046  70.342 -30.991  1.00 44.94      QS17
ATOM  49197  N   LYS Q  67     122.395  68.755 -31.822  1.00 55.90      QS17
ATOM  49198  CA  LYS Q  67     123.567  69.228 -31.109  1.00 55.90      QS17
ATOM  49199  CB  LYS Q  67     124.715  68.261 -31.308  1.00 39.92      QS17
ATOM  49200  CG  LYS Q  67     126.049  68.761 -30.843  1.00 39.92      QS17
ATOM  49201  CD  LYS Q  67     127.089  67.749 -31.226  1.00 39.92      QS17
ATOM  49202  CE  LYS Q  67     128.469  68.167 -30.820  1.00 39.92      QS17
ATOM  49203  NZ  LYS Q  67     129.446  67.164 -31.359  1.00 39.92      QS17
ATOM  49204  C   LYS Q  67     123.850  70.477 -31.877  1.00 55.90      QS17
ATOM  49205  O   LYS Q  67     123.474  70.555 -33.028  1.00 55.90      QS17
ATOM  49206  N   ARG Q  68     124.469  71.468 -31.261  1.00 33.95      QS17
ATOM  49207  CA  ARG Q  68     124.791  72.691 -31.991  1.00 33.95      QS17
ATOM  49208  CB  ARG Q  68     125.648  72.329 -33.209  1.00 51.93      QS17
ATOM  49209  CG  ARG Q  68     126.443  73.467 -33.786  1.00 51.93      QS17
ATOM  49210  CD  ARG Q  68     127.694  73.767 -32.972  1.00 51.93      QS17
ATOM  49211  NE  ARG Q  68     128.089  75.158 -33.152  1.00 51.93      QS17
ATOM  49212  CZ  ARG Q  68     128.378  75.711 -34.329  1.00 51.93      QS17
ATOM  49213  NH1 ARG Q  68     128.330  74.990 -35.440  1.00 51.93      QS17
ATOM  49214  NH2 ARG Q  68     128.689  77.002 -34.403  1.00 51.93      QS17
ATOM  49215  C   ARG Q  68     123.585  73.530 -32.456  1.00 33.95      QS17
ATOM  49216  O   ARG Q  68     123.649  74.755 -32.489  1.00 33.95      QS17
ATOM  49217  N   LYS Q  69     122.484  72.887 -32.804  1.00 25.83      QS17
ATOM  49218  CA  LYS Q  69     121.329  73.616 -33.288  1.00 25.83      QS17
ATOM  49219  CB  LYS Q  69     120.747  72.836 -34.451  1.00 33.19      QS17
ATOM  49220  CG  LYS Q  69     119.900  73.619 -35.410  1.00 33.19      QS17
ATOM  49221  CD  LYS Q  69     119.615  72.753 -36.634  1.00 33.19      QS17
ATOM  49222  CE  LYS Q  69     118.486  73.320 -37.474  1.00 33.19      QS17
ATOM  49223  NZ  LYS Q  69     118.131  72.407 -38.594  1.00 33.19      QS17
ATOM  49224  C   LYS Q  69     120.269  73.876 -32.206  1.00 25.83      QS17
ATOM  49225  O   LYS Q  69     119.519  72.985 -31.839  1.00 25.83      QS17
ATOM  49226  N   ARG Q  70     120.203  75.109 -31.710  1.00 34.43      QS17
ATOM  49227  CA  ARG Q  70     119.249  75.484 -30.667  1.00 34.43      QS17
ATOM  49228  CB  ARG Q  70     119.980  75.681 -29.347  1.00 51.70      QS17
ATOM  49229  CG  ARG Q  70     120.094  74.465 -28.488  1.00 51.70      QS17
ATOM  49230  CD  ARG Q  70     121.072  73.464 -29.020  1.00 51.70      QS17
ATOM  49231  NE  ARG Q  70     121.167  72.375 -28.065  1.00 51.70      QS17
ATOM  49232  CZ  ARG Q  70     121.873  71.270 -28.247  1.00 51.70      QS17
ATOM  49233  NH1 ARG Q  70     122.567  71.092 -29.360  1.00 51.70      QS17
ATOM  49234  NH2 ARG Q  70     121.876  70.334 -27.307  1.00 51.70      QS17
ATOM  49235  C   ARG Q  70     118.474  76.771 -30.959  1.00 34.43      QS17
ATOM  49236  O   ARG Q  70     118.149  77.525 -30.049  1.00 34.43      QS17
ATOM  49237  N   PHE Q  71     118.168  77.040 -32.211  1.00 40.40      QS17
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ATOM  49238  CA  PHE Q  71     117.444  78.260 -32.518  1.00 40.40      QS17
ATOM  49239  CB  PHE Q  71     118.421  79.409 -32.741  1.00 25.57      QS17
ATOM  49240  CG  PHE Q  71     118.821  80.144 -31.494  1.00 25.57      QS17
ATOM  49241  CD1 PHE Q  71     117.989  81.117 -30.948  1.00 25.57      QS17
ATOM  49242  CD2 PHE Q  71     120.038  79.887 -30.887  1.00 25.57      QS17
ATOM  49243  CE1 PHE Q  71     118.356  81.830 -29.817  1.00 25.57      QS17
ATOM  49244  CE2 PHE Q  71     120.420  80.594 -29.747  1.00 25.57      QS17
ATOM  49245  CZ  PHE Q  71     119.574  81.571 -29.211  1.00 25.57      QS17
ATOM  49246  C   PHE Q  71     116.654  78.056 -33.789  1.00 40.40      QS17
ATOM  49247  O   PHE Q  71     116.964  77.175 -34.589  1.00 40.40      QS17
ATOM  49248  N   ARG Q  72     115.632  78.875 -33.982  1.00 51.92      QS17
ATOM  49249  CA  ARG Q  72     114.835  78.774 -35.185  1.00 51.92      QS17
ATOM  49250  CB  ARG Q  72     113.477  78.187 -34.856  1.00 37.96      QS17
ATOM  49251  CG  ARG Q  72     113.560  76.809 -34.253  1.00 37.96      QS17
ATOM  49252  CD  ARG Q  72     112.171  76.233 -33.964  1.00 37.96      QS17
ATOM  49253  NE  ARG Q  72     111.493  76.873 -32.835  1.00 37.96      QS17
ATOM  49254  CZ  ARG Q  72     110.176  76.857 -32.660  1.00 37.96      QS17
ATOM  49255  NH1 ARG Q  72     109.403  76.244 -33.542  1.00 37.96      QS17
ATOM  49256  NH2 ARG Q  72     109.634  77.431 -31.598  1.00 37.96      QS17
ATOM  49257  C   ARG Q  72     114.695  80.174 -35.738  1.00 51.92      QS17
ATOM  49258  O   ARG Q  72     114.675  81.143 -34.979  1.00 51.92      QS17
ATOM  49259  N   VAL Q  73     114.626  80.290 -37.058  1.00 37.16      QS17
ATOM  49260  CA  VAL Q  73     114.491  81.603 -37.663  1.00 37.16      QS17
ATOM  49261  CB  VAL Q  73     114.685  81.567 -39.194  1.00 24.37      QS17
ATOM  49262  CG1 VAL Q  73     115.020  82.955 -39.697  1.00 24.37      QS17
ATOM  49263  CG2 VAL Q  73     115.772  80.582 -39.574  1.00 24.37      QS17
ATOM  49264  C   VAL Q  73     113.083  82.084 -37.361  1.00 37.16      QS17
ATOM  49265  O   VAL Q  73     112.112  81.528 -37.854  1.00 37.16      QS17
ATOM  49266  N   LEU Q  74     112.978  83.115 -36.536  1.00 50.16      QS17
ATOM  49267  CA  LEU Q  74     111.683  83.660 -36.168  1.00 50.16      QS17
ATOM  49268  CB  LEU Q  74     111.850  84.724 -35.092  1.00 32.76      QS17
ATOM  49269  CG  LEU Q  74     110.704  84.841 -34.101  1.00 32.76      QS17
ATOM  49270  CD1 LEU Q  74     110.893  86.096 -33.276  1.00 32.76      QS17
ATOM  49271  CD2 LEU Q  74     109.401  84.891 -34.839  1.00 32.76      QS17
ATOM  49272  C   LEU Q  74     111.007  84.270 -37.383  1.00 50.16      QS17
ATOM  49273  O   LEU Q  74     109.836  84.026 -37.617  1.00 50.16      QS17
ATOM  49274  N   ARG Q  75     111.742  85.069 -38.151  1.00 64.64      QS17
ATOM  49275  CA  ARG Q  75     111.179  85.690 -39.347  1.00 64.64      QS17
ATOM  49276  CB  ARG Q  75     110.248  86.835 -38.965  1.00 44.30      QS17
ATOM  49277  CG  ARG Q  75     110.910  87.998 -38.300  1.00 44.30      QS17
ATOM  49278  CD  ARG Q  75     109.868  88.759 -37.517  1.00 44.30      QS17
ATOM  49279  NE  ARG Q  75     110.385  89.973 -36.899  1.00 44.30      QS17
ATOM  49280  CZ  ARG Q  75     110.616  91.110 -37.551  1.00 44.30      QS17
ATOM  49281  NH1 ARG Q  75     110.376  91.202 -38.855  1.00 44.30      QS17
ATOM  49282  NH2 ARG Q  75     111.082  92.164 -36.893  1.00 44.30      QS17
ATOM  49283  C   ARG Q  75     112.218  86.209 -40.319  1.00 64.64      QS17
ATOM  49284  O   ARG Q  75     113.267  85.615 -40.509  1.00 64.64      QS17
ATOM  49285  N   LEU Q  76     111.904  87.324 -40.951  1.00 43.42      QS17
ATOM  49286  CA  LEU Q  76     112.809  87.933 -41.906  1.00 43.42      QS17
ATOM  49287  CB  LEU Q  76     112.417  87.547 -43.336  1.00 46.54      QS17
ATOM  49288  CG  LEU Q  76     113.293  88.044 -44.495  1.00 46.54      QS17
ATOM  49289  CD1 LEU Q  76     112.643  87.642 -45.805  1.00 46.54      QS17
ATOM  49290  CD2 LEU Q  76     113.467  89.559 -44.449  1.00 46.54      QS17
ATOM  49291  C   LEU Q  76     112.732  89.444 -41.738  1.00 43.42      QS17
ATOM  49292  O   LEU Q  76     111.676  90.049 -41.913  1.00 43.42      QS17
ATOM  49293  N   VAL Q  77     113.859  90.048 -41.406  1.00 62.87      QS17
ATOM  49294  CA  VAL Q  77     113.909  91.477 -41.218  1.00 62.87      QS17
ATOM  49295  CB  VAL Q  77     115.099  91.854 -40.384  1.00 45.63      QS17
ATOM  49296  CG1 VAL Q  77     115.157  93.356 -40.245  1.00 45.63      QS17
ATOM  49297  CG2 VAL Q  77     115.002  91.178 -39.038  1.00 45.63      QS17
ATOM  49298  C   VAL Q  77     114.006  92.189 -42.557  1.00 62.87      QS17
ATOM  49299  O   VAL Q  77     113.106  92.943 -42.934  1.00 62.87      QS17
ATOM  49300  N   GLU Q  78     115.111  91.970 -43.264  1.00 47.80      QS17
ATOM  49301  CA  GLU Q  78     115.295  92.576 -44.575  1.00 47.80      QS17
ATOM  49302  CB  GLU Q  78     116.089  93.885 -44.490  1.00 96.27      QS17
ATOM  49303  CG  GLU Q  78     117.590  93.735 -44.457  1.00 96.27      QS17
ATOM  49304  CD  GLU Q  78     118.294  94.975 -44.968  1.00 96.27      QS17
ATOM  49305  OE1 GLU Q  78     118.104  95.314 -46.159  1.00 96.27      QS17
ATOM  49306  OE2 GLU Q  78     119.031  95.609 -44.182  1.00 96.27      QS17
ATOM  49307  C   GLU Q  78     116.017  91.571 -45.442  1.00 47.80      QS17
ATOM  49308  O   GLU Q  78     116.956  90.923 -45.001  1.00 47.80      QS17
ATOM  49309  N   SER Q  79     115.564  91.447 -46.680  1.00 70.46      QS17
ATOM  49310  CA  SER Q  79     116.134  90.482 -47.601  1.00 70.46      QS17
ATOM  49311  CB  SER Q  79     115.040  89.966 -48.541  1.00149.08      QS17
ATOM  49312  OG  SER Q  79     115.531  88.946 -49.393  1.00149.08      QS17
ATOM  49313  C   SER Q  79     117.290  91.022 -48.416  1.00 70.46      QS17
ATOM  49314  O   SER Q  79     117.398  92.224 -48.635  1.00 70.46      QS17
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ATOM  49315  N   GLY Q  80     118.151  90.105 -48.848  1.00 70.71      QS17
ATOM  49316  CA  GLY Q  80     119.294  90.442 -49.672  1.00 70.71      QS17
ATOM  49317  C   GLY Q  80     120.185  91.588 -49.245  1.00 70.71      QS17
ATOM  49318  O   GLY Q  80     119.766  92.737 -49.169  1.00 70.71      QS17
ATOM  49319  N   ARG Q  81     121.439  91.257 -48.974  1.00 50.62      QS17
ATOM  49320  CA  ARG Q  81     122.444  92.230 -48.578  1.00 50.62      QS17
ATOM  49321  CB  ARG Q  81     121.947  93.104 -47.432  1.00 56.97      QS17
ATOM  49322  CG  ARG Q  81     121.686  92.423 -46.127  1.00 56.97      QS17
ATOM  49323  CD  ARG Q  81     121.506  93.522 -45.128  1.00 56.97      QS17
ATOM  49324  NE  ARG Q  81     122.349  94.643 -45.524  1.00 56.97      QS17
ATOM  49325  CZ  ARG Q  81     122.684  95.657 -44.737  1.00 56.97      QS17
ATOM  49326  NH1 ARG Q  81     122.254  95.710 -43.482  1.00 56.97      QS17
ATOM  49327  NH2 ARG Q  81     123.454  96.627 -45.212  1.00 56.97      QS17
ATOM  49328  C   ARG Q  81     123.719  91.495 -48.199  1.00 50.62      QS17
ATOM  49329  O   ARG Q  81     124.071  91.338 -47.025  1.00 50.62      QS17
ATOM  49330  N   MET Q  82     124.383  91.036 -49.254  1.00 58.59      QS17
ATOM  49331  CA  MET Q  82     125.620  90.290 -49.188  1.00 58.59      QS17
ATOM  49332  CB  MET Q  82     125.982  89.798 -50.585  1.00 88.83      QS17
ATOM  49333  CG  MET Q  82     124.892  88.998 -51.257  1.00 88.83      QS17
ATOM  49334  SD  MET Q  82     124.616  87.433 -50.429  1.00 88.83      QS17
ATOM  49335  CE  MET Q  82     126.112  86.513 -50.917  1.00 88.83      QS17
ATOM  49336  C   MET Q  82     126.752  91.141 -48.650  1.00 58.59      QS17
ATOM  49337  O   MET Q  82     127.771  90.613 -48.208  1.00 58.59      QS17
ATOM  49338  N   ASP Q  83     126.586  92.457 -48.705  1.00 51.85      QS17
ATOM  49339  CA  ASP Q  83     127.621  93.340 -48.205  1.00 51.85      QS17
ATOM  49340  CB  ASP Q  83     127.059  94.734 -47.964  1.00 65.12      QS17
ATOM  49341  CG  ASP Q  83     125.887  94.723 -47.032  1.00 65.12      QS17
ATOM  49342  OD1 ASP Q  83     124.889  94.039 -47.341  1.00 65.12      QS17
ATOM  49343  OD2 ASP Q  83     125.966  95.397 -45.988  1.00 65.12      QS17
ATOM  49344  C   ASP Q  83     128.127  92.730 -46.906  1.00 51.85      QS17
ATOM  49345  O   ASP Q  83     129.327  92.588 -46.697  1.00 51.85      QS17
ATOM  49346  N   LEU Q  84     127.199  92.336 -46.048  1.00 32.75      QS17
ATOM  49347  CA  LEU Q  84     127.559  91.718 -44.794  1.00 32.75      QS17
ATOM  49348  CB  LEU Q  84     126.315  91.552 -43.935  1.00 48.02      QS17
ATOM  49349  CG  LEU Q  84     125.693  92.933 -43.702  1.00 48.02      QS17
ATOM  49350  CD1 LEU Q  84     124.482  92.848 -42.802  1.00 48.02      QS17
ATOM  49351  CD2 LEU Q  84     126.737  93.846 -43.080  1.00 48.02      QS17
ATOM  49352  C   LEU Q  84     128.226  90.378 -45.073  1.00 32.75      QS17
ATOM  49353  O   LEU Q  84     129.381  90.174 -44.714  1.00 32.75      QS17
ATOM  49354  N   VAL Q  85     127.517  89.468 -45.728  1.00 36.90      QS17
ATOM  49355  CA  VAL Q  85     128.096  88.163 -46.043  1.00 36.90      QS17
ATOM  49356  CB  VAL Q  85     127.282  87.442 -47.127  1.00 43.22      QS17
ATOM  49357  CG1 VAL Q  85     127.856  86.056 -47.365  1.00 43.22      QS17
ATOM  49358  CG2 VAL Q  85     125.819  87.367 -46.717  1.00 43.22      QS17
ATOM  49359  C   VAL Q  85     129.541  88.288 -46.544  1.00 36.90      QS17
ATOM  49360  O   VAL Q  85     130.458  87.627 -46.026  1.00 36.90      QS17
ATOM  49361  N   GLU Q  86     129.728  89.143 -47.555  1.00 54.58      QS17
ATOM  49362  CA  GLU Q  86     131.038  89.388 -48.161  1.00 54.58      QS17
ATOM  49363  CB  GLU Q  86     130.941  90.480 -49.231  1.00197.77      QS17
ATOM  49364  CG  GLU Q  86     130.179  90.060 -50.483  1.00197.77      QS17
ATOM  49365  CD  GLU Q  86     130.874  88.945 -51.254  1.00197.77      QS17
ATOM  49366  OE1 GLU Q  86     132.015  89.160 -51.715  1.00197.77      QS17
ATOM  49367  OE2 GLU Q  86     130.278  87.855 -51.400  1.00197.77      QS17
ATOM  49368  C   GLU Q  86     132.021  89.803 -47.090  1.00 54.58      QS17
ATOM  49369  O   GLU Q  86     133.112  89.250 -46.989  1.00 54.58      QS17
ATOM  49370  N   LYS Q  87     131.622  90.775 -46.282  1.00 53.51      QS17
ATOM  49371  CA  LYS Q  87     132.469  91.245 -45.201  1.00 53.51      QS17
ATOM  49372  CB  LYS Q  87     131.652  92.089 -44.225  1.00 80.48      QS17
ATOM  49373  CG  LYS Q  87     132.486  92.900 -43.250  1.00 80.48      QS17
ATOM  49374  CD  LYS Q  87     131.739  93.185 -41.937  1.00 80.48      QS17
ATOM  49375  CE  LYS Q  87     130.452  93.989 -42.140  1.00 80.48      QS17
ATOM  49376  NZ  LYS Q  87     129.733  94.241 -40.853  1.00 80.48      QS17
ATOM  49377  C   LYS Q  87     132.994  90.001 -44.492  1.00 53.51      QS17
ATOM  49378  O   LYS Q  87     134.199  89.833 -44.300  1.00 53.51      QS17
ATOM  49379  N   TYR Q  88     132.068  89.115 -44.138  1.00 34.05      QS17
ATOM  49380  CA  TYR Q  88     132.392  87.885 -43.441  1.00 34.05      QS17
ATOM  49381  CB  TYR Q  88     131.121  87.157 -43.056  1.00 42.60      QS17
ATOM  49382  CG  TYR Q  88     131.344  85.737 -42.584  1.00 42.60      QS17
ATOM  49383  CD1 TYR Q  88     131.848  85.465 -41.312  1.00 42.60      QS17
ATOM  49384  CE1 TYR Q  88     131.957  84.153 -40.855  1.00 42.60      QS17
ATOM  49385  CD2 TYR Q  88     130.973  84.663 -43.389  1.00 42.60      QS17
ATOM  49386  CE2 TYR Q  88     131.075  83.363 -42.950  1.00 42.60      QS17
ATOM  49387  CZ  TYR Q  88     131.560  83.106 -41.684  1.00 42.60      QS17
ATOM  49388  OH  TYR Q  88     131.592  81.798 -41.251  1.00 42.60      QS17
ATOM  49389  C   TYR Q  88     133.251  86.948 -44.241  1.00 34.05      QS17
ATOM  49390  O   TYR Q  88     134.308  86.532 -43.779  1.00 34.05      QS17
ATOM  49391  N   LEU Q  89     132.786  86.593 -45.431  1.00 47.59      QS17
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ATOM  49392  CA  LEU Q  89     133.531  85.680 -46.292  1.00 47.59      QS17
ATOM  49393  CB  LEU Q  89     132.896  85.643 -47.677  1.00 42.79      QS17
ATOM  49394  CG  LEU Q  89     131.494  85.048 -47.661  1.00 42.79      QS17
ATOM  49395  CD1 LEU Q  89     130.929  85.020 -49.062  1.00 42.79      QS17
ATOM  49396  CD2 LEU Q  89     131.554  83.650 -47.084  1.00 42.79      QS17
ATOM  49397  C   LEU Q  89     135.004  86.062 -46.403  1.00 47.59      QS17
ATOM  49398  O   LEU Q  89     135.886  85.211 -46.296  1.00 47.59      QS17
ATOM  49399  N   ILE Q  90     135.256  87.350 -46.617  1.00 36.14      QS17
ATOM  49400  CA  ILE Q  90     136.611  87.875 -46.728  1.00 36.14      QS17
ATOM  49401  CB  ILE Q  90     136.586  89.383 -46.993  1.00 53.21      QS17
ATOM  49402  CG2 ILE Q  90     138.001  89.930 -47.036  1.00 53.21      QS17
ATOM  49403  CG1 ILE Q  90     135.853  89.649 -48.308  1.00 53.21      QS17
ATOM  49404  CD1 ILE Q  90     135.497  91.118 -48.552  1.00 53.21      QS17
ATOM  49405  C   ILE Q  90     137.401  87.612 -45.451  1.00 36.14      QS17
ATOM  49406  O   ILE Q  90     138.507  87.083 -45.516  1.00 36.14      QS17
ATOM  49407  N   ARG Q  91     136.834  87.977 -44.297  1.00 31.91      QS17
ATOM  49408  CA  ARG Q  91     137.509  87.755 -43.020  1.00 31.91      QS17
ATOM  49409  CB  ARG Q  91     136.584  88.079 -41.836  1.00104.75      QS17
ATOM  49410  CG  ARG Q  91     137.336  88.391 -40.532  1.00104.75      QS17
ATOM  49411  CD  ARG Q  91     136.851  87.556 -39.337  1.00104.75      QS17
ATOM  49412  NE  ARG Q  91     135.750  88.169 -38.589  1.00104.75      QS17
ATOM  49413  CZ  ARG Q  91     135.030  87.536 -37.661  1.00104.75      QS17
ATOM  49414  NH1 ARG Q  91     135.284  86.268 -37.361  1.00104.75      QS17
ATOM  49415  NH2 ARG Q  91     134.051  88.169 -37.029  1.00104.75      QS17
ATOM  49416  C   ARG Q  91     137.950  86.288 -42.961  1.00 31.91      QS17
ATOM  49417  O   ARG Q  91     139.023  85.965 -42.455  1.00 31.91      QS17
ATOM  49418  N   ARG Q  92     137.137  85.395 -43.504  1.00 53.09      QS17
ATOM  49419  CA  ARG Q  92     137.505  83.990 -43.491  1.00 53.09      QS17
ATOM  49420  CB  ARG Q  92     136.293  83.105 -43.803  1.00140.55      QS17
ATOM  49421  CG  ARG Q  92     136.622  81.615 -43.869  1.00140.55      QS17
ATOM  49422  CD  ARG Q  92     135.403  80.774 -44.219  1.00140.55      QS17
ATOM  49423  NE  ARG Q  92     134.571  80.468 -43.058  1.00140.55      QS17
ATOM  49424  CZ  ARG Q  92     133.384  79.873 -43.131  1.00140.55      QS17
ATOM  49425  NH1 ARG Q  92     132.888  79.525 -44.313  1.00140.55      QS17
ATOM  49426  NH2 ARG Q  92     132.697  79.613 -42.026  1.00140.55      QS17
ATOM  49427  C   ARG Q  92     138.615  83.722 -44.497  1.00 53.09      QS17
ATOM  49428  O   ARG Q  92     139.459  82.857 -44.269  1.00 53.09      QS17
ATOM  49429  N   GLN Q  93     138.612  84.459 -45.606  1.00 56.57      QS17
ATOM  49430  CA  GLN Q  93     139.626  84.281 -46.641  1.00 56.57      QS17
ATOM  49431  CB  GLN Q  93     139.263  85.091 -47.884  1.00174.42      QS17
ATOM  49432  CG  GLN Q  93     140.251  84.925 -49.022  1.00174.42      QS17
ATOM  49433  CD  GLN Q  93     139.858  85.710 -50.255  1.00174.42      QS17
ATOM  49434  OE1 GLN Q  93     138.808  85.466 -50.849  1.00174.42      QS17
ATOM  49435  NE2 GLN Q  93     140.699  86.660 -50.647  1.00174.42      QS17
ATOM  49436  C   GLN Q  93     141.021  84.684 -46.155  1.00 56.57      QS17
ATOM  49437  O   GLN Q  93     142.017  84.067 -46.527  1.00 56.57      QS17
ATOM  49438  N   ASN Q  94     141.093  85.717 -45.320  1.00 41.55      QS17
ATOM  49439  CA  ASN Q  94     142.368  86.183 -44.785  1.00 41.55      QS17
ATOM  49440  CB  ASN Q  94     142.155  87.485 -44.010  1.00 61.15      QS17
ATOM  49441  CG  ASN Q  94     141.865  88.662 -44.928  1.00 61.15      QS17
ATOM  49442  OD1 ASN Q  94     141.417  88.479 -46.058  1.00 61.15      QS17
ATOM  49443  ND2 ASN Q  94     142.110  89.872 -44.445  1.00 61.15      QS17
ATOM  49444  C   ASN Q  94     143.004  85.129 -43.887  1.00 41.55      QS17
ATOM  49445  O   ASN Q  94     144.222  85.023 -43.798  1.00 41.55      QS17
ATOM  49446  N   TYR Q  95     142.162  84.347 -43.227  1.00 49.23      QS17
ATOM  49447  CA  TYR Q  95     142.615  83.290 -42.330  1.00 49.23      QS17
ATOM  49448  CB  TYR Q  95     141.408  82.534 -41.766  1.00 67.43      QS17
ATOM  49449  CG  TYR Q  95     140.701  83.286 -40.678  1.00 67.43      QS17
ATOM  49450  CD1 TYR Q  95     140.801  84.677 -40.596  1.00 67.43      QS17
ATOM  49451  CE1 TYR Q  95     140.180  85.389 -39.585  1.00 67.43      QS17
ATOM  49452  CD2 TYR Q  95     139.950  82.617 -39.718  1.00 67.43      QS17
ATOM  49453  CE2 TYR Q  95     139.316  83.316 -38.693  1.00 67.43      QS17
ATOM  49454  CZ  TYR Q  95     139.436  84.710 -38.629  1.00 67.43      QS17
ATOM  49455  OH  TYR Q  95     138.824  85.429 -37.614  1.00 67.43      QS17
ATOM  49456  C   TYR Q  95     143.539  82.320 -43.032  1.00 49.23      QS17
ATOM  49457  O   TYR Q  95     144.747  82.342 -42.815  1.00 49.23      QS17
ATOM  49458  N   GLN Q  96     142.949  81.456 -43.859  1.00197.77      QS17
ATOM  49459  CA  GLN Q  96     143.684  80.448 -44.619  1.00197.77      QS17
ATOM  49460  CB  GLN Q  96     142.965  80.173 -45.946  1.00200.96      QS17
ATOM  49461  CG  GLN Q  96     143.700  79.237 -46.903  1.00200.96      QS17
ATOM  49462  CD  GLN Q  96     144.904  79.887 -47.567  1.00200.96      QS17
ATOM  49463  OE1 GLN Q  96     144.783  80.925 -48.218  1.00200.96      QS17
ATOM  49464  NE2 GLN Q  96     146.073  79.276 -47.406  1.00200.96      QS17
ATOM  49465  C   GLN Q  96     145.097  80.926 -44.886  1.00197.77      QS17
ATOM  49466  O   GLN Q  96     146.051  80.151 -44.860  1.00197.77      QS17
ATOM  49467  N   SER Q  97     145.216  82.221 -45.137  1.00 98.80      QS17
ATOM  49468  CA  SER Q  97     146.499  82.837 -45.406  1.00 98.80      QS17
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ATOM  49469  CB  SER Q  97     146.265  84.270 -45.858  1.00158.90      QS17
ATOM  49470  OG  SER Q  97     145.422  84.316 -46.994  1.00158.90      QS17
ATOM  49471  C   SER Q  97     147.436  82.796 -44.189  1.00 98.80      QS17
ATOM  49472  O   SER Q  97     148.170  81.820 -44.019  1.00 98.80      QS17
ATOM  49473  N   LEU Q  98     147.406  83.845 -43.358  1.00 58.23      QS17
ATOM  49474  CA  LEU Q  98     148.247  83.969 -42.142  1.00 58.23      QS17
ATOM  49475  CB  LEU Q  98     147.610  84.986 -41.176  1.00 44.68      QS17
ATOM  49476  CG  LEU Q  98     146.118  84.887 -40.804  1.00 44.68      QS17
ATOM  49477  CD1 LEU Q  98     145.809  83.515 -40.293  1.00 44.68      QS17
ATOM  49478  CD2 LEU Q  98     145.746  85.921 -39.749  1.00 44.68      QS17
ATOM  49479  C   LEU Q  98     148.646  82.720 -41.315  1.00 58.23      QS17
ATOM  49480  O   LEU Q  98     148.284  82.622 -40.143  1.00 58.23      QS17
ATOM  49481  N   SER Q  99     149.414  81.793 -41.890  1.00 65.43      QS17
ATOM  49482  CA  SER Q  99     149.826  80.602 -41.145  1.00 65.43      QS17
ATOM  49483  CB  SER Q  99     149.184  79.344 -41.737  1.00 93.83      QS17
ATOM  49484  OG  SER Q  99     149.681  79.064 -43.032  1.00 93.83      QS17
ATOM  49485  C   SER Q  99     151.349  80.442 -41.109  1.00 65.43      QS17
ATOM  49486  O   SER Q  99     152.009  80.914 -40.176  1.00 65.43      QS17
ATOM  49487  N   LYS Q 100     151.893  79.750 -42.110  1.00200.96      QS17
ATOM  49488  CA  LYS Q 100     153.337  79.539 -42.238  1.00200.96      QS17
ATOM  49489  CB  LYS Q 100     153.661  78.080 -42.584  1.00 62.63      QS17
ATOM  49490  CG  LYS Q 100     153.530  77.088 -41.443  1.00 62.63      QS17
ATOM  49491  CD  LYS Q 100     153.953  75.686 -41.900  1.00 62.63      QS17
ATOM  49492  CE  LYS Q 100     153.644  74.609 -40.851  1.00 62.63      QS17
ATOM  49493  NZ  LYS Q 100     154.358  74.794 -39.549  1.00 62.63      QS17
ATOM  49494  C   LYS Q 100     153.818  80.432 -43.378  1.00200.96      QS17
ATOM  49495  O   LYS Q 100     155.015  80.689 -43.527  1.00200.96      QS17
ATOM  49496  N   ARG Q 101     152.861  80.888 -44.182  1.00200.96      QS17
ATOM  49497  CA  ARG Q 101     153.128  81.758 -45.322  1.00200.96      QS17
ATOM  49498  CB  ARG Q 101     152.382  81.246 -46.560  1.00200.96      QS17
ATOM  49499  CG  ARG Q 101     152.900  79.918 -47.102  1.00200.96      QS17
ATOM  49500  CD  ARG Q 101     154.261  80.083 -47.773  1.00200.96      QS17
ATOM  49501  NE  ARG Q 101     155.273  80.615 -46.862  1.00200.96      QS17
ATOM  49502  CZ  ARG Q 101     156.513  80.932 -47.223  1.00200.96      QS17
ATOM  49503  NH1 ARG Q 101     156.903  80.773 -48.480  1.00200.96      QS17
ATOM  49504  NH2 ARG Q 101     157.362  81.413 -46.326  1.00200.96      QS17
ATOM  49505  C   ARG Q 101     152.690  83.185 -45.006  1.00200.96      QS17
ATOM  49506  O   ARG Q 101     153.462  84.132 -45.171  1.00200.96      QS17
ATOM  49507  N   GLY Q 102     151.446  83.332 -44.555  1.00200.96      QS17
ATOM  49508  CA  GLY Q 102     150.941  84.648 -44.210  1.00200.96      QS17
ATOM  49509  C   GLY Q 102     149.577  85.025 -44.769  1.00200.96      QS17
ATOM  49510  O   GLY Q 102     149.064  84.378 -45.683  1.00200.96      QS17
ATOM  49511  N   GLY Q 103     149.003  86.090 -44.209  1.00200.96      QS17
ATOM  49512  CA  GLY Q 103     147.699  86.580 -44.625  1.00200.96      QS17
ATOM  49513  C   GLY Q 103     147.530  86.838 -46.114  1.00200.96      QS17
ATOM  49514  O   GLY Q 103     148.405  86.511 -46.917  1.00200.96      QS17
ATOM  49515  N   LYS Q 104     146.386  87.409 -46.482  1.00200.96      QS17
ATOM  49516  CA  LYS Q 104     146.081  87.723 -47.879  1.00200.96      QS17
ATOM  49517  CB  LYS Q 104     144.625  87.348 -48.197  1.00141.00      QS17
ATOM  49518  CG  LYS Q 104     144.424  86.676 -49.554  1.00141.00      QS17
ATOM  49519  CD  LYS Q 104     144.880  87.557 -50.705  1.00141.00      QS17
ATOM  49520  CE  LYS Q 104     144.765  86.828 -52.026  1.00141.00      QS17
ATOM  49521  NZ  LYS Q 104     145.575  85.579 -52.026  1.00141.00      QS17
ATOM  49522  C   LYS Q 104     146.308  89.220 -48.135  1.00200.96      QS17
ATOM  49523  O   LYS Q 104     147.213  89.814 -47.550  1.00200.96      QS17
ATOM  49524  N   ALA Q 105     145.483  89.806 -49.004  1.00200.96      QS17
ATOM  49525  CA  ALA Q 105     145.536  91.225 -49.385  1.00200.96      QS17
ATOM  49526  CB  ALA Q 105     146.835  91.882 -48.912  1.00 72.52      QS17
ATOM  49527  C   ALA Q 105     145.416  91.363 -50.900  1.00200.96      QS17
ATOM  49528  O   ALA Q 105     146.377  91.869 -51.522  1.00200.96      QS17
ATOM  49529  OXT ALA Q 105     144.367  90.961 -51.447  1.00 72.52      QS17
TER   49529       ALA Q 105                                             QS17
ATOM  49530  CB  PRO R  16     188.175 139.645 -53.391  1.00200.96      RS18
ATOM  49531  CG  PRO R  16     189.122 140.307 -54.392  1.00200.96      RS18
ATOM  49532  C   PRO R  16     186.573 138.458 -54.917  1.00200.96      RS18
ATOM  49533  O   PRO R  16     185.479 138.585 -54.361  1.00200.96      RS18
ATOM  49534  N   PRO R  16     189.019 138.031 -54.970  1.00200.96      RS18
ATOM  49535  CD  PRO R  16     189.978 139.150 -54.936  1.00200.96      RS18
ATOM  49536  CA  PRO R  16     187.858 138.337 -54.101  1.00200.96      RS18
ATOM  49537  N   SER R  17     186.722 138.416 -56.239  1.00200.96      RS18
ATOM  49538  CA  SER R  17     185.595 138.525 -57.157  1.00200.96      RS18
ATOM  49539  CB  SER R  17     184.595 137.390 -56.903  1.00140.39      RS18
ATOM  49540  OG  SER R  17     183.560 137.391 -57.870  1.00140.39      RS18
ATOM  49541  C   SER R  17     184.906 139.879 -56.994  1.00200.96      RS18
ATOM  49542  O   SER R  17     183.882 139.988 -56.316  1.00200.96      RS18
ATOM  49543  N   ARG R  18     185.481 140.907 -57.617  1.00200.96      RS18
ATOM  49544  CA  ARG R  18     184.941 142.265 -57.550  1.00200.96      RS18
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ATOM  49545  CB  ARG R  18     185.600 143.040 -56.398  1.00200.96      RS18
ATOM  49546  CG  ARG R  18     185.260 142.533 -54.995  1.00200.96      RS18
ATOM  49547  CD  ARG R  18     183.972 143.143 -54.442  1.00200.96      RS18
ATOM  49548  NE  ARG R  18     182.802 142.854 -55.268  1.00200.96      RS18
ATOM  49549  CZ  ARG R  18     181.561 143.222 -54.961  1.00200.96      RS18
ATOM  49550  NH1 ARG R  18     181.324 143.894 -53.842  1.00200.96      RS18
ATOM  49551  NH2 ARG R  18     180.557 142.920 -55.773  1.00200.96      RS18
ATOM  49552  C   ARG R  18     185.149 143.028 -58.864  1.00200.96      RS18
ATOM  49553  O   ARG R  18     185.707 144.127 -58.875  1.00200.96      RS18
ATOM  49554  N   LYS R  19     184.703 142.436 -59.969  1.00200.96      RS18
ATOM  49555  CA  LYS R  19     184.826 143.062 -61.284  1.00200.96      RS18
ATOM  49556  CB  LYS R  19     185.850 142.314 -62.149  1.00158.51      RS18
ATOM  49557  CG  LYS R  19     187.256 142.265 -61.571  1.00158.51      RS18
ATOM  49558  CD  LYS R  19     187.337 141.324 -60.380  1.00158.51      RS18
ATOM  49559  CE  LYS R  19     188.725 141.325 -59.766  1.00158.51      RS18
ATOM  49560  NZ  LYS R  19     188.808 140.413 -58.593  1.00158.51      RS18
ATOM  49561  C   LYS R  19     183.464 143.044 -61.973  1.00200.96      RS18
ATOM  49562  O   LYS R  19     182.482 143.562 -61.438  1.00200.96      RS18
ATOM  49563  N   ALA R  20     183.409 142.450 -63.161  1.00125.73      RS18
ATOM  49564  CA  ALA R  20     182.160 142.355 -63.905  1.00125.73      RS18
ATOM  49565  CB  ALA R  20     182.324 142.942 -65.304  1.00 37.66      RS18
ATOM  49566  C   ALA R  20     181.761 140.896 -64.005  1.00125.73      RS18
ATOM  49567  O   ALA R  20     182.517 140.006 -63.610  1.00125.73      RS18
ATOM  49568  N   LYS R  21     180.567 140.659 -64.530  1.00 75.79      RS18
ATOM  49569  CA  LYS R  21     180.058 139.309 -64.704  1.00 75.79      RS18
ATOM  49570  CB  LYS R  21     178.707 139.155 -64.002  1.00134.24      RS18
ATOM  49571  CG  LYS R  21     178.793 138.820 -62.514  1.00134.24      RS18
ATOM  49572  CD  LYS R  21     179.453 139.910 -61.686  1.00134.24      RS18
ATOM  49573  CE  LYS R  21     179.482 139.513 -60.215  1.00134.24      RS18
ATOM  49574  NZ  LYS R  21     180.134 140.536 -59.353  1.00134.24      RS18
ATOM  49575  C   LYS R  21     179.907 139.033 -66.190  1.00 75.79      RS18
ATOM  49576  O   LYS R  21     179.539 139.924 -66.952  1.00 75.79      RS18
ATOM  49577  N   VAL R  22     180.199 137.804 -66.604  1.00 63.99      RS18
ATOM  49578  CA  VAL R  22     180.088 137.426 -68.009  1.00 63.99      RS18
ATOM  49579  CB  VAL R  22     180.238 135.903 -68.186  1.00124.06      RS18
ATOM  49580  CG1 VAL R  22     180.199 135.542 -69.660  1.00124.06      RS18
ATOM  49581  CG2 VAL R  22     181.539 135.441 -67.561  1.00124.06      RS18
ATOM  49582  C   VAL R  22     178.739 137.857 -68.593  1.00 63.99      RS18
ATOM  49583  O   VAL R  22     178.544 137.837 -69.816  1.00 63.99      RS18
ATOM  49584  N   LYS R  23     177.818 138.240 -67.707  1.00 90.26      RS18
ATOM  49585  CA  LYS R  23     176.477 138.688 -68.086  1.00 90.26      RS18
ATOM  49586  CB  LYS R  23     175.459 138.239 -67.040  1.00 94.39      RS18
ATOM  49587  CG  LYS R  23     174.045 138.679 -67.339  1.00 94.39      RS18
ATOM  49588  CD  LYS R  23     173.172 138.600 -66.101  1.00 94.39      RS18
ATOM  49589  CE  LYS R  23     171.764 139.096 -66.396  1.00 94.39      RS18
ATOM  49590  NZ  LYS R  23     170.948 139.256 -65.158  1.00 94.39      RS18
ATOM  49591  C   LYS R  23     176.430 140.211 -68.212  1.00 90.26      RS18
ATOM  49592  O   LYS R  23     175.860 140.752 -69.160  1.00 90.26      RS18
ATOM  49593  N   ALA R  24     177.021 140.896 -67.239  1.00140.45      RS18
ATOM  49594  CA  ALA R  24     177.060 142.351 -67.254  1.00140.45      RS18
ATOM  49595  CB  ALA R  24     177.865 142.868 -66.069  1.00130.86      RS18
ATOM  49596  C   ALA R  24     177.716 142.772 -68.558  1.00140.45      RS18
ATOM  49597  O   ALA R  24     177.121 143.492 -69.361  1.00140.45      RS18
ATOM  49598  N   THR R  25     178.948 142.309 -68.758  1.00137.16      RS18
ATOM  49599  CA  THR R  25     179.705 142.609 -69.967  1.00137.16      RS18
ATOM  49600  CB  THR R  25     181.198 142.276 -69.791  1.00200.96      RS18
ATOM  49601  OG1 THR R  25     181.691 142.897 -68.597  1.00200.96      RS18
ATOM  49602  CG2 THR R  25     181.996 142.785 -70.984  1.00200.96      RS18
ATOM  49603  C   THR R  25     179.136 141.733 -71.072  1.00137.16      RS18
ATOM  49604  O   THR R  25     179.733 140.725 -71.450  1.00137.16      RS18
ATOM  49605  N   LEU R  26     177.975 142.136 -71.580  1.00 68.98      RS18
ATOM  49606  CA  LEU R  26     177.262 141.402 -72.619  1.00 68.98      RS18
ATOM  49607  CB  LEU R  26     177.323 139.901 -72.326  1.00 73.99      RS18
ATOM  49608  CG  LEU R  26     176.446 138.929 -73.106  1.00 73.99      RS18
ATOM  49609  CD1 LEU R  26     176.760 139.020 -74.589  1.00 73.99      RS18
ATOM  49610  CD2 LEU R  26     176.689 137.528 -72.584  1.00 73.99      RS18
ATOM  49611  C   LEU R  26     175.816 141.877 -72.574  1.00 68.98      RS18
ATOM  49612  O   LEU R  26     175.428 142.604 -71.656  1.00 68.98      RS18
ATOM  49613  N   GLY R  27     175.023 141.468 -73.559  1.00120.47      RS18
ATOM  49614  CA  GLY R  27     173.628 141.871 -73.600  1.00120.47      RS18
ATOM  49615  C   GLY R  27     172.684 140.688 -73.541  1.00120.47      RS18
ATOM  49616  O   GLY R  27     172.787 139.852 -72.646  1.00120.47      RS18
ATOM  49617  N   GLU R  28     171.760 140.617 -74.494  1.00102.82      RS18
ATOM  49618  CA  GLU R  28     170.799 139.520 -74.543  1.00102.82      RS18
ATOM  49619  CB  GLU R  28     169.493 139.979 -75.196  1.00176.18      RS18
ATOM  49620  CG  GLU R  28     169.628 140.429 -76.643  1.00176.18      RS18
ATOM  49621  CD  GLU R  28     168.286 140.750 -77.277  1.00176.18      RS18
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ATOM  49622  OE1 GLU R  28     167.445 139.832 -77.388  1.00176.18      RS18
ATOM  49623  OE2 GLU R  28     168.072 141.920 -77.661  1.00176.18      RS18
ATOM  49624  C   GLU R  28     171.379 138.353 -75.330  1.00102.82      RS18
ATOM  49625  O   GLU R  28     172.138 138.560 -76.279  1.00102.82      RS18
ATOM  49626  N   PHE R  29     171.022 137.132 -74.933  1.00 83.03      RS18
ATOM  49627  CA  PHE R  29     171.512 135.931 -75.609  1.00 83.03      RS18
ATOM  49628  CB  PHE R  29     172.987 135.704 -75.283  1.00 77.53      RS18
ATOM  49629  CG  PHE R  29     173.248 135.401 -73.840  1.00 77.53      RS18
ATOM  49630  CD1 PHE R  29     173.190 134.096 -73.373  1.00 77.53      RS18
ATOM  49631  CD2 PHE R  29     173.551 136.428 -72.945  1.00 77.53      RS18
ATOM  49632  CE1 PHE R  29     173.432 133.815 -72.037  1.00 77.53      RS18
ATOM  49633  CE2 PHE R  29     173.795 136.159 -71.601  1.00 77.53      RS18
ATOM  49634  CZ  PHE R  29     173.736 134.848 -71.146  1.00 77.53      RS18
ATOM  49635  C   PHE R  29     170.721 134.696 -75.224  1.00 83.03      RS18
ATOM  49636  O   PHE R  29     170.136 134.634 -74.146  1.00 83.03      RS18
ATOM  49637  N   ASP R  30     170.712 133.705 -76.105  1.00 67.29      RS18
ATOM  49638  CA  ASP R  30     169.978 132.484 -75.828  1.00 67.29      RS18
ATOM  49639  CB  ASP R  30     169.493 131.839 -77.125  1.00 78.18      RS18
ATOM  49640  CG  ASP R  30     168.483 130.742 -76.878  1.00 78.18      RS18
ATOM  49641  OD1 ASP R  30     167.658 130.926 -75.961  1.00 78.18      RS18
ATOM  49642  OD2 ASP R  30     168.499 129.715 -77.593  1.00 78.18      RS18
ATOM  49643  C   ASP R  30     170.836 131.496 -75.052  1.00 67.29      RS18
ATOM  49644  O   ASP R  30     171.734 130.850 -75.607  1.00 67.29      RS18
ATOM  49645  N   LEU R  31     170.554 131.392 -73.757  1.00 68.49      RS18
ATOM  49646  CA  LEU R  31     171.279 130.490 -72.883  1.00 68.49      RS18
ATOM  49647  CB  LEU R  31     170.693 130.558 -71.475  1.00 64.10      RS18
ATOM  49648  CG  LEU R  31     171.116 131.710 -70.560  1.00 64.10      RS18
ATOM  49649  CD1 LEU R  31     170.168 131.813 -69.370  1.00 64.10      RS18
ATOM  49650  CD2 LEU R  31     172.536 131.461 -70.077  1.00 64.10      RS18
ATOM  49651  C   LEU R  31     171.204 129.060 -73.400  1.00 68.49      RS18
ATOM  49652  O   LEU R  31     172.081 128.248 -73.136  1.00 68.49      RS18
ATOM  49653  N   ARG R  32     170.162 128.750 -74.151  1.00 40.06      RS18
ATOM  49654  CA  ARG R  32     170.010 127.403 -74.652  1.00 40.06      RS18
ATOM  49655  CB  ARG R  32     168.526 127.101 -74.836  1.00 88.21      RS18
ATOM  49656  CG  ARG R  32     168.209 125.629 -74.956  1.00 88.21      RS18
ATOM  49657  CD  ARG R  32     166.775 125.365 -74.548  1.00 88.21      RS18
ATOM  49658  NE  ARG R  32     166.467 125.994 -73.266  1.00 88.21      RS18
ATOM  49659  CZ  ARG R  32     165.333 125.820 -72.594  1.00 88.21      RS18
ATOM  49660  NH1 ARG R  32     164.387 125.026 -73.079  1.00 88.21      RS18
ATOM  49661  NH2 ARG R  32     165.142 126.447 -71.440  1.00 88.21      RS18
ATOM  49662  C   ARG R  32     170.767 127.152 -75.954  1.00 40.06      RS18
ATOM  49663  O   ARG R  32     170.939 125.999 -76.372  1.00 40.06      RS18
ATOM  49664  N   ASP R  33     171.232 128.218 -76.597  1.00 82.52      RS18
ATOM  49665  CA  ASP R  33     171.957 128.063 -77.855  1.00 82.52      RS18
ATOM  49666  CB  ASP R  33     172.003 129.391 -78.611  1.00 91.37      RS18
ATOM  49667  CG  ASP R  33     172.434 129.219 -80.049  1.00 91.37      RS18
ATOM  49668  OD1 ASP R  33     171.935 128.288 -80.718  1.00 91.37      RS18
ATOM  49669  OD2 ASP R  33     173.267 130.020 -80.514  1.00 91.37      RS18
ATOM  49670  C   ASP R  33     173.371 127.511 -77.655  1.00 82.52      RS18
ATOM  49671  O   ASP R  33     174.293 128.212 -77.221  1.00 82.52      RS18
ATOM  49672  N   TYR R  34     173.521 126.237 -77.992  1.00 58.99      RS18
ATOM  49673  CA  TYR R  34     174.779 125.539 -77.844  1.00 58.99      RS18
ATOM  49674  CB  TYR R  34     174.510 124.061 -77.667  1.00 60.46      RS18
ATOM  49675  CG  TYR R  34     173.722 123.459 -78.797  1.00 60.46      RS18
ATOM  49676  CD1 TYR R  34     174.343 122.722 -79.793  1.00 60.46      RS18
ATOM  49677  CE1 TYR R  34     173.601 122.122 -80.811  1.00 60.46      RS18
ATOM  49678  CD2 TYR R  34     172.342 123.593 -78.847  1.00 60.46      RS18
ATOM  49679  CE2 TYR R  34     171.593 123.002 -79.859  1.00 60.46      RS18
ATOM  49680  CZ  TYR R  34     172.226 122.270 -80.831  1.00 60.46      RS18
ATOM  49681  OH  TYR R  34     171.477 121.695 -81.821  1.00 60.46      RS18
ATOM  49682  C   TYR R  34     175.730 125.726 -78.999  1.00 58.99      RS18
ATOM  49683  O   TYR R  34     176.812 125.151 -79.002  1.00 58.99      RS18
ATOM  49684  N   ARG R  35     175.338 126.513 -79.989  1.00 71.90      RS18
ATOM  49685  CA  ARG R  35     176.218 126.744 -81.124  1.00 71.90      RS18
ATOM  49686  CB  ARG R  35     175.456 126.537 -82.432  1.00 93.58      RS18
ATOM  49687  CG  ARG R  35     175.030 125.103 -82.662  1.00 93.58      RS18
ATOM  49688  CD  ARG R  35     174.572 124.899 -84.094  1.00 93.58      RS18
ATOM  49689  NE  ARG R  35     173.321 125.592 -84.381  1.00 93.58      RS18
ATOM  49690  CZ  ARG R  35     172.854 125.794 -85.606  1.00 93.58      RS18
ATOM  49691  NH1 ARG R  35     173.539 125.359 -86.653  1.00 93.58      RS18
ATOM  49692  NH2 ARG R  35     171.697 126.416 -85.786  1.00 93.58      RS18
ATOM  49693  C   ARG R  35     176.857 128.138 -81.098  1.00 71.90      RS18
ATOM  49694  O   ARG R  35     177.883 128.372 -81.743  1.00 71.90      RS18
ATOM  49695  N   ASN R  36     176.255 129.057 -80.348  1.00 61.81      RS18
ATOM  49696  CA  ASN R  36     176.776 130.413 -80.250  1.00 61.81      RS18
ATOM  49697  CB  ASN R  36     175.787 131.318 -79.517  1.00135.15      RS18
ATOM  49698  CG  ASN R  36     176.286 132.747 -79.396  1.00135.15      RS18
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ATOM  49699  OD1 ASN R  36     175.627 133.596 -78.794  1.00135.15       RS18
ATOM  49700  ND2 ASN R  36     177.454 133.021 -79.970  1.00135.15       RS18
ATOM  49701  C   ASN R  36     178.101 130.404 -79.508  1.00 61.81       RS18
ATOM  49702  O   ASN R  36     178.233 130.996 -78.437  1.00 61.81       RS18
ATOM  49703  N   VAL R  37     179.083 129.726 -80.082  1.00 54.97       RS18
ATOM  49704  CA  VAL R  37     180.404 129.642 -79.483  1.00 54.97       RS18
ATOM  49705  CB  VAL R  37     181.408 129.068 -80.486  1.00 72.03       RS18
ATOM  49706  CG1 VAL R  37     182.736 128.802 -79.799  1.00 72.03       RS18
ATOM  49707  CG2 VAL R  37     180.840 127.807 -81.114  1.00 72.03       RS18
ATOM  49708  C   VAL R  37     180.899 131.020 -79.042  1.00 54.97       RS18
ATOM  49709  O   VAL R  37     181.487 131.175 -77.974  1.00 54.97       RS18
ATOM  49710  N   GLU R  38     180.647 132.022 -79.873  1.00 84.32       RS18
ATOM  49711  CA  GLU R  38     181.077 133.381 -79.582  1.00 84.32       RS18
ATOM  49712  CB  GLU R  38     180.400 134.356 -80.547  1.00200.96       RS18
ATOM  49713  CG  GLU R  38     180.612 134.014 -82.014  1.00200.96       RS18
ATOM  49714  CD  GLU R  38     182.077 133.827 -82.368  1.00200.96       RS18
ATOM  49715  OE1 GLU R  38     182.691 132.852 -81.884  1.00200.96       RS18
ATOM  49716  OE2 GLU R  38     182.617 134.656 -83.129  1.00200.96       RS18
ATOM  49717  C   GLU R  38     180.807 133.808 -78.144  1.00 84.32       RS18
ATOM  49718  O   GLU R  38     181.728 134.158 -77.415  1.00 84.32       RS18
ATOM  49719  N   VAL R  39     179.547 133.767 -77.732  1.00 59.84       RS18
ATOM  49720  CA  VAL R  39     179.194 134.184 -76.385  1.00 59.84       RS18
ATOM  49721  CB  VAL R  39     177.734 134.704 -76.342  1.00 80.02       RS18
ATOM  49722  CG1 VAL R  39     176.767 133.544 -76.234  1.00 80.02       RS18
ATOM  49723  CG2 VAL R  39     177.559 135.671 -75.193  1.00 80.02       RS18
ATOM  49724  C   VAL R  39     179.380 133.079 -75.341  1.00 59.84       RS18
ATOM  49725  O   VAL R  39     179.610 133.367 -74.164  1.00 59.84       RS18
ATOM  49726  N   LEU R  40     179.283 131.820 -75.759  1.00 57.75       RS18
ATOM  49727  CA  LEU R  40     179.455 130.727 -74.816  1.00 57.75       RS18
ATOM  49728  CB  LEU R  40     179.224 129.380 -75.492  1.00 56.86       RS18
ATOM  49729  CG  LEU R  40     177.771 129.166 -75.930  1.00 56.86       RS18
ATOM  49730  CD1 LEU R  40     177.584 127.772 -76.517  1.00 56.86       RS18
ATOM  49731  CD2 LEU R  40     176.853 129.358 -74.737  1.00 56.86       RS18
ATOM  49732  C   LEU R  40     180.853 130.795 -74.234  1.00 57.75       RS18
ATOM  49733  O   LEU R  40     181.036 130.660 -73.025  1.00 57.75       RS18
ATOM  49734  N   LYS R  41     181.840 131.028 -75.091  1.00 66.33       RS18
ATOM  49735  CA  LYS R  41     183.219 131.132 -74.637  1.00 66.33       RS18
ATOM  49736  CB  LYS R  41     184.097 131.708 -75.748  1.00 92.76       RS18
ATOM  49737  CG  LYS R  41     184.161 130.851 -76.994  1.00 92.76       RS18
ATOM  49738  CD  LYS R  41     185.089 131.455 -78.042  1.00 92.76       RS18
ATOM  49739  CE  LYS R  41     184.597 132.819 -78.537  1.00 92.76       RS18
ATOM  49740  NZ  LYS R  41     185.532 133.459 -79.522  1.00 92.76       RS18
ATOM  49741  C   LYS R  41     183.294 132.039 -73.406  1.00 66.33       RS18
ATOM  49742  O   LYS R  41     183.862 131.675 -72.371  1.00 66.33       RS18
ATOM  49743  N   ARG R  42     182.702 133.219 -73.528  1.00 66.65       RS18
ATOM  49744  CA  ARG R  42     182.706 134.190 -72.450  1.00 66.65       RS18
ATOM  49745  CB  ARG R  42     181.647 135.258 -72.716  1.00200.96       RS18
ATOM  49746  CG  ARG R  42     182.220 136.652 -72.851  1.00200.96       RS18
ATOM  49747  CD  ARG R  42     182.900 137.083 -71.560  1.00200.96       RS18
ATOM  49748  NE  ARG R  42     183.635 138.335 -71.713  1.00200.96       RS18
ATOM  49749  CZ  ARG R  42     183.092 139.482 -72.109  1.00200.96       RS18
ATOM  49750  NH1 ARG R  42     181.798 139.543 -72.397  1.00200.96       RS18
ATOM  49751  NH2 ARG R  42     183.844 140.569 -72.219  1.00200.96       RS18
ATOM  49752  C   ARG R  42     182.479 133.569 -71.074  1.00 66.65       RS18
ATOM  49753  O   ARG R  42     182.983 134.077 -70.069  1.00 66.65       RS18
ATOM  49754  N   PHE R  43     181.737 132.466 -71.028  1.00 67.98       RS18
ATOM  49755  CA  PHE R  43     181.434 131.820 -69.758  1.00 67.98       RS18
ATOM  49756  CB  PHE R  43     180.058 131.172 -69.815  1.00 69.11       RS18
ATOM  49757  CG  PHE R  43     178.942 132.161 -69.825  1.00 69.11       RS18
ATOM  49758  CD1 PHE R  43     178.249 132.439 -70.999  1.00 69.11       RS18
ATOM  49759  CD2 PHE R  43     178.612 132.856 -68.664  1.00 69.11       RS18
ATOM  49760  CE1 PHE R  43     177.243 133.395 -71.020  1.00 69.11       RS18
ATOM  49761  CE2 PHE R  43     177.610 133.813 -68.674  1.00 69.11       RS18
ATOM  49762  CZ  PHE R  43     176.923 134.084 -69.856  1.00 69.11       RS18
ATOM  49763  C   PHE R  43     182.437 130.803 -69.266  1.00 67.98       RS18
ATOM  49764  O   PHE R  43     182.172 130.090 -68.298  1.00 67.98       RS18
ATOM  49765  N   LEU R  44     183.590 130.732 -69.918  1.00 60.07       RS18
ATOM  49766  CA  LEU R  44     184.617 129.789 -69.499  1.00 60.07       RS18
ATOM  49767  CB  LEU R  44     185.149 129.026 -70.698  1.00 56.47       RS18
ATOM  49768  CG  LEU R  44     184.122 128.054 -71.255  1.00 56.47       RS18
ATOM  49769  CD1 LEU R  44     184.649 127.376 -72.514  1.00 56.47       RS18
ATOM  49770  CD2 LEU R  44     183.813 127.034 -70.179  1.00 56.47       RS18
ATOM  49771  C   LEU R  44     185.763 130.476 -68.790  1.00 60.07       RS18
ATOM  49772  O   LEU R  44     186.011 131.666 -68.981  1.00 60.07       RS18
ATOM  49773  N   SER R  45     186.462 129.723 -67.959  1.00 47.64       RS18
ATOM  49774  CA  SER R  45     187.591 130.286 -67.244  1.00 47.64       RS18
ATOM  49775  CB  SER R  45     187.972 129.389 -66.060  1.00 71.09       RS18
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ATOM  49776  OG  SER R  45     188.108 128.036 -66.452  1.00 71.09      RS18
ATOM  49777  C   SER R  45     188.787 130.450 -68.180  1.00 47.64      RS18
ATOM  49778  O   SER R  45     188.694 130.199 -69.391  1.00 47.64      RS18
ATOM  49779  N   GLU R  46     189.910 130.889 -67.618  1.00100.24      RS18
ATOM  49780  CA  GLU R  46     191.133 131.053 -68.391  1.00100.24      RS18
ATOM  49781  CB  GLU R  46     192.271 131.504 -67.475  1.00200.96      RS18
ATOM  49782  CG  GLU R  46     192.003 132.834 -66.761  1.00200.96      RS18
ATOM  49783  CD  GLU R  46     190.765 132.801 -65.866  1.00200.96      RS18
ATOM  49784  OE1 GLU R  46     190.735 131.996 -64.910  1.00200.96      RS18
ATOM  49785  OE2 GLU R  46     189.821 133.582 -66.119  1.00200.96      RS18
ATOM  49786  C   GLU R  46     191.389 129.657 -68.943  1.00100.24      RS18
ATOM  49787  O   GLU R  46     192.210 129.451 -69.832  1.00100.24      RS18
ATOM  49788  N   THR R  47     190.651 128.704 -68.382  1.00 76.31      RS18
ATOM  49789  CA  THR R  47     190.686 127.308 -68.779  1.00 76.31      RS18
ATOM  49790  CB  THR R  47     191.133 126.441 -67.645  1.00 42.79      RS18
ATOM  49791  OG1 THR R  47     192.433 126.863 -67.219  1.00 42.79      RS18
ATOM  49792  CG2 THR R  47     191.143 124.978 -68.086  1.00 42.79      RS18
ATOM  49793  C   THR R  47     189.258 126.905 -69.154  1.00 76.31      RS18
ATOM  49794  O   THR R  47     188.297 127.508 -68.683  1.00 76.31      RS18
ATOM  49795  N   GLY R  48     189.116 125.885 -69.989  1.00100.12      RS18
ATOM  49796  CA  GLY R  48     187.791 125.465 -70.418  1.00100.12      RS18
ATOM  49797  C   GLY R  48     186.769 125.178 -69.333  1.00100.12      RS18
ATOM  49798  O   GLY R  48     185.678 124.694 -69.627  1.00100.12      RS18
ATOM  49799  N   LYS R  49     187.106 125.482 -68.085  1.00 68.32      RS18
ATOM  49800  CA  LYS R  49     186.204 125.223 -66.972  1.00 68.32      RS18
ATOM  49801  CB  LYS R  49     186.970 125.319 -65.654  1.00 68.86      RS18
ATOM  49802  CG  LYS R  49     188.118 124.327 -65.560  1.00 68.86      RS18
ATOM  49803  CD  LYS R  49     188.622 124.173 -64.139  1.00 68.86      RS18
ATOM  49804  CE  LYS R  49     189.536 122.957 -64.001  1.00 68.86      RS18
ATOM  49805  NZ  LYS R  49     189.863 122.660 -62.570  1.00 68.86      RS18
ATOM  49806  C   LYS R  49     185.013 126.161 -66.950  1.00 68.32      RS18
ATOM  49807  O   LYS R  49     185.161 127.357 -67.202  1.00 68.32      RS18
ATOM  49808  N   ILE R  50     183.834 125.608 -66.655  1.00 42.08      RS18
ATOM  49809  CA  ILE R  50     182.598 126.386 -66.588  1.00 42.08      RS18
ATOM  49810  CB  ILE R  50     181.371 125.509 -66.353  1.00 31.76      RS18
ATOM  49811  CG2 ILE R  50     180.126 126.383 -66.293  1.00 31.76      RS18
ATOM  49812  CG1 ILE R  50     181.238 124.477 -67.468  1.00 31.76      RS18
ATOM  49813  CD1 ILE R  50     180.160 123.440 -67.205  1.00 31.76      RS18
ATOM  49814  C   ILE R  50     182.676 127.328 -65.413  1.00 42.08      RS18
ATOM  49815  O   ILE R  50     182.818 126.891 -64.274  1.00 42.08      RS18
ATOM  49816  N   LEU R  51     182.568 128.621 -65.677  1.00 43.48      RS18
ATOM  49817  CA  LEU R  51     182.644 129.598 -64.604  1.00 43.48      RS18
ATOM  49818  CB  LEU R  51     182.563 130.998 -65.184  1.00 42.87      RS18
ATOM  49819  CG  LEU R  51     183.799 131.398 -65.968  1.00 42.87      RS18
ATOM  49820  CD1 LEU R  51     183.460 132.577 -66.862  1.00 42.87      RS18
ATOM  49821  CD2 LEU R  51     184.919 131.729 -64.995  1.00 42.87      RS18
ATOM  49822  C   LEU R  51     181.572 129.429 -63.535  1.00 43.48      RS18
ATOM  49823  O   LEU R  51     180.493 128.892 -63.788  1.00 43.48      RS18
ATOM  49824  N   PRO R  52     181.865 129.894 -62.316  1.00 46.67      RS18
ATOM  49825  CD  PRO R  52     183.146 130.475 -61.902  1.00 45.42      RS18
ATOM  49826  CA  PRO R  52     180.950 129.816 -61.177  1.00 46.67      RS18
ATOM  49827  CB  PRO R  52     181.843 130.131 -59.982  1.00 45.42      RS18
ATOM  49828  CG  PRO R  52     183.246 129.975 -60.509  1.00 45.42      RS18
ATOM  49829  C   PRO R  52     179.896 130.888 -61.339  1.00 46.67      RS18
ATOM  49830  O   PRO R  52     180.186 131.955 -61.873  1.00 46.67      RS18
ATOM  49831  N   ARG R  53     178.680 130.622 -60.879  1.00 86.74      RS18
ATOM  49832  CA  ARG R  53     177.642 131.630 -60.975  1.00 86.74      RS18
ATOM  49833  CB  ARG R  53     176.367 131.165 -60.271  1.00 83.71      RS18
ATOM  49834  CG  ARG R  53     175.133 131.936 -60.714  1.00 83.71      RS18
ATOM  49835  CD  ARG R  53     174.107 132.083 -59.605  1.00 83.71      RS18
ATOM  49836  NE  ARG R  53     173.759 130.803 -59.007  1.00 83.71      RS18
ATOM  49837  CZ  ARG R  53     172.827 130.652 -58.076  1.00 83.71      RS18
ATOM  49838  NH1 ARG R  53     172.149 131.707 -57.644  1.00 83.71      RS18
ATOM  49839  NH2 ARG R  53     172.580 129.449 -57.576  1.00 83.71      RS18
ATOM  49840  C   ARG R  53     178.221 132.861 -60.263  1.00 86.74      RS18
ATOM  49841  O   ARG R  53     177.893 134.008 -60.588  1.00 86.74      RS18
ATOM  49842  N   ARG R  54     179.096 132.600 -59.293  1.00 52.61      RS18
ATOM  49843  CA  ARG R  54     179.751 133.656 -58.538  1.00 52.61      RS18
ATOM  49844  CB  ARG R  54     180.924 133.097 -57.733  1.00200.96      RS18
ATOM  49845  CG  ARG R  54     180.548 132.307 -56.497  1.00200.96      RS18
ATOM  49846  CD  ARG R  54     181.790 131.770 -55.786  1.00200.96      RS18
ATOM  49847  NE  ARG R  54     182.794 132.806 -55.534  1.00200.96      RS18
ATOM  49848  CZ  ARG R  54     183.730 133.184 -56.403  1.00200.96      RS18
ATOM  49849  NH1 ARG R  54     183.806 132.611 -57.597  1.00200.96      RS18
ATOM  49850  NH2 ARG R  54     184.592 134.138 -56.079  1.00200.96      RS18
ATOM  49851  C   ARG R  54     180.278 134.718 -59.479  1.00 52.61      RS18
ATOM  49852  O   ARG R  54     180.277 135.890 -59.140  1.00 52.61      RS18
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ATOM  49853  N   ARG R  55     180.727 134.308 -60.663  1.00 62.70      RS18
ATOM  49854  CA  ARG R  55     181.272 135.259 -61.625  1.00 62.70      RS18
ATOM  49855  CB  ARG R  55     182.779 135.065 -61.767  1.00144.12      RS18
ATOM  49856  CG  ARG R  55     183.539 135.239 -60.473  1.00144.12      RS18
ATOM  49857  CD  ARG R  55     184.952 135.751 -60.704  1.00144.12      RS18
ATOM  49858  NE  ARG R  55     185.691 134.975 -61.697  1.00144.12      RS18
ATOM  49859  CZ  ARG R  55     185.591 135.143 -63.012  1.00144.12      RS18
ATOM  49860  NH1 ARG R  55     184.776 136.066 -63.511  1.00144.12      RS18
ATOM  49861  NH2 ARG R  55     186.316 134.392 -63.831  1.00144.12      RS18
ATOM  49862  C   ARG R  55     180.648 135.264 -63.011  1.00 62.70      RS18
ATOM  49863  O   ARG R  55     181.058 136.048 -63.860  1.00 62.70      RS18
ATOM  49864  N   THR R  56     179.686 134.388 -63.264  1.00 40.71      RS18
ATOM  49865  CA  THR R  56     179.038 134.389 -64.567  1.00 40.71      RS18
ATOM  49866  CB  THR R  56     178.523 132.995 -65.004  1.00 44.96      RS18
ATOM  49867  OG1 THR R  56     177.399 132.611 -64.199  1.00 44.96      RS18
ATOM  49868  CG2 THR R  56     179.616 131.967 -64.881  1.00 44.96      RS18
ATOM  49869  C   THR R  56     177.840 135.298 -64.403  1.00 40.71      RS18
ATOM  49870  O   THR R  56     177.121 135.576 -65.365  1.00 40.71      RS18
ATOM  49871  N   GLY R  57     177.631 135.745 -63.165  1.00 82.55      RS18
ATOM  49872  CA  GLY R  57     176.526 136.635 -62.853  1.00 82.55      RS18
ATOM  49873  C   GLY R  57     175.141 136.032 -62.981  1.00 82.55      RS18
ATOM  49874  O   GLY R  57     174.166 136.599 -62.490  1.00 82.55      RS18
ATOM  49875  N   LEU R  58     175.048 134.886 -63.643  1.00 60.91      RS18
ATOM  49876  CA  LEU R  58     173.769 134.221 -63.831  1.00 60.91      RS18
ATOM  49877  CB  LEU R  58     173.971 132.924 -64.611  1.00 66.73      RS18
ATOM  49878  CG  LEU R  58     174.388 133.050 -66.073  1.00 66.73      RS18
ATOM  49879  CD1 LEU R  58     174.517 131.665 -66.673  1.00 66.73      RS18
ATOM  49880  CD2 LEU R  58     173.357 133.853 -66.838  1.00 66.73      RS18
ATOM  49881  C   LEU R  58     173.038 133.918 -62.520  1.00 60.91      RS18
ATOM  49882  O   LEU R  58     173.384 134.434 -61.454  1.00 60.91      RS18
ATOM  49883  N   SER R  59     172.028 133.062 -62.618  1.00 61.65      RS18
ATOM  49884  CA  SER R  59     171.220 132.670 -61.475  1.00 61.65      RS18
ATOM  49885  CB  SER R  59     169.810 133.216 -61.634  1.00 49.50      RS18
ATOM  49886  OG  SER R  59     169.151 132.544 -62.694  1.00 49.50      RS18
ATOM  49887  C   SER R  59     171.130 131.153 -61.365  1.00 61.65      RS18
ATOM  49888  O   SER R  59     171.400 130.431 -62.329  1.00 61.65      RS18
ATOM  49889  N   GLY R  60     170.727 130.677 -60.190  1.00 50.22      RS18
ATOM  49890  CA  GLY R  60     170.588 129.253 -59.990  1.00 50.22      RS18
ATOM  49891  C   GLY R  60     170.017 128.632 -61.245  1.00 50.22      RS18
ATOM  49892  O   GLY R  60     170.632 127.752 -61.846  1.00 50.22      RS18
ATOM  49893  N   LYS R  61     168.857 129.121 -61.672  1.00 48.90      RS18
ATOM  49894  CA  LYS R  61     168.207 128.574 -62.854  1.00 48.90      RS18
ATOM  49895  CB  LYS R  61     166.796 129.134 -63.007  1.00 64.93      RS18
ATOM  49896  CG  LYS R  61     166.023 128.471 -64.138  1.00 64.93      RS18
ATOM  49897  CD  LYS R  61     164.601 128.984 -64.217  1.00 64.93      RS18
ATOM  49898  CE  LYS R  61     163.797 128.221 -65.250  1.00 64.93      RS18
ATOM  49899  NZ  LYS R  61     162.377 128.669 -65.288  1.00 64.93      RS18
ATOM  49900  C   LYS R  61     168.957 128.782 -64.154  1.00 48.90      RS18
ATOM  49901  O   LYS R  61     169.151 127.838 -64.914  1.00 48.90      RS18
ATOM  49902  N   GLU R  62     169.362 130.014 -64.425  1.00 67.05      RS18
ATOM  49903  CA  GLU R  62     170.078 130.295 -65.663  1.00 67.05      RS18
ATOM  49904  CB  GLU R  62     170.333 131.798 -65.809  1.00 93.13      RS18
ATOM  49905  CG  GLU R  62     169.087 132.659 -65.804  1.00 93.13      RS18
ATOM  49906  CD  GLU R  62     169.411 134.139 -65.883  1.00 93.13      RS18
ATOM  49907  OE1 GLU R  62     170.185 134.628 -65.026  1.00 93.13      RS18
ATOM  49908  OE2 GLU R  62     168.889 134.813 -66.800  1.00 93.13      RS18
ATOM  49909  C   GLU R  62     171.410 129.556 -65.678  1.00 67.05      RS18
ATOM  49910  O   GLU R  62     171.734 128.845 -66.630  1.00 67.05      RS18
ATOM  49911  N   GLN R  63     172.176 129.740 -64.610  1.00 53.73      RS18
ATOM  49912  CA  GLN R  63     173.478 129.119 -64.467  1.00 53.73      RS18
ATOM  49913  CB  GLN R  63     173.990 129.346 -63.046  1.00 55.34      RS18
ATOM  49914  CG  GLN R  63     175.302 128.671 -62.718  1.00 55.34      RS18
ATOM  49915  CD  GLN R  63     176.399 129.074 -63.661  1.00 55.34      RS18
ATOM  49916  OE1 GLN R  63     176.541 130.249 -63.993  1.00 55.34      RS18
ATOM  49917  NE2 GLN R  63     177.194 128.105 -64.093  1.00 55.34      RS18
ATOM  49918  C   GLN R  63     173.355 127.635 -64.746  1.00 53.73      RS18
ATOM  49919  O   GLN R  63     174.269 127.011 -65.284  1.00 53.73      RS18
ATOM  49920  N   ARG R  64     172.202 127.081 -64.388  1.00 51.01      RS18
ATOM  49921  CA  ARG R  64     171.945 125.660 -64.568  1.00 51.01      RS18
ATOM  49922  CB  ARG R  64     170.663 125.259 -63.841  1.00 42.75      RS18
ATOM  49923  CG  ARG R  64     170.568 123.768 -63.572  1.00 42.75      RS18
ATOM  49924  CD  ARG R  64     169.260 123.409 -62.921  1.00 42.75      RS18
ATOM  49925  NE  ARG R  64     168.951 124.319 -61.831  1.00 42.75      RS18
ATOM  49926  CZ  ARG R  64     167.760 124.883 -61.654  1.00 42.75      RS18
ATOM  49927  NH1 ARG R  64     166.755 124.637 -62.494  1.00 42.75      RS18
ATOM  49928  NH2 ARG R  64     167.578 125.704 -60.638  1.00 42.75      RS18
ATOM  49929  C   ARG R  64     171.838 125.264 -66.026  1.00 51.01      RS18
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ATOM  49930  O   ARG R  64     172.379 124.244 -66.429  1.00 51.01      RS18
ATOM  49931  N   ILE R  65     171.134 126.076 -66.807  1.00 52.94      RS18
ATOM  49932  CA  ILE R  65     170.937 125.826 -68.237  1.00 52.94      RS18
ATOM  49933  CB  ILE R  65     169.884 126.775 -68.810  1.00 68.15      RS18
ATOM  49934  CG2 ILE R  65     169.490 126.318 -70.194  1.00 68.15      RS18
ATOM  49935  CG1 ILE R  65     168.663 126.794 -67.891  1.00 68.15      RS18
ATOM  49936  CD1 ILE R  65     167.634 127.818 -68.255  1.00 68.15      RS18
ATOM  49937  C   ILE R  65     172.237 126.018 -69.008  1.00 52.94      RS18
ATOM  49938  O   ILE R  65     172.531 125.280 -69.943  1.00 52.94      RS18
ATOM  49939  N   LEU R  66     173.004 127.024 -68.608  1.00 54.36      RS18
ATOM  49940  CA  LEU R  66     174.281 127.306 -69.235  1.00 54.36      RS18
ATOM  49941  CB  LEU R  66     175.016 128.394 -68.463  1.00 58.29      RS18
ATOM  49942  CG  LEU R  66     176.442 128.692 -68.920  1.00 58.29      RS18
ATOM  49943  CD1 LEU R  66     176.391 129.390 -70.260  1.00 58.29      RS18
ATOM  49944  CD2 LEU R  66     177.138 129.591 -67.918  1.00 58.29      RS18
ATOM  49945  C   LEU R  66     175.097 126.035 -69.174  1.00 54.36      RS18
ATOM  49946  O   LEU R  66     175.507 125.486 -70.194  1.00 54.36      RS18
ATOM  49947  N   ALA R  67     175.312 125.576 -67.950  1.00 43.48      RS18
ATOM  49948  CA  ALA R  67     176.086 124.373 -67.682  1.00 43.48      RS18
ATOM  49949  CB  ALA R  67     175.819 123.897 -66.254  1.00 49.15      RS18
ATOM  49950  C   ALA R  67     175.802 123.245 -68.664  1.00 43.48      RS18
ATOM  49951  O   ALA R  67     176.716 122.600 -69.160  1.00 43.48      RS18
ATOM  49952  N   LYS R  68     174.532 123.015 -68.952  1.00 42.40      RS18
ATOM  49953  CA  LYS R  68     174.166 121.942 -69.851  1.00 42.40      RS18
ATOM  49954  CB  LYS R  68     172.725 121.518 -69.588  1.00100.46      RS18
ATOM  49955  CG  LYS R  68     172.440 120.078 -69.945  1.00100.46      RS18
ATOM  49956  CD  LYS R  68     171.133 119.632 -69.327  1.00100.46      RS18
ATOM  49957  CE  LYS R  68     170.888 118.157 -69.565  1.00100.46      RS18
ATOM  49958  NZ  LYS R  68     169.619 117.703 -68.933  1.00100.46      RS18
ATOM  49959  C   LYS R  68     174.345 122.343 -71.308  1.00 42.40      RS18
ATOM  49960  O   LYS R  68     174.589 121.499 -72.165  1.00 42.40      RS18
ATOM  49961  N   THR R  69     174.225 123.628 -71.606  1.00 60.90      RS18
ATOM  49962  CA  THR R  69     174.401 124.051 -72.984  1.00 60.90      RS18
ATOM  49963  CB  THR R  69     173.884 125.486 -73.188  1.00 61.98      RS18
ATOM  49964  OG1 THR R  69     172.463 125.452 -73.395  1.00 61.98      RS18
ATOM  49965  CG2 THR R  69     174.546 126.127 -74.384  1.00 61.98      RS18
ATOM  49966  C   THR R  69     175.883 123.939 -73.332  1.00 60.90      RS18
ATOM  49967  O   THR R  69     176.251 123.320 -74.339  1.00 60.90      RS18
ATOM  49968  N   ILE R  70     176.728 124.523 -72.486  1.00 49.04      RS18
ATOM  49969  CA  ILE R  70     178.177 124.471 -72.672  1.00 49.04      RS18
ATOM  49970  CB  ILE R  70     178.897 125.026 -71.444  1.00 42.90      RS18
ATOM  49971  CG2 ILE R  70     180.369 124.682 -71.496  1.00 42.90      RS18
ATOM  49972  CG1 ILE R  70     178.667 126.529 -71.358  1.00 42.90      RS18
ATOM  49973  CD1 ILE R  70     179.184 127.155 -70.089  1.00 42.90      RS18
ATOM  49974  C   ILE R  70     178.631 123.029 -72.884  1.00 49.04      RS18
ATOM  49975  O   ILE R  70     179.463 122.749 -73.751  1.00 49.04      RS18
ATOM  49976  N   LYS R  71     178.081 122.120 -72.082  1.00 56.88      RS18
ATOM  49977  CA  LYS R  71     178.421 120.711 -72.180  1.00 56.88      RS18
ATOM  49978  CB  LYS R  71     177.722 119.906 -71.089  1.00 53.40      RS18
ATOM  49979  CG  LYS R  71     178.366 120.070 -69.730  1.00 53.40      RS18
ATOM  49980  CD  LYS R  71     177.605 119.345 -68.645  1.00 53.40      RS18
ATOM  49981  CE  LYS R  71     178.022 119.862 -67.279  1.00 53.40      RS18
ATOM  49982  NZ  LYS R  71     177.044 119.478 -66.224  1.00 53.40      RS18
ATOM  49983  C   LYS R  71     178.055 120.144 -73.533  1.00 56.88      RS18
ATOM  49984  O   LYS R  71     178.682 119.189 -73.994  1.00 56.88      RS18
ATOM  49985  N   ARG R  72     177.043 120.724 -74.172  1.00 67.58      RS18
ATOM  49986  CA  ARG R  72     176.611 120.253 -75.487  1.00 67.58      RS18
ATOM  49987  CB  ARG R  72     175.233 120.810 -75.836  1.00 70.40      RS18
ATOM  49988  CG  ARG R  72     174.080 120.042 -75.230  1.00 70.40      RS18
ATOM  49989  CD  ARG R  72     172.760 120.731 -75.512  1.00 70.40      RS18
ATOM  49990  NE  ARG R  72     171.651 119.787 -75.519  1.00 70.40      RS18
ATOM  49991  CZ  ARG R  72     170.402 120.110 -75.826  1.00 70.40      RS18
ATOM  49992  NH1 ARG R  72     170.102 121.359 -76.149  1.00 70.40      RS18
ATOM  49993  NH2 ARG R  72     169.455 119.180 -75.821  1.00 70.40      RS18
ATOM  49994  C   ARG R  72     177.605 120.696 -76.536  1.00 67.58      RS18
ATOM  49995  O   ARG R  72     178.012 119.913 -77.401  1.00 67.58      RS18
ATOM  49996  N   ALA R  73     177.989 121.965 -76.449  1.00 66.72      RS18
ATOM  49997  CA  ALA R  73     178.934 122.532 -77.389  1.00 66.72      RS18
ATOM  49998  CB  ALA R  73     179.182 123.981 -77.062  1.00 44.28      RS18
ATOM  49999  C   ALA R  73     180.223 121.740 -77.310  1.00 66.72      RS18
ATOM  50000  O   ALA R  73     180.777 121.349 -78.332  1.00 66.72      RS18
ATOM  50001  N   ARG R  74     180.694 121.490 -76.094  1.00 40.27      RS18
ATOM  50002  CA  ARG R  74     181.920 120.725 -75.913  1.00 40.27      RS18
ATOM  50003  CB  ARG R  74     182.120 120.410 -74.442  1.00 34.57      RS18
ATOM  50004  CG  ARG R  74     182.626 121.558 -73.617  1.00 34.57      RS18
ATOM  50005  CD  ARG R  74     182.604 121.144 -72.157  1.00 34.57      RS18
ATOM  50006  NE  ARG R  74     183.360 122.018 -71.271  1.00 34.57      RS18
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ATOM  50007  CZ  ARG R  74     183.443 121.810 -69.965  1.00 34.57      RS18
ATOM  50008  NH1 ARG R  74     182.811 120.771 -69.438  1.00 34.57      RS18
ATOM  50009  NH2 ARG R  74     184.164 122.610 -69.192  1.00 34.57      RS18
ATOM  50010  C   ARG R  74     181.925 119.413 -76.716  1.00 40.27      RS18
ATOM  50011  O   ARG R  74     182.893 119.090 -77.412  1.00 40.27      RS18
ATOM  50012  N   ILE R  75     180.848 118.649 -76.625  1.00 59.74      RS18
ATOM  50013  CA  ILE R  75     180.803 117.399 -77.352  1.00 59.74      RS18
ATOM  50014  CB  ILE R  75     179.547 116.628 -77.008  1.00 58.65      RS18
ATOM  50015  CG2 ILE R  75     179.462 115.378 -77.863  1.00 58.65      RS18
ATOM  50016  CG1 ILE R  75     179.572 116.296 -75.515  1.00 58.65      RS18
ATOM  50017  CD1 ILE R  75     178.490 115.341 -75.063  1.00 58.65      RS18
ATOM  50018  C   ILE R  75     180.884 117.622 -78.857  1.00 59.74      RS18
ATOM  50019  O   ILE R  75     181.496 116.832 -79.580  1.00 59.74      RS18
ATOM  50020  N   LEU R  76     180.264 118.698 -79.325  1.00 56.06      RS18
ATOM  50021  CA  LEU R  76     180.296 119.028 -80.738  1.00 56.06      RS18
ATOM  50022  CB  LEU R  76     179.254 120.081 -81.060  1.00 62.21      RS18
ATOM  50023  CG  LEU R  76     177.800 119.669 -81.136  1.00 62.21      RS18
ATOM  50024  CD1 LEU R  76     176.987 120.882 -81.573  1.00 62.21      RS18
ATOM  50025  CD2 LEU R  76     177.649 118.528 -82.123  1.00 62.21      RS18
ATOM  50026  C   LEU R  76     181.664 119.587 -81.090  1.00 56.06      RS18
ATOM  50027  O   LEU R  76     181.964 119.831 -82.255  1.00 56.06      RS18
ATOM  50028  N   GLY R  77     182.484 119.818 -80.073  1.00 71.27      RS18
ATOM  50029  CA  GLY R  77     183.816 120.337 -80.311  1.00 71.27      RS18
ATOM  50030  C   GLY R  77     183.891 121.825 -80.578  1.00 71.27      RS18
ATOM  50031  O   GLY R  77     184.835 122.295 -81.210  1.00 71.27      RS18
ATOM  50032  N   LEU R  78     182.902 122.576 -80.113  1.00 71.17      RS18
ATOM  50033  CA  LEU R  78     182.916 124.015 -80.314  1.00 71.17      RS18
ATOM  50034  CB  LEU R  78     181.499 124.562 -80.386  1.00 57.83      RS18
ATOM  50035  CG  LEU R  78     180.663 123.919 -81.484  1.00 57.83      RS18
ATOM  50036  CD1 LEU R  78     179.267 124.512 -81.475  1.00 57.83      RS18
ATOM  50037  CD2 LEU R  78     181.341 124.132 -82.826  1.00 57.83      RS18
ATOM  50038  C   LEU R  78     183.650 124.648 -79.153  1.00 71.17      RS18
ATOM  50039  O   LEU R  78     184.352 125.639 -79.324  1.00 71.17      RS18
ATOM  50040  N   LEU R  79     183.482 124.072 -77.968  1.00 62.98      RS18
ATOM  50041  CA  LEU R  79     184.148 124.566 -76.770  1.00 62.98      RS18
ATOM  50042  CB  LEU R  79     183.129 124.957 -75.709  1.00 81.51      RS18
ATOM  50043  CG  LEU R  79     182.412 126.292 -75.857  1.00 81.51      RS18
ATOM  50044  CD1 LEU R  79     181.395 126.419 -74.735  1.00 81.51      RS18
ATOM  50045  CD2 LEU R  79     183.415 127.440 -75.802  1.00 81.51      RS18
ATOM  50046  C   LEU R  79     185.036 123.470 -76.218  1.00 62.98      RS18
ATOM  50047  O   LEU R  79     184.774 122.291 -76.422  1.00 62.98      RS18
ATOM  50048  N   PRO R  80     186.091 123.843 -75.495  1.00 38.81      RS18
ATOM  50049  CD  PRO R  80     186.458 125.230 -75.180  1.00 26.36      RS18
ATOM  50050  CA  PRO R  80     187.046 122.912 -74.893  1.00 38.81      RS18
ATOM  50051  CB  PRO R  80     188.239 123.807 -74.606  1.00 26.36      RS18
ATOM  50052  CG  PRO R  80     187.574 125.050 -74.148  1.00 26.36      RS18
ATOM  50053  C   PRO R  80     186.539 122.253 -73.609  1.00 38.81      RS18
ATOM  50054  O   PRO R  80     185.521 122.661 -73.044  1.00 38.81      RS18
ATOM  50055  N   PHE R  81     187.255 121.231 -73.152  1.00 72.99      RS18
ATOM  50056  CA  PHE R  81     186.899 120.562 -71.910  1.00 72.99      RS18
ATOM  50057  CB  PHE R  81     187.046 119.044 -72.025  1.00 63.61      RS18
ATOM  50058  CG  PHE R  81     185.979 118.393 -72.845  1.00 63.61      RS18
ATOM  50059  CD1 PHE R  81     186.018 118.437 -74.231  1.00 63.61      RS18
ATOM  50060  CD2 PHE R  81     184.918 117.748 -72.234  1.00 63.61      RS18
ATOM  50061  CE1 PHE R  81     185.007 117.844 -74.997  1.00 63.61      RS18
ATOM  50062  CE2 PHE R  81     183.905 117.155 -72.992  1.00 63.61      RS18
ATOM  50063  CZ  PHE R  81     183.952 117.205 -74.372  1.00 63.61      RS18
ATOM  50064  C   PHE R  81     187.871 121.084 -70.870  1.00 72.99      RS18
ATOM  50065  O   PHE R  81     187.539 121.192 -69.691  1.00 72.99      RS18
ATOM  50066  N   THR R  82     189.076 121.413 -71.328  1.00 69.28      RS18
ATOM  50067  CA  THR R  82     190.123 121.929 -70.458  1.00 69.28      RS18
ATOM  50068  CB  THR R  82     190.822 120.804 -69.704  1.00103.73      RS18
ATOM  50069  OG1 THR R  82     191.805 121.362 -68.826  1.00103.73      RS18
ATOM  50070  CG2 THR R  82     191.505 119.868 -70.679  1.00103.73      RS18
ATOM  50071  C   THR R  82     191.178 122.663 -71.273  1.00 69.28      RS18
ATOM  50072  O   THR R  82     191.467 122.276 -72.404  1.00 69.28      RS18
ATOM  50073  N   GLU R  83     191.746 123.718 -70.687  1.00 75.19      RS18
ATOM  50074  CA  GLU R  83     192.776 124.530 -71.336  1.00 75.19      RS18
ATOM  50075  CB  GLU R  83     192.289 125.971 -71.514  1.00190.37      RS18
ATOM  50076  CG  GLU R  83     191.147 126.137 -72.504  1.00190.37      RS18
ATOM  50077  CD  GLU R  83     191.540 125.777 -73.928  1.00190.37      RS18
ATOM  50078  OE1 GLU R  83     191.895 124.604 -74.176  1.00190.37      RS18
ATOM  50079  OE2 GLU R  83     191.493 126.670 -74.802  1.00190.37      RS18
ATOM  50080  C   GLU R  83     194.062 124.531 -70.516  1.00 75.19      RS18
ATOM  50081  O   GLU R  83     194.070 124.116 -69.361  1.00 75.19      RS18
ATOM  50082  N   LYS R  84     195.149 125.005 -71.116  1.00105.52      RS18
ATOM  50083  CA  LYS R  84     196.442 125.055 -70.441  1.00105.52      RS18
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ATOM  50084  CB  LYS R  84     197.550 124.708 -71.435  1.00117.96      RS18
ATOM  50085  CG  LYS R  84     197.290 123.420 -72.207  1.00117.96      RS18
ATOM  50086  CD  LYS R  84     198.384 123.122 -73.229  1.00117.96      RS18
ATOM  50087  CE  LYS R  84     199.712 122.771 -72.567  1.00117.96      RS18
ATOM  50088  NZ  LYS R  84     200.769 122.425 -73.564  1.00117.96      RS18
ATOM  50089  C   LYS R  84     196.680 126.442 -69.849  1.00105.52      RS18
ATOM  50090  O   LYS R  84     196.548 127.452 -70.543  1.00105.52      RS18
ATOM  50091  N   LEU R  85     197.028 126.488 -68.565  1.00 95.18      RS18
ATOM  50092  CA  LEU R  85     197.274 127.753 -67.878  1.00 95.18      RS18
ATOM  50093  CB  LEU R  85     197.203 127.548 -66.357  1.00 61.73      RS18
ATOM  50094  CG  LEU R  85     197.384 128.779 -65.455  1.00 61.73      RS18
ATOM  50095  CD1 LEU R  85     196.330 128.787 -64.362  1.00 61.73      RS18
ATOM  50096  CD2 LEU R  85     198.786 128.789 -64.853  1.00 61.73      RS18
ATOM  50097  C   LEU R  85     198.620 128.360 -68.261  1.00 95.18      RS18
ATOM  50098  O   LEU R  85     199.666 127.732 -68.094  1.00 95.18      RS18
ATOM  50099  N   VAL R  86     198.584 129.586 -68.776  1.00 78.44      RS18
ATOM  50100  CA  VAL R  86     199.794 130.290 -69.184  1.00 78.44      RS18
ATOM  50101  CB  VAL R  86     199.526 131.150 -70.426  1.00 98.98      RS18
ATOM  50102  CG1 VAL R  86     200.827 131.734 -70.950  1.00 98.98      RS18
ATOM  50103  CG2 VAL R  86     198.855 130.308 -71.493  1.00 98.98      RS18
ATOM  50104  C   VAL R  86     200.288 131.183 -68.048  1.00 78.44      RS18
ATOM  50105  O   VAL R  86     199.632 131.286 -67.013  1.00 78.44      RS18
ATOM  50106  N   ARG R  87     201.438 131.825 -68.245  1.00 81.90      RS18
ATOM  50107  CA  ARG R  87     202.037 132.696 -67.235  1.00 81.90      RS18
ATOM  50108  CB  ARG R  87     200.974 133.583 -66.581  1.00163.64      RS18
ATOM  50109  CG  ARG R  87     200.301 134.552 -67.529  1.00163.64      RS18
ATOM  50110  CD  ARG R  87     201.318 135.497 -68.141  1.00163.64      RS18
ATOM  50111  NE  ARG R  87     202.193 136.083 -67.129  1.00163.64      RS18
ATOM  50112  CZ  ARG R  87     201.771 136.783 -66.079  1.00163.64      RS18
ATOM  50113  NH1 ARG R  87     200.473 136.993 -65.889  1.00163.64      RS18
ATOM  50114  NH2 ARG R  87     202.651 137.274 -65.216  1.00163.64      RS18
ATOM  50115  C   ARG R  87     202.714 131.840 -66.171  1.00 81.90      RS18
ATOM  50116  O   ARG R  87     203.251 130.776 -66.479  1.00 81.90      RS18
ATOM  50117  N   LYS R  88     202.682 132.308 -64.924  1.00200.96      RS18
ATOM  50118  CA  LYS R  88     203.283 131.594 -63.796  1.00200.96      RS18
ATOM  50119  CB  LYS R  88     203.024 130.088 -63.925  1.00103.77      RS18
ATOM  50120  CG  LYS R  88     203.498 129.260 -62.753  1.00103.77      RS18
ATOM  50121  CD  LYS R  88     203.074 127.831 -62.933  1.00103.77      RS18
ATOM  50122  CE  LYS R  88     203.446 126.995 -61.736  1.00103.77      RS18
ATOM  50123  NZ  LYS R  88     202.969 125.597 -61.924  1.00103.77      RS18
ATOM  50124  C   LYS R  88     204.783 131.864 -63.687  1.00200.96      RS18
ATOM  50125  O   LYS R  88     205.274 132.729 -64.445  1.00200.96      RS18
ATOM  50126  OXT LYS R  88     205.448 131.222 -62.841  1.00103.77      RS18
TER   50126       LYS R  88                                             RS18
ATOM  50127  CB  PRO S   2     253.195 113.441  14.050  1.00185.13      SS19
ATOM  50128  CG  PRO S   2     252.968 111.997  13.617  1.00185.13      SS19
ATOM  50129  C   PRO S   2     252.782 113.278  16.519  1.00 98.67      SS19
ATOM  50130  O   PRO S   2     251.711 113.864  16.350  1.00 98.67      SS19
ATOM  50131  N   PRO S   2     254.528 111.933  15.378  1.00 98.67      SS19
ATOM  50132  CD  PRO S   2     254.217 111.242  14.112  1.00185.13      SS19
ATOM  50133  CA  PRO S   2     253.835 113.242  15.417  1.00 98.67      SS19
ATOM  50134  N   ARG S   3     253.094 112.640  17.643  1.00200.96      SS19
ATOM  50135  CA  ARG S   3     252.187 112.589  18.786  1.00200.96      SS19
ATOM  50136  CB  ARG S   3     252.262 111.207  19.448  1.00200.96      SS19
ATOM  50137  CG  ARG S   3     251.887 110.061  18.510  1.00200.96      SS19
ATOM  50138  CD  ARG S   3     252.013 108.696  19.177  1.00200.96      SS19
ATOM  50139  NE  ARG S   3     251.693 107.612  18.249  1.00200.96      SS19
ATOM  50140  CZ  ARG S   3     251.789 106.318  18.543  1.00200.96      SS19
ATOM  50141  NH1 ARG S   3     252.198 105.937  19.746  1.00200.96      SS19
ATOM  50142  NH2 ARG S   3     251.480 105.405  17.631  1.00200.96      SS19
ATOM  50143  C   ARG S   3     252.561 113.685  19.783  1.00200.96      SS19
ATOM  50144  O   ARG S   3     253.652 114.249  19.702  1.00200.96      SS19
ATOM  50145  N   SER S   4     251.663 113.985  20.721  1.00 80.90      SS19
ATOM  50146  CA  SER S   4     251.922 115.034  21.700  1.00 80.90      SS19
ATOM  50147  CB  SER S   4     251.462 116.376  21.144  1.00 88.00      SS19
ATOM  50148  OG  SER S   4     251.355 117.328  22.185  1.00 88.00      SS19
ATOM  50149  C   SER S   4     251.323 114.863  23.093  1.00 80.90      SS19
ATOM  50150  O   SER S   4     250.318 114.188  23.286  1.00 80.90      SS19
ATOM  50151  N   LEU S   5     251.963 115.515  24.055  1.00109.06      SS19
ATOM  50152  CA  LEU S   5     251.562 115.505  25.454  1.00109.06      SS19
ATOM  50153  CB  LEU S   5     252.201 114.317  26.178  1.00143.06      SS19
ATOM  50154  CG  LEU S   5     251.784 112.941  25.641  1.00143.06      SS19
ATOM  50155  CD1 LEU S   5     252.589 111.842  26.310  1.00143.06      SS19
ATOM  50156  CD2 LEU S   5     250.299 112.735  25.884  1.00143.06      SS19
ATOM  50157  C   LEU S   5     252.062 116.832  26.024  1.00109.06      SS19
ATOM  50158  O   LEU S   5     251.251 117.712  26.311  1.00109.06      SS19
ATOM  50159  N   LYS S   6     253.389 116.963  26.162  1.00 88.15      SS19
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ATOM  50160  CA  LYS S   6     254.067 118.182  26.650  1.00 88.15      SS19
ATOM  50161  CB  LYS S   6     253.086 119.124  27.354  1.00 68.63      SS19
ATOM  50162  CG  LYS S   6     252.586 120.269  26.505  1.00 68.63      SS19
ATOM  50163  CD  LYS S   6     251.411 120.948  27.182  1.00 68.63      SS19
ATOM  50164  CE  LYS S   6     250.767 122.002  26.291  1.00 68.63      SS19
ATOM  50165  NZ  LYS S   6     249.515 122.572  26.880  1.00 68.63      SS19
ATOM  50166  C   LYS S   6     255.265 117.998  27.582  1.00 88.15      SS19
ATOM  50167  O   LYS S   6     256.376 117.645  27.169  1.00 88.15      SS19
ATOM  50168  N   LYS S   7     255.007 118.286  28.851  1.00153.30      SS19
ATOM  50169  CA  LYS S   7     255.992 118.209  29.912  1.00153.30      SS19
ATOM  50170  CB  LYS S   7     256.635 119.582  30.094  1.00 62.56      SS19
ATOM  50171  CG  LYS S   7     255.639 120.724  30.044  1.00 62.56      SS19
ATOM  50172  CD  LYS S   7     256.330 122.029  29.699  1.00 62.56      SS19
ATOM  50173  CE  LYS S   7     255.400 123.036  29.012  1.00 62.56      SS19
ATOM  50174  NZ  LYS S   7     254.236 123.459  29.848  1.00 62.56      SS19
ATOM  50175  C   LYS S   7     255.265 117.780  31.182  1.00153.30      SS19
ATOM  50176  O   LYS S   7     254.904 118.606  32.022  1.00153.30      SS19
ATOM  50177  N   GLY S   8     255.042 116.475  31.295  1.00146.09      SS19
ATOM  50178  CA  GLY S   8     254.356 115.917  32.443  1.00146.09      SS19
ATOM  50179  C   GLY S   8     253.539 114.713  32.021  1.00146.09      SS19
ATOM  50180  O   GLY S   8     252.312 114.781  31.981  1.00146.09      SS19
ATOM  50181  N   VAL S   9     254.222 113.617  31.694  1.00108.19      SS19
ATOM  50182  CA  VAL S   9     253.568 112.377  31.265  1.00108.19      SS19
ATOM  50183  CB  VAL S   9     254.494 111.151  31.455  1.00106.75      SS19
ATOM  50184  CG1 VAL S   9     253.828 109.898  30.895  1.00106.75      SS19
ATOM  50185  CG2 VAL S   9     255.834 111.400  30.779  1.00106.75      SS19
ATOM  50186  C   VAL S   9     252.293 112.125  32.059  1.00108.19      SS19
ATOM  50187  O   VAL S   9     252.174 112.563  33.203  1.00108.19      SS19
ATOM  50188  N   PHE S  10     251.337 111.420  31.463  1.00108.35      SS19
ATOM  50189  CA  PHE S  10     250.097 111.149  32.171  1.00108.35      SS19
ATOM  50190  CB  PHE S  10     248.895 111.689  31.400  1.00 92.72      SS19
ATOM  50191  CG  PHE S  10     247.597 111.523  32.137  1.00 92.72      SS19
ATOM  50192  CD1 PHE S  10     247.078 112.559  32.899  1.00 92.72      SS19
ATOM  50193  CD2 PHE S  10     246.927 110.302  32.128  1.00 92.72      SS19
ATOM  50194  CE1 PHE S  10     245.913 112.378  33.644  1.00 92.72      SS19
ATOM  50195  CE2 PHE S  10     245.767 110.115  32.869  1.00 92.72      SS19
ATOM  50196  CZ  PHE S  10     245.260 111.153  33.628  1.00 92.72      SS19
ATOM  50197  C   PHE S  10     249.847 109.678  32.477  1.00108.35      SS19
ATOM  50198  O   PHE S  10     250.021 108.813  31.622  1.00108.35      SS19
ATOM  50199  N   VAL S  11     249.422 109.414  33.709  1.00 85.32      SS19
ATOM  50200  CA  VAL S  11     249.106 108.066  34.164  1.00 85.32      SS19
ATOM  50201  CB  VAL S  11     250.331 107.349  34.726  1.00 44.36      SS19
ATOM  50202  CG1 VAL S  11     249.959 105.917  35.106  1.00 44.36      SS19
ATOM  50203  CG2 VAL S  11     251.452 107.362  33.707  1.00 44.36      SS19
ATOM  50204  C   VAL S  11     248.065 108.142  35.270  1.00 85.32      SS19
ATOM  50205  O   VAL S  11     248.298 108.752  36.313  1.00 85.32      SS19
ATOM  50206  N   ASP S  12     246.913 107.526  35.034  1.00 98.41      SS19
ATOM  50207  CA  ASP S  12     245.845 107.530  36.020  1.00 98.41      SS19
ATOM  50208  CB  ASP S  12     244.613 106.793  35.480  1.00104.68      SS19
ATOM  50209  CG  ASP S  12     243.456 107.735  35.172  1.00104.68      SS19
ATOM  50210  OD1 ASP S  12     243.674 108.746  34.475  1.00104.68      SS19
ATOM  50211  OD2 ASP S  12     242.325 107.467  35.622  1.00104.68      SS19
ATOM  50212  C   ASP S  12     246.334 106.883  37.306  1.00 98.41      SS19
ATOM  50213  O   ASP S  12     246.935 105.808  37.292  1.00 98.41      SS19
ATOM  50214  N   ASP S  13     246.068 107.558  38.417  1.00116.85      SS19
ATOM  50215  CA  ASP S  13     246.478 107.099  39.734  1.00116.85      SS19
ATOM  50216  CB  ASP S  13     245.752 107.921  40.803  1.00138.34      SS19
ATOM  50217  CG  ASP S  13     246.016 109.414  40.667  1.00138.34      SS19
ATOM  50218  OD1 ASP S  13     245.514 110.190  41.507  1.00138.34      SS19
ATOM  50219  OD2 ASP S  13     246.726 109.811  39.719  1.00138.34      SS19
ATOM  50220  C   ASP S  13     246.285 105.605  39.997  1.00116.85      SS19
ATOM  50221  O   ASP S  13     247.265 104.882  40.173  1.00116.85      SS19
ATOM  50222  N   HIS S  14     245.035 105.143  40.009  1.00113.17      SS19
ATOM  50223  CA  HIS S  14     244.736 103.735  40.285  1.00113.17      SS19
ATOM  50224  CB  HIS S  14     243.515 103.236  39.496  1.00 90.76      SS19
ATOM  50225  CG  HIS S  14     242.804 104.300  38.724  1.00 90.76      SS19
ATOM  50226  CD2 HIS S  14     242.360 104.323  37.446  1.00 90.76      SS19
ATOM  50227  ND1 HIS S  14     242.430 105.502  39.283  1.00 90.76      SS19
ATOM  50228  CE1 HIS S  14     241.784 106.220  38.381  1.00 90.76      SS19
ATOM  50229  NE2 HIS S  14     241.728 105.527  37.258  1.00 90.76      SS19
ATOM  50230  C   HIS S  14     245.890 102.784  40.016  1.00113.17      SS19
ATOM  50231  O   HIS S  14     246.720 102.546  40.890  1.00113.17      SS19
ATOM  50232  N   LEU S  15     245.943 102.242  38.805  1.00131.11      SS19
ATOM  50233  CA  LEU S  15     246.993 101.299  38.459  1.00131.11      SS19
ATOM  50234  CB  LEU S  15     246.950 100.940  36.963  1.00100.08      SS19
ATOM  50235  CG  LEU S  15     246.737 101.978  35.854  1.00100.08      SS19
ATOM  50236  CD1 LEU S  15     247.647 103.181  36.022  1.00100.08      SS19
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ATOM  50237  CD2 LEU S  15     246.995 101.296  34.522  1.00100.08      SS19
ATOM  50238  C   LEU S  15     248.381 101.776  38.842  1.00131.11      SS19
ATOM  50239  O   LEU S  15     249.223 100.971  39.220  1.00131.11      SS19
ATOM  50240  N   LEU S  16     248.626 103.078  38.761  1.00136.82      SS19
ATOM  50241  CA  LEU S  16     249.944 103.580  39.114  1.00136.82      SS19
ATOM  50242  CB  LEU S  16     250.010 105.100  38.979  1.00 79.08      SS19
ATOM  50243  CG  LEU S  16     251.391 105.684  39.299  1.00 79.08      SS19
ATOM  50244  CD1 LEU S  16     252.453 105.023  38.424  1.00 79.08      SS19
ATOM  50245  CD2 LEU S  16     251.371 107.190  39.088  1.00 79.08      SS19
ATOM  50246  C   LEU S  16     250.278 103.179  40.542  1.00136.82      SS19
ATOM  50247  O   LEU S  16     251.045 102.243  40.768  1.00136.82      SS19
ATOM  50248  N   GLU S  17     249.692 103.881  41.507  1.00138.16      SS19
ATOM  50249  CA  GLU S  17     249.945 103.584  42.909  1.00138.16      SS19
ATOM  50250  CB  GLU S  17     249.256 104.618  43.809  1.00200.96      SS19
ATOM  50251  CG  GLU S  17     247.764 104.789  43.575  1.00200.96      SS19
ATOM  50252  CD  GLU S  17     247.174 105.933  44.388  1.00200.96      SS19
ATOM  50253  OE1 GLU S  17     245.939 106.128  44.340  1.00200.96      SS19
ATOM  50254  OE2 GLU S  17     247.944 106.640  45.074  1.00200.96      SS19
ATOM  50255  C   GLU S  17     249.489 102.172  43.261  1.00138.16      SS19
ATOM  50256  O   GLU S  17     249.599 101.741  44.407  1.00138.16      SS19
ATOM  50257  N   LYS S  18     248.984 101.453  42.262  1.00 58.70      SS19
ATOM  50258  CA  LYS S  18     248.531 100.080  42.452  1.00 58.70      SS19
ATOM  50259  CB  LYS S  18     247.150  99.863  41.827  1.00126.76      SS19
ATOM  50260  CG  LYS S  18     246.595  98.453  42.039  1.00126.76      SS19
ATOM  50261  CD  LYS S  18     245.379  98.175  41.164  1.00126.76      SS19
ATOM  50262  CE  LYS S  18     244.263  99.179  41.406  1.00126.76      SS19
ATOM  50263  NZ  LYS S  18     243.087  98.914  40.532  1.00126.76      SS19
ATOM  50264  C   LYS S  18     249.524  99.125  41.800  1.00 58.70      SS19
ATOM  50265  O   LYS S  18     249.632  97.964  42.194  1.00 58.70      SS19
ATOM  50266  N   VAL S  19     250.234  99.610  40.788  1.00 82.35      SS19
ATOM  50267  CA  VAL S  19     251.217  98.782  40.115  1.00 82.35      SS19
ATOM  50268  CB  VAL S  19     251.502  99.257  38.667  1.00115.79      SS19
ATOM  50269  CG1 VAL S  19     251.973 100.704  38.653  1.00115.79      SS19
ATOM  50270  CG2 VAL S  19     252.560  98.365  38.039  1.00115.79      SS19
ATOM  50271  C   VAL S  19     252.497  98.856  40.923  1.00 82.35      SS19
ATOM  50272  O   VAL S  19     253.043  97.830  41.324  1.00 82.35      SS19
ATOM  50273  N   LEU S  20     252.962 100.074  41.179  1.00 98.32      SS19
ATOM  50274  CA  LEU S  20     254.181 100.267  41.944  1.00 98.32      SS19
ATOM  50275  CB  LEU S  20     254.343 101.742  42.315  1.00 94.21      SS19
ATOM  50276  CG  LEU S  20     253.193 102.435  43.044  1.00 94.21      SS19
ATOM  50277  CD1 LEU S  20     253.142 101.988  44.497  1.00 94.21      SS19
ATOM  50278  CD2 LEU S  20     253.392 103.942  42.968  1.00 94.21      SS19
ATOM  50279  C   LEU S  20     254.159  99.394  43.192  1.00 98.32      SS19
ATOM  50280  O   LEU S  20     255.192  98.863  43.603  1.00 98.32      SS19
ATOM  50281  N   GLU S  21     252.982  99.236  43.790  1.00101.34      SS19
ATOM  50282  CA  GLU S  21     252.862  98.401  44.976  1.00101.34      SS19
ATOM  50283  CB  GLU S  21     251.416  98.339  45.468  1.00168.56      SS19
ATOM  50284  CG  GLU S  21     250.877  99.616  46.068  1.00168.56      SS19
ATOM  50285  CD  GLU S  21     249.559  99.384  46.780  1.00168.56      SS19
ATOM  50286  OE1 GLU S  21     249.559  98.687  47.818  1.00168.56      SS19
ATOM  50287  OE2 GLU S  21     248.522  99.887  46.299  1.00168.56      SS19
ATOM  50288  C   GLU S  21     253.304  96.995  44.608  1.00101.34      SS19
ATOM  50289  O   GLU S  21     254.245  96.454  45.180  1.00101.34      SS19
ATOM  50290  N   LEU S  22     252.606  96.415  43.640  1.00 96.75      SS19
ATOM  50291  CA  LEU S  22     252.885  95.068  43.167  1.00 96.75      SS19
ATOM  50292  CB  LEU S  22     252.313  94.897  41.762  1.00147.63      SS19
ATOM  50293  CG  LEU S  22     250.914  95.498  41.602  1.00147.63      SS19
ATOM  50294  CD1 LEU S  22     250.458  95.365  40.164  1.00147.63      SS19
ATOM  50295  CD2 LEU S  22     249.943  94.811  42.550  1.00147.63      SS19
ATOM  50296  C   LEU S  22     254.379  94.787  43.159  1.00 96.75      SS19
ATOM  50297  O   LEU S  22     254.809  93.674  43.456  1.00 96.75      SS19
ATOM  50298  N   ASN S  23     255.167  95.804  42.822  1.00150.84      SS19
ATOM  50299  CA  ASN S  23     256.617  95.663  42.788  1.00150.84      SS19
ATOM  50300  CB  ASN S  23     257.261  96.909  42.179  1.00 96.39      SS19
ATOM  50301  CG  ASN S  23     256.837  97.141  40.748  1.00 96.39      SS19
ATOM  50302  OD1 ASN S  23     256.821  96.213  39.936  1.00 96.39      SS19
ATOM  50303  ND2 ASN S  23     256.500  98.385  40.424  1.00 96.39      SS19
ATOM  50304  C   ASN S  23     257.163  95.440  44.192  1.00150.84      SS19
ATOM  50305  O   ASN S  23     258.032  94.595  44.402  1.00150.84      SS19
ATOM  50306  N   ALA S  24     256.653  96.212  45.147  1.00114.40      SS19
ATOM  50307  CA  ALA S  24     257.076  96.096  46.537  1.00114.40      SS19
ATOM  50308  CB  ALA S  24     256.230  97.002  47.412  1.00 78.58      SS19
ATOM  50309  C   ALA S  24     256.960  94.647  47.009  1.00114.40      SS19
ATOM  50310  O   ALA S  24     257.872  94.123  47.649  1.00114.40      SS19
ATOM  50311  N   LYS S  25     255.837  94.004  46.695  1.00115.26      SS19
ATOM  50312  CA  LYS S  25     255.624  92.609  47.074  1.00115.26      SS19
ATOM  50313  CB  LYS S  25     254.130  92.258  47.082  1.00107.38      SS19
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ATOM  50314  CG  LYS S  25     253.210   93.245   47.791  1.00107.38      SS19
ATOM  50315  CD  LYS S  25     251.795   92.667   47.870  1.00107.38      SS19
ATOM  50316  CE  LYS S  25     250.738   93.718   48.208  1.00107.38      SS19
ATOM  50317  NZ  LYS S  25     250.452   94.647   47.071  1.00107.38      SS19
ATOM  50318  C   LYS S  25     256.323   91.744   46.030  1.00115.26      SS19
ATOM  50319  O   LYS S  25     256.046   90.551   45.903  1.00115.26      SS19
ATOM  50320  N   GLY S  26     257.229   92.361   45.281  1.00165.04      SS19
ATOM  50321  CA  GLY S  26     257.942   91.647   44.241  1.00165.04      SS19
ATOM  50322  C   GLY S  26     257.242   91.867   42.915  1.00165.04      SS19
ATOM  50323  O   GLY S  26     257.618   92.751   42.143  1.00165.04      SS19
ATOM  50324  N   GLU S  27     256.213   91.061   42.661  1.00200.96      SS19
ATOM  50325  CA  GLU S  27     255.420   91.141   41.434  1.00200.96      SS19
ATOM  50326  CB  GLU S  27     256.119   90.396   40.289  1.00182.89      SS19
ATOM  50327  CG  GLU S  27     257.228   91.176   39.593  1.00182.89      SS19
ATOM  50328  CD  GLU S  27     256.693   92.266   38.686  1.00182.89      SS19
ATOM  50329  OE1 GLU S  27     255.949   91.933   37.740  1.00182.89      SS19
ATOM  50330  OE2 GLU S  27     257.014   93.452   38.917  1.00182.89      SS19
ATOM  50331  C   GLU S  27     254.047   90.521   41.673  1.00200.96      SS19
ATOM  50332  O   GLU S  27     253.868   89.735   42.607  1.00200.96      SS19
ATOM  50333  N   LYS S  28     253.078   90.876   40.833  1.00140.35      SS19
ATOM  50334  CA  LYS S  28     251.733   90.331   40.968  1.00140.35      SS19
ATOM  50335  CB  LYS S  28     250.710   91.447   41.227  1.00200.96      SS19
ATOM  50336  CG  LYS S  28     249.335   90.927   41.667  1.00200.96      SS19
ATOM  50337  CD  LYS S  28     248.311   92.039   41.839  1.00200.96      SS19
ATOM  50338  CE  LYS S  28     246.957   91.477   42.253  1.00200.96      SS19
ATOM  50339  NZ  LYS S  28     245.930   92.544   42.410  1.00200.96      SS19
ATOM  50340  C   LYS S  28     251.337   89.549   39.720  1.00140.35      SS19
ATOM  50341  O   LYS S  28     252.192   89.181   38.913  1.00140.35      SS19
ATOM  50342  N   ARG S  29     250.038   89.303   39.569  1.00167.67      SS19
ATOM  50343  CA  ARG S  29     249.521   88.552   38.435  1.00167.67      SS19
ATOM  50344  CB  ARG S  29     249.420   87.070   38.808  1.00200.96      SS19
ATOM  50345  CG  ARG S  29     250.743   86.458   39.258  1.00200.96      SS19
ATOM  50346  CD  ARG S  29     250.582   85.016   39.716  1.00200.96      SS19
ATOM  50347  NE  ARG S  29     251.857   84.431   40.123  1.00200.96      SS19
ATOM  50348  CZ  ARG S  29     252.003   83.190   40.576  1.00200.96      SS19
ATOM  50349  NH1 ARG S  29     250.950   82.391   40.685  1.00200.96      SS19
ATOM  50350  NH2 ARG S  29     253.205   82.746   40.920  1.00200.96      SS19
ATOM  50351  C   ARG S  29     248.165   89.054   37.939  1.00167.67      SS19
ATOM  50352  O   ARG S  29     247.130   88.820   38.564  1.00167.67      SS19
ATOM  50353  N   LEU S  30     248.194   89.752   36.809  1.00 93.59      SS19
ATOM  50354  CA  LEU S  30     247.003   90.289   36.158  1.00 93.59      SS19
ATOM  50355  CB  LEU S  30     245.996   89.168   35.902  1.00107.26      SS19
ATOM  50356  CG  LEU S  30     245.146   89.347   34.641  1.00107.26      SS19
ATOM  50357  CD1 LEU S  30     244.313   88.098   34.420  1.00107.26      SS19
ATOM  50358  CD2 LEU S  30     244.260   90.579   34.764  1.00107.26      SS19
ATOM  50359  C   LEU S  30     246.315   91.444   36.883  1.00 93.59      SS19
ATOM  50360  O   LEU S  30     245.926   91.334   38.044  1.00 93.59      SS19
ATOM  50361  N   ILE S  31     246.153   92.546   36.156  1.00146.83      SS19
ATOM  50362  CA  ILE S  31     245.533   93.759   36.676  1.00146.83      SS19
ATOM  50363  CB  ILE S  31     246.596   94.854   36.900  1.00 97.76      SS19
ATOM  50364  CG2 ILE S  31     246.010   95.992   37.705  1.00 97.76      SS19
ATOM  50365  CG1 ILE S  31     247.822   94.262   37.597  1.00 97.76      SS19
ATOM  50366  CD1 ILE S  31     247.525   93.598   38.914  1.00 97.76      SS19
ATOM  50367  C   ILE S  31     244.520   94.298   35.665  1.00146.83      SS19
ATOM  50368  O   ILE S  31     244.906   94.738   34.582  1.00146.83      SS19
ATOM  50369  N   LYS S  32     243.235   94.274   36.007  1.00 92.39      SS19
ATOM  50370  CA  LYS S  32     242.218   94.780   35.088  1.00 92.39      SS19
ATOM  50371  CB  LYS S  32     241.001   93.852   35.051  1.00150.18      SS19
ATOM  50372  CG  LYS S  32     240.330   93.602   36.384  1.00150.18      SS19
ATOM  50373  CD  LYS S  32     238.925   93.051   36.173  1.00150.18      SS19
ATOM  50374  CE  LYS S  32     238.924   91.821   35.272  1.00150.18      SS19
ATOM  50375  NZ  LYS S  32     237.542   91.393   34.906  1.00150.18      SS19
ATOM  50376  C   LYS S  32     241.769   96.205   35.400  1.00 92.39      SS19
ATOM  50377  O   LYS S  32     241.199   96.478   36.457  1.00 92.39      SS19
ATOM  50378  N   THR S  33     242.029   97.106   34.455  1.00 93.47      SS19
ATOM  50379  CA  THR S  33     241.676   98.511   34.601  1.00 93.47      SS19
ATOM  50380  CB  THR S  33     242.934   99.401   34.603  1.00141.91      SS19
ATOM  50381  OG1 THR S  33     243.795   99.005   35.676  1.00141.91      SS19
ATOM  50382  CG2 THR S  33     242.557  100.865   34.781  1.00141.91      SS19
ATOM  50383  C   THR S  33     240.771   98.978   33.475  1.00 93.47      SS19
ATOM  50384  O   THR S  33     240.792   98.424   32.377  1.00 93.47      SS19
ATOM  50385  N   TRP S  34     239.978  100.004   33.769  1.00102.32      SS19
ATOM  50386  CA  TRP S  34     239.053  100.600   32.813  1.00102.32      SS19
ATOM  50387  CB  TRP S  34     237.719  100.909   33.490  1.00137.85      SS19
ATOM  50388  CG  TRP S  34     236.866   99.716   33.678  1.00137.85      SS19
ATOM  50389  CD2 TRP S  34     236.762   98.911   34.855  1.00137.85      SS19
ATOM  50390  CE2 TRP S  34     235.855   97.871   34.570  1.00137.85      SS19
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ATOM  50391  CE3 TRP S  34     237.348  98.966  36.125  1.00137.85      SS19
ATOM  50392  CD1 TRP S  34     236.047  99.151  32.755  1.00137.85      SS19
ATOM  50393  NE1 TRP S  34     235.433  98.042  33.278  1.00137.85      SS19
ATOM  50394  CZ2 TRP S  34     235.516  96.891  35.507  1.00137.85      SS19
ATOM  50395  CZ3 TRP S  34     237.011  97.991  37.059  1.00137.85      SS19
ATOM  50396  CH2 TRP S  34     236.102  96.968  36.743  1.00137.85      SS19
ATOM  50397  C   TRP S  34     239.650 101.891  32.284  1.00102.32      SS19
ATOM  50398  O   TRP S  34     239.047 102.574  31.459  1.00102.32      SS19
ATOM  50399  N   SER S  35     240.834 102.232  32.775  1.00108.09      SS19
ATOM  50400  CA  SER S  35     241.496 103.446  32.340  1.00108.09      SS19
ATOM  50401  CB  SER S  35     242.077 104.199  33.536  1.00177.31      SS19
ATOM  50402  OG  SER S  35     242.667 105.419  33.121  1.00177.31      SS19
ATOM  50403  C   SER S  35     242.602 103.123  31.351  1.00108.09      SS19
ATOM  50404  O   SER S  35     243.686 102.682  31.729  1.00108.09      SS19
ATOM  50405  N   ARG S  36     242.310 103.332  30.074  1.00 64.66      SS19
ATOM  50406  CA  ARG S  36     243.280 103.082  29.026  1.00 64.66      SS19
ATOM  50407  CB  ARG S  36     242.591 102.460  27.798  1.00 61.27      SS19
ATOM  50408  CG  ARG S  36     241.500 103.313  27.137  1.00 61.27      SS19
ATOM  50409  CD  ARG S  36     240.174 102.552  26.975  1.00 61.27      SS19
ATOM  50410  NE  ARG S  36     240.328 101.220  26.385  1.00 61.27      SS19
ATOM  50411  CZ  ARG S  36     240.523 100.972  25.090  1.00 61.27      SS19
ATOM  50412  NH1 ARG S  36     240.591 101.966  24.211  1.00 61.27      SS19
ATOM  50413  NH2 ARG S  36     240.648  99.718  24.672  1.00 61.27      SS19
ATOM  50414  C   ARG S  36     243.880 104.436  28.703  1.00 64.66      SS19
ATOM  50415  O   ARG S  36     244.771 104.559  27.871  1.00 64.66      SS19
ATOM  50416  N   ARG S  37     243.374 105.451  29.392  1.00121.11      SS19
ATOM  50417  CA  ARG S  37     243.830 106.820  29.222  1.00121.11      SS19
ATOM  50418  CB  ARG S  37     242.936 107.761  30.032  1.00177.24      SS19
ATOM  50419  CG  ARG S  37     241.461 107.622  29.721  1.00177.24      SS19
ATOM  50420  CD  ARG S  37     241.171 108.088  28.309  1.00177.24      SS19
ATOM  50421  NE  ARG S  37     239.796 107.821  27.901  1.00177.24      SS19
ATOM  50422  CZ  ARG S  37     239.262 108.251  26.761  1.00177.24      SS19
ATOM  50423  NH1 ARG S  37     239.991 108.971  25.919  1.00177.24      SS19
ATOM  50424  NH2 ARG S  37     238.004 107.957  26.458  1.00177.24      SS19
ATOM  50425  C   ARG S  37     245.267 106.947  29.713  1.00121.11      SS19
ATOM  50426  O   ARG S  37     245.993 107.853  29.306  1.00121.11      SS19
ATOM  50427  N   SER S  38     245.666 106.024  30.584  1.00 71.96      SS19
ATOM  50428  CA  SER S  38     247.001 106.019  31.176  1.00 71.96      SS19
ATOM  50429  CB  SER S  38     246.991 105.149  32.431  1.00122.28      SS19
ATOM  50430  OG  SER S  38     246.554 103.837  32.120  1.00122.28      SS19
ATOM  50431  C   SER S  38     248.133 105.552  30.262  1.00 71.96      SS19
ATOM  50432  O   SER S  38     247.972 104.621  29.471  1.00 71.96      SS19
ATOM  50433  N   THR S  39     249.285 106.200  30.396  1.00 72.39      SS19
ATOM  50434  CA  THR S  39     250.466 105.865  29.606  1.00 72.39      SS19
ATOM  50435  CB  THR S  39     251.534 106.995  29.666  1.00 56.39      SS19
ATOM  50436  OG1 THR S  39     251.059 108.169  28.988  1.00 56.39      SS19
ATOM  50437  CG2 THR S  39     252.838 106.531  29.036  1.00 56.39      SS19
ATOM  50438  C   THR S  39     251.107 104.598  30.165  1.00 72.39      SS19
ATOM  50439  O   THR S  39     251.035 104.341  31.366  1.00 72.39      SS19
ATOM  50440  N   ILE S  40     251.722 103.803  29.295  1.00 71.80      SS19
ATOM  50441  CA  ILE S  40     252.403 102.593  29.736  1.00 71.80      SS19
ATOM  50442  CB  ILE S  40     252.529 101.555  28.607  1.00135.25      SS19
ATOM  50443  CG2 ILE S  40     253.308 100.349  29.102  1.00135.25      SS19
ATOM  50444  CG1 ILE S  40     251.138 101.125  28.137  1.00135.25      SS19
ATOM  50445  CD1 ILE S  40     251.153 100.055  27.062  1.00135.25      SS19
ATOM  50446  C   ILE S  40     253.795 103.040  30.157  1.00 71.80      SS19
ATOM  50447  O   ILE S  40     254.526 103.652  29.375  1.00 71.80      SS19
ATOM  50448  N   VAL S  41     254.155 102.745  31.400  1.00153.75      SS19
ATOM  50449  CA  VAL S  41     255.451 103.143  31.926  1.00153.75      SS19
ATOM  50450  CB  VAL S  41     255.267 104.125  33.103  1.00106.72      SS19
ATOM  50451  CG1 VAL S  41     254.647 105.424  32.602  1.00106.72      SS19
ATOM  50452  CG2 VAL S  41     254.381 103.500  34.162  1.00106.72      SS19
ATOM  50453  C   VAL S  41     256.315 101.957  32.362  1.00153.75      SS19
ATOM  50454  O   VAL S  41     255.817 100.848  32.571  1.00153.75      SS19
ATOM  50455  N   PRO S  42     257.630 102.186  32.509  1.00112.43      SS19
ATOM  50456  CD  PRO S  42     258.256 103.519  32.429  1.00 83.54      SS19
ATOM  50457  CA  PRO S  42     258.621 101.181  32.910  1.00112.43      SS19
ATOM  50458  CB  PRO S  42     259.804 102.031  33.346  1.00 83.54      SS19
ATOM  50459  CG  PRO S  42     259.724 103.183  32.407  1.00 83.54      SS19
ATOM  50460  C   PRO S  42     258.183 100.210  33.997  1.00112.43      SS19
ATOM  50461  O   PRO S  42     258.235  98.997  33.807  1.00112.43      SS19
ATOM  50462  N   GLU S  43     257.760 100.746  35.135  1.00118.82      SS19
ATOM  50463  CA  GLU S  43     257.327  99.917  36.251  1.00118.82      SS19
ATOM  50464  CB  GLU S  43     256.912 100.796  37.433  1.00138.46      SS19
ATOM  50465  CG  GLU S  43     256.420 102.171  37.034  1.00138.46      SS19
ATOM  50466  CD  GLU S  43     257.555 103.158  36.849  1.00138.46      SS19
ATOM  50467  OE1 GLU S  43     258.127 103.597  37.870  1.00138.46      SS19
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ATOM  50468  OE2 GLU S  43     257.880 103.488  35.688  1.00138.46      SS19
ATOM  50469  C   GLU S  43     256.191  98.959  35.908  1.00118.82      SS19
ATOM  50470  O   GLU S  43     255.668  98.274  36.790  1.00118.82      SS19
ATOM  50471  N   MET S  44     255.805  98.908  34.636  1.00 85.29      SS19
ATOM  50472  CA  MET S  44     254.733  98.014  34.213  1.00 85.29      SS19
ATOM  50473  CB  MET S  44     253.763  98.755  33.302  1.00 92.37      SS19
ATOM  50474  CG  MET S  44     252.949  99.789  34.039  1.00 92.37      SS19
ATOM  50475  SD  MET S  44     252.009 100.825  32.931  1.00 92.37      SS19
ATOM  50476  CE  MET S  44     251.382 102.097  34.061  1.00 92.37      SS19
ATOM  50477  C   MET S  44     255.288  96.790  33.507  1.00 85.29      SS19
ATOM  50478  O   MET S  44     254.734  95.694  33.609  1.00 85.29      SS19
ATOM  50479  N   VAL S  45     256.394  96.976  32.800  1.00 81.06      SS19
ATOM  50480  CA  VAL S  45     257.023  95.874  32.086  1.00 81.06      SS19
ATOM  50481  CB  VAL S  45     258.502  96.188  31.754  1.00 65.69      SS19
ATOM  50482  CG1 VAL S  45     259.028  95.188  30.742  1.00 65.69      SS19
ATOM  50483  CG2 VAL S  45     258.632  97.610  31.226  1.00 65.69      SS19
ATOM  50484  C   VAL S  45     256.969  94.621  32.952  1.00 81.06      SS19
ATOM  50485  O   VAL S  45     257.060  94.697  34.172  1.00 81.06      SS19
ATOM  50486  N   GLY S  46     256.809  93.469  32.318  1.00 85.12      SS19
ATOM  50487  CA  GLY S  46     256.750  92.232  33.064  1.00 85.12      SS19
ATOM  50488  C   GLY S  46     255.357  91.929  33.573  1.00 85.12      SS19
ATOM  50489  O   GLY S  46     254.991  90.761  33.710  1.00 85.12      SS19
ATOM  50490  N   HIS S  47     254.573  92.967  33.851  1.00 81.49      SS19
ATOM  50491  CA  HIS S  47     253.215  92.765  34.352  1.00 81.49      SS19
ATOM  50492  CB  HIS S  47     252.669  94.059  34.959  1.00126.29      SS19
ATOM  50493  CG  HIS S  47     253.339  94.454  36.236  1.00126.29      SS19
ATOM  50494  CD2 HIS S  47     254.021  95.573  36.576  1.00126.29      SS19
ATOM  50495  ND1 HIS S  47     253.348  93.645  37.352  1.00126.29      SS19
ATOM  50496  CE1 HIS S  47     254.007  94.249  38.325  1.00126.29      SS19
ATOM  50497  NE2 HIS S  47     254.425  95.421  37.880  1.00126.29      SS19
ATOM  50498  C   HIS S  47     252.249  92.270  33.279  1.00 81.49      SS19
ATOM  50499  O   HIS S  47     252.649  91.951  32.160  1.00 81.49      SS19
ATOM  50500  N   THR S  48     250.971  92.208  33.638  1.00101.58      SS19
ATOM  50501  CA  THR S  48     249.930  91.765  32.719  1.00101.58      SS19
ATOM  50502  CB  THR S  48     249.642  90.262  32.886  1.00141.80      SS19
ATOM  50503  OG1 THR S  48     250.868  89.527  32.791  1.00141.80      SS19
ATOM  50504  CG2 THR S  48     248.685  89.779  31.806  1.00141.80      SS19
ATOM  50505  C   THR S  48     248.668  92.551  33.048  1.00101.58      SS19
ATOM  50506  O   THR S  48     247.931  92.194  33.966  1.00101.58      SS19
ATOM  50507  N   ILE S  49     248.422  93.621  32.299  1.00112.28      SS19
ATOM  50508  CA  ILE S  49     247.256  94.465  32.537  1.00112.28      SS19
ATOM  50509  CB  ILE S  49     247.621  95.951  32.408  1.00 85.11      SS19
ATOM  50510  CG2 ILE S  49     246.446  96.818  32.841  1.00 85.11      SS19
ATOM  50511  CG1 ILE S  49     248.854  96.248  33.263  1.00 85.11      SS19
ATOM  50512  CD1 ILE S  49     249.408  97.648  33.087  1.00 85.11      SS19
ATOM  50513  C   ILE S  49     246.101  94.176  31.589  1.00112.28      SS19
ATOM  50514  O   ILE S  49     246.248  94.259  30.371  1.00112.28      SS19
ATOM  50515  N   ALA S  50     244.949  93.839  32.159  1.00 93.20      SS19
ATOM  50516  CA  ALA S  50     243.759  93.555  31.369  1.00 93.20      SS19
ATOM  50517  CB  ALA S  50     242.850  92.598  32.115  1.00 63.20      SS19
ATOM  50518  C   ALA S  50     243.036  94.868  31.097  1.00 93.20      SS19
ATOM  50519  O   ALA S  50     242.344  95.408  31.961  1.00 93.20      SS19
ATOM  50520  N   VAL S  51     243.211  95.381  29.886  1.00 84.04      SS19
ATOM  50521  CA  VAL S  51     242.592  96.636  29.502  1.00 84.04      SS19
ATOM  50522  CB  VAL S  51     243.457  97.372  28.440  1.00 61.43      SS19
ATOM  50523  CG1 VAL S  51     242.966  98.807  28.261  1.00 61.43      SS19
ATOM  50524  CG2 VAL S  51     244.922  97.368  28.868  1.00 61.43      SS19
ATOM  50525  C   VAL S  51     241.186  96.389  28.959  1.00 84.04      SS19
ATOM  50526  O   VAL S  51     240.958  95.459  28.188  1.00 84.04      SS19
ATOM  50527  N   TYR S  52     240.247  97.225  29.387  1.00 72.34      SS19
ATOM  50528  CA  TYR S  52     238.857  97.126  28.958  1.00 72.34      SS19
ATOM  50529  CB  TYR S  52     237.957  97.871  29.950  1.00 85.89      SS19
ATOM  50530  CG  TYR S  52     236.469  97.612  29.816  1.00 85.89      SS19
ATOM  50531  CD1 TYR S  52     235.949  96.323  29.948  1.00 85.89      SS19
ATOM  50532  CE1 TYR S  52     234.569  96.089  29.917  1.00 85.89      SS19
ATOM  50533  CD2 TYR S  52     235.568  98.671  29.639  1.00 85.89      SS19
ATOM  50534  CE2 TYR S  52     234.185  98.450  29.608  1.00 85.89      SS19
ATOM  50535  CZ  TYR S  52     233.696  97.155  29.749  1.00 85.89      SS19
ATOM  50536  OH  TYR S  52     232.342  96.923  29.724  1.00 85.89      SS19
ATOM  50537  C   TYR S  52     238.730  97.755  27.575  1.00 72.34      SS19
ATOM  50538  O   TYR S  52     239.344  98.786  27.290  1.00 72.34      SS19
ATOM  50539  N   ASN S  53     237.933  97.132  26.717  1.00 87.47      SS19
ATOM  50540  CA  ASN S  53     237.728  97.639  25.369  1.00 87.47      SS19
ATOM  50541  CB  ASN S  53     237.842  96.495  24.373  1.00 75.95      SS19
ATOM  50542  CG  ASN S  53     236.951  95.341  24.733  1.00 75.95      SS19
ATOM  50543  OD1 ASN S  53     235.818  95.542  25.163  1.00 75.95      SS19
ATOM  50544  ND2 ASN S  53     237.448  94.122  24.558  1.00 75.95      SS19
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ATOM  50545  C   ASN S  53     236.352  98.293  25.252  1.00 87.47      SS19
ATOM  50546  O   ASN S  53     236.045  98.952  24.261  1.00 87.47      SS19
ATOM  50547  N   GLY S  54     235.529  98.109  26.277  1.00 76.05      SS19
ATOM  50548  CA  GLY S  54     234.192  98.681  26.269  1.00 76.05      SS19
ATOM  50549  C   GLY S  54     233.163  97.589  26.483  1.00 76.05      SS19
ATOM  50550  O   GLY S  54     232.003  97.851  26.813  1.00 76.05      SS19
ATOM  50551  N   LYS S  55     233.612  96.351  26.305  1.00 73.77      SS19
ATOM  50552  CA  LYS S  55     232.765  95.184  26.457  1.00 73.77      SS19
ATOM  50553  CB  LYS S  55     232.332  94.677  25.079  1.00128.21      SS19
ATOM  50554  CG  LYS S  55     231.594  93.348  25.106  1.00128.21      SS19
ATOM  50555  CD  LYS S  55     231.406  92.782  23.706  1.00128.21      SS19
ATOM  50556  CE  LYS S  55     230.758  91.405  23.753  1.00128.21      SS19
ATOM  50557  NZ  LYS S  55     230.701  90.772  22.407  1.00128.21      SS19
ATOM  50558  C   LYS S  55     233.485  94.065  27.205  1.00 73.77      SS19
ATOM  50559  O   LYS S  55     232.840  93.247  27.864  1.00 73.77      SS19
ATOM  50560  N   GLN S  56     234.817  94.032  27.104  1.00 72.18      SS19
ATOM  50561  CA  GLN S  56     235.628  92.994  27.754  1.00 72.18      SS19
ATOM  50562  CB  GLN S  56     235.960  91.887  26.747  1.00168.86      SS19
ATOM  50563  CG  GLN S  56     234.752  91.254  26.070  1.00168.86      SS19
ATOM  50564  CD  GLN S  56     233.912  90.417  27.017  1.00168.86      SS19
ATOM  50565  OE1 GLN S  56     234.394  89.445  27.597  1.00168.86      SS19
ATOM  50566  NE2 GLN S  56     232.645  90.789  27.173  1.00168.86      SS19
ATOM  50567  C   GLN S  56     236.939  93.515  28.358  1.00 72.18      SS19
ATOM  50568  O   GLN S  56     237.372  94.633  28.078  1.00 72.18      SS19
ATOM  50569  N   HIS S  57     237.557  92.686  29.196  1.00102.27      SS19
ATOM  50570  CA  HIS S  57     238.829  93.013  29.840  1.00102.27      SS19
ATOM  50571  CB  HIS S  57     238.772  92.743  31.349  1.00 94.54      SS19
ATOM  50572  CG  HIS S  57     238.172  93.860  32.143  1.00 94.54      SS19
ATOM  50573  CD2 HIS S  57     237.160  93.874  33.043  1.00 94.54      SS19
ATOM  50574  ND1 HIS S  57     238.629  95.158  32.062  1.00 94.54      SS19
ATOM  50575  CE1 HIS S  57     237.924  95.923  32.876  1.00 94.54      SS19
ATOM  50576  NE2 HIS S  57     237.027  95.168  33.483  1.00 94.54      SS19
ATOM  50577  C   HIS S  57     239.898  92.133  29.223  1.00102.27      SS19
ATOM  50578  O   HIS S  57     240.028  90.964  29.582  1.00102.27      SS19
ATOM  50579  N   VAL S  58     240.667  92.695  28.300  1.00 58.33      SS19
ATOM  50580  CA  VAL S  58     241.708  91.937  27.620  1.00 58.33      SS19
ATOM  50581  CB  VAL S  58     241.792  92.334  26.147  1.00 70.34      SS19
ATOM  50582  CG1 VAL S  58     240.540  91.885  25.411  1.00 70.34      SS19
ATOM  50583  CG2 VAL S  58     241.952  93.834  26.040  1.00 70.34      SS19
ATOM  50584  C   VAL S  58     243.092  92.090  28.236  1.00 58.33      SS19
ATOM  50585  O   VAL S  58     243.586  93.202  28.432  1.00 58.33      SS19
ATOM  50586  N   PRO S  59     243.744  90.961  28.534  1.00 86.32      SS19
ATOM  50587  CD  PRO S  59     243.312  89.590  28.204  1.00108.33      SS19
ATOM  50588  CA  PRO S  59     245.079  90.958  29.130  1.00 86.32      SS19
ATOM  50589  CB  PRO S  59     245.314  89.481  29.411  1.00108.33      SS19
ATOM  50590  CG  PRO S  59     244.609  88.822  28.257  1.00108.33      SS19
ATOM  50591  C   PRO S  59     246.097  91.529  28.153  1.00 86.32      SS19
ATOM  50592  O   PRO S  59     246.061  91.207  26.967  1.00 86.32      SS19
ATOM  50593  N   VAL S  60     247.002  92.372  28.651  1.00 78.41      SS19
ATOM  50594  CA  VAL S  60     248.025  92.984  27.803  1.00 78.41      SS19
ATOM  50595  CB  VAL S  60     247.713  94.470  27.533  1.00 58.45      SS19
ATOM  50596  CG1 VAL S  60     248.652  95.004  26.478  1.00 58.45      SS19
ATOM  50597  CG2 VAL S  60     246.268  94.632  27.090  1.00 58.45      SS19
ATOM  50598  C   VAL S  60     249.429  92.898  28.403  1.00 78.41      SS19
ATOM  50599  O   VAL S  60     249.816  93.734  29.220  1.00 78.41      SS19
ATOM  50600  N   TYR S  61     250.183  91.883  27.993  1.00140.80      SS19
ATOM  50601  CA  TYR S  61     251.549  91.692  28.471  1.00140.80      SS19
ATOM  50602  CB  TYR S  61     252.109  90.375  27.924  1.00130.62      SS19
ATOM  50603  CG  TYR S  61     253.435  89.930  28.514  1.00130.62      SS19
ATOM  50604  CD1 TYR S  61     253.912  88.637  28.289  1.00130.62      SS19
ATOM  50605  CE1 TYR S  61     255.132  88.211  28.810  1.00130.62      SS19
ATOM  50606  CD2 TYR S  61     254.217  90.793  29.283  1.00130.62      SS19
ATOM  50607  CE2 TYR S  61     255.442  90.378  29.811  1.00130.62      SS19
ATOM  50608  CZ  TYR S  61     255.892  89.085  29.570  1.00130.62      SS19
ATOM  50609  OH  TYR S  61     257.100  88.664  30.083  1.00130.62      SS19
ATOM  50610  C   TYR S  61     252.356  92.877  27.953  1.00140.80      SS19
ATOM  50611  O   TYR S  61     252.345  93.162  26.756  1.00140.80      SS19
ATOM  50612  N   ILE S  62     253.055  93.560  28.853  1.00 71.82      SS19
ATOM  50613  CA  ILE S  62     253.832  94.740  28.482  1.00 71.82      SS19
ATOM  50614  CB  ILE S  62     253.459  95.934  29.422  1.00 68.89      SS19
ATOM  50615  CG2 ILE S  62     252.808  95.411  30.686  1.00 68.89      SS19
ATOM  50616  CG1 ILE S  62     254.690  96.788  29.741  1.00 68.89      SS19
ATOM  50617  CD1 ILE S  62     255.258  97.551  28.553  1.00 68.89      SS19
ATOM  50618  C   ILE S  62     255.355  94.568  28.430  1.00 71.82      SS19
ATOM  50619  O   ILE S  62     255.987  94.255  29.433  1.00 71.82      SS19
ATOM  50620  N   THR S  63     255.934  94.796  27.250  1.00 61.14      SS19
ATOM  50621  CA  THR S  63     257.377  94.683  27.057  1.00 61.14      SS19
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ATOM  50622  CB  THR S  63     257.712  93.831  25.833  1.00108.89      SS19
ATOM  50623  OG1 THR S  63     256.902  92.651  25.835  1.00108.89      SS19
ATOM  50624  CG2 THR S  63     259.178  93.425  25.866  1.00108.89      SS19
ATOM  50625  C   THR S  63     258.015  96.060  26.862  1.00 61.14      SS19
ATOM  50626  O   THR S  63     257.337  97.031  26.517  1.00 61.14      SS19
ATOM  50627  N   GLU S  64     259.325  96.139  27.075  1.00 87.34      SS19
ATOM  50628  CA  GLU S  64     260.043  97.402  26.938  1.00 87.34      SS19
ATOM  50629  CB  GLU S  64     261.553  97.163  27.004  1.00164.81      SS19
ATOM  50630  CG  GLU S  64     262.364  98.444  27.074  1.00164.81      SS19
ATOM  50631  CD  GLU S  64     262.018  99.284  28.292  1.00164.81      SS19
ATOM  50632  OE1 GLU S  64     262.288  98.833  29.426  1.00164.81      SS19
ATOM  50633  OE2 GLU S  64     261.470 100.393  28.117  1.00164.81      SS19
ATOM  50634  C   GLU S  64     259.701  98.127  25.643  1.00 87.34      SS19
ATOM  50635  O   GLU S  64     259.424  99.324  25.646  1.00 87.34      SS19
ATOM  50636  N   ASN S  65     259.715  97.393  24.539  1.00 99.68      SS19
ATOM  50637  CA  ASN S  65     259.418  97.957  23.228  1.00 99.68      SS19
ATOM  50638  CB  ASN S  65     259.413  96.847  22.182  1.00122.86      SS19
ATOM  50639  CG  ASN S  65     258.898  95.541  22.736  1.00122.86      SS19
ATOM  50640  OD1 ASN S  65     259.623  94.820  23.419  1.00122.86      SS19
ATOM  50641  ND2 ASN S  65     257.635  95.235  22.462  1.00122.86      SS19
ATOM  50642  C   ASN S  65     258.104  98.722  23.136  1.00 99.68      SS19
ATOM  50643  O   ASN S  65     257.977  99.646  22.333  1.00 99.68      SS19
ATOM  50644  N   MET S  66     257.130  98.350  23.957  1.00 87.76      SS19
ATOM  50645  CA  MET S  66     255.823  99.000  23.912  1.00 87.76      SS19
ATOM  50646  CB  MET S  66     254.729  97.935  23.871  1.00 75.68      SS19
ATOM  50647  CG  MET S  66     254.656  97.100  25.129  1.00 75.68      SS19
ATOM  50648  SD  MET S  66     253.255  96.001  25.120  1.00 75.68      SS19
ATOM  50649  CE  MET S  66     253.975  94.591  24.304  1.00 75.68      SS19
ATOM  50650  C   MET S  66     255.509  99.971  25.046  1.00 87.76      SS19
ATOM  50651  O   MET S  66     254.344 100.139  25.412  1.00 87.76      SS19
ATOM  50652  N   VAL S  67     256.527 100.619  25.599  1.00107.18      SS19
ATOM  50653  CA  VAL S  67     256.293 101.554  26.691  1.00107.18      SS19
ATOM  50654  CB  VAL S  67     257.622 102.100  27.257  1.00129.78      SS19
ATOM  50655  CG1 VAL S  67     257.344 103.068  28.398  1.00129.78      SS19
ATOM  50656  CG2 VAL S  67     258.482 100.951  27.752  1.00129.78      SS19
ATOM  50657  C   VAL S  67     255.405 102.725  26.268  1.00107.18      SS19
ATOM  50658  O   VAL S  67     254.184 102.591  26.202  1.00107.18      SS19
ATOM  50659  N   GLY S  68     256.035 103.861  25.983  1.00 65.43      SS19
ATOM  50660  CA  GLY S  68     255.334 105.074  25.580  1.00 65.43      SS19
ATOM  50661  C   GLY S  68     253.877 105.013  25.136  1.00 65.43      SS19
ATOM  50662  O   GLY S  68     253.072 105.880  25.497  1.00 65.43      SS19
ATOM  50663  N   HIS S  69     253.534 104.010  24.335  1.00 89.40      SS19
ATOM  50664  CA  HIS S  69     252.168 103.868  23.857  1.00 89.40      SS19
ATOM  50665  CB  HIS S  69     252.031 102.604  23.007  1.00 99.84      SS19
ATOM  50666  CG  HIS S  69     253.024 102.519  21.893  1.00 99.84      SS19
ATOM  50667  CD2 HIS S  69     253.895 101.541  21.548  1.00 99.84      SS19
ATOM  50668  ND1 HIS S  69     253.212 103.538  20.985  1.00 99.84      SS19
ATOM  50669  CE1 HIS S  69     254.157 103.193  20.129  1.00 99.84      SS19
ATOM  50670  NE2 HIS S  69     254.588 101.986  20.448  1.00 99.84      SS19
ATOM  50671  C   HIS S  69     251.227 103.784  25.047  1.00 89.40      SS19
ATOM  50672  O   HIS S  69     251.669 103.636  26.186  1.00 89.40      SS19
ATOM  50673  N   LYS S  70     249.930 103.881  24.780  1.00105.54      SS19
ATOM  50674  CA  LYS S  70     248.928 103.799  25.833  1.00105.54      SS19
ATOM  50675  CB  LYS S  70     247.964 104.977  25.721  1.00 62.08      SS19
ATOM  50676  CG  LYS S  70     248.493 106.231  26.391  1.00 62.08      SS19
ATOM  50677  CD  LYS S  70     248.241 107.472  25.573  1.00 62.08      SS19
ATOM  50678  CE  LYS S  70     248.644 108.699  26.361  1.00 62.08      SS19
ATOM  50679  NZ  LYS S  70     248.600 109.926  25.529  1.00 62.08      SS19
ATOM  50680  C   LYS S  70     248.170 102.479  25.785  1.00105.54      SS19
ATOM  50681  O   LYS S  70     247.921 101.932  24.713  1.00105.54      SS19
ATOM  50682  N   LEU S  71     247.819 101.966  26.957  1.00 66.64      SS19
ATOM  50683  CA  LEU S  71     247.097 100.704  27.069  1.00 66.64      SS19
ATOM  50684  CB  LEU S  71     246.374 100.633  28.418  1.00 78.89      SS19
ATOM  50685  CG  LEU S  71     247.197 100.523  29.699  1.00 78.89      SS19
ATOM  50686  CD1 LEU S  71     246.277 100.655  30.888  1.00 78.89      SS19
ATOM  50687  CD2 LEU S  71     247.922  99.190  29.737  1.00 78.89      SS19
ATOM  50688  C   LEU S  71     246.077 100.490  25.951  1.00 66.64      SS19
ATOM  50689  O   LEU S  71     246.053  99.435  25.309  1.00 66.64      SS19
ATOM  50690  N   GLY S  72     245.235 101.497  25.732  1.00 95.32      SS19
ATOM  50691  CA  GLY S  72     244.206 101.408  24.712  1.00 95.32      SS19
ATOM  50692  C   GLY S  72     244.683 100.877  23.376  1.00 95.32      SS19
ATOM  50693  O   GLY S  72     244.017 100.045  22.756  1.00 95.32      SS19
ATOM  50694  N   GLU S  73     245.836 101.360  22.929  1.00102.46      SS19
ATOM  50695  CA  GLU S  73     246.402 100.929  21.660  1.00102.46      SS19
ATOM  50696  CB  GLU S  73     247.780 101.550  21.449  1.00108.30      SS19
ATOM  50697  CG  GLU S  73     247.765 103.033  21.170  1.00108.30      SS19
ATOM  50698  CD  GLU S  73     249.159 103.576  20.936  1.00108.30      SS19
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ATOM  50699  OE1 GLU S  73     249.890 102.994  20.104  1.00108.30      SS19
ATOM  50700  OE2 GLU S  73     249.523 104.582  21.580  1.00108.30      SS19
ATOM  50701  C   GLU S  73     246.541  99.422  21.583  1.00102.46      SS19
ATOM  50702  O   GLU S  73     246.718  98.868  20.501  1.00102.46      SS19
ATOM  50703  N   PHE S  74     246.458  98.755  22.727  1.00 64.94      SS19
ATOM  50704  CA  PHE S  74     246.609  97.307  22.757  1.00 64.94      SS19
ATOM  50705  CB  PHE S  74     247.670  96.936  23.796  1.00 66.92      SS19
ATOM  50706  CG  PHE S  74     249.006  97.588  23.534  1.00 66.92      SS19
ATOM  50707  CD1 PHE S  74     249.143  98.980  23.598  1.00 66.92      SS19
ATOM  50708  CD2 PHE S  74     250.105  96.829  23.139  1.00 66.92      SS19
ATOM  50709  CE1 PHE S  74     250.351  99.603  23.264  1.00 66.92      SS19
ATOM  50710  CE2 PHE S  74     251.316  97.443  22.803  1.00 66.92      SS19
ATOM  50711  CZ  PHE S  74     251.437  98.832  22.864  1.00 66.92      SS19
ATOM  50712  C   PHE S  74     245.294  96.567  22.996  1.00 64.94      SS19
ATOM  50713  O   PHE S  74     245.224  95.340  22.883  1.00 64.94      SS19
ATOM  50714  N   ALA S  75     244.249  97.330  23.298  1.00 79.01      SS19
ATOM  50715  CA  ALA S  75     242.922  96.777  23.529  1.00 79.01      SS19
ATOM  50716  CB  ALA S  75     242.458  97.104  24.939  1.00 74.85      SS19
ATOM  50717  C   ALA S  75     241.987  97.411  22.508  1.00 79.01      SS19
ATOM  50718  O   ALA S  75     241.302  98.387  22.810  1.00 79.01      SS19
ATOM  50719  N   PRO S  76     241.949  96.862  21.281  1.00 52.71      SS19
ATOM  50720  CD  PRO S  76     242.627  95.622  20.871  1.00 56.38      SS19
ATOM  50721  CA  PRO S  76     241.100  97.369  20.195  1.00 52.71      SS19
ATOM  50722  CB  PRO S  76     241.428  96.427  19.039  1.00 56.38      SS19
ATOM  50723  CG  PRO S  76     241.752  95.150  19.735  1.00 56.38      SS19
ATOM  50724  C   PRO S  76     239.599  97.438  20.507  1.00 52.71      SS19
ATOM  50725  O   PRO S  76     239.002  96.486  20.996  1.00 52.71      SS19
ATOM  50726  N   THR S  77     239.005  98.583  20.206  1.00 70.83      SS19
ATOM  50727  CA  THR S  77     237.594  98.818  20.453  1.00 70.83      SS19
ATOM  50728  CB  THR S  77     237.233 100.285  20.220  1.00 59.16      SS19
ATOM  50729  OG1 THR S  77     237.505 101.037  21.401  1.00 59.16      SS19
ATOM  50730  CG2 THR S  77     235.767 100.414  19.872  1.00 59.16      SS19
ATOM  50731  C   THR S  77     236.593  98.015  19.638  1.00 70.83      SS19
ATOM  50732  O   THR S  77     235.766  97.285  20.194  1.00 70.83      SS19
ATOM  50733  N   ARG S  78     236.653  98.184  18.318  1.00 69.29      SS19
ATOM  50734  CA  ARG S  78     235.711  97.546  17.405  1.00 69.29      SS19
ATOM  50735  CB  ARG S  78     235.506  98.462  16.213  1.00 44.59      SS19
ATOM  50736  CG  ARG S  78     235.387  99.934  16.606  1.00 44.59      SS19
ATOM  50737  CD  ARG S  78     235.273 100.806  15.371  1.00 44.59      SS19
ATOM  50738  NE  ARG S  78     236.086 102.011  15.483  1.00 44.59      SS19
ATOM  50739  CZ  ARG S  78     235.647 103.178  15.938  1.00 44.59      SS19
ATOM  50740  NH1 ARG S  78     234.392 103.320  16.327  1.00 44.59      SS19
ATOM  50741  NH2 ARG S  78     236.472 104.209  16.009  1.00 44.59      SS19
ATOM  50742  C   ARG S  78     236.058  96.154  16.919  1.00 69.29      SS19
ATOM  50743  O   ARG S  78     237.182  95.693  17.080  1.00 69.29      SS19
ATOM  50744  N   THR S  79     235.067  95.494  16.324  1.00 93.92      SS19
ATOM  50745  CA  THR S  79     235.214  94.139  15.784  1.00 93.92      SS19
ATOM  50746  CB  THR S  79     234.274  93.148  16.503  1.00 69.01      SS19
ATOM  50747  OG1 THR S  79     234.502  93.201  17.919  1.00 69.01      SS19
ATOM  50748  CG2 THR S  79     234.519  91.742  16.014  1.00 69.01      SS19
ATOM  50749  C   THR S  79     234.863  94.154  14.292  1.00 93.92      SS19
ATOM  50750  O   THR S  79     233.730  94.467  13.918  1.00 93.92      SS19
ATOM  50751  N   TYR S  80     235.833  93.814  13.444  1.00 81.90      SS19
ATOM  50752  CA  TYR S  80     235.623  93.819  11.993  1.00 81.90      SS19
ATOM  50753  CB  TYR S  80     236.318  95.030  11.365  1.00 79.00      SS19
ATOM  50754  CG  TYR S  80     236.187  95.117   9.860  1.00 79.00      SS19
ATOM  50755  CD1 TYR S  80     235.433  96.123   9.265  1.00 79.00      SS19
ATOM  50756  CE1 TYR S  80     235.307  96.208   7.870  1.00 79.00      SS19
ATOM  50757  CD2 TYR S  80     236.815  94.192   9.026  1.00 79.00      SS19
ATOM  50758  CE2 TYR S  80     236.690  94.262   7.636  1.00 79.00      SS19
ATOM  50759  CZ  TYR S  80     235.936  95.273   7.066  1.00 79.00      SS19
ATOM  50760  OH  TYR S  80     235.802  95.354   5.700  1.00 79.00      SS19
ATOM  50761  C   TYR S  80     236.145  92.558  11.328  1.00 81.90      SS19
ATOM  50762  O   TYR S  80     237.233  92.087  11.655  1.00 81.90      SS19
ATOM  50763  N   ARG S  81     235.370  92.032  10.380  1.00149.28      SS19
ATOM  50764  CA  ARG S  81     235.761  90.833   9.653  1.00149.28      SS19
ATOM  50765  CB  ARG S  81     237.054  91.117   8.884  1.00171.13      SS19
ATOM  50766  CG  ARG S  81     237.696  89.953   8.162  1.00171.13      SS19
ATOM  50767  CD  ARG S  81     239.050  90.401   7.616  1.00171.13      SS19
ATOM  50768  NE  ARG S  81     239.914  89.290   7.226  1.00171.13      SS19
ATOM  50769  CZ  ARG S  81     241.188  89.431   6.872  1.00171.13      SS19
ATOM  50770  NH1 ARG S  81     241.744  90.636   6.858  1.00171.13      SS19
ATOM  50771  NH2 ARG S  81     241.910  88.369   6.538  1.00171.13      SS19
ATOM  50772  C   ARG S  81     235.954  89.699  10.655  1.00149.28      SS19
ATOM  50773  O   ARG S  81     237.104  89.248  10.836  1.00149.28      SS19
ATOM  50774  OXT ARG S  81     234.945  89.286  11.266  1.00171.13      SS19
TER   50774       ARG S  81                                              SS19
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ATOM  50775  CB  ARG T   8     132.696  42.008   8.470  1.00107.37      TS20
ATOM  50776  CG  ARG T   8     134.086  42.413   8.003  1.00107.37      TS20
ATOM  50777  CD  ARG T   8     134.857  41.194   7.522  1.00107.37      TS20
ATOM  50778  NE  ARG T   8     135.071  40.239   8.608  1.00107.37      TS20
ATOM  50779  CZ  ARG T   8     135.538  39.004   8.447  1.00107.37      TS20
ATOM  50780  NH1 ARG T   8     135.843  38.559   7.234  1.00107.37      TS20
ATOM  50781  NH2 ARG T   8     135.706  38.213   9.502  1.00107.37      TS20
ATOM  50782  C   ARG T   8     130.401  42.691   9.139  1.00 92.48      TS20
ATOM  50783  O   ARG T   8     129.825  42.591  10.219  1.00 92.48      TS20
ATOM  50784  N   ARG T   8     132.384  43.556  10.389  1.00 92.48      TS20
ATOM  50785  CA  ARG T   8     131.852  43.145   9.057  1.00 92.48      TS20
ATOM  50786  N   ASN T   9     129.824  42.428   7.972  1.00 78.16      TS20
ATOM  50787  CA  ASN T   9     128.448  41.962   7.835  1.00 78.16      TS20
ATOM  50788  CB  ASN T   9     128.237  40.694   8.669  1.00175.84      TS20
ATOM  50789  CG  ASN T   9     126.942  39.985   8.327  1.00175.84      TS20
ATOM  50790  OD1 ASN T   9     125.855  40.535   8.506  1.00175.84      TS20
ATOM  50791  ND2 ASN T   9     127.052  38.758   7.825  1.00175.84      TS20
ATOM  50792  C   ASN T   9     127.360  42.983   8.170  1.00 78.16      TS20
ATOM  50793  O   ASN T   9     126.896  43.073   9.306  1.00 78.16      TS20
ATOM  50794  N   LEU T  10     126.962  43.750   7.162  1.00 36.02      TS20
ATOM  50795  CA  LEU T  10     125.904  44.744   7.307  1.00 36.02      TS20
ATOM  50796  CB  LEU T  10     126.205  45.964   6.431  1.00100.65      TS20
ATOM  50797  CG  LEU T  10     125.481  47.288   6.701  1.00100.65      TS20
ATOM  50798  CD1 LEU T  10     123.973  47.096   6.667  1.00100.65      TS20
ATOM  50799  CD2 LEU T  10     125.928  47.823   8.052  1.00100.65      TS20
ATOM  50800  C   LEU T  10     124.649  44.028   6.806  1.00 36.02      TS20
ATOM  50801  O   LEU T  10     124.513  43.785   5.617  1.00 36.02      TS20
ATOM  50802  N   SER T  11     123.739  43.688   7.709  1.00 47.62      TS20
ATOM  50803  CA  SER T  11     122.540  42.963   7.315  1.00 47.62      TS20
ATOM  50804  CB  SER T  11     121.615  42.761   8.520  1.00 94.76      TS20
ATOM  50805  OG  SER T  11     122.074  41.680   9.326  1.00 94.76      TS20
ATOM  50806  C   SER T  11     121.768  43.528   6.130  1.00 47.62      TS20
ATOM  50807  O   SER T  11     120.913  42.842   5.564  1.00 47.62      TS20
ATOM  50808  N   ALA T  12     122.068  44.762   5.738  1.00 61.00      TS20
ATOM  50809  CA  ALA T  12     121.409  45.349   4.573  1.00 61.00      TS20
ATOM  50810  CB  ALA T  12     121.452  46.863   4.659  1.00108.76      TS20
ATOM  50811  C   ALA T  12     122.073  44.858   3.257  1.00 61.00      TS20
ATOM  50812  O   ALA T  12     122.474  45.649   2.409  1.00 61.00      TS20
ATOM  50813  N   LEU T  13     122.225  43.539   3.133  1.00 61.22      TS20
ATOM  50814  CA  LEU T  13     122.770  42.899   1.934  1.00 61.22      TS20
ATOM  50815  CB  LEU T  13     123.672  41.715   2.275  1.00 29.41      TS20
ATOM  50816  CG  LEU T  13     124.438  41.674   3.595  1.00 29.41      TS20
ATOM  50817  CD1 LEU T  13     123.430  41.381   4.685  1.00 29.41      TS20
ATOM  50818  CD2 LEU T  13     125.506  40.586   3.589  1.00 29.41      TS20
ATOM  50819  C   LEU T  13     121.461  42.371   1.392  1.00 61.22      TS20
ATOM  50820  O   LEU T  13     121.288  42.119   0.203  1.00 61.22      TS20
ATOM  50821  N   LYS T  14     120.548  42.186   2.335  1.00 20.95      TS20
ATOM  50822  CA  LYS T  14     119.186  41.772   2.071  1.00 20.95      TS20
ATOM  50823  CB  LYS T  14     118.348  42.013   3.317  1.00 27.97      TS20
ATOM  50824  CG  LYS T  14     116.883  41.829   3.091  1.00 27.97      TS20
ATOM  50825  CD  LYS T  14     116.107  42.014   4.369  1.00 27.97      TS20
ATOM  50826  CE  LYS T  14     114.627  41.799   4.102  1.00 27.97      TS20
ATOM  50827  NZ  LYS T  14     113.804  42.146   5.280  1.00 27.97      TS20
ATOM  50828  C   LYS T  14     118.615  42.605   0.925  1.00 20.95      TS20
ATOM  50829  O   LYS T  14     117.797  42.135   0.151  1.00 20.95      TS20
ATOM  50830  N   ARG T  15     119.035  43.860   0.835  1.00 30.68      TS20
ATOM  50831  CA  ARG T  15     118.569  44.728  -0.231  1.00 30.68      TS20
ATOM  50832  CB  ARG T  15     119.081  46.124  -0.011  1.00 31.88      TS20
ATOM  50833  CG  ARG T  15     118.143  46.981   0.768  1.00 31.88      TS20
ATOM  50834  CD  ARG T  15     117.011  47.435  -0.108  1.00 31.88      TS20
ATOM  50835  NE  ARG T  15     116.289  48.516   0.540  1.00 31.88      TS20
ATOM  50836  CZ  ARG T  15     115.158  49.033   0.082  1.00 31.88      TS20
ATOM  50837  NH1 ARG T  15     114.617  48.570  -1.038  1.00 31.88      TS20
ATOM  50838  NH2 ARG T  15     114.553  49.994   0.760  1.00 31.88      TS20
ATOM  50839  C   ARG T  15     119.068  44.216  -1.556  1.00 30.68      TS20
ATOM  50840  O   ARG T  15     118.343  44.210  -2.538  1.00 30.68      TS20
ATOM  50841  N   HIS T  16     120.321  43.788  -1.582  1.00 38.15      TS20
ATOM  50842  CA  HIS T  16     120.891  43.259  -2.807  1.00 38.15      TS20
ATOM  50843  CB  HIS T  16     122.369  43.001  -2.616  1.00 77.04      TS20
ATOM  50844  CG  HIS T  16     123.041  42.459  -3.830  1.00 77.04      TS20
ATOM  50845  CD2 HIS T  16     123.886  43.041  -4.710  1.00 77.04      TS20
ATOM  50846  ND1 HIS T  16     122.884  41.157  -4.248  1.00 77.04      TS20
ATOM  50847  CE1 HIS T  16     123.611  40.957  -5.332  1.00 77.04      TS20
ATOM  50848  NE2 HIS T  16     124.230  42.085  -5.633  1.00 77.04      TS20
ATOM  50849  C   HIS T  16     120.171  41.961  -3.103  1.00 38.15      TS20
ATOM  50850  O   HIS T  16     119.786  41.670  -4.240  1.00 38.15      TS20
ATOM  50851  N   ARG T  17     119.995  41.190  -2.041  1.00 35.16      TS20
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ATOM  50852  CA  ARG T  17     119.315  39.917  -2.082  1.00 35.16       TS20
ATOM  50853  CB  ARG T  17     119.089  39.483  -0.638  1.00 31.64       TS20
ATOM  50854  CG  ARG T  17     118.824  38.021  -0.392  1.00 31.64       TS20
ATOM  50855  CD  ARG T  17     118.406  37.797   1.063  1.00 31.64       TS20
ATOM  50856  NE  ARG T  17     119.463  38.110   2.024  1.00 31.64       TS20
ATOM  50857  CZ  ARG T  17     119.244  38.385   3.311  1.00 31.64       TS20
ATOM  50858  NH1 ARG T  17     118.003  38.390   3.796  1.00 31.64       TS20
ATOM  50859  NH2 ARG T  17     120.263  38.661   4.118  1.00 31.64       TS20
ATOM  50860  C   ARG T  17     117.980  40.124  -2.821  1.00 35.16       TS20
ATOM  50861  O   ARG T  17     117.654  39.397  -3.767  1.00 35.16       TS20
ATOM  50862  N   GLN T  18     117.224  41.136  -2.408  1.00 30.85       TS20
ATOM  50863  CA  GLN T  18     115.935  41.419  -3.024  1.00 30.85       TS20
ATOM  50864  CB  GLN T  18     115.144  42.408  -2.168  1.00 60.32       TS20
ATOM  50865  CG  GLN T  18     114.986  41.958  -0.732  1.00 60.32       TS20
ATOM  50866  CD  GLN T  18     114.341  42.999   0.155  1.00 60.32       TS20
ATOM  50867  OE1 GLN T  18     114.803  44.136   0.248  1.00 60.32       TS20
ATOM  50868  NE2 GLN T  18     113.271  42.610   0.823  1.00 60.32       TS20
ATOM  50869  C   GLN T  18     116.043  41.963  -4.445  1.00 30.85       TS20
ATOM  50870  O   GLN T  18     115.329  41.512  -5.348  1.00 30.85       TS20
ATOM  50871  N   SER T  19     116.932  42.929  -4.659  1.00 47.02       TS20
ATOM  50872  CA  SER T  19     117.074  43.515  -5.984  1.00 47.02       TS20
ATOM  50873  CB  SER T  19     118.326  44.371  -6.052  1.00 54.78       TS20
ATOM  50874  OG  SER T  19     119.467  43.549  -5.974  1.00 54.78       TS20
ATOM  50875  C   SER T  19     117.141  42.424  -7.046  1.00 47.02       TS20
ATOM  50876  O   SER T  19     116.594  42.568  -8.135  1.00 47.02       TS20
ATOM  50877  N   LEU T  20     117.797  41.320  -6.725  1.00 35.57       TS20
ATOM  50878  CA  LEU T  20     117.915  40.233  -7.680  1.00 35.57       TS20
ATOM  50879  CB  LEU T  20     118.835  39.173  -7.113  1.00 40.11       TS20
ATOM  50880  CG  LEU T  20     120.196  39.803  -6.895  1.00 40.11       TS20
ATOM  50881  CD1 LEU T  20     121.085  38.882  -6.137  1.00 40.11       TS20
ATOM  50882  CD2 LEU T  20     120.796  40.144  -8.248  1.00 40.11       TS20
ATOM  50883  C   LEU T  20     116.574  39.621  -8.056  1.00 35.57       TS20
ATOM  50884  O   LEU T  20     116.351  39.274  -9.216  1.00 35.57       TS20
ATOM  50885  N   LYS T  21     115.683  39.476  -7.076  1.00 34.12       TS20
ATOM  50886  CA  LYS T  21     114.370  38.902  -7.346  1.00 34.12       TS20
ATOM  50887  CB  LYS T  21     113.600  38.634  -6.053  1.00 58.03       TS20
ATOM  50888  CG  LYS T  21     114.256  37.694  -5.056  1.00 58.03       TS20
ATOM  50889  CD  LYS T  21     113.291  37.478  -3.898  1.00 58.03       TS20
ATOM  50890  CE  LYS T  21     113.985  36.986  -2.646  1.00 58.03       TS20
ATOM  50891  NZ  LYS T  21     113.115  37.260  -1.462  1.00 58.03       TS20
ATOM  50892  C   LYS T  21     113.607  39.919  -8.169  1.00 34.12       TS20
ATOM  50893  O   LYS T  21     112.972  39.577  -9.169  1.00 34.12       TS20
ATOM  50894  N   ARG T  22     113.671  41.174  -7.724  1.00 34.08       TS20
ATOM  50895  CA  ARG T  22     113.009  42.279  -8.408  1.00 34.08       TS20
ATOM  50896  CB  ARG T  22     113.233  43.570  -7.628  1.00 74.88       TS20
ATOM  50897  CG  ARG T  22     112.389  43.646  -6.386  1.00 74.88       TS20
ATOM  50898  CD  ARG T  22     112.668  44.896  -5.570  1.00 74.88       TS20
ATOM  50899  NE  ARG T  22     111.570  45.171  -4.648  1.00 74.88       TS20
ATOM  50900  CZ  ARG T  22     110.361  45.550  -5.047  1.00 74.88       TS20
ATOM  50901  NH1 ARG T  22     110.110  45.702  -6.343  1.00 74.88       TS20
ATOM  50902  NH2 ARG T  22     109.399  45.755  -4.156  1.00 74.88       TS20
ATOM  50903  C   ARG T  22     113.573  42.395  -9.827  1.00 34.08       TS20
ATOM  50904  O   ARG T  22     112.832  42.593 -10.800  1.00 34.08       TS20
ATOM  50905  N   ARG T  23     114.893  42.263  -9.929  1.00 35.11       TS20
ATOM  50906  CA  ARG T  23     115.549  42.320 -11.208  1.00 35.11       TS20
ATOM  50907  CB  ARG T  23     117.032  42.032 -11.054  1.00 68.73       TS20
ATOM  50908  CG  ARG T  23     117.744  41.834 -12.363  1.00 68.73       TS20
ATOM  50909  CD  ARG T  23     119.244  41.939 -12.204  1.00 68.73       TS20
ATOM  50910  NE  ARG T  23     119.895  41.400 -13.387  1.00 68.73       TS20
ATOM  50911  CZ  ARG T  23     119.937  40.103 -13.685  1.00 68.73       TS20
ATOM  50912  NH1 ARG T  23     119.374  39.210 -12.872  1.00 68.73       TS20
ATOM  50913  NH2 ARG T  23     120.510  39.698 -14.815  1.00 68.73       TS20
ATOM  50914  C   ARG T  23     114.894  41.263 -12.071  1.00 35.11       TS20
ATOM  50915  O   ARG T  23     114.168  41.579 -13.011  1.00 35.11       TS20
ATOM  50916  N   LEU T  24     115.113  40.001 -11.729  1.00 46.00       TS20
ATOM  50917  CA  LEU T  24     114.526  38.909 -12.498  1.00 46.00       TS20
ATOM  50918  CB  LEU T  24     114.749  37.582 -11.783  1.00 65.29       TS20
ATOM  50919  CG  LEU T  24     114.162  36.422 -12.580  1.00 65.29       TS20
ATOM  50920  CD1 LEU T  24     114.837  36.364 -13.940  1.00 65.29       TS20
ATOM  50921  CD2 LEU T  24     114.355  35.121 -11.831  1.00 65.29       TS20
ATOM  50922  C   LEU T  24     113.029  39.073 -12.788  1.00 46.00       TS20
ATOM  50923  O   LEU T  24     112.533  38.596 -13.799  1.00 46.00       TS20
ATOM  50924  N   ARG T  25     112.309  39.745 -11.904  1.00 43.25       TS20
ATOM  50925  CA  ARG T  25     110.886  39.929 -12.109  1.00 43.25       TS20
ATOM  50926  CB  ARG T  25     110.254  40.536 -10.860  1.00106.06       TS20
ATOM  50927  CG  ARG T  25     108.737  40.552 -10.869  1.00106.06       TS20
ATOM  50928  CD  ARG T  25     108.189  39.540  -9.885  1.00106.06       TS20
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ATOM  50929  NE  ARG T  25     108.707  39.779  -8.540  1.00106.06       TS20
ATOM  50930  CZ  ARG T  25     108.473  38.993  -7.492  1.00106.06       TS20
ATOM  50931  NH1 ARG T  25     107.723  37.902  -7.626  1.00106.06       TS20
ATOM  50932  NH2 ARG T  25     108.994  39.299  -6.309  1.00106.06       TS20
ATOM  50933  C   ARG T  25     110.644  40.840 -13.309  1.00 43.25       TS20
ATOM  50934  O   ARG T  25     109.774  40.566 -14.140  1.00 43.25       TS20
ATOM  50935  N   ASN T  26     111.421  41.921 -13.393  1.00 39.55       TS20
ATOM  50936  CA  ASN T  26     111.295  42.900 -14.480  1.00 39.55       TS20
ATOM  50937  CB  ASN T  26     112.114  44.146 -14.171  1.00 50.61       TS20
ATOM  50938  CG  ASN T  26     111.422  45.062 -13.198  1.00 50.61       TS20
ATOM  50939  OD1 ASN T  26     110.348  45.582 -13.494  1.00 50.61       TS20
ATOM  50940  ND2 ASN T  26     112.028  45.270 -12.029  1.00 50.61       TS20
ATOM  50941  C   ASN T  26     111.759  42.331 -15.794  1.00 39.55       TS20
ATOM  50942  O   ASN T  26     111.005  42.311 -16.771  1.00 39.55       TS20
ATOM  50943  N   LYS T  27     113.014  41.877 -15.801  1.00 37.89       TS20
ATOM  50944  CA  LYS T  27     113.628  41.283 -16.974  1.00 37.89       TS20
ATOM  50945  CB  LYS T  27     114.803  40.391 -16.557  1.00 71.51       TS20
ATOM  50946  CG  LYS T  27     115.402  39.560 -17.699  1.00 71.51       TS20
ATOM  50947  CD  LYS T  27     116.771  38.947 -17.347  1.00 71.51       TS20
ATOM  50948  CE  LYS T  27     116.707  37.985 -16.163  1.00 71.51       TS20
ATOM  50949  NZ  LYS T  27     118.044  37.433 -15.782  1.00 71.51       TS20
ATOM  50950  C   LYS T  27     112.555  40.467 -17.668  1.00 37.89       TS20
ATOM  50951  O   LYS T  27     112.390  40.535 -18.881  1.00 37.89       TS20
ATOM  50952  N   ALA T  28     111.799  39.723 -16.872  1.00 48.96       TS20
ATOM  50953  CA  ALA T  28     110.732  38.884 -17.376  1.00 48.96       TS20
ATOM  50954  CB  ALA T  28     110.169  38.066 -16.260  1.00 47.95       TS20
ATOM  50955  C   ALA T  28     109.627  39.696 -18.019  1.00 48.96       TS20
ATOM  50956  O   ALA T  28     109.407  39.605 -19.221  1.00 48.96       TS20
ATOM  50957  N   LYS T  29     108.926  40.492 -17.223  1.00 50.97       TS20
ATOM  50958  CA  LYS T  29     107.822  41.290 -17.755  1.00 50.97       TS20
ATOM  50959  CB  LYS T  29     107.361  42.327 -16.727  1.00 32.50       TS20
ATOM  50960  CG  LYS T  29     106.653  41.752 -15.516  1.00 32.50       TS20
ATOM  50961  CD  LYS T  29     106.079  42.877 -14.684  1.00 32.50       TS20
ATOM  50962  CE  LYS T  29     105.166  42.399 -13.562  1.00 32.50       TS20
ATOM  50963  NZ  LYS T  29     105.858  41.902 -12.335  1.00 32.50       TS20
ATOM  50964  C   LYS T  29     108.142  41.986 -19.077  1.00 50.97       TS20
ATOM  50965  O   LYS T  29     107.367  41.900 -20.033  1.00 50.97       TS20
ATOM  50966  N   LYS T  30     109.279  42.669 -19.135  1.00 45.80       TS20
ATOM  50967  CA  LYS T  30     109.650  43.365 -20.354  1.00 45.80       TS20
ATOM  50968  CB  LYS T  30     110.994  44.055 -20.189  1.00 61.85       TS20
ATOM  50969  CG  LYS T  30     110.889  45.376 -19.461  1.00 61.85       TS20
ATOM  50970  CD  LYS T  30     112.258  45.956 -19.149  1.00 61.85       TS20
ATOM  50971  CE  LYS T  30     112.137  47.203 -18.277  1.00 61.85       TS20
ATOM  50972  NZ  LYS T  30     113.442  47.568 -17.653  1.00 61.85       TS20
ATOM  50973  C   LYS T  30     109.692  42.404 -21.520  1.00 45.80       TS20
ATOM  50974  O   LYS T  30     108.998  42.601 -22.514  1.00 45.80       TS20
ATOM  50975  N   SER T  31     110.496  41.358 -21.385  1.00 41.86       TS20
ATOM  50976  CA  SER T  31     110.630  40.348 -22.425  1.00 41.86       TS20
ATOM  50977  CB  SER T  31     111.196  39.073 -21.825  1.00 57.51       TS20
ATOM  50978  OG  SER T  31     112.388  39.364 -21.122  1.00 57.51       TS20
ATOM  50979  C   SER T  31     109.312  40.042 -23.132  1.00 41.86       TS20
ATOM  50980  O   SER T  31     109.232  40.080 -24.361  1.00 41.86       TS20
ATOM  50981  N   ALA T  32     108.273  39.735 -22.369  1.00 38.17       TS20
ATOM  50982  CA  ALA T  32     106.992  39.446 -22.990  1.00 38.17       TS20
ATOM  50983  CB  ALA T  32     105.931  39.215 -21.931  1.00112.05       TS20
ATOM  50984  C   ALA T  32     106.619  40.644 -23.845  1.00 38.17       TS20
ATOM  50985  O   ALA T  32     106.452  40.530 -25.055  1.00 38.17       TS20
ATOM  50986  N   ILE T  33     106.511  41.797 -23.196  1.00 35.06       TS20
ATOM  50987  CA  ILE T  33     106.148  43.038 -23.865  1.00 35.06       TS20
ATOM  50988  CB  ILE T  33     106.589  44.258 -23.044  1.00 42.99       TS20
ATOM  50989  CG2 ILE T  33     106.217  45.524 -23.776  1.00 42.99       TS20
ATOM  50990  CG1 ILE T  33     105.938  44.225 -21.663  1.00 42.99       TS20
ATOM  50991  CD1 ILE T  33     106.308  45.394 -20.781  1.00 42.99       TS20
ATOM  50992  C   ILE T  33     106.789  43.147 -25.238  1.00 35.06       TS20
ATOM  50993  O   ILE T  33     106.104  43.305 -26.244  1.00 35.06       TS20
ATOM  50994  N   LYS T  34     108.113  43.067 -25.264  1.00 40.94       TS20
ATOM  50995  CA  LYS T  34     108.863  43.163 -26.503  1.00 40.94       TS20
ATOM  50996  CB  LYS T  34     110.351  42.936 -26.226  1.00125.89       TS20
ATOM  50997  CG  LYS T  34     110.930  43.952 -25.247  1.00125.89       TS20
ATOM  50998  CD  LYS T  34     112.403  43.723 -24.953  1.00125.89       TS20
ATOM  50999  CE  LYS T  34     112.932  44.806 -24.017  1.00125.89       TS20
ATOM  51000  NZ  LYS T  34     114.361  44.611 -23.644  1.00125.89       TS20
ATOM  51001  C   LYS T  34     108.338  42.133 -27.482  1.00 40.94       TS20
ATOM  51002  O   LYS T  34     107.742  42.481 -28.514  1.00 40.94       TS20
ATOM  51003  N   THR T  35     108.543  40.865 -27.131  1.00 38.90       TS20
ATOM  51004  CA  THR T  35     108.115  39.738 -27.952  1.00 38.90       TS20
ATOM  51005  CB  THR T  35     108.052  38.452 -27.121  1.00 33.50       TS20
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ATOM  51006  OG1 THR T  35     109.356  38.172 -26.606  1.00 33.50       TS20
ATOM  51007  CG2 THR T  35     107.607  37.281 -27.975  1.00 33.50       TS20
ATOM  51008  C   THR T  35     106.773  39.949 -28.626  1.00 38.90       TS20
ATOM  51009  O   THR T  35     106.657  39.814 -29.835  1.00 38.90       TS20
ATOM  51010  N   LEU T  36     105.756  40.278 -27.845  1.00 40.94       TS20
ATOM  51011  CA  LEU T  36     104.445  40.501 -28.420  1.00 40.94       TS20
ATOM  51012  CB  LEU T  36     103.399  40.741 -27.321  1.00 47.05       TS20
ATOM  51013  CG  LEU T  36     103.107  39.567 -26.372  1.00 47.05       TS20
ATOM  51014  CD1 LEU T  36     101.793  39.813 -25.651  1.00 47.05       TS20
ATOM  51015  CD2 LEU T  36     103.026  38.261 -27.159  1.00 47.05       TS20
ATOM  51016  C   LEU T  36     104.511  41.695 -29.352  1.00 40.94       TS20
ATOM  51017  O   LEU T  36     104.121  41.606 -30.514  1.00 40.94       TS20
ATOM  51018  N   SER T  37     105.020  42.811 -28.843  1.00 34.83       TS20
ATOM  51019  CA  SER T  37     105.125  44.009 -29.650  1.00 34.83       TS20
ATOM  51020  CB  SER T  37     106.117  44.983 -29.028  1.00 53.19       TS20
ATOM  51021  OG  SER T  37     105.580  45.556 -27.847  1.00 53.19       TS20
ATOM  51022  C   SER T  37     105.571  43.594 -31.034  1.00 34.83       TS20
ATOM  51023  O   SER T  37     104.860  43.816 -32.017  1.00 34.83       TS20
ATOM  51024  N   LYS T  38     106.739  42.974 -31.113  1.00 38.96       TS20
ATOM  51025  CA  LYS T  38     107.219  42.513 -32.400  1.00 38.96       TS20
ATOM  51026  CB  LYS T  38     108.417  41.597 -32.207  1.00104.17       TS20
ATOM  51027  CG  LYS T  38     109.541  42.279 -31.460  1.00104.17       TS20
ATOM  51028  CD  LYS T  38     110.707  41.348 -31.220  1.00104.17       TS20
ATOM  51029  CE  LYS T  38     111.837  42.068 -30.505  1.00104.17       TS20
ATOM  51030  NZ  LYS T  38     112.947  41.133 -30.193  1.00104.17       TS20
ATOM  51031  C   LYS T  38     106.046  41.763 -33.029  1.00 38.96       TS20
ATOM  51032  O   LYS T  38     105.387  42.272 -33.940  1.00 38.96       TS20
ATOM  51033  N   LYS T  39     105.777  40.566 -32.517  1.00 51.14       TS20
ATOM  51034  CA  LYS T  39     104.668  39.733 -32.980  1.00 51.14       TS20
ATOM  51035  CB  LYS T  39     103.992  39.075 -31.774  1.00 79.60       TS20
ATOM  51036  CG  LYS T  39     103.967  37.558 -31.760  1.00 79.60       TS20
ATOM  51037  CD  LYS T  39     102.817  37.009 -32.569  1.00 79.60       TS20
ATOM  51038  CE  LYS T  39     102.475  35.585 -32.136  1.00 79.60       TS20
ATOM  51039  NZ  LYS T  39     101.964  35.512 -30.733  1.00 79.60       TS20
ATOM  51040  C   LYS T  39     103.638  40.581 -33.712  1.00 51.14       TS20
ATOM  51041  O   LYS T  39     103.396  40.403 -34.905  1.00 51.14       TS20
ATOM  51042  N   ALA T  40     103.052  41.518 -32.975  1.00 45.48       TS20
ATOM  51043  CA  ALA T  40     102.026  42.406 -33.500  1.00 45.48       TS20
ATOM  51044  CB  ALA T  40     101.631  43.411 -32.441  1.00 45.81       TS20
ATOM  51045  C   ALA T  40     102.460  43.128 -34.760  1.00 45.48       TS20
ATOM  51046  O   ALA T  40     101.743  43.136 -35.767  1.00 45.48       TS20
ATOM  51047  N   VAL T  41     103.626  43.754 -34.695  1.00 55.33       TS20
ATOM  51048  CA  VAL T  41     104.146  44.468 -35.844  1.00 55.33       TS20
ATOM  51049  CB  VAL T  41     105.527  45.061 -35.551  1.00 37.22       TS20
ATOM  51050  CG1 VAL T  41     106.126  45.579 -36.829  1.00 37.22       TS20
ATOM  51051  CG2 VAL T  41     105.419  46.172 -34.516  1.00 37.22       TS20
ATOM  51052  C   VAL T  41     104.270  43.511 -37.022  1.00 55.33       TS20
ATOM  51053  O   VAL T  41     103.792  43.796 -38.117  1.00 55.33       TS20
ATOM  51054  N   GLN T  42     104.900  42.366 -36.780  1.00 58.93       TS20
ATOM  51055  CA  GLN T  42     105.114  41.357 -37.813  1.00 58.93       TS20
ATOM  51056  CB  GLN T  42     105.899  40.186 -37.228  1.00133.79       TS20
ATOM  51057  CG  GLN T  42     107.071  39.752 -38.084  1.00133.79       TS20
ATOM  51058  CD  GLN T  42     106.683  39.537 -39.532  1.00133.79       TS20
ATOM  51059  OE1 GLN T  42     106.353  40.485 -40.249  1.00133.79       TS20
ATOM  51060  NE2 GLN T  42     106.715  38.285 -39.971  1.00133.79       TS20
ATOM  51061  C   GLN T  42     103.847  40.826 -38.494  1.00 58.93       TS20
ATOM  51062  O   GLN T  42     103.924  40.132 -39.499  1.00 58.93       TS20
ATOM  51063  N   LEU T  43     102.680  41.142 -37.952  1.00 52.69       TS20
ATOM  51064  CA  LEU T  43     101.436  40.678 -38.552  1.00 52.69       TS20
ATOM  51065  CB  LEU T  43     100.421  40.287 -37.474  1.00 62.24       TS20
ATOM  51066  CG  LEU T  43     100.786  39.135 -36.534  1.00 62.24       TS20
ATOM  51067  CD1 LEU T  43      99.582  38.819 -35.669  1.00 62.24       TS20
ATOM  51068  CD2 LEU T  43     101.211  37.908 -37.329  1.00 62.24       TS20
ATOM  51069  C   LEU T  43     100.862  41.779 -39.416  1.00 52.69       TS20
ATOM  51070  O   LEU T  43     100.343  41.525 -40.498  1.00 52.69       TS20
ATOM  51071  N   ALA T  44     100.943  43.008 -38.924  1.00 58.07       TS20
ATOM  51072  CA  ALA T  44     100.446  44.144 -39.685  1.00 58.07       TS20
ATOM  51073  CB  ALA T  44     100.465  45.404 -38.832  1.00 62.31       TS20
ATOM  51074  C   ALA T  44     101.411  44.275 -40.849  1.00 58.07       TS20
ATOM  51075  O   ALA T  44     101.054  44.723 -41.935  1.00 58.07       TS20
ATOM  51076  N   GLN T  45     102.649  43.868 -40.600  1.00 51.45       TS20
ATOM  51077  CA  GLN T  45     103.670  43.916 -41.618  1.00 51.45       TS20
ATOM  51078  CB  GLN T  45     104.965  43.300 -41.089  1.00108.53       TS20
ATOM  51079  CG  GLN T  45     106.212  43.817 -41.775  1.00108.53       TS20
ATOM  51080  CD  GLN T  45     106.133  43.686 -43.276  1.00108.53       TS20
ATOM  51081  OE1 GLN T  45     105.967  42.586 -43.803  1.00108.53       TS20
ATOM  51082  NE2 GLN T  45     106.248  44.807 -43.977  1.00108.53       TS20
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ATOM  51084  O   GLN T  45     102.949  43.585 -43.870  1.00 51.45      TS20
ATOM  51085  N   GLU T  46     102.781  41.830 -42.482  1.00 57.87      TS20
ATOM  51086  CA  GLU T  46     102.223  40.921 -43.482  1.00 57.87      TS20
ATOM  51087  CB  GLU T  46     102.385  39.470 -43.022  1.00 88.75      TS20
ATOM  51088  CG  GLU T  46     103.831  38.988 -43.002  1.00 88.75      TS20
ATOM  51089  CD  GLU T  46     103.973  37.574 -42.460  1.00 88.75      TS20
ATOM  51090  OE1 GLU T  46     105.069  36.981 -42.593  1.00 88.75      TS20
ATOM  51091  OE2 GLU T  46     102.985  37.059 -41.894  1.00 88.75      TS20
ATOM  51092  C   GLU T  46     100.751  41.238 -43.712  1.00 57.87      TS20
ATOM  51093  O   GLU T  46     100.033  40.510 -44.396  1.00 57.87      TS20
ATOM  51094  N   GLY T  47     100.298  42.330 -43.116  1.00 60.48      TS20
ATOM  51095  CA  GLY T  47      98.922  42.742 -43.300  1.00 60.48      TS20
ATOM  51096  C   GLY T  47      97.802  41.818 -42.863  1.00 60.48      TS20
ATOM  51097  O   GLY T  47      96.727  41.842 -43.463  1.00 60.48      TS20
ATOM  51098  N   LYS T  48      98.030  41.009 -41.833  1.00 69.58      TS20
ATOM  51099  CA  LYS T  48      96.982  40.124 -41.337  1.00 69.58      TS20
ATOM  51100  CB  LYS T  48      97.569  38.792 -40.876  1.00 63.22      TS20
ATOM  51101  CG  LYS T  48      98.220  37.981 -41.981  1.00 63.22      TS20
ATOM  51102  CD  LYS T  48      98.640  36.612 -41.456  1.00 63.22      TS20
ATOM  51103  CE  LYS T  48      99.259  35.721 -42.534  1.00 63.22      TS20
ATOM  51104  NZ  LYS T  48     100.553  36.242 -43.080  1.00 63.22      TS20
ATOM  51105  C   LYS T  48      96.324  40.830 -40.166  1.00 69.58      TS20
ATOM  51106  O   LYS T  48      96.418  40.374 -39.031  1.00 69.58      TS20
ATOM  51107  N   ALA T  49      95.662  41.948 -40.459  1.00 68.67      TS20
ATOM  51108  CA  ALA T  49      94.992  42.778 -39.450  1.00 68.67      TS20
ATOM  51109  CB  ALA T  49      94.024  43.739 -40.134  1.00 84.70      TS20
ATOM  51110  C   ALA T  49      94.262  42.024 -38.339  1.00 68.67      TS20
ATOM  51111  O   ALA T  49      94.403  42.354 -37.158  1.00 68.67      TS20
ATOM  51112  N   GLU T  50      93.469  41.028 -38.727  1.00 76.72      TS20
ATOM  51113  CA  GLU T  50      92.713  40.220 -37.780  1.00 76.72      TS20
ATOM  51114  CB  GLU T  50      92.422  38.846 -38.383  1.00183.67      TS20
ATOM  51115  CG  GLU T  50      91.080  38.735 -39.077  1.00183.67      TS20
ATOM  51116  CD  GLU T  50      89.922  38.740 -38.098  1.00183.67      TS20
ATOM  51117  OE1 GLU T  50      89.892  37.866 -37.205  1.00183.67      TS20
ATOM  51118  OE2 GLU T  50      89.040  39.616 -38.221  1.00183.67      TS20
ATOM  51119  C   GLU T  50      93.458  40.040 -36.472  1.00 76.72      TS20
ATOM  51120  O   GLU T  50      93.214  40.756 -35.501  1.00 76.72      TS20
ATOM  51121  N   GLU T  51      94.385  39.088 -36.462  1.00 69.37      TS20
ATOM  51122  CA  GLU T  51      95.153  38.794 -35.263  1.00 69.37      TS20
ATOM  51123  CB  GLU T  51      95.751  37.382 -35.350  1.00138.20      TS20
ATOM  51124  CG  GLU T  51      96.718  37.152 -36.497  1.00138.20      TS20
ATOM  51125  CD  GLU T  51      97.165  35.698 -36.598  1.00138.20      TS20
ATOM  51126  OE1 GLU T  51      97.537  35.113 -35.558  1.00138.20      TS20
ATOM  51127  OE2 GLU T  51      97.154  35.142 -37.719  1.00138.20      TS20
ATOM  51128  C   GLU T  51      96.238  39.819 -34.966  1.00 69.37      TS20
ATOM  51129  O   GLU T  51      96.752  39.874 -33.850  1.00 69.37      TS20
ATOM  51130  N   ALA T  52      96.580  40.636 -35.956  1.00 51.46      TS20
ATOM  51131  CA  ALA T  52      97.599  41.662 -35.765  1.00 51.46      TS20
ATOM  51132  CB  ALA T  52      97.793  42.450 -37.049  1.00139.48      TS20
ATOM  51133  C   ALA T  52      97.107  42.576 -34.650  1.00 51.46      TS20
ATOM  51134  O   ALA T  52      97.837  42.896 -33.698  1.00 51.46      TS20
ATOM  51135  N   LEU T  53      95.857  43.000 -34.778  1.00 43.97      TS20
ATOM  51136  CA  LEU T  53      95.267  43.841 -33.767  1.00 43.97      TS20
ATOM  51137  CB  LEU T  53      93.912  44.362 -34.245  1.00 52.46      TS20
ATOM  51138  CG  LEU T  53      94.061  45.522 -35.244  1.00 52.46      TS20
ATOM  51139  CD1 LEU T  53      92.761  45.800 -35.971  1.00 52.46      TS20
ATOM  51140  CD2 LEU T  53      94.516  46.768 -34.492  1.00 52.46      TS20
ATOM  51141  C   LEU T  53      95.128  42.978 -32.516  1.00 43.97      TS20
ATOM  51142  O   LEU T  53      95.602  43.357 -31.437  1.00 43.97      TS20
ATOM  51143  N   LYS T  54      94.519  41.799 -32.679  1.00 63.27      TS20
ATOM  51144  CA  LYS T  54      94.308  40.864 -31.570  1.00 63.27      TS20
ATOM  51145  CB  LYS T  54      94.005  39.462 -32.099  1.00182.11      TS20
ATOM  51146  CG  LYS T  54      92.585  39.295 -32.620  1.00182.11      TS20
ATOM  51147  CD  LYS T  54      92.354  37.890 -33.165  1.00182.11      TS20
ATOM  51148  CE  LYS T  54      90.906  37.685 -33.596  1.00182.11      TS20
ATOM  51149  NZ  LYS T  54      90.706  36.403 -34.330  1.00182.11      TS20
ATOM  51150  C   LYS T  54      95.488  40.807 -30.612  1.00 63.27      TS20
ATOM  51151  O   LYS T  54      95.305  40.758 -29.394  1.00 63.27      TS20
ATOM  51152  N   ILE T  55      96.697  40.826 -31.160  1.00 31.77      TS20
ATOM  51153  CA  ILE T  55      97.898  40.783 -30.333  1.00 31.77      TS20
ATOM  51154  CB  ILE T  55      99.034  40.101 -31.076  1.00 30.67      TS20
ATOM  51155  CG2 ILE T  55     100.336  40.230 -30.295  1.00 30.67      TS20
ATOM  51156  CG1 ILE T  55      98.680  38.637 -31.257  1.00 30.67      TS20
ATOM  51157  CD1 ILE T  55      99.806  37.836 -31.837  1.00 30.67      TS20
ATOM  51158  C   ILE T  55      98.366  42.150 -29.824  1.00 31.77      TS20
ATOM  51159  O   ILE T  55      98.869  42.262 -28.698  1.00 31.77      TS20
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ATOM  51160  N   MET T  56      98.222  43.183 -30.652  1.00 35.01      TS20
ATOM  51161  CA  MET T  56      98.598  44.525 -30.225  1.00 35.01      TS20
ATOM  51162  CB  MET T  56      98.145  45.550 -31.258  1.00 65.54      TS20
ATOM  51163  CG  MET T  56      98.402  46.978 -30.846  1.00 65.54      TS20
ATOM  51164  SD  MET T  56      97.120  48.066 -31.452  1.00 65.54      TS20
ATOM  51165  CE  MET T  56      97.866  48.660 -32.904  1.00 65.54      TS20
ATOM  51166  C   MET T  56      97.839  44.751 -28.917  1.00 35.01      TS20
ATOM  51167  O   MET T  56      98.392  45.248 -27.920  1.00 35.01      TS20
ATOM  51168  N   ARG T  57      96.562  44.356 -28.949  1.00 37.76      TS20
ATOM  51169  CA  ARG T  57      95.659  44.460 -27.810  1.00 37.76      TS20
ATOM  51170  CB  ARG T  57      94.314  43.821 -28.162  1.00 85.67      TS20
ATOM  51171  CG  ARG T  57      93.586  44.538 -29.297  1.00 85.67      TS20
ATOM  51172  CD  ARG T  57      92.580  43.647 -30.040  1.00 85.67      TS20
ATOM  51173  NE  ARG T  57      91.251  43.650 -29.441  1.00 85.67      TS20
ATOM  51174  CZ  ARG T  57      90.953  43.132 -28.252  1.00 85.67      TS20
ATOM  51175  NH1 ARG T  57      91.889  42.555 -27.513  1.00 85.67      TS20
ATOM  51176  NH2 ARG T  57      89.708  43.195 -27.795  1.00 85.67      TS20
ATOM  51177  C   ARG T  57      96.270  43.805 -26.570  1.00 37.76      TS20
ATOM  51178  O   ARG T  57      96.167  44.345 -25.471  1.00 37.76      TS20
ATOM  51179  N   LYS T  58      96.911  42.649 -26.735  1.00 34.10      TS20
ATOM  51180  CA  LYS T  58      97.543  41.989 -25.592  1.00 34.10      TS20
ATOM  51181  CB  LYS T  58      98.058  40.601 -25.971  1.00131.96      TS20
ATOM  51182  CG  LYS T  58      96.972  39.601 -26.315  1.00131.96      TS20
ATOM  51183  CD  LYS T  58      97.551  38.201 -26.493  1.00131.96      TS20
ATOM  51184  CE  LYS T  58      96.467  37.166 -26.778  1.00131.96      TS20
ATOM  51185  NZ  LYS T  58      97.017  35.778 -26.789  1.00131.96      TS20
ATOM  51186  C   LYS T  58      98.710  42.852 -25.126  1.00 34.10      TS20
ATOM  51187  O   LYS T  58      98.768  43.276 -23.971  1.00 34.10      TS20
ATOM  51188  N   ALA T  59      99.637  43.121 -26.037  1.00 25.70      TS20
ATOM  51189  CA  ALA T  59     100.795  43.937 -25.718  1.00 25.70      TS20
ATOM  51190  CB  ALA T  59     101.518  44.322 -26.979  1.00 53.21      TS20
ATOM  51191  C   ALA T  59     100.363  45.180 -24.961  1.00 25.70      TS20
ATOM  51192  O   ALA T  59     100.951  45.516 -23.935  1.00 25.70      TS20
ATOM  51193  N   GLU T  60      99.331  45.861 -25.456  1.00 37.08      TS20
ATOM  51194  CA  GLU T  60      98.847  47.066 -24.782  1.00 37.08      TS20
ATOM  51195  CB  GLU T  60      97.495  47.490 -25.359  1.00 49.34      TS20
ATOM  51196  CG  GLU T  60      97.005  48.844 -24.850  1.00 49.34      TS20
ATOM  51197  CD  GLU T  60      95.835  49.379 -25.665  1.00 49.34      TS20
ATOM  51198  OE1 GLU T  60      95.412  50.537 -25.438  1.00 49.34      TS20
ATOM  51199  OE2 GLU T  60      95.338  48.634 -26.535  1.00 49.34      TS20
ATOM  51200  C   GLU T  60      98.713  46.780 -23.287  1.00 37.08      TS20
ATOM  51201  O   GLU T  60      99.433  47.347 -22.466  1.00 37.08      TS20
ATOM  51202  N   SER T  61      97.789  45.883 -22.960  1.00 58.03      TS20
ATOM  51203  CA  SER T  61      97.532  45.458 -21.592  1.00 58.03      TS20
ATOM  51204  CB  SER T  61      96.601  44.244 -21.613  1.00 89.13      TS20
ATOM  51205  OG  SER T  61      96.701  43.487 -20.420  1.00 89.13      TS20
ATOM  51206  C   SER T  61      98.829  45.098 -20.858  1.00 58.03      TS20
ATOM  51207  O   SER T  61      99.123  45.620 -19.779  1.00 58.03      TS20
ATOM  51208  N   LEU T  62      99.595  44.187 -21.442  1.00 43.39      TS20
ATOM  51209  CA  LEU T  62     100.839  43.780 -20.838  1.00 43.39      TS20
ATOM  51210  CB  LEU T  62     101.587  42.860 -21.784  1.00 31.04      TS20
ATOM  51211  CG  LEU T  62     101.516  41.384 -21.406  1.00 31.04      TS20
ATOM  51212  CD1 LEU T  62     102.456  40.581 -22.296  1.00 31.04      TS20
ATOM  51213  CD2 LEU T  62     101.939  41.219 -19.956  1.00 31.04      TS20
ATOM  51214  C   LEU T  62     101.698  44.987 -20.489  1.00 43.39      TS20
ATOM  51215  O   LEU T  62     102.353  45.010 -19.445  1.00 43.39      TS20
ATOM  51216  N   ILE T  63     101.696  45.991 -21.362  1.00 29.01      TS20
ATOM  51217  CA  ILE T  63     102.469  47.211 -21.122  1.00 29.01      TS20
ATOM  51218  CB  ILE T  63     102.483  48.130 -22.362  1.00 39.24      TS20
ATOM  51219  CG2 ILE T  63     103.199  49.442 -22.037  1.00 39.24      TS20
ATOM  51220  CG1 ILE T  63     103.187  47.421 -23.522  1.00 39.24      TS20
ATOM  51221  CD1 ILE T  63     103.227  48.228 -24.794  1.00 39.24      TS20
ATOM  51222  C   ILE T  63     101.876  47.984 -19.948  1.00 29.01      TS20
ATOM  51223  O   ILE T  63     102.512  48.133 -18.895  1.00 29.01      TS20
ATOM  51224  N   ASP T  64     100.653  48.469 -20.123  1.00 29.11      TS20
ATOM  51225  CA  ASP T  64     100.008  49.201 -19.048  1.00 29.11      TS20
ATOM  51226  CB  ASP T  64      98.524  49.410 -19.346  1.00105.07      TS20
ATOM  51227  CG  ASP T  64      98.253  50.714 -20.066  1.00105.07      TS20
ATOM  51228  OD1 ASP T  64      98.579  51.786 -19.508  1.00105.07      TS20
ATOM  51229  OD2 ASP T  64      97.712  50.663 -21.188  1.00105.07      TS20
ATOM  51230  C   ASP T  64     100.168  48.471 -17.716  1.00 29.11      TS20
ATOM  51231  O   ASP T  64     100.334  49.097 -16.674  1.00 29.11      TS20
ATOM  51232  N   LYS T  65     100.134  47.144 -17.757  1.00 31.35      TS20
ATOM  51233  CA  LYS T  65     100.258  46.354 -16.543  1.00 31.35      TS20
ATOM  51234  CB  LYS T  65     100.002  44.877 -16.838  1.00 66.69      TS20
ATOM  51235  CG  LYS T  65      98.536  44.492 -16.918  1.00 66.69      TS20
ATOM  51236  CD  LYS T  65      98.352  42.984 -16.881  1.00 66.69      TS20
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ATOM  51237  CE  LYS T  65      96.884  42.639 -16.841  1.00 66.69      TS20
ATOM  51238  NZ  LYS T  65      96.644  41.179 -16.840  1.00 66.69      TS20
ATOM  51239  C   LYS T  65     101.623  46.499 -15.921  1.00 31.35      TS20
ATOM  51240  O   LYS T  65     101.760  46.600 -14.703  1.00 31.35      TS20
ATOM  51241  N   ALA T  66     102.646  46.493 -16.755  1.00 33.02      TS20
ATOM  51242  CA  ALA T  66     103.985  46.602 -16.217  1.00 33.02      TS20
ATOM  51243  CB  ALA T  66     105.026  46.432 -17.323  1.00 32.67      TS20
ATOM  51244  C   ALA T  66     104.134  47.950 -15.555  1.00 33.02      TS20
ATOM  51245  O   ALA T  66     104.879  48.085 -14.596  1.00 33.02      TS20
ATOM  51246  N   ALA T  67     103.412  48.945 -16.062  1.00 46.12      TS20
ATOM  51247  CA  ALA T  67     103.500  50.299 -15.516  1.00 46.12      TS20
ATOM  51248  CB  ALA T  67     102.873  51.295 -16.479  1.00 62.32      TS20
ATOM  51249  C   ALA T  67     102.823  50.396 -14.164  1.00 46.12      TS20
ATOM  51250  O   ALA T  67     102.981  51.392 -13.451  1.00 46.12      TS20
ATOM  51251  N   LYS T  68     102.064  49.353 -13.830  1.00 43.76      TS20
ATOM  51252  CA  LYS T  68     101.345  49.279 -12.564  1.00 43.76      TS20
ATOM  51253  CB  LYS T  68     100.476  48.016 -12.516  1.00164.86      TS20
ATOM  51254  CG  LYS T  68      99.227  48.176 -11.666  1.00164.86      TS20
ATOM  51255  CD  LYS T  68      98.388  49.342 -12.183  1.00164.86      TS20
ATOM  51256  CE  LYS T  68      97.301  49.751 -11.201  1.00164.86      TS20
ATOM  51257  NZ  LYS T  68      96.502  50.910 -11.702  1.00164.86      TS20
ATOM  51258  C   LYS T  68     102.392  49.243 -11.474  1.00 43.76      TS20
ATOM  51259  O   LYS T  68     102.344  50.001 -10.517  1.00 43.76      TS20
ATOM  51260  N   GLY T  69     103.352  48.351 -11.630  1.00 75.15      TS20
ATOM  51261  CA  GLY T  69     104.417  48.278 -10.659  1.00 75.15      TS20
ATOM  51262  C   GLY T  69     105.503  49.214 -11.135  1.00 75.15      TS20
ATOM  51263  O   GLY T  69     105.280  50.040 -12.022  1.00 75.15      TS20
ATOM  51264  N   SER T  70     106.690  49.076 -10.568  1.00 33.54      TS20
ATOM  51265  CA  SER T  70     107.792  49.930 -10.950  1.00 33.54      TS20
ATOM  51266  CB  SER T  70     108.644  50.249  -9.723  1.00 40.31      TS20
ATOM  51267  OG  SER T  70     109.359  49.101  -9.300  1.00 40.31      TS20
ATOM  51268  C   SER T  70     108.652  49.273 -12.023  1.00 33.54      TS20
ATOM  51269  O   SER T  70     109.869  49.255 -11.924  1.00 33.54      TS20
ATOM  51270  N   THR T  71     108.024  48.732 -13.054  1.00 41.86      TS20
ATOM  51271  CA  THR T  71     108.781  48.089 -14.115  1.00 41.86      TS20
ATOM  51272  CB  THR T  71     108.082  46.826 -14.627  1.00 56.46      TS20
ATOM  51273  OG1 THR T  71     107.993  45.862 -13.570  1.00 56.46      TS20
ATOM  51274  CG2 THR T  71     108.853  46.236 -15.785  1.00 56.46      TS20
ATOM  51275  C   THR T  71     108.929  49.047 -15.270  1.00 41.86      TS20
ATOM  51276  O   THR T  71     109.936  49.019 -15.962  1.00 41.86      TS20
ATOM  51277  N   LEU T  72     107.915  49.884 -15.476  1.00 44.91      TS20
ATOM  51278  CA  LEU T  72     107.907  50.873 -16.549  1.00 44.91      TS20
ATOM  51279  CB  LEU T  72     107.008  50.436 -17.693  1.00 23.81      TS20
ATOM  51280  CG  LEU T  72     107.510  49.411 -18.696  1.00 23.81      TS20
ATOM  51281  CD1 LEU T  72     106.685  49.558 -19.968  1.00 23.81      TS20
ATOM  51282  CD2 LEU T  72     108.985  49.634 -19.010  1.00 23.81      TS20
ATOM  51283  C   LEU T  72     107.365  52.193 -16.052  1.00 44.91      TS20
ATOM  51284  O   LEU T  72     107.932  53.274 -16.285  1.00 44.91      TS20
ATOM  51285  N   HIS T  73     106.226  52.098 -15.381  1.00103.93      TS20
ATOM  51286  CA  HIS T  73     105.580  53.285 -14.865  1.00103.93      TS20
ATOM  51287  CB  HIS T  73     106.210  53.714 -13.539  1.00113.12      TS20
ATOM  51288  CG  HIS T  73     105.550  53.130 -12.337  1.00113.12      TS20
ATOM  51289  CD2 HIS T  73     106.068  52.598 -11.207  1.00113.12      TS20
ATOM  51290  ND1 HIS T  73     104.181  53.099 -12.186  1.00113.12      TS20
ATOM  51291  CE1 HIS T  73     103.884  52.572 -11.013  1.00113.12      TS20
ATOM  51292  NE2 HIS T  73     105.011  52.259 -10.399  1.00113.12      TS20
ATOM  51293  C   HIS T  73     105.736  54.427 -15.852  1.00103.93      TS20
ATOM  51294  O   HIS T  73     105.908  54.244 -17.061  1.00103.93      TS20
ATOM  51295  N   LYS T  74     105.680  55.619 -15.293  1.00 90.41      TS20
ATOM  51296  CA  LYS T  74     105.834  56.808 -16.073  1.00 90.41      TS20
ATOM  51297  CB  LYS T  74     107.325  57.091 -16.287  1.00 66.05      TS20
ATOM  51298  CG  LYS T  74     108.081  57.311 -15.032  1.00 66.05      TS20
ATOM  51299  CD  LYS T  74     107.598  58.554 -14.376  1.00 66.05      TS20
ATOM  51300  CE  LYS T  74     107.721  58.412 -12.869  1.00 66.05      TS20
ATOM  51301  NZ  LYS T  74     109.092  58.010 -12.378  1.00 66.05      TS20
ATOM  51302  C   LYS T  74     105.144  56.751 -17.423  1.00 90.41      TS20
ATOM  51303  O   LYS T  74     104.167  56.029 -17.662  1.00 90.41      TS20
ATOM  51304  N   ASN T  75     105.743  57.542 -18.293  1.00 38.41      TS20
ATOM  51305  CA  ASN T  75     105.339  57.768 -19.642  1.00 38.41      TS20
ATOM  51306  CB  ASN T  75     105.671  59.233 -19.923  1.00 42.12      TS20
ATOM  51307  CG  ASN T  75     105.695  60.078 -18.620  1.00 42.12      TS20
ATOM  51308  OD1 ASN T  75     104.817  59.943 -17.774  1.00 42.12      TS20
ATOM  51309  ND2 ASN T  75     106.703  60.937 -18.470  1.00 42.12      TS20
ATOM  51310  C   ASN T  75     106.092  56.797 -20.544  1.00 38.41      TS20
ATOM  51311  O   ASN T  75     105.972  56.829 -21.767  1.00 38.41      TS20
ATOM  51312  N   ALA T  76     106.886  55.932 -19.930  1.00 31.96      TS20
ATOM  51313  CA  ALA T  76     107.618  54.938 -20.700  1.00 31.96      TS20
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ATOM  51314  CB  ALA T  76     108.611  54.211 -19.809  1.00 49.35      TS20
ATOM  51315  C   ALA T  76     106.585  53.956 -21.264  1.00 31.96      TS20
ATOM  51316  O   ALA T  76     106.627  53.591 -22.438  1.00 31.96      TS20
ATOM  51317  N   ALA T  77     105.651  53.537 -20.419  1.00 36.85      TS20
ATOM  51318  CA  ALA T  77     104.609  52.629 -20.855  1.00 36.85      TS20
ATOM  51319  CB  ALA T  77     103.635  52.376 -19.732  1.00 73.09      TS20
ATOM  51320  C   ALA T  77     103.897  53.304 -22.013  1.00 36.85      TS20
ATOM  51321  O   ALA T  77     103.677  52.702 -23.077  1.00 36.85      TS20
ATOM  51322  N   ALA T  78     103.553  54.573 -21.802  1.00 48.93      TS20
ATOM  51323  CA  ALA T  78     102.854  55.359 -22.814  1.00 48.93      TS20
ATOM  51324  CB  ALA T  78     102.579  56.757 -22.277  1.00 42.50      TS20
ATOM  51325  C   ALA T  78     103.610  55.433 -24.148  1.00 48.93      TS20
ATOM  51326  O   ALA T  78     103.003  55.266 -25.208  1.00 48.93      TS20
ATOM  51327  N   ARG T  79     104.922  55.680 -24.101  1.00 30.51      TS20
ATOM  51328  CA  ARG T  79     105.706  55.750 -25.328  1.00 30.51      TS20
ATOM  51329  CB  ARG T  79     107.207  55.729 -25.050  1.00 65.14      TS20
ATOM  51330  CG  ARG T  79     107.771  56.949 -24.372  1.00 65.14      TS20
ATOM  51331  CD  ARG T  79     109.243  57.122 -24.747  1.00 65.14      TS20
ATOM  51332  NE  ARG T  79     110.078  55.986 -24.359  1.00 65.14      TS20
ATOM  51333  CZ  ARG T  79     110.422  55.701 -23.106  1.00 65.14      TS20
ATOM  51334  NH1 ARG T  79     110.000  56.469 -22.111  1.00 65.14      TS20
ATOM  51335  NH2 ARG T  79     111.200  54.655 -22.846  1.00 65.14      TS20
ATOM  51336  C   ARG T  79     105.379  54.514 -26.132  1.00 30.51      TS20
ATOM  51337  O   ARG T  79     104.832  54.583 -27.245  1.00 30.51      TS20
ATOM  51338  N   ARG T  80     105.716  53.379 -25.522  1.00 56.17      TS20
ATOM  51339  CA  ARG T  80     105.525  52.059 -26.102  1.00 56.17      TS20
ATOM  51340  CB  ARG T  80     105.722  51.008 -25.018  1.00 63.09      TS20
ATOM  51341  CG  ARG T  80     106.807  51.414 -24.072  1.00 63.09      TS20
ATOM  51342  CD  ARG T  80     107.675  50.273 -23.638  1.00 63.09      TS20
ATOM  51343  NE  ARG T  80     108.837  50.803 -22.937  1.00 63.09      TS20
ATOM  51344  CZ  ARG T  80     109.871  50.077 -22.531  1.00 63.09      TS20
ATOM  51345  NH1 ARG T  80     109.895  48.764 -22.752  1.00 63.09      TS20
ATOM  51346  NH2 ARG T  80     110.889  50.672 -21.918  1.00 63.09      TS20
ATOM  51347  C   ARG T  80     104.174  51.885 -26.772  1.00 56.17      TS20
ATOM  51348  O   ARG T  80     104.106  51.675 -27.985  1.00 56.17      TS20
ATOM  51349  N   LYS T  81     103.104  51.967 -25.990  1.00 40.91      TS20
ATOM  51350  CA  LYS T  81     101.780  51.815 -26.557  1.00 40.91      TS20
ATOM  51351  CB  LYS T  81     100.710  52.254 -25.561  1.00 37.33      TS20
ATOM  51352  CG  LYS T  81     100.684  51.393 -24.304  1.00 37.33      TS20
ATOM  51353  CD  LYS T  81      99.920  52.047 -23.169  1.00 37.33      TS20
ATOM  51354  CE  LYS T  81      98.483  52.250 -23.546  1.00 37.33      TS20
ATOM  51355  NZ  LYS T  81      97.702  52.778 -22.409  1.00 37.33      TS20
ATOM  51356  C   LYS T  81     101.753  52.695 -27.780  1.00 40.91      TS20
ATOM  51357  O   LYS T  81     101.446  52.231 -28.882  1.00 40.91      TS20
ATOM  51358  N   SER T  82     102.116  53.962 -27.597  1.00 27.77      TS20
ATOM  51359  CA  SER T  82     102.129  54.895 -28.717  1.00 27.77      TS20
ATOM  51360  CB  SER T  82     102.730  56.222 -28.300  1.00 39.67      TS20
ATOM  51361  OG  SER T  82     102.567  57.162 -29.339  1.00 39.67      TS20
ATOM  51362  C   SER T  82     102.912  54.342 -29.907  1.00 27.77      TS20
ATOM  51363  O   SER T  82     102.335  54.015 -30.938  1.00 27.77      TS20
ATOM  51364  N   ARG T  83     104.224  54.217 -29.766  1.00 38.65      TS20
ATOM  51365  CA  ARG T  83     105.024  53.701 -30.866  1.00 38.65      TS20
ATOM  51366  CB  ARG T  83     106.452  53.458 -30.396  1.00 86.85      TS20
ATOM  51367  CG  ARG T  83     107.164  54.743 -30.055  1.00 86.85      TS20
ATOM  51368  CD  ARG T  83     108.605  54.506 -29.676  1.00 86.85      TS20
ATOM  51369  NE  ARG T  83     109.317  55.756 -29.426  1.00 86.85      TS20
ATOM  51370  CZ  ARG T  83     110.571  55.813 -28.993  1.00 86.85      TS20
ATOM  51371  NH1 ARG T  83     111.236  54.688 -28.765  1.00 86.85      TS20
ATOM  51372  NH2 ARG T  83     111.160  56.984 -28.787  1.00 86.85      TS20
ATOM  51373  C   ARG T  83     104.446  52.432 -31.506  1.00 38.65      TS20
ATOM  51374  O   ARG T  83     104.630  52.200 -32.704  1.00 38.65      TS20
ATOM  51375  N   LEU T  84     103.731  51.625 -30.718  1.00 50.61      TS20
ATOM  51376  CA  LEU T  84     103.147  50.373 -31.210  1.00 50.61      TS20
ATOM  51377  CB  LEU T  84     102.792  49.455 -30.037  1.00 36.83      TS20
ATOM  51378  CG  LEU T  84     102.896  47.928 -30.199  1.00 36.83      TS20
ATOM  51379  CD1 LEU T  84     101.927  47.284 -29.237  1.00 36.83      TS20
ATOM  51380  CD2 LEU T  84     102.572  47.480 -31.609  1.00 36.83      TS20
ATOM  51381  C   LEU T  84     101.893  50.619 -32.036  1.00 50.61      TS20
ATOM  51382  O   LEU T  84     101.832  50.266 -33.218  1.00 50.61      TS20
ATOM  51383  N   MET T  85     100.885  51.213 -31.405  1.00 71.52      TS20
ATOM  51384  CA  MET T  85      99.641  51.495 -32.099  1.00 71.52      TS20
ATOM  51385  CB  MET T  85      98.709  52.316 -31.205  1.00 43.73      TS20
ATOM  51386  CG  MET T  85      98.332  51.582 -29.916  1.00 43.73      TS20
ATOM  51387  SD  MET T  85      96.884  52.202 -29.032  1.00 43.73      TS20
ATOM  51388  CE  MET T  85      95.620  51.540 -30.058  1.00 43.73      TS20
ATOM  51389  C   MET T  85     100.004  52.250 -33.365  1.00 71.52      TS20
ATOM  51390  O   MET T  85      99.278  52.225 -34.359  1.00 71.52      TS20
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ATOM  51391  N   ARG T  86     101.160  52.903 -33.312  1.00 50.78      TS20
ATOM  51392  CA  ARG T  86     101.695  53.657 -34.429  1.00 50.78      TS20
ATOM  51393  CB  ARG T  86     102.982  54.357 -33.988  1.00119.29      TS20
ATOM  51394  CG  ARG T  86     103.363  55.578 -34.789  1.00119.29      TS20
ATOM  51395  CD  ARG T  86     102.487  56.760 -34.443  1.00119.29      TS20
ATOM  51396  NE  ARG T  86     102.785  57.903 -35.299  1.00119.29      TS20
ATOM  51397  CZ  ARG T  86     102.121  59.056 -35.277  1.00119.29      TS20
ATOM  51398  NH1 ARG T  86     101.108  59.232 -34.435  1.00119.29      TS20
ATOM  51399  NH2 ARG T  86     102.468  60.034 -36.103  1.00119.29      TS20
ATOM  51400  C   ARG T  86     101.991  52.620 -35.520  1.00 50.78      TS20
ATOM  51401  O   ARG T  86     101.123  52.307 -36.344  1.00 50.78      TS20
ATOM  51402  N   LYS T  87     103.201  52.056 -35.489  1.00 46.92      TS20
ATOM  51403  CA  LYS T  87     103.641  51.066 -36.477  1.00 46.92      TS20
ATOM  51404  CB  LYS T  87     104.799  50.231 -35.942  1.00 83.51      TS20
ATOM  51405  CG  LYS T  87     106.027  51.013 -35.552  1.00 83.51      TS20
ATOM  51406  CD  LYS T  87     107.119  50.064 -35.065  1.00 83.51      TS20
ATOM  51407  CE  LYS T  87     108.294  50.811 -34.444  1.00 83.51      TS20
ATOM  51408  NZ  LYS T  87     107.910  51.538 -33.199  1.00 83.51      TS20
ATOM  51409  C   LYS T  87     102.561  50.109 -36.941  1.00 46.92      TS20
ATOM  51410  O   LYS T  87     102.512  49.750 -38.115  1.00 46.92      TS20
ATOM  51411  N   VAL T  88     101.685  49.686 -36.041  1.00 50.38      TS20
ATOM  51412  CA  VAL T  88     100.676  48.735 -36.468  1.00 50.38      TS20
ATOM  51413  CB  VAL T  88      99.932  48.106 -35.274  1.00 45.63      TS20
ATOM  51414  CG1 VAL T  88      98.725  47.314 -35.777  1.00 45.63      TS20
ATOM  51415  CG2 VAL T  88     100.871  47.166 -34.517  1.00 45.63      TS20
ATOM  51416  C   VAL T  88      99.683  49.316 -37.451  1.00 50.38      TS20
ATOM  51417  O   VAL T  88      99.497  48.762 -38.533  1.00 50.38      TS20
ATOM  51418  N   ARG T  89      99.051  50.428 -37.097  1.00 46.46      TS20
ATOM  51419  CA  ARG T  89      98.085  51.025 -38.010  1.00 46.46      TS20
ATOM  51420  CB  ARG T  89      97.499  52.307 -37.428  1.00 58.65      TS20
ATOM  51421  CG  ARG T  89      96.315  52.838 -38.225  1.00 58.65      TS20
ATOM  51422  CD  ARG T  89      95.958  54.248 -37.794  1.00 58.65      TS20
ATOM  51423  NE  ARG T  89      95.138  54.327 -36.587  1.00 58.65      TS20
ATOM  51424  CZ  ARG T  89      93.812  54.323 -36.595  1.00 58.65      TS20
ATOM  51425  NH1 ARG T  89      93.163  54.234 -37.748  1.00 58.65      TS20
ATOM  51426  NH2 ARG T  89      93.139  54.438 -35.461  1.00 58.65      TS20
ATOM  51427  C   ARG T  89      98.786  51.343 -39.320  1.00 46.46      TS20
ATOM  51428  O   ARG T  89      98.291  51.022 -40.401  1.00 46.46      TS20
ATOM  51429  N   GLN T  90      99.950  51.976 -39.214  1.00 56.68      TS20
ATOM  51430  CA  GLN T  90     100.724  52.324 -40.392  1.00 56.68      TS20
ATOM  51431  CB  GLN T  90     102.060  52.949 -39.991  1.00133.58      TS20
ATOM  51432  CG  GLN T  90     101.942  54.387 -39.514  1.00133.58      TS20
ATOM  51433  CD  GLN T  90     103.274  54.976 -39.096  1.00133.58      TS20
ATOM  51434  OE1 GLN T  90     104.260  54.906 -39.832  1.00133.58      TS20
ATOM  51435  NE2 GLN T  90     103.309  55.570 -37.910  1.00133.58      TS20
ATOM  51436  C   GLN T  90     100.954  51.087 -41.240  1.00 56.68      TS20
ATOM  51437  O   GLN T  90     100.530  51.036 -42.380  1.00 56.68      TS20
ATOM  51438  N   LEU T  91     101.612  50.078 -40.688  1.00 57.12      TS20
ATOM  51439  CA  LEU T  91     101.854  48.869 -41.461  1.00 57.12      TS20
ATOM  51440  CB  LEU T  91     102.622  47.846 -40.632  1.00 48.89      TS20
ATOM  51441  CG  LEU T  91     104.122  48.094 -40.561  1.00 48.89      TS20
ATOM  51442  CD1 LEU T  91     104.754  47.139 -39.589  1.00 48.89      TS20
ATOM  51443  CD2 LEU T  91     104.720  47.911 -41.934  1.00 48.89      TS20
ATOM  51444  C   LEU T  91     100.561  48.251 -41.975  1.00 57.12      TS20
ATOM  51445  O   LEU T  91     100.543  47.632 -43.038  1.00 57.12      TS20
ATOM  51446  N   LEU T  92      99.477  48.403 -41.227  1.00 50.71      TS20
ATOM  51447  CA  LEU T  92      98.227  47.850 -41.693  1.00 50.71      TS20
ATOM  51448  CB  LEU T  92      97.142  47.914 -40.625  1.00 56.35      TS20
ATOM  51449  CG  LEU T  92      97.018  46.715 -39.686  1.00 56.35      TS20
ATOM  51450  CD1 LEU T  92      95.772  46.891 -38.833  1.00 56.35      TS20
ATOM  51451  CD2 LEU T  92      96.930  45.427 -40.489  1.00 56.35      TS20
ATOM  51452  C   LEU T  92      97.793  48.643 -42.900  1.00 50.71      TS20
ATOM  51453  O   LEU T  92      96.824  48.278 -43.553  1.00 50.71      TS20
ATOM  51454  N   GLU T  93      98.494  49.743 -43.183  1.00 64.63      TS20
ATOM  51455  CA  GLU T  93      98.188  50.568 -44.356  1.00 64.63      TS20
ATOM  51456  CB  GLU T  93      98.694  52.001 -44.178  1.00157.33      TS20
ATOM  51457  CG  GLU T  93      98.104  52.739 -42.984  1.00157.33      TS20
ATOM  51458  CD  GLU T  93      96.593  52.860 -43.046  1.00157.33      TS20
ATOM  51459  OE1 GLU T  93      96.020  53.564 -42.187  1.00157.33      TS20
ATOM  51460  OE2 GLU T  93      95.977  52.252 -43.947  1.00157.33      TS20
ATOM  51461  C   GLU T  93      98.891  49.908 -45.539  1.00 64.63      TS20
ATOM  51462  O   GLU T  93      99.834  50.440 -46.126  1.00 64.63      TS20
ATOM  51463  N   ALA T  94      98.426  48.706 -45.845  1.00101.75      TS20
ATOM  51464  CA  ALA T  94      98.944  47.898 -46.930  1.00101.75      TS20
ATOM  51465  CB  ALA T  94     100.018  46.961 -46.411  1.00 90.97      TS20
ATOM  51466  C   ALA T  94      97.726  47.116 -47.377  1.00101.75      TS20
ATOM  51467  O   ALA T  94      97.817  45.956 -47.779  1.00101.75      TS20
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ATOM  51468  N   ALA T  95      96.578  47.780 -47.273  1.00 86.62      TS20
ATOM  51469  CA  ALA T  95      95.289  47.211 -47.639  1.00 86.62      TS20
ATOM  51470  CB  ALA T  95      95.398  46.441 -48.957  1.00164.05      TS20
ATOM  51471  C   ALA T  95      94.784  46.296 -46.538  1.00 86.62      TS20
ATOM  51472  O   ALA T  95      94.261  45.214 -46.810  1.00 86.62      TS20
ATOM  51473  N   GLY T  96      94.945  46.732 -45.293  1.00 59.49      TS20
ATOM  51474  CA  GLY T  96      94.492  45.940 -44.166  1.00 59.49      TS20
ATOM  51475  C   GLY T  96      93.019  46.169 -43.891  1.00 59.49      TS20
ATOM  51476  O   GLY T  96      92.189  45.294 -44.145  1.00 59.49      TS20
ATOM  51477  N   ALA T  97      92.689  47.355 -43.391  1.00 92.83      TS20
ATOM  51478  CA  ALA T  97      91.307  47.695 -43.066  1.00 92.83      TS20
ATOM  51479  CB  ALA T  97      90.352  47.199 -44.172  1.00 47.28      TS20
ATOM  51480  C   ALA T  97      90.970  47.021 -41.743  1.00 92.83      TS20
ATOM  51481  O   ALA T  97      90.509  45.885 -41.740  1.00 92.83      TS20
ATOM  51482  N   PRO T  98      91.193  47.721 -40.606  1.00 96.57      TS20
ATOM  51483  CD  PRO T  98      91.490  49.168 -40.553  1.00122.35      TS20
ATOM  51484  CA  PRO T  98      90.928  47.214 -39.255  1.00 96.57      TS20
ATOM  51485  CB  PRO T  98      90.544  48.477 -38.497  1.00122.35      TS20
ATOM  51486  CG  PRO T  98      91.530  49.456 -39.047  1.00122.35      TS20
ATOM  51487  C   PRO T  98      89.857  46.133 -39.219  1.00 96.57      TS20
ATOM  51488  O   PRO T  98      88.728  46.360 -38.789  1.00 96.57      TS20
ATOM  51489  N   LEU T  99      90.255  44.950 -39.677  1.00171.25      TS20
ATOM  51490  CA  LEU T  99      89.396  43.778 -39.761  1.00171.25      TS20
ATOM  51491  CB  LEU T  99      90.219  42.576 -40.238  1.00139.03      TS20
ATOM  51492  CG  LEU T  99      91.154  42.812 -41.433  1.00139.03      TS20
ATOM  51493  CD1 LEU T  99      92.040  41.588 -41.643  1.00139.03      TS20
ATOM  51494  CD2 LEU T  99      90.340  43.120 -42.684  1.00139.03      TS20
ATOM  51495  C   LEU T  99      88.749  43.457 -38.424  1.00171.25      TS20
ATOM  51496  O   LEU T  99      87.734  42.762 -38.367  1.00171.25      TS20
ATOM  51497  N   ILE T 100      89.341  43.966 -37.349  1.00 81.06      TS20
ATOM  51498  CA  ILE T 100      88.817  43.716 -36.012  1.00 81.06      TS20
ATOM  51499  CB  ILE T 100      89.710  42.707 -35.250  1.00200.96      TS20
ATOM  51500  CG2 ILE T 100      89.127  42.413 -33.866  1.00200.96      TS20
ATOM  51501  CG1 ILE T 100      89.824  41.416 -36.061  1.00200.96      TS20
ATOM  51502  CD1 ILE T 100      90.502  40.291 -35.331  1.00200.96      TS20
ATOM  51503  C   ILE T 100      88.706  44.996 -35.197  1.00 81.06      TS20
ATOM  51504  O   ILE T 100      88.222  44.975 -34.064  1.00 81.06      TS20
ATOM  51505  N   GLY T 101      89.157  46.105 -35.782  1.00197.59      TS20
ATOM  51506  CA  GLY T 101      89.108  47.395 -35.111  1.00197.59      TS20
ATOM  51507  C   GLY T 101      89.277  47.296 -33.608  1.00197.59      TS20
ATOM  51508  O   GLY T 101      88.800  48.151 -32.862  1.00197.59      TS20
ATOM  51509  N   GLY T 102      89.961  46.244 -33.168  1.00 72.22      TS20
ATOM  51510  CA  GLY T 102      90.179  46.032 -31.756  1.00 72.22      TS20
ATOM  51511  C   GLY T 102      90.712  47.256 -31.041  1.00 72.22      TS20
ATOM  51512  O   GLY T 102      89.946  48.112 -30.617  1.00 72.22      TS20
ATOM  51513  N   GLY T 103      92.033  47.347 -30.928  1.00 64.88      TS20
ATOM  51514  CA  GLY T 103      92.657  48.457 -30.227  1.00 64.88      TS20
ATOM  51515  C   GLY T 103      92.568  49.850 -30.812  1.00 64.88      TS20
ATOM  51516  O   GLY T 103      92.260  50.793 -30.094  1.00 64.88      TS20
ATOM  51517  N   LEU T 104      92.839  49.988 -32.104  1.00 47.45      TS20
ATOM  51518  CA  LEU T 104      92.810  51.291 -32.757  1.00 47.45      TS20
ATOM  51519  CB  LEU T 104      93.387  51.202 -34.160  1.00 33.85      TS20
ATOM  51520  CG  LEU T 104      94.756  50.545 -34.264  1.00 33.85      TS20
ATOM  51521  CD1 LEU T 104      95.210  50.651 -35.705  1.00 33.85      TS20
ATOM  51522  CD2 LEU T 104      95.751  51.191 -33.280  1.00 33.85      TS20
ATOM  51523  C   LEU T 104      91.425  51.846 -32.878  1.00 47.45      TS20
ATOM  51524  O   LEU T 104      90.482  51.105 -33.096  1.00 47.45      TS20
ATOM  51525  N   SER T 105      91.300  53.157 -32.745  1.00 43.25      TS20
ATOM  51526  CA  SER T 105      90.001  53.785 -32.892  1.00 43.25      TS20
ATOM  51527  CB  SER T 105      89.772  54.853 -31.801  1.00 38.66      TS20
ATOM  51528  OG  SER T 105      90.610  55.990 -31.909  1.00 38.66      TS20
ATOM  51529  C   SER T 105      89.979  54.390 -34.290  1.00 43.25      TS20
ATOM  51530  O   SER T 105      90.781  55.254 -34.616  1.00 43.25      TS20
ATOM  51531  N   ALA T 106      89.075  53.907 -35.128  1.00 90.67      TS20
ATOM  51532  CA  ALA T 106      88.983  54.402 -36.492  1.00 90.67      TS20
ATOM  51533  CB  ALA T 106      89.374  53.298 -37.469  1.00124.11      TS20
ATOM  51534  C   ALA T 106      87.582  54.915 -36.805  1.00 90.67      TS20
ATOM  51535  O   ALA T 106      87.472  56.041 -37.346  1.00 90.67      TS20
ATOM  51536  OXT ALA T 106      86.614  54.178 -36.514  1.00124.11      TS20
TER   51536       ALA T 106                                             TS20
ATOM  51537  C   GLY V   2     247.711 126.203  -1.986  1.00 47.38      VTHX
ATOM  51538  O   GLY V   2     248.391 125.726  -1.071  1.00 47.38      VTHX
ATOM  51539  N   GLY V   2     249.424 125.307  -3.518  1.00 47.38      VTHX
ATOM  51540  CA  GLY V   2     248.185 126.123  -3.420  1.00 47.38      VTHX
ATOM  51541  N   LYS V   3     246.540 126.797  -1.785  1.00 35.51      VTHX
ATOM  51542  CA  LYS V   3     245.990 126.955  -0.447  1.00 35.51      VTHX
ATOM  51543  CB  LYS V   3     244.526 127.392  -0.538  1.00 46.57      VTHX
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ATOM  51544  CG  LYS V   3     244.339 128.729  -1.239  1.00 46.57      VTHX
ATOM  51545  CD  LYS V   3     242.980 128.845  -1.908  1.00 46.57      VTHX
ATOM  51546  CE  LYS V   3     242.953 130.029  -2.883  1.00 46.57      VTHX
ATOM  51547  NZ  LYS V   3     241.705 130.108  -3.730  1.00 46.57      VTHX
ATOM  51548  C   LYS V   3     246.122 125.633   0.298  1.00 35.51      VTHX
ATOM  51549  O   LYS V   3     246.107 125.569   1.533  1.00 35.51      VTHX
ATOM  51550  N   GLY V   4     246.291 124.568  -0.460  1.00 43.24      VTHX
ATOM  51551  CA  GLY V   4     246.402 123.288   0.180  1.00 43.24      VTHX
ATOM  51552  C   GLY V   4     247.725 122.986   0.839  1.00 43.24      VTHX
ATOM  51553  O   GLY V   4     247.750 122.153   1.746  1.00 43.24      VTHX
ATOM  51554  N   ASP V   5     248.811 123.637   0.414  1.00 49.22      VTHX
ATOM  51555  CA  ASP V   5     250.138 123.341   0.978  1.00 49.22      VTHX
ATOM  51556  CB  ASP V   5     251.246 123.710  -0.010  1.00 77.14      VTHX
ATOM  51557  CG  ASP V   5     252.541 122.950   0.257  1.00 77.14      VTHX
ATOM  51558  OD1 ASP V   5     252.782 122.562   1.422  1.00 77.14      VTHX
ATOM  51559  OD2 ASP V   5     253.322 122.748  -0.701  1.00 77.14      VTHX
ATOM  51560  C   ASP V   5     250.461 123.979   2.324  1.00 49.22      VTHX
ATOM  51561  O   ASP V   5     250.651 125.192   2.425  1.00 49.22      VTHX
ATOM  51562  N   ARG V   6     250.548 123.138   3.351  1.00 71.21      VTHX
ATOM  51563  CA  ARG V   6     250.840 123.599   4.696  1.00 71.21      VTHX
ATOM  51564  CB  ARG V   6     251.081 122.404   5.623  1.00194.22      VTHX
ATOM  51565  CG  ARG V   6     251.352 122.792   7.069  1.00194.22      VTHX
ATOM  51566  CD  ARG V   6     251.595 121.573   7.951  1.00194.22      VTHX
ATOM  51567  NE  ARG V   6     252.832 120.875   7.608  1.00194.22      VTHX
ATOM  51568  CZ  ARG V   6     253.299 119.812   8.258  1.00194.22      VTHX
ATOM  51569  NH1 ARG V   6     252.631 119.316   9.293  1.00194.22      VTHX
ATOM  51570  NH2 ARG V   6     254.435 119.246   7.874  1.00194.22      VTHX
ATOM  51571  C   ARG V   6     252.062 124.512   4.709  1.00 71.21      VTHX
ATOM  51572  O   ARG V   6     251.943 125.712   4.957  1.00 71.21      VTHX
ATOM  51573  N   ARG V   7     253.229 123.941   4.416  1.00 58.82      VTHX
ATOM  51574  CA  ARG V   7     254.480 124.689   4.431  1.00 58.82      VTHX
ATOM  51575  CB  ARG V   7     255.662 123.710   4.541  1.00 58.05      VTHX
ATOM  51576  CG  ARG V   7     255.663 122.580   3.539  1.00 58.05      VTHX
ATOM  51577  CD  ARG V   7     256.901 121.685   3.673  1.00 58.05      VTHX
ATOM  51578  NE  ARG V   7     256.747 120.626   4.669  1.00 58.05      VTHX
ATOM  51579  CZ  ARG V   7     257.504 119.529   4.713  1.00 58.05      VTHX
ATOM  51580  NH1 ARG V   7     258.468 119.359   3.822  1.00 58.05      VTHX
ATOM  51581  NH2 ARG V   7     257.277 118.581   5.620  1.00 58.05      VTHX
ATOM  51582  C   ARG V   7     254.710 125.697   3.299  1.00 58.82      VTHX
ATOM  51583  O   ARG V   7     255.726 125.662   2.611  1.00 58.82      VTHX
ATOM  51584  N   THR V   8     253.757 126.609   3.131  1.00 47.65      VTHX
ATOM  51585  CA  THR V   8     253.843 127.663   2.122  1.00 47.65      VTHX
ATOM  51586  CB  THR V   8     253.222 127.233   0.775  1.00 87.87      VTHX
ATOM  51587  OG1 THR V   8     251.803 127.093   0.916  1.00 87.87      VTHX
ATOM  51588  CG2 THR V   8     253.812 125.925   0.317  1.00 87.87      VTHX
ATOM  51589  C   THR V   8     253.103 128.923   2.602  1.00 47.65      VTHX
ATOM  51590  O   THR V   8     252.327 128.878   3.563  1.00 47.65      VTHX
ATOM  51591  N   ARG V   9     253.344 130.044   1.929  1.00 57.79      VTHX
ATOM  51592  CA  ARG V   9     252.696 131.296   2.288  1.00 57.79      VTHX
ATOM  51593  CB  ARG V   9     253.007 132.362   1.233  1.00143.91      VTHX
ATOM  51594  CG  ARG V   9     252.624 133.780   1.626  1.00143.91      VTHX
ATOM  51595  CD  ARG V   9     253.532 134.317   2.718  1.00143.91      VTHX
ATOM  51596  NE  ARG V   9     253.151 135.667   3.117  1.00143.91      VTHX
ATOM  51597  CZ  ARG V   9     253.733 136.353   4.095  1.00143.91      VTHX
ATOM  51598  NH1 ARG V   9     254.734 135.817   4.782  1.00143.91      VTHX
ATOM  51599  NH2 ARG V   9     253.308 137.574   4.392  1.00143.91      VTHX
ATOM  51600  C   ARG V   9     251.183 131.069   2.371  1.00 57.79      VTHX
ATOM  51601  O   ARG V   9     250.643 130.830   3.459  1.00 57.79      VTHX
ATOM  51602  N   ARG V  10     250.511 131.136   1.217  1.00 68.42      VTHX
ATOM  51603  CA  ARG V  10     249.062 130.948   1.135  1.00 68.42      VTHX
ATOM  51604  CB  ARG V  10     248.633 130.722  -0.307  1.00 91.85      VTHX
ATOM  51605  CG  ARG V  10     248.846 131.913  -1.189  1.00 91.85      VTHX
ATOM  51606  CD  ARG V  10     248.462 131.583  -2.601  1.00 91.85      VTHX
ATOM  51607  NE  ARG V  10     248.765 132.680  -3.508  1.00 91.85      VTHX
ATOM  51608  CZ  ARG V  10     248.529 132.647  -4.815  1.00 91.85      VTHX
ATOM  51609  NH1 ARG V  10     247.986 131.567  -5.361  1.00 91.85      VTHX
ATOM  51610  NH2 ARG V  10     248.833 133.691  -5.576  1.00 91.85      VTHX
ATOM  51611  C   ARG V  10     248.619 129.770   1.970  1.00 68.42      VTHX
ATOM  51612  O   ARG V  10     247.581 129.817   2.627  1.00 68.42      VTHX
ATOM  51613  N   GLY V  11     249.406 128.704   1.929  1.00 54.48      VTHX
ATOM  51614  CA  GLY V  11     249.074 127.537   2.716  1.00 54.48      VTHX
ATOM  51615  C   GLY V  11     248.686 127.995   4.104  1.00 54.48      VTHX
ATOM  51616  O   GLY V  11     247.565 127.763   4.543  1.00 54.48      VTHX
ATOM  51617  N   LYS V  12     249.615 128.665   4.785  1.00 62.32      VTHX
ATOM  51618  CA  LYS V  12     249.371 129.181   6.133  1.00 62.32      VTHX
ATOM  51619  CB  LYS V  12     250.575 129.991   6.632  1.00 52.23      VTHX
ATOM  51620  CG  LYS V  12     251.366 129.340   7.749  1.00 52.23      VTHX
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ATOM  51621  CD  LYS V  12     252.125 128.158   7.234  1.00 52.23      VTHX
ATOM  51622  CE  LYS V  12     252.914 127.490   8.341  1.00 52.23      VTHX
ATOM  51623  NZ  LYS V  12     252.010 126.928   9.380  1.00 52.23      VTHX
ATOM  51624  C   LYS V  12     248.142 130.075   6.119  1.00 62.32      VTHX
ATOM  51625  O   LYS V  12     247.208 129.859   6.877  1.00 62.32      VTHX
ATOM  51626  N   ILE V  13     248.160 131.083   5.255  1.00 41.61      VTHX
ATOM  51627  CA  ILE V  13     247.043 132.000   5.133  1.00 41.61      VTHX
ATOM  51628  CB  ILE V  13     247.122 132.835   3.851  1.00 42.51      VTHX
ATOM  51629  CG2 ILE V  13     245.826 133.618   3.663  1.00 42.51      VTHX
ATOM  51630  CG1 ILE V  13     248.332 133.765   3.907  1.00 42.51      VTHX
ATOM  51631  CD1 ILE V  13     248.456 134.687   2.719  1.00 42.51      VTHX
ATOM  51632  C   ILE V  13     245.721 131.258   5.080  1.00 41.61      VTHX
ATOM  51633  O   ILE V  13     244.854 131.457   5.924  1.00 41.61      VTHX
ATOM  51634  N   TRP V  14     245.559 130.413   4.071  1.00 71.45      VTHX
ATOM  51635  CA  TRP V  14     244.326 129.660   3.909  1.00 71.45      VTHX
ATOM  51636  CB  TRP V  14     244.483 128.654   2.768  1.00 66.88      VTHX
ATOM  51637  CG  TRP V  14     243.210 127.987   2.431  1.00 66.88      VTHX
ATOM  51638  CD2 TRP V  14     242.814 126.668   2.807  1.00 66.88      VTHX
ATOM  51639  CE2 TRP V  14     241.483 126.496   2.381  1.00 66.88      VTHX
ATOM  51640  CE3 TRP V  14     243.454 125.615   3.469  1.00 66.88      VTHX
ATOM  51641  CD1 TRP V  14     242.144 128.544   1.803  1.00 66.88      VTHX
ATOM  51642  NE1 TRP V  14     241.098 127.657   1.769  1.00 66.88      VTHX
ATOM  51643  CZ2 TRP V  14     240.775 125.318   2.596  1.00 66.88      VTHX
ATOM  51644  CZ3 TRP V  14     242.750 124.438   3.684  1.00 66.88      VTHX
ATOM  51645  CH2 TRP V  14     241.424 124.300   3.248  1.00 66.88      VTHX
ATOM  51646  C   TRP V  14     243.938 128.933   5.203  1.00 71.45      VTHX
ATOM  51647  O   TRP V  14     242.791 128.984   5.651  1.00 71.45      VTHX
ATOM  51648  N   ARG V  15     244.912 128.262   5.799  1.00 45.41      VTHX
ATOM  51649  CA  ARG V  15     244.705 127.523   7.027  1.00 45.41      VTHX
ATOM  51650  CB  ARG V  15     245.875 126.557   7.230  1.00 83.57      VTHX
ATOM  51651  CG  ARG V  15     245.499 125.162   7.709  1.00 83.57      VTHX
ATOM  51652  CD  ARG V  15     246.619 124.168   7.363  1.00 83.57      VTHX
ATOM  51653  NE  ARG V  15     246.583 122.928   8.148  1.00 83.57      VTHX
ATOM  51654  CZ  ARG V  15     247.489 121.953   8.059  1.00 83.57      VTHX
ATOM  51655  NH1 ARG V  15     248.508 122.060   7.212  1.00 83.57      VTHX
ATOM  51656  NH2 ARG V  15     247.386 120.878   8.835  1.00 83.57      VTHX
ATOM  51657  C   ARG V  15     244.611 128.519   8.184  1.00 45.41      VTHX
ATOM  51658  O   ARG V  15     244.339 128.138   9.325  1.00 45.41      VTHX
ATOM  51659  N   GLY V  16     244.848 129.796   7.889  1.00 78.19      VTHX
ATOM  51660  CA  GLY V  16     244.773 130.837   8.908  1.00 78.19      VTHX
ATOM  51661  C   GLY V  16     245.934 130.975   9.890  1.00 78.19      VTHX
ATOM  51662  O   GLY V  16     246.056 132.007  10.549  1.00 78.19      VTHX
ATOM  51663  N   THR V  17     246.787 129.954   9.980  1.00 57.94      VTHX
ATOM  51664  CA  THR V  17     247.933 129.938  10.894  1.00 57.94      VTHX
ATOM  51665  CB  THR V  17     248.481 128.513  11.041  1.00 64.65      VTHX
ATOM  51666  OG1 THR V  17     248.937 128.053   9.765  1.00 64.65      VTHX
ATOM  51667  CG2 THR V  17     247.410 127.572  11.556  1.00 64.65      VTHX
ATOM  51668  C   THR V  17     249.143 130.834  10.565  1.00 57.94      VTHX
ATOM  51669  O   THR V  17     249.088 131.739   9.714  1.00 57.94      VTHX
ATOM  51670  N   TYR V  18     250.234 130.554  11.282  1.00 90.93      VTHX
ATOM  51671  CA  TYR V  18     251.514 131.247  11.146  1.00 90.93      VTHX
ATOM  51672  CB  TYR V  18     251.656 132.370  12.160  1.00 42.01      VTHX
ATOM  51673  CG  TYR V  18     250.718 133.514  11.968  1.00 42.01      VTHX
ATOM  51674  CD1 TYR V  18     249.527 133.584  12.681  1.00 42.01      VTHX
ATOM  51675  CE1 TYR V  18     248.671 134.666  12.539  1.00 42.01      VTHX
ATOM  51676  CD2 TYR V  18     251.036 134.553  11.094  1.00 42.01      VTHX
ATOM  51677  CE2 TYR V  18     250.189 135.643  10.938  1.00 42.01      VTHX
ATOM  51678  CZ  TYR V  18     249.007 135.692  11.666  1.00 42.01      VTHX
ATOM  51679  OH  TYR V  18     248.163 136.763  11.518  1.00 42.01      VTHX
ATOM  51680  C   TYR V  18     252.657 130.281  11.403  1.00 90.93      VTHX
ATOM  51681  O   TYR V  18     252.452 129.160  11.872  1.00 90.93      VTHX
ATOM  51682  N   GLY V  19     253.869 130.739  11.126  1.00 57.37      VTHX
ATOM  51683  CA  GLY V  19     255.028 129.897  11.341  1.00 57.37      VTHX
ATOM  51684  C   GLY V  19     256.169 130.253  10.413  1.00 57.37      VTHX
ATOM  51685  O   GLY V  19     256.146 131.283   9.733  1.00 57.37      VTHX
ATOM  51686  N   LYS V  20     257.173 129.388  10.379  1.00 55.53      VTHX
ATOM  51687  CA  LYS V  20     258.324 129.630   9.540  1.00 55.53      VTHX
ATOM  51688  CB  LYS V  20     259.186 128.371   9.442  1.00 65.86      VTHX
ATOM  51689  CG  LYS V  20     260.331 128.517   8.448  1.00 65.86      VTHX
ATOM  51690  CD  LYS V  20     261.487 127.565   8.720  1.00 65.86      VTHX
ATOM  51691  CE  LYS V  20     261.146 126.123   8.425  1.00 65.86      VTHX
ATOM  51692  NZ  LYS V  20     262.321 125.259   8.731  1.00 65.86      VTHX
ATOM  51693  C   LYS V  20     257.946 130.101   8.144  1.00 55.53      VTHX
ATOM  51694  O   LYS V  20     258.637 130.935   7.568  1.00 55.53      VTHX
ATOM  51695  N   TYR V  21     256.844 129.596   7.599  1.00 66.55      VTHX
ATOM  51696  CA  TYR V  21     256.459 129.981   6.243  1.00 66.55      VTHX
ATOM  51697  CB  TYR V  21     255.897 128.772   5.516  1.00 46.33      VTHX
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ATOM  51698  CG  TYR V  21     256.868 127.619   5.519  1.00 46.33      VTHX
ATOM  51699  CD1 TYR V  21     256.906 126.716   6.586  1.00 46.33      VTHX
ATOM  51700  CE1 TYR V  21     257.815 125.665   6.605  1.00 46.33      VTHX
ATOM  51701  CD2 TYR V  21     257.770 127.443   4.467  1.00 46.33      VTHX
ATOM  51702  CE2 TYR V  21     258.682 126.397   4.474  1.00 46.33      VTHX
ATOM  51703  CZ  TYR V  21     258.699 125.512   5.545  1.00 46.33      VTHX
ATOM  51704  OH  TYR V  21     259.601 124.476   5.549  1.00 46.33      VTHX
ATOM  51705  C   TYR V  21     255.513 131.169   6.111  1.00 66.55      VTHX
ATOM  51706  O   TYR V  21     255.006 131.462   5.025  1.00 66.55      VTHX
ATOM  51707  N   ARG V  22     255.306 131.860   7.227  1.00 91.02      VTHX
ATOM  51708  CA  ARG V  22     254.456 133.042   7.287  1.00 91.02      VTHX
ATOM  51709  CB  ARG V  22     253.048 132.730   6.804  1.00 56.27      VTHX
ATOM  51710  CG  ARG V  22     252.128 133.932   6.779  1.00 56.27      VTHX
ATOM  51711  CD  ARG V  22     250.760 133.533   7.287  1.00 56.27      VTHX
ATOM  51712  NE  ARG V  22     249.793 134.610   7.141  1.00 56.27      VTHX
ATOM  51713  CZ  ARG V  22     248.572 134.571   7.652  1.00 56.27      VTHX
ATOM  51714  NH1 ARG V  22     248.183 133.504   8.345  1.00 56.27      VTHX
ATOM  51715  NH2 ARG V  22     247.747 135.593   7.461  1.00 56.27      VTHX
ATOM  51716  C   ARG V  22     254.406 133.498   8.733  1.00 91.02      VTHX
ATOM  51717  O   ARG V  22     253.395 133.334   9.422  1.00 91.02      VTHX
ATOM  51718  N   PRO V  23     255.519 134.052   9.223  1.00 94.08      VTHX
ATOM  51719  CD  PRO V  23     256.863 134.037   8.623  1.00123.14      VTHX
ATOM  51720  CA  PRO V  23     255.574 134.524  10.605  1.00 94.08      VTHX
ATOM  51721  CB  PRO V  23     257.062 134.806  10.809  1.00123.14      VTHX
ATOM  51722  CG  PRO V  23     257.730 133.863   9.832  1.00123.14      VTHX
ATOM  51723  C   PRO V  23     254.716 135.770  10.775  1.00 94.08      VTHX
ATOM  51724  O   PRO V  23     254.268 136.362   9.787  1.00 94.08      VTHX
ATOM  51725  N   ARG V  24     254.486 136.160  12.026  1.00 74.77      VTHX
ATOM  51726  CA  ARG V  24     253.690 137.348  12.303  1.00 74.77      VTHX
ATOM  51727  CB  ARG V  24     253.219 137.352  13.758  1.00119.99      VTHX
ATOM  51728  CG  ARG V  24     252.272 136.225  14.106  1.00119.99      VTHX
ATOM  51729  CD  ARG V  24     251.566 136.495  15.422  1.00119.99      VTHX
ATOM  51730  NE  ARG V  24     250.722 135.376  15.828  1.00119.99      VTHX
ATOM  51731  CZ  ARG V  24     251.179 134.156  16.093  1.00119.99      VTHX
ATOM  51732  NH1 ARG V  24     252.476 133.899  15.996  1.00119.99      VTHX
ATOM  51733  NH2 ARG V  24     250.340 133.191  16.452  1.00119.99      VTHX
ATOM  51734  C   ARG V  24     254.498 138.614  12.020  1.00 74.77      VTHX
ATOM  51735  O   ARG V  24     253.956 139.722  12.033  1.00 74.77      VTHX
ATOM  51736  N   LYS V  25     255.790 138.426  11.751  1.00184.37      VTHX
ATOM  51737  CA  LYS V  25     256.734 139.507  11.458  1.00184.37      VTHX
ATOM  51738  CB  LYS V  25     256.034 140.680  10.756  1.00191.45      VTHX
ATOM  51739  CG  LYS V  25     256.973 141.764  10.236  1.00191.45      VTHX
ATOM  51740  CD  LYS V  25     256.198 142.968   9.718  1.00191.45      VTHX
ATOM  51741  CE  LYS V  25     255.234 142.579   8.606  1.00191.45      VTHX
ATOM  51742  NZ  LYS V  25     254.410 143.732   8.146  1.00191.45      VTHX
ATOM  51743  C   LYS V  25     257.378 139.988  12.752  1.00184.37      VTHX
ATOM  51744  O   LYS V  25     256.995 139.464  13.821  1.00184.37      VTHX
ATOM  51745  OXT LYS V  25     258.256 140.876  12.683  1.00191.45      VTHX
TER   51745       LYS V  25                                              VTHX
ATOM  51746  O5* G   Y  28     200.397  81.952  11.098  1.00200.96      YASL
ATOM  51747  C5* G   Y  28     201.333  83.011  11.310  1.00200.96      YASL
ATOM  51748  C4* G   Y  28     202.379  82.653  12.340  1.00200.96      YASL
ATOM  51749  O4* G   Y  28     203.162  81.527  11.868  1.00200.96      YASL
ATOM  51750  C1* G   Y  28     204.505  81.662  12.303  1.00200.96      YASL
ATOM  51751  N9  G   Y  28     205.389  81.563  11.139  1.00200.96      YASL
ATOM  51752  C4  G   Y  28     206.747  81.806  11.108  1.00200.96      YASL
ATOM  51753  N3  G   Y  28     207.510  82.196  12.152  1.00200.96      YASL
ATOM  51754  C2  G   Y  28     208.780  82.343  11.810  1.00200.96      YASL
ATOM  51755  N2  G   Y  28     209.680  82.726  12.728  1.00200.96      YASL
ATOM  51756  N1  G   Y  28     209.263  82.125  10.542  1.00200.96      YASL
ATOM  51757  C6  G   Y  28     208.498  81.724   9.451  1.00200.96      YASL
ATOM  51758  O6  G   Y  28     209.036  81.556   8.348  1.00200.96      YASL
ATOM  51759  C5  G   Y  28     207.132  81.562   9.805  1.00200.96      YASL
ATOM  51760  N7  G   Y  28     206.044  81.178   9.033  1.00200.96      YASL
ATOM  51761  C8  G   Y  28     205.035  81.195   9.861  1.00200.96      YASL
ATOM  51762  C2* G   Y  28     204.618  82.959  13.113  1.00200.96      YASL
ATOM  51763  O2* G   Y  28     204.578  82.647  14.492  1.00200.96      YASL
ATOM  51764  C3* G   Y  28     203.396  83.745  12.639  1.00200.96      YASL
ATOM  51765  O3* G   Y  28     202.900  84.630  13.646  1.00200.96      YASL
ATOM  51766  P   G   Y  29     203.142  86.217  13.514  1.00200.37      YASL
ATOM  51767  O1P G   Y  29     202.901  86.598  12.095  1.00200.48      YASL
ATOM  51768  O2P G   Y  29     202.374  86.892  14.592  1.00200.48      YASL
ATOM  51769  O5* G   Y  29     204.696  86.402  13.821  1.00200.37      YASL
ATOM  51770  C5* G   Y  29     205.207  86.302  15.166  1.00200.37      YASL
ATOM  51771  C4* G   Y  29     206.648  86.749  15.210  1.00200.37      YASL
ATOM  51772  O4* G   Y  29     207.452  85.844  14.410  1.00200.37      YASL
ATOM  51773  C1* G   Y  29     208.480  86.569  13.753  1.00200.37      YASL
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ATOM  51774  N9  G   Y  29     208.341   86.373   12.311  1.00200.48      YASL
ATOM  51775  C4  G   Y  29     209.297   86.632   11.351  1.00200.48      YASL
ATOM  51776  N3  G   Y  29     210.541   87.110   11.575  1.00200.48      YASL
ATOM  51777  C2  G   Y  29     211.224   87.261   10.452  1.00200.48      YASL
ATOM  51778  N2  G   Y  29     212.481   87.726   10.491  1.00200.48      YASL
ATOM  51779  N1  G   Y  29     210.725   86.966    9.207  1.00200.48      YASL
ATOM  51780  C6  G   Y  29     209.449   86.474    8.951  1.00200.48      YASL
ATOM  51781  O6  G   Y  29     209.098   86.243    7.787  1.00200.48      YASL
ATOM  51782  C5  G   Y  29     208.705   86.307   10.148  1.00200.48      YASL
ATOM  51783  N7  G   Y  29     207.409   85.848   10.344  1.00200.48      YASL
ATOM  51784  C8  G   Y  29     207.237   85.903   11.637  1.00200.48      YASL
ATOM  51785  C2* G   Y  29     208.373   88.035   14.183  1.00200.37      YASL
ATOM  51786  O2* G   Y  29     209.291   88.292   15.227  1.00200.37      YASL
ATOM  51787  C3* G   Y  29     206.917   88.128   14.628  1.00200.37      YASL
ATOM  51788  O3* G   Y  29     206.711   89.151   15.597  1.00200.37      YASL
ATOM  51789  P   G   Y  30     206.144   90.586   15.139  1.00156.19      YASL
ATOM  51790  O1P G   Y  30     205.827   91.342   16.379  1.00160.41      YASL
ATOM  51791  O2P G   Y  30     205.081   90.367   14.124  1.00160.41      YASL
ATOM  51792  O5* G   Y  30     207.387   91.296   14.431  1.00156.19      YASL
ATOM  51793  C5* G   Y  30     208.519   91.752   15.205  1.00156.19      YASL
ATOM  51794  C4* G   Y  30     209.672   92.129   14.299  1.00156.19      YASL
ATOM  51795  O4* G   Y  30     210.037   90.982   13.490  1.00156.19      YASL
ATOM  51796  C1* G   Y  30     210.469   91.415   12.212  1.00156.19      YASL
ATOM  51797  N9  G   Y  30     209.597   90.821   11.201  1.00160.41      YASL
ATOM  51798  C4  G   Y  30     209.691   90.987    9.838  1.00160.41      YASL
ATOM  51799  N3  G   Y  30     210.618   91.723    9.191  1.00160.41      YASL
ATOM  51800  C2  G   Y  30     210.443   91.700    7.882  1.00160.41      YASL
ATOM  51801  N2  G   Y  30     211.278   92.381    7.087  1.00160.41      YASL
ATOM  51802  N1  G   Y  30     209.436   91.008    7.257  1.00160.41      YASL
ATOM  51803  C6  G   Y  30     208.470   90.243    7.904  1.00160.41      YASL
ATOM  51804  O6  G   Y  30     207.599   89.658    7.244  1.00160.41      YASL
ATOM  51805  C5  G   Y  30     208.649   90.258    9.308  1.00160.41      YASL
ATOM  51806  N7  G   Y  30     207.920   89.638   10.313  1.00160.41      YASL
ATOM  51807  C8  G   Y  30     208.518   89.997   11.415  1.00160.41      YASL
ATOM  51808  C2* G   Y  30     210.439   92.946   12.202  1.00156.19      YASL
ATOM  51809  O2* G   Y  30     211.728   93.440   12.498  1.00156.19      YASL
ATOM  51810  C3* G   Y  30     209.425   93.249   13.298  1.00156.19      YASL
ATOM  51811  O3* G   Y  30     209.654   94.532   13.876  1.00156.19      YASL
ATOM  51812  P   A   Y  31     208.973   95.838   13.223  1.00112.93      YASL
ATOM  51813  O1P A   Y  31     209.286   96.996   14.103  1.00162.68      YASL
ATOM  51814  O2P A   Y  31     207.557   95.523   12.907  1.00162.68      YASL
ATOM  51815  O5* A   Y  31     209.755   96.050   11.850  1.00112.93      YASL
ATOM  51816  C5* A   Y  31     211.148   96.432   11.836  1.00112.93      YASL
ATOM  51817  C4* A   Y  31     211.611   96.679   10.418  1.00112.93      YASL
ATOM  51818  O4* A   Y  31     211.503   95.453    9.654  1.00112.93      YASL
ATOM  51819  C1* A   Y  31     211.114   95.751    8.327  1.00112.93      YASL
ATOM  51820  N9  A   Y  31     209.886   95.011    8.034  1.00162.68      YASL
ATOM  51821  C4  A   Y  31     209.332   94.806    6.794  1.00162.68      YASL
ATOM  51822  N3  A   Y  31     209.790   95.253    5.612  1.00162.68      YASL
ATOM  51823  C2  A   Y  31     208.997   94.853    4.623  1.00162.68      YASL
ATOM  51824  N1  A   Y  31     207.883   94.115    4.677  1.00162.68      YASL
ATOM  51825  C6  A   Y  31     207.450   93.683    5.881  1.00162.68      YASL
ATOM  51826  N6  A   Y  31     206.338   92.946    5.937  1.00162.68      YASL
ATOM  51827  C5  A   Y  31     208.202   94.039    7.008  1.00162.68      YASL
ATOM  51828  N7  A   Y  31     208.040   93.769    8.359  1.00162.68      YASL
ATOM  51829  C8  A   Y  31     209.057   94.370    8.923  1.00162.68      YASL
ATOM  51830  C2* A   Y  31     210.990   97.273    8.193  1.00112.93      YASL
ATOM  51831  O2* A   Y  31     212.162   97.806    7.609  1.00112.93      YASL
ATOM  51832  C3* A   Y  31     210.807   97.707    9.642  1.00112.93      YASL
ATOM  51833  O3* A   Y  31     211.340   99.007    9.860  1.00112.93      YASL
ATOM  51834  P   U   Y  32     210.386  100.291    9.735  1.00105.89      YASL
ATOM  51835  O1P U   Y  32     209.322  100.154   10.770  1.00 97.55       YASL
ATOM  51836  O2P U   Y  32     211.232  101.518    9.702  1.00 97.55       YASL
ATOM  51837  O5* U   Y  32     209.726  100.131    8.296  1.00105.89      YASL
ATOM  51838  C5* U   Y  32     210.452  100.496    7.107  1.00105.89      YASL
ATOM  51839  C4* U   Y  32     209.568  100.344    5.895  1.00105.89      YASL
ATOM  51840  O4* U   Y  32     209.277   98.940    5.680  1.00105.89      YASL
ATOM  51841  C1* U   Y  32     207.958   98.798    5.184  1.00105.89      YASL
ATOM  51842  N1  U   Y  32     207.196   97.928    6.094  1.00 97.55       YASL
ATOM  51843  C6  U   Y  32     207.617   97.675    7.378  1.00 97.55       YASL
ATOM  51844  C2  U   Y  32     206.026   97.368    5.611  1.00 97.55       YASL
ATOM  51845  O2  U   Y  32     205.608   97.571    4.476  1.00 97.55       YASL
ATOM  51846  N3  U   Y  32     205.357   96.565    6.501  1.00 97.55       YASL
ATOM  51847  C4  U   Y  32     205.723   96.274    7.793  1.00 97.55       YASL
ATOM  51848  O4  U   Y  32     205.010   95.530    8.470  1.00 97.55       YASL
ATOM  51849  C5  U   Y  32     206.939   96.891    8.220  1.00 97.55       YASL
ATOM  51850  C2* U   Y  32     207.357  100.196    5.035  1.00105.89      YASL
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ATOM  51851  O2* U   Y  32     207.498 100.623   3.697  1.00105.89      YASL
ATOM  51852  C3* U   Y  32     208.206 101.002   6.006  1.00105.89      YASL
ATOM  51853  O3* U   Y  32     208.257 102.376   5.670  1.00105.89      YASL
ATOM  51854  P   U   Y  33     207.123 103.363   6.230  1.00101.31      YASL
ATOM  51855  O1P U   Y  33     207.473 104.780   5.959  1.00 66.50      YASL
ATOM  51856  O2P U   Y  33     206.755 102.944   7.615  1.00 66.50      YASL
ATOM  51857  O5* U   Y  33     205.878 103.067   5.301  1.00101.31      YASL
ATOM  51858  C5* U   Y  33     204.626 103.620   5.642  1.00101.31      YASL
ATOM  51859  C4* U   Y  33     203.537 102.973   4.855  1.00101.31      YASL
ATOM  51860  O4* U   Y  33     203.764 101.550   4.766  1.00101.31      YASL
ATOM  51861  C1* U   Y  33     202.544 100.865   4.950  1.00101.31      YASL
ATOM  51862  N1  U   Y  33     202.668 100.061   6.174  1.00 66.50      YASL
ATOM  51863  C6  U   Y  33     203.791 100.114   6.957  1.00 66.50      YASL
ATOM  51864  C2  U   Y  33     201.610  99.256   6.517  1.00 66.50      YASL
ATOM  51865  O2  U   Y  33     200.603  99.170   5.840  1.00 66.50      YASL
ATOM  51866  N3  U   Y  33     201.765  98.555   7.681  1.00 66.50      YASL
ATOM  51867  C4  U   Y  33     202.846  98.575   8.516  1.00 66.50      YASL
ATOM  51868  O4  U   Y  33     202.800  97.945   9.575  1.00 66.50      YASL
ATOM  51869  C5  U   Y  33     203.914  99.419   8.084  1.00 66.50      YASL
ATOM  51870  C2* U   Y  33     201.432 101.918   5.037  1.00101.31      YASL
ATOM  51871  O2* U   Y  33     200.882 102.124   3.752  1.00101.31      YASL
ATOM  51872  C3* U   Y  33     202.204 103.123   5.545  1.00101.31      YASL
ATOM  51873  O3* U   Y  33     201.659 104.397   5.254  1.00101.31      YASL
ATOM  51874  P   G   Y  34     201.793 105.564   6.348  1.00 47.75      YASL
ATOM  51875  O1P G   Y  34     200.902 106.680   5.942  1.00 66.57      YASL
ATOM  51876  O2P G   Y  34     203.224 105.843   6.575  1.00 66.57      YASL
ATOM  51877  O5* G   Y  34     201.253 104.829   7.656  1.00 47.75      YASL
ATOM  51878  C5* G   Y  34     200.458 105.523   8.641  1.00 47.75      YASL
ATOM  51879  C4* G   Y  34     199.114 104.837   8.820  1.00 47.75      YASL
ATOM  51880  O4* G   Y  34     198.163 105.292   7.827  1.00 47.75      YASL
ATOM  51881  C1* G   Y  34     197.259 104.245   7.529  1.00 47.75      YASL
ATOM  51882  N9  G   Y  34     197.174 104.094   6.076  1.00 66.57      YASL
ATOM  51883  C4  G   Y  34     196.258 103.334   5.372  1.00 66.57      YASL
ATOM  51884  N3  G   Y  34     195.299 102.547   5.904  1.00 66.57      YASL
ATOM  51885  C2  G   Y  34     194.568 101.955   4.970  1.00 66.57      YASL
ATOM  51886  N2  G   Y  34     193.566 101.136   5.325  1.00 66.57      YASL
ATOM  51887  N1  G   Y  34     194.764 102.122   3.623  1.00 66.57      YASL
ATOM  51888  C6  G   Y  34     195.742 102.923   3.054  1.00 66.57      YASL
ATOM  51889  O6  G   Y  34     195.832 103.001   1.829  1.00 66.57      YASL
ATOM  51890  C5  G   Y  34     196.536 103.565   4.044  1.00 66.57      YASL
ATOM  51891  N7  G   Y  34     197.615 104.429   3.911  1.00 66.57      YASL
ATOM  51892  C8  G   Y  34     197.964 104.709   5.136  1.00 66.57      YASL
ATOM  51893  C2* G   Y  34     197.676 103.006   8.328  1.00 47.75      YASL
ATOM  51894  O2* G   Y  34     196.890 102.926   9.492  1.00 47.75      YASL
ATOM  51895  C3* G   Y  34     199.115 103.325   8.693  1.00 47.75      YASL
ATOM  51896  O3* G   Y  34     199.469 102.709   9.911  1.00 47.75      YASL
ATOM  51897  P   A   Y  35     200.355 101.375   9.881  1.00 54.45      YASL
ATOM  51898  O1P A   Y  35     200.690 100.968  11.280  1.00 64.37      YASL
ATOM  51899  O2P A   Y  35     201.457 101.659   8.911  1.00 64.37      YASL
ATOM  51900  O5* A   Y  35     199.385 100.272   9.256  1.00 54.45      YASL
ATOM  51901  C5* A   Y  35     198.425  99.589  10.079  1.00 54.45      YASL
ATOM  51902  C4* A   Y  35     197.448  98.801   9.234  1.00 54.45      YASL
ATOM  51903  O4* A   Y  35     196.766  99.698   8.327  1.00 54.45      YASL
ATOM  51904  C1* A   Y  35     196.423  99.000   7.144  1.00 54.45      YASL
ATOM  51905  N9  A   Y  35     197.039  99.676   6.007  1.00 64.37      YASL
ATOM  51906  C4  A   Y  35     196.793  99.396   4.688  1.00 64.37      YASL
ATOM  51907  N3  A   Y  35     195.965  98.459   4.199  1.00 64.37      YASL
ATOM  51908  C2  A   Y  35     195.970  98.481   2.875  1.00 64.37      YASL
ATOM  51909  N1  A   Y  35     196.654  99.275   2.047  1.00 64.37      YASL
ATOM  51910  C6  A   Y  35     197.477 100.206   2.574  1.00 64.37      YASL
ATOM  51911  N6  A   Y  35     198.155 101.003   1.745  1.00 64.37      YASL
ATOM  51912  C5  A   Y  35     197.564 100.279   3.968  1.00 64.37      YASL
ATOM  51913  N7  A   Y  35     198.294 101.095   4.815  1.00 64.37      YASL
ATOM  51914  C8  A   Y  35     197.949 100.696   6.009  1.00 64.37      YASL
ATOM  51915  C2* A   Y  35     196.912  97.562   7.282  1.00 54.45      YASL
ATOM  51916  O2* A   Y  35     195.857  96.740   7.725  1.00 54.45      YASL
ATOM  51917  C3* A   Y  35     197.999  97.706   8.331  1.00 54.45      YASL
ATOM  51918  O3* A   Y  35     198.197  96.469   8.991  1.00 54.45      YASL
ATOM  51919  P   A   Y  36     199.317  95.464   8.439  1.00 96.77      YASL
ATOM  51920  O1P A   Y  36     199.310  94.257   9.316  1.00 49.06      YASL
ATOM  51921  O2P A   Y  36     200.561  96.257   8.275  1.00 49.06      YASL
ATOM  51922  O5* A   Y  36     198.807  95.051   6.986  1.00 96.77      YASL
ATOM  51923  C5* A   Y  36     197.733  94.116   6.838  1.00 96.77      YASL
ATOM  51924  C4* A   Y  36     197.398  93.895   5.381  1.00 96.77      YASL
ATOM  51925  O4* A   Y  36     197.041  95.147   4.747  1.00 96.77      YASL
ATOM  51926  C1* A   Y  36     197.308  95.062   3.360  1.00 96.77      YASL
ATOM  51927  N9  A   Y  36     198.212  96.143   2.980  1.00 49.06      YASL
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ATOM  51928  C4  A  Y  36     198.557  96.497   1.697  1.00 49.06      YASL
ATOM  51929  N3  A  Y  36     198.150  95.922   0.555  1.00 49.06      YASL
ATOM  51930  C2  A  Y  36     198.700  96.529  -0.493  1.00 49.06      YASL
ATOM  51931  N1  A  Y  36     199.542  97.571  -0.525  1.00 49.06      YASL
ATOM  51932  C6  A  Y  36     199.921  98.124   0.641  1.00 49.06      YASL
ATOM  51933  N6  A  Y  36     200.749  99.164   0.615  1.00 49.06      YASL
ATOM  51934  C5  A  Y  36     199.417  97.569   1.820  1.00 49.06      YASL
ATOM  51935  N7  A  Y  36     199.612  97.888   3.153  1.00 49.06      YASL
ATOM  51936  C8  A  Y  36     198.881  97.011   3.797  1.00 49.06      YASL
ATOM  51937  C2* A  Y  36     197.910  93.688   3.092  1.00 96.77      YASL
ATOM  51938  O2* A  Y  36     196.860  92.813   2.733  1.00 96.77      YASL
ATOM  51939  C3* A  Y  36     198.454  93.314   4.459  1.00 96.77      YASL
ATOM  51940  O3* A  Y  36     198.511  91.903   4.553  1.00 96.77      YASL
ATOM  51941  P   A  Y  37     199.778  91.119   3.951  1.00 72.74      YASL
ATOM  51942  O1P A  Y  37     201.016  91.837   4.379  1.00 72.58      YASL
ATOM  51943  O2P A  Y  37     199.575  89.689   4.328  1.00 72.58      YASL
ATOM  51944  O5* A  Y  37     199.659  91.270   2.366  1.00 72.74      YASL
ATOM  51945  C5* A  Y  37     198.833  90.365   1.594  1.00 72.74      YASL
ATOM  51946  C4* A  Y  37     198.916  90.693   0.122  1.00 72.74      YASL
ATOM  51947  O4* A  Y  37     198.669  92.108  -0.033  1.00 72.74      YASL
ATOM  51948  C1* A  Y  37     199.514  92.633  -1.033  1.00 72.74      YASL
ATOM  51949  N9  A  Y  37     200.388  93.622  -0.412  1.00 72.58      YASL
ATOM  51950  C4  A  Y  37     201.270  94.441  -1.070  1.00 72.58      YASL
ATOM  51951  N3  A  Y  37     201.541  94.452  -2.384  1.00 72.58      YASL
ATOM  51952  C2  A  Y  37     202.424  95.403  -2.670  1.00 72.58      YASL
ATOM  51953  N1  A  Y  37     203.013  96.286  -1.855  1.00 72.58      YASL
ATOM  51954  C6  A  Y  37     202.717  96.248  -0.539  1.00 72.58      YASL
ATOM  51955  N6  A  Y  37     203.293  97.139   0.272  1.00 72.58      YASL
ATOM  51956  C5  A  Y  37     201.806  95.269  -0.104  1.00 72.58      YASL
ATOM  51957  N7  A  Y  37     201.307  94.947   1.150  1.00 72.58      YASL
ATOM  51958  C8  A  Y  37     200.480  93.959   0.914  1.00 72.58      YASL
ATOM  51959  C2* A  Y  37     200.279  91.475  -1.661  1.00 72.74      YASL
ATOM  51960  O2* A  Y  37     199.576  91.036  -2.808  1.00 72.74      YASL
ATOM  51961  C3* A  Y  37     200.271  90.462  -0.528  1.00 72.74      YASL
ATOM  51962  O3* A  Y  37     200.400  89.135  -1.019  1.00 72.74      YASL
ATOM  51963  P   A  Y  38     201.801  88.358  -0.857  1.00 75.39      YASL
ATOM  51964  O1P A  Y  38     201.656  87.091  -1.619  1.00 78.60      YASL
ATOM  51965  O2P A  Y  38     202.153  88.308   0.590  1.00 78.60      YASL
ATOM  51966  O5* A  Y  38     202.863  89.280  -1.608  1.00 75.39      YASL
ATOM  51967  C5* A  Y  38     202.851  89.391  -3.036  1.00 75.39      YASL
ATOM  51968  C4* A  Y  38     203.793  90.475  -3.485  1.00 75.39      YASL
ATOM  51969  O4* A  Y  38     203.388  91.735  -2.890  1.00 75.39      YASL
ATOM  51970  C1* A  Y  38     204.532  92.529  -2.620  1.00 75.39      YASL
ATOM  51971  N9  A  Y  38     204.602  92.772  -1.180  1.00 78.60      YASL
ATOM  51972  C4  A  Y  38     205.175  93.869  -0.582  1.00 78.60      YASL
ATOM  51973  N3  A  Y  38     205.764  94.916  -1.189  1.00 78.60      YASL
ATOM  51974  C2  A  Y  38     206.201  95.794  -0.290  1.00 78.60      YASL
ATOM  51975  N1  A  Y  38     206.122  95.749   1.044  1.00 78.60      YASL
ATOM  51976  C6  A  Y  38     205.523  94.682   1.621  1.00 78.60      YASL
ATOM  51977  N6  A  Y  38     205.437  94.637   2.949  1.00 78.60      YASL
ATOM  51978  C5  A  Y  38     205.021  93.679   0.779  1.00 78.60      YASL
ATOM  51979  N7  A  Y  38     204.368  92.480   1.038  1.00 78.60      YASL
ATOM  51980  C8  A  Y  38     204.140  91.982  -0.152  1.00 78.60      YASL
ATOM  51981  C2* A  Y  38     205.756  91.753  -3.099  1.00 75.39      YASL
ATOM  51982  O2* A  Y  38     206.126  92.194  -4.390  1.00 75.39      YASL
ATOM  51983  C3* A  Y  38     205.242  90.319  -3.060  1.00 75.39      YASL
ATOM  51984  O3* A  Y  38     205.981  89.457  -3.908  1.00 75.39      YASL
ATOM  51985  P   U  Y  39     207.171  88.578  -3.288  1.00116.02      YASL
ATOM  51986  O1P U  Y  39     207.788  87.879  -4.435  1.00 84.11      YASL
ATOM  51987  O2P U  Y  39     206.668  87.790  -2.128  1.00 84.11      YASL
ATOM  51988  O5* U  Y  39     208.189  89.673  -2.742  1.00116.02      YASL
ATOM  51989  C5* U  Y  39     208.777  90.644  -3.630  1.00116.02      YASL
ATOM  51990  C4* U  Y  39     209.620  91.629  -2.850  1.00116.02      YASL
ATOM  51991  O4* U  Y  39     208.765  92.513  -2.075  1.00116.02      YASL
ATOM  51992  C1* U  Y  39     209.384  92.810  -0.831  1.00116.02      YASL
ATOM  51993  N1  U  Y  39     208.543  92.273   0.254  1.00 84.11      YASL
ATOM  51994  C6  U  Y  39     208.030  90.987   0.202  1.00 84.11      YASL
ATOM  51995  C2  U  Y  39     208.286  93.091   1.343  1.00 84.11      YASL
ATOM  51996  O2  U  Y  39     208.709  94.232   1.435  1.00 84.11      YASL
ATOM  51997  N3  U  Y  39     207.511  92.521   2.325  1.00 84.11      YASL
ATOM  51998  C4  U  Y  39     206.973  91.249   2.332  1.00 84.11      YASL
ATOM  51999  O4  U  Y  39     206.267  90.895   3.279  1.00 84.11      YASL
ATOM  52000  C5  U  Y  39     207.279  90.465   1.176  1.00 84.11      YASL
ATOM  52001  C2* U  Y  39     210.767  92.160  -0.839  1.00116.02      YASL
ATOM  52002  O2* U  Y  39     211.729  93.100  -1.277  1.00116.02      YASL
ATOM  52003  C3* U  Y  39     210.553  91.013  -1.820  1.00116.02      YASL
ATOM  52004  O3* U  Y  39     211.756  90.498  -2.374  1.00116.02      YASL
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ATOM  52005  P    C   Y  40     212.473  89.239  -1.671  1.00133.87      YASL
ATOM  52006  O1P  C   Y  40     213.404  88.667  -2.672  1.00133.96      YASL
ATOM  52007  O2P  C   Y  40     211.445  88.363  -1.045  1.00133.96      YASL
ATOM  52008  O5*  C   Y  40     213.330  89.903  -0.505  1.00133.87      YASL
ATOM  52009  C5*  C   Y  40     214.380  90.845  -0.808  1.00133.87      YASL
ATOM  52010  C4*  C   Y  40     214.809  91.572   0.443  1.00133.87      YASL
ATOM  52011  O4*  C   Y  40     213.696  92.366   0.933  1.00133.87      YASL
ATOM  52012  C1*  C   Y  40     213.684  92.351   2.350  1.00133.87      YASL
ATOM  52013  N1   C   Y  40     212.435  91.698   2.797  1.00133.96      YASL
ATOM  52014  C6   C   Y  40     211.917  90.633   2.111  1.00133.96      YASL
ATOM  52015  C2   C   Y  40     211.790  92.175   3.951  1.00133.96      YASL
ATOM  52016  O2   C   Y  40     212.266  93.152   4.555  1.00133.96      YASL
ATOM  52017  N3   C   Y  40     210.664  91.556   4.379  1.00133.96      YASL
ATOM  52018  C4   C   Y  40     210.179  90.511   3.706  1.00133.96      YASL
ATOM  52019  N4   C   Y  40     209.075  89.924   4.173  1.00133.96      YASL
ATOM  52020  C5   C   Y  40     210.805  90.016   2.526  1.00133.96      YASL
ATOM  52021  C2*  C   Y  40     214.929  91.588   2.815  1.00133.87      YASL
ATOM  52022  O2*  C   Y  40     215.989  92.493   3.065  1.00133.87      YASL
ATOM  52023  C3*  C   Y  40     215.197  90.686   1.618  1.00133.87      YASL
ATOM  52024  O3*  C   Y  40     216.548  90.240   1.556  1.00133.87      YASL
ATOM  52025  P    C   Y  41     216.931  88.785   2.129  1.00198.23      YASL
ATOM  52026  O1P  C   Y  41     218.377  88.581   1.866  1.00200.68      YASL
ATOM  52027  O2P  C   Y  41     215.946  87.793   1.620  1.00200.68      YASL
ATOM  52028  O5*  C   Y  41     216.721  88.923   3.703  1.00198.23      YASL
ATOM  52029  C5*  C   Y  41     217.525  89.833   4.482  1.00198.23      YASL
ATOM  52030  C4*  C   Y  41     217.047  89.863   5.917  1.00198.23      YASL
ATOM  52031  O4*  C   Y  41     215.693  90.384   5.962  1.00198.23      YASL
ATOM  52032  C1*  C   Y  41     214.961  89.728   6.986  1.00198.23      YASL
ATOM  52033  N1   C   Y  41     213.787  89.066   6.381  1.00200.68      YASL
ATOM  52034  C6   C   Y  41     213.843  88.556   5.111  1.00200.68      YASL
ATOM  52035  C2   C   Y  41     212.604  88.962   7.131  1.00200.68      YASL
ATOM  52036  O2   C   Y  41     212.574  89.428   8.282  1.00200.68      YASL
ATOM  52037  N3   C   Y  41     211.526  88.355   6.583  1.00200.68      YASL
ATOM  52038  C4   C   Y  41     211.594  87.863   5.343  1.00200.68      YASL
ATOM  52039  N4   C   Y  41     210.505  87.274   4.843  1.00200.68      YASL
ATOM  52040  C5   C   Y  41     212.782  87.953   4.560  1.00200.68      YASL
ATOM  52041  C2*  C   Y  41     215.906  88.752   7.691  1.00198.23      YASL
ATOM  52042  O2*  C   Y  41     216.415  89.353   8.866  1.00198.23      YASL
ATOM  52043  C3*  C   Y  41     216.968  88.516   6.620  1.00198.23      YASL
ATOM  52044  O3*  C   Y  41     218.224  88.137   7.175  1.00198.23      YASL
ATOM  52045  P    C   Y  42     218.646  86.584   7.212  1.00193.24      YASL
ATOM  52046  O1P  C   Y  42     220.115  86.544   7.412  1.00200.96      YASL
ATOM  52047  O2P  C   Y  42     218.047  85.893   6.039  1.00200.96      YASL
ATOM  52048  O5*  C   Y  42     217.946  86.015   8.527  1.00193.24      YASL
ATOM  52049  C5*  C   Y  42     218.302  86.513   9.834  1.00193.24      YASL
ATOM  52050  C4*  C   Y  42     217.592  85.721  10.908  1.00193.24      YASL
ATOM  52051  O4*  C   Y  42     216.159  85.842  10.724  1.00193.24      YASL
ATOM  52052  C1*  C   Y  42     215.525  84.630  11.104  1.00193.24      YASL
ATOM  52053  N1   C   Y  42     214.733  84.136   9.958  1.00200.96      YASL
ATOM  52054  C6   C   Y  42     215.317  83.920   8.738  1.00200.96      YASL
ATOM  52055  C2   C   Y  42     213.357  83.887  10.138  1.00200.96      YASL
ATOM  52056  O2   C   Y  42     212.842  84.090  11.253  1.00200.96      YASL
ATOM  52057  N3   C   Y  42     212.627  83.433   9.091  1.00200.96      YASL
ATOM  52058  C4   C   Y  42     213.211  83.226   7.907  1.00200.96      YASL
ATOM  52059  N4   C   Y  42     212.449  82.776   6.905  1.00200.96      YASL
ATOM  52060  C5   C   Y  42     214.602  83.470   7.697  1.00200.96      YASL
ATOM  52061  C2*  C   Y  42     216.607  83.660  11.591  1.00193.24      YASL
ATOM  52062  O2*  C   Y  42     216.680  83.732  13.001  1.00193.24      YASL
ATOM  52063  C3*  C   Y  42     217.845  84.222  10.905  1.00193.24      YASL
ATOM  52064  O3*  C   Y  42     219.147  83.769  11.294  1.00193.24      YASL
TER   52064       C   Y  42                                              YASL
ATOM  52065  O5*  U   Z   1     199.404 100.104  -8.627  1.00 77.84      ZU6M
ATOM  52066  C5*  U   Z   1     199.030  98.987  -9.456  1.00 77.84      ZU6M
ATOM  52067  C4*  U   Z   1     198.640  97.694  -8.758  1.00 77.84      ZU6M
ATOM  52068  O4*  U   Z   1     199.751  97.216  -7.962  1.00 77.84      ZU6M
ATOM  52069  C1*  U   Z   1     199.260  96.555  -6.807  1.00 77.84      ZU6M
ATOM  52070  N1   U   Z   1     199.774  97.246  -5.616  1.00 86.88      ZU6M
ATOM  52071  C6   U   Z   1     200.108  98.586  -5.645  1.00 86.88      ZU6M
ATOM  52072  C2   U   Z   1     199.896  96.508  -4.453  1.00 86.88      ZU6M
ATOM  52073  O2   U   Z   1     199.634  95.313  -4.391  1.00 86.88      ZU6M
ATOM  52074  N3   U   Z   1     200.341  97.219  -3.366  1.00 86.88      ZU6M
ATOM  52075  C4   U   Z   1     200.679  98.556  -3.327  1.00 86.88      ZU6M
ATOM  52076  O4   U   Z   1     201.050  99.052  -2.268  1.00 86.88      ZU6M
ATOM  52077  C5   U   Z   1     200.543  99.245  -4.570  1.00 86.88      ZU6M
ATOM  52078  C2*  U   Z   1     197.732  96.583  -6.855  1.00 77.84      ZU6M
ATOM  52079  O2*  U   Z   1     197.217  95.365  -7.346  1.00 77.84      ZU6M
ATOM  52080  C3*  U   Z   1     197.471  97.756  -7.786  1.00 77.84      ZU6M
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ATOM  52081  O3* U   Z   1     196.226  97.591  -8.438  1.00 77.84      ZU6M
ATOM  52082  P   U   Z   2     194.963  98.469  -7.973  1.00 68.01      ZU6M
ATOM  52083  O1P U   Z   2     194.166  98.694  -9.212  1.00 73.29      ZU6M
ATOM  52084  O2P U   Z   2     195.447  99.641  -7.190  1.00 73.29      ZU6M
ATOM  52085  O5* U   Z   2     194.123  97.503  -7.012  1.00 68.01      ZU6M
ATOM  52086  C5* U   Z   2     194.779  96.725  -6.002  1.00 68.01      ZU6M
ATOM  52087  C4* U   Z   2     193.806  96.268  -4.938  1.00 68.01      ZU6M
ATOM  52088  O4* U   Z   2     194.615  95.756  -3.843  1.00 68.01      ZU6M
ATOM  52089  C1* U   Z   2     194.197  96.324  -2.617  1.00 68.01      ZU6M
ATOM  52090  N1  U   Z   2     195.204  97.324  -2.206  1.00 73.29      ZU6M
ATOM  52091  C6  U   Z   2     195.808  98.157  -3.129  1.00 73.29      ZU6M
ATOM  52092  C2  U   Z   2     195.525  97.421  -0.863  1.00 73.29      ZU6M
ATOM  52093  O2  U   Z   2     195.050  96.693  -0.012  1.00 73.29      ZU6M
ATOM  52094  N3  U   Z   2     196.434  98.402  -0.555  1.00 73.29      ZU6M
ATOM  52095  C4  U   Z   2     197.058  99.268  -1.428  1.00 73.29      ZU6M
ATOM  52096  O4  U   Z   2     197.866 100.090  -0.997  1.00 73.29      ZU6M
ATOM  52097  C5  U   Z   2     196.696  99.095  -2.792  1.00 73.29      ZU6M
ATOM  52098  C2* U   Z   2     192.811  96.916  -2.868  1.00 68.01      ZU6M
ATOM  52099  O2* U   Z   2     191.852  95.901  -2.675  1.00 68.01      ZU6M
ATOM  52100  C3* U   Z   2     192.925  97.350  -4.324  1.00 68.01      ZU6M
ATOM  52101  O3* U   Z   2     191.653  97.370  -4.969  1.00 68.01      ZU6M
ATOM  52102  P   U   Z   3     190.730  98.692  -4.912  1.00 56.75      ZU6M
ATOM  52103  O1P U   Z   3     189.421  98.306  -5.490  1.00 80.96      ZU6M
ATOM  52104  O2P U   Z   3     191.482  99.836  -5.492  1.00 80.96      ZU6M
ATOM  52105  O5* U   Z   3     190.499  98.964  -3.361  1.00 56.75      ZU6M
ATOM  52106  C5* U   Z   3     189.609  98.135  -2.604  1.00 56.75      ZU6M
ATOM  52107  C4* U   Z   3     189.619  98.536  -1.152  1.00 56.75      ZU6M
ATOM  52108  O4* U   Z   3     190.925  98.272  -0.575  1.00 56.75      ZU6M
ATOM  52109  C1* U   Z   3     191.233  99.265   0.389  1.00 56.75      ZU6M
ATOM  52110  N1  U   Z   3     192.414 100.019  -0.074  1.00 80.96      ZU6M
ATOM  52111  C6  U   Z   3     192.782 100.010  -1.399  1.00 80.96      ZU6M
ATOM  52112  C2  U   Z   3     193.152 100.748   0.862  1.00 80.96      ZU6M
ATOM  52113  O2  U   Z   3     192.871 100.807   2.048  1.00 80.96      ZU6M
ATOM  52114  N3  U   Z   3     194.234 101.414   0.351  1.00 80.96      ZU6M
ATOM  52115  C4  U   Z   3     194.649 101.443  -0.960  1.00 80.96      ZU6M
ATOM  52116  O4  U   Z   3     195.642 102.104  -1.265  1.00 80.96      ZU6M
ATOM  52117  C5  U   Z   3     193.842 100.679  -1.859  1.00 80.96      ZU6M
ATOM  52118  C2* U   Z   3     189.995 100.146   0.528  1.00 56.75      ZU6M
ATOM  52119  O2* U   Z   3     189.160  99.597   1.537  1.00 56.75      ZU6M
ATOM  52120  C3* U   Z   3     189.381 100.005  -0.856  1.00 56.75      ZU6M
ATOM  52121  O3* U   Z   3     188.010 100.362  -0.890  1.00 56.75      ZU6M
ATOM  52122  P   U   Z   4     187.594 101.822  -1.416  1.00130.14      ZU6M
ATOM  52123  O1P U   Z   4     186.113 101.852  -1.502  1.00150.92      ZU6M
ATOM  52124  O2P U   Z   4     188.408 102.142  -2.619  1.00150.92      ZU6M
ATOM  52125  O5* U   Z   4     188.043 102.792  -0.236  1.00130.14      ZU6M
ATOM  52126  C5* U   Z   4     187.277 102.867   0.977  1.00130.14      ZU6M
ATOM  52127  C4* U   Z   4     187.770 104.000   1.843  1.00130.14      ZU6M
ATOM  52128  O4* U   Z   4     189.095 103.698   2.348  1.00130.14      ZU6M
ATOM  52129  C1* U   Z   4     189.809 104.910   2.541  1.00130.14      ZU6M
ATOM  52130  N1  U   Z   4     191.096 104.823   1.832  1.00150.92      ZU6M
ATOM  52131  C6  U   Z   4     191.167 104.417   0.517  1.00150.92      ZU6M
ATOM  52132  C2  U   Z   4     192.246 105.175   2.531  1.00150.92      ZU6M
ATOM  52133  O2  U   Z   4     192.238 105.521   3.703  1.00150.92      ZU6M
ATOM  52134  N3  U   Z   4     193.408 105.103   1.805  1.00150.92      ZU6M
ATOM  52135  C4  U   Z   4     193.543 104.721   0.487  1.00150.92      ZU6M
ATOM  52136  O4  U   Z   4     194.658 104.743  -0.038  1.00150.92      ZU6M
ATOM  52137  C5  U   Z   4     192.318 104.356  -0.159  1.00150.92      ZU6M
ATOM  52138  C2* U   Z   4     188.915 106.072   2.082  1.00130.14      ZU6M
ATOM  52139  O2* U   Z   4     188.288 106.656   3.207  1.00130.14      ZU6M
ATOM  52140  C3* U   Z   4     187.923 105.357   1.173  1.00130.14      ZU6M
ATOM  52141  O3* U   Z   4     186.751 106.063   0.733  1.00130.14      ZU6M
TER   52141       U   Z   4                                             ZU6M
HETATM52142  O1  PAR $   1     190.651  86.837 -10.323  1.00 59.66      $PAR
HETATM52143  C2  PAR $   1     189.785  87.802 -11.016  1.00 59.66      $PAR
HETATM52144  C3  PAR $   1     189.703  87.263  -8.080  1.00 59.66      $PAR
HETATM52145  C4  PAR $   1     191.014  87.131  -8.923  1.00 59.66      $PAR
HETATM52146  O5  PAR $   1     189.972  87.652  -6.737  1.00 59.66      $PAR
HETATM52147  O6  PAR $   1     187.526  88.404  -7.944  1.00 59.66      $PAR
HETATM52148  O7  PAR $   1     190.471  89.064 -11.207  1.00 59.66      $PAR
HETATM52149  N8  PAR $   1     187.511  88.928 -10.792  1.00 59.66      $PAR
HETATM52150  C9  PAR $   1     191.915  85.993  -8.423  1.00 59.66      $PAR
HETATM52151  O10 PAR $   1     193.095  85.924  -9.222  1.00 59.66      $PAR
HETATM52152  C11 PAR $   1     188.442  87.941 -10.204  1.00 59.66      $PAR
HETATM52153  C12 PAR $   1     188.744  88.309  -8.718  1.00 59.66      $PAR
HETATM52154  C13 PAR $   1     193.820  90.526 -12.378  1.00 59.66      $PAR
HETATM52155  C14 PAR $   1     193.262  91.172 -13.670  1.00 59.66      $PAR
HETATM52156  C15 PAR $   1     191.635  89.110 -12.099  1.00 59.66      $PAR
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HETATM52157  C16 PAR S   1     192.684  90.056 -11.438  1.00 59.66      $PAR
HETATM52158  O17 PAR S   1     190.448  88.640 -14.234  1.00 59.66      $PAR
HETATM52159  O18 PAR S   1     191.859  90.621 -15.593  1.00 59.66      $PAR
HETATM52160  N19 PAR S   1     193.334  89.433 -10.273  1.00 59.66      $PAR
HETATM52161  N20 PAR S   1     194.403  91.593 -14.500  1.00 59.66      $PAR
HETATM52162  C21 PAR S   1     192.386  90.111 -14.375  1.00 59.66      $PAR
HETATM52163  C22 PAR S   1     191.184  89.665 -13.494  1.00 59.66      $PAR
HETATM52164  C23 PAR S   1     186.951  88.148 -14.226  1.00 59.66      $PAR
HETATM52165  C24 PAR S   1     186.592  86.902 -13.439  1.00 59.66      $PAR
HETATM52166  O25 PAR S   1     188.174  88.667 -13.688  1.00 59.66      $PAR
HETATM52167  C26 PAR S   1     188.688  88.126 -15.915  1.00 59.66      $PAR
HETATM52168  C27 PAR S   1     187.175  87.951 -15.734  1.00 59.66      $PAR
HETATM52169  O28 PAR S   1     185.792  87.321 -12.346  1.00 59.66      $PAR
HETATM52170  O29 PAR S   1     189.037  88.756 -17.152  1.00 59.66      $PAR
HETATM52171  C30 PAR S   1     189.119  88.952 -14.717  1.00 59.66      $PAR
HETATM52172  O31 PAR S   1     186.415  88.994 -16.433  1.00 59.66      $PAR
HETATM52173  O32 PAR S   1     184.045  89.277 -16.121  1.00 59.66      $PAR
HETATM52174  C33 PAR S   1     185.092  88.665 -16.993  1.00 59.66      $PAR
HETATM52175  C34 PAR S   1     183.747  91.278 -17.534  1.00 59.66      $PAR
HETATM52176  C35 PAR S   1     183.904  90.753 -16.081  1.00 59.66      $PAR
HETATM52177  O36 PAR S   1     183.671  92.724 -17.507  1.00 59.66      $PAR
HETATM52178  O37 PAR S   1     184.724  91.213 -19.755  1.00 59.66      $PAR
HETATM52179  C38 PAR S   1     185.080  91.463 -15.304  1.00 59.66      $PAR
HETATM52180  N39 PAR S   1     185.884  88.648 -19.375  1.00 59.66      $PAR
HETATM52181  C40 PAR S   1     184.887  89.190 -18.438  1.00 59.66      $PAR
HETATM52182  C41 PAR S   1     184.904  90.733 -18.442  1.00 59.66      $PAR
HETATM52183  N42 PAR S   1     184.606  92.569 -14.418  1.00 59.66      $PAR
TER   52183      PAR S   1                                             $PAR
HETATM52184 MG   MG  U  23     234.454 113.568  -7.570  1.02 19.83      UION
HETATM52185 MG   MG  U  24     227.181 111.190  12.737  0.95 19.83      UION
HETATM52186 MG   MG  U  27     164.274 105.803  -6.365  0.94 19.83      UION
HETATM52187 MG   MG  U  34     172.363 114.071  -2.437  0.57 19.83      UION
HETATM52188 MG   MG  U  42     115.132  63.792  18.062  0.84 19.83      UION
HETATM52189 MG   MG  U  45     133.083 123.357 -59.463  0.90 19.83      UION
HETATM52190 MG   MG  U  48     170.623  94.692 -50.929  1.20 19.83      UION
HETATM52191 MG   MG  U  49     177.174  94.673 -53.768  0.96 19.83      UION
HETATM52192 MG   MG  U  50     179.603  87.066 -57.583  0.94 19.83      UION
HETATM52193 MG   MG  U  53     198.196  98.053 -54.727  1.03 19.83      UION
HETATM52194 MG   MG  U  54     161.777 106.478 -39.676  1.08 19.83      UION
HETATM52195 MG   MG  U  55     158.470 127.870 -45.960  1.06 19.83      UION
HETATM52196 MG   MG  U  59     167.214 108.743  16.301  0.97 19.83      UION
HETATM52197 MG   MG  U  60     149.713  99.581  -9.166  0.99 19.83      UION
HETATM52198 MG   MG  U  61     179.147 109.463  -2.911  0.82 19.83      UION
HETATM52199 MG   MG  U  63     158.123 106.187 -17.037  1.09 19.83      UION
HETATM52200 MG   MG  U  65     117.052 101.615 -27.324  0.84 19.83      UION
HETATM52201 MG   MG  U  68     164.939 127.351 -33.565  0.62 19.83      UION
HETATM52202 MG   MG  U  70     156.480 115.580 -16.748  0.97 19.83      UION
HETATM52203 MG   MG  U  71     160.138 131.480 -23.951  0.75 19.83      UION
HETATM52204 MG   MG  U  73     167.293  90.512 -13.437  0.90 19.83      UION
HETATM52205 MG   MG  U  75     222.026 126.396 -21.664  1.13 19.83      UION
HETATM52206 MG   MG  U  76     216.377 136.987 -13.254  0.76 19.83      UION
HETATM52207 MG   MG  U  79     231.639 139.162  -3.226  0.99 19.83      UION
HETATM52208 MG   MG  U  81     165.891 132.740  -8.352  0.82 19.83      UION
HETATM52209 MG   MG  U  82     125.527  95.240  26.302  0.72 19.83      UION
HETATM52210 MG   MG  U  86     129.464 111.702 -38.098  0.83 19.83      UION
HETATM52211 MG   MG  U  87     125.936 118.094 -58.032  0.66 19.83      UION
HETATM52212 MG   MG  U  90     208.025 110.893   8.947  0.88 19.83      UION
HETATM52213 MG   MG  U  91     230.697 108.235  28.830  0.49 19.83      UION
HETATM52214 MG   MG  U  92     231.669 121.574  25.752  0.77 19.83      UION
HETATM52215 MG   MG  U  95     200.918 115.784   9.393  0.94 19.83      UION
HETATM52216 MG   MG  U  96     202.038 112.073   6.640  0.96 19.83      UION
HETATM52217 MG   MG  U 113     147.131 102.329  -5.605  0.90 19.83      UION
HETATM52218 MG   MG  U 114     114.116  51.269 -12.542  0.79 19.83      UION
HETATM52219 MG   MG  U 118     167.970 105.028 -26.681  0.85 19.83      UION
HETATM52220 MG   MG  U 126     165.753  74.727 -44.163  0.56 19.83      UION
HETATM52221 MG   MG  U 130     203.978 143.819  -0.527  0.96 19.83      UION
HETATM52222 MG   MG  U 132     170.222 125.111 -17.582  0.98 19.83      UION
HETATM52223 MG   MG  U 133     196.665 137.136 -15.455  0.95 19.83      UION
HETATM52224 MG   MG  U 134     193.356 144.687  -6.962  0.79 19.83      UION
HETATM52225 MG   MG  U 136     143.697  72.891 -21.133  0.80 19.83      UION
HETATM52226 MG   MG  U 149     185.938 103.239 -42.878  0.77 19.83      UION
HETATM52227 MG   MG  U 150     184.393  97.052 -40.085  0.97 19.83      UION
HETATM52228 MG   MG  U 151     191.406 101.835 -32.447  1.12 19.83      UION
HETATM52229 MG   MG  U 152     194.754 103.184 -27.003  1.24 19.83      UION
HETATM52230 MG   MG  U 153     192.924 104.962 -31.923  0.85 19.83      UION
HETATM52231 MG   MG  U 160     115.360  25.802  -0.483  0.50 19.83      UION
HETATM52232 MG   MG  U 161      91.613  44.784 -14.464  0.90 19.83      UION
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HETATM52233 MG   MG  U 162      84.442  58.683 -17.820  0.62 19.83      UION
HETATM52234 MG   MG  U 167     144.019  70.373  -8.535  1.08 19.83      UION
HETATM52235 MG   MG  U 169     134.995  53.701   4.370  1.05 19.83      UION
HETATM52236 MG   MG  U 170     119.336  63.274  20.281  0.88 19.83      UION
HETATM52237 MG   MG  U 174     199.349  97.863 -48.955  1.01 19.83      UION
HETATM52238 MG   MG  U 178     195.932  91.699 -41.563  1.14 19.83      UION
HETATM52239 MG   MG  U 183     201.226 119.725  12.469  0.76 19.83      UION
HETATM52240 MG   MG  U 186     254.329 124.436  -4.332  0.83 19.83      UION
HETATM52241 MG   MG  U 201     147.014 105.769 -19.567  1.03 19.83      UION
HETATM52242 MG   MG  U 210     117.871  96.782  -9.843  0.71 19.83      UION
HETATM52243 MG   MG  U 211     140.078 100.369 -44.464  0.77 19.83      UION
HETATM52244 MG   MG  U 213     139.028 110.232 -19.584  0.68 19.83      UION
HETATM52245 MG   MG  U 214     147.096  90.487  25.617  0.69 19.83      UION
HETATM52246 MG   MG  U 215     136.153 109.803  13.119  0.71 19.83      UION
HETATM52247 MG   MG  U 216     172.680  92.586  16.216  0.93 19.83      UION
HETATM52248 MG   MG  U 217     155.609 101.616  44.620  0.78 19.83      UION
HETATM52249 MG   MG  U 218     177.258  97.594  20.314  0.62 19.83      UION
HETATM52250 MG   MG  U 219     172.748  97.950  14.005  0.65 19.83      UION
HETATM52251 MG   MG  U 220     185.575  96.482   4.495  0.77 19.83      UION
HETATM52252 MG   MG  U 223     123.954  79.715 -17.701  1.27 19.83      UION
HETATM52253 MG   MG  U 225     100.983  44.929  -3.899  0.71 19.83      UION
HETATM52254 MG   MG  U 226     125.788  53.697  -0.638  0.78 19.83      UION
HETATM52255 MG   MG  U 228     108.766  33.764  18.837  0.78 19.83      UION
HETATM52256 MG   MG  U 229     115.196  45.811   6.886  0.82 19.83      UION
HETATM52257 MG   MG  U 300     210.786 108.975  16.592  0.71 19.83      UION
HETATM52258 MG   MG  U 301     160.232 107.930 -10.168  0.88 19.83      UION
HETATM52259 MG   MG  U 302     112.297  61.480  25.030  0.95 19.83      UION
HETATM52260 MG   MG  U 400     189.010  96.989   2.321  1.02 19.83      UION
HETATM52261 MG   MG  U 402     161.304 130.946 -42.330  0.70 19.83      UION
HETATM52262 MG   MG  U 403     116.358 110.882 -35.265  0.60 19.83      UION
HETATM52263 MG   MG  U 404     112.016 110.129 -32.361  0.56 19.83      UION
HETATM52264 MG   MG  U 405     112.831  98.543 -21.593  0.58 19.83      UION
HETATM52265 MG   MG  U 406     167.473  90.761 -16.614  0.91 19.83      UION
HETATM52266 MG   MG  U 407     120.693  35.890 -22.240  0.48 19.83      UION
HETATM52267 MG   MG  U 408     200.075  94.972 -17.999  0.57 19.83      UION
HETATM52268 MG   MG  U 409     176.963 106.831 -14.037  0.63 19.83      UION
HETATM52269 MG   MG  U 410     195.222 141.778 -16.962  0.66 19.83      UION
HETATM52270 MG   MG  U 411     142.923  76.876 -24.111  0.48 19.83      UION
HETATM52271 MG   MG  U 412      85.969  55.639 -17.737  0.61 19.83      UION
HETATM52272 MG   MG  U 413     252.022 119.720 -17.432  0.83 19.83      UION
HETATM52273 MG   MG  U 414     123.014  88.676   1.536  0.97 19.83      UION
HETATM52274 MG   MG  U 415     148.540 104.143 -46.868  0.78 19.83      UION
HETATM52275 MG   MG  U 417     113.654  40.621  13.946  0.57 19.83      UION
HETATM52276 MG   MG  U 418     128.205  59.142  -8.400  0.77 19.83      UION
HETATM52277 MG   MG  U 419     135.940  54.223  -8.802  0.83 19.83      UION
HETATM52278 MG   MG  U 420      99.025  70.766  26.121  0.49 19.83      UION
HETATM52279 MG   MG  U 421     188.244 100.909  20.224  0.67 19.83      UION
HETATM52280 MG   MG  U 422     223.023 123.619   1.867  0.89 19.83      UION
HETATM52281 MG   MG  U 423     210.564 115.894  28.835  0.53 19.83      UION
HETATM52282 MG   MG  U 425     202.667 112.558  22.948  0.55 19.83      UION
HETATM52283 MG   MG  U 427     184.044 119.057 -17.307  0.72 19.83      UION
HETATM52284 MG   MG  U 428     186.614 125.712 -18.948  0.65 19.83      UION
HETATM52285 MG   MG  U 429     192.375 123.220 -21.081  0.97 19.83      UION
HETATM52286 MG   MG  U 430     180.431 115.092 -13.825  0.68 19.83      UION
HETATM52287 MG   MG  U 431     178.404 113.393 -19.222  0.58 19.83      UION
HETATM52288 MG   MG  U 435     177.524  70.918 -19.381  0.41 19.83      UION
HETATM52289 MG   MG  U 436     175.382  69.521 -20.892  0.80 19.83      UION
HETATM52290 MG   MG  U 438     174.158 104.980  44.588  0.54 19.83      UION
HETATM52291 MG   MG  U 439     175.103 107.822  43.524  0.55 19.83      UION
HETATM52292 MG   MG  U 440     203.446  94.571 -43.277  0.78 19.83      UION
HETATM52293 MG   MG  U 441     159.420 129.909 -48.726  0.53 19.83      UION
HETATM52294 MG   MG  U 442     157.573 136.659 -60.212  0.50 19.83      UION
HETATM52295 MG   MG  U 443     119.139 110.265 -37.244  0.67 19.83      UION
HETATM52296 MG   MG  U 444     124.999 111.071 -47.491  0.80 19.83      UION
HETATM52297 MG   MG  U 445     217.809 135.559 -23.081  0.55 19.83      UION
HETATM52298 MG   MG  U 446     203.974 124.311 -20.407  0.74 19.83      UION
HETATM52299 MG   MG  U 447     140.218  70.288  -7.758  0.90 19.83      UION
HETATM52300 MG   MG  U 448     121.947  91.466  10.117  0.61 19.83      UION
HETATM52301 MG   MG  U 449     221.850 124.867   8.156  0.85 19.83      UION
HETATM52302 MG   MG  U 450     159.908  62.965  10.086  0.70 19.83      UION
HETATM52303 MG   MG  U 451     148.084  61.892   5.901  0.82 19.83      UION
HETATM52304 MG   MG  U 452     143.593  56.590   0.026  1.06 19.83      UION
HETATM52305 MG   MG  U 453     144.885  67.365   2.152  0.78 19.83      UION
HETATM52306 MG   MG  U 454     140.541  59.480   9.915  0.74 19.83      UION
HETATM52307 MG   MG  U 455     139.379  76.272  23.135  0.77 19.83      UION
HETATM52308 ZN   ZN  U 306     155.407 112.140  39.227  0.85 19.83      UION
HETATM52309 ZN   ZN  U 307     213.826 126.939  24.028  0.69 19.83      UION
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END

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TABLE 3 - 30S and Paromomycin

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CRYST1  401.160  401.160  176.360  90.00  90.00  90.00 P 41 21 2      1
ORIGX1      1.000000  0.000000  0.000000        0.00000
ORIGX2      0.000000  1.000000  0.000000        0.00000
ORIGX3      0.000000  0.000000  1.000000        0.00000
SCALE1      0.002493  0.000000  0.000000        0.00000
SCALE2      0.000000  0.002493  0.000000        0.00000
SCALE3      0.000000  0.000000  0.005670        0.00000
ATOM      1  O5* U   A   5     134.043 110.878   1.907  1.00 40.61      A16S
ATOM      2  C5* U   A   5     134.067 110.373   3.266  1.00 40.61      A16S
ATOM      3  C4* U   A   5     135.383 110.483   4.034  1.00 40.61      A16S
ATOM      4  O4* U   A   5     135.501 111.803   4.644  1.00 40.61      A16S
ATOM      5  C1* U   A   5     135.742 111.674   6.034  1.00 40.61      A16S
ATOM      6  N1  U   A   5     135.039 112.752   6.753  1.00126.91      A16S
ATOM      7  C6  U   A   5     134.024 113.472   6.163  1.00126.91      A16S
ATOM      8  C2  U   A   5     135.432 113.025   8.058  1.00126.91      A16S
ATOM      9  O2  U   A   5     136.318 112.415   8.632  1.00126.91      A16S
ATOM     10  N3  U   A   5     134.743 114.039   8.671  1.00126.91      A16S
ATOM     11  C4  U   A   5     133.721 114.791   8.136  1.00126.91      A16S
ATOM     12  O4  U   A   5     133.175 115.649   8.832  1.00126.91      A16S
ATOM     13  C5  U   A   5     133.372 114.454   6.792  1.00126.91      A16S
ATOM     14  C2* U   A   5     135.268 110.277   6.422  1.00 40.61      A16S
ATOM     15  O2* U   A   5     135.951 109.833   7.579  1.00 40.61      A16S
ATOM     16  C3* U   A   5     135.598 109.472   5.167  1.00 40.61      A16S
ATOM     17  O3* U   A   5     136.983 109.114   5.213  1.00 40.61      A16S
ATOM     18  P   G   A   6     137.435 107.574   5.408  1.00 49.83      A16S
ATOM     19  O1P G   A   6     136.478 106.695   4.652  1.00 44.54      A16S
ATOM     20  O2P G   A   6     137.687 107.315   6.853  1.00 44.54      A16S
ATOM     21  O5* G   A   6     138.870 107.553   4.719  1.00 49.83      A16S
ATOM     22  C5* G   A   6     139.013 107.271   3.315  1.00 49.83      A16S
ATOM     23  C4* G   A   6     139.927 108.279   2.649  1.00 49.83      A16S
ATOM     24  O4* G   A   6     139.194 109.416   2.152  1.00 49.83      A16S
ATOM     25  C1* G   A   6     140.100 110.475   1.947  1.00 49.83      A16S
ATOM     26  N9  G   A   6     139.464 111.742   2.299  1.00 44.54      A16S
ATOM     27  C4  G   A   6     139.346 112.332   3.541  1.00 44.54      A16S
ATOM     28  N3  G   A   6     139.787 111.831   4.707  1.00 44.54      A16S
ATOM     29  C2  G   A   6     139.529 112.641   5.714  1.00 44.54      A16S
ATOM     30  N2  G   A   6     139.877 112.295   6.948  1.00 44.54      A16S
ATOM     31  N1  G   A   6     138.907 113.849   5.588  1.00 44.54      A16S
ATOM     32  C6  G   A   6     138.457 114.389   4.395  1.00 44.54      A16S
ATOM     33  O6  G   A   6     137.930 115.507   4.380  1.00 44.54      A16S
ATOM     34  C5  G   A   6     138.702 113.528   3.315  1.00 44.54      A16S
ATOM     35  N7  G   A   6     138.406 113.683   1.971  1.00 44.54      A16S
ATOM     36  C8  G   A   6     138.870 112.601   1.409  1.00 44.54      A16S
ATOM     37  C2* G   A   6     141.428 110.117   2.619  1.00 49.83      A16S
ATOM     38  O2* G   A   6     142.333 109.747   1.601  1.00 49.83      A16S
ATOM     39  C3* G   A   6     141.056 108.896   3.455  1.00 49.83      A16S
ATOM     40  O3* G   A   6     142.133 107.980   3.503  1.00 49.83      A16S
ATOM     41  P   G   A   7     143.533 108.407   4.164  1.00 39.64      A16S
ATOM     42  O1P G   A   7     143.417 109.627   4.981  1.00 36.73      A16S
ATOM     43  O2P G   A   7     144.051 107.161   4.793  1.00 36.73      A16S
ATOM     44  O5* G   A   7     144.417 108.801   2.903  1.00 39.64      A16S
ATOM     45  C5* G   A   7     145.430 107.909   2.410  1.00 39.64      A16S
ATOM     46  C4* G   A   7     146.349 108.642   1.481  1.00 39.64      A16S
ATOM     47  O4* G   A   7     145.616 109.016   0.315  1.00 39.64      A16S
ATOM     48  C1* G   A   7     146.309 110.056  -0.297  1.00 39.64      A16S
ATOM     49  N9  G   A   7     145.389 110.710  -1.205  1.00 36.73      A16S
ATOM     50  C4  G   A   7     145.592 110.923  -2.536  1.00 36.73      A16S
ATOM     51  N3  G   A   7     146.699 110.592  -3.226  1.00 36.73      A16S
ATOM     52  C2  G   A   7     146.595 110.912  -4.499  1.00 36.73      A16S
ATOM     53  N2  G   A   7     147.605 110.655  -5.338  1.00 36.73      A16S
ATOM     54  N1  G   A   7     145.489 111.509  -5.050  1.00 36.73      A16S
ATOM     55  C6  G   A   7     144.339 111.855  -4.350  1.00 36.73      A16S
ATOM     56  O6  G   A   7     143.390 112.386  -4.941  1.00 36.73      A16S
ATOM     57  C5  G   A   7     144.442 111.518  -2.988  1.00 36.73      A16S
ATOM     58  N7  G   A   7     143.537 111.687  -1.954  1.00 36.73      A16S
ATOM     59  C8  G   A   7     144.147 111.200  -0.914  1.00 36.73      A16S
ATOM     60  C2* G   A   7     146.850 110.932   0.828  1.00 39.64      A16S
ATOM     61  O2* G   A   7     148.116 111.404   0.457  1.00 39.64      A16S
ATOM     62  C3* G   A   7     146.846 109.969   2.023  1.00 39.64      A16S
ATOM     63  O3* G   A   7     147.989 109.872   2.911  1.00 39.64      A16S
ATOM     64  P   A   A   8     149.412 109.288   2.404  1.00 33.38      A16S
ATOM     65  O1P A   A   8     149.424 109.219   0.919  1.00 45.18      A16S
ATOM     66  O2P A   A   8     149.713 108.061   3.184  1.00 45.18      A16S
ATOM     67  O5* A   A   8     150.447 110.372   2.932  1.00 33.38      A16S
ATOM     68  C5* A   A   8     150.710 111.558   2.191  1.00 33.38      A16S
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ATOM	69	C4*	A	A	8	152.122	111.999	2.438	1.00	33.38	A16S
ATOM	70	O4*	A	A	8	152.230	112.492	3.796	1.00	33.38	A16S
ATOM	71	C1*	A	A	8	153.234	111.781	4.478	1.00	33.38	A16S
ATOM	72	N9	A	A	8	152.765	111.561	5.831	1.00	45.18	A16S
ATOM	73	C4	A	A	8	153.523	111.565	6.965	1.00	45.18	A16S
ATOM	74	N3	A	A	8	154.843	111.754	7.054	1.00	45.18	A16S
ATOM	75	C2	A	A	8	155.231	111.703	8.321	1.00	45.18	A16S
ATOM	76	N1	A	A	8	154.502	111.504	9.419	1.00	45.18	A16S
ATOM	77	C6	A	A	8	153.175	111.325	9.280	1.00	45.18	A16S
ATOM	78	N6	A	A	8	152.432	111.147	10.367	1.00	45.18	A16S
ATOM	79	C5	A	A	8	152.649	111.346	8.002	1.00	45.18	A16S
ATOM	80	N7	A	A	8	151.359	111.191	7.531	1.00	45.18	A16S
ATOM	81	C8	A	A	8	151.483	111.323	6.237	1.00	45.18	A16S
ATOM	82	C2*	A	A	8	153.432	110.473	3.725	1.00	33.38	A16S
ATOM	83	O2*	A	A	8	154.737	109.995	3.942	1.00	33.38	A16S
ATOM	84	C3*	A	A	8	153.166	110.897	2.288	1.00	33.38	A16S
ATOM	85	O3*	A	A	8	154.341	111.454	1.731	1.00	33.38	A16S
ATOM	86	P	G	A	9	154.581	111.355	0.154	1.00	20.61	A16S
ATOM	87	O1P	G	A	9	153.843	112.488	-0.494	1.00	27.56	A16S
ATOM	88	O2P	G	A	9	154.275	109.953	-0.229	1.00	27.56	A16S
ATOM	89	O5*	G	A	9	156.150	111.548	-0.019	1.00	20.61	A16S
ATOM	90	C5*	G	A	9	156.865	112.384	0.865	1.00	20.61	A16S
ATOM	91	C4*	G	A	9	157.544	111.569	1.939	1.00	20.61	A16S
ATOM	92	O4*	G	A	9	156.842	110.320	2.180	1.00	20.61	A16S
ATOM	93	C1*	G	A	9	157.752	109.363	2.705	1.00	20.61	A16S
ATOM	94	N9	G	A	9	157.797	108.191	1.835	1.00	27.56	A16S
ATOM	95	C4	G	A	9	158.537	107.054	2.067	1.00	27.56	A16S
ATOM	96	N3	G	A	9	159.296	106.818	3.146	1.00	27.56	A16S
ATOM	97	C2	G	A	9	159.886	105.645	3.081	1.00	27.56	A16S
ATOM	98	N2	G	A	9	160.660	105.238	4.087	1.00	27.56	A16S
ATOM	99	N1	G	A	9	159.762	104.779	2.036	1.00	27.56	A16S
ATOM	100	C6	G	A	9	159.000	105.004	0.907	1.00	27.56	A16S
ATOM	101	O6	G	A	9	158.977	104.168	0.014	1.00	27.56	A16S
ATOM	102	C5	G	A	9	158.335	106.252	0.967	1.00	27.56	A16S
ATOM	103	N7	G	A	9	157.462	106.856	0.067	1.00	27.56	A16S
ATOM	104	C8	G	A	9	157.162	108.000	0.627	1.00	27.56	A16S
ATOM	105	C2*	G	A	9	159.121	110.024	2.729	1.00	20.61	A16S
ATOM	106	O2*	G	A	9	159.311	110.625	3.987	1.00	20.61	A16S
ATOM	107	C3*	G	A	9	158.952	111.094	1.672	1.00	20.61	A16S
ATOM	108	O3*	G	A	9	159.906	112.113	1.833	1.00	20.61	A16S
ATOM	109	P	A	A	10	161.210	112.105	0.902	1.00	33.18	A16S
ATOM	110	O1P	A	A	10	161.600	113.533	0.811	1.00	37.07	A16S
ATOM	111	O2P	A	A	10	160.914	111.351	-0.351	1.00	37.07	A16S
ATOM	112	O5*	A	A	10	162.267	111.267	1.757	1.00	33.18	A16S
ATOM	113	C5*	A	A	10	162.495	111.582	3.148	1.00	33.18	A16S
ATOM	114	C4*	A	A	10	163.177	110.432	3.870	1.00	33.18	A16S
ATOM	115	O4*	A	A	10	162.314	109.266	3.913	1.00	33.18	A16S
ATOM	116	C1*	A	A	10	163.087	108.089	3.746	1.00	33.18	A16S
ATOM	117	N9	A	A	10	162.697	107.478	2.471	1.00	37.07	A16S
ATOM	118	C4	A	A	10	162.999	106.212	2.030	1.00	37.07	A16S
ATOM	119	N3	A	A	10	163.693	105.263	2.679	1.00	37.07	A16S
ATOM	120	C2	A	A	10	163.779	104.168	1.943	1.00	37.07	A16S
ATOM	121	N1	A	A	10	163.293	103.928	0.721	1.00	37.07	A16S
ATOM	122	C6	A	A	10	162.610	104.905	0.096	1.00	37.07	A16S
ATOM	123	N6	A	A	10	162.142	104.677	-1.130	1.00	37.07	A16S
ATOM	124	C5	A	A	10	162.438	106.111	0.774	1.00	37.07	A16S
ATOM	125	N7	A	A	10	161.788	107.284	0.430	1.00	37.07	A16S
ATOM	126	C8	A	A	10	161.968	108.060	1.463	1.00	37.07	A16S
ATOM	127	C2*	A	A	10	164.558	108.504	3.742	1.00	33.18	A16S
ATOM	128	O2*	A	A	10	165.094	108.391	5.042	1.00	33.18	A16S
ATOM	129	C3*	A	A	10	164.470	109.943	3.254	1.00	33.18	A16S
ATOM	130	O3*	A	A	10	165.556	110.722	3.698	1.00	33.18	A16S
ATOM	131	P	G	A	11	166.853	110.863	2.771	1.00	40.88	A16S
ATOM	132	O1P	G	A	11	167.749	111.846	3.465	1.00	38.32	A16S
ATOM	133	O2P	G	A	11	166.410	111.106	1.365	1.00	38.32	A16S
ATOM	134	O5*	G	A	11	167.524	109.426	2.847	1.00	40.88	A16S
ATOM	135	C5*	G	A	11	168.086	108.971	4.077	1.00	40.88	A16S
ATOM	136	C4*	G	A	11	168.813	107.676	3.869	1.00	40.88	A16S
ATOM	137	O4*	G	A	11	167.867	106.607	3.650	1.00	40.88	A16S
ATOM	138	C1*	G	A	11	168.389	105.692	2.707	1.00	40.88	A16S
ATOM	139	N9	G	A	11	167.517	105.742	1.541	1.00	38.32	A16S
ATOM	140	C4	G	A	11	167.284	104.747	0.632	1.00	38.32	A16S
ATOM	141	N3	G	A	11	167.821	103.514	0.649	1.00	38.32	A16S
ATOM	142	C2	G	A	11	167.395	102.779	-0.367	1.00	38.32	A16S
ATOM	143	N2	G	A	11	167.800	101.509	-0.501	1.00	38.32	A16S
ATOM	144	N1	G	A	11	166.532	103.225	-1.326	1.00	38.32	A16S
ATOM	145	C6	G	A	11	165.973	104.490	-1.365	1.00	38.32	A16S

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ATOM    146  O6  G   A  11     165.204 104.796  -2.288  1.00 38.32      A16S
ATOM    147  C5  G   A  11     166.403 105.282  -0.276  1.00 38.32      A16S
ATOM    148  N7  G   A  11     166.079 106.584   0.062  1.00 38.32      A16S
ATOM    149  C8  G   A  11     166.765 106.814   1.142  1.00 38.32      A16S
ATOM    150  C2* G   A  11     169.813 106.144   2.391  1.00 40.88      A16S
ATOM    151  O2* G   A  11     170.722 105.565   3.309  1.00 40.88      A16S
ATOM    152  C3* G   A  11     169.717 107.630   2.661  1.00 40.88      A16S
ATOM    153  O3* G   A  11     170.977 108.187   2.934  1.00 40.88      A16S
ATOM    154  P   U   A  12     171.789 108.868   1.740  1.00 34.79      A16S
ATOM    155  O1P U   A  12     173.055 109.330   2.335  1.00 39.82      A16S
ATOM    156  O2P U   A  12     170.917 109.832   1.023  1.00 39.82      A16S
ATOM    157  O5* U   A  12     172.064 107.656   0.744  1.00 34.79      A16S
ATOM    158  C5* U   A  12     172.901 106.541   1.134  1.00 34.79      A16S
ATOM    159  C4* U   A  12     172.952 105.502   0.031  1.00 34.79      A16S
ATOM    160  O4* U   A  12     171.660 104.855  -0.111  1.00 34.79      A16S
ATOM    161  C1* U   A  12     171.425 104.545  -1.469  1.00 34.79      A16S
ATOM    162  N1  U   A  12     170.209 105.244  -1.909  1.00 39.82      A16S
ATOM    163  C6  U   A  12     169.929 106.515  -1.485  1.00 39.82      A16S
ATOM    164  C2  U   A  12     169.366 104.585  -2.788  1.00 39.82      A16S
ATOM    165  O2  U   A  12     169.549 103.436  -3.157  1.00 39.82      A16S
ATOM    166  N3  U   A  12     168.294 105.317  -3.217  1.00 39.82      A16S
ATOM    167  C4  U   A  12     167.974 106.605  -2.857  1.00 39.82      A16S
ATOM    168  O4  U   A  12     167.015 107.173  -3.409  1.00 39.82      A16S
ATOM    169  C5  U   A  12     168.873 107.197  -1.912  1.00 39.82      A16S
ATOM    170  C2* U   A  12     172.656 104.979  -2.261  1.00 34.79      A16S
ATOM    171  O2* U   A  12     173.510 103.873  -2.428  1.00 34.79      A16S
ATOM    172  C3* U   A  12     173.254 106.039  -1.351  1.00 34.79      A16S
ATOM    173  O3* U   A  12     174.641 106.200  -1.548  1.00 34.79      A16S
ATOM    174  P   U   A  13     175.180 107.486  -2.344  1.00 36.99      A16S
ATOM    175  O1P U   A  13     176.323 108.003  -1.538  1.00 41.35      A16S
ATOM    176  O2P U   A  13     174.037 108.387  -2.661  1.00 41.35      A16S
ATOM    177  O5* U   A  13     175.751 106.891  -3.709  1.00 36.99      A16S
ATOM    178  C5* U   A  13     174.865 106.407  -4.733  1.00 36.99      A16S
ATOM    179  C4* U   A  13     175.649 105.998  -5.954  1.00 36.99      A16S
ATOM    180  O4* U   A  13     174.735 105.469  -6.962  1.00 36.99      A16S
ATOM    181  C1* U   A  13     174.945 106.146  -8.183  1.00 36.99      A16S
ATOM    182  N1  U   A  13     173.677 106.237  -8.927  1.00 41.35      A16S
ATOM    183  C6  U   A  13     172.815 107.276  -8.723  1.00 41.35      A16S
ATOM    184  C2  U   A  13     173.379 105.246  -9.849  1.00 41.35      A16S
ATOM    185  O2  U   A  13     174.108 104.308 -10.082  1.00 41.35      A16S
ATOM    186  N3  U   A  13     172.188 105.401 -10.499  1.00 41.35      A16S
ATOM    187  C4  U   A  13     171.285 106.422 -10.336  1.00 41.35      A16S
ATOM    188  O4  U   A  13     170.256 106.437 -11.006  1.00 41.35      A16S
ATOM    189  C5  U   A  13     171.663 107.399  -9.379  1.00 41.35      A16S
ATOM    190  C2* U   A  13     175.558 107.494  -7.811  1.00 36.99      A16S
ATOM    191  O2* U   A  13     176.285 107.991  -8.912  1.00 36.99      A16S
ATOM    192  C3* U   A  13     176.435 107.123  -6.620  1.00 36.99      A16S
ATOM    193  O3* U   A  13     177.675 106.616  -7.103  1.00 36.99      A16S
ATOM    194  P   U   A  14     179.058 107.055  -6.402  1.00 35.14      A16S
ATOM    195  O1P U   A  14     180.123 106.303  -7.111  1.00 59.56      A16S
ATOM    196  O2P U   A  14     178.919 106.914  -4.923  1.00 59.56      A16S
ATOM    197  O5* U   A  14     179.236 108.598  -6.762  1.00 35.14      A16S
ATOM    198  C5* U   A  14     179.612 108.978  -8.076  1.00 35.14      A16S
ATOM    199  C4* U   A  14     179.682 110.474  -8.205  1.00 35.14      A16S
ATOM    200  O4* U   A  14     178.371 111.052  -8.038  1.00 35.14      A16S
ATOM    201  C1* U   A  14     178.507 112.354  -7.497  1.00 35.14      A16S
ATOM    202  N1  U   A  14     177.828 112.399  -6.192  1.00 59.56      A16S
ATOM    203  C6  U   A  14     177.665 111.273  -5.417  1.00 59.56      A16S
ATOM    204  C2  U   A  14     177.369 113.620  -5.764  1.00 59.56      A16S
ATOM    205  O2  U   A  14     177.499 114.637  -6.414  1.00 59.56      A16S
ATOM    206  N3  U   A  14     176.759 113.609  -4.539  1.00 59.56      A16S
ATOM    207  C4  U   A  14     176.571 112.524  -3.713  1.00 59.56      A16S
ATOM    208  O4  U   A  14     176.031 112.686  -2.613  1.00 59.56      A16S
ATOM    209  C5  U   A  14     177.071 111.295  -4.226  1.00 59.56      A16S
ATOM    210  C2* U   A  14     180.003 112.644  -7.336  1.00 35.14      A16S
ATOM    211  O2* U   A  14     180.524 113.333  -8.461  1.00 35.14      A16S
ATOM    212  C3* U   A  14     180.577 111.243  -7.244  1.00 35.14      A16S
ATOM    213  O3* U   A  14     181.931 111.284  -7.666  1.00 35.14      A16S
ATOM    214  P   G   A  15     183.104 111.145  -6.581  1.00 41.13      A16S
ATOM    215  O1P G   A  15     184.363 111.069  -7.365  1.00 29.92      A16S
ATOM    216  O2P G   A  15     182.775 110.059  -5.615  1.00 29.92      A16S
ATOM    217  O5* G   A  15     183.091 112.528  -5.797  1.00 41.13      A16S
ATOM    218  C5* G   A  15     183.849 112.685  -4.583  1.00 41.13      A16S
ATOM    219  C4* G   A  15     183.847 114.129  -4.156  1.00 41.13      A16S
ATOM    220  O4* G   A  15     184.672 114.915  -5.048  1.00 41.13      A16S
ATOM    221  C1* G   A  15     184.027 116.136  -5.349  1.00 41.13      A16S
ATOM    222  N9  G   A  15     183.743 116.107  -6.778  1.00 29.92      A16S
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ATOM    223  C4   G   A  15     183.182 117.094  -7.561  1.00 29.92      A16S
ATOM    224  N3   G   A  15     182.772 118.309  -7.147  1.00 29.92      A16S
ATOM    225  C2   G   A  15     182.283 119.028  -8.154  1.00 29.92      A16S
ATOM    226  N2   G   A  15     181.844 120.285  -7.951  1.00 29.92      A16S
ATOM    227  N1   G   A  15     182.192 118.579  -9.443  1.00 29.92      A16S
ATOM    228  C6   G   A  15     182.609 117.334  -9.887  1.00 29.92      A16S
ATOM    229  O6   G   A  15     182.491 117.030 -11.075  1.00 29.92      A16S
ATOM    230  C5   G   A  15     183.140 116.561  -8.838  1.00 29.92      A16S
ATOM    231  N7   G   A  15     183.656 115.273  -8.857  1.00 29.92      A16S
ATOM    232  C8   G   A  15     184.001 115.048  -7.620  1.00 29.92      A16S
ATOM    233  C2*  G   A  15     182.789 116.228  -4.450  1.00 41.13      A16S
ATOM    234  O2*  G   A  15     183.156 116.849  -3.239  1.00 41.13      A16S
ATOM    235  C3*  G   A  15     182.474 114.762  -4.209  1.00 41.13      A16S
ATOM    236  O3*  G   A  15     181.796 114.510  -2.987  1.00 41.13      A16S
ATOM    237  P    A   A  16     180.328 113.858  -3.020  1.00 33.09      A16S
ATOM    238  O1P  A   A  16     179.969 113.454  -1.626  1.00 29.97      A16S
ATOM    239  O2P  A   A  16     180.316 112.827  -4.085  1.00 29.97      A16S
ATOM    240  O5*  A   A  16     179.428 115.095  -3.482  1.00 33.09      A16S
ATOM    241  C5*  A   A  16     179.275 116.223  -2.603  1.00 33.09      A16S
ATOM    242  C4*  A   A  16     178.945 117.485  -3.363  1.00 33.09      A16S
ATOM    243  O4*  A   A  16     179.933 117.724  -4.390  1.00 33.09      A16S
ATOM    244  C1*  A   A  16     179.334 118.439  -5.456  1.00 33.09      A16S
ATOM    245  N9   A   A  16     179.444 117.654  -6.683  1.00 29.97      A16S
ATOM    246  C4   A   A  16     179.036 118.104  -7.907  1.00 29.97      A16S
ATOM    247  N3   A   A  16     178.502 119.299  -8.182  1.00 29.97      A16S
ATOM    248  C2   A   A  16     178.217 119.389  -9.468  1.00 29.97      A16S
ATOM    249  N1   A   A  16     178.389 118.484 -10.438  1.00 29.97      A16S
ATOM    250  C6   A   A  16     178.917 117.291 -10.119  1.00 29.97      A16S
ATOM    251  N6   A   A  16     179.065 116.390 -11.081  1.00 29.97      A16S
ATOM    252  C5   A   A  16     179.270 117.074  -8.785  1.00 29.97      A16S
ATOM    253  N7   A   A  16     179.818 115.985  -8.128  1.00 29.97      A16S
ATOM    254  C8   A   A  16     179.911 116.382  -6.885  1.00 29.97      A16S
ATOM    255  C2*  A   A  16     177.865 118.660  -5.105  1.00 33.09      A16S
ATOM    256  O2*  A   A  16     177.724 119.949  -4.566  1.00 33.09      A16S
ATOM    257  C3*  A   A  16     177.621 117.550  -4.095  1.00 33.09      A16S
ATOM    258  O3*  A   A  16     176.568 117.880  -3.227  1.00 33.09      A16S
ATOM    259  P    U   A  17     175.124 117.246  -3.468  1.00 23.82      A16S
ATOM    260  O1P  U   A  17     174.178 117.868  -2.514  1.00 40.48      A16S
ATOM    261  O2P  U   A  17     175.290 115.776  -3.468  1.00 40.48      A16S
ATOM    262  O5*  U   A  17     174.727 117.802  -4.901  1.00 23.82      A16S
ATOM    263  C5*  U   A  17     174.548 119.200  -5.046  1.00 23.82      A16S
ATOM    264  C4*  U   A  17     173.965 119.553  -6.382  1.00 23.82      A16S
ATOM    265  O4*  U   A  17     174.947 119.387  -7.427  1.00 23.82      A16S
ATOM    266  C1*  U   A  17     174.277 119.157  -8.655  1.00 23.82      A16S
ATOM    267  N1   U   A  17     174.727 117.873  -9.213  1.00 40.48      A16S
ATOM    268  C6   U   A  17     175.438 116.967  -8.465  1.00 40.48      A16S
ATOM    269  C2   U   A  17     174.418 117.613 -10.529  1.00 40.48      A16S
ATOM    270  O2   U   A  17     173.729 118.349 -11.199  1.00 40.48      A16S
ATOM    271  N3   U   A  17     174.924 116.446 -11.022  1.00 40.48      A16S
ATOM    272  C4   U   A  17     175.655 115.517 -10.338  1.00 40.48      A16S
ATOM    273  O4   U   A  17     176.057 114.529 -10.927  1.00 40.48      A16S
ATOM    274  C5   U   A  17     175.894 115.825  -8.968  1.00 40.48      A16S
ATOM    275  C2*  U   A  17     172.776 119.164  -8.369  1.00 23.82      A16S
ATOM    276  O2*  U   A  17     172.245 120.463  -8.594  1.00 23.82      A16S
ATOM    277  C3*  U   A  17     172.750 118.810  -6.894  1.00 23.82      A16S
ATOM    278  O3*  U   A  17     171.542 119.254  -6.338  1.00 23.82      A16S
ATOM    279  P    C   A  18     170.352 118.210  -6.157  1.00 18.38      A16S
ATOM    280  O1P  C   A  18     169.447 118.815  -5.165  1.00 28.18      A16S
ATOM    281  O2P  C   A  18     170.929 116.861  -5.910  1.00 28.18      A16S
ATOM    282  O5*  C   A  18     169.613 118.176  -7.557  1.00 18.38      A16S
ATOM    283  C5*  C   A  18     168.848 119.282  -7.986  1.00 18.38      A16S
ATOM    284  C4*  C   A  18     168.550 119.146  -9.442  1.00 18.38      A16S
ATOM    285  O4*  C   A  18     169.802 119.146 -10.165  1.00 18.38      A16S
ATOM    286  C1*  C   A  18     169.720 118.247 -11.259  1.00 18.38      A16S
ATOM    287  N1   C   A  18     170.632 117.117 -11.029  1.00 28.18      A16S
ATOM    288  C6   C   A  18     171.076 116.817  -9.781  1.00 28.18      A16S
ATOM    289  C2   C   A  18     171.010 116.338 -12.117  1.00 28.18      A16S
ATOM    290  O2   C   A  18     170.603 116.649 -13.249  1.00 28.18      A16S
ATOM    291  N3   C   A  18     171.802 115.269 -11.916  1.00 28.18      A16S
ATOM    292  C4   C   A  18     172.219 114.978 -10.689  1.00 28.18      A16S
ATOM    293  N4   C   A  18     173.002 113.909 -10.525  1.00 28.18      A16S
ATOM    294  C5   C   A  18     171.857 115.767  -9.568  1.00 28.18      A16S
ATOM    295  C2*  C   A  18     168.293 117.719 -11.307  1.00 18.38      A16S
ATOM    296  O2*  C   A  18     167.554 118.528 -12.205  1.00 18.38      A16S
ATOM    297  C3*  C   A  18     167.893 117.837  -9.844  1.00 18.38      A16S
ATOM    298  O3*  C   A  18     166.496 117.844  -9.650  1.00 18.38      A16S
ATOM    299  P    C   A  19     165.763 116.512  -9.148  1.00 29.12      A16S
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ATOM    300  O1P C   A  19     164.377 116.918  -8.798  1.00 31.63      A16S
ATOM    301  O2P C   A  19     166.624 115.855  -8.134  1.00 31.63      A16S
ATOM    302  O5* C   A  19     165.697 115.611 -10.453  1.00 29.12      A16S
ATOM    303  C5* C   A  19     165.039 116.117 -11.615  1.00 29.12      A16S
ATOM    304  C4* C   A  19     165.375 115.297 -12.832  1.00 29.12      A16S
ATOM    305  O4* C   A  19     166.797 115.357 -13.120  1.00 29.12      A16S
ATOM    306  C1* C   A  19     167.198 114.164 -13.778  1.00 29.12      A16S
ATOM    307  N1   C   A  19     168.239 113.487 -12.970  1.00 31.63      A16S
ATOM    308  C6   C   A  19     168.386 113.762 -11.643  1.00 31.63      A16S
ATOM    309  C2   C   A  19     169.058 112.530 -13.579  1.00 31.63      A16S
ATOM    310  O2   C   A  19     168.964 112.348 -14.802  1.00 31.63      A16S
ATOM    311  N3   C   A  19     169.939 111.836 -12.820  1.00 31.63      A16S
ATOM    312  C4   C   A  19     170.037 112.086 -11.517  1.00 31.63      A16S
ATOM    313  N4   C   A  19     170.873 111.352 -10.795  1.00 31.63      A16S
ATOM    314  C5   C   A  19     169.268 113.092 -10.890  1.00 31.63      A16S
ATOM    315  C2* C   A  19     165.947 113.299 -13.931  1.00 29.12      A16S
ATOM    316  O2* C   A  19     165.360 113.571 -15.194  1.00 29.12      A16S
ATOM    317  C3* C   A  19     165.074 113.816 -12.796  1.00 29.12      A16S
ATOM    318  O3* C   A  19     163.718 113.542 -13.043  1.00 29.12      A16S
ATOM    319  P    U   A  20     163.102 112.172 -12.503  1.00 29.53      A16S
ATOM    320  O1P U   A  20     161.657 112.110 -12.817  1.00 33.45      A16S
ATOM    321  O2P U   A  20     163.570 112.007 -11.106  1.00 33.45      A16S
ATOM    322  O5* U   A  20     163.797 111.050 -13.386  1.00 29.53      A16S
ATOM    323  C5* U   A  20     163.513 110.928 -14.786  1.00 29.53      A16S
ATOM    324  C4* U   A  20     164.351 109.826 -15.380  1.00 29.53      A16S
ATOM    325  O4* U   A  20     165.747 110.133 -15.162  1.00 29.53      A16S
ATOM    326  C1* U   A  20     166.453 108.948 -14.855  1.00 29.53      A16S
ATOM    327  N1   U   A  20     167.030 109.096 -13.512  1.00 33.45      A16S
ATOM    328  C6   U   A  20     166.774 110.204 -12.751  1.00 33.45      A16S
ATOM    329  C2   U   A  20     167.837 108.079 -13.037  1.00 33.45      A16S
ATOM    330  O2   U   A  20     168.111 107.089 -13.691  1.00 33.45      A16S
ATOM    331  N3   U   A  20     168.316 108.270 -11.772  1.00 33.45      A16S
ATOM    332  C4   U   A  20     168.085 109.351 -10.958  1.00 33.45      A16S
ATOM    333  O4   U   A  20     168.536 109.355  -9.816  1.00 33.45      A16S
ATOM    334  C5   U   A  20     167.262 110.362 -11.530  1.00 33.45      A16S
ATOM    335  C2* U   A  20     165.483 107.773 -14.959  1.00 29.53      A16S
ATOM    336  O2* U   A  20     165.625 107.178 -16.232  1.00 29.53      A16S
ATOM    337  C3* U   A  20     164.145 108.464 -14.742  1.00 29.53      A16S
ATOM    338  O3* U   A  20     163.073 107.778 -15.369  1.00 29.53      A16S
ATOM    339  P    G   A  21     162.181 106.770 -14.512  1.00 23.22      A16S
ATOM    340  O1P G   A  21     161.307 106.041 -15.461  1.00 37.82      A16S
ATOM    341  O2P G   A  21     161.576 107.516 -13.394  1.00 37.82      A16S
ATOM    342  O5* G   A  21     163.265 105.786 -13.895  1.00 23.22      A16S
ATOM    343  C5* G   A  21     163.975 104.888 -14.755  1.00 23.22      A16S
ATOM    344  C4* G   A  21     164.909 103.999 -13.970  1.00 23.22      A16S
ATOM    345  O4* G   A  21     166.076 104.737 -13.554  1.00 23.22      A16S
ATOM    346  C1* G   A  21     166.542 104.226 -12.326  1.00 23.22      A16S
ATOM    347  N9   G   A  21     166.469 105.304 -11.349  1.00 37.82      A16S
ATOM    348  C4   G   A  21     167.166 105.404 -10.177  1.00 37.82      A16S
ATOM    349  N3   G   A  21     168.083 104.535  -9.732  1.00 37.82      A16S
ATOM    350  C2   G   A  21     168.592 104.911  -8.580  1.00 37.82      A16S
ATOM    351  N2   G   A  21     169.565 104.191  -8.014  1.00 37.82      A16S
ATOM    352  N1   G   A  21     168.202 106.029  -7.899  1.00 37.82      A16S
ATOM    353  C6   G   A  21     167.248 106.932  -8.335  1.00 37.82      A16S
ATOM    354  O6   G   A  21     166.957 107.910  -7.634  1.00 37.82      A16S
ATOM    355  C5   G   A  21     166.725 106.561  -9.586  1.00 37.82      A16S
ATOM    356  N7   G   A  21     165.790 107.193 -10.384  1.00 37.82      A16S
ATOM    357  C8   G   A  21     165.669 106.411 -11.419  1.00 37.82      A16S
ATOM    358  C2* G   A  21     165.656 103.031 -11.965  1.00 23.22      A16S
ATOM    359  O2* G   A  21     166.243 101.867 -12.504  1.00 23.22      A16S
ATOM    360  C3* G   A  21     164.374 103.359 -12.707  1.00 23.22      A16S
ATOM    361  O3* G   A  21     163.658 102.188 -13.031  1.00 23.22      A16S
ATOM    362  P    G   A  22     162.552 101.614 -12.017  1.00 30.08      A16S
ATOM    363  O1P G   A  22     161.643 100.752 -12.846  1.00 28.33      A16S
ATOM    364  O2P G   A  22     161.978 102.696 -11.167  1.00 28.33      A16S
ATOM    365  O5* G   A  22     163.379 100.638 -11.081  1.00 30.08      A16S
ATOM    366  C5* G   A  22     163.913  99.436 -11.625  1.00 30.08      A16S
ATOM    367  C4* G   A  22     165.045  98.942 -10.785  1.00 30.08      A16S
ATOM    368  O4* G   A  22     166.066  99.961 -10.677  1.00 30.08      A16S
ATOM    369  C1* G   A  22     166.736  99.816  -9.449  1.00 30.08      A16S
ATOM    370  N9   G   A  22     166.566 101.027  -8.661  1.00 28.33      A16S
ATOM    371  C4   G   A  22     167.437 101.478  -7.719  1.00 28.33      A16S
ATOM    372  N3   G   A  22     168.610 100.904  -7.401  1.00 28.33      A16S
ATOM    373  C2   G   A  22     169.223 101.540  -6.428  1.00 28.33      A16S
ATOM    374  N2   G   A  22     170.410 101.110  -5.994  1.00 28.33      A16S
ATOM    375  N1   G   A  22     168.721 102.651  -5.808  1.00 28.33      A16S
ATOM    376  C6   G   A  22     167.516 103.265  -6.120  1.00 28.33      A16S
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ATOM    377  O6  G   A  22     167.161 104.270  -5.491  1.00 28.33      A16S
ATOM    378  C5  G   A  22     166.848 102.592  -7.176  1.00 28.33      A16S
ATOM    379  N7  G   A  22     165.636 102.859  -7.794  1.00 28.33      A16S
ATOM    380  C8  G   A  22     165.513 101.906  -8.672  1.00 28.33      A16S
ATOM    381  C2* G   A  22     166.096  98.641  -8.718  1.00 30.08      A16S
ATOM    382  O2* G   A  22     166.837  97.485  -9.032  1.00 30.08      A16S
ATOM    383  C3* G   A  22     164.718  98.598  -9.350  1.00 30.08      A16S
ATOM    384  O3* G   A  22     164.142  97.312  -9.265  1.00 30.08      A16S
ATOM    385  P   C   A  23     163.392  96.866  -7.923  1.00 18.84      A16S
ATOM    386  O1P C   A  23     163.002  95.443  -8.082  1.00 29.86      A16S
ATOM    387  O2P C   A  23     162.359  97.873  -7.592  1.00 29.86      A16S
ATOM    388  O5* C   A  23     164.530  96.940  -6.826  1.00 18.84      A16S
ATOM    389  C5* C   A  23     165.647  96.086  -6.927  1.00 18.84      A16S
ATOM    390  C4* C   A  23     166.604  96.368  -5.823  1.00 18.84      A16S
ATOM    391  O4* C   A  23     167.172  97.686  -5.983  1.00 18.84      A16S
ATOM    392  C1* C   A  23     167.427  98.255  -4.711  1.00 18.84      A16S
ATOM    393  N1  C   A  23     166.648  99.502  -4.596  1.00 29.86      A16S
ATOM    394  C6  C   A  23     165.514  99.676  -5.327  1.00 29.86      A16S
ATOM    395  C2  C   A  23     167.092 100.509  -3.737  1.00 29.86      A16S
ATOM    396  O2  C   A  23     168.106 100.326  -3.068  1.00 29.86      A16S
ATOM    397  N3  C   A  23     166.404 101.658  -3.654  1.00 29.86      A16S
ATOM    398  C4  C   A  23     165.307 101.827  -4.386  1.00 29.86      A16S
ATOM    399  N4  C   A  23     164.657 103.000  -4.290  1.00 29.86      A16S
ATOM    400  C5  C   A  23     164.822 100.811  -5.256  1.00 29.86      A16S
ATOM    401  C2* C   A  23     167.028  97.208  -3.672  1.00 18.84      A16S
ATOM    402  O2* C   A  23     168.147  96.394  -3.335  1.00 18.84      A16S
ATOM    403  C3* C   A  23     165.997  96.413  -4.446  1.00 18.84      A16S
ATOM    404  O3* C   A  23     165.797  95.146  -3.895  1.00 18.84      A16S
ATOM    405  P   U   A  24     164.583  94.951  -2.895  1.00 32.39      A16S
ATOM    406  O1P U   A  24     164.565  93.554  -2.401  1.00 35.93      A16S
ATOM    407  O2P U   A  24     163.397  95.520  -3.571  1.00 35.93      A16S
ATOM    408  O5* U   A  24     164.982  95.889  -1.683  1.00 32.39      A16S
ATOM    409  C5* U   A  24     166.152  95.596  -0.939  1.00 32.39      A16S
ATOM    410  C4* U   A  24     166.330  96.596   0.151  1.00 32.39      A16S
ATOM    411  O4* U   A  24     166.622  97.887  -0.424  1.00 32.39      A16S
ATOM    412  C1* U   A  24     166.087  98.899   0.406  1.00 32.39      A16S
ATOM    413  N1  U   A  24     165.143  99.717  -0.370  1.00 35.93      A16S
ATOM    414  C6  U   A  24     164.663  99.310  -1.582  1.00 35.93      A16S
ATOM    415  C2  U   A  24     164.735 100.915   0.189  1.00 35.93      A16S
ATOM    416  O2  U   A  24     165.165 101.324   1.244  1.00 35.93      A16S
ATOM    417  N3  U   A  24     163.812 101.614  -0.535  1.00 35.93      A16S
ATOM    418  C4  U   A  24     163.273 101.255  -1.742  1.00 35.93      A16S
ATOM    419  O4  U   A  24     162.425 101.976  -2.265  1.00 35.93      A16S
ATOM    420  C5  U   A  24     163.765 100.017  -2.271  1.00 35.93      A16S
ATOM    421  C2* U   A  24     165.390  98.210   1.582  1.00 32.39      A16S
ATOM    422  O2* U   A  24     166.263  98.153   2.695  1.00 32.39      A16S
ATOM    423  C3* U   A  24     165.105  96.837   1.003  1.00 32.39      A16S
ATOM    424  O3* U   A  24     164.942  95.853   2.001  1.00 32.39      A16S
ATOM    425  P   C   A  25     163.482  95.576   2.603  1.00 35.04      A16S
ATOM    426  O1P C   A  25     163.603  94.329   3.379  1.00 25.21      A16S
ATOM    427  O2P C   A  25     162.427  95.686   1.573  1.00 25.21      A16S
ATOM    428  O5* C   A  25     163.293  96.776   3.614  1.00 35.04      A16S
ATOM    429  C5* C   A  25     164.175  96.912   4.717  1.00 35.04      A16S
ATOM    430  C4* C   A  25     163.838  98.145   5.495  1.00 35.04      A16S
ATOM    431  O4* C   A  25     164.091  99.303   4.667  1.00 35.04      A16S
ATOM    432  C1* C   A  25     163.145 100.309   4.963  1.00 35.04      A16S
ATOM    433  N1  C   A  25     162.390 100.624   3.743  1.00 25.21      A16S
ATOM    434  C6  C   A  25     162.182  99.676   2.781  1.00 25.21      A16S
ATOM    435  C2  C   A  25     161.874 101.921   3.583  1.00 25.21      A16S
ATOM    436  O2  C   A  25     162.106 102.785   4.468  1.00 25.21      A16S
ATOM    437  N3  C   A  25     161.147 102.202   2.466  1.00 25.21      A16S
ATOM    438  C4  C   A  25     160.951 101.257   1.539  1.00 25.21      A16S
ATOM    439  N4  C   A  25     160.235 101.568   0.462  1.00 25.21      A16S
ATOM    440  C5  C   A  25     161.481  99.949   1.676  1.00 25.21      A16S
ATOM    441  C2* C   A  25     162.242  99.784   6.077  1.00 35.04      A16S
ATOM    442  O2* C   A  25     162.768 100.225   7.311  1.00 35.04      A16S
ATOM    443  C3* C   A  25     162.383  98.281   5.901  1.00 35.04      A16S
ATOM    444  O3* C   A  25     162.068  97.556   7.083  1.00 35.04      A16S
ATOM    445  P   A   A  26     160.535  97.170   7.384  1.00 38.57      A16S
ATOM    446  O1P A   A  26     160.531  96.185   8.501  1.00 36.05      A16S
ATOM    447  O2P A   A  26     159.829  96.831   6.113  1.00 36.05      A16S
ATOM    448  O5* A   A  26     159.926  98.540   7.916  1.00 38.57      A16S
ATOM    449  C5* A   A  26     160.410  99.125   9.128  1.00 38.57      A16S
ATOM    450  C4* A   A  26     159.766 100.468   9.358  1.00 38.57      A16S
ATOM    451  O4* A   A  26     160.098 101.351   8.264  1.00 38.57      A16S
ATOM    452  C1* A   A  26     159.039 102.257   8.051  1.00 38.57      A16S
ATOM    453  N9  A   A  26     158.622 102.174   6.651  1.00 36.05      A16S
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ATOM    454  C4   A   A  26     158.185 103.227   5.897  1.00 36.05      A16S
ATOM    455  N3   A   A  26     158.089 104.503   6.278  1.00 36.05      A16S
ATOM    456  C2   A   A  26     157.607 105.245   5.288  1.00 36.05      A16S
ATOM    457  N1   A   A  26     157.237 104.879   4.059  1.00 36.05      A16S
ATOM    458  C6   A   A  26     157.343 103.583   3.717  1.00 36.05      A16S
ATOM    459  N6   A   A  26     156.952 103.212   2.502  1.00 36.05      A16S
ATOM    460  C5   A   A  26     157.849 102.700   4.668  1.00 36.05      A16S
ATOM    461  N7   A   A  26     158.096 101.340   4.631  1.00 36.05      A16S
ATOM    462  C8   A   A  26     158.557 101.076   5.827  1.00 36.05      A16S
ATOM    463  C2*  A   A  26     157.935 101.936   9.062  1.00 38.57      A16S
ATOM    464  O2*  A   A  26     158.119 102.781  10.171  1.00 38.57      A16S
ATOM    465  C3*  A   A  26     158.250 100.499   9.449  1.00 38.57      A16S
ATOM    466  O3*  A   A  26     157.857 100.272  10.800  1.00 38.57      A16S
ATOM    467  P    G   A  27     156.695  99.212  11.146  1.00 44.80      A16S
ATOM    468  O1P  G   A  27     156.360  99.473  12.567  1.00 50.92      A16S
ATOM    469  O2P  G   A  27     157.094  97.843  10.733  1.00 50.92      A16S
ATOM    470  O5*  G   A  27     155.453  99.680  10.269  1.00 44.80      A16S
ATOM    471  C5*  G   A  27     154.709 100.852  10.635  1.00 44.80      A16S
ATOM    472  C4*  G   A  27     153.377 100.860   9.934  1.00 44.80      A16S
ATOM    473  O4*  G   A  27     153.593 100.936   8.502  1.00 44.80      A16S
ATOM    474  C1*  G   A  27     152.631 100.139   7.831  1.00 44.80      A16S
ATOM    475  N9   G   A  27     153.328  99.029   7.185  1.00 50.92      A16S
ATOM    476  C4   G   A  27     152.821  98.182   6.229  1.00 50.92      A16S
ATOM    477  N3   G   A  27     151.595  98.253   5.678  1.00 50.92      A16S
ATOM    478  C2   G   A  27     151.386  97.277   4.816  1.00 50.92      A16S
ATOM    479  N2   G   A  27     150.210  97.199   4.171  1.00 50.92      A16S
ATOM    480  N1   G   A  27     152.309  96.307   4.523  1.00 50.92      A16S
ATOM    481  C6   G   A  27     153.576  96.218   5.083  1.00 50.92      A16S
ATOM    482  O6   G   A  27     154.329  95.289   4.767  1.00 50.92      A16S
ATOM    483  C5   G   A  27     153.813  97.261   5.995  1.00 50.92      A16S
ATOM    484  N7   G   A  27     154.933  97.541   6.755  1.00 50.92      A16S
ATOM    485  C8   G   A  27     154.603  98.600   7.441  1.00 50.92      A16S
ATOM    486  C2*  G   A  27     151.660  99.621   8.890  1.00 44.80      A16S
ATOM    487  O2*  G   A  27     150.597 100.531   9.040  1.00 44.80      A16S
ATOM    488  C3*  G   A  27     152.543  99.609  10.120  1.00 44.80      A16S
ATOM    489  O3*  G   A  27     151.778  99.646  11.300  1.00 44.80      A16S
ATOM    490  P    G   A  28     151.459  98.274  12.076  1.00 41.84      A16S
ATOM    491  O1P  G   A  28     150.789  98.720  13.332  1.00 36.75      A16S
ATOM    492  O2P  G   A  28     152.700  97.440  12.154  1.00 36.75      A16S
ATOM    493  O5*  G   A  28     150.408  97.515  11.142  1.00 41.84      A16S
ATOM    494  C5*  G   A  28     149.158  98.130  10.828  1.00 41.84      A16S
ATOM    495  C4*  G   A  28     148.435  97.390   9.727  1.00 41.84      A16S
ATOM    496  O4*  G   A  28     149.138  97.500   8.462  1.00 41.84      A16S
ATOM    497  C1*  G   A  28     148.850  96.362   7.652  1.00 41.84      A16S
ATOM    498  N9   G   A  28     150.092  95.633   7.405  1.00 36.75      A16S
ATOM    499  C4   G   A  28     150.299  94.606   6.499  1.00 36.75      A16S
ATOM    500  N3   G   A  28     149.391  94.096   5.635  1.00 36.75      A16S
ATOM    501  C2   G   A  28     149.899  93.109   4.906  1.00 36.75      A16S
ATOM    502  N2   G   A  28     149.152  92.499   3.992  1.00 36.75      A16S
ATOM    503  N1   G   A  28     151.181  92.652   5.019  1.00 36.75      A16S
ATOM    504  C6   G   A  28     152.134  93.156   5.898  1.00 36.75      A16S
ATOM    505  O6   G   A  28     153.275  92.670   5.928  1.00 36.75      A16S
ATOM    506  C5   G   A  28     151.611  94.223   6.682  1.00 36.75      A16S
ATOM    507  N7   G   A  28     152.222  95.000   7.660  1.00 36.75      A16S
ATOM    508  C8   G   A  28     151.287  95.819   8.054  1.00 36.75      A16S
ATOM    509  C2*  G   A  28     147.872  95.504   8.443  1.00 41.84      A16S
ATOM    510  O2*  G   A  28     146.558  95.895   8.092  1.00 41.84      A16S
ATOM    511  C3*  G   A  28     148.217  95.901   9.871  1.00 41.84      A16S
ATOM    512  O3*  G   A  28     147.189  95.571  10.761  1.00 41.84      A16S
ATOM    513  P    G   A  29     147.338  94.250  11.648  1.00 41.74      A16S
ATOM    514  O1P  G   A  29     146.131  94.153  12.511  1.00 38.48      A16S
ATOM    515  O2P  G   A  29     148.700  94.259  12.261  1.00 38.48      A16S
ATOM    516  O5*  G   A  29     147.240  93.074  10.585  1.00 41.74      A16S
ATOM    517  C5*  G   A  29     146.090  92.987   9.747  1.00 41.74      A16S
ATOM    518  C4*  G   A  29     146.251  91.900   8.723  1.00 41.74      A16S
ATOM    519  O4*  G   A  29     147.337  92.200   7.818  1.00 41.74      A16S
ATOM    520  C1*  G   A  29     147.857  90.994   7.297  1.00 41.74      A16S
ATOM    521  N9   G   A  29     149.290  90.915   7.569  1.00 38.48      A16S
ATOM    522  C4   G   A  29     150.179  90.073   6.953  1.00 38.48      A16S
ATOM    523  N3   G   A  29     149.887  89.190   5.982  1.00 38.48      A16S
ATOM    524  C2   G   A  29     150.955  88.534   5.576  1.00 38.48      A16S
ATOM    525  N2   G   A  29     150.857  87.646   4.586  1.00 38.48      A16S
ATOM    526  N1   G   A  29     152.200  88.710   6.099  1.00 38.48      A16S
ATOM    527  C6   G   A  29     152.521  89.610   7.104  1.00 38.48      A16S
ATOM    528  O6   G   A  29     153.685  89.694   7.506  1.00 38.48      A16S
ATOM    529  C5   G   A  29     151.392  90.333   7.534  1.00 38.48      A16S
ATOM    530  N7   G   A  29     151.276  91.321   8.496  1.00 38.48      A16S
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ATOM    531  C8  G   A  29     150.012  91.637   8.481  1.00 38.48      A16S
ATOM    532  C2* G   A  29     147.086  89.854   7.953  1.00 41.74      A16S
ATOM    533  O2* G   A  29     146.016  89.535   7.093  1.00 41.74      A16S
ATOM    534  C3* G   A  29     146.573  90.512   9.219  1.00 41.74      A16S
ATOM    535  O3* G   A  29     145.408  89.868   9.663  1.00 41.74      A16S
ATOM    536  P   U   A  30     145.524  88.658  10.705  1.00 43.75      A16S
ATOM    537  O1P U   A  30     144.129  88.199  10.940  1.00 41.85      A16S
ATOM    538  O2P U   A  30     146.379  89.050  11.865  1.00 41.85      A16S
ATOM    539  O5* U   A  30     146.265  87.528   9.870  1.00 43.75      A16S
ATOM    540  C5* U   A  30     145.659  86.975   8.685  1.00 43.75      A16S
ATOM    541  C4* U   A  30     146.371  85.705   8.276  1.00 43.75      A16S
ATOM    542  O4* U   A  30     147.740  86.014   7.921  1.00 43.75      A16S
ATOM    543  C1* U   A  30     148.616  85.279   8.733  1.00 43.75      A16S
ATOM    544  N1  U   A  30     149.799  86.107   9.003  1.00 41.85      A16S
ATOM    545  C6  U   A  30     149.709  87.295   9.664  1.00 41.85      A16S
ATOM    546  C2  U   A  30     151.017  85.628   8.579  1.00 41.85      A16S
ATOM    547  O2  U   A  30     151.134  84.605   7.922  1.00 41.85      A16S
ATOM    548  N3  U   A  30     152.097  86.394   8.933  1.00 41.85      A16S
ATOM    549  C4  U   A  30     152.079  87.568   9.628  1.00 41.85      A16S
ATOM    550  O4  U   A  30     153.137  88.069   9.988  1.00 41.85      A16S
ATOM    551  C5  U   A  30     150.779  88.026   9.978  1.00 41.85      A16S
ATOM    552  C2* U   A  30     147.811  84.860   9.964  1.00 43.75      A16S
ATOM    553  O2* U   A  30     148.349  83.704  10.570  1.00 43.75      A16S
ATOM    554  C3* U   A  30     146.433  84.636   9.356  1.00 43.75      A16S
ATOM    555  O3* U   A  30     146.404  83.368   8.711  1.00 43.75      A16S
ATOM    556  P   G   A  31     145.023  82.795   8.119  1.00 36.37      A16S
ATOM    557  O1P G   A  31     145.279  82.416   6.705  1.00 45.36      A16S
ATOM    558  O2P G   A  31     143.897  83.718   8.440  1.00 45.36      A16S
ATOM    559  O5* G   A  31     144.789  81.473   8.961  1.00 36.37      A16S
ATOM    560  C5* G   A  31     144.209  81.539  10.265  1.00 36.37      A16S
ATOM    561  C4* G   A  31     144.458  80.253  10.980  1.00 36.37      A16S
ATOM    562  O4* G   A  31     144.046  79.186  10.092  1.00 36.37      A16S
ATOM    563  C1* G   A  31     145.144  78.352   9.804  1.00 36.37      A16S
ATOM    564  N9  G   A  31     145.035  77.945   8.408  1.00 45.36      A16S
ATOM    565  C4  G   A  31     144.912  76.660   7.942  1.00 45.36      A16S
ATOM    566  N3  G   A  31     144.890  75.549   8.690  1.00 45.36      A16S
ATOM    567  C2  G   A  31     144.754  74.473   7.957  1.00 45.36      A16S
ATOM    568  N2  G   A  31     144.726  73.282   8.529  1.00 45.36      A16S
ATOM    569  N1  G   A  31     144.644  74.479   6.605  1.00 45.36      A16S
ATOM    570  C6  G   A  31     144.682  75.609   5.809  1.00 45.36      A16S
ATOM    571  O6  G   A  31     144.616  75.499   4.581  1.00 45.36      A16S
ATOM    572  C5  G   A  31     144.816  76.774   6.576  1.00 45.36      A16S
ATOM    573  N7  G   A  31     144.880  78.103   6.184  1.00 45.36      A16S
ATOM    574  C8  G   A  31     145.015  78.761   7.304  1.00 45.36      A16S
ATOM    575  C2* G   A  31     146.401  79.148  10.145  1.00 36.37      A16S
ATOM    576  O2* G   A  31     147.435  78.286  10.559  1.00 36.37      A16S
ATOM    577  C3* G   A  31     145.919  80.000  11.307  1.00 36.37      A16S
ATOM    578  O3* G   A  31     145.966  79.206  12.473  1.00 36.37      A16S
ATOM    579  P   A   A  32     146.844  79.669  13.724  1.00 41.83      A16S
ATOM    580  O1P A   A  32     147.197  78.426  14.452  1.00 41.37      A16S
ATOM    581  O2P A   A  32     146.117  80.769  14.421  1.00 41.37      A16S
ATOM    582  O5* A   A  32     148.177  80.248  13.092  1.00 41.83      A16S
ATOM    583  C5* A   A  32     149.444  79.836  13.578  1.00 41.83      A16S
ATOM    584  C4* A   A  32     150.211  79.161  12.479  1.00 41.83      A16S
ATOM    585  O4* A   A  32     150.388  80.085  11.376  1.00 41.83      A16S
ATOM    586  C1* A   A  32     151.709  79.990  10.881  1.00 41.83      A16S
ATOM    587  N9  A   A  32     152.359  81.288  11.105  1.00 41.37      A16S
ATOM    588  C4  A   A  32     153.649  81.668  10.797  1.00 41.37      A16S
ATOM    589  N3  A   A  32     154.613  80.925  10.234  1.00 41.37      A16S
ATOM    590  C2  A   A  32     155.720  81.640  10.070  1.00 41.37      A16S
ATOM    591  N1  A   A  32     155.957  82.915  10.375  1.00 41.37      A16S
ATOM    592  C6  A   A  32     154.972  83.636  10.937  1.00 41.37      A16S
ATOM    593  N6  A   A  32     155.206  84.912  11.231  1.00 41.37      A16S
ATOM    594  C5  A   A  32     153.752  82.996  11.174  1.00 41.37      A16S
ATOM    595  N7  A   A  32     152.563  83.443  11.723  1.00 41.37      A16S
ATOM    596  C8  A   A  32     151.773  82.397  11.662  1.00 41.37      A16S
ATOM    597  C2* A   A  32     152.372  78.801  11.582  1.00 41.83      A16S
ATOM    598  O2* A   A  32     152.159  77.634  10.812  1.00 41.83      A16S
ATOM    599  C3* A   A  32     151.609  78.760  12.897  1.00 41.83      A16S
ATOM    600  O3* A   A  32     151.588  77.485  13.534  1.00 41.83      A16S
ATOM    601  P   A   A  33     152.239  77.320  14.999  1.00 48.85      A16S
ATOM    602  O1P A   A  33     151.560  76.185  15.698  1.00 42.66      A16S
ATOM    603  O2P A   A  33     152.273  78.656  15.651  1.00 42.66      A16S
ATOM    604  O5* A   A  33     153.759  76.934  14.691  1.00 48.85      A16S
ATOM    605  C5* A   A  33     154.103  75.926  13.709  1.00 48.85      A16S
ATOM    606  C4* A   A  33     155.444  76.242  13.083  1.00 48.85      A16S
ATOM    607  O4* A   A  33     155.317  77.415  12.249  1.00 48.85      A16S
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ATOM	608	C1*	A	A	33	156.473	78.224	12.377	1.00	48.85	A16S
ATOM	609	N9	A	A	33	156.064	79.528	12.904	1.00	42.66	A16S
ATOM	610	C4	A	A	33	156.848	80.650	12.968	1.00	42.66	A16S
ATOM	611	N3	A	A	33	158.127	80.767	12.589	1.00	42.66	A16S
ATOM	612	C2	A	A	33	158.564	82.002	12.804	1.00	42.66	A16S
ATOM	613	N1	A	A	33	157.916	83.051	13.311	1.00	42.66	A16S
ATOM	614	C6	A	A	33	156.629	82.898	13.672	1.00	42.66	A16S
ATOM	615	N6	A	A	33	155.981	83.942	14.164	1.00	42.66	A16S
ATOM	616	C5	A	A	33	156.050	81.641	13.504	1.00	42.66	A16S
ATOM	617	N7	A	A	33	154.784	81.159	13.783	1.00	42.66	A16S
ATOM	618	C8	A	A	33	154.843	79.901	13.417	1.00	42.66	A16S
ATOM	619	C2*	A	A	33	157.462	77.497	13.283	1.00	48.85	A16S
ATOM	620	O2*	A	A	33	158.400	76.786	12.506	1.00	48.85	A16S
ATOM	621	C3*	A	A	33	156.535	76.592	14.077	1.00	48.85	A16S
ATOM	622	O3*	A	A	33	157.192	75.442	14.575	1.00	48.85	A16S
ATOM	623	P	C	A	34	157.709	75.430	16.098	1.00	29.76	A16S
ATOM	624	O1P	C	A	34	158.135	74.028	16.377	1.00	50.94	A16S
ATOM	625	O2P	C	A	34	156.667	76.062	16.970	1.00	50.94	A16S
ATOM	626	O5*	C	A	34	158.994	76.375	16.069	1.00	29.76	A16S
ATOM	627	C5*	C	A	34	160.202	75.926	15.475	1.00	29.76	A16S
ATOM	628	C4*	C	A	34	161.221	77.013	15.517	1.00	29.76	A16S
ATOM	629	O4*	C	A	34	160.742	78.134	14.742	1.00	29.76	A16S
ATOM	630	C1*	C	A	34	161.157	79.348	15.349	1.00	29.76	A16S
ATOM	631	N1	C	A	34	159.959	80.134	15.689	1.00	50.94	A16S
ATOM	632	C6	C	A	34	158.738	79.533	15.820	1.00	50.94	A16S
ATOM	633	C2	C	A	34	160.092	81.514	15.882	1.00	50.94	A16S
ATOM	634	O2	C	A	34	161.210	82.029	15.752	1.00	50.94	A16S
ATOM	635	N3	C	A	34	159.002	82.244	16.205	1.00	50.94	A16S
ATOM	636	C4	C	A	34	157.816	81.643	16.342	1.00	50.94	A16S
ATOM	637	N4	C	A	34	156.763	82.394	16.681	1.00	50.94	A16S
ATOM	638	C5	C	A	34	157.653	80.241	16.143	1.00	50.94	A16S
ATOM	639	C2*	C	A	34	161.983	78.992	16.582	1.00	29.76	A16S
ATOM	640	O2*	C	A	34	163.352	79.034	16.249	1.00	29.76	A16S
ATOM	641	C3*	C	A	34	161.474	77.591	16.890	1.00	29.76	A16S
ATOM	642	O3*	C	A	34	162.413	76.820	17.591	1.00	29.76	A16S
ATOM	643	P	G	A	35	162.496	76.942	19.185	1.00	43.25	A16S
ATOM	644	O1P	G	A	35	163.537	75.970	19.601	1.00	48.17	A16S
ATOM	645	O2P	G	A	35	161.130	76.827	19.752	1.00	48.17	A16S
ATOM	646	O5*	G	A	35	163.067	78.413	19.416	1.00	43.25	A16S
ATOM	647	C5*	G	A	35	164.427	78.710	19.069	1.00	43.25	A16S
ATOM	648	C4*	G	A	35	164.847	80.026	19.653	1.00	43.25	A16S
ATOM	649	O4*	G	A	35	164.236	81.102	18.918	1.00	43.25	A16S
ATOM	650	C1*	G	A	35	163.869	82.139	19.805	1.00	43.25	A16S
ATOM	651	N9	G	A	35	162.415	82.261	19.775	1.00	48.17	A16S
ATOM	652	C4	G	A	35	161.686	83.396	20.019	1.00	48.17	A16S
ATOM	653	N3	G	A	35	162.187	84.600	20.338	1.00	48.17	A16S
ATOM	654	C2	G	A	35	161.239	85.492	20.522	1.00	48.17	A16S
ATOM	655	N2	G	A	35	161.568	86.741	20.847	1.00	48.17	A16S
ATOM	656	N1	G	A	35	159.906	85.224	20.402	1.00	48.17	A16S
ATOM	657	C6	G	A	35	159.368	83.989	20.078	1.00	48.17	A16S
ATOM	658	O6	G	A	35	158.147	83.849	20.006	1.00	48.17	A16S
ATOM	659	C5	G	A	35	160.371	83.024	19.877	1.00	48.17	A16S
ATOM	660	N7	G	A	35	160.270	81.677	19.555	1.00	48.17	A16S
ATOM	661	C8	G	A	35	161.506	81.266	19.503	1.00	48.17	A16S
ATOM	662	C2*	G	A	35	164.375	81.754	21.193	1.00	43.25	A16S
ATOM	663	O2*	G	A	35	165.654	82.302	21.398	1.00	43.25	A16S
ATOM	664	C3*	G	A	35	164.426	80.244	21.086	1.00	43.25	A16S
ATOM	665	O3*	G	A	35	165.370	79.704	21.970	1.00	43.25	A16S
ATOM	666	P	C	A	36	164.892	79.179	23.400	1.00	37.87	A16S
ATOM	667	O1P	C	A	36	166.040	78.403	23.925	1.00	39.02	A16S
ATOM	668	O2P	C	A	36	163.560	78.522	23.255	1.00	39.02	A16S
ATOM	669	O5*	C	A	36	164.735	80.507	24.258	1.00	37.87	A16S
ATOM	670	C5*	C	A	36	165.887	81.256	24.649	1.00	37.87	A16S
ATOM	671	C4*	C	A	36	165.472	82.611	25.150	1.00	37.87	A16S
ATOM	672	O4*	C	A	36	164.818	83.343	24.077	1.00	37.87	A16S
ATOM	673	C1*	C	A	36	163.780	84.151	24.610	1.00	37.87	A16S
ATOM	674	N1	C	A	36	162.496	83.693	24.062	1.00	39.02	A16S
ATOM	675	C6	C	A	36	162.392	82.501	23.410	1.00	39.02	A16S
ATOM	676	C2	C	A	36	161.371	84.495	24.240	1.00	39.02	A16S
ATOM	677	O2	C	A	36	161.502	85.580	24.824	1.00	39.02	A16S
ATOM	678	N3	C	A	36	160.175	84.073	23.778	1.00	39.02	A16S
ATOM	679	C4	C	A	36	160.085	82.903	23.159	1.00	39.02	A16S
ATOM	680	N4	C	A	36	158.890	82.512	22.734	1.00	39.02	A16S
ATOM	681	C5	C	A	36	161.218	82.073	22.950	1.00	39.02	A16S
ATOM	682	C2*	C	A	36	163.793	83.976	26.123	1.00	37.87	A16S
ATOM	683	O2*	C	A	36	164.557	85.014	26.688	1.00	37.87	A16S
ATOM	684	C3*	C	A	36	164.439	82.604	26.261	1.00	37.87	A16S

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ATOM    685  O3*  C   A  36     165.005  82.381  27.537  1.00 37.87      A16S
ATOM    686  P    U   A  37     164.131  81.636  28.663  1.00 38.06      A16S
ATOM    687  O1P  U   A  37     164.979  81.652  29.893  1.00 46.25      A16S
ATOM    688  O2P  U   A  37     163.636  80.335  28.123  1.00 46.25      A16S
ATOM    689  O5*  U   A  37     162.863  82.587  28.871  1.00 38.06      A16S
ATOM    690  C5*  U   A  37     163.013  83.903  29.439  1.00 38.06      A16S
ATOM    691  C4*  U   A  37     161.670  84.585  29.598  1.00 38.06      A16S
ATOM    692  O4*  U   A  37     161.153  85.008  28.312  1.00 38.06      A16S
ATOM    693  C1*  U   A  37     159.732  84.979  28.332  1.00 38.06      A16S
ATOM    694  N1   U   A  37     159.261  83.931  27.414  1.00 46.25      A16S
ATOM    695  C6   U   A  37     160.085  82.903  27.032  1.00 46.25      A16S
ATOM    696  C2   U   A  37     157.947  83.988  26.971  1.00 46.25      A16S
ATOM    697  O2   U   A  37     157.185  84.891  27.258  1.00 46.25      A16S
ATOM    698  N3   U   A  37     157.560  82.939  26.183  1.00 46.25      A16S
ATOM    699  C4   U   A  37     158.330  81.861  25.798  1.00 46.25      A16S
ATOM    700  O4   U   A  37     157.801  80.917  25.206  1.00 46.25      A16S
ATOM    701  C5   U   A  37     159.675  81.897  26.263  1.00 46.25      A16S
ATOM    702  C2*  U   A  37     159.322  84.587  29.741  1.00 38.06      A16S
ATOM    703  O2*  U   A  37     159.139  85.750  30.521  1.00 38.06      A16S
ATOM    704  C3*  U   A  37     160.528  83.781  30.183  1.00 38.06      A16S
ATOM    705  O3*  U   A  37     160.542  83.624  31.580  1.00 38.06      A16S
ATOM    706  P    G   A  38     159.776  82.366  32.216  1.00 37.43      A16S
ATOM    707  O1P  G   A  38     159.999  82.368  33.680  1.00 63.10      A16S
ATOM    708  O2P  G   A  38     160.156  81.179  31.415  1.00 63.10      A16S
ATOM    709  O5*  G   A  38     158.233  82.650  31.941  1.00 37.43      A16S
ATOM    710  C5*  G   A  38     157.629  83.851  32.431  1.00 37.43      A16S
ATOM    711  C4*  G   A  38     156.208  83.967  31.954  1.00 37.43      A16S
ATOM    712  O4*  G   A  38     156.187  84.018  30.510  1.00 37.43      A16S
ATOM    713  C1*  G   A  38     155.000  83.415  30.035  1.00 37.43      A16S
ATOM    714  N9   G   A  38     155.335  82.241  29.233  1.00 63.10      A16S
ATOM    715  C4   G   A  38     154.450  81.526  28.466  1.00 63.10      A16S
ATOM    716  N3   G   A  38     153.153  81.829  28.269  1.00 63.10      A16S
ATOM    717  C2   G   A  38     152.553  80.938  27.510  1.00 63.10      A16S
ATOM    718  N2   G   A  38     151.266  81.098  27.183  1.00 63.10      A16S
ATOM    719  N1   G   A  38     153.167  79.831  27.006  1.00 63.10      A16S
ATOM    720  C6   G   A  38     154.499  79.501  27.198  1.00 63.10      A16S
ATOM    721  O6   G   A  38     154.951  78.469  26.701  1.00 63.10      A16S
ATOM    722  C5   G   A  38     155.163  80.457  27.988  1.00 63.10      A16S
ATOM    723  N7   G   A  38     156.485  80.520  28.403  1.00 63.10      A16S
ATOM    724  C8   G   A  38     156.544  81.599  29.131  1.00 63.10      A16S
ATOM    725  C2*  G   A  38     154.194  82.968  31.250  1.00 37.43      A16S
ATOM    726  O2*  G   A  38     153.242  83.962  31.561  1.00 37.43      A16S
ATOM    727  C3*  G   A  38     155.284  82.817  32.298  1.00 37.43      A16S
ATOM    728  O3*  G   A  38     154.761  82.908  33.613  1.00 37.43      A16S
ATOM    729  P    G   A  39     154.572  81.570  34.491  1.00 63.14      A16S
ATOM    730  O1P  G   A  39     155.615  81.533  35.559  1.00 61.19      A16S
ATOM    731  O2P  G   A  39     154.399  80.403  33.581  1.00 61.19      A16S
ATOM    732  O5*  G   A  39     153.195  81.819  35.232  1.00 63.14      A16S
ATOM    733  C5*  G   A  39     151.978  81.834  34.499  1.00 63.14      A16S
ATOM    734  C4*  G   A  39     150.905  82.501  35.306  1.00 63.14      A16S
ATOM    735  O4*  G   A  39     151.159  83.931  35.395  1.00 63.14      A16S
ATOM    736  C1*  G   A  39     149.925  84.636  35.371  1.00 63.14      A16S
ATOM    737  N9   G   A  39     149.895  85.534  34.212  1.00 61.19      A16S
ATOM    738  C4   G   A  39     148.909  86.460  33.934  1.00 61.19      A16S
ATOM    739  N3   G   A  39     147.842  86.742  34.711  1.00 61.19      A16S
ATOM    740  C2   G   A  39     147.052  87.644  34.159  1.00 61.19      A16S
ATOM    741  N2   G   A  39     145.953  88.037  34.797  1.00 61.19      A16S
ATOM    742  N1   G   A  39     147.283  88.223  32.943  1.00 61.19      A16S
ATOM    743  C6   G   A  39     148.373  87.955  32.128  1.00 61.19      A16S
ATOM    744  O6   G   A  39     148.483  88.534  31.052  1.00 61.19      A16S
ATOM    745  C5   G   A  39     149.238  86.988  32.708  1.00 61.19      A16S
ATOM    746  N7   G   A  39     150.426  86.443  32.240  1.00 61.19      A16S
ATOM    747  C8   G   A  39     150.786  85.599  33.168  1.00 61.19      A16S
ATOM    748  C2*  G   A  39     148.807  83.592  35.276  1.00 63.14      A16S
ATOM    749  O2*  G   A  39     148.275  83.299  36.551  1.00 63.14      A16S
ATOM    750  C3*  G   A  39     149.541  82.411  34.668  1.00 63.14      A16S
ATOM    751  O3*  G   A  39     148.928  81.172  34.937  1.00 63.14      A16S
ATOM    752  P    C   A  40     147.855  80.595  33.898  1.00 50.02      A16S
ATOM    753  O1P  C   A  40     147.635  79.181  34.286  1.00 57.24      A16S
ATOM    754  O2P  C   A  40     148.268  80.922  32.507  1.00 57.24      A16S
ATOM    755  O5*  C   A  40     146.537  81.423  34.226  1.00 50.02      A16S
ATOM    756  C5*  C   A  40     146.031  81.478  35.572  1.00 50.02      A16S
ATOM    757  C4*  C   A  40     144.805  82.346  35.641  1.00 50.02      A16S
ATOM    758  O4*  C   A  40     145.172  83.738  35.477  1.00 50.02      A16S
ATOM    759  C1*  C   A  40     144.156  84.412  34.751  1.00 50.02      A16S
ATOM    760  N1   C   A  40     144.736  84.982  33.518  1.00 57.24      A16S
ATOM    761  C6   C   A  40     146.027  84.724  33.154  1.00 57.24      A16S
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ATOM    762  C2  C   A  40     143.933  85.787  32.717  1.00 57.24      A16S
ATOM    763  O2  C   A  40     142.769  86.008  33.071  1.00 57.24      A16S
ATOM    764  N3  C   A  40     144.437  86.302  31.581  1.00 57.24      A16S
ATOM    765  C4  C   A  40     145.692  86.042  31.233  1.00 57.24      A16S
ATOM    766  N4  C   A  40     146.145  86.570  30.099  1.00 57.24      A16S
ATOM    767  C5  C   A  40     146.539  85.228  32.030  1.00 57.24      A16S
ATOM    768  C2* C   A  40     143.045  83.401  34.453  1.00 50.02      A16S
ATOM    769  O2* C   A  40     142.017  83.502  35.408  1.00 50.02      A16S
ATOM    770  C3* C   A  40     143.794  82.086  34.547  1.00 50.02      A16S
ATOM    771  O3* C   A  40     142.947  81.005  34.849  1.00 50.02      A16S
ATOM    772  P   G   A  41     142.421  80.074  33.655  1.00 43.19      A16S
ATOM    773  O1P G   A  41     141.829  78.858  34.280  1.00 71.65      A16S
ATOM    774  O2P G   A  41     143.520  79.935  32.668  1.00 71.65      A16S
ATOM    775  O5* G   A  41     141.245  80.923  32.994  1.00 43.19      A16S
ATOM    776  C5* G   A  41     140.117  81.315  33.784  1.00 43.19      A16S
ATOM    777  C4* G   A  41     139.362  82.457  33.140  1.00 43.19      A16S
ATOM    778  O4* G   A  41     140.242  83.584  32.897  1.00 43.19      A16S
ATOM    779  C1* G   A  41     139.744  84.338  31.805  1.00 43.19      A16S
ATOM    780  N9  G   A  41     140.800  84.516  30.816  1.00 71.65      A16S
ATOM    781  C4  G   A  41     140.749  85.359  29.738  1.00 71.65      A16S
ATOM    782  N3  G   A  41     139.729  86.177  29.429  1.00 71.65      A16S
ATOM    783  C2  G   A  41     139.970  86.871  28.335  1.00 71.65      A16S
ATOM    784  N2  G   A  41     139.069  87.760  27.902  1.00 71.65      A16S
ATOM    785  N1  G   A  41     141.111  86.751  27.591  1.00 71.65      A16S
ATOM    786  C6  G   A  41     142.169  85.904  27.887  1.00 71.65      A16S
ATOM    787  O6  G   A  41     143.149  85.858  27.139  1.00 71.65      A16S
ATOM    788  C5  G   A  41     141.935  85.174  29.071  1.00 71.65      A16S
ATOM    789  N7  G   A  41     142.729  84.242  29.726  1.00 71.65      A16S
ATOM    790  C8  G   A  41     142.016  83.881  30.756  1.00 71.65      A16S
ATOM    791  C2* G   A  41     138.531  83.601  31.234  1.00 43.19      A16S
ATOM    792  O2* G   A  41     137.355  84.210  31.710  1.00 43.19      A16S
ATOM    793  C3* G   A  41     138.714  82.197  31.795  1.00 43.19      A16S
ATOM    794  O3* G   A  41     137.463  81.554  31.947  1.00 43.19      A16S
ATOM    795  P   G   A  42     136.873  80.683  30.737  1.00 44.91      A16S
ATOM    796  O1P G   A  42     135.775  79.859  31.301  1.00 48.90      A16S
ATOM    797  O2P G   A  42     137.995  80.022  30.020  1.00 48.90      A16S
ATOM    798  O5* G   A  42     136.252  81.757  29.751  1.00 44.91      A16S
ATOM    799  C5* G   A  42     135.028  82.405  30.068  1.00 44.91      A16S
ATOM    800  C4* G   A  42     134.662  83.351  28.969  1.00 44.91      A16S
ATOM    801  O4* G   A  42     135.676  84.374  28.864  1.00 44.91      A16S
ATOM    802  C1* G   A  42     135.863  84.716  27.505  1.00 44.91      A16S
ATOM    803  N9  G   A  42     137.230  84.391  27.125  1.00 48.90      A16S
ATOM    804  C4  G   A  42     137.926  84.966  26.100  1.00 48.90      A16S
ATOM    805  N3  G   A  42     137.467  85.936  25.283  1.00 48.90      A16S
ATOM    806  C2  G   A  42     138.364  86.291  24.389  1.00 48.90      A16S
ATOM    807  N2  G   A  42     138.065  87.241  23.495  1.00 48.90      A16S
ATOM    808  N1  G   A  42     139.616  85.739  24.304  1.00 48.90      A16S
ATOM    809  C6  G   A  42     140.106  84.734  25.135  1.00 48.90      A16S
ATOM    810  O6  G   A  42     141.248  84.296  24.968  1.00 48.90      A16S
ATOM    811  C5  G   A  42     139.151  84.347  26.099  1.00 48.90      A16S
ATOM    812  N7  G   A  42     139.226  83.400  27.108  1.00 48.90      A16S
ATOM    813  C8  G   A  42     138.063  83.462  27.692  1.00 48.90      A16S
ATOM    814  C2* G   A  42     134.869  83.909  26.679  1.00 44.91      A16S
ATOM    815  O2* G   A  42     133.712  84.692  26.479  1.00 44.91      A16S
ATOM    816  C3* G   A  42     134.628  82.722  27.593  1.00 44.91      A16S
ATOM    817  O3* G   A  42     133.391  82.108  27.350  1.00 44.91      A16S
ATOM    818  P   C   A  43     133.326  80.841  26.380  1.00 37.61      A16S
ATOM    819  O1P C   A  43     131.930  80.327  26.487  1.00 59.88      A16S
ATOM    820  O2P C   A  43     134.474  79.939  26.683  1.00 59.88      A16S
ATOM    821  O5* C   A  43     133.536  81.463  24.931  1.00 37.61      A16S
ATOM    822  C5* C   A  43     132.569  82.363  24.378  1.00 37.61      A16S
ATOM    823  C4* C   A  43     133.157  83.119  23.211  1.00 37.61      A16S
ATOM    824  O4* C   A  43     134.363  83.798  23.635  1.00 37.61      A16S
ATOM    825  C1* C   A  43     135.244  83.926  22.539  1.00 37.61      A16S
ATOM    826  N1  C   A  43     136.515  83.281  22.870  1.00 59.88      A16S
ATOM    827  C6  C   A  43     136.596  82.364  23.874  1.00 59.88      A16S
ATOM    828  C2  C   A  43     137.647  83.621  22.134  1.00 59.88      A16S
ATOM    829  O2  C   A  43     137.544  84.457  21.225  1.00 59.88      A16S
ATOM    830  N3  C   A  43     138.821  83.038  22.427  1.00 59.88      A16S
ATOM    831  C4  C   A  43     138.892  82.153  23.419  1.00 59.88      A16S
ATOM    832  N4  C   A  43     140.079  81.618  23.695  1.00 59.88      A16S
ATOM    833  C5  C   A  43     137.753  81.782  24.179  1.00 59.88      A16S
ATOM    834  C2* C   A  43     134.585  83.270  21.337  1.00 37.61      A16S
ATOM    835  O2* C   A  43     133.915  84.270  20.602  1.00 37.61      A16S
ATOM    836  C3* C   A  43     133.615  82.317  22.009  1.00 37.61      A16S
ATOM    837  O3* C   A  43     132.559  81.985  21.131  1.00 37.61      A16S
ATOM    838  P   G   A  44     132.561  80.545  20.425  1.00 53.46      A16S
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ATOM    839  O1P G   A  44     131.284  80.484  19.666  1.00 43.99      A16S
ATOM    840  O2P G   A  44     132.856  79.523  21.462  1.00 43.99      A16S
ATOM    841  O5* G   A  44     133.815  80.576  19.433  1.00 53.46      A16S
ATOM    842  C5* G   A  44     133.793  81.422  18.279  1.00 53.46      A16S
ATOM    843  C4* G   A  44     135.188  81.696  17.761  1.00 53.46      A16S
ATOM    844  O4* G   A  44     136.084  82.001  18.853  1.00 53.46      A16S
ATOM    845  C1* G   A  44     137.417  81.864  18.398  1.00 53.46      A16S
ATOM    846  N9  G   A  44     138.208  81.144  19.393  1.00 43.99      A16S
ATOM    847  C4  G   A  44     139.562  80.927  19.343  1.00 43.99      A16S
ATOM    848  N3  G   A  44     140.393  81.365  18.386  1.00 43.99      A16S
ATOM    849  C2  G   A  44     141.634  80.981  18.601  1.00 43.99      A16S
ATOM    850  N2  G   A  44     142.600  81.354  17.757  1.00 43.99      A16S
ATOM    851  N1  G   A  44     142.026  80.211  19.659  1.00 43.99      A16S
ATOM    852  C6  G   A  44     141.187  79.741  20.651  1.00 43.99      A16S
ATOM    853  O6  G   A  44     141.642  79.034  21.552  1.00 43.99      A16S
ATOM    854  C5  G   A  44     139.853  80.168  20.446  1.00 43.99      A16S
ATOM    855  N7  G   A  44     138.713  79.936  21.194  1.00 43.99      A16S
ATOM    856  C8  G   A  44     137.763  80.536  20.533  1.00 43.99      A16S
ATOM    857  C2* G   A  44     137.367  81.142  17.051  1.00 53.46      A16S
ATOM    858  O2* G   A  44     137.548  82.077  16.009  1.00 53.46      A16S
ATOM    859  C3* G   A  44     135.946  80.605  17.026  1.00 53.46      A16S
ATOM    860  O3* G   A  44     135.560  80.484  15.669  1.00 53.46      A16S
ATOM    861  P   U   A  45     135.679  79.054  14.936  1.00 28.25      A16S
ATOM    862  O1P U   A  45     135.175  79.284  13.558  1.00 53.29      A16S
ATOM    863  O2P U   A  45     135.063  77.980  15.778  1.00 53.29      A16S
ATOM    864  O5* U   A  45     137.239  78.751  14.878  1.00 28.25      A16S
ATOM    865  C5* U   A  45     138.045  79.336  13.874  1.00 28.25      A16S
ATOM    866  C4* U   A  45     139.497  79.158  14.208  1.00 28.25      A16S
ATOM    867  O4* U   A  45     139.715  79.527  15.584  1.00 28.25      A16S
ATOM    868  C1* U   A  45     140.765  78.759  16.119  1.00 28.25      A16S
ATOM    869  N1  U   A  45     140.277  78.055  17.306  1.00 53.29      A16S
ATOM    870  C6  U   A  45     138.958  78.064  17.659  1.00 53.29      A16S
ATOM    871  C2  U   A  45     141.206  77.396  18.058  1.00 53.29      A16S
ATOM    872  O2  U   A  45     142.383  77.353  17.754  1.00 53.29      A16S
ATOM    873  N3  U   A  45     140.714  76.785  19.176  1.00 53.29      A16S
ATOM    874  C4  U   A  45     139.409  76.772  19.600  1.00 53.29      A16S
ATOM    875  O4  U   A  45     139.127  76.242  20.674  1.00 53.29      A16S
ATOM    876  C5  U   A  45     138.503  77.463  18.750  1.00 53.29      A16S
ATOM    877  C2* U   A  45     141.262  77.823  15.027  1.00 28.25      A16S
ATOM    878  O2* U   A  45     142.379  78.441  14.428  1.00 28.25      A16S
ATOM    879  C3* U   A  45     140.052  77.758  14.112  1.00 28.25      A16S
ATOM    880  O3* U   A  45     140.416  77.473  12.782  1.00 28.25      A16S
ATOM    881  P   G   A  46     140.387  75.961  12.272  1.00 28.91      A16S
ATOM    882  O1P G   A  46     140.622  75.971  10.806  1.00 39.42      A16S
ATOM    883  O2P G   A  46     139.148  75.328  12.811  1.00 39.42      A16S
ATOM    884  O5* G   A  46     141.691  75.339  12.940  1.00 28.91      A16S
ATOM    885  C5* G   A  46     142.992  75.623  12.385  1.00 28.91      A16S
ATOM    886  C4* G   A  46     144.078  74.906  13.159  1.00 28.91      A16S
ATOM    887  O4* G   A  46     144.136  75.428  14.509  1.00 28.91      A16S
ATOM    888  C1* G   A  46     144.414  74.380  15.412  1.00 28.91      A16S
ATOM    889  N9  G   A  46     143.255  74.212  16.272  1.00 39.42      A16S
ATOM    890  C4  G   A  46     143.267  73.641  17.508  1.00 39.42      A16S
ATOM    891  N3  G   A  46     144.350  73.144  18.127  1.00 39.42      A16S
ATOM    892  C2  G   A  46     144.067  72.667  19.307  1.00 39.42      A16S
ATOM    893  N2  G   A  46     145.032  72.146  20.036  1.00 39.42      A16S
ATOM    894  N1  G   A  46     142.815  72.663  19.855  1.00 39.42      A16S
ATOM    895  C6  G   A  46     141.671  73.157  19.238  1.00 39.42      A16S
ATOM    896  O6  G   A  46     140.566  73.082  19.820  1.00 39.42      A16S
ATOM    897  C5  G   A  46     141.970  73.692  17.949  1.00 39.42      A16S
ATOM    898  N7  G   A  46     141.149  74.286  16.996  1.00 39.42      A16S
ATOM    899  C8  G   A  46     141.957  74.577  16.018  1.00 39.42      A16S
ATOM    900  C2* G   A  46     144.658  73.113  14.605  1.00 28.91      A16S
ATOM    901  O2* G   A  46     146.040  72.943  14.390  1.00 28.91      A16S
ATOM    902  C3* G   A  46     143.875  73.416  13.344  1.00 28.91      A16S
ATOM    903  O3* G   A  46     144.323  72.668  12.248  1.00 28.91      A16S
ATOM    904  P   C   A  47     143.371  71.535  11.661  1.00 26.99      A16S
ATOM    905  O1P C   A  47     142.244  72.195  10.963  1.00 43.61      A16S
ATOM    906  O2P C   A  47     143.084  70.582  12.761  1.00 43.61      A16S
ATOM    907  O5* C   A  47     144.277  70.838  10.562  1.00 26.99      A16S
ATOM    908  C5* C   A  47     145.592  70.402  10.870  1.00 26.99      A16S
ATOM    909  C4* C   A  47     146.402  70.274   9.608  1.00 26.99      A16S
ATOM    910  O4* C   A  47     147.717  69.799   9.980  1.00 26.99      A16S
ATOM    911  C1* C   A  47     147.995  68.600   9.300  1.00 26.99      A16S
ATOM    912  N1  C   A  47     148.799  67.749  10.180  1.00 43.61      A16S
ATOM    913  C6  C   A  47     148.355  67.370  11.419  1.00 43.61      A16S
ATOM    914  C2  C   A  47     150.054  67.363   9.737  1.00 43.61      A16S
ATOM    915  O2  C   A  47     150.389  67.663   8.582  1.00 43.61      A16S
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ATOM	916	N3	C	A	47	150.867	66.668	10.567	1.00	43.61	A16S
ATOM	917	C4	C	A	47	150.443	66.339	11.786	1.00	43.61	A16S
ATOM	918	N4	C	A	47	151.285	65.694	12.581	1.00	43.61	A16S
ATOM	919	C5	C	A	47	149.137	66.670	12.246	1.00	43.61	A16S
ATOM	920	C2*	C	A	47	146.655	68.027	8.858	1.00	26.99	A16S
ATOM	921	O2*	C	A	47	146.885	67.236	7.720	1.00	26.99	A16S
ATOM	922	C3*	C	A	47	145.874	69.302	8.555	1.00	26.99	A16S
ATOM	923	O3*	C	A	47	146.351	69.772	7.295	1.00	26.99	A16S
ATOM	924	P	C	A	48	145.341	70.259	6.141	1.00	38.12	A16S
ATOM	925	O1P	C	A	48	144.021	70.605	6.729	1.00	78.04	A16S
ATOM	926	O2P	C	A	48	145.410	69.289	4.995	1.00	78.04	A16S
ATOM	927	O5*	C	A	48	146.048	71.603	5.690	1.00	38.12	A16S
ATOM	928	C5*	C	A	48	147.473	71.724	5.813	1.00	38.12	A16S
ATOM	929	C4*	C	A	48	148.011	72.592	4.717	1.00	38.12	A16S
ATOM	930	O4*	C	A	48	147.849	73.996	5.058	1.00	38.12	A16S
ATOM	931	C1*	C	A	48	149.093	74.648	4.960	1.00	38.12	A16S
ATOM	932	N1	C	A	48	149.164	75.715	5.966	1.00	78.04	A16S
ATOM	933	C6	C	A	48	148.488	75.627	7.149	1.00	78.04	A16S
ATOM	934	C2	C	A	48	149.933	76.839	5.679	1.00	78.04	A16S
ATOM	935	O2	C	A	48	150.563	76.878	4.607	1.00	78.04	A16S
ATOM	936	N3	C	A	48	149.980	77.853	6.569	1.00	78.04	A16S
ATOM	937	C4	C	A	48	149.306	77.767	7.713	1.00	78.04	A16S
ATOM	938	N4	C	A	48	149.375	78.801	8.560	1.00	78.04	A16S
ATOM	939	C5	C	A	48	148.529	76.620	8.042	1.00	78.04	A16S
ATOM	940	C2*	C	A	48	150.157	73.565	5.097	1.00	38.12	A16S
ATOM	941	O2*	C	A	48	151.351	73.978	4.466	1.00	38.12	A16S
ATOM	942	C3*	C	A	48	149.483	72.387	4.399	1.00	38.12	A16S
ATOM	943	O3*	C	A	48	149.607	72.508	2.989	1.00	38.12	A16S
ATOM	944	P	U	A	49	149.308	71.236	2.052	1.00	54.64	A16S
ATOM	945	O1P	U	A	49	148.342	70.317	2.728	1.00	39.02	A16S
ATOM	946	O2P	U	A	49	149.035	71.696	0.666	1.00	39.02	A16S
ATOM	947	O5*	U	A	49	150.710	70.511	2.018	1.00	54.64	A16S
ATOM	948	C5*	U	A	49	150.760	69.117	1.885	1.00	54.64	A16S
ATOM	949	C4*	U	A	49	152.162	68.642	2.021	1.00	54.64	A16S
ATOM	950	O4*	U	A	49	152.788	69.256	3.170	1.00	54.64	A16S
ATOM	951	C1*	U	A	49	153.186	68.256	4.074	1.00	54.64	A16S
ATOM	952	N1	U	A	49	152.947	68.743	5.436	1.00	39.02	A16S
ATOM	953	C6	U	A	49	151.767	69.348	5.778	1.00	39.02	A16S
ATOM	954	C2	U	A	49	153.944	68.559	6.369	1.00	39.02	A16S
ATOM	955	O2	U	A	49	155.028	68.072	6.096	1.00	39.02	A16S
ATOM	956	N3	U	A	49	153.632	68.982	7.638	1.00	39.02	A16S
ATOM	957	C4	U	A	49	152.460	69.575	8.053	1.00	39.02	A16S
ATOM	958	O4	U	A	49	152.296	69.833	9.245	1.00	39.02	A16S
ATOM	959	C5	U	A	49	151.500	69.765	7.020	1.00	39.02	A16S
ATOM	960	C2*	U	A	49	152.358	67.017	3.739	1.00	54.64	A16S
ATOM	961	O2*	U	A	49	153.010	65.824	4.121	1.00	54.64	A16S
ATOM	962	C3*	U	A	49	152.198	67.147	2.233	1.00	54.64	A16S
ATOM	963	O3*	U	A	49	153.302	66.653	1.525	1.00	54.64	A16S
ATOM	964	P	A	A	50	153.077	66.033	0.072	1.00	42.39	A16S
ATOM	965	O1P	A	A	50	152.080	66.866	-0.657	1.00	60.28	A16S
ATOM	966	O2P	A	A	50	154.432	65.831	-0.507	1.00	60.28	A16S
ATOM	967	O5*	A	A	50	152.450	64.609	0.394	1.00	42.39	A16S
ATOM	968	C5*	A	A	50	151.324	64.103	-0.332	1.00	42.39	A16S
ATOM	969	C4*	A	A	50	150.650	63.046	0.493	1.00	42.39	A16S
ATOM	970	O4*	A	A	50	151.627	62.016	0.778	1.00	42.39	A16S
ATOM	971	C1*	A	A	50	151.867	61.948	2.163	1.00	42.39	A16S
ATOM	972	N9	A	A	50	153.296	61.751	2.332	1.00	60.28	A16S
ATOM	973	C4	A	A	50	153.907	60.771	3.067	1.00	60.28	A16S
ATOM	974	N3	A	A	50	153.318	59.821	3.802	1.00	60.28	A16S
ATOM	975	C2	A	A	50	154.231	59.040	4.370	1.00	60.28	A16S
ATOM	976	N1	A	A	50	155.558	59.100	4.287	1.00	60.28	A16S
ATOM	977	C6	A	A	50	156.111	60.068	3.538	1.00	60.28	A16S
ATOM	978	N6	A	A	50	157.433	60.131	3.451	1.00	60.28	A16S
ATOM	979	C5	A	A	50	155.259	60.956	2.890	1.00	60.28	A16S
ATOM	980	N7	A	A	50	155.502	62.043	2.068	1.00	60.28	A16S
ATOM	981	C8	A	A	50	154.307	62.483	1.770	1.00	60.28	A16S
ATOM	982	C2*	A	A	50	151.345	63.251	2.760	1.00	42.39	A16S
ATOM	983	O2*	A	A	50	150.966	63.074	4.102	1.00	42.39	A16S
ATOM	984	C3*	A	A	50	150.168	63.554	1.844	1.00	42.39	A16S
ATOM	985	O3*	A	A	50	149.049	62.751	2.199	1.00	42.39	A16S
ATOM	986	P	A	A	51	147.727	63.425	2.810	1.00	41.75	A16S
ATOM	987	O1P	A	A	51	147.530	62.858	4.178	1.00	51.78	A16S
ATOM	988	O2P	A	A	51	147.819	64.902	2.634	1.00	51.78	A16S
ATOM	989	O5*	A	A	51	146.553	62.872	1.885	1.00	41.75	A16S
ATOM	990	C5*	A	A	51	146.290	63.469	0.610	1.00	41.75	A16S
ATOM	991	C4*	A	A	51	145.853	62.422	-0.366	1.00	41.75	A16S
ATOM	992	O4*	A	A	51	144.406	62.414	-0.470	1.00	41.75	A16S

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ATOM    993  C1* A   A  51     144.038  62.532  -1.824  1.00 41.75      A16S
ATOM    994  N9  A   A  51     142.750  63.213  -1.921  1.00 51.78      A16S
ATOM    995  C4  A   A  51     141.750  62.902  -2.807  1.00 51.78      A16S
ATOM    996  N3  A   A  51     141.760  61.943  -3.739  1.00 51.78      A16S
ATOM    997  C2  A   A  51     140.614  61.929  -4.398  1.00 51.78      A16S
ATOM    998  N1  A   A  51     139.548  62.705  -4.244  1.00 51.78      A16S
ATOM    999  C6  A   A  51     139.577  63.655  -3.300  1.00 51.78      A16S
ATOM   1000  N6  A   A  51     138.514  64.429  -3.145  1.00 51.78      A16S
ATOM   1001  C5  A   A  51     140.722  63.773  -2.537  1.00 51.78      A16S
ATOM   1002  N7  A   A  51     141.060  64.625  -1.504  1.00 51.78      A16S
ATOM   1003  C8  A   A  51     142.274  64.255  -1.175  1.00 51.78      A16S
ATOM   1004  C2* A   A  51     145.194  63.251  -2.502  1.00 41.75      A16S
ATOM   1005  O2* A   A  51     145.198  62.975  -3.888  1.00 41.75      A16S
ATOM   1006  C3* A   A  51     146.383  62.642  -1.772  1.00 41.75      A16S
ATOM   1007  O3* A   A  51     146.683  61.369  -2.326  1.00 41.75      A16S
ATOM   1008  P   G   A  52     148.182  60.810  -2.267  1.00 45.16      A16S
ATOM   1009  O1P G   A  52     148.113  59.421  -2.776  1.00 62.69      A16S
ATOM   1010  O2P G   A  52     149.105  61.783  -2.908  1.00 62.69      A16S
ATOM   1011  O5* G   A  52     148.497  60.782  -0.709  1.00 45.16      A16S
ATOM   1012  C5* G   A  52     147.934  59.768   0.125  1.00 45.16      A16S
ATOM   1013  C4* G   A  52     148.973  58.708   0.417  1.00 45.16      A16S
ATOM   1014  O4* G   A  52     150.037  59.264   1.235  1.00 45.16      A16S
ATOM   1015  C1* G   A  52     150.471  58.300   2.174  1.00 45.16      A16S
ATOM   1016  N9  G   A  52     150.230  58.832   3.512  1.00 62.69      A16S
ATOM   1017  C4  G   A  52     150.587  58.246   4.696  1.00 62.69      A16S
ATOM   1018  N3  G   A  52     151.223  57.067   4.835  1.00 62.69      A16S
ATOM   1019  C2  G   A  52     151.409  56.753   6.102  1.00 62.69      A16S
ATOM   1020  N2  G   A  52     151.997  55.595   6.419  1.00 62.69      A16S
ATOM   1021  N1  G   A  52     151.023  57.542   7.149  1.00 62.69      A16S
ATOM   1022  C6  G   A  52     150.369  58.762   7.030  1.00 62.69      A16S
ATOM   1023  O6  G   A  52     150.059  59.397   8.044  1.00 62.69      A16S
ATOM   1024  C5  G   A  52     150.146  59.103   5.676  1.00 62.69      A16S
ATOM   1025  N7  G   A  52     149.522  60.207   5.121  1.00 62.69      A16S
ATOM   1026  C8  G   A  52     149.600  60.005   3.837  1.00 62.69      A16S
ATOM   1027  C2* G   A  52     149.710  57.002   1.892  1.00 45.16      A16S
ATOM   1028  O2* G   A  52     150.480  56.195   1.032  1.00 45.16      A16S
ATOM   1029  C3* G   A  52     148.458  57.514   1.196  1.00 45.16      A16S
ATOM   1030  O3* G   A  52     147.894  56.554   0.309  1.00 45.16      A16S
ATOM   1031  P   A   A  53     146.772  55.542   0.852  1.00 43.69      A16S
ATOM   1032  O1P A   A  53     146.519  54.543  -0.220  1.00 57.16      A16S
ATOM   1033  O2P A   A  53     145.612  56.332   1.418  1.00 57.16      A16S
ATOM   1034  O5* A   A  53     147.541  54.793   2.029  1.00 43.69      A16S
ATOM   1035  C5* A   A  53     148.695  53.992   1.733  1.00 43.69      A16S
ATOM   1036  C4* A   A  53     149.150  53.251   2.958  1.00 43.69      A16S
ATOM   1037  O4* A   A  53     149.831  54.151   3.864  1.00 43.69      A16S
ATOM   1038  C1* A   A  53     149.535  53.801   5.202  1.00 43.69      A16S
ATOM   1039  N9  A   A  53     148.807  54.926   5.795  1.00 57.16      A16S
ATOM   1040  C4  A   A  53     148.650  55.201   7.131  1.00 57.16      A16S
ATOM   1041  N3  A   A  53     149.143  54.515   8.168  1.00 57.16      A16S
ATOM   1042  C2  A   A  53     148.769  55.069   9.312  1.00 57.16      A16S
ATOM   1043  N1  A   A  53     148.021  56.146   9.523  1.00 57.16      A16S
ATOM   1044  C6  A   A  53     147.549  56.812   8.461  1.00 57.16      A16S
ATOM   1045  N6  A   A  53     146.809  57.889   8.671  1.00 57.16      A16S
ATOM   1046  C5  A   A  53     147.867  56.330   7.193  1.00 57.16      A16S
ATOM   1047  N7  A   A  53     147.539  56.772   5.924  1.00 57.16      A16S
ATOM   1048  C8  A   A  53     148.123  55.911   5.131  1.00 57.16      A16S
ATOM   1049  C2* A   A  53     148.676  52.534   5.154  1.00 43.69      A16S
ATOM   1050  O2* A   A  53     149.472  51.375   5.235  1.00 43.69      A16S
ATOM   1051  C3* A   A  53     148.037  52.651   3.783  1.00 43.69      A16S
ATOM   1052  O3* A   A  53     147.587  51.413   3.281  1.00 43.69      A16S
ATOM   1053  P   C   A  54     146.210  50.817   3.829  1.00 34.19      A16S
ATOM   1054  O1P C   A  54     146.157  49.389   3.437  1.00 44.10      A16S
ATOM   1055  O2P C   A  54     145.085  51.715   3.460  1.00 44.10      A16S
ATOM   1056  O5* C   A  54     146.453  50.909   5.397  1.00 34.19      A16S
ATOM   1057  C5* C   A  54     145.377  50.853   6.330  1.00 34.19      A16S
ATOM   1058  C4* C   A  54     145.925  50.955   7.723  1.00 34.19      A16S
ATOM   1059  O4* C   A  54     146.624  52.213   7.859  1.00 34.19      A16S
ATOM   1060  C1* C   A  54     146.437  52.724   9.170  1.00 34.19      A16S
ATOM   1061  N1  C   A  54     145.707  53.994   9.082  1.00 44.10      A16S
ATOM   1062  C6  C   A  54     145.271  54.476   7.883  1.00 44.10      A16S
ATOM   1063  C2  C   A  54     145.413  54.672  10.263  1.00 44.10      A16S
ATOM   1064  O2  C   A  54     145.902  54.263  11.324  1.00 44.10      A16S
ATOM   1065  N3  C   A  54     144.610  55.750  10.220  1.00 44.10      A16S
ATOM   1066  C4  C   A  54     144.120  56.163   9.053  1.00 44.10      A16S
ATOM   1067  N4  C   A  54     143.250  57.169   9.062  1.00 44.10      A16S
ATOM   1068  C5  C   A  54     144.479  55.545   7.824  1.00 44.10      A16S
ATOM   1069  C2* C   A  54     145.602  51.707   9.952  1.00 34.19      A16S
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ATOM   1070  O2* C   A  54     146.454  50.924  10.761  1.00 34.19      A16S
ATOM   1071  C3* C   A  54     144.890  50.964   8.827  1.00 34.19      A16S
ATOM   1072  O3* C   A  54     144.521  49.639   9.161  1.00 34.19      A16S
ATOM   1073  P   A   A  55     143.252  49.377  10.104  1.00 40.90      A16S
ATOM   1074  O1P A   A  55     142.608  48.129   9.614  1.00 52.05      A16S
ATOM   1075  O2P A   A  55     142.452  50.621  10.213  1.00 52.05      A16S
ATOM   1076  O5* A   A  55     143.917  49.070  11.517  1.00 40.90      A16S
ATOM   1077  C5* A   A  55     144.939  48.069  11.624  1.00 40.90      A16S
ATOM   1078  C4* A   A  55     145.206  47.729  13.066  1.00 40.90      A16S
ATOM   1079  O4* A   A  55     146.029  48.738  13.694  1.00 40.90      A16S
ATOM   1080  C1* A   A  55     145.704  48.814  15.069  1.00 40.90      A16S
ATOM   1081  N9  A   A  55     145.393  50.202  15.391  1.00 52.05      A16S
ATOM   1082  C4  A   A  55     144.955  50.675  16.601  1.00 52.05      A16S
ATOM   1083  N3  A   A  55     144.714  49.965  17.713  1.00 52.05      A16S
ATOM   1084  C2  A   A  55     144.307  50.764  18.698  1.00 52.05      A16S
ATOM   1085  N1  A   A  55     144.133  52.088  18.697  1.00 52.05      A16S
ATOM   1086  C6  A   A  55     144.386  52.769  17.560  1.00 52.05      A16S
ATOM   1087  N6  A   A  55     144.225  54.092  17.557  1.00 52.05      A16S
ATOM   1088  C5  A   A  55     144.813  52.036  16.442  1.00 52.05      A16S
ATOM   1089  N7  A   A  55     145.140  52.414  15.151  1.00 52.05      A16S
ATOM   1090  C8  A   A  55     145.478  51.292  14.572  1.00 52.05      A16S
ATOM   1091  C2* A   A  55     144.560  47.830  15.353  1.00 40.90      A16S
ATOM   1092  O2* A   A  55     145.065  46.659  15.964  1.00 40.90      A16S
ATOM   1093  C3* A   A  55     143.990  47.581  13.959  1.00 40.90      A16S
ATOM   1094  O3* A   A  55     143.442  46.278  13.844  1.00 40.90      A16S
ATOM   1095  P   U   A  56     141.855  46.081  13.918  1.00 54.47      A16S
ATOM   1096  O1P U   A  56     141.603  44.621  14.023  1.00 69.50      A16S
ATOM   1097  O2P U   A  56     141.225  46.857  12.818  1.00 69.50      A16S
ATOM   1098  O5* U   A  56     141.460  46.758  15.303  1.00 54.47      A16S
ATOM   1099  C5* U   A  56     141.854  46.150  16.540  1.00 54.47      A16S
ATOM   1100  C4* U   A  56     141.392  46.977  17.704  1.00 54.47      A16S
ATOM   1101  O4* U   A  56     142.228  48.149  17.840  1.00 54.47      A16S
ATOM   1102  C1* U   A  56     141.444  49.239  18.301  1.00 54.47      A16S
ATOM   1103  N1  U   A  56     141.464  50.300  17.280  1.00 69.50      A16S
ATOM   1104  C6  U   A  56     141.766  50.031  15.961  1.00 69.50      A16S
ATOM   1105  C2  U   A  56     141.158  51.585  17.685  1.00 69.50      A16S
ATOM   1106  O2  U   A  56     140.891  51.871  18.840  1.00 69.50      A16S
ATOM   1107  N3  U   A  56     141.175  52.523  16.686  1.00 69.50      A16S
ATOM   1108  C4  U   A  56     141.463  52.317  15.359  1.00 69.50      A16S
ATOM   1109  O4  U   A  56     141.420  53.265  14.582  1.00 69.50      A16S
ATOM   1110  C5  U   A  56     141.775  50.970  15.017  1.00 69.50      A16S
ATOM   1111  C2* U   A  56     140.025  48.721  18.535  1.00 54.47      A16S
ATOM   1112  O2* U   A  56     139.850  48.348  19.890  1.00 54.47      A16S
ATOM   1113  C3* U   A  56     139.988  47.532  17.593  1.00 54.47      A16S
ATOM   1114  O3* U   A  56     138.989  46.608  17.940  1.00 54.47      A16S
ATOM   1115  P   G   A  57     137.537  46.764  17.285  1.00 45.40      A16S
ATOM   1116  O1P G   A  57     136.737  45.560  17.626  1.00 77.94      A16S
ATOM   1117  O2P G   A  57     137.718  47.149  15.862  1.00 77.94      A16S
ATOM   1118  O5* G   A  57     136.907  47.999  18.059  1.00 45.40      A16S
ATOM   1119  C5* G   A  57     136.551  47.876  19.434  1.00 45.40      A16S
ATOM   1120  C4* G   A  57     135.987  49.170  19.940  1.00 45.40      A16S
ATOM   1121  O4* G   A  57     137.007  50.195  19.833  1.00 45.40      A16S
ATOM   1122  C1* G   A  57     136.399  51.441  19.537  1.00 45.40      A16S
ATOM   1123  N9  G   A  57     136.903  51.913  18.246  1.00 77.94      A16S
ATOM   1124  C4  G   A  57     136.945  53.222  17.816  1.00 77.94      A16S
ATOM   1125  N3  G   A  57     136.554  54.303  18.524  1.00 77.94      A16S
ATOM   1126  C2  G   A  57     136.712  55.423  17.840  1.00 77.94      A16S
ATOM   1127  N2  G   A  57     136.382  56.594  18.396  1.00 77.94      A16S
ATOM   1128  N1  G   A  57     137.205  55.476  16.564  1.00 77.94      A16S
ATOM   1129  C6  G   A  57     137.602  54.379  15.819  1.00 77.94      A16S
ATOM   1130  O6  G   A  57     138.013  54.539  14.679  1.00 77.94      A16S
ATOM   1131  C5  G   A  57     137.453  53.171  16.538  1.00 77.94      A16S
ATOM   1132  N7  G   A  57     137.741  51.863  16.172  1.00 77.94      A16S
ATOM   1133  C8  G   A  57     137.405  51.152  17.214  1.00 77.94      A16S
ATOM   1134  C2* G   A  57     134.884  51.212  19.512  1.00 45.40      A16S
ATOM   1135  O2* G   A  57     134.340  51.505  20.787  1.00 45.40      A16S
ATOM   1136  C3* G   A  57     134.807  49.731  19.170  1.00 45.40      A16S
ATOM   1137  O3* G   A  57     133.572  49.144  19.540  1.00 45.40      A16S
ATOM   1138  P   C   A  58     132.437  48.926  18.419  1.00 62.44      A16S
ATOM   1139  O1P C   A  58     131.337  48.117  19.013  1.00 53.77      A16S
ATOM   1140  O2P C   A  58     133.072  48.486  17.149  1.00 53.77      A16S
ATOM   1141  O5* C   A  58     131.846  50.383  18.193  1.00 62.44      A16S
ATOM   1142  C5* C   A  58     131.052  50.999  19.215  1.00 62.44      A16S
ATOM   1143  C4* C   A  58     130.940  52.479  18.978  1.00 62.44      A16S
ATOM   1144  O4* C   A  58     132.267  53.058  18.930  1.00 62.44      A16S
ATOM   1145  C1* C   A  58     132.293  54.110  17.982  1.00 62.44      A16S
ATOM   1146  N1  C   A  58     133.185  53.713  16.875  1.00 53.77      A16S
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ATOM	1147	C6	C	A	58	133.388	52.394	16.582	1.00	53.77	A16S
ATOM	1148	C2	C	A	58	133.800	54.709	16.098	1.00	53.77	A16S
ATOM	1149	O2	C	A	58	133.657	55.900	16.414	1.00	53.77	A16S
ATOM	1150	N3	C	A	58	134.541	54.345	15.028	1.00	53.77	A16S
ATOM	1151	C4	C	A	58	134.700	53.054	14.737	1.00	53.77	A16S
ATOM	1152	N4	C	A	58	135.417	52.739	13.660	1.00	53.77	A16S
ATOM	1153	C5	C	A	58	134.128	52.025	15.534	1.00	53.77	A16S
ATOM	1154	C2*	C	A	58	130.861	54.292	17.478	1.00	62.44	A16S
ATOM	1155	O2*	C	A	58	130.174	55.225	18.293	1.00	62.44	A16S
ATOM	1156	C3*	C	A	58	130.304	52.895	17.666	1.00	62.44	A16S
ATOM	1157	O3*	C	A	58	128.891	52.895	17.727	1.00	62.44	A16S
ATOM	1158	P	A	A	59	128.044	52.696	16.376	1.00	58.34	A16S
ATOM	1159	O1P	A	A	59	126.600	52.703	16.792	1.00	86.85	A16S
ATOM	1160	O2P	A	A	59	128.594	51.526	15.640	1.00	86.85	A16S
ATOM	1161	O5*	A	A	59	128.380	53.999	15.511	1.00	58.34	A16S
ATOM	1162	C5*	A	A	59	128.041	55.305	16.006	1.00	58.34	A16S
ATOM	1163	C4*	A	A	59	128.465	56.380	15.038	1.00	58.34	A16S
ATOM	1164	O4*	A	A	59	129.895	56.322	14.833	1.00	58.34	A16S
ATOM	1165	C1*	A	A	59	130.215	56.826	13.547	1.00	58.34	A16S
ATOM	1166	N9	A	A	59	131.019	55.839	12.820	1.00	86.85	A16S
ATOM	1167	C4	A	A	59	131.309	55.879	11.477	1.00	86.85	A16S
ATOM	1168	N3	A	A	59	130.928	56.813	10.593	1.00	86.85	A16S
ATOM	1169	C2	A	A	59	131.379	56.520	9.379	1.00	86.85	A16S
ATOM	1170	N1	A	A	59	132.111	55.478	8.977	1.00	86.85	A16S
ATOM	1171	C6	A	A	59	132.479	54.558	9.891	1.00	86.85	A16S
ATOM	1172	N6	A	A	59	133.206	53.517	9.486	1.00	86.85	A16S
ATOM	1173	C5	A	A	59	132.066	54.755	11.219	1.00	86.85	A16S
ATOM	1174	N7	A	A	59	132.270	54.023	12.380	1.00	86.85	A16S
ATOM	1175	C8	A	A	59	131.630	54.704	13.298	1.00	86.85	A16S
ATOM	1176	C2*	A	A	59	128.900	57.174	12.853	1.00	58.34	A16S
ATOM	1177	O2*	A	A	59	128.690	58.560	13.006	1.00	58.34	A16S
ATOM	1178	C3*	A	A	59	127.888	56.346	13.639	1.00	58.34	A16S
ATOM	1179	O3*	A	A	59	126.605	56.948	13.607	1.00	58.34	A16S
ATOM	1180	P	A	A	60	125.765	56.963	12.233	1.00	20.80	A16S
ATOM	1181	O1P	A	A	60	126.669	57.370	11.135	1.00	55.99	A16S
ATOM	1182	O2P	A	A	60	124.493	57.694	12.447	1.00	55.99	A16S
ATOM	1183	O5*	A	A	60	125.409	55.447	11.967	1.00	20.80	A16S
ATOM	1184	C5*	A	A	60	124.835	54.665	12.993	1.00	20.80	A16S
ATOM	1185	C4*	A	A	60	123.845	53.721	12.399	1.00	20.80	A16S
ATOM	1186	O4*	A	A	60	122.718	54.483	11.912	1.00	20.80	A16S
ATOM	1187	C1*	A	A	60	122.444	54.150	10.572	1.00	20.80	A16S
ATOM	1188	N9	A	A	60	122.076	55.390	9.903	1.00	55.99	A16S
ATOM	1189	C4	A	A	60	120.922	55.642	9.208	1.00	55.99	A16S
ATOM	1190	N3	A	A	60	119.911	54.795	8.972	1.00	55.99	A16S
ATOM	1191	C2	A	A	60	118.951	55.396	8.282	1.00	55.99	A16S
ATOM	1192	N1	A	A	60	118.892	56.649	7.835	1.00	55.99	A16S
ATOM	1193	C6	A	A	60	119.930	57.471	8.088	1.00	55.99	A16S
ATOM	1194	N6	A	A	60	119.874	58.726	7.646	1.00	55.99	A16S
ATOM	1195	C5	A	A	60	121.007	56.956	8.806	1.00	55.99	A16S
ATOM	1196	N7	A	A	60	122.201	57.519	9.219	1.00	55.99	A16S
ATOM	1197	C8	A	A	60	122.798	56.550	9.860	1.00	55.99	A16S
ATOM	1198	C2*	A	A	60	123.708	53.534	9.992	1.00	20.80	A16S
ATOM	1199	O2*	A	A	60	123.385	52.637	8.958	1.00	20.80	A16S
ATOM	1200	C3*	A	A	60	124.372	52.918	11.223	1.00	20.80	A16S
ATOM	1201	O3*	A	A	60	124.527	51.495	11.458	1.00	20.80	A16S
ATOM	1202	P	G	A	61	123.257	50.562	11.788	1.00	48.21	A16S
ATOM	1203	O1P	G	A	61	123.820	49.218	12.019	1.00	44.77	A16S
ATOM	1204	O2P	G	A	61	122.205	50.740	10.757	1.00	44.77	A16S
ATOM	1205	O5*	G	A	61	122.753	51.100	13.202	1.00	48.21	A16S
ATOM	1206	C5*	G	A	61	121.463	50.744	13.707	1.00	48.21	A16S
ATOM	1207	C4*	G	A	61	120.482	51.845	13.413	1.00	48.21	A16S
ATOM	1208	O4*	G	A	61	120.466	52.084	11.989	1.00	48.21	A16S
ATOM	1209	C1*	G	A	61	119.150	52.380	11.565	1.00	48.21	A16S
ATOM	1210	N9	G	A	61	118.728	51.320	10.662	1.00	44.77	A16S
ATOM	1211	C4	G	A	61	117.604	51.309	9.887	1.00	44.77	A16S
ATOM	1212	N3	G	A	61	116.681	52.283	9.826	1.00	44.77	A16S
ATOM	1213	C2	G	A	61	115.724	51.995	8.974	1.00	44.77	A16S
ATOM	1214	N2	G	A	61	114.741	52.863	8.779	1.00	44.77	A16S
ATOM	1215	N1	G	A	61	115.668	50.833	8.248	1.00	44.77	A16S
ATOM	1216	C6	G	A	61	116.607	49.805	8.310	1.00	44.77	A16S
ATOM	1217	O6	G	A	61	116.462	48.771	7.631	1.00	44.77	A16S
ATOM	1218	C5	G	A	61	117.644	50.115	9.204	1.00	44.77	A16S
ATOM	1219	N7	G	A	61	118.770	49.388	9.548	1.00	44.77	A16S
ATOM	1220	C8	G	A	61	119.381	50.139	10.418	1.00	44.77	A16S
ATOM	1221	C2*	G	A	61	118.274	52.446	12.806	1.00	48.21	A16S
ATOM	1222	O2*	G	A	61	118.249	53.778	13.273	1.00	48.21	A16S
ATOM	1223	C3*	G	A	61	119.038	51.534	13.743	1.00	48.21	A16S

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ATOM   1224  O3* G   A  61     118.756  51.787  15.092  1.00 48.21      A16S
ATOM   1225  P   U   A  62     118.035  50.651  15.952  1.00 33.62      A16S
ATOM   1226  O1P U   A  62     118.318  49.315  15.353  1.00 44.19      A16S
ATOM   1227  O2P U   A  62     118.386  50.914  17.369  1.00 44.19      A16S
ATOM   1228  O5* U   A  62     116.484  50.878  15.693  1.00 33.62      A16S
ATOM   1229  C5* U   A  62     115.878  52.130  15.945  1.00 33.62      A16S
ATOM   1230  C4* U   A  62     114.714  52.297  15.028  1.00 33.62      A16S
ATOM   1231  O4* U   A  62     115.162  52.045  13.681  1.00 33.62      A16S
ATOM   1232  C1* U   A  62     114.104  51.521  12.917  1.00 33.62      A16S
ATOM   1233  N1  U   A  62     114.584  50.335  12.205  1.00 44.19      A16S
ATOM   1234  C6  U   A  62     115.732  49.679  12.583  1.00 44.19      A16S
ATOM   1235  C2  U   A  62     113.837  49.905  11.133  1.00 44.19      A16S
ATOM   1236  O2  U   A  62     112.811  50.452  10.784  1.00 44.19      A16S
ATOM   1237  N3  U   A  62     114.331  48.806  10.488  1.00 44.19      A16S
ATOM   1238  C4  U   A  62     115.467  48.102  10.799  1.00 44.19      A16S
ATOM   1239  O4  U   A  62     115.801  47.149  10.087  1.00 44.19      A16S
ATOM   1240  C5  U   A  62     116.187  48.606  11.936  1.00 44.19      A16S
ATOM   1241  C2* U   A  62     112.930  51.261  13.852  1.00 33.62      A16S
ATOM   1242  O2* U   A  62     112.005  52.301  13.671  1.00 33.62      A16S
ATOM   1243  C3* U   A  62     113.610  51.284  15.216  1.00 33.62      A16S
ATOM   1244  O3* U   A  62     112.757  51.728  16.250  1.00 33.62      A16S
ATOM   1245  P   C   A  63     112.006  50.662  17.172  1.00 32.65      A16S
ATOM   1246  O1P C   A  63     112.915  49.508  17.395  1.00 30.53      A16S
ATOM   1247  O2P C   A  63     111.487  51.432  18.338  1.00 30.53      A16S
ATOM   1248  O5* C   A  63     110.804  50.192  16.246  1.00 32.65      A16S
ATOM   1249  C5* C   A  63     109.736  51.084  15.959  1.00 32.65      A16S
ATOM   1250  C4* C   A  63     108.858  50.517  14.888  1.00 32.65      A16S
ATOM   1251  O4* C   A  63     109.631  50.398  13.680  1.00 32.65      A16S
ATOM   1252  C1* C   A  63     109.034  49.428  12.847  1.00 32.65      A16S
ATOM   1253  N1  C   A  63     110.052  48.500  12.362  1.00 30.53      A16S
ATOM   1254  C6  C   A  63     111.190  48.263  13.073  1.00 30.53      A16S
ATOM   1255  C2  C   A  63     109.827  47.846  11.142  1.00 30.53      A16S
ATOM   1256  O2  C   A  63     108.792  48.094  10.509  1.00 30.53      A16S
ATOM   1257  N3  C   A  63     110.738  46.970  10.686  1.00 30.53      A16S
ATOM   1258  C4  C   A  63     111.850  46.748  11.387  1.00 30.53      A16S
ATOM   1259  N4  C   A  63     112.735  45.877  10.894  1.00 30.53      A16S
ATOM   1260  C5  C   A  63     112.110  47.407  12.626  1.00 30.53      A16S
ATOM   1261  C2* C   A  63     107.958  48.715  13.655  1.00 32.65      A16S
ATOM   1262  O2* C   A  63     106.713  49.250  13.251  1.00 32.65      A16S
ATOM   1263  C3* C   A  63     108.333  49.103  15.079  1.00 32.65      A16S
ATOM   1264  O3* C   A  63     107.203  49.043  15.945  1.00 32.65      A16S
ATOM   1265  P   G   A  64     107.199  48.009  17.178  1.00 57.28      A16S
ATOM   1266  O1P G   A  64     106.331  48.647  18.185  1.00 36.49      A16S
ATOM   1267  O2P G   A  64     108.583  47.616  17.553  1.00 36.49      A16S
ATOM   1268  O5* G   A  64     106.455  46.724  16.607  1.00 57.28      A16S
ATOM   1269  C5* G   A  64     105.041  46.746  16.331  1.00 57.28      A16S
ATOM   1270  C4* G   A  64     104.429  45.401  16.646  1.00 57.28      A16S
ATOM   1271  O4* G   A  64     105.148  44.395  15.899  1.00 57.28      A16S
ATOM   1272  C1* G   A  64     105.140  43.184  16.618  1.00 57.28      A16S
ATOM   1273  N9  G   A  64     106.475  42.595  16.598  1.00 36.49      A16S
ATOM   1274  C4  G   A  64     106.826  41.406  15.979  1.00 36.49      A16S
ATOM   1275  N3  G   A  64     105.991  40.574  15.311  1.00 36.49      A16S
ATOM   1276  C2  G   A  64     106.622  39.509  14.832  1.00 36.49      A16S
ATOM   1277  N2  G   A  64     105.937  38.575  14.159  1.00 36.49      A16S
ATOM   1278  N1  G   A  64     107.965  39.284  14.975  1.00 36.49      A16S
ATOM   1279  C6  G   A  64     108.848  40.130  15.627  1.00 36.49      A16S
ATOM   1280  O6  G   A  64     110.050  39.851  15.648  1.00 36.49      A16S
ATOM   1281  C5  G   A  64     108.178  41.273  16.183  1.00 36.49      A16S
ATOM   1282  N7  G   A  64     108.667  42.338  16.930  1.00 36.49      A16S
ATOM   1283  C8  G   A  64     107.621  43.093  17.156  1.00 36.49      A16S
ATOM   1284  C2* G   A  64     104.510  43.426  17.989  1.00 57.28      A16S
ATOM   1285  O2* G   A  64     103.180  42.927  17.975  1.00 57.28      A16S
ATOM   1286  C3* G   A  64     104.526  44.946  18.102  1.00 57.28      A16S
ATOM   1287  O3* G   A  64     103.401  45.277  18.947  1.00 57.28      A16S
ATOM   1288  P   U   A  65     102.088  46.011  18.353  1.00 41.84      A16S
ATOM   1289  O1P U   A  65     100.958  45.565  19.205  1.00 79.27      A16S
ATOM   1290  O2P U   A  65     102.355  47.462  18.182  1.00 79.27      A16S
ATOM   1291  O5* U   A  65     101.835  45.385  16.916  1.00 41.84      A16S
ATOM   1292  C5* U   A  65     100.514  45.346  16.357  1.00 41.84      A16S
ATOM   1293  C4* U   A  65     100.360  46.371  15.242  1.00 41.84      A16S
ATOM   1294  O4* U   A  65      99.418  47.405  15.619  1.00 41.84      A16S
ATOM   1295  C1* U   A  65      99.968  48.669  15.340  1.00 41.84      A16S
ATOM   1296  N1  U   A  65      99.406  49.637  16.290  1.00 79.27      A16S
ATOM   1297  C6  U   A  65      99.557  49.495  17.649  1.00 79.27      A16S
ATOM   1298  C2  U   A  65      98.695  50.693  15.761  1.00 79.27      A16S
ATOM   1299  O2  U   A  65      98.554  50.858  14.559  1.00 79.27      A16S
ATOM   1300  N3  U   A  65      98.154  51.551  16.688  1.00 79.27      A16S
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ATOM   1301  C4  U   A  65      98.258  51.463  18.063  1.00 79.27      A16S
ATOM   1302  O4  U   A  65      97.720  52.318  18.771  1.00 79.27      A16S
ATOM   1303  C5  U   A  65      99.020  50.348  18.531  1.00 79.27      A16S
ATOM   1304  C2* U   A  65     101.481  48.477  15.342  1.00 41.84      A16S
ATOM   1305  O2* U   A  65     102.106  49.501  14.590  1.00 41.84      A16S
ATOM   1306  C3* U   A  65     101.595  47.089  14.710  1.00 41.84      A16S
ATOM   1307  O3* U   A  65     101.426  47.193  13.300  1.00 41.84      A16S
ATOM   1308  P   G   A  66     102.689  47.027  12.329  1.00 51.31      A16S
ATOM   1309  O1P G   A  66     103.809  46.405  13.070  1.00 42.94      A16S
ATOM   1310  O2P G   A  66     102.886  48.330  11.656  1.00 42.94      A16S
ATOM   1311  O5* G   A  66     102.210  45.979  11.237  1.00 51.31      A16S
ATOM   1312  C5* G   A  66     100.972  46.158  10.530  1.00 51.31      A16S
ATOM   1313  C4* G   A  66     100.979  45.321   9.284  1.00 51.31      A16S
ATOM   1314  O4* G   A  66     102.098  45.747   8.471  1.00 51.31      A16S
ATOM   1315  C1* G   A  66     102.724  44.623   7.878  1.00 51.31      A16S
ATOM   1316  N9  G   A  66     104.057  44.503   8.457  1.00 42.94      A16S
ATOM   1317  C4  G   A  66     104.945  43.484   8.244  1.00 42.94      A16S
ATOM   1318  N3  G   A  66     104.747  42.423   7.445  1.00 42.94      A16S
ATOM   1319  C2  G   A  66     105.767  41.587   7.489  1.00 42.94      A16S
ATOM   1320  N2  G   A  66     105.732  40.462   6.776  1.00 42.94      A16S
ATOM   1321  N1  G   A  66     106.894  41.789   8.239  1.00 42.94      A16S
ATOM   1322  C6  G   A  66     107.116  42.885   9.056  1.00 42.94      A16S
ATOM   1323  O6  G   A  66     108.162  42.978   9.684  1.00 42.94      A16S
ATOM   1324  C5  G   A  66     106.033  43.776   9.033  1.00 42.94      A16S
ATOM   1325  N7  G   A  66     105.844  44.966   9.716  1.00 42.94      A16S
ATOM   1326  C8  G   A  66     104.662  45.365   9.339  1.00 42.94      A16S
ATOM   1327  C2* G   A  66     101.872  43.404   8.217  1.00 51.31      A16S
ATOM   1328  O2* G   A  66     100.915  43.170   7.201  1.00 51.31      A16S
ATOM   1329  C3* G   A  66     101.235  43.845   9.522  1.00 51.31      A16S
ATOM   1330  O3* G   A  66     100.054  43.128   9.813  1.00 51.31      A16S
ATOM   1331  P   C   A  67     100.106  41.915  10.865  1.00 50.81      A16S
ATOM   1332  O1P C   A  67      98.727  41.370  10.859  1.00 25.86      A16S
ATOM   1333  O2P C   A  67     100.702  42.407  12.141  1.00 25.86      A16S
ATOM   1334  O5* C   A  67     101.063  40.835  10.183  1.00 50.81      A16S
ATOM   1335  C5* C   A  67     100.683  40.260   8.924  1.00 50.81      A16S
ATOM   1336  C4* C   A  67     101.567  39.092   8.557  1.00 50.81      A16S
ATOM   1337  O4* C   A  67     102.885  39.548   8.175  1.00 50.81      A16S
ATOM   1338  C1* C   A  67     103.837  38.547   8.470  1.00 50.81      A16S
ATOM   1339  N1  C   A  67     104.807  39.087   9.427  1.00 25.86      A16S
ATOM   1340  C6  C   A  67     104.509  40.174  10.199  1.00 25.86      A16S
ATOM   1341  C2  C   A  67     106.062  38.473   9.527  1.00 25.86      A16S
ATOM   1342  O2  C   A  67     106.285  37.441   8.863  1.00 25.86      A16S
ATOM   1343  N3  C   A  67     106.997  39.009  10.354  1.00 25.86      A16S
ATOM   1344  C4  C   A  67     106.705  40.094  11.074  1.00 25.86      A16S
ATOM   1345  N4  C   A  67     107.663  40.611  11.840  1.00 25.86      A16S
ATOM   1346  C5  C   A  67     105.420  40.703  11.029  1.00 25.86      A16S
ATOM   1347  C2* C   A  67     103.087  37.356   9.046  1.00 50.81      A16S
ATOM   1348  O2* C   A  67     102.793  36.477   7.979  1.00 50.81      A16S
ATOM   1349  C3* C   A  67     101.838  38.027   9.601  1.00 50.81      A16S
ATOM   1350  O3* C   A  67     100.780  37.093   9.752  1.00 50.81      A16S
ATOM   1351  P   G   A  68     100.710  36.212  11.092  1.00 50.30      A16S
ATOM   1352  O1P G   A  68      99.401  35.527  11.112  1.00 27.98      A16S
ATOM   1353  O2P G   A  68     101.112  37.066  12.235  1.00 27.98      A16S
ATOM   1354  O5* G   A  68     101.841  35.115  10.878  1.00 50.30      A16S
ATOM   1355  C5* G   A  68     101.633  34.043   9.955  1.00 50.30      A16S
ATOM   1356  C4* G   A  68     102.827  33.138   9.933  1.00 50.30      A16S
ATOM   1357  O4* G   A  68     103.984  33.887   9.498  1.00 50.30      A16S
ATOM   1358  C1* G   A  68     105.148  33.368  10.114  1.00 50.30      A16S
ATOM   1359  N9  G   A  68     105.785  34.410  10.911  1.00 27.98      A16S
ATOM   1360  C4  G   A  68     107.130  34.534  11.131  1.00 27.98      A16S
ATOM   1361  N3  G   A  68     108.089  33.734  10.624  1.00 27.98      A16S
ATOM   1362  C2  G   A  68     109.298  34.102  11.020  1.00 27.98      A16S
ATOM   1363  N2  G   A  68     110.382  33.426  10.596  1.00 27.98      A16S
ATOM   1364  N1  G   A  68     109.537  35.161  11.858  1.00 27.98      A16S
ATOM   1365  C6  G   A  68     108.562  35.987  12.393  1.00 27.98      A16S
ATOM   1366  O6  G   A  68     108.887  36.894  13.148  1.00 27.98      A16S
ATOM   1367  C5  G   A  68     107.268  35.619  11.962  1.00 27.98      A16S
ATOM   1368  N7  G   A  68     106.034  36.180  12.249  1.00 27.98      A16S
ATOM   1369  C8  G   A  68     105.182  35.433  11.602  1.00 27.98      A16S
ATOM   1370  C2* G   A  68     104.719  32.215  11.006  1.00 50.30      A16S
ATOM   1371  O2* G   A  68     104.893  30.994  10.309  1.00 50.30      A16S
ATOM   1372  C3* G   A  68     103.259  32.561  11.264  1.00 50.30      A16S
ATOM   1373  O3* G   A  68     102.505  31.426  11.654  1.00 50.30      A16S
ATOM   1374  P   G   A  69     102.915  30.637  12.992  1.00 59.38      A16S
ATOM   1375  O1P G   A  69     101.883  29.584  13.192  1.00 51.18      A16S
ATOM   1376  O2P G   A  69     103.165  31.625  14.063  1.00 51.18      A16S
ATOM   1377  O5* G   A  69     104.319  29.980  12.600  1.00 59.38      A16S
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ATOM   1378  C5* G   A  69     105.333  29.737  13.595  1.00 59.38      A16S
ATOM   1379  C4* G   A  69     106.716  29.729  12.971  1.00 59.38      A16S
ATOM   1380  O4* G   A  69     107.050  31.066  12.514  1.00 59.38      A16S
ATOM   1381  C1* G   A  69     108.404  31.365  12.823  1.00 59.38      A16S
ATOM   1382  N9  G   A  69     108.416  32.454  13.794  1.00 51.18      A16S
ATOM   1383  C4  G   A  69     109.513  32.959  14.453  1.00 51.18      A16S
ATOM   1384  N3  G   A  69     110.783  32.529  14.327  1.00 51.18      A16S
ATOM   1385  C2  G   A  69     111.613  33.212  15.105  1.00 51.18      A16S
ATOM   1386  N2  G   A  69     112.920  32.907  15.131  1.00 51.18      A16S
ATOM   1387  N1  G   A  69     111.229  34.240  15.922  1.00 51.18      A16S
ATOM   1388  C6  G   A  69     109.929  34.708  16.061  1.00 51.18      A16S
ATOM   1389  O6  G   A  69     109.688  35.663  16.825  1.00 51.18      A16S
ATOM   1390  C5  G   A  69     109.024  33.974  15.248  1.00 51.18      A16S
ATOM   1391  N7  G   A  69     107.648  34.099  15.099  1.00 51.18      A16S
ATOM   1392  C8  G   A  69     107.334  33.180  14.230  1.00 51.18      A16S
ATOM   1393  C2* G   A  69     109.034  30.105  13.399  1.00 59.38      A16S
ATOM   1394  O2* G   A  69     109.668  29.385  12.366  1.00 59.38      A16S
ATOM   1395  C3* G   A  69     107.813  29.406  13.972  1.00 59.38      A16S
ATOM   1396  O3* G   A  69     107.984  28.013  14.164  1.00 59.38      A16S
ATOM   1397  P   G   A  70     108.212  27.449  15.653  1.00 49.41      A16S
ATOM   1398  O1P G   A  70     107.764  26.030  15.639  1.00 52.36      A16S
ATOM   1399  O2P G   A  70     107.616  28.401  16.646  1.00 52.36      A16S
ATOM   1400  O5* G   A  70     109.794  27.491  15.831  1.00 49.41      A16S
ATOM   1401  C5* G   A  70     110.657  26.779  14.938  1.00 49.41      A16S
ATOM   1402  C4* G   A  70     112.089  27.119  15.240  1.00 49.41      A16S
ATOM   1403  O4* G   A  70     112.313  28.530  14.988  1.00 49.41      A16S
ATOM   1404  C1* G   A  70     113.189  29.068  15.971  1.00 49.41      A16S
ATOM   1405  N9  G   A  70     112.453  30.080  16.730  1.00 52.36      A16S
ATOM   1406  C4  G   A  70     112.975  31.005  17.610  1.00 52.36      A16S
ATOM   1407  N3  G   A  70     114.271  31.119  17.974  1.00 52.36      A16S
ATOM   1408  C2  G   A  70     114.457  32.113  18.838  1.00 52.36      A16S
ATOM   1409  N2  G   A  70     115.683  32.361  19.331  1.00 52.36      A16S
ATOM   1410  N1  G   A  70     113.455  32.937  19.289  1.00 52.36      A16S
ATOM   1411  C6  G   A  70     112.115  32.842  18.923  1.00 52.36      A16S
ATOM   1412  O6  G   A  70     111.288  33.644  19.384  1.00 52.36      A16S
ATOM   1413  C5  G   A  70     111.897  31.768  18.016  1.00 52.36      A16S
ATOM   1414  N7  G   A  70     110.723  31.316  17.431  1.00 52.36      A16S
ATOM   1415  C8  G   A  70     111.098  30.314  16.685  1.00 52.36      A16S
ATOM   1416  C2* G   A  70     113.650  27.905  16.838  1.00 49.41      A16S
ATOM   1417  O2* G   A  70     114.831  27.358  16.287  1.00 49.41      A16S
ATOM   1418  C3* G   A  70     112.477  26.953  16.694  1.00 49.41      A16S
ATOM   1419  O3* G   A  70     112.811  25.626  17.021  1.00 49.41      A16S
ATOM   1420  P   C   A  73     112.494  25.086  18.497  1.00 57.94      A16S
ATOM   1421  O1P C   A  73     112.904  23.654  18.486  1.00 56.29      A16S
ATOM   1422  O2P C   A  73     111.088  25.454  18.857  1.00 56.29      A16S
ATOM   1423  O5* C   A  73     113.498  25.902  19.435  1.00 57.94      A16S
ATOM   1424  C5* C   A  73     114.926  25.675  19.374  1.00 57.94      A16S
ATOM   1425  C4* C   A  73     115.657  26.641  20.281  1.00 57.94      A16S
ATOM   1426  O4* C   A  73     115.419  28.000  19.838  1.00 57.94      A16S
ATOM   1427  C1* C   A  73     115.282  28.862  20.954  1.00 57.94      A16S
ATOM   1428  N1  C   A  73     113.895  29.364  20.981  1.00 56.29      A16S
ATOM   1429  C6  C   A  73     112.938  28.814  20.175  1.00 56.29      A16S
ATOM   1430  C2  C   A  73     113.565  30.409  21.852  1.00 56.29      A16S
ATOM   1431  O2  C   A  73     114.444  30.887  22.574  1.00 56.29      A16S
ATOM   1432  N3  C   A  73     112.293  30.867  21.885  1.00 56.29      A16S
ATOM   1433  C4  C   A  73     111.368  30.320  21.092  1.00 56.29      A16S
ATOM   1434  N4  C   A  73     110.124  30.800  21.151  1.00 56.29      A16S
ATOM   1435  C5  C   A  73     111.675  29.254  20.199  1.00 56.29      A16S
ATOM   1436  C2* C   A  73     115.599  28.037  22.195  1.00 57.94      A16S
ATOM   1437  O2* C   A  73     116.975  28.171  22.478  1.00 57.94      A16S
ATOM   1438  C3* C   A  73     115.208  26.644  21.726  1.00 57.94      A16S
ATOM   1439  O3* C   A  73     115.804  25.608  22.475  1.00 57.94      A16S
ATOM   1440  P   C   A  74     114.983  24.952  23.684  1.00 85.25      A16S
ATOM   1441  O1P C   A  74     115.759  23.771  24.104  1.00 35.94      A16S
ATOM   1442  O2P C   A  74     113.556  24.787  23.300  1.00 35.94      A16S
ATOM   1443  O5* C   A  74     115.057  26.072  24.810  1.00 85.25      A16S
ATOM   1444  C5* C   A  74     116.319  26.440  25.381  1.00 85.25      A16S
ATOM   1445  C4* C   A  74     116.116  27.392  26.531  1.00 85.25      A16S
ATOM   1446  O4* C   A  74     115.837  28.726  26.034  1.00 85.25      A16S
ATOM   1447  C1* C   A  74     114.896  29.362  26.880  1.00 85.25      A16S
ATOM   1448  N1  C   A  74     113.660  29.570  26.110  1.00 35.94      A16S
ATOM   1449  C6  C   A  74     113.323  28.721  25.092  1.00 35.94      A16S
ATOM   1450  C2  C   A  74     112.815  30.636  26.448  1.00 35.94      A16S
ATOM   1451  O2  C   A  74     113.158  31.410  27.342  1.00 35.94      A16S
ATOM   1452  N3  C   A  74     111.647  30.794  25.784  1.00 35.94      A16S
ATOM   1453  C4  C   A  74     111.317  29.946  24.810  1.00 35.94      A16S
ATOM   1454  N4  C   A  74     110.150  30.119  24.199  1.00 35.94      A16S
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ATOM   1455  C5  C   A  74     112.173  28.871  24.423  1.00 35.94      A16S
ATOM   1456  C2* C   A  74     114.626  28.423  28.056  1.00 85.25      A16S
ATOM   1457  O2* C   A  74     115.471  28.752  29.142  1.00 85.25      A16S
ATOM   1458  C3* C   A  74     114.942  27.069  27.438  1.00 85.25      A16S
ATOM   1459  O3* C   A  74     115.231  26.062  28.392  1.00 85.25      A16S
ATOM   1460  P   G   A  75     114.052  25.095  28.889  1.00 82.60      A16S
ATOM   1461  O1P G   A  75     114.691  24.205  29.887  1.00 65.08      A16S
ATOM   1462  O2P G   A  75     113.383  24.500  27.704  1.00 65.08      A16S
ATOM   1463  O5* G   A  75     113.032  26.088  29.618  1.00 82.60      A16S
ATOM   1464  C5* G   A  75     113.484  26.872  30.734  1.00 82.60      A16S
ATOM   1465  C4* G   A  75     112.426  27.841  31.234  1.00 82.60      A16S
ATOM   1466  O4* G   A  75     112.204  28.924  30.297  1.00 82.60      A16S
ATOM   1467  C1* G   A  75     110.959  29.541  30.592  1.00 82.60      A16S
ATOM   1468  N9  G   A  75     110.085  29.509  29.424  1.00 65.08      A16S
ATOM   1469  C4  G   A  75     108.962  30.281  29.250  1.00 65.08      A16S
ATOM   1470  N3  G   A  75     108.507  31.212  30.109  1.00 65.08      A16S
ATOM   1471  C2  G   A  75     107.395  31.769  29.684  1.00 65.08      A16S
ATOM   1472  N2  G   A  75     106.805  32.713  30.424  1.00 65.08      A16S
ATOM   1473  N1  G   A  75     106.776  31.443  28.504  1.00 65.08      A16S
ATOM   1474  C6  G   A  75     107.226  30.489  27.600  1.00 65.08      A16S
ATOM   1475  O6  G   A  75     106.587  30.270  26.556  1.00 65.08      A16S
ATOM   1476  C5  G   A  75     108.422  29.879  28.049  1.00 65.08      A16S
ATOM   1477  N7  G   A  75     109.196  28.883  27.471  1.00 65.08      A16S
ATOM   1478  C8  G   A  75     110.175  28.701  28.317  1.00 65.08      A16S
ATOM   1479  C2* G   A  75     110.303  28.735  31.708  1.00 82.60      A16S
ATOM   1480  O2* G   A  75     110.567  29.381  32.935  1.00 82.60      A16S
ATOM   1481  C3* G   A  75     111.017  27.392  31.595  1.00 82.60      A16S
ATOM   1482  O3* G   A  75     110.902  26.698  32.837  1.00 82.60      A16S
ATOM   1483  P   C   A  76     109.529  25.920  33.191  1.00 59.85      A16S
ATOM   1484  O1P C   A  76     109.727  25.306  34.535  1.00 71.65      A16S
ATOM   1485  O2P C   A  76     109.118  25.057  32.043  1.00 71.65      A16S
ATOM   1486  O5* C   A  76     108.458  27.090  33.344  1.00 59.85      A16S
ATOM   1487  C5* C   A  76     108.565  28.016  34.431  1.00 59.85      A16S
ATOM   1488  C4* C   A  76     107.391  28.964  34.452  1.00 59.85      A16S
ATOM   1489  O4* C   A  76     107.399  29.795  33.264  1.00 59.85      A16S
ATOM   1490  C1* C   A  76     106.071  30.120  32.905  1.00 59.85      A16S
ATOM   1491  N1  C   A  76     105.805  29.555  31.577  1.00 71.65      A16S
ATOM   1492  C6  C   A  76     106.670  28.665  31.012  1.00 71.65      A16S
ATOM   1493  C2  C   A  76     104.635  29.926  30.906  1.00 71.65      A16S
ATOM   1494  O2  C   A  76     103.882  30.757  31.427  1.00 71.65      A16S
ATOM   1495  N3  C   A  76     104.357  29.370  29.710  1.00 71.65      A16S
ATOM   1496  C4  C   A  76     105.200  28.486  29.178  1.00 71.65      A16S
ATOM   1497  N4  C   A  76     104.882  27.947  28.000  1.00 71.65      A16S
ATOM   1498  C5  C   A  76     106.408  28.109  29.828  1.00 71.65      A16S
ATOM   1499  C2* C   A  76     105.151  29.501  33.957  1.00 59.85      A16S
ATOM   1500  O2* C   A  76     104.889  30.462  34.959  1.00 59.85      A16S
ATOM   1501  C3* C   A  76     106.006  28.352  34.467  1.00 59.85      A16S
ATOM   1502  O3* C   A  76     105.611  27.893  35.747  1.00 59.85      A16S
ATOM   1503  P   G   A  77     104.612  26.641  35.850  1.00 43.54      A16S
ATOM   1504  O1P G   A  77     104.610  26.156  37.244  1.00 48.89      A16S
ATOM   1505  O2P G   A  77     104.908  25.685  34.751  1.00 48.89      A16S
ATOM   1506  O5* G   A  77     103.193  27.299  35.557  1.00 43.54      A16S
ATOM   1507  C5* G   A  77     102.682  28.362  36.386  1.00 43.54      A16S
ATOM   1508  C4* G   A  77     101.386  28.887  35.820  1.00 43.54      A16S
ATOM   1509  O4* G   A  77     101.646  29.599  34.585  1.00 43.54      A16S
ATOM   1510  C1* G   A  77     100.598  29.364  33.654  1.00 43.54      A16S
ATOM   1511  N9  G   A  77     101.136  28.649  32.499  1.00 48.89      A16S
ATOM   1512  C4  G   A  77     100.501  28.446  31.302  1.00 48.89      A16S
ATOM   1513  N3  G   A  77      99.294  28.920  30.965  1.00 48.89      A16S
ATOM   1514  C2  G   A  77      98.932  28.537  29.759  1.00 48.89      A16S
ATOM   1515  N2  G   A  77      97.754  28.934  29.265  1.00 48.89      A16S
ATOM   1516  N1  G   A  77      99.691  27.737  28.950  1.00 48.89      A16S
ATOM   1517  C6  G   A  77     100.934  27.224  29.283  1.00 48.89      A16S
ATOM   1518  O6  G   A  77     101.523  26.477  28.492  1.00 48.89      A16S
ATOM   1519  C5  G   A  77     101.343  27.653  30.569  1.00 48.89      A16S
ATOM   1520  N7  G   A  77     102.508  27.395  31.271  1.00 48.89      A16S
ATOM   1521  C8  G   A  77     102.344  28.010  32.406  1.00 48.89      A16S
ATOM   1522  C2* G   A  77      99.560  28.500  34.355  1.00 43.54      A16S
ATOM   1523  O2* G   A  77      98.568  29.327  34.906  1.00 43.54      A16S
ATOM   1524  C3* G   A  77     100.402  27.815  35.413  1.00 43.54      A16S
ATOM   1525  O3* G   A  77      99.621  27.348  36.472  1.00 43.54      A16S
ATOM   1526  P   G   A  78      98.829  25.973  36.290  1.00 38.46      A16S
ATOM   1527  O1P G   A  78      98.130  25.702  37.575  1.00 44.84      A16S
ATOM   1528  O2P G   A  78      99.774  24.964  35.741  1.00 44.84      A16S
ATOM   1529  O5* G   A  78      97.752  26.292  35.163  1.00 38.46      A16S
ATOM   1530  C5* G   A  78      96.670  27.164  35.443  1.00 38.46      A16S
ATOM   1531  C4* G   A  78      95.735  27.230  34.274  1.00 38.46      A16S
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ATOM	1532	O4*	G	A	78	96.457	27.688	33.106	1.00	38.46	A16S
ATOM	1533	C1*	G	A	78	95.885	27.121	31.942	1.00	38.46	A16S
ATOM	1534	N9	G	A	78	96.913	26.376	31.223	1.00	44.84	A16S
ATOM	1535	C4	G	A	78	96.828	25.921	29.931	1.00	44.84	A16S
ATOM	1536	N3	G	A	78	95.796	26.115	29.090	1.00	44.84	A16S
ATOM	1537	C2	G	A	78	95.990	25.523	27.926	1.00	44.84	A16S
ATOM	1538	N2	G	A	78	95.057	25.606	26.975	1.00	44.84	A16S
ATOM	1539	N1	G	A	78	97.106	24.804	27.613	1.00	44.84	A16S
ATOM	1540	C6	G	A	78	98.178	24.593	28.462	1.00	44.84	A16S
ATOM	1541	O6	G	A	78	99.126	23.917	28.087	1.00	44.84	A16S
ATOM	1542	C5	G	A	78	97.991	25.224	29.710	1.00	44.84	A16S
ATOM	1543	N7	G	A	78	98.813	25.270	30.827	1.00	44.84	A16S
ATOM	1544	C8	G	A	78	98.134	25.968	31.697	1.00	44.84	A16S
ATOM	1545	C2*	G	A	78	94.725	26.229	32.384	1.00	38.46	A16S
ATOM	1546	O2*	G	A	78	93.507	26.945	32.273	1.00	38.46	A16S
ATOM	1547	C3*	G	A	78	95.101	25.926	33.831	1.00	38.46	A16S
ATOM	1548	O3*	G	A	78	93.972	25.576	34.625	1.00	38.46	A16S
ATOM	1549	P	G	A	79	93.293	24.133	34.432	1.00	46.66	A16S
ATOM	1550	O1P	G	A	79	94.388	23.129	34.382	1.00	49.21	A16S
ATOM	1551	O2P	G	A	79	92.177	23.971	35.406	1.00	49.21	A16S
ATOM	1552	O5*	G	A	79	92.666	24.213	32.974	1.00	46.66	A16S
ATOM	1553	C5*	G	A	79	92.442	23.032	32.205	1.00	46.66	A16S
ATOM	1554	C4*	G	A	79	92.069	23.398	30.793	1.00	46.66	A16S
ATOM	1555	O4*	G	A	79	93.199	24.008	30.127	1.00	46.66	A16S
ATOM	1556	C1*	G	A	79	93.290	23.539	28.793	1.00	46.66	A16S
ATOM	1557	N9	G	A	79	94.535	22.787	28.682	1.00	49.21	A16S
ATOM	1558	C4	G	A	79	94.940	21.998	27.631	1.00	49.21	A16S
ATOM	1559	N3	G	A	79	94.258	21.780	26.492	1.00	49.21	A16S
ATOM	1560	C2	G	A	79	94.914	20.983	25.671	1.00	49.21	A16S
ATOM	1561	N2	G	A	79	94.401	20.688	24.472	1.00	49.21	A16S
ATOM	1562	N1	G	A	79	96.123	20.422	25.956	1.00	49.21	A16S
ATOM	1563	C6	G	A	79	96.836	20.618	27.130	1.00	49.21	A16S
ATOM	1564	O6	G	A	79	97.920	20.038	27.304	1.00	49.21	A16S
ATOM	1565	C5	G	A	79	96.162	21.496	28.005	1.00	49.21	A16S
ATOM	1566	N7	G	A	79	96.528	21.967	29.256	1.00	49.21	A16S
ATOM	1567	C8	G	A	79	95.534	22.723	29.619	1.00	49.21	A16S
ATOM	1568	C2*	G	A	79	92.061	22.672	28.530	1.00	46.66	A16S
ATOM	1569	O2*	G	A	79	91.052	23.460	27.932	1.00	46.66	A16S
ATOM	1570	C3*	G	A	79	91.729	22.201	29.937	1.00	46.66	A16S
ATOM	1571	O3*	G	A	79	90.381	21.841	30.135	1.00	46.66	A16S
ATOM	1572	P	G	A	80	90.039	20.354	30.591	1.00	56.69	A16S
ATOM	1573	O1P	G	A	80	88.641	20.366	31.078	1.00	59.45	A16S
ATOM	1574	O2P	G	A	80	91.126	19.820	31.453	1.00	59.45	A16S
ATOM	1575	O5*	G	A	80	90.084	19.561	29.225	1.00	56.69	A16S
ATOM	1576	C5*	G	A	80	89.139	19.857	28.206	1.00	56.69	A16S
ATOM	1577	C4*	G	A	80	89.515	19.151	26.941	1.00	56.69	A16S
ATOM	1578	O4*	G	A	80	90.773	19.696	26.468	1.00	56.69	A16S
ATOM	1579	C1*	G	A	80	91.507	18.683	25.811	1.00	56.69	A16S
ATOM	1580	N9	G	A	80	92.790	18.517	26.489	1.00	59.45	A16S
ATOM	1581	C4	G	A	80	93.863	17.781	26.037	1.00	59.45	A16S
ATOM	1582	N3	G	A	80	93.917	17.079	24.885	1.00	59.45	A16S
ATOM	1583	C2	G	A	80	95.096	16.504	24.713	1.00	59.45	A16S
ATOM	1584	N2	G	A	80	95.339	15.794	23.603	1.00	59.45	A16S
ATOM	1585	N1	G	A	80	96.131	16.590	25.608	1.00	59.45	A16S
ATOM	1586	C6	G	A	80	96.100	17.301	26.800	1.00	59.45	A16S
ATOM	1587	O6	G	A	80	97.098	17.318	27.531	1.00	59.45	A16S
ATOM	1588	C5	G	A	80	94.842	17.938	26.993	1.00	59.45	A16S
ATOM	1589	N7	G	A	80	94.394	18.745	28.028	1.00	59.45	A16S
ATOM	1590	C8	G	A	80	93.173	19.061	27.689	1.00	59.45	A16S
ATOM	1591	C2*	G	A	80	90.657	17.412	25.828	1.00	56.69	A16S
ATOM	1592	O2*	G	A	80	89.939	17.357	24.607	1.00	56.69	A16S
ATOM	1593	C3*	G	A	80	89.766	17.653	27.045	1.00	56.69	A16S
ATOM	1594	O3*	G	A	80	88.560	16.871	27.081	1.00	56.69	A16S
ATOM	1595	P	U	A	81	88.628	15.281	27.352	1.00	128.42	A16S
ATOM	1596	O1P	U	A	81	89.126	14.640	26.111	1.00	200.27	A16S
ATOM	1597	O2P	U	A	81	87.310	14.881	27.901	1.00	200.27	A16S
ATOM	1598	O5*	U	A	81	89.717	15.048	28.499	1.00	128.42	A16S
ATOM	1599	C5*	U	A	81	91.121	15.349	28.288	1.00	128.42	A16S
ATOM	1600	C4*	U	A	81	91.968	14.083	28.204	1.00	128.42	A16S
ATOM	1601	O4*	U	A	81	93.321	14.488	27.856	1.00	128.42	A16S
ATOM	1602	C1*	U	A	81	94.263	13.677	28.538	1.00	128.42	A16S
ATOM	1603	N1	U	A	81	95.171	14.553	29.303	1.00	200.27	A16S
ATOM	1604	C6	U	A	81	94.683	15.510	30.172	1.00	200.27	A16S
ATOM	1605	C2	U	A	81	96.546	14.400	29.116	1.00	200.27	A16S
ATOM	1606	O2	U	A	81	97.035	13.558	28.375	1.00	200.27	A16S
ATOM	1607	N3	U	A	81	97.330	15.274	29.833	1.00	200.27	A16S
ATOM	1608	C4	U	A	81	96.900	16.260	30.702	1.00	200.27	A16S

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ATOM   1609  O4  U   A  81      97.730  17.002  31.234  1.00200.27      A16S
ATOM   1610  C5  U   A  81      95.478  16.343  30.857  1.00200.27      A16S
ATOM   1611  C2* U   A  81      93.499  12.625  29.352  1.00128.42      A16S
ATOM   1612  O2* U   A  81      93.495  11.391  28.656  1.00128.42      A16S
ATOM   1613  C3* U   A  81      92.108  13.253  29.483  1.00128.42      A16S
ATOM   1614  O3* U   A  81      91.120  12.215  29.531  1.00128.42      A16S
ATOM   1615  P   U   A  82      90.209  12.020  30.846  1.00 88.28      A16S
ATOM   1616  O1P U   A  82      89.367  10.806  30.620  1.00 90.84      A16S
ATOM   1617  O2P U   A  82      89.546  13.328  31.117  1.00 90.84      A16S
ATOM   1618  O5* U   A  82      91.241  11.715  32.027  1.00 88.28      A16S
ATOM   1619  C5* U   A  82      90.986  12.200  33.363  1.00 88.28      A16S
ATOM   1620  C4* U   A  82      91.543  11.252  34.403  1.00 88.28      A16S
ATOM   1621  O4* U   A  82      90.871   9.967  34.336  1.00 88.28      A16S
ATOM   1622  C1* U   A  82      91.785   8.931  34.680  1.00 88.28      A16S
ATOM   1623  N1  U   A  82      91.872   7.972  33.562  1.00 90.84      A16S
ATOM   1624  C6  U   A  82      91.079   8.098  32.446  1.00 90.84      A16S
ATOM   1625  C2  U   A  82      92.791   6.933  33.660  1.00 90.84      A16S
ATOM   1626  O2  U   A  82      93.497   6.755  34.639  1.00 90.84      A16S
ATOM   1627  N3  U   A  82      92.846   6.104  32.569  1.00 90.84      A16S
ATOM   1628  C4  U   A  82      92.092   6.189  31.425  1.00 90.84      A16S
ATOM   1629  O4  U   A  82      92.291   5.393  30.510  1.00 90.84      A16S
ATOM   1630  C5  U   A  82      91.155   7.265  31.407  1.00 90.84      A16S
ATOM   1631  C2* U   A  82      93.128   9.589  35.014  1.00 88.28      A16S
ATOM   1632  O2* U   A  82      93.248   9.736  36.412  1.00 88.28      A16S
ATOM   1633  C3* U   A  82      93.019  10.920  34.281  1.00 88.28      A16S
ATOM   1634  O3* U   A  82      93.838  11.922  34.857  1.00 88.28      A16S
ATOM   1635  P   U   A  83      95.077  12.495  34.018  1.00 95.98      A16S
ATOM   1636  O1P U   A  83      95.733  13.545  34.835  1.00 82.93      A16S
ATOM   1637  O2P U   A  83      94.584  12.825  32.659  1.00 82.93      A16S
ATOM   1638  O5* U   A  83      96.073  11.259  33.919  1.00 95.98      A16S
ATOM   1639  C5* U   A  83      96.764  10.802  35.086  1.00 95.98      A16S
ATOM   1640  C4* U   A  83      97.623   9.611  34.762  1.00 95.98      A16S
ATOM   1641  O4* U   A  83      96.782   8.494  34.390  1.00 95.98      A16S
ATOM   1642  C1* U   A  83      97.446   7.700  33.423  1.00 95.98      A16S
ATOM   1643  N1  U   A  83      96.612   7.620  32.213  1.00 82.93      A16S
ATOM   1644  C6  U   A  83      95.437   8.324  32.095  1.00 82.93      A16S
ATOM   1645  C2  U   A  83      97.047   6.795  31.192  1.00 82.93      A16S
ATOM   1646  O2  U   A  83      98.096   6.160  31.249  1.00 82.93      A16S
ATOM   1647  N3  U   A  83      96.214   6.739  30.102  1.00 82.93      A16S
ATOM   1648  C4  U   A  83      95.025   7.408  29.931  1.00 82.93      A16S
ATOM   1649  O4  U   A  83      94.391   7.255  28.890  1.00 82.93      A16S
ATOM   1650  C5  U   A  83      94.651   8.246  31.020  1.00 82.93      A16S
ATOM   1651  C2* U   A  83      98.818   8.322  33.174  1.00 95.98      A16S
ATOM   1652  O2* U   A  83      99.769   7.660  33.988  1.00 95.98      A16S
ATOM   1653  C3* U   A  83      98.579   9.765  33.595  1.00 95.98      A16S
ATOM   1654  O3* U   A  83      99.779  10.427  33.962  1.00 95.98      A16S
ATOM   1655  P   U   A  84     100.440  11.472  32.940  1.00 96.68      A16S
ATOM   1656  O1P U   A  84     101.629  12.063  33.600  1.00 43.71      A16S
ATOM   1657  O2P U   A  84      99.341  12.355  32.469  1.00 43.71      A16S
ATOM   1658  O5* U   A  84     100.932  10.567  31.720  1.00 96.68      A16S
ATOM   1659  C5* U   A  84     102.027   9.639  31.889  1.00 96.68      A16S
ATOM   1660  C4* U   A  84     102.244   8.822  30.632  1.00 96.68      A16S
ATOM   1661  O4* U   A  84     101.093   7.971  30.393  1.00 96.68      A16S
ATOM   1662  C1* U   A  84     100.883   7.836  29.000  1.00 96.68      A16S
ATOM   1663  N1  U   A  84      99.576   8.418  28.666  1.00 43.71      A16S
ATOM   1664  C6  U   A  84      98.940   9.288  29.522  1.00 43.71      A16S
ATOM   1665  C2  U   A  84      99.001   8.066  27.453  1.00 43.71      A16S
ATOM   1666  O2  U   A  84      99.539   7.324  26.651  1.00 43.71      A16S
ATOM   1667  N3  U   A  84      97.776   8.627  27.209  1.00 43.71      A16S
ATOM   1668  C4  U   A  84      97.085   9.499  28.023  1.00 43.71      A16S
ATOM   1669  O4  U   A  84      95.976   9.908  27.666  1.00 43.71      A16S
ATOM   1670  C5  U   A  84      97.751   9.830  29.248  1.00 43.71      A16S
ATOM   1671  C2* U   A  84     102.014   8.571  28.285  1.00 96.68      A16S
ATOM   1672  O2* U   A  84     103.037   7.649  27.964  1.00 96.68      A16S
ATOM   1673  C3* U   A  84     102.424   9.596  29.335  1.00 96.68      A16S
ATOM   1674  O3* U   A  84     103.759  10.065  29.146  1.00 96.68      A16S
ATOM   1675  P   A   A  88     104.012  11.453  28.362  1.00 88.23      A16S
ATOM   1676  O1P A   A  88     105.462  11.788  28.526  1.00 82.67      A16S
ATOM   1677  O2P A   A  88     102.966  12.445  28.774  1.00 82.67      A16S
ATOM   1678  O5* A   A  88     103.728  11.098  26.833  1.00 88.23      A16S
ATOM   1679  C5* A   A  88     104.519  10.120  26.137  1.00 88.23      A16S
ATOM   1680  C4* A   A  88     103.831   9.710  24.859  1.00 88.23      A16S
ATOM   1681  O4* A   A  88     102.556   9.100  25.182  1.00 88.23      A16S
ATOM   1682  C1* A   A  88     101.599   9.427  24.191  1.00 88.23      A16S
ATOM   1683  N9  A   A  88     100.511  10.170  24.827  1.00 82.67      A16S
ATOM   1684  C4  A   A  88      99.274  10.430  24.284  1.00 82.67      A16S
ATOM   1685  N3  A   A  88      98.805  10.030  23.087  1.00 82.67      A16S
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ATOM   1686  C2  A   A  88      97.568  10.496  22.885  1.00 82.67      A16S
ATOM   1687  N1  A   A  88      96.806  11.264  23.682  1.00 82.67      A16S
ATOM   1688  C6  A   A  88      97.307  11.651  24.876  1.00 82.67      A16S
ATOM   1689  N6  A   A  88      96.554  12.425  25.663  1.00 82.67      A16S
ATOM   1690  C5  A   A  88      98.609  11.213  25.214  1.00 82.67      A16S
ATOM   1691  N7  A   A  88      99.401  11.419  26.336  1.00 82.67      A16S
ATOM   1692  C8  A   A  88     100.512  10.778  26.060  1.00 82.67      A16S
ATOM   1693  C2* A   A  88     102.309  10.257  23.122  1.00 88.23      A16S
ATOM   1694  O2* A   A  88     102.708   9.407  22.067  1.00 88.23      A16S
ATOM   1695  C3* A   A  88     103.480  10.839  23.907  1.00 88.23      A16S
ATOM   1696  O3* A   A  88     104.579  11.205  23.078  1.00 88.23      A16S
ATOM   1697  P   C   A  89     104.870  12.762  22.784  1.00 62.89      A16S
ATOM   1698  O1P C   A  89     105.969  12.829  21.791  1.00 81.35      A16S
ATOM   1699  O2P C   A  89     105.009  13.480  24.079  1.00 81.35      A16S
ATOM   1700  O5* C   A  89     103.540  13.273  22.074  1.00 62.89      A16S
ATOM   1701  C5* C   A  89     103.104  12.687  20.834  1.00 62.89      A16S
ATOM   1702  C4* C   A  89     101.703  13.139  20.493  1.00 62.89      A16S
ATOM   1703  O4* C   A  89     100.788  12.682  21.521  1.00 62.89      A16S
ATOM   1704  C1* C   A  89      99.759  13.640  21.711  1.00 62.89      A16S
ATOM   1705  N1  C   A  89      99.832  14.160  23.093  1.00 81.35      A16S
ATOM   1706  C6  C   A  89     100.922  13.918  23.884  1.00 81.35      A16S
ATOM   1707  C2  C   A  89      98.750  14.907  23.591  1.00 81.35      A16S
ATOM   1708  O2  C   A  89      97.779  15.141  22.842  1.00 81.35      A16S
ATOM   1709  N3  C   A  89      98.791  15.354  24.871  1.00 81.35      A16S
ATOM   1710  C4  C   A  89      99.851  15.085  25.639  1.00 81.35      A16S
ATOM   1711  N4  C   A  89      99.837  15.517  26.908  1.00 81.35      A16S
ATOM   1712  C5  C   A  89     100.972  14.355  25.148  1.00 81.35      A16S
ATOM   1713  C2* C   A  89      99.967  14.738  20.679  1.00 62.89      A16S
ATOM   1714  O2* C   A  89      99.186  14.414  19.545  1.00 62.89      A16S
ATOM   1715  C3* C   A  89     101.468  14.638  20.440  1.00 62.89      A16S
ATOM   1716  O3* C   A  89     101.891  15.241  19.225  1.00 62.89      A16S
ATOM   1717  P   U   A  90     102.457  16.747  19.256  1.00 61.42      A16S
ATOM   1718  O1P U   A  90     103.016  17.055  17.911  1.00 66.35      A16S
ATOM   1719  O2P U   A  90     103.325  16.883  20.467  1.00 66.35      A16S
ATOM   1720  O5* U   A  90     101.148  17.629  19.489  1.00 61.42      A16S
ATOM   1721  C5* U   A  90      99.956  17.410  18.696  1.00 61.42      A16S
ATOM   1722  C4* U   A  90      98.750  18.063  19.340  1.00 61.42      A16S
ATOM   1723  O4* U   A  90      98.455  17.428  20.607  1.00 61.42      A16S
ATOM   1724  C1* U   A  90      97.927  18.384  21.507  1.00 61.42      A16S
ATOM   1725  N1  U   A  90      98.778  18.424  22.706  1.00 66.35      A16S
ATOM   1726  C6  U   A  90     100.147  18.379  22.614  1.00 66.35      A16S
ATOM   1727  C2  U   A  90      98.154  18.500  23.934  1.00 66.35      A16S
ATOM   1728  O2  U   A  90      96.946  18.577  24.062  1.00 66.35      A16S
ATOM   1729  N3  U   A  90      98.999  18.492  25.010  1.00 66.35      A16S
ATOM   1730  C4  U   A  90     100.372  18.436  24.985  1.00 66.35      A16S
ATOM   1731  O4  U   A  90     100.995  18.413  26.046  1.00 66.35      A16S
ATOM   1732  C5  U   A  90     100.941  18.385  23.681  1.00 66.35      A16S
ATOM   1733  C2* U   A  90      97.845  19.720  20.774  1.00 61.42      A16S
ATOM   1734  O2* U   A  90      96.552  19.872  20.229  1.00 61.42      A16S
ATOM   1735  C3* U   A  90      98.879  19.535  19.679  1.00 61.42      A16S
ATOM   1736  O3* U   A  90      98.576  20.355  18.570  1.00 61.42      A16S
ATOM   1737  P   C   A  91      99.064  21.879  18.570  1.00 33.97      A16S
ATOM   1738  O1P C   A  91      99.069  22.346  17.166  1.00 36.33      A16S
ATOM   1739  O2P C   A  91     100.298  21.993  19.400  1.00 36.33      A16S
ATOM   1740  O5* C   A  91      97.909  22.644  19.338  1.00 33.97      A16S
ATOM   1741  C5* C   A  91      96.591  22.698  18.794  1.00 33.97      A16S
ATOM   1742  C4* C   A  91      95.691  23.494  19.702  1.00 33.97      A16S
ATOM   1743  O4* C   A  91      95.404  22.745  20.908  1.00 33.97      A16S
ATOM   1744  C1* C   A  91      95.293  23.630  21.997  1.00 33.97      A16S
ATOM   1745  N1  C   A  91      96.360  23.325  22.950  1.00 36.33      A16S
ATOM   1746  C6  C   A  91      97.466  22.645  22.550  1.00 36.33      A16S
ATOM   1747  C2  C   A  91      96.234  23.752  24.276  1.00 36.33      A16S
ATOM   1748  O2  C   A  91      95.215  24.360  24.620  1.00 36.33      A16S
ATOM   1749  N3  C   A  91      97.223  23.496  25.149  1.00 36.33      A16S
ATOM   1750  C4  C   A  91      98.310  22.843  24.743  1.00 36.33      A16S
ATOM   1751  N4  C   A  91      99.288  22.626  25.633  1.00 36.33      A16S
ATOM   1752  C5  C   A  91      98.455  22.384  23.401  1.00 36.33      A16S
ATOM   1753  C2* C   A  91      95.433  25.043  21.444  1.00 33.97      A16S
ATOM   1754  O2* C   A  91      94.156  25.520  21.078  1.00 33.97      A16S
ATOM   1755  C3* C   A  91      96.262  24.802  20.202  1.00 33.97      A16S
ATOM   1756  O3* C   A  91      96.095  25.850  19.275  1.00 33.97      A16S
ATOM   1757  P   C   A  92      96.854  27.244  19.525  1.00 53.76      A16S
ATOM   1758  O1P C   A  92      96.408  28.217  18.481  1.00 43.69      A16S
ATOM   1759  O2P C   A  92      98.306  26.954  19.711  1.00 43.69      A16S
ATOM   1760  O5* C   A  92      96.309  27.753  20.934  1.00 53.76      A16S
ATOM   1761  C5* C   A  92      94.967  28.246  21.073  1.00 53.76      A16S
ATOM   1762  C4* C   A  92      94.815  28.969  22.381  1.00 53.76      A16S
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ATOM	1763	O4*	C	A	92	94.947	28.029	23.472	1.00	53.76	A16S
ATOM	1764	C1*	C	A	92	95.639	28.643	24.541	1.00	53.76	A16S
ATOM	1765	N1	C	A	92	96.891	27.904	24.760	1.00	43.69	A16S
ATOM	1766	C6	C	A	92	97.404	27.097	23.787	1.00	43.69	A16S
ATOM	1767	C2	C	A	92	97.554	28.030	25.996	1.00	43.69	A16S
ATOM	1768	O2	C	A	92	97.089	28.781	26.849	1.00	43.69	A16S
ATOM	1769	N3	C	A	92	98.687	27.328	26.219	1.00	43.69	A16S
ATOM	1770	C4	C	A	92	99.169	26.528	25.267	1.00	43.69	A16S
ATOM	1771	N4	C	A	92	100.280	25.837	25.531	1.00	43.69	A16S
ATOM	1772	C5	C	A	92	98.529	26.396	23.995	1.00	43.69	A16S
ATOM	1773	C2*	C	A	92	95.889	30.099	24.155	1.00	53.76	A16S
ATOM	1774	O2*	C	A	92	94.839	30.918	24.633	1.00	53.76	A16S
ATOM	1775	C3*	C	A	92	95.884	30.010	22.643	1.00	53.76	A16S
ATOM	1776	O3*	C	A	92	95.592	31.250	22.031	1.00	53.76	A16S
ATOM	1777	P	G	A	93	96.778	32.310	21.798	1.00	39.50	A16S
ATOM	1778	O1P	G	A	93	96.239	33.387	20.927	1.00	59.87	A16S
ATOM	1779	O2P	G	A	93	98.003	31.590	21.384	1.00	59.87	A16S
ATOM	1780	O5*	G	A	93	97.052	32.890	23.253	1.00	39.50	A16S
ATOM	1781	C5*	G	A	93	95.990	33.467	24.015	1.00	39.50	A16S
ATOM	1782	C4*	G	A	93	96.436	33.710	25.430	1.00	39.50	A16S
ATOM	1783	O4*	G	A	93	96.650	32.450	26.110	1.00	39.50	A16S
ATOM	1784	C1*	G	A	93	97.709	32.590	27.042	1.00	39.50	A16S
ATOM	1785	N9	G	A	93	98.763	31.651	26.684	1.00	59.87	A16S
ATOM	1786	C4	G	A	93	99.814	31.270	27.476	1.00	59.87	A16S
ATOM	1787	N3	G	A	93	100.060	31.702	28.728	1.00	59.87	A16S
ATOM	1788	C2	G	A	93	101.138	31.137	29.241	1.00	59.87	A16S
ATOM	1789	N2	G	A	93	101.521	31.441	30.480	1.00	59.87	A16S
ATOM	1790	N1	G	A	93	101.919	30.232	28.576	1.00	59.87	A16S
ATOM	1791	C6	G	A	93	101.695	29.789	27.279	1.00	59.87	A16S
ATOM	1792	O6	G	A	93	102.480	28.994	26.755	1.00	59.87	A16S
ATOM	1793	C5	G	A	93	100.531	30.371	26.723	1.00	59.87	A16S
ATOM	1794	N7	G	A	93	99.946	30.194	25.479	1.00	59.87	A16S
ATOM	1795	C8	G	A	93	98.904	30.975	25.500	1.00	59.87	A16S
ATOM	1796	C2*	G	A	93	98.207	34.031	26.971	1.00	39.50	A16S
ATOM	1797	O2*	G	A	93	97.596	34.822	27.967	1.00	39.50	A16S
ATOM	1798	C3*	G	A	93	97.755	34.437	25.582	1.00	39.50	A16S
ATOM	1799	O3*	G	A	93	97.633	35.832	25.469	1.00	39.50	A16S
ATOM	1800	P	U	A	95	98.848	36.659	24.842	1.00	49.36	A16S
ATOM	1801	O1P	U	A	95	98.390	38.063	24.716	1.00	77.31	A16S
ATOM	1802	O2P	U	A	95	99.317	35.925	23.638	1.00	77.31	A16S
ATOM	1803	O5*	U	A	95	99.980	36.585	25.964	1.00	49.36	A16S
ATOM	1804	C5*	U	A	95	99.737	37.108	27.282	1.00	49.36	A16S
ATOM	1805	C4*	U	A	95	100.848	36.715	28.233	1.00	49.36	A16S
ATOM	1806	O4*	U	A	95	100.861	35.275	28.432	1.00	49.36	A16S
ATOM	1807	C1*	U	A	95	102.192	34.840	28.655	1.00	49.36	A16S
ATOM	1808	N1	U	A	95	102.565	33.880	27.603	1.00	77.31	A16S
ATOM	1809	C6	U	A	95	101.936	33.863	26.378	1.00	77.31	A16S
ATOM	1810	C2	U	A	95	103.592	33.000	27.879	1.00	77.31	A16S
ATOM	1811	O2	U	A	95	104.163	32.968	28.954	1.00	77.31	A16S
ATOM	1812	N3	U	A	95	103.929	32.156	26.851	1.00	77.31	A16S
ATOM	1813	C4	U	A	95	103.353	32.094	25.603	1.00	77.31	A16S
ATOM	1814	O4	U	A	95	103.754	31.256	24.791	1.00	77.31	A16S
ATOM	1815	C5	U	A	95	102.288	33.025	25.395	1.00	77.31	A16S
ATOM	1816	C2*	U	A	95	103.097	36.074	28.627	1.00	49.36	A16S
ATOM	1817	O2*	U	A	95	103.341	36.550	29.933	1.00	49.36	A16S
ATOM	1818	C3*	U	A	95	102.266	37.049	27.805	1.00	49.36	A16S
ATOM	1819	O3*	U	A	95	102.628	38.397	28.069	1.00	49.36	A16S
ATOM	1820	P	G	A	96	103.889	39.046	27.299	1.00	71.49	A16S
ATOM	1821	O1P	G	A	96	103.873	40.506	27.572	1.00	86.81	A16S
ATOM	1822	O2P	G	A	96	103.902	38.566	25.890	1.00	86.81	A16S
ATOM	1823	O5*	G	A	96	105.146	38.426	28.050	1.00	71.49	A16S
ATOM	1824	C5*	G	A	96	105.406	38.784	29.405	1.00	71.49	A16S
ATOM	1825	C4*	G	A	96	106.746	38.265	29.839	1.00	71.49	A16S
ATOM	1826	O4*	G	A	96	106.705	36.821	29.912	1.00	71.49	A16S
ATOM	1827	C1*	G	A	96	107.992	36.301	29.626	1.00	71.49	A16S
ATOM	1828	N9	G	A	96	107.918	35.418	28.465	1.00	86.81	A16S
ATOM	1829	C4	G	A	96	108.831	34.448	28.156	1.00	86.81	A16S
ATOM	1830	N3	G	A	96	109.918	34.138	28.881	1.00	86.81	A16S
ATOM	1831	C2	G	A	96	110.613	33.170	28.334	1.00	86.81	A16S
ATOM	1832	N2	G	A	96	111.716	32.734	28.942	1.00	86.81	A16S
ATOM	1833	N1	G	A	96	110.276	32.559	27.158	1.00	86.81	A16S
ATOM	1834	C6	G	A	96	109.160	32.865	26.391	1.00	86.81	A16S
ATOM	1835	O6	G	A	96	108.948	32.253	25.340	1.00	86.81	A16S
ATOM	1836	C5	G	A	96	108.398	33.897	26.974	1.00	86.81	A16S
ATOM	1837	N7	G	A	96	107.222	34.501	26.550	1.00	86.81	A16S
ATOM	1838	C8	G	A	96	106.972	35.395	27.467	1.00	86.81	A16S
ATOM	1839	C2*	G	A	96	108.915	37.480	29.346	1.00	71.49	A16S

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ATOM   1840  O2* G   A  96     109.591  37.825  30.534  1.00 71.49      A16S
ATOM   1841  C3* G   A  96     107.921  38.547  28.924  1.00 71.49      A16S
ATOM   1842  O3* G   A  96     108.461  39.844  29.068  1.00 71.49      A16S
ATOM   1843  P   G   A  97     109.228  40.511  27.822  1.00 80.26      A16S
ATOM   1844  O1P G   A  97     109.673  41.851  28.286  1.00 68.72      A16S
ATOM   1845  O2P G   A  97     108.363  40.398  26.611  1.00 68.72      A16S
ATOM   1846  O5* G   A  97     110.513  39.589  27.620  1.00 80.26      A16S
ATOM   1847  C5* G   A  97     111.496  39.512  28.660  1.00 80.26      A16S
ATOM   1848  C4* G   A  97     112.564  38.496  28.338  1.00 80.26      A16S
ATOM   1849  O4* G   A  97     111.998  37.165  28.255  1.00 80.26      A16S
ATOM   1850  C1* G   A  97     112.827  36.363  27.436  1.00 80.26      A16S
ATOM   1851  N9  G   A  97     112.042  35.785  26.351  1.00 68.72      A16S
ATOM   1852  C4  G   A  97     112.483  34.791  25.515  1.00 68.72      A16S
ATOM   1853  N3  G   A  97     113.689  34.186  25.581  1.00 68.72      A16S
ATOM   1854  C2  G   A  97     113.843  33.284  24.636  1.00 68.72      A16S
ATOM   1855  N2  G   A  97     114.993  32.599  24.566  1.00 68.72      A16S
ATOM   1856  N1  G   A  97     112.884  32.991  23.695  1.00 68.72      A16S
ATOM   1857  C6  G   A  97     111.638  33.602  23.604  1.00 68.72      A16S
ATOM   1858  O6  G   A  97     110.856  33.269  22.710  1.00 68.72      A16S
ATOM   1859  C5  G   A  97     111.460  34.580  24.622  1.00 68.72      A16S
ATOM   1860  N7  G   A  97     110.387  35.418  24.898  1.00 68.72      A16S
ATOM   1861  C8  G   A  97     110.776  36.111  25.935  1.00 68.72      A16S
ATOM   1862  C2* G   A  97     113.934  37.253  26.872  1.00 80.26      A16S
ATOM   1863  O2* G   A  97     115.123  37.071  27.616  1.00 80.26      A16S
ATOM   1864  C3* G   A  97     113.333  38.641  27.039  1.00 80.26      A16S
ATOM   1865  O3* G   A  97     114.348  39.630  27.095  1.00 80.26      A16S
ATOM   1866  P   U   A  98     114.677  40.493  25.778  1.00 73.09      A16S
ATOM   1867  O1P U   A  98     115.697  41.501  26.161  1.00 51.72      A16S
ATOM   1868  O2P U   A  98     113.382  40.947  25.184  1.00 51.72      A16S
ATOM   1869  O5* U   A  98     115.370  39.439  24.804  1.00 73.09      A16S
ATOM   1870  C5* U   A  98     116.639  38.867  25.151  1.00 73.09      A16S
ATOM   1871  C4* U   A  98     117.017  37.770  24.187  1.00 73.09      A16S
ATOM   1872  O4* U   A  98     116.041  36.698  24.248  1.00 73.09      A16S
ATOM   1873  C1* U   A  98     115.930  36.076  22.978  1.00 73.09      A16S
ATOM   1874  N1  U   A  98     114.552  36.232  22.481  1.00 51.72      A16S
ATOM   1875  C6  U   A  98     113.745  37.259  22.920  1.00 51.72      A16S
ATOM   1876  C2  U   A  98     114.083  35.303  21.544  1.00 51.72      A16S
ATOM   1877  O2  U   A  98     114.766  34.378  21.105  1.00 51.72      A16S
ATOM   1878  N3  U   A  98     112.786  35.502  21.135  1.00 51.72      A16S
ATOM   1879  C4  U   A  98     111.929  36.506  21.545  1.00 51.72      A16S
ATOM   1880  O4  U   A  98     110.774  36.534  21.106  1.00 51.72      A16S
ATOM   1881  C5  U   A  98     112.489  37.422  22.496  1.00 51.72      A16S
ATOM   1882  C2* U   A  98     116.932  36.760  22.060  1.00 73.09      A16S
ATOM   1883  O2* U   A  98     118.147  36.046  22.118  1.00 73.09      A16S
ATOM   1884  C3* U   A  98     117.055  38.124  22.716  1.00 73.09      A16S
ATOM   1885  O3* U   A  98     118.237  38.786  22.312  1.00 73.09      A16S
ATOM   1886  P   C   A  99     118.235  39.588  20.919  1.00 56.42      A16S
ATOM   1887  O1P C   A  99     119.549  40.281  20.792  1.00 45.91      A16S
ATOM   1888  O2P C   A  99     116.962  40.380  20.844  1.00 45.91      A16S
ATOM   1889  O5* C   A  99     118.147  38.422  19.835  1.00 56.42      A16S
ATOM   1890  C5* C   A  99     119.213  37.468  19.700  1.00 56.42      A16S
ATOM   1891  C4* C   A  99     119.007  36.614  18.475  1.00 56.42      A16S
ATOM   1892  O4* C   A  99     117.945  35.657  18.692  1.00 56.42      A16S
ATOM   1893  C1* C   A  99     117.249  35.438  17.479  1.00 56.42      A16S
ATOM   1894  N1  C   A  99     115.855  35.872  17.653  1.00 45.91      A16S
ATOM   1895  C6  C   A  99     115.544  36.901  18.499  1.00 45.91      A16S
ATOM   1896  C2  C   A  99     114.836  35.219  16.921  1.00 45.91      A16S
ATOM   1897  O2  C   A  99     115.138  34.283  16.153  1.00 45.91      A16S
ATOM   1898  N3  C   A  99     113.556  35.631  17.069  1.00 45.91      A16S
ATOM   1899  C4  C   A  99     113.270  36.645  17.892  1.00 45.91      A16S
ATOM   1900  N4  C   A  99     111.992  37.028  17.994  1.00 45.91      A16S
ATOM   1901  C5  C   A  99     114.280  37.316  18.644  1.00 45.91      A16S
ATOM   1902  C2* C   A  99     117.932  36.268  16.397  1.00 56.42      A16S
ATOM   1903  O2* C   A  99     118.851  35.454  15.698  1.00 56.42      A16S
ATOM   1904  C3* C   A  99     118.594  37.359  17.223  1.00 56.42      A16S
ATOM   1905  O3* C   A  99     119.703  37.954  16.577  1.00 56.42      A16S
ATOM   1906  P   A   A 101     119.610  39.484  16.094  1.00 59.79      A16S
ATOM   1907  O1P A   A 101     121.004  39.972  16.109  1.00 45.52      A16S
ATOM   1908  O2P A   A 101     118.583  40.214  16.873  1.00 45.52      A16S
ATOM   1909  O5* A   A 101     119.059  39.374  14.598  1.00 59.79      A16S
ATOM   1910  C5* A   A 101     119.846  38.762  13.559  1.00 59.79      A16S
ATOM   1911  C4* A   A 101     119.046  37.702  12.833  1.00 59.79      A16S
ATOM   1912  O4* A   A 101     118.128  37.071  13.761  1.00 59.79      A16S
ATOM   1913  C1* A   A 101     117.063  36.486  13.039  1.00 59.79      A16S
ATOM   1914  N9  A   A 101     115.786  36.880  13.630  1.00 45.52      A16S
ATOM   1915  C4  A   A 101     114.578  36.315  13.301  1.00 45.52      A16S
ATOM   1916  N3  A   A 101     114.360  35.315  12.433  1.00 45.52      A16S
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ATOM   1917  C2  A   A 101     113.058  35.041  12.355  1.00 45.52      A16S
ATOM   1918  N1  A   A 101     112.027  35.612  12.993  1.00 45.52      A16S
ATOM   1919  C6  A   A 101     112.283  36.619  13.848  1.00 45.52      A16S
ATOM   1920  N6  A   A 101     111.258  37.202  14.464  1.00 45.52      A16S
ATOM   1921  C5  A   A 101     113.627  37.000  14.032  1.00 45.52      A16S
ATOM   1922  N7  A   A 101     114.224  37.968  14.827  1.00 45.52      A16S
ATOM   1923  C8  A   A 101     115.505  37.851  14.557  1.00 45.52      A16S
ATOM   1924  C2* A   A 101     117.187  36.927  11.581  1.00 59.79      A16S
ATOM   1925  O2* A   A 101     117.721  35.847  10.838  1.00 59.79      A16S
ATOM   1926  C3* A   A 101     118.140  38.116  11.682  1.00 59.79      A16S
ATOM   1927  O3* A   A 101     118.873  38.246  10.470  1.00 59.79      A16S
ATOM   1928  P   G   A 102     118.277  39.120   9.254  1.00 43.84      A16S
ATOM   1929  O1P G   A 102     119.355  39.180   8.241  1.00 28.33      A16S
ATOM   1930  O2P G   A 102     117.699  40.376   9.783  1.00 28.33      A16S
ATOM   1931  O5* G   A 102     117.094  38.250   8.650  1.00 43.84      A16S
ATOM   1932  C5* G   A 102     117.373  36.972   8.089  1.00 43.84      A16S
ATOM   1933  C4* G   A 102     116.097  36.248   7.775  1.00 43.84      A16S
ATOM   1934  O4* G   A 102     115.369  35.946   8.991  1.00 43.84      A16S
ATOM   1935  C1* G   A 102     113.979  35.979   8.729  1.00 43.84      A16S
ATOM   1936  N9  G   A 102     113.365  36.983   9.591  1.00 28.33      A16S
ATOM   1937  C4  G   A 102     112.027  37.261   9.679  1.00 28.33      A16S
ATOM   1938  N3  G   A 102     111.048  36.636   9.001  1.00 28.33      A16S
ATOM   1939  C2  G   A 102     109.858  37.112   9.306  1.00 28.33      A16S
ATOM   1940  N2  G   A 102     108.758  36.576   8.747  1.00 28.33      A16S
ATOM   1941  N1  G   A 102     109.655  38.142  10.189  1.00 28.33      A16S
ATOM   1942  C6  G   A 102     110.655  38.806  10.889  1.00 28.33      A16S
ATOM   1943  O6  G   A 102     110.364  39.728  11.662  1.00 28.33      A16S
ATOM   1944  C5  G   A 102     111.926  38.288  10.587  1.00 28.33      A16S
ATOM   1945  N7  G   A 102     113.173  38.641  11.072  1.00 28.33      A16S
ATOM   1946  C8  G   A 102     113.996  37.840  10.455  1.00 28.33      A16S
ATOM   1947  C2* G   A 102     113.797  36.317   7.250  1.00 43.84      A16S
ATOM   1948  O2* G   A 102     113.645  35.117   6.528  1.00 43.84      A16S
ATOM   1949  C3* G   A 102     115.108  37.019   6.934  1.00 43.84      A16S
ATOM   1950  O3* G   A 102     115.456  36.980   5.562  1.00 43.84      A16S
ATOM   1951  P   C   A 103     115.347  38.323   4.695  1.00 41.22      A16S
ATOM   1952  O1P C   A 103     116.093  38.150   3.416  1.00 38.39      A16S
ATOM   1953  O2P C   A 103     115.733  39.417   5.640  1.00 38.39      A16S
ATOM   1954  O5* C   A 103     113.794  38.403   4.358  1.00 41.22      A16S
ATOM   1955  C5* C   A 103     113.175  37.319   3.684  1.00 41.22      A16S
ATOM   1956  C4* C   A 103     111.681  37.375   3.833  1.00 41.22      A16S
ATOM   1957  O4* C   A 103     111.291  37.179   5.211  1.00 41.22      A16S
ATOM   1958  C1* C   A 103     110.081  37.870   5.459  1.00 41.22      A16S
ATOM   1959  N1  C   A 103     110.333  38.892   6.480  1.00 38.39      A16S
ATOM   1960  C6  C   A 103     111.587  39.073   6.995  1.00 38.39      A16S
ATOM   1961  C2  C   A 103     109.267  39.699   6.909  1.00 38.39      A16S
ATOM   1962  O2  C   A 103     108.141  39.515   6.433  1.00 38.39      A16S
ATOM   1963  N3  C   A 103     109.498  40.658   7.825  1.00 38.39      A16S
ATOM   1964  C4  C   A 103     110.729  40.830   8.312  1.00 38.39      A16S
ATOM   1965  N4  C   A 103     110.912  41.791   9.211  1.00 38.39      A16S
ATOM   1966  C5  C   A 103     111.828  40.023   7.898  1.00 38.39      A16S
ATOM   1967  C2* C   A 103     109.659  38.528   4.148  1.00 41.22      A16S
ATOM   1968  O2* C   A 103     108.795  37.646   3.467  1.00 41.22      A16S
ATOM   1969  C3* C   A 103     110.991  38.660   3.435  1.00 41.22      A16S
ATOM   1970  O3* C   A 103     110.835  38.751   2.034  1.00 41.22      A16S
ATOM   1971  P   G   A 104     111.234  40.116   1.290  1.00 40.78      A16S
ATOM   1972  O1P G   A 104     110.948  39.908  -0.156  1.00 30.48      A16S
ATOM   1973  O2P G   A 104     112.620  40.486   1.724  1.00 30.48      A16S
ATOM   1974  O5* G   A 104     110.173  41.159   1.862  1.00 40.78      A16S
ATOM   1975  C5* G   A 104     108.814  41.127   1.398  1.00 40.78      A16S
ATOM   1976  C4* G   A 104     107.959  42.086   2.184  1.00 40.78      A16S
ATOM   1977  O4* G   A 104     108.057  41.764   3.592  1.00 40.78      A16S
ATOM   1978  C1* G   A 104     107.892  42.940   4.367  1.00 40.78      A16S
ATOM   1979  N9  G   A 104     109.084  43.112   5.176  1.00 30.48      A16S
ATOM   1980  C4  G   A 104     109.271  44.024   6.181  1.00 30.48      A16S
ATOM   1981  N3  G   A 104     108.353  44.897   6.645  1.00 30.48      A16S
ATOM   1982  C2  G   A 104     108.856  45.672   7.598  1.00 30.48      A16S
ATOM   1983  N2  G   A 104     108.097  46.601   8.182  1.00 30.48      A16S
ATOM   1984  N1  G   A 104     110.149  45.596   8.043  1.00 30.48      A16S
ATOM   1985  C6  G   A 104     111.110  44.718   7.553  1.00 30.48      A16S
ATOM   1986  O6  G   A 104     112.274  44.774   7.967  1.00 30.48      A16S
ATOM   1987  C5  G   A 104     110.581  43.869   6.569  1.00 30.48      A16S
ATOM   1988  N7  G   A 104     111.185  42.843   5.864  1.00 30.48      A16S
ATOM   1989  C8  G   A 104     110.259  42.420   5.053  1.00 30.48      A16S
ATOM   1990  C2* G   A 104     107.710  44.110   3.405  1.00 40.78      A16S
ATOM   1991  O2* G   A 104     106.333  44.410   3.315  1.00 40.78      A16S
ATOM   1992  C3* G   A 104     108.327  43.556   2.123  1.00 40.78      A16S
ATOM   1993  O3* G   A 104     107.825  44.178   0.954  1.00 40.78      A16S
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ATOM	1994	P	G	A	105	108.680	45.346	0.256	1.00	52.82	A16S
ATOM	1995	O1P	G	A	105	107.894	45.781	-0.923	1.00	39.40	A16S
ATOM	1996	O2P	G	A	105	110.083	44.902	0.073	1.00	39.40	A16S
ATOM	1997	O5*	G	A	105	108.674	46.522	1.335	1.00	52.82	A16S
ATOM	1998	C5*	G	A	105	107.431	47.115	1.719	1.00	52.82	A16S
ATOM	1999	C4*	G	A	105	107.601	48.120	2.836	1.00	52.82	A16S
ATOM	2000	O4*	G	A	105	108.107	47.517	4.046	1.00	52.82	A16S
ATOM	2001	C1*	G	A	105	108.488	48.547	4.932	1.00	52.82	A16S
ATOM	2002	N9	G	A	105	109.722	48.190	5.619	1.00	39.40	A16S
ATOM	2003	C4	G	A	105	110.245	48.840	6.706	1.00	39.40	A16S
ATOM	2004	N3	G	A	105	109.693	49.891	7.334	1.00	39.40	A16S
ATOM	2005	C2	G	A	105	110.449	50.330	8.321	1.00	39.40	A16S
ATOM	2006	N2	G	A	105	110.049	51.375	9.056	1.00	39.40	A16S
ATOM	2007	N1	G	A	105	111.650	49.782	8.660	1.00	39.40	A16S
ATOM	2008	C6	G	A	105	112.238	48.700	8.029	1.00	39.40	A16S
ATOM	2009	O6	G	A	105	113.334	48.293	8.411	1.00	39.40	A16S
ATOM	2010	C5	G	A	105	111.435	48.212	6.973	1.00	39.40	A16S
ATOM	2011	N7	G	A	105	111.646	47.161	6.092	1.00	39.40	A16S
ATOM	2012	C8	G	A	105	110.602	47.183	5.309	1.00	39.40	A16S
ATOM	2013	C2*	G	A	105	108.607	49.824	4.104	1.00	52.82	A16S
ATOM	2014	O2*	G	A	105	107.478	50.602	4.441	1.00	52.82	A16S
ATOM	2015	C3*	G	A	105	108.534	49.295	2.671	1.00	52.82	A16S
ATOM	2016	O3*	G	A	105	107.956	50.262	1.819	1.00	52.82	A16S
ATOM	2017	P	C	A	106	108.904	51.223	0.959	1.00	38.85	A16S
ATOM	2018	O1P	C	A	106	107.997	51.935	0.015	1.00	32.93	A16S
ATOM	2019	O2P	C	A	106	110.033	50.419	0.419	1.00	32.93	A16S
ATOM	2020	O5*	C	A	106	109.496	52.222	2.052	1.00	38.85	A16S
ATOM	2021	C5*	C	A	106	108.711	53.319	2.512	1.00	38.85	A16S
ATOM	2022	C4*	C	A	106	109.411	54.066	3.621	1.00	38.85	A16S
ATOM	2023	O4*	C	A	106	109.458	53.260	4.828	1.00	38.85	A16S
ATOM	2024	C1*	C	A	106	110.621	53.586	5.569	1.00	38.85	A16S
ATOM	2025	N1	C	A	106	111.523	52.429	5.558	1.00	32.93	A16S
ATOM	2026	C6	C	A	106	111.409	51.453	4.610	1.00	32.93	A16S
ATOM	2027	C2	C	A	106	112.533	52.369	6.507	1.00	32.93	A16S
ATOM	2028	O2	C	A	106	112.594	53.256	7.364	1.00	32.93	A16S
ATOM	2029	N3	C	A	106	113.423	51.360	6.461	1.00	32.93	A16S
ATOM	2030	C4	C	A	106	113.331	50.440	5.502	1.00	32.93	A16S
ATOM	2031	N4	C	A	106	114.264	49.495	5.451	1.00	32.93	A16S
ATOM	2032	C5	C	A	106	112.288	50.457	4.542	1.00	32.93	A16S
ATOM	2033	C2*	C	A	106	111.322	54.727	4.835	1.00	38.85	A16S
ATOM	2034	O2*	C	A	106	110.898	55.947	5.405	1.00	38.85	A16S
ATOM	2035	C3*	C	A	106	110.850	54.494	3.400	1.00	38.85	A16S
ATOM	2036	O3*	C	A	106	110.972	55.637	2.565	1.00	38.85	A16S
ATOM	2037	P	G	A	107	112.283	55.813	1.642	1.00	38.32	A16S
ATOM	2038	O1P	G	A	107	112.044	57.124	1.003	1.00	52.12	A16S
ATOM	2039	O2P	G	A	107	112.562	54.622	0.788	1.00	52.12	A16S
ATOM	2040	O5*	G	A	107	113.467	55.992	2.685	1.00	38.32	A16S
ATOM	2041	C5*	G	A	107	113.437	57.112	3.549	1.00	38.32	A16S
ATOM	2042	C4*	G	A	107	114.449	56.973	4.632	1.00	38.32	A16S
ATOM	2043	O4*	G	A	107	114.164	55.802	5.426	1.00	38.32	A16S
ATOM	2044	C1*	G	A	107	115.381	55.255	5.915	1.00	38.32	A16S
ATOM	2045	N9	G	A	107	115.556	53.926	5.335	1.00	52.12	A16S
ATOM	2046	C4	G	A	107	116.534	53.014	5.654	1.00	52.12	A16S
ATOM	2047	N3	G	A	107	117.489	53.173	6.586	1.00	52.12	A16S
ATOM	2048	C2	G	A	107	118.294	52.136	6.645	1.00	52.12	A16S
ATOM	2049	N2	G	A	107	119.309	52.128	7.520	1.00	52.12	A16S
ATOM	2050	N1	G	A	107	118.166	51.031	5.853	1.00	52.12	A16S
ATOM	2051	C6	G	A	107	117.183	50.849	4.890	1.00	52.12	A16S
ATOM	2052	O6	G	A	107	117.149	49.808	4.226	1.00	52.12	A16S
ATOM	2053	C5	G	A	107	116.325	51.949	4.817	1.00	52.12	A16S
ATOM	2054	N7	G	A	107	115.230	52.170	4.000	1.00	52.12	A16S
ATOM	2055	C8	G	A	107	114.803	53.352	4.344	1.00	52.12	A16S
ATOM	2056	C2*	G	A	107	116.502	56.175	5.441	1.00	38.32	A16S
ATOM	2057	O2*	G	A	107	116.779	57.158	6.423	1.00	38.32	A16S
ATOM	2058	C3*	G	A	107	115.876	56.762	4.190	1.00	38.32	A16S
ATOM	2059	O3*	G	A	107	116.500	57.946	3.765	1.00	38.32	A16S
ATOM	2060	P	G	A	108	117.309	57.933	2.389	1.00	32.64	A16S
ATOM	2061	O1P	G	A	108	117.652	59.345	2.117	1.00	60.15	A16S
ATOM	2062	O2P	G	A	108	116.522	57.159	1.391	1.00	60.15	A16S
ATOM	2063	O5*	G	A	108	118.616	57.101	2.751	1.00	32.64	A16S
ATOM	2064	C5*	G	A	108	119.183	57.199	4.060	1.00	32.64	A16S
ATOM	2065	C4*	G	A	108	120.161	56.079	4.317	1.00	32.64	A16S
ATOM	2066	O4*	G	A	108	119.520	54.777	4.184	1.00	32.64	A16S
ATOM	2067	C1*	G	A	108	120.538	53.782	4.139	1.00	32.64	A16S
ATOM	2068	N9	G	A	108	120.314	52.808	3.066	1.00	60.15	A16S
ATOM	2069	C4	G	A	108	119.349	52.812	2.102	1.00	60.15	A16S
ATOM	2070	N3	G	A	108	118.329	53.687	2.009	1.00	60.15	A16S

ATOM	2071	C2	G	A	108	117.573	53.451	0.940	1.00	60.15	A16S
ATOM	2072	N2	G	A	108	116.487	54.225	0.698	1.00	60.15	A16S
ATOM	2073	N1	G	A	108	117.823	52.440	0.027	1.00	60.15	A16S
ATOM	2074	C6	G	A	108	118.881	51.535	0.106	1.00	60.15	A16S
ATOM	2075	O6	G	A	108	119.036	50.681	-0.777	1.00	60.15	A16S
ATOM	2076	C5	G	A	108	119.673	51.762	1.255	1.00	60.15	A16S
ATOM	2077	N7	G	A	108	120.786	51.079	1.714	1.00	60.15	A16S
ATOM	2078	C8	G	A	108	121.122	51.717	2.797	1.00	60.15	A16S
ATOM	2079	C2*	G	A	108	121.838	54.527	3.842	1.00	32.64	A16S
ATOM	2080	O2*	G	A	108	122.635	54.644	5.008	1.00	32.64	A16S
ATOM	2081	C3*	G	A	108	121.326	55.875	3.369	1.00	32.64	A16S
ATOM	2082	O3*	G	A	108	122.403	56.787	3.403	1.00	32.64	A16S
ATOM	2083	P	A	A	109	123.420	56.812	2.158	1.00	44.22	A16S
ATOM	2084	O1P	A	A	109	123.718	55.408	1.765	1.00	37.78	A16S
ATOM	2085	O2P	A	A	109	124.528	57.733	2.465	1.00	37.78	A16S
ATOM	2086	O5*	A	A	109	122.561	57.403	0.956	1.00	44.22	A16S
ATOM	2087	C5*	A	A	109	121.934	58.699	1.036	1.00	44.22	A16S
ATOM	2088	C4*	A	A	109	122.252	59.500	-0.206	1.00	44.22	A16S
ATOM	2089	O4*	A	A	109	122.037	58.676	-1.376	1.00	44.22	A16S
ATOM	2090	C1*	A	A	109	121.188	59.346	-2.277	1.00	44.22	A16S
ATOM	2091	N9	A	A	109	120.352	58.344	-2.925	1.00	37.78	A16S
ATOM	2092	C4	A	A	109	119.754	57.286	-2.302	1.00	37.78	A16S
ATOM	2093	N3	A	A	109	119.809	56.983	-1.000	1.00	37.78	A16S
ATOM	2094	C2	A	A	109	119.126	55.883	-0.755	1.00	37.78	A16S
ATOM	2095	N1	A	A	109	118.438	55.112	-1.596	1.00	37.78	A16S
ATOM	2096	C6	A	A	109	118.396	55.448	-2.895	1.00	37.78	A16S
ATOM	2097	N6	A	A	109	117.686	54.686	-3.724	1.00	37.78	A16S
ATOM	2098	C5	A	A	109	119.097	56.589	-3.290	1.00	37.78	A16S
ATOM	2099	N7	A	A	109	119.279	57.196	-4.523	1.00	37.78	A16S
ATOM	2100	C8	A	A	109	120.022	58.237	-4.249	1.00	37.78	A16S
ATOM	2101	C2*	A	A	109	120.429	60.392	-1.463	1.00	44.22	A16S
ATOM	2102	O2*	A	A	109	120.099	61.477	-2.308	1.00	44.22	A16S
ATOM	2103	C3*	A	A	109	121.474	60.794	-0.430	1.00	44.22	A16S
ATOM	2104	O3*	A	A	109	122.338	61.725	-1.064	1.00	44.22	A16S
ATOM	2105	P	C	A	110	123.350	62.599	-0.189	1.00	41.63	A16S
ATOM	2106	O1P	C	A	110	123.646	63.800	-1.005	1.00	33.65	A16S
ATOM	2107	O2P	C	A	110	124.485	61.757	0.303	1.00	33.65	A16S
ATOM	2108	O5*	C	A	110	122.455	63.027	1.057	1.00	41.63	A16S
ATOM	2109	C5*	C	A	110	121.298	63.854	0.878	1.00	41.63	A16S
ATOM	2110	C4*	C	A	110	120.753	64.293	2.214	1.00	41.63	A16S
ATOM	2111	O4*	C	A	110	120.229	63.139	2.908	1.00	41.63	A16S
ATOM	2112	C1*	C	A	110	120.447	63.282	4.296	1.00	41.63	A16S
ATOM	2113	N1	C	A	110	121.304	62.184	4.749	1.00	33.65	A16S
ATOM	2114	C6	C	A	110	122.026	61.443	3.862	1.00	33.65	A16S
ATOM	2115	C2	C	A	110	121.366	61.910	6.107	1.00	33.65	A16S
ATOM	2116	O2	C	A	110	120.709	62.614	6.896	1.00	33.65	A16S
ATOM	2117	N3	C	A	110	122.136	60.898	6.537	1.00	33.65	A16S
ATOM	2118	C4	C	A	110	122.828	60.176	5.665	1.00	33.65	A16S
ATOM	2119	N4	C	A	110	123.574	59.188	6.135	1.00	33.65	A16S
ATOM	2120	C5	C	A	110	122.790	60.438	4.272	1.00	33.65	A16S
ATOM	2121	C2*	C	A	110	121.104	64.636	4.532	1.00	41.63	A16S
ATOM	2122	O2*	C	A	110	120.108	65.579	4.866	1.00	41.63	A16S
ATOM	2123	C3*	C	A	110	121.749	64.901	3.184	1.00	41.63	A16S
ATOM	2124	O3*	C	A	110	121.944	66.283	2.982	1.00	41.63	A16S
ATOM	2125	P	G	A	111	123.338	66.957	3.428	1.00	30.88	A16S
ATOM	2126	O1P	G	A	111	123.119	68.441	3.403	1.00	51.77	A16S
ATOM	2127	O2P	G	A	111	124.458	66.350	2.625	1.00	51.77	A16S
ATOM	2128	O5*	G	A	111	123.552	66.509	4.939	1.00	30.88	A16S
ATOM	2129	C5*	G	A	111	122.903	67.199	5.994	1.00	30.88	A16S
ATOM	2130	C4*	G	A	111	123.212	66.541	7.302	1.00	30.88	A16S
ATOM	2131	O4*	G	A	111	122.760	65.171	7.254	1.00	30.88	A16S
ATOM	2132	C1*	G	A	111	123.679	64.338	7.933	1.00	30.88	A16S
ATOM	2133	N9	G	A	111	124.273	63.434	6.950	1.00	51.77	A16S
ATOM	2134	C4	G	A	111	124.919	62.256	7.208	1.00	51.77	A16S
ATOM	2135	N3	G	A	111	125.085	61.699	8.417	1.00	51.77	A16S
ATOM	2136	C2	G	A	111	125.757	60.574	8.347	1.00	51.77	A16S
ATOM	2137	N2	G	A	111	126.018	59.890	9.460	1.00	51.77	A16S
ATOM	2138	N1	G	A	111	126.228	60.035	7.182	1.00	51.77	A16S
ATOM	2139	C6	G	A	111	126.070	60.591	5.924	1.00	51.77	A16S
ATOM	2140	O6	G	A	111	126.542	60.021	4.931	1.00	51.77	A16S
ATOM	2141	C5	G	A	111	125.348	61.798	5.985	1.00	51.77	A16S
ATOM	2142	N7	G	A	111	124.952	62.654	4.973	1.00	51.77	A16S
ATOM	2143	C8	G	A	111	124.315	63.607	5.590	1.00	51.77	A16S
ATOM	2144	C2*	G	A	111	124.725	65.251	8.566	1.00	30.88	A16S
ATOM	2145	O2*	G	A	111	124.320	65.625	9.866	1.00	30.88	A16S
ATOM	2146	C3*	G	A	111	124.681	66.429	7.619	1.00	30.88	A16S
ATOM	2147	O3*	G	A	111	125.194	67.608	8.172	1.00	30.88	A16S

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ATOM   2148  P    G   A 112     126.523  68.230   7.537  1.00 36.10      A16S
ATOM   2149  O1P  G   A 112     126.822  69.510   8.232  1.00 36.75      A16S
ATOM   2150  O2P  G   A 112     126.361  68.201   6.055  1.00 36.75      A16S
ATOM   2151  O5*  G   A 112     127.648  67.183   7.935  1.00 36.10      A16S
ATOM   2152  C5*  G   A 112     128.037  67.031   9.296  1.00 36.10      A16S
ATOM   2153  C4*  G   A 112     129.095  65.976   9.410  1.00 36.10      A16S
ATOM   2154  O4*  G   A 112     128.550  64.744   8.887  1.00 36.10      A16S
ATOM   2155  C1*  G   A 112     129.578  63.983   8.292  1.00 36.10      A16S
ATOM   2156  N9   G   A 112     129.272  63.816   6.876  1.00 36.75      A16S
ATOM   2157  C4   G   A 112     130.036  63.122   5.971  1.00 36.75      A16S
ATOM   2158  N3   G   A 112     131.164  62.448   6.253  1.00 36.75      A16S
ATOM   2159  C2   G   A 112     131.684  61.889   5.182  1.00 36.75      A16S
ATOM   2160  N2   G   A 112     132.789  61.141   5.299  1.00 36.75      A16S
ATOM   2161  N1   G   A 112     131.156  62.012   3.921  1.00 36.75      A16S
ATOM   2162  C6   G   A 112     130.003  62.711   3.604  1.00 36.75      A16S
ATOM   2163  O6   G   A 112     129.634  62.777   2.432  1.00 36.75      A16S
ATOM   2164  C5   G   A 112     129.411  63.286   4.756  1.00 36.75      A16S
ATOM   2165  N7   G   A 112     128.255  64.042   4.897  1.00 36.75      A16S
ATOM   2166  C8   G   A 112     128.210  64.330   6.172  1.00 36.75      A16S
ATOM   2167  C2*  G   A 112     130.875  64.764   8.467  1.00 36.10      A16S
ATOM   2168  O2*  G   A 112     131.530  64.361   9.647  1.00 36.10      A16S
ATOM   2169  C3*  G   A 112     130.350  66.176   8.585  1.00 36.10      A16S
ATOM   2170  O3*  G   A 112     131.304  67.065   9.137  1.00 36.10      A16S
ATOM   2171  P    G   A 113     132.091  68.067   8.144  1.00 39.09      A16S
ATOM   2172  O1P  G   A 113     132.820  69.096   8.972  1.00 33.26      A16S
ATOM   2173  O2P  G   A 113     131.097  68.513   7.124  1.00 33.26      A16S
ATOM   2174  O5*  G   A 113     133.137  67.120   7.395  1.00 39.09      A16S
ATOM   2175  C5*  G   A 113     133.910  66.155   8.137  1.00 39.09      A16S
ATOM   2176  C4*  G   A 113     134.784  65.337   7.219  1.00 39.09      A16S
ATOM   2177  O4*  G   A 113     133.990  64.428   6.433  1.00 39.09      A16S
ATOM   2178  C1*  G   A 113     134.650  64.159   5.213  1.00 39.09      A16S
ATOM   2179  N9   G   A 113     133.745  64.448   4.112  1.00 33.26      A16S
ATOM   2180  C4   G   A 113     133.988  64.219   2.781  1.00 33.26      A16S
ATOM   2181  N3   G   A 113     135.104  63.680   2.263  1.00 33.26      A16S
ATOM   2182  C2   G   A 113     135.045  63.597   0.950  1.00 33.26      A16S
ATOM   2183  N2   G   A 113     136.064  63.084   0.262  1.00 33.26      A16S
ATOM   2184  N1   G   A 113     133.983  64.012   0.212  1.00 33.26      A16S
ATOM   2185  C6   G   A 113     132.829  64.574   0.722  1.00 33.26      A16S
ATOM   2186  O6   G   A 113     131.940  64.928  -0.041  1.00 33.26      A16S
ATOM   2187  C5   G   A 113     132.870  64.662   2.123  1.00 33.26      A16S
ATOM   2188  N7   G   A 113     131.933  65.149   3.018  1.00 33.26      A16S
ATOM   2189  C8   G   A 113     132.496  65.001   4.186  1.00 33.26      A16S
ATOM   2190  C2*  G   A 113     135.921  64.999   5.177  1.00 39.09      A16S
ATOM   2191  O2*  G   A 113     136.990  64.194   5.619  1.00 39.09      A16S
ATOM   2192  C3*  G   A 113     135.601  66.086   6.188  1.00 39.09      A16S
ATOM   2193  O3*  G   A 113     136.786  66.611   6.758  1.00 39.09      A16S
ATOM   2194  P    U   A 114     137.353  68.029   6.247  1.00 28.72      A16S
ATOM   2195  O1P  U   A 114     138.364  68.437   7.257  1.00 36.15      A16S
ATOM   2196  O2P  U   A 114     136.216  68.944   5.941  1.00 36.15      A16S
ATOM   2197  O5*  U   A 114     138.058  67.669   4.867  1.00 28.72      A16S
ATOM   2198  C5*  U   A 114     139.115  66.722   4.818  1.00 28.72      A16S
ATOM   2199  C4*  U   A 114     139.380  66.331   3.396  1.00 28.72      A16S
ATOM   2200  O4*  U   A 114     138.225  65.645   2.875  1.00 28.72      A16S
ATOM   2201  C1*  U   A 114     138.084  65.937   1.503  1.00 28.72      A16S
ATOM   2202  N1   U   A 114     136.747  66.503   1.281  1.00 36.15      A16S
ATOM   2203  C6   U   A 114     135.996  66.991   2.310  1.00 36.15      A16S
ATOM   2204  C2   U   A 114     136.266  66.512  -0.007  1.00 36.15      A16S
ATOM   2205  O2   U   A 114     136.907  66.110  -0.961  1.00 36.15      A16S
ATOM   2206  N3   U   A 114     135.006  67.012  -0.146  1.00 36.15      A16S
ATOM   2207  C4   U   A 114     134.205  67.494   0.834  1.00 36.15      A16S
ATOM   2208  O4   U   A 114     133.076  67.858   0.548  1.00 36.15      A16S
ATOM   2209  C5   U   A 114     134.774  67.473   2.136  1.00 36.15      A16S
ATOM   2210  C2*  U   A 114     139.227  66.860   1.094  1.00 28.72      A16S
ATOM   2211  O2*  U   A 114     140.269  66.078   0.564  1.00 28.72      A16S
ATOM   2212  C3*  U   A 114     139.614  67.476   2.427  1.00 28.72      A16S
ATOM   2213  O3*  U   A 114     140.971  67.896   2.456  1.00 28.72      A16S
ATOM   2214  P    G   A 115     141.372  69.345   1.898  1.00 22.15      A16S
ATOM   2215  O1P  G   A 115     142.805  69.473   2.270  1.00 38.00      A16S
ATOM   2216  O2P  G   A 115     140.406  70.352   2.365  1.00 38.00      A16S
ATOM   2217  O5*  G   A 115     141.218  69.188   0.325  1.00 22.15      A16S
ATOM   2218  C5*  G   A 115     141.937  68.168  -0.358  1.00 22.15      A16S
ATOM   2219  C4*  G   A 115     141.885  68.397  -1.841  1.00 22.15      A16S
ATOM   2220  O4*  G   A 115     140.559  68.112  -2.334  1.00 22.15      A16S
ATOM   2221  C1*  G   A 115     139.967  69.268  -2.889  1.00 22.15      A16S
ATOM   2222  N9   G   A 115     138.692  69.465  -2.202  1.00 38.00      A16S
ATOM   2223  C4   G   A 115     137.470  69.707  -2.781  1.00 38.00      A16S
ATOM   2224  N3   G   A 115     137.233  69.865  -4.096  1.00 38.00      A16S
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ATOM   2225  C2  G   A 115     135.956  70.097  -4.345  1.00 38.00      A16S
ATOM   2226  N2  G   A 115     135.559  70.321  -5.596  1.00 38.00      A16S
ATOM   2227  N1  G   A 115     134.978  70.139  -3.387  1.00 38.00      A16S
ATOM   2228  C6  G   A 115     135.194  69.971  -2.026  1.00 38.00      A16S
ATOM   2229  O6  G   A 115     134.241  70.020  -1.241  1.00 38.00      A16S
ATOM   2230  C5  G   A 115     136.573  69.750  -1.738  1.00 38.00      A16S
ATOM   2231  N7  G   A 115     137.220  69.564  -0.525  1.00 38.00      A16S
ATOM   2232  C8  G   A 115     138.473  69.408  -0.848  1.00 38.00      A16S
ATOM   2233  C2* G   A 115     140.929  70.450  -2.769  1.00 22.15      A16S
ATOM   2234  O2* G   A 115     140.943  71.067  -4.044  1.00 22.15      A16S
ATOM   2235  C3* G   A 115     142.249  69.787  -2.323  1.00 22.15      A16S
ATOM   2236  O3* G   A 115     143.515  69.868  -3.027  1.00 22.15      A16S
ATOM   2237  P   A   A 116     143.677  69.260  -4.509  1.00 33.16      A16S
ATOM   2238  O1P A   A 116     144.966  69.780  -5.043  1.00 18.63      A16S
ATOM   2239  O2P A   A 116     142.401  69.520  -5.262  1.00 18.63      A16S
ATOM   2240  O5* A   A 116     143.822  67.693  -4.272  1.00 33.16      A16S
ATOM   2241  C5* A   A 116     145.031  66.989  -4.623  1.00 33.16      A16S
ATOM   2242  C4* A   A 116     144.707  65.817  -5.518  1.00 33.16      A16S
ATOM   2243  O4* A   A 116     143.645  65.057  -4.890  1.00 33.16      A16S
ATOM   2244  C1* A   A 116     142.696  64.659  -5.854  1.00 33.16      A16S
ATOM   2245  N9  A   A 116     141.478  65.419  -5.602  1.00 18.63      A16S
ATOM   2246  C4  A   A 116     140.287  65.251  -6.246  1.00 18.63      A16S
ATOM   2247  N3  A   A 116     139.993  64.318  -7.153  1.00 18.63      A16S
ATOM   2248  C2  A   A 116     138.765  64.483  -7.598  1.00 18.63      A16S
ATOM   2249  N1  A   A 116     137.863  65.411  -7.270  1.00 18.63      A16S
ATOM   2250  C6  A   A 116     138.191  66.335  -6.357  1.00 18.63      A16S
ATOM   2251  N6  A   A 116     137.288  67.264  -6.051  1.00 18.63      A16S
ATOM   2252  C5  A   A 116     139.468  66.260  -5.797  1.00 18.63      A16S
ATOM   2253  N7  A   A 116     140.114  67.024  -4.841  1.00 18.63      A16S
ATOM   2254  C8  A   A 116     141.295  66.473  -4.750  1.00 18.63      A16S
ATOM   2255  C2* A   A 116     143.266  65.019  -7.227  1.00 33.16      A16S
ATOM   2256  O2* A   A 116     143.985  63.927  -7.747  1.00 33.16      A16S
ATOM   2257  C3* A   A 116     144.162  66.197  -6.884  1.00 33.16      A16S
ATOM   2258  O3* A   A 116     145.213  66.375  -7.824  1.00 33.16      A16S
ATOM   2259  P   G   A 117     145.169  67.615  -8.841  1.00 32.46      A16S
ATOM   2260  O1P G   A 117     144.664  68.779  -8.078  1.00 43.04      A16S
ATOM   2261  O2P G   A 117     146.480  67.715  -9.538  1.00 43.04      A16S
ATOM   2262  O5* G   A 117     144.069  67.165  -9.900  1.00 32.46      A16S
ATOM   2263  C5* G   A 117     144.231  65.952 -10.658  1.00 32.46      A16S
ATOM   2264  C4* G   A 117     142.896  65.481 -11.179  1.00 32.46      A16S
ATOM   2265  O4* G   A 117     142.012  65.345 -10.050  1.00 32.46      A16S
ATOM   2266  C1* G   A 117     140.718  65.797 -10.390  1.00 32.46      A16S
ATOM   2267  N9  G   A 117     140.410  66.926  -9.525  1.00 43.04      A16S
ATOM   2268  C4  G   A 117     139.244  67.644  -9.487  1.00 43.04      A16S
ATOM   2269  N3  G   A 117     138.178  67.456 -10.280  1.00 43.04      A16S
ATOM   2270  C2  G   A 117     137.201  68.290  -9.987  1.00 43.04      A16S
ATOM   2271  N2  G   A 117     136.052  68.246 -10.691  1.00 43.04      A16S
ATOM   2272  N1  G   A 117     137.271  69.230  -8.987  1.00 43.04      A16S
ATOM   2273  C6  G   A 117     138.363  69.431  -8.158  1.00 43.04      A16S
ATOM   2274  O6  G   A 117     138.321  70.288  -7.272  1.00 43.04      A16S
ATOM   2275  C5  G   A 117     139.411  68.559  -8.471  1.00 43.04      A16S
ATOM   2276  N7  G   A 117     140.668  68.440  -7.904  1.00 43.04      A16S
ATOM   2277  C8  G   A 117     141.226  67.463  -8.563  1.00 43.04      A16S
ATOM   2278  C2* G   A 117     140.718  66.144 -11.871  1.00 32.46      A16S
ATOM   2279  O2* G   A 117     140.263  65.023 -12.592  1.00 32.46      A16S
ATOM   2280  C3* G   A 117     142.187  66.449 -12.108  1.00 32.46      A16S
ATOM   2281  O3* G   A 117     142.558  66.236 -13.457  1.00 32.46      A16S
ATOM   2282  P   U   A 118     143.018  67.484 -14.350  1.00 28.30      A16S
ATOM   2283  O1P U   A 118     143.375  66.970 -15.696  1.00 53.26      A16S
ATOM   2284  O2P U   A 118     144.012  68.273 -13.568  1.00 53.26      A16S
ATOM   2285  O5* U   A 118     141.690  68.340 -14.526  1.00 28.30      A16S
ATOM   2286  C5* U   A 118     140.528  67.741 -15.103  1.00 28.30      A16S
ATOM   2287  C4* U   A 118     139.311  68.589 -14.844  1.00 28.30      A16S
ATOM   2288  O4* U   A 118     139.037  68.678 -13.424  1.00 28.30      A16S
ATOM   2289  C1* U   A 118     138.448  69.930 -13.134  1.00 28.30      A16S
ATOM   2290  N1  U   A 118     139.283  70.638 -12.149  1.00 53.26      A16S
ATOM   2291  C6  U   A 118     140.599  70.304 -11.943  1.00 53.26      A16S
ATOM   2292  C2  U   A 118     138.696  71.654 -11.421  1.00 53.26      A16S
ATOM   2293  O2  U   A 118     137.541  72.014 -11.592  1.00 53.26      A16S
ATOM   2294  N3  U   A 118     139.512  72.246 -10.488  1.00 53.26      A16S
ATOM   2295  C4  U   A 118     140.825  71.943 -10.221  1.00 53.26      A16S
ATOM   2296  O4  U   A 118     141.398  72.507  -9.294  1.00 53.26      A16S
ATOM   2297  C5  U   A 118     141.368  70.907 -11.031  1.00 53.26      A16S
ATOM   2298  C2* U   A 118     138.287  70.669 -14.462  1.00 28.30      A16S
ATOM   2299  O2* U   A 118     137.001  70.363 -14.981  1.00 28.30      A16S
ATOM   2300  C3* U   A 118     139.374  70.025 -15.307  1.00 28.30      A16S
ATOM   2301  O3* U   A 118     139.055  70.103 -16.675  1.00 28.30      A16S
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ATOM   2302  P    A   A 119     139.879  71.097 -17.618  1.00 31.55      A16S
ATOM   2303  O1P A   A 119     139.330  70.891 -18.969  1.00 33.82      A16S
ATOM   2304  O2P A   A 119     141.330  70.941 -17.373  1.00 33.82      A16S
ATOM   2305  O5* A   A 119     139.460  72.554 -17.149  1.00 31.55      A16S
ATOM   2306  C5* A   A 119     138.220  73.123 -17.571  1.00 31.55      A16S
ATOM   2307  C4* A   A 119     138.458  74.505 -18.070  1.00 31.55      A16S
ATOM   2308  O4* A   A 119     138.968  75.276 -16.979  1.00 31.55      A16S
ATOM   2309  C1* A   A 119     139.817  76.274 -17.477  1.00 31.55      A16S
ATOM   2310  N9   A   A 119     140.857  76.518 -16.491  1.00 33.82      A16S
ATOM   2311  C4   A   A 119     140.940  77.637 -15.701  1.00 33.82      A16S
ATOM   2312  N3   A   A 119     140.102  78.688 -15.680  1.00 33.82      A16S
ATOM   2313  C2   A   A 119     140.512  79.599 -14.798  1.00 33.82      A16S
ATOM   2314  N1   A   A 119     141.587  79.582 -14.002  1.00 33.82      A16S
ATOM   2315  C6   A   A 119     142.403  78.507 -14.053  1.00 33.82      A16S
ATOM   2316  N6   A   A 119     143.475  78.485 -13.281  1.00 33.82      A16S
ATOM   2317  C5   A   A 119     142.072  77.471 -14.933  1.00 33.82      A16S
ATOM   2318  N7   A   A 119     142.681  76.260 -15.215  1.00 33.82      A16S
ATOM   2319  C8   A   A 119     141.922  75.736 -16.147  1.00 33.82      A16S
ATOM   2320  C2* A   A 119     140.283  75.883 -18.881  1.00 31.55      A16S
ATOM   2321  O2* A   A 119     140.081  76.923 -19.820  1.00 31.55      A16S
ATOM   2322  C3* A   A 119     139.550  74.557 -19.115  1.00 31.55      A16S
ATOM   2323  O3* A   A 119     139.044  74.261 -20.437  1.00 31.55      A16S
ATOM   2324  P    A   A 120     137.869  75.157 -21.119  1.00 51.80      A16S
ATOM   2325  O1P A   A 120     137.915  74.817 -22.574  1.00 36.45      A16S
ATOM   2326  O2P A   A 120     137.919  76.580 -20.704  1.00 36.45      A16S
ATOM   2327  O5* A   A 120     136.517  74.550 -20.540  1.00 51.80      A16S
ATOM   2328  C5* A   A 120     136.107  73.217 -20.864  1.00 51.80      A16S
ATOM   2329  C4* A   A 120     134.951  72.828 -19.994  1.00 51.80      A16S
ATOM   2330  O4* A   A 120     135.387  72.936 -18.623  1.00 51.80      A16S
ATOM   2331  C1* A   A 120     134.359  73.484 -17.827  1.00 51.80      A16S
ATOM   2332  N9   A   A 120     134.873  74.726 -17.250  1.00 36.45      A16S
ATOM   2333  C4   A   A 120     135.498  74.859 -16.036  1.00 36.45      A16S
ATOM   2334  N3   A   A 120     135.723  73.900 -15.129  1.00 36.45      A16S
ATOM   2335  C2   A   A 120     136.363  74.399 -14.068  1.00 36.45      A16S
ATOM   2336  N1   A   A 120     136.774  75.653 -13.834  1.00 36.45      A16S
ATOM   2337  C6   A   A 120     136.542  76.586 -14.782  1.00 36.45      A16S
ATOM   2338  N6   A   A 120     136.976  77.831 -14.577  1.00 36.45      A16S
ATOM   2339  C5   A   A 120     135.862  76.185 -15.942  1.00 36.45      A16S
ATOM   2340  N7   A   A 120     135.460  76.883 -17.065  1.00 36.45      A16S
ATOM   2341  C8   A   A 120     134.872  75.976 -17.805  1.00 36.45      A16S
ATOM   2342  C2* A   A 120     133.119  73.628 -18.714  1.00 51.80      A16S
ATOM   2343  O2* A   A 120     132.347  72.447 -18.596  1.00 51.80      A16S
ATOM   2344  C3* A   A 120     133.738  73.738 -20.100  1.00 51.80      A16S
ATOM   2345  O3* A   A 120     132.847  73.250 -21.105  1.00 51.80      A16S
ATOM   2346  P    C   A 121     131.902  74.270 -21.907  1.00 52.14      A16S
ATOM   2347  O1P C   A 121     131.151  73.506 -22.943  1.00 56.22      A16S
ATOM   2348  O2P C   A 121     132.738  75.430 -22.313  1.00 56.22      A16S
ATOM   2349  O5* C   A 121     130.868  74.765 -20.807  1.00 52.14      A16S
ATOM   2350  C5* C   A 121     129.846  73.894 -20.320  1.00 52.14      A16S
ATOM   2351  C4* C   A 121     129.438  74.299 -18.928  1.00 52.14      A16S
ATOM   2352  O4* C   A 121     128.998  75.682 -18.918  1.00 52.14      A16S
ATOM   2353  C1* C   A 121     127.679  75.766 -18.416  1.00 52.14      A16S
ATOM   2354  N1   C   A 121     126.976  76.853 -19.133  1.00 56.22      A16S
ATOM   2355  C6   C   A 121     126.988  76.889 -20.498  1.00 56.22      A16S
ATOM   2356  C2   C   A 121     126.300  77.876 -18.396  1.00 56.22      A16S
ATOM   2357  O2   C   A 121     126.260  77.829 -17.146  1.00 56.22      A16S
ATOM   2358  N3   C   A 121     125.706  78.882 -19.078  1.00 56.22      A16S
ATOM   2359  C4   C   A 121     125.744  78.896 -20.418  1.00 56.22      A16S
ATOM   2360  N4   C   A 121     125.144  79.907 -21.056  1.00 56.22      A16S
ATOM   2361  C5   C   A 121     126.395  77.877 -21.170  1.00 56.22      A16S
ATOM   2362  C2* C   A 121     127.081  74.367 -18.589  1.00 52.14      A16S
ATOM   2363  O2* C   A 121     126.042  74.141 -17.657  1.00 52.14      A16S
ATOM   2364  C3* C   A 121     128.301  73.477 -18.350  1.00 52.14      A16S
ATOM   2365  O3* C   A 121     128.542  73.329 -16.954  1.00 52.14      A16S
ATOM   2366  P    G   A 122     129.123  71.946 -16.378  1.00 34.66      A16S
ATOM   2367  O1P G   A 122     128.134  70.885 -16.735  1.00 36.73      A16S
ATOM   2368  O2P G   A 122     130.537  71.781 -16.789  1.00 36.73      A16S
ATOM   2369  O5* G   A 122     129.142  72.204 -14.808  1.00 34.66      A16S
ATOM   2370  C5* G   A 122     129.696  71.233 -13.915  1.00 34.66      A16S
ATOM   2371  C4* G   A 122     130.594  71.898 -12.910  1.00 34.66      A16S
ATOM   2372  O4* G   A 122     131.848  72.258 -13.532  1.00 34.66      A16S
ATOM   2373  C1* G   A 122     132.301  73.494 -13.012  1.00 34.66      A16S
ATOM   2374  N9   G   A 122     132.349  74.454 -14.109  1.00 36.73      A16S
ATOM   2375  C4   G   A 122     132.850  75.734 -14.060  1.00 36.73      A16S
ATOM   2376  N3   G   A 122     133.425  76.318 -12.994  1.00 36.73      A16S
ATOM   2377  C2   G   A 122     133.781  77.559 -13.244  1.00 36.73      A16S
ATOM   2378  N2   G   A 122     134.378  78.277 -12.284  1.00 36.73      A16S
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ATOM   2379  N1  G   A 122     133.579  78.183 -14.449  1.00 36.73      A16S
ATOM   2380  C6  G   A 122     132.989  77.600 -15.561  1.00 36.73      A16S
ATOM   2381  O6  G   A 122     132.846  78.252 -16.606  1.00 36.73      A16S
ATOM   2382  C5  G   A 122     132.616  76.264 -15.305  1.00 36.73      A16S
ATOM   2383  N7  G   A 122     132.012  75.328 -16.131  1.00 36.73      A16S
ATOM   2384  C8  G   A 122     131.877  74.272 -15.382  1.00 36.73      A16S
ATOM   2385  C2* G   A 122     131.312  73.936 -11.933  1.00 34.66      A16S
ATOM   2386  O2* G   A 122     131.791  73.562 -10.664  1.00 34.66      A16S
ATOM   2387  C3* G   A 122     130.051  73.193 -12.346  1.00 34.66      A16S
ATOM   2388  O3* G   A 122     129.154  72.971 -11.275  1.00 34.66      A16S
ATOM   2389  P   C   A 123     127.924  73.979 -11.058  1.00 25.90      A16S
ATOM   2390  O1P C   A 123     127.094  73.445  -9.967  1.00 38.61      A16S
ATOM   2391  O2P C   A 123     127.296  74.264 -12.373  1.00 38.61      A16S
ATOM   2392  O5* C   A 123     128.639  75.304 -10.552  1.00 25.90      A16S
ATOM   2393  C5* C   A 123     129.560  75.261  -9.453  1.00 25.90      A16S
ATOM   2394  C4* C   A 123     130.324  76.556  -9.360  1.00 25.90      A16S
ATOM   2395  O4* C   A 123     131.197  76.694 -10.509  1.00 25.90      A16S
ATOM   2396  C1* C   A 123     131.278  78.061 -10.881  1.00 25.90      A16S
ATOM   2397  N1  C   A 123     130.727  78.221 -12.232  1.00 38.61      A16S
ATOM   2398  C6  C   A 123     129.827  77.325 -12.738  1.00 38.61      A16S
ATOM   2399  C2  C   A 123     131.116  79.329 -12.983  1.00 38.61      A16S
ATOM   2400  O2  C   A 123     131.966  80.107 -12.513  1.00 38.61      A16S
ATOM   2401  N3  C   A 123     130.564  79.525 -14.197  1.00 38.61      A16S
ATOM   2402  C4  C   A 123     129.665  78.660 -14.667  1.00 38.61      A16S
ATOM   2403  N4  C   A 123     129.131  78.904 -15.861  1.00 38.61      A16S
ATOM   2404  C5  C   A 123     129.273  77.509 -13.936  1.00 38.61      A16S
ATOM   2405  C2* C   A 123     130.446  78.866  -9.889  1.00 25.90      A16S
ATOM   2406  O2* C   A 123     131.296  79.348  -8.882  1.00 25.90      A16S
ATOM   2407  C3* C   A 123     129.475  77.814  -9.382  1.00 25.90      A16S
ATOM   2408  O3* C   A 123     128.950  78.131  -8.116  1.00 25.90      A16S
ATOM   2409  P   G   A 124     127.520  78.849  -8.027  1.00 30.46      A16S
ATOM   2410  O1P G   A 124     127.163  78.958  -6.590  1.00 32.85      A16S
ATOM   2411  O2P G   A 124     126.581  78.177  -8.962  1.00 32.85      A16S
ATOM   2412  O5* G   A 124     127.813  80.315  -8.565  1.00 30.46      A16S
ATOM   2413  C5* G   A 124     128.612  81.233  -7.799  1.00 30.46      A16S
ATOM   2414  C4* G   A 124     128.769  82.532  -8.548  1.00 30.46      A16S
ATOM   2415  O4* G   A 124     129.449  82.274  -9.801  1.00 30.46      A16S
ATOM   2416  C1* G   A 124     128.987  83.167 -10.794  1.00 30.46      A16S
ATOM   2417  N9  G   A 124     128.455  82.395 -11.911  1.00 32.85      A16S
ATOM   2418  C4  G   A 124     128.263  82.854 -13.184  1.00 32.85      A16S
ATOM   2419  N3  G   A 124     128.523  84.095 -13.614  1.00 32.85      A16S
ATOM   2420  C2  G   A 124     128.223  84.250 -14.880  1.00 32.85      A16S
ATOM   2421  N2  G   A 124     128.415  85.436 -15.451  1.00 32.85      A16S
ATOM   2422  N1  G   A 124     127.707  83.264 -15.674  1.00 32.85      A16S
ATOM   2423  C6  G   A 124     127.407  81.978 -15.250  1.00 32.85      A16S
ATOM   2424  O6  G   A 124     126.871  81.167 -16.039  1.00 32.85      A16S
ATOM   2425  C5  G   A 124     127.746  81.795 -13.885  1.00 32.85      A16S
ATOM   2426  N7  G   A 124     127.616  80.684 -13.068  1.00 32.85      A16S
ATOM   2427  C8  G   A 124     128.049  81.089 -11.906  1.00 32.85      A16S
ATOM   2428  C2* G   A 124     127.941  84.065 -10.149  1.00 30.46      A16S
ATOM   2429  O2* G   A 124     128.561  85.247  -9.703  1.00 30.46      A16S
ATOM   2430  C3* G   A 124     127.484  83.206  -8.986  1.00 30.46      A16S
ATOM   2431  O3* G   A 124     126.883  83.969  -7.961  1.00 30.46      A16S
ATOM   2432  P   U   A 125     125.289  83.901  -7.765  1.00 27.91      A16S
ATOM   2433  O1P U   A 125     125.046  84.532  -6.432  1.00 28.95      A16S
ATOM   2434  O2P U   A 125     124.789  82.515  -8.038  1.00 28.95      A16S
ATOM   2435  O5* U   A 125     124.745  84.827  -8.939  1.00 27.91      A16S
ATOM   2436  C5* U   A 125     125.215  86.171  -9.071  1.00 27.91      A16S
ATOM   2437  C4* U   A 125     124.911  86.701 -10.445  1.00 27.91      A16S
ATOM   2438  O4* U   A 125     125.688  85.984 -11.430  1.00 27.91      A16S
ATOM   2439  C1* U   A 125     124.993  85.962 -12.660  1.00 27.91      A16S
ATOM   2440  N1  U   A 125     124.867  84.571 -13.127  1.00 28.95      A16S
ATOM   2441  C6  U   A 125     124.880  83.500 -12.260  1.00 28.95      A16S
ATOM   2442  C2  U   A 125     124.737  84.370 -14.494  1.00 28.95      A16S
ATOM   2443  O2  U   A 125     124.690  85.285 -15.305  1.00 28.95      A16S
ATOM   2444  N3  U   A 125     124.653  83.057 -14.886  1.00 28.95      A16S
ATOM   2445  C4  U   A 125     124.675  81.937 -14.081  1.00 28.95      A16S
ATOM   2446  O4  U   A 125     124.745  80.811 -14.614  1.00 28.95      A16S
ATOM   2447  C5  U   A 125     124.786  82.225 -12.676  1.00 28.95      A16S
ATOM   2448  C2* U   A 125     123.664  86.680 -12.448  1.00 27.91      A16S
ATOM   2449  O2* U   A 125     123.824  88.028 -12.850  1.00 27.91      A16S
ATOM   2450  C3* U   A 125     123.490  86.558 -10.941  1.00 27.91      A16S
ATOM   2451  O3* U   A 125     122.632  87.551 -10.410  1.00 27.91      A16S
ATOM   2452  P   G   A 126     121.131  87.150  -9.991  1.00 24.32      A16S
ATOM   2453  O1P G   A 126     120.622  88.239  -9.109  1.00 44.06      A16S
ATOM   2454  O2P G   A 126     121.115  85.742  -9.501  1.00 44.06      A16S
ATOM   2455  O5* G   A 126     120.346  87.164 -11.378  1.00 24.32      A16S
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ATOM   2456  C5* G   A 126     120.192  88.386 -12.085  1.00 24.32      A16S
ATOM   2457  C4* G   A 126     119.958  88.130 -13.542  1.00 24.32      A16S
ATOM   2458  O4* G   A 126     121.032  87.327 -14.086  1.00 24.32      A16S
ATOM   2459  C1* G   A 126     120.559  86.639 -15.231  1.00 24.32      A16S
ATOM   2460  N9  G   A 126     120.919  85.226 -15.132  1.00 44.06      A16S
ATOM   2461  C4  G   A 126     121.020  84.332 -16.180  1.00 44.06      A16S
ATOM   2462  N3  G   A 126     120.804  84.605 -17.479  1.00 44.06      A16S
ATOM   2463  C2  G   A 126     121.019  83.553 -18.245  1.00 44.06      A16S
ATOM   2464  N2  G   A 126     120.887  83.646 -19.569  1.00 44.06      A16S
ATOM   2465  N1  G   A 126     121.392  82.332 -17.777  1.00 44.06      A16S
ATOM   2466  C6  G   A 126     121.623  82.025 -16.448  1.00 44.06      A16S
ATOM   2467  O6  G   A 126     121.984  80.885 -16.139  1.00 44.06      A16S
ATOM   2468  C5  G   A 126     121.405  83.144 -15.610  1.00 44.06      A16S
ATOM   2469  N7  G   A 126     121.531  83.275 -14.234  1.00 44.06      A16S
ATOM   2470  C8  G   A 126     121.230  84.523 -13.996  1.00 44.06      A16S
ATOM   2471  C2* G   A 126     119.050  86.866 -15.320  1.00 24.32      A16S
ATOM   2472  O2* G   A 126     118.786  87.827 -16.322  1.00 24.32      A16S
ATOM   2473  C3* G   A 126     118.719  87.349 -13.911  1.00 24.32      A16S
ATOM   2474  O3* G   A 126     117.555  88.152 -13.897  1.00 24.32      A16S
ATOM   2475  P   G   A 127     116.122  87.445 -13.910  1.00 25.86      A16S
ATOM   2476  O1P G   A 127     115.075  88.405 -14.341  1.00 39.16      A16S
ATOM   2477  O2P G   A 127     115.989  86.743 -12.616  1.00 39.16      A16S
ATOM   2478  O5* G   A 127     116.297  86.388 -15.073  1.00 25.86      A16S
ATOM   2479  C5* G   A 127     115.218  85.593 -15.527  1.00 25.86      A16S
ATOM   2480  C4* G   A 127     115.425  85.263 -16.973  1.00 25.86      A16S
ATOM   2481  O4* G   A 127     116.831  85.006 -17.205  1.00 25.86      A16S
ATOM   2482  C1* G   A 127     116.982  83.982 -18.171  1.00 25.86      A16S
ATOM   2483  N9  G   A 127     117.637  82.844 -17.535  1.00 39.16      A16S
ATOM   2484  C4  G   A 127     117.905  81.635 -18.124  1.00 39.16      A16S
ATOM   2485  N3  G   A 127     117.657  81.308 -19.407  1.00 39.16      A16S
ATOM   2486  C2  G   A 127     118.013  80.063 -19.673  1.00 39.16      A16S
ATOM   2487  N2  G   A 127     117.855  79.567 -20.905  1.00 39.16      A16S
ATOM   2488  N1  G   A 127     118.553  79.208 -18.754  1.00 39.16      A16S
ATOM   2489  C6  G   A 127     118.810  79.523 -17.431  1.00 39.16      A16S
ATOM   2490  O6  G   A 127     119.288  78.671 -16.684  1.00 39.16      A16S
ATOM   2491  C5  G   A 127     118.452  80.859 -17.132  1.00 39.16      A16S
ATOM   2492  N7  G   A 127     118.558  81.574 -15.949  1.00 39.16      A16S
ATOM   2493  C8  G   A 127     118.071  82.747 -16.238  1.00 39.16      A16S
ATOM   2494  C2* G   A 127     115.583  83.606 -18.653  1.00 25.86      A16S
ATOM   2495  O2* G   A 127     115.282  84.314 -19.843  1.00 25.86      A16S
ATOM   2496  C3* G   A 127     114.731  84.011 -17.457  1.00 25.86      A16S
ATOM   2497  O3* G   A 127     113.377  84.239 -17.786  1.00 25.86      A16S
ATOM   2498  P   G   A 128     112.332  83.030 -17.677  1.00 37.78      A16S
ATOM   2499  O1P G   A 128     110.992  83.549 -18.074  1.00 49.91      A16S
ATOM   2500  O2P G   A 128     112.520  82.409 -16.332  1.00 49.91      A16S
ATOM   2501  O5* G   A 128     112.806  82.018 -18.806  1.00 37.78      A16S
ATOM   2502  C5* G   A 128     112.785  82.416 -20.173  1.00 37.78      A16S
ATOM   2503  C4* G   A 128     113.146  81.257 -21.041  1.00 37.78      A16S
ATOM   2504  O4* G   A 128     114.499  80.868 -20.728  1.00 37.78      A16S
ATOM   2505  C1* G   A 128     114.626  79.460 -20.830  1.00 37.78      A16S
ATOM   2506  N9  G   A 128     115.007  78.935 -19.524  1.00 49.91      A16S
ATOM   2507  C4  G   A 128     115.362  77.641 -19.256  1.00 49.91      A16S
ATOM   2508  N3  G   A 128     115.413  76.637 -20.152  1.00 49.91      A16S
ATOM   2509  C2  G   A 128     115.798  75.505 -19.600  1.00 49.91      A16S
ATOM   2510  N2  G   A 128     115.916  74.399 -20.353  1.00 49.91      A16S
ATOM   2511  N1  G   A 128     116.101  75.371 -18.274  1.00 49.91      A16S
ATOM   2512  C6  G   A 128     116.054  76.396 -17.336  1.00 49.91      A16S
ATOM   2513  O6  G   A 128     116.356  76.172 -16.160  1.00 49.91      A16S
ATOM   2514  C5  G   A 128     115.647  77.611 -17.915  1.00 49.91      A16S
ATOM   2515  N7  G   A 128     115.471  78.864 -17.345  1.00 49.91      A16S
ATOM   2516  C8  G   A 128     115.087  79.617 -18.334  1.00 49.91      A16S
ATOM   2517  C2* G   A 128     113.284  78.905 -21.286  1.00 37.78      A16S
ATOM   2518  O2* G   A 128     113.297  78.761 -22.690  1.00 37.78      A16S
ATOM   2519  C3* G   A 128     112.340  79.993 -20.808  1.00 37.78      A16S
ATOM   2520  O3* G   A 128     111.122  79.978 -21.515  1.00 37.78      A16S
ATOM   2521  P   U   A 129     109.859  79.242 -20.869  1.00 34.15      A16S
ATOM   2522  O1P U   A 129     108.751  79.353 -21.830  1.00 37.94      A16S
ATOM   2523  O2P U   A 129     109.687  79.757 -19.484  1.00 37.94      A16S
ATOM   2524  O5* U   A 129     110.296  77.715 -20.830  1.00 34.15      A16S
ATOM   2525  C5* U   A 129     110.449  76.978 -22.050  1.00 34.15      A16S
ATOM   2526  C4* U   A 129     110.585  75.502 -21.766  1.00 34.15      A16S
ATOM   2527  O4* U   A 129     111.845  75.228 -21.126  1.00 34.15      A16S
ATOM   2528  C1* U   A 129     111.702  74.120 -20.270  1.00 34.15      A16S
ATOM   2529  N1  U   A 129     112.157  74.514 -18.934  1.00 37.94      A16S
ATOM   2530  C6  U   A 129     111.885  75.757 -18.435  1.00 37.94      A16S
ATOM   2531  C2  U   A 129     112.876  73.585 -18.197  1.00 37.94      A16S
ATOM   2532  O2  U   A 129     113.129  72.444 -18.599  1.00 37.94      A16S
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ATOM   2533  N3  U   A 129      113.285  74.033 -16.968  1.00 37.94      A16S
ATOM   2534  C4  U   A 129      113.047  75.274 -16.413  1.00 37.94      A16S
ATOM   2535  O4  U   A 129      113.490  75.533 -15.293  1.00 37.94      A16S
ATOM   2536  C5  U   A 129      112.291  76.157 -17.235  1.00 37.94      A16S
ATOM   2537  C2* U   A 129      110.247  73.651 -20.323  1.00 34.15      A16S
ATOM   2538  O2* U   A 129      110.147  72.561 -21.219  1.00 34.15      A16S
ATOM   2539  C3* U   A 129      109.537  74.884 -20.859  1.00 34.15      A16S
ATOM   2540  O3* U   A 129      108.436  74.492 -21.651  1.00 34.15      A16S
ATOM   2541  P   G   A 129A     106.967  74.452 -21.029  1.00 45.36      A16S
ATOM   2542  O1P G   A 129A     106.401  75.807 -21.196  1.00 44.26      A16S
ATOM   2543  O2P G   A 129A     107.028  73.839 -19.677  1.00 44.26      A16S
ATOM   2544  O5* G   A 129A     106.204  73.497 -22.044  1.00 45.36      A16S
ATOM   2545  C5* G   A 129A     106.914  72.474 -22.779  1.00 45.36      A16S
ATOM   2546  C4* G   A 129A     106.835  72.750 -24.263  1.00 45.36      A16S
ATOM   2547  O4* G   A 129A     105.440  72.886 -24.603  1.00 45.36      A16S
ATOM   2548  C1* G   A 129A     105.295  73.815 -25.649  1.00 45.36      A16S
ATOM   2549  N9  G   A 129A     104.103  74.624 -25.415  1.00 44.26      A16S
ATOM   2550  C4  G   A 129A     103.061  74.797 -26.300  1.00 44.26      A16S
ATOM   2551  N3  G   A 129A     102.938  74.206 -27.503  1.00 44.26      A16S
ATOM   2552  C2  G   A 129A     101.845  74.588 -28.133  1.00 44.26      A16S
ATOM   2553  N2  G   A 129A     101.554  74.065 -29.335  1.00 44.26      A16S
ATOM   2554  N1  G   A 129A     100.957  75.500 -27.635  1.00 44.26      A16S
ATOM   2555  C6  G   A 129A     101.069  76.129 -26.405  1.00 44.26      A16S
ATOM   2556  O6  G   A 129A     100.234  76.957 -26.067  1.00 44.26      A16S
ATOM   2557  C5  G   A 129A     102.215  75.701 -25.699  1.00 44.26      A16S
ATOM   2558  N7  G   A 129A     102.680  76.049 -24.435  1.00 44.26      A16S
ATOM   2559  C8  G   A 129A     103.800  75.382 -24.308  1.00 44.26      A16S
ATOM   2560  C2* G   A 129A     106.611  74.577 -25.848  1.00 45.36      A16S
ATOM   2561  O2* G   A 129A     107.116  74.396 -27.152  1.00 45.36      A16S
ATOM   2562  C3* G   A 129A     107.480  74.060 -24.698  1.00 45.36      A16S
ATOM   2563  O3* G   A 129A     108.912  73.939 -24.951  1.00 45.36      A16S
ATOM   2564  P   A   A 130      109.492  72.881 -26.039  1.00 32.40      A16S
ATOM   2565  O1P A   A 130      110.854  73.297 -26.397  1.00 50.38      A16S
ATOM   2566  O2P A   A 130      108.525  72.579 -27.110  1.00 50.38      A16S
ATOM   2567  O5* A   A 130      109.690  71.544 -25.223  1.00 32.40      A16S
ATOM   2568  C5* A   A 130      109.513  70.301 -25.885  1.00 32.40      A16S
ATOM   2569  C4* A   A 130      110.017  69.179 -25.034  1.00 32.40      A16S
ATOM   2570  O4* A   A 130      111.456  69.284 -24.911  1.00 32.40      A16S
ATOM   2571  C1* A   A 130      111.827  69.272 -23.554  1.00 32.40      A16S
ATOM   2572  N9  A   A 130      112.945  70.201 -23.417  1.00 50.38      A16S
ATOM   2573  C4  A   A 130      114.152  69.974 -22.801  1.00 50.38      A16S
ATOM   2574  N3  A   A 130      114.552  68.860 -22.168  1.00 50.38      A16S
ATOM   2575  C2  A   A 130      115.792  69.001 -21.715  1.00 50.38      A16S
ATOM   2576  N1  A   A 130      116.613  70.050 -21.807  1.00 50.38      A16S
ATOM   2577  C6  A   A 130      116.175  71.159 -22.439  1.00 50.38      A16S
ATOM   2578  N6  A   A 130      116.981  72.220 -22.518  1.00 50.38      A16S
ATOM   2579  C5  A   A 130      114.885  71.134 -22.973  1.00 50.38      A16S
ATOM   2580  N7  A   A 130      114.151  72.081 -23.672  1.00 50.38      A16S
ATOM   2581  C8  A   A 130      113.010  71.481 -23.908  1.00 50.38      A16S
ATOM   2582  C2* A   A 130      110.577  69.662 -22.763  1.00 32.40      A16S
ATOM   2583  O2* A   A 130      110.644  69.137 -21.451  1.00 32.40      A16S
ATOM   2584  C3* A   A 130      109.452  69.084 -23.628  1.00 32.40      A16S
ATOM   2585  O3* A   A 130      109.218  67.702 -23.400  1.00 32.40      A16S
ATOM   2586  P   C   A 131      108.132  67.234 -22.318  1.00 47.48      A16S
ATOM   2587  O1P C   A 131      107.796  65.829 -22.656  1.00 32.53      A16S
ATOM   2588  O2P C   A 131      107.041  68.227 -22.143  1.00 32.53      A16S
ATOM   2589  O5* C   A 131      108.985  67.266 -20.984  1.00 47.48      A16S
ATOM   2590  C5* C   A 131      108.375  67.110 -19.718  1.00 47.48      A16S
ATOM   2591  C4* C   A 131      109.323  66.397 -18.816  1.00 47.48      A16S
ATOM   2592  O4* C   A 131      110.561  67.130 -18.782  1.00 47.48      A16S
ATOM   2593  C1* C   A 131      111.103  67.078 -17.481  1.00 47.48      A16S
ATOM   2594  N1  C   A 131      111.131  68.450 -16.948  1.00 32.53      A16S
ATOM   2595  C6  C   A 131      110.465  69.457 -17.578  1.00 32.53      A16S
ATOM   2596  C2  C   A 131      111.832  68.702 -15.773  1.00 32.53      A16S
ATOM   2597  O2  C   A 131      112.492  67.795 -15.259  1.00 32.53      A16S
ATOM   2598  N3  C   A 131      111.790  69.928 -15.230  1.00 32.53      A16S
ATOM   2599  C4  C   A 131      111.110  70.894 -15.827  1.00 32.53      A16S
ATOM   2600  N4  C   A 131      111.069  72.086 -15.226  1.00 32.53      A16S
ATOM   2601  C5  C   A 131      110.432  70.682 -17.060  1.00 32.53      A16S
ATOM   2602  C2* C   A 131      110.213  66.149 -16.653  1.00 47.48      A16S
ATOM   2603  O2* C   A 131      110.710  64.830 -16.748  1.00 47.48      A16S
ATOM   2604  C3* C   A 131      108.888  66.284 -17.377  1.00 47.48      A16S
ATOM   2605  O3* C   A 131      108.085  65.138 -17.227  1.00 47.48      A16S
ATOM   2606  P   C   A 132      107.091  65.033 -15.986  1.00 45.22      A16S
ATOM   2607  O1P C   A 132      106.091  64.033 -16.430  1.00 35.08      A16S
ATOM   2608  O2P C   A 132      106.647  66.388 -15.576  1.00 35.08      A16S
ATOM   2609  O5* C   A 132      108.005  64.442 -14.828  1.00 45.22      A16S
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ATOM   2610  C5* C   A 132     108.622  63.168 -14.990  1.00 45.22      A16S
ATOM   2611  C4* C   A 132     109.587  62.914 -13.871  1.00 45.22      A16S
ATOM   2612  O4* C   A 132     110.649  63.883 -13.960  1.00 45.22      A16S
ATOM   2613  C1* C   A 132     111.107  64.203 -12.663  1.00 45.22      A16S
ATOM   2614  N1  C   A 132     110.900  65.634 -12.431  1.00 35.08      A16S
ATOM   2615  C6  C   A 132     110.092  66.379 -13.242  1.00 35.08      A16S
ATOM   2616  C2  C   A 132     111.534  66.218 -11.344  1.00 35.08      A16S
ATOM   2617  O2  C   A 132     112.275  65.518 -10.640  1.00 35.08      A16S
ATOM   2618  N3  C   A 132     111.328  67.522 -11.078  1.00 35.08      A16S
ATOM   2619  C4  C   A 132     110.521  68.236 -11.853  1.00 35.08      A16S
ATOM   2620  N4  C   A 132     110.322  69.502 -11.527  1.00 35.08      A16S
ATOM   2621  C5  C   A 132     109.876  67.673 -12.991  1.00 35.08      A16S
ATOM   2622  C2* C   A 132     110.301  63.380 -11.662  1.00 45.22      A16S
ATOM   2623  O2* C   A 132     111.007  62.207 -11.318  1.00 45.22      A16S
ATOM   2624  C3* C   A 132     109.046  63.086 -12.461  1.00 45.22      A16S
ATOM   2625  O3* C   A 132     108.384  61.935 -11.965  1.00 45.22      A16S
ATOM   2626  P   U   A 133     107.184  62.115 -10.921  1.00 42.94      A16S
ATOM   2627  O1P U   A 133     106.631  60.779 -10.627  1.00 63.44      A16S
ATOM   2628  O2P U   A 133     106.299  63.169 -11.469  1.00 63.44      A16S
ATOM   2629  O5* U   A 133     107.897  62.652  -9.609  1.00 42.94      A16S
ATOM   2630  C5* U   A 133     108.905  61.870  -8.991  1.00 42.94      A16S
ATOM   2631  C4* U   A 133     109.537  62.637  -7.872  1.00 42.94      A16S
ATOM   2632  O4* U   A 133     110.174  63.827  -8.394  1.00 42.94      A16S
ATOM   2633  C1* U   A 133     110.067  64.877  -7.443  1.00 42.94      A16S
ATOM   2634  N1  U   A 133     109.348  66.007  -8.051  1.00 63.44      A16S
ATOM   2635  C6  U   A 133     108.619  65.864  -9.212  1.00 63.44      A16S
ATOM   2636  C2  U   A 133     109.429  67.225  -7.411  1.00 63.44      A16S
ATOM   2637  O2  U   A 133     110.043  67.391  -6.377  1.00 63.44      A16S
ATOM   2638  N3  U   A 133     108.758  68.243  -8.024  1.00 63.44      A16S
ATOM   2639  C4  U   A 133     108.024  68.174  -9.183  1.00 63.44      A16S
ATOM   2640  O4  U   A 133     107.515  69.200  -9.632  1.00 63.44      A16S
ATOM   2641  C5  U   A 133     107.971  66.879  -9.782  1.00 63.44      A16S
ATOM   2642  C2* U   A 133     109.325  64.330  -6.225  1.00 42.94      A16S
ATOM   2643  O2* U   A 133     110.259  63.927  -5.248  1.00 42.94      A16S
ATOM   2644  C3* U   A 133     108.571  63.157  -6.830  1.00 42.94      A16S
ATOM   2645  O3* U   A 133     108.283  62.186  -5.858  1.00 42.94      A16S
ATOM   2646  P   A   A 134     106.848  62.185  -5.170  1.00 46.57      A16S
ATOM   2647  O1P A   A 134     105.884  61.681  -6.195  1.00 40.30      A16S
ATOM   2648  O2P A   A 134     106.627  63.506  -4.526  1.00 40.30      A16S
ATOM   2649  O5* A   A 134     106.998  61.117  -4.010  1.00 46.57      A16S
ATOM   2650  C5* A   A 134     107.244  59.729  -4.287  1.00 46.57      A16S
ATOM   2651  C4* A   A 134     107.897  59.095  -3.090  1.00 46.57      A16S
ATOM   2652  O4* A   A 134     109.278  59.523  -3.034  1.00 46.57      A16S
ATOM   2653  C1* A   A 134     109.631  59.830  -1.698  1.00 46.57      A16S
ATOM   2654  N9  A   A 134     110.030  61.240  -1.656  1.00 40.30      A16S
ATOM   2655  C4  A   A 134     110.584  61.910  -0.596  1.00 40.30      A16S
ATOM   2656  N3  A   A 134     110.860  61.422   0.616  1.00 40.30      A16S
ATOM   2657  C2  A   A 134     111.384  62.365   1.396  1.00 40.30      A16S
ATOM   2658  N1  A   A 134     111.651  63.642   1.120  1.00 40.30      A16S
ATOM   2659  C6  A   A 134     111.364  64.098  -0.113  1.00 40.30      A16S
ATOM   2660  N6  A   A 134     111.638  65.371  -0.395  1.00 40.30      A16S
ATOM   2661  C5  A   A 134     110.793  63.197  -1.030  1.00 40.30      A16S
ATOM   2662  N7  A   A 134     110.369  63.346  -2.339  1.00 40.30      A16S
ATOM   2663  C8  A   A 134     109.928  62.161  -2.663  1.00 40.30      A16S
ATOM   2664  C2* A   A 134     108.435  59.485  -0.802  1.00 46.57      A16S
ATOM   2665  O2* A   A 134     108.574  58.189  -0.274  1.00 46.57      A16S
ATOM   2666  C3* A   A 134     107.279  59.564  -1.782  1.00 46.57      A16S
ATOM   2667  O3* A   A 134     106.153  58.779  -1.413  1.00 46.57      A16S
ATOM   2668  P   C   A 135     104.777  59.510  -1.013  1.00 41.28      A16S
ATOM   2669  O1P C   A 135     103.749  58.446  -0.847  1.00 63.60      A16S
ATOM   2670  O2P C   A 135     104.526  60.623  -1.964  1.00 63.60      A16S
ATOM   2671  O5* C   A 135     105.110  60.164   0.398  1.00 41.28      A16S
ATOM   2672  C5* C   A 135     105.587  59.345   1.463  1.00 41.28      A16S
ATOM   2673  C4* C   A 135     106.322  60.168   2.484  1.00 41.28      A16S
ATOM   2674  O4* C   A 135     107.541  60.704   1.908  1.00 41.28      A16S
ATOM   2675  C1* C   A 135     107.853  61.938   2.529  1.00 41.28      A16S
ATOM   2676  N1  C   A 135     107.879  62.999   1.515  1.00 63.60      A16S
ATOM   2677  C6  C   A 135     107.253  62.856   0.308  1.00 63.60      A16S
ATOM   2678  C2  C   A 135     108.545  64.172   1.823  1.00 63.60      A16S
ATOM   2679  O2  C   A 135     109.124  64.253   2.911  1.00 63.60      A16S
ATOM   2680  N3  C   A 135     108.554  65.186   0.933  1.00 63.60      A16S
ATOM   2681  C4  C   A 135     107.947  65.042  -0.245  1.00 63.60      A16S
ATOM   2682  N4  C   A 135     108.009  66.066  -1.111  1.00 63.60      A16S
ATOM   2683  C5  C   A 135     107.259  63.843  -0.594  1.00 63.60      A16S
ATOM   2684  C2* C   A 135     106.767  62.219   3.566  1.00 41.28      A16S
ATOM   2685  O2* C   A 135     107.210  61.788   4.834  1.00 41.28      A16S
ATOM   2686  C3* C   A 135     105.610  61.390   3.028  1.00 41.28      A16S
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ATOM	2687	O3*	C	A	135	104.659	61.081	4.022	1.00	41.28	A16S
ATOM	2688	P	C	A	136	103.180	61.697	3.906	1.00	50.40	A16S
ATOM	2689	O1P	C	A	136	102.400	61.150	5.052	1.00	37.28	A16S
ATOM	2690	O2P	C	A	136	102.673	61.528	2.517	1.00	37.28	A16S
ATOM	2691	O5*	C	A	136	103.381	63.259	4.094	1.00	50.40	A16S
ATOM	2692	C5*	C	A	136	103.917	63.814	5.300	1.00	50.40	A16S
ATOM	2693	C4*	C	A	136	103.842	65.314	5.225	1.00	50.40	A16S
ATOM	2694	O4*	C	A	136	104.751	65.782	4.194	1.00	50.40	A16S
ATOM	2695	C1*	C	A	136	104.150	66.837	3.462	1.00	50.40	A16S
ATOM	2696	N1	C	A	136	104.037	66.432	2.051	1.00	37.28	A16S
ATOM	2697	C6	C	A	136	104.182	65.132	1.686	1.00	37.28	A16S
ATOM	2698	C2	C	A	136	103.780	67.405	1.084	1.00	37.28	A16S
ATOM	2699	O2	C	A	136	103.654	68.581	1.433	1.00	37.28	A16S
ATOM	2700	N3	C	A	136	103.675	67.046	-0.209	1.00	37.28	A16S
ATOM	2701	C4	C	A	136	103.822	65.774	-0.554	1.00	37.28	A16S
ATOM	2702	N4	C	A	136	103.716	65.458	-1.844	1.00	37.28	A16S
ATOM	2703	C5	C	A	136	104.086	64.762	0.407	1.00	37.28	A16S
ATOM	2704	C2*	C	A	136	102.794	67.130	4.095	1.00	50.40	A16S
ATOM	2705	O2*	C	A	136	102.915	68.192	5.013	1.00	50.40	A16S
ATOM	2706	C3*	C	A	136	102.480	65.807	4.769	1.00	50.40	A16S
ATOM	2707	O3*	C	A	136	101.544	65.927	5.822	1.00	50.40	A16S
ATOM	2708	P	C	A	137	99.985	65.766	5.493	1.00	55.62	A16S
ATOM	2709	O1P	C	A	137	99.239	65.753	6.767	1.00	45.25	A16S
ATOM	2710	O2P	C	A	137	99.824	64.650	4.538	1.00	45.25	A16S
ATOM	2711	O5*	C	A	137	99.626	67.102	4.722	1.00	55.62	A16S
ATOM	2712	C5*	C	A	137	99.619	68.351	5.409	1.00	55.62	A16S
ATOM	2713	C4*	C	A	137	99.130	69.427	4.488	1.00	55.62	A16S
ATOM	2714	O4*	C	A	137	100.048	69.536	3.374	1.00	55.62	A16S
ATOM	2715	C1*	C	A	137	99.332	69.867	2.199	1.00	55.62	A16S
ATOM	2716	N1	C	A	137	99.632	68.878	1.147	1.00	45.25	A16S
ATOM	2717	C6	C	A	137	100.258	67.697	1.429	1.00	45.25	A16S
ATOM	2718	C2	C	A	137	99.263	69.181	-0.159	1.00	45.25	A16S
ATOM	2719	O2	C	A	137	98.692	70.253	-0.376	1.00	45.25	A16S
ATOM	2720	N3	C	A	137	99.529	68.308	-1.150	1.00	45.25	A16S
ATOM	2721	C4	C	A	137	100.138	67.160	-0.871	1.00	45.25	A16S
ATOM	2722	N4	C	A	137	100.376	66.322	-1.880	1.00	45.25	A16S
ATOM	2723	C5	C	A	137	100.530	66.817	0.459	1.00	45.25	A16S
ATOM	2724	C2*	C	A	137	97.850	69.964	2.557	1.00	55.62	A16S
ATOM	2725	O2*	C	A	137	97.501	71.319	2.759	1.00	55.62	A16S
ATOM	2726	C3*	C	A	137	97.795	69.139	3.833	1.00	55.62	A16S
ATOM	2727	O3*	C	A	137	96.716	69.494	4.667	1.00	55.62	A16S
ATOM	2728	P	G	A	138	95.322	68.725	4.507	1.00	51.71	A16S
ATOM	2729	O1P	G	A	138	94.556	69.054	5.728	1.00	43.68	A16S
ATOM	2730	O2P	G	A	138	95.585	67.311	4.162	1.00	43.68	A16S
ATOM	2731	O5*	G	A	138	94.661	69.401	3.229	1.00	51.71	A16S
ATOM	2732	C5*	G	A	138	94.330	70.788	3.242	1.00	51.71	A16S
ATOM	2733	C4*	G	A	138	93.835	71.219	1.893	1.00	51.71	A16S
ATOM	2734	O4*	G	A	138	94.923	71.202	0.937	1.00	51.71	A16S
ATOM	2735	C1*	G	A	138	94.418	70.891	-0.350	1.00	51.71	A16S
ATOM	2736	N9	G	A	138	95.058	69.674	-0.826	1.00	43.68	A16S
ATOM	2737	C4	G	A	138	95.081	69.222	-2.122	1.00	43.68	A16S
ATOM	2738	N3	G	A	138	94.531	69.836	-3.184	1.00	43.68	A16S
ATOM	2739	C2	G	A	138	94.715	69.150	-4.295	1.00	43.68	A16S
ATOM	2740	N2	G	A	138	94.237	69.608	-5.445	1.00	43.68	A16S
ATOM	2741	N1	G	A	138	95.380	67.959	-4.360	1.00	43.68	A16S
ATOM	2742	C6	G	A	138	95.949	67.303	-3.274	1.00	43.68	A16S
ATOM	2743	O6	G	A	138	96.518	66.208	-3.433	1.00	43.68	A16S
ATOM	2744	C5	G	A	138	95.769	68.031	-2.079	1.00	43.68	A16S
ATOM	2745	N7	G	A	138	96.181	67.746	-0.788	1.00	43.68	A16S
ATOM	2746	C8	G	A	138	95.740	68.748	-0.079	1.00	43.68	A16S
ATOM	2747	C2*	G	A	138	92.913	70.689	-0.220	1.00	51.71	A16S
ATOM	2748	O2*	G	A	138	92.295	71.907	-0.566	1.00	51.71	A16S
ATOM	2749	C3*	G	A	138	92.776	70.340	1.258	1.00	51.71	A16S
ATOM	2750	O3*	G	A	138	91.475	70.576	1.782	1.00	51.71	A16S
ATOM	2751	P	G	A	139	90.421	69.364	1.835	1.00	52.47	A16S
ATOM	2752	O1P	G	A	139	89.215	69.870	2.518	1.00	65.76	A16S
ATOM	2753	O2P	G	A	139	91.082	68.136	2.337	1.00	65.76	A16S
ATOM	2754	O5*	G	A	139	90.069	69.133	0.307	1.00	52.47	A16S
ATOM	2755	C5*	G	A	139	89.432	70.164	-0.423	1.00	52.47	A16S
ATOM	2756	C4*	G	A	139	89.344	69.804	-1.874	1.00	52.47	A16S
ATOM	2757	O4*	G	A	139	90.679	69.656	-2.415	1.00	52.47	A16S
ATOM	2758	C1*	G	A	139	90.637	68.774	-3.524	1.00	52.47	A16S
ATOM	2759	N9	G	A	139	91.588	67.683	-3.331	1.00	65.76	A16S
ATOM	2760	C4	G	A	139	91.919	66.747	-4.284	1.00	65.76	A16S
ATOM	2761	N3	G	A	139	91.454	66.714	-5.551	1.00	65.76	A16S
ATOM	2762	C2	G	A	139	91.921	65.682	-6.223	1.00	65.76	A16S
ATOM	2763	N2	G	A	139	91.560	65.504	-7.504	1.00	65.76	A16S

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ATOM   2764  N1  G   A 139      92.775  64.751  -5.693  1.00 65.76      A16S
ATOM   2765  C6  G   A 139      93.264  64.760  -4.392  1.00 65.76      A16S
ATOM   2766  O6  G   A 139      94.018  63.856  -4.012  1.00 65.76      A16S
ATOM   2767  C5  G   A 139      92.777  65.875  -3.659  1.00 65.76      A16S
ATOM   2768  N7  G   A 139      93.011  66.270  -2.346  1.00 65.76      A16S
ATOM   2769  C8  G   A 139      92.290  67.350  -2.197  1.00 65.76      A16S
ATOM   2770  C2* G   A 139      89.214  68.229  -3.631  1.00 52.47      A16S
ATOM   2771  O2* G   A 139      88.538  68.936  -4.649  1.00 52.47      A16S
ATOM   2772  C3* G   A 139      88.676  68.488  -2.226  1.00 52.47      A16S
ATOM   2773  O3* G   A 139      87.252  68.542  -2.180  1.00 52.47      A16S
ATOM   2774  P   A   A 140      86.418  67.183  -1.942  1.00 68.31      A16S
ATOM   2775  O1P A   A 140      84.973  67.530  -1.944  1.00 55.99      A16S
ATOM   2776  O2P A   A 140      86.999  66.483  -0.767  1.00 55.99      A16S
ATOM   2777  O5* A   A 140      86.697  66.340  -3.265  1.00 68.31      A16S
ATOM   2778  C5* A   A 140      86.256  66.844  -4.530  1.00 68.31      A16S
ATOM   2779  C4* A   A 140      86.420  65.809  -5.604  1.00 68.31      A16S
ATOM   2780  O4* A   A 140      87.815  65.653  -5.958  1.00 68.31      A16S
ATOM   2781  C1* A   A 140      88.050  64.315  -6.376  1.00 68.31      A16S
ATOM   2782  N9  A   A 140      89.080  63.730  -5.521  1.00 55.99      A16S
ATOM   2783  C4  A   A 140      89.879  62.652  -5.819  1.00 55.99      A16S
ATOM   2784  N3  A   A 140      89.872  61.908  -6.940  1.00 55.99      A16S
ATOM   2785  C2  A   A 140      90.817  60.958  -6.882  1.00 55.99      A16S
ATOM   2786  N1  A   A 140      91.697  60.694  -5.906  1.00 55.99      A16S
ATOM   2787  C6  A   A 140      91.670  61.460  -4.794  1.00 55.99      A16S
ATOM   2788  N6  A   A 140      92.543  61.210  -3.822  1.00 55.99      A16S
ATOM   2789  C5  A   A 140      90.715  62.491  -4.729  1.00 55.99      A16S
ATOM   2790  N7  A   A 140      90.431  63.432  -3.753  1.00 55.99      A16S
ATOM   2791  C8  A   A 140      89.457  64.138  -4.270  1.00 55.99      A16S
ATOM   2792  C2* A   A 140      86.727  63.561  -6.265  1.00 68.31      A16S
ATOM   2793  O2* A   A 140      86.073  63.559  -7.517  1.00 68.31      A16S
ATOM   2794  C3* A   A 140      85.979  64.407  -5.251  1.00 68.31      A16S
ATOM   2795  O3* A   A 140      84.593  64.220  -5.348  1.00 68.31      A16S
ATOM   2796  P   A   A 141      83.897  63.139  -4.397  1.00 82.32      A16S
ATOM   2797  O1P A   A 141      82.441  63.238  -4.672  1.00 45.26      A16S
ATOM   2798  O2P A   A 141      84.400  63.332  -3.007  1.00 45.26      A16S
ATOM   2799  O5* A   A 141      84.459  61.743  -4.930  1.00 82.32      A16S
ATOM   2800  C5* A   A 141      84.108  61.274  -6.240  1.00 82.32      A16S
ATOM   2801  C4* A   A 141      84.904  60.044  -6.613  1.00 82.32      A16S
ATOM   2802  O4* A   A 141      86.316  60.364  -6.710  1.00 82.32      A16S
ATOM   2803  C1* A   A 141      87.086  59.204  -6.431  1.00 82.32      A16S
ATOM   2804  N9  A   A 141      87.919  59.442  -5.251  1.00 45.26      A16S
ATOM   2805  C4  A   A 141      88.977  58.654  -4.853  1.00 45.26      A16S
ATOM   2806  N3  A   A 141      89.484  57.582  -5.488  1.00 45.26      A16S
ATOM   2807  C2  A   A 141      90.488  57.057  -4.794  1.00 45.26      A16S
ATOM   2808  N1  A   A 141      90.996  57.438  -3.621  1.00 45.26      A16S
ATOM   2809  C6  A   A 141      90.460  58.506  -3.002  1.00 45.26      A16S
ATOM   2810  N6  A   A 141      90.946  58.857  -1.811  1.00 45.26      A16S
ATOM   2811  C5  A   A 141      89.402  59.176  -3.650  1.00 45.26      A16S
ATOM   2812  N7  A   A 141      88.661  60.302  -3.319  1.00 45.26      A16S
ATOM   2813  C8  A   A 141      87.803  60.419  -4.301  1.00 45.26      A16S
ATOM   2814  C2* A   A 141      86.106  58.074  -6.138  1.00 82.32      A16S
ATOM   2815  O2* A   A 141      85.871  57.340  -7.325  1.00 82.32      A16S
ATOM   2816  C3* A   A 141      84.882  58.849  -5.679  1.00 82.32      A16S
ATOM   2817  O3* A   A 141      83.723  58.054  -5.786  1.00 82.32      A16S
ATOM   2818  P   G   A 142      83.302  57.105  -4.554  1.00 74.92      A16S
ATOM   2819  O1P G   A 142      81.995  56.529  -4.961  1.00 37.65      A16S
ATOM   2820  O2P G   A 142      83.414  57.845  -3.255  1.00 37.65      A16S
ATOM   2821  O5* G   A 142      84.377  55.927  -4.574  1.00 74.92      A16S
ATOM   2822  C5* G   A 142      84.395  55.009  -5.670  1.00 74.92      A16S
ATOM   2823  C4* G   A 142      85.601  54.105  -5.615  1.00 74.92      A16S
ATOM   2824  O4* G   A 142      86.817  54.891  -5.538  1.00 74.92      A16S
ATOM   2825  C1* G   A 142      87.821  54.147  -4.874  1.00 74.92      A16S
ATOM   2826  N9  G   A 142      88.228  54.862  -3.666  1.00 37.65      A16S
ATOM   2827  C4  G   A 142      89.348  54.606  -2.915  1.00 37.65      A16S
ATOM   2828  N3  G   A 142      90.258  53.648  -3.160  1.00 37.65      A16S
ATOM   2829  C2  G   A 142      91.221  53.638  -2.264  1.00 37.65      A16S
ATOM   2830  N2  G   A 142      92.194  52.738  -2.357  1.00 37.65      A16S
ATOM   2831  N1  G   A 142      91.300  54.507  -1.214  1.00 37.65      A16S
ATOM   2832  C6  G   A 142      90.382  55.516  -0.944  1.00 37.65      A16S
ATOM   2833  O6  G   A 142      90.559  56.274   0.028  1.00 37.65      A16S
ATOM   2834  C5  G   A 142      89.324  55.525  -1.894  1.00 37.65      A16S
ATOM   2835  N7  G   A 142      88.209  56.345  -1.994  1.00 37.65      A16S
ATOM   2836  C8  G   A 142      87.587  55.914  -3.056  1.00 37.65      A16S
ATOM   2837  C2* G   A 142      87.219  52.786  -4.548  1.00 74.92      A16S
ATOM   2838  O2* G   A 142      87.473  51.950  -5.656  1.00 74.92      A16S
ATOM   2839  C3* G   A 142      85.735  53.118  -4.469  1.00 74.92      A16S
ATOM   2840  O3* G   A 142      84.933  51.952  -4.655  1.00 74.92      A16S
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ATOM   2841  P    A   A 143      84.637  50.979  -3.403  1.00 82.08      A16S
ATOM   2842  O1P  A   A 143      83.654  49.971  -3.852  1.00 56.58      A16S
ATOM   2843  O2P  A   A 143      84.373  51.789  -2.186  1.00 56.58      A16S
ATOM   2844  O5*  A   A 143      85.996  50.195  -3.181  1.00 82.08      A16S
ATOM   2845  C5*  A   A 143      86.379  49.111  -4.042  1.00 82.08      A16S
ATOM   2846  C4*  A   A 143      87.610  48.459  -3.486  1.00 82.08      A16S
ATOM   2847  O4*  A   A 143      88.633  49.480  -3.370  1.00 82.08      A16S
ATOM   2848  C1*  A   A 143      89.304  49.359  -2.131  1.00 82.08      A16S
ATOM   2849  N9   A   A 143      88.999  50.552  -1.347  1.00 56.58      A16S
ATOM   2850  C4   A   A 143      89.764  51.083  -0.342  1.00 56.58      A16S
ATOM   2851  N3   A   A 143      90.945  50.627   0.111  1.00 56.58      A16S
ATOM   2852  C2   A   A 143      91.386  51.393   1.112  1.00 56.58      A16S
ATOM   2853  N1   A   A 143      90.819  52.480   1.667  1.00 56.58      A16S
ATOM   2854  C6   A   A 143      89.631  52.907   1.182  1.00 56.58      A16S
ATOM   2855  N6   A   A 143      89.058  53.983   1.733  1.00 56.58      A16S
ATOM   2856  C5   A   A 143      89.063  52.184   0.121  1.00 56.58      A16S
ATOM   2857  N7   A   A 143      87.884  52.349  -0.589  1.00 56.58      A16S
ATOM   2858  C8   A   A 143      87.894  51.360  -1.444  1.00 56.58      A16S
ATOM   2859  C2*  A   A 143      88.791  48.093  -1.448  1.00 82.08      A16S
ATOM   2860  O2*  A   A 143      89.636  47.002  -1.751  1.00 82.08      A16S
ATOM   2861  C3*  A   A 143      87.409  47.959  -2.067  1.00 82.08      A16S
ATOM   2862  O3*  A   A 143      86.916  46.634  -2.049  1.00 82.08      A16S
ATOM   2863  P    G   A 144      86.024  46.147  -0.817  1.00104.29      A16S
ATOM   2864  O1P  G   A 144      85.046  47.224  -0.524  1.00 80.88      A16S
ATOM   2865  O2P  G   A 144      86.938  45.682   0.248  1.00 80.88      A16S
ATOM   2866  O5*  G   A 144      85.241  44.901  -1.409  1.00104.29      A16S
ATOM   2867  C5*  G   A 144      83.882  45.035  -1.845  1.00104.29      A16S
ATOM   2868  C4*  G   A 144      83.657  44.225  -3.092  1.00104.29      A16S
ATOM   2869  O4*  G   A 144      84.186  44.925  -4.249  1.00104.29      A16S
ATOM   2870  C1*  G   A 144      84.709  43.983  -5.177  1.00104.29      A16S
ATOM   2871  N9   G   A 144      86.144  44.228  -5.324  1.00 80.88      A16S
ATOM   2872  C4   G   A 144      86.982  43.637  -6.241  1.00 80.88      A16S
ATOM   2873  N3   G   A 144      86.615  42.770  -7.200  1.00 80.88      A16S
ATOM   2874  C2   G   A 144      87.646  42.349  -7.900  1.00 80.88      A16S
ATOM   2875  N2   G   A 144      87.453  41.479  -8.894  1.00 80.88      A16S
ATOM   2876  N1   G   A 144      88.939  42.746  -7.677  1.00 80.88      A16S
ATOM   2877  C6   G   A 144      89.342  43.633  -6.686  1.00 80.88      A16S
ATOM   2878  O6   G   A 144      90.541  43.908  -6.546  1.00 80.88      A16S
ATOM   2879  C5   G   A 144      88.244  44.101  -5.935  1.00 80.88      A16S
ATOM   2880  N7   G   A 144      88.199  44.995  -4.874  1.00 80.88      A16S
ATOM   2881  C8   G   A 144      86.935  45.048  -4.551  1.00 80.88      A16S
ATOM   2882  C2*  G   A 144      84.454  42.583  -4.605  1.00104.29      A16S
ATOM   2883  O2*  G   A 144      83.268  42.020  -5.135  1.00104.29      A16S
ATOM   2884  C3*  G   A 144      84.358  42.879  -3.114  1.00104.29      A16S
ATOM   2885  O3*  G   A 144      83.682  41.882  -2.367  1.00104.29      A16S
ATOM   2886  P    G   A 145      84.542  40.827  -1.508  1.00 90.96      A16S
ATOM   2887  O1P  G   A 145      83.574  40.102  -0.640  1.00 74.62      A16S
ATOM   2888  O2P  G   A 145      85.704  41.534  -0.885  1.00 74.62      A16S
ATOM   2889  O5*  G   A 145      85.073  39.802  -2.610  1.00 90.96      A16S
ATOM   2890  C5*  G   A 145      84.139  38.993  -3.346  1.00 90.96      A16S
ATOM   2891  C4*  G   A 145      84.827  38.238  -4.454  1.00 90.96      A16S
ATOM   2892  O4*  G   A 145      85.328  39.160  -5.455  1.00 90.96      A16S
ATOM   2893  C1*  G   A 145      86.478  38.605  -6.081  1.00 90.96      A16S
ATOM   2894  N9   G   A 145      87.622  39.487  -5.854  1.00 74.62      A16S
ATOM   2895  C4   G   A 145      88.841  39.408  -6.485  1.00 74.62      A16S
ATOM   2896  N3   G   A 145      89.164  38.552  -7.472  1.00 74.62      A16S
ATOM   2897  C2   G   A 145      90.415  38.699  -7.859  1.00 74.62      A16S
ATOM   2898  N2   G   A 145      90.894  37.943  -8.852  1.00 74.62      A16S
ATOM   2899  N1   G   A 145      91.285  39.598  -7.301  1.00 74.62      A16S
ATOM   2900  C6   G   A 145      90.976  40.475  -6.269  1.00 74.62      A16S
ATOM   2901  O6   G   A 145      91.847  41.220  -5.807  1.00 74.62      A16S
ATOM   2902  C5   G   A 145      89.632  40.353  -5.872  1.00 74.62      A16S
ATOM   2903  N7   G   A 145      88.915  41.052  -4.913  1.00 74.62      A16S
ATOM   2904  C8   G   A 145      87.726  40.512  -4.942  1.00 74.62      A16S
ATOM   2905  C2*  G   A 145      86.735  37.242  -5.434  1.00 90.96      A16S
ATOM   2906  O2*  G   A 145      86.175  36.204  -6.218  1.00 90.96      A16S
ATOM   2907  C3*  G   A 145      86.040  37.403  -4.090  1.00 90.96      A16S
ATOM   2908  O3*  G   A 145      85.712  36.148  -3.529  1.00 90.96      A16S
ATOM   2909  P    G   A 146      86.801  35.381  -2.631  1.00 72.49      A16S
ATOM   2910  O1P  G   A 146      86.095  34.230  -2.018  1.00 79.57      A16S
ATOM   2911  O2P  G   A 146      87.475  36.371  -1.750  1.00 79.57      A16S
ATOM   2912  O5*  G   A 146      87.864  34.836  -3.695  1.00 72.49      A16S
ATOM   2913  C5*  G   A 146      87.457  33.907  -4.720  1.00 72.49      A16S
ATOM   2914  C4*  G   A 146      88.520  33.755  -5.795  1.00 72.49      A16S
ATOM   2915  O4*  G   A 146      88.837  35.044  -6.377  1.00 72.49      A16S
ATOM   2916  C1*  G   A 146      90.164  35.020  -6.886  1.00 72.49      A16S
ATOM   2917  N9   G   A 146      90.949  36.079  -6.254  1.00 79.57      A16S
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ATOM   2918  C4   G   A 146      92.240  36.428  -6.577  1.00 79.57      A16S
ATOM   2919  N3   G   A 146      92.989  35.874  -7.553  1.00 79.57      A16S
ATOM   2920  C2   G   A 146      94.183  36.420  -7.625  1.00 79.57      A16S
ATOM   2921  N2   G   A 146      95.040  36.000  -8.555  1.00 79.57      A16S
ATOM   2922  N1   G   A 146      94.619  37.423  -6.794  1.00 79.57      A16S
ATOM   2923  C6   G   A 146      93.864  38.006  -5.776  1.00 79.57      A16S
ATOM   2924  O6   G   A 146      94.351  38.906  -5.070  1.00 79.57      A16S
ATOM   2925  C5   G   A 146      92.575  37.438  -5.702  1.00 79.57      A16S
ATOM   2926  N7   G   A 146      91.513  37.734  -4.860  1.00 79.57      A16S
ATOM   2927  C8   G   A 146      90.572  36.904  -5.222  1.00 79.57      A16S
ATOM   2928  C2*  G   A 146      90.754  33.645  -6.583  1.00 72.49      A16S
ATOM   2929  O2*  G   A 146      90.638  32.825  -7.727  1.00 72.49      A16S
ATOM   2930  C3*  G   A 146      89.879  33.176  -5.427  1.00 72.49      A16S
ATOM   2931  O3*  G   A 146      89.878  31.760  -5.386  1.00 72.49      A16S
ATOM   2932  P    G   A 147      91.040  30.987  -4.587  1.00 73.66      A16S
ATOM   2933  O1P  G   A 147      90.687  29.544  -4.640  1.00 69.85      A16S
ATOM   2934  O2P  G   A 147      91.245  31.651  -3.268  1.00 69.85      A16S
ATOM   2935  O5*  G   A 147      92.355  31.183  -5.468  1.00 73.66      A16S
ATOM   2936  C5*  G   A 147      92.606  30.340  -6.608  1.00 73.66      A16S
ATOM   2937  C4*  G   A 147      93.946  30.662  -7.231  1.00 73.66      A16S
ATOM   2938  O4*  G   A 147      93.997  32.080  -7.539  1.00 73.66      A16S
ATOM   2939  C1*  G   A 147      95.328  32.553  -7.411  1.00 73.66      A16S
ATOM   2940  N9   G   A 147      95.378  33.539  -6.336  1.00 69.85      A16S
ATOM   2941  C4   G   A 147      96.449  34.336  -6.022  1.00 69.85      A16S
ATOM   2942  N3   G   A 147      97.631  34.365  -6.676  1.00 69.85      A16S
ATOM   2943  C2   G   A 147      98.465  35.243  -6.149  1.00 69.85      A16S
ATOM   2944  N2   G   A 147      99.673  35.423  -6.705  1.00 69.85      A16S
ATOM   2945  N1   G   A 147      98.171  36.012  -5.045  1.00 69.85      A16S
ATOM   2946  C6   G   A 147      96.960  35.989  -4.351  1.00 69.85      A16S
ATOM   2947  O6   G   A 147      96.791  36.718  -3.360  1.00 69.85      A16S
ATOM   2948  C5   G   A 147      96.051  35.069  -4.926  1.00 69.85      A16S
ATOM   2949  N7   G   A 147      94.751  34.750  -4.565  1.00 69.85      A16S
ATOM   2950  C8   G   A 147      94.392  33.841  -5.428  1.00 69.85      A16S
ATOM   2951  C2*  G   A 147      96.202  31.356  -7.062  1.00 73.66      A16S
ATOM   2952  O2*  G   A 147      96.741  30.835  -8.262  1.00 73.66      A16S
ATOM   2953  C3*  G   A 147      95.192  30.432  -6.391  1.00 73.66      A16S
ATOM   2954  O3*  G   A 147      95.631  29.082  -6.391  1.00 73.66      A16S
ATOM   2955  P    G   A 148      96.597  28.564  -5.211  1.00 69.85      A16S
ATOM   2956  O1P  G   A 148      96.723  27.092  -5.358  1.00 66.92      A16S
ATOM   2957  O2P  G   A 148      96.133  29.140  -3.925  1.00 66.92      A16S
ATOM   2958  O5*  G   A 148      98.014  29.218  -5.535  1.00 69.85      A16S
ATOM   2959  C5*  G   A 148      98.654  29.006  -6.807  1.00 69.85      A16S
ATOM   2960  C4*  G   A 148      99.946  29.787  -6.887  1.00 69.85      A16S
ATOM   2961  O4*  G   A 148      99.674  31.210  -6.911  1.00 69.85      A16S
ATOM   2962  C1*  G   A 148     100.705  31.906  -6.228  1.00 69.85      A16S
ATOM   2963  N9   G   A 148     100.121  32.590  -5.079  1.00 66.92      A16S
ATOM   2964  C4   G   A 148     100.724  33.546  -4.284  1.00 66.92      A16S
ATOM   2965  N3   G   A 148     101.966  34.057  -4.444  1.00 66.92      A16S
ATOM   2966  C2   G   A 148     102.249  34.960  -3.517  1.00 66.92      A16S
ATOM   2967  N2   G   A 148     103.425  35.592  -3.526  1.00 66.92      A16S
ATOM   2968  N1   G   A 148     101.396  35.317  -2.513  1.00 66.92      A16S
ATOM   2969  C6   G   A 148     100.121  34.799  -2.327  1.00 66.92      A16S
ATOM   2970  O6   G   A 148      99.432  35.183  -1.377  1.00 66.92      A16S
ATOM   2971  C5   G   A 148      99.794  33.849  -3.316  1.00 66.92      A16S
ATOM   2972  N7   G   A 148      98.629  33.121  -3.506  1.00 66.92      A16S
ATOM   2973  C8   G   A 148      98.866  32.393  -4.559  1.00 66.92      A16S
ATOM   2974  C2*  G   A 148     101.743  30.875  -5.795  1.00 69.85      A16S
ATOM   2975  O2*  G   A 148     102.740  30.802  -6.789  1.00 69.85      A16S
ATOM   2976  C3*  G   A 148     100.907  29.606  -5.727  1.00 69.85      A16S
ATOM   2977  O3*  G   A 148     101.695  28.437  -5.882  1.00 69.85      A16S
ATOM   2978  P    A   A 149     102.472  27.826  -4.613  1.00 53.73      A16S
ATOM   2979  O1P  A   A 149     102.670  26.370  -4.895  1.00 57.77      A16S
ATOM   2980  O2P  A   A 149     101.764  28.253  -3.361  1.00 57.77      A16S
ATOM   2981  O5*  A   A 149     103.893  28.550  -4.653  1.00 53.73      A16S
ATOM   2982  C5*  A   A 149     104.575  28.775  -5.903  1.00 53.73      A16S
ATOM   2983  C4*  A   A 149     105.573  29.898  -5.758  1.00 53.73      A16S
ATOM   2984  O4*  A   A 149     104.888  31.139  -5.466  1.00 53.73      A16S
ATOM   2985  C1*  A   A 149     105.663  31.915  -4.570  1.00 53.73      A16S
ATOM   2986  N9   A   A 149     104.841  32.211  -3.391  1.00 57.77      A16S
ATOM   2987  C4   A   A 149     105.157  33.054  -2.354  1.00 57.77      A16S
ATOM   2988  N3   A   A 149     106.294  33.742  -2.181  1.00 57.77      A16S
ATOM   2989  C2   A   A 149     106.225  34.484  -1.082  1.00 57.77      A16S
ATOM   2990  N1   A   A 149     105.223  34.613  -0.209  1.00 57.77      A16S
ATOM   2991  C6   A   A 149     104.094  33.911  -0.415  1.00 57.77      A16S
ATOM   2992  N6   A   A 149     103.085  34.056   0.444  1.00 57.77      A16S
ATOM   2993  C5   A   A 149     104.046  33.074  -1.533  1.00 57.77      A16S
ATOM   2994  N7   A   A 149     103.060  32.231  -2.019  1.00 57.77      A16S
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ATOM   2995  C8  A   A 149     103.581  31.739  -3.114  1.00 57.77      A16S
ATOM   2996  C2* A   A 149     106.961  31.154  -4.289  1.00 53.73      A16S
ATOM   2997  O2* A   A 149     108.004  31.604  -5.132  1.00 53.73      A16S
ATOM   2998  C3* A   A 149     106.556  29.728  -4.620  1.00 53.73      A16S
ATOM   2999  O3* A   A 149     107.664  28.968  -5.023  1.00 53.73      A16S
ATOM   3000  P   C   A 150     108.597  28.309  -3.910  1.00 56.25      A16S
ATOM   3001  O1P C   A 150     109.594  27.437  -4.592  1.00 51.39      A16S
ATOM   3002  O2P C   A 150     107.723  27.742  -2.843  1.00 51.39      A16S
ATOM   3003  O5* C   A 150     109.353  29.557  -3.288  1.00 56.25      A16S
ATOM   3004  C5* C   A 150     110.304  30.306  -4.045  1.00 56.25      A16S
ATOM   3005  C4* C   A 150     110.910  31.351  -3.158  1.00 56.25      A16S
ATOM   3006  O4* C   A 150     109.847  32.219  -2.692  1.00 56.25      A16S
ATOM   3007  C1* C   A 150     110.061  32.561  -1.338  1.00 56.25      A16S
ATOM   3008  N1  C   A 150     108.856  32.201  -0.570  1.00 51.39      A16S
ATOM   3009  C6  C   A 150     108.020  31.213  -1.008  1.00 51.39      A16S
ATOM   3010  C2  C   A 150     108.565  32.898   0.611  1.00 51.39      A16S
ATOM   3011  O2  C   A 150     109.345  33.784   1.000  1.00 51.39      A16S
ATOM   3012  N3  C   A 150     107.439  32.590   1.296  1.00 51.39      A16S
ATOM   3013  C4  C   A 150     106.620  31.640   0.840  1.00 51.39      A16S
ATOM   3014  N4  C   A 150     105.501  31.392   1.523  1.00 51.39      A16S
ATOM   3015  C5  C   A 150     106.904  30.907  -0.343  1.00 51.39      A16S
ATOM   3016  C2* C   A 150     111.363  31.901  -0.879  1.00 56.25      A16S
ATOM   3017  O2* C   A 150     112.401  32.852  -0.923  1.00 56.25      A16S
ATOM   3018  C3* C   A 150     111.528  30.776  -1.898  1.00 56.25      A16S
ATOM   3019  O3* C   A 150     112.885  30.412  -2.146  1.00 56.25      A16S
ATOM   3020  P   A   A 151     113.727  29.642  -1.014  1.00 36.66      A16S
ATOM   3021  O1P A   A 151     115.180  29.730  -1.356  1.00 44.26      A16S
ATOM   3022  O2P A   A 151     113.107  28.307  -0.756  1.00 44.26      A16S
ATOM   3023  O5* A   A 151     113.471  30.538   0.266  1.00 36.66      A16S
ATOM   3024  C5* A   A 151     114.144  30.283   1.489  1.00 36.66      A16S
ATOM   3025  C4* A   A 151     114.252  31.559   2.261  1.00 36.66      A16S
ATOM   3026  O4* A   A 151     112.990  32.258   2.209  1.00 36.66      A16S
ATOM   3027  C1* A   A 151     112.802  32.951   3.413  1.00 36.66      A16S
ATOM   3028  N9  A   A 151     111.475  32.637   3.921  1.00 44.26      A16S
ATOM   3029  C4  A   A 151     110.880  33.199   5.020  1.00 44.26      A16S
ATOM   3030  N3  A   A 151     111.419  34.080   5.872  1.00 44.26      A16S
ATOM   3031  C2  A   A 151     110.530  34.459   6.777  1.00 44.26      A16S
ATOM   3032  N1  A   A 151     109.259  34.086   6.918  1.00 44.26      A16S
ATOM   3033  C6  A   A 151     108.751  33.191   6.047  1.00 44.26      A16S
ATOM   3034  N6  A   A 151     107.479  32.817   6.182  1.00 44.26      A16S
ATOM   3035  C5  A   A 151     109.594  32.711   5.041  1.00 44.26      A16S
ATOM   3036  N7  A   A 151     109.392  31.812   4.004  1.00 44.26      A16S
ATOM   3037  C8  A   A 151     110.542  31.792   3.380  1.00 44.26      A16S
ATOM   3038  C2* A   A 151     113.983  32.660   4.337  1.00 36.66      A16S
ATOM   3039  O2* A   A 151     114.894  33.728   4.214  1.00 36.66      A16S
ATOM   3040  C3* A   A 151     114.556  31.393   3.728  1.00 36.66      A16S
ATOM   3041  O3* A   A 151     115.952  31.311   3.910  1.00 36.66      A16S
ATOM   3042  P   A   A 152     116.539  30.229   4.922  1.00 41.89      A16S
ATOM   3043  O1P A   A 152     117.971  30.528   5.213  1.00 50.89      A16S
ATOM   3044  O2P A   A 152     116.161  28.913   4.364  1.00 50.89      A16S
ATOM   3045  O5* A   A 152     115.707  30.480   6.253  1.00 41.89      A16S
ATOM   3046  C5* A   A 152     115.908  31.683   6.983  1.00 41.89      A16S
ATOM   3047  C4* A   A 152     114.790  31.917   7.958  1.00 41.89      A16S
ATOM   3048  O4* A   A 152     113.527  32.074   7.269  1.00 41.89      A16S
ATOM   3049  C1* A   A 152     112.479  31.784   8.172  1.00 41.89      A16S
ATOM   3050  N9  A   A 152     111.550  30.846   7.549  1.00 50.89      A16S
ATOM   3051  C4  A   A 152     110.289  30.567   8.016  1.00 50.89      A16S
ATOM   3052  N3  A   A 152     109.669  31.125   9.067  1.00 50.89      A16S
ATOM   3053  C2  A   A 152     108.465  30.597   9.237  1.00 50.89      A16S
ATOM   3054  N1  A   A 152     107.858  29.641   8.538  1.00 50.89      A16S
ATOM   3055  C6  A   A 152     108.511  29.093   7.495  1.00 50.89      A16S
ATOM   3056  N6  A   A 152     107.913  28.118   6.814  1.00 50.89      A16S
ATOM   3057  C5  A   A 152     109.793  29.580   7.196  1.00 50.89      A16S
ATOM   3058  N7  A   A 152     110.710  29.262   6.203  1.00 50.89      A16S
ATOM   3059  C8  A   A 152     111.729  30.048   6.451  1.00 50.89      A16S
ATOM   3060  C2* A   A 152     113.108  31.206   9.446  1.00 41.89      A16S
ATOM   3061  O2* A   A 152     113.160  32.200  10.453  1.00 41.89      A16S
ATOM   3062  C3* A   A 152     114.503  30.828   8.970  1.00 41.89      A16S
ATOM   3063  O3* A   A 152     115.426  30.860  10.043  1.00 41.89      A16S
ATOM   3064  P   C   A 153     116.257  29.539  10.402  1.00 49.94      A16S
ATOM   3065  O1P C   A 153     116.929  29.800  11.695  1.00 55.14      A16S
ATOM   3066  O2P C   A 153     117.062  29.141   9.225  1.00 55.14      A16S
ATOM   3067  O5* C   A 153     115.135  28.433  10.613  1.00 49.94      A16S
ATOM   3068  C5* C   A 153     114.292  28.459  11.777  1.00 49.94      A16S
ATOM   3069  C4* C   A 153     113.266  27.361  11.700  1.00 49.94      A16S
ATOM   3070  O4* C   A 153     112.343  27.643  10.619  1.00 49.94      A16S
ATOM   3071  C1* C   A 153     111.999  26.436   9.962  1.00 49.94      A16S
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ATOM   3072  N1  C   A 153     112.465  26.531   8.575  1.00 55.14      A16S
ATOM   3073  C6  C   A 153     113.641  27.162   8.272  1.00 55.14      A16S
ATOM   3074  C2  C   A 153     111.679  25.983   7.566  1.00 55.14      A16S
ATOM   3075  O2  C   A 153     110.650  25.368   7.876  1.00 55.14      A16S
ATOM   3076  N3  C   A 153     112.061  26.129   6.278  1.00 55.14      A16S
ATOM   3077  C4  C   A 153     113.190  26.778   5.990  1.00 55.14      A16S
ATOM   3078  N4  C   A 153     113.507  26.935   4.708  1.00 55.14      A16S
ATOM   3079  C5  C   A 153     114.037  27.305   7.005  1.00 55.14      A16S
ATOM   3080  C2* C   A 153     112.665  25.283  10.708  1.00 49.94      A16S
ATOM   3081  O2* C   A 153     111.756  24.703  11.626  1.00 49.94      A16S
ATOM   3082  C3* C   A 153     113.836  25.994  11.373  1.00 49.94      A16S
ATOM   3083  O3* C   A 153     114.312  25.313  12.517  1.00 49.94      A16S
ATOM   3084  P   C   A 154     115.393  24.146  12.338  1.00 66.48      A16S
ATOM   3085  O1P C   A 154     115.603  23.575  13.691  1.00 87.78      A16S
ATOM   3086  O2P C   A 154     116.553  24.691  11.580  1.00 87.78      A16S
ATOM   3087  O5* C   A 154     114.653  23.070  11.416  1.00 66.48      A16S
ATOM   3088  C5* C   A 154     113.590  22.232  11.938  1.00 66.48      A16S
ATOM   3089  C4* C   A 154     113.273  21.099  10.974  1.00 66.48      A16S
ATOM   3090  O4* C   A 154     112.506  21.590   9.844  1.00 66.48      A16S
ATOM   3091  C1* C   A 154     112.896  20.904   8.663  1.00 66.48      A16S
ATOM   3092  N1  C   A 154     113.494  21.878   7.725  1.00 87.78      A16S
ATOM   3093  C6  C   A 154     114.099  23.012   8.190  1.00 87.78      A16S
ATOM   3094  C2  C   A 154     113.459  21.615   6.345  1.00 87.78      A16S
ATOM   3095  O2  C   A 154     112.879  20.599   5.933  1.00 87.78      A16S
ATOM   3096  N3  C   A 154     114.058  22.478   5.496  1.00 87.78      A16S
ATOM   3097  C4  C   A 154     114.665  23.566   5.970  1.00 87.78      A16S
ATOM   3098  N4  C   A 154     115.265  24.376   5.101  1.00 87.78      A16S
ATOM   3099  C5  C   A 154     114.690  23.871   7.357  1.00 87.78      A16S
ATOM   3100  C2* C   A 154     113.913  19.836   9.063  1.00 66.48      A16S
ATOM   3101  O2* C   A 154     113.287  18.594   9.282  1.00 66.48      A16S
ATOM   3102  C3* C   A 154     114.475  20.407  10.353  1.00 66.48      A16S
ATOM   3103  O3* C   A 154     115.009  19.375  11.163  1.00 66.48      A16S
ATOM   3104  P   C   A 155     116.474  18.805  10.837  1.00 71.69      A16S
ATOM   3105  O1P C   A 155     116.737  17.715  11.813  1.00 95.76      A16S
ATOM   3106  O2P C   A 155     117.411  19.959  10.758  1.00 95.76      A16S
ATOM   3107  O5* C   A 155     116.329  18.161   9.382  1.00 71.69      A16S
ATOM   3108  C5* C   A 155     115.772  16.844   9.213  1.00 71.69      A16S
ATOM   3109  C4* C   A 155     116.137  16.283   7.859  1.00 71.69      A16S
ATOM   3110  O4* C   A 155     115.451  17.039   6.832  1.00 71.69      A16S
ATOM   3111  C1* C   A 155     116.281  17.148   5.685  1.00 71.69      A16S
ATOM   3112  N1  C   A 155     116.583  18.575   5.466  1.00 95.76      A16S
ATOM   3113  C6  C   A 155     116.443  19.479   6.482  1.00 95.76      A16S
ATOM   3114  C2  C   A 155     117.035  18.994   4.205  1.00 95.76      A16S
ATOM   3115  O2  C   A 155     117.140  18.162   3.294  1.00 95.76      A16S
ATOM   3116  N3  C   A 155     117.348  20.292   4.018  1.00 95.76      A16S
ATOM   3117  C4  C   A 155     117.221  21.160   5.025  1.00 95.76      A16S
ATOM   3118  N4  C   A 155     117.554  22.430   4.805  1.00 95.76      A16S
ATOM   3119  C5  C   A 155     116.749  20.766   6.307  1.00 95.76      A16S
ATOM   3120  C2* C   A 155     117.559  16.348   5.953  1.00 71.69      A16S
ATOM   3121  O2* C   A 155     117.477  15.050   5.401  1.00 71.69      A16S
ATOM   3122  C3* C   A 155     117.610  16.346   7.473  1.00 71.69      A16S
ATOM   3123  O3* C   A 155     118.380  15.252   7.958  1.00 71.69      A16S
ATOM   3124  P   G   A 156     119.981  15.375   8.012  1.00 93.16      A16S
ATOM   3125  O1P G   A 156     120.520  14.134   8.626  1.00 99.97      A16S
ATOM   3126  O2P G   A 156     120.326  16.694   8.597  1.00 99.97      A16S
ATOM   3127  O5* G   A 156     120.420  15.383   6.485  1.00 93.16      A16S
ATOM   3128  C5* G   A 156     120.380  14.177   5.717  1.00 93.16      A16S
ATOM   3129  C4* G   A 156     120.743  14.458   4.284  1.00 93.16      A16S
ATOM   3130  O4* G   A 156     119.846  15.477   3.769  1.00 93.16      A16S
ATOM   3131  C1* G   A 156     120.529  16.277   2.815  1.00 93.16      A16S
ATOM   3132  N9  G   A 156     120.569  17.657   3.289  1.00 99.97      A16S
ATOM   3133  C4  G   A 156     120.910  18.754   2.535  1.00 99.97      A16S
ATOM   3134  N3  G   A 156     121.223  18.743   1.224  1.00 99.97      A16S
ATOM   3135  C2  G   A 156     121.534  19.943   0.780  1.00 99.97      A16S
ATOM   3136  N2  G   A 156     121.859  20.103  -0.506  1.00 99.97      A16S
ATOM   3137  N1  G   A 156     121.547  21.070   1.563  1.00 99.97      A16S
ATOM   3138  C6  G   A 156     121.234  21.107   2.920  1.00 99.97      A16S
ATOM   3139  O6  G   A 156     121.291  22.178   3.540  1.00 99.97      A16S
ATOM   3140  C5  G   A 156     120.884  19.820   3.406  1.00 99.97      A16S
ATOM   3141  N7  G   A 156     120.504  19.409   4.677  1.00 99.97      A16S
ATOM   3142  C8  G   A 156     120.321  18.122   4.559  1.00 99.97      A16S
ATOM   3143  C2* G   A 156     121.948  15.726   2.684  1.00 93.16      A16S
ATOM   3144  O2* G   A 156     122.035  14.825   1.596  1.00 93.16      A16S
ATOM   3145  C3* G   A 156     122.126  15.034   4.025  1.00 93.16      A16S
ATOM   3146  O3* G   A 156     123.157  14.064   3.960  1.00 93.16      A16S
ATOM   3147  P   G   A 157     124.688  14.547   4.029  1.00 81.96      A16S
ATOM   3148  O1P G   A 157     125.526  13.320   3.995  1.00137.44      A16S
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ATOM	3149	O2P	G	A	157	124.828	15.501	5.157	1.00137.44	A16S
ATOM	3150	O5*	G	A	157	124.908	15.343	2.666	1.00 81.96	A16S
ATOM	3151	C5*	G	A	157	124.948	14.628	1.425	1.00 81.96	A16S
ATOM	3152	C4*	G	A	157	125.638	15.439	0.356	1.00 81.96	A16S
ATOM	3153	O4*	G	A	157	124.743	16.450	-0.174	1.00 81.96	A16S
ATOM	3154	C1*	G	A	157	125.497	17.584	-0.571	1.00 81.96	A16S
ATOM	3155	N9	G	A	157	125.125	18.707	0.288	1.00137.44	A16S
ATOM	3156	C4	G	A	157	125.439	20.030	0.080	1.00137.44	A16S
ATOM	3157	N3	G	A	157	126.099	20.529	-0.987	1.00137.44	A16S
ATOM	3158	C2	G	A	157	126.287	21.830	-0.886	1.00137.44	A16S
ATOM	3159	N2	G	A	157	126.924	22.485	-1.865	1.00137.44	A16S
ATOM	3160	N1	G	A	157	125.865	22.583	0.183	1.00137.44	A16S
ATOM	3161	C6	G	A	157	125.188	22.091	1.295	1.00137.44	A16S
ATOM	3162	O6	G	A	157	124.868	22.858	2.214	1.00137.44	A16S
ATOM	3163	C5	G	A	157	124.970	20.697	1.192	1.00137.44	A16S
ATOM	3164	N7	G	A	157	124.339	19.819	2.063	1.00137.44	A16S
ATOM	3165	C8	G	A	157	124.446	18.655	1.483	1.00137.44	A16S
ATOM	3166	C2*	G	A	157	126.973	17.244	-0.354	1.00 81.96	A16S
ATOM	3167	O2*	G	A	157	127.534	16.708	-1.534	1.00 81.96	A16S
ATOM	3168	C3*	G	A	157	126.884	16.210	0.754	1.00 81.96	A16S
ATOM	3169	O3*	G	A	157	128.049	15.417	0.825	1.00 81.96	A16S
ATOM	3170	P	G	A	158	129.239	15.862	1.808	1.00116.03	A16S
ATOM	3171	O1P	G	A	158	130.195	14.734	1.913	1.00126.58	A16S
ATOM	3172	O2P	G	A	158	128.632	16.426	3.044	1.00126.58	A16S
ATOM	3173	O5*	G	A	158	129.961	17.033	1.008	1.00116.03	A16S
ATOM	3174	C5*	G	A	158	130.460	16.808	-0.323	1.00116.03	A16S
ATOM	3175	C4*	G	A	158	130.930	18.104	-0.938	1.00116.03	A16S
ATOM	3176	O4*	G	A	158	129.802	19.002	-1.124	1.00116.03	A16S
ATOM	3177	C1*	G	A	158	130.216	20.345	-0.914	1.00116.03	A16S
ATOM	3178	N9	G	A	158	129.467	20.901	0.215	1.00126.58	A16S
ATOM	3179	C4	G	A	158	129.471	22.215	0.640	1.00126.58	A16S
ATOM	3180	N3	G	A	158	130.163	23.232	0.079	1.00126.58	A16S
ATOM	3181	C2	G	A	158	129.977	24.374	0.724	1.00126.58	A16S
ATOM	3182	N2	G	A	158	130.595	25.488	0.300	1.00126.58	A16S
ATOM	3183	N1	G	A	158	129.174	24.506	1.833	1.00126.58	A16S
ATOM	3184	C6	G	A	158	128.453	23.474	2.428	1.00126.58	A16S
ATOM	3185	O6	G	A	158	127.758	23.702	3.430	1.00126.58	A16S
ATOM	3186	C5	G	A	158	128.644	22.243	1.745	1.00126.58	A16S
ATOM	3187	N7	G	A	158	128.122	20.984	2.004	1.00126.58	A16S
ATOM	3188	C8	G	A	158	128.633	20.223	1.074	1.00126.58	A16S
ATOM	3189	C2*	G	A	158	131.722	20.319	-0.647	1.00116.03	A16S
ATOM	3190	O2*	G	A	158	132.428	20.530	-1.855	1.00116.03	A16S
ATOM	3191	C3*	G	A	158	131.915	18.908	-0.110	1.00116.03	A16S
ATOM	3192	O3*	G	A	158	133.253	18.463	-0.256	1.00116.03	A16S
ATOM	3193	P	G	A	159	134.331	18.849	0.866	1.00117.10	A16S
ATOM	3194	O1P	G	A	159	135.671	18.428	0.371	1.00103.34	A16S
ATOM	3195	O2P	G	A	159	133.844	18.363	2.185	1.00103.34	A16S
ATOM	3196	O5*	G	A	159	134.280	20.439	0.902	1.00117.10	A16S
ATOM	3197	C5*	G	A	159	135.006	21.230	-0.059	1.00117.10	A16S
ATOM	3198	C4*	G	A	159	135.370	22.560	0.549	1.00117.10	A16S
ATOM	3199	O4*	G	A	159	134.195	23.400	0.648	1.00117.10	A16S
ATOM	3200	C1*	G	A	159	134.245	24.145	1.852	1.00117.10	A16S
ATOM	3201	N9	G	A	159	133.068	23.812	2.645	1.00103.34	A16S
ATOM	3202	C4	G	A	159	132.598	24.492	3.744	1.00103.34	A16S
ATOM	3203	N3	G	A	159	133.151	25.595	4.291	1.00103.34	A16S
ATOM	3204	C2	G	A	159	132.472	26.016	5.344	1.00103.34	A16S
ATOM	3205	N2	G	A	159	132.882	27.104	6.009	1.00103.34	A16S
ATOM	3206	N1	G	A	159	131.340	25.402	5.822	1.00103.34	A16S
ATOM	3207	C6	G	A	159	130.751	24.270	5.271	1.00103.34	A16S
ATOM	3208	O6	G	A	159	129.723	23.801	5.774	1.00103.34	A16S
ATOM	3209	C5	G	A	159	131.471	23.807	4.144	1.00103.34	A16S
ATOM	3210	N7	G	A	159	131.237	22.720	3.317	1.00103.34	A16S
ATOM	3211	C8	G	A	159	132.208	22.761	2.446	1.00103.34	A16S
ATOM	3212	C2*	G	A	159	135.555	23.811	2.568	1.00117.10	A16S
ATOM	3213	O2*	G	A	159	136.523	24.794	2.277	1.00117.10	A16S
ATOM	3214	C3*	G	A	159	135.904	22.456	1.968	1.00117.10	A16S
ATOM	3215	O3*	G	A	159	137.301	22.207	1.967	1.00117.10	A16S
ATOM	3216	P	A	A	160	137.965	21.421	3.195	1.00 87.70	A16S
ATOM	3217	O1P	A	A	160	139.413	21.271	2.888	1.00137.03	A16S
ATOM	3218	O2P	A	A	160	137.143	20.215	3.470	1.00137.03	A16S
ATOM	3219	O5*	A	A	160	137.811	22.425	4.419	1.00 87.70	A16S
ATOM	3220	C5*	A	A	160	138.346	22.093	5.711	1.00 87.70	A16S
ATOM	3221	C4*	A	A	160	138.851	23.335	6.412	1.00 87.70	A16S
ATOM	3222	O4*	A	A	160	140.040	23.844	5.755	1.00 87.70	A16S
ATOM	3223	C1*	A	A	160	140.065	25.258	5.846	1.00 87.70	A16S
ATOM	3224	N9	A	A	160	140.167	25.812	4.495	1.00137.03	A16S
ATOM	3225	C4	A	A	160	140.448	27.118	4.175	1.00137.03	A16S

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ATOM   3226  N3  A   A 160     140.684  28.133   5.023  1.00137.03      A16S
ATOM   3227  C2  A   A 160     140.917  29.257   4.353  1.00137.03      A16S
ATOM   3228  N1  A   A 160     140.935  29.467   3.032  1.00137.03      A16S
ATOM   3229  C6  A   A 160     140.687  28.426   2.209  1.00137.03      A16S
ATOM   3230  N6  A   A 160     140.690  28.636   0.892  1.00137.03      A16S
ATOM   3231  C5  A   A 160     140.434  27.179   2.794  1.00137.03      A16S
ATOM   3232  N7  A   A 160     140.158  25.934   2.250  1.00137.03      A16S
ATOM   3233  C8  A   A 160     140.008  25.160   3.296  1.00137.03      A16S
ATOM   3234  C2* A   A 160     138.817  25.706   6.612  1.00 87.70      A16S
ATOM   3235  O2* A   A 160     139.153  25.949   7.964  1.00 87.70      A16S
ATOM   3236  C3* A   A 160     137.890  24.508   6.440  1.00 87.70      A16S
ATOM   3237  O3* A   A 160     136.967  24.375   7.510  1.00 87.70      A16S
ATOM   3238  P   A   A 161     135.422  24.721   7.264  1.00105.15      A16S
ATOM   3239  O1P A   A 161     134.627  24.236   8.428  1.00 73.21      A16S
ATOM   3240  O2P A   A 161     135.097  24.225   5.900  1.00 73.21      A16S
ATOM   3241  O5* A   A 161     135.393  26.319   7.250  1.00105.15      A16S
ATOM   3242  C5* A   A 161     135.896  27.090   8.372  1.00105.15      A16S
ATOM   3243  C4* A   A 161     136.356  28.465   7.916  1.00105.15      A16S
ATOM   3244  O4* A   A 161     137.397  28.308   6.918  1.00105.15      A16S
ATOM   3245  C1* A   A 161     137.277  29.316   5.934  1.00105.15      A16S
ATOM   3246  N9  A   A 161     136.962  28.663   4.668  1.00 73.21      A16S
ATOM   3247  C4  A   A 161     137.220  29.132   3.402  1.00 73.21      A16S
ATOM   3248  N3  A   A 161     137.832  30.275   3.063  1.00 73.21      A16S
ATOM   3249  C2  A   A 161     137.903  30.396   1.740  1.00 73.21      A16S
ATOM   3250  N1  A   A 161     137.465  29.570   0.788  1.00 73.21      A16S
ATOM   3251  C6  A   A 161     136.854  28.431   1.158  1.00 73.21      A16S
ATOM   3252  N6  A   A 161     136.413  27.609   0.204  1.00 73.21      A16S
ATOM   3253  C5  A   A 161     136.716  28.181   2.536  1.00 73.21      A16S
ATOM   3254  N7  A   A 161     136.155  27.127   3.243  1.00 73.21      A16S
ATOM   3255  C8  A   A 161     136.330  27.458   4.497  1.00 73.21      A16S
ATOM   3256  C2* A   A 161     136.162  30.264   6.373  1.00105.15      A16S
ATOM   3257  O2* A   A 161     136.728  31.337   7.094  1.00105.15      A16S
ATOM   3258  C3* A   A 161     135.313  29.359   7.253  1.00105.15      A16S
ATOM   3259  O3* A   A 161     134.581  30.118   8.214  1.00105.15      A16S
ATOM   3260  P   A   A 162     133.081  30.598   7.880  1.00 88.87      A16S
ATOM   3261  O1P A   A 162     132.560  31.301   9.084  1.00113.12      A16S
ATOM   3262  O2P A   A 162     132.323  29.457   7.315  1.00113.12      A16S
ATOM   3263  O5* A   A 162     133.266  31.667   6.718  1.00 88.87      A16S
ATOM   3264  C5* A   A 162     133.812  32.976   6.981  1.00 88.87      A16S
ATOM   3265  C4* A   A 162     133.928  33.751   5.691  1.00 88.87      A16S
ATOM   3266  O4* A   A 162     134.865  33.067   4.814  1.00 88.87      A16S
ATOM   3267  C1* A   A 162     134.392  33.103   3.479  1.00 88.87      A16S
ATOM   3268  N9  A   A 162     134.097  31.730   3.064  1.00113.12      A16S
ATOM   3269  C4  A   A 162     134.194  31.223   1.792  1.00113.12      A16S
ATOM   3270  N3  A   A 162     134.610  31.865   0.688  1.00113.12      A16S
ATOM   3271  C2  A   A 162     134.549  31.063  -0.372  1.00113.12      A16S
ATOM   3272  N1  A   A 162     134.146  29.788  -0.449  1.00113.12      A16S
ATOM   3273  C6  A   A 162     133.730  29.173   0.679  1.00113.12      A16S
ATOM   3274  N6  A   A 162     133.318  27.906   0.598  1.00113.12      A16S
ATOM   3275  C5  A   A 162     133.754  29.915   1.874  1.00113.12      A16S
ATOM   3276  N7  A   A 162     133.409  29.593   3.178  1.00113.12      A16S
ATOM   3277  C8  A   A 162     133.637  30.696   3.844  1.00113.12      A16S
ATOM   3278  C2* A   A 162     133.130  33.970   3.461  1.00 88.87      A16S
ATOM   3279  O2* A   A 162     133.459  35.300   3.120  1.00 88.87      A16S
ATOM   3280  C3* A   A 162     132.636  33.823   4.894  1.00 88.87      A16S
ATOM   3281  O3* A   A 162     131.796  34.888   5.318  1.00 88.87      A16S
ATOM   3282  P   C   A 163     130.294  34.568   5.797  1.00 79.03      A16S
ATOM   3283  O1P C   A 163     129.598  35.870   5.940  1.00123.24      A16S
ATOM   3284  O2P C   A 163     130.385  33.655   6.965  1.00123.24      A16S
ATOM   3285  O5* C   A 163     129.645  33.770   4.573  1.00 79.03      A16S
ATOM   3286  C5* C   A 163     129.739  34.290   3.235  1.00 79.03      A16S
ATOM   3287  C4* C   A 163     129.868  33.174   2.216  1.00 79.03      A16S
ATOM   3288  O4* C   A 163     130.738  32.123   2.724  1.00 79.03      A16S
ATOM   3289  C1* C   A 163     130.379  30.881   2.132  1.00 79.03      A16S
ATOM   3290  N1  C   A 163     130.054  29.892   3.179  1.00123.24      A16S
ATOM   3291  C6  C   A 163     129.916  30.257   4.489  1.00123.24      A16S
ATOM   3292  C2  C   A 163     129.856  28.552   2.796  1.00123.24      A16S
ATOM   3293  O2  C   A 163     130.035  28.229   1.611  1.00123.24      A16S
ATOM   3294  N3  C   A 163     129.481  27.647   3.723  1.00123.24      A16S
ATOM   3295  C4  C   A 163     129.315  28.023   4.991  1.00123.24      A16S
ATOM   3296  N4  C   A 163     128.909  27.098   5.865  1.00123.24      A16S
ATOM   3297  C5  C   A 163     129.549  29.364   5.418  1.00123.24      A16S
ATOM   3298  C2* C   A 163     129.176  31.134   1.224  1.00 79.03      A16S
ATOM   3299  O2* C   A 163     129.648  31.272  -0.096  1.00 79.03      A16S
ATOM   3300  C3* C   A 163     128.610  32.431   1.794  1.00 79.03      A16S
ATOM   3301  O3* C   A 163     127.877  33.145   0.802  1.00 79.03      A16S
ATOM   3302  P   U   A 164     126.331  32.783   0.537  1.00100.45      A16S
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ATOM   3303  O1P U   A 164     125.791  33.756  -0.444  1.00117.48      A16S
ATOM   3304  O2P U   A 164     125.654  32.600   1.844  1.00117.48      A16S
ATOM   3305  O5* U   A 164     126.394  31.376  -0.195  1.00100.45      A16S
ATOM   3306  C5* U   A 164     127.182  31.219  -1.376  1.00100.45      A16S
ATOM   3307  C4* U   A 164     127.221  29.773  -1.798  1.00100.45      A16S
ATOM   3308  O4* U   A 164     127.810  28.953  -0.756  1.00100.45      A16S
ATOM   3309  C1* U   A 164     127.252  27.651  -0.814  1.00100.45      A16S
ATOM   3310  N1   U   A 164     126.748  27.264   0.515  1.00117.48      A16S
ATOM   3311  C6   U   A 164     126.533  28.187   1.514  1.00117.48      A16S
ATOM   3312  C2   U   A 164     126.502  25.917   0.733  1.00117.48      A16S
ATOM   3313  O2   U   A 164     126.662  25.067  -0.124  1.00117.48      A16S
ATOM   3314  N3   U   A 164     126.056  25.601   1.989  1.00117.48      A16S
ATOM   3315  C4   U   A 164     125.833  26.468   3.032  1.00117.48      A16S
ATOM   3316  O4   U   A 164     125.463  26.020   4.120  1.00117.48      A16S
ATOM   3317  C5   U   A 164     126.097  27.845   2.731  1.00117.48      A16S
ATOM   3318  C2* U   A 164     126.191  27.637  -1.916  1.00100.45      A16S
ATOM   3319  O2* U   A 164     126.759  27.071  -3.081  1.00100.45      A16S
ATOM   3320  C3* U   A 164     125.879  29.122  -2.068  1.00100.45      A16S
ATOM   3321  O3* U   A 164     125.418  29.449  -3.369  1.00100.45      A16S
ATOM   3322  P    C   A 165     123.858  29.303  -3.713  1.00 84.83      A16S
ATOM   3323  O1P C   A 165     123.610  30.037  -4.983  1.00 99.62      A16S
ATOM   3324  O2P C   A 165     123.067  29.647  -2.500  1.00 99.62      A16S
ATOM   3325  O5* C   A 165     123.699  27.745  -3.996  1.00 84.83      A16S
ATOM   3326  C5* C   A 165     124.459  27.110  -5.042  1.00 84.83      A16S
ATOM   3327  C4* C   A 165     124.190  25.627  -5.059  1.00 84.83      A16S
ATOM   3328  O4* C   A 165     124.802  24.994  -3.908  1.00 84.83      A16S
ATOM   3329  C1* C   A 165     123.989  23.919  -3.475  1.00 84.83      A16S
ATOM   3330  N1   C   A 165     123.603  24.133  -2.069  1.00 99.62      A16S
ATOM   3331  C6   C   A 165     123.770  25.346  -1.461  1.00 99.62      A16S
ATOM   3332  C2   C   A 165     123.054  23.060  -1.359  1.00 99.62      A16S
ATOM   3333  O2   C   A 165     122.899  21.972  -1.940  1.00 99.62      A16S
ATOM   3334  N3   C   A 165     122.700  23.235  -0.067  1.00 99.62      A16S
ATOM   3335  C4   C   A 165     122.874  24.420   0.518  1.00 99.62      A16S
ATOM   3336  N4   C   A 165     122.522  24.542   1.800  1.00 99.62      A16S
ATOM   3337  C5   C   A 165     123.421  25.532  -0.183  1.00 99.62      A16S
ATOM   3338  C2* C   A 165     122.776  23.837  -4.401  1.00 84.83      A16S
ATOM   3339  O2* C   A 165     122.996  22.846  -5.380  1.00 84.83      A16S
ATOM   3340  C3* C   A 165     122.725  25.245  -4.972  1.00 84.83      A16S
ATOM   3341  O3* C   A 165     122.083  25.299  -6.233  1.00 84.83      A16S
ATOM   3342  P    G   A 166     120.493  25.498  -6.294  1.00 73.19      A16S
ATOM   3343  O1P G   A 166     120.137  25.737  -7.712  1.00 75.32      A16S
ATOM   3344  O2P G   A 166     120.092  26.494  -5.261  1.00 75.32      A16S
ATOM   3345  O5* G   A 166     119.925  24.076  -5.847  1.00 73.19      A16S
ATOM   3346  C5* G   A 166     120.180  22.892  -6.633  1.00 73.19      A16S
ATOM   3347  C4* G   A 166     119.655  21.652  -5.932  1.00 73.19      A16S
ATOM   3348  O4* G   A 166     120.476  21.331  -4.776  1.00 73.19      A16S
ATOM   3349  C1* G   A 166     119.671  20.737  -3.766  1.00 73.19      A16S
ATOM   3350  N9   G   A 166     119.675  21.610  -2.598  1.00 75.32      A16S
ATOM   3351  C4   G   A 166     119.193  21.301  -1.350  1.00 75.32      A16S
ATOM   3352  N3   G   A 166     118.671  20.116  -0.973  1.00 75.32      A16S
ATOM   3353  C2   G   A 166     118.277  20.130   0.288  1.00 75.32      A16S
ATOM   3354  N2   G   A 166     117.744  19.029   0.830  1.00 75.32      A16S
ATOM   3355  N1   G   A 166     118.377  21.226   1.109  1.00 75.32      A16S
ATOM   3356  C6   G   A 166     118.905  22.458   0.735  1.00 75.32      A16S
ATOM   3357  O6   G   A 166     118.938  23.388   1.546  1.00 75.32      A16S
ATOM   3358  C5   G   A 166     119.343  22.451  -0.607  1.00 75.32      A16S
ATOM   3359  N7   G   A 166     119.929  23.454  -1.364  1.00 75.32      A16S
ATOM   3360  C8   G   A 166     120.113  22.909  -2.534  1.00 75.32      A16S
ATOM   3361  C2* G   A 166     118.248  20.629  -4.315  1.00 73.19      A16S
ATOM   3362  O2* G   A 166     118.005  19.338  -4.834  1.00 73.19      A16S
ATOM   3363  C3* G   A 166     118.246  21.727  -5.371  1.00 73.19      A16S
ATOM   3364  O3* G   A 166     117.232  21.541  -6.338  1.00 73.19      A16S
ATOM   3365  P    G   A 167     115.757  22.106  -6.040  1.00 58.93      A16S
ATOM   3366  O1P G   A 167     114.961  21.933  -7.284  1.00 92.31      A16S
ATOM   3367  O2P G   A 167     115.865  23.453  -5.423  1.00 92.31      A16S
ATOM   3368  O5* G   A 167     115.199  21.113  -4.927  1.00 58.93      A16S
ATOM   3369  C5* G   A 167     115.180  19.696  -5.154  1.00 58.93      A16S
ATOM   3370  C4* G   A 167     114.656  18.971  -3.940  1.00 58.93      A16S
ATOM   3371  O4* G   A 167     115.616  19.042  -2.850  1.00 58.93      A16S
ATOM   3372  C1* G   A 167     114.918  19.026  -1.612  1.00 58.93      A16S
ATOM   3373  N9   G   A 167     115.252  20.226  -0.857  1.00 92.31      A16S
ATOM   3374  C4   G   A 167     114.905  20.469   0.447  1.00 92.31      A16S
ATOM   3375  N3   G   A 167     114.213  19.632   1.252  1.00 92.31      A16S
ATOM   3376  C2   G   A 167     114.031  20.144   2.458  1.00 92.31      A16S
ATOM   3377  N2   G   A 167     113.373  19.440   3.391  1.00 92.31      A16S
ATOM   3378  N1   G   A 167     114.483  21.383   2.838  1.00 92.31      A16S
ATOM   3379  C6   G   A 167     115.189  22.262   2.021  1.00 92.31      A16S
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ATOM	3380	O6	G	A	167	115.539	23.360	2.457	1.00	92.31	A16S
ATOM	3381	C5	G	A	167	115.400	21.720	0.729	1.00	92.31	A16S
ATOM	3382	N7	G	A	167	116.053	22.251	-0.374	1.00	92.31	A16S
ATOM	3383	C8	G	A	167	115.939	21.331	-1.290	1.00	92.31	A16S
ATOM	3384	C2*	G	A	167	113.419	18.981	-1.914	1.00	58.93	A16S
ATOM	3385	O2*	G	A	167	112.928	17.661	-1.808	1.00	58.93	A16S
ATOM	3386	C3*	G	A	167	113.374	19.514	-3.336	1.00	58.93	A16S
ATOM	3387	O3*	G	A	167	112.215	19.086	-4.009	1.00	58.93	A16S
ATOM	3388	P	G	A	168	110.904	20.015	-3.972	1.00	54.13	A16S
ATOM	3389	O1P	G	A	168	109.867	19.355	-4.814	1.00	89.68	A16S
ATOM	3390	O2P	G	A	168	111.298	21.426	-4.261	1.00	89.68	A16S
ATOM	3391	O5*	G	A	168	110.428	19.954	-2.451	1.00	54.13	A16S
ATOM	3392	C5*	G	A	168	109.849	18.759	-1.907	1.00	54.13	A16S
ATOM	3393	C4*	G	A	168	109.407	18.985	-0.483	1.00	54.13	A16S
ATOM	3394	O4*	G	A	168	110.554	19.227	0.372	1.00	54.13	A16S
ATOM	3395	C1*	G	A	168	110.165	20.038	1.471	1.00	54.13	A16S
ATOM	3396	N9	G	A	168	111.009	21.227	1.536	1.00	89.68	A16S
ATOM	3397	C4	G	A	168	111.173	22.047	2.633	1.00	89.68	A16S
ATOM	3398	N3	G	A	168	110.607	21.875	3.848	1.00	89.68	A16S
ATOM	3399	C2	G	A	168	110.949	22.834	4.692	1.00	89.68	A16S
ATOM	3400	N2	G	A	168	110.486	22.820	5.948	1.00	89.68	A16S
ATOM	3401	N1	G	A	168	111.771	23.876	4.366	1.00	89.68	A16S
ATOM	3402	C6	G	A	168	112.357	24.073	3.122	1.00	89.68	A16S
ATOM	3403	O6	G	A	168	113.072	25.055	2.928	1.00	89.68	A16S
ATOM	3404	C5	G	A	168	112.009	23.052	2.213	1.00	89.68	A16S
ATOM	3405	N7	G	A	168	112.380	22.866	0.890	1.00	89.68	A16S
ATOM	3406	C8	G	A	168	111.768	21.771	0.532	1.00	89.68	A16S
ATOM	3407	C2*	G	A	168	108.700	20.410	1.269	1.00	54.13	A16S
ATOM	3408	O2*	G	A	168	107.908	19.547	2.053	1.00	54.13	A16S
ATOM	3409	C3*	G	A	168	108.521	20.184	-0.226	1.00	54.13	A16S
ATOM	3410	O3*	G	A	168	107.171	19.958	-0.558	1.00	54.13	A16S
ATOM	3411	P	C	A	169	106.209	21.221	-0.804	1.00	58.13	A16S
ATOM	3412	O1P	C	A	169	104.889	20.719	-1.268	1.00	87.66	A16S
ATOM	3413	O2P	C	A	169	106.954	22.207	-1.633	1.00	87.66	A16S
ATOM	3414	O5*	C	A	169	106.024	21.861	0.645	1.00	58.13	A16S
ATOM	3415	C5*	C	A	169	105.563	21.058	1.742	1.00	58.13	A16S
ATOM	3416	C4*	C	A	169	105.495	21.868	3.017	1.00	58.13	A16S
ATOM	3417	O4*	C	A	169	106.814	22.162	3.549	1.00	58.13	A16S
ATOM	3418	C1*	C	A	169	106.719	23.302	4.388	1.00	58.13	A16S
ATOM	3419	N1	C	A	169	107.809	24.255	4.109	1.00	87.66	A16S
ATOM	3420	C6	C	A	169	108.461	24.273	2.909	1.00	87.66	A16S
ATOM	3421	C2	C	A	169	108.162	25.165	5.116	1.00	87.66	A16S
ATOM	3422	O2	C	A	169	107.552	25.134	6.196	1.00	87.66	A16S
ATOM	3423	N3	C	A	169	109.149	26.055	4.890	1.00	87.66	A16S
ATOM	3424	C4	C	A	169	109.779	26.065	3.719	1.00	87.66	A16S
ATOM	3425	N4	C	A	169	110.755	26.958	3.550	1.00	87.66	A16S
ATOM	3426	C5	C	A	169	109.441	25.156	2.672	1.00	87.66	A16S
ATOM	3427	C2*	C	A	169	105.338	23.921	4.190	1.00	58.13	A16S
ATOM	3428	O2*	C	A	169	104.549	23.592	5.310	1.00	58.13	A16S
ATOM	3429	C3*	C	A	169	104.861	23.237	2.914	1.00	58.13	A16S
ATOM	3430	O3*	C	A	169	103.454	23.186	2.847	1.00	58.13	A16S
ATOM	3431	P	U	A	170	102.674	24.386	2.133	1.00	51.60	A16S
ATOM	3432	O1P	U	A	170	101.213	24.150	2.189	1.00	42.06	A16S
ATOM	3433	O2P	U	A	170	103.335	24.555	0.817	1.00	42.06	A16S
ATOM	3434	O5*	U	A	170	103.001	25.637	3.069	1.00	51.60	A16S
ATOM	3435	C5*	U	A	170	102.463	25.709	4.412	1.00	51.60	A16S
ATOM	3436	C4*	U	A	170	102.777	27.043	5.065	1.00	51.60	A16S
ATOM	3437	O4*	U	A	170	104.189	27.141	5.383	1.00	51.60	A16S
ATOM	3438	C1*	U	A	170	104.623	28.478	5.217	1.00	51.60	A16S
ATOM	3439	N1	U	A	170	105.652	28.494	4.165	1.00	42.06	A16S
ATOM	3440	C6	U	A	170	105.568	27.669	3.070	1.00	42.06	A16S
ATOM	3441	C2	U	A	170	106.715	29.356	4.319	1.00	42.06	A16S
ATOM	3442	O2	U	A	170	106.808	30.128	5.257	1.00	42.06	A16S
ATOM	3443	N3	U	A	170	107.664	29.286	3.332	1.00	42.06	A16S
ATOM	3444	C4	U	A	170	107.650	28.469	2.226	1.00	42.06	A16S
ATOM	3445	O4	U	A	170	108.597	28.495	1.441	1.00	42.06	A16S
ATOM	3446	C5	U	A	170	106.505	27.628	2.124	1.00	42.06	A16S
ATOM	3447	C2*	U	A	170	103.399	29.321	4.870	1.00	51.60	A16S
ATOM	3448	O2*	U	A	170	102.861	29.859	6.059	1.00	51.60	A16S
ATOM	3449	C3*	U	A	170	102.480	28.282	4.246	1.00	51.60	A16S
ATOM	3450	O3*	U	A	170	101.117	28.655	4.327	1.00	51.60	A16S
ATOM	3451	P	A	A	171	100.557	29.791	3.339	1.00	38.36	A16S
ATOM	3452	O1P	A	A	171	99.083	29.602	3.146	1.00	46.18	A16S
ATOM	3453	O2P	A	A	171	101.467	29.788	2.152	1.00	46.18	A16S
ATOM	3454	O5*	A	A	171	100.762	31.133	4.176	1.00	38.36	A16S
ATOM	3455	C5*	A	A	171	100.177	31.259	5.480	1.00	38.36	A16S
ATOM	3456	C4*	A	A	171	100.471	32.608	6.073	1.00	38.36	A16S

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ATOM   3457  O4*  A   A 171     101.848  32.690   6.495  1.00 38.36      A16S
ATOM   3458  C1*  A   A 171     102.299  34.021   6.370  1.00 38.36      A16S
ATOM   3459  N9   A   A 171     103.447  34.011   5.469  1.00 46.18      A16S
ATOM   3460  C4   A   A 171     104.549  34.825   5.525  1.00 46.18      A16S
ATOM   3461  N3   A   A 171     104.779  35.832   6.379  1.00 46.18      A16S
ATOM   3462  C2   A   A 171     105.979  36.350   6.171  1.00 46.18      A16S
ATOM   3463  N1   A   A 171     106.904  36.003   5.278  1.00 46.18      A16S
ATOM   3464  C6   A   A 171     106.635  34.990   4.433  1.00 46.18      A16S
ATOM   3465  N6   A   A 171     107.562  34.626   3.549  1.00 46.18      A16S
ATOM   3466  C5   A   A 171     105.399  34.367   4.543  1.00 46.18      A16S
ATOM   3467  N7   A   A 171     104.826  33.322   3.844  1.00 46.18      A16S
ATOM   3468  C8   A   A 171     103.667  33.157   4.425  1.00 46.18      A16S
ATOM   3469  C2*  A   A 171     101.127  34.861   5.867  1.00 38.36      A16S
ATOM   3470  O2*  A   A 171     100.451  35.426   6.977  1.00 38.36      A16S
ATOM   3471  C3*  A   A 171     100.280  33.807   5.175  1.00 38.36      A16S
ATOM   3472  O3*  A   A 171      98.924  34.181   5.094  1.00 38.36      A16S
ATOM   3473  P    A   A 172      98.399  34.960   3.791  1.00 42.33      A16S
ATOM   3474  O1P  A   A 172      96.923  35.086   3.915  1.00 33.94      A16S
ATOM   3475  O2P  A   A 172      98.982  34.343   2.568  1.00 33.94      A16S
ATOM   3476  O5*  A   A 172      98.999  36.417   3.986  1.00 42.33      A16S
ATOM   3477  C5*  A   A 172      98.539  37.233   5.072  1.00 42.33      A16S
ATOM   3478  C4*  A   A 172      99.414  38.443   5.227  1.00 42.33      A16S
ATOM   3479  O4*  A   A 172     100.758  38.029   5.562  1.00 42.33      A16S
ATOM   3480  C1*  A   A 172     101.680  38.910   4.965  1.00 42.33      A16S
ATOM   3481  N9   A   A 172     102.494  38.146   4.018  1.00 33.94      A16S
ATOM   3482  C4   A   A 172     103.829  38.343   3.763  1.00 33.94      A16S
ATOM   3483  N3   A   A 172     104.632  39.263   4.311  1.00 33.94      A16S
ATOM   3484  C2   A   A 172     105.859  39.136   3.847  1.00 33.94      A16S
ATOM   3485  N1   A   A 172     106.339  38.271   2.959  1.00 33.94      A16S
ATOM   3486  C6   A   A 172     105.506  37.374   2.414  1.00 33.94      A16S
ATOM   3487  N6   A   A 172     105.993  36.528   1.512  1.00 33.94      A16S
ATOM   3488  C5   A   A 172     104.181  37.389   2.828  1.00 33.94      A16S
ATOM   3489  N7   A   A 172     103.089  36.610   2.485  1.00 33.94      A16S
ATOM   3490  C8   A   A 172     102.113  37.099   3.214  1.00 33.94      A16S
ATOM   3491  C2*  A   A 172     100.873  40.021   4.300  1.00 42.33      A16S
ATOM   3492  O2*  A   A 172     100.618  41.011   5.275  1.00 42.33      A16S
ATOM   3493  C3*  A   A 172      99.573  39.313   3.997  1.00 42.33      A16S
ATOM   3494  O3*  A   A 172      98.514  40.247   3.908  1.00 42.33      A16S
ATOM   3495  P    U   A 173      98.018  40.752   2.467  1.00 42.04      A16S
ATOM   3496  O1P  U   A 173      98.348  39.695   1.479  1.00 60.30      A16S
ATOM   3497  O2P  U   A 173      96.615  41.222   2.594  1.00 60.30      A16S
ATOM   3498  O5*  U   A 173      98.938  42.015   2.165  1.00 42.04      A16S
ATOM   3499  C5*  U   A 173      98.737  43.256   2.860  1.00 42.04      A16S
ATOM   3500  C4*  U   A 173      99.611  44.343   2.268  1.00 42.04      A16S
ATOM   3501  O4*  U   A 173      99.475  45.531   3.093  1.00 42.04      A16S
ATOM   3502  C1*  U   A 173     100.738  45.896   3.600  1.00 42.04      A16S
ATOM   3503  N1   U   A 173     100.569  46.560   4.904  1.00 60.30      A16S
ATOM   3504  C6   U   A 173      99.408  46.446   5.627  1.00 60.30      A16S
ATOM   3505  C2   U   A 173     101.620  47.333   5.375  1.00 60.30      A16S
ATOM   3506  O2   U   A 173     102.681  47.463   4.780  1.00 60.30      A16S
ATOM   3507  N3   U   A 173     101.390  47.955   6.570  1.00 60.30      A16S
ATOM   3508  C4   U   A 173     100.254  47.889   7.333  1.00 60.30      A16S
ATOM   3509  O4   U   A 173     100.221  48.484   8.413  1.00 60.30      A16S
ATOM   3510  C5   U   A 173      99.218  47.069   6.790  1.00 60.30      A16S
ATOM   3511  C2*  U   A 173     101.592  44.630   3.540  1.00 42.04      A16S
ATOM   3512  O2*  U   A 173     102.967  44.928   3.504  1.00 42.04      A16S
ATOM   3513  C3*  U   A 173     101.104  44.020   2.231  1.00 42.04      A16S
ATOM   3514  O3*  U   A 173     101.711  44.761   1.153  1.00 42.04      A16S
ATOM   3515  P    C   A 174     102.121  44.037  -0.229  1.00 45.03      A16S
ATOM   3516  O1P  C   A 174     102.751  45.082  -1.072  1.00 56.12      A16S
ATOM   3517  O2P  C   A 174     100.958  43.298  -0.758  1.00 56.12      A16S
ATOM   3518  O5*  C   A 174     103.245  42.996   0.201  1.00 45.03      A16S
ATOM   3519  C5*  C   A 174     104.642  43.351   0.201  1.00 45.03      A16S
ATOM   3520  C4*  C   A 174     105.442  42.290  -0.523  1.00 45.03      A16S
ATOM   3521  O4*  C   A 174     105.337  41.046   0.215  1.00 45.03      A16S
ATOM   3522  C1*  C   A 174     105.190  39.954  -0.686  1.00 45.03      A16S
ATOM   3523  N1   C   A 174     103.863  39.349  -0.451  1.00 56.12      A16S
ATOM   3524  C6   C   A 174     102.932  40.006   0.302  1.00 56.12      A16S
ATOM   3525  C2   C   A 174     103.559  38.104  -1.015  1.00 56.12      A16S
ATOM   3526  O2   C   A 174     104.414  37.514  -1.686  1.00 56.12      A16S
ATOM   3527  N3   C   A 174     102.333  37.579  -0.817  1.00 56.12      A16S
ATOM   3528  C4   C   A 174     101.430  38.247  -0.095  1.00 56.12      A16S
ATOM   3529  N4   C   A 174     100.226  37.710   0.056  1.00 56.12      A16S
ATOM   3530  C5   C   A 174     101.718  39.498   0.500  1.00 56.12      A16S
ATOM   3531  C2*  C   A 174     105.357  40.505  -2.105  1.00 45.03      A16S
ATOM   3532  O2*  C   A 174     106.705  40.374  -2.505  1.00 45.03      A16S
ATOM   3533  C3*  C   A 174     104.938  41.957  -1.922  1.00 45.03      A16S
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ATOM   3534  O3*  C   A 174     105.501  42.812  -2.904  1.00 45.03      A16S
ATOM   3535  P    C   A 175     104.536  43.540  -3.958  1.00 46.99      A16S
ATOM   3536  O1P  C   A 175     105.268  44.695  -4.512  1.00 60.02      A16S
ATOM   3537  O2P  C   A 175     103.209  43.755  -3.329  1.00 60.02      A16S
ATOM   3538  O5*  C   A 175     104.376  42.451  -5.103  1.00 46.99      A16S
ATOM   3539  C5*  C   A 175     105.519  42.028  -5.855  1.00 46.99      A16S
ATOM   3540  C4*  C   A 175     105.206  40.780  -6.636  1.00 46.99      A16S
ATOM   3541  O4*  C   A 175     104.974  39.683  -5.722  1.00 46.99      A16S
ATOM   3542  C1*  C   A 175     103.978  38.824  -6.252  1.00 46.99      A16S
ATOM   3543  N1   C   A 175     102.831  38.793  -5.315  1.00 60.02      A16S
ATOM   3544  C6   C   A 175     102.815  39.586  -4.204  1.00 60.02      A16S
ATOM   3545  C2   C   A 175     101.750  37.933  -5.579  1.00 60.02      A16S
ATOM   3546  O2   C   A 175     101.771  37.224  -6.606  1.00 60.02      A16S
ATOM   3547  N3   C   A 175     100.709  37.900  -4.716  1.00 60.02      A16S
ATOM   3548  C4   C   A 175     100.711  38.684  -3.642  1.00 60.02      A16S
ATOM   3549  N4   C   A 175      99.665  38.632  -2.834  1.00 60.02      A16S
ATOM   3550  C5   C   A 175     101.786  39.561  -3.353  1.00 60.02      A16S
ATOM   3551  C2*  C   A 175     103.604  39.357  -7.635  1.00 46.99      A16S
ATOM   3552  O2*  C   A 175     104.391  38.722  -8.627  1.00 46.99      A16S
ATOM   3553  C3*  C   A 175     103.957  40.827  -7.494  1.00 46.99      A16S
ATOM   3554  O3*  C   A 175     104.176  41.434  -8.750  1.00 46.99      A16S
ATOM   3555  P    C   A 176     102.953  42.167  -9.485  1.00 49.14      A16S
ATOM   3556  O1P  C   A 176     103.539  42.889 -10.637  1.00 63.22      A16S
ATOM   3557  O2P  C   A 176     102.168  42.916  -8.472  1.00 63.22      A16S
ATOM   3558  O5*  C   A 176     102.056  40.974 -10.047  1.00 49.14      A16S
ATOM   3559  C5*  C   A 176     102.605  40.030 -10.991  1.00 49.14      A16S
ATOM   3560  C4*  C   A 176     101.648  38.883 -11.227  1.00 49.14      A16S
ATOM   3561  O4*  C   A 176     101.410  38.186  -9.980  1.00 49.14      A16S
ATOM   3562  C1*  C   A 176     100.087  37.681  -9.960  1.00 49.14      A16S
ATOM   3563  N1   C   A 176      99.374  38.255  -8.809  1.00 63.22      A16S
ATOM   3564  C6   C   A 176      99.967  39.180  -8.006  1.00 63.22      A16S
ATOM   3565  C2   C   A 176      98.069  37.845  -8.560  1.00 63.22      A16S
ATOM   3566  O2   C   A 176      97.558  36.987  -9.301  1.00 63.22      A16S
ATOM   3567  N3   C   A 176      97.393  38.386  -7.528  1.00 63.22      A16S
ATOM   3568  C4   C   A 176      97.978  39.297  -6.758  1.00 63.22      A16S
ATOM   3569  N4   C   A 176      97.273  39.818  -5.753  1.00 63.22      A16S
ATOM   3570  C5   C   A 176      99.311  39.720  -6.980  1.00 63.22      A16S
ATOM   3571  C2*  C   A 176      99.425  38.051 -11.288  1.00 49.14      A16S
ATOM   3572  O2*  C   A 176      99.494  36.940 -12.155  1.00 49.14      A16S
ATOM   3573  C3*  C   A 176     100.262  39.242 -11.732  1.00 49.14      A16S
ATOM   3574  O3*  C   A 176     100.249  39.395 -13.137  1.00 49.14      A16S
ATOM   3575  P    C   A 177      99.116  40.295 -13.822  1.00 69.20      A16S
ATOM   3576  O1P  C   A 177      99.479  40.362 -15.259  1.00 61.08      A16S
ATOM   3577  O2P  C   A 177      98.940  41.545 -13.046  1.00 61.08      A16S
ATOM   3578  O5*  C   A 177      97.790  39.429 -13.667  1.00 69.20      A16S
ATOM   3579  C5*  C   A 177      97.657  38.172 -14.361  1.00 69.20      A16S
ATOM   3580  C4*  C   A 177      96.285  37.576 -14.141  1.00 69.20      A16S
ATOM   3581  O4*  C   A 177      96.131  37.163 -12.757  1.00 69.20      A16S
ATOM   3582  C1*  C   A 177      94.774  37.302 -12.371  1.00 69.20      A16S
ATOM   3583  N1   C   A 177      94.693  38.204 -11.221  1.00 61.08      A16S
ATOM   3584  C6   C   A 177      95.715  39.056 -10.919  1.00 61.08      A16S
ATOM   3585  C2   C   A 177      93.536  38.185 -10.441  1.00 61.08      A16S
ATOM   3586  O2   C   A 177      92.623  37.393 -10.737  1.00 61.08      A16S
ATOM   3587  N3   C   A 177      93.435  39.024  -9.392  1.00 61.08      A16S
ATOM   3588  C4   C   A 177      94.434  39.859  -9.111  1.00 61.08      A16S
ATOM   3589  N4   C   A 177      94.288  40.682  -8.074  1.00 61.08      A16S
ATOM   3590  C5   C   A 177      95.628  39.892  -9.883  1.00 61.08      A16S
ATOM   3591  C2*  C   A 177      93.993  37.856 -13.560  1.00 69.20      A16S
ATOM   3592  O2*  C   A 177      93.312  36.790 -14.188  1.00 69.20      A16S
ATOM   3593  C3*  C   A 177      95.104  38.496 -14.391  1.00 69.20      A16S
ATOM   3594  O3*  C   A 177      94.784  38.606 -15.768  1.00 69.20      A16S
ATOM   3595  P    C   A 178      94.056  39.935 -16.299  1.00 71.30      A16S
ATOM   3596  O1P  C   A 178      93.971  39.820 -17.779  1.00 74.92      A16S
ATOM   3597  O2P  C   A 178      94.713  41.119 -15.691  1.00 74.92      A16S
ATOM   3598  O5*  C   A 178      92.588  39.843 -15.685  1.00 71.30      A16S
ATOM   3599  C5*  C   A 178      91.686  38.805 -16.104  1.00 71.30      A16S
ATOM   3600  C4*  C   A 178      90.418  38.825 -15.281  1.00 71.30      A16S
ATOM   3601  O4*  C   A 178      90.715  38.555 -13.887  1.00 71.30      A16S
ATOM   3602  C1*  C   A 178      89.744  39.190 -13.070  1.00 71.30      A16S
ATOM   3603  N1   C   A 178      90.408  40.059 -12.083  1.00 74.92      A16S
ATOM   3604  C6   C   A 178      91.652  40.582 -12.306  1.00 74.92      A16S
ATOM   3605  C2   C   A 178      89.720  40.356 -10.899  1.00 74.92      A16S
ATOM   3606  O2   C   A 178      88.593  39.848 -10.714  1.00 74.92      A16S
ATOM   3607  N3   C   A 178      90.293  41.184  -9.989  1.00 74.92      A16S
ATOM   3608  C4   C   A 178      91.497  41.704 -10.227  1.00 74.92      A16S
ATOM   3609  N4   C   A 178      92.007  42.532  -9.318  1.00 74.92      A16S
ATOM   3610  C5   C   A 178      92.228  41.402 -11.413  1.00 74.92      A16S
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ATOM   3611  C2* C   A 178      88.802  39.980 -13.974  1.00 71.30      A16S
ATOM   3612  O2* C   A 178      87.622  39.234 -14.171  1.00 71.30      A16S
ATOM   3613  C3* C   A 178      89.633  40.125 -15.243  1.00 71.30      A16S
ATOM   3614  O3* C   A 178      88.804  40.286 -16.381  1.00 71.30      A16S
ATOM   3615  P    A   A 179      88.355  41.763 -16.826  1.00 62.33      A16S
ATOM   3616  O1P A   A 179      87.372  41.580 -17.928  1.00 74.39      A16S
ATOM   3617  O2P A   A 179      89.581  42.586 -17.057  1.00 74.39      A16S
ATOM   3618  O5* A   A 179      87.579  42.344 -15.556  1.00 62.33      A16S
ATOM   3619  C5* A   A 179      86.315  41.790 -15.163  1.00 62.33      A16S
ATOM   3620  C4* A   A 179      85.740  42.531 -13.980  1.00 62.33      A16S
ATOM   3621  O4* A   A 179      86.585  42.369 -12.819  1.00 62.33      A16S
ATOM   3622  C1* A   A 179      86.328  43.420 -11.910  1.00 62.33      A16S
ATOM   3623  N9   A   A 179      87.589  43.931 -11.372  1.00 74.39      A16S
ATOM   3624  C4   A   A 179      87.689  44.844 -10.354  1.00 74.39      A16S
ATOM   3625  N3   A   A 179      86.681  45.424  -9.686  1.00 74.39      A16S
ATOM   3626  C2   A   A 179      87.148  46.271  -8.782  1.00 74.39      A16S
ATOM   3627  N1   A   A 179      88.412  46.585  -8.492  1.00 74.39      A16S
ATOM   3628  C6   A   A 179      89.401  45.987  -9.184  1.00 74.39      A16S
ATOM   3629  N6   A   A 179      90.662  46.313  -8.901  1.00 74.39      A16S
ATOM   3630  C5   A   A 179      89.037  45.059 -10.168  1.00 74.39      A16S
ATOM   3631  N7   A   A 179      89.783  44.285 -11.044  1.00 74.39      A16S
ATOM   3632  C8   A   A 179      88.880  43.636 -11.736  1.00 74.39      A16S
ATOM   3633  C2* A   A 179      85.471  44.465 -12.624  1.00 62.33      A16S
ATOM   3634  O2* A   A 179      84.171  44.364 -12.088  1.00 62.33      A16S
ATOM   3635  C3* A   A 179      85.572  44.034 -14.090  1.00 62.33      A16S
ATOM   3636  O3* A   A 179      84.382  44.343 -14.806  1.00 62.33      A16S
ATOM   3637  P    U   A 180      84.190  45.801 -15.451  1.00 53.65      A16S
ATOM   3638  O1P U   A 180      82.876  45.817 -16.135  1.00 78.86      A16S
ATOM   3639  O2P U   A 180      85.414  46.121 -16.221  1.00 78.86      A16S
ATOM   3640  O5* U   A 180      84.108  46.780 -14.199  1.00 53.65      A16S
ATOM   3641  C5* U   A 180      82.900  46.889 -13.449  1.00 53.65      A16S
ATOM   3642  C4* U   A 180      83.058  47.909 -12.358  1.00 53.65      A16S
ATOM   3643  O4* U   A 180      84.060  47.462 -11.414  1.00 53.65      A16S
ATOM   3644  C1* U   A 180      84.777  48.576 -10.913  1.00 53.65      A16S
ATOM   3645  N1   U   A 180      86.190  48.428 -11.291  1.00 78.86      A16S
ATOM   3646  C6   U   A 180      86.583  47.566 -12.283  1.00 78.86      A16S
ATOM   3647  C2   U   A 180      87.116  49.198 -10.615  1.00 78.86      A16S
ATOM   3648  O2   U   A 180      86.810  49.975  -9.724  1.00 78.86      A16S
ATOM   3649  N3   U   A 180      88.415  49.029 -11.019  1.00 78.86      A16S
ATOM   3650  C4   U   A 180      88.875  48.187 -11.999  1.00 78.86      A16S
ATOM   3651  O4   U   A 180      90.086  48.129 -12.229  1.00 78.86      A16S
ATOM   3652  C5   U   A 180      87.857  47.423 -12.649  1.00 78.86      A16S
ATOM   3653  C2* U   A 180      84.162  49.832 -11.526  1.00 53.65      A16S
ATOM   3654  O2* U   A 180      83.199  50.369 -10.641  1.00 53.65      A16S
ATOM   3655  C3* U   A 180      83.550  49.272 -12.801  1.00 53.65      A16S
ATOM   3656  O3* U   A 180      82.498  50.078 -13.291  1.00 53.65      A16S
ATOM   3657  P    G   A 181      82.718  50.918 -14.635  1.00 65.38      A16S
ATOM   3658  O1P G   A 181      81.589  51.878 -14.723  1.00 56.98      A16S
ATOM   3659  O2P G   A 181      82.959  49.952 -15.743  1.00 56.98      A16S
ATOM   3660  O5* G   A 181      84.060  51.728 -14.349  1.00 65.38      A16S
ATOM   3661  C5* G   A 181      84.146  52.633 -13.226  1.00 65.38      A16S
ATOM   3662  C4* G   A 181      85.195  53.694 -13.471  1.00 65.38      A16S
ATOM   3663  O4* G   A 181      86.521  53.184 -13.157  1.00 65.38      A16S
ATOM   3664  C1* G   A 181      87.418  53.465 -14.219  1.00 65.38      A16S
ATOM   3665  N9   G   A 181      88.368  52.353 -14.306  1.00 56.98      A16S
ATOM   3666  C4   G   A 181      89.675  52.320 -13.839  1.00 56.98      A16S
ATOM   3667  N3   G   A 181      90.327  53.313 -13.189  1.00 56.98      A16S
ATOM   3668  C2   G   A 181      91.584  52.979 -12.899  1.00 56.98      A16S
ATOM   3669  N2   G   A 181      92.388  53.842 -12.257  1.00 56.98      A16S
ATOM   3670  N1   G   A 181      92.148  51.778 -13.216  1.00 56.98      A16S
ATOM   3671  C6   G   A 181      91.498  50.742 -13.875  1.00 56.98      A16S
ATOM   3672  O6   G   A 181      92.100  49.688 -14.104  1.00 56.98      A16S
ATOM   3673  C5   G   A 181      90.156  51.081 -14.197  1.00 56.98      A16S
ATOM   3674  N7   G   A 181      89.181  50.343 -14.854  1.00 56.98      A16S
ATOM   3675  C8   G   A 181      88.141  51.131 -14.888  1.00 56.98      A16S
ATOM   3676  C2* G   A 181      86.575  53.693 -15.486  1.00 65.38      A16S
ATOM   3677  O2* G   A 181      87.216  54.608 -16.353  1.00 65.38      A16S
ATOM   3678  C3* G   A 181      85.274  54.223 -14.891  1.00 65.38      A16S
ATOM   3679  O3* G   A 181      84.413  55.264 -15.382  1.00 65.38      A16S
ATOM   3680  P    U   A 182      84.775  56.816 -15.135  1.00 84.80      A16S
ATOM   3681  O1P U   A 182      84.281  57.598 -16.296  1.00 97.63      A16S
ATOM   3682  O2P U   A 182      86.188  56.913 -14.746  1.00 97.63      A16S
ATOM   3683  O5* U   A 182      83.901  57.229 -13.870  1.00 84.80      A16S
ATOM   3684  C5* U   A 182      84.372  56.955 -12.544  1.00 84.80      A16S
ATOM   3685  C4* U   A 182      84.540  58.240 -11.759  1.00 84.80      A16S
ATOM   3686  O4* U   A 182      85.267  57.900 -10.547  1.00 84.80      A16S
ATOM   3687  C1* U   A 182      86.255  58.879 -10.277  1.00 84.80      A16S
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ATOM   3688  N1  U   A 182      87.573  58.237 -10.424  1.00 97.63      A16S
ATOM   3689  C6  U   A 182      87.764  57.180 -11.292  1.00 97.63      A16S
ATOM   3690  C2  U   A 182      88.623  58.728  -9.673  1.00 97.63      A16S
ATOM   3691  O2  U   A 182      88.501  59.659  -8.896  1.00 97.63      A16S
ATOM   3692  N3  U   A 182      89.826  58.090  -9.871  1.00 97.63      A16S
ATOM   3693  C4  U   A 182      90.085  57.037 -10.728  1.00 97.63      A16S
ATOM   3694  O4  U   A 182      91.230  56.585 -10.814  1.00 97.63      A16S
ATOM   3695  C5  U   A 182      88.949  56.584 -11.465  1.00 97.63      A16S
ATOM   3696  C2* U   A 182      86.039  60.037 -11.256  1.00 84.80      A16S
ATOM   3697  O2* U   A 182      85.223  61.035 -10.673  1.00 84.80      A16S
ATOM   3698  C3* U   A 182      85.378  59.326 -12.433  1.00 84.80      A16S
ATOM   3699  O3* U   A 182      84.573  60.223 -13.208  1.00 84.80      A16S
ATOM   3700  P   G   A 183      85.234  61.050 -14.428  1.00 70.45      A16S
ATOM   3701  O1P G   A 183      84.402  62.271 -14.630  1.00 44.19      A16S
ATOM   3702  O2P G   A 183      85.483  60.122 -15.579  1.00 44.19      A16S
ATOM   3703  O5* G   A 183      86.651  61.519 -13.871  1.00 70.45      A16S
ATOM   3704  C5* G   A 183      87.788  61.588 -14.748  1.00 70.45      A16S
ATOM   3705  C4* G   A 183      89.052  61.275 -13.994  1.00 70.45      A16S
ATOM   3706  O4* G   A 183      88.909  60.002 -13.317  1.00 70.45      A16S
ATOM   3707  C1* G   A 183      90.119  59.267 -13.409  1.00 70.45      A16S
ATOM   3708  N9  G   A 183      89.856  58.078 -14.223  1.00 44.19      A16S
ATOM   3709  C4  G   A 183      90.745  57.085 -14.583  1.00 44.19      A16S
ATOM   3710  N3  G   A 183      92.041  57.012 -14.230  1.00 44.19      A16S
ATOM   3711  C2  G   A 183      92.636  55.952 -14.758  1.00 44.19      A16S
ATOM   3712  N2  G   A 183      93.939  55.712 -14.498  1.00 44.19      A16S
ATOM   3713  N1  G   A 183      92.000  55.048 -15.575  1.00 44.19      A16S
ATOM   3714  C6  G   A 183      90.668  55.114 -15.948  1.00 44.19      A16S
ATOM   3715  O6  G   A 183      90.199  54.264 -16.690  1.00 44.19      A16S
ATOM   3716  C5  G   A 183      90.025  56.223 -15.385  1.00 44.19      A16S
ATOM   3717  N7  G   A 183      88.715  56.646 -15.511  1.00 44.19      A16S
ATOM   3718  C8  G   A 183      88.659  57.743 -14.806  1.00 44.19      A16S
ATOM   3719  C2* G   A 183      91.155  60.201 -14.037  1.00 70.45      A16S
ATOM   3720  O2* G   A 183      91.795  60.934 -13.012  1.00 70.45      A16S
ATOM   3721  C3* G   A 183      90.276  61.113 -14.875  1.00 70.45      A16S
ATOM   3722  O3* G   A 183      90.892  62.364 -15.139  1.00 70.45      A16S
ATOM   3723  P   G   A 184      91.381  62.718 -16.632  1.00 56.95      A16S
ATOM   3724  O1P G   A 184      91.644  64.176 -16.620  1.00 45.87      A16S
ATOM   3725  O2P G   A 184      90.440  62.157 -17.631  1.00 45.87      A16S
ATOM   3726  O5* G   A 184      92.755  61.926 -16.803  1.00 56.95      A16S
ATOM   3727  C5* G   A 184      93.860  62.155 -15.910  1.00 56.95      A16S
ATOM   3728  C4* G   A 184      94.787  60.965 -15.911  1.00 56.95      A16S
ATOM   3729  O4* G   A 184      94.032  59.797 -15.503  1.00 56.95      A16S
ATOM   3730  C1* G   A 184      94.492  58.652 -16.203  1.00 56.95      A16S
ATOM   3731  N9  G   A 184      93.416  58.168 -17.059  1.00 45.87      A16S
ATOM   3732  C4  G   A 184      93.403  56.981 -17.737  1.00 45.87      A16S
ATOM   3733  N3  G   A 184      94.367  56.043 -17.702  1.00 45.87      A16S
ATOM   3734  C2  G   A 184      94.075  55.013 -18.472  1.00 45.87      A16S
ATOM   3735  N2  G   A 184      94.917  53.976 -18.543  1.00 45.87      A16S
ATOM   3736  N1  G   A 184      92.934  54.922 -19.224  1.00 45.87      A16S
ATOM   3737  C6  G   A 184      91.931  55.882 -19.266  1.00 45.87      A16S
ATOM   3738  O6  G   A 184      90.939  55.703 -19.964  1.00 45.87      A16S
ATOM   3739  C5  G   A 184      92.226  56.977 -18.446  1.00 45.87      A16S
ATOM   3740  N7  G   A 184      91.501  58.132 -18.206  1.00 45.87      A16S
ATOM   3741  C8  G   A 184      92.242  58.808 -17.373  1.00 45.87      A16S
ATOM   3742  C2* G   A 184      95.672  59.087 -17.063  1.00 56.95      A16S
ATOM   3743  O2* G   A 184      96.879  58.841 -16.371  1.00 56.95      A16S
ATOM   3744  C3* G   A 184      95.367  60.563 -17.256  1.00 56.95      A16S
ATOM   3745  O3* G   A 184      96.520  61.288 -17.620  1.00 56.95      A16S
ATOM   3746  P   A   A 185      96.813  61.552 -19.179  1.00 52.27      A16S
ATOM   3747  O1P A   A 185      97.836  62.630 -19.230  1.00 48.82      A16S
ATOM   3748  O2P A   A 185      95.510  61.745 -19.872  1.00 48.82      A16S
ATOM   3749  O5* A   A 185      97.435  60.185 -19.713  1.00 52.27      A16S
ATOM   3750  C5* A   A 185      98.703  59.731 -19.239  1.00 52.27      A16S
ATOM   3751  C4* A   A 185      99.062  58.430 -19.890  1.00 52.27      A16S
ATOM   3752  O4* A   A 185      98.098  57.430 -19.501  1.00 52.27      A16S
ATOM   3753  C1* A   A 185      97.842  56.565 -20.590  1.00 52.27      A16S
ATOM   3754  N9  A   A 185      96.418  56.653 -20.908  1.00 48.82      A16S
ATOM   3755  C4  A   A 185      95.754  55.888 -21.828  1.00 48.82      A16S
ATOM   3756  N3  A   A 185      96.276  54.947 -22.623  1.00 48.82      A16S
ATOM   3757  C2  A   A 185      95.335  54.404 -23.379  1.00 48.82      A16S
ATOM   3758  N1  A   A 185      94.034  54.671 -23.425  1.00 48.82      A16S
ATOM   3759  C6  A   A 185      93.544  55.623 -22.611  1.00 48.82      A16S
ATOM   3760  N6  A   A 185      92.241  55.885 -22.652  1.00 48.82      A16S
ATOM   3761  C5  A   A 185      94.439  56.280 -21.766  1.00 48.82      A16S
ATOM   3762  N7  A   A 185      94.272  57.294 -20.838  1.00 48.82      A16S
ATOM   3763  C8  A   A 185      95.474  57.481 -20.361  1.00 48.82      A16S
ATOM   3764  C2* A   A 185      98.739  56.994 -21.752  1.00 52.27      A16S
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ATOM   3765  O2*  A   A 185      99.916  56.213 -21.784  1.00 52.27      A16S
ATOM   3766  C3*  A   A 185      99.011  58.447 -21.403  1.00 52.27      A16S
ATOM   3767  O3*  A   A 185     100.232  58.904 -21.950  1.00 52.27      A16S
ATOM   3768  P    C   A 186     100.219  59.750 -23.311  1.00 37.38      A16S
ATOM   3769  O1P  C   A 186     101.599  60.281 -23.466  1.00 35.15      A16S
ATOM   3770  O2P  C   A 186      99.067  60.692 -23.268  1.00 35.15      A16S
ATOM   3771  O5*  C   A 186      99.942  58.646 -24.417  1.00 37.38      A16S
ATOM   3772  C5*  C   A 186     100.909  57.631 -24.643  1.00 37.38      A16S
ATOM   3773  C4*  C   A 186     100.457  56.713 -25.738  1.00 37.38      A16S
ATOM   3774  O4*  C   A 186      99.406  55.854 -25.250  1.00 37.38      A16S
ATOM   3775  C1*  C   A 186      98.495  55.588 -26.294  1.00 37.38      A16S
ATOM   3776  N1   C   A 186      97.212  56.156 -25.898  1.00 35.15      A16S
ATOM   3777  C6   C   A 186      97.156  57.231 -25.058  1.00 35.15      A16S
ATOM   3778  C2   C   A 186      96.044  55.584 -26.397  1.00 35.15      A16S
ATOM   3779  O2   C   A 186      96.129  54.595 -27.147  1.00 35.15      A16S
ATOM   3780  N3   C   A 186      94.855  56.114 -26.048  1.00 35.15      A16S
ATOM   3781  C4   C   A 186      94.812  57.167 -25.230  1.00 35.15      A16S
ATOM   3782  N4   C   A 186      93.616  57.661 -24.914  1.00 35.15      A16S
ATOM   3783  C5   C   A 186      95.992  57.761 -24.700  1.00 35.15      A16S
ATOM   3784  C2*  C   A 186      99.029  56.255 -27.557  1.00 37.38      A16S
ATOM   3785  O2*  C   A 186      99.834  55.348 -28.282  1.00 37.38      A16S
ATOM   3786  C3*  C   A 186      99.864  57.373 -26.964  1.00 37.38      A16S
ATOM   3787  O3*  C   A 186     100.850  57.819 -27.859  1.00 37.38      A16S
ATOM   3788  P    C   A 187     100.517  59.038 -28.833  1.00 40.58      A16S
ATOM   3789  O1P  C   A 187     101.834  59.480 -29.335  1.00 43.52      A16S
ATOM   3790  O2P  C   A 187      99.639  59.997 -28.126  1.00 43.52      A16S
ATOM   3791  O5*  C   A 187      99.695  58.345 -30.003  1.00 40.58      A16S
ATOM   3792  C5*  C   A 187     100.228  57.170 -30.630  1.00 40.58      A16S
ATOM   3793  C4*  C   A 187      99.202  56.513 -31.521  1.00 40.58      A16S
ATOM   3794  O4*  C   A 187      98.212  55.788 -30.749  1.00 40.58      A16S
ATOM   3795  C1*  C   A 187      96.984  55.789 -31.448  1.00 40.58      A16S
ATOM   3796  N1   C   A 187      95.971  56.450 -30.613  1.00 43.52      A16S
ATOM   3797  C6   C   A 187      96.336  57.301 -29.610  1.00 43.52      A16S
ATOM   3798  C2   C   A 187      94.615  56.200 -30.863  1.00 43.52      A16S
ATOM   3799  O2   C   A 187      94.305  55.408 -31.764  1.00 43.52      A16S
ATOM   3800  N3   C   A 187      93.678  56.820 -30.115  1.00 43.52      A16S
ATOM   3801  C4   C   A 187      94.046  57.649 -29.142  1.00 43.52      A16S
ATOM   3802  N4   C   A 187      93.092  58.233 -28.430  1.00 43.52      A16S
ATOM   3803  C5   C   A 187      95.414  57.915 -28.855  1.00 43.52      A16S
ATOM   3804  C2*  C   A 187      97.210  56.521 -32.769  1.00 40.58      A16S
ATOM   3805  O2*  C   A 187      97.583  55.569 -33.744  1.00 40.58      A16S
ATOM   3806  C3*  C   A 187      98.391  57.414 -32.430  1.00 40.58      A16S
ATOM   3807  O3*  C   A 187      99.115  57.789 -33.592  1.00 40.58      A16S
ATOM   3808  P    C   A 188      98.910  59.259 -34.204  1.00 54.12      A16S
ATOM   3809  O1P  C   A 188      99.798  59.351 -35.385  1.00 48.77      A16S
ATOM   3810  O2P  C   A 188      99.032  60.266 -33.113  1.00 48.77      A16S
ATOM   3811  O5*  C   A 188      97.394  59.242 -34.696  1.00 54.12      A16S
ATOM   3812  C5*  C   A 188      97.003  58.400 -35.791  1.00 54.12      A16S
ATOM   3813  C4*  C   A 188      95.535  58.547 -36.090  1.00 54.12      A16S
ATOM   3814  O4*  C   A 188      94.763  57.910 -35.050  1.00 54.12      A16S
ATOM   3815  C1*  C   A 188      93.548  58.612 -34.864  1.00 54.12      A16S
ATOM   3816  N1   C   A 188      93.558  59.222 -33.525  1.00 48.77      A16S
ATOM   3817  C6   C   A 188      94.730  59.526 -32.896  1.00 48.77      A16S
ATOM   3818  C2   C   A 188      92.338  59.515 -32.918  1.00 48.77      A16S
ATOM   3819  O2   C   A 188      91.287  59.182 -33.497  1.00 48.77      A16S
ATOM   3820  N3   C   A 188      92.328  60.145 -31.720  1.00 48.77      A16S
ATOM   3821  C4   C   A 188      93.478  60.462 -31.130  1.00 48.77      A16S
ATOM   3822  N4   C   A 188      93.429  61.106 -29.964  1.00 48.77      A16S
ATOM   3823  C5   C   A 188      94.735  60.139 -31.711  1.00 48.77      A16S
ATOM   3824  C2*  C   A 188      93.495  59.713 -35.917  1.00 54.12      A16S
ATOM   3825  O2*  C   A 188      92.843  59.237 -37.080  1.00 54.12      A16S
ATOM   3826  C3*  C   A 188      94.974  59.957 -36.154  1.00 54.12      A16S
ATOM   3827  O3*  C   A 188      95.202  60.610 -37.388  1.00 54.12      A16S
ATOM   3828  P    G   A 189      95.266  62.218 -37.430  1.00 69.63      A16S
ATOM   3829  O1P  G   A 189      95.759  62.572 -38.786  1.00 56.47      A16S
ATOM   3830  O2P  G   A 189      95.991  62.715 -36.232  1.00 56.47      A16S
ATOM   3831  O5*  G   A 189      93.749  62.669 -37.249  1.00 69.63      A16S
ATOM   3832  C5*  G   A 189      92.738  62.237 -38.167  1.00 69.63      A16S
ATOM   3833  C4*  G   A 189      91.393  62.780 -37.757  1.00 69.63      A16S
ATOM   3834  O4*  G   A 189      90.931  62.116 -36.553  1.00 69.63      A16S
ATOM   3835  C1*  G   A 189      90.179  63.022 -35.764  1.00 69.63      A16S
ATOM   3836  N9   G   A 189      90.848  63.182 -34.475  1.00 56.47      A16S
ATOM   3837  C4   G   A 189      90.287  63.640 -33.305  1.00 56.47      A16S
ATOM   3838  N3   G   A 189      89.014  64.039 -33.138  1.00 56.47      A16S
ATOM   3839  C2   G   A 189      88.771  64.413 -31.891  1.00 56.47      A16S
ATOM   3840  N2   G   A 189      87.548  64.824 -31.539  1.00 56.47      A16S
ATOM   3841  N1   G   A 189      89.702  64.410 -30.892  1.00 56.47      A16S
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ATOM   3842  C6  G   A 189      91.020  64.009 -31.034  1.00 56.47      A16S
ATOM   3843  O6  G   A 189      91.784  64.051 -30.053  1.00 56.47      A16S
ATOM   3844  C5  G   A 189      91.297  63.591 -32.372  1.00 56.47      A16S
ATOM   3845  N7  G   A 189      92.470  63.124 -32.942  1.00 56.47      A16S
ATOM   3846  C8  G   A 189      92.157  62.899 -34.188  1.00 56.47      A16S
ATOM   3847  C2* G   A 189      90.097  64.332 -36.542  1.00 69.63      A16S
ATOM   3848  O2* G   A 189      88.929  64.322 -37.343  1.00 69.63      A16S
ATOM   3849  C3* G   A 189      91.348  64.253 -37.402  1.00 69.63      A16S
ATOM   3850  O3* G   A 189      91.273  65.102 -38.535  1.00 69.63      A16S
ATOM   3851  P   C   A 190      91.769  66.627 -38.408  1.00 57.56      A16S
ATOM   3852  O1P C   A 190      91.621  67.216 -39.767  1.00 59.13      A16S
ATOM   3853  O2P C   A 190      93.081  66.687 -37.714  1.00 59.13      A16S
ATOM   3854  O5* C   A 190      90.716  67.291 -37.418  1.00 57.56      A16S
ATOM   3855  C5* C   A 190      89.328  67.356 -37.773  1.00 57.56      A16S
ATOM   3856  C4* C   A 190      88.539  67.986 -36.662  1.00 57.56      A16S
ATOM   3857  O4* C   A 190      88.448  67.075 -35.541  1.00 57.56      A16S
ATOM   3858  C1* C   A 190      88.500  67.805 -34.330  1.00 57.56      A16S
ATOM   3859  N1  C   A 190      89.710  67.403 -33.597  1.00 59.13      A16S
ATOM   3860  C6  C   A 190      90.771  66.842 -34.249  1.00 59.13      A16S
ATOM   3861  C2  C   A 190      89.772  67.632 -32.219  1.00 59.13      A16S
ATOM   3862  O2  C   A 190      88.788  68.123 -31.648  1.00 59.13      A16S
ATOM   3863  N3  C   A 190      90.901  67.319 -31.547  1.00 59.13      A16S
ATOM   3864  C4  C   A 190      91.940  66.802 -32.201  1.00 59.13      A16S
ATOM   3865  N4  C   A 190      93.047  66.539 -31.509  1.00 59.13      A16S
ATOM   3866  C5  C   A 190      91.894  66.535 -33.597  1.00 59.13      A16S
ATOM   3867  C2* C   A 190      88.565  69.290 -34.692  1.00 57.56      A16S
ATOM   3868  O2* C   A 190      87.277  69.877 -34.695  1.00 57.56      A16S
ATOM   3869  C3* C   A 190      89.168  69.231 -36.080  1.00 57.56      A16S
ATOM   3870  O3* C   A 190      88.895  70.387 -36.829  1.00 57.56      A16S
ATOM   3871  P   C   A 190A     89.943  71.592 -36.795  1.00 51.10      A16S
ATOM   3872  O1P C   A 190A     89.625  72.470 -37.946  1.00 68.16      A16S
ATOM   3873  O2P C   A 190A     91.305  71.020 -36.666  1.00 68.16      A16S
ATOM   3874  O5* C   A 190A     89.586  72.360 -35.452  1.00 51.10      A16S
ATOM   3875  C5* C   A 190A     88.296  72.943 -35.290  1.00 51.10      A16S
ATOM   3876  C4* C   A 190A     88.082  73.340 -33.861  1.00 51.10      A16S
ATOM   3877  O4* C   A 190A     88.199  72.159 -33.032  1.00 51.10      A16S
ATOM   3878  C1* C   A 190A     88.794  72.502 -31.791  1.00 51.10      A16S
ATOM   3879  N1  C   A 190A     90.035  71.718 -31.644  1.00 68.16      A16S
ATOM   3880  C6  C   A 190A     90.673  71.209 -32.738  1.00 68.16      A16S
ATOM   3881  C2  C   A 190A     90.565  71.520 -30.363  1.00 68.16      A16S
ATOM   3882  O2  C   A 190A     89.951  71.960 -29.382  1.00 68.16      A16S
ATOM   3883  N3  C   A 190A     91.731  70.852 -30.227  1.00 68.16      A16S
ATOM   3884  C4  C   A 190A     92.357  70.382 -31.307  1.00 68.16      A16S
ATOM   3885  N4  C   A 190A     93.517  69.753 -31.132  1.00 68.16      A16S
ATOM   3886  C5  C   A 190A     91.825  70.542 -32.617  1.00 68.16      A16S
ATOM   3887  C2* C   A 190A     89.042  74.016 -31.798  1.00 51.10      A16S
ATOM   3888  O2* C   A 190A     87.990  74.701 -31.139  1.00 51.10      A16S
ATOM   3889  C3* C   A 190A     89.104  74.306 -33.293  1.00 51.10      A16S
ATOM   3890  O3* C   A 190A     88.800  75.653 -33.615  1.00 51.10      A16S
ATOM   3891  P   C   A 190B     89.998  76.700 -33.856  1.00 62.45      A16S
ATOM   3892  O1P C   A 190B     89.391  77.919 -34.454  1.00 73.12      A16S
ATOM   3893  O2P C   A 190B     91.134  76.027 -34.542  1.00 73.12      A16S
ATOM   3894  O5* C   A 190B     90.467  77.066 -32.386  1.00 62.45      A16S
ATOM   3895  C5* C   A 190B     89.529  77.594 -31.449  1.00 62.45      A16S
ATOM   3896  C4* C   A 190B     90.167  77.708 -30.100  1.00 62.45      A16S
ATOM   3897  O4* C   A 190B     90.406  76.385 -29.566  1.00 62.45      A16S
ATOM   3898  C1* C   A 190B     91.604  76.391 -28.808  1.00 62.45      A16S
ATOM   3899  N1  C   A 190B     92.535  75.397 -29.371  1.00 73.12      A16S
ATOM   3900  C6  C   A 190B     92.417  74.962 -30.662  1.00 73.12      A16S
ATOM   3901  C2  C   A 190B     93.549  74.903 -28.553  1.00 73.12      A16S
ATOM   3902  O2  C   A 190B     93.629  75.314 -27.389  1.00 73.12      A16S
ATOM   3903  N3  C   A 190B     94.411  73.991 -29.046  1.00 73.12      A16S
ATOM   3904  C4  C   A 190B     94.286  73.568 -30.303  1.00 73.12      A16S
ATOM   3905  N4  C   A 190B     95.158  72.662 -30.743  1.00 73.12      A16S
ATOM   3906  C5  C   A 190B     93.262  74.055 -31.162  1.00 73.12      A16S
ATOM   3907  C2* C   A 190B     92.173  77.808 -28.832  1.00 62.45      A16S
ATOM   3908  O2* C   A 190B     91.804  78.484 -27.644  1.00 62.45      A16S
ATOM   3909  C3* C   A 190B     91.529  78.372 -30.095  1.00 62.45      A16S
ATOM   3910  O3* C   A 190B     91.430  79.784 -30.095  1.00 62.45      A16S
ATOM   3911  P   C   A 190C     92.749  80.663 -30.342  1.00 86.01      A16S
ATOM   3912  O1P C   A 190C     92.419  82.108 -30.158  1.00 58.14      A16S
ATOM   3913  O2P C   A 190C     93.403  80.200 -31.609  1.00 58.14      A16S
ATOM   3914  O5* C   A 190C     93.653  80.268 -29.102  1.00 86.01      A16S
ATOM   3915  C5* C   A 190C     95.048  80.470 -29.140  1.00 86.01      A16S
ATOM   3916  C4* C   A 190C     95.720  79.519 -28.200  1.00 86.01      A16S
ATOM   3917  O4* C   A 190C     95.283  78.166 -28.461  1.00 86.01      A16S
ATOM   3918  C1* C   A 190C     96.379  77.285 -28.325  1.00 86.01      A16S
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ATOM	3919	N1	C	A	190C	96.561	76.569	-29.603	1.00	58.14	A16S
ATOM	3920	C6	C	A	190C	95.872	76.945	-30.720	1.00	58.14	A16S
ATOM	3921	C2	C	A	190C	97.439	75.472	-29.652	1.00	58.14	A16S
ATOM	3922	O2	C	A	190C	98.104	75.182	-28.645	1.00	58.14	A16S
ATOM	3923	N3	C	A	190C	97.551	74.767	-30.795	1.00	58.14	A16S
ATOM	3924	C4	C	A	190C	96.854	75.131	-31.870	1.00	58.14	A16S
ATOM	3925	N4	C	A	190C	96.990	74.391	-32.978	1.00	58.14	A16S
ATOM	3926	C5	C	A	190C	95.988	76.264	-31.861	1.00	58.14	A16S
ATOM	3927	C2*	C	A	190C	97.585	78.108	-27.864	1.00	86.01	A16S
ATOM	3928	O2*	C	A	190C	97.631	78.105	-26.453	1.00	86.01	A16S
ATOM	3929	C3*	C	A	190C	97.219	79.488	-28.376	1.00	86.01	A16S
ATOM	3930	O3*	C	A	190C	97.782	80.542	-27.630	1.00	86.01	A16S
ATOM	3931	P	U	A	190D	98.770	81.575	-28.350	1.00	58.20	A16S
ATOM	3932	O1P	U	A	190D	98.559	82.886	-27.689	1.00	83.76	A16S
ATOM	3933	O2P	U	A	190D	98.652	81.470	-29.838	1.00	83.76	A16S
ATOM	3934	O5*	U	A	190D	100.189	81.033	-27.896	1.00	58.20	A16S
ATOM	3935	C5*	U	A	190D	101.188	80.674	-28.855	1.00	58.20	A16S
ATOM	3936	C4*	U	A	190D	101.497	79.201	-28.758	1.00	58.20	A16S
ATOM	3937	O4*	U	A	190D	100.470	78.454	-29.464	1.00	58.20	A16S
ATOM	3938	C1*	U	A	190D	101.056	77.717	-30.516	1.00	58.20	A16S
ATOM	3939	N1	U	A	190D	100.126	77.681	-31.654	1.00	83.76	A16S
ATOM	3940	C6	U	A	190D	99.324	78.750	-31.974	1.00	83.76	A16S
ATOM	3941	C2	U	A	190D	100.076	76.512	-32.393	1.00	83.76	A16S
ATOM	3942	O2	U	A	190D	100.773	75.539	-32.150	1.00	83.76	A16S
ATOM	3943	N3	U	A	190D	99.178	76.516	-33.428	1.00	83.76	A16S
ATOM	3944	C4	U	A	190D	98.339	77.538	-33.792	1.00	83.76	A16S
ATOM	3945	O4	U	A	190D	97.540	77.361	-34.716	1.00	83.76	A16S
ATOM	3946	C5	U	A	190D	98.454	78.720	-32.988	1.00	83.76	A16S
ATOM	3947	C2*	U	A	190D	102.399	78.376	-30.805	1.00	58.20	A16S
ATOM	3948	O2*	U	A	190D	103.297	77.482	-31.426	1.00	58.20	A16S
ATOM	3949	C3*	U	A	190D	102.818	78.825	-29.407	1.00	58.20	A16S
ATOM	3950	O3*	U	A	190D	103.386	77.773	-28.633	1.00	58.20	A16S
ATOM	3951	P	U	A	190E	104.975	77.704	-28.414	1.00	46.75	A16S
ATOM	3952	O1P	U	A	190E	105.229	77.283	-27.017	1.00	59.96	A16S
ATOM	3953	O2P	U	A	190E	105.624	78.928	-28.941	1.00	59.96	A16S
ATOM	3954	O5*	U	A	190E	105.410	76.523	-29.370	1.00	46.75	A16S
ATOM	3955	C5*	U	A	190E	105.001	75.201	-29.097	1.00	46.75	A16S
ATOM	3956	C4*	U	A	190E	105.422	74.304	-30.214	1.00	46.75	A16S
ATOM	3957	O4*	U	A	190E	106.715	74.745	-30.695	1.00	46.75	A16S
ATOM	3958	C1*	U	A	190E	107.658	73.712	-30.540	1.00	46.75	A16S
ATOM	3959	N1	U	A	190E	108.939	74.317	-30.147	1.00	59.96	A16S
ATOM	3960	C6	U	A	190E	108.996	75.362	-29.258	1.00	59.96	A16S
ATOM	3961	C2	U	A	190E	110.090	73.805	-30.711	1.00	59.96	A16S
ATOM	3962	O2	U	A	190E	110.086	72.875	-31.503	1.00	59.96	A16S
ATOM	3963	N3	U	A	190E	111.249	74.422	-30.322	1.00	59.96	A16S
ATOM	3964	C4	U	A	190E	111.371	75.479	-29.450	1.00	59.96	A16S
ATOM	3965	O4	U	A	190E	112.483	75.961	-29.239	1.00	59.96	A16S
ATOM	3966	C5	U	A	190E	110.139	75.946	-28.902	1.00	59.96	A16S
ATOM	3967	C2*	U	A	190E	107.071	72.740	-29.515	1.00	46.75	A16S
ATOM	3968	O2*	U	A	190E	107.561	71.425	-29.686	1.00	46.75	A16S
ATOM	3969	C3*	U	A	190E	105.574	72.855	-29.787	1.00	46.75	A16S
ATOM	3970	O3*	U	A	190E	105.186	71.986	-30.847	1.00	46.75	A16S
ATOM	3971	P	G	A	190F	104.111	70.822	-30.575	1.00	42.75	A16S
ATOM	3972	O1P	G	A	190F	104.638	69.605	-31.255	1.00	50.83	A16S
ATOM	3973	O2P	G	A	190F	102.759	71.338	-30.942	1.00	50.83	A16S
ATOM	3974	O5*	G	A	190F	104.163	70.607	-28.994	1.00	42.75	A16S
ATOM	3975	C5*	G	A	190F	103.045	70.033	-28.306	1.00	42.75	A16S
ATOM	3976	C4*	G	A	190F	103.507	69.062	-27.243	1.00	42.75	A16S
ATOM	3977	O4*	G	A	190F	104.403	68.080	-27.832	1.00	42.75	A16S
ATOM	3978	C1*	G	A	190F	105.580	68.016	-27.064	1.00	42.75	A16S
ATOM	3979	N9	G	A	190F	106.697	67.633	-27.919	1.00	50.83	A16S
ATOM	3980	C4	G	A	190F	107.776	66.888	-27.527	1.00	50.83	A16S
ATOM	3981	N3	G	A	190F	108.007	66.434	-26.282	1.00	50.83	A16S
ATOM	3982	C2	G	A	190F	109.104	65.701	-26.220	1.00	50.83	A16S
ATOM	3983	N2	G	A	190F	109.478	65.155	-25.052	1.00	50.83	A16S
ATOM	3984	N1	G	A	190F	109.917	65.441	-27.296	1.00	50.83	A16S
ATOM	3985	C6	G	A	190F	109.698	65.893	-28.589	1.00	50.83	A16S
ATOM	3986	O6	G	A	190F	110.485	65.575	-29.490	1.00	50.83	A16S
ATOM	3987	C5	G	A	190F	108.520	66.689	-28.669	1.00	50.83	A16S
ATOM	3988	N7	G	A	190F	107.940	67.334	-29.752	1.00	50.83	A16S
ATOM	3989	C8	G	A	190F	106.868	67.889	-29.258	1.00	50.83	A16S
ATOM	3990	C2*	G	A	190F	105.698	69.358	-26.354	1.00	42.75	A16S
ATOM	3991	O2*	G	A	190F	106.484	69.180	-25.201	1.00	42.75	A16S
ATOM	3992	C3*	G	A	190F	104.235	69.663	-26.042	1.00	42.75	A16S
ATOM	3993	O3*	G	A	190F	103.898	68.930	-24.867	1.00	42.75	A16S
ATOM	3994	P	G	A	190G	102.379	68.890	-24.327	1.00	47.88	A16S
ATOM	3995	O1P	G	A	190G	102.451	68.229	-22.986	1.00	60.28	A16S

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ATOM   3996  O2P G   A 190G     101.484  68.308 -25.384  1.00 60.28      A16S
ATOM   3997  O5* G   A 190G     102.012  70.418 -24.057  1.00 47.88      A16S
ATOM   3998  C5* G   A 190G     102.534  71.107 -22.901  1.00 47.88      A16S
ATOM   3999  C4* G   A 190G     101.606  72.223 -22.491  1.00 47.88      A16S
ATOM   4000  O4* G   A 190G     101.530  73.181 -23.569  1.00 47.88      A16S
ATOM   4001  C1* G   A 190G     100.187  73.584 -23.766  1.00 47.88      A16S
ATOM   4002  N9   G   A 190G      99.745  73.032 -25.042  1.00 60.28      A16S
ATOM   4003  C4   G   A 190G      98.560  73.289 -25.680  1.00 60.28      A16S
ATOM   4004  N3   G   A 190G      97.584  74.099 -25.232  1.00 60.28      A16S
ATOM   4005  C2   G   A 190G      96.568  74.152 -26.073  1.00 60.28      A16S
ATOM   4006  N2   G   A 190G      95.516  74.920 -25.783  1.00 60.28      A16S
ATOM   4007  N1   G   A 190G      96.511  73.456 -27.259  1.00 60.28      A16S
ATOM   4008  C6   G   A 190G      97.504  72.611 -27.738  1.00 60.28      A16S
ATOM   4009  O6   G   A 190G      97.355  72.029 -28.816  1.00 60.28      A16S
ATOM   4010  C5   G   A 190G      98.603  72.551 -26.847  1.00 60.28      A16S
ATOM   4011  N7   G   A 190G      99.790  71.841 -26.936  1.00 60.28      A16S
ATOM   4012  C8   G   A 190G     100.433  72.153 -25.845  1.00 60.28      A16S
ATOM   4013  C2* G   A 190G      99.373  73.024 -22.608  1.00 47.88      A16S
ATOM   4014  O2* G   A 190G      99.321  73.949 -21.543  1.00 47.88      A16S
ATOM   4015  C3* G   A 190G     100.175  71.786 -22.263  1.00 47.88      A16S
ATOM   4016  O3* G   A 190G      99.941  71.369 -20.936  1.00 47.88      A16S
ATOM   4017  P    G   A 190H      98.882  70.200 -20.669  1.00 56.47      A16S
ATOM   4018  O1P G   A 190H      98.954  69.893 -19.217  1.00 70.86      A16S
ATOM   4019  O2P G   A 190H      99.153  69.121 -21.664  1.00 70.86      A16S
ATOM   4020  O5* G   A 190H      97.469  70.851 -21.042  1.00 56.47      A16S
ATOM   4021  C5* G   A 190H      96.908  71.944 -20.280  1.00 56.47      A16S
ATOM   4022  C4* G   A 190H      95.565  72.375 -20.858  1.00 56.47      A16S
ATOM   4023  O4* G   A 190H      95.756  73.024 -22.142  1.00 56.47      A16S
ATOM   4024  C1* G   A 190H      94.639  72.773 -22.979  1.00 56.47      A16S
ATOM   4025  N9   G   A 190H      95.085  71.990 -24.126  1.00 70.86      A16S
ATOM   4026  C4   G   A 190H      94.430  71.848 -25.328  1.00 70.86      A16S
ATOM   4027  N3   G   A 190H      93.259  72.419 -25.666  1.00 70.86      A16S
ATOM   4028  C2   G   A 190H      92.889  72.094 -26.894  1.00 70.86      A16S
ATOM   4029  N2   G   A 190H      91.743  72.570 -27.389  1.00 70.86      A16S
ATOM   4030  N1   G   A 190H      93.613  71.279 -27.726  1.00 70.86      A16S
ATOM   4031  C6   G   A 190H      94.824  70.685 -27.400  1.00 70.86      A16S
ATOM   4032  O6   G   A 190H      95.407  69.976 -28.229  1.00 70.86      A16S
ATOM   4033  C5   G   A 190H      95.228  71.016 -26.081  1.00 70.86      A16S
ATOM   4034  N7   G   A 190H      96.357  70.639 -25.368  1.00 70.86      A16S
ATOM   4035  C8   G   A 190H      96.229  71.240 -24.218  1.00 70.86      A16S
ATOM   4036  C2* G   A 190H      93.627  71.978 -22.166  1.00 56.47      A16S
ATOM   4037  O2* G   A 190H      92.712  72.871 -21.569  1.00 56.47      A16S
ATOM   4038  C3* G   A 190H      94.528  71.297 -21.148  1.00 56.47      A16S
ATOM   4039  O3* G   A 190H      93.785  70.871 -20.017  1.00 56.47      A16S
ATOM   4040  P    G   A 190I      93.064  69.435 -20.048  1.00 65.74      A16S
ATOM   4041  O1P G   A 190I      92.441  69.274 -18.710  1.00 80.66      A16S
ATOM   4042  O2P G   A 190I      94.013  68.410 -20.538  1.00 80.66      A16S
ATOM   4043  O5* G   A 190I      91.921  69.609 -21.147  1.00 65.74      A16S
ATOM   4044  C5* G   A 190I      90.865  70.551 -20.922  1.00 65.74      A16S
ATOM   4045  C4* G   A 190I      89.893  70.575 -22.075  1.00 65.74      A16S
ATOM   4046  O4* G   A 190I      90.580  70.980 -23.277  1.00 65.74      A16S
ATOM   4047  C1* G   A 190I      89.909  70.448 -24.399  1.00 65.74      A16S
ATOM   4048  N9   G   A 190I      90.848  69.665 -25.185  1.00 80.66      A16S
ATOM   4049  C4   G   A 190I      90.665  69.263 -26.481  1.00 80.66      A16S
ATOM   4050  N3   G   A 190I      89.589  69.529 -27.241  1.00 80.66      A16S
ATOM   4051  C2   G   A 190I      89.698  69.010 -28.443  1.00 80.66      A16S
ATOM   4052  N2   G   A 190I      88.717  69.183 -29.328  1.00 80.66      A16S
ATOM   4053  N1   G   A 190I      90.775  68.284 -28.866  1.00 80.66      A16S
ATOM   4054  C6   G   A 190I      91.893  67.996 -28.097  1.00 80.66      A16S
ATOM   4055  O6   G   A 190I      92.816  67.323 -28.574  1.00 80.66      A16S
ATOM   4056  C5   G   A 190I      91.790  68.551 -26.806  1.00 80.66      A16S
ATOM   4057  N7   G   A 190I      92.669  68.504 -25.735  1.00 80.66      A16S
ATOM   4058  C8   G   A 190I      92.069  69.179 -24.795  1.00 80.66      A16S
ATOM   4059  C2* G   A 190I      88.751  69.588 -23.898  1.00 65.74      A16S
ATOM   4060  O2* G   A 190I      87.559  70.343 -23.979  1.00 65.74      A16S
ATOM   4061  C3* G   A 190I      89.180  69.288 -22.466  1.00 65.74      A16S
ATOM   4062  O3* G   A 190I      88.045  68.999 -21.640  1.00 65.74      A16S
ATOM   4063  P    U   A 190J      87.546  67.472 -21.470  1.00 55.42      A16S
ATOM   4064  O1P U   A 190J      86.335  67.523 -20.604  1.00101.23      A16S
ATOM   4065  O2P U   A 190J      88.702  66.621 -21.067  1.00101.23      A16S
ATOM   4066  O5* U   A 190J      87.107  67.045 -22.942  1.00 55.42      A16S
ATOM   4067  C5* U   A 190J      86.034  67.733 -23.591  1.00 55.42      A16S
ATOM   4068  C4* U   A 190J      85.849  67.231 -24.993  1.00 55.42      A16S
ATOM   4069  O4* U   A 190J      87.015  67.538 -25.793  1.00 55.42      A16S
ATOM   4070  C1* U   A 190J      87.162  66.562 -26.809  1.00 55.42      A16S
ATOM   4071  N1   U   A 190J      88.518  65.998 -26.736  1.00101.23      A16S
ATOM   4072  C6   U   A 190J      89.278  66.087 -25.591  1.00101.23      A16S
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ATOM   4073  C2  U   A 190J      89.005  65.357 -27.864  1.00101.23      A16S
ATOM   4074  O2  U   A 190J      88.374  65.272 -28.902  1.00101.23      A16S
ATOM   4075  N3  U   A 190J      90.259  64.819 -27.729  1.00101.23      A16S
ATOM   4076  C4  U   A 190J      91.064  64.860 -26.609  1.00101.23      A16S
ATOM   4077  O4  U   A 190J      92.162  64.300 -26.632  1.00101.23      A16S
ATOM   4078  C5  U   A 190J      90.499  65.556 -25.492  1.00101.23      A16S
ATOM   4079  C2* U   A 190J      86.066  65.510 -26.614  1.00 55.42      A16S
ATOM   4080  O2* U   A 190J      85.011  65.731 -27.529  1.00 55.42      A16S
ATOM   4081  C3* U   A 190J      85.670  65.738 -25.158  1.00 55.42      A16S
ATOM   4082  O3* U   A 190J      84.341  65.335 -24.883  1.00 55.42      A16S
ATOM   4083  P   G   A 190K      84.052  63.810 -24.474  1.00 72.38      A16S
ATOM   4084  O1P G   A 190K      82.670  63.779 -23.936  1.00 62.23      A16S
ATOM   4085  O2P G   A 190K      85.170  63.280 -23.646  1.00 62.23      A16S
ATOM   4086  O5* G   A 190K      84.079  63.060 -25.875  1.00 72.38      A16S
ATOM   4087  C5* G   A 190K      83.043  63.289 -26.831  1.00 72.38      A16S
ATOM   4088  C4* G   A 190K      83.263  62.436 -28.045  1.00 72.38      A16S
ATOM   4089  O4* G   A 190K      84.378  62.962 -28.801  1.00 72.38      A16S
ATOM   4090  C1* G   A 190K      85.095  61.894 -29.397  1.00 72.38      A16S
ATOM   4091  N9  G   A 190K      86.460  61.907 -28.880  1.00 62.23      A16S
ATOM   4092  C4  G   A 190K      87.597  61.569 -29.574  1.00 62.23      A16S
ATOM   4093  N3  G   A 190K      87.651  61.176 -30.861  1.00 62.23      A16S
ATOM   4094  C2  G   A 190K      88.884  60.911 -31.240  1.00 62.23      A16S
ATOM   4095  N2  G   A 190K      89.115  60.501 -32.483  1.00 62.23      A16S
ATOM   4096  N1  G   A 190K      89.978  61.026 -30.426  1.00 62.23      A16S
ATOM   4097  C6  G   A 190K      89.942  61.424 -29.095  1.00 62.23      A16S
ATOM   4098  O6  G   A 190K      90.981  61.482 -28.439  1.00 62.23      A16S
ATOM   4099  C5  G   A 190K      88.630  61.712 -28.675  1.00 62.23      A16S
ATOM   4100  N7  G   A 190K      88.157  62.137 -27.441  1.00 62.23      A16S
ATOM   4101  C8  G   A 190K      86.866  62.242 -27.608  1.00 62.23      A16S
ATOM   4102  C2* G   A 190K      84.376  60.595 -29.038  1.00 72.38      A16S
ATOM   4103  O2* G   A 190K      83.502  60.227 -30.083  1.00 72.38      A16S
ATOM   4104  C3* G   A 190K      83.643  60.994 -27.767  1.00 72.38      A16S
ATOM   4105  O3* G   A 190K      82.529  60.160 -27.504  1.00 72.38      A16S
ATOM   4106  P   U   A 190L      82.747  58.795 -26.681  1.00 60.97      A16S
ATOM   4107  O1P U   A 190L      81.387  58.305 -26.346  1.00 77.33      A16S
ATOM   4108  O2P U   A 190L      83.728  59.038 -25.582  1.00 77.33      A16S
ATOM   4109  O5* U   A 190L      83.376  57.791 -27.754  1.00 60.97      A16S
ATOM   4110  C5* U   A 190L      82.563  57.282 -28.821  1.00 60.97      A16S
ATOM   4111  C4* U   A 190L      83.381  56.488 -29.813  1.00 60.97      A16S
ATOM   4112  O4* U   A 190L      84.308  57.349 -30.512  1.00 60.97      A16S
ATOM   4113  C1* U   A 190L      85.424  56.591 -30.943  1.00 60.97      A16S
ATOM   4114  N1  U   A 190L      86.645  57.153 -30.350  1.00 77.33      A16S
ATOM   4115  C6  U   A 190L      86.597  57.900 -29.198  1.00 77.33      A16S
ATOM   4116  C2  U   A 190L      87.854  56.886 -30.981  1.00 77.33      A16S
ATOM   4117  O2  U   A 190L      87.943  56.235 -32.014  1.00 77.33      A16S
ATOM   4118  N3  U   A 190L      88.956  57.407 -30.352  1.00 77.33      A16S
ATOM   4119  C4  U   A 190L      88.973  58.149 -29.184  1.00 77.33      A16S
ATOM   4120  O4  U   A 190L      90.052  58.505 -28.705  1.00 77.33      A16S
ATOM   4121  C5  U   A 190L      87.687  58.390 -28.611  1.00 77.33      A16S
ATOM   4122  C2* U   A 190L      85.214  55.155 -30.474  1.00 60.97      A16S
ATOM   4123  O2* U   A 190L      84.669  54.415 -31.543  1.00 60.97      A16S
ATOM   4124  C3* U   A 190L      84.243  55.343 -29.314  1.00 60.97      A16S
ATOM   4125  O3* U   A 190L      83.498  54.154 -29.081  1.00 60.97      A16S
ATOM   4126  P   G   A 191       84.066  53.043 -28.061  1.00 69.33      A16S
ATOM   4127  O1P G   A 191       83.171  51.870 -28.214  1.00 61.65      A16S
ATOM   4128  O2P G   A 191       84.270  53.640 -26.709  1.00 61.65      A16S
ATOM   4129  O5* G   A 191       85.490  52.664 -28.663  1.00 69.33      A16S
ATOM   4130  C5* G   A 191       85.588  51.950 -29.904  1.00 69.33      A16S
ATOM   4131  C4* G   A 191       87.009  51.503 -30.147  1.00 69.33      A16S
ATOM   4132  O4* G   A 191       87.839  52.631 -30.523  1.00 69.33      A16S
ATOM   4133  C1* G   A 191       89.157  52.436 -30.038  1.00 69.33      A16S
ATOM   4134  N9  G   A 191       89.465  53.505 -29.090  1.00 61.65      A16S
ATOM   4135  C4  G   A 191       90.709  53.824 -28.591  1.00 61.65      A16S
ATOM   4136  N3  G   A 191       91.869  53.213 -28.901  1.00 61.65      A16S
ATOM   4137  C2  G   A 191       92.890  53.736 -28.248  1.00 61.65      A16S
ATOM   4138  N2  G   A 191       94.115  53.237 -28.431  1.00 61.65      A16S
ATOM   4139  N1  G   A 191       92.788  54.782 -27.367  1.00 61.65      A16S
ATOM   4140  C6  G   A 191       91.608  55.431 -27.036  1.00 61.65      A16S
ATOM   4141  O6  G   A 191       91.625  56.370 -26.232  1.00 61.65      A16S
ATOM   4142  C5  G   A 191       90.497  54.875 -27.723  1.00 61.65      A16S
ATOM   4143  N7  G   A 191       89.150  55.215 -27.680  1.00 61.65      A16S
ATOM   4144  C8  G   A 191       88.579  54.380 -28.506  1.00 61.65      A16S
ATOM   4145  C2* G   A 191       89.194  51.065 -29.365  1.00 69.33      A16S
ATOM   4146  O2* G   A 191       89.592  50.096 -30.310  1.00 69.33      A16S
ATOM   4147  C3* G   A 191       87.738  50.883 -28.968  1.00 69.33      A16S
ATOM   4148  O3* G   A 191       87.405  49.518 -28.771  1.00 69.33      A16S
ATOM   4149  P   U   A 192       87.429  48.902 -27.282  1.00 63.17      A16S
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ATOM   4150  O1P U   A 192      86.856  47.532 -27.416  1.00 39.76      A16S
ATOM   4151  O2P U   A 192      86.798  49.872 -26.342  1.00 39.76      A16S
ATOM   4152  O5* U   A 192      88.987  48.802 -26.933  1.00 63.17      A16S
ATOM   4153  C5* U   A 192      89.883  48.012 -27.759  1.00 63.17      A16S
ATOM   4154  C4* U   A 192      91.320  48.188 -27.317  1.00 63.17      A16S
ATOM   4155  O4* U   A 192      91.746  49.547 -27.586  1.00 63.17      A16S
ATOM   4156  C1* U   A 192      92.636  49.979 -26.573  1.00 63.17      A16S
ATOM   4157  N1  U   A 192      92.028  51.113 -25.867  1.00 39.76      A16S
ATOM   4158  C6  U   A 192      90.693  51.381 -25.964  1.00 39.76      A16S
ATOM   4159  C2  U   A 192      92.857  51.902 -25.099  1.00 39.76      A16S
ATOM   4160  O2  U   A 192      94.049  51.673 -24.950  1.00 39.76      A16S
ATOM   4161  N3  U   A 192      92.240  52.959 -24.495  1.00 39.76      A16S
ATOM   4162  C4  U   A 192      90.916  53.283 -24.562  1.00 39.76      A16S
ATOM   4163  O4  U   A 192      90.511  54.280 -23.968  1.00 39.76      A16S
ATOM   4164  C5  U   A 192      90.125  52.405 -25.353  1.00 39.76      A16S
ATOM   4165  C2* U   A 192      92.858  48.815 -25.619  1.00 63.17      A16S
ATOM   4166  O2* U   A 192      94.031  48.117 -25.972  1.00 63.17      A16S
ATOM   4167  C3* U   A 192      91.591  48.008 -25.835  1.00 63.17      A16S
ATOM   4168  O3* U   A 192      91.765  46.668 -25.433  1.00 63.17      A16S
ATOM   4169  P   C   A 193      91.529  46.285 -23.891  1.00 64.84      A16S
ATOM   4170  O1P C   A 193      91.783  44.829 -23.782  1.00 41.86      A16S
ATOM   4171  O2P C   A 193      90.227  46.852 -23.435  1.00 41.86      A16S
ATOM   4172  O5* C   A 193      92.687  47.049 -23.115  1.00 64.84      A16S
ATOM   4173  C5* C   A 193      94.057  46.783 -23.427  1.00 64.84      A16S
ATOM   4174  C4* C   A 193      94.963  47.701 -22.655  1.00 64.84      A16S
ATOM   4175  O4* C   A 193      94.784  49.072 -23.086  1.00 64.84      A16S
ATOM   4176  C1* C   A 193      95.012  49.936 -21.992  1.00 64.84      A16S
ATOM   4177  N1  C   A 193      93.808  50.736 -21.741  1.00 41.86      A16S
ATOM   4178  C6  C   A 193      92.598  50.393 -22.267  1.00 41.86      A16S
ATOM   4179  C2  C   A 193      93.932  51.874 -20.951  1.00 41.86      A16S
ATOM   4180  O2  C   A 193      95.031  52.127 -20.438  1.00 41.86      A16S
ATOM   4181  N3  C   A 193      92.861  52.662 -20.750  1.00 41.86      A16S
ATOM   4182  C4  C   A 193      91.695  52.333 -21.284  1.00 41.86      A16S
ATOM   4183  N4  C   A 193      90.676  53.148 -21.075  1.00 41.86      A16S
ATOM   4184  C5  C   A 193      91.525  51.155 -22.062  1.00 41.86      A16S
ATOM   4185  C2* C   A 193      95.370  49.080 -20.786  1.00 64.84      A16S
ATOM   4186  O2* C   A 193      96.773  48.975 -20.733  1.00 64.84      A16S
ATOM   4187  C3* C   A 193      94.731  47.756 -21.158  1.00 64.84      A16S
ATOM   4188  O3* C   A 193      95.348  46.681 -20.491  1.00 64.84      A16S
ATOM   4189  P   C   A 194      94.806  46.237 -19.051  1.00 54.03      A16S
ATOM   4190  O1P C   A 194      95.586  45.026 -18.730  1.00 41.34      A16S
ATOM   4191  O2P C   A 194      93.325  46.178 -19.040  1.00 41.34      A16S
ATOM   4192  O5* C   A 194      95.240  47.418 -18.077  1.00 54.03      A16S
ATOM   4193  C5* C   A 194      96.570  47.476 -17.561  1.00 54.03      A16S
ATOM   4194  C4* C   A 194      96.680  48.580 -16.554  1.00 54.03      A16S
ATOM   4195  O4* C   A 194      96.343  49.833 -17.194  1.00 54.03      A16S
ATOM   4196  C1* C   A 194      95.671  50.676 -16.277  1.00 54.03      A16S
ATOM   4197  N1  C   A 194      94.353  51.018 -16.835  1.00 41.34      A16S
ATOM   4198  C6  C   A 194      93.803  50.270 -17.833  1.00 41.34      A16S
ATOM   4199  C2  C   A 194      93.671  52.121 -16.326  1.00 41.34      A16S
ATOM   4200  O2  C   A 194      94.184  52.769 -15.417  1.00 41.34      A16S
ATOM   4201  N3  C   A 194      92.468  52.447 -16.830  1.00 41.34      A16S
ATOM   4202  C4  C   A 194      91.935  51.707 -17.797  1.00 41.34      A16S
ATOM   4203  N4  C   A 194      90.731  52.046 -18.257  1.00 41.34      A16S
ATOM   4204  C5  C   A 194      92.607  50.576 -18.337  1.00 41.34      A16S
ATOM   4205  C2* C   A 194      95.595  49.942 -14.939  1.00 54.03      A16S
ATOM   4206  O2* C   A 194      96.651  50.436 -14.136  1.00 54.03      A16S
ATOM   4207  C3* C   A 194      95.734  48.480 -15.374  1.00 54.03      A16S
ATOM   4208  O3* C   A 194      96.298  47.631 -14.376  1.00 54.03      A16S
ATOM   4209  P   A   A 195      95.401  46.488 -13.684  1.00 43.51      A16S
ATOM   4210  O1P A   A 195      96.291  45.326 -13.465  1.00 49.46      A16S
ATOM   4211  O2P A   A 195      94.135  46.317 -14.443  1.00 49.46      A16S
ATOM   4212  O5* A   A 195      95.059  47.082 -12.246  1.00 43.51      A16S
ATOM   4213  C5* A   A 195      94.344  48.325 -12.113  1.00 43.51      A16S
ATOM   4214  C4* A   A 195      94.916  49.155 -10.981  1.00 43.51      A16S
ATOM   4215  O4* A   A 195      94.288  50.459 -11.005  1.00 43.51      A16S
ATOM   4216  C1* A   A 195      93.968  50.863  -9.693  1.00 43.51      A16S
ATOM   4217  N9  A   A 195      92.514  51.010  -9.643  1.00 49.46      A16S
ATOM   4218  C4  A   A 195      91.805  52.015  -9.040  1.00 49.46      A16S
ATOM   4219  N3  A   A 195      92.296  53.045  -8.336  1.00 49.46      A16S
ATOM   4220  C2  A   A 195      91.313  53.833  -7.912  1.00 49.46      A16S
ATOM   4221  N1  A   A 195      89.994  53.713  -8.094  1.00 49.46      A16S
ATOM   4222  C6  A   A 195      89.533  52.656  -8.806  1.00 49.46      A16S
ATOM   4223  N6  A   A 195      88.208  52.524  -8.981  1.00 49.46      A16S
ATOM   4224  C5  A   A 195      90.479  51.755  -9.315  1.00 49.46      A16S
ATOM   4225  N7  A   A 195      90.350  50.601 -10.068  1.00 49.46      A16S
ATOM   4226  C8  A   A 195      91.580  50.192 -10.225  1.00 49.46      A16S
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ATOM   4227  C2*  A   A 195      94.584  49.852  -8.719  1.00 43.51      A16S
ATOM   4228  O2*  A   A 195      95.833  50.362  -8.310  1.00 43.51      A16S
ATOM   4229  C3*  A   A 195      94.690  48.595  -9.584  1.00 43.51      A16S
ATOM   4230  O3*  A   A 195      95.823  47.794  -9.239  1.00 43.51      A16S
ATOM   4231  P    A   A 196      95.630  46.367  -8.517  1.00 50.81      A16S
ATOM   4232  O1P  A   A 196      96.905  45.613  -8.699  1.00 40.92      A16S
ATOM   4233  O2P  A   A 196      94.358  45.751  -8.964  1.00 40.92      A16S
ATOM   4234  O5*  A   A 196      95.509  46.748  -6.977  1.00 50.81      A16S
ATOM   4235  C5*  A   A 196      96.618  47.363  -6.302  1.00 50.81      A16S
ATOM   4236  C4*  A   A 196      96.136  48.151  -5.121  1.00 50.81      A16S
ATOM   4237  O4*  A   A 196      95.192  49.135  -5.587  1.00 50.81      A16S
ATOM   4238  C1*  A   A 196      94.140  49.261  -4.659  1.00 50.81      A16S
ATOM   4239  N9   A   A 196      92.907  48.994  -5.386  1.00 40.92      A16S
ATOM   4240  C4   A   A 196      91.833  49.840  -5.494  1.00 40.92      A16S
ATOM   4241  N3   A   A 196      91.685  51.048  -4.923  1.00 40.92      A16S
ATOM   4242  C2   A   A 196      90.531  51.597  -5.286  1.00 40.92      A16S
ATOM   4243  N1   A   A 196      89.580  51.110  -6.087  1.00 40.92      A16S
ATOM   4244  C6   A   A 196      89.756  49.886  -6.634  1.00 40.92      A16S
ATOM   4245  N6   A   A 196      88.797  49.387  -7.417  1.00 40.92      A16S
ATOM   4246  C5   A   A 196      90.940  49.207  -6.338  1.00 40.92      A16S
ATOM   4247  N7   A   A 196      91.431  47.975  -6.737  1.00 40.92      A16S
ATOM   4248  C8   A   A 196      92.593  47.892  -6.136  1.00 40.92      A16S
ATOM   4249  C2*  A   A 196      94.433  48.338  -3.473  1.00 50.81      A16S
ATOM   4250  O2*  A   A 196      95.066  49.074  -2.447  1.00 50.81      A16S
ATOM   4251  C3*  A   A 196      95.390  47.329  -4.090  1.00 50.81      A16S
ATOM   4252  O3*  A   A 196      96.311  46.832  -3.126  1.00 50.81      A16S
ATOM   4253  P    A   A 197      96.548  45.246  -2.993  1.00 76.06      A16S
ATOM   4254  O1P  A   A 197      95.270  44.577  -3.356  1.00 43.18      A16S
ATOM   4255  O2P  A   A 197      97.782  44.883  -3.724  1.00 43.18      A16S
ATOM   4256  O5*  A   A 197      96.842  45.051  -1.438  1.00 76.06      A16S
ATOM   4257  C5*  A   A 197      96.265  43.960  -0.689  1.00 76.06      A16S
ATOM   4258  C4*  A   A 197      95.611  44.490   0.564  1.00 76.06      A16S
ATOM   4259  O4*  A   A 197      96.621  45.121   1.384  1.00 76.06      A16S
ATOM   4260  C1*  A   A 197      96.286  46.471   1.584  1.00 76.06      A16S
ATOM   4261  N9   A   A 197      97.524  47.234   1.620  1.00 43.18      A16S
ATOM   4262  C4   A   A 197      97.839  48.138   2.585  1.00 43.18      A16S
ATOM   4263  N3   A   A 197      97.062  48.526   3.601  1.00 43.18      A16S
ATOM   4264  C2   A   A 197      97.716  49.351   4.387  1.00 43.18      A16S
ATOM   4265  N1   A   A 197      98.962  49.795   4.279  1.00 43.18      A16S
ATOM   4266  C6   A   A 197      99.708  49.391   3.231  1.00 43.18      A16S
ATOM   4267  N6   A   A 197     100.960  49.836   3.121  1.00 43.18      A16S
ATOM   4268  C5   A   A 197      99.128  48.526   2.329  1.00 43.18      A16S
ATOM   4269  N7   A   A 197      99.607  47.922   1.185  1.00 43.18      A16S
ATOM   4270  C8   A   A 197      98.610  47.175   0.793  1.00 43.18      A16S
ATOM   4271  C2*  A   A 197      95.300  46.851   0.488  1.00 76.06      A16S
ATOM   4272  O2*  A   A 197      94.481  47.916   0.917  1.00 76.06      A16S
ATOM   4273  C3*  A   A 197      94.534  45.545   0.319  1.00 76.06      A16S
ATOM   4274  O3*  A   A 197      93.550  45.481   1.353  1.00 76.06      A16S
ATOM   4275  P    G   A 198      92.908  44.069   1.771  1.00 59.93      A16S
ATOM   4276  O1P  G   A 198      92.827  43.198   0.572  1.00 41.37      A16S
ATOM   4277  O2P  G   A 198      91.689  44.326   2.570  1.00 41.37      A16S
ATOM   4278  O5*  G   A 198      94.001  43.437   2.732  1.00 59.93      A16S
ATOM   4279  C5*  G   A 198      93.793  43.389   4.145  1.00 59.93      A16S
ATOM   4280  C4*  G   A 198      95.039  43.814   4.854  1.00 59.93      A16S
ATOM   4281  O4*  G   A 198      95.405  45.129   4.378  1.00 59.93      A16S
ATOM   4282  C1*  G   A 198      95.881  45.910   5.456  1.00 59.93      A16S
ATOM   4283  N9   G   A 198      94.931  46.995   5.677  1.00 41.37      A16S
ATOM   4284  C4   G   A 198      95.122  48.085   6.491  1.00 41.37      A16S
ATOM   4285  N3   G   A 198      96.227  48.344   7.218  1.00 41.37      A16S
ATOM   4286  C2   G   A 198      96.130  49.481   7.877  1.00 41.37      A16S
ATOM   4287  N2   G   A 198      97.139  49.886   8.631  1.00 41.37      A16S
ATOM   4288  N1   G   A 198      95.037  50.303   7.841  1.00 41.37      A16S
ATOM   4289  C6   G   A 198      93.883  50.061   7.106  1.00 41.37      A16S
ATOM   4290  O6   G   A 198      92.949  50.875   7.140  1.00 41.37      A16S
ATOM   4291  C5   G   A 198      93.973  48.831   6.379  1.00 41.37      A16S
ATOM   4292  N7   G   A 198      93.070  48.219   5.517  1.00 41.37      A16S
ATOM   4293  C8   G   A 198      93.679  47.135   5.126  1.00 41.37      A16S
ATOM   4294  C2*  G   A 198      95.962  45.000   6.675  1.00 59.93      A16S
ATOM   4295  O2*  G   A 198      97.242  44.409   6.724  1.00 59.93      A16S
ATOM   4296  C3*  G   A 198      94.887  43.983   6.350  1.00 59.93      A16S
ATOM   4297  O3*  G   A 198      95.075  42.771   7.041  1.00 59.93      A16S
ATOM   4298  P    G   A 199      94.431  42.593   8.496  1.00 52.51      A16S
ATOM   4299  O1P  G   A 199      94.859  41.237   8.925  1.00 49.09      A16S
ATOM   4300  O2P  G   A 199      92.983  42.926   8.423  1.00 49.09      A16S
ATOM   4301  O5*  G   A 199      95.172  43.688   9.387  1.00 52.51      A16S
ATOM   4302  C5*  G   A 199      96.550  43.514   9.733  1.00 52.51      A16S
ATOM   4303  C4*  G   A 199      97.058  44.692  10.518  1.00 52.51      A16S
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ATOM   4304  O4* G   A 199      96.910  45.897   9.731  1.00 52.51      A16S
ATOM   4305  C1* G   A 199      96.696  47.004  10.591  1.00 52.51      A16S
ATOM   4306  N9   G   A 199      95.398  47.592  10.292  1.00 49.09      A16S
ATOM   4307  C4   G   A 199      94.936  48.789  10.768  1.00 49.09      A16S
ATOM   4308  N3   G   A 199      95.624  49.645  11.545  1.00 49.09      A16S
ATOM   4309  C2   G   A 199      94.928  50.731  11.817  1.00 49.09      A16S
ATOM   4310  N2   G   A 199      95.487  51.712  12.528  1.00 49.09      A16S
ATOM   4311  N1   G   A 199      93.640  50.940  11.401  1.00 49.09      A16S
ATOM   4312  C6   G   A 199      92.900  50.056  10.623  1.00 49.09      A16S
ATOM   4313  O6   G   A 199      91.722  50.320  10.334  1.00 49.09      A16S
ATOM   4314  C5   G   A 199      93.658  48.909  10.278  1.00 49.09      A16S
ATOM   4315  N7   G   A 199      93.330  47.819   9.484  1.00 49.09      A16S
ATOM   4316  C8   G   A 199      94.393  47.065   9.521  1.00 49.09      A16S
ATOM   4317  C2* G   A 199      96.706  46.487  12.024  1.00 52.51      A16S
ATOM   4318  O2* G   A 199      97.987  46.691  12.601  1.00 52.51      A16S
ATOM   4319  C3* G   A 199      96.340  45.023  11.810  1.00 52.51      A16S
ATOM   4320  O3* G   A 199      96.733  44.207  12.895  1.00 52.51      A16S
ATOM   4321  P    G   A 200      95.693  43.939  14.093  1.00 55.05      A16S
ATOM   4322  O1P G   A 200      96.398  42.978  15.000  1.00 43.48      A16S
ATOM   4323  O2P G   A 200      94.345  43.603  13.545  1.00 43.48      A16S
ATOM   4324  O5* G   A 200      95.563  45.346  14.818  1.00 55.05      A16S
ATOM   4325  C5* G   A 200      96.707  45.940  15.416  1.00 55.05      A16S
ATOM   4326  C4* G   A 200      96.338  47.246  16.050  1.00 55.05      A16S
ATOM   4327  O4* G   A 200      95.897  48.163  15.034  1.00 55.05      A16S
ATOM   4328  C1* G   A 200      94.915  49.018  15.571  1.00 55.05      A16S
ATOM   4329  N9   G   A 200      93.711  48.909  14.763  1.00 43.48      A16S
ATOM   4330  C4   G   A 200      92.695  49.822  14.725  1.00 43.48      A16S
ATOM   4331  N3   G   A 200      92.620  50.943  15.466  1.00 43.48      A16S
ATOM   4332  C2   G   A 200      91.553  51.647  15.177  1.00 43.48      A16S
ATOM   4333  N2   G   A 200      91.328  52.789  15.826  1.00 43.48      A16S
ATOM   4334  N1   G   A 200      90.629  51.281  14.228  1.00 43.48      A16S
ATOM   4335  C6   G   A 200      90.690  50.126  13.452  1.00 43.48      A16S
ATOM   4336  O6   G   A 200      89.812  49.890  12.609  1.00 43.48      A16S
ATOM   4337  C5   G   A 200      91.824  49.360  13.763  1.00 43.48      A16S
ATOM   4338  N7   G   A 200      92.265  48.157  13.234  1.00 43.48      A16S
ATOM   4339  C8   G   A 200      93.384  47.921  13.866  1.00 43.48      A16S
ATOM   4340  C2* G   A 200      94.700  48.643  17.028  1.00 55.05      A16S
ATOM   4341  O2* G   A 200      95.503  49.505  17.801  1.00 55.05      A16S
ATOM   4342  C3* G   A 200      95.192  47.207  17.040  1.00 55.05      A16S
ATOM   4343  O3* G   A 200      95.648  46.820  18.319  1.00 55.05      A16S
ATOM   4344  P    C   A 201      94.643  46.087  19.328  1.00 98.22      A16S
ATOM   4345  O1P C   A 201      95.311  44.844  19.790  1.00 55.79      A16S
ATOM   4346  O2P C   A 201      93.281  46.009  18.729  1.00 55.79      A16S
ATOM   4347  O5* C   A 201      94.598  47.103  20.543  1.00 98.22      A16S
ATOM   4348  C5* C   A 201      93.367  47.401  21.188  1.00 98.22      A16S
ATOM   4349  C4* C   A 201      92.987  48.830  20.931  1.00 98.22      A16S
ATOM   4350  O4* C   A 201      92.808  49.047  19.515  1.00 98.22      A16S
ATOM   4351  C1* C   A 201      91.801  50.019  19.319  1.00 98.22      A16S
ATOM   4352  N1   C   A 201      90.858  49.553  18.285  1.00 55.79      A16S
ATOM   4353  C6   C   A 201      91.012  48.331  17.685  1.00 55.79      A16S
ATOM   4354  C2   C   A 201      89.812  50.409  17.889  1.00 55.79      A16S
ATOM   4355  O2   C   A 201      89.646  51.489  18.493  1.00 55.79      A16S
ATOM   4356  N3   C   A 201      89.008  50.036  16.866  1.00 55.79      A16S
ATOM   4357  C4   C   A 201      89.194  48.859  16.263  1.00 55.79      A16S
ATOM   4358  N4   C   A 201      88.388  48.550  15.241  1.00 55.79      A16S
ATOM   4359  C5   C   A 201      90.215  47.950  16.677  1.00 55.79      A16S
ATOM   4360  C2* C   A 201      91.202  50.392  20.676  1.00 98.22      A16S
ATOM   4361  O2* C   A 201      91.709  51.658  21.056  1.00 98.22      A16S
ATOM   4362  C3* C   A 201      91.667  49.232  21.554  1.00 98.22      A16S
ATOM   4363  O3* C   A 201      91.905  49.599  22.906  1.00 98.22      A16S
ATOM   4364  P    U   A 202      90.854  49.189  24.039  1.00129.84      A16S
ATOM   4365  O1P U   A 202      91.669  48.859  25.234  1.00154.49      A16S
ATOM   4366  O2P U   A 202      89.918  48.173  23.478  1.00154.49      A16S
ATOM   4367  O5* U   A 202      90.075  50.558  24.300  1.00129.84      A16S
ATOM   4368  C5* U   A 202      88.756  50.587  24.887  1.00129.84      A16S
ATOM   4369  C4* U   A 202      88.097  51.926  24.624  1.00129.84      A16S
ATOM   4370  O4* U   A 202      88.924  52.972  25.182  1.00129.84      A16S
ATOM   4371  C1* U   A 202      88.769  54.149  24.419  1.00129.84      A16S
ATOM   4372  N1   U   A 202      90.087  54.780  24.254  1.00154.49      A16S
ATOM   4373  C6   U   A 202      91.011  54.306  23.350  1.00154.49      A16S
ATOM   4374  C2   U   A 202      90.378  55.871  25.065  1.00154.49      A16S
ATOM   4375  O2   U   A 202      89.584  56.342  25.865  1.00154.49      A16S
ATOM   4376  N3   U   A 202      91.635  56.391  24.905  1.00154.49      A16S
ATOM   4377  C4   U   A 202      92.611  55.953  24.037  1.00154.49      A16S
ATOM   4378  O4   U   A 202      93.721  56.488  24.060  1.00154.49      A16S
ATOM   4379  C5   U   A 202      92.229  54.841  23.217  1.00154.49      A16S
ATOM   4380  C2* U   A 202      87.957  53.826  23.158  1.00129.84      A16S
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ATOM   4381  O2* U   A 202      86.671  54.406  23.269  1.00129.84      A16S
ATOM   4382  C3* U   A 202      87.939  52.293  23.153  1.00129.84      A16S
ATOM   4383  O3* U   A 202      86.682  51.826  22.648  1.00129.84      A16S
ATOM   4384  P   U   A 203      86.352  50.250  22.629  1.00 83.30      A16S
ATOM   4385  O1P U   A 203      85.688  49.951  23.921  1.00118.55      A16S
ATOM   4386  O2P U   A 203      87.570  49.492  22.232  1.00118.55      A16S
ATOM   4387  O5* U   A 203      85.266  50.079  21.477  1.00 83.30      A16S
ATOM   4388  C5* U   A 203      85.388  50.800  20.245  1.00 83.30      A16S
ATOM   4389  C4* U   A 203      85.209  49.874  19.069  1.00 83.30      A16S
ATOM   4390  O4* U   A 203      86.311  48.967  18.933  1.00 83.30      A16S
ATOM   4391  C1* U   A 203      85.921  48.019  17.970  1.00 83.30      A16S
ATOM   4392  N1  U   A 203      86.841  46.865  17.968  1.00118.55      A16S
ATOM   4393  C6  U   A 203      87.734  46.639  18.997  1.00118.55      A16S
ATOM   4394  C2  U   A 203      86.804  46.016  16.860  1.00118.55      A16S
ATOM   4395  O2  U   A 203      86.008  46.147  15.939  1.00118.55      A16S
ATOM   4396  N3  U   A 203      87.734  45.008  16.871  1.00118.55      A16S
ATOM   4397  C4  U   A 203      88.671  44.748  17.849  1.00118.55      A16S
ATOM   4398  O4  U   A 203      89.487  43.834  17.679  1.00118.55      A16S
ATOM   4399  C5  U   A 203      88.626  45.641  18.974  1.00118.55      A16S
ATOM   4400  C2* U   A 203      84.427  47.761  18.199  1.00 83.30      A16S
ATOM   4401  O2* U   A 203      83.767  47.733  16.947  1.00 83.30      A16S
ATOM   4402  C3* U   A 203      84.005  48.947  19.088  1.00 83.30      A16S
ATOM   4403  O3* U   A 203      82.908  49.637  18.512  1.00 83.30      A16S
ATOM   4404  P   U   A 204      81.851  50.387  19.454  1.00148.88      A16S
ATOM   4405  O1P U   A 204      82.562  50.880  20.665  1.00201.30      A16S
ATOM   4406  O2P U   A 204      80.675  49.489  19.608  1.00201.30      A16S
ATOM   4407  O5* U   A 204      81.432  51.652  18.580  1.00148.88      A16S
ATOM   4408  C5* U   A 204      80.220  51.660  17.797  1.00148.88      A16S
ATOM   4409  C4* U   A 204      80.518  51.293  16.362  1.00148.88      A16S
ATOM   4410  O4* U   A 204      80.976  49.925  16.311  1.00148.88      A16S
ATOM   4411  C1* U   A 204      80.657  49.382  15.050  1.00148.88      A16S
ATOM   4412  N1  U   A 204      80.209  47.994  15.223  1.00201.30      A16S
ATOM   4413  C6  U   A 204      79.094  47.680  15.967  1.00201.30      A16S
ATOM   4414  C2  U   A 204      80.960  47.002  14.609  1.00201.30      A16S
ATOM   4415  O2  U   A 204      81.955  47.236  13.937  1.00201.30      A16S
ATOM   4416  N3  U   A 204      80.504  45.725  14.810  1.00201.30      A16S
ATOM   4417  C4  U   A 204      79.403  45.342  15.545  1.00201.30      A16S
ATOM   4418  O4  U   A 204      79.145  44.144  15.662  1.00201.30      A16S
ATOM   4419  C5  U   A 204      78.676  46.423  16.143  1.00201.30      A16S
ATOM   4420  C2* U   A 204      79.691  50.326  14.327  1.00148.88      A16S
ATOM   4421  O2* U   A 204      80.352  50.914  13.224  1.00148.88      A16S
ATOM   4422  C3* U   A 204      79.321  51.330  15.420  1.00148.88      A16S
ATOM   4423  O3* U   A 204      79.236  52.627  14.838  1.00148.88      A16S
ATOM   4424  P   G   A 216      78.185  53.705  15.397  1.00167.21      A16S
ATOM   4425  O1P G   A 216      77.602  53.244  16.687  1.00 76.97      A16S
ATOM   4426  O2P G   A 216      77.298  54.049  14.263  1.00 76.97      A16S
ATOM   4427  O5* G   A 216      79.080  54.988  15.684  1.00167.21      A16S
ATOM   4428  C5* G   A 216      79.839  55.599  14.627  1.00167.21      A16S
ATOM   4429  C4* G   A 216      81.251  55.844  15.088  1.00167.21      A16S
ATOM   4430  O4* G   A 216      81.877  54.585  15.428  1.00167.21      A16S
ATOM   4431  C1* G   A 216      83.269  54.682  15.209  1.00167.21      A16S
ATOM   4432  N9  G   A 216      83.718  53.524  14.445  1.00 76.97      A16S
ATOM   4433  C4  G   A 216      84.745  52.685  14.804  1.00 76.97      A16S
ATOM   4434  N3  G   A 216      85.529  52.820  15.892  1.00 76.97      A16S
ATOM   4435  C2  G   A 216      86.404  51.841  15.992  1.00 76.97      A16S
ATOM   4436  N2  G   A 216      87.246  51.823  17.021  1.00 76.97      A16S
ATOM   4437  N1  G   A 216      86.513  50.811  15.095  1.00 76.97      A16S
ATOM   4438  C6  G   A 216      85.720  50.651  13.963  1.00 76.97      A16S
ATOM   4439  O6  G   A 216      85.897  49.679  13.218  1.00 76.97      A16S
ATOM   4440  C5  G   A 216      84.768  51.699  13.842  1.00 76.97      A16S
ATOM   4441  N7  G   A 216      83.793  51.928  12.878  1.00 76.97      A16S
ATOM   4442  C8  G   A 216      83.202  53.028  13.271  1.00 76.97      A16S
ATOM   4443  C2* G   A 216      83.570  56.047  14.600  1.00167.21      A16S
ATOM   4444  O2* G   A 216      84.022  56.877  15.649  1.00167.21      A16S
ATOM   4445  C3* G   A 216      82.199  56.475  14.084  1.00167.21      A16S
ATOM   4446  O3* G   A 216      82.043  57.888  14.117  1.00167.21      A16S
ATOM   4447  P   C   A 217      83.032  58.824  13.264  1.00121.28      A16S
ATOM   4448  O1P C   A 217      82.461  60.199  13.342  1.00 69.94      A16S
ATOM   4449  O2P C   A 217      83.253  58.181  11.928  1.00 69.94      A16S
ATOM   4450  O5* C   A 217      84.389  58.809  14.105  1.00121.28      A16S
ATOM   4451  C5* C   A 217      85.675  58.656  13.466  1.00121.28      A16S
ATOM   4452  C4* C   A 217      86.743  58.400  14.505  1.00121.28      A16S
ATOM   4453  O4* C   A 217      86.498  57.124  15.150  1.00121.28      A16S
ATOM   4454  C1* C   A 217      87.726  56.459  15.392  1.00121.28      A16S
ATOM   4455  N1  C   A 217      87.809  55.305  14.484  1.00 69.94      A16S
ATOM   4456  C6  C   A 217      86.948  55.177  13.429  1.00 69.94      A16S
ATOM   4457  C2  C   A 217      88.801  54.354  14.701  1.00 69.94      A16S
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ATOM   4458  O2  C   A 217      89.555  54.487  15.672  1.00 69.94      A16S
ATOM   4459  N3  C   A 217      88.915  53.320  13.850  1.00 69.94      A16S
ATOM   4460  C4  C   A 217      88.081  53.213  12.816  1.00 69.94      A16S
ATOM   4461  N4  C   A 217      88.238  52.178  11.988  1.00 69.94      A16S
ATOM   4462  C5  C   A 217      87.050  54.160  12.579  1.00 69.94      A16S
ATOM   4463  C2* C   A 217      88.840  57.431  15.032  1.00121.28      A16S
ATOM   4464  O2* C   A 217      89.225  58.159  16.178  1.00121.28      A16S
ATOM   4465  C3* C   A 217      88.154  58.270  13.968  1.00121.28      A16S
ATOM   4466  O3* C   A 217      88.771  59.520  13.789  1.00121.28      A16S
ATOM   4467  P   C   A 218      89.850  59.694  12.623  1.00 77.24      A16S
ATOM   4468  O1P C   A 218      90.232  61.134  12.656  1.00 44.86      A16S
ATOM   4469  O2P C   A 218      89.308  59.085  11.374  1.00 44.86      A16S
ATOM   4470  O5* C   A 218      91.081  58.812  13.108  1.00 77.24      A16S
ATOM   4471  C5* C   A 218      91.768  59.127  14.330  1.00 77.24      A16S
ATOM   4472  C4* C   A 218      92.907  58.163  14.561  1.00 77.24      A16S
ATOM   4473  O4* C   A 218      92.384  56.846  14.862  1.00 77.24      A16S
ATOM   4474  C1* C   A 218      93.220  55.855  14.291  1.00 77.24      A16S
ATOM   4475  N1  C   A 218      92.453  55.154  13.249  1.00 44.86      A16S
ATOM   4476  C6  C   A 218      91.433  55.780  12.590  1.00 44.86      A16S
ATOM   4477  C2  C   A 218      92.793  53.835  12.930  1.00 44.86      A16S
ATOM   4478  O2  C   A 218      93.721  53.288  13.549  1.00 44.86      A16S
ATOM   4479  N3  C   A 218      92.105  53.191  11.955  1.00 44.86      A16S
ATOM   4480  C4  C   A 218      91.120  53.819  11.313  1.00 44.86      A16S
ATOM   4481  N4  C   A 218      90.475  53.160  10.354  1.00 44.86      A16S
ATOM   4482  C5  C   A 218      90.751  55.158  11.624  1.00 44.86      A16S
ATOM   4483  C2* C   A 218      94.420  56.573  13.684  1.00 77.24      A16S
ATOM   4484  O2* C   A 218      95.451  56.648  14.644  1.00 77.24      A16S
ATOM   4485  C3* C   A 218      93.818  57.932  13.375  1.00 77.24      A16S
ATOM   4486  O3* C   A 218      94.781  58.943  13.226  1.00 77.24      A16S
ATOM   4487  P   C   A 219      95.283  59.325  11.755  1.00 66.72      A16S
ATOM   4488  O1P C   A 219      96.065  60.572  11.955  1.00 41.15      A16S
ATOM   4489  O2P C   A 219      94.146  59.309  10.785  1.00 41.15      A16S
ATOM   4490  O5* C   A 219      96.265  58.131  11.381  1.00 66.72      A16S
ATOM   4491  C5* C   A 219      97.425  57.893  12.179  1.00 66.72      A16S
ATOM   4492  C4* C   A 219      98.077  56.590  11.806  1.00 66.72      A16S
ATOM   4493  O4* C   A 219      97.227  55.471  12.176  1.00 66.72      A16S
ATOM   4494  C1* C   A 219      97.438  54.395  11.273  1.00 66.72      A16S
ATOM   4495  N1  C   A 219      96.209  54.157  10.494  1.00 41.15      A16S
ATOM   4496  C6  C   A 219      95.138  54.996  10.578  1.00 41.15      A16S
ATOM   4497  C2  C   A 219      96.171  53.058   9.626  1.00 41.15      A16S
ATOM   4498  O2  C   A 219      97.139  52.296   9.587  1.00 41.15      A16S
ATOM   4499  N3  C   A 219      95.090  52.859   8.850  1.00 41.15      A16S
ATOM   4500  C4  C   A 219      94.069  53.706   8.911  1.00 41.15      A16S
ATOM   4501  N4  C   A 219      93.049  53.503   8.085  1.00 41.15      A16S
ATOM   4502  C5  C   A 219      94.058  54.810   9.810  1.00 41.15      A16S
ATOM   4503  C2* C   A 219      98.527  54.841  10.304  1.00 66.72      A16S
ATOM   4504  O2* C   A 219      99.791  54.422  10.789  1.00 66.72      A16S
ATOM   4505  C3* C   A 219      98.344  56.348  10.336  1.00 66.72      A16S
ATOM   4506  O3* C   A 219      99.443  57.050   9.800  1.00 66.72      A16S
ATOM   4507  P   G   A 220      99.325  57.638   8.311  1.00 71.09      A16S
ATOM   4508  O1P G   A 220     100.652  58.212   8.003  1.00 53.56      A16S
ATOM   4509  O2P G   A 220      98.111  58.484   8.210  1.00 53.56      A16S
ATOM   4510  O5* G   A 220      99.064  56.366   7.387  1.00 71.09      A16S
ATOM   4511  C5* G   A 220     100.030  55.316   7.328  1.00 71.09      A16S
ATOM   4512  C4* G   A 220      99.531  54.145   6.507  1.00 71.09      A16S
ATOM   4513  O4* G   A 220      98.298  53.602   7.052  1.00 71.09      A16S
ATOM   4514  C1* G   A 220      97.650  52.835   6.048  1.00 71.09      A16S
ATOM   4515  N9  G   A 220      96.296  53.332   5.826  1.00 53.56      A16S
ATOM   4516  C4  G   A 220      95.320  52.697   5.098  1.00 53.56      A16S
ATOM   4517  N3  G   A 220      95.434  51.498   4.506  1.00 53.56      A16S
ATOM   4518  C2  G   A 220      94.335  51.161   3.864  1.00 53.56      A16S
ATOM   4519  N2  G   A 220      94.267  49.993   3.226  1.00 53.56      A16S
ATOM   4520  N1  G   A 220      93.219  51.941   3.800  1.00 53.56      A16S
ATOM   4521  C6  G   A 220      93.082  53.182   4.399  1.00 53.56      A16S
ATOM   4522  O6  G   A 220      92.029  53.813   4.271  1.00 53.56      A16S
ATOM   4523  C5  G   A 220      94.247  53.551   5.100  1.00 53.56      A16S
ATOM   4524  N7  G   A 220      94.527  54.694   5.833  1.00 53.56      A16S
ATOM   4525  C8  G   A 220      95.752  54.517   6.250  1.00 53.56      A16S
ATOM   4526  C2* G   A 220      98.449  53.025   4.763  1.00 71.09      A16S
ATOM   4527  O2* G   A 220      99.412  52.002   4.658  1.00 71.09      A16S
ATOM   4528  C3* G   A 220      99.185  54.322   5.037  1.00 71.09      A16S
ATOM   4529  O3* G   A 220     100.297  54.359   4.155  1.00 71.09      A16S
ATOM   4530  P   C   A 221     100.076  54.854   2.638  1.00 49.26      A16S
ATOM   4531  O1P C   A 221     101.406  54.901   1.976  1.00 41.89      A16S
ATOM   4532  O2P C   A 221      99.223  56.072   2.685  1.00 41.89      A16S
ATOM   4533  O5* C   A 221      99.212  53.715   1.942  1.00 49.26      A16S
ATOM   4534  C5* C   A 221      99.787  52.438   1.673  1.00 49.26      A16S
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ATOM   4535  C4*  C   A 221      98.860  51.618   0.824  1.00 49.26      A16S
ATOM   4536  O4*  C   A 221      97.627  51.406   1.544  1.00 49.26      A16S
ATOM   4537  C1*  C   A 221      96.538  51.431   0.641  1.00 49.26      A16S
ATOM   4538  N1   C   A 221      95.687  52.591   0.953  1.00 41.89      A16S
ATOM   4539  C6   C   A 221      96.091  53.561   1.831  1.00 41.89      A16S
ATOM   4540  C2   C   A 221      94.456  52.696   0.306  1.00 41.89      A16S
ATOM   4541  O2   C   A 221      94.091  51.769  -0.438  1.00 41.89      A16S
ATOM   4542  N3   C   A 221      93.689  53.796   0.510  1.00 41.89      A16S
ATOM   4543  C4   C   A 221      94.106  54.754   1.339  1.00 41.89      A16S
ATOM   4544  N4   C   A 221      93.334  55.837   1.476  1.00 41.89      A16S
ATOM   4545  C5   C   A 221      95.339  54.648   2.054  1.00 41.89      A16S
ATOM   4546  C2*  C   A 221      97.113  51.573  -0.765  1.00 49.26      A16S
ATOM   4547  O2*  C   A 221      97.271  50.295  -1.362  1.00 49.26      A16S
ATOM   4548  C3*  C   A 221      98.430  52.268  -0.474  1.00 49.26      A16S
ATOM   4549  O3*  C   A 221      99.372  52.075  -1.511  1.00 49.26      A16S
ATOM   4550  P    U   A 222      99.460  53.147  -2.701  1.00 43.31      A16S
ATOM   4551  O1P  U   A 222     100.575  52.709  -3.584  1.00 44.08      A16S
ATOM   4552  O2P  U   A 222      99.475  54.517  -2.098  1.00 44.08      A16S
ATOM   4553  O5*  U   A 222      98.092  52.970  -3.489  1.00 43.31      A16S
ATOM   4554  C5*  U   A 222      97.794  51.751  -4.167  1.00 43.31      A16S
ATOM   4555  C4*  U   A 222      96.645  51.963  -5.114  1.00 43.31      A16S
ATOM   4556  O4*  U   A 222      95.414  52.155  -4.376  1.00 43.31      A16S
ATOM   4557  C1*  U   A 222      94.597  53.098  -5.042  1.00 43.31      A16S
ATOM   4558  N1   U   A 222      94.379  54.230  -4.132  1.00 44.08      A16S
ATOM   4559  C6   U   A 222      95.108  54.373  -2.984  1.00 44.08      A16S
ATOM   4560  C2   U   A 222      93.409  55.141  -4.468  1.00 44.08      A16S
ATOM   4561  O2   U   A 222      92.755  55.063  -5.484  1.00 44.08      A16S
ATOM   4562  N3   U   A 222      93.232  56.157  -3.574  1.00 44.08      A16S
ATOM   4563  C4   U   A 222      93.917  56.357  -2.407  1.00 44.08      A16S
ATOM   4564  O4   U   A 222      93.648  57.338  -1.709  1.00 44.08      A16S
ATOM   4565  C5   U   A 222      94.917  55.376  -2.132  1.00 44.08      A16S
ATOM   4566  C2*  U   A 222      95.304  53.486  -6.338  1.00 43.31      A16S
ATOM   4567  O2*  U   A 222      94.832  52.650  -7.373  1.00 43.31      A16S
ATOM   4568  C3*  U   A 222      96.755  53.200  -5.981  1.00 43.31      A16S
ATOM   4569  O3*  U   A 222      97.578  52.951  -7.099  1.00 43.31      A16S
ATOM   4570  P    U   A 223      98.462  54.138  -7.697  1.00 44.28      A16S
ATOM   4571  O1P  U   A 223      99.476  53.499  -8.572  1.00 42.31      A16S
ATOM   4572  O2P  U   A 223      98.894  55.009  -6.568  1.00 42.31      A16S
ATOM   4573  O5*  U   A 223      97.419  54.927  -8.602  1.00 44.28      A16S
ATOM   4574  C5*  U   A 223      96.783  54.271  -9.706  1.00 44.28      A16S
ATOM   4575  C4*  U   A 223      95.640  55.101 -10.237  1.00 44.28      A16S
ATOM   4576  O4*  U   A 223      94.523  55.107  -9.308  1.00 44.28      A16S
ATOM   4577  C1*  U   A 223      93.852  56.356  -9.368  1.00 44.28      A16S
ATOM   4578  N1   U   A 223      94.011  57.025  -8.071  1.00 42.31      A16S
ATOM   4579  C6   U   A 223      95.014  56.662  -7.214  1.00 42.31      A16S
ATOM   4580  C2   U   A 223      93.135  58.041  -7.747  1.00 42.31      A16S
ATOM   4581  O2   U   A 223      92.227  58.390  -8.473  1.00 42.31      A16S
ATOM   4582  N3   U   A 223      93.365  58.634  -6.537  1.00 42.31      A16S
ATOM   4583  C4   U   A 223      94.356  58.314  -5.638  1.00 42.31      A16S
ATOM   4584  O4   U   A 223      94.424  58.915  -4.568  1.00 42.31      A16S
ATOM   4585  C5   U   A 223      95.211  57.255  -6.047  1.00 42.31      A16S
ATOM   4586  C2*  U   A 223      94.536  57.174 -10.458  1.00 44.28      A16S
ATOM   4587  O2*  U   A 223      93.847  56.966 -11.673  1.00 44.28      A16S
ATOM   4588  C3*  U   A 223      95.932  56.568 -10.454  1.00 44.28      A16S
ATOM   4589  O3*  U   A 223      96.658  56.803 -11.636  1.00 44.28      A16S
ATOM   4590  P    C   A 224      97.657  58.056 -11.700  1.00 52.00      A16S
ATOM   4591  O1P  C   A 224      98.269  57.968 -13.050  1.00 47.38      A16S
ATOM   4592  O2P  C   A 224      98.530  58.122 -10.500  1.00 47.38      A16S
ATOM   4593  O5*  C   A 224      96.669  59.298 -11.660  1.00 52.00      A16S
ATOM   4594  C5*  C   A 224      95.671  59.437 -12.670  1.00 52.00      A16S
ATOM   4595  C4*  C   A 224      94.811  60.632 -12.396  1.00 52.00      A16S
ATOM   4596  O4*  C   A 224      94.046  60.413 -11.191  1.00 52.00      A16S
ATOM   4597  C1*  C   A 224      93.806  61.651 -10.558  1.00 52.00      A16S
ATOM   4598  N1   C   A 224      94.308  61.582  -9.188  1.00 47.38      A16S
ATOM   4599  C6   C   A 224      95.255  60.668  -8.825  1.00 47.38      A16S
ATOM   4600  C2   C   A 224      93.805  62.481  -8.258  1.00 47.38      A16S
ATOM   4601  O2   C   A 224      92.942  63.295  -8.622  1.00 47.38      A16S
ATOM   4602  N3   C   A 224      94.269  62.453  -6.993  1.00 47.38      A16S
ATOM   4603  C4   C   A 224      95.207  61.576  -6.652  1.00 47.38      A16S
ATOM   4604  N4   C   A 224      95.662  61.608  -5.405  1.00 47.38      A16S
ATOM   4605  C5   C   A 224      95.730  60.632  -7.579  1.00 47.38      A16S
ATOM   4606  C2*  C   A 224      94.498  62.743 -11.369  1.00 52.00      A16S
ATOM   4607  O2*  C   A 224      93.539  63.356 -12.202  1.00 52.00      A16S
ATOM   4608  C3*  C   A 224      95.534  61.941 -12.147  1.00 52.00      A16S
ATOM   4609  O3*  C   A 224      95.905  62.566 -13.367  1.00 52.00      A16S
ATOM   4610  P    C   A 225      97.121  63.617 -13.379  1.00 45.30      A16S
ATOM   4611  O1P  C   A 225      97.425  63.883 -14.813  1.00 61.05      A16S
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ATOM   4612  O2P C   A 225      98.197  63.124 -12.487  1.00 61.05      A16S
ATOM   4613  O5* C   A 225      96.491  64.918 -12.716  1.00 45.30      A16S
ATOM   4614  C5* C   A 225      95.472  65.638 -13.401  1.00 45.30      A16S
ATOM   4615  C4* C   A 225      94.880  66.684 -12.509  1.00 45.30      A16S
ATOM   4616  O4* C   A 225      94.282  66.050 -11.353  1.00 45.30      A16S
ATOM   4617  C1* C   A 225      94.340  66.934 -10.245  1.00 45.30      A16S
ATOM   4618  N1  C   A 225      95.045  66.279  -9.134  1.00 61.05      A16S
ATOM   4619  C6  C   A 225      95.752  65.125  -9.323  1.00 61.05      A16S
ATOM   4620  C2  C   A 225      94.987  66.872  -7.867  1.00 61.05      A16S
ATOM   4621  O2  C   A 225      94.341  67.915  -7.721  1.00 61.05      A16S
ATOM   4622  N3  C   A 225      95.639  66.300  -6.839  1.00 61.05      A16S
ATOM   4623  C4  C   A 225      96.330  65.177  -7.033  1.00 61.05      A16S
ATOM   4624  N4  C   A 225      96.963  64.647  -5.986  1.00 61.05      A16S
ATOM   4625  C5  C   A 225      96.405  64.546  -8.311  1.00 61.05      A16S
ATOM   4626  C2* C   A 225      95.076  68.192 -10.697  1.00 45.30      A16S
ATOM   4627  O2* C   A 225      94.133  69.186 -11.032  1.00 45.30      A16S
ATOM   4628  C3* C   A 225      95.849  67.677 -11.902  1.00 45.30      A16S
ATOM   4629  O3* C   A 225      96.228  68.711 -12.792  1.00 45.30      A16S
ATOM   4630  P   G   A 226      97.716  69.310 -12.702  1.00 61.01      A16S
ATOM   4631  O1P G   A 226      97.901  70.164 -13.901  1.00 58.46      A16S
ATOM   4632  O2P G   A 226      98.663  68.216 -12.437  1.00 58.46      A16S
ATOM   4633  O5* G   A 226      97.685  70.207 -11.391  1.00 61.01      A16S
ATOM   4634  C5* G   A 226      96.834  71.352 -11.333  1.00 61.01      A16S
ATOM   4635  C4* G   A 226      96.821  71.938  -9.945  1.00 61.01      A16S
ATOM   4636  O4* G   A 226      96.142  71.039  -9.029  1.00 61.01      A16S
ATOM   4637  C1* G   A 226      96.708  71.167  -7.737  1.00 61.01      A16S
ATOM   4638  N9  G   A 226      97.326  69.903  -7.362  1.00 58.46      A16S
ATOM   4639  C4  G   A 226      97.736  69.570  -6.107  1.00 58.46      A16S
ATOM   4640  N3  G   A 226      97.570  70.321  -5.007  1.00 58.46      A16S
ATOM   4641  C2  G   A 226      98.115  69.768  -3.947  1.00 58.46      A16S
ATOM   4642  N2  G   A 226      98.025  70.384  -2.772  1.00 58.46      A16S
ATOM   4643  N1  G   A 226      98.787  68.571  -3.965  1.00 58.46      A16S
ATOM   4644  C6  G   A 226      98.971  67.780  -5.095  1.00 58.46      A16S
ATOM   4645  O6  G   A 226      99.610  66.724  -5.012  1.00 58.46      A16S
ATOM   4646  C5  G   A 226      98.369  68.360  -6.236  1.00 58.46      A16S
ATOM   4647  N7  G   A 226      98.309  67.913  -7.544  1.00 58.46      A16S
ATOM   4648  C8  G   A 226      97.670  68.856  -8.175  1.00 58.46      A16S
ATOM   4649  C2* G   A 226      97.797  72.237  -7.816  1.00 61.01      A16S
ATOM   4650  O2* G   A 226      97.269  73.492  -7.440  1.00 61.01      A16S
ATOM   4651  C3* G   A 226      98.168  72.186  -9.288  1.00 61.01      A16S
ATOM   4652  O3* G   A 226      98.812  73.375  -9.714  1.00 61.01      A16S
ATOM   4653  P   G   A 227     100.400  73.519  -9.507  1.00 51.12      A16S
ATOM   4654  O1P G   A 227     100.845  74.714 -10.268  1.00 49.34      A16S
ATOM   4655  O2P G   A 227     101.054  72.205  -9.758  1.00 49.34      A16S
ATOM   4656  O5* G   A 227     100.547  73.840  -7.959  1.00 51.12      A16S
ATOM   4657  C5* G   A 227      99.817  74.907  -7.384  1.00 51.12      A16S
ATOM   4658  C4* G   A 227      99.868  74.817  -5.894  1.00 51.12      A16S
ATOM   4659  O4* G   A 227      99.357  73.534  -5.461  1.00 51.12      A16S
ATOM   4660  C1* G   A 227     100.009  73.142  -4.266  1.00 51.12      A16S
ATOM   4661  N9  G   A 227     100.668  71.853  -4.473  1.00 49.34      A16S
ATOM   4662  C4  G   A 227     101.347  71.137  -3.518  1.00 49.34      A16S
ATOM   4663  N3  G   A 227     101.538  71.513  -2.234  1.00 49.34      A16S
ATOM   4664  C2  G   A 227     102.209  70.608  -1.558  1.00 49.34      A16S
ATOM   4665  N2  G   A 227     102.481  70.820  -0.270  1.00 49.34      A16S
ATOM   4666  N1  G   A 227     102.658  69.426  -2.100  1.00 49.34      A16S
ATOM   4667  C6  G   A 227     102.470  69.028  -3.421  1.00 49.34      A16S
ATOM   4668  O6  G   A 227     102.906  67.949  -3.809  1.00 49.34      A16S
ATOM   4669  C5  G   A 227     101.760  69.983  -4.150  1.00 49.34      A16S
ATOM   4670  N7  G   A 227     101.370  69.981  -5.478  1.00 49.34      A16S
ATOM   4671  C8  G   A 227     100.729  71.109  -5.629  1.00 49.34      A16S
ATOM   4672  C2* G   A 227     101.011  74.237  -3.917  1.00 51.12      A16S
ATOM   4673  O2* G   A 227     100.409  75.152  -3.022  1.00 51.12      A16S
ATOM   4674  C3* G   A 227     101.246  74.865  -5.277  1.00 51.12      A16S
ATOM   4675  O3* G   A 227     101.720  76.179  -5.158  1.00 51.12      A16S
ATOM   4676  P   A   A 228     103.275  76.461  -5.386  1.00 45.06      A16S
ATOM   4677  O1P A   A 228     103.440  77.937  -5.254  1.00 49.25      A16S
ATOM   4678  O2P A   A 228     103.680  75.770  -6.639  1.00 49.25      A16S
ATOM   4679  O5* A   A 228     103.992  75.742  -4.160  1.00 45.06      A16S
ATOM   4680  C5* A   A 228     103.867  76.296  -2.849  1.00 45.06      A16S
ATOM   4681  C4* A   A 228     104.507  75.400  -1.831  1.00 45.06      A16S
ATOM   4682  O4* A   A 228     103.875  74.099  -1.882  1.00 45.06      A16S
ATOM   4683  C1* A   A 228     104.830  73.093  -1.618  1.00 45.06      A16S
ATOM   4684  N9  A   A 228     104.963  72.271  -2.817  1.00 49.25      A16S
ATOM   4685  C4  A   A 228     105.524  71.022  -2.876  1.00 49.25      A16S
ATOM   4686  N3  A   A 228     106.039  70.315  -1.859  1.00 49.25      A16S
ATOM   4687  C2  A   A 228     106.493  69.147  -2.286  1.00 49.25      A16S
ATOM   4688  N1  A   A 228     106.492  68.641  -3.518  1.00 49.25      A16S
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ATOM	4689	C6	A	A	228	105.967	69.378	-4.520	1.00	49.25	A16S
ATOM	4690	N6	A	A	228	105.965	68.870	-5.757	1.00	49.25	A16S
ATOM	4691	C5	A	A	228	105.453	70.639	-4.198	1.00	49.25	A16S
ATOM	4692	N7	A	A	228	104.855	71.628	-4.965	1.00	49.25	A16S
ATOM	4693	C8	A	A	228	104.582	72.572	-4.100	1.00	49.25	A16S
ATOM	4694	C2*	A	A	228	106.142	73.795	-1.287	1.00	45.06	A16S
ATOM	4695	O2*	A	A	228	106.203	73.948	0.115	1.00	45.06	A16S
ATOM	4696	C3*	A	A	228	105.975	75.108	-2.039	1.00	45.06	A16S
ATOM	4697	O3*	A	A	228	106.801	76.157	-1.565	1.00	45.06	A16S
ATOM	4698	P	U	A	229	108.156	76.504	-2.358	1.00	40.83	A16S
ATOM	4699	O1P	U	A	229	108.785	77.687	-1.713	1.00	42.44	A16S
ATOM	4700	O2P	U	A	229	107.865	76.521	-3.827	1.00	42.44	A16S
ATOM	4701	O5*	U	A	229	109.094	75.264	-2.044	1.00	40.83	A16S
ATOM	4702	C5*	U	A	229	109.380	74.948	-0.698	1.00	40.83	A16S
ATOM	4703	C4*	U	A	229	110.072	73.632	-0.612	1.00	40.83	A16S
ATOM	4704	O4*	U	A	229	109.195	72.570	-1.046	1.00	40.83	A16S
ATOM	4705	C1*	U	A	229	109.966	71.508	-1.565	1.00	40.83	A16S
ATOM	4706	N1	U	A	229	109.572	71.250	-2.951	1.00	42.44	A16S
ATOM	4707	C6	U	A	229	108.980	72.200	-3.712	1.00	42.44	A16S
ATOM	4708	C2	U	A	229	109.849	70.007	-3.461	1.00	42.44	A16S
ATOM	4709	O2	U	A	229	110.352	69.119	-2.796	1.00	42.44	A16S
ATOM	4710	N3	U	A	229	109.517	69.829	-4.774	1.00	42.44	A16S
ATOM	4711	C4	U	A	229	108.932	70.743	-5.602	1.00	42.44	A16S
ATOM	4712	O4	U	A	229	108.682	70.439	-6.772	1.00	42.44	A16S
ATOM	4713	C5	U	A	229	108.657	71.997	-4.987	1.00	42.44	A16S
ATOM	4714	C2*	U	A	229	111.421	71.945	-1.527	1.00	40.83	A16S
ATOM	4715	O2*	U	A	229	111.993	71.405	-0.356	1.00	40.83	A16S
ATOM	4716	C3*	U	A	229	111.280	73.460	-1.493	1.00	40.83	A16S
ATOM	4717	O3*	U	A	229	112.421	74.113	-0.980	1.00	40.83	A16S
ATOM	4718	P	G	A	230	113.616	74.479	-1.984	1.00	41.39	A16S
ATOM	4719	O1P	G	A	230	114.714	75.107	-1.193	1.00	35.73	A16S
ATOM	4720	O2P	G	A	230	113.021	75.200	-3.137	1.00	35.73	A16S
ATOM	4721	O5*	G	A	230	114.103	73.053	-2.497	1.00	41.39	A16S
ATOM	4722	C5*	G	A	230	114.620	72.094	-1.564	1.00	41.39	A16S
ATOM	4723	C4*	G	A	230	115.070	70.856	-2.278	1.00	41.39	A16S
ATOM	4724	O4*	G	A	230	113.925	70.105	-2.733	1.00	41.39	A16S
ATOM	4725	C1*	G	A	230	114.226	69.483	-3.974	1.00	41.39	A16S
ATOM	4726	N9	G	A	230	113.320	70.024	-4.977	1.00	35.73	A16S
ATOM	4727	C4	G	A	230	112.948	69.445	-6.174	1.00	35.73	A16S
ATOM	4728	N3	G	A	230	113.316	68.229	-6.623	1.00	35.73	A16S
ATOM	4729	C2	G	A	230	112.778	67.961	-7.805	1.00	35.73	A16S
ATOM	4730	N2	G	A	230	112.973	66.774	-8.384	1.00	35.73	A16S
ATOM	4731	N1	G	A	230	111.991	68.831	-8.502	1.00	35.73	A16S
ATOM	4732	C6	G	A	230	111.617	70.091	-8.065	1.00	35.73	A16S
ATOM	4733	O6	G	A	230	110.919	70.811	-8.784	1.00	35.73	A16S
ATOM	4734	C5	G	A	230	112.138	70.373	-6.787	1.00	35.73	A16S
ATOM	4735	N7	G	A	230	111.975	71.490	-5.985	1.00	35.73	A16S
ATOM	4736	C8	G	A	230	112.690	71.239	-4.924	1.00	35.73	A16S
ATOM	4737	C2*	G	A	230	115.668	69.837	-4.333	1.00	41.39	A16S
ATOM	4738	O2*	G	A	230	116.549	68.804	-3.960	1.00	41.39	A16S
ATOM	4739	C3*	G	A	230	115.875	71.111	-3.533	1.00	41.39	A16S
ATOM	4740	O3*	G	A	230	117.237	71.388	-3.276	1.00	41.39	A16S
ATOM	4741	P	G	A	231	118.156	71.921	-4.474	1.00	41.09	A16S
ATOM	4742	O1P	G	A	231	119.518	72.126	-3.916	1.00	34.42	A16S
ATOM	4743	O2P	G	A	231	117.473	73.063	-5.152	1.00	34.42	A16S
ATOM	4744	O5*	G	A	231	118.135	70.655	-5.439	1.00	41.09	A16S
ATOM	4745	C5*	G	A	231	118.386	70.769	-6.841	1.00	41.09	A16S
ATOM	4746	C4*	G	A	231	118.064	69.467	-7.525	1.00	41.09	A16S
ATOM	4747	O4*	G	A	231	116.631	69.262	-7.491	1.00	41.09	A16S
ATOM	4748	C1*	G	A	231	116.200	68.650	-8.695	1.00	41.09	A16S
ATOM	4749	N9	G	A	231	115.287	69.565	-9.369	1.00	34.42	A16S
ATOM	4750	C4	G	A	231	114.677	69.373	-10.584	1.00	34.42	A16S
ATOM	4751	N3	G	A	231	114.777	68.279	-11.355	1.00	34.42	A16S
ATOM	4752	C2	G	A	231	114.113	68.411	-12.485	1.00	34.42	A16S
ATOM	4753	N2	G	A	231	114.098	67.414	-13.369	1.00	34.42	A16S
ATOM	4754	N1	G	A	231	113.422	69.527	-12.833	1.00	34.42	A16S
ATOM	4755	C6	G	A	231	113.323	70.675	-12.064	1.00	34.42	A16S
ATOM	4756	O6	G	A	231	112.721	71.665	-12.504	1.00	34.42	A16S
ATOM	4757	C5	G	A	231	113.999	70.535	-10.838	1.00	34.42	A16S
ATOM	4758	N7	G	A	231	114.133	71.423	-9.785	1.00	34.42	A16S
ATOM	4759	C8	G	A	231	114.902	70.804	-8.936	1.00	34.42	A16S
ATOM	4760	C2*	G	A	231	117.441	68.381	-9.542	1.00	41.09	A16S
ATOM	4761	O2*	G	A	231	117.846	67.050	-9.340	1.00	41.09	A16S
ATOM	4762	C3*	G	A	231	118.415	69.417	-8.997	1.00	41.09	A16S
ATOM	4763	O3*	G	A	231	119.782	69.083	-9.193	1.00	41.09	A16S
ATOM	4764	P	G	A	232	120.592	69.734	-10.425	1.00	37.66	A16S
ATOM	4765	O1P	G	A	232	122.025	69.345	-10.243	1.00	44.40	A16S

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ATOM   4766  O2P G   A 232     120.233  71.179 -10.562  1.00 44.40      A16S
ATOM   4767  O5* G   A 232     120.018  68.962 -11.694  1.00 37.66      A16S
ATOM   4768  C5* G   A 232     120.144  67.542 -11.782  1.00 37.66      A16S
ATOM   4769  C4* G   A 232     119.504  67.030 -13.041  1.00 37.66      A16S
ATOM   4770  O4* G   A 232     118.080  67.229 -12.981  1.00 37.66      A16S
ATOM   4771  C1* G   A 232     117.587  67.526 -14.273  1.00 37.66      A16S
ATOM   4772  N9  G   A 232     116.977  68.845 -14.218  1.00 44.40      A16S
ATOM   4773  C4  G   A 232     116.148  69.407 -15.149  1.00 44.40      A16S
ATOM   4774  N3  G   A 232     115.766  68.845 -16.309  1.00 44.40      A16S
ATOM   4775  C2  G   A 232     114.966  69.635 -16.998  1.00 44.40      A16S
ATOM   4776  N2  G   A 232     114.496  69.243 -18.195  1.00 44.40      A16S
ATOM   4777  N1  G   A 232     114.563  70.872 -16.571  1.00 44.40      A16S
ATOM   4778  C6  G   A 232     114.934  71.462 -15.369  1.00 44.40      A16S
ATOM   4779  O6  G   A 232     114.488  72.583 -15.056  1.00 44.40      A16S
ATOM   4780  C5  G   A 232     115.808  70.632 -14.636  1.00 44.40      A16S
ATOM   4781  N7  G   A 232     116.424  70.844 -13.415  1.00 44.40      A16S
ATOM   4782  C8  G   A 232     117.111  69.761 -13.210  1.00 44.40      A16S
ATOM   4783  C2* G   A 232     118.757  67.461 -15.243  1.00 37.66      A16S
ATOM   4784  O2* G   A 232     118.825  66.162 -15.769  1.00 37.66      A16S
ATOM   4785  C3* G   A 232     119.925  67.721 -14.317  1.00 37.66      A16S
ATOM   4786  O3* G   A 232     121.116  67.181 -14.826  1.00 37.66      A16S
ATOM   4787  P   C   A 233     122.171  68.167 -15.497  1.00 26.59      A16S
ATOM   4788  O1P C   A 233     123.373  67.408 -15.945  1.00 45.62      A16S
ATOM   4789  O2P C   A 233     122.321  69.278 -14.514  1.00 45.62      A16S
ATOM   4790  O5* C   A 233     121.420  68.660 -16.807  1.00 26.59      A16S
ATOM   4791  C5* C   A 233     121.207  67.737 -17.867  1.00 26.59      A16S
ATOM   4792  C4* C   A 233     120.351  68.346 -18.937  1.00 26.59      A16S
ATOM   4793  O4* C   A 233     119.037  68.647 -18.413  1.00 26.59      A16S
ATOM   4794  C1* C   A 233     118.520  69.794 -19.057  1.00 26.59      A16S
ATOM   4795  N1  C   A 233     118.327  70.836 -18.042  1.00 45.62      A16S
ATOM   4796  C6  C   A 233     118.851  70.698 -16.790  1.00 45.62      A16S
ATOM   4797  C2  C   A 233     117.595  71.975 -18.375  1.00 45.62      A16S
ATOM   4798  O2  C   A 233     117.156  72.094 -19.528  1.00 45.62      A16S
ATOM   4799  N3  C   A 233     117.392  72.922 -17.442  1.00 45.62      A16S
ATOM   4800  C4  C   A 233     117.900  72.773 -16.226  1.00 45.62      A16S
ATOM   4801  N4  C   A 233     117.670  73.732 -15.338  1.00 45.62      A16S
ATOM   4802  C5  C   A 233     118.665  71.633 -15.863  1.00 45.62      A16S
ATOM   4803  C2* C   A 233     119.537  70.212 -20.113  1.00 26.59      A16S
ATOM   4804  O2* C   A 233     119.229  69.571 -21.339  1.00 26.59      A16S
ATOM   4805  C3* C   A 233     120.821  69.659 -19.523  1.00 26.59      A16S
ATOM   4806  O3* C   A 233     121.816  69.476 -20.513  1.00 26.59      A16S
ATOM   4807  P   C   A 234     122.943  70.603 -20.702  1.00 38.34      A16S
ATOM   4808  O1P C   A 234     123.975  70.026 -21.590  1.00 42.81      A16S
ATOM   4809  O2P C   A 234     123.335  71.136 -19.364  1.00 42.81      A16S
ATOM   4810  O5* C   A 234     122.179  71.752 -21.491  1.00 38.34      A16S
ATOM   4811  C5* C   A 234     121.505  71.458 -22.721  1.00 38.34      A16S
ATOM   4812  C4* C   A 234     120.738  72.664 -23.198  1.00 38.34      A16S
ATOM   4813  O4* C   A 234     119.606  72.927 -22.334  1.00 38.34      A16S
ATOM   4814  C1* C   A 234     119.372  74.316 -22.266  1.00 38.34      A16S
ATOM   4815  N1  C   A 234     119.535  74.746 -20.879  1.00 42.81      A16S
ATOM   4816  C6  C   A 234     120.076  73.906 -19.954  1.00 42.81      A16S
ATOM   4817  C2  C   A 234     119.153  76.054 -20.516  1.00 42.81      A16S
ATOM   4818  O2  C   A 234     118.630  76.795 -21.368  1.00 42.81      A16S
ATOM   4819  N3  C   A 234     119.367  76.475 -19.253  1.00 42.81      A16S
ATOM   4820  C4  C   A 234     119.934  75.653 -18.367  1.00 42.81      A16S
ATOM   4821  N4  C   A 234     120.177  76.121 -17.141  1.00 42.81      A16S
ATOM   4822  C5  C   A 234     120.294  74.312 -18.701  1.00 42.81      A16S
ATOM   4823  C2* C   A 234     120.406  74.997 -23.157  1.00 38.34      A16S
ATOM   4824  O2* C   A 234     119.865  75.221 -24.443  1.00 38.34      A16S
ATOM   4825  C3* C   A 234     121.510  73.960 -23.179  1.00 38.34      A16S
ATOM   4826  O3* C   A 234     122.368  74.104 -24.286  1.00 38.34      A16S
ATOM   4827  P   C   A 235     123.639  75.070 -24.153  1.00 26.47      A16S
ATOM   4828  O1P C   A 235     124.379  74.898 -25.428  1.00 37.71      A16S
ATOM   4829  O2P C   A 235     124.337  74.814 -22.854  1.00 37.71      A16S
ATOM   4830  O5* C   A 235     122.986  76.525 -24.069  1.00 26.47      A16S
ATOM   4831  C5* C   A 235     122.259  77.054 -25.181  1.00 26.47      A16S
ATOM   4832  C4* C   A 235     121.777  78.443 -24.883  1.00 26.47      A16S
ATOM   4833  O4* C   A 235     120.884  78.386 -23.748  1.00 26.47      A16S
ATOM   4834  C1* C   A 235     120.997  79.576 -22.989  1.00 26.47      A16S
ATOM   4835  N1  C   A 235     121.395  79.218 -21.618  1.00 37.71      A16S
ATOM   4836  C6  C   A 235     121.898  77.982 -21.328  1.00 37.71      A16S
ATOM   4837  C2  C   A 235     121.251  80.169 -20.610  1.00 37.71      A16S
ATOM   4838  O2  C   A 235     120.807  81.282 -20.899  1.00 37.71      A16S
ATOM   4839  N3  C   A 235     121.605  79.859 -19.347  1.00 37.71      A16S
ATOM   4840  C4  C   A 235     122.104  78.657 -19.074  1.00 37.71      A16S
ATOM   4841  N4  C   A 235     122.466  78.405 -17.814  1.00 37.71      A16S
ATOM   4842  C5  C   A 235     122.263  77.663 -20.081  1.00 37.71      A16S
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ATOM   4843  C2* C   A 235     122.016  80.474 -23.688  1.00 26.47      A16S
ATOM   4844  O2* C   A 235     121.342  81.400 -24.516  1.00 26.47      A16S
ATOM   4845  C3* C   A 235     122.828  79.452 -24.469  1.00 26.47      A16S
ATOM   4846  O3* C   A 235     123.507  80.021 -25.571  1.00 26.47      A16S
ATOM   4847  P   G   A 236     124.881  80.828 -25.320  1.00 27.16      A16S
ATOM   4848  O1P G   A 236     125.566  80.955 -26.641  1.00 25.65      A16S
ATOM   4849  O2P G   A 236     125.611  80.240 -24.168  1.00 25.65      A16S
ATOM   4850  O5* G   A 236     124.382  82.262 -24.839  1.00 27.16      A16S
ATOM   4851  C5* G   A 236     123.882  83.233 -25.763  1.00 27.16      A16S
ATOM   4852  C4* G   A 236     123.851  84.575 -25.100  1.00 27.16      A16S
ATOM   4853  O4* G   A 236     122.948  84.523 -23.967  1.00 27.16      A16S
ATOM   4854  C1* G   A 236     123.460  85.308 -22.902  1.00 27.16      A16S
ATOM   4855  N9  G   A 236     123.677  84.437 -21.751  1.00 25.65      A16S
ATOM   4856  C4  G   A 236     123.808  84.802 -20.421  1.00 25.65      A16S
ATOM   4857  N3  G   A 236     123.739  86.049 -19.921  1.00 25.65      A16S
ATOM   4858  C2  G   A 236     123.918  86.067 -18.603  1.00 25.65      A16S
ATOM   4859  N2  G   A 236     123.867  87.222 -17.931  1.00 25.65      A16S
ATOM   4860  N1  G   A 236     124.155  84.965 -17.845  1.00 25.65      A16S
ATOM   4861  C6  G   A 236     124.233  83.676 -18.327  1.00 25.65      A16S
ATOM   4862  O6  G   A 236     124.465  82.739 -17.541  1.00 25.65      A16S
ATOM   4863  C5  G   A 236     124.028  83.631 -19.744  1.00 25.65      A16S
ATOM   4864  N7  G   A 236     124.018  82.551 -20.615  1.00 25.65      A16S
ATOM   4865  C8  G   A 236     123.808  83.076 -21.787  1.00 25.65      A16S
ATOM   4866  C2* G   A 236     124.761  85.939 -23.392  1.00 27.16      A16S
ATOM   4867  O2* G   A 236     124.526  87.236 -23.906  1.00 27.16      A16S
ATOM   4868  C3* G   A 236     125.173  84.972 -24.483  1.00 27.16      A16S
ATOM   4869  O3* G   A 236     126.073  85.546 -25.407  1.00 27.16      A16S
ATOM   4870  P   C   A 237     127.654  85.373 -25.163  1.00 32.12      A16S
ATOM   4871  O1P C   A 237     128.336  86.069 -26.282  1.00 32.75      A16S
ATOM   4872  O2P C   A 237     127.942  83.946 -24.911  1.00 32.75      A16S
ATOM   4873  O5* C   A 237     127.924  86.165 -23.806  1.00 32.12      A16S
ATOM   4874  C5* C   A 237     127.804  87.594 -23.779  1.00 32.12      A16S
ATOM   4875  C4* C   A 237     127.996  88.124 -22.384  1.00 32.12      A16S
ATOM   4876  O4* C   A 237     126.941  87.635 -21.531  1.00 32.12      A16S
ATOM   4877  C1* C   A 237     127.442  87.429 -20.227  1.00 32.12      A16S
ATOM   4878  N1  C   A 237     127.378  85.994 -19.938  1.00 32.75      A16S
ATOM   4879  C6  C   A 237     127.353  85.072 -20.944  1.00 32.75      A16S
ATOM   4880  C2  C   A 237     127.361  85.589 -18.616  1.00 32.75      A16S
ATOM   4881  O2  C   A 237     127.372  86.454 -17.737  1.00 32.75      A16S
ATOM   4882  N3  C   A 237     127.336  84.271 -18.324  1.00 32.75      A16S
ATOM   4883  C4  C   A 237     127.328  83.374 -19.309  1.00 32.75      A16S
ATOM   4884  N4  C   A 237     127.318  82.078 -18.984  1.00 32.75      A16S
ATOM   4885  C5  C   A 237     127.331  83.764 -20.676  1.00 32.75      A16S
ATOM   4886  C2* C   A 237     128.893  87.887 -20.215  1.00 32.12      A16S
ATOM   4887  O2* C   A 237     128.984  89.234 -19.798  1.00 32.12      A16S
ATOM   4888  C3* C   A 237     129.266  87.714 -21.672  1.00 32.12      A16S
ATOM   4889  O3* C   A 237     130.371  88.515 -21.996  1.00 32.12      A16S
ATOM   4890  P   G   A 238     131.825  87.864 -21.940  1.00 25.22      A16S
ATOM   4891  O1P G   A 238     132.806  88.826 -22.498  1.00 32.46      A16S
ATOM   4892  O2P G   A 238     131.712  86.498 -22.532  1.00 32.46      A16S
ATOM   4893  O5* G   A 238     132.108  87.715 -20.386  1.00 25.22      A16S
ATOM   4894  C5* G   A 238     132.196  88.855 -19.562  1.00 25.22      A16S
ATOM   4895  C4* G   A 238     132.432  88.436 -18.151  1.00 25.22      A16S
ATOM   4896  O4* G   A 238     131.284  87.688 -17.701  1.00 25.22      A16S
ATOM   4897  C1* G   A 238     131.690  86.708 -16.764  1.00 25.22      A16S
ATOM   4898  N9  G   A 238     131.248  85.397 -17.227  1.00 32.46      A16S
ATOM   4899  C4  G   A 238     131.218  84.247 -16.479  1.00 32.46      A16S
ATOM   4900  N3  G   A 238     131.576  84.137 -15.184  1.00 32.46      A16S
ATOM   4901  C2  G   A 238     131.443  82.897 -14.739  1.00 32.46      A16S
ATOM   4902  N2  G   A 238     131.749  82.606 -13.471  1.00 32.46      A16S
ATOM   4903  N1  G   A 238     131.003  81.848 -15.500  1.00 32.46      A16S
ATOM   4904  C6  G   A 238     130.639  81.926 -16.834  1.00 32.46      A16S
ATOM   4905  O6  G   A 238     130.283  80.897 -17.436  1.00 32.46      A16S
ATOM   4906  C5  G   A 238     130.762  83.266 -17.331  1.00 32.46      A16S
ATOM   4907  N7  G   A 238     130.497  83.793 -18.590  1.00 32.46      A16S
ATOM   4908  C8  G   A 238     130.796  85.057 -18.478  1.00 32.46      A16S
ATOM   4909  C2* G   A 238     133.209  86.815 -16.611  1.00 25.22      A16S
ATOM   4910  O2* G   A 238     133.520  87.608 -15.478  1.00 25.22      A16S
ATOM   4911  C3* G   A 238     133.603  87.499 -17.912  1.00 25.22      A16S
ATOM   4912  O3* G   A 238     134.836  88.191 -17.775  1.00 25.22      A16S
ATOM   4913  P   U   A 239     136.171  87.543 -18.378  1.00 43.61      A16S
ATOM   4914  O1P U   A 239     137.246  88.543 -18.250  1.00 54.85      A16S
ATOM   4915  O2P U   A 239     135.865  86.957 -19.706  1.00 54.85      A16S
ATOM   4916  O5* U   A 239     136.494  86.372 -17.361  1.00 43.61      A16S
ATOM   4917  C5* U   A 239     136.876  86.669 -16.016  1.00 43.61      A16S
ATOM   4918  C4* U   A 239     137.034  85.395 -15.226  1.00 43.61      A16S
ATOM   4919  O4* U   A 239     135.739  84.773 -15.033  1.00 43.61      A16S
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ATOM   4920  C1*  U   A 239     135.898  83.368 -14.981  1.00 43.61      A16S
ATOM   4921  N1   U   A 239     135.073  82.747 -16.028  1.00 54.85      A16S
ATOM   4922  C6   U   A 239     134.798  83.389 -17.200  1.00 54.85      A16S
ATOM   4923  C2   U   A 239     134.591  81.476 -15.788  1.00 54.85      A16S
ATOM   4924  O2   U   A 239     134.796  80.873 -14.749  1.00 54.85      A16S
ATOM   4925  N3   U   A 239     133.856  80.933 -16.806  1.00 54.85      A16S
ATOM   4926  C4   U   A 239     133.558  81.516 -18.008  1.00 54.85      A16S
ATOM   4927  O4   U   A 239     132.905  80.885 -18.842  1.00 54.85      A16S
ATOM   4928  C5   U   A 239     134.077  82.833 -18.171  1.00 54.85      A16S
ATOM   4929  C2*  U   A 239     137.385  83.060 -15.147  1.00 43.61      A16S
ATOM   4930  O2*  U   A 239     137.965  82.954 -13.864  1.00 43.61      A16S
ATOM   4931  C3*  U   A 239     137.882  84.304 -15.857  1.00 43.61      A16S
ATOM   4932  O3*  U   A 239     139.262  84.500 -15.629  1.00 43.61      A16S
ATOM   4933  P    C   A 240     140.231  84.754 -16.881  1.00 46.77      A16S
ATOM   4934  O1P  C   A 240     140.163  86.228 -17.160  1.00 33.95      A16S
ATOM   4935  O2P  C   A 240     139.878  83.780 -17.953  1.00 33.95      A16S
ATOM   4936  O5*  C   A 240     141.681  84.402 -16.327  1.00 46.77      A16S
ATOM   4937  C5*  C   A 240     142.265  85.217 -15.307  1.00 46.77      A16S
ATOM   4938  C4*  C   A 240     143.612  84.685 -14.897  1.00 46.77      A16S
ATOM   4939  O4*  C   A 240     143.452  83.360 -14.345  1.00 46.77      A16S
ATOM   4940  C1*  C   A 240     144.594  82.582 -14.642  1.00 46.77      A16S
ATOM   4941  N1   C   A 240     144.180  81.476 -15.523  1.00 33.95      A16S
ATOM   4942  C6   C   A 240     143.132  81.621 -16.386  1.00 33.95      A16S
ATOM   4943  C2   C   A 240     144.880  80.280 -15.467  1.00 33.95      A16S
ATOM   4944  O2   C   A 240     145.854  80.194 -14.701  1.00 33.95      A16S
ATOM   4945  N3   C   A 240     144.496  79.254 -16.252  1.00 33.95      A16S
ATOM   4946  C4   C   A 240     143.468  79.403 -17.084  1.00 33.95      A16S
ATOM   4947  N4   C   A 240     143.111  78.362 -17.832  1.00 33.95      A16S
ATOM   4948  C5   C   A 240     142.752  80.621 -17.181  1.00 33.95      A16S
ATOM   4949  C2*  C   A 240     145.590  83.501 -15.334  1.00 46.77      A16S
ATOM   4950  O2*  C   A 240     146.366  84.113 -14.335  1.00 46.77      A16S
ATOM   4951  C3*  C   A 240     144.658  84.507 -15.976  1.00 46.77      A16S
ATOM   4952  O3*  C   A 240     145.323  85.705 -16.287  1.00 46.77      A16S
ATOM   4953  P    C   A 241     145.917  85.913 -17.765  1.00 40.42      A16S
ATOM   4954  O1P  C   A 241     146.341  87.332 -17.786  1.00 45.74      A16S
ATOM   4955  O2P  C   A 241     144.997  85.411 -18.807  1.00 45.74      A16S
ATOM   4956  O5*  C   A 241     147.211  84.989 -17.786  1.00 40.42      A16S
ATOM   4957  C5*  C   A 241     148.330  85.337 -16.964  1.00 40.42      A16S
ATOM   4958  C4*  C   A 241     149.415  84.310 -17.073  1.00 40.42      A16S
ATOM   4959  O4*  C   A 241     148.906  83.044 -16.611  1.00 40.42      A16S
ATOM   4960  C1*  C   A 241     149.485  81.999 -17.362  1.00 40.42      A16S
ATOM   4961  N1   C   A 241     148.405  81.255 -18.034  1.00 45.74      A16S
ATOM   4962  C6   C   A 241     147.134  81.750 -18.086  1.00 45.74      A16S
ATOM   4963  C2   C   A 241     148.699  80.027 -18.604  1.00 45.74      A16S
ATOM   4964  O2   C   A 241     149.864  79.626 -18.573  1.00 45.74      A16S
ATOM   4965  N3   C   A 241     147.715  79.312 -19.180  1.00 45.74      A16S
ATOM   4966  C4   C   A 241     146.476  79.795 -19.214  1.00 45.74      A16S
ATOM   4967  N4   C   A 241     145.534  79.061 -19.792  1.00 45.74      A16S
ATOM   4968  C5   C   A 241     146.148  81.057 -18.659  1.00 45.74      A16S
ATOM   4969  C2*  C   A 241     150.501  82.628 -18.312  1.00 40.42      A16S
ATOM   4970  O2*  C   A 241     151.753  82.621 -17.651  1.00 40.42      A16S
ATOM   4971  C3*  C   A 241     149.942  84.034 -18.463  1.00 40.42      A16S
ATOM   4972  O3*  C   A 241     150.936  84.981 -18.814  1.00 40.42      A16S
ATOM   4973  P    C   A 242     151.066  85.464 -20.343  1.00 38.74      A16S
ATOM   4974  O1P  C   A 242     152.015  86.608 -20.370  1.00 45.33      A16S
ATOM   4975  O2P  C   A 242     149.701  85.628 -20.925  1.00 45.33      A16S
ATOM   4976  O5*  C   A 242     151.762  84.230 -21.059  1.00 38.74      A16S
ATOM   4977  C5*  C   A 242     153.056  83.790 -20.654  1.00 38.74      A16S
ATOM   4978  C4*  C   A 242     153.497  82.670 -21.538  1.00 38.74      A16S
ATOM   4979  O4*  C   A 242     152.839  81.441 -21.153  1.00 38.74      A16S
ATOM   4980  C1*  C   A 242     152.578  80.666 -22.313  1.00 38.74      A16S
ATOM   4981  N1   C   A 242     151.135  80.398 -22.393  1.00 45.33      A16S
ATOM   4982  C6   C   A 242     150.223  81.348 -22.041  1.00 45.33      A16S
ATOM   4983  C2   C   A 242     150.713  79.154 -22.849  1.00 45.33      A16S
ATOM   4984  O2   C   A 242     151.562  78.307 -23.151  1.00 45.33      A16S
ATOM   4985  N3   C   A 242     149.398  78.901 -22.953  1.00 45.33      A16S
ATOM   4986  C4   C   A 242     148.515  79.838 -22.621  1.00 45.33      A16S
ATOM   4987  N4   C   A 242     147.216  79.554 -22.760  1.00 45.33      A16S
ATOM   4988  C5   C   A 242     148.918  81.112 -22.139  1.00 45.33      A16S
ATOM   4989  C2*  C   A 242     153.085  81.442 -23.530  1.00 38.74      A16S
ATOM   4990  O2*  C   A 242     154.372  80.996 -23.905  1.00 38.74      A16S
ATOM   4991  C3*  C   A 242     153.119  82.860 -22.995  1.00 38.74      A16S
ATOM   4992  O3*  C   A 242     154.051  83.650 -23.687  1.00 38.74      A16S
ATOM   4993  P    A   A 243     153.545  84.558 -24.896  1.00 36.02      A16S
ATOM   4994  O1P  A   A 243     154.738  85.260 -25.445  1.00 39.00      A16S
ATOM   4995  O2P  A   A 243     152.364  85.341 -24.436  1.00 39.00      A16S
ATOM   4996  O5*  A   A 243     153.030  83.503 -25.957  1.00 36.02      A16S
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ATOM   4997  C5* A   A 243     153.944  82.610 -26.567  1.00 36.02      A16S
ATOM   4998  C4* A   A 243     153.598  82.451 -28.010  1.00 36.02      A16S
ATOM   4999  O4* A   A 243     152.222  82.063 -28.056  1.00 36.02      A16S
ATOM   5000  C1* A   A 243     151.733  82.324 -29.335  1.00 36.02      A16S
ATOM   5001  N9  A   A 243     150.277  82.317 -29.284  1.00 39.00      A16S
ATOM   5002  C4  A   A 243     149.517  81.290 -29.779  1.00 39.00      A16S
ATOM   5003  N3  A   A 243     149.957  80.191 -30.412  1.00 39.00      A16S
ATOM   5004  C2  A   A 243     148.942  79.402 -30.728  1.00 39.00      A16S
ATOM   5005  N1  A   A 243     147.638  79.572 -30.501  1.00 39.00      A16S
ATOM   5006  C6  A   A 243     147.234  80.689 -29.863  1.00 39.00      A16S
ATOM   5007  N6  A   A 243     145.930  80.859 -29.636  1.00 39.00      A16S
ATOM   5008  C5  A   A 243     148.214  81.606 -29.477  1.00 39.00      A16S
ATOM   5009  N7  A   A 243     148.146  82.824 -28.825  1.00 39.00      A16S
ATOM   5010  C8  A   A 243     149.397  83.207 -28.744  1.00 39.00      A16S
ATOM   5011  C2* A   A 243     152.523  83.493 -29.920  1.00 36.02      A16S
ATOM   5012  O2* A   A 243     152.924  83.046 -31.196  1.00 36.02      A16S
ATOM   5013  C3* A   A 243     153.610  83.717 -28.840  1.00 36.02      A16S
ATOM   5014  O3* A   A 243     154.969  84.167 -29.136  1.00 36.02      A16S
ATOM   5015  P   U   A 244     155.881  83.497 -30.306  1.00 31.50      A16S
ATOM   5016  O1P U   A 244     157.215  84.116 -30.087  1.00 41.31      A16S
ATOM   5017  O2P U   A 244     155.266  83.567 -31.659  1.00 41.31      A16S
ATOM   5018  O5* U   A 244     156.044  81.982 -29.884  1.00 31.50      A16S
ATOM   5019  C5* U   A 244     156.370  81.707 -28.552  1.00 31.50      A16S
ATOM   5020  C4* U   A 244     156.937  80.339 -28.392  1.00 31.50      A16S
ATOM   5021  O4* U   A 244     158.290  80.287 -28.917  1.00 31.50      A16S
ATOM   5022  C1* U   A 244     159.198  80.034 -27.868  1.00 31.50      A16S
ATOM   5023  N1  U   A 244     160.439  80.790 -28.109  1.00 41.31      A16S
ATOM   5024  C6  U   A 244     160.412  82.057 -28.611  1.00 41.31      A16S
ATOM   5025  C2  U   A 244     161.650  80.177 -27.808  1.00 41.31      A16S
ATOM   5026  O2  U   A 244     161.742  79.054 -27.326  1.00 41.31      A16S
ATOM   5027  N3  U   A 244     162.759  80.934 -28.073  1.00 41.31      A16S
ATOM   5028  C4  U   A 244     162.791  82.204 -28.569  1.00 41.31      A16S
ATOM   5029  O4  U   A 244     163.869  82.759 -28.722  1.00 41.31      A16S
ATOM   5030  C5  U   A 244     161.518  82.766 -28.840  1.00 41.31      A16S
ATOM   5031  C2* U   A 244     158.481  80.441 -26.586  1.00 31.50      A16S
ATOM   5032  O2* U   A 244     158.937  79.718 -25.471  1.00 31.50      A16S
ATOM   5033  C3* U   A 244     157.047  80.078 -26.906  1.00 31.50      A16S
ATOM   5034  O3* U   A 244     156.734  78.736 -26.642  1.00 31.50      A16S
ATOM   5035  P   C   A 245     155.210  78.345 -26.354  1.00 27.59      A16S
ATOM   5036  O1P C   A 245     154.546  79.530 -25.772  1.00 47.03      A16S
ATOM   5037  O2P C   A 245     155.189  77.058 -25.612  1.00 47.03      A16S
ATOM   5038  O5* C   A 245     154.586  78.112 -27.798  1.00 27.59      A16S
ATOM   5039  C5* C   A 245     154.904  76.929 -28.521  1.00 27.59      A16S
ATOM   5040  C4* C   A 245     153.653  76.242 -28.988  1.00 27.59      A16S
ATOM   5041  O4* C   A 245     152.686  76.201 -27.907  1.00 27.59      A16S
ATOM   5042  C1* C   A 245     151.378  76.275 -28.449  1.00 27.59      A16S
ATOM   5043  N1  C   A 245     150.675  77.441 -27.886  1.00 47.03      A16S
ATOM   5044  C6  C   A 245     151.337  78.389 -27.159  1.00 47.03      A16S
ATOM   5045  C2  C   A 245     149.307  77.566 -28.120  1.00 47.03      A16S
ATOM   5046  O2  C   A 245     148.734  76.697 -28.783  1.00 47.03      A16S
ATOM   5047  N3  C   A 245     148.645  78.636 -27.629  1.00 47.03      A16S
ATOM   5048  C4  C   A 245     149.305  79.566 -26.942  1.00 47.03      A16S
ATOM   5049  N4  C   A 245     148.626  80.623 -26.515  1.00 47.03      A16S
ATOM   5050  C5  C   A 245     150.696  79.458 -26.674  1.00 47.03      A16S
ATOM   5051  C2* C   A 245     151.506  76.360 -29.971  1.00 27.59      A16S
ATOM   5052  O2* C   A 245     151.390  75.060 -30.516  1.00 27.59      A16S
ATOM   5053  C3* C   A 245     152.916  76.902 -30.137  1.00 27.59      A16S
ATOM   5054  O3* C   A 245     153.463  76.481 -31.373  1.00 27.59      A16S
ATOM   5055  P   A   A 246     153.569  77.519 -32.590  1.00 36.97      A16S
ATOM   5056  O1P A   A 246     154.480  76.921 -33.603  1.00 46.73      A16S
ATOM   5057  O2P A   A 246     153.851  78.855 -32.041  1.00 46.73      A16S
ATOM   5058  O5* A   A 246     152.111  77.594 -33.205  1.00 36.97      A16S
ATOM   5059  C5* A   A 246     151.440  76.401 -33.560  1.00 36.97      A16S
ATOM   5060  C4* A   A 246     150.461  76.662 -34.660  1.00 36.97      A16S
ATOM   5061  O4* A   A 246     149.314  77.386 -34.153  1.00 36.97      A16S
ATOM   5062  C1* A   A 246     148.990  78.391 -35.072  1.00 36.97      A16S
ATOM   5063  N9  A   A 246     148.196  79.412 -34.413  1.00 46.73      A16S
ATOM   5064  C4  A   A 246     146.832  79.439 -34.449  1.00 46.73      A16S
ATOM   5065  N3  A   A 246     146.024  78.566 -35.068  1.00 46.73      A16S
ATOM   5066  C2  A   A 246     144.756  78.901 -34.895  1.00 46.73      A16S
ATOM   5067  N1  A   A 246     144.242  79.932 -34.221  1.00 46.73      A16S
ATOM   5068  C6  A   A 246     145.087  80.791 -33.609  1.00 46.73      A16S
ATOM   5069  N6  A   A 246     144.575  81.825 -32.930  1.00 46.73      A16S
ATOM   5070  C5  A   A 246     146.459  80.543 -33.722  1.00 46.73      A16S
ATOM   5071  N7  A   A 246     147.574  81.206 -33.232  1.00 46.73      A16S
ATOM   5072  C8  A   A 246     148.577  80.495 -33.671  1.00 46.73      A16S
ATOM   5073  C2* A   A 246     150.317  78.808 -35.685  1.00 36.97      A16S
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ATOM   5074  O2*  A   A 246     150.026  79.438 -36.912  1.00 36.97      A16S
ATOM   5075  C3*  A   A 246     150.969  77.443 -35.865  1.00 36.97      A16S
ATOM   5076  O3*  A   A 246     150.326  76.867 -36.974  1.00 36.97      A16S
ATOM   5077  P    G   A 247     151.179  76.193 -38.132  1.00 41.65      A16S
ATOM   5078  O1P  G   A 247     151.728  74.921 -37.581  1.00 34.32      A16S
ATOM   5079  O2P  G   A 247     152.092  77.229 -38.693  1.00 34.32      A16S
ATOM   5080  O5*  G   A 247     150.058  75.852 -39.211  1.00 41.65      A16S
ATOM   5081  C5*  G   A 247     149.153  74.740 -39.010  1.00 41.65      A16S
ATOM   5082  C4*  G   A 247     148.361  74.914 -37.731  1.00 41.65      A16S
ATOM   5083  O4*  G   A 247     147.559  76.125 -37.797  1.00 41.65      A16S
ATOM   5084  C1*  G   A 247     146.313  75.904 -37.156  1.00 41.65      A16S
ATOM   5085  N9   G   A 247     145.255  75.961 -38.163  1.00 34.32      A16S
ATOM   5086  C4   G   A 247     143.909  75.965 -37.923  1.00 34.32      A16S
ATOM   5087  N3   G   A 247     143.327  75.928 -36.714  1.00 34.32      A16S
ATOM   5088  C2   G   A 247     142.014  75.924 -36.799  1.00 34.32      A16S
ATOM   5089  N2   G   A 247     141.288  75.886 -35.680  1.00 34.32      A16S
ATOM   5090  N1   G   A 247     141.322  75.960 -37.986  1.00 34.32      A16S
ATOM   5091  C6   G   A 247     141.907  76.011 -39.249  1.00 34.32      A16S
ATOM   5092  O6   G   A 247     141.196  76.067 -40.268  1.00 34.32      A16S
ATOM   5093  C5   G   A 247     143.314  76.002 -39.165  1.00 34.32      A16S
ATOM   5094  N7   G   A 247     144.266  76.018 -40.166  1.00 34.32      A16S
ATOM   5095  C8   G   A 247     145.402  75.997 -39.526  1.00 34.32      A16S
ATOM   5096  C2*  G   A 247     146.364  74.509 -36.537  1.00 41.65      A16S
ATOM   5097  O2*  G   A 247     146.854  74.574 -35.216  1.00 41.65      A16S
ATOM   5098  C3*  G   A 247     147.350  73.817 -37.454  1.00 41.65      A16S
ATOM   5099  O3*  G   A 247     147.921  72.683 -36.839  1.00 41.65      A16S
ATOM   5100  P    C   A 248     147.271  71.237 -37.099  1.00 43.14      A16S
ATOM   5101  O1P  C   A 248     148.176  70.253 -36.443  1.00 49.83      A16S
ATOM   5102  O2P  C   A 248     146.924  71.089 -38.544  1.00 49.83      A16S
ATOM   5103  O5*  C   A 248     145.911  71.284 -36.281  1.00 43.14      A16S
ATOM   5104  C5*  C   A 248     145.950  71.278 -34.856  1.00 43.14      A16S
ATOM   5105  C4*  C   A 248     144.569  71.138 -34.279  1.00 43.14      A16S
ATOM   5106  O4*  C   A 248     143.795  72.328 -34.555  1.00 43.14      A16S
ATOM   5107  C1*  C   A 248     142.432  71.984 -34.670  1.00 43.14      A16S
ATOM   5108  N1   C   A 248     141.972  72.302 -36.031  1.00 49.83      A16S
ATOM   5109  C6   C   A 248     142.855  72.633 -37.017  1.00 49.83      A16S
ATOM   5110  C2   C   A 248     140.601  72.250 -36.305  1.00 49.83      A16S
ATOM   5111  O2   C   A 248     139.816  71.956 -35.390  1.00 49.83      A16S
ATOM   5112  N3   C   A 248     140.166  72.522 -37.552  1.00 49.83      A16S
ATOM   5113  C4   C   A 248     141.038  72.840 -38.504  1.00 49.83      A16S
ATOM   5114  N4   C   A 248     140.566  73.097 -39.717  1.00 49.83      A16S
ATOM   5115  C5   C   A 248     142.435  72.908 -38.254  1.00 49.83      A16S
ATOM   5116  C2*  C   A 248     142.329  70.489 -34.399  1.00 43.14      A16S
ATOM   5117  O2*  C   A 248     142.165  70.293 -33.013  1.00 43.14      A16S
ATOM   5118  C3*  C   A 248     143.704  70.013 -34.803  1.00 43.14      A16S
ATOM   5119  O3*  C   A 248     143.985  68.757 -34.218  1.00 43.14      A16S
ATOM   5120  P    U   A 249     143.580  67.420 -35.014  1.00 56.93      A16S
ATOM   5121  O1P  U   A 249     143.755  66.289 -34.069  1.00 49.72      A16S
ATOM   5122  O2P  U   A 249     144.287  67.402 -36.318  1.00 49.72      A16S
ATOM   5123  O5*  U   A 249     142.019  67.590 -35.274  1.00 56.93      A16S
ATOM   5124  C5*  U   A 249     141.116  67.586 -34.159  1.00 56.93      A16S
ATOM   5125  C4*  U   A 249     139.688  67.471 -34.617  1.00 56.93      A16S
ATOM   5126  O4*  U   A 249     139.276  68.687 -35.282  1.00 56.93      A16S
ATOM   5127  C1*  U   A 249     138.332  68.379 -36.287  1.00 56.93      A16S
ATOM   5128  N1   U   A 249     138.860  68.847 -37.576  1.00 49.72      A16S
ATOM   5129  C6   U   A 249     140.214  68.897 -37.808  1.00 49.72      A16S
ATOM   5130  C2   U   A 249     137.958  69.228 -38.554  1.00 49.72      A16S
ATOM   5131  O2   U   A 249     136.751  69.214 -38.394  1.00 49.72      A16S
ATOM   5132  N3   U   A 249     138.526  69.632 -39.732  1.00 49.72      A16S
ATOM   5133  C4   U   A 249     139.867  69.702 -40.023  1.00 49.72      A16S
ATOM   5134  O4   U   A 249     140.222  70.133 -41.112  1.00 49.72      A16S
ATOM   5135  C5   U   A 249     140.732  69.300 -38.967  1.00 49.72      A16S
ATOM   5136  C2*  U   A 249     138.087  66.868 -36.243  1.00 56.93      A16S
ATOM   5137  O2*  U   A 249     136.965  66.643 -35.418  1.00 56.93      A16S
ATOM   5138  C3*  U   A 249     139.370  66.360 -35.597  1.00 56.93      A16S
ATOM   5139  O3*  U   A 249     139.190  65.124 -34.906  1.00 56.93      A16S
ATOM   5140  P    A   A 250     139.486  63.736 -35.661  1.00 56.67      A16S
ATOM   5141  O1P  A   A 250     139.723  62.702 -34.619  1.00120.66      A16S
ATOM   5142  O2P  A   A 250     140.507  63.961 -36.714  1.00120.66      A16S
ATOM   5143  O5*  A   A 250     138.099  63.431 -36.382  1.00 56.67      A16S
ATOM   5144  C5*  A   A 250     136.926  63.039 -35.628  1.00 56.67      A16S
ATOM   5145  C4*  A   A 250     136.009  62.208 -36.496  1.00 56.67      A16S
ATOM   5146  O4*  A   A 250     135.403  63.042 -37.505  1.00 56.67      A16S
ATOM   5147  C1*  A   A 250     135.436  62.399 -38.766  1.00 56.67      A16S
ATOM   5148  N9   A   A 250     136.121  63.318 -39.676  1.00120.66      A16S
ATOM   5149  C4   A   A 250     135.681  63.747 -40.906  1.00120.66      A16S
ATOM   5150  N3   A   A 250     134.583  63.341 -41.568  1.00120.66      A16S
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ATOM   5151  C2  A   A 250     134.453  64.013 -42.712  1.00120.66      A16S
ATOM   5152  N1  A   A 250     135.237  64.976 -43.228  1.00120.66      A16S
ATOM   5153  C6  A   A 250     136.333  65.359 -42.535  1.00120.66      A16S
ATOM   5154  N6  A   A 250     137.111  66.323 -43.039  1.00120.66      A16S
ATOM   5155  C5  A   A 250     136.586  64.719 -41.312  1.00120.66      A16S
ATOM   5156  N7  A   A 250     137.603  64.864 -40.380  1.00120.66      A16S
ATOM   5157  C8  A   A 250     137.293  64.003 -39.441  1.00120.66      A16S
ATOM   5158  C2* A   A 250     135.985  60.980 -38.580  1.00 56.67      A16S
ATOM   5159  O2* A   A 250     134.917  60.052 -38.604  1.00 56.67      A16S
ATOM   5160  C3* A   A 250     136.730  61.105 -37.248  1.00 56.67      A16S
ATOM   5161  O3* A   A 250     136.935  59.946 -36.407  1.00 56.67      A16S
ATOM   5162  P   G   A 251     135.701  59.225 -35.627  1.00 70.17      A16S
ATOM   5163  O1P G   A 251     136.301  58.590 -34.409  1.00 46.56      A16S
ATOM   5164  O2P G   A 251     134.929  58.389 -36.594  1.00 46.56      A16S
ATOM   5165  O5* G   A 251     134.737  60.370 -35.069  1.00 70.17      A16S
ATOM   5166  C5* G   A 251     133.801  60.062 -34.009  1.00 70.17      A16S
ATOM   5167  C4* G   A 251     132.909  61.243 -33.697  1.00 70.17      A16S
ATOM   5168  O4* G   A 251     131.975  61.491 -34.775  1.00 70.17      A16S
ATOM   5169  C1* G   A 251     130.648  61.443 -34.288  1.00 70.17      A16S
ATOM   5170  N9  G   A 251     129.821  60.873 -35.345  1.00 46.56      A16S
ATOM   5171  C4  G   A 251     128.961  61.564 -36.168  1.00 46.56      A16S
ATOM   5172  N3  G   A 251     128.654  62.870 -36.076  1.00 46.56      A16S
ATOM   5173  C2  G   A 251     127.844  63.258 -37.041  1.00 46.56      A16S
ATOM   5174  N2  G   A 251     127.414  64.525 -37.078  1.00 46.56      A16S
ATOM   5175  N1  G   A 251     127.392  62.438 -38.031  1.00 46.56      A16S
ATOM   5176  C6  G   A 251     127.700  61.091 -38.150  1.00 46.56      A16S
ATOM   5177  O6  G   A 251     127.259  60.441 -39.101  1.00 46.56      A16S
ATOM   5178  C5  G   A 251     128.539  60.652 -37.103  1.00 46.56      A16S
ATOM   5179  N7  G   A 251     129.059  59.391 -36.834  1.00 46.56      A16S
ATOM   5180  C8  G   A 251     129.800  59.568 -35.773  1.00 46.56      A16S
ATOM   5181  C2* G   A 251     130.701  60.646 -32.989  1.00 70.17      A16S
ATOM   5182  O2* G   A 251     129.637  60.986 -32.123  1.00 70.17      A16S
ATOM   5183  C3* G   A 251     132.063  61.056 -32.441  1.00 70.17      A16S
ATOM   5184  O3* G   A 251     131.949  62.305 -31.766  1.00 70.17      A16S
ATOM   5185  P   U   A 252     133.251  63.230 -31.583  1.00 51.23      A16S
ATOM   5186  O1P U   A 252     134.427  62.325 -31.511  1.00 45.90      A16S
ATOM   5187  O2P U   A 252     133.026  64.205 -30.477  1.00 45.90      A16S
ATOM   5188  O5* U   A 252     133.306  64.031 -32.963  1.00 51.23      A16S
ATOM   5189  C5* U   A 252     134.325  65.005 -33.159  1.00 51.23      A16S
ATOM   5190  C4* U   A 252     134.132  65.770 -34.443  1.00 51.23      A16S
ATOM   5191  O4* U   A 252     134.386  64.951 -35.600  1.00 51.23      A16S
ATOM   5192  C1* U   A 252     133.891  65.626 -36.733  1.00 51.23      A16S
ATOM   5193  N1  U   A 252     133.228  64.672 -37.625  1.00 45.90      A16S
ATOM   5194  C6  U   A 252     132.703  63.494 -37.170  1.00 45.90      A16S
ATOM   5195  C2  U   A 252     133.158  65.017 -38.950  1.00 45.90      A16S
ATOM   5196  O2  U   A 252     133.626  66.050 -39.384  1.00 45.90      A16S
ATOM   5197  N3  U   A 252     132.525  64.109 -39.753  1.00 45.90      A16S
ATOM   5198  C4  U   A 252     131.980  62.909 -39.366  1.00 45.90      A16S
ATOM   5199  O4  U   A 252     131.430  62.196 -40.207  1.00 45.90      A16S
ATOM   5200  C5  U   A 252     132.104  62.621 -37.972  1.00 45.90      A16S
ATOM   5201  C2* U   A 252     132.965  66.737 -36.242  1.00 51.23      A16S
ATOM   5202  O2* U   A 252     133.636  67.969 -36.413  1.00 51.23      A16S
ATOM   5203  C3* U   A 252     132.793  66.387 -34.768  1.00 51.23      A16S
ATOM   5204  O3* U   A 252     132.587  67.572 -34.041  1.00 51.23      A16S
ATOM   5205  P   U   A 253     131.113  67.941 -33.555  1.00 29.58      A16S
ATOM   5206  O1P U   A 253     131.285  68.976 -32.498  1.00 42.56      A16S
ATOM   5207  O2P U   A 253     130.402  66.678 -33.252  1.00 42.56      A16S
ATOM   5208  O5* U   A 253     130.428  68.614 -34.819  1.00 29.58      A16S
ATOM   5209  C5* U   A 253     130.522  70.020 -34.988  1.00 29.58      A16S
ATOM   5210  C4* U   A 253     129.750  70.458 -36.183  1.00 29.58      A16S
ATOM   5211  O4* U   A 253     130.407  69.999 -37.386  1.00 29.58      A16S
ATOM   5212  C1* U   A 253     129.439  69.731 -38.375  1.00 29.58      A16S
ATOM   5213  N1  U   A 253     129.472  68.295 -38.687  1.00 42.56      A16S
ATOM   5214  C6  U   A 253     130.021  67.381 -37.832  1.00 42.56      A16S
ATOM   5215  C2  U   A 253     128.900  67.897 -39.872  1.00 42.56      A16S
ATOM   5216  O2  U   A 253     128.435  68.676 -40.673  1.00 42.56      A16S
ATOM   5217  N3  U   A 253     128.891  66.551 -40.094  1.00 42.56      A16S
ATOM   5218  C4  U   A 253     129.404  65.578 -39.281  1.00 42.56      A16S
ATOM   5219  O4  U   A 253     129.301  64.389 -39.619  1.00 42.56      A16S
ATOM   5220  C5  U   A 253     130.011  66.070 -38.078  1.00 42.56      A16S
ATOM   5221  C2* U   A 253     128.084  70.111 -37.785  1.00 29.58      A16S
ATOM   5222  O2* U   A 253     127.818  71.464 -38.108  1.00 29.58      A16S
ATOM   5223  C3* U   A 253     128.349  69.912 -36.303  1.00 29.58      A16S
ATOM   5224  O3* U   A 253     127.432  70.582 -35.468  1.00 29.58      A16S
ATOM   5225  P   G   A 254     126.037  69.879 -35.111  1.00 36.98      A16S
ATOM   5226  O1P G   A 254     125.290  70.854 -34.306  1.00 42.16      A16S
ATOM   5227  O2P G   A 254     126.274  68.513 -34.580  1.00 42.16      A16S
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ATOM	5228	O5*	G	A	254	125.297	69.789	-36.514	1.00	36.98	A16S
ATOM	5229	C5*	G	A	254	124.773	70.988	-37.088	1.00	36.98	A16S
ATOM	5230	C4*	G	A	254	124.108	70.716	-38.404	1.00	36.98	A16S
ATOM	5231	O4*	G	A	254	125.090	70.224	-39.343	1.00	36.98	A16S
ATOM	5232	C1*	G	A	254	124.486	69.291	-40.207	1.00	36.98	A16S
ATOM	5233	N9	G	A	254	125.045	67.978	-39.918	1.00	42.16	A16S
ATOM	5234	C4	G	A	254	124.892	66.861	-40.690	1.00	42.16	A16S
ATOM	5235	N3	G	A	254	124.256	66.809	-41.876	1.00	42.16	A16S
ATOM	5236	C2	G	A	254	124.229	65.592	-42.364	1.00	42.16	A16S
ATOM	5237	N2	G	A	254	123.649	65.376	-43.547	1.00	42.16	A16S
ATOM	5238	N1	G	A	254	124.772	64.502	-41.727	1.00	42.16	A16S
ATOM	5239	C6	G	A	254	125.428	64.537	-40.500	1.00	42.16	A16S
ATOM	5240	O6	G	A	254	125.859	63.499	-40.002	1.00	42.16	A16S
ATOM	5241	C5	G	A	254	125.484	65.842	-39.982	1.00	42.16	A16S
ATOM	5242	N7	G	A	254	126.049	66.321	-38.809	1.00	42.16	A16S
ATOM	5243	C8	G	A	254	125.771	67.594	-38.815	1.00	42.16	A16S
ATOM	5244	C2*	G	A	254	122.994	69.279	-39.884	1.00	36.98	A16S
ATOM	5245	O2*	G	A	254	122.369	70.259	-40.687	1.00	36.98	A16S
ATOM	5246	C3*	G	A	254	123.003	69.679	-38.417	1.00	36.98	A16S
ATOM	5247	O3*	G	A	254	121.759	70.222	-37.986	1.00	36.98	A16S
ATOM	5248	P	G	A	255	120.579	69.234	-37.531	1.00	39.43	A16S
ATOM	5249	O1P	G	A	255	119.418	70.066	-37.138	1.00	59.40	A16S
ATOM	5250	O2P	G	A	255	121.126	68.238	-36.586	1.00	59.40	A16S
ATOM	5251	O5*	G	A	255	120.207	68.461	-38.864	1.00	39.43	A16S
ATOM	5252	C5*	G	A	255	119.799	69.191	-40.020	1.00	39.43	A16S
ATOM	5253	C4*	G	A	255	119.504	68.248	-41.146	1.00	39.43	A16S
ATOM	5254	O4*	G	A	255	120.711	67.557	-41.542	1.00	39.43	A16S
ATOM	5255	C1*	G	A	255	120.376	66.260	-42.001	1.00	39.43	A16S
ATOM	5256	N9	G	A	255	121.136	65.264	-41.251	1.00	59.40	A16S
ATOM	5257	C4	G	A	255	121.267	63.945	-41.595	1.00	59.40	A16S
ATOM	5258	N3	G	A	255	120.730	63.359	-42.676	1.00	59.40	A16S
ATOM	5259	C2	G	A	255	121.022	62.080	-42.731	1.00	59.40	A16S
ATOM	5260	N2	G	A	255	120.584	61.339	-43.743	1.00	59.40	A16S
ATOM	5261	N1	G	A	255	121.769	61.428	-41.801	1.00	59.40	A16S
ATOM	5262	C6	G	A	255	122.329	62.011	-40.681	1.00	59.40	A16S
ATOM	5263	O6	G	A	255	122.976	61.325	-39.905	1.00	59.40	A16S
ATOM	5264	C5	G	A	255	122.038	63.381	-40.608	1.00	59.40	A16S
ATOM	5265	N7	G	A	255	122.400	64.328	-39.664	1.00	59.40	A16S
ATOM	5266	C8	G	A	255	121.843	65.432	-40.085	1.00	59.40	A16S
ATOM	5267	C2*	G	A	255	118.865	66.078	-41.846	1.00	39.43	A16S
ATOM	5268	O2*	G	A	255	118.216	66.343	-43.074	1.00	39.43	A16S
ATOM	5269	C3*	G	A	255	118.537	67.133	-40.807	1.00	39.43	A16S
ATOM	5270	O3*	G	A	255	117.194	67.560	-40.903	1.00	39.43	A16S
ATOM	5271	P	U	A	256	116.083	66.833	-40.012	1.00	55.37	A16S
ATOM	5272	O1P	U	A	256	114.818	67.609	-40.132	1.00	47.90	A16S
ATOM	5273	O2P	U	A	256	116.679	66.616	-38.670	1.00	47.90	A16S
ATOM	5274	O5*	U	A	256	115.924	65.412	-40.719	1.00	55.37	A16S
ATOM	5275	C5*	U	A	256	115.104	65.262	-41.892	1.00	55.37	A16S
ATOM	5276	C4*	U	A	256	114.989	63.808	-42.270	1.00	55.37	A16S
ATOM	5277	O4*	U	A	256	116.303	63.310	-42.618	1.00	55.37	A16S
ATOM	5278	C1*	U	A	256	116.431	61.964	-42.196	1.00	55.37	A16S
ATOM	5279	N1	U	A	256	117.486	61.907	-41.178	1.00	47.90	A16S
ATOM	5280	C6	U	A	256	117.861	63.028	-40.480	1.00	47.90	A16S
ATOM	5281	C2	U	A	256	118.096	60.688	-40.945	1.00	47.90	A16S
ATOM	5282	O2	U	A	256	117.778	59.666	-41.529	1.00	47.90	A16S
ATOM	5283	N3	U	A	256	119.094	60.707	-40.000	1.00	47.90	A16S
ATOM	5284	C4	U	A	256	119.533	61.796	-39.280	1.00	47.90	A16S
ATOM	5285	O4	U	A	256	120.517	61.683	-38.552	1.00	47.90	A16S
ATOM	5286	C5	U	A	256	118.835	63.015	-39.564	1.00	47.90	A16S
ATOM	5287	C2*	U	A	256	115.086	61.534	-41.624	1.00	55.37	A16S
ATOM	5288	O2*	U	A	256	114.304	60.952	-42.648	1.00	55.37	A16S
ATOM	5289	C3*	U	A	256	114.525	62.868	-41.173	1.00	55.37	A16S
ATOM	5290	O3*	U	A	256	113.129	62.820	-41.024	1.00	55.37	A16S
ATOM	5291	P	G	A	257	112.519	62.441	-39.593	1.00	60.91	A16S
ATOM	5292	O1P	G	A	257	111.052	62.655	-39.682	1.00	70.99	A16S
ATOM	5293	O2P	G	A	257	113.297	63.148	-38.551	1.00	70.99	A16S
ATOM	5294	O5*	G	A	257	112.862	60.892	-39.429	1.00	60.91	A16S
ATOM	5295	C5*	G	A	257	112.239	59.889	-40.260	1.00	60.91	A16S
ATOM	5296	C4*	G	A	257	112.861	58.536	-40.001	1.00	60.91	A16S
ATOM	5297	O4*	G	A	257	114.276	58.615	-40.300	1.00	60.91	A16S
ATOM	5298	C1*	G	A	257	115.008	57.835	-39.373	1.00	60.91	A16S
ATOM	5299	N9	G	A	257	115.896	58.725	-38.632	1.00	70.99	A16S
ATOM	5300	C4	G	A	257	116.990	58.354	-37.890	1.00	70.99	A16S
ATOM	5301	N3	G	A	257	117.433	57.098	-37.712	1.00	70.99	A16S
ATOM	5302	C2	G	A	257	118.497	57.058	-36.941	1.00	70.99	A16S
ATOM	5303	N2	G	A	257	119.059	55.885	-36.652	1.00	70.99	A16S
ATOM	5304	N1	G	A	257	119.086	58.164	-36.392	1.00	70.99	A16S

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ATOM   5305  C6  G   A 257     118.643  59.468 -36.559  1.00 70.99      A16S
ATOM   5306  O6  G   A 257     119.240  60.396 -36.006  1.00 70.99      A16S
ATOM   5307  C5  G   A 257     117.501  59.525 -37.381  1.00 70.99      A16S
ATOM   5308  N7  G   A 257     116.745  60.613 -37.792  1.00 70.99      A16S
ATOM   5309  C8  G   A 257     115.804  60.092 -38.530  1.00 70.99      A16S
ATOM   5310  C2* G   A 257     114.009  57.135 -38.453  1.00 60.91      A16S
ATOM   5311  O2* G   A 257     113.746  55.828 -38.921  1.00 60.91      A16S
ATOM   5312  C3* G   A 257     112.801  58.052 -38.560  1.00 60.91      A16S
ATOM   5313  O3* G   A 257     111.606  57.343 -38.282  1.00 60.91      A16S
ATOM   5314  P   G   A 258     111.077  57.251 -36.770  1.00 56.95      A16S
ATOM   5315  O1P G   A 258     109.842  56.425 -36.839  1.00 81.10      A16S
ATOM   5316  O2P G   A 258     111.009  58.622 -36.202  1.00 81.10      A16S
ATOM   5317  O5* G   A 258     112.206  56.433 -35.990  1.00 56.95      A16S
ATOM   5318  C5* G   A 258     112.274  55.009 -36.122  1.00 56.95      A16S
ATOM   5319  C4* G   A 258     113.514  54.454 -35.459  1.00 56.95      A16S
ATOM   5320  O4* G   A 258     114.689  55.147 -35.942  1.00 56.95      A16S
ATOM   5321  C1* G   A 258     115.708  55.093 -34.958  1.00 56.95      A16S
ATOM   5322  N9  G   A 258     116.127  56.453 -34.640  1.00 81.10      A16S
ATOM   5323  C4  G   A 258     117.205  56.812 -33.868  1.00 81.10      A16S
ATOM   5324  N3  G   A 258     118.068  55.969 -33.277  1.00 81.10      A16S
ATOM   5325  C2  G   A 258     118.988  56.612 -32.596  1.00 81.10      A16S
ATOM   5326  N2  G   A 258     119.917  55.926 -31.952  1.00 81.10      A16S
ATOM   5327  N1  G   A 258     119.060  57.978 -32.496  1.00 81.10      A16S
ATOM   5328  C6  G   A 258     118.176  58.867 -33.096  1.00 81.10      A16S
ATOM   5329  O6  G   A 258     118.316  60.088 -32.938  1.00 81.10      A16S
ATOM   5330  C5  G   A 258     117.188  58.189 -33.835  1.00 81.10      A16S
ATOM   5331  N7  G   A 258     116.131  58.687 -34.581  1.00 81.10      A16S
ATOM   5332  C8  G   A 258     115.529  57.622 -35.039  1.00 81.10      A16S
ATOM   5333  C2* G   A 258     115.143  54.357 -33.745  1.00 56.95      A16S
ATOM   5334  O2* G   A 258     115.536  53.002 -33.812  1.00 56.95      A16S
ATOM   5335  C3* G   A 258     113.644  54.528 -33.949  1.00 56.95      A16S
ATOM   5336  O3* G   A 258     112.957  53.471 -33.308  1.00 56.95      A16S
ATOM   5337  P   G   A 259     112.487  53.650 -31.785  1.00 57.96      A16S
ATOM   5338  O1P G   A 259     111.477  52.605 -31.485  1.00 60.49      A16S
ATOM   5339  O2P G   A 259     112.128  55.080 -31.622  1.00 60.49      A16S
ATOM   5340  O5* G   A 259     113.798  53.357 -30.921  1.00 57.96      A16S
ATOM   5341  C5* G   A 259     114.511  52.112 -31.052  1.00 57.96      A16S
ATOM   5342  C4* G   A 259     115.856  52.180 -30.351  1.00 57.96      A16S
ATOM   5343  O4* G   A 259     116.717  53.153 -30.999  1.00 57.96      A16S
ATOM   5344  C1* G   A 259     117.549  53.775 -30.032  1.00 57.96      A16S
ATOM   5345  N9  G   A 259     117.266  55.206 -30.041  1.00 60.49      A16S
ATOM   5346  C4  G   A 259     117.997  56.183 -29.423  1.00 60.49      A16S
ATOM   5347  N3  G   A 259     119.116  55.994 -28.706  1.00 60.49      A16S
ATOM   5348  C2  G   A 259     119.605  57.131 -28.250  1.00 60.49      A16S
ATOM   5349  N2  G   A 259     120.723  57.131 -27.523  1.00 60.49      A16S
ATOM   5350  N1  G   A 259     119.039  58.357 -28.473  1.00 60.49      A16S
ATOM   5351  C6  G   A 259     117.883  58.578 -29.205  1.00 60.49      A16S
ATOM   5352  O6  G   A 259     117.454  59.729 -29.348  1.00 60.49      A16S
ATOM   5353  C5  G   A 259     117.346  57.362 -29.705  1.00 60.49      A16S
ATOM   5354  N7  G   A 259     116.220  57.129 -30.480  1.00 60.49      A16S
ATOM   5355  C8  G   A 259     116.216  55.839 -30.657  1.00 60.49      A16S
ATOM   5356  C2* G   A 259     117.244  53.141 -28.672  1.00 57.96      A16S
ATOM   5357  O2* G   A 259     118.192  52.139 -28.362  1.00 57.96      A16S
ATOM   5358  C3* G   A 259     115.841  52.590 -28.889  1.00 57.96      A16S
ATOM   5359  O3* G   A 259     115.598  51.493 -28.036  1.00 57.96      A16S
ATOM   5360  P   G   A 260     114.714  51.709 -26.722  1.00 54.32      A16S
ATOM   5361  O1P G   A 260     114.649  50.411 -26.009  1.00 70.48      A16S
ATOM   5362  O2P G   A 260     113.455  52.384 -27.132  1.00 70.48      A16S
ATOM   5363  O5* G   A 260     115.563  52.735 -25.850  1.00 54.32      A16S
ATOM   5364  C5* G   A 260     116.887  52.406 -25.396  1.00 54.32      A16S
ATOM   5365  C4* G   A 260     117.517  53.593 -24.701  1.00 54.32      A16S
ATOM   5366  O4* G   A 260     117.873  54.607 -25.673  1.00 54.32      A16S
ATOM   5367  C1* G   A 260     117.707  55.895 -25.102  1.00 54.32      A16S
ATOM   5368  N9  G   A 260     116.769  56.649 -25.929  1.00 70.48      A16S
ATOM   5369  C4  G   A 260     116.730  58.010 -26.102  1.00 70.48      A16S
ATOM   5370  N3  G   A 260     117.573  58.903 -25.554  1.00 70.48      A16S
ATOM   5371  C2  G   A 260     117.272  60.139 -25.905  1.00 70.48      A16S
ATOM   5372  N2  G   A 260     118.013  61.158 -25.458  1.00 70.48      A16S
ATOM   5373  N1  G   A 260     116.224  60.472 -26.721  1.00 70.48      A16S
ATOM   5374  C6  G   A 260     115.342  59.566 -27.292  1.00 70.48      A16S
ATOM   5375  O6  G   A 260     114.418  59.970 -28.010  1.00 70.48      A16S
ATOM   5376  C5  G   A 260     115.659  58.241 -26.933  1.00 70.48      A16S
ATOM   5377  N7  G   A 260     115.049  57.054 -27.289  1.00 70.48      A16S
ATOM   5378  C8  G   A 260     115.741  56.138 -26.673  1.00 70.48      A16S
ATOM   5379  C2* G   A 260     117.226  55.712 -23.658  1.00 54.32      A16S
ATOM   5380  O2* G   A 260     118.312  55.821 -22.760  1.00 54.32      A16S
ATOM   5381  C3* G   A 260     116.633  54.309 -23.696  1.00 54.32      A16S
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ATOM   5382  O3* G   A 260     116.669  53.682 -22.423  1.00 54.32      A16S
ATOM   5383  P    U   A 261     115.393  53.795 -21.449  1.00 52.32      A16S
ATOM   5384  O1P U   A 261     114.161  53.712 -22.300  1.00 54.32      A16S
ATOM   5385  O2P U   A 261     115.564  52.878 -20.291  1.00 54.32      A16S
ATOM   5386  O5* U   A 261     115.480  55.268 -20.873  1.00 52.32      A16S
ATOM   5387  C5* U   A 261     116.622  55.678 -20.130  1.00 52.32      A16S
ATOM   5388  C4* U   A 261     116.513  57.134 -19.800  1.00 52.32      A16S
ATOM   5389  O4* U   A 261     116.747  57.939 -20.979  1.00 52.32      A16S
ATOM   5390  C1* U   A 261     115.930  59.085 -20.927  1.00 52.32      A16S
ATOM   5391  N1   U   A 261     115.142  59.149 -22.167  1.00 54.32      A16S
ATOM   5392  C6   U   A 261     114.743  58.018 -22.820  1.00 54.32      A16S
ATOM   5393  C2   U   A 261     114.812  60.397 -22.658  1.00 54.32      A16S
ATOM   5394  O2   U   A 261     115.167  61.433 -22.136  1.00 54.32      A16S
ATOM   5395  N3   U   A 261     114.058  60.391 -23.795  1.00 54.32      A16S
ATOM   5396  C4   U   A 261     113.625  59.305 -24.489  1.00 54.32      A16S
ATOM   5397  O4   U   A 261     112.953  59.473 -25.504  1.00 54.32      A16S
ATOM   5398  C5   U   A 261     114.019  58.052 -23.938  1.00 54.32      A16S
ATOM   5399  C2* U   A 261     115.106  59.028 -19.634  1.00 52.32      A16S
ATOM   5400  O2* U   A 261     115.753  59.787 -18.637  1.00 52.32      A16S
ATOM   5401  C3* U   A 261     115.145  57.544 -19.299  1.00 52.32      A16S
ATOM   5402  O3* U   A 261     115.034  57.264 -17.905  1.00 52.32      A16S
ATOM   5403  P    A   A 262     113.602  56.894 -17.280  1.00 34.97      A16S
ATOM   5404  O1P A   A 262     113.017  55.802 -18.101  1.00 65.30      A16S
ATOM   5405  O2P A   A 262     113.752  56.715 -15.812  1.00 65.30      A16S
ATOM   5406  O5* A   A 262     112.757  58.216 -17.534  1.00 34.97      A16S
ATOM   5407  C5* A   A 262     111.382  58.308 -17.149  1.00 34.97      A16S
ATOM   5408  C4* A   A 262     110.934  59.750 -17.185  1.00 34.97      A16S
ATOM   5409  O4* A   A 262     111.475  60.476 -16.055  1.00 34.97      A16S
ATOM   5410  C1* A   A 262     111.833  61.783 -16.458  1.00 34.97      A16S
ATOM   5411  N9   A   A 262     113.273  61.943 -16.226  1.00 65.30      A16S
ATOM   5412  C4   A   A 262     113.964  63.124 -16.083  1.00 65.30      A16S
ATOM   5413  N3   A   A 262     113.478  64.372 -16.167  1.00 65.30      A16S
ATOM   5414  C2   A   A 262     114.432  65.265 -15.925  1.00 65.30      A16S
ATOM   5415  N1   A   A 262     115.718  65.068 -15.631  1.00 65.30      A16S
ATOM   5416  C6   A   A 262     116.177  63.805 -15.560  1.00 65.30      A16S
ATOM   5417  N6   A   A 262     117.461  63.613 -15.260  1.00 65.30      A16S
ATOM   5418  C5   A   A 262     115.268  62.766 -15.802  1.00 65.30      A16S
ATOM   5419  N7   A   A 262     115.410  61.387 -15.806  1.00 65.30      A16S
ATOM   5420  C8   A   A 262     114.204  60.947 -16.069  1.00 65.30      A16S
ATOM   5421  C2* A   A 262     111.396  61.953 -17.915  1.00 34.97      A16S
ATOM   5422  O2* A   A 262     110.095  62.502 -17.943  1.00 34.97      A16S
ATOM   5423  C3* A   A 262     111.399  60.518 -18.402  1.00 34.97      A16S
ATOM   5424  O3* A   A 262     110.510  60.317 -19.469  1.00 34.97      A16S
ATOM   5425  P    A   A 263     111.093  60.149 -20.946  1.00 34.49      A16S
ATOM   5426  O1P A   A 263     109.984  59.852 -21.894  1.00 42.44      A16S
ATOM   5427  O2P A   A 263     112.242  59.219 -20.856  1.00 42.44      A16S
ATOM   5428  O5* A   A 263     111.614  61.610 -21.281  1.00 34.49      A16S
ATOM   5429  C5* A   A 263     110.678  62.666 -21.493  1.00 34.49      A16S
ATOM   5430  C4* A   A 263     111.393  63.966 -21.705  1.00 34.49      A16S
ATOM   5431  O4* A   A 263     112.002  64.381 -20.465  1.00 34.49      A16S
ATOM   5432  C1* A   A 263     113.220  65.036 -20.741  1.00 34.49      A16S
ATOM   5433  N9   A   A 263     114.289  64.304 -20.064  1.00 42.44      A16S
ATOM   5434  C4   A   A 263     115.376  64.843 -19.422  1.00 42.44      A16S
ATOM   5435  N3   A   A 263     115.642  66.139 -19.216  1.00 42.44      A16S
ATOM   5436  C2   A   A 263     116.820  66.282 -18.626  1.00 42.44      A16S
ATOM   5437  N1   A   A 263     117.694  65.352 -18.259  1.00 42.44      A16S
ATOM   5438  C6   A   A 263     117.391  64.065 -18.477  1.00 42.44      A16S
ATOM   5439  N6   A   A 263     118.274  63.142 -18.131  1.00 42.44      A16S
ATOM   5440  C5   A   A 263     116.170  63.776 -19.069  1.00 42.44      A16S
ATOM   5441  N7   A   A 263     115.563  62.582 -19.408  1.00 42.44      A16S
ATOM   5442  C8   A   A 263     114.447  62.949 -19.982  1.00 42.44      A16S
ATOM   5443  C2* A   A 263     113.395  65.098 -22.267  1.00 34.49      A16S
ATOM   5444  O2* A   A 263     112.924  66.339 -22.749  1.00 34.49      A16S
ATOM   5445  C3* A   A 263     112.511  63.951 -22.734  1.00 34.49      A16S
ATOM   5446  O3* A   A 263     111.964  64.176 -24.035  1.00 34.49      A16S
ATOM   5447  P    U   A 264     112.822  63.820 -25.347  1.00 37.06      A16S
ATOM   5448  O1P U   A 264     111.878  63.574 -26.473  1.00 53.62      A16S
ATOM   5449  O2P U   A 264     113.818  62.785 -25.002  1.00 53.62      A16S
ATOM   5450  O5* U   A 264     113.634  65.159 -25.630  1.00 37.06      A16S
ATOM   5451  C5* U   A 264     112.962  66.363 -26.026  1.00 37.06      A16S
ATOM   5452  C4* U   A 264     113.968  67.450 -26.321  1.00 37.06      A16S
ATOM   5453  O4* U   A 264     114.565  67.919 -25.090  1.00 37.06      A16S
ATOM   5454  C1* U   A 264     115.933  68.216 -25.300  1.00 37.06      A16S
ATOM   5455  N1   U   A 264     116.737  67.316 -24.454  1.00 53.62      A16S
ATOM   5456  C6   U   A 264     116.186  66.199 -23.884  1.00 53.62      A16S
ATOM   5457  C2   U   A 264     118.074  67.612 -24.262  1.00 53.62      A16S
ATOM   5458  O2   U   A 264     118.605  68.609 -24.697  1.00 53.62      A16S
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ATOM   5459  N3  U   A 264     118.771  66.693 -23.532  1.00 53.62      A16S
ATOM   5460  C4  U   A 264     118.285  65.544 -22.973  1.00 53.62      A16S
ATOM   5461  O4  U   A 264     119.070  64.747 -22.467  1.00 53.62      A16S
ATOM   5462  C5  U   A 264     116.893  65.331 -23.169  1.00 53.62      A16S
ATOM   5463  C2* U   A 264     116.206  68.047 -26.796  1.00 37.06      A16S
ATOM   5464  O2* U   A 264     115.987  69.292 -27.425  1.00 37.06      A16S
ATOM   5465  C3* U   A 264     115.139  67.041 -27.193  1.00 37.06      A16S
ATOM   5466  O3* U   A 264     114.793  67.144 -28.566  1.00 37.06      A16S
ATOM   5467  P   G   A 265     115.281  66.011 -29.594  1.00 36.71      A16S
ATOM   5468  O1P G   A 265     114.832  66.401 -30.956  1.00 56.45      A16S
ATOM   5469  O2P G   A 265     114.919  64.670 -29.053  1.00 56.45      A16S
ATOM   5470  O5* G   A 265     116.856  66.172 -29.552  1.00 36.71      A16S
ATOM   5471  C5* G   A 265     117.451  67.437 -29.825  1.00 36.71      A16S
ATOM   5472  C4* G   A 265     118.903  67.408 -29.466  1.00 36.71      A16S
ATOM   5473  O4* G   A 265     119.047  67.324 -28.027  1.00 36.71      A16S
ATOM   5474  C1* G   A 265     120.277  66.694 -27.721  1.00 36.71      A16S
ATOM   5475  N9  G   A 265     120.058  65.581 -26.808  1.00 56.45      A16S
ATOM   5476  C4  G   A 265     120.981  65.107 -25.923  1.00 56.45      A16S
ATOM   5477  N3  G   A 265     122.204  65.623 -25.722  1.00 56.45      A16S
ATOM   5478  C2  G   A 265     122.889  64.929 -24.852  1.00 56.45      A16S
ATOM   5479  N2  G   A 265     124.133  65.299 -24.559  1.00 56.45      A16S
ATOM   5480  N1  G   A 265     122.411  63.818 -24.213  1.00 56.45      A16S
ATOM   5481  C6  G   A 265     121.151  63.269 -24.402  1.00 56.45      A16S
ATOM   5482  O6  G   A 265     120.823  62.249 -23.781  1.00 56.45      A16S
ATOM   5483  C5  G   A 265     120.405  64.007 -25.343  1.00 56.45      A16S
ATOM   5484  N7  G   A 265     119.124  63.811 -25.828  1.00 56.45      A16S
ATOM   5485  C8  G   A 265     118.956  64.778 -26.688  1.00 56.45      A16S
ATOM   5486  C2* G   A 265     120.888  66.187 -29.027  1.00 36.71      A16S
ATOM   5487  O2* G   A 265     121.959  67.029 -29.411  1.00 36.71      A16S
ATOM   5488  C3* G   A 265     119.678  66.200 -29.956  1.00 36.71      A16S
ATOM   5489  O3* G   A 265     120.017  66.261 -31.328  1.00 36.71      A16S
ATOM   5490  P   G   A 266     120.475  64.924 -32.082  1.00 50.20      A16S
ATOM   5491  O1P G   A 266     120.816  65.311 -33.479  1.00 72.05      A16S
ATOM   5492  O2P G   A 266     119.455  63.873 -31.840  1.00 72.05      A16S
ATOM   5493  O5* G   A 266     121.813  64.529 -31.313  1.00 50.20      A16S
ATOM   5494  C5* G   A 266     122.675  63.498 -31.811  1.00 50.20      A16S
ATOM   5495  C4* G   A 266     123.984  63.467 -31.037  1.00 50.20      A16S
ATOM   5496  O4* G   A 266     124.789  62.407 -31.611  1.00 50.20      A16S
ATOM   5497  C1* G   A 266     125.803  62.964 -32.395  1.00 50.20      A16S
ATOM   5498  N9  G   A 266     125.270  62.997 -33.749  1.00 72.05      A16S
ATOM   5499  C4  G   A 266     125.308  61.959 -34.623  1.00 72.05      A16S
ATOM   5500  N3  G   A 266     125.873  60.762 -34.390  1.00 72.05      A16S
ATOM   5501  C2  G   A 266     125.747  59.959 -35.426  1.00 72.05      A16S
ATOM   5502  N2  G   A 266     126.253  58.714 -35.377  1.00 72.05      A16S
ATOM   5503  N1  G   A 266     125.117  60.313 -36.595  1.00 72.05      A16S
ATOM   5504  C6  G   A 266     124.539  61.552 -36.846  1.00 72.05      A16S
ATOM   5505  O6  G   A 266     124.022  61.782 -37.929  1.00 72.05      A16S
ATOM   5506  C5  G   A 266     124.655  62.405 -35.753  1.00 72.05      A16S
ATOM   5507  N7  G   A 266     124.211  63.705 -35.589  1.00 72.05      A16S
ATOM   5508  C8  G   A 266     124.605  64.023 -34.387  1.00 72.05      A16S
ATOM   5509  C2* G   A 266     126.177  64.282 -31.712  1.00 50.20      A16S
ATOM   5510  O2* G   A 266     127.177  63.989 -30.759  1.00 50.20      A16S
ATOM   5511  C3* G   A 266     124.826  64.732 -31.144  1.00 50.20      A16S
ATOM   5512  O3* G   A 266     124.692  65.550 -29.963  1.00 50.20      A16S
ATOM   5513  P   C   A 267     125.754  65.483 -28.734  1.00 45.92      A16S
ATOM   5514  O1P C   A 267     125.198  66.460 -27.762  1.00 45.24      A16S
ATOM   5515  O2P C   A 267     127.188  65.579 -29.102  1.00 45.24      A16S
ATOM   5516  O5* C   A 267     125.557  64.073 -28.040  1.00 45.92      A16S
ATOM   5517  C5* C   A 267     126.248  63.819 -26.812  1.00 45.92      A16S
ATOM   5518  C4* C   A 267     125.831  62.506 -26.223  1.00 45.92      A16S
ATOM   5519  O4* C   A 267     124.460  62.558 -25.773  1.00 45.92      A16S
ATOM   5520  C1* C   A 267     123.879  61.278 -25.917  1.00 45.92      A16S
ATOM   5521  N1  C   A 267     122.719  61.384 -26.807  1.00 45.24      A16S
ATOM   5522  C6  C   A 267     122.582  62.427 -27.675  1.00 45.24      A16S
ATOM   5523  C2  C   A 267     121.759  60.391 -26.751  1.00 45.24      A16S
ATOM   5524  O2  C   A 267     121.899  59.473 -25.933  1.00 45.24      A16S
ATOM   5525  N3  C   A 267     120.699  60.449 -27.575  1.00 45.24      A16S
ATOM   5526  C4  C   A 267     120.574  61.461 -28.421  1.00 45.24      A16S
ATOM   5527  N4  C   A 267     119.517  61.466 -29.221  1.00 45.24      A16S
ATOM   5528  C5  C   A 267     121.529  62.507 -28.487  1.00 45.24      A16S
ATOM   5529  C2* C   A 267     124.939  60.335 -26.484  1.00 45.92      A16S
ATOM   5530  O2* C   A 267     125.583  59.668 -25.422  1.00 45.92      A16S
ATOM   5531  C3* C   A 267     125.886  61.311 -27.156  1.00 45.92      A16S
ATOM   5532  O3* C   A 267     127.200  60.793 -27.209  1.00 45.92      A16S
ATOM   5533  P   C   A 268     127.806  60.320 -28.611  1.00 55.08      A16S
ATOM   5534  O1P C   A 268     129.222  60.042 -28.301  1.00 44.74      A16S
ATOM   5535  O2P C   A 268     127.476  61.288 -29.680  1.00 44.74      A16S
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ATOM   5536  O5* C   A 268     127.047  58.948 -28.884  1.00 55.08      A16S
ATOM   5537  C5* C   A 268     127.266  57.811 -28.024  1.00 55.08      A16S
ATOM   5538  C4* C   A 268     126.356  56.676 -28.410  1.00 55.08      A16S
ATOM   5539  O4* C   A 268     124.995  57.049 -28.103  1.00 55.08      A16S
ATOM   5540  C1* C   A 268     124.127  56.516 -29.084  1.00 55.08      A16S
ATOM   5541  N1  C   A 268     123.387  57.615 -29.728  1.00 44.74      A16S
ATOM   5542  C6  C   A 268     123.705  58.925 -29.500  1.00 44.74      A16S
ATOM   5543  C2  C   A 268     122.343  57.287 -30.592  1.00 44.74      A16S
ATOM   5544  O2  C   A 268     122.080  56.092 -30.777  1.00 44.74      A16S
ATOM   5545  N3  C   A 268     121.652  58.272 -31.205  1.00 44.74      A16S
ATOM   5546  C4  C   A 268     121.979  59.544 -30.991  1.00 44.74      A16S
ATOM   5547  N4  C   A 268     121.291  60.481 -31.646  1.00 44.74      A16S
ATOM   5548  C5  C   A 268     123.032  59.911 -30.105  1.00 44.74      A16S
ATOM   5549  C2* C   A 268     124.965  55.721 -30.086  1.00 55.08      A16S
ATOM   5550  O2* C   A 268     124.912  54.343 -29.775  1.00 55.08      A16S
ATOM   5551  C3* C   A 268     126.344  56.328 -29.889  1.00 55.08      A16S
ATOM   5552  O3* C   A 268     127.360  55.406 -30.239  1.00 55.08      A16S
ATOM   5553  P   C   A 269     127.802  55.265 -31.774  1.00 70.58      A16S
ATOM   5554  O1P C   A 269     128.854  54.225 -31.819  1.00 60.73      A16S
ATOM   5555  O2P C   A 269     128.087  56.619 -32.310  1.00 60.73      A16S
ATOM   5556  O5* C   A 269     126.516  54.685 -32.511  1.00 70.58      A16S
ATOM   5557  C5* C   A 269     126.167  53.300 -32.379  1.00 70.58      A16S
ATOM   5558  C4* C   A 269     125.070  52.936 -33.343  1.00 70.58      A16S
ATOM   5559  O4* C   A 269     123.864  53.667 -33.007  1.00 70.58      A16S
ATOM   5560  C1* C   A 269     123.119  53.907 -34.189  1.00 70.58      A16S
ATOM   5561  N1  C   A 269     122.819  55.345 -34.313  1.00 60.73      A16S
ATOM   5562  C6  C   A 269     123.552  56.293 -33.654  1.00 60.73      A16S
ATOM   5563  C2  C   A 269     121.753  55.724 -35.134  1.00 60.73      A16S
ATOM   5564  O2  C   A 269     121.118  54.846 -35.730  1.00 60.73      A16S
ATOM   5565  N3  C   A 269     121.444  57.031 -35.262  1.00 60.73      A16S
ATOM   5566  C4  C   A 269     122.158  57.950 -34.614  1.00 60.73      A16S
ATOM   5567  N4  C   A 269     121.808  59.233 -34.767  1.00 60.73      A16S
ATOM   5568  C5  C   A 269     123.262  57.595 -33.777  1.00 60.73      A16S
ATOM   5569  C2* C   A 269     123.912  53.365 -35.379  1.00 70.58      A16S
ATOM   5570  O2* C   A 269     123.380  52.119 -35.783  1.00 70.58      A16S
ATOM   5571  C3* C   A 269     125.322  53.267 -34.806  1.00 70.58      A16S
ATOM   5572  O3* C   A 269     126.072  52.256 -35.470  1.00 70.58      A16S
ATOM   5573  P   A   A 270     126.812  52.597 -36.857  1.00 70.92      A16S
ATOM   5574  O1P A   A 270     127.710  51.458 -37.157  1.00 75.50      A16S
ATOM   5575  O2P A   A 270     127.379  53.970 -36.735  1.00 75.50      A16S
ATOM   5576  O5* A   A 270     125.648  52.632 -37.951  1.00 70.92      A16S
ATOM   5577  C5* A   A 270     125.099  51.416 -38.486  1.00 70.92      A16S
ATOM   5578  C4* A   A 270     123.956  51.716 -39.434  1.00 70.92      A16S
ATOM   5579  O4* A   A 270     122.888  52.387 -38.718  1.00 70.92      A16S
ATOM   5580  C1* A   A 270     122.253  53.324 -39.572  1.00 70.92      A16S
ATOM   5581  N9  A   A 270     122.428  54.655 -38.987  1.00 75.50      A16S
ATOM   5582  C4  A   A 270     121.650  55.766 -39.203  1.00 75.50      A16S
ATOM   5583  N3  A   A 270     120.580  55.870 -40.007  1.00 75.50      A16S
ATOM   5584  C2  A   A 270     120.067  57.094 -39.946  1.00 75.50      A16S
ATOM   5585  N1  A   A 270     120.474  58.147 -39.230  1.00 75.50      A16S
ATOM   5586  C6  A   A 270     121.561  58.008 -38.442  1.00 75.50      A16S
ATOM   5587  N6  A   A 270     121.984  59.059 -37.737  1.00 75.50      A16S
ATOM   5588  C5  A   A 270     122.189  56.760 -38.413  1.00 75.50      A16S
ATOM   5589  N7  A   A 270     123.295  56.295 -37.723  1.00 75.50      A16S
ATOM   5590  C8  A   A 270     123.396  55.048 -38.100  1.00 75.50      A16S
ATOM   5591  C2* A   A 270     122.886  53.194 -40.957  1.00 70.92      A16S
ATOM   5592  O2* A   A 270     122.112  52.315 -41.756  1.00 70.92      A16S
ATOM   5593  C3* A   A 270     124.256  52.625 -40.616  1.00 70.92      A16S
ATOM   5594  O3* A   A 270     124.796  51.909 -41.715  1.00 70.92      A16S
ATOM   5595  P   C   A 271     125.823  52.643 -42.704  1.00 71.84      A16S
ATOM   5596  O1P C   A 271     126.408  51.609 -43.596  1.00 73.76      A16S
ATOM   5597  O2P C   A 271     126.722  53.457 -41.854  1.00 73.76      A16S
ATOM   5598  O5* C   A 271     124.907  53.625 -43.566  1.00 71.84      A16S
ATOM   5599  C5* C   A 271     123.944  53.099 -44.496  1.00 71.84      A16S
ATOM   5600  C4* C   A 271     122.989  54.178 -44.947  1.00 71.84      A16S
ATOM   5601  O4* C   A 271     122.192  54.638 -43.822  1.00 71.84      A16S
ATOM   5602  C1* C   A 271     121.915  56.024 -43.963  1.00 71.84      A16S
ATOM   5603  N1  C   A 271     122.556  56.751 -42.852  1.00 73.76      A16S
ATOM   5604  C6  C   A 271     123.501  56.148 -42.069  1.00 73.76      A16S
ATOM   5605  C2  C   A 271     122.204  58.091 -42.624  1.00 73.76      A16S
ATOM   5606  O2  C   A 271     121.324  58.610 -43.323  1.00 73.76      A16S
ATOM   5607  N3  C   A 271     122.831  58.782 -41.647  1.00 73.76      A16S
ATOM   5608  C4  C   A 271     123.762  58.184 -40.900  1.00 73.76      A16S
ATOM   5609  N4  C   A 271     124.359  58.907 -39.944  1.00 73.76      A16S
ATOM   5610  C5  C   A 271     124.123  56.819 -41.095  1.00 73.76      A16S
ATOM   5611  C2* C   A 271     122.512  56.470 -45.297  1.00 71.84      A16S
ATOM   5612  O2* C   A 271     121.537  56.413 -46.317  1.00 71.84      A16S
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ATOM   5613  C3*  C   A 271     123.615  55.446 -45.492  1.00 71.84      A16S
ATOM   5614  O3*  C   A 271     124.002  55.357 -46.843  1.00 71.84      A16S
ATOM   5615  P    C   A 272     125.244  56.235 -47.347  1.00 68.26      A16S
ATOM   5616  O1P  C   A 272     125.558  55.851 -48.751  1.00 54.19      A16S
ATOM   5617  O2P  C   A 272     126.295  56.114 -46.299  1.00 54.19      A16S
ATOM   5618  O5*  C   A 272     124.681  57.725 -47.346  1.00 68.26      A16S
ATOM   5619  C5*  C   A 272     123.598  58.076 -48.214  1.00 68.26      A16S
ATOM   5620  C4*  C   A 272     123.210  59.522 -48.039  1.00 68.26      A16S
ATOM   5621  O4*  C   A 272     122.709  59.735 -46.698  1.00 68.26      A16S
ATOM   5622  C1*  C   A 272     123.011  61.057 -46.285  1.00 68.26      A16S
ATOM   5623  N1   C   A 272     123.858  60.999 -45.077  1.00 54.19      A16S
ATOM   5624  C6   C   A 272     124.536  59.861 -44.749  1.00 54.19      A16S
ATOM   5625  C2   C   A 272     123.966  62.140 -44.271  1.00 54.19      A16S
ATOM   5626  O2   C   A 272     123.320  63.154 -44.575  1.00 54.19      A16S
ATOM   5627  N3   C   A 272     124.765  62.105 -43.183  1.00 54.19      A16S
ATOM   5628  C4   C   A 272     125.429  60.991 -42.881  1.00 54.19      A16S
ATOM   5629  N4   C   A 272     126.211  61.000 -41.808  1.00 54.19      A16S
ATOM   5630  C5   C   A 272     125.324  59.816 -43.670  1.00 54.19      A16S
ATOM   5631  C2*  C   A 272     123.717  61.752 -47.448  1.00 68.26      A16S
ATOM   5632  O2*  C   A 272     122.758  62.455 -48.214  1.00 68.26      A16S
ATOM   5633  C3*  C   A 272     124.299  60.566 -48.202  1.00 68.26      A16S
ATOM   5634  O3*  C   A 272     124.552  60.886 -49.559  1.00 68.26      A16S
ATOM   5635  P    A   A 273     126.009  61.420 -49.987  1.00 82.99      A16S
ATOM   5636  O1P  A   A 273     126.039  61.527 -51.471  1.00 68.94      A16S
ATOM   5637  O2P  A   A 273     127.029  60.585 -49.287  1.00 68.94      A16S
ATOM   5638  O5*  A   A 273     126.050  62.898 -49.399  1.00 82.99      A16S
ATOM   5639  C5*  A   A 273     125.117  63.878 -49.867  1.00 82.99      A16S
ATOM   5640  C4*  A   A 273     125.201  65.126 -49.035  1.00 82.99      A16S
ATOM   5641  O4*  A   A 273     124.828  64.833 -47.670  1.00 82.99      A16S
ATOM   5642  C1*  A   A 273     125.557  65.667 -46.791  1.00 82.99      A16S
ATOM   5643  N9   A   A 273     126.277  64.827 -45.831  1.00 68.94      A16S
ATOM   5644  C4   A   A 273     126.813  65.245 -44.633  1.00 68.94      A16S
ATOM   5645  N3   A   A 273     126.806  66.490 -44.123  1.00 68.94      A16S
ATOM   5646  C2   A   A 273     127.407  66.514 -42.938  1.00 68.94      A16S
ATOM   5647  N1   A   A 273     127.966  65.515 -42.254  1.00 68.94      A16S
ATOM   5648  C6   A   A 273     127.954  64.278 -42.788  1.00 68.94      A16S
ATOM   5649  N6   A   A 273     128.500  63.281 -42.091  1.00 68.94      A16S
ATOM   5650  C5   A   A 273     127.356  64.117 -44.049  1.00 68.94      A16S
ATOM   5651  N7   A   A 273     127.182  63.010 -44.867  1.00 68.94      A16S
ATOM   5652  C8   A   A 273     126.544  63.483 -45.910  1.00 68.94      A16S
ATOM   5653  C2*  A   A 273     126.462  66.560 -47.638  1.00 82.99      A16S
ATOM   5654  O2*  A   A 273     125.810  67.799 -47.837  1.00 82.99      A16S
ATOM   5655  C3*  A   A 273     126.571  65.758 -48.926  1.00 82.99      A16S
ATOM   5656  O3*  A   A 273     126.807  66.595 -50.038  1.00 82.99      A16S
ATOM   5657  P    A   A 274     128.295  66.742 -50.620  1.00 70.16      A16S
ATOM   5658  O1P  A   A 274     128.132  67.575 -51.847  1.00 56.22      A16S
ATOM   5659  O2P  A   A 274     128.945  65.402 -50.714  1.00 56.22      A16S
ATOM   5660  O5*  A   A 274     129.082  67.564 -49.500  1.00 70.16      A16S
ATOM   5661  C5*  A   A 274     128.598  68.836 -49.026  1.00 70.16      A16S
ATOM   5662  C4*  A   A 274     129.461  69.330 -47.890  1.00 70.16      A16S
ATOM   5663  O4*  A   A 274     129.365  68.403 -46.779  1.00 70.16      A16S
ATOM   5664  C1*  A   A 274     130.656  68.045 -46.364  1.00 70.16      A16S
ATOM   5665  N9   A   A 274     130.632  66.690 -45.823  1.00 56.22      A16S
ATOM   5666  C4   A   A 274     130.928  66.370 -44.523  1.00 56.22      A16S
ATOM   5667  N3   A   A 274     131.250  67.213 -43.533  1.00 56.22      A16S
ATOM   5668  C2   A   A 274     131.478  66.548 -42.409  1.00 56.22      A16S
ATOM   5669  N1   A   A 274     131.437  65.236 -42.180  1.00 56.22      A16S
ATOM   5670  C6   A   A 274     131.124  64.418 -43.199  1.00 56.22      A16S
ATOM   5671  N6   A   A 274     131.115  63.113 -42.974  1.00 56.22      A16S
ATOM   5672  C5   A   A 274     130.838  64.998 -44.440  1.00 56.22      A16S
ATOM   5673  N7   A   A 274     130.466  64.456 -45.661  1.00 56.22      A16S
ATOM   5674  C8   A   A 274     130.353  65.502 -46.447  1.00 56.22      A16S
ATOM   5675  C2*  A   A 274     131.554  68.235 -47.580  1.00 70.16      A16S
ATOM   5676  O2*  A   A 274     132.887  68.448 -47.164  1.00 70.16      A16S
ATOM   5677  C3*  A   A 274     130.949  69.481 -48.207  1.00 70.16      A16S
ATOM   5678  O3*  A   A 274     131.518  70.590 -47.511  1.00 70.16      A16S
ATOM   5679  P    G   A 275     131.002  72.088 -47.802  1.00 39.01      A16S
ATOM   5680  O1P  G   A 275     130.283  72.140 -49.111  1.00 46.74      A16S
ATOM   5681  O2P  G   A 275     132.158  73.010 -47.555  1.00 46.74      A16S
ATOM   5682  O5*  G   A 275     129.886  72.318 -46.685  1.00 39.01      A16S
ATOM   5683  C5*  G   A 275     130.221  72.965 -45.454  1.00 39.01      A16S
ATOM   5684  C4*  G   A 275     129.660  72.213 -44.275  1.00 39.01      A16S
ATOM   5685  O4*  G   A 275     130.146  70.849 -44.246  1.00 39.01      A16S
ATOM   5686  C1*  G   A 275     130.533  70.496 -42.931  1.00 39.01      A16S
ATOM   5687  N9   G   A 275     131.977  70.277 -42.953  1.00 46.74      A16S
ATOM   5688  C4   G   A 275     132.811  70.031 -41.886  1.00 46.74      A16S
ATOM   5689  N3   G   A 275     132.438  69.898 -40.597  1.00 46.74      A16S
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ATOM   5690  C2  G   A 275     133.481  69.709 -39.803  1.00 46.74      A16S
ATOM   5691  N2  G   A 275     133.301  69.557 -38.487  1.00 46.74      A16S
ATOM   5692  N1  G   A 275     134.778  69.658 -40.242  1.00 46.74      A16S
ATOM   5693  C6  G   A 275     135.177  69.795 -41.564  1.00 46.74      A16S
ATOM   5694  O6  G   A 275     136.375  69.752 -41.856  1.00 46.74      A16S
ATOM   5695  C5  G   A 275     134.081  69.986 -42.419  1.00 46.74      A16S
ATOM   5696  N7  G   A 275     134.046  70.157 -43.791  1.00 46.74      A16S
ATOM   5697  C8  G   A 275     132.782  70.318 -44.063  1.00 46.74      A16S
ATOM   5698  C2* G   A 275     130.126  71.654 -42.021  1.00 39.01      A16S
ATOM   5699  O2* G   A 275     128.836  71.427 -41.505  1.00 39.01      A16S
ATOM   5700  C3* G   A 275     130.155  72.818 -42.989  1.00 39.01      A16S
ATOM   5701  O3* G   A 275     129.348  73.912 -42.636  1.00 39.01      A16S
ATOM   5702  P   G   A 276     130.047  75.223 -42.065  1.00 31.90      A16S
ATOM   5703  O1P G   A 276     129.074  76.342 -41.941  1.00 43.60      A16S
ATOM   5704  O2P G   A 276     131.283  75.425 -42.854  1.00 43.60      A16S
ATOM   5705  O5* G   A 276     130.484  74.737 -40.617  1.00 31.90      A16S
ATOM   5706  C5* G   A 276     129.533  74.087 -39.753  1.00 31.90      A16S
ATOM   5707  C4* G   A 276     130.171  73.761 -38.435  1.00 31.90      A16S
ATOM   5708  O4* G   A 276     130.966  72.564 -38.575  1.00 31.90      A16S
ATOM   5709  C1* G   A 276     132.160  72.698 -37.819  1.00 31.90      A16S
ATOM   5710  N9  G   A 276     133.286  72.722 -38.751  1.00 43.60      A16S
ATOM   5711  C4  G   A 276     134.625  72.671 -38.434  1.00 43.60      A16S
ATOM   5712  N3  G   A 276     135.144  72.595 -37.198  1.00 43.60      A16S
ATOM   5713  C2  G   A 276     136.464  72.583 -37.221  1.00 43.60      A16S
ATOM   5714  N2  G   A 276     137.151  72.529 -36.080  1.00 43.60      A16S
ATOM   5715  N1  G   A 276     137.213  72.627 -38.359  1.00 43.60      A16S
ATOM   5716  C6  G   A 276     136.701  72.693 -39.643  1.00 43.60      A16S
ATOM   5717  O6  G   A 276     137.469  72.708 -40.613  1.00 43.60      A16S
ATOM   5718  C5  G   A 276     135.288  72.726 -39.638  1.00 43.60      A16S
ATOM   5719  N7  G   A 276     134.390  72.813 -40.692  1.00 43.60      A16S
ATOM   5720  C8  G   A 276     133.219  72.811 -40.120  1.00 43.60      A16S
ATOM   5721  C2* G   A 276     132.063  74.011 -37.038  1.00 31.90      A16S
ATOM   5722  O2* G   A 276     131.520  73.795 -35.746  1.00 31.90      A16S
ATOM   5723  C3* G   A 276     131.139  74.816 -37.931  1.00 31.90      A16S
ATOM   5724  O3* G   A 276     130.523  75.886 -37.242  1.00 31.90      A16S
ATOM   5725  P   C   A 277     131.224  77.323 -37.256  1.00 39.51      A16S
ATOM   5726  O1P C   A 277     130.453  78.248 -36.389  1.00 38.28      A16S
ATOM   5727  O2P C   A 277     131.454  77.666 -38.692  1.00 38.28      A16S
ATOM   5728  O5* C   A 277     132.615  77.062 -36.530  1.00 39.51      A16S
ATOM   5729  C5* C   A 277     132.628  76.677 -35.156  1.00 39.51      A16S
ATOM   5730  C4* C   A 277     134.036  76.613 -34.615  1.00 39.51      A16S
ATOM   5731  O4* C   A 277     134.768  75.508 -35.203  1.00 39.51      A16S
ATOM   5732  C1* C   A 277     136.155  75.788 -35.159  1.00 39.51      A16S
ATOM   5733  N1  C   A 277     136.692  75.773 -36.517  1.00 38.28      A16S
ATOM   5734  C6  C   A 277     135.888  75.946 -37.609  1.00 38.28      A16S
ATOM   5735  C2  C   A 277     138.060  75.607 -36.672  1.00 38.28      A16S
ATOM   5736  O2  C   A 277     138.747  75.422 -35.653  1.00 38.28      A16S
ATOM   5737  N3  C   A 277     138.601  75.654 -37.923  1.00 38.28      A16S
ATOM   5738  C4  C   A 277     137.811  75.857 -38.981  1.00 38.28      A16S
ATOM   5739  N4  C   A 277     138.373  75.941 -40.183  1.00 38.28      A16S
ATOM   5740  C5  C   A 277     136.404  75.996 -38.848  1.00 38.28      A16S
ATOM   5741  C2* C   A 277     136.326  77.187 -34.581  1.00 39.51      A16S
ATOM   5742  O2* C   A 277     136.642  77.093 -33.209  1.00 39.51      A16S
ATOM   5743  C3* C   A 277     134.954  77.793 -34.845  1.00 39.51      A16S
ATOM   5744  O3* C   A 277     134.702  78.893 -34.004  1.00 39.51      A16S
ATOM   5745  P   G   A 278     135.058  80.361 -34.535  1.00 37.26      A16S
ATOM   5746  O1P G   A 278     134.586  81.341 -33.533  1.00 56.54      A16S
ATOM   5747  O2P G   A 278     134.591  80.459 -35.934  1.00 56.54      A16S
ATOM   5748  O5* G   A 278     136.648  80.393 -34.531  1.00 37.26      A16S
ATOM   5749  C5* G   A 278     137.372  80.229 -33.301  1.00 37.26      A16S
ATOM   5750  C4* G   A 278     138.861  80.321 -33.543  1.00 37.26      A16S
ATOM   5751  O4* G   A 278     139.308  79.214 -34.364  1.00 37.26      A16S
ATOM   5752  C1* G   A 278     140.346  79.646 -35.219  1.00 37.26      A16S
ATOM   5753  N9  G   A 278     139.915  79.456 -36.601  1.00 56.54      A16S
ATOM   5754  C4  G   A 278     140.726  79.363 -37.705  1.00 56.54      A16S
ATOM   5755  N3  G   A 278     142.072  79.425 -37.707  1.00 56.54      A16S
ATOM   5756  C2  G   A 278     142.567  79.298 -38.919  1.00 56.54      A16S
ATOM   5757  N2  G   A 278     143.890  79.326 -39.104  1.00 56.54      A16S
ATOM   5758  N1  G   A 278     141.804  79.131 -40.042  1.00 56.54      A16S
ATOM   5759  C6  G   A 278     140.417  79.070 -40.063  1.00 56.54      A16S
ATOM   5760  O6  G   A 278     139.823  78.922 -41.136  1.00 56.54      A16S
ATOM   5761  C5  G   A 278     139.875  79.197 -38.771  1.00 56.54      A16S
ATOM   5762  N7  G   A 278     138.557  79.183 -38.350  1.00 56.54      A16S
ATOM   5763  C8  G   A 278     138.628  79.340 -37.058  1.00 56.54      A16S
ATOM   5764  C2* G   A 278     140.643  81.106 -34.887  1.00 37.26      A16S
ATOM   5765  O2* G   A 278     141.689  81.129 -33.945  1.00 37.26      A16S
ATOM   5766  C3* G   A 278     139.326  81.564 -34.277  1.00 37.26      A16S
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ATOM   5767  O3* G   A 278     139.487  82.656 -33.373  1.00 37.26      A16S
ATOM   5768  P    A  A 279     139.372  84.161 -33.915  1.00 41.92      A16S
ATOM   5769  O1P A   A 279     138.553  84.894 -32.947  1.00 47.74      A16S
ATOM   5770  O2P A   A 279     138.936  84.089 -35.321  1.00 47.74      A16S
ATOM   5771  O5* A   A 279     140.873  84.707 -33.856  1.00 41.92      A16S
ATOM   5772  C5* A   A 279     141.364  85.473 -32.718  1.00 41.92      A16S
ATOM   5773  C4* A   A 279     142.662  86.182 -33.074  1.00 41.92      A16S
ATOM   5774  O4* A   A 279     143.711  85.190 -33.210  1.00 41.92      A16S
ATOM   5775  C1* A   A 279     144.585  85.565 -34.257  1.00 41.92      A16S
ATOM   5776  N9   A  A 279     144.795  84.419 -35.144  1.00 47.74      A16S
ATOM   5777  C4   A  A 279     146.021  83.915 -35.458  1.00 47.74      A16S
ATOM   5778  N3   A  A 279     147.205  84.390 -35.060  1.00 47.74      A16S
ATOM   5779  C2   A  A 279     148.192  83.626 -35.527  1.00 47.74      A16S
ATOM   5780  N1   A  A 279     148.125  82.519 -36.284  1.00 47.74      A16S
ATOM   5781  C6   A  A 279     146.906  82.072 -36.662  1.00 47.74      A16S
ATOM   5782  N6   A  A 279     146.834  80.964 -37.399  1.00 47.74      A16S
ATOM   5783  C5   A  A 279     145.787  82.800 -36.245  1.00 47.74      A16S
ATOM   5784  N7   A  A 279     144.432  82.624 -36.460  1.00 47.74      A16S
ATOM   5785  C8   A  A 279     143.885  83.613 -35.793  1.00 47.74      A16S
ATOM   5786  C2* A   A 279     144.063  86.845 -34.912  1.00 41.92      A16S
ATOM   5787  O2* A   A 279     144.850  87.949 -34.515  1.00 41.92      A16S
ATOM   5788  C3* A   A 279     142.620  86.922 -34.410  1.00 41.92      A16S
ATOM   5789  O3* A   A 279     142.189  88.317 -34.399  1.00 41.92      A16S
ATOM   5790  P    C  A 280     142.156  89.198 -33.032  1.00 33.16      A16S
ATOM   5791  O1P C   A 280     141.696  90.541 -33.446  1.00 63.78      A16S
ATOM   5792  O2P C   A 280     143.425  89.068 -32.281  1.00 63.78      A16S
ATOM   5793  O5* C   A 280     140.979  88.600 -32.146  1.00 33.16      A16S
ATOM   5794  C5* C   A 280     140.986  88.808 -30.722  1.00 33.16      A16S
ATOM   5795  C4* C   A 280     139.671  88.396 -30.098  1.00 33.16      A16S
ATOM   5796  O4* C   A 280     138.644  89.332 -30.495  1.00 33.16      A16S
ATOM   5797  C1* C   A 280     137.514  88.635 -30.931  1.00 33.16      A16S
ATOM   5798  N1   C  A 280     136.958  89.334 -32.086  1.00 63.78      A16S
ATOM   5799  C6   C  A 280     137.769  89.953 -32.989  1.00 63.78      A16S
ATOM   5800  C2   C  A 280     135.589  89.333 -32.260  1.00 63.78      A16S
ATOM   5801  O2   C  A 280     134.878  88.790 -31.402  1.00 63.78      A16S
ATOM   5802  N3   C  A 280     135.061  89.919 -33.355  1.00 63.78      A16S
ATOM   5803  C4   C  A 280     135.858  90.500 -34.247  1.00 63.78      A16S
ATOM   5804  N4   C  A 280     135.299  91.049 -35.327  1.00 63.78      A16S
ATOM   5805  C5   C  A 280     137.265  90.541 -34.075  1.00 63.78      A16S
ATOM   5806  C2* C   A 280     137.964  87.230 -31.309  1.00 33.16      A16S
ATOM   5807  O2* C   A 280     136.870  86.359 -31.040  1.00 33.16      A16S
ATOM   5808  C3* C   A 280     139.141  86.990 -30.370  1.00 33.16      A16S
ATOM   5809  O3* C   A 280     138.630  86.425 -29.177  1.00 33.16      A16S
ATOM   5810  P    G  A 281     139.625  85.728 -28.131  1.00 41.76      A16S
ATOM   5811  O1P G   A 281     138.783  84.854 -27.257  1.00 45.71      A16S
ATOM   5812  O2P G   A 281     140.450  86.828 -27.522  1.00 45.71      A16S
ATOM   5813  O5* G   A 281     140.562  84.781 -29.012  1.00 41.76      A16S
ATOM   5814  C5* G   A 281     140.042  83.608 -29.667  1.00 41.76      A16S
ATOM   5815  C4* G   A 281     141.151  82.609 -29.890  1.00 41.76      A16S
ATOM   5816  O4* G   A 281     142.185  83.281 -30.655  1.00 41.76      A16S
ATOM   5817  C1* G   A 281     143.410  83.198 -29.970  1.00 41.76      A16S
ATOM   5818  N9   G  A 281     144.087  84.483 -30.036  1.00 45.71      A16S
ATOM   5819  C4   G  A 281     145.322  84.719 -30.569  1.00 45.71      A16S
ATOM   5820  N3   G  A 281     146.085  83.821 -31.216  1.00 45.71      A16S
ATOM   5821  C2   G  A 281     147.253  84.319 -31.549  1.00 45.71      A16S
ATOM   5822  N2   G  A 281     148.128  83.560 -32.192  1.00 45.71      A16S
ATOM   5823  N1   G  A 281     147.651  85.601 -31.275  1.00 45.71      A16S
ATOM   5824  C6   G  A 281     146.878  86.554 -30.621  1.00 45.71      A16S
ATOM   5825  O6   G  A 281     147.331  87.695 -30.425  1.00 45.71      A16S
ATOM   5826  C5   G  A 281     145.612  86.029 -30.256  1.00 45.71      A16S
ATOM   5827  N7   G  A 281     144.547  86.625 -29.598  1.00 45.71      A16S
ATOM   5828  C8   G  A 281     143.659  85.676 -29.506  1.00 45.71      A16S
ATOM   5829  C2* G   A 281     143.085  82.908 -28.514  1.00 41.76      A16S
ATOM   5830  O2* G   A 281     144.175  82.251 -27.907  1.00 41.76      A16S
ATOM   5831  C3* G   A 281     141.816  82.080 -28.619  1.00 41.76      A16S
ATOM   5832  O3* G   A 281     142.155  80.699 -28.702  1.00 41.76      A16S
ATOM   5833  P    A  A 282     142.073  79.771 -27.381  1.00 35.43      A16S
ATOM   5834  O1P A   A 282     141.169  80.415 -26.402  1.00 43.49      A16S
ATOM   5835  O2P A   A 282     143.421  79.346 -26.943  1.00 43.49      A16S
ATOM   5836  O5* A   A 282     141.317  78.490 -27.920  1.00 35.43      A16S
ATOM   5837  C5* A   A 282     139.943  78.585 -28.297  1.00 35.43      A16S
ATOM   5838  C4* A   A 282     139.728  77.952 -29.642  1.00 35.43      A16S
ATOM   5839  O4* A   A 282     140.415  78.719 -30.661  1.00 35.43      A16S
ATOM   5840  C1* A   A 282     140.928  77.844 -31.645  1.00 35.43      A16S
ATOM   5841  N9   A  A 282     142.388  77.954 -31.637  1.00 43.49      A16S
ATOM   5842  C4   A  A 282     143.269  77.143 -32.312  1.00 43.49      A16S
ATOM   5843  N3   A  A 282     142.974  76.119 -33.125  1.00 43.49      A16S
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ATOM   5844  C2  A   A 282     144.078  75.537 -33.566  1.00 43.49      A16S
ATOM   5845  N1  A   A 282     145.348  75.839 -33.317  1.00 43.49      A16S
ATOM   5846  C6  A   A 282     145.615  76.883 -32.508  1.00 43.49      A16S
ATOM   5847  N6  A   A 282     146.891  77.199 -32.271  1.00 43.49      A16S
ATOM   5848  C5  A   A 282     144.526  77.582 -31.963  1.00 43.49      A16S
ATOM   5849  N7  A   A 282     144.447  78.669 -31.104  1.00 43.49      A16S
ATOM   5850  C8  A   A 282     143.162  78.853 -30.947  1.00 43.49      A16S
ATOM   5851  C2* A   A 282     140.460  76.430 -31.286  1.00 35.43      A16S
ATOM   5852  O2* A   A 282     139.262  76.180 -31.989  1.00 35.43      A16S
ATOM   5853  C3* A   A 282     140.263  76.542 -29.779  1.00 35.43      A16S
ATOM   5854  O3* A   A 282     139.329  75.601 -29.260  1.00 35.43      A16S
ATOM   5855  P   C   A 283     139.800  74.520 -28.162  1.00 39.60      A16S
ATOM   5856  O1P C   A 283     138.696  73.541 -28.013  1.00 52.90      A16S
ATOM   5857  O2P C   A 283     140.304  75.228 -26.958  1.00 52.90      A16S
ATOM   5858  O5* C   A 283     141.037  73.795 -28.861  1.00 39.60      A16S
ATOM   5859  C5* C   A 283     140.849  72.791 -29.878  1.00 39.60      A16S
ATOM   5860  C4* C   A 283     142.189  72.269 -30.353  1.00 39.60      A16S
ATOM   5861  O4* C   A 283     142.886  73.331 -31.049  1.00 39.60      A16S
ATOM   5862  C1* C   A 283     144.271  73.267 -30.765  1.00 39.60      A16S
ATOM   5863  N1  C   A 283     144.639  74.484 -30.019  1.00 52.90      A16S
ATOM   5864  C6  C   A 283     143.682  75.350 -29.563  1.00 52.90      A16S
ATOM   5865  C2  C   A 283     145.988  74.732 -29.765  1.00 52.90      A16S
ATOM   5866  O2  C   A 283     146.844  73.941 -30.204  1.00 52.90      A16S
ATOM   5867  N3  C   A 283     146.331  75.824 -29.049  1.00 52.90      A16S
ATOM   5868  C4  C   A 283     145.391  76.654 -28.601  1.00 52.90      A16S
ATOM   5869  N4  C   A 283     145.785  77.718 -27.895  1.00 52.90      A16S
ATOM   5870  C5  C   A 283     144.011  76.434 -28.855  1.00 52.90      A16S
ATOM   5871  C2* C   A 283     144.510  72.010 -29.928  1.00 39.60      A16S
ATOM   5872  O2* C   A 283     144.844  70.919 -30.758  1.00 39.60      A16S
ATOM   5873  C3* C   A 283     143.157  71.830 -29.265  1.00 39.60      A16S
ATOM   5874  O3* C   A 283     142.953  70.497 -28.827  1.00 39.60      A16S
ATOM   5875  P   G   A 284     143.245  70.120 -27.290  1.00 34.40      A16S
ATOM   5876  O1P G   A 284     143.076  68.648 -27.208  1.00 48.57      A16S
ATOM   5877  O2P G   A 284     142.457  70.998 -26.384  1.00 48.57      A16S
ATOM   5878  O5* G   A 284     144.786  70.461 -27.104  1.00 34.40      A16S
ATOM   5879  C5* G   A 284     145.768  69.689 -27.788  1.00 34.40      A16S
ATOM   5880  C4* G   A 284     147.138  70.263 -27.566  1.00 34.40      A16S
ATOM   5881  O4* G   A 284     147.164  71.615 -28.073  1.00 34.40      A16S
ATOM   5882  C1* G   A 284     148.110  72.365 -27.343  1.00 34.40      A16S
ATOM   5883  N9  G   A 284     147.469  73.523 -26.738  1.00 48.57      A16S
ATOM   5884  C4  G   A 284     148.138  74.513 -26.084  1.00 48.57      A16S
ATOM   5885  N3  G   A 284     149.471  74.584 -25.943  1.00 48.57      A16S
ATOM   5886  C2  G   A 284     149.837  75.625 -25.241  1.00 48.57      A16S
ATOM   5887  N2  G   A 284     151.140  75.834 -25.019  1.00 48.57      A16S
ATOM   5888  N1  G   A 284     148.962  76.534 -24.711  1.00 48.57      A16S
ATOM   5889  C6  G   A 284     147.582  76.486 -24.850  1.00 48.57      A16S
ATOM   5890  O6  G   A 284     146.886  77.365 -24.335  1.00 48.57      A16S
ATOM   5891  C5  G   A 284     147.175  75.362 -25.611  1.00 48.57      A16S
ATOM   5892  N7  G   A 284     145.911  74.929 -25.989  1.00 48.57      A16S
ATOM   5893  C8  G   A 284     146.136  73.836 -26.664  1.00 48.57      A16S
ATOM   5894  C2* G   A 284     148.689  71.466 -26.258  1.00 34.40      A16S
ATOM   5895  O2* G   A 284     149.900  70.916 -26.707  1.00 34.40      A16S
ATOM   5896  C3* G   A 284     147.608  70.415 -26.129  1.00 34.40      A16S
ATOM   5897  O3* G   A 284     148.137  69.227 -25.569  1.00 34.40      A16S
ATOM   5898  P   G   A 285     148.034  68.994 -23.980  1.00 53.59      A16S
ATOM   5899  O1P G   A 285     148.457  67.588 -23.747  1.00 45.78      A16S
ATOM   5900  O2P G   A 285     146.699  69.437 -23.519  1.00 45.78      A16S
ATOM   5901  O5* G   A 285     149.105  70.004 -23.371  1.00 53.59      A16S
ATOM   5902  C5* G   A 285     150.496  69.846 -23.672  1.00 53.59      A16S
ATOM   5903  C4* G   A 285     151.324  70.888 -22.957  1.00 53.59      A16S
ATOM   5904  O4* G   A 285     151.134  72.190 -23.561  1.00 53.59      A16S
ATOM   5905  C1* G   A 285     151.221  73.196 -22.564  1.00 53.59      A16S
ATOM   5906  N9  G   A 285     149.921  73.842 -22.442  1.00 45.78      A16S
ATOM   5907  C4  G   A 285     149.661  74.973 -21.733  1.00 45.78      A16S
ATOM   5908  N3  G   A 285     150.569  75.705 -21.069  1.00 45.78      A16S
ATOM   5909  C2  G   A 285     150.018  76.721 -20.440  1.00 45.78      A16S
ATOM   5910  N2  G   A 285     150.791  77.550 -19.740  1.00 45.78      A16S
ATOM   5911  N1  G   A 285     148.670  76.994 -20.453  1.00 45.78      A16S
ATOM   5912  C6  G   A 285     147.711  76.244 -21.130  1.00 45.78      A16S
ATOM   5913  O6  G   A 285     146.513  76.556 -21.063  1.00 45.78      A16S
ATOM   5914  C5  G   A 285     148.300  75.159 -21.822  1.00 45.78      A16S
ATOM   5915  N7  G   A 285     147.720  74.178 -22.609  1.00 45.78      A16S
ATOM   5916  C8  G   A 285     148.722  73.422 -22.960  1.00 45.78      A16S
ATOM   5917  C2* G   A 285     151.562  72.506 -21.247  1.00 53.59      A16S
ATOM   5918  O2* G   A 285     152.959  72.510 -21.051  1.00 53.59      A16S
ATOM   5919  C3* G   A 285     151.017  71.107 -21.488  1.00 53.59      A16S
ATOM   5920  O3* G   A 285     151.631  70.151 -20.648  1.00 53.59      A16S
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ATOM   5921  P    G   A 286     150.993  69.849 -19.208  1.00 25.54      A16S
ATOM   5922  O1P  G   A 286     151.859  68.824 -18.588  1.00 35.84      A16S
ATOM   5923  O2P  G   A 286     149.541  69.585 -19.361  1.00 35.84      A16S
ATOM   5924  O5*  G   A 286     151.189  71.209 -18.410  1.00 25.54      A16S
ATOM   5925  C5*  G   A 286     152.506  71.698 -18.170  1.00 25.54      A16S
ATOM   5926  C4*  G   A 286     152.462  72.962 -17.367  1.00 25.54      A16S
ATOM   5927  O4*  G   A 286     151.851  74.007 -18.152  1.00 25.54      A16S
ATOM   5928  C1*  G   A 286     151.153  74.892 -17.298  1.00 25.54      A16S
ATOM   5929  N9   G   A 286     149.755  74.943 -17.711  1.00 35.84      A16S
ATOM   5930  C4   G   A 286     148.830  75.852 -17.284  1.00 35.84      A16S
ATOM   5931  N3   G   A 286     149.056  76.850 -16.409  1.00 35.84      A16S
ATOM   5932  C2   G   A 286     147.981  77.577 -16.207  1.00 35.84      A16S
ATOM   5933  N2   G   A 286     148.042  78.634 -15.382  1.00 35.84      A16S
ATOM   5934  N1   G   A 286     146.772  77.326 -16.807  1.00 35.84      A16S
ATOM   5935  C6   G   A 286     146.523  76.295 -17.708  1.00 35.84      A16S
ATOM   5936  O6   G   A 286     145.401  76.154 -18.194  1.00 35.84      A16S
ATOM   5937  C5   G   A 286     147.667  75.526 -17.938  1.00 35.84      A16S
ATOM   5938  N7   G   A 286     147.851  74.424 -18.754  1.00 35.84      A16S
ATOM   5939  C8   G   A 286     149.105  74.112 -18.588  1.00 35.84      A16S
ATOM   5940  C2*  G   A 286     151.338  74.392 -15.870  1.00 25.54      A16S
ATOM   5941  O2*  G   A 286     152.457  75.052 -15.327  1.00 25.54      A16S
ATOM   5942  C3*  G   A 286     151.636  72.922 -16.101  1.00 25.54      A16S
ATOM   5943  O3*  G   A 286     152.358  72.354 -15.030  1.00 25.54      A16S
ATOM   5944  P    U   A 287     151.562  71.567 -13.880  1.00 45.66      A16S
ATOM   5945  O1P  U   A 287     152.597  71.104 -12.917  1.00 50.22      A16S
ATOM   5946  O2P  U   A 287     150.617  70.581 -14.490  1.00 50.22      A16S
ATOM   5947  O5*  U   A 287     150.714  72.711 -13.170  1.00 45.66      A16S
ATOM   5948  C5*  U   A 287     151.384  73.743 -12.435  1.00 45.66      A16S
ATOM   5949  C4*  U   A 287     150.425  74.837 -12.048  1.00 45.66      A16S
ATOM   5950  O4*  U   A 287     149.915  75.491 -13.232  1.00 45.66      A16S
ATOM   5951  C1*  U   A 287     148.598  75.941 -12.995  1.00 45.66      A16S
ATOM   5952  N1   U   A 287     147.693  75.253 -13.919  1.00 50.22      A16S
ATOM   5953  C6   U   A 287     148.071  74.125 -14.585  1.00 50.22      A16S
ATOM   5954  C2   U   A 287     146.444  75.782 -14.084  1.00 50.22      A16S
ATOM   5955  O2   U   A 287     146.073  76.776 -13.498  1.00 50.22      A16S
ATOM   5956  N3   U   A 287     145.639  75.103 -14.955  1.00 50.22      A16S
ATOM   5957  C4   U   A 287     145.954  73.968 -15.657  1.00 50.22      A16S
ATOM   5958  O4   U   A 287     145.144  73.505 -16.461  1.00 50.22      A16S
ATOM   5959  C5   U   A 287     147.266  73.478 -15.422  1.00 50.22      A16S
ATOM   5960  C2*  U   A 287     148.252  75.589 -11.556  1.00 45.66      A16S
ATOM   5961  O2*  U   A 287     148.558  76.691 -10.728  1.00 45.66      A16S
ATOM   5962  C3*  U   A 287     149.182  74.419 -11.301  1.00 45.66      A16S
ATOM   5963  O3*  U   A 287     149.405  74.236  -9.923  1.00 45.66      A16S
ATOM   5964  P    A   A 288     148.383  73.329  -9.087  1.00 44.93      A16S
ATOM   5965  O1P  A   A 288     148.822  73.358  -7.665  1.00 43.23      A16S
ATOM   5966  O2P  A   A 288     148.165  72.025  -9.773  1.00 43.23      A16S
ATOM   5967  O5*  A   A 288     147.019  74.120  -9.213  1.00 44.93      A16S
ATOM   5968  C5*  A   A 288     146.898  75.414  -8.636  1.00 44.93      A16S
ATOM   5969  C4*  A   A 288     145.467  75.839  -8.648  1.00 44.93      A16S
ATOM   5970  O4*  A   A 288     145.079  76.177  -9.996  1.00 44.93      A16S
ATOM   5971  C1*  A   A 288     143.738  75.807 -10.202  1.00 44.93      A16S
ATOM   5972  N9   A   A 288     143.723  74.805 -11.253  1.00 43.23      A16S
ATOM   5973  C4   A   A 288     142.710  74.593 -12.144  1.00 43.23      A16S
ATOM   5974  N3   A   A 288     141.570  75.282 -12.242  1.00 43.23      A16S
ATOM   5975  C2   A   A 288     140.807  74.769 -13.191  1.00 43.23      A16S
ATOM   5976  N1   A   A 288     141.038  73.724 -13.991  1.00 43.23      A16S
ATOM   5977  C6   A   A 288     142.199  73.061 -13.867  1.00 43.23      A16S
ATOM   5978  N6   A   A 288     142.424  72.019 -14.661  1.00 43.23      A16S
ATOM   5979  C5   A   A 288     143.095  73.508 -12.903  1.00 43.23      A16S
ATOM   5980  N7   A   A 288     144.349  73.063 -12.522  1.00 43.23      A16S
ATOM   5981  C8   A   A 288     144.680  73.869 -11.542  1.00 43.23      A16S
ATOM   5982  C2*  A   A 288     143.199  75.262  -8.878  1.00 44.93      A16S
ATOM   5983  O2*  A   A 288     142.622  76.329  -8.152  1.00 44.93      A16S
ATOM   5984  C3*  A   A 288     144.474  74.781  -8.208  1.00 44.93      A16S
ATOM   5985  O3*  A   A 288     144.398  74.727  -6.787  1.00 44.93      A16S
ATOM   5986  P    G   A 289     143.501  73.604  -6.074  1.00 30.15      A16S
ATOM   5987  O1P  G   A 289     144.016  73.524  -4.693  1.00 35.69      A16S
ATOM   5988  O2P  G   A 289     143.457  72.373  -6.906  1.00 35.69      A16S
ATOM   5989  O5*  G   A 289     142.054  74.287  -6.076  1.00 30.15      A16S
ATOM   5990  C5*  G   A 289     140.841  73.513  -5.953  1.00 30.15      A16S
ATOM   5991  C4*  G   A 289     139.870  73.825  -7.087  1.00 30.15      A16S
ATOM   5992  O4*  G   A 289     138.844  72.805  -7.062  1.00 30.15      A16S
ATOM   5993  C1*  G   A 289     137.574  73.381  -7.271  1.00 30.15      A16S
ATOM   5994  N9   G   A 289     136.873  73.365  -5.993  1.00 35.69      A16S
ATOM   5995  C4   G   A 289     135.549  73.648  -5.776  1.00 35.69      A16S
ATOM   5996  N3   G   A 289     134.653  74.007  -6.714  1.00 35.69      A16S
ATOM   5997  C2   G   A 289     133.455  74.193  -6.198  1.00 35.69      A16S
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ATOM   5998  N2  G   A 289     132.445  74.538  -6.997  1.00 35.69      A16S
ATOM   5999  N1  G   A 289     133.160  74.048  -4.868  1.00 35.69      A16S
ATOM   6000  C6  G   A 289     134.069  73.677  -3.889  1.00 35.69      A16S
ATOM   6001  O6  G   A 289     133.702  73.560  -2.716  1.00 35.69      A16S
ATOM   6002  C5  G   A 289     135.354  73.474  -4.426  1.00 35.69      A16S
ATOM   6003  N7  G   A 289     136.533  73.106  -3.803  1.00 35.69      A16S
ATOM   6004  C8  G   A 289     137.405  73.058  -4.768  1.00 35.69      A16S
ATOM   6005  C2* G   A 289     137.813  74.797  -7.765  1.00 30.15      A16S
ATOM   6006  O2* G   A 289     137.933  74.738  -9.171  1.00 30.15      A16S
ATOM   6007  C3* G   A 289     139.109  75.146  -7.048  1.00 30.15      A16S
ATOM   6008  O3* G   A 289     139.783  76.191  -7.730  1.00 30.15      A16S
ATOM   6009  P   C   A 290     139.538  77.727  -7.293  1.00 23.76      A16S
ATOM   6010  O1P C   A 290     140.475  78.538  -8.100  1.00 34.84      A16S
ATOM   6011  O2P C   A 290     139.600  77.811  -5.813  1.00 34.84      A16S
ATOM   6012  O5* C   A 290     138.048  78.064  -7.759  1.00 23.76      A16S
ATOM   6013  C5* C   A 290     137.788  78.590  -9.066  1.00 23.76      A16S
ATOM   6014  C4* C   A 290     136.336  78.997  -9.202  1.00 23.76      A16S
ATOM   6015  O4* C   A 290     135.497  77.835  -8.970  1.00 23.76      A16S
ATOM   6016  C1* C   A 290     134.297  78.222  -8.319  1.00 23.76      A16S
ATOM   6017  N1  C   A 290     134.347  77.724  -6.933  1.00 34.84      A16S
ATOM   6018  C6  C   A 290     135.536  77.368  -6.365  1.00 34.84      A16S
ATOM   6019  C2  C   A 290     133.167  77.658  -6.191  1.00 34.84      A16S
ATOM   6020  O2  C   A 290     132.087  77.944  -6.735  1.00 34.84      A16S
ATOM   6021  N3  C   A 290     133.232  77.288  -4.898  1.00 34.84      A16S
ATOM   6022  C4  C   A 290     134.404  76.990  -4.348  1.00 34.84      A16S
ATOM   6023  N4  C   A 290     134.424  76.690  -3.057  1.00 34.84      A16S
ATOM   6024  C5  C   A 290     135.607  77.003  -5.091  1.00 34.84      A16S
ATOM   6025  C2* C   A 290     134.287  79.747  -8.287  1.00 23.76      A16S
ATOM   6026  O2* C   A 290     133.631  80.228  -9.447  1.00 23.76      A16S
ATOM   6027  C3* C   A 290     135.781  80.052  -8.251  1.00 23.76      A16S
ATOM   6028  O3* C   A 290     136.060  81.394  -8.634  1.00 23.76      A16S
ATOM   6029  P   C   A 291     136.202  82.526  -7.499  1.00 29.78      A16S
ATOM   6030  O1P C   A 291     136.484  83.821  -8.149  1.00 33.33      A16S
ATOM   6031  O2P C   A 291     137.110  82.026  -6.434  1.00 33.33      A16S
ATOM   6032  O5* C   A 291     134.739  82.636  -6.908  1.00 29.78      A16S
ATOM   6033  C5* C   A 291     133.678  83.063  -7.745  1.00 29.78      A16S
ATOM   6034  C4* C   A 291     132.390  83.110  -6.978  1.00 29.78      A16S
ATOM   6035  O4* C   A 291     132.098  81.783  -6.477  1.00 29.78      A16S
ATOM   6036  C1* C   A 291     131.367  81.890  -5.275  1.00 29.78      A16S
ATOM   6037  N1  C   A 291     132.155  81.313  -4.182  1.00 33.33      A16S
ATOM   6038  C6  C   A 291     133.496  81.125  -4.302  1.00 33.33      A16S
ATOM   6039  C2  C   A 291     131.506  81.006  -2.988  1.00 33.33      A16S
ATOM   6040  O2  C   A 291     130.273  81.110  -2.931  1.00 33.33      A16S
ATOM   6041  N3  C   A 291     132.229  80.601  -1.929  1.00 33.33      A16S
ATOM   6042  C4  C   A 291     133.547  80.484  -2.036  1.00 33.33      A16S
ATOM   6043  N4  C   A 291     134.235  80.165  -0.940  1.00 33.33      A16S
ATOM   6044  C5  C   A 291     134.224  80.715  -3.264  1.00 33.33      A16S
ATOM   6045  C2* C   A 291     131.169  83.378  -4.991  1.00 29.78      A16S
ATOM   6046  O2* C   A 291     129.933  83.818  -5.523  1.00 29.78      A16S
ATOM   6047  C3* C   A 291     132.343  83.980  -5.734  1.00 29.78      A16S
ATOM   6048  O3* C   A 291     132.149  85.368  -5.960  1.00 29.78      A16S
ATOM   6049  P   G   A 292     132.590  86.403  -4.817  1.00 36.07      A16S
ATOM   6050  O1P G   A 292     132.424  87.781  -5.311  1.00 33.05      A16S
ATOM   6051  O2P G   A 292     133.888  85.983  -4.277  1.00 33.05      A16S
ATOM   6052  O5* G   A 292     131.539  86.128  -3.665  1.00 36.07      A16S
ATOM   6053  C5* G   A 292     130.136  86.268  -3.918  1.00 36.07      A16S
ATOM   6054  C4* G   A 292     129.351  86.050  -2.648  1.00 36.07      A16S
ATOM   6055  O4* G   A 292     129.498  84.670  -2.232  1.00 36.07      A16S
ATOM   6056  C1* G   A 292     129.495  84.601  -0.824  1.00 36.07      A16S
ATOM   6057  N9  G   A 292     130.784  84.094  -0.386  1.00 33.05      A16S
ATOM   6058  C4  G   A 292     131.055  83.562   0.842  1.00 33.05      A16S
ATOM   6059  N3  G   A 292     130.161  83.371   1.827  1.00 33.05      A16S
ATOM   6060  C2  G   A 292     130.718  82.896   2.906  1.00 33.05      A16S
ATOM   6061  N2  G   A 292     129.966  82.658   3.972  1.00 33.05      A16S
ATOM   6062  N1  G   A 292     132.058  82.625   3.021  1.00 33.05      A16S
ATOM   6063  C6  G   A 292     133.005  82.828   2.022  1.00 33.05      A16S
ATOM   6064  O6  G   A 292     134.205  82.598   2.239  1.00 33.05      A16S
ATOM   6065  C5  G   A 292     132.408  83.324   0.846  1.00 33.05      A16S
ATOM   6066  N7  G   A 292     132.969  83.657  -0.377  1.00 33.05      A16S
ATOM   6067  C8  G   A 292     131.965  84.100  -1.080  1.00 33.05      A16S
ATOM   6068  C2* G   A 292     129.285  86.013  -0.281  1.00 36.07      A16S
ATOM   6069  O2* G   A 292     127.911  86.156  -0.003  1.00 36.07      A16S
ATOM   6070  C3* G   A 292     129.783  86.868  -1.440  1.00 36.07      A16S
ATOM   6071  O3* G   A 292     129.223  88.182  -1.458  1.00 36.07      A16S
ATOM   6072  P   G   A 293     130.103  89.432  -0.948  1.00 29.07      A16S
ATOM   6073  O1P G   A 293     129.263  90.652  -1.028  1.00 43.71      A16S
ATOM   6074  O2P G   A 293     131.420  89.401  -1.637  1.00 43.71      A16S
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ATOM   6075  O5* G   A 293     130.314  89.132   0.596  1.00 29.07      A16S
ATOM   6076  C5* G   A 293     131.485  89.566   1.264  1.00 29.07      A16S
ATOM   6077  C4* G   A 293     132.182  88.389   1.887  1.00 29.07      A16S
ATOM   6078  O4* G   A 293     132.442  87.372   0.886  1.00 29.07      A16S
ATOM   6079  C1* G   A 293     133.717  86.790   1.109  1.00 29.07      A16S
ATOM   6080  N9  G   A 293     134.544  87.040  -0.064  1.00 43.71      A16S
ATOM   6081  C4  G   A 293     135.838  86.636  -0.249  1.00 43.71      A16S
ATOM   6082  N3  G   A 293     136.570  85.922   0.622  1.00 43.71      A16S
ATOM   6083  C2  G   A 293     137.786  85.692   0.166  1.00 43.71      A16S
ATOM   6084  N2  G   A 293     138.652  84.979   0.909  1.00 43.71      A16S
ATOM   6085  N1  G   A 293     138.244  86.141  -1.046  1.00 43.71      A16S
ATOM   6086  C6  G   A 293     137.504  86.887  -1.949  1.00 43.71      A16S
ATOM   6087  O6  G   A 293     138.016  87.260  -3.014  1.00 43.71      A16S
ATOM   6088  C5  G   A 293     136.202  87.124  -1.477  1.00 43.71      A16S
ATOM   6089  N7  G   A 293     135.156  87.812  -2.061  1.00 43.71      A16S
ATOM   6090  C8  G   A 293     134.193  87.734  -1.189  1.00 43.71      A16S
ATOM   6091  C2* G   A 293     134.310  87.429   2.363  1.00 29.07      A16S
ATOM   6092  O2* G   A 293     134.105  86.571   3.456  1.00 29.07      A16S
ATOM   6093  C3* G   A 293     133.542  88.742   2.437  1.00 29.07      A16S
ATOM   6094  O3* G   A 293     133.419  89.264   3.739  1.00 29.07      A16S
ATOM   6095  P   U   A 294     134.454  90.368   4.223  1.00 40.95      A16S
ATOM   6096  O1P U   A 294     134.193  90.639   5.651  1.00 39.59      A16S
ATOM   6097  O2P U   A 294     134.437  91.488   3.243  1.00 39.59      A16S
ATOM   6098  O5* U   A 294     135.846  89.606   4.119  1.00 40.95      A16S
ATOM   6099  C5* U   A 294     136.114  88.489   4.973  1.00 40.95      A16S
ATOM   6100  C4* U   A 294     137.561  88.093   4.877  1.00 40.95      A16S
ATOM   6101  O4* U   A 294     137.799  87.409   3.631  1.00 40.95      A16S
ATOM   6102  C1* U   A 294     139.066  87.769   3.128  1.00 40.95      A16S
ATOM   6103  N1  U   A 294     138.846  88.398   1.824  1.00 39.59      A16S
ATOM   6104  C6  U   A 294     137.590  88.765   1.443  1.00 39.59      A16S
ATOM   6105  C2  U   A 294     139.931  88.612   1.004  1.00 39.59      A16S
ATOM   6106  O2  U   A 294     141.068  88.278   1.301  1.00 39.59      A16S
ATOM   6107  N3  U   A 294     139.636  89.233  -0.181  1.00 39.59      A16S
ATOM   6108  C4  U   A 294     138.393  89.650  -0.608  1.00 39.59      A16S
ATOM   6109  O4  U   A 294     138.294  90.326  -1.632  1.00 39.59      A16S
ATOM   6110  C5  U   A 294     137.335  89.361   0.290  1.00 39.59      A16S
ATOM   6111  C2* U   A 294     139.736  88.698   4.143  1.00 40.95      A16S
ATOM   6112  O2* U   A 294     140.608  87.962   4.972  1.00 40.95      A16S
ATOM   6113  C3* U   A 294     138.538  89.248   4.900  1.00 40.95      A16S
ATOM   6114  O3* U   A 294     138.862  89.613   6.234  1.00 40.95      A16S
ATOM   6115  P   C   A 295     139.331  91.113   6.542  1.00 31.84      A16S
ATOM   6116  O1P C   A 295     139.510  91.290   8.015  1.00 27.62      A16S
ATOM   6117  O2P C   A 295     138.400  92.000   5.804  1.00 27.62      A16S
ATOM   6118  O5* C   A 295     140.758  91.199   5.841  1.00 31.84      A16S
ATOM   6119  C5* C   A 295     141.865  90.473   6.381  1.00 31.84      A16S
ATOM   6120  C4* C   A 295     143.108  90.710   5.571  1.00 31.84      A16S
ATOM   6121  O4* C   A 295     142.961  90.093   4.274  1.00 31.84      A16S
ATOM   6122  C1* C   A 295     143.695  90.831   3.318  1.00 31.84      A16S
ATOM   6123  N1  C   A 295     142.774  91.274   2.265  1.00 27.62      A16S
ATOM   6124  C6  C   A 295     141.431  91.310   2.483  1.00 27.62      A16S
ATOM   6125  C2  C   A 295     143.295  91.662   1.042  1.00 27.62      A16S
ATOM   6126  O2  C   A 295     144.521  91.619   0.872  1.00 27.62      A16S
ATOM   6127  N3  C   A 295     142.458  92.075   0.076  1.00 27.62      A16S
ATOM   6128  C4  C   A 295     141.151  92.110   0.303  1.00 27.62      A16S
ATOM   6129  N4  C   A 295     140.360  92.533  -0.669  1.00 27.62      A16S
ATOM   6130  C5  C   A 295     140.594  91.719   1.536  1.00 27.62      A16S
ATOM   6131  C2* C   A 295     144.357  92.003   4.038  1.00 31.84      A16S
ATOM   6132  O2* C   A 295     145.676  91.657   4.403  1.00 31.84      A16S
ATOM   6133  C3* C   A 295     143.465  92.147   5.256  1.00 31.84      A16S
ATOM   6134  O3* C   A 295     144.124  92.818   6.313  1.00 31.84      A16S
ATOM   6135  P   U   A 296     143.877  94.396   6.497  1.00 27.17      A16S
ATOM   6136  O1P U   A 296     144.537  94.838   7.751  1.00 35.66      A16S
ATOM   6137  O2P U   A 296     142.421  94.659   6.300  1.00 35.66      A16S
ATOM   6138  O5* U   A 296     144.646  95.029   5.259  1.00 27.17      A16S
ATOM   6139  C5* U   A 296     146.059  94.892   5.139  1.00 27.17      A16S
ATOM   6140  C4* U   A 296     146.497  95.279   3.752  1.00 27.17      A16S
ATOM   6141  O4* U   A 296     145.822  94.436   2.787  1.00 27.17      A16S
ATOM   6142  C1* U   A 296     145.659  95.146   1.579  1.00 27.17      A16S
ATOM   6143  N1  U   A 296     144.235  95.149   1.235  1.00 35.66      A16S
ATOM   6144  C6  U   A 296     143.285  94.753   2.137  1.00 35.66      A16S
ATOM   6145  C2  U   A 296     143.884  95.580  -0.032  1.00 35.66      A16S
ATOM   6146  O2  U   A 296     144.704  95.939  -0.873  1.00 35.66      A16S
ATOM   6147  N3  U   A 296     142.541  95.582  -0.278  1.00 35.66      A16S
ATOM   6148  C4  U   A 296     141.540  95.210   0.581  1.00 35.66      A16S
ATOM   6149  O4  U   A 296     140.370  95.282   0.209  1.00 35.66      A16S
ATOM   6150  C5  U   A 296     141.986  94.770   1.862  1.00 35.66      A16S
ATOM   6151  C2* U   A 296     146.202  96.564   1.777  1.00 27.17      A16S
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ATOM	6152	O2*	U	A	296	147.490	96.660	1.212	1.00	27.17	A16S
ATOM	6153	C3*	U	A	296	146.191	96.696	3.294	1.00	27.17	A16S
ATOM	6154	O3*	U	A	296	147.196	97.601	3.723	1.00	27.17	A16S
ATOM	6155	P	G	A	297	146.797	99.095	4.132	1.00	20.23	A16S
ATOM	6156	O1P	G	A	297	148.037	99.774	4.643	1.00	47.99	A16S
ATOM	6157	O2P	G	A	297	145.589	99.049	4.980	1.00	47.99	A16S
ATOM	6158	O5*	G	A	297	146.342	99.744	2.759	1.00	20.23	A16S
ATOM	6159	C5*	G	A	297	147.283	99.966	1.729	1.00	20.23	A16S
ATOM	6160	C4*	G	A	297	146.588	100.472	0.510	1.00	20.23	A16S
ATOM	6161	O4*	G	A	297	145.769	99.423	-0.058	1.00	20.23	A16S
ATOM	6162	C1*	G	A	297	144.686	100.001	-0.766	1.00	20.23	A16S
ATOM	6163	N9	G	A	297	143.441	99.462	-0.239	1.00	47.99	A16S
ATOM	6164	C4	G	A	297	142.245	99.435	-0.885	1.00	47.99	A16S
ATOM	6165	N3	G	A	297	142.016	99.882	-2.130	1.00	47.99	A16S
ATOM	6166	C2	G	A	297	140.754	99.726	-2.484	1.00	47.99	A16S
ATOM	6167	N2	G	A	297	140.346	100.115	-3.704	1.00	47.99	A16S
ATOM	6168	N1	G	A	297	139.795	99.178	-1.673	1.00	47.99	A16S
ATOM	6169	C6	G	A	297	140.011	98.721	-0.381	1.00	47.99	A16S
ATOM	6170	O6	G	A	297	139.066	98.257	0.277	1.00	47.99	A16S
ATOM	6171	C5	G	A	297	141.361	98.875	0.002	1.00	47.99	A16S
ATOM	6172	N7	G	A	297	141.996	98.543	1.183	1.00	47.99	A16S
ATOM	6173	C8	G	A	297	143.230	98.906	0.992	1.00	47.99	A16S
ATOM	6174	C2*	G	A	297	144.773	101.514	-0.572	1.00	20.23	A16S
ATOM	6175	O2*	G	A	297	145.456	102.093	-1.672	1.00	20.23	A16S
ATOM	6176	C3*	G	A	297	145.606	101.610	0.697	1.00	20.23	A16S
ATOM	6177	O3*	G	A	297	146.241	102.867	0.799	1.00	20.23	A16S
ATOM	6178	P	A	A	298	145.706	103.926	1.875	1.00	24.75	A16S
ATOM	6179	O1P	A	A	298	146.625	105.088	1.912	1.00	50.55	A16S
ATOM	6180	O2P	A	A	298	145.474	103.145	3.119	1.00	50.55	A16S
ATOM	6181	O5*	A	A	298	144.311	104.408	1.272	1.00	24.75	A16S
ATOM	6182	C5*	A	A	298	143.337	105.027	2.116	1.00	24.75	A16S
ATOM	6183	C4*	A	A	298	142.457	105.925	1.313	1.00	24.75	A16S
ATOM	6184	O4*	A	A	298	143.250	106.976	0.731	1.00	24.75	A16S
ATOM	6185	C1*	A	A	298	142.773	107.267	-0.567	1.00	24.75	A16S
ATOM	6186	N9	A	A	298	143.858	107.051	-1.521	1.00	50.55	A16S
ATOM	6187	C4	A	A	298	143.971	107.584	-2.784	1.00	50.55	A16S
ATOM	6188	N3	A	A	298	143.111	108.396	-3.407	1.00	50.55	A16S
ATOM	6189	C2	A	A	298	143.554	108.711	-4.621	1.00	50.55	A16S
ATOM	6190	N1	A	A	298	144.674	108.340	-5.236	1.00	50.55	A16S
ATOM	6191	C6	A	A	298	145.519	107.525	-4.585	1.00	50.55	A16S
ATOM	6192	N6	A	A	298	146.646	107.158	-5.198	1.00	50.55	A16S
ATOM	6193	C5	A	A	298	145.160	107.110	-3.289	1.00	50.55	A16S
ATOM	6194	N7	A	A	298	145.783	106.281	-2.369	1.00	50.55	A16S
ATOM	6195	C8	A	A	298	144.971	106.281	-1.342	1.00	50.55	A16S
ATOM	6196	C2*	A	A	298	141.565	106.370	-0.833	1.00	24.75	A16S
ATOM	6197	O2*	A	A	298	140.402	107.089	-0.512	1.00	24.75	A16S
ATOM	6198	C3*	A	A	298	141.797	105.231	0.145	1.00	24.75	A16S
ATOM	6199	O3*	A	A	298	140.580	104.633	0.567	1.00	24.75	A16S
ATOM	6200	P	G	A	299	140.323	103.072	0.295	1.00	25.47	A16S
ATOM	6201	O1P	G	A	299	139.115	102.652	1.055	1.00	48.69	A16S
ATOM	6202	O2P	G	A	299	141.609	102.362	0.528	1.00	48.69	A16S
ATOM	6203	O5*	G	A	299	139.914	103.043	-1.239	1.00	25.47	A16S
ATOM	6204	C5*	G	A	299	138.680	103.617	-1.643	1.00	25.47	A16S
ATOM	6205	C4*	G	A	299	138.816	104.212	-3.010	1.00	25.47	A16S
ATOM	6206	O4*	G	A	299	140.082	104.907	-3.051	1.00	25.47	A16S
ATOM	6207	C1*	G	A	299	140.634	104.795	-4.349	1.00	25.47	A16S
ATOM	6208	N9	G	A	299	141.997	104.286	-4.225	1.00	48.69	A16S
ATOM	6209	C4	G	A	299	143.035	104.494	-5.099	1.00	48.69	A16S
ATOM	6210	N3	G	A	299	142.973	105.184	-6.245	1.00	48.69	A16S
ATOM	6211	C2	G	A	299	144.139	105.225	-6.852	1.00	48.69	A16S
ATOM	6212	N2	G	A	299	144.259	105.873	-8.007	1.00	48.69	A16S
ATOM	6213	N1	G	A	299	145.274	104.633	-6.377	1.00	48.69	A16S
ATOM	6214	C6	G	A	299	145.359	103.909	-5.207	1.00	48.69	A16S
ATOM	6215	O6	G	A	299	146.431	103.400	-4.881	1.00	48.69	A16S
ATOM	6216	C5	G	A	299	144.119	103.861	-4.540	1.00	48.69	A16S
ATOM	6217	N7	G	A	299	143.768	103.250	-3.349	1.00	48.69	A16S
ATOM	6218	C8	G	A	299	142.501	103.525	-3.204	1.00	48.69	A16S
ATOM	6219	C2*	G	A	299	139.685	103.951	-5.211	1.00	25.47	A16S
ATOM	6220	O2*	G	A	299	138.848	104.767	-6.000	1.00	25.47	A16S
ATOM	6221	C3*	G	A	299	138.869	103.216	-4.158	1.00	25.47	A16S
ATOM	6222	O3*	G	A	299	137.565	102.906	-4.653	1.00	25.47	A16S
ATOM	6223	P	A	A	300	137.304	101.495	-5.390	1.00	47.27	A16S
ATOM	6224	O1P	A	A	300	135.911	101.478	-5.867	1.00	24.64	A16S
ATOM	6225	O2P	A	A	300	137.797	100.367	-4.558	1.00	24.64	A16S
ATOM	6226	O5*	A	A	300	138.185	101.599	-6.707	1.00	47.27	A16S
ATOM	6227	C5*	A	A	300	137.689	102.297	-7.862	1.00	47.27	A16S
ATOM	6228	C4*	A	A	300	138.679	102.200	-8.991	1.00	47.27	A16S

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ATOM   6229  O4* A   A 300     139.885 102.908  -8.618  1.00 47.27      A16S
ATOM   6230  C1* A   A 300     141.021 102.174  -9.039  1.00 47.27      A16S
ATOM   6231  N9  A   A 300     141.669 101.650  -7.838  1.00 24.64      A16S
ATOM   6232  C4  A   A 300     143.013 101.556  -7.613  1.00 24.64      A16S
ATOM   6233  N3  A   A 300     143.995 101.906  -8.447  1.00 24.64      A16S
ATOM   6234  C2  A   A 300     145.182 101.710  -7.869  1.00 24.64      A16S
ATOM   6235  N1  A   A 300     145.469 101.242  -6.648  1.00 24.64      A16S
ATOM   6236  C6  A   A 300     144.449 100.899  -5.842  1.00 24.64      A16S
ATOM   6237  N6  A   A 300     144.726 100.444  -4.625  1.00 24.64      A16S
ATOM   6238  C5  A   A 300     143.150 101.052  -6.334  1.00 24.64      A16S
ATOM   6239  N7  A   A 300     141.912 100.806  -5.770  1.00 24.64      A16S
ATOM   6240  C8  A   A 300     141.069 101.173  -6.700  1.00 24.64      A16S
ATOM   6241  C2* A   A 300     140.516 101.044  -9.923  1.00 47.27      A16S
ATOM   6242  O2* A   A 300     140.390 101.493 -11.259  1.00 47.27      A16S
ATOM   6243  C3* A   A 300     139.154 100.795  -9.310  1.00 47.27      A16S
ATOM   6244  O3* A   A 300     138.310 100.088 -10.191  1.00 47.27      A16S
ATOM   6245  P   G   A 301     138.484  98.497 -10.318  1.00 32.24      A16S
ATOM   6246  O1P G   A 301     137.675  98.054 -11.493  1.00 34.10      A16S
ATOM   6247  O2P G   A 301     138.256  97.872  -8.975  1.00 34.10      A16S
ATOM   6248  O5* G   A 301     140.023  98.331 -10.695  1.00 32.24      A16S
ATOM   6249  C5* G   A 301     140.741  97.143 -10.360  1.00 32.24      A16S
ATOM   6250  C4* G   A 301     142.165  97.490 -10.059  1.00 32.24      A16S
ATOM   6251  O4* G   A 301     142.178  98.471  -9.004  1.00 32.24      A16S
ATOM   6252  C1* G   A 301     143.242  98.199  -8.113  1.00 32.24      A16S
ATOM   6253  N9  G   A 301     142.659  97.843  -6.827  1.00 34.10      A16S
ATOM   6254  C4  G   A 301     143.332  97.371  -5.746  1.00 34.10      A16S
ATOM   6255  N3  G   A 301     144.657  97.185  -5.671  1.00 34.10      A16S
ATOM   6256  C2  G   A 301     145.018  96.693  -4.506  1.00 34.10      A16S
ATOM   6257  N2  G   A 301     146.324  96.450  -4.258  1.00 34.10      A16S
ATOM   6258  N1  G   A 301     144.134  96.398  -3.501  1.00 34.10      A16S
ATOM   6259  C6  G   A 301     142.759  96.568  -3.577  1.00 34.10      A16S
ATOM   6260  O6  G   A 301     142.041  96.227  -2.639  1.00 34.10      A16S
ATOM   6261  C5  G   A 301     142.374  97.114  -4.803  1.00 34.10      A16S
ATOM   6262  N7  G   A 301     141.118  97.452  -5.270  1.00 34.10      A16S
ATOM   6263  C8  G   A 301     141.336  97.884  -6.475  1.00 34.10      A16S
ATOM   6264  C2* G   A 301     144.052  97.048  -8.702  1.00 32.24      A16S
ATOM   6265  O2* G   A 301     145.106  97.591  -9.459  1.00 32.24      A16S
ATOM   6266  C3* G   A 301     143.002  96.341  -9.543  1.00 32.24      A16S
ATOM   6267  O3* G   A 301     143.543  95.601 -10.625  1.00 32.24      A16S
ATOM   6268  P   G   A 302     143.494  93.994 -10.591  1.00 37.96      A16S
ATOM   6269  O1P G   A 302     143.892  93.536 -11.951  1.00 21.38      A16S
ATOM   6270  O2P G   A 302     142.194  93.557 -10.036  1.00 21.38      A16S
ATOM   6271  O5* G   A 302     144.647  93.623  -9.563  1.00 37.96      A16S
ATOM   6272  C5* G   A 302     145.984  94.055  -9.817  1.00 37.96      A16S
ATOM   6273  C4* G   A 302     146.838  93.789  -8.627  1.00 37.96      A16S
ATOM   6274  O4* G   A 302     146.420  94.640  -7.539  1.00 37.96      A16S
ATOM   6275  C1* G   A 302     146.485  93.926  -6.321  1.00 37.96      A16S
ATOM   6276  N9  G   A 302     145.126  93.787  -5.812  1.00 21.38      A16S
ATOM   6277  C4  G   A 302     144.765  93.444  -4.533  1.00 21.38      A16S
ATOM   6278  N3  G   A 302     145.604  93.174  -3.521  1.00 21.38      A16S
ATOM   6279  C2  G   A 302     144.959  92.882  -2.415  1.00 21.38      A16S
ATOM   6280  N2  G   A 302     145.642  92.586  -1.313  1.00 21.38      A16S
ATOM   6281  N1  G   A 302     143.606  92.858  -2.309  1.00 21.38      A16S
ATOM   6282  C6  G   A 302     142.727  93.131  -3.334  1.00 21.38      A16S
ATOM   6283  O6  G   A 302     141.527  93.078  -3.129  1.00 21.38      A16S
ATOM   6284  C5  G   A 302     143.397  93.444  -4.528  1.00 21.38      A16S
ATOM   6285  N7  G   A 302     142.899  93.773  -5.780  1.00 21.38      A16S
ATOM   6286  C8  G   A 302     143.960  93.967  -6.508  1.00 21.38      A16S
ATOM   6287  C2* G   A 302     147.090  92.563  -6.634  1.00 37.96      A16S
ATOM   6288  O2* G   A 302     148.494  92.639  -6.510  1.00 37.96      A16S
ATOM   6289  C3* G   A 302     146.685  92.391  -8.081  1.00 37.96      A16S
ATOM   6290  O3* G   A 302     147.501  91.480  -8.763  1.00 37.96      A16S
ATOM   6291  P   A   A 303     146.975  89.998  -8.990  1.00 32.14      A16S
ATOM   6292  O1P A   A 303     147.975  89.365  -9.874  1.00 32.37      A16S
ATOM   6293  O2P A   A 303     145.557  90.053  -9.397  1.00 32.37      A16S
ATOM   6294  O5* A   A 303     147.020  89.357  -7.537  1.00 32.14      A16S
ATOM   6295  C5* A   A 303     148.275  89.158  -6.881  1.00 32.14      A16S
ATOM   6296  C4* A   A 303     148.074  88.799  -5.429  1.00 32.14      A16S
ATOM   6297  O4* A   A 303     147.440  89.901  -4.732  1.00 32.14      A16S
ATOM   6298  C1* A   A 303     146.641  89.396  -3.672  1.00 32.14      A16S
ATOM   6299  N9  A   A 303     145.246  89.696  -3.968  1.00 32.37      A16S
ATOM   6300  C4  A   A 303     144.196  89.615  -3.090  1.00 32.37      A16S
ATOM   6301  N3  A   A 303     144.244  89.288  -1.791  1.00 32.37      A16S
ATOM   6302  C2  A   A 303     143.026  89.294  -1.263  1.00 32.37      A16S
ATOM   6303  N1  A   A 303     141.855  89.568  -1.840  1.00 32.37      A16S
ATOM   6304  C6  A   A 303     141.845  89.896  -3.147  1.00 32.37      A16S
ATOM   6305  N6  A   A 303     140.680  90.171  -3.728  1.00 32.37      A16S
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ATOM   6306  C5  A   A 303     143.073  89.926  -3.820  1.00 32.37      A16S
ATOM   6307  N7  A   A 303     143.409  90.218  -5.132  1.00 32.37      A16S
ATOM   6308  C8  A   A 303     144.706  90.073  -5.165  1.00 32.37      A16S
ATOM   6309  C2* A   A 303     146.822  87.881  -3.648  1.00 32.14      A16S
ATOM   6310  O2* A   A 303     147.834  87.531  -2.715  1.00 32.14      A16S
ATOM   6311  C3* A   A 303     147.196  87.603  -5.098  1.00 32.14      A16S
ATOM   6312  O3* A   A 303     147.852  86.360  -5.233  1.00 32.14      A16S
ATOM   6313  P   U   A 304     147.022  85.091  -5.753  1.00 36.06      A16S
ATOM   6314  O1P U   A 304     148.010  83.993  -5.926  1.00 51.86      A16S
ATOM   6315  O2P U   A 304     146.145  85.495  -6.883  1.00 51.86      A16S
ATOM   6316  O5* U   A 304     146.088  84.684  -4.536  1.00 36.06      A16S
ATOM   6317  C5* U   A 304     146.652  84.362  -3.261  1.00 36.06      A16S
ATOM   6318  C4* U   A 304     145.572  84.333  -2.215  1.00 36.06      A16S
ATOM   6319  O4* U   A 304     144.927  85.631  -2.167  1.00 36.06      A16S
ATOM   6320  C1* U   A 304     143.551  85.472  -1.879  1.00 36.06      A16S
ATOM   6321  N1  U   A 304     142.752  86.044  -2.978  1.00 51.86      A16S
ATOM   6322  C6  U   A 304     143.232  86.111  -4.261  1.00 51.86      A16S
ATOM   6323  C2  U   A 304     141.482  86.508  -2.677  1.00 51.86      A16S
ATOM   6324  O2  U   A 304     141.008  86.478  -1.555  1.00 51.86      A16S
ATOM   6325  N3  U   A 304     140.779  87.008  -3.740  1.00 51.86      A16S
ATOM   6326  C4  U   A 304     141.194  87.091  -5.044  1.00 51.86      A16S
ATOM   6327  O4  U   A 304     140.416  87.527  -5.900  1.00 51.86      A16S
ATOM   6328  C5  U   A 304     142.516  86.603  -5.276  1.00 51.86      A16S
ATOM   6329  C2* U   A 304     143.301  83.981  -1.668  1.00 36.06      A16S
ATOM   6330  O2* U   A 304     143.441  83.693  -0.292  1.00 36.06      A16S
ATOM   6331  C3* U   A 304     144.431  83.369  -2.481  1.00 36.06      A16S
ATOM   6332  O3* U   A 304     144.741  82.045  -2.078  1.00 36.06      A16S
ATOM   6333  P   G   A 305     144.000  80.804  -2.779  1.00 40.21      A16S
ATOM   6334  O1P G   A 305     144.763  79.607  -2.348  1.00 40.89      A16S
ATOM   6335  O2P G   A 305     143.782  81.058  -4.229  1.00 40.89      A16S
ATOM   6336  O5* G   A 305     142.585  80.746  -2.059  1.00 40.21      A16S
ATOM   6337  C5* G   A 305     142.492  80.524  -0.640  1.00 40.21      A16S
ATOM   6338  C4* G   A 305     141.047  80.492  -0.229  1.00 40.21      A16S
ATOM   6339  O4* G   A 305     140.456  81.752  -0.635  1.00 40.21      A16S
ATOM   6340  C1* G   A 305     139.373  81.515  -1.502  1.00 40.21      A16S
ATOM   6341  N9  G   A 305     139.351  82.547  -2.532  1.00 40.89      A16S
ATOM   6342  C4  G   A 305     138.259  83.286  -2.913  1.00 40.89      A16S
ATOM   6343  N3  G   A 305     137.038  83.249  -2.343  1.00 40.89      A16S
ATOM   6344  C2  G   A 305     136.188  84.039  -2.957  1.00 40.89      A16S
ATOM   6345  N2  G   A 305     134.946  84.149  -2.515  1.00 40.89      A16S
ATOM   6346  N1  G   A 305     136.494  84.790  -4.048  1.00 40.89      A16S
ATOM   6347  C6  G   A 305     137.742  84.855  -4.655  1.00 40.89      A16S
ATOM   6348  O6  G   A 305     137.912  85.583  -5.654  1.00 40.89      A16S
ATOM   6349  C5  G   A 305     138.679  84.026  -3.995  1.00 40.89      A16S
ATOM   6350  N7  G   A 305     140.026  83.808  -4.250  1.00 40.89      A16S
ATOM   6351  C8  G   A 305     140.385  82.933  -3.351  1.00 40.89      A16S
ATOM   6352  C2* G   A 305     139.599  80.126  -2.083  1.00 40.21      A16S
ATOM   6353  O2* G   A 305     138.381  79.581  -2.542  1.00 40.21      A16S
ATOM   6354  C3* G   A 305     140.228  79.397  -0.900  1.00 40.21      A16S
ATOM   6355  O3* G   A 305     139.197  78.947  -0.014  1.00 40.21      A16S
ATOM   6356  P   G   A 306     139.330  77.524   0.734  1.00 54.46      A16S
ATOM   6357  O1P G   A 306     140.276  76.681  -0.050  1.00121.54      A16S
ATOM   6358  O2P G   A 306     137.954  77.015   1.014  1.00121.54      A16S
ATOM   6359  O5* G   A 306     140.012  77.915   2.120  1.00 54.46      A16S
ATOM   6360  C5* G   A 306     141.099  77.146   2.649  1.00 54.46      A16S
ATOM   6361  C4* G   A 306     141.214  77.352   4.139  1.00 54.46      A16S
ATOM   6362  O4* G   A 306     141.846  78.619   4.432  1.00 54.46      A16S
ATOM   6363  C1* G   A 306     141.299  79.154   5.620  1.00 54.46      A16S
ATOM   6364  N9  G   A 306     140.752  80.474   5.324  1.00121.54      A16S
ATOM   6365  C4  G   A 306     140.326  81.391   6.251  1.00121.54      A16S
ATOM   6366  N3  G   A 306     140.343  81.227   7.593  1.00121.54      A16S
ATOM   6367  C2  G   A 306     139.875  82.289   8.229  1.00121.54      A16S
ATOM   6368  N2  G   A 306     139.829  82.295   9.577  1.00121.54      A16S
ATOM   6369  N1  G   A 306     139.422  83.421   7.594  1.00121.54      A16S
ATOM   6370  C6  G   A 306     139.394  83.612   6.214  1.00121.54      A16S
ATOM   6371  O6  G   A 306     138.967  84.675   5.748  1.00121.54      A16S
ATOM   6372  C5  G   A 306     139.896  82.478   5.520  1.00121.54      A16S
ATOM   6373  N7  G   A 306     140.050  82.249   4.159  1.00121.54      A16S
ATOM   6374  C8  G   A 306     140.560  81.050   4.090  1.00121.54      A16S
ATOM   6375  C2* G   A 306     140.254  78.167   6.148  1.00 54.46      A16S
ATOM   6376  O2* G   A 306     140.832  77.363   7.156  1.00 54.46      A16S
ATOM   6377  C3* G   A 306     139.903  77.381   4.894  1.00 54.46      A16S
ATOM   6378  O3* G   A 306     139.449  76.066   5.174  1.00 54.46      A16S
ATOM   6379  P   C   A 307     137.870  75.771   5.231  1.00 55.08      A16S
ATOM   6380  O1P C   A 307     137.263  76.416   4.031  1.00 61.80      A16S
ATOM   6381  O2P C   A 307     137.671  74.309   5.453  1.00 61.80      A16S
ATOM   6382  O5* C   A 307     137.420  76.559   6.542  1.00 55.08      A16S
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ATOM   6383  C5* C   A 307     138.020  76.228   7.800  1.00 55.08      A16S
ATOM   6384  C4* C   A 307     137.513  77.111   8.908  1.00 55.08      A16S
ATOM   6385  O4* C   A 307     138.044  78.452   8.789  1.00 55.08      A16S
ATOM   6386  C1* C   A 307     137.144  79.362   9.390  1.00 55.08      A16S
ATOM   6387  N1   C   A 307     136.721  80.365   8.397  1.00 61.80      A16S
ATOM   6388  C6   C   A 307     136.976  80.204   7.065  1.00 61.80      A16S
ATOM   6389  C2   C   A 307     136.039  81.487   8.846  1.00 61.80      A16S
ATOM   6390  O2   C   A 307     135.845  81.622  10.062  1.00 61.80      A16S
ATOM   6391  N3   C   A 307     135.607  82.403   7.957  1.00 61.80      A16S
ATOM   6392  C4   C   A 307     135.843  82.231   6.661  1.00 61.80      A16S
ATOM   6393  N4   C   A 307     135.373  83.154   5.816  1.00 61.80      A16S
ATOM   6394  C5   C   A 307     136.563  81.105   6.172  1.00 61.80      A16S
ATOM   6395  C2* C   A 307     135.968  78.549   9.935  1.00 55.08      A16S
ATOM   6396  O2* C   A 307     136.265  78.228  11.280  1.00 55.08      A16S
ATOM   6397  C3* C   A 307     136.017  77.299   9.068  1.00 55.08      A16S
ATOM   6398  O3* C   A 307     135.435  76.205   9.755  1.00 55.08      A16S
ATOM   6399  P    C   A 308     134.228  75.388   9.079  1.00 41.98      A16S
ATOM   6400  O1P C   A 308     133.786  74.389  10.078  1.00 47.94      A16S
ATOM   6401  O2P C   A 308     134.687  74.931   7.746  1.00 47.94      A16S
ATOM   6402  O5* C   A 308     133.055  76.453   8.886  1.00 41.98      A16S
ATOM   6403  C5* C   A 308     132.295  76.929  10.022  1.00 41.98      A16S
ATOM   6404  C4* C   A 308     131.338  78.041   9.621  1.00 41.98      A16S
ATOM   6405  O4* C   A 308     132.071  79.242   9.262  1.00 41.98      A16S
ATOM   6406  C1* C   A 308     131.395  79.909   8.208  1.00 41.98      A16S
ATOM   6407  N1   C   A 308     132.282  79.952   7.038  1.00 47.94      A16S
ATOM   6408  C6   C   A 308     133.194  78.961   6.821  1.00 47.94      A16S
ATOM   6409  C2   C   A 308     132.168  81.014   6.138  1.00 47.94      A16S
ATOM   6410  O2   C   A 308     131.347  81.922   6.368  1.00 47.94      A16S
ATOM   6411  N3   C   A 308     132.958  81.029   5.043  1.00 47.94      A16S
ATOM   6412  C4   C   A 308     133.835  80.047   4.841  1.00 47.94      A16S
ATOM   6413  N4   C   A 308     134.595  80.098   3.750  1.00 47.94      A16S
ATOM   6414  C5   C   A 308     133.977  78.969   5.747  1.00 47.94      A16S
ATOM   6415  C2* C   A 308     130.115  79.132   7.900  1.00 41.98      A16S
ATOM   6416  O2* C   A 308     129.026  79.694   8.591  1.00 41.98      A16S
ATOM   6417  C3* C   A 308     130.454  77.749   8.424  1.00 41.98      A16S
ATOM   6418  O3* C   A 308     129.281  77.064   8.789  1.00 41.98      A16S
ATOM   6419  P    G   A 309     128.621  76.041   7.749  1.00 34.26      A16S
ATOM   6420  O1P G   A 309     127.633  75.222   8.523  1.00 41.06      A16S
ATOM   6421  O2P G   A 309     129.711  75.360   6.992  1.00 41.06      A16S
ATOM   6422  O5* G   A 309     127.850  76.956   6.695  1.00 34.26      A16S
ATOM   6423  C5* G   A 309     126.540  77.488   6.977  1.00 34.26      A16S
ATOM   6424  C4* G   A 309     126.036  78.236   5.781  1.00 34.26      A16S
ATOM   6425  O4* G   A 309     126.934  79.341   5.532  1.00 34.26      A16S
ATOM   6426  C1* G   A 309     127.124  79.511   4.140  1.00 34.26      A16S
ATOM   6427  N9   G   A 309     128.544  79.357   3.837  1.00 41.06      A16S
ATOM   6428  C4   G   A 309     129.167  79.692   2.655  1.00 41.06      A16S
ATOM   6429  N3   G   A 309     128.577  80.252   1.578  1.00 41.06      A16S
ATOM   6430  C2   G   A 309     129.441  80.481   0.602  1.00 41.06      A16S
ATOM   6431  N2   G   A 309     129.026  81.074  -0.526  1.00 41.06      A16S
ATOM   6432  N1   G   A 309     130.771  80.157   0.663  1.00 41.06      A16S
ATOM   6433  C6   G   A 309     131.395  79.562   1.749  1.00 41.06      A16S
ATOM   6434  O6   G   A 309     132.594  79.287   1.687  1.00 41.06      A16S
ATOM   6435  C5   G   A 309     130.485  79.342   2.823  1.00 41.06      A16S
ATOM   6436  N7   G   A 309     130.695  78.816   4.090  1.00 41.06      A16S
ATOM   6437  C8   G   A 309     129.519  78.844   4.654  1.00 41.06      A16S
ATOM   6438  C2* G   A 309     126.264  78.474   3.430  1.00 34.26      A16S
ATOM   6439  O2* G   A 309     125.040  79.042   3.038  1.00 34.26      A16S
ATOM   6440  C3* G   A 309     126.101  77.423   4.512  1.00 34.26      A16S
ATOM   6441  O3* G   A 309     124.966  76.617   4.308  1.00 34.26      A16S
ATOM   6442  P    G   A 310     125.054  75.431   3.240  1.00 35.24      A16S
ATOM   6443  O1P G   A 310     123.787  74.666   3.219  1.00 32.41      A16S
ATOM   6444  O2P G   A 310     126.339  74.726   3.482  1.00 32.41      A16S
ATOM   6445  O5* G   A 310     125.155  76.192   1.853  1.00 35.24      A16S
ATOM   6446  C5* G   A 310     124.063  76.956   1.373  1.00 35.24      A16S
ATOM   6447  C4* G   A 310     124.326  77.372  -0.037  1.00 35.24      A16S
ATOM   6448  O4* G   A 310     125.454  78.274  -0.070  1.00 35.24      A16S
ATOM   6449  C1* G   A 310     126.142  78.123  -1.301  1.00 35.24      A16S
ATOM   6450  N9   G   A 310     127.544  77.818  -1.025  1.00 32.41      A16S
ATOM   6451  C4   G   A 310     128.574  77.842  -1.939  1.00 32.41      A16S
ATOM   6452  N3   G   A 310     128.466  78.129  -3.254  1.00 32.41      A16S
ATOM   6453  C2   G   A 310     129.635  78.076  -3.870  1.00 32.41      A16S
ATOM   6454  N2   G   A 310     129.718  78.316  -5.189  1.00 32.41      A16S
ATOM   6455  N1   G   A 310     130.809  77.780  -3.249  1.00 32.41      A16S
ATOM   6456  C6   G   A 310     130.947  77.484  -1.905  1.00 32.41      A16S
ATOM   6457  O6   G   A 310     132.066  77.232  -1.453  1.00 32.41      A16S
ATOM   6458  C5   G   A 310     129.700  77.523  -1.226  1.00 32.41      A16S
ATOM   6459  N7   G   A 310     129.388  77.285   0.104  1.00 32.41      A16S
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ATOM   6460  C8  G   A 310     128.100  77.468   0.174  1.00 32.41      A16S
ATOM   6461  C2* G   A 310     125.443  77.011  -2.082  1.00 35.24      A16S
ATOM   6462  O2* G   A 310     124.475  77.519  -2.986  1.00 35.24      A16S
ATOM   6463  C3* G   A 310     124.762  76.262  -0.964  1.00 35.24      A16S
ATOM   6464  O3* G   A 310     123.717  75.485  -1.453  1.00 35.24      A16S
ATOM   6465  P   C   A 311     123.950  73.915  -1.596  1.00 35.87      A16S
ATOM   6466  O1P C   A 311     122.600  73.279  -1.752  1.00 26.24      A16S
ATOM   6467  O2P C   A 311     124.846  73.509  -0.475  1.00 26.24      A16S
ATOM   6468  O5* C   A 311     124.763  73.799  -2.953  1.00 35.87      A16S
ATOM   6469  C5* C   A 311     124.102  74.095  -4.172  1.00 35.87      A16S
ATOM   6470  C4* C   A 311     125.084  74.299  -5.282  1.00 35.87      A16S
ATOM   6471  O4* C   A 311     126.015  75.341  -4.922  1.00 35.87      A16S
ATOM   6472  C1* C   A 311     127.251  75.100  -5.555  1.00 35.87      A16S
ATOM   6473  N1  C   A 311     128.272  74.880  -4.533  1.00 26.24      A16S
ATOM   6474  C6  C   A 311     127.942  74.774  -3.220  1.00 26.24      A16S
ATOM   6475  C2  C   A 311     129.589  74.763  -4.932  1.00 26.24      A16S
ATOM   6476  O2  C   A 311     129.858  74.888  -6.128  1.00 26.24      A16S
ATOM   6477  N3  C   A 311     130.538  74.521  -4.022  1.00 26.24      A16S
ATOM   6478  C4  C   A 311     130.212  74.410  -2.746  1.00 26.24      A16S
ATOM   6479  N4  C   A 311     131.183  74.171  -1.874  1.00 26.24      A16S
ATOM   6480  C5  C   A 311     128.875  74.541  -2.301  1.00 26.24      A16S
ATOM   6481  C2* C   A 311     127.086  73.842  -6.393  1.00 35.87      A16S
ATOM   6482  O2* C   A 311     126.661  74.250  -7.672  1.00 35.87      A16S
ATOM   6483  C3* C   A 311     125.976  73.138  -5.646  1.00 35.87      A16S
ATOM   6484  O3* C   A 311     125.319  72.194  -6.458  1.00 35.87      A16S
ATOM   6485  P   C   A 312     125.726  70.647  -6.335  1.00 29.28      A16S
ATOM   6486  O1P C   A 312     124.701  69.837  -7.066  1.00 37.82      A16S
ATOM   6487  O2P C   A 312     125.989  70.373  -4.901  1.00 37.82      A16S
ATOM   6488  O5* C   A 312     127.114  70.570  -7.106  1.00 29.28      A16S
ATOM   6489  C5* C   A 312     127.178  70.893  -8.495  1.00 29.28      A16S
ATOM   6490  C4* C   A 312     128.599  70.849  -8.972  1.00 29.28      A16S
ATOM   6491  O4* C   A 312     129.376  71.840  -8.265  1.00 29.28      A16S
ATOM   6492  C1* C   A 312     130.670  71.338  -8.017  1.00 29.28      A16S
ATOM   6493  N1  C   A 312     130.847  71.215  -6.562  1.00 37.82      A16S
ATOM   6494  C6  C   A 312     129.801  71.407  -5.696  1.00 37.82      A16S
ATOM   6495  C2  C   A 312     132.118  70.890  -6.077  1.00 37.82      A16S
ATOM   6496  O2  C   A 312     133.049  70.717  -6.896  1.00 37.82      A16S
ATOM   6497  N3  C   A 312     132.300  70.772  -4.736  1.00 37.82      A16S
ATOM   6498  C4  C   A 312     131.275  70.968  -3.905  1.00 37.82      A16S
ATOM   6499  N4  C   A 312     131.503  70.850  -2.605  1.00 37.82      A16S
ATOM   6500  C5  C   A 312     129.970  71.296  -4.375  1.00 37.82      A16S
ATOM   6501  C2* C   A 312     130.771  69.979  -8.699  1.00 29.28      A16S
ATOM   6502  O2* C   A 312     131.274  70.159 -10.005  1.00 29.28      A16S
ATOM   6503  C3* C   A 312     129.320  69.547  -8.711  1.00 29.28      A16S
ATOM   6504  O3* C   A 312     129.068  68.621  -9.732  1.00 29.28      A16S
ATOM   6505  P   A   A 313     129.053  67.062  -9.385  1.00 27.83      A16S
ATOM   6506  O1P A   A 313     128.574  66.342 -10.606  1.00 26.06      A16S
ATOM   6507  O2P A   A 313     128.339  66.897  -8.101  1.00 26.06      A16S
ATOM   6508  O5* A   A 313     130.580  66.701  -9.162  1.00 27.83      A16S
ATOM   6509  C5* A   A 313     131.468  66.689 -10.266  1.00 27.83      A16S
ATOM   6510  C4* A   A 313     132.857  66.469  -9.784  1.00 27.83      A16S
ATOM   6511  O4* A   A 313     133.193  67.535  -8.871  1.00 27.83      A16S
ATOM   6512  C1* A   A 313     133.944  67.021  -7.788  1.00 27.83      A16S
ATOM   6513  N9  A   A 313     133.149  67.185  -6.574  1.00 26.06      A16S
ATOM   6514  C4  A   A 313     133.614  67.047  -5.297  1.00 26.06      A16S
ATOM   6515  N3  A   A 313     134.866  66.767  -4.927  1.00 26.06      A16S
ATOM   6516  C2  A   A 313     134.952  66.706  -3.601  1.00 26.06      A16S
ATOM   6517  N1  A   A 313     133.997  66.867  -2.678  1.00 26.06      A16S
ATOM   6518  C6  A   A 313     132.749  67.134  -3.087  1.00 26.06      A16S
ATOM   6519  N6  A   A 313     131.801  67.256  -2.167  1.00 26.06      A16S
ATOM   6520  C5  A   A 313     132.527  67.250  -4.471  1.00 26.06      A16S
ATOM   6521  N7  A   A 313     131.391  67.534  -5.217  1.00 26.06      A16S
ATOM   6522  C8  A   A 313     131.812  67.485  -6.455  1.00 26.06      A16S
ATOM   6523  C2* A   A 313     134.208  65.552  -8.087  1.00 27.83      A16S
ATOM   6524  O2* A   A 313     135.411  65.453  -8.814  1.00 27.83      A16S
ATOM   6525  C3* A   A 313     133.016  65.219  -8.959  1.00 27.83      A16S
ATOM   6526  O3* A   A 313     133.206  64.086  -9.767  1.00 27.83      A16S
ATOM   6527  P   C   A 314     132.648  62.673  -9.259  1.00 25.14      A16S
ATOM   6528  O1P C   A 314     132.783  61.687 -10.371  1.00 30.94      A16S
ATOM   6529  O2P C   A 314     131.311  62.891  -8.631  1.00 30.94      A16S
ATOM   6530  O5* C   A 314     133.662  62.294  -8.096  1.00 25.14      A16S
ATOM   6531  C5* C   A 314     135.017  62.055  -8.399  1.00 25.14      A16S
ATOM   6532  C4* C   A 314     135.825  62.025  -7.144  1.00 25.14      A16S
ATOM   6533  O4* C   A 314     135.620  63.251  -6.420  1.00 25.14      A16S
ATOM   6534  C1* C   A 314     135.745  63.011  -5.038  1.00 25.14      A16S
ATOM   6535  N1  C   A 314     134.475  63.360  -4.396  1.00 30.94      A16S
ATOM   6536  C6  C   A 314     133.328  63.480  -5.129  1.00 30.94      A16S
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ATOM   6537  C2  C   A 314     134.455  63.558  -3.014  1.00 30.94      A16S
ATOM   6538  O2  C   A 314     135.507  63.438  -2.372  1.00 30.94      A16S
ATOM   6539  N3  C   A 314     133.294  63.867  -2.414  1.00 30.94      A16S
ATOM   6540  C4  C   A 314     132.181  63.970  -3.133  1.00 30.94      A16S
ATOM   6541  N4  C   A 314     131.059  64.267  -2.491  1.00 30.94      A16S
ATOM   6542  C5  C   A 314     132.170  63.774  -4.543  1.00 30.94      A16S
ATOM   6543  C2* C   A 314     136.080  61.535  -4.856  1.00 25.14      A16S
ATOM   6544  O2* C   A 314     137.487  61.437  -4.764  1.00 25.14      A16S
ATOM   6545  C3* C   A 314     135.519  60.934  -6.139  1.00 25.14      A16S
ATOM   6546  O3* C   A 314     136.206  59.750  -6.506  1.00 25.14      A16S
ATOM   6547  P   A   A 315     135.536  58.326  -6.239  1.00 35.47      A16S
ATOM   6548  O1P A   A 315     136.339  57.348  -7.020  1.00 40.04      A16S
ATOM   6549  O2P A   A 315     134.085  58.438  -6.477  1.00 40.04      A16S
ATOM   6550  O5* A   A 315     135.821  58.068  -4.697  1.00 35.47      A16S
ATOM   6551  C5* A   A 315     137.175  58.049  -4.211  1.00 35.47      A16S
ATOM   6552  C4* A   A 315     137.198  57.750  -2.733  1.00 35.47      A16S
ATOM   6553  O4* A   A 315     136.433  58.768  -2.056  1.00 35.47      A16S
ATOM   6554  C1* A   A 315     135.388  58.178  -1.340  1.00 35.47      A16S
ATOM   6555  N9  A   A 315     134.243  59.070  -1.420  1.00 40.04      A16S
ATOM   6556  C4  A   A 315     133.790  59.833  -0.379  1.00 40.04      A16S
ATOM   6557  N3  A   A 315     134.297  59.894   0.861  1.00 40.04      A16S
ATOM   6558  C2  A   A 315     133.603  60.745   1.604  1.00 40.04      A16S
ATOM   6559  N1  A   A 315     132.540  61.485   1.277  1.00 40.04      A16S
ATOM   6560  C6  A   A 315     132.058  61.397   0.022  1.00 40.04      A16S
ATOM   6561  N6  A   A 315     130.998  62.130  -0.307  1.00 40.04      A16S
ATOM   6562  C5  A   A 315     132.706  60.532  -0.868  1.00 40.04      A16S
ATOM   6563  N7  A   A 315     132.475  60.215  -2.200  1.00 40.04      A16S
ATOM   6564  C8  A   A 315     133.415  59.343  -2.478  1.00 40.04      A16S
ATOM   6565  C2* A   A 315     135.169  56.799  -1.949  1.00 35.47      A16S
ATOM   6566  O2* A   A 315     134.611  55.910  -1.007  1.00 35.47      A16S
ATOM   6567  C3* A   A 315     136.588  56.414  -2.339  1.00 35.47      A16S
ATOM   6568  O3* A   A 315     137.287  55.894  -1.199  1.00 35.47      A16S
ATOM   6569  P   G   A 316     137.743  54.346  -1.166  1.00 57.27      A16S
ATOM   6570  O1P G   A 316     136.974  53.609  -2.214  1.00 40.27      A16S
ATOM   6571  O2P G   A 316     137.714  53.872   0.244  1.00 40.27      A16S
ATOM   6572  O5* G   A 316     139.261  54.386  -1.627  1.00 57.27      A16S
ATOM   6573  C5* G   A 316     140.163  55.332  -1.064  1.00 57.27      A16S
ATOM   6574  C4* G   A 316     141.508  55.191  -1.708  1.00 57.27      A16S
ATOM   6575  O4* G   A 316     142.040  53.887  -1.365  1.00 57.27      A16S
ATOM   6576  C1* G   A 316     142.753  53.354  -2.469  1.00 57.27      A16S
ATOM   6577  N9  G   A 316     142.109  52.107  -2.883  1.00 40.27      A16S
ATOM   6578  C4  G   A 316     142.542  51.280  -3.883  1.00 40.27      A16S
ATOM   6579  N3  G   A 316     143.641  51.469  -4.632  1.00 40.27      A16S
ATOM   6580  C2  G   A 316     143.801  50.514  -5.526  1.00 40.27      A16S
ATOM   6581  N2  G   A 316     144.866  50.553  -6.351  1.00 40.27      A16S
ATOM   6582  N1  G   A 316     142.939  49.454  -5.678  1.00 40.27      A16S
ATOM   6583  C6  G   A 316     141.797  49.239  -4.918  1.00 40.27      A16S
ATOM   6584  O6  G   A 316     141.088  48.254  -5.142  1.00 40.27      A16S
ATOM   6585  C5  G   A 316     141.620  50.259  -3.945  1.00 40.27      A16S
ATOM   6586  N7  G   A 316     140.630  50.430  -2.988  1.00 40.27      A16S
ATOM   6587  C8  G   A 316     140.963  51.536  -2.379  1.00 40.27      A16S
ATOM   6588  C2* G   A 316     142.754  54.417  -3.573  1.00 57.27      A16S
ATOM   6589  O2* G   A 316     143.925  55.209  -3.494  1.00 57.27      A16S
ATOM   6590  C3* G   A 316     141.504  55.211  -3.229  1.00 57.27      A16S
ATOM   6591  O3* G   A 316     141.532  56.522  -3.771  1.00 57.27      A16S
ATOM   6592  P   G   A 317     140.860  56.796  -5.206  1.00 47.03      A16S
ATOM   6593  O1P G   A 317     140.932  58.265  -5.487  1.00 51.82      A16S
ATOM   6594  O2P G   A 317     139.538  56.097  -5.271  1.00 51.82      A16S
ATOM   6595  O5* G   A 317     141.822  56.039  -6.219  1.00 47.03      A16S
ATOM   6596  C5* G   A 317     142.920  56.712  -6.836  1.00 47.03      A16S
ATOM   6597  C4* G   A 317     143.355  55.950  -8.056  1.00 47.03      A16S
ATOM   6598  O4* G   A 317     143.799  54.623  -7.662  1.00 47.03      A16S
ATOM   6599  C1* G   A 317     143.400  53.674  -8.633  1.00 47.03      A16S
ATOM   6600  N9  G   A 317     142.443  52.764  -8.017  1.00 51.82      A16S
ATOM   6601  C4  G   A 317     141.937  51.614  -8.569  1.00 51.82      A16S
ATOM   6602  N3  G   A 317     142.264  51.104  -9.767  1.00 51.82      A16S
ATOM   6603  C2  G   A 317     141.587  50.009 -10.033  1.00 51.82      A16S
ATOM   6604  N2  G   A 317     141.788  49.371 -11.185  1.00 51.82      A16S
ATOM   6605  N1  G   A 317     140.662  49.461  -9.194  1.00 51.82      A16S
ATOM   6606  C6  G   A 317     140.301  49.978  -7.960  1.00 51.82      A16S
ATOM   6607  O6  G   A 317     139.424  49.430  -7.295  1.00 51.82      A16S
ATOM   6608  C5  G   A 317     141.028  51.139  -7.655  1.00 51.82      A16S
ATOM   6609  N7  G   A 317     140.984  51.954  -6.534  1.00 51.82      A16S
ATOM   6610  C8  G   A 317     141.841  52.901  -6.791  1.00 51.82      A16S
ATOM   6611  C2* G   A 317     142.753  54.443  -9.779  1.00 47.03      A16S
ATOM   6612  O2* G   A 317     143.757  54.724 -10.729  1.00 47.03      A16S
ATOM   6613  C3* G   A 317     142.250  55.689  -9.061  1.00 47.03      A16S
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ATOM   6614  O3* G   A 317     142.041  56.798  -9.920  1.00 47.03      A16S
ATOM   6615  P   G   A 318     140.594  57.016 -10.587  1.00 64.12      A16S
ATOM   6616  O1P G   A 318     140.698  58.237 -11.424  1.00 54.56      A16S
ATOM   6617  O2P G   A 318     139.542  56.931  -9.523  1.00 54.56      A16S
ATOM   6618  O5* G   A 318     140.435  55.783 -11.583  1.00 64.12      A16S
ATOM   6619  C5* G   A 318     141.287  55.682 -12.730  1.00 64.12      A16S
ATOM   6620  C4* G   A 318     140.927  54.484 -13.562  1.00 64.12      A16S
ATOM   6621  O4* G   A 318     141.270  53.266 -12.855  1.00 64.12      A16S
ATOM   6622  C1* G   A 318     140.331  52.253 -13.176  1.00 64.12      A16S
ATOM   6623  N9  G   A 318     139.587  51.921 -11.967  1.00 54.56      A16S
ATOM   6624  C4  G   A 318     138.749  50.856 -11.798  1.00 54.56      A16S
ATOM   6625  N3  G   A 318     138.483  49.914 -12.717  1.00 54.56      A16S
ATOM   6626  C2  G   A 318     137.650  49.006 -12.257  1.00 54.56      A16S
ATOM   6627  N2  G   A 318     137.302  47.985 -13.040  1.00 54.56      A16S
ATOM   6628  N1  G   A 318     137.104  49.031 -10.993  1.00 54.56      A16S
ATOM   6629  C6  G   A 318     137.366  50.004 -10.032  1.00 54.56      A16S
ATOM   6630  O6  G   A 318     136.828  49.946  -8.914  1.00 54.56      A16S
ATOM   6631  C5  G   A 318     138.267  50.970 -10.515  1.00 54.56      A16S
ATOM   6632  N7  G   A 318     138.795  52.084  -9.890  1.00 54.56      A16S
ATOM   6633  C8  G   A 318     139.572  52.617 -10.788  1.00 54.56      A16S
ATOM   6634  C2* G   A 318     139.380  52.833 -14.220  1.00 64.12      A16S
ATOM   6635  O2* G   A 318     139.866  52.550 -15.519  1.00 64.12      A16S
ATOM   6636  C3* G   A 318     139.461  54.313 -13.898  1.00 64.12      A16S
ATOM   6637  O3* G   A 318     139.022  55.110 -14.969  1.00 64.12      A16S
ATOM   6638  P   G   A 319     137.521  55.669 -14.942  1.00 55.15      A16S
ATOM   6639  O1P G   A 319     137.400  56.681 -16.030  1.00 54.10      A16S
ATOM   6640  O2P G   A 319     137.228  56.056 -13.535  1.00 54.10      A16S
ATOM   6641  O5* G   A 319     136.621  54.416 -15.338  1.00 55.15      A16S
ATOM   6642  C5* G   A 319     136.592  53.978 -16.697  1.00 55.15      A16S
ATOM   6643  C4* G   A 319     135.940  52.627 -16.826  1.00 55.15      A16S
ATOM   6644  O4* G   A 319     136.523  51.696 -15.879  1.00 55.15      A16S
ATOM   6645  C1* G   A 319     135.551  50.738 -15.494  1.00 55.15      A16S
ATOM   6646  N9  G   A 319     135.297  50.881 -14.061  1.00 54.10      A16S
ATOM   6647  C4  G   A 319     134.574  50.018 -13.274  1.00 54.10      A16S
ATOM   6648  N3  G   A 319     133.986  48.881 -13.684  1.00 54.10      A16S
ATOM   6649  C2  G   A 319     133.391  48.254 -12.695  1.00 54.10      A16S
ATOM   6650  N2  G   A 319     132.781  47.090 -12.925  1.00 54.10      A16S
ATOM   6651  N1  G   A 319     133.359  48.716 -11.409  1.00 54.10      A16S
ATOM   6652  C6  G   A 319     133.952  49.889 -10.970  1.00 54.10      A16S
ATOM   6653  O6  G   A 319     133.863  50.218  -9.790  1.00 54.10      A16S
ATOM   6654  C5  G   A 319     134.603  50.562 -12.013  1.00 54.10      A16S
ATOM   6655  N7  G   A 319     135.326  51.744 -12.001  1.00 54.10      A16S
ATOM   6656  C8  G   A 319     135.718  51.896 -13.235  1.00 54.10      A16S
ATOM   6657  C2* G   A 319     134.292  51.041 -16.297  1.00 55.15      A16S
ATOM   6658  O2* G   A 319     134.340  50.320 -17.514  1.00 55.15      A16S
ATOM   6659  C3* G   A 319     134.456  52.527 -16.545  1.00 55.15      A16S
ATOM   6660  O3* G   A 319     133.663  52.952 -17.626  1.00 55.15      A16S
ATOM   6661  P   C   A 320     132.190  53.515 -17.330  1.00 35.81      A16S
ATOM   6662  O1P C   A 320     131.611  53.962 -18.642  1.00 38.84      A16S
ATOM   6663  O2P C   A 320     132.247  54.468 -16.177  1.00 38.84      A16S
ATOM   6664  O5* C   A 320     131.399  52.225 -16.830  1.00 35.81      A16S
ATOM   6665  C5* C   A 320     131.330  51.050 -17.645  1.00 35.81      A16S
ATOM   6666  C4* C   A 320     130.487  49.998 -16.981  1.00 35.81      A16S
ATOM   6667  O4* C   A 320     131.122  49.535 -15.775  1.00 35.81      A16S
ATOM   6668  C1* C   A 320     130.141  49.058 -14.887  1.00 35.81      A16S
ATOM   6669  N1  C   A 320     130.330  49.680 -13.575  1.00 38.84      A16S
ATOM   6670  C6  C   A 320     130.868  50.922 -13.456  1.00 38.84      A16S
ATOM   6671  C2  C   A 320     129.926  48.979 -12.441  1.00 38.84      A16S
ATOM   6672  O2  C   A 320     129.484  47.827 -12.572  1.00 38.84      A16S
ATOM   6673  N3  C   A 320     130.028  49.559 -11.232  1.00 38.84      A16S
ATOM   6674  C4  C   A 320     130.527  50.782 -11.129  1.00 38.84      A16S
ATOM   6675  N4  C   A 320     130.583  51.332  -9.918  1.00 38.84      A16S
ATOM   6676  C5  C   A 320     130.984  51.504 -12.263  1.00 38.84      A16S
ATOM   6677  C2* C   A 320     128.774  49.361 -15.493  1.00 35.81      A16S
ATOM   6678  O2* C   A 320     128.280  48.204 -16.126  1.00 35.81      A16S
ATOM   6679  C3* C   A 320     129.112  50.418 -16.521  1.00 35.81      A16S
ATOM   6680  O3* C   A 320     128.194  50.346 -17.580  1.00 35.81      A16S
ATOM   6681  P   A   A 321     127.052  51.451 -17.696  1.00 38.72      A16S
ATOM   6682  O1P A   A 321     126.631  51.467 -19.118  1.00 40.61      A16S
ATOM   6683  O2P A   A 321     127.564  52.689 -17.066  1.00 40.61      A16S
ATOM   6684  O5* A   A 321     125.871  50.902 -16.785  1.00 38.72      A16S
ATOM   6685  C5* A   A 321     125.099  49.772 -17.196  1.00 38.72      A16S
ATOM   6686  C4* A   A 321     124.834  48.853 -16.025  1.00 38.72      A16S
ATOM   6687  O4* A   A 321     125.960  48.920 -15.110  1.00 38.72      A16S
ATOM   6688  C1* A   A 321     125.535  48.555 -13.819  1.00 38.72      A16S
ATOM   6689  N9  A   A 321     125.959  49.560 -12.843  1.00 40.61      A16S
ATOM   6690  C4  A   A 321     125.921  49.357 -11.485  1.00 40.61      A16S
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ATOM   6691  N3  A   A 321     125.501  48.254 -10.842  1.00 40.61      A16S
ATOM   6692  C2  A   A 321     125.588  48.415  -9.529  1.00 40.61      A16S
ATOM   6693  N1  A   A 321     126.023  49.464  -8.834  1.00 40.61      A16S
ATOM   6694  C6  A   A 321     126.450  50.547  -9.503  1.00 40.61      A16S
ATOM   6695  N6  A   A 321     126.901  51.568  -8.796  1.00 40.61      A16S
ATOM   6696  C5  A   A 321     126.394  50.516 -10.912  1.00 40.61      A16S
ATOM   6697  N7  A   A 321     126.724  51.442 -11.890  1.00 40.61      A16S
ATOM   6698  C8  A   A 321     126.448  50.825 -13.016  1.00 40.61      A16S
ATOM   6699  C2* A   A 321     124.022  48.361 -13.868  1.00 38.72      A16S
ATOM   6700  O2* A   A 321     123.771  46.980 -14.038  1.00 38.72      A16S
ATOM   6701  C3* A   A 321     123.641  49.133 -15.120  1.00 38.72      A16S
ATOM   6702  O3* A   A 321     122.407  48.639 -15.644  1.00 38.72      A16S
ATOM   6703  P   C   A 322     121.013  49.057 -14.935  1.00 38.73      A16S
ATOM   6704  O1P C   A 322     119.886  48.540 -15.765  1.00 47.02      A16S
ATOM   6705  O2P C   A 322     121.054  50.497 -14.582  1.00 47.02      A16S
ATOM   6706  O5* C   A 322     121.026  48.233 -13.576  1.00 38.73      A16S
ATOM   6707  C5* C   A 322     120.973  46.802 -13.604  1.00 38.73      A16S
ATOM   6708  C4* C   A 322     120.807  46.259 -12.217  1.00 38.73      A16S
ATOM   6709  O4* C   A 322     121.974  46.585 -11.441  1.00 38.73      A16S
ATOM   6710  C1* C   A 322     121.591  46.827 -10.104  1.00 38.73      A16S
ATOM   6711  N1  C   A 322     122.012  48.188  -9.741  1.00 47.02      A16S
ATOM   6712  C6  C   A 322     122.256  49.124 -10.706  1.00 47.02      A16S
ATOM   6713  C2  C   A 322     122.161  48.515  -8.379  1.00 47.02      A16S
ATOM   6714  O2  C   A 322     121.930  47.647  -7.511  1.00 47.02      A16S
ATOM   6715  N3  C   A 322     122.549  49.767  -8.046  1.00 47.02      A16S
ATOM   6716  C4  C   A 322     122.775  50.672  -9.000  1.00 47.02      A16S
ATOM   6717  N4  C   A 322     123.135  51.897  -8.623  1.00 47.02      A16S
ATOM   6718  C5  C   A 322     122.635  50.363 -10.383  1.00 47.02      A16S
ATOM   6719  C2* C   A 322     120.081  46.608  -9.996  1.00 38.73      A16S
ATOM   6720  O2* C   A 322     119.840  45.281  -9.586  1.00 38.73      A16S
ATOM   6721  C3* C   A 322     119.638  46.817 -11.430  1.00 38.73      A16S
ATOM   6722  O3* C   A 322     118.456  46.086 -11.710  1.00 38.73      A16S
ATOM   6723  P   U   A 323     117.051  46.858 -11.833  1.00 29.58      A16S
ATOM   6724  O1P U   A 323     116.069  45.900 -12.414  1.00 61.56      A16S
ATOM   6725  O2P U   A 323     117.290  48.168 -12.503  1.00 61.56      A16S
ATOM   6726  O5* U   A 323     116.671  47.163 -10.321  1.00 29.58      A16S
ATOM   6727  C5* U   A 323     116.637  46.107  -9.357  1.00 29.58      A16S
ATOM   6728  C4* U   A 323     116.606  46.675  -7.968  1.00 29.58      A16S
ATOM   6729  O4* U   A 323     117.904  47.194  -7.601  1.00 29.58      A16S
ATOM   6730  C1* U   A 323     117.742  48.312  -6.744  1.00 29.58      A16S
ATOM   6731  N1  U   A 323     118.424  49.466  -7.352  1.00 61.56      A16S
ATOM   6732  C6  U   A 323     118.640  49.536  -8.704  1.00 61.56      A16S
ATOM   6733  C2  U   A 323     118.830  50.489  -6.517  1.00 61.56      A16S
ATOM   6734  O2  U   A 323     118.682  50.454  -5.310  1.00 61.56      A16S
ATOM   6735  N3  U   A 323     119.420  51.553  -7.146  1.00 61.56      A16S
ATOM   6736  C4  U   A 323     119.655  51.689  -8.492  1.00 61.56      A16S
ATOM   6737  O4  U   A 323     120.211  52.703  -8.912  1.00 61.56      A16S
ATOM   6738  C5  U   A 323     119.224  50.583  -9.285  1.00 61.56      A16S
ATOM   6739  C2* U   A 323     116.239  48.542  -6.558  1.00 29.58      A16S
ATOM   6740  O2* U   A 323     115.798  47.953  -5.360  1.00 29.58      A16S
ATOM   6741  C3* U   A 323     115.673  47.847  -7.781  1.00 29.58      A16S
ATOM   6742  O3* U   A 323     114.361  47.416  -7.595  1.00 29.58      A16S
ATOM   6743  P   G   A 324     113.171  48.373  -8.026  1.00 35.31      A16S
ATOM   6744  O1P G   A 324     111.927  47.598  -8.258  1.00 46.62      A16S
ATOM   6745  O2P G   A 324     113.691  49.251  -9.102  1.00 46.62      A16S
ATOM   6746  O5* G   A 324     112.983  49.222  -6.706  1.00 35.31      A16S
ATOM   6747  C5* G   A 324     112.442  50.527  -6.768  1.00 35.31      A16S
ATOM   6748  C4* G   A 324     113.198  51.440  -5.850  1.00 35.31      A16S
ATOM   6749  O4* G   A 324     114.622  51.346  -6.090  1.00 35.31      A16S
ATOM   6750  C1* G   A 324     115.195  52.642  -6.113  1.00 35.31      A16S
ATOM   6751  N9  G   A 324     115.604  52.899  -7.490  1.00 46.62      A16S
ATOM   6752  C4  G   A 324     116.510  53.828  -7.943  1.00 46.62      A16S
ATOM   6753  N3  G   A 324     117.233  54.675  -7.183  1.00 46.62      A16S
ATOM   6754  C2  G   A 324     117.996  55.464  -7.916  1.00 46.62      A16S
ATOM   6755  N2  G   A 324     118.800  56.362  -7.326  1.00 46.62      A16S
ATOM   6756  N1  G   A 324     118.032  55.431  -9.282  1.00 46.62      A16S
ATOM   6757  C6  G   A 324     117.285  54.571 -10.083  1.00 46.62      A16S
ATOM   6758  O6  G   A 324     117.368  54.631 -11.325  1.00 46.62      A16S
ATOM   6759  C5  G   A 324     116.487  53.715  -9.315  1.00 46.62      A16S
ATOM   6760  N7  G   A 324     115.613  52.718  -9.717  1.00 46.62      A16S
ATOM   6761  C8  G   A 324     115.118  52.259  -8.607  1.00 46.62      A16S
ATOM   6762  C2* G   A 324     114.103  53.612  -5.656  1.00 35.31      A16S
ATOM   6763  O2* G   A 324     114.128  53.744  -4.249  1.00 35.31      A16S
ATOM   6764  C3* G   A 324     112.853  52.880  -6.109  1.00 35.31      A16S
ATOM   6765  O3* G   A 324     111.677  53.193  -5.406  1.00 35.31      A16S
ATOM   6766  P   A   A 325     110.393  53.670  -6.224  1.00 36.20      A16S
ATOM   6767  O1P A   A 325     110.321  52.839  -7.453  1.00 39.46      A16S
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ATOM   6768  O2P A   A 325     109.246  53.686  -5.278  1.00 39.46      A16S
ATOM   6769  O5* A   A 325     110.784  55.163  -6.621  1.00 36.20      A16S
ATOM   6770  C5* A   A 325     110.074  55.885  -7.631  1.00 36.20      A16S
ATOM   6771  C4* A   A 325     110.567  57.315  -7.689  1.00 36.20      A16S
ATOM   6772  O4* A   A 325     110.253  58.003  -6.453  1.00 36.20      A16S
ATOM   6773  C1* A   A 325     111.253  58.967  -6.179  1.00 36.20      A16S
ATOM   6774  N9   A   A 325     111.766  58.752  -4.824  1.00 39.46      A16S
ATOM   6775  C4   A   A 325     112.422  59.678  -4.050  1.00 39.46      A16S
ATOM   6776  N3   A   A 325     112.782  60.917  -4.398  1.00 39.46      A16S
ATOM   6777  C2   A   A 325     113.345  61.543  -3.369  1.00 39.46      A16S
ATOM   6778  N1   A   A 325     113.566  61.107  -2.127  1.00 39.46      A16S
ATOM   6779  C6   A   A 325     113.199  59.857  -1.815  1.00 39.46      A16S
ATOM   6780  N6   A   A 325     113.411  59.435  -0.580  1.00 39.46      A16S
ATOM   6781  C5   A   A 325     112.605  59.082  -2.818  1.00 39.46      A16S
ATOM   6782  N7   A   A 325     112.131  57.781  -2.832  1.00 39.46      A16S
ATOM   6783  C8   A   A 325     111.654  57.632  -4.045  1.00 39.46      A16S
ATOM   6784  C2* A   A 325     112.293  58.894  -7.292  1.00 36.20      A16S
ATOM   6785  O2* A   A 325     111.955  59.855  -8.265  1.00 36.20      A16S
ATOM   6786  C3* A   A 325     112.066  57.497  -7.840  1.00 36.20      A16S
ATOM   6787  O3* A   A 325     112.445  57.434  -9.198  1.00 36.20      A16S
ATOM   6788  P    G   A 326     113.833  56.736  -9.593  1.00 33.88      A16S
ATOM   6789  O1P G   A 326     113.950  56.833 -11.074  1.00 57.35      A16S
ATOM   6790  O2P G   A 326     113.865  55.403  -8.947  1.00 57.35      A16S
ATOM   6791  O5* G   A 326     114.943  57.653  -8.907  1.00 33.88      A16S
ATOM   6792  C5* G   A 326     115.126  59.016  -9.324  1.00 33.88      A16S
ATOM   6793  C4* G   A 326     115.913  59.782  -8.296  1.00 33.88      A16S
ATOM   6794  O4* G   A 326     115.218  59.726  -7.030  1.00 33.88      A16S
ATOM   6795  C1* G   A 326     116.156  59.722  -5.976  1.00 33.88      A16S
ATOM   6796  N9   G   A 326     115.822  58.620  -5.077  1.00 57.35      A16S
ATOM   6797  C4   G   A 326     116.125  58.523  -3.742  1.00 57.35      A16S
ATOM   6798  N3   G   A 326     116.788  59.437  -3.012  1.00 57.35      A16S
ATOM   6799  C2   G   A 326     116.933  59.054  -1.759  1.00 57.35      A16S
ATOM   6800  N2   G   A 326     117.562  59.847  -0.888  1.00 57.35      A16S
ATOM   6801  N1   G   A 326     116.471  57.868  -1.264  1.00 57.35      A16S
ATOM   6802  C6   G   A 326     115.784  56.913  -1.997  1.00 57.35      A16S
ATOM   6803  O6   G   A 326     115.406  55.868  -1.449  1.00 57.35      A16S
ATOM   6804  C5   G   A 326     115.618  57.312  -3.340  1.00 57.35      A16S
ATOM   6805  N7   G   A 326     115.000  56.663  -4.394  1.00 57.35      A16S
ATOM   6806  C8   G   A 326     115.143  57.474  -5.401  1.00 57.35      A16S
ATOM   6807  C2* G   A 326     117.569  59.714  -6.587  1.00 33.88      A16S
ATOM   6808  O2* G   A 326     118.136  61.009  -6.561  1.00 33.88      A16S
ATOM   6809  C3* G   A 326     117.312  59.265  -8.021  1.00 33.88      A16S
ATOM   6810  O3* G   A 326     118.223  59.907  -8.912  1.00 33.88      A16S
ATOM   6811  P    A   A 327     119.349  59.049  -9.678  1.00 38.26      A16S
ATOM   6812  O1P A   A 327     120.118  60.021 -10.485  1.00 38.87      A16S
ATOM   6813  O2P A   A 327     118.714  57.892 -10.357  1.00 38.87      A16S
ATOM   6814  O5* A   A 327     120.293  58.507  -8.509  1.00 38.26      A16S
ATOM   6815  C5* A   A 327     121.165  59.407  -7.794  1.00 38.26      A16S
ATOM   6816  C4* A   A 327     122.464  58.722  -7.417  1.00 38.26      A16S
ATOM   6817  O4* A   A 327     122.208  57.765  -6.359  1.00 38.26      A16S
ATOM   6818  C1* A   A 327     122.795  56.530  -6.686  1.00 38.26      A16S
ATOM   6819  N9   A   A 327     122.013  55.463  -6.049  1.00 38.87      A16S
ATOM   6820  C4   A   A 327     121.976  55.227  -4.697  1.00 38.87      A16S
ATOM   6821  N3   A   A 327     122.616  55.909  -3.738  1.00 38.87      A16S
ATOM   6822  C2   A   A 327     122.335  55.400  -2.539  1.00 38.87      A16S
ATOM   6823  N1   A   A 327     121.555  54.363  -2.216  1.00 38.87      A16S
ATOM   6824  C6   A   A 327     120.940  53.694  -3.206  1.00 38.87      A16S
ATOM   6825  N6   A   A 327     120.184  52.653  -2.883  1.00 38.87      A16S
ATOM   6826  C5   A   A 327     121.143  54.140  -4.522  1.00 38.87      A16S
ATOM   6827  N7   A   A 327     120.657  53.698  -5.741  1.00 38.87      A16S
ATOM   6828  C8   A   A 327     121.200  54.513  -6.611  1.00 38.87      A16S
ATOM   6829  C2* A   A 327     122.905  56.517  -8.211  1.00 38.26      A16S
ATOM   6830  O2* A   A 327     123.923  55.625  -8.599  1.00 38.26      A16S
ATOM   6831  C3* A   A 327     123.229  57.982  -8.513  1.00 38.26      A16S
ATOM   6832  O3* A   A 327     124.643  58.187  -8.367  1.00 38.26      A16S
ATOM   6833  P    C   A 328     125.323  59.571  -8.850  1.00 54.52      A16S
ATOM   6834  O1P C   A 328     125.562  60.393  -7.637  1.00 31.30      A16S
ATOM   6835  O2P C   A 328     124.565  60.141  -9.987  1.00 31.30      A16S
ATOM   6836  O5* C   A 328     126.784  59.176  -9.346  1.00 54.52      A16S
ATOM   6837  C5* C   A 328     126.985  58.319 -10.469  1.00 54.52      A16S
ATOM   6838  C4* C   A 328     126.883  56.888 -10.032  1.00 54.52      A16S
ATOM   6839  O4* C   A 328     125.693  56.333 -10.608  1.00 54.52      A16S
ATOM   6840  C1* C   A 328     125.815  54.936 -10.606  1.00 54.52      A16S
ATOM   6841  N1   C   A 328     124.904  54.389 -11.629  1.00 31.30      A16S
ATOM   6842  C6   C   A 328     123.674  53.921 -11.264  1.00 31.30      A16S
ATOM   6843  C2   C   A 328     125.295  54.363 -12.962  1.00 31.30      A16S
ATOM   6844  O2   C   A 328     126.414  54.765 -13.261  1.00 31.30      A16S
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ATOM   6845  N3  C   A 328     124.445  53.892 -13.893  1.00 31.30      A16S
ATOM   6846  C4  C   A 328     123.245  53.443 -13.534  1.00 31.30      A16S
ATOM   6847  N4  C   A 328     122.434  52.987 -14.498  1.00 31.30      A16S
ATOM   6848  C5  C   A 328     122.821  53.443 -12.173  1.00 31.30      A16S
ATOM   6849  C2* C   A 328     127.313  54.584 -10.637  1.00 54.52      A16S
ATOM   6850  O2* C   A 328     127.624  53.705  -9.594  1.00 54.52      A16S
ATOM   6851  C3* C   A 328     127.988  55.952 -10.491  1.00 54.52      A16S
ATOM   6852  O3* C   A 328     129.176  56.030  -9.652  1.00 54.52      A16S
ATOM   6853  P   A   A 329     129.159  55.608  -8.064  1.00 40.30      A16S
ATOM   6854  O1P A   A 329     130.044  56.622  -7.422  1.00 37.77      A16S
ATOM   6855  O2P A   A 329     129.468  54.168  -7.870  1.00 37.77      A16S
ATOM   6856  O5* A   A 329     127.693  55.894  -7.501  1.00 40.30      A16S
ATOM   6857  C5* A   A 329     127.444  57.035  -6.636  1.00 40.30      A16S
ATOM   6858  C4* A   A 329     127.012  56.584  -5.255  1.00 40.30      A16S
ATOM   6859  O4* A   A 329     125.753  55.898  -5.358  1.00 40.30      A16S
ATOM   6860  C1* A   A 329     125.636  55.005  -4.287  1.00 40.30      A16S
ATOM   6861  N9  A   A 329     124.919  53.820  -4.730  1.00 37.77      A16S
ATOM   6862  C4  A   A 329     124.348  52.897  -3.904  1.00 37.77      A16S
ATOM   6863  N3  A   A 329     124.368  52.892  -2.569  1.00 37.77      A16S
ATOM   6864  C2  A   A 329     123.703  51.861  -2.108  1.00 37.77      A16S
ATOM   6865  N1  A   A 329     123.069  50.904  -2.776  1.00 37.77      A16S
ATOM   6866  C6  A   A 329     123.074  50.940  -4.114  1.00 37.77      A16S
ATOM   6867  N6  A   A 329     122.442  49.975  -4.777  1.00 37.77      A16S
ATOM   6868  C5  A   A 329     123.741  51.982  -4.724  1.00 37.77      A16S
ATOM   6869  N7  A   A 329     123.936  52.309  -6.050  1.00 37.77      A16S
ATOM   6870  C8  A   A 329     124.643  53.405  -5.998  1.00 37.77      A16S
ATOM   6871  C2* A   A 329     127.015  54.771  -3.674  1.00 40.30      A16S
ATOM   6872  O2* A   A 329     126.961  55.223  -2.345  1.00 40.30      A16S
ATOM   6873  C3* A   A 329     127.944  55.600  -4.565  1.00 40.30      A16S
ATOM   6874  O3* A   A 329     128.943  56.224  -3.716  1.00 40.30      A16S
ATOM   6875  P   C   A 330     128.804  57.773  -3.234  1.00 36.22      A16S
ATOM   6876  O1P C   A 330     127.419  58.026  -2.781  1.00 58.64      A16S
ATOM   6877  O2P C   A 330     129.439  58.689  -4.209  1.00 58.64      A16S
ATOM   6878  O5* C   A 330     129.688  57.821  -1.924  1.00 36.22      A16S
ATOM   6879  C5* C   A 330     129.502  56.829  -0.920  1.00 36.22      A16S
ATOM   6880  C4* C   A 330     130.825  56.286  -0.465  1.00 36.22      A16S
ATOM   6881  O4* C   A 330     131.629  57.387   0.032  1.00 36.22      A16S
ATOM   6882  C1* C   A 330     132.128  57.083   1.315  1.00 36.22      A16S
ATOM   6883  N1  C   A 330     131.329  57.840   2.290  1.00 58.64      A16S
ATOM   6884  C6  C   A 330     130.074  58.280   1.969  1.00 58.64      A16S
ATOM   6885  C2  C   A 330     131.851  58.075   3.555  1.00 58.64      A16S
ATOM   6886  O2  C   A 330     133.005  57.700   3.813  1.00 58.64      A16S
ATOM   6887  N3  C   A 330     131.086  58.704   4.473  1.00 58.64      A16S
ATOM   6888  C4  C   A 330     129.849  59.094   4.160  1.00 58.64      A16S
ATOM   6889  N4  C   A 330     129.117  59.672   5.106  1.00 58.64      A16S
ATOM   6890  C5  C   A 330     129.306  58.899   2.865  1.00 58.64      A16S
ATOM   6891  C2* C   A 330     131.942  55.576   1.500  1.00 36.22      A16S
ATOM   6892  O2* C   A 330     133.050  54.883   0.959  1.00 36.22      A16S
ATOM   6893  C3* C   A 330     130.669  55.337   0.706  1.00 36.22      A16S
ATOM   6894  O3* C   A 330     130.481  53.996   0.275  1.00 36.22      A16S
ATOM   6895  P   G   A 331     129.343  53.097   0.966  1.00 47.65      A16S
ATOM   6896  O1P G   A 331     129.413  51.741   0.383  1.00 55.96      A16S
ATOM   6897  O2P G   A 331     128.059  53.843   0.950  1.00 55.96      A16S
ATOM   6898  O5* G   A 331     129.827  52.966   2.467  1.00 47.65      A16S
ATOM   6899  C5* G   A 331     130.969  52.175   2.784  1.00 47.65      A16S
ATOM   6900  C4* G   A 331     131.025  51.914   4.265  1.00 47.65      A16S
ATOM   6901  O4* G   A 331     131.355  53.137   4.975  1.00 47.65      A16S
ATOM   6902  C1* G   A 331     130.669  53.159   6.213  1.00 47.65      A16S
ATOM   6903  N9  G   A 331     129.755  54.297   6.211  1.00 55.96      A16S
ATOM   6904  C4  G   A 331     129.050  54.785   7.281  1.00 55.96      A16S
ATOM   6905  N3  G   A 331     129.096  54.315   8.541  1.00 55.96      A16S
ATOM   6906  C2  G   A 331     128.281  54.972   9.338  1.00 55.96      A16S
ATOM   6907  N2  G   A 331     128.196  54.642  10.623  1.00 55.96      A16S
ATOM   6908  N1  G   A 331     127.486  56.007   8.934  1.00 55.96      A16S
ATOM   6909  C6  G   A 331     127.428  56.511   7.643  1.00 55.96      A16S
ATOM   6910  O6  G   A 331     126.677  57.459   7.381  1.00 55.96      A16S
ATOM   6911  C5  G   A 331     128.293  55.814   6.779  1.00 55.96      A16S
ATOM   6912  N7  G   A 331     128.527  55.984   5.425  1.00 55.96      A16S
ATOM   6913  C8  G   A 331     129.405  55.068   5.134  1.00 55.96      A16S
ATOM   6914  C2* G   A 331     129.915  51.831   6.344  1.00 47.65      A16S
ATOM   6915  O2* G   A 331     130.748  50.923   7.032  1.00 47.65      A16S
ATOM   6916  C3* G   A 331     129.728  51.428   4.889  1.00 47.65      A16S
ATOM   6917  O3* G   A 331     129.587  50.023   4.738  1.00 47.65      A16S
ATOM   6918  P   G   A 332     128.156  49.389   4.355  1.00 39.86      A16S
ATOM   6919  O1P G   A 332     127.112  50.446   4.385  1.00 44.98      A16S
ATOM   6920  O2P G   A 332     127.992  48.169   5.177  1.00 44.98      A16S
ATOM   6921  O5* G   A 332     128.335  48.884   2.857  1.00 39.86      A16S
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ATOM   6922  C5* G   A 332     127.635  49.508   1.776  1.00 39.86      A16S
ATOM   6923  C4* G   A 332     126.948  48.470   0.930  1.00 39.86      A16S
ATOM   6924  O4* G   A 332     125.887  49.136   0.223  1.00 39.86      A16S
ATOM   6925  C1* G   A 332     125.758  48.602  -1.076  1.00 39.86      A16S
ATOM   6926  N9   G   A 332     126.195  49.633  -2.014  1.00 44.98      A16S
ATOM   6927  C4   G   A 332     126.051  49.645  -3.386  1.00 44.98      A16S
ATOM   6928  N3   G   A 332     125.429  48.710  -4.133  1.00 44.98      A16S
ATOM   6929  C2   G   A 332     125.490  48.995  -5.424  1.00 44.98      A16S
ATOM   6930  N2   G   A 332     124.905  48.191  -6.307  1.00 44.98      A16S
ATOM   6931  N1   G   A 332     126.128  50.094  -5.941  1.00 44.98      A16S
ATOM   6932  C6   G   A 332     126.783  51.059  -5.191  1.00 44.98      A16S
ATOM   6933  O6   G   A 332     127.353  52.002  -5.753  1.00 44.98      A16S
ATOM   6934  C5   G   A 332     126.700  50.784  -3.809  1.00 44.98      A16S
ATOM   6935  N7   G   A 332     127.200  51.493  -2.730  1.00 44.98      A16S
ATOM   6936  C8   G   A 332     126.875  50.777  -1.691  1.00 44.98      A16S
ATOM   6937  C2* G   A 332     126.660  47.374  -1.127  1.00 39.86      A16S
ATOM   6938  O2* G   A 332     125.975  46.254  -0.608  1.00 39.86      A16S
ATOM   6939  C3* G   A 332     127.749  47.753  -0.150  1.00 39.86      A16S
ATOM   6940  O3* G   A 332     128.365  46.545   0.285  1.00 39.86      A16S
ATOM   6941  P    G   A 333     129.387  45.757  -0.700  1.00 37.74      A16S
ATOM   6942  O1P G   A 333     129.732  44.460  -0.056  1.00 43.93      A16S
ATOM   6943  O2P G   A 333     130.477  46.682  -1.082  1.00 43.93      A16S
ATOM   6944  O5* G   A 333     128.534  45.438  -2.003  1.00 37.74      A16S
ATOM   6945  C5* G   A 333     127.695  44.286  -2.051  1.00 37.74      A16S
ATOM   6946  C4* G   A 333     127.426  43.908  -3.480  1.00 37.74      A16S
ATOM   6947  O4* G   A 333     126.743  45.009  -4.120  1.00 37.74      A16S
ATOM   6948  C1* G   A 333     127.199  45.148  -5.448  1.00 37.74      A16S
ATOM   6949  N9   G   A 333     127.857  46.444  -5.548  1.00 43.93      A16S
ATOM   6950  C4   G   A 333     128.217  47.087  -6.694  1.00 43.93      A16S
ATOM   6951  N3   G   A 333     128.053  46.620  -7.942  1.00 43.93      A16S
ATOM   6952  C2   G   A 333     128.490  47.469  -8.841  1.00 43.93      A16S
ATOM   6953  N2   G   A 333     128.413  47.159 -10.130  1.00 43.93      A16S
ATOM   6954  N1   G   A 333     129.035  48.690  -8.540  1.00 43.93      A16S
ATOM   6955  C6   G   A 333     129.200  49.195  -7.253  1.00 43.93      A16S
ATOM   6956  O6   G   A 333     129.680  50.334  -7.079  1.00 43.93      A16S
ATOM   6957  C5   G   A 333     128.755  48.281  -6.286  1.00 43.93      A16S
ATOM   6958  N7   G   A 333     128.757  48.374  -4.909  1.00 43.93      A16S
ATOM   6959  C8   G   A 333     128.220  47.259  -4.514  1.00 43.93      A16S
ATOM   6960  C2* G   A 333     128.143  43.985  -5.735  1.00 37.74      A16S
ATOM   6961  O2* G   A 333     127.373  42.946  -6.291  1.00 37.74      A16S
ATOM   6962  C3* G   A 333     128.653  43.667  -4.339  1.00 37.74      A16S
ATOM   6963  O3* G   A 333     129.141  42.342  -4.200  1.00 37.74      A16S
ATOM   6964  P    C   A 334     130.685  42.032  -4.516  1.00 40.05      A16S
ATOM   6965  O1P C   A 334     130.905  40.615  -4.155  1.00 52.74      A16S
ATOM   6966  O2P C   A 334     131.572  43.077  -3.939  1.00 52.74      A16S
ATOM   6967  O5* C   A 334     130.731  42.171  -6.096  1.00 40.05      A16S
ATOM   6968  C5* C   A 334     129.841  41.400  -6.910  1.00 40.05      A16S
ATOM   6969  C4* C   A 334     130.140  41.624  -8.366  1.00 40.05      A16S
ATOM   6970  O4* C   A 334     129.630  42.910  -8.804  1.00 40.05      A16S
ATOM   6971  C1* C   A 334     130.499  43.450  -9.782  1.00 40.05      A16S
ATOM   6972  N1   C   A 334     130.987  44.760  -9.305  1.00 52.74      A16S
ATOM   6973  C6   C   A 334     130.830  45.137  -8.002  1.00 52.74      A16S
ATOM   6974  C2   C   A 334     131.607  45.624 -10.216  1.00 52.74      A16S
ATOM   6975  O2   C   A 334     131.754  45.260 -11.394  1.00 52.74      A16S
ATOM   6976  N3   C   A 334     132.031  46.832  -9.793  1.00 52.74      A16S
ATOM   6977  C4   C   A 334     131.857  47.191  -8.526  1.00 52.74      A16S
ATOM   6978  N4   C   A 334     132.273  48.394  -8.164  1.00 52.74      A16S
ATOM   6979  C5   C   A 334     131.245  46.332  -7.577  1.00 52.74      A16S
ATOM   6980  C2* C   A 334     131.617  42.430 -10.029  1.00 40.05      A16S
ATOM   6981  O2* C   A 334     131.289  41.596 -11.130  1.00 40.05      A16S
ATOM   6982  C3* C   A 334     131.613  41.652  -8.724  1.00 40.05      A16S
ATOM   6983  O3* C   A 334     132.148  40.350  -8.863  1.00 40.05      A16S
ATOM   6984  P    C   A 335     133.679  40.086  -8.470  1.00 41.98      A16S
ATOM   6985  O1P C   A 335     133.827  38.618  -8.376  1.00 48.39      A16S
ATOM   6986  O2P C   A 335     134.031  40.939  -7.307  1.00 48.39      A16S
ATOM   6987  O5* C   A 335     134.495  40.608  -9.736  1.00 41.98      A16S
ATOM   6988  C5* C   A 335     134.183  40.123 -11.060  1.00 41.98      A16S
ATOM   6989  C4* C   A 335     134.830  40.989 -12.109  1.00 41.98      A16S
ATOM   6990  O4* C   A 335     134.170  42.276 -12.171  1.00 41.98      A16S
ATOM   6991  C1* C   A 335     135.123  43.288 -12.449  1.00 41.98      A16S
ATOM   6992  N1   C   A 335     135.148  44.226 -11.316  1.00 48.39      A16S
ATOM   6993  C6   C   A 335     134.922  43.796 -10.040  1.00 48.39      A16S
ATOM   6994  C2   C   A 335     135.424  45.561 -11.566  1.00 48.39      A16S
ATOM   6995  O2   C   A 335     135.609  45.918 -12.729  1.00 48.39      A16S
ATOM   6996  N3   C   A 335     135.484  46.431 -10.539  1.00 48.39      A16S
ATOM   6997  C4   C   A 335     135.277  46.001  -9.297  1.00 48.39      A16S
ATOM   6998  N4   C   A 335     135.361  46.887  -8.308  1.00 48.39      A16S
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ATOM   6999  C5  C   A 335     134.978  44.642  -9.011  1.00 48.39      A16S
ATOM   7000  C2* C   A 335     136.481  42.611 -12.633  1.00 41.98      A16S
ATOM   7001  O2* C   A 335     136.760  42.388 -14.002  1.00 41.98      A16S
ATOM   7002  C3* C   A 335     136.281  41.324 -11.852  1.00 41.98      A16S
ATOM   7003  O3* C   A 335     137.145  40.308 -12.274  1.00 41.98      A16S
ATOM   7004  P   C   A 336     138.540  40.128 -11.526  1.00 52.91      A16S
ATOM   7005  O1P C   A 336     139.068  38.820 -11.956  1.00 69.49      A16S
ATOM   7006  O2P C   A 336     138.359  40.410 -10.081  1.00 69.49      A16S
ATOM   7007  O5* C   A 336     139.437  41.276 -12.151  1.00 52.91      A16S
ATOM   7008  C5* C   A 336     139.749  41.264 -13.547  1.00 52.91      A16S
ATOM   7009  C4* C   A 336     140.577  42.467 -13.901  1.00 52.91      A16S
ATOM   7010  O4* C   A 336     139.751  43.651 -13.796  1.00 52.91      A16S
ATOM   7011  C1* C   A 336     140.536  44.735 -13.322  1.00 52.91      A16S
ATOM   7012  N1  C   A 336     139.960  45.222 -12.047  1.00 69.49      A16S
ATOM   7013  C6  C   A 336     138.952  44.540 -11.425  1.00 69.49      A16S
ATOM   7014  C2  C   A 336     140.468  46.404 -11.477  1.00 69.49      A16S
ATOM   7015  O2  C   A 336     141.377  47.011 -12.058  1.00 69.49      A16S
ATOM   7016  N3  C   A 336     139.951  46.850 -10.311  1.00 69.49      A16S
ATOM   7017  C4  C   A 336     138.971  46.171  -9.715  1.00 69.49      A16S
ATOM   7018  N4  C   A 336     138.497  46.641  -8.562  1.00 69.49      A16S
ATOM   7019  C5  C   A 336     138.433  44.976 -10.271  1.00 69.49      A16S
ATOM   7020  C2* C   A 336     141.974  44.236 -13.176  1.00 52.91      A16S
ATOM   7021  O2* C   A 336     142.697  44.491 -14.363  1.00 52.91      A16S
ATOM   7022  C3* C   A 336     141.760  42.747 -12.985  1.00 52.91      A16S
ATOM   7023  O3* C   A 336     142.924  42.022 -13.334  1.00 52.91      A16S
ATOM   7024  P   C   A 337     144.063  41.785 -12.228  1.00 54.38      A16S
ATOM   7025  O1P C   A 337     145.196  41.125 -12.917  1.00 55.62      A16S
ATOM   7026  O2P C   A 337     143.453  41.140 -11.037  1.00 55.62      A16S
ATOM   7027  O5* C   A 337     144.530  43.259 -11.846  1.00 54.38      A16S
ATOM   7028  C5* C   A 337     145.206  44.083 -12.816  1.00 54.38      A16S
ATOM   7029  C4* C   A 337     145.762  45.328 -12.167  1.00 54.38      A16S
ATOM   7030  O4* C   A 337     144.689  46.231 -11.808  1.00 54.38      A16S
ATOM   7031  C1* C   A 337     145.016  46.909 -10.608  1.00 54.38      A16S
ATOM   7032  N1  C   A 337     144.005  46.559  -9.595  1.00 55.62      A16S
ATOM   7033  C6  C   A 337     143.495  45.294  -9.528  1.00 55.62      A16S
ATOM   7034  C2  C   A 337     143.569  47.542  -8.700  1.00 55.62      A16S
ATOM   7035  O2  C   A 337     144.048  48.685  -8.777  1.00 55.62      A16S
ATOM   7036  N3  C   A 337     142.631  47.225  -7.776  1.00 55.62      A16S
ATOM   7037  C4  C   A 337     142.131  45.990  -7.731  1.00 55.62      A16S
ATOM   7038  N4  C   A 337     141.189  45.726  -6.821  1.00 55.62      A16S
ATOM   7039  C5  C   A 337     142.566  44.970  -8.622  1.00 55.62      A16S
ATOM   7040  C2* C   A 337     146.426  46.479 -10.207  1.00 54.38      A16S
ATOM   7041  O2* C   A 337     147.369  47.388 -10.735  1.00 54.38      A16S
ATOM   7042  C3* C   A 337     146.524  45.117 -10.874  1.00 54.38      A16S
ATOM   7043  O3* C   A 337     147.863  44.720 -11.092  1.00 54.38      A16S
ATOM   7044  P   A   A 338     148.621  43.881  -9.959  1.00 75.19      A16S
ATOM   7045  O1P A   A 338     149.937  43.466 -10.515  1.00 64.37      A16S
ATOM   7046  O2P A   A 338     147.681  42.848  -9.429  1.00 64.37      A16S
ATOM   7047  O5* A   A 338     148.880  44.960  -8.817  1.00 75.19      A16S
ATOM   7048  C5* A   A 338     149.731  46.086  -9.066  1.00 75.19      A16S
ATOM   7049  C4* A   A 338     149.674  47.053  -7.912  1.00 75.19      A16S
ATOM   7050  O4* A   A 338     148.364  47.660  -7.841  1.00 75.19      A16S
ATOM   7051  C1* A   A 338     148.035  47.923  -6.491  1.00 75.19      A16S
ATOM   7052  N9  A   A 338     146.809  47.204  -6.162  1.00 64.37      A16S
ATOM   7053  C4  A   A 338     145.999  47.495  -5.098  1.00 64.37      A16S
ATOM   7054  N3  A   A 338     146.186  48.456  -4.178  1.00 64.37      A16S
ATOM   7055  C2  A   A 338     145.191  48.459  -3.304  1.00 64.37      A16S
ATOM   7056  N1  A   A 338     144.114  47.673  -3.247  1.00 64.37      A16S
ATOM   7057  C6  A   A 338     143.961  46.716  -4.187  1.00 64.37      A16S
ATOM   7058  N6  A   A 338     142.886  45.929  -4.128  1.00 64.37      A16S
ATOM   7059  C5  A   A 338     144.947  46.607  -5.171  1.00 64.37      A16S
ATOM   7060  N7  A   A 338     145.097  45.756  -6.254  1.00 64.37      A16S
ATOM   7061  C8  A   A 338     146.217  46.148  -6.807  1.00 64.37      A16S
ATOM   7062  C2* A   A 338     149.208  47.481  -5.627  1.00 75.19      A16S
ATOM   7063  O2* A   A 338     150.011  48.609  -5.358  1.00 75.19      A16S
ATOM   7064  C3* A   A 338     149.877  46.460  -6.534  1.00 75.19      A16S
ATOM   7065  O3* A   A 338     151.239  46.287  -6.240  1.00 75.19      A16S
ATOM   7066  P   C   A 339     151.686  45.035  -5.352  1.00 78.50      A16S
ATOM   7067  O1P C   A 339     153.165  44.996  -5.436  1.00 52.87      A16S
ATOM   7068  O2P C   A 339     150.879  43.846  -5.757  1.00 52.87      A16S
ATOM   7069  O5* C   A 339     151.294  45.449  -3.865  1.00 78.50      A16S
ATOM   7070  C5* C   A 339     151.992  46.521  -3.207  1.00 78.50      A16S
ATOM   7071  C4* C   A 339     151.252  46.960  -1.970  1.00 78.50      A16S
ATOM   7072  O4* C   A 339     149.934  47.449  -2.324  1.00 78.50      A16S
ATOM   7073  C1* C   A 339     149.027  47.166  -1.272  1.00 78.50      A16S
ATOM   7074  N1  C   A 339     147.962  46.292  -1.782  1.00 52.87      A16S
ATOM   7075  C6  C   A 339     148.183  45.457  -2.837  1.00 52.87      A16S
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ATOM   7076  C2  C   A 339     146.712  46.324  -1.161  1.00 52.87      A16S
ATOM   7077  O2  C   A 339     146.536  47.092  -0.199  1.00 52.87      A16S
ATOM   7078  N3  C   A 339     145.725  45.521  -1.623  1.00 52.87      A16S
ATOM   7079  C4  C   A 339     145.950  44.720  -2.663  1.00 52.87      A16S
ATOM   7080  N4  C   A 339     144.945  43.966  -3.104  1.00 52.87      A16S
ATOM   7081  C5  C   A 339     147.215  44.663  -3.304  1.00 52.87      A16S
ATOM   7082  C2* C   A 339     149.811  46.472  -0.163  1.00 78.50      A16S
ATOM   7083  O2* C   A 339     150.243  47.428   0.785  1.00 78.50      A16S
ATOM   7084  C3* C   A 339     150.975  45.887  -0.940  1.00 78.50      A16S
ATOM   7085  O3* C   A 339     152.072  45.647  -0.093  1.00 78.50      A16S
ATOM   7086  P   U   A 340     152.199  44.222   0.626  1.00 67.10      A16S
ATOM   7087  O1P U   A 340     153.537  44.202   1.262  1.00 60.56      A16S
ATOM   7088  O2P U   A 340     151.830  43.171  -0.343  1.00 60.56      A16S
ATOM   7089  O5* U   A 340     151.074  44.243   1.748  1.00 67.10      A16S
ATOM   7090  C5* U   A 340     151.207  45.096   2.891  1.00 67.10      A16S
ATOM   7091  C4* U   A 340     150.010  44.953   3.790  1.00 67.10      A16S
ATOM   7092  O4* U   A 340     148.823  45.365   3.073  1.00 67.10      A16S
ATOM   7093  C1* U   A 340     147.725  44.568   3.470  1.00 67.10      A16S
ATOM   7094  N1  U   A 340     147.194  43.895   2.280  1.00 60.56      A16S
ATOM   7095  C6  U   A 340     147.927  43.808   1.119  1.00 60.56      A16S
ATOM   7096  C2  U   A 340     145.926  43.359   2.363  1.00 60.56      A16S
ATOM   7097  O2  U   A 340     145.249  43.403   3.375  1.00 60.56      A16S
ATOM   7098  N3  U   A 340     145.476  42.764   1.217  1.00 60.56      A16S
ATOM   7099  C4  U   A 340     146.148  42.641   0.025  1.00 60.56      A16S
ATOM   7100  O4  U   A 340     145.621  42.025  -0.900  1.00 60.56      A16S
ATOM   7101  C5  U   A 340     147.461  43.218   0.017  1.00 60.56      A16S
ATOM   7102  C2* U   A 340     148.211  43.600   4.545  1.00 67.10      A16S
ATOM   7103  O2* U   A 340     147.920  44.145   5.820  1.00 67.10      A16S
ATOM   7104  C3* U   A 340     149.702  43.542   4.246  1.00 67.10      A16S
ATOM   7105  O3* U   A 340     150.472  43.192   5.380  1.00 67.10      A16S
ATOM   7106  P   C   A 341     150.892  41.662   5.596  1.00 79.91      A16S
ATOM   7107  O1P C   A 341     151.866  41.649   6.716  1.00 81.71      A16S
ATOM   7108  O2P C   A 341     151.283  41.108   4.274  1.00 81.71      A16S
ATOM   7109  O5* C   A 341     149.541  40.964   6.075  1.00 79.91      A16S
ATOM   7110  C5* C   A 341     148.912  41.371   7.300  1.00 79.91      A16S
ATOM   7111  C4* C   A 341     147.516  40.808   7.396  1.00 79.91      A16S
ATOM   7112  O4* C   A 341     146.684  41.342   6.338  1.00 79.91      A16S
ATOM   7113  C1* C   A 341     145.734  40.367   5.937  1.00 79.91      A16S
ATOM   7114  N1  C   A 341     145.939  40.057   4.507  1.00 81.71      A16S
ATOM   7115  C6  C   A 341     147.110  40.381   3.880  1.00 81.71      A16S
ATOM   7116  C2  C   A 341     144.906  39.422   3.792  1.00 81.71      A16S
ATOM   7117  O2  C   A 341     143.847  39.143   4.376  1.00 81.71      A16S
ATOM   7118  N3  C   A 341     145.091  39.133   2.484  1.00 81.71      A16S
ATOM   7119  C4  C   A 341     146.238  39.462   1.883  1.00 81.71      A16S
ATOM   7120  N4  C   A 341     146.376  39.170   0.585  1.00 81.71      A16S
ATOM   7121  C5  C   A 341     147.299  40.108   2.584  1.00 81.71      A16S
ATOM   7122  C2* C   A 341     145.929  39.148   6.831  1.00 79.91      A16S
ATOM   7123  O2* C   A 341     145.041  39.263   7.925  1.00 79.91      A16S
ATOM   7124  C3* C   A 341     147.384  39.307   7.245  1.00 79.91      A16S
ATOM   7125  O3* C   A 341     147.659  38.649   8.462  1.00 79.91      A16S
ATOM   7126  P   C   A 342     148.099  37.109   8.441  1.00110.20      A16S
ATOM   7127  O1P C   A 342     148.569  36.812   9.818  1.00 47.38      A16S
ATOM   7128  O2P C   A 342     148.996  36.861   7.277  1.00 47.38      A16S
ATOM   7129  O5* C   A 342     146.737  36.325   8.197  1.00110.20      A16S
ATOM   7130  C5* C   A 342     145.802  36.140   9.270  1.00110.20      A16S
ATOM   7131  C4* C   A 342     144.707  35.197   8.847  1.00110.20      A16S
ATOM   7132  O4* C   A 342     143.950  35.805   7.766  1.00110.20      A16S
ATOM   7133  C1* C   A 342     143.532  34.803   6.855  1.00110.20      A16S
ATOM   7134  N1  C   A 342     144.187  35.032   5.558  1.00 47.38      A16S
ATOM   7135  C6  C   A 342     145.338  35.766   5.459  1.00 47.38      A16S
ATOM   7136  C2  C   A 342     143.617  34.463   4.416  1.00 47.38      A16S
ATOM   7137  O2  C   A 342     142.585  33.793   4.534  1.00 47.38      A16S
ATOM   7138  N3  C   A 342     144.204  34.645   3.216  1.00 47.38      A16S
ATOM   7139  C4  C   A 342     145.325  35.358   3.126  1.00 47.38      A16S
ATOM   7140  N4  C   A 342     145.861  35.512   1.913  1.00 47.38      A16S
ATOM   7141  C5  C   A 342     145.940  35.948   4.274  1.00 47.38      A16S
ATOM   7142  C2* C   A 342     143.978  33.457   7.412  1.00110.20      A16S
ATOM   7143  O2* C   A 342     142.931  32.861   8.153  1.00110.20      A16S
ATOM   7144  C3* C   A 342     145.167  33.871   8.262  1.00110.20      A16S
ATOM   7145  O3* C   A 342     145.520  32.890   9.217  1.00110.20      A16S
ATOM   7146  P   U   A 343     146.633  31.798   8.832  1.00 96.92      A16S
ATOM   7147  O1P U   A 343     147.878  32.523   8.482  1.00133.85      A16S
ATOM   7148  O2P U   A 343     146.656  30.768   9.900  1.00133.85      A16S
ATOM   7149  O5* U   A 343     146.076  31.129   7.499  1.00 96.92      A16S
ATOM   7150  C5* U   A 343     144.845  30.401   7.524  1.00 96.92      A16S
ATOM   7151  C4* U   A 343     144.592  29.739   6.198  1.00 96.92      A16S
ATOM   7152  O4* U   A 343     144.360  30.737   5.172  1.00 96.92      A16S
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ATOM	7153	C1*	U	A	343	144.773	30.226	3.917	1.00	96.92	A16S
ATOM	7154	N1	U	A	343	145.773	31.124	3.319	1.00	133.85	A16S
ATOM	7155	C6	U	A	343	146.639	31.870	4.088	1.00	133.85	A16S
ATOM	7156	C2	U	A	343	145.827	31.179	1.937	1.00	133.85	A16S
ATOM	7157	O2	U	A	343	145.068	30.549	1.220	1.00	133.85	A16S
ATOM	7158	N3	U	A	343	146.803	31.996	1.424	1.00	133.85	A16S
ATOM	7159	C4	U	A	343	147.709	32.753	2.133	1.00	133.85	A16S
ATOM	7160	O4	U	A	343	148.559	33.405	1.524	1.00	133.85	A16S
ATOM	7161	C5	U	A	343	147.580	32.660	3.557	1.00	133.85	A16S
ATOM	7162	C2*	U	A	343	145.339	28.826	4.149	1.00	96.92	A16S
ATOM	7163	O2*	U	A	343	144.323	27.888	3.856	1.00	96.92	A16S
ATOM	7164	C3*	U	A	343	145.707	28.878	5.631	1.00	96.92	A16S
ATOM	7165	O3*	U	A	343	145.763	27.589	6.249	1.00	96.92	A16S
ATOM	7166	P	A	A	344	147.061	26.651	6.038	1.00	96.35	A16S
ATOM	7167	O1P	A	A	344	148.259	27.522	5.896	1.00	112.20	A16S
ATOM	7168	O2P	A	A	344	147.029	25.618	7.110	1.00	112.20	A16S
ATOM	7169	O5*	A	A	344	146.784	25.958	4.628	1.00	96.35	A16S
ATOM	7170	C5*	A	A	344	147.469	24.756	4.211	1.00	96.35	A16S
ATOM	7171	C4*	A	A	344	146.460	23.699	3.827	1.00	96.35	A16S
ATOM	7172	O4*	A	A	344	145.864	23.178	5.035	1.00	96.35	A16S
ATOM	7173	C1*	A	A	344	144.476	22.987	4.851	1.00	96.35	A16S
ATOM	7174	N9	A	A	344	143.791	23.706	5.921	1.00	112.20	A16S
ATOM	7175	C4	A	A	344	142.934	23.151	6.835	1.00	112.20	A16S
ATOM	7176	N3	A	A	344	142.539	21.869	6.903	1.00	112.20	A16S
ATOM	7177	C2	A	A	344	141.716	21.688	7.931	1.00	112.20	A16S
ATOM	7178	N1	A	A	344	141.274	22.577	8.833	1.00	112.20	A16S
ATOM	7179	C6	A	A	344	141.692	23.859	8.735	1.00	112.20	A16S
ATOM	7180	N6	A	A	344	141.255	24.746	9.638	1.00	112.20	A16S
ATOM	7181	C5	A	A	344	142.569	24.179	7.683	1.00	112.20	A16S
ATOM	7182	N7	A	A	344	143.175	25.368	7.301	1.00	112.20	A16S
ATOM	7183	C8	A	A	344	143.882	25.035	6.251	1.00	112.20	A16S
ATOM	7184	C2*	A	A	344	144.096	23.370	3.415	1.00	96.35	A16S
ATOM	7185	O2*	A	A	344	143.803	22.224	2.644	1.00	96.35	A16S
ATOM	7186	C3*	A	A	344	145.299	24.209	2.981	1.00	96.35	A16S
ATOM	7187	O3*	A	A	344	145.615	24.259	1.575	1.00	96.35	A16S
ATOM	7188	P	C	A	345	146.043	22.924	0.767	1.00	106.48	A16S
ATOM	7189	O1P	C	A	345	147.232	22.332	1.440	1.00	107.54	A16S
ATOM	7190	O2P	C	A	345	144.845	22.080	0.504	1.00	107.54	A16S
ATOM	7191	O5*	C	A	345	146.538	23.487	-0.640	1.00	106.48	A16S
ATOM	7192	C5*	C	A	345	145.591	23.976	-1.608	1.00	106.48	A16S
ATOM	7193	C4*	C	A	345	146.111	25.225	-2.284	1.00	106.48	A16S
ATOM	7194	O4*	C	A	345	146.235	26.302	-1.316	1.00	106.48	A16S
ATOM	7195	C1*	C	A	345	147.523	26.874	-1.415	1.00	106.48	A16S
ATOM	7196	N1	C	A	345	147.937	27.390	-0.095	1.00	107.54	A16S
ATOM	7197	C6	C	A	345	147.646	26.709	1.054	1.00	107.54	A16S
ATOM	7198	C2	C	A	345	148.634	28.611	-0.034	1.00	107.54	A16S
ATOM	7199	O2	C	A	345	148.907	29.210	-1.091	1.00	107.54	A16S
ATOM	7200	N3	C	A	345	148.993	29.106	1.175	1.00	107.54	A16S
ATOM	7201	C4	C	A	345	148.693	28.433	2.288	1.00	107.54	A16S
ATOM	7202	N4	C	A	345	149.058	28.960	3.457	1.00	107.54	A16S
ATOM	7203	C5	C	A	345	148.002	27.190	2.253	1.00	107.54	A16S
ATOM	7204	C2*	C	A	345	148.418	25.791	-2.012	1.00	106.48	A16S
ATOM	7205	O2*	C	A	345	149.532	26.383	-2.645	1.00	106.48	A16S
ATOM	7206	C3*	C	A	345	147.459	25.115	-2.990	1.00	106.48	A16S
ATOM	7207	O3*	C	A	345	147.408	25.890	-4.182	1.00	106.48	A16S
ATOM	7208	P	G	A	346	147.188	25.167	-5.600	1.00	97.17	A16S
ATOM	7209	O1P	G	A	346	147.714	26.069	-6.663	1.00	102.24	A16S
ATOM	7210	O2P	G	A	346	147.698	23.775	-5.502	1.00	102.24	A16S
ATOM	7211	O5*	G	A	346	145.603	25.103	-5.759	1.00	97.17	A16S
ATOM	7212	C5*	G	A	346	144.807	26.307	-5.836	1.00	97.17	A16S
ATOM	7213	C4*	G	A	346	143.342	25.966	-5.705	1.00	97.17	A16S
ATOM	7214	O4*	G	A	346	143.161	25.123	-4.545	1.00	97.17	A16S
ATOM	7215	C1*	G	A	346	141.911	25.393	-3.952	1.00	97.17	A16S
ATOM	7216	N9	G	A	346	142.113	25.584	-2.518	1.00	102.24	A16S
ATOM	7217	C4	G	A	346	142.822	26.588	-1.892	1.00	102.24	A16S
ATOM	7218	N3	G	A	346	143.459	27.611	-2.499	1.00	102.24	A16S
ATOM	7219	C2	G	A	346	144.053	28.409	-1.628	1.00	102.24	A16S
ATOM	7220	N2	G	A	346	144.735	29.477	-2.061	1.00	102.24	A16S
ATOM	7221	N1	G	A	346	144.022	28.217	-0.271	1.00	102.24	A16S
ATOM	7222	C6	G	A	346	143.370	27.173	0.374	1.00	102.24	A16S
ATOM	7223	O6	G	A	346	143.394	27.097	1.605	1.00	102.24	A16S
ATOM	7224	C5	G	A	346	142.736	26.309	-0.545	1.00	102.24	A16S
ATOM	7225	N7	G	A	346	141.991	25.160	-0.325	1.00	102.24	A16S
ATOM	7226	C8	G	A	346	141.639	24.768	-1.519	1.00	102.24	A16S
ATOM	7227	C2*	G	A	346	141.233	26.522	-4.735	1.00	97.17	A16S
ATOM	7228	O2*	G	A	346	140.274	25.963	-5.607	1.00	97.17	A16S
ATOM	7229	C3*	G	A	346	142.401	27.141	-5.500	1.00	97.17	A16S

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ATOM   7230  O3*  G   A 346     141.961  27.626  -6.763  1.00 97.17      A16S
ATOM   7231  P    G   A 347     141.869  29.209  -7.033  1.00115.50      A16S
ATOM   7232  O1P  G   A 347     143.225  29.780  -6.823  1.00 82.69      A16S
ATOM   7233  O2P  G   A 347     141.180  29.413  -8.334  1.00 82.69      A16S
ATOM   7234  O5*  G   A 347     140.919  29.767  -5.882  1.00115.50      A16S
ATOM   7235  C5*  G   A 347     139.603  29.233  -5.693  1.00115.50      A16S
ATOM   7236  C4*  G   A 347     139.099  29.559  -4.307  1.00115.50      A16S
ATOM   7237  O4*  G   A 347     140.117  29.186  -3.336  1.00115.50      A16S
ATOM   7238  C1*  G   A 347     140.084  30.078  -2.233  1.00115.50      A16S
ATOM   7239  N9   G   A 347     141.324  30.848  -2.202  1.00 82.69      A16S
ATOM   7240  C4   G   A 347     141.866  31.470  -1.101  1.00 82.69      A16S
ATOM   7241  N3   G   A 347     141.389  31.407   0.160  1.00 82.69      A16S
ATOM   7242  C2   G   A 347     142.104  32.135   0.999  1.00 82.69      A16S
ATOM   7243  N2   G   A 347     141.777  32.167   2.294  1.00 82.69      A16S
ATOM   7244  N1   G   A 347     143.195  32.882   0.631  1.00 82.69      A16S
ATOM   7245  C6   G   A 347     143.705  32.972  -0.661  1.00 82.69      A16S
ATOM   7246  O6   G   A 347     144.689  33.695  -0.887  1.00 82.69      A16S
ATOM   7247  C5   G   A 347     142.955  32.172  -1.575  1.00 82.69      A16S
ATOM   7248  N7   G   A 347     143.126  31.958  -2.937  1.00 82.69      A16S
ATOM   7249  C8   G   A 347     142.144  31.159  -3.263  1.00 82.69      A16S
ATOM   7250  C2*  G   A 347     138.926  31.039  -2.474  1.00115.50      A16S
ATOM   7251  O2*  G   A 347     137.756  30.546  -1.855  1.00115.50      A16S
ATOM   7252  C3*  G   A 347     138.834  31.023  -3.993  1.00115.50      A16S
ATOM   7253  O3*  G   A 347     137.579  31.511  -4.461  1.00115.50      A16S
ATOM   7254  P    G   A 348     137.195  33.058  -4.210  1.00 71.94      A16S
ATOM   7255  O1P  G   A 348     138.429  33.874  -4.430  1.00 60.82      A16S
ATOM   7256  O2P  G   A 348     135.937  33.420  -4.928  1.00 60.82      A16S
ATOM   7257  O5*  G   A 348     136.864  33.070  -2.659  1.00 71.94      A16S
ATOM   7258  C5*  G   A 348     136.771  34.286  -1.954  1.00 71.94      A16S
ATOM   7259  C4*  G   A 348     137.096  34.058  -0.516  1.00 71.94      A16S
ATOM   7260  O4*  G   A 348     138.434  33.536  -0.395  1.00 71.94      A16S
ATOM   7261  C1*  G   A 348     139.066  34.104   0.739  1.00 71.94      A16S
ATOM   7262  N9   G   A 348     140.220  34.866   0.284  1.00 60.82      A16S
ATOM   7263  C4   G   A 348     140.967  35.701   1.057  1.00 60.82      A16S
ATOM   7264  N3   G   A 348     140.753  35.957   2.358  1.00 60.82      A16S
ATOM   7265  C2   G   A 348     141.646  36.791   2.846  1.00 60.82      A16S
ATOM   7266  N2   G   A 348     141.583  37.143   4.147  1.00 60.82      A16S
ATOM   7267  N1   G   A 348     142.667  37.341   2.100  1.00 60.82      A16S
ATOM   7268  C6   G   A 348     142.899  37.091   0.751  1.00 60.82      A16S
ATOM   7269  O6   G   A 348     143.840  37.637   0.172  1.00 60.82      A16S
ATOM   7270  C5   G   A 348     141.953  36.190   0.226  1.00 60.82      A16S
ATOM   7271  N7   G   A 348     141.823  35.671  -1.054  1.00 60.82      A16S
ATOM   7272  C8   G   A 348     140.778  34.893  -0.975  1.00 60.82      A16S
ATOM   7273  C2*  G   A 348     138.052  35.007   1.431  1.00 71.94      A16S
ATOM   7274  O2*  G   A 348     137.410  34.301   2.469  1.00 71.94      A16S
ATOM   7275  C3*  G   A 348     137.136  35.337   0.273  1.00 71.94      A16S
ATOM   7276  O3*  G   A 348     135.841  35.709   0.625  1.00 71.94      A16S
ATOM   7277  P    A   A 349     135.368  37.193   0.299  1.00 89.40      A16S
ATOM   7278  O1P  A   A 349     133.918  37.244   0.627  1.00 61.14      A16S
ATOM   7279  O2P  A   A 349     135.826  37.533  -1.080  1.00 61.14      A16S
ATOM   7280  O5*  A   A 349     136.214  38.041   1.348  1.00 89.40      A16S
ATOM   7281  C5*  A   A 349     136.222  37.652   2.729  1.00 89.40      A16S
ATOM   7282  C4*  A   A 349     137.088  38.574   3.541  1.00 89.40      A16S
ATOM   7283  O4*  A   A 349     138.488  38.269   3.360  1.00 89.40      A16S
ATOM   7284  C1*  A   A 349     139.249  39.454   3.501  1.00 89.40      A16S
ATOM   7285  N9   A   A 349     140.008  39.665   2.270  1.00 61.14      A16S
ATOM   7286  C4   A   A 349     141.098  40.488   2.136  1.00 61.14      A16S
ATOM   7287  N3   A   A 349     141.661  41.251   3.085  1.00 61.14      A16S
ATOM   7288  C2   A   A 349     142.698  41.918   2.594  1.00 61.14      A16S
ATOM   7289  N1   A   A 349     143.201  41.904   1.359  1.00 61.14      A16S
ATOM   7290  C6   A   A 349     142.621  41.115   0.434  1.00 61.14      A16S
ATOM   7291  N6   A   A 349     143.143  41.083  -0.789  1.00 61.14      A16S
ATOM   7292  C5   A   A 349     141.502  40.368   0.823  1.00 61.14      A16S
ATOM   7293  N7   A   A 349     140.678  39.493   0.134  1.00 61.14      A16S
ATOM   7294  C8   A   A 349     139.808  39.106   1.034  1.00 61.14      A16S
ATOM   7295  C2*  A   A 349     138.279  40.595   3.800  1.00 89.40      A16S
ATOM   7296  O2*  A   A 349     138.203  40.785   5.199  1.00 89.40      A16S
ATOM   7297  C3*  A   A 349     136.983  40.046   3.223  1.00 89.40      A16S
ATOM   7298  O3*  A   A 349     135.838  40.614   3.813  1.00 89.40      A16S
ATOM   7299  P    G   A 350     135.181  41.920   3.158  1.00 56.35      A16S
ATOM   7300  O1P  G   A 350     135.803  42.174   1.828  1.00 46.79      A16S
ATOM   7301  O2P  G   A 350     133.705  41.761   3.250  1.00 46.79      A16S
ATOM   7302  O5*  G   A 350     135.654  43.059   4.159  1.00 56.35      A16S
ATOM   7303  C5*  G   A 350     136.027  44.344   3.677  1.00 56.35      A16S
ATOM   7304  C4*  G   A 350     137.375  44.715   4.213  1.00 56.35      A16S
ATOM   7305  O4*  G   A 350     138.347  43.741   3.777  1.00 56.35      A16S
ATOM   7306  C1*  G   A 350     139.582  44.385   3.506  1.00 56.35      A16S
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ATOM   7307  N9  G   A 350     139.947  44.101   2.121  1.00 46.79      A16S
ATOM   7308  C4  G   A 350     141.114  44.447   1.467  1.00 46.79      A16S
ATOM   7309  N3  G   A 350     142.148  45.140   1.986  1.00 46.79      A16S
ATOM   7310  C2  G   A 350     143.120  45.320   1.096  1.00 46.79      A16S
ATOM   7311  N2  G   A 350     144.220  45.999   1.429  1.00 46.79      A16S
ATOM   7312  N1  G   A 350     143.088  44.852  -0.189  1.00 46.79      A16S
ATOM   7313  C6  G   A 350     142.040  44.140  -0.748  1.00 46.79      A16S
ATOM   7314  O6  G   A 350     142.106  43.773  -1.929  1.00 46.79      A16S
ATOM   7315  C5  G   A 350     140.982  43.938   0.194  1.00 46.79      A16S
ATOM   7316  N7  G   A 350     139.763  43.289   0.049  1.00 46.79      A16S
ATOM   7317  C8  G   A 350     139.186  43.414   1.210  1.00 46.79      A16S
ATOM   7318  C2* G   A 350     139.412  45.870   3.831  1.00 56.35      A16S
ATOM   7319  O2* G   A 350     139.904  46.103   5.140  1.00 56.35      A16S
ATOM   7320  C3* G   A 350     137.898  46.042   3.709  1.00 56.35      A16S
ATOM   7321  O3* G   A 350     137.369  47.095   4.506  1.00 56.35      A16S
ATOM   7322  P   G   A 351     136.088  47.923   3.990  1.00 59.34      A16S
ATOM   7323  O1P G   A 351     135.181  48.026   5.163  1.00 56.33      A16S
ATOM   7324  O2P G   A 351     135.573  47.358   2.717  1.00 56.33      A16S
ATOM   7325  O5* G   A 351     136.675  49.369   3.677  1.00 59.34      A16S
ATOM   7326  C5* G   A 351     137.263  50.156   4.723  1.00 59.34      A16S
ATOM   7327  C4* G   A 351     138.415  50.941   4.182  1.00 59.34      A16S
ATOM   7328  O4* G   A 351     139.376  50.007   3.665  1.00 59.34      A16S
ATOM   7329  C1* G   A 351     139.952  50.530   2.495  1.00 59.34      A16S
ATOM   7330  N9  G   A 351     139.834  49.521   1.451  1.00 56.33      A16S
ATOM   7331  C4  G   A 351     140.779  49.225   0.508  1.00 56.33      A16S
ATOM   7332  N3  G   A 351     141.967  49.836   0.367  1.00 56.33      A16S
ATOM   7333  C2  G   A 351     142.669  49.318  -0.612  1.00 56.33      A16S
ATOM   7334  N2  G   A 351     143.882  49.805  -0.879  1.00 56.33      A16S
ATOM   7335  N1  G   A 351     142.238  48.285  -1.402  1.00 56.33      A16S
ATOM   7336  C6  G   A 351     141.012  47.646  -1.282  1.00 56.33      A16S
ATOM   7337  O6  G   A 351     140.710  46.729  -2.062  1.00 56.33      A16S
ATOM   7338  C5  G   A 351     140.253  48.186  -0.224  1.00 56.33      A16S
ATOM   7339  N7  G   A 351     138.996  47.842   0.244  1.00 56.33      A16S
ATOM   7340  C8  G   A 351     138.785  48.666   1.232  1.00 56.33      A16S
ATOM   7341  C2* G   A 351     139.323  51.897   2.194  1.00 59.34      A16S
ATOM   7342  O2* G   A 351     140.181  52.962   2.584  1.00 59.34      A16S
ATOM   7343  C3* G   A 351     138.049  51.861   3.027  1.00 59.34      A16S
ATOM   7344  O3* G   A 351     137.768  53.219   3.431  1.00 59.34      A16S
ATOM   7345  P   C   A 352     138.028  53.705   4.952  1.00 38.61      A16S
ATOM   7346  O1P C   A 352     136.738  53.700   5.695  1.00 49.39      A16S
ATOM   7347  O2P C   A 352     139.229  53.053   5.543  1.00 49.39      A16S
ATOM   7348  O5* C   A 352     138.439  55.215   4.777  1.00 38.61      A16S
ATOM   7349  C5* C   A 352     139.628  55.701   5.384  1.00 38.61      A16S
ATOM   7350  C4* C   A 352     139.287  56.715   6.442  1.00 38.61      A16S
ATOM   7351  O4* C   A 352     138.742  56.068   7.620  1.00 38.61      A16S
ATOM   7352  C1* C   A 352     139.249  56.703   8.780  1.00 38.61      A16S
ATOM   7353  N1  C   A 352     140.111  55.744   9.482  1.00 49.39      A16S
ATOM   7354  C6  C   A 352     140.638  54.677   8.817  1.00 49.39      A16S
ATOM   7355  C2  C   A 352     140.410  55.953  10.835  1.00 49.39      A16S
ATOM   7356  O2  C   A 352     139.913  56.925  11.428  1.00 49.39      A16S
ATOM   7357  N3  C   A 352     141.242  55.097  11.459  1.00 49.39      A16S
ATOM   7358  C4  C   A 352     141.778  54.077  10.786  1.00 49.39      A16S
ATOM   7359  N4  C   A 352     142.639  53.282  11.429  1.00 49.39      A16S
ATOM   7360  C5  C   A 352     141.470  53.832   9.421  1.00 49.39      A16S
ATOM   7361  C2* C   A 352     140.070  57.910   8.324  1.00 38.61      A16S
ATOM   7362  O2* C   A 352     139.252  59.054   8.262  1.00 38.61      A16S
ATOM   7363  C3* C   A 352     140.496  57.477   6.936  1.00 38.61      A16S
ATOM   7364  O3* C   A 352     140.698  58.575   6.078  1.00 38.61      A16S
ATOM   7365  P   A   A 353     142.141  59.264   5.981  1.00 26.71      A16S
ATOM   7366  O1P A   A 353     142.869  59.212   7.290  1.00 35.48      A16S
ATOM   7367  O2P A   A 353     142.799  58.712   4.749  1.00 35.48      A16S
ATOM   7368  O5* A   A 353     141.726  60.789   5.787  1.00 26.71      A16S
ATOM   7369  C5* A   A 353     141.289  61.268   4.536  1.00 26.71      A16S
ATOM   7370  C4* A   A 353     139.945  61.932   4.648  1.00 26.71      A16S
ATOM   7371  O4* A   A 353     139.966  62.862   3.547  1.00 26.71      A16S
ATOM   7372  C1* A   A 353     139.089  62.434   2.542  1.00 26.71      A16S
ATOM   7373  N9  A   A 353     139.858  61.653   1.569  1.00 35.48      A16S
ATOM   7374  C4  A   A 353     139.414  61.213   0.353  1.00 35.48      A16S
ATOM   7375  N3  A   A 353     138.213  61.430  -0.195  1.00 35.48      A16S
ATOM   7376  C2  A   A 353     138.132  60.842  -1.376  1.00 35.48      A16S
ATOM   7377  N1  A   A 353     139.044  60.109  -2.024  1.00 35.48      A16S
ATOM   7378  C6  A   A 353     140.245  59.911  -1.443  1.00 35.48      A16S
ATOM   7379  N6  A   A 353     141.161  59.177  -2.087  1.00 35.48      A16S
ATOM   7380  C5  A   A 353     140.458  60.492  -0.191  1.00 35.48      A16S
ATOM   7381  N7  A   A 353     141.553  60.497   0.653  1.00 35.48      A16S
ATOM   7382  C8  A   A 353     141.150  61.200   1.676  1.00 35.48      A16S
ATOM   7383  C2* A   A 353     137.987  61.678   3.270  1.00 26.71      A16S
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ATOM   7384  O2* A   A 353     137.080  62.644   3.738  1.00 26.71      A16S
ATOM   7385  C3* A   A 353     138.740  61.017   4.424  1.00 26.71      A16S
ATOM   7386  O3* A   A 353     137.862  60.987   5.563  1.00 26.71      A16S
ATOM   7387  P   G   A 354     136.591  59.969   5.595  1.00 41.50      A16S
ATOM   7388  O1P G   A 354     137.101  58.610   5.869  1.00 51.79      A16S
ATOM   7389  O2P G   A 354     135.714  60.178   4.413  1.00 51.79      A16S
ATOM   7390  O5* G   A 354     135.814  60.387   6.926  1.00 41.50      A16S
ATOM   7391  C5* G   A 354     135.103  61.632   7.014  1.00 41.50      A16S
ATOM   7392  C4* G   A 354     134.209  61.666   8.242  1.00 41.50      A16S
ATOM   7393  O4* G   A 354     133.444  60.434   8.337  1.00 41.50      A16S
ATOM   7394  C1* G   A 354     133.241  60.102   9.701  1.00 41.50      A16S
ATOM   7395  N9  G   A 354     133.835  58.788   9.958  1.00 51.79      A16S
ATOM   7396  C4  G   A 354     133.866  58.121  11.166  1.00 51.79      A16S
ATOM   7397  N3  G   A 354     133.315  58.542  12.321  1.00 51.79      A16S
ATOM   7398  C2  G   A 354     133.556  57.710  13.313  1.00 51.79      A16S
ATOM   7399  N2  G   A 354     133.089  57.973  14.527  1.00 51.79      A16S
ATOM   7400  N1  G   A 354     134.277  56.561  13.190  1.00 51.79      A16S
ATOM   7401  C6  G   A 354     134.855  56.105  12.017  1.00 51.79      A16S
ATOM   7402  O6  G   A 354     135.505  55.062  12.025  1.00 51.79      A16S
ATOM   7403  C5  G   A 354     134.599  56.980  10.935  1.00 51.79      A16S
ATOM   7404  N7  G   A 354     134.984  56.902   9.603  1.00 51.79      A16S
ATOM   7405  C8  G   A 354     134.503  57.988   9.062  1.00 51.79      A16S
ATOM   7406  C2* G   A 354     133.869  61.214  10.549  1.00 41.50      A16S
ATOM   7407  O2* G   A 354     132.879  62.148  10.918  1.00 41.50      A16S
ATOM   7408  C3* G   A 354     134.896  61.807   9.592  1.00 41.50      A16S
ATOM   7409  O3* G   A 354     135.144  63.182   9.884  1.00 41.50      A16S
ATOM   7410  P   C   A 355     136.181  63.584  11.051  1.00 38.46      A16S
ATOM   7411  O1P C   A 355     136.087  65.051  11.190  1.00 47.87      A16S
ATOM   7412  O2P C   A 355     137.509  62.955  10.830  1.00 47.87      A16S
ATOM   7413  O5* C   A 355     135.570  62.916  12.360  1.00 38.46      A16S
ATOM   7414  C5* C   A 355     134.509  63.543  13.099  1.00 38.46      A16S
ATOM   7415  C4* C   A 355     134.515  63.045  14.520  1.00 38.46      A16S
ATOM   7416  O4* C   A 355     134.096  61.662  14.557  1.00 38.46      A16S
ATOM   7417  C1* C   A 355     134.852  60.957  15.523  1.00 38.46      A16S
ATOM   7418  N1  C   A 355     135.608  59.898  14.834  1.00 47.87      A16S
ATOM   7419  C6  C   A 355     135.781  59.927  13.484  1.00 47.87      A16S
ATOM   7420  C2  C   A 355     136.148  58.865  15.581  1.00 47.87      A16S
ATOM   7421  O2  C   A 355     136.008  58.880  16.810  1.00 47.87      A16S
ATOM   7422  N3  C   A 355     136.819  57.879  14.958  1.00 47.87      A16S
ATOM   7423  C4  C   A 355     136.975  57.914  13.641  1.00 47.87      A16S
ATOM   7424  N4  C   A 355     137.635  56.918  13.063  1.00 47.87      A16S
ATOM   7425  C5  C   A 355     136.457  58.967  12.856  1.00 47.87      A16S
ATOM   7426  C2* C   A 355     135.774  61.960  16.209  1.00 38.46      A16S
ATOM   7427  O2* C   A 355     135.183  62.482  17.381  1.00 38.46      A16S
ATOM   7428  C3* C   A 355     135.887  63.035  15.154  1.00 38.46      A16S
ATOM   7429  O3* C   A 355     136.207  64.254  15.755  1.00 38.46      A16S
ATOM   7430  P   A   A 356     137.738  64.632  15.931  1.00 39.93      A16S
ATOM   7431  O1P A   A 356     137.832  65.893  16.714  1.00 47.09      A16S
ATOM   7432  O2P A   A 356     138.312  64.555  14.562  1.00 47.09      A16S
ATOM   7433  O5* A   A 356     138.346  63.430  16.778  1.00 39.93      A16S
ATOM   7434  C5* A   A 356     138.166  63.375  18.194  1.00 39.93      A16S
ATOM   7435  C4* A   A 356     138.876  62.174  18.784  1.00 39.93      A16S
ATOM   7436  O4* A   A 356     138.251  60.950  18.329  1.00 39.93      A16S
ATOM   7437  C1* A   A 356     139.178  59.891  18.445  1.00 39.93      A16S
ATOM   7438  N9  A   A 356     139.373  59.254  17.149  1.00 47.09      A16S
ATOM   7439  C4  A   A 356     139.863  57.988  17.005  1.00 47.09      A16S
ATOM   7440  N3  A   A 356     140.166  57.133  17.984  1.00 47.09      A16S
ATOM   7441  C2  A   A 356     140.646  56.016  17.487  1.00 47.09      A16S
ATOM   7442  N1  A   A 356     140.855  55.679  16.219  1.00 47.09      A16S
ATOM   7443  C6  A   A 356     140.551  56.567  15.258  1.00 47.09      A16S
ATOM   7444  N6  A   A 356     140.797  56.238  13.989  1.00 47.09      A16S
ATOM   7445  C5  A   A 356     140.009  57.789  15.656  1.00 47.09      A16S
ATOM   7446  N7  A   A 356     139.573  58.900  14.945  1.00 47.09      A16S
ATOM   7447  C8  A   A 356     139.196  59.737  15.879  1.00 47.09      A16S
ATOM   7448  C2* A   A 356     140.505  60.485  18.905  1.00 39.93      A16S
ATOM   7449  O2* A   A 356     140.580  60.359  20.305  1.00 39.93      A16S
ATOM   7450  C3* A   A 356     140.354  61.938  18.503  1.00 39.93      A16S
ATOM   7451  O3* A   A 356     141.205  62.704  19.325  1.00 39.93      A16S
ATOM   7452  P   G   A 357     142.748  62.876  18.922  1.00 44.95      A16S
ATOM   7453  O1P G   A 357     143.445  63.546  20.050  1.00 51.93      A16S
ATOM   7454  O2P G   A 357     142.804  63.476  17.573  1.00 51.93      A16S
ATOM   7455  O5* G   A 357     143.280  61.382  18.794  1.00 44.95      A16S
ATOM   7456  C5* G   A 357     143.592  60.607  19.963  1.00 44.95      A16S
ATOM   7457  C4* G   A 357     144.067  59.226  19.575  1.00 44.95      A16S
ATOM   7458  O4* G   A 357     143.058  58.585  18.755  1.00 44.95      A16S
ATOM   7459  C1* G   A 357     143.681  57.762  17.788  1.00 44.95      A16S
ATOM   7460  N9  G   A 357     143.345  58.275  16.465  1.00 51.93      A16S
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ATOM	7461	C4	G	A	357	143.594	57.663	15.261	1.00	51.93	A16S
ATOM	7462	N3	G	A	357	144.185	56.466	15.087	1.00	51.93	A16S
ATOM	7463	C2	G	A	357	144.253	56.133	13.817	1.00	51.93	A16S
ATOM	7464	N2	G	A	357	144.782	54.966	13.471	1.00	51.93	A16S
ATOM	7465	N1	G	A	357	143.797	56.920	12.793	1.00	51.93	A16S
ATOM	7466	C6	G	A	357	143.188	58.159	12.950	1.00	51.93	A16S
ATOM	7467	O6	G	A	357	142.796	58.790	11.962	1.00	51.93	A16S
ATOM	7468	C5	G	A	357	143.099	58.522	14.307	1.00	51.93	A16S
ATOM	7469	N7	G	A	357	142.557	59.653	14.896	1.00	51.93	A16S
ATOM	7470	C8	G	A	357	142.725	59.464	16.175	1.00	51.93	A16S
ATOM	7471	C2*	G	A	357	145.182	57.815	18.044	1.00	44.95	A16S
ATOM	7472	O2*	G	A	357	145.535	56.770	18.922	1.00	44.95	A16S
ATOM	7473	C3*	G	A	357	145.326	59.156	18.732	1.00	44.95	A16S
ATOM	7474	O3*	G	A	357	146.497	59.178	19.517	1.00	44.95	A16S
ATOM	7475	P	U	A	358	147.907	59.510	18.815	1.00	42.26	A16S
ATOM	7476	O1P	U	A	358	148.913	59.605	19.906	1.00	59.61	A16S
ATOM	7477	O2P	U	A	358	147.726	60.654	17.879	1.00	59.61	A16S
ATOM	7478	O5*	U	A	358	148.218	58.222	17.931	1.00	42.26	A16S
ATOM	7479	C5*	U	A	358	148.358	56.922	18.534	1.00	42.26	A16S
ATOM	7480	C4*	U	A	358	148.929	55.953	17.537	1.00	42.26	A16S
ATOM	7481	O4*	U	A	358	147.945	55.629	16.533	1.00	42.26	A16S
ATOM	7482	C1*	U	A	358	148.582	55.481	15.282	1.00	42.26	A16S
ATOM	7483	N1	U	A	358	147.927	56.376	14.318	1.00	59.61	A16S
ATOM	7484	C6	U	A	358	147.295	57.526	14.723	1.00	59.61	A16S
ATOM	7485	C2	U	A	358	147.947	56.010	12.988	1.00	59.61	A16S
ATOM	7486	O2	U	A	358	148.506	55.006	12.589	1.00	59.61	A16S
ATOM	7487	N3	U	A	358	147.281	56.859	12.142	1.00	59.61	A16S
ATOM	7488	C4	U	A	358	146.608	58.009	12.487	1.00	59.61	A16S
ATOM	7489	O4	U	A	358	145.966	58.614	11.630	1.00	59.61	A16S
ATOM	7490	C5	U	A	358	146.652	58.330	13.879	1.00	59.61	A16S
ATOM	7491	C2*	U	A	358	150.080	55.712	15.477	1.00	42.26	A16S
ATOM	7492	O2*	U	A	358	150.717	54.469	15.639	1.00	42.26	A16S
ATOM	7493	C3*	U	A	358	150.113	56.500	16.773	1.00	42.26	A16S
ATOM	7494	O3*	U	A	358	151.285	56.233	17.507	1.00	42.26	A16S
ATOM	7495	P	U	A	359	152.589	57.122	17.267	1.00	41.92	A16S
ATOM	7496	O1P	U	A	359	153.615	56.630	18.231	1.00	68.94	A16S
ATOM	7497	O2P	U	A	359	152.185	58.552	17.294	1.00	68.94	A16S
ATOM	7498	O5*	U	A	359	153.025	56.749	15.779	1.00	41.92	A16S
ATOM	7499	C5*	U	A	359	153.430	55.410	15.442	1.00	41.92	A16S
ATOM	7500	C4*	U	A	359	153.480	55.232	13.943	1.00	41.92	A16S
ATOM	7501	O4*	U	A	359	152.153	55.371	13.384	1.00	41.92	A16S
ATOM	7502	C1*	U	A	359	152.240	55.916	12.082	1.00	41.92	A16S
ATOM	7503	N1	U	A	359	151.391	57.110	11.985	1.00	68.94	A16S
ATOM	7504	C6	U	A	359	151.036	57.849	13.090	1.00	68.94	A16S
ATOM	7505	C2	U	A	359	150.967	57.470	10.725	1.00	68.94	A16S
ATOM	7506	O2	U	A	359	151.263	56.844	9.724	1.00	68.94	A16S
ATOM	7507	N3	U	A	359	150.189	58.594	10.675	1.00	68.94	A16S
ATOM	7508	C4	U	A	359	149.805	59.386	11.733	1.00	68.94	A16S
ATOM	7509	O4	U	A	359	149.139	60.406	11.513	1.00	68.94	A16S
ATOM	7510	C5	U	A	359	150.279	58.946	13.010	1.00	68.94	A16S
ATOM	7511	C2*	U	A	359	153.706	56.209	11.783	1.00	41.92	A16S
ATOM	7512	O2*	U	A	359	154.179	55.186	10.939	1.00	41.92	A16S
ATOM	7513	C3*	U	A	359	154.319	56.236	13.181	1.00	41.92	A16S
ATOM	7514	O3*	U	A	359	155.675	55.845	13.177	1.00	41.92	A16S
ATOM	7515	P	A	A	360	156.815	56.951	12.972	1.00	36.24	A16S
ATOM	7516	O1P	A	A	360	158.135	56.283	13.089	1.00	70.47	A16S
ATOM	7517	O2P	A	A	360	156.505	58.119	13.832	1.00	70.47	A16S
ATOM	7518	O5*	A	A	360	156.669	57.361	11.449	1.00	36.24	A16S
ATOM	7519	C5*	A	A	360	157.090	56.457	10.438	1.00	36.24	A16S
ATOM	7520	C4*	A	A	360	156.820	57.035	9.086	1.00	36.24	A16S
ATOM	7521	O4*	A	A	360	155.394	57.153	8.888	1.00	36.24	A16S
ATOM	7522	C1*	A	A	360	155.127	58.283	8.087	1.00	36.24	A16S
ATOM	7523	N9	A	A	360	154.235	59.166	8.833	1.00	70.47	A16S
ATOM	7524	C4	A	A	360	153.468	60.171	8.300	1.00	70.47	A16S
ATOM	7525	N3	A	A	360	153.404	60.552	7.015	1.00	70.47	A16S
ATOM	7526	C2	A	A	360	152.538	61.544	6.867	1.00	70.47	A16S
ATOM	7527	N1	A	A	360	151.780	62.148	7.785	1.00	70.47	A16S
ATOM	7528	C6	A	A	360	151.866	61.736	9.065	1.00	70.47	A16S
ATOM	7529	N6	A	A	360	151.096	62.321	9.974	1.00	70.47	A16S
ATOM	7530	C5	A	A	360	152.758	60.703	9.357	1.00	70.47	A16S
ATOM	7531	N7	A	A	360	153.088	60.065	10.542	1.00	70.47	A16S
ATOM	7532	C8	A	A	360	153.969	59.166	10.179	1.00	70.47	A16S
ATOM	7533	C2*	A	A	360	156.467	58.927	7.721	1.00	36.24	A16S
ATOM	7534	O2*	A	A	360	156.881	58.432	6.462	1.00	36.24	A16S
ATOM	7535	C3*	A	A	360	157.367	58.426	8.840	1.00	36.24	A16S
ATOM	7536	O3*	A	A	360	158.723	58.355	8.438	1.00	36.24	A16S
ATOM	7537	P	G	A	361	159.705	59.599	8.707	1.00	40.93	A16S

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ATOM   7538  O1P G   A 361     159.624  60.008  10.141  1.00 54.98      A16S
ATOM   7539  O2P G   A 361     161.021  59.200   8.136  1.00 54.98      A16S
ATOM   7540  O5* G   A 361     159.097  60.750   7.786  1.00 40.93      A16S
ATOM   7541  C5* G   A 361     159.130  60.609   6.357  1.00 40.93      A16S
ATOM   7542  C4* G   A 361     158.384  61.730   5.680  1.00 40.93      A16S
ATOM   7543  O4* G   A 361     156.961  61.602   5.901  1.00 40.93      A16S
ATOM   7544  C1* G   A 361     156.372  62.887   5.951  1.00 40.93      A16S
ATOM   7545  N9  G   A 361     155.847  63.088   7.297  1.00 54.98      A16S
ATOM   7546  C4  G   A 361     154.790  63.891   7.660  1.00 54.98      A16S
ATOM   7547  N3  G   A 361     154.028  64.629   6.826  1.00 54.98      A16S
ATOM   7548  C2  G   A 361     153.096  65.303   7.481  1.00 54.98      A16S
ATOM   7549  N2  G   A 361     152.256  66.095   6.813  1.00 54.98      A16S
ATOM   7550  N1  G   A 361     152.920  65.250   8.841  1.00 54.98      A16S
ATOM   7551  C6  G   A 361     153.684  64.489   9.716  1.00 54.98      A16S
ATOM   7552  O6  G   A 361     153.428  64.497  10.923  1.00 54.98      A16S
ATOM   7553  C5  G   A 361     154.696  63.772   9.033  1.00 54.98      A16S
ATOM   7554  N7  G   A 361     155.670  62.913   9.521  1.00 54.98      A16S
ATOM   7555  C8  G   A 361     156.324  62.529   8.459  1.00 54.98      A16S
ATOM   7556  C2* G   A 361     157.475  63.897   5.644  1.00 40.93      A16S
ATOM   7557  O2* G   A 361     157.508  64.104   4.250  1.00 40.93      A16S
ATOM   7558  C3* G   A 361     158.710  63.145   6.110  1.00 40.93      A16S
ATOM   7559  O3* G   A 361     159.895  63.625   5.500  1.00 40.93      A16S
ATOM   7560  P   G   A 362     160.978  64.401   6.396  1.00 44.47      A16S
ATOM   7561  O1P G   A 362     162.123  64.749   5.522  1.00 76.65      A16S
ATOM   7562  O2P G   A 362     161.218  63.633   7.642  1.00 76.65      A16S
ATOM   7563  O5* G   A 362     160.222  65.740   6.786  1.00 44.47      A16S
ATOM   7564  C5* G   A 362     159.625  66.559   5.772  1.00 44.47      A16S
ATOM   7565  C4* G   A 362     158.811  67.667   6.397  1.00 44.47      A16S
ATOM   7566  O4* G   A 362     157.583  67.140   6.958  1.00 44.47      A16S
ATOM   7567  C1* G   A 362     157.212  67.909   8.085  1.00 44.47      A16S
ATOM   7568  N9  G   A 362     157.147  67.029   9.247  1.00 76.65      A16S
ATOM   7569  C4  G   A 362     156.235  67.101  10.259  1.00 76.65      A16S
ATOM   7570  N3  G   A 362     155.234  67.993  10.350  1.00 76.65      A16S
ATOM   7571  C2  G   A 362     154.525  67.823  11.442  1.00 76.65      A16S
ATOM   7572  N2  G   A 362     153.484  68.625  11.682  1.00 76.65      A16S
ATOM   7573  N1  G   A 362     154.781  66.852  12.377  1.00 76.65      A16S
ATOM   7574  C6  G   A 362     155.807  65.916  12.302  1.00 76.65      A16S
ATOM   7575  O6  G   A 362     155.945  65.069  13.199  1.00 76.65      A16S
ATOM   7576  C5  G   A 362     156.574  66.091  11.133  1.00 76.65      A16S
ATOM   7577  N7  G   A 362     157.678  65.392  10.674  1.00 76.65      A16S
ATOM   7578  C8  G   A 362     157.982  65.982   9.551  1.00 76.65      A16S
ATOM   7579  C2* G   A 362     158.237  69.036   8.234  1.00 44.47      A16S
ATOM   7580  O2* G   A 362     157.760  70.166   7.523  1.00 44.47      A16S
ATOM   7581  C3* G   A 362     159.452  68.442   7.539  1.00 44.47      A16S
ATOM   7582  O3* G   A 362     160.333  69.451   7.060  1.00 44.47      A16S
ATOM   7583  P   A   A 363     161.612  69.866   7.934  1.00 39.27      A16S
ATOM   7584  O1P A   A 363     161.904  68.699   8.792  1.00 49.31      A16S
ATOM   7585  O2P A   A 363     162.664  70.415   7.056  1.00 49.31      A16S
ATOM   7586  O5* A   A 363     161.086  71.049   8.855  1.00 39.27      A16S
ATOM   7587  C5* A   A 363     161.871  71.530   9.956  1.00 39.27      A16S
ATOM   7588  C4* A   A 363     161.041  72.442  10.829  1.00 39.27      A16S
ATOM   7589  O4* A   A 363     160.730  73.654  10.099  1.00 39.27      A16S
ATOM   7590  C1* A   A 363     159.433  74.093  10.444  1.00 39.27      A16S
ATOM   7591  N9  A   A 363     158.629  74.101   9.227  1.00 49.31      A16S
ATOM   7592  C4  A   A 363     157.364  74.611   9.081  1.00 49.31      A16S
ATOM   7593  N3  A   A 363     156.612  75.201  10.019  1.00 49.31      A16S
ATOM   7594  C2  A   A 363     155.450  75.574   9.511  1.00 49.31      A16S
ATOM   7595  N1  A   A 363     154.989  75.439   8.267  1.00 49.31      A16S
ATOM   7596  C6  A   A 363     155.778  74.847   7.350  1.00 49.31      A16S
ATOM   7597  N6  A   A 363     155.331  74.721   6.101  1.00 49.31      A16S
ATOM   7598  C5  A   A 363     157.026  74.401   7.762  1.00 49.31      A16S
ATOM   7599  N7  A   A 363     158.052  73.762   7.085  1.00 49.31      A16S
ATOM   7600  C8  A   A 363     158.977  73.607   7.996  1.00 49.31      A16S
ATOM   7601  C2* A   A 363     158.882  73.153  11.519  1.00 39.27      A16S
ATOM   7602  O2* A   A 363     159.106  73.712  12.798  1.00 39.27      A16S
ATOM   7603  C3* A   A 363     159.698  71.891  11.285  1.00 39.27      A16S
ATOM   7604  O3* A   A 363     159.833  71.150  12.492  1.00 39.27      A16S
ATOM   7605  P   A   A 364     158.725  70.049  12.889  1.00 52.73      A16S
ATOM   7606  O1P A   A 364     159.038  69.552  14.261  1.00 51.17      A16S
ATOM   7607  O2P A   A 364     158.630  69.086  11.768  1.00 51.17      A16S
ATOM   7608  O5* A   A 364     157.358  70.863  12.943  1.00 52.73      A16S
ATOM   7609  C5* A   A 364     157.024  71.688  14.076  1.00 52.73      A16S
ATOM   7610  C4* A   A 364     155.574  72.105  13.997  1.00 52.73      A16S
ATOM   7611  O4* A   A 364     155.394  72.936  12.834  1.00 52.73      A16S
ATOM   7612  C1* A   A 364     154.181  72.608  12.192  1.00 52.73      A16S
ATOM   7613  N9  A   A 364     154.501  72.217  10.821  1.00 51.17      A16S
ATOM   7614  C4  A   A 364     153.828  72.618   9.696  1.00 51.17      A16S
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ATOM   7615  N3  A   A 364     152.743  73.406   9.636  1.00 51.17      A16S
ATOM   7616  C2  A   A 364     152.370  73.588   8.381  1.00 51.17      A16S
ATOM   7617  N1  A   A 364     152.909  73.108   7.259  1.00 51.17      A16S
ATOM   7618  C6  A   A 364     153.995  72.321   7.351  1.00 51.17      A16S
ATOM   7619  N6  A   A 364     154.530  71.846   6.224  1.00 51.17      A16S
ATOM   7620  C5  A   A 364     154.499  72.054   8.634  1.00 51.17      A16S
ATOM   7621  N7  A   A 364     155.576  71.304   9.080  1.00 51.17      A16S
ATOM   7622  C8  A   A 364     155.527  71.425  10.380  1.00 51.17      A16S
ATOM   7623  C2* A   A 364     153.448  71.564  13.039  1.00 52.73      A16S
ATOM   7624  O2* A   A 364     152.503  72.212  13.862  1.00 52.73      A16S
ATOM   7625  C3* A   A 364     154.591  70.953  13.840  1.00 52.73      A16S
ATOM   7626  O3* A   A 364     154.179  70.538  15.141  1.00 52.73      A16S
ATOM   7627  P   U   A 365     153.248  69.250  15.321  1.00 36.97      A16S
ATOM   7628  O1P U   A 365     153.280  68.970  16.782  1.00 45.24      A16S
ATOM   7629  O2P U   A 365     153.643  68.196  14.365  1.00 45.24      A16S
ATOM   7630  O5* U   A 365     151.801  69.774  14.922  1.00 36.97      A16S
ATOM   7631  C5* U   A 365     150.999  70.490  15.875  1.00 36.97      A16S
ATOM   7632  C4* U   A 365     149.613  70.692  15.338  1.00 36.97      A16S
ATOM   7633  O4* U   A 365     149.670  71.548  14.183  1.00 36.97      A16S
ATOM   7634  C1* U   A 365     148.545  71.286  13.378  1.00 36.97      A16S
ATOM   7635  N1  U   A 365     148.881  71.537  11.968  1.00 45.24      A16S
ATOM   7636  C6  U   A 365     148.120  72.407  11.241  1.00 45.24      A16S
ATOM   7637  C2  U   A 365     149.962  70.909  11.406  1.00 45.24      A16S
ATOM   7638  O2  U   A 365     150.664  70.142  12.016  1.00 45.24      A16S
ATOM   7639  N3  U   A 365     150.195  71.226  10.097  1.00 45.24      A16S
ATOM   7640  C4  U   A 365     149.473  72.098   9.318  1.00 45.24      A16S
ATOM   7641  O4  U   A 365     149.813  72.304   8.160  1.00 45.24      A16S
ATOM   7642  C5  U   A 365     148.374  72.704   9.973  1.00 45.24      A16S
ATOM   7643  C2* U   A 365     147.937  69.935  13.787  1.00 36.97      A16S
ATOM   7644  O2* U   A 365     146.636  70.148  14.296  1.00 36.97      A16S
ATOM   7645  C3* U   A 365     148.932  69.429  14.842  1.00 36.97      A16S
ATOM   7646  O3* U   A 365     148.277  68.844  15.958  1.00 36.97      A16S
ATOM   7647  P   C   A 366     148.207  67.248  16.110  1.00 41.71      A16S
ATOM   7648  O1P C   A 366     149.593  66.713  16.030  1.00 49.62      A16S
ATOM   7649  O2P C   A 366     147.170  66.754  15.166  1.00 49.62      A16S
ATOM   7650  O5* C   A 366     147.675  67.059  17.599  1.00 41.71      A16S
ATOM   7651  C5* C   A 366     148.436  67.565  18.720  1.00 41.71      A16S
ATOM   7652  C4* C   A 366     147.537  67.787  19.925  1.00 41.71      A16S
ATOM   7653  O4* C   A 366     146.668  68.919  19.676  1.00 41.71      A16S
ATOM   7654  C1* C   A 366     145.314  68.554  19.867  1.00 41.71      A16S
ATOM   7655  N1  C   A 366     144.519  69.146  18.768  1.00 49.62      A16S
ATOM   7656  C6  C   A 366     145.033  69.273  17.508  1.00 49.62      A16S
ATOM   7657  C2  C   A 366     143.227  69.587  19.040  1.00 49.62      A16S
ATOM   7658  O2  C   A 366     142.788  69.450  20.180  1.00 49.62      A16S
ATOM   7659  N3  C   A 366     142.489  70.155  18.056  1.00 49.62      A16S
ATOM   7660  C4  C   A 366     143.005  70.290  16.840  1.00 49.62      A16S
ATOM   7661  N4  C   A 366     142.260  70.877  15.909  1.00 49.62      A16S
ATOM   7662  C5  C   A 366     144.317  69.835  16.524  1.00 49.62      A16S
ATOM   7663  C2* C   A 366     145.236  67.033  19.870  1.00 41.71      A16S
ATOM   7664  O2* C   A 366     144.148  66.561  20.634  1.00 41.71      A16S
ATOM   7665  C3* C   A 366     146.639  66.621  20.327  1.00 41.71      A16S
ATOM   7666  O3* C   A 366     146.951  65.988  21.604  1.00 41.71      A16S
ATOM   7667  P   U   A 367     146.481  66.638  23.001  1.00 45.28      A16S
ATOM   7668  O1P U   A 367     146.160  68.066  22.743  1.00 73.47      A16S
ATOM   7669  O2P U   A 367     147.494  66.300  24.027  1.00 73.47      A16S
ATOM   7670  O5* U   A 367     145.134  65.876  23.380  1.00 45.28      A16S
ATOM   7671  C5* U   A 367     144.913  64.497  23.018  1.00 45.28      A16S
ATOM   7672  C4* U   A 367     143.789  63.931  23.850  1.00 45.28      A16S
ATOM   7673  O4* U   A 367     142.674  64.851  23.814  1.00 45.28      A16S
ATOM   7674  C1* U   A 367     141.508  64.172  23.425  1.00 45.28      A16S
ATOM   7675  N1  U   A 367     140.686  65.103  22.636  1.00 73.47      A16S
ATOM   7676  C6  U   A 367     141.083  65.550  21.400  1.00 73.47      A16S
ATOM   7677  C2  U   A 367     139.488  65.528  23.192  1.00 73.47      A16S
ATOM   7678  O2  U   A 367     139.093  65.161  24.287  1.00 73.47      A16S
ATOM   7679  N3  U   A 367     138.769  66.404  22.424  1.00 73.47      A16S
ATOM   7680  C4  U   A 367     139.112  66.893  21.193  1.00 73.47      A16S
ATOM   7681  O4  U   A 367     138.371  67.702  20.642  1.00 73.47      A16S
ATOM   7682  C5  U   A 367     140.358  66.408  20.681  1.00 73.47      A16S
ATOM   7683  C2* U   A 367     141.968  62.908  22.703  1.00 45.28      A16S
ATOM   7684  O2* U   A 367     140.978  61.910  22.814  1.00 45.28      A16S
ATOM   7685  C3* U   A 367     143.243  62.563  23.466  1.00 45.28      A16S
ATOM   7686  O3* U   A 367     142.904  61.875  24.674  1.00 45.28      A16S
ATOM   7687  P   U   A 368     143.791  60.617  25.172  1.00 40.01      A16S
ATOM   7688  O1P U   A 368     143.393  60.347  26.584  1.00 68.18      A16S
ATOM   7689  O2P U   A 368     145.228  60.854  24.840  1.00 68.18      A16S
ATOM   7690  O5* U   A 368     143.268  59.401  24.287  1.00 40.01      A16S
ATOM   7691  C5* U   A 368     141.910  58.942  24.406  1.00 40.01      A16S
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ATOM   7692  C4* U   A 368     141.343  58.652  23.043  1.00 40.01      A16S
ATOM   7693  O4* U   A 368     142.171  57.687  22.373  1.00 40.01      A16S
ATOM   7694  C1* U   A 368     141.375  56.929  21.497  1.00 40.01      A16S
ATOM   7695  N1  U   A 368     141.756  55.520  21.634  1.00 68.18      A16S
ATOM   7696  C6  U   A 368     141.447  54.792  22.756  1.00 68.18      A16S
ATOM   7697  C2  U   A 368     142.447  54.953  20.584  1.00 68.18      A16S
ATOM   7698  O2  U   A 368     142.759  55.571  19.583  1.00 68.18      A16S
ATOM   7699  N3  U   A 368     142.767  53.635  20.750  1.00 68.18      A16S
ATOM   7700  C4  U   A 368     142.483  52.846  21.837  1.00 68.18      A16S
ATOM   7701  O4  U   A 368     142.796  51.657  21.814  1.00 68.18      A16S
ATOM   7702  C5  U   A 368     141.780  53.510  22.892  1.00 68.18      A16S
ATOM   7703  C2* U   A 368     139.902  57.274  21.730  1.00 40.01      A16S
ATOM   7704  O2* U   A 368     139.423  58.082  20.681  1.00 40.01      A16S
ATOM   7705  C3* U   A 368     139.954  58.046  23.037  1.00 40.01      A16S
ATOM   7706  O3* U   A 368     139.026  59.108  22.999  1.00 40.01      A16S
ATOM   7707  P   C   A 369     137.475  58.816  23.215  1.00 44.68      A16S
ATOM   7708  O1P C   A 369     137.272  57.360  23.435  1.00 54.00      A16S
ATOM   7709  O2P C   A 369     136.762  59.491  22.118  1.00 54.00      A16S
ATOM   7710  O5* C   A 369     137.134  59.615  24.546  1.00 44.68      A16S
ATOM   7711  C5* C   A 369     137.866  59.388  25.765  1.00 44.68      A16S
ATOM   7712  C4* C   A 369     137.500  60.440  26.783  1.00 44.68      A16S
ATOM   7713  O4* C   A 369     137.990  61.728  26.332  1.00 44.68      A16S
ATOM   7714  C1* C   A 369     137.021  62.728  26.581  1.00 44.68      A16S
ATOM   7715  N1  C   A 369     136.594  63.277  25.283  1.00 54.00      A16S
ATOM   7716  C6  C   A 369     136.819  62.587  24.126  1.00 54.00      A16S
ATOM   7717  C2  C   A 369     135.947  64.518  25.250  1.00 54.00      A16S
ATOM   7718  O2  C   A 369     135.753  65.127  26.313  1.00 54.00      A16S
ATOM   7719  N3  C   A 369     135.549  65.023  24.067  1.00 54.00      A16S
ATOM   7720  C4  C   A 369     135.778  64.345  22.946  1.00 54.00      A16S
ATOM   7721  N4  C   A 369     135.375  64.889  21.796  1.00 54.00      A16S
ATOM   7722  C5  C   A 369     136.432  63.077  22.949  1.00 54.00      A16S
ATOM   7723  C2* C   A 369     135.870  62.083  27.356  1.00 44.68      A16S
ATOM   7724  O2* C   A 369     136.048  62.318  28.733  1.00 44.68      A16S
ATOM   7725  C3* C   A 369     136.005  60.625  26.945  1.00 44.68      A16S
ATOM   7726  O3* C   A 369     135.486  59.720  27.890  1.00 44.68      A16S
ATOM   7727  P   C   A 370     133.970  59.223  27.748  1.00 47.34      A16S
ATOM   7728  O1P C   A 370     133.699  58.927  26.314  1.00 54.30      A16S
ATOM   7729  O2P C   A 370     133.713  58.183  28.781  1.00 54.30      A16S
ATOM   7730  O5* C   A 370     133.118  60.507  28.125  1.00 47.34      A16S
ATOM   7731  C5* C   A 370     133.138  61.023  29.455  1.00 47.34      A16S
ATOM   7732  C4* C   A 370     132.046  62.039  29.630  1.00 47.34      A16S
ATOM   7733  O4* C   A 370     132.409  63.286  28.982  1.00 47.34      A16S
ATOM   7734  C1* C   A 370     131.240  63.901  28.453  1.00 47.34      A16S
ATOM   7735  N1  C   A 370     131.390  64.053  26.984  1.00 54.30      A16S
ATOM   7736  C6  C   A 370     132.248  63.257  26.280  1.00 54.30      A16S
ATOM   7737  C2  C   A 370     130.633  65.024  26.321  1.00 54.30      A16S
ATOM   7738  O2  C   A 370     129.883  65.753  26.975  1.00 54.30      A16S
ATOM   7739  N3  C   A 370     130.746  65.149  24.982  1.00 54.30      A16S
ATOM   7740  C4  C   A 370     131.586  64.364  24.309  1.00 54.30      A16S
ATOM   7741  N4  C   A 370     131.677  64.528  22.987  1.00 54.30      A16S
ATOM   7742  C5  C   A 370     132.376  63.378  24.956  1.00 54.30      A16S
ATOM   7743  C2* C   A 370     130.049  63.022  28.843  1.00 47.34      A16S
ATOM   7744  O2* C   A 370     129.511  63.484  30.065  1.00 47.34      A16S
ATOM   7745  C3* C   A 370     130.713  61.666  29.011  1.00 47.34      A16S
ATOM   7746  O3* C   A 370     129.970  60.771  29.810  1.00 47.34      A16S
ATOM   7747  P   G   A 371     128.957  59.745  29.102  1.00 53.38      A16S
ATOM   7748  O1P G   A 371     128.422  58.850  30.158  1.00 74.49      A16S
ATOM   7749  O2P G   A 371     129.565  59.164  27.870  1.00 74.49      A16S
ATOM   7750  O5* G   A 371     127.770  60.681  28.653  1.00 53.38      A16S
ATOM   7751  C5* G   A 371     127.276  61.660  29.556  1.00 53.38      A16S
ATOM   7752  C4* G   A 371     126.331  62.575  28.848  1.00 53.38      A16S
ATOM   7753  O4* G   A 371     127.033  63.615  28.120  1.00 53.38      A16S
ATOM   7754  C1* G   A 371     126.322  63.917  26.935  1.00 53.38      A16S
ATOM   7755  N9  G   A 371     127.152  63.598  25.776  1.00 74.49      A16S
ATOM   7756  C4  G   A 371     126.886  63.940  24.471  1.00 74.49      A16S
ATOM   7757  N3  G   A 371     125.840  64.677  24.040  1.00 74.49      A16S
ATOM   7758  C2  G   A 371     125.843  64.820  22.730  1.00 74.49      A16S
ATOM   7759  N2  G   A 371     124.884  65.531  22.136  1.00 74.49      A16S
ATOM   7760  N1  G   A 371     126.785  64.275  21.906  1.00 74.49      A16S
ATOM   7761  C6  G   A 371     127.860  63.500  22.325  1.00 74.49      A16S
ATOM   7762  O6  G   A 371     128.636  63.021  21.490  1.00 74.49      A16S
ATOM   7763  C5  G   A 371     127.885  63.359  23.731  1.00 74.49      A16S
ATOM   7764  N7  G   A 371     128.787  62.699  24.552  1.00 74.49      A16S
ATOM   7765  C8  G   A 371     128.316  62.872  25.755  1.00 74.49      A16S
ATOM   7766  C2* G   A 371     125.060  63.059  26.946  1.00 53.38      A16S
ATOM   7767  O2* G   A 371     124.072  63.820  27.595  1.00 53.38      A16S
ATOM   7768  C3* G   A 371     125.500  61.882  27.800  1.00 53.38      A16S
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ATOM   7769  O3*  G   A 371     124.472  61.108  28.401  1.00 53.38      A16S
ATOM   7770  P    C   A 372     123.833  59.876  27.588  1.00 57.28      A16S
ATOM   7771  O1P  C   A 372     123.008  59.087  28.529  1.00 41.83      A16S
ATOM   7772  O2P  C   A 372     124.903  59.209  26.809  1.00 41.83      A16S
ATOM   7773  O5*  C   A 372     122.863  60.627  26.587  1.00 57.28      A16S
ATOM   7774  C5*  C   A 372     122.309  61.878  27.009  1.00 57.28      A16S
ATOM   7775  C4*  C   A 372     121.622  62.564  25.883  1.00 57.28      A16S
ATOM   7776  O4*  C   A 372     122.511  62.816  24.787  1.00 57.28      A16S
ATOM   7777  C1*  C   A 372     121.716  63.051  23.654  1.00 57.28      A16S
ATOM   7778  N1   C   A 372     122.533  62.830  22.451  1.00 41.83      A16S
ATOM   7779  C6   C   A 372     123.655  62.060  22.508  1.00 41.83      A16S
ATOM   7780  C2   C   A 372     122.145  63.414  21.246  1.00 41.83      A16S
ATOM   7781  O2   C   A 372     121.140  64.144  21.221  1.00 41.83      A16S
ATOM   7782  N3   C   A 372     122.876  63.176  20.138  1.00 41.83      A16S
ATOM   7783  C4   C   A 372     123.956  62.403  20.204  1.00 41.83      A16S
ATOM   7784  N4   C   A 372     124.630  62.167  19.086  1.00 41.83      A16S
ATOM   7785  C5   C   A 372     124.389  61.828  21.417  1.00 41.83      A16S
ATOM   7786  C2*  C   A 372     120.459  62.176  23.807  1.00 57.28      A16S
ATOM   7787  O2*  C   A 372     119.293  62.851  23.380  1.00 57.28      A16S
ATOM   7788  C3*  C   A 372     120.538  61.717  25.280  1.00 57.28      A16S
ATOM   7789  O3*  C   A 372     119.404  61.747  26.181  1.00 57.28      A16S
ATOM   7790  P    A   A 373     118.628  63.125  26.502  1.00 37.61      A16S
ATOM   7791  O1P  A   A 373     117.217  62.714  26.759  1.00 56.76      A16S
ATOM   7792  O2P  A   A 373     118.913  64.146  25.460  1.00 56.76      A16S
ATOM   7793  O5*  A   A 373     119.252  63.719  27.841  1.00 37.61      A16S
ATOM   7794  C5*  A   A 373     118.376  64.357  28.810  1.00 37.61      A16S
ATOM   7795  C4*  A   A 373     118.355  65.886  28.676  1.00 37.61      A16S
ATOM   7796  O4*  A   A 373     119.564  66.456  29.228  1.00 37.61      A16S
ATOM   7797  C1*  A   A 373     119.885  67.652  28.544  1.00 37.61      A16S
ATOM   7798  N9   A   A 373     121.182  67.462  27.891  1.00 56.76      A16S
ATOM   7799  C4   A   A 373     121.824  68.342  27.059  1.00 56.76      A16S
ATOM   7800  N3   A   A 373     121.413  69.566  26.694  1.00 56.76      A16S
ATOM   7801  C2   A   A 373     122.280  70.114  25.845  1.00 56.76      A16S
ATOM   7802  N1   A   A 373     123.422  69.611  25.360  1.00 56.76      A16S
ATOM   7803  C6   A   A 373     123.802  68.377  25.758  1.00 56.76      A16S
ATOM   7804  N6   A   A 373     124.938  67.865  25.282  1.00 56.76      A16S
ATOM   7805  C5   A   A 373     122.974  67.699  26.652  1.00 56.76      A16S
ATOM   7806  N7   A   A 373     123.074  66.452  27.237  1.00 56.76      A16S
ATOM   7807  C8   A   A 373     121.994  66.360  27.961  1.00 56.76      A16S
ATOM   7808  C2*  A   A 373     118.747  67.948  27.560  1.00 37.61      A16S
ATOM   7809  O2*  A   A 373     117.828  68.802  28.204  1.00 37.61      A16S
ATOM   7810  C3*  A   A 373     118.146  66.565  27.321  1.00 37.61      A16S
ATOM   7811  O3*  A   A 373     116.748  66.710  27.020  1.00 37.61      A16S
ATOM   7812  P    A   A 374     116.273  67.223  25.561  1.00 39.03      A16S
ATOM   7813  O1P  A   A 374     114.799  67.454  25.580  1.00 58.25      A16S
ATOM   7814  O2P  A   A 374     116.851  66.300  24.552  1.00 58.25      A16S
ATOM   7815  O5*  A   A 374     117.001  68.628  25.374  1.00 39.03      A16S
ATOM   7816  C5*  A   A 374     116.401  69.850  25.830  1.00 39.03      A16S
ATOM   7817  C4*  A   A 374     117.056  71.030  25.157  1.00 39.03      A16S
ATOM   7818  O4*  A   A 374     118.488  70.927  25.342  1.00 39.03      A16S
ATOM   7819  C1*  A   A 374     119.153  71.348  24.165  1.00 39.03      A16S
ATOM   7820  N9   A   A 374     119.909  70.210  23.644  1.00 58.25      A16S
ATOM   7821  C4   A   A 374     120.799  70.231  22.601  1.00 58.25      A16S
ATOM   7822  N3   A   A 374     121.139  71.284  21.844  1.00 58.25      A16S
ATOM   7823  C2   A   A 374     122.038  70.932  20.935  1.00 58.25      A16S
ATOM   7824  N1   A   A 374     122.596  69.740  20.713  1.00 58.25      A16S
ATOM   7825  C6   A   A 374     122.229  68.704  21.490  1.00 58.25      A16S
ATOM   7826  N6   A   A 374     122.780  67.510  21.262  1.00 58.25      A16S
ATOM   7827  C5   A   A 374     121.282  68.945  22.493  1.00 58.25      A16S
ATOM   7828  N7   A   A 374     120.696  68.119  23.440  1.00 58.25      A16S
ATOM   7829  C8   A   A 374     119.890  68.914  24.092  1.00 58.25      A16S
ATOM   7830  C2*  A   A 374     118.098  71.850  23.182  1.00 39.03      A16S
ATOM   7831  O2*  A   A 374     117.958  73.252  23.291  1.00 39.03      A16S
ATOM   7832  C3*  A   A 374     116.868  71.099  23.653  1.00 39.03      A16S
ATOM   7833  O3*  A   A 374     115.698  71.805  23.319  1.00 39.03      A16S
ATOM   7834  P    U   A 375     114.833  71.328  22.066  1.00 35.62      A16S
ATOM   7835  O1P  U   A 375     113.611  72.166  22.006  1.00 49.73      A16S
ATOM   7836  O2P  U   A 375     114.713  69.855  22.166  1.00 49.73      A16S
ATOM   7837  O5*  U   A 375     115.761  71.681  20.826  1.00 35.62      A16S
ATOM   7838  C5*  U   A 375     116.068  73.053  20.510  1.00 35.62      A16S
ATOM   7839  C4*  U   A 375     116.921  73.134  19.263  1.00 35.62      A16S
ATOM   7840  O4*  U   A 375     118.287  72.755  19.572  1.00 35.62      A16S
ATOM   7841  C1*  U   A 375     118.842  72.065  18.468  1.00 35.62      A16S
ATOM   7842  N1   U   A 375     119.188  70.701  18.904  1.00 49.73      A16S
ATOM   7843  C6   U   A 375     118.558  70.100  19.975  1.00 49.73      A16S
ATOM   7844  C2   U   A 375     120.161  70.033  18.199  1.00 49.73      A16S
ATOM   7845  O2   U   A 375     120.753  70.528  17.265  1.00 49.73      A16S
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ATOM   7846  N3  U   A 375     120.417  68.759  18.631  1.00 49.73      A16S
ATOM   7847  C4  U   A 375     119.821  68.100  19.678  1.00 49.73      A16S
ATOM   7848  O4  U   A 375     120.161  66.945  19.935  1.00 49.73      A16S
ATOM   7849  C5  U   A 375     118.836  68.857  20.374  1.00 49.73      A16S
ATOM   7850  C2* U   A 375     117.806  72.077  17.334  1.00 35.62      A16S
ATOM   7851  O2* U   A 375     117.984  73.187  16.472  1.00 35.62      A16S
ATOM   7852  C3* U   A 375     116.511  72.236  18.104  1.00 35.62      A16S
ATOM   7853  O3* U   A 375     115.524  72.816  17.267  1.00 35.62      A16S
ATOM   7854  P   G   A 376     114.520  71.854  16.463  1.00 34.00      A16S
ATOM   7855  O1P G   A 376     113.615  72.708  15.647  1.00 54.96      A16S
ATOM   7856  O2P G   A 376     113.945  70.890  17.442  1.00 54.96      A16S
ATOM   7857  O5* G   A 376     115.466  71.041  15.473  1.00 34.00      A16S
ATOM   7858  C5* G   A 376     116.155  71.711  14.409  1.00 34.00      A16S
ATOM   7859  C4* G   A 376     117.046  70.749  13.651  1.00 34.00      A16S
ATOM   7860  O4* G   A 376     118.215  70.395  14.437  1.00 34.00      A16S
ATOM   7861  C1* G   A 376     118.639  69.096  14.080  1.00 34.00      A16S
ATOM   7862  N9  G   A 376     118.633  68.246  15.266  1.00 54.96      A16S
ATOM   7863  C4  G   A 376     119.228  67.011  15.375  1.00 54.96      A16S
ATOM   7864  N3  G   A 376     119.948  66.392  14.417  1.00 54.96      A16S
ATOM   7865  C2  G   A 376     120.392  65.218  14.813  1.00 54.96      A16S
ATOM   7866  N2  G   A 376     121.126  64.473  13.977  1.00 54.96      A16S
ATOM   7867  N1  G   A 376     120.151  64.687  16.052  1.00 54.96      A16S
ATOM   7868  C6  G   A 376     119.412  65.299  17.054  1.00 54.96      A16S
ATOM   7869  O6  G   A 376     119.252  64.723  18.140  1.00 54.96      A16S
ATOM   7870  C5  G   A 376     118.927  66.570  16.640  1.00 54.96      A16S
ATOM   7871  N7  G   A 376     118.170  67.511  17.319  1.00 54.96      A16S
ATOM   7872  C8  G   A 376     118.026  68.489  16.468  1.00 54.96      A16S
ATOM   7873  C2* G   A 376     117.667  68.559  13.028  1.00 34.00      A16S
ATOM   7874  O2* G   A 376     118.198  68.712  11.729  1.00 34.00      A16S
ATOM   7875  C3* G   A 376     116.438  69.417  13.269  1.00 34.00      A16S
ATOM   7876  O3* G   A 376     115.614  69.474  12.126  1.00 34.00      A16S
ATOM   7877  P   G   A 377     114.475  68.359  11.930  1.00 32.21      A16S
ATOM   7878  O1P G   A 377     113.640  68.741  10.766  1.00 64.72      A16S
ATOM   7879  O2P G   A 377     113.835  68.114  13.248  1.00 64.72      A16S
ATOM   7880  O5* G   A 377     115.281  67.049  11.537  1.00 32.21      A16S
ATOM   7881  C5* G   A 377     116.083  67.025  10.353  1.00 32.21      A16S
ATOM   7882  C4* G   A 377     116.749  65.687  10.201  1.00 32.21      A16S
ATOM   7883  O4* G   A 377     117.709  65.495  11.266  1.00 32.21      A16S
ATOM   7884  C1* G   A 377     117.756  64.123  11.610  1.00 32.21      A16S
ATOM   7885  N9  G   A 377     117.467  64.007  13.034  1.00 64.72      A16S
ATOM   7886  C4  G   A 377     117.649  62.901  13.827  1.00 64.72      A16S
ATOM   7887  N3  G   A 377     118.131  61.712  13.429  1.00 64.72      A16S
ATOM   7888  C2  G   A 377     118.188  60.851  14.425  1.00 64.72      A16S
ATOM   7889  N2  G   A 377     118.662  59.626  14.216  1.00 64.72      A16S
ATOM   7890  N1  G   A 377     117.790  61.129  15.705  1.00 64.72      A16S
ATOM   7891  C6  G   A 377     117.291  62.348  16.136  1.00 64.72      A16S
ATOM   7892  O6  G   A 377     116.961  62.500  17.317  1.00 64.72      A16S
ATOM   7893  C5  G   A 377     117.237  63.283  15.085  1.00 64.72      A16S
ATOM   7894  N7  G   A 377     116.816  64.605  15.086  1.00 64.72      A16S
ATOM   7895  C8  G   A 377     116.965  64.990  13.850  1.00 64.72      A16S
ATOM   7896  C2* G   A 377     116.777  63.371  10.700  1.00 32.21      A16S
ATOM   7897  O2* G   A 377     117.472  62.877   9.574  1.00 32.21      A16S
ATOM   7898  C3* G   A 377     115.835  64.476  10.261  1.00 32.21      A16S
ATOM   7899  O3* G   A 377     115.332  64.191   8.968  1.00 32.21      A16S
ATOM   7900  P   G   A 378     114.007  63.307   8.807  1.00 46.95      A16S
ATOM   7901  O1P G   A 378     113.585  63.421   7.386  1.00 40.72      A16S
ATOM   7902  O2P G   A 378     113.062  63.681   9.870  1.00 40.72      A16S
ATOM   7903  O5* G   A 378     114.502  61.822   9.081  1.00 46.95      A16S
ATOM   7904  C5* G   A 378     115.288  61.126   8.092  1.00 46.95      A16S
ATOM   7905  C4* G   A 378     115.398  59.660   8.434  1.00 46.95      A16S
ATOM   7906  O4* G   A 378     116.320  59.469   9.533  1.00 46.95      A16S
ATOM   7907  C1* G   A 378     115.834  58.454  10.389  1.00 46.95      A16S
ATOM   7908  N9  G   A 378     115.594  59.072  11.684  1.00 40.72      A16S
ATOM   7909  C4  G   A 378     115.503  58.446  12.899  1.00 40.72      A16S
ATOM   7910  N3  G   A 378     115.615  57.123  13.122  1.00 40.72      A16S
ATOM   7911  C2  G   A 378     115.499  56.835  14.401  1.00 40.72      A16S
ATOM   7912  N2  G   A 378     115.591  55.575  14.815  1.00 40.72      A16S
ATOM   7913  N1  G   A 378     115.285  57.766  15.376  1.00 40.72      A16S
ATOM   7914  C6  G   A 378     115.158  59.131  15.163  1.00 40.72      A16S
ATOM   7915  O6  G   A 378     114.955  59.890  16.112  1.00 40.72      A16S
ATOM   7916  C5  G   A 378     115.288  59.454  13.810  1.00 40.72      A16S
ATOM   7917  N7  G   A 378     115.242  60.687  13.182  1.00 40.72      A16S
ATOM   7918  C8  G   A 378     115.423  60.411  11.923  1.00 40.72      A16S
ATOM   7919  C2* G   A 378     114.571  57.868   9.752  1.00 46.95      A16S
ATOM   7920  O2* G   A 378     114.920  56.745   8.970  1.00 46.95      A16S
ATOM   7921  C3* G   A 378     114.101  59.025   8.889  1.00 46.95      A16S
ATOM   7922  O3* G   A 378     113.343  58.600   7.779  1.00 46.95      A16S
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ATOM   7923  P    C   A 379     111.748  58.613   7.878  1.00 36.89      A16S
ATOM   7924  O1P  C   A 379     111.206  58.334   6.529  1.00 45.92      A16S
ATOM   7925  O2P  C   A 379     111.347  59.852   8.591  1.00 45.92      A16S
ATOM   7926  O5*  C   A 379     111.433  57.359   8.804  1.00 36.89      A16S
ATOM   7927  C5*  C   A 379     111.765  56.033   8.357  1.00 36.89      A16S
ATOM   7928  C4*  C   A 379     111.627  55.042   9.486  1.00 36.89      A16S
ATOM   7929  O4*  C   A 379     112.611  55.327  10.508  1.00 36.89      A16S
ATOM   7930  C1*  C   A 379     112.090  54.971  11.767  1.00 36.89      A16S
ATOM   7931  N1   C   A 379     112.053  56.162  12.614  1.00 45.92      A16S
ATOM   7932  C6   C   A 379     111.890  57.407  12.081  1.00 45.92      A16S
ATOM   7933  C2   C   A 379     112.172  55.998  13.986  1.00 45.92      A16S
ATOM   7934  O2   C   A 379     112.353  54.858  14.442  1.00 45.92      A16S
ATOM   7935  N3   C   A 379     112.098  57.078  14.787  1.00 45.92      A16S
ATOM   7936  C4   C   A 379     111.935  58.284  14.262  1.00 45.92      A16S
ATOM   7937  N4   C   A 379     111.880  59.311  15.094  1.00 45.92      A16S
ATOM   7938  C5   C   A 379     111.827  58.486  12.862  1.00 45.92      A16S
ATOM   7939  C2*  C   A 379     110.695  54.394  11.554  1.00 36.89      A16S
ATOM   7940  O2*  C   A 379     110.828  53.001  11.439  1.00 36.89      A16S
ATOM   7941  C3*  C   A 379     110.301  55.018  10.228  1.00 36.89      A16S
ATOM   7942  O3*  C   A 379     109.315  54.244   9.547  1.00 36.89      A16S
ATOM   7943  P    G   A 380     107.789  54.765   9.500  1.00 38.53      A16S
ATOM   7944  O1P  G   A 380     107.017  53.856   8.602  1.00 80.18      A16S
ATOM   7945  O2P  G   A 380     107.794  56.230   9.235  1.00 80.18      A16S
ATOM   7946  O5*  G   A 380     107.284  54.559  10.994  1.00 38.53      A16S
ATOM   7947  C5*  G   A 380     107.422  53.290  11.639  1.00 38.53      A16S
ATOM   7948  C4*  G   A 380     107.187  53.417  13.119  1.00 38.53      A16S
ATOM   7949  O4*  G   A 380     108.272  54.131  13.753  1.00 38.53      A16S
ATOM   7950  C1*  G   A 380     107.795  54.774  14.919  1.00 38.53      A16S
ATOM   7951  N9   G   A 380     108.089  56.202  14.843  1.00 80.18      A16S
ATOM   7952  C4   G   A 380     108.104  57.068  15.907  1.00 80.18      A16S
ATOM   7953  N3   G   A 380     107.908  56.734  17.197  1.00 80.18      A16S
ATOM   7954  C2   G   A 380     107.959  57.785  17.992  1.00 80.18      A16S
ATOM   7955  N2   G   A 380     107.804  57.629  19.307  1.00 80.18      A16S
ATOM   7956  N1   G   A 380     108.173  59.068  17.559  1.00 80.18      A16S
ATOM   7957  C6   G   A 380     108.376  59.443  16.237  1.00 80.18      A16S
ATOM   7958  O6   G   A 380     108.552  60.640  15.957  1.00 80.18      A16S
ATOM   7959  C5   G   A 380     108.339  58.312  15.365  1.00 80.18      A16S
ATOM   7960  N7   G   A 380     108.505  58.225  13.989  1.00 80.18      A16S
ATOM   7961  C8   G   A 380     108.358  56.955  13.726  1.00 80.18      A16S
ATOM   7962  C2*  G   A 380     106.289  54.524  14.993  1.00 38.53      A16S
ATOM   7963  O2*  G   A 380     106.040  53.436  15.859  1.00 38.53      A16S
ATOM   7964  C3*  G   A 380     105.961  54.190  13.548  1.00 38.53      A16S
ATOM   7965  O3*  G   A 380     104.788  53.420  13.416  1.00 38.53      A16S
ATOM   7966  P    C   A 381     103.531  54.037  12.638  1.00 47.05      A16S
ATOM   7967  O1P  C   A 381     104.073  54.832  11.510  1.00 68.02      A16S
ATOM   7968  O2P  C   A 381     102.559  52.930  12.362  1.00 68.02      A16S
ATOM   7969  O5*  C   A 381     102.911  55.042  13.703  1.00 47.05      A16S
ATOM   7970  C5*  C   A 381     101.884  55.973  13.328  1.00 47.05      A16S
ATOM   7971  C4*  C   A 381     101.140  56.454  14.551  1.00 47.05      A16S
ATOM   7972  O4*  C   A 381     100.274  55.398  15.051  1.00 47.05      A16S
ATOM   7973  C1*  C   A 381     100.227  55.452  16.471  1.00 47.05      A16S
ATOM   7974  N1   C   A 381     100.780  54.193  17.021  1.00 68.02      A16S
ATOM   7975  C6   C   A 381     101.114  53.147  16.205  1.00 68.02      A16S
ATOM   7976  C2   C   A 381     100.990  54.096  18.406  1.00 68.02      A16S
ATOM   7977  O2   C   A 381     100.627  55.028  19.135  1.00 68.02      A16S
ATOM   7978  N3   C   A 381     101.575  52.991  18.914  1.00 68.02      A16S
ATOM   7979  C4   C   A 381     101.930  51.997  18.107  1.00 68.02      A16S
ATOM   7980  N4   C   A 381     102.537  50.943  18.652  1.00 68.02      A16S
ATOM   7981  C5   C   A 381     101.686  52.042  16.701  1.00 68.02      A16S
ATOM   7982  C2*  C   A 381     101.053  56.667  16.909  1.00 47.05      A16S
ATOM   7983  O2*  C   A 381     100.215  57.791  17.101  1.00 47.05      A16S
ATOM   7984  C3*  C   A 381     102.010  56.835  15.738  1.00 47.05      A16S
ATOM   7985  O3*  C   A 381     102.533  58.153  15.657  1.00 47.05      A16S
ATOM   7986  P    A   A 382     103.986  58.471  16.280  1.00 47.56      A16S
ATOM   7987  O1P  A   A 382     104.188  59.935  16.182  1.00 61.01      A16S
ATOM   7988  O2P  A   A 382     104.990  57.558  15.684  1.00 61.01      A16S
ATOM   7989  O5*  A   A 382     103.851  58.131  17.833  1.00 47.56      A16S
ATOM   7990  C5*  A   A 382     103.199  59.047  18.746  1.00 47.56      A16S
ATOM   7991  C4*  A   A 382     103.160  58.458  20.136  1.00 47.56      A16S
ATOM   7992  O4*  A   A 382     102.664  57.103  20.009  1.00 47.56      A16S
ATOM   7993  C1*  A   A 382     103.354  56.249  20.905  1.00 47.56      A16S
ATOM   7994  N9   A   A 382     104.005  55.187  20.126  1.00 61.01      A16S
ATOM   7995  C4   A   A 382     104.377  53.950  20.586  1.00 61.01      A16S
ATOM   7996  N3   A   A 382     104.237  53.471  21.827  1.00 61.01      A16S
ATOM   7997  C2   A   A 382     104.711  52.233  21.903  1.00 61.01      A16S
ATOM   7998  N1   A   A 382     105.268  51.479  20.952  1.00 61.01      A16S
ATOM   7999  C6   A   A 382     105.387  51.992  19.717  1.00 61.01      A16S
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ATOM   8000  N6  A   A 382     105.934  51.237  18.772  1.00 61.01      A16S
ATOM   8001  C5  A   A 382     104.927  53.293  19.505  1.00 61.01      A16S
ATOM   8002  N7  A   A 382     104.913  54.099  18.382  1.00 61.01      A16S
ATOM   8003  C8  A   A 382     104.359  55.208  18.800  1.00 61.01      A16S
ATOM   8004  C2* A   A 382     104.296  57.114  21.748  1.00 47.56      A16S
ATOM   8005  O2* A   A 382     103.664  57.441  22.970  1.00 47.56      A16S
ATOM   8006  C3* A   A 382     104.501  58.334  20.855  1.00 47.56      A16S
ATOM   8007  O3* A   A 382     104.763  59.505  21.637  1.00 47.56      A16S
ATOM   8008  P   A   A 383     106.219  59.734  22.298  1.00 52.67      A16S
ATOM   8009  O1P A   A 383     106.144  60.930  23.177  1.00 89.21      A16S
ATOM   8010  O2P A   A 383     107.239  59.687  21.217  1.00 89.21      A16S
ATOM   8011  O5* A   A 383     106.425  58.478  23.258  1.00 52.67      A16S
ATOM   8012  C5* A   A 383     105.757  58.397  24.538  1.00 52.67      A16S
ATOM   8013  C4* A   A 383     106.003  57.050  25.177  1.00 52.67      A16S
ATOM   8014  O4* A   A 383     105.509  56.008  24.300  1.00 52.67      A16S
ATOM   8015  C1* A   A 383     106.381  54.896  24.343  1.00 52.67      A16S
ATOM   8016  N9  A   A 383     106.926  54.694  23.007  1.00 89.21      A16S
ATOM   8017  C4  A   A 383     107.451  53.527  22.526  1.00 89.21      A16S
ATOM   8018  N3  A   A 383     107.578  52.365  23.182  1.00 89.21      A16S
ATOM   8019  C2  A   A 383     108.102  51.439  22.388  1.00 89.21      A16S
ATOM   8020  N1  A   A 383     108.487  51.537  21.109  1.00 89.21      A16S
ATOM   8021  C6  A   A 383     108.352  52.725  20.485  1.00 89.21      A16S
ATOM   8022  N6  A   A 383     108.741  52.829  19.212  1.00 89.21      A16S
ATOM   8023  C5  A   A 383     107.806  53.785  21.219  1.00 89.21      A16S
ATOM   8024  N7  A   A 383     107.527  55.099  20.886  1.00 89.21      A16S
ATOM   8025  C8  A   A 383     107.014  55.594  21.982  1.00 89.21      A16S
ATOM   8026  C2* A   A 383     107.479  55.194  25.359  1.00 52.67      A16S
ATOM   8027  O2* A   A 383     107.150  54.621  26.607  1.00 52.67      A16S
ATOM   8028  C3* A   A 383     107.465  56.711  25.388  1.00 52.67      A16S
ATOM   8029  O3* A   A 383     107.936  57.192  26.625  1.00 52.67      A16S
ATOM   8030  P   G   A 384     109.289  58.046  26.670  1.00 41.87      A16S
ATOM   8031  O1P G   A 384     109.923  57.841  28.002  1.00 60.28      A16S
ATOM   8032  O2P G   A 384     108.959  59.424  26.214  1.00 60.28      A16S
ATOM   8033  O5* G   A 384     110.204  57.385  25.549  1.00 41.87      A16S
ATOM   8034  C5* G   A 384     111.245  56.448  25.869  1.00 41.87      A16S
ATOM   8035  C4* G   A 384     111.289  55.352  24.830  1.00 41.87      A16S
ATOM   8036  O4* G   A 384     110.342  55.623  23.759  1.00 41.87      A16S
ATOM   8037  C1* G   A 384     110.872  55.179  22.526  1.00 41.87      A16S
ATOM   8038  N9  G   A 384     110.898  56.301  21.589  1.00 60.28      A16S
ATOM   8039  C4  G   A 384     111.213  56.236  20.252  1.00 60.28      A16S
ATOM   8040  N3  G   A 384     111.575  55.128  19.577  1.00 60.28      A16S
ATOM   8041  C2  G   A 384     111.806  55.381  18.305  1.00 60.28      A16S
ATOM   8042  N2  G   A 384     112.171  54.392  17.487  1.00 60.28      A16S
ATOM   8043  N1  G   A 384     111.695  56.617  17.740  1.00 60.28      A16S
ATOM   8044  C6  G   A 384     111.327  57.769  18.411  1.00 60.28      A16S
ATOM   8045  O6  G   A 384     111.263  58.834  17.800  1.00 60.28      A16S
ATOM   8046  C5  G   A 384     111.072  57.518  19.780  1.00 60.28      A16S
ATOM   8047  N7  G   A 384     110.683  58.377  20.796  1.00 60.28      A16S
ATOM   8048  C8  G   A 384     110.598  57.614  21.849  1.00 60.28      A16S
ATOM   8049  C2* G   A 384     112.237  54.543  22.804  1.00 41.87      A16S
ATOM   8050  O2* G   A 384     112.072  53.135  22.866  1.00 41.87      A16S
ATOM   8051  C3* G   A 384     112.620  55.193  24.131  1.00 41.87      A16S
ATOM   8052  O3* G   A 384     113.502  54.417  24.916  1.00 41.87      A16S
ATOM   8053  P   C   A 385     115.061  54.797  24.948  1.00 46.27      A16S
ATOM   8054  O1P C   A 385     115.729  54.022  26.031  1.00 54.58      A16S
ATOM   8055  O2P C   A 385     115.172  56.283  24.928  1.00 54.58      A16S
ATOM   8056  O5* C   A 385     115.598  54.243  23.560  1.00 46.27      A16S
ATOM   8057  C5* C   A 385     115.570  52.840  23.291  1.00 46.27      A16S
ATOM   8058  C4* C   A 385     115.966  52.577  21.867  1.00 46.27      A16S
ATOM   8059  O4* C   A 385     114.943  53.046  20.953  1.00 46.27      A16S
ATOM   8060  C1* C   A 385     115.554  53.510  19.763  1.00 46.27      A16S
ATOM   8061  N1  C   A 385     115.179  54.919  19.553  1.00 54.58      A16S
ATOM   8062  C6  C   A 385     114.951  55.752  20.611  1.00 54.58      A16S
ATOM   8063  C2  C   A 385     115.063  55.397  18.243  1.00 54.58      A16S
ATOM   8064  O2  C   A 385     115.267  54.622  17.296  1.00 54.58      A16S
ATOM   8065  N3  C   A 385     114.728  56.686  18.038  1.00 54.58      A16S
ATOM   8066  C4  C   A 385     114.507  57.488  19.074  1.00 54.58      A16S
ATOM   8067  N4  C   A 385     114.171  58.749  18.820  1.00 54.58      A16S
ATOM   8068  C5  C   A 385     114.617  57.031  20.419  1.00 54.58      A16S
ATOM   8069  C2* C   A 385     117.064  53.324  19.915  1.00 46.27      A16S
ATOM   8070  O2* C   A 385     117.451  52.093  19.354  1.00 46.27      A16S
ATOM   8071  C3* C   A 385     117.219  53.290  21.421  1.00 46.27      A16S
ATOM   8072  O3* C   A 385     118.371  52.594  21.806  1.00 46.27      A16S
ATOM   8073  P   C   A 386     119.726  53.406  21.999  1.00 45.72      A16S
ATOM   8074  O1P C   A 386     120.801  52.470  22.407  1.00 66.13      A16S
ATOM   8075  O2P C   A 386     119.415  54.592  22.848  1.00 66.13      A16S
ATOM   8076  O5* C   A 386     120.054  53.888  20.520  1.00 45.72      A16S
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ATOM   8077  C5*  C   A 386     120.345  52.925  19.502  1.00 45.72      A16S
ATOM   8078  C4*  C   A 386     120.594  53.597  18.170  1.00 45.72      A16S
ATOM   8079  O4*  C   A 386     119.359  54.059  17.572  1.00 45.72      A16S
ATOM   8080  C1*  C   A 386     119.629  55.178  16.753  1.00 45.72      A16S
ATOM   8081  N1   C   A 386     118.909  56.335  17.299  1.00 66.13      A16S
ATOM   8082  C6   C   A 386     118.787  56.510  18.648  1.00 66.13      A16S
ATOM   8083  C2   C   A 386     118.371  57.270  16.416  1.00 66.13      A16S
ATOM   8084  O2   C   A 386     118.464  57.069  15.198  1.00 66.13      A16S
ATOM   8085  N3   C   A 386     117.760  58.366  16.912  1.00 66.13      A16S
ATOM   8086  C4   C   A 386     117.661  58.533  18.231  1.00 66.13      A16S
ATOM   8087  N4   C   A 386     117.056  59.629  18.680  1.00 66.13      A16S
ATOM   8088  C5   C   A 386     118.178  57.584  19.150  1.00 66.13      A16S
ATOM   8089  C2*  C   A 386     121.136  55.427  16.797  1.00 45.72      A16S
ATOM   8090  O2*  C   A 386     121.762  54.762  15.715  1.00 45.72      A16S
ATOM   8091  C3*  C   A 386     121.509  54.805  18.130  1.00 45.72      A16S
ATOM   8092  O3*  C   A 386     122.870  54.442  18.147  1.00 45.72      A16S
ATOM   8093  P    U   A 387     123.910  55.354  18.950  1.00 38.46      A16S
ATOM   8094  O1P  U   A 387     125.265  54.707  18.860  1.00 64.26      A16S
ATOM   8095  O2P  U   A 387     123.313  55.623  20.278  1.00 64.26      A16S
ATOM   8096  O5*  U   A 387     123.903  56.732  18.143  1.00 38.46      A16S
ATOM   8097  C5*  U   A 387     123.934  56.734  16.707  1.00 38.46      A16S
ATOM   8098  C4*  U   A 387     123.747  58.127  16.146  1.00 38.46      A16S
ATOM   8099  O4*  U   A 387     122.359  58.552  16.133  1.00 38.46      A16S
ATOM   8100  C1*  U   A 387     122.304  59.964  16.079  1.00 38.46      A16S
ATOM   8101  N1   U   A 387     121.500  60.468  17.198  1.00 64.26      A16S
ATOM   8102  C6   U   A 387     121.530  59.887  18.440  1.00 64.26      A16S
ATOM   8103  C2   U   A 387     120.741  61.582  16.962  1.00 64.26      A16S
ATOM   8104  O2   U   A 387     120.646  62.088  15.859  1.00 64.26      A16S
ATOM   8105  N3   U   A 387     120.090  62.084  18.062  1.00 64.26      A16S
ATOM   8106  C4   U   A 387     120.107  61.573  19.341  1.00 64.26      A16S
ATOM   8107  O4   U   A 387     119.521  62.173  20.244  1.00 64.26      A16S
ATOM   8108  C5   U   A 387     120.878  60.388  19.491  1.00 64.26      A16S
ATOM   8109  C2*  U   A 387     123.738  60.478  16.188  1.00 38.46      A16S
ATOM   8110  O2*  U   A 387     124.191  60.832  14.892  1.00 38.46      A16S
ATOM   8111  C3*  U   A 387     124.455  59.279  16.809  1.00 38.46      A16S
ATOM   8112  O3*  U   A 387     125.834  59.262  16.544  1.00 38.46      A16S
ATOM   8113  P    G   A 388     126.861  59.312  17.770  1.00 46.22      A16S
ATOM   8114  O1P  G   A 388     127.236  57.923  18.105  1.00 61.71      A16S
ATOM   8115  O2P  G   A 388     126.287  60.182  18.822  1.00 61.71      A16S
ATOM   8116  O5*  G   A 388     128.119  60.046  17.141  1.00 46.22      A16S
ATOM   8117  C5*  G   A 388     128.071  61.458  16.895  1.00 46.22      A16S
ATOM   8118  C4*  G   A 388     129.453  61.996  16.643  1.00 46.22      A16S
ATOM   8119  O4*  G   A 388     130.380  61.451  17.624  1.00 46.22      A16S
ATOM   8120  C1*  G   A 388     131.432  60.775  16.972  1.00 46.22      A16S
ATOM   8121  N9   G   A 388     131.768  59.603  17.773  1.00 61.71      A16S
ATOM   8122  C4   G   A 388     132.874  59.453  18.568  1.00 61.71      A16S
ATOM   8123  N3   G   A 388     133.843  60.365  18.747  1.00 61.71      A16S
ATOM   8124  C2   G   A 388     134.770  59.940  19.591  1.00 61.71      A16S
ATOM   8125  N2   G   A 388     135.803  60.729  19.901  1.00 61.71      A16S
ATOM   8126  N1   G   A 388     134.755  58.715  20.199  1.00 61.71      A16S
ATOM   8127  C6   G   A 388     133.772  57.756  20.033  1.00 61.71      A16S
ATOM   8128  O6   G   A 388     133.857  56.681  20.643  1.00 61.71      A16S
ATOM   8129  C5   G   A 388     132.757  58.202  19.133  1.00 61.71      A16S
ATOM   8130  N7   G   A 388     131.597  57.576  18.700  1.00 61.71      A16S
ATOM   8131  C8   G   A 388     131.044  58.442  17.896  1.00 61.71      A16S
ATOM   8132  C2*  G   A 388     130.921  60.460  15.568  1.00 46.22      A16S
ATOM   8133  O2*  G   A 388     131.995  60.374  14.665  1.00 46.22      A16S
ATOM   8134  C3*  G   A 388     130.032  61.664  15.284  1.00 46.22      A16S
ATOM   8135  O3*  G   A 388     130.844  62.771  14.945  1.00 46.22      A16S
ATOM   8136  P    A   A 389     130.641  63.515  13.548  1.00 44.65      A16S
ATOM   8137  O1P  A   A 389     130.718  62.465  12.493  1.00 26.85      A16S
ATOM   8138  O2P  A   A 389     131.592  64.652  13.527  1.00 26.85      A16S
ATOM   8139  O5*  A   A 389     129.161  64.116  13.586  1.00 44.65      A16S
ATOM   8140  C5*  A   A 389     128.501  64.392  12.343  1.00 44.65      A16S
ATOM   8141  C4*  A   A 389     127.347  65.366  12.488  1.00 44.65      A16S
ATOM   8142  O4*  A   A 389     126.120  64.702  12.862  1.00 44.65      A16S
ATOM   8143  C1*  A   A 389     125.204  65.677  13.304  1.00 44.65      A16S
ATOM   8144  N9   A   A 389     124.708  65.332  14.633  1.00 26.85      A16S
ATOM   8145  C4   A   A 389     123.783  66.084  15.316  1.00 26.85      A16S
ATOM   8146  N3   A   A 389     123.207  67.223  14.905  1.00 26.85      A16S
ATOM   8147  C2   A   A 389     122.354  67.657  15.801  1.00 26.85      A16S
ATOM   8148  N1   A   A 389     122.022  67.127  16.970  1.00 26.85      A16S
ATOM   8149  C6   A   A 389     122.615  65.989  17.358  1.00 26.85      A16S
ATOM   8150  N6   A   A 389     122.260  65.464  18.527  1.00 26.85      A16S
ATOM   8151  C5   A   A 389     123.560  65.428  16.498  1.00 26.85      A16S
ATOM   8152  N7   A   A 389     124.346  64.289  16.580  1.00 26.85      A16S
ATOM   8153  C8   A   A 389     125.005  64.278  15.448  1.00 26.85      A16S
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ATOM	8154	C2*	A	A 389	125.926	67.023	13.324	1.00	44.65	A16S
ATOM	8155	O2*	A	A 389	125.625	67.713	12.124	1.00	44.65	A16S
ATOM	8156	C3*	A	A 389	127.389	66.610	13.360	1.00	44.65	A16S
ATOM	8157	O3*	A	A 389	128.111	67.690	12.791	1.00	44.65	A16S
ATOM	8158	P	C	A 390	128.624	68.894	13.731	1.00	43.91	A16S
ATOM	8159	O1P	C	A 390	128.684	70.140	12.927	1.00	37.76	A16S
ATOM	8160	O2P	C	A 390	129.840	68.400	14.413	1.00	37.76	A16S
ATOM	8161	O5*	C	A 390	127.514	69.072	14.859	1.00	43.91	A16S
ATOM	8162	C5*	C	A 390	126.336	69.876	14.643	1.00	43.91	A16S
ATOM	8163	C4*	C	A 390	125.426	69.792	15.848	1.00	43.91	A16S
ATOM	8164	O4*	C	A 390	125.213	68.392	16.156	1.00	43.91	A16S
ATOM	8165	C1*	C	A 390	125.201	68.206	17.552	1.00	43.91	A16S
ATOM	8166	N1	C	A 390	126.321	67.323	17.902	1.00	37.76	A16S
ATOM	8167	C6	C	A 390	127.541	67.486	17.318	1.00	37.76	A16S
ATOM	8168	C2	C	A 390	126.128	66.324	18.854	1.00	37.76	A16S
ATOM	8169	O2	C	A 390	125.004	66.172	19.344	1.00	37.76	A16S
ATOM	8170	N3	C	A 390	127.170	65.539	19.213	1.00	37.76	A16S
ATOM	8171	C4	C	A 390	128.358	65.710	18.637	1.00	37.76	A16S
ATOM	8172	N4	C	A 390	129.355	64.908	19.001	1.00	37.76	A16S
ATOM	8173	C5	C	A 390	128.576	66.709	17.652	1.00	37.76	A16S
ATOM	8174	C2*	C	A 390	125.305	69.584	18.210	1.00	43.91	A16S
ATOM	8175	O2*	C	A 390	124.009	70.075	18.472	1.00	43.91	A16S
ATOM	8176	C3*	C	A 390	125.991	70.397	17.126	1.00	43.91	A16S
ATOM	8177	O3*	C	A 390	125.627	71.768	17.225	1.00	43.91	A16S
ATOM	8178	P	G	A 391	126.676	72.838	17.801	1.00	39.73	A16S
ATOM	8179	O1P	G	A 391	126.265	74.172	17.296	1.00	75.89	A16S
ATOM	8180	O2P	G	A 391	128.053	72.350	17.551	1.00	75.89	A16S
ATOM	8181	O5*	G	A 391	126.428	72.824	19.366	1.00	39.73	A16S
ATOM	8182	C5*	G	A 391	125.141	73.140	19.886	1.00	39.73	A16S
ATOM	8183	C4*	G	A 391	125.021	72.643	21.290	1.00	39.73	A16S
ATOM	8184	O4*	G	A 391	125.010	71.194	21.317	1.00	39.73	A16S
ATOM	8185	C1*	G	A 391	125.702	70.737	22.462	1.00	39.73	A16S
ATOM	8186	N9	G	A 391	126.785	69.864	22.017	1.00	75.89	A16S
ATOM	8187	C4	G	A 391	127.486	68.964	22.783	1.00	75.89	A16S
ATOM	8188	N3	G	A 391	127.318	68.743	24.097	1.00	75.89	A16S
ATOM	8189	C2	G	A 391	128.133	67.810	24.550	1.00	75.89	A16S
ATOM	8190	N2	G	A 391	128.101	67.472	25.842	1.00	75.89	A16S
ATOM	8191	N1	G	A 391	129.038	67.144	23.774	1.00	75.89	A16S
ATOM	8192	C6	G	A 391	129.229	67.354	22.418	1.00	75.89	A16S
ATOM	8193	O6	G	A 391	130.078	66.699	21.811	1.00	75.89	A16S
ATOM	8194	C5	G	A 391	128.364	68.355	21.919	1.00	75.89	A16S
ATOM	8195	N7	G	A 391	128.234	68.871	20.639	1.00	75.89	A16S
ATOM	8196	C8	G	A 391	127.290	69.765	20.746	1.00	75.89	A16S
ATOM	8197	C2*	G	A 391	126.158	71.970	23.250	1.00	39.73	A16S
ATOM	8198	O2*	G	A 391	125.194	72.275	24.248	1.00	39.73	A16S
ATOM	8199	C3*	G	A 391	126.184	73.040	22.167	1.00	39.73	A16S
ATOM	8200	O3*	G	A 391	125.962	74.342	22.667	1.00	39.73	A16S
ATOM	8201	P	G	A 392	127.162	75.132	23.361	1.00	32.07	A16S
ATOM	8202	O1P	G	A 392	126.553	76.257	24.119	1.00	58.87	A16S
ATOM	8203	O2P	G	A 392	128.202	75.406	22.351	1.00	58.87	A16S
ATOM	8204	O5*	G	A 392	127.740	74.066	24.383	1.00	32.07	A16S
ATOM	8205	C5*	G	A 392	129.119	74.037	24.706	1.00	32.07	A16S
ATOM	8206	C4*	G	A 392	129.365	72.952	25.701	1.00	32.07	A16S
ATOM	8207	O4*	G	A 392	129.033	71.675	25.098	1.00	32.07	A16S
ATOM	8208	C1*	G	A 392	129.879	70.666	25.633	1.00	32.07	A16S
ATOM	8209	N9	G	A 392	130.639	70.042	24.553	1.00	58.87	A16S
ATOM	8210	C4	G	A 392	131.510	69.000	24.702	1.00	58.87	A16S
ATOM	8211	N3	G	A 392	131.783	68.365	25.857	1.00	58.87	A16S
ATOM	8212	C2	G	A 392	132.704	67.437	25.701	1.00	58.87	A16S
ATOM	8213	N2	G	A 392	133.113	66.726	26.757	1.00	58.87	A16S
ATOM	8214	N1	G	A 392	133.296	67.143	24.503	1.00	58.87	A16S
ATOM	8215	C6	G	A 392	133.019	67.780	23.300	1.00	58.87	A16S
ATOM	8216	O6	G	A 392	133.608	67.436	22.275	1.00	58.87	A16S
ATOM	8217	C5	G	A 392	132.047	68.788	23.457	1.00	58.87	A16S
ATOM	8218	N7	G	A 392	131.505	69.665	22.532	1.00	58.87	A16S
ATOM	8219	C8	G	A 392	130.666	70.382	23.224	1.00	58.87	A16S
ATOM	8220	C2*	G	A 392	130.819	71.340	26.635	1.00	32.07	A16S
ATOM	8221	O2*	G	A 392	130.290	71.166	27.935	1.00	32.07	A16S
ATOM	8222	C3*	G	A 392	130.797	72.784	26.151	1.00	32.07	A16S
ATOM	8223	O3*	G	A 392	131.116	73.712	27.155	1.00	32.07	A16S
ATOM	8224	P	A	A 393	132.581	74.350	27.191	1.00	50.99	A16S
ATOM	8225	O1P	A	A 393	132.541	75.507	28.130	1.00	63.10	A16S
ATOM	8226	O2P	A	A 393	133.050	74.548	25.797	1.00	63.10	A16S
ATOM	8227	O5*	A	A 393	133.459	73.198	27.843	1.00	50.99	A16S
ATOM	8228	C5*	A	A 393	133.270	72.826	29.213	1.00	50.99	A16S
ATOM	8229	C4*	A	A 393	134.039	71.572	29.513	1.00	50.99	A16S
ATOM	8230	O4*	A	A 393	133.495	70.496	28.719	1.00	50.99	A16S

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ATOM   8231  C1* A   A 393     134.542  69.659  28.265  1.00 50.99      A16S
ATOM   8232  N9  A   A 393     134.614  69.784  26.814  1.00 63.10      A16S
ATOM   8233  C4  A   A 393     135.510  69.153  25.991  1.00 63.10      A16S
ATOM   8234  N3  A   A 393     136.458  68.274  26.345  1.00 63.10      A16S
ATOM   8235  C2  A   A 393     137.160  67.896  25.281  1.00 63.10      A16S
ATOM   8236  N1  A   A 393     137.033  68.275  24.006  1.00 63.10      A16S
ATOM   8237  C6  A   A 393     136.066  69.159  23.693  1.00 63.10      A16S
ATOM   8238  N6  A   A 393     135.936  69.544  22.425  1.00 63.10      A16S
ATOM   8239  C5  A   A 393     135.252  69.626  24.725  1.00 63.10      A16S
ATOM   8240  N7  A   A 393     134.188  70.512  24.741  1.00 63.10      A16S
ATOM   8241  C8  A   A 393     133.846  70.569  26.000  1.00 63.10      A16S
ATOM   8242  C2* A   A 393     135.838  70.158  28.899  1.00 50.99      A16S
ATOM   8243  O2* A   A 393     136.085  69.441  30.090  1.00 50.99      A16S
ATOM   8244  C3* A   A 393     135.508  71.620  29.141  1.00 50.99      A16S
ATOM   8245  O3* A   A 393     136.289  72.168  30.182  1.00 50.99      A16S
ATOM   8246  P   G   A 394     137.706  72.834  29.836  1.00 41.90      A16S
ATOM   8247  O1P G   A 394     138.357  73.191  31.121  1.00 61.22      A16S
ATOM   8248  O2P G   A 394     137.467  73.893  28.813  1.00 61.22      A16S
ATOM   8249  O5* G   A 394     138.540  71.645  29.180  1.00 41.90      A16S
ATOM   8250  C5* G   A 394     138.783  70.446  29.915  1.00 41.90      A16S
ATOM   8251  C4* G   A 394     139.745  69.561  29.175  1.00 41.90      A16S
ATOM   8252  O4* G   A 394     139.126  69.011  27.985  1.00 41.90      A16S
ATOM   8253  C1* G   A 394     140.122  68.807  26.989  1.00 41.90      A16S
ATOM   8254  N9  G   A 394     139.727  69.500  25.769  1.00 61.22      A16S
ATOM   8255  C4  G   A 394     140.295  69.327  24.541  1.00 61.22      A16S
ATOM   8256  N3  G   A 394     141.331  68.522  24.268  1.00 61.22      A16S
ATOM   8257  C2  G   A 394     141.653  68.553  22.995  1.00 61.22      A16S
ATOM   8258  N2  G   A 394     142.677  67.812  22.551  1.00 61.22      A16S
ATOM   8259  N1  G   A 394     141.003  69.310  22.059  1.00 61.22      A16S
ATOM   8260  C6  G   A 394     139.935  70.151  22.313  1.00 61.22      A16S
ATOM   8261  O6  G   A 394     139.426  70.797  21.379  1.00 61.22      A16S
ATOM   8262  C5  G   A 394     139.582  70.132  23.688  1.00 61.22      A16S
ATOM   8263  N7  G   A 394     138.595  70.819  24.376  1.00 61.22      A16S
ATOM   8264  C8  G   A 394     138.727  70.421  25.609  1.00 61.22      A16S
ATOM   8265  C2* G   A 394     141.459  69.310  27.538  1.00 41.90      A16S
ATOM   8266  O2* G   A 394     142.259  68.221  27.957  1.00 41.90      A16S
ATOM   8267  C3* G   A 394     140.993  70.241  28.652  1.00 41.90      A16S
ATOM   8268  O3* G   A 394     141.948  70.462  29.654  1.00 41.90      A16S
ATOM   8269  P   C   A 395     142.646  71.897  29.736  1.00 37.38      A16S
ATOM   8270  O1P C   A 395     143.297  72.058  31.061  1.00 55.59      A16S
ATOM   8271  O2P C   A 395     141.640  72.896  29.295  1.00 55.59      A16S
ATOM   8272  O5* C   A 395     143.792  71.772  28.637  1.00 37.38      A16S
ATOM   8273  C5* C   A 395     144.793  70.753  28.758  1.00 37.38      A16S
ATOM   8274  C4* C   A 395     145.470  70.508  27.434  1.00 37.38      A16S
ATOM   8275  O4* C   A 395     144.498  70.069  26.457  1.00 37.38      A16S
ATOM   8276  C1* C   A 395     144.932  70.445  25.161  1.00 37.38      A16S
ATOM   8277  N1  C   A 395     143.871  71.195  24.485  1.00 55.59      A16S
ATOM   8278  C6  C   A 395     142.830  71.752  25.174  1.00 55.59      A16S
ATOM   8279  C2  C   A 395     143.959  71.334  23.111  1.00 55.59      A16S
ATOM   8280  O2  C   A 395     144.916  70.819  22.525  1.00 55.59      A16S
ATOM   8281  N3  C   A 395     143.011  72.025  22.455  1.00 55.59      A16S
ATOM   8282  C4  C   A 395     142.000  72.571  23.128  1.00 55.59      A16S
ATOM   8283  N4  C   A 395     141.083  73.250  22.433  1.00 55.59      A16S
ATOM   8284  C5  C   A 395     141.882  72.445  24.543  1.00 55.59      A16S
ATOM   8285  C2* C   A 395     146.199  71.278  25.304  1.00 37.38      A16S
ATOM   8286  O2* C   A 395     147.306  70.481  24.950  1.00 37.38      A16S
ATOM   8287  C3* C   A 395     146.124  71.695  26.768  1.00 37.38      A16S
ATOM   8288  O3* C   A 395     147.379  71.981  27.319  1.00 37.38      A16S
ATOM   8289  P   G   A 396     147.784  73.510  27.549  1.00 46.41      A16S
ATOM   8290  O1P G   A 396     149.033  73.574  28.363  1.00 45.82      A16S
ATOM   8291  O2P G   A 396     146.572  74.250  27.986  1.00 45.82      A16S
ATOM   8292  O5* G   A 396     148.146  74.007  26.090  1.00 46.41      A16S
ATOM   8293  C5* G   A 396     149.324  73.522  25.442  1.00 46.41      A16S
ATOM   8294  C4* G   A 396     149.464  74.169  24.104  1.00 46.41      A16S
ATOM   8295  O4* G   A 396     148.419  73.681  23.239  1.00 46.41      A16S
ATOM   8296  C1* G   A 396     148.047  74.695  22.344  1.00 46.41      A16S
ATOM   8297  N9  G   A 396     146.606  74.876  22.409  1.00 45.82      A16S
ATOM   8298  C4  G   A 396     145.815  75.321  21.391  1.00 45.82      A16S
ATOM   8299  N3  G   A 396     146.241  75.671  20.170  1.00 45.82      A16S
ATOM   8300  C2  G   A 396     145.249  76.058  19.398  1.00 45.82      A16S
ATOM   8301  N2  G   A 396     145.500  76.462  18.133  1.00 45.82      A16S
ATOM   8302  N1  G   A 396     143.938  76.089  19.793  1.00 45.82      A16S
ATOM   8303  C6  G   A 396     143.474  75.730  21.045  1.00 45.82      A16S
ATOM   8304  O6  G   A 396     142.263  75.795  21.291  1.00 45.82      A16S
ATOM   8305  C5  G   A 396     144.535  75.320  21.889  1.00 45.82      A16S
ATOM   8306  N7  G   A 396     144.523  74.886  23.204  1.00 45.82      A16S
ATOM   8307  C8  G   A 396     145.775  74.636  23.469  1.00 45.82      A16S
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ATOM   8308  C2* G   A 396     148.858  75.943  22.680  1.00 46.41      A16S
ATOM   8309  O2* G   A 396     149.971  75.965  21.820  1.00 46.41      A16S
ATOM   8310  C3* G   A 396     149.282  75.672  24.111  1.00 46.41      A16S
ATOM   8311  O3* G   A 396     150.494  76.329  24.469  1.00 46.41      A16S
ATOM   8312  P    A   A 397     150.503  77.359  25.708  1.00 55.31      A16S
ATOM   8313  O1P A   A 397     151.922  77.687  25.990  1.00 48.10      A16S
ATOM   8314  O2P A   A 397     149.630  76.848  26.800  1.00 48.10      A16S
ATOM   8315  O5* A   A 397     149.812  78.665  25.132  1.00 55.31      A16S
ATOM   8316  C5* A   A 397     150.493  79.455  24.165  1.00 55.31      A16S
ATOM   8317  C4* A   A 397     149.608  80.560  23.670  1.00 55.31      A16S
ATOM   8318  O4* A   A 397     149.393  81.504  24.743  1.00 55.31      A16S
ATOM   8319  C1* A   A 397     149.425  82.821  24.228  1.00 55.31      A16S
ATOM   8320  N9   A   A 397     150.495  83.547  24.915  1.00 48.10      A16S
ATOM   8321  C4   A   A 397     151.830  83.228  24.973  1.00 48.10      A16S
ATOM   8322  N3   A   A 397     152.450  82.199  24.382  1.00 48.10      A16S
ATOM   8323  C2   A   A 397     153.747  82.202  24.675  1.00 48.10      A16S
ATOM   8324  N1   A   A 397     154.441  83.048  25.434  1.00 48.10      A16S
ATOM   8325  C6   A   A 397     153.789  84.071  26.013  1.00 48.10      A16S
ATOM   8326  N6   A   A 397     154.483  84.918  26.771  1.00 48.10      A16S
ATOM   8327  C5   A   A 397     152.412  84.184  25.778  1.00 48.10      A16S
ATOM   8328  N7   A   A 397     151.470  85.106  26.200  1.00 48.10      A16S
ATOM   8329  C8   A   A 397     150.354  84.686  25.660  1.00 48.10      A16S
ATOM   8330  C2* A   A 397     149.582  82.725  22.710  1.00 55.31      A16S
ATOM   8331  O2* A   A 397     148.301  82.720  22.107  1.00 55.31      A16S
ATOM   8332  C3* A   A 397     150.257  81.375  22.568  1.00 55.31      A16S
ATOM   8333  O3* A   A 397     150.033  80.768  21.314  1.00 55.31      A16S
ATOM   8334  P    C   A 398     150.738  79.366  20.990  1.00 48.10      A16S
ATOM   8335  O1P C   A 398     149.819  78.387  21.584  1.00 37.99      A16S
ATOM   8336  O2P C   A 398     152.191  79.359  21.345  1.00 37.99      A16S
ATOM   8337  O5* C   A 398     150.617  79.210  19.423  1.00 48.10      A16S
ATOM   8338  C5* C   A 398     151.094  80.229  18.561  1.00 48.10      A16S
ATOM   8339  C4* C   A 398     149.986  80.688  17.666  1.00 48.10      A16S
ATOM   8340  O4* C   A 398     149.000  79.628  17.559  1.00 48.10      A16S
ATOM   8341  C1* C   A 398     147.723  80.191  17.375  1.00 48.10      A16S
ATOM   8342  N1   C   A 398     146.868  79.824  18.509  1.00 37.99      A16S
ATOM   8343  C6   C   A 398     147.394  79.526  19.737  1.00 37.99      A16S
ATOM   8344  C2   C   A 398     145.486  79.798  18.309  1.00 37.99      A16S
ATOM   8345  O2   C   A 398     145.039  80.044  17.177  1.00 37.99      A16S
ATOM   8346  N3   C   A 398     144.671  79.496  19.340  1.00 37.99      A16S
ATOM   8347  C4   C   A 398     145.187  79.200  20.529  1.00 37.99      A16S
ATOM   8348  N4   C   A 398     144.334  78.882  21.506  1.00 37.99      A16S
ATOM   8349  C5   C   A 398     146.599  79.209  20.765  1.00 37.99      A16S
ATOM   8350  C2* C   A 398     147.906  81.699  17.299  1.00 48.10      A16S
ATOM   8351  O2* C   A 398     148.096  82.009  15.926  1.00 48.10      A16S
ATOM   8352  C3* C   A 398     149.175  81.885  18.117  1.00 48.10      A16S
ATOM   8353  O3* C   A 398     149.844  83.085  17.790  1.00 48.10      A16S
ATOM   8354  P    G   A 399     149.436  84.454  18.522  1.00 34.75      A16S
ATOM   8355  O1P G   A 399     150.343  85.472  17.941  1.00 45.92      A16S
ATOM   8356  O2P G   A 399     149.400  84.260  19.990  1.00 45.92      A16S
ATOM   8357  O5* G   A 399     147.965  84.770  18.006  1.00 34.75      A16S
ATOM   8358  C5* G   A 399     147.768  85.184  16.658  1.00 34.75      A16S
ATOM   8359  C4* G   A 399     146.358  85.643  16.440  1.00 34.75      A16S
ATOM   8360  O4* G   A 399     145.449  84.528  16.538  1.00 34.75      A16S
ATOM   8361  C1* G   A 399     144.218  84.969  17.075  1.00 34.75      A16S
ATOM   8362  N9   G   A 399     143.984  84.252  18.319  1.00 45.92      A16S
ATOM   8363  C4   G   A 399     142.785  84.124  18.956  1.00 45.92      A16S
ATOM   8364  N3   G   A 399     141.613  84.609  18.522  1.00 45.92      A16S
ATOM   8365  C2   G   A 399     140.628  84.330  19.349  1.00 45.92      A16S
ATOM   8366  N2   G   A 399     139.383  84.728  19.053  1.00 45.92      A16S
ATOM   8367  N1   G   A 399     140.786  83.638  20.520  1.00 45.92      A16S
ATOM   8368  C6   G   A 399     141.991  83.131  20.988  1.00 45.92      A16S
ATOM   8369  O6   G   A 399     142.030  82.520  22.064  1.00 45.92      A16S
ATOM   8370  C5   G   A 399     143.052  83.416  20.099  1.00 45.92      A16S
ATOM   8371  N7   G   A 399     144.397  83.084  20.171  1.00 45.92      A16S
ATOM   8372  C8   G   A 399     144.909  83.600  19.092  1.00 45.92      A16S
ATOM   8373  C2* G   A 399     144.319  86.478  17.319  1.00 34.75      A16S
ATOM   8374  O2* G   A 399     143.697  87.192  16.261  1.00 34.75      A16S
ATOM   8375  C3* G   A 399     145.830  86.676  17.417  1.00 34.75      A16S
ATOM   8376  O3* G   A 399     146.235  87.979  17.014  1.00 34.75      A16S
ATOM   8377  P    C   A 400     146.214  89.186  18.065  1.00 44.28      A16S
ATOM   8378  O1P C   A 400     146.681  90.363  17.270  1.00 39.93      A16S
ATOM   8379  O2P C   A 400     146.923  88.818  19.316  1.00 39.93      A16S
ATOM   8380  O5* C   A 400     144.672  89.343  18.403  1.00 44.28      A16S
ATOM   8381  C5* C   A 400     143.802  89.907  17.437  1.00 44.28      A16S
ATOM   8382  C4* C   A 400     142.420  90.014  17.991  1.00 44.28      A16S
ATOM   8383  O4* C   A 400     141.894  88.684  18.180  1.00 44.28      A16S
ATOM   8384  C1* C   A 400     141.051  88.668  19.316  1.00 44.28      A16S
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ATOM   8385  N1  C   A 400     141.640  87.759  20.312  1.00 39.93      A16S
ATOM   8386  C6  C   A 400     142.986  87.521  20.333  1.00 39.93      A16S
ATOM   8387  C2  C   A 400     140.807  87.154  21.247  1.00 39.93      A16S
ATOM   8388  O2  C   A 400     139.587  87.374  21.195  1.00 39.93      A16S
ATOM   8389  N3  C   A 400     141.347  86.349  22.183  1.00 39.93      A16S
ATOM   8390  C4  C   A 400     142.660  86.143  22.206  1.00 39.93      A16S
ATOM   8391  N4  C   A 400     143.153  85.369  23.161  1.00 39.93      A16S
ATOM   8392  C5  C   A 400     143.529  86.729  21.254  1.00 39.93      A16S
ATOM   8393  C2* C   A 400     140.966  90.102  19.839  1.00 44.28      A16S
ATOM   8394  O2* C   A 400     139.867  90.741  19.224  1.00 44.28      A16S
ATOM   8395  C3* C   A 400     142.278  90.683  19.345  1.00 44.28      A16S
ATOM   8396  O3* C   A 400     142.196  92.089  19.226  1.00 44.28      A16S
ATOM   8397  P   C   A 401     142.555  93.010  20.487  1.00 38.29      A16S
ATOM   8398  O1P C   A 401     142.401  94.422  20.062  1.00 48.70      A16S
ATOM   8399  O2P C   A 401     143.846  92.553  21.052  1.00 48.70      A16S
ATOM   8400  O5* C   A 401     141.394  92.698  21.524  1.00 38.29      A16S
ATOM   8401  C5* C   A 401     140.061  93.195  21.300  1.00 38.29      A16S
ATOM   8402  C4* C   A 401     139.193  92.925  22.505  1.00 38.29      A16S
ATOM   8403  O4* C   A 401     138.926  91.500  22.602  1.00 38.29      A16S
ATOM   8404  C1* C   A 401     138.978  91.092  23.962  1.00 38.29      A16S
ATOM   8405  N1  C   A 401     140.171  90.231  24.147  1.00 48.70      A16S
ATOM   8406  C6  C   A 401     141.322  90.482  23.457  1.00 48.70      A16S
ATOM   8407  C2  C   A 401     140.122  89.172  25.063  1.00 48.70      A16S
ATOM   8408  O2  C   A 401     139.069  88.950  25.675  1.00 48.70      A16S
ATOM   8409  N3  C   A 401     141.225  88.425  25.264  1.00 48.70      A16S
ATOM   8410  C4  C   A 401     142.344  88.703  24.602  1.00 48.70      A16S
ATOM   8411  N4  C   A 401     143.416  87.964  24.849  1.00 48.70      A16S
ATOM   8412  C5  C   A 401     142.419  89.757  23.660  1.00 48.70      A16S
ATOM   8413  C2* C   A 401     139.107  92.365  24.801  1.00 38.29      A16S
ATOM   8414  O2* C   A 401     137.833  92.860  25.148  1.00 38.29      A16S
ATOM   8415  C3* C   A 401     139.832  93.280  23.834  1.00 38.29      A16S
ATOM   8416  O3* C   A 401     139.699  94.635  24.174  1.00 38.29      A16S
ATOM   8417  P   G   A 402     140.654  95.247  25.303  1.00 39.30      A16S
ATOM   8418  O1P G   A 402     140.366  96.708  25.387  1.00 65.50      A16S
ATOM   8419  O2P G   A 402     142.044  94.785  25.057  1.00 65.50      A16S
ATOM   8420  O5* G   A 402     140.135  94.549  26.637  1.00 39.30      A16S
ATOM   8421  C5* G   A 402     138.787  94.756  27.099  1.00 39.30      A16S
ATOM   8422  C4* G   A 402     138.490  93.856  28.267  1.00 39.30      A16S
ATOM   8423  O4* G   A 402     138.594  92.476  27.838  1.00 39.30      A16S
ATOM   8424  C1* G   A 402     139.136  91.684  28.889  1.00 39.30      A16S
ATOM   8425  N9  G   A 402     140.412  91.127  28.445  1.00 65.50      A16S
ATOM   8426  C4  G   A 402     141.150  90.170  29.089  1.00 65.50      A16S
ATOM   8427  N3  G   A 402     140.807  89.549  30.230  1.00 65.50      A16S
ATOM   8428  C2  G   A 402     141.729  88.692  30.620  1.00 65.50      A16S
ATOM   8429  N2  G   A 402     141.542  87.989  31.743  1.00 65.50      A16S
ATOM   8430  N1  G   A 402     142.900  88.464  29.941  1.00 65.50      A16S
ATOM   8431  C6  G   A 402     143.277  89.101  28.761  1.00 65.50      A16S
ATOM   8432  O6  G   A 402     144.370  88.837  28.228  1.00 65.50      A16S
ATOM   8433  C5  G   A 402     142.290  90.017  28.334  1.00 65.50      A16S
ATOM   8434  N7  G   A 402     142.262  90.844  27.228  1.00 65.50      A16S
ATOM   8435  C8  G   A 402     141.128  91.478  27.330  1.00 65.50      A16S
ATOM   8436  C2* G   A 402     139.336  92.603  30.094  1.00 39.30      A16S
ATOM   8437  O2* G   A 402     138.222  92.546  30.957  1.00 39.30      A16S
ATOM   8438  C3* G   A 402     139.472  93.951  29.416  1.00 39.30      A16S
ATOM   8439  O3* G   A 402     139.214  95.017  30.289  1.00 39.30      A16S
ATOM   8440  P   C   A 403     140.452  95.767  30.973  1.00 37.60      A16S
ATOM   8441  O1P C   A 403     139.888  96.909  31.733  1.00 65.39      A16S
ATOM   8442  O2P C   A 403     141.497  96.012  29.947  1.00 65.39      A16S
ATOM   8443  O5* C   A 403     141.020  94.685  31.993  1.00 37.60      A16S
ATOM   8444  C5* C   A 403     140.220  94.253  33.100  1.00 37.60      A16S
ATOM   8445  C4* C   A 403     140.975  93.278  33.964  1.00 37.60      A16S
ATOM   8446  O4* C   A 403     141.200  92.043  33.234  1.00 37.60      A16S
ATOM   8447  C1* C   A 403     142.340  91.387  33.766  1.00 37.60      A16S
ATOM   8448  N1  C   A 403     143.323  91.106  32.703  1.00 65.39      A16S
ATOM   8449  C6  C   A 403     143.603  92.021  31.729  1.00 65.39      A16S
ATOM   8450  C2  C   A 403     144.017  89.891  32.745  1.00 65.39      A16S
ATOM   8451  O2  C   A 403     143.692  89.044  33.592  1.00 65.39      A16S
ATOM   8452  N3  C   A 403     145.014  89.666  31.863  1.00 65.39      A16S
ATOM   8453  C4  C   A 403     145.309  90.585  30.950  1.00 65.39      A16S
ATOM   8454  N4  C   A 403     146.319  90.338  30.122  1.00 65.39      A16S
ATOM   8455  C5  C   A 403     144.583  91.805  30.846  1.00 65.39      A16S
ATOM   8456  C2* C   A 403     142.971  92.319  34.799  1.00 37.60      A16S
ATOM   8457  O2* C   A 403     142.659  91.881  36.105  1.00 37.60      A16S
ATOM   8458  C3* C   A 403     142.368  93.667  34.417  1.00 37.60      A16S
ATOM   8459  O3* C   A 403     142.444  94.595  35.483  1.00 37.60      A16S
ATOM   8460  P   U   A 404     143.870  95.276  35.821  1.00 52.87      A16S
ATOM   8461  O1P U   A 404     143.663  96.403  36.763  1.00 54.25      A16S
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ATOM   8462  O2P U   A 404     144.591  95.516  34.542  1.00 54.25      A16S
ATOM   8463  O5* U   A 404     144.662  94.151  36.623  1.00 52.87      A16S
ATOM   8464  C5* U   A 404     144.147  93.651  37.864  1.00 52.87      A16S
ATOM   8465  C4* U   A 404     145.071  92.612  38.436  1.00 52.87      A16S
ATOM   8466  O4* U   A 404     145.162  91.482  37.535  1.00 52.87      A16S
ATOM   8467  C1* U   A 404     146.465  90.925  37.599  1.00 52.87      A16S
ATOM   8468  N1  U   A 404     147.059  90.951  36.252  1.00 54.25      A16S
ATOM   8469  C6  U   A 404     146.379  91.463  35.177  1.00 54.25      A16S
ATOM   8470  C2  U   A 404     148.344  90.462  36.102  1.00 54.25      A16S
ATOM   8471  O2  U   A 404     148.966  89.944  37.005  1.00 54.25      A16S
ATOM   8472  N3  U   A 404     148.872  90.592  34.849  1.00 54.25      A16S
ATOM   8473  C4  U   A 404     148.263  91.124  33.742  1.00 54.25      A16S
ATOM   8474  O4  U   A 404     148.919  91.284  32.710  1.00 54.25      A16S
ATOM   8475  C5  U   A 404     146.920  91.557  33.958  1.00 54.25      A16S
ATOM   8476  C2* U   A 404     147.271  91.751  38.607  1.00 52.87      A16S
ATOM   8477  O2* U   A 404     147.275  91.127  39.868  1.00 52.87      A16S
ATOM   8478  C3* U   A 404     146.504  93.059  38.621  1.00 52.87      A16S
ATOM   8479  O3* U   A 404     146.689  93.767  39.826  1.00 52.87      A16S
ATOM   8480  P   U   A 405     147.783  94.933  39.881  1.00 40.34      A16S
ATOM   8481  O1P U   A 405     147.542  95.727  41.117  1.00 54.11      A16S
ATOM   8482  O2P U   A 405     147.776  95.614  38.557  1.00 54.11      A16S
ATOM   8483  O5* U   A 405     149.139  94.128  40.052  1.00 40.34      A16S
ATOM   8484  C5* U   A 405     149.298  93.253  41.160  1.00 40.34      A16S
ATOM   8485  C4* U   A 405     150.575  92.480  41.033  1.00 40.34      A16S
ATOM   8486  O4* U   A 405     150.469  91.585  39.908  1.00 40.34      A16S
ATOM   8487  C1* U   A 405     151.729  91.479  39.275  1.00 40.34      A16S
ATOM   8488  N1  U   A 405     151.580  91.863  37.858  1.00 54.11      A16S
ATOM   8489  C6  U   A 405     150.493  92.580  37.415  1.00 54.11      A16S
ATOM   8490  C2  U   A 405     152.561  91.456  36.974  1.00 54.11      A16S
ATOM   8491  O2  U   A 405     153.564  90.854  37.321  1.00 54.11      A16S
ATOM   8492  N3  U   A 405     152.331  91.783  35.666  1.00 54.11      A16S
ATOM   8493  C4  U   A 405     151.258  92.471  35.157  1.00 54.11      A16S
ATOM   8494  O4  U   A 405     151.164  92.630  33.935  1.00 54.11      A16S
ATOM   8495  C5  U   A 405     150.306  92.889  36.132  1.00 54.11      A16S
ATOM   8496  C2* U   A 405     152.737  92.303  40.083  1.00 40.34      A16S
ATOM   8497  O2* U   A 405     153.381  91.448  41.015  1.00 40.34      A16S
ATOM   8498  C3* U   A 405     151.832  93.300  40.789  1.00 40.34      A16S
ATOM   8499  O3* U   A 405     152.406  93.694  42.028  1.00 40.34      A16S
ATOM   8500  P   G   A 406     153.437  94.920  42.080  1.00 53.78      A16S
ATOM   8501  O1P G   A 406     154.174  94.962  40.791  1.00 61.46      A16S
ATOM   8502  O2P G   A 406     154.195  94.780  43.343  1.00 61.46      A16S
ATOM   8503  O5* G   A 406     152.490  96.201  42.212  1.00 53.78      A16S
ATOM   8504  C5* G   A 406     151.519  96.494  41.188  1.00 53.78      A16S
ATOM   8505  C4* G   A 406     150.215  96.989  41.782  1.00 53.78      A16S
ATOM   8506  O4* G   A 406     149.776  96.104  42.842  1.00 53.78      A16S
ATOM   8507  C1* G   A 406     149.019  96.837  43.789  1.00 53.78      A16S
ATOM   8508  N9  G   A 406     149.670  96.753  45.093  1.00 61.46      A16S
ATOM   8509  C4  G   A 406     149.150  97.189  46.291  1.00 61.46      A16S
ATOM   8510  N3  G   A 406     147.935  97.746  46.471  1.00 61.46      A16S
ATOM   8511  C2  G   A 406     147.728  98.076  47.728  1.00 61.46      A16S
ATOM   8512  N2  G   A 406     146.572  98.647  48.079  1.00 61.46      A16S
ATOM   8513  N1  G   A 406     148.643  97.876  48.730  1.00 61.46      A16S
ATOM   8514  C6  G   A 406     149.905  97.312  48.563  1.00 61.46      A16S
ATOM   8515  O6  G   A 406     150.669  97.200  49.528  1.00 61.46      A16S
ATOM   8516  C5  G   A 406     150.133  96.947  47.225  1.00 61.46      A16S
ATOM   8517  N7  G   A 406     151.239  96.354  46.635  1.00 61.46      A16S
ATOM   8518  C8  G   A 406     150.920  96.255  45.373  1.00 61.46      A16S
ATOM   8519  C2* G   A 406     148.948  98.280  43.300  1.00 53.78      A16S
ATOM   8520  O2* G   A 406     147.750  98.413  42.565  1.00 53.78      A16S
ATOM   8521  C3* G   A 406     150.181  98.370  42.411  1.00 53.78      A16S
ATOM   8522  O3* G   A 406     150.007  99.378  41.424  1.00 53.78      A16S
ATOM   8523  P   G   A 407     150.598 100.852  41.675  1.00 48.18      A16S
ATOM   8524  O1P G   A 407     150.452 101.592  40.393  1.00 63.92      A16S
ATOM   8525  O2P G   A 407     151.944 100.712  42.288  1.00 63.92      A16S
ATOM   8526  O5* G   A 407     149.612 101.500  42.747  1.00 48.18      A16S
ATOM   8527  C5* G   A 407     148.265 101.843  42.373  1.00 48.18      A16S
ATOM   8528  C4* G   A 407     147.480 102.347  43.562  1.00 48.18      A16S
ATOM   8529  O4* G   A 407     147.360 101.296  44.552  1.00 48.18      A16S
ATOM   8530  C1* G   A 407     147.316 101.864  45.841  1.00 48.18      A16S
ATOM   8531  N9  G   A 407     148.399 101.292  46.635  1.00 63.92      A16S
ATOM   8532  C4  G   A 407     148.602 101.463  47.988  1.00 63.92      A16S
ATOM   8533  N3  G   A 407     147.850 102.216  48.816  1.00 63.92      A16S
ATOM   8534  C2  G   A 407     148.291 102.173  50.058  1.00 63.92      A16S
ATOM   8535  N2  G   A 407     147.663 102.859  51.010  1.00 63.92      A16S
ATOM   8536  N1  G   A 407     149.379 101.452  50.462  1.00 63.92      A16S
ATOM   8537  C6  G   A 407     150.165 100.663  49.635  1.00 63.92      A16S
ATOM   8538  O6  G   A 407     151.117 100.029  50.112  1.00 63.92      A16S
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ATOM   8539  C5  G   A 407     149.712 100.707  48.288  1.00 63.92      A16S
ATOM   8540  N7  G   A 407     150.209 100.088  47.149  1.00 63.92      A16S
ATOM   8541  C8  G   A 407     149.403 100.466  46.195  1.00 63.92      A16S
ATOM   8542  C2* G   A 407     147.387 103.384  45.685  1.00 48.18      A16S
ATOM   8543  O2* G   A 407     146.068 103.892  45.704  1.00 48.18      A16S
ATOM   8544  C3* G   A 407     148.053 103.529  44.322  1.00 48.18      A16S
ATOM   8545  O3* G   A 407     147.745 104.770  43.689  1.00 48.18      A16S
ATOM   8546  P   A   A 408     148.916 105.854  43.457  1.00 43.10      A16S
ATOM   8547  O1P A   A 408     148.492 106.778  42.385  1.00 66.34      A16S
ATOM   8548  O2P A   A 408     150.223 105.151  43.345  1.00 66.34      A16S
ATOM   8549  O5* A   A 408     148.950 106.684  44.809  1.00 43.10      A16S
ATOM   8550  C5* A   A 408     147.828 107.480  45.223  1.00 43.10      A16S
ATOM   8551  C4* A   A 408     147.970 107.851  46.680  1.00 43.10      A16S
ATOM   8552  O4* A   A 408     147.733 106.688  47.524  1.00 43.10      A16S
ATOM   8553  C1* A   A 408     148.606 106.726  48.640  1.00 43.10      A16S
ATOM   8554  N9  A   A 408     149.476 105.552  48.583  1.00 66.34      A16S
ATOM   8555  C4  A   A 408     150.350 105.143  49.564  1.00 66.34      A16S
ATOM   8556  N3  A   A 408     150.559 105.714  50.763  1.00 66.34      A16S
ATOM   8557  C2  A   A 408     151.484 105.046  51.448  1.00 66.34      A16S
ATOM   8558  N1  A   A 408     152.180 103.963  51.097  1.00 66.34      A16S
ATOM   8559  C6  A   A 408     151.958 103.422  49.884  1.00 66.34      A16S
ATOM   8560  N6  A   A 408     152.671 102.355  49.528  1.00 66.34      A16S
ATOM   8561  C5  A   A 408     150.986 104.027  49.062  1.00 66.34      A16S
ATOM   8562  N7  A   A 408     150.512 103.725  47.793  1.00 66.34      A16S
ATOM   8563  C8  A   A 408     149.619 104.653  47.560  1.00 66.34      A16S
ATOM   8564  C2* A   A 408     149.411 108.030  48.556  1.00 43.10      A16S
ATOM   8565  O2* A   A 408     148.791 109.058  49.302  1.00 43.10      A16S
ATOM   8566  C3* A   A 408     149.356 108.333  47.070  1.00 43.10      A16S
ATOM   8567  O3* A   A 408     149.533 109.706  46.817  1.00 43.10      A16S
ATOM   8568  P   G   A 409     151.017 110.297  46.722  1.00 67.90      A16S
ATOM   8569  O1P G   A 409     150.851 111.735  46.458  1.00 70.93      A16S
ATOM   8570  O2P G   A 409     151.831 109.471  45.808  1.00 70.93      A16S
ATOM   8571  O5* G   A 409     151.609 110.109  48.189  1.00 67.90      A16S
ATOM   8572  C5* G   A 409     151.071 110.852  49.302  1.00 67.90      A16S
ATOM   8573  C4* G   A 409     151.729 110.432  50.597  1.00 67.90      A16S
ATOM   8574  O4* G   A 409     151.591 109.000  50.763  1.00 67.90      A16S
ATOM   8575  C1* G   A 409     152.708 108.494  51.470  1.00 67.90      A16S
ATOM   8576  N9  G   A 409     153.333 107.441  50.676  1.00 70.93      A16S
ATOM   8577  C4  G   A 409     154.240 106.520  51.127  1.00 70.93      A16S
ATOM   8578  N3  G   A 409     154.693 106.416  52.385  1.00 70.93      A16S
ATOM   8579  C2  G   A 409     155.556 105.429  52.515  1.00 70.93      A16S
ATOM   8580  N2  G   A 409     156.084 105.164  53.712  1.00 70.93      A16S
ATOM   8581  N1  G   A 409     155.960 104.622  51.487  1.00 70.93      A16S
ATOM   8582  C6  G   A 409     155.509 104.712  50.181  1.00 70.93      A16S
ATOM   8583  O6  G   A 409     155.944 103.932  49.324  1.00 70.93      A16S
ATOM   8584  C5  G   A 409     154.564 105.755  50.031  1.00 70.93      A16S
ATOM   8585  N7  G   A 409     153.861 106.174  48.914  1.00 70.93      A16S
ATOM   8586  C8  G   A 409     153.144 107.176  49.343  1.00 70.93      A16S
ATOM   8587  C2* G   A 409     153.643 109.666  51.778  1.00 67.90      A16S
ATOM   8588  O2* G   A 409     153.380 110.106  53.093  1.00 67.90      A16S
ATOM   8589  C3* G   A 409     153.220 110.699  50.739  1.00 67.90      A16S
ATOM   8590  O3* G   A 409     153.439 112.020  51.233  1.00 67.90      A16S
ATOM   8591  P   G   A 410     154.735 112.859  50.763  1.00 57.77      A16S
ATOM   8592  O1P G   A 410     154.815 114.050  51.659  1.00 87.26      A16S
ATOM   8593  O2P G   A 410     154.640 113.061  49.298  1.00 87.26      A16S
ATOM   8594  O5* G   A 410     155.975 111.902  51.081  1.00 57.77      A16S
ATOM   8595  C5* G   A 410     156.320 111.591  52.439  1.00 57.77      A16S
ATOM   8596  C4* G   A 410     157.260 110.414  52.497  1.00 57.77      A16S
ATOM   8597  O4* G   A 410     156.618 109.227  51.971  1.00 57.77      A16S
ATOM   8598  C1* G   A 410     157.593 108.384  51.375  1.00 57.77      A16S
ATOM   8599  N9  G   A 410     157.238 108.154  49.977  1.00 87.26      A16S
ATOM   8600  C4  G   A 410     157.619 107.075  49.222  1.00 87.26      A16S
ATOM   8601  N3  G   A 410     158.343 106.028  49.657  1.00 87.26      A16S
ATOM   8602  C2  G   A 410     158.564 105.152  48.699  1.00 87.26      A16S
ATOM   8603  N2  G   A 410     159.259 104.039  48.965  1.00 87.26      A16S
ATOM   8604  N1  G   A 410     158.117 105.296  47.412  1.00 87.26      A16S
ATOM   8605  C6  G   A 410     157.371 106.364  46.937  1.00 87.26      A16S
ATOM   8606  O6  G   A 410     157.022 106.392  45.750  1.00 87.26      A16S
ATOM   8607  C5  G   A 410     157.116 107.312  47.960  1.00 87.26      A16S
ATOM   8608  N7  G   A 410     156.410 108.507  47.928  1.00 87.26      A16S
ATOM   8609  C8  G   A 410     156.503 108.969  49.146  1.00 87.26      A16S
ATOM   8610  C2* G   A 410     158.948 109.084  51.487  1.00 57.77      A16S
ATOM   8611  O2* G   A 410     159.674 108.546  52.565  1.00 57.77      A16S
ATOM   8612  C3* G   A 410     158.533 110.536  51.687  1.00 57.77      A16S
ATOM   8613  O3* G   A 410     159.512 111.278  52.378  1.00 57.77      A16S
ATOM   8614  P   A   A 411     160.058 112.636  51.739  1.00 77.87      A16S
ATOM   8615  O1P A   A 411     159.655 113.745  52.632  1.00 69.44      A16S
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ATOM   8616  O2P A   A 411     159.642 112.672  50.322  1.00 69.44      A16S
ATOM   8617  O5* A   A 411     161.637 112.453  51.813  1.00 77.87      A16S
ATOM   8618  C5* A   A 411     162.346 112.611  53.059  1.00 77.87      A16S
ATOM   8619  C4* A   A 411     163.788 112.968  52.788  1.00 77.87      A16S
ATOM   8620  O4* A   A 411     164.433 111.822  52.183  1.00 77.87      A16S
ATOM   8621  C1* A   A 411     165.260 112.245  51.110  1.00 77.87      A16S
ATOM   8622  N9  A   A 411     164.687 111.680  49.882  1.00 69.44      A16S
ATOM   8623  C4  A   A 411     164.821 110.378  49.460  1.00 69.44      A16S
ATOM   8624  N3  A   A 411     165.505 109.391  50.063  1.00 69.44      A16S
ATOM   8625  C2  A   A 411     165.416 108.265  49.366  1.00 69.44      A16S
ATOM   8626  N1  A   A 411     164.767 108.025  48.226  1.00 69.44      A16S
ATOM   8627  C6  A   A 411     164.078 109.032  47.651  1.00 69.44      A16S
ATOM   8628  N6  A   A 411     163.408 108.785  46.525  1.00 69.44      A16S
ATOM   8629  C5  A   A 411     164.100 110.286  48.286  1.00 69.44      A16S
ATOM   8630  N7  A   A 411     163.520 111.506  47.966  1.00 69.44      A16S
ATOM   8631  C8  A   A 411     163.900 112.299  48.935  1.00 69.44      A16S
ATOM   8632  C2* A   A 411     165.307 113.778  51.136  1.00 77.87      A16S
ATOM   8633  O2* A   A 411     166.413 114.235  51.891  1.00 77.87      A16S
ATOM   8634  C3* A   A 411     163.975 114.109  51.793  1.00 77.87      A16S
ATOM   8635  O3* A   A 411     163.991 115.377  52.431  1.00 77.87      A16S
ATOM   8636  P   A   A 412     163.176 116.604  51.784  1.00127.91      A16S
ATOM   8637  O1P A   A 412     163.022 117.641  52.837  1.00199.85      A16S
ATOM   8638  O2P A   A 412     161.969 116.067  51.099  1.00199.85      A16S
ATOM   8639  O5* A   A 412     164.162 117.177  50.675  1.00127.91      A16S
ATOM   8640  C5* A   A 412     165.551 117.397  50.964  1.00127.91      A16S
ATOM   8641  C4* A   A 412     166.388 116.991  49.781  1.00127.91      A16S
ATOM   8642  O4* A   A 412     166.055 117.805  48.635  1.00127.91      A16S
ATOM   8643  C1* A   A 412     167.151 117.804  47.750  1.00127.91      A16S
ATOM   8644  N9  A   A 412     167.304 119.129  47.162  1.00199.85      A16S
ATOM   8645  C4  A   A 412     167.178 119.402  45.824  1.00199.85      A16S
ATOM   8646  N3  A   A 412     166.889 118.532  44.842  1.00199.85      A16S
ATOM   8647  C2  A   A 412     166.855 119.148  43.666  1.00199.85      A16S
ATOM   8648  N1  A   A 412     167.062 120.439  43.381  1.00199.85      A16S
ATOM   8649  C6  A   A 412     167.352 121.288  44.393  1.00199.85      A16S
ATOM   8650  N6  A   A 412     167.562 122.577  44.108  1.00199.85      A16S
ATOM   8651  C5  A   A 412     167.416 120.756  45.692  1.00199.85      A16S
ATOM   8652  N7  A   A 412     167.681 121.330  46.928  1.00199.85      A16S
ATOM   8653  C8  A   A 412     167.600 120.326  47.765  1.00199.85      A16S
ATOM   8654  C2* A   A 412     168.381 117.274  48.491  1.00127.91      A16S
ATOM   8655  O2* A   A 412     168.755 116.029  47.943  1.00127.91      A16S
ATOM   8656  C3* A   A 412     167.885 117.172  49.934  1.00127.91      A16S
ATOM   8657  O3* A   A 412     168.397 116.006  50.554  1.00127.91      A16S
ATOM   8658  P   G   A 413     169.946 115.918  50.951  1.00 92.09      A16S
ATOM   8659  O1P G   A 413     170.023 116.323  52.377  1.00 90.82      A16S
ATOM   8660  O2P G   A 413     170.788 116.622  49.934  1.00 90.82      A16S
ATOM   8661  O5* G   A 413     170.244 114.356  50.883  1.00 92.09      A16S
ATOM   8662  C5* G   A 413     170.412 113.687  49.619  1.00 92.09      A16S
ATOM   8663  C4* G   A 413     169.331 112.648  49.420  1.00 92.09      A16S
ATOM   8664  O4* G   A 413     168.098 113.269  48.997  1.00 92.09      A16S
ATOM   8665  C1* G   A 413     167.353 112.341  48.241  1.00 92.09      A16S
ATOM   8666  N9  G   A 413     166.642 113.034  47.166  1.00 90.82      A16S
ATOM   8667  C4  G   A 413     165.969 112.466  46.107  1.00 90.82      A16S
ATOM   8668  N3  G   A 413     165.910 111.155  45.816  1.00 90.82      A16S
ATOM   8669  C2  G   A 413     165.141 110.918  44.770  1.00 90.82      A16S
ATOM   8670  N2  G   A 413     164.966 109.672  44.341  1.00 90.82      A16S
ATOM   8671  N1  G   A 413     164.480 111.885  44.064  1.00 90.82      A16S
ATOM   8672  C6  G   A 413     164.523 113.241  44.338  1.00 90.82      A16S
ATOM   8673  O6  G   A 413     163.870 114.029  43.638  1.00 90.82      A16S
ATOM   8674  C5  G   A 413     165.356 113.516  45.457  1.00 90.82      A16S
ATOM   8675  N7  G   A 413     165.676 114.721  46.059  1.00 90.82      A16S
ATOM   8676  C8  G   A 413     166.449 114.388  47.056  1.00 90.82      A16S
ATOM   8677  C2* G   A 413     168.246 111.141  47.911  1.00 92.09      A16S
ATOM   8678  O2* G   A 413     167.818 110.047  48.691  1.00 92.09      A16S
ATOM   8679  C3* G   A 413     169.630 111.621  48.343  1.00 92.09      A16S
ATOM   8680  O3* G   A 413     170.327 110.592  49.031  1.00 92.09      A16S
ATOM   8681  P   A   A 414     171.015 109.387  48.232  1.00 67.07      A16S
ATOM   8682  O1P A   A 414     172.417 109.789  47.942  1.00 87.25      A16S
ATOM   8683  O2P A   A 414     170.134 108.970  47.126  1.00 87.25      A16S
ATOM   8684  O5* A   A 414     171.040 108.213  49.310  1.00 67.07      A16S
ATOM   8685  C5* A   A 414     171.251 108.508  50.706  1.00 67.07      A16S
ATOM   8686  C4* A   A 414     171.325 107.237  51.519  1.00 67.07      A16S
ATOM   8687  O4* A   A 414     170.019 106.623  51.627  1.00 67.07      A16S
ATOM   8688  C1* A   A 414     170.165 105.215  51.708  1.00 67.07      A16S
ATOM   8689  N9  A   A 414     169.295 104.593  50.703  1.00 87.25      A16S
ATOM   8690  C4  A   A 414     169.309 103.276  50.314  1.00 87.25      A16S
ATOM   8691  N3  A   A 414     170.114 102.302  50.766  1.00 87.25      A16S
ATOM   8692  C2  A   A 414     169.844 101.151  50.157  1.00 87.25      A16S
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ATOM   8693  N1  A   A 414     168.929 100.881  49.219  1.00 87.25      A16S
ATOM   8694  C6  A   A 414     168.130 101.881  48.791  1.00 87.25      A16S
ATOM   8695  N6  A   A 414     167.205 101.606  47.867  1.00 87.25      A16S
ATOM   8696  C5  A   A 414     168.319 103.155  49.356  1.00 87.25      A16S
ATOM   8697  N7  A   A 414     167.689 104.372  49.144  1.00 87.25      A16S
ATOM   8698  C8  A   A 414     168.302 105.189  49.963  1.00 87.25      A16S
ATOM   8699  C2* A   A 414     171.658 104.878  51.594  1.00 67.07      A16S
ATOM   8700  O2* A   A 414     172.171 104.612  52.881  1.00 67.07      A16S
ATOM   8701  C3* A   A 414     172.236 106.151  50.980  1.00 67.07      A16S
ATOM   8702  O3* A   A 414     173.569 106.391  51.411  1.00 67.07      A16S
ATOM   8703  P   A   A 415     174.786 106.177  50.393  1.00 70.14      A16S
ATOM   8704  O1P A   A 415     176.019 106.705  51.021  1.00 85.66      A16S
ATOM   8705  O2P A   A 415     174.365 106.688  49.067  1.00 85.66      A16S
ATOM   8706  O5* A   A 415     174.921 104.597  50.306  1.00 70.14      A16S
ATOM   8707  C5* A   A 415     175.134 103.819  51.490  1.00 70.14      A16S
ATOM   8708  C4* A   A 415     174.810 102.369  51.226  1.00 70.14      A16S
ATOM   8709  O4* A   A 415     173.385 102.218  50.991  1.00 70.14      A16S
ATOM   8710  C1* A   A 415     173.168 101.215  50.010  1.00 70.14      A16S
ATOM   8711  N9  A   A 415     172.472 101.826  48.873  1.00 85.66      A16S
ATOM   8712  C4  A   A 415     171.918 101.152  47.813  1.00 85.66      A16S
ATOM   8713  N3  A   A 415     171.889  99.825  47.619  1.00 85.66      A16S
ATOM   8714  C2  A   A 415     171.282  99.533  46.476  1.00 85.66      A16S
ATOM   8715  N1  A   A 415     170.745 100.354  45.573  1.00 85.66      A16S
ATOM   8716  C6  A   A 415     170.795 101.683  45.800  1.00 85.66      A16S
ATOM   8717  N6  A   A 415     170.275 102.503  44.894  1.00 85.66      A16S
ATOM   8718  C5  A   A 415     171.403 102.121  46.979  1.00 85.66      A16S
ATOM   8719  N7  A   A 415     171.614 103.386  47.503  1.00 85.66      A16S
ATOM   8720  C8  A   A 415     172.248 103.158  48.625  1.00 85.66      A16S
ATOM   8721  C2* A   A 415     174.532 100.636  49.623  1.00 70.14      A16S
ATOM   8722  O2* A   A 415     174.804  99.471  50.372  1.00 70.14      A16S
ATOM   8723  C3* A   A 415     175.464 101.779  49.990  1.00 70.14      A16S
ATOM   8724  O3* A   A 415     176.791 101.352  50.227  1.00 70.14      A16S
ATOM   8725  P   G   A 416     177.907 101.669  49.127  1.00 80.25      A16S
ATOM   8726  O1P G   A 416     179.239 101.275  49.641  1.00 75.84      A16S
ATOM   8727  O2P G   A 416     177.680 103.063  48.674  1.00 75.84      A16S
ATOM   8728  O5* G   A 416     177.530 100.682  47.937  1.00 80.25      A16S
ATOM   8729  C5* G   A 416     177.610  99.256  48.122  1.00 80.25      A16S
ATOM   8730  C4* G   A 416     176.964  98.535  46.963  1.00 80.25      A16S
ATOM   8731  O4* G   A 416     175.556  98.868  46.927  1.00 80.25      A16S
ATOM   8732  C1* G   A 416     175.123  98.961  45.585  1.00 80.25      A16S
ATOM   8733  N9  G   A 416     174.661 100.326  45.364  1.00 75.84      A16S
ATOM   8734  C4  G   A 416     173.931 100.786  44.293  1.00 75.84      A16S
ATOM   8735  N3  G   A 416     173.514 100.050  43.241  1.00 75.84      A16S
ATOM   8736  C2  G   A 416     172.850 100.781  42.360  1.00 75.84      A16S
ATOM   8737  N2  G   A 416     172.374 100.214  41.239  1.00 75.84      A16S
ATOM   8738  N1  G   A 416     172.604 102.125  42.507  1.00 75.84      A16S
ATOM   8739  C6  G   A 416     173.019 102.902  43.582  1.00 75.84      A16S
ATOM   8740  O6  G   A 416     172.748 104.109  43.614  1.00 75.84      A16S
ATOM   8741  C5  G   A 416     173.742 102.131  44.532  1.00 75.84      A16S
ATOM   8742  N7  G   A 416     174.340 102.508  45.727  1.00 75.84      A16S
ATOM   8743  C8  G   A 416     174.870 101.409  46.184  1.00 75.84      A16S
ATOM   8744  C2* G   A 416     176.300  98.567  44.688  1.00 80.25      A16S
ATOM   8745  O2* G   A 416     176.224  97.185  44.400  1.00 80.25      A16S
ATOM   8746  C3* G   A 416     177.489  98.888  45.581  1.00 80.25      A16S
ATOM   8747  O3* G   A 416     178.630  98.109  45.240  1.00 80.25      A16S
ATOM   8748  P   C   A 417     179.730  98.711  44.231  1.00 83.36      A16S
ATOM   8749  O1P C   A 417     180.801  97.694  44.059  1.00 79.86      A16S
ATOM   8750  O2P C   A 417     180.086 100.088  44.659  1.00 79.86      A16S
ATOM   8751  O5* C   A 417     178.946  98.851  42.853  1.00 83.36      A16S
ATOM   8752  C5* C   A 417     178.584  97.691  42.080  1.00 83.36      A16S
ATOM   8753  C4* C   A 417     177.838  98.106  40.836  1.00 83.36      A16S
ATOM   8754  O4* C   A 417     176.547  98.661  41.196  1.00 83.36      A16S
ATOM   8755  C1* C   A 417     176.240  99.744  40.334  1.00 83.36      A16S
ATOM   8756  N1  C   A 417     176.135 100.978  41.139  1.00 79.86      A16S
ATOM   8757  C6  C   A 417     176.702 101.061  42.381  1.00 79.86      A16S
ATOM   8758  C2  C   A 417     175.446 102.079  40.604  1.00 79.86      A16S
ATOM   8759  O2  C   A 417     174.950 101.988  39.472  1.00 79.86      A16S
ATOM   8760  N3  C   A 417     175.343 103.213  41.334  1.00 79.86      A16S
ATOM   8761  C4  C   A 417     175.897 103.279  42.545  1.00 79.86      A16S
ATOM   8762  N4  C   A 417     175.756 104.413  43.235  1.00 79.86      A16S
ATOM   8763  C5  C   A 417     176.613 102.182  43.108  1.00 79.86      A16S
ATOM   8764  C2* C   A 417     177.357  99.840  39.296  1.00 83.36      A16S
ATOM   8765  O2* C   A 417     177.009  99.099  38.145  1.00 83.36      A16S
ATOM   8766  C3* C   A 417     178.516  99.203  40.039  1.00 83.36      A16S
ATOM   8767  O3* C   A 417     179.495  98.694  39.159  1.00 83.36      A16S
ATOM   8768  P   C   A 418     180.652  99.667  38.631  1.00 56.26      A16S
ATOM   8769  O1P C   A 418     181.254 100.353  39.802  1.00 85.40      A16S
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ATOM   8770  O2P C   A 418     181.518  98.866  37.726  1.00 85.40      A16S
ATOM   8771  O5* C   A 418     179.874 100.780  37.794  1.00 56.26      A16S
ATOM   8772  C5* C   A 418     179.223 100.441  36.560  1.00 56.26      A16S
ATOM   8773  C4* C   A 418     178.632 101.667  35.902  1.00 56.26      A16S
ATOM   8774  O4* C   A 418     177.493 102.142  36.653  1.00 56.26      A16S
ATOM   8775  C1* C   A 418     177.370 103.538  36.481  1.00 56.26      A16S
ATOM   8776  N1   C   A 418     177.372 104.187  37.800  1.00 85.40      A16S
ATOM   8777  C6   C   A 418     178.045 103.639  38.854  1.00 85.40      A16S
ATOM   8778  C2   C   A 418     176.674 105.391  37.961  1.00 85.40      A16S
ATOM   8779  O2   C   A 418     176.066 105.872  36.992  1.00 85.40      A16S
ATOM   8780  N3   C   A 418     176.680 106.001  39.163  1.00 85.40      A16S
ATOM   8781  C4   C   A 418     177.344 105.458  40.181  1.00 85.40      A16S
ATOM   8782  N4   C   A 418     177.324 106.096  41.348  1.00 85.40      A16S
ATOM   8783  C5   C   A 418     178.059 104.236  40.049  1.00 85.40      A16S
ATOM   8784  C2* C   A 418     178.512 104.006  35.579  1.00 56.26      A16S
ATOM   8785  O2* C   A 418     178.022 104.091  34.257  1.00 56.26      A16S
ATOM   8786  C3* C   A 418     179.526 102.881  35.738  1.00 56.26      A16S
ATOM   8787  O3* C   A 418     180.342 102.765  34.577  1.00 56.26      A16S
ATOM   8788  P    C   A 419     181.802 103.450  34.549  1.00 56.36      A16S
ATOM   8789  O1P C   A 419     182.458 103.022  33.281  1.00 82.57      A16S
ATOM   8790  O2P C   A 419     182.468 103.177  35.845  1.00 82.57      A16S
ATOM   8791  O5* C   A 419     181.511 105.011  34.448  1.00 56.36      A16S
ATOM   8792  C5* C   A 419     180.914 105.544  33.269  1.00 56.36      A16S
ATOM   8793  C4* C   A 419     180.400 106.938  33.511  1.00 56.36      A16S
ATOM   8794  O4* C   A 419     179.418 106.941  34.577  1.00 56.36      A16S
ATOM   8795  C1* C   A 419     179.457 108.190  35.251  1.00 56.36      A16S
ATOM   8796  N1   C   A 419     179.673 107.958  36.697  1.00 82.57      A16S
ATOM   8797  C6   C   A 419     179.933 106.703  37.175  1.00 82.57      A16S
ATOM   8798  C2   C   A 419     179.599 109.048  37.581  1.00 82.57      A16S
ATOM   8799  O2   C   A 419     179.374 110.177  37.131  1.00 82.57      A16S
ATOM   8800  N3   C   A 419     179.775 108.838  38.901  1.00 82.57      A16S
ATOM   8801  C4   C   A 419     180.013 107.606  39.354  1.00 82.57      A16S
ATOM   8802  N4   C   A 419     180.161 107.440  40.671  1.00 82.57      A16S
ATOM   8803  C5   C   A 419     180.106 106.486  38.482  1.00 82.57      A16S
ATOM   8804  C2* C   A 419     180.545 109.042  34.589  1.00 56.36      A16S
ATOM   8805  O2* C   A 419     179.935 109.906  33.648  1.00 56.36      A16S
ATOM   8806  C3* C   A 419     181.417 107.978  33.930  1.00 56.36      A16S
ATOM   8807  O3* C   A 419     182.098 108.487  32.803  1.00 56.36      A16S
ATOM   8808  P    U   A 420     183.636 108.903  32.934  1.00 79.41      A16S
ATOM   8809  O1P U   A 420     184.066 109.274  31.564  1.00 57.00      A16S
ATOM   8810  O2P U   A 420     184.357 107.824  33.667  1.00 57.00      A16S
ATOM   8811  O5* U   A 420     183.598 110.226  33.826  1.00 79.41      A16S
ATOM   8812  C5* U   A 420     183.182 111.488  33.257  1.00 79.41      A16S
ATOM   8813  C4* U   A 420     183.223 112.585  34.298  1.00 79.41      A16S
ATOM   8814  O4* U   A 420     182.281 112.271  35.350  1.00 79.41      A16S
ATOM   8815  C1* U   A 420     182.798 112.697  36.595  1.00 79.41      A16S
ATOM   8816  N1   U   A 420     182.942 111.521  37.464  1.00 57.00      A16S
ATOM   8817  C6   U   A 420     183.033 110.248  36.946  1.00 57.00      A16S
ATOM   8818  C2   U   A 420     182.986 111.734  38.829  1.00 57.00      A16S
ATOM   8819  O2   U   A 420     182.894 112.844  39.330  1.00 57.00      A16S
ATOM   8820  N3   U   A 420     183.138 110.597  39.589  1.00 57.00      A16S
ATOM   8821  C4   U   A 420     183.240 109.301  39.132  1.00 57.00      A16S
ATOM   8822  O4   U   A 420     183.421 108.391  39.936  1.00 57.00      A16S
ATOM   8823  C5   U   A 420     183.171 109.161  37.714  1.00 57.00      A16S
ATOM   8824  C2* U   A 420     184.128 113.406  36.341  1.00 79.41      A16S
ATOM   8825  O2* U   A 420     183.912 114.803  36.265  1.00 79.41      A16S
ATOM   8826  C3* U   A 420     184.554 112.803  35.008  1.00 79.41      A16S
ATOM   8827  O3* U   A 420     185.402 113.705  34.293  1.00 79.41      A16S
ATOM   8828  P    U   A 421     186.991 113.465  34.272  1.00 83.09      A16S
ATOM   8829  O1P U   A 421     187.380 113.510  32.846  1.00 72.96      A16S
ATOM   8830  O2P U   A 421     187.319 112.265  35.082  1.00 72.96      A16S
ATOM   8831  O5* U   A 421     187.621 114.755  34.972  1.00 83.09      A16S
ATOM   8832  C5* U   A 421     186.958 115.434  36.059  1.00 83.09      A16S
ATOM   8833  C4* U   A 421     187.012 116.929  35.840  1.00 83.09      A16S
ATOM   8834  O4* U   A 421     186.588 117.171  34.480  1.00 83.09      A16S
ATOM   8835  C1* U   A 421     185.857 118.374  34.420  1.00 83.09      A16S
ATOM   8836  N1   U   A 421     184.593 118.138  33.706  1.00 72.96      A16S
ATOM   8837  C6   U   A 421     184.057 116.879  33.620  1.00 72.96      A16S
ATOM   8838  C2   U   A 421     183.968 119.225  33.090  1.00 72.96      A16S
ATOM   8839  O2   U   A 421     184.369 120.371  33.175  1.00 72.96      A16S
ATOM   8840  N3   U   A 421     182.847 118.915  32.374  1.00 72.96      A16S
ATOM   8841  C4   U   A 421     182.283 117.669  32.219  1.00 72.96      A16S
ATOM   8842  O4   U   A 421     181.323 117.533  31.457  1.00 72.96      A16S
ATOM   8843  C5   U   A 421     182.956 116.614  32.918  1.00 72.96      A16S
ATOM   8844  C2* U   A 421     185.744 118.956  35.828  1.00 83.09      A16S
ATOM   8845  O2* U   A 421     186.679 120.012  35.963  1.00 83.09      A16S
ATOM   8846  C3* U   A 421     186.078 117.761  36.722  1.00 83.09      A16S
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ATOM   8847  O3* U   A 421     186.602 118.355  37.950  1.00 83.09      A16S
ATOM   8848  P    C   A 422     188.042 117.943  38.574  1.00 94.29      A16S
ATOM   8849  O1P C   A 422     188.687 119.235  38.915  1.00126.29      A16S
ATOM   8850  O2P C   A 422     188.790 116.950  37.762  1.00126.29      A16S
ATOM   8851  O5* C   A 422     187.666 117.248  39.955  1.00 94.29      A16S
ATOM   8852  C5* C   A 422     186.600 117.767  40.765  1.00 94.29      A16S
ATOM   8853  C4* C   A 422     186.233 116.775  41.839  1.00 94.29      A16S
ATOM   8854  O4* C   A 422     185.707 115.568  41.225  1.00 94.29      A16S
ATOM   8855  C1* C   A 422     186.418 114.446  41.705  1.00 94.29      A16S
ATOM   8856  N1   C   A 422     186.451 113.414  40.652  1.00126.29      A16S
ATOM   8857  C6   C   A 422     186.830 113.722  39.375  1.00126.29      A16S
ATOM   8858  C2   C   A 422     186.062 112.098  40.978  1.00126.29      A16S
ATOM   8859  O2   C   A 422     185.748 111.826  42.150  1.00126.29      A16S
ATOM   8860  N3   C   A 422     186.040 111.159  40.006  1.00126.29      A16S
ATOM   8861  C4   C   A 422     186.390 111.481  38.757  1.00126.29      A16S
ATOM   8862  N4   C   A 422     186.327 110.526  37.824  1.00126.29      A16S
ATOM   8863  C5   C   A 422     186.813 112.797  38.406  1.00126.29      A16S
ATOM   8864  C2* C   A 422     187.770 114.975  42.183  1.00 94.29      A16S
ATOM   8865  O2* C   A 422     188.333 114.106  43.151  1.00 94.29      A16S
ATOM   8866  C3* C   A 422     187.371 116.336  42.756  1.00 94.29      A16S
ATOM   8867  O3* C   A 422     186.848 116.144  44.071  1.00 94.29      A16S
ATOM   8868  P    G   A 423     187.185 117.195  45.242  1.00 96.72      A16S
ATOM   8869  O1P G   A 423     188.410 117.959  44.871  1.00 84.09      A16S
ATOM   8870  O2P G   A 423     187.152 116.426  46.518  1.00 84.09      A16S
ATOM   8871  O5* G   A 423     185.952 118.210  45.225  1.00 96.72      A16S
ATOM   8872  C5* G   A 423     184.582 117.738  45.326  1.00 96.72      A16S
ATOM   8873  C4* G   A 423     183.619 118.850  44.960  1.00 96.72      A16S
ATOM   8874  O4* G   A 423     184.020 119.416  43.687  1.00 96.72      A16S
ATOM   8875  C1* G   A 423     182.876 119.806  42.957  1.00 96.72      A16S
ATOM   8876  N9   G   A 423     182.916 119.139  41.657  1.00 84.09      A16S
ATOM   8877  C4   G   A 423     182.931 117.783  41.412  1.00 84.09      A16S
ATOM   8878  N3   G   A 423     182.921 116.806  42.342  1.00 84.09      A16S
ATOM   8879  C2   G   A 423     182.929 115.606  41.794  1.00 84.09      A16S
ATOM   8880  N2   G   A 423     182.930 114.516  42.573  1.00 84.09      A16S
ATOM   8881  N1   G   A 423     182.940 115.385  40.442  1.00 84.09      A16S
ATOM   8882  C6   G   A 423     182.952 116.375  39.470  1.00 84.09      A16S
ATOM   8883  O6   G   A 423     182.958 116.067  38.278  1.00 84.09      A16S
ATOM   8884  C5   G   A 423     182.952 117.661  40.040  1.00 84.09      A16S
ATOM   8885  N7   G   A 423     182.966 118.907  39.434  1.00 84.09      A16S
ATOM   8886  C8   G   A 423     182.943 119.751  40.429  1.00 84.09      A16S
ATOM   8887  C2* G   A 423     181.637 119.510  43.810  1.00 96.72      A16S
ATOM   8888  O2* G   A 423     181.213 120.693  44.455  1.00 96.72      A16S
ATOM   8889  C3* G   A 423     182.158 118.456  44.784  1.00 96.72      A16S
ATOM   8890  O3* G   A 423     181.452 118.525  46.022  1.00 96.72      A16S
ATOM   8891  P    G   A 424     180.497 117.311  46.481  1.00112.31      A16S
ATOM   8892  O1P G   A 424     179.665 117.846  47.586  1.00 73.91      A16S
ATOM   8893  O2P G   A 424     181.340 116.109  46.720  1.00 73.91      A16S
ATOM   8894  O5* G   A 424     179.543 117.032  45.228  1.00112.31      A16S
ATOM   8895  C5* G   A 424     178.673 118.068  44.702  1.00112.31      A16S
ATOM   8896  C4* G   A 424     178.364 117.825  43.231  1.00112.31      A16S
ATOM   8897  O4* G   A 424     179.558 117.291  42.598  1.00112.31      A16S
ATOM   8898  C1* G   A 424     179.199 116.385  41.572  1.00112.31      A16S
ATOM   8899  N9   G   A 424     179.628 115.048  41.965  1.00 73.91      A16S
ATOM   8900  C4   G   A 424     179.744 113.958  41.138  1.00 73.91      A16S
ATOM   8901  N3   G   A 424     179.533 113.950  39.805  1.00 73.91      A16S
ATOM   8902  C2   G   A 424     179.675 112.744  39.289  1.00 73.91      A16S
ATOM   8903  N2   G   A 424     179.502 112.562  37.979  1.00 73.91      A16S
ATOM   8904  N1   G   A 424     179.996 111.632  40.021  1.00 73.91      A16S
ATOM   8905  C6   G   A 424     180.225 111.617  41.394  1.00 73.91      A16S
ATOM   8906  O6   G   A 424     180.514 110.554  41.962  1.00 73.91      A16S
ATOM   8907  C5   G   A 424     180.078 112.908  41.961  1.00 73.91      A16S
ATOM   8908  N7   G   A 424     180.209 113.334  43.275  1.00 73.91      A16S
ATOM   8909  C8   G   A 424     179.943 114.610  43.228  1.00 73.91      A16S
ATOM   8910  C2* G   A 424     177.679 116.412  41.457  1.00112.31      A16S
ATOM   8911  O2* G   A 424     177.304 117.364  40.483  1.00112.31      A16S
ATOM   8912  C3* G   A 424     177.274 116.820  42.865  1.00112.31      A16S
ATOM   8913  O3* G   A 424     175.955 117.374  42.868  1.00112.31      A16S
ATOM   8914  P    G   A 425     174.671 116.389  42.838  1.00 89.05      A16S
ATOM   8915  O1P G   A 425     173.442 117.223  42.947  1.00 66.17      A16S
ATOM   8916  O2P G   A 425     174.898 115.287  43.807  1.00 66.17      A16S
ATOM   8917  O5* G   A 425     174.702 115.745  41.380  1.00 89.05      A16S
ATOM   8918  C5* G   A 425     174.546 116.562  40.205  1.00 89.05      A16S
ATOM   8919  C4* G   A 425     174.529 115.701  38.963  1.00 89.05      A16S
ATOM   8920  O4* G   A 425     175.826 115.080  38.761  1.00 89.05      A16S
ATOM   8921  C1* G   A 425     175.655 113.786  38.206  1.00 89.05      A16S
ATOM   8922  N9   G   A 425     176.157 112.807  39.164  1.00 66.17      A16S
ATOM   8923  C4   G   A 425     176.250 111.445  38.978  1.00 66.17      A16S
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ATOM	8924	N3	G	A	425	175.908	110.765	37.860	1.00	66.17	A16S
ATOM	8925	C2	G	A	425	176.096	109.460	37.997	1.00	66.17	A16S
ATOM	8926	N2	G	A	425	175.809	108.630	36.988	1.00	66.17	A16S
ATOM	8927	N1	G	A	425	176.578	108.876	39.137	1.00	66.17	A16S
ATOM	8928	C6	G	A	425	176.929	109.558	40.298	1.00	66.17	A16S
ATOM	8929	O6	G	A	425	177.339	108.931	41.281	1.00	66.17	A16S
ATOM	8930	C5	G	A	425	176.741	110.950	40.164	1.00	66.17	A16S
ATOM	8931	N7	G	A	425	176.966	111.974	41.070	1.00	66.17	A16S
ATOM	8932	C8	G	A	425	176.607	113.053	40.434	1.00	66.17	A16S
ATOM	8933	C2*	G	A	425	174.161	113.585	37.966	1.00	89.05	A16S
ATOM	8934	O2*	G	A	425	173.843	113.949	36.638	1.00	89.05	A16S
ATOM	8935	C3*	G	A	425	173.561	114.534	38.990	1.00	89.05	A16S
ATOM	8936	O3*	G	A	425	172.236	114.915	38.667	1.00	89.05	A16S
ATOM	8937	P	G	A	426	171.011	114.112	39.323	1.00	62.44	A16S
ATOM	8938	O1P	G	A	426	169.758	114.761	38.878	1.00	80.47	A16S
ATOM	8939	O2P	G	A	426	171.293	113.971	40.776	1.00	80.47	A16S
ATOM	8940	O5*	G	A	426	171.107	112.663	38.661	1.00	62.44	A16S
ATOM	8941	C5*	G	A	426	171.205	112.517	37.227	1.00	62.44	A16S
ATOM	8942	C4*	G	A	426	171.398	111.069	36.841	1.00	62.44	A16S
ATOM	8943	O4*	G	A	426	172.687	110.582	37.285	1.00	62.44	A16S
ATOM	8944	C1*	G	A	426	172.606	109.188	37.509	1.00	62.44	A16S
ATOM	8945	N9	G	A	426	173.078	108.884	38.853	1.00	80.47	A16S
ATOM	8946	C4	G	A	426	173.375	107.634	39.327	1.00	80.47	A16S
ATOM	8947	N3	G	A	426	173.300	106.488	38.626	1.00	80.47	A16S
ATOM	8948	C2	G	A	426	173.644	105.444	39.352	1.00	80.47	A16S
ATOM	8949	N2	G	A	426	173.642	104.226	38.807	1.00	80.47	A16S
ATOM	8950	N1	G	A	426	174.021	105.516	40.666	1.00	80.47	A16S
ATOM	8951	C6	G	A	426	174.101	106.684	41.411	1.00	80.47	A16S
ATOM	8952	O6	G	A	426	174.446	106.633	42.597	1.00	80.47	A16S
ATOM	8953	C5	G	A	426	173.745	107.817	40.639	1.00	80.47	A16S
ATOM	8954	N7	G	A	426	173.697	109.160	40.982	1.00	80.47	A16S
ATOM	8955	C8	G	A	426	173.298	109.756	39.890	1.00	80.47	A16S
ATOM	8956	C2*	G	A	426	171.154	108.753	37.303	1.00	62.44	A16S
ATOM	8957	O2*	G	A	426	171.021	108.134	36.042	1.00	62.44	A16S
ATOM	8958	C3*	G	A	426	170.405	110.074	37.408	1.00	62.44	A16S
ATOM	8959	O3*	G	A	426	169.216	110.054	36.642	1.00	62.44	A16S
ATOM	8960	P	U	A	427	167.828	109.665	37.343	1.00	42.38	A16S
ATOM	8961	O1P	U	A	427	166.769	109.948	36.341	1.00	81.50	A16S
ATOM	8962	O2P	U	A	427	167.771	110.315	38.676	1.00	81.50	A16S
ATOM	8963	O5*	U	A	427	167.936	108.094	37.570	1.00	42.38	A16S
ATOM	8964	C5*	U	A	427	167.992	107.199	36.449	1.00	42.38	A16S
ATOM	8965	C4*	U	A	427	168.164	105.773	36.914	1.00	42.38	A16S
ATOM	8966	O4*	U	A	427	169.475	105.607	37.500	1.00	42.38	A16S
ATOM	8967	C1*	U	A	427	169.404	104.691	38.575	1.00	42.38	A16S
ATOM	8968	N1	U	A	427	169.889	105.372	39.790	1.00	81.50	A16S
ATOM	8969	C6	U	A	427	169.827	106.746	39.911	1.00	81.50	A16S
ATOM	8970	C2	U	A	427	170.422	104.595	40.815	1.00	81.50	A16S
ATOM	8971	O2	U	A	427	170.488	103.372	40.767	1.00	81.50	A16S
ATOM	8972	N3	U	A	427	170.871	105.305	41.904	1.00	81.50	A16S
ATOM	8973	C4	U	A	427	170.841	106.673	42.079	1.00	81.50	A16S
ATOM	8974	O4	U	A	427	171.285	107.163	43.123	1.00	81.50	A16S
ATOM	8975	C5	U	A	427	170.272	107.399	40.987	1.00	81.50	A16S
ATOM	8976	C2*	U	A	427	167.963	104.169	38.650	1.00	42.38	A16S
ATOM	8977	O2*	U	A	427	167.850	102.961	37.928	1.00	42.38	A16S
ATOM	8978	C3*	U	A	427	167.185	105.284	37.967	1.00	42.38	A16S
ATOM	8979	O3*	U	A	427	166.020	104.778	37.339	1.00	42.38	A16S
ATOM	8980	P	G	A	428	164.735	104.383	38.218	1.00	56.15	A16S
ATOM	8981	O1P	G	A	428	165.116	103.259	39.118	1.00	72.37	A16S
ATOM	8982	O2P	G	A	428	163.596	104.216	37.279	1.00	72.37	A16S
ATOM	8983	O5*	G	A	428	164.450	105.685	39.084	1.00	56.15	A16S
ATOM	8984	C5*	G	A	428	163.110	106.176	39.251	1.00	56.15	A16S
ATOM	8985	C4*	G	A	428	163.120	107.426	40.091	1.00	56.15	A16S
ATOM	8986	O4*	G	A	428	163.587	107.083	41.420	1.00	56.15	A16S
ATOM	8987	C1*	G	A	428	164.791	107.763	41.716	1.00	56.15	A16S
ATOM	8988	N9	G	A	428	165.745	106.773	42.211	1.00	72.37	A16S
ATOM	8989	C4	G	A	428	166.700	106.962	43.178	1.00	72.37	A16S
ATOM	8990	N3	G	A	428	166.909	108.093	43.871	1.00	72.37	A16S
ATOM	8991	C2	G	A	428	167.893	107.967	44.736	1.00	72.37	A16S
ATOM	8992	N2	G	A	428	168.213	108.996	45.522	1.00	72.37	A16S
ATOM	8993	N1	G	A	428	168.628	106.827	44.898	1.00	72.37	A16S
ATOM	8994	C6	G	A	428	168.436	105.654	44.189	1.00	72.37	A16S
ATOM	8995	O6	G	A	428	169.158	104.691	44.406	1.00	72.37	A16S
ATOM	8996	C5	G	A	428	167.372	105.767	43.271	1.00	72.37	A16S
ATOM	8997	N7	G	A	428	166.841	104.837	42.396	1.00	72.37	A16S
ATOM	8998	C8	G	A	428	165.880	105.475	41.789	1.00	72.37	A16S
ATOM	8999	C2*	G	A	428	165.298	108.403	40.428	1.00	56.15	A16S
ATOM	9000	O2*	G	A	428	165.981	109.611	40.666	1.00	56.15	A16S

ATOM	9001	C3*	G	A	428	164.032	108.531	39.584	1.00	56.15	A16S
ATOM	9002	O3*	G	A	428	163.358	109.799	39.480	1.00	56.15	A16S
ATOM	9003	P	U	A	429	162.833	110.572	40.780	1.00	64.00	A16S
ATOM	9004	O1P	U	A	429	162.206	111.816	40.267	1.00	81.33	A16S
ATOM	9005	O2P	U	A	429	163.952	110.663	41.742	1.00	81.33	A16S
ATOM	9006	O5*	U	A	429	161.683	109.627	41.363	1.00	64.00	A16S
ATOM	9007	C5*	U	A	429	161.730	109.181	42.733	1.00	64.00	A16S
ATOM	9008	C4*	U	A	429	160.564	108.272	43.061	1.00	64.00	A16S
ATOM	9009	O4*	U	A	429	160.845	107.645	44.334	1.00	64.00	A16S
ATOM	9010	C1*	U	A	429	159.823	107.948	45.257	1.00	64.00	A16S
ATOM	9011	N1	U	A	429	160.433	108.052	46.595	1.00	81.33	A16S
ATOM	9012	C6	U	A	429	160.376	109.207	47.337	1.00	81.33	A16S
ATOM	9013	C2	U	A	429	161.079	106.924	47.092	1.00	81.33	A16S
ATOM	9014	O2	U	A	429	161.159	105.882	46.478	1.00	81.33	A16S
ATOM	9015	N3	U	A	429	161.629	107.065	48.336	1.00	81.33	A16S
ATOM	9016	C4	U	A	429	161.607	108.187	49.125	1.00	81.33	A16S
ATOM	9017	O4	U	A	429	162.209	108.179	50.203	1.00	81.33	A16S
ATOM	9018	C5	U	A	429	160.923	109.310	48.549	1.00	81.33	A16S
ATOM	9019	C2*	U	A	429	159.115	109.189	44.710	1.00	64.00	A16S
ATOM	9020	O2*	U	A	429	157.788	109.253	45.185	1.00	64.00	A16S
ATOM	9021	C3*	U	A	429	159.200	108.945	43.207	1.00	64.00	A16S
ATOM	9022	O3*	U	A	429	158.131	108.032	42.903	1.00	64.00	A16S
ATOM	9023	P	A	A	430	158.100	107.231	41.503	1.00	53.34	A16S
ATOM	9024	O1P	A	A	430	158.474	108.169	40.406	1.00	61.42	A16S
ATOM	9025	O2P	A	A	430	156.819	106.478	41.425	1.00	61.42	A16S
ATOM	9026	O5*	A	A	430	159.272	106.168	41.654	1.00	53.34	A16S
ATOM	9027	C5*	A	A	430	159.347	105.336	42.807	1.00	53.34	A16S
ATOM	9028	C4*	A	A	430	160.280	104.187	42.559	1.00	53.34	A16S
ATOM	9029	O4*	A	A	430	161.615	104.676	42.283	1.00	53.34	A16S
ATOM	9030	C1*	A	A	430	162.569	103.790	42.846	1.00	53.34	A16S
ATOM	9031	N9	A	A	430	163.425	104.526	43.777	1.00	61.42	A16S
ATOM	9032	C4	A	A	430	164.527	104.013	44.417	1.00	61.42	A16S
ATOM	9033	N3	A	A	430	165.031	102.774	44.301	1.00	61.42	A16S
ATOM	9034	C2	A	A	430	166.097	102.633	45.078	1.00	61.42	A16S
ATOM	9035	N1	A	A	430	166.672	103.520	45.893	1.00	61.42	A16S
ATOM	9036	C6	A	A	430	166.138	104.756	45.983	1.00	61.42	A16S
ATOM	9037	N6	A	A	430	166.718	105.650	46.789	1.00	61.42	A16S
ATOM	9038	C5	A	A	430	165.006	105.030	45.216	1.00	61.42	A16S
ATOM	9039	N7	A	A	430	164.231	106.168	45.080	1.00	61.42	A16S
ATOM	9040	C8	A	A	430	163.312	105.820	44.214	1.00	61.42	A16S
ATOM	9041	C2*	A	A	430	161.810	102.665	43.552	1.00	53.34	A16S
ATOM	9042	O2*	A	A	430	161.770	101.529	42.723	1.00	53.34	A16S
ATOM	9043	C3*	A	A	430	160.442	103.293	43.768	1.00	53.34	A16S
ATOM	9044	O3*	A	A	430	159.396	102.336	43.821	1.00	53.34	A16S
ATOM	9045	P	A	A	431	158.729	101.970	45.233	1.00	59.48	A16S
ATOM	9046	O1P	A	A	431	157.665	100.962	44.984	1.00	76.68	A16S
ATOM	9047	O2P	A	A	431	158.376	103.244	45.901	1.00	76.68	A16S
ATOM	9048	O5*	A	A	431	159.916	101.263	46.024	1.00	59.48	A16S
ATOM	9049	C5*	A	A	431	160.492	100.055	45.517	1.00	59.48	A16S
ATOM	9050	C4*	A	A	431	161.787	99.741	46.224	1.00	59.48	A16S
ATOM	9051	O4*	A	A	431	162.731	100.819	46.023	1.00	59.48	A16S
ATOM	9052	C1*	A	A	431	163.574	100.930	47.157	1.00	59.48	A16S
ATOM	9053	N9	A	A	431	163.434	102.277	47.703	1.00	76.68	A16S
ATOM	9054	C4	A	A	431	164.027	102.732	48.850	1.00	76.68	A16S
ATOM	9055	N3	A	A	431	164.844	102.048	49.664	1.00	76.68	A16S
ATOM	9056	C2	A	A	431	165.219	102.806	50.683	1.00	76.68	A16S
ATOM	9057	N1	A	A	431	164.887	104.073	50.961	1.00	76.68	A16S
ATOM	9058	C6	A	A	431	164.054	104.724	50.118	1.00	76.68	A16S
ATOM	9059	N6	A	A	431	163.704	105.980	50.396	1.00	76.68	A16S
ATOM	9060	C5	A	A	431	163.599	104.036	49.000	1.00	76.68	A16S
ATOM	9061	N7	A	A	431	162.765	104.405	47.960	1.00	76.68	A16S
ATOM	9062	C8	A	A	431	162.699	103.330	47.218	1.00	76.68	A16S
ATOM	9063	C2*	A	A	431	163.155	99.854	48.160	1.00	59.48	A16S
ATOM	9064	O2*	A	A	431	164.001	98.734	48.016	1.00	59.48	A16S
ATOM	9065	C3*	A	A	431	161.722	99.572	47.731	1.00	59.48	A16S
ATOM	9066	O3*	A	A	431	161.303	98.266	48.088	1.00	59.48	A16S
ATOM	9067	P	A	A	432	160.387	98.060	49.385	1.00	87.27	A16S
ATOM	9068	O1P	A	A	432	160.108	96.611	49.460	1.00	60.87	A16S
ATOM	9069	O2P	A	A	432	159.253	99.026	49.370	1.00	60.87	A16S
ATOM	9070	O5*	A	A	432	161.370	98.435	50.577	1.00	87.27	A16S
ATOM	9071	C5*	A	A	432	162.511	97.603	50.869	1.00	87.27	A16S
ATOM	9072	C4*	A	A	432	163.276	98.161	52.040	1.00	87.27	A16S
ATOM	9073	O4*	A	A	432	163.847	99.436	51.659	1.00	87.27	A16S
ATOM	9074	C1*	A	A	432	163.750	100.344	52.741	1.00	87.27	A16S
ATOM	9075	N9	A	A	432	162.827	101.401	52.345	1.00	60.87	A16S
ATOM	9076	C4	A	A	432	162.817	102.685	52.824	1.00	60.87	A16S
ATOM	9077	N3	A	A	432	163.666	103.228	53.712	1.00	60.87	A16S

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ATOM   9078  C2  A   A 432     163.344 104.495  53.948  1.00 60.87      A16S
ATOM   9079  N1  A   A 432     162.343 105.222  53.439  1.00 60.87      A16S
ATOM   9080  C6  A   A 432     161.509 104.641  52.552  1.00 60.87      A16S
ATOM   9081  N6  A   A 432     160.504 105.359  52.055  1.00 60.87      A16S
ATOM   9082  C5  A   A 432     161.748 103.307  52.210  1.00 60.87      A16S
ATOM   9083  N7  A   A 432     161.107 102.437  51.340  1.00 60.87      A16S
ATOM   9084  C8  A   A 432     161.786 101.324  51.453  1.00 60.87      A16S
ATOM   9085  C2* A   A 432     163.194  99.580  53.943  1.00 87.27      A16S
ATOM   9086  O2* A   A 432     164.238  99.087  54.756  1.00 87.27      A16S
ATOM   9087  C3* A   A 432     162.419  98.472  53.256  1.00 87.27      A16S
ATOM   9088  O3* A   A 432     162.223  97.350  54.092  1.00 87.27      A16S
ATOM   9089  P   C   A 433     160.763  97.071  54.687  1.00 70.37      A16S
ATOM   9090  O1P C   A 433     160.916  96.082  55.781  1.00 77.88      A16S
ATOM   9091  O2P C   A 433     159.847  96.780  53.563  1.00 77.88      A16S
ATOM   9092  O5* C   A 433     160.327  98.471  55.303  1.00 70.37      A16S
ATOM   9093  C5* C   A 433     161.056  99.055  56.395  1.00 70.37      A16S
ATOM   9094  C4* C   A 433     160.461 100.389  56.759  1.00 70.37      A16S
ATOM   9095  O4* C   A 433     160.681 101.327  55.675  1.00 70.37      A16S
ATOM   9096  C1* C   A 433     159.545 102.163  55.527  1.00 70.37      A16S
ATOM   9097  N1  C   A 433     158.990 101.955  54.175  1.00 77.88      A16S
ATOM   9098  C6  C   A 433     158.894 100.700  53.639  1.00 77.88      A16S
ATOM   9099  C2  C   A 433     158.560 103.063  53.446  1.00 77.88      A16S
ATOM   9100  O2  C   A 433     158.671 104.189  53.944  1.00 77.88      A16S
ATOM   9101  N3  C   A 433     158.041 102.885  52.214  1.00 77.88      A16S
ATOM   9102  C4  C   A 433     157.957 101.661  51.697  1.00 77.88      A16S
ATOM   9103  N4  C   A 433     157.453 101.538  50.468  1.00 77.88      A16S
ATOM   9104  C5  C   A 433     158.391 100.510  52.415  1.00 77.88      A16S
ATOM   9105  C2* C   A 433     158.550 101.805  56.634  1.00 70.37      A16S
ATOM   9106  O2* C   A 433     158.678 102.691  57.737  1.00 70.37      A16S
ATOM   9107  C3* C   A 433     158.956 100.371  56.943  1.00 70.37      A16S
ATOM   9108  O3* C   A 433     158.567  99.932  58.227  1.00 70.37      A16S
ATOM   9109  P   U   A 434     157.211  99.094  58.383  1.00 70.38      A16S
ATOM   9110  O1P U   A 434     157.246  98.458  59.720  1.00 87.84      A16S
ATOM   9111  O2P U   A 434     157.049  98.247  57.170  1.00 87.84      A16S
ATOM   9112  O5* U   A 434     156.073 100.210  58.383  1.00 70.38      A16S
ATOM   9113  C5* U   A 434     156.005 101.176  59.444  1.00 70.38      A16S
ATOM   9114  C4* U   A 434     154.977 102.234  59.137  1.00 70.38      A16S
ATOM   9115  O4* U   A 434     155.414 103.035  58.010  1.00 70.38      A16S
ATOM   9116  C1* U   A 434     154.278 103.493  57.292  1.00 70.38      A16S
ATOM   9117  N1  U   A 434     154.381 103.084  55.881  1.00 87.84      A16S
ATOM   9118  C6  U   A 434     155.327 102.184  55.449  1.00 87.84      A16S
ATOM   9119  C2  U   A 434     153.474 103.640  54.990  1.00 87.84      A16S
ATOM   9120  O2  U   A 434     152.625 104.453  55.323  1.00 87.84      A16S
ATOM   9121  N3  U   A 434     153.598 103.213  53.697  1.00 87.84      A16S
ATOM   9122  C4  U   A 434     154.513 102.319  53.204  1.00 87.84      A16S
ATOM   9123  O4  U   A 434     154.482 102.028  52.011  1.00 87.84      A16S
ATOM   9124  C5  U   A 434     155.423 101.796  54.177  1.00 87.84      A16S
ATOM   9125  C2* U   A 434     153.027 102.927  57.970  1.00 70.38      A16S
ATOM   9126  O2* U   A 434     152.452 103.910  58.804  1.00 70.38      A16S
ATOM   9127  C3* U   A 434     153.594 101.743  58.741  1.00 70.38      A16S
ATOM   9128  O3* U   A 434     152.783 101.425  59.861  1.00 70.38      A16S
ATOM   9129  P   C   A 435     151.618 100.325  59.710  1.00 69.82      A16S
ATOM   9130  O1P C   A 435     151.074 100.073  61.068  1.00112.23      A16S
ATOM   9131  O2P C   A 435     152.143  99.185  58.909  1.00112.23      A16S
ATOM   9132  O5* C   A 435     150.484 101.057  58.866  1.00 69.82      A16S
ATOM   9133  C5* C   A 435     149.650 102.049  59.473  1.00 69.82      A16S
ATOM   9134  C4* C   A 435     148.808 102.715  58.427  1.00 69.82      A16S
ATOM   9135  O4* C   A 435     149.695 103.280  57.429  1.00 69.82      A16S
ATOM   9136  C1* C   A 435     149.113 103.154  56.142  1.00 69.82      A16S
ATOM   9137  N1  C   A 435     150.007 102.342  55.289  1.00112.23      A16S
ATOM   9138  C6  C   A 435     150.858 101.421  55.833  1.00112.23      A16S
ATOM   9139  C2  C   A 435     149.966 102.526  53.898  1.00112.23      A16S
ATOM   9140  O2  C   A 435     149.192 103.368  53.423  1.00112.23      A16S
ATOM   9141  N3  C   A 435     150.767 101.778  53.110  1.00112.23      A16S
ATOM   9142  C4  C   A 435     151.585 100.878  53.653  1.00112.23      A16S
ATOM   9143  N4  C   A 435     152.349 100.156  52.833  1.00112.23      A16S
ATOM   9144  C5  C   A 435     151.655 100.676  55.061  1.00112.23      A16S
ATOM   9145  C2* C   A 435     147.729 102.531  56.323  1.00 69.82      A16S
ATOM   9146  O2* C   A 435     146.769 103.565  56.401  1.00 69.82      A16S
ATOM   9147  C3* C   A 435     147.893 101.791  57.643  1.00 69.82      A16S
ATOM   9148  O3* C   A 435     146.649 101.586  58.296  1.00 69.82      A16S
ATOM   9149  P   C   A 436     145.755 100.306  57.910  1.00 77.16      A16S
ATOM   9150  O1P C   A 436     144.569 100.247  58.804  1.00 61.22      A16S
ATOM   9151  O2P C   A 436     146.663  99.130  57.811  1.00 61.22      A16S
ATOM   9152  O5* C   A 436     145.224 100.639  56.450  1.00 77.16      A16S
ATOM   9153  C5* C   A 436     144.359 101.760  56.223  1.00 77.16      A16S
ATOM   9154  C4* C   A 436     143.957 101.820  54.770  1.00 77.16      A16S
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ATOM   9155  O4* C   A 436     145.089 102.201  53.944  1.00 77.16      A16S
ATOM   9156  C1* C   A 436     145.038 101.502  52.712  1.00 77.16      A16S
ATOM   9157  N1  C   A 436     146.228 100.638  52.612  1.00 61.22      A16S
ATOM   9158  C6  C   A 436     147.160 100.602  53.612  1.00 61.22      A16S
ATOM   9159  C2  C   A 436     146.385  99.835  51.478  1.00 61.22      A16S
ATOM   9160  O2  C   A 436     145.542  99.913  50.564  1.00 61.22      A16S
ATOM   9161  N3  C   A 436     147.453  98.999  51.401  1.00 61.22      A16S
ATOM   9162  C4  C   A 436     148.348  98.963  52.391  1.00 61.22      A16S
ATOM   9163  N4  C   A 436     149.380  98.124  52.279  1.00 61.22      A16S
ATOM   9164  C5  C   A 436     148.224  99.788  53.543  1.00 61.22      A16S
ATOM   9165  C2* C   A 436     143.754 100.674  52.706  1.00 77.16      A16S
ATOM   9166  O2* C   A 436     142.719 101.393  52.073  1.00 77.16      A16S
ATOM   9167  C3* C   A 436     143.499 100.498  54.191  1.00 77.16      A16S
ATOM   9168  O3* C   A 436     142.142 100.226  54.469  1.00 77.16      A16S
ATOM   9169  P   U   A 437     141.637  98.711  54.417  1.00 70.05      A16S
ATOM   9170  O1P U   A 437     140.245  98.641  54.935  1.00 45.82      A16S
ATOM   9171  O2P U   A 437     142.710  97.867  55.028  1.00 45.82      A16S
ATOM   9172  O5* U   A 437     141.580  98.399  52.860  1.00 70.05      A16S
ATOM   9173  C5* U   A 437     140.608  99.039  52.019  1.00 70.05      A16S
ATOM   9174  C4* U   A 437     140.792  98.602  50.591  1.00 70.05      A16S
ATOM   9175  O4* U   A 437     142.152  98.902  50.191  1.00 70.05      A16S
ATOM   9176  C1* U   A 437     142.616  97.910  49.301  1.00 70.05      A16S
ATOM   9177  N1  U   A 437     143.797  97.262  49.889  1.00 45.82      A16S
ATOM   9178  C6  U   A 437     144.072  97.339  51.229  1.00 45.82      A16S
ATOM   9179  C2  U   A 437     144.637  96.564  49.031  1.00 45.82      A16S
ATOM   9180  O2  U   A 437     144.434  96.477  47.825  1.00 45.82      A16S
ATOM   9181  N3  U   A 437     145.726  95.976  49.631  1.00 45.82      A16S
ATOM   9182  C4  U   A 437     146.060  96.023  50.959  1.00 45.82      A16S
ATOM   9183  O4  U   A 437     147.089  95.476  51.340  1.00 45.82      A16S
ATOM   9184  C5  U   A 437     145.147  96.762  51.778  1.00 45.82      A16S
ATOM   9185  C2* U   A 437     141.471  96.933  49.062  1.00 70.05      A16S
ATOM   9186  O2* U   A 437     140.768  97.350  47.914  1.00 70.05      A16S
ATOM   9187  C3* U   A 437     140.639  97.116  50.319  1.00 70.05      A16S
ATOM   9188  O3* U   A 437     139.281  96.761  50.094  1.00 70.05      A16S
ATOM   9189  P   G   A 438     138.829  95.222  50.216  1.00 60.95      A16S
ATOM   9190  O1P G   A 438     137.535  95.088  49.486  1.00 65.95      A16S
ATOM   9191  O2P G   A 438     138.916  94.791  51.635  1.00 65.95      A16S
ATOM   9192  O5* G   A 438     139.966  94.433  49.427  1.00 60.95      A16S
ATOM   9193  C5* G   A 438     140.085  94.523  47.994  1.00 60.95      A16S
ATOM   9194  C4* G   A 438     140.983  93.427  47.489  1.00 60.95      A16S
ATOM   9195  O4* G   A 438     142.299  93.591  48.076  1.00 60.95      A16S
ATOM   9196  C1* G   A 438     142.638  92.447  48.835  1.00 60.95      A16S
ATOM   9197  N9  G   A 438     143.244  92.917  50.073  1.00 65.95      A16S
ATOM   9198  C4  G   A 438     144.487  92.610  50.571  1.00 65.95      A16S
ATOM   9199  N3  G   A 438     145.400  91.807  49.994  1.00 65.95      A16S
ATOM   9200  C2  G   A 438     146.502  91.711  50.721  1.00 65.95      A16S
ATOM   9201  N2  G   A 438     147.527  90.956  50.302  1.00 65.95      A16S
ATOM   9202  N1  G   A 438     146.686  92.347  51.918  1.00 65.95      A16S
ATOM   9203  C6  G   A 438     145.756  93.174  52.536  1.00 65.95      A16S
ATOM   9204  O6  G   A 438     146.019  93.697  53.639  1.00 65.95      A16S
ATOM   9205  C5  G   A 438     144.577  93.291  51.763  1.00 65.95      A16S
ATOM   9206  N7  G   A 438     143.421  94.013  52.006  1.00 65.95      A16S
ATOM   9207  C8  G   A 438     142.661  93.764  50.980  1.00 65.95      A16S
ATOM   9208  C2* G   A 438     141.330  91.702  49.103  1.00 60.95      A16S
ATOM   9209  O2* G   A 438     141.540  90.322  49.321  1.00 60.95      A16S
ATOM   9210  C3* G   A 438     140.512  92.028  47.858  1.00 60.95      A16S
ATOM   9211  O3* G   A 438     140.828  91.141  46.797  1.00 60.95      A16S
ATOM   9212  P   A   A 439     139.808  90.975  45.570  1.00 54.34      A16S
ATOM   9213  O1P A   A 439     139.280  92.324  45.247  1.00 84.34      A16S
ATOM   9214  O2P A   A 439     138.857  89.879  45.878  1.00 84.34      A16S
ATOM   9215  O5* A   A 439     140.761  90.475  44.400  1.00 54.34      A16S
ATOM   9216  C5* A   A 439     141.133  89.093  44.316  1.00 54.34      A16S
ATOM   9217  C4* A   A 439     141.879  88.823  43.033  1.00 54.34      A16S
ATOM   9218  O4* A   A 439     143.227  89.349  43.128  1.00 54.34      A16S
ATOM   9219  C1* A   A 439     144.134  88.469  42.489  1.00 54.34      A16S
ATOM   9220  N9  A   A 439     145.121  88.042  43.482  1.00 84.34      A16S
ATOM   9221  C4  A   A 439     146.288  87.360  43.241  1.00 84.34      A16S
ATOM   9222  N3  A   A 439     146.755  86.941  42.057  1.00 84.34      A16S
ATOM   9223  C2  A   A 439     147.921  86.320  42.209  1.00 84.34      A16S
ATOM   9224  N1  A   A 439     148.621  86.092  43.324  1.00 84.34      A16S
ATOM   9225  C6  A   A 439     148.123  86.529  44.495  1.00 84.34      A16S
ATOM   9226  N6  A   A 439     148.823  86.307  45.606  1.00 84.34      A16S
ATOM   9227  C5  A   A 439     146.891  87.197  44.472  1.00 84.34      A16S
ATOM   9228  N7  A   A 439     146.119  87.759  45.474  1.00 84.34      A16S
ATOM   9229  C8  A   A 439     145.082  88.241  44.839  1.00 84.34      A16S
ATOM   9230  C2* A   A 439     143.320  87.321  41.884  1.00 54.34      A16S
ATOM   9231  O2* A   A 439     143.063  87.586  40.519  1.00 54.34      A16S
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ATOM   9232  C3* A   A 439     142.056  87.348  42.730  1.00 54.34      A16S
ATOM   9233  O3* A   A 439     140.916  86.880  42.024  1.00 54.34      A16S
ATOM   9234  P    A  A 440     140.309  85.432  42.359  1.00 74.33      A16S
ATOM   9235  O1P A   A 440     139.063  85.254  41.565  1.00 67.12      A16S
ATOM   9236  O2P A   A 440     140.265  85.249  43.827  1.00 67.12      A16S
ATOM   9237  O5* A   A 440     141.407  84.451  41.767  1.00 74.33      A16S
ATOM   9238  C5* A   A 440     141.766  83.268  42.465  1.00 74.33      A16S
ATOM   9239  C4* A   A 440     143.261  83.179  42.597  1.00 74.33      A16S
ATOM   9240  O4* A   A 440     143.774  84.386  43.208  1.00 74.33      A16S
ATOM   9241  C1* A   A 440     144.783  84.056  44.145  1.00 74.33      A16S
ATOM   9242  N9   A  A 440     144.312  84.488  45.464  1.00 67.12      A16S
ATOM   9243  C4   A  A 440     144.953  84.326  46.666  1.00 67.12      A16S
ATOM   9244  N3   A  A 440     146.140  83.741  46.884  1.00 67.12      A16S
ATOM   9245  C2   A  A 440     146.448  83.780  48.178  1.00 67.12      A16S
ATOM   9246  N1   A  A 440     145.758  84.296  49.198  1.00 67.12      A16S
ATOM   9247  C6   A  A 440     144.571  84.873  48.943  1.00 67.12      A16S
ATOM   9248  N6   A  A 440     143.888  85.389  49.959  1.00 67.12      A16S
ATOM   9249  C5   A  A 440     144.128  84.897  47.614  1.00 67.12      A16S
ATOM   9250  N7   A  A 440     142.983  85.406  47.024  1.00 67.12      A16S
ATOM   9251  C8   A  A 440     143.139  85.141  45.754  1.00 67.12      A16S
ATOM   9252  C2* A   A 440     145.030  82.546  44.041  1.00 74.33      A16S
ATOM   9253  O2* A   A 440     146.066  82.297  43.119  1.00 74.33      A16S
ATOM   9254  C3* A   A 440     143.697  82.055  43.508  1.00 74.33      A16S
ATOM   9255  O3* A   A 440     143.789  80.868  42.756  1.00 74.33      A16S
ATOM   9256  P    C  A 442     142.565  79.836  42.777  1.00 91.77      A16S
ATOM   9257  O1P C   A 442     142.966  78.686  41.932  1.00 74.12      A16S
ATOM   9258  O2P C   A 442     141.295  80.545  42.492  1.00 74.12      A16S
ATOM   9259  O5* C   A 442     142.501  79.376  44.297  1.00 91.77      A16S
ATOM   9260  C5* C   A 442     143.638  78.765  44.920  1.00 91.77      A16S
ATOM   9261  C4* C   A 442     143.648  79.068  46.394  1.00 91.77      A16S
ATOM   9262  O4* C   A 442     143.819  80.494  46.592  1.00 91.77      A16S
ATOM   9263  C1* C   A 442     143.081  80.907  47.726  1.00 91.77      A16S
ATOM   9264  N1   C  A 442     142.075  81.887  47.298  1.00 74.12      A16S
ATOM   9265  C6   C  A 442     141.616  81.912  46.012  1.00 74.12      A16S
ATOM   9266  C2   C  A 442     141.572  82.781  48.241  1.00 74.12      A16S
ATOM   9267  O2   C  A 442     142.023  82.752  49.396  1.00 74.12      A16S
ATOM   9268  N3   C  A 442     140.607  83.652  47.876  1.00 74.12      A16S
ATOM   9269  C4   C  A 442     140.149  83.652  46.626  1.00 74.12      A16S
ATOM   9270  N4   C  A 442     139.178  84.513  46.314  1.00 74.12      A16S
ATOM   9271  C5   C  A 442     140.660  82.766  45.637  1.00 74.12      A16S
ATOM   9272  C2* C   A 442     142.415  79.669  48.328  1.00 91.77      A16S
ATOM   9273  O2* C   A 442     143.200  79.175  49.392  1.00 91.77      A16S
ATOM   9274  C3* C   A 442     142.364  78.733  47.130  1.00 91.77      A16S
ATOM   9275  O3* C   A 442     142.301  77.363  47.496  1.00 91.77      A16S
ATOM   9276  P    C  A 443     140.876  76.619  47.527  1.00 73.43      A16S
ATOM   9277  O1P C   A 443     141.113  75.154  47.436  1.00 81.28      A16S
ATOM   9278  O2P C   A 443     139.982  77.278  46.543  1.00 81.28      A16S
ATOM   9279  O5* C   A 443     140.311  76.943  48.981  1.00 73.43      A16S
ATOM   9280  C5* C   A 443     140.838  76.285  50.155  1.00 73.43      A16S
ATOM   9281  C4* C   A 443     140.034  76.680  51.368  1.00 73.43      A16S
ATOM   9282  O4* C   A 443     140.200  78.101  51.601  1.00 73.43      A16S
ATOM   9283  C1* C   A 443     138.972  78.667  52.026  1.00 73.43      A16S
ATOM   9284  N1   C  A 443     138.542  79.674  51.033  1.00 81.28      A16S
ATOM   9285  C6   C  A 443     139.227  79.854  49.864  1.00 81.28      A16S
ATOM   9286  C2   C  A 443     137.408  80.449  51.308  1.00 81.28      A16S
ATOM   9287  O2   C  A 443     136.797  80.266  52.368  1.00 81.28      A16S
ATOM   9288  N3   C  A 443     137.005  81.372  50.413  1.00 81.28      A16S
ATOM   9289  C4   C  A 443     137.681  81.539  49.280  1.00 81.28      A16S
ATOM   9290  N4   C  A 443     137.243  82.467  48.430  1.00 81.28      A16S
ATOM   9291  C5   C  A 443     138.834  80.765  48.968  1.00 81.28      A16S
ATOM   9292  C2* C   A 443     137.964  77.528  52.167  1.00 73.43      A16S
ATOM   9293  O2* C   A 443     137.943  77.052  53.494  1.00 73.43      A16S
ATOM   9294  C3* C   A 443     138.535  76.500  51.212  1.00 73.43      A16S
ATOM   9295  O3* C   A 443     138.100  75.201  51.539  1.00 73.43      A16S
ATOM   9296  P    C  A 444     136.646  74.730  51.066  1.00 75.51      A16S
ATOM   9297  O1P C   A 444     136.453  73.324  51.493  1.00120.10      A16S
ATOM   9298  O2P C   A 444     136.500  75.087  49.633  1.00120.10      A16S
ATOM   9299  O5* C   A 444     135.663  75.659  51.906  1.00 75.51      A16S
ATOM   9300  C5* C   A 444     135.608  75.564  53.336  1.00 75.51      A16S
ATOM   9301  C4* C   A 444     134.466  76.387  53.872  1.00 75.51      A16S
ATOM   9302  O4* C   A 444     134.751  77.802  53.736  1.00 75.51      A16S
ATOM   9303  C1* C   A 444     133.536  78.508  53.516  1.00 75.51      A16S
ATOM   9304  N1   C  A 444     133.608  79.249  52.241  1.00120.10      A16S
ATOM   9305  C6   C  A 444     134.400  78.820  51.213  1.00120.10      A16S
ATOM   9306  C2   C  A 444     132.827  80.405  52.094  1.00120.10      A16S
ATOM   9307  O2   C  A 444     132.119  80.781  53.044  1.00120.10      A16S
ATOM   9308  N3   C  A 444     132.861  81.078  50.925  1.00120.10      A16S
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ATOM   9309  C4  C   A 444     133.633  80.645  49.930  1.00120.10          A16S
ATOM   9310  N4  C   A 444     133.632  81.340  48.796  1.00120.10          A16S
ATOM   9311  C5  C   A 444     134.441  79.482  50.053  1.00120.10          A16S
ATOM   9312  C2* C   A 444     132.399  77.490  53.486  1.00 75.51          A16S
ATOM   9313  O2* C   A 444     131.764  77.459  54.745  1.00 75.51          A16S
ATOM   9314  C3* C   A 444     133.143  76.206  53.156  1.00 75.51          A16S
ATOM   9315  O3* C   A 444     132.438  75.074  53.601  1.00 75.51          A16S
ATOM   9316  P   G   A 445     131.287  74.463  52.675  1.00 76.63          A16S
ATOM   9317  O1P G   A 445     130.708  73.321  53.420  1.00 90.56          A16S
ATOM   9318  O2P G   A 445     131.854  74.247  51.323  1.00 90.56          A16S
ATOM   9319  O5* G   A 445     130.190  75.614  52.602  1.00 76.63          A16S
ATOM   9320  C5* G   A 445     129.486  75.998  53.785  1.00 76.63          A16S
ATOM   9321  C4* G   A 445     128.538  77.134  53.505  1.00 76.63          A16S
ATOM   9322  O4* G   A 445     129.264  78.340  53.144  1.00 76.63          A16S
ATOM   9323  C1* G   A 445     128.458  79.133  52.279  1.00 76.63          A16S
ATOM   9324  N9  G   A 445     129.167  79.353  51.018  1.00 90.56          A16S
ATOM   9325  C4  G   A 445     128.709  80.116  49.970  1.00 90.56          A16S
ATOM   9326  N3  G   A 445     127.554  80.811  49.946  1.00 90.56          A16S
ATOM   9327  C2  G   A 445     127.380  81.443  48.804  1.00 90.56          A16S
ATOM   9328  N2  G   A 445     126.288  82.193  48.621  1.00 90.56          A16S
ATOM   9329  N1  G   A 445     128.263  81.389  47.759  1.00 90.56          A16S
ATOM   9330  C6  G   A 445     129.456  80.673  47.756  1.00 90.56          A16S
ATOM   9331  O6  G   A 445     130.175  80.679  46.749  1.00 90.56          A16S
ATOM   9332  C5  G   A 445     129.663  80.001  48.988  1.00 90.56          A16S
ATOM   9333  N7  G   A 445     130.714  79.198  49.413  1.00 90.56          A16S
ATOM   9334  C8  G   A 445     130.379  78.840  50.622  1.00 90.56          A16S
ATOM   9335  C2* G   A 445     127.149  78.376  52.045  1.00 76.63          A16S
ATOM   9336  O2* G   A 445     126.137  78.871  52.902  1.00 76.63          A16S
ATOM   9337  C3* G   A 445     127.563  76.945  52.363  1.00 76.63          A16S
ATOM   9338  O3* G   A 445     126.467  76.129  52.705  1.00 76.63          A16S
ATOM   9339  P   G   A 446     125.853  75.157  51.592  1.00 63.29          A16S
ATOM   9340  O1P G   A 446     124.843  74.288  52.246  1.00 75.72          A16S
ATOM   9341  O2P G   A 446     126.993  74.534  50.862  1.00 75.72          A16S
ATOM   9342  O5* G   A 446     125.071  76.160  50.631  1.00 63.29          A16S
ATOM   9343  C5* G   A 446     123.991  76.955  51.150  1.00 63.29          A16S
ATOM   9344  C4* G   A 446     123.475  77.930  50.111  1.00 63.29          A16S
ATOM   9345  O4* G   A 446     124.511  78.882  49.770  1.00 63.29          A16S
ATOM   9346  C1* G   A 446     124.323  79.322  48.437  1.00 63.29          A16S
ATOM   9347  N9  G   A 446     125.512  78.995  47.658  1.00 75.72          A16S
ATOM   9348  C4  G   A 446     125.878  79.583  46.477  1.00 75.72          A16S
ATOM   9349  N3  G   A 446     125.209  80.572  45.846  1.00 75.72          A16S
ATOM   9350  C2  G   A 446     125.817  80.946  44.738  1.00 75.72          A16S
ATOM   9351  N2  G   A 446     125.303  81.942  44.001  1.00 75.72          A16S
ATOM   9352  N1  G   A 446     126.980  80.380  44.275  1.00 75.72          A16S
ATOM   9353  C6  G   A 446     127.678  79.355  44.907  1.00 75.72          A16S
ATOM   9354  O6  G   A 446     128.714  78.908  44.403  1.00 75.72          A16S
ATOM   9355  C5  G   A 446     127.045  78.959  46.105  1.00 75.72          A16S
ATOM   9356  N7  G   A 446     127.408  77.996  47.035  1.00 75.72          A16S
ATOM   9357  C8  G   A 446     126.471  78.053  47.938  1.00 75.72          A16S
ATOM   9358  C2* G   A 446     123.090  78.620  47.879  1.00 63.29          A16S
ATOM   9359  O2* G   A 446     121.957  79.449  48.025  1.00 63.29          A16S
ATOM   9360  C3* G   A 446     123.006  77.390  48.768  1.00 63.29          A16S
ATOM   9361  O3* G   A 446     121.672  76.911  48.783  1.00 63.29          A16S
ATOM   9362  P   G   A 447     121.207  75.849  47.670  1.00 73.89          A16S
ATOM   9363  O1P G   A 447     119.720  75.851  47.621  1.00 78.85          A16S
ATOM   9364  O2P G   A 447     121.943  74.568  47.890  1.00 78.85          A16S
ATOM   9365  O5* G   A 447     121.741  76.479  46.311  1.00 73.89          A16S
ATOM   9366  C5* G   A 447     121.079  77.608  45.709  1.00 73.89          A16S
ATOM   9367  C4* G   A 447     121.657  77.881  44.344  1.00 73.89          A16S
ATOM   9368  O4* G   A 447     122.979  78.464  44.465  1.00 73.89          A16S
ATOM   9369  C1* G   A 447     123.818  77.961  43.441  1.00 73.89          A16S
ATOM   9370  N9  G   A 447     124.873  77.181  44.080  1.00 78.85          A16S
ATOM   9371  C4  G   A 447     126.117  76.892  43.568  1.00 78.85          A16S
ATOM   9372  N3  G   A 447     126.602  77.297  42.375  1.00 78.85          A16S
ATOM   9373  C2  G   A 447     127.832  76.852  42.164  1.00 78.85          A16S
ATOM   9374  N2  G   A 447     128.469  77.156  41.027  1.00 78.85          A16S
ATOM   9375  N1  G   A 447     128.528  76.077  43.053  1.00 78.85          A16S
ATOM   9376  C6  G   A 447     128.053  75.654  44.289  1.00 78.85          A16S
ATOM   9377  O6  G   A 447     128.770  74.964  45.023  1.00 78.85          A16S
ATOM   9378  C5  G   A 447     126.734  76.118  44.527  1.00 78.85          A16S
ATOM   9379  N7  G   A 447     125.900  75.927  45.619  1.00 78.85          A16S
ATOM   9380  C8  G   A 447     124.812  76.575  45.311  1.00 78.85          A16S
ATOM   9381  C2* G   A 447     122.950  77.094  42.530  1.00 73.89          A16S
ATOM   9382  O2* G   A 447     122.445  77.869  41.465  1.00 73.89          A16S
ATOM   9383  C3* G   A 447     121.860  76.647  43.489  1.00 73.89          A16S
ATOM   9384  O3* G   A 447     120.647  76.258  42.876  1.00 73.89          A16S
ATOM   9385  P   A   A 448     120.657  75.179  41.690  1.00 80.54          A16S
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ATOM	9386	O1P	A	A	448	119.390	74.410	41.797	1.00	55.70	A16S
ATOM	9387	O2P	A	A	448	121.951	74.461	41.655	1.00	55.70	A16S
ATOM	9388	O5*	A	A	448	120.541	76.117	40.418	1.00	80.54	A16S
ATOM	9389	C5*	A	A	448	119.716	77.281	40.512	1.00	80.54	A16S
ATOM	9390	C4*	A	A	448	119.826	78.123	39.282	1.00	80.54	A16S
ATOM	9391	O4*	A	A	448	121.151	78.675	39.150	1.00	80.54	A16S
ATOM	9392	C1*	A	A	448	121.358	79.017	37.802	1.00	80.54	A16S
ATOM	9393	N9	A	A	448	122.656	78.520	37.373	1.00	55.70	A16S
ATOM	9394	C4	A	A	448	123.403	79.073	36.365	1.00	55.70	A16S
ATOM	9395	N3	A	A	448	123.093	80.147	35.620	1.00	55.70	A16S
ATOM	9396	C2	A	A	448	124.045	80.386	34.732	1.00	55.70	A16S
ATOM	9397	N1	A	A	448	125.184	79.721	34.520	1.00	55.70	A16S
ATOM	9398	C6	A	A	448	125.457	78.644	35.289	1.00	55.70	A16S
ATOM	9399	N6	A	A	448	126.583	77.973	35.076	1.00	55.70	A16S
ATOM	9400	C5	A	A	448	124.534	78.293	36.266	1.00	55.70	A16S
ATOM	9401	N7	A	A	448	124.510	77.270	37.198	1.00	55.70	A16S
ATOM	9402	C8	A	A	448	123.376	77.449	37.830	1.00	55.70	A16S
ATOM	9403	C2*	A	A	448	120.204	78.437	36.985	1.00	80.54	A16S
ATOM	9404	O2*	A	A	448	119.315	79.490	36.701	1.00	80.54	A16S
ATOM	9405	C3*	A	A	448	119.588	77.441	37.956	1.00	80.54	A16S
ATOM	9406	O3*	A	A	448	118.197	77.308	37.742	1.00	80.54	A16S
ATOM	9407	P	C	A	449	117.663	76.574	36.424	1.00	60.06	A16S
ATOM	9408	O1P	C	A	449	116.210	76.349	36.620	1.00	59.96	A16S
ATOM	9409	O2P	C	A	449	118.550	75.422	36.100	1.00	59.96	A16S
ATOM	9410	O5*	C	A	449	117.818	77.677	35.291	1.00	60.06	A16S
ATOM	9411	C5*	C	A	449	116.979	78.834	35.290	1.00	60.06	A16S
ATOM	9412	C4*	C	A	449	117.363	79.760	34.167	1.00	60.06	A16S
ATOM	9413	O4*	C	A	449	118.744	80.184	34.322	1.00	60.06	A16S
ATOM	9414	C1*	C	A	449	119.322	80.403	33.051	1.00	60.06	A16S
ATOM	9415	N1	C	A	449	120.536	79.571	32.925	1.00	59.96	A16S
ATOM	9416	C6	C	A	449	120.716	78.459	33.694	1.00	59.96	A16S
ATOM	9417	C2	C	A	449	121.505	79.941	31.998	1.00	59.96	A16S
ATOM	9418	O2	C	A	449	121.325	80.954	31.316	1.00	59.96	A16S
ATOM	9419	N3	C	A	449	122.616	79.191	31.862	1.00	59.96	A16S
ATOM	9420	C4	C	A	449	122.779	78.105	32.609	1.00	59.96	A16S
ATOM	9421	N4	C	A	449	123.889	77.391	32.431	1.00	59.96	A16S
ATOM	9422	C5	C	A	449	121.813	77.703	33.569	1.00	59.96	A16S
ATOM	9423	C2*	C	A	449	118.251	80.102	32.000	1.00	60.06	A16S
ATOM	9424	O2*	C	A	449	117.617	81.312	31.625	1.00	60.06	A16S
ATOM	9425	C3*	C	A	449	117.315	79.175	32.770	1.00	60.06	A16S
ATOM	9426	O3*	C	A	449	115.988	79.142	32.257	1.00	60.06	A16S
ATOM	9427	P	G	A	450	115.325	77.720	31.888	1.00	57.59	A16S
ATOM	9428	O1P	G	A	450	113.866	77.943	31.611	1.00	58.55	A16S
ATOM	9429	O2P	G	A	450	115.734	76.746	32.945	1.00	58.55	A16S
ATOM	9430	O5*	G	A	450	116.077	77.274	30.552	1.00	57.59	A16S
ATOM	9431	C5*	G	A	450	116.038	78.090	29.366	1.00	57.59	A16S
ATOM	9432	C4*	G	A	450	117.278	77.869	28.526	1.00	57.59	A16S
ATOM	9433	O4*	G	A	450	118.456	78.216	29.297	1.00	57.59	A16S
ATOM	9434	C1*	G	A	450	119.536	77.378	28.930	1.00	57.59	A16S
ATOM	9435	N9	G	A	450	119.943	76.616	30.107	1.00	58.55	A16S
ATOM	9436	C4	G	A	450	121.088	75.860	30.255	1.00	58.55	A16S
ATOM	9437	N3	G	A	450	122.075	75.720	29.346	1.00	58.55	A16S
ATOM	9438	C2	G	A	450	123.013	74.884	29.761	1.00	58.55	A16S
ATOM	9439	N2	G	A	450	124.068	74.618	28.978	1.00	58.55	A16S
ATOM	9440	N1	G	A	450	122.987	74.245	30.972	1.00	58.55	A16S
ATOM	9441	C6	G	A	450	121.988	74.384	31.924	1.00	58.55	A16S
ATOM	9442	O6	G	A	450	122.063	73.764	32.989	1.00	58.55	A16S
ATOM	9443	C5	G	A	450	120.977	75.272	31.492	1.00	58.55	A16S
ATOM	9444	N7	G	A	450	119.815	75.678	32.126	1.00	58.55	A16S
ATOM	9445	C8	G	A	450	119.237	76.475	31.272	1.00	58.55	A16S
ATOM	9446	C2*	G	A	450	119.039	76.458	27.815	1.00	57.59	A16S
ATOM	9447	O2*	G	A	450	119.343	77.000	26.547	1.00	57.59	A16S
ATOM	9448	C3*	G	A	450	117.542	76.451	28.055	1.00	57.59	A16S
ATOM	9449	O3*	G	A	450	116.883	76.162	26.838	1.00	57.59	A16S
ATOM	9450	P	A	A	451	116.556	74.641	26.465	1.00	51.58	A16S
ATOM	9451	O1P	A	A	451	117.662	73.818	27.005	1.00	77.97	A16S
ATOM	9452	O2P	A	A	451	116.219	74.561	25.019	1.00	77.97	A16S
ATOM	9453	O5*	A	A	451	115.247	74.334	27.315	1.00	51.58	A16S
ATOM	9454	C5*	A	A	451	113.924	74.519	26.760	1.00	51.58	A16S
ATOM	9455	C4*	A	A	451	112.874	74.437	27.860	1.00	51.58	A16S
ATOM	9456	O4*	A	A	451	112.926	73.141	28.513	1.00	51.58	A16S
ATOM	9457	C1*	A	A	451	113.374	73.278	29.847	1.00	51.58	A16S
ATOM	9458	N9	A	A	451	114.508	72.367	29.997	1.00	77.97	A16S
ATOM	9459	C4	A	A	451	114.689	71.364	30.917	1.00	77.97	A16S
ATOM	9460	N3	A	A	451	113.880	71.019	31.930	1.00	77.97	A16S
ATOM	9461	C2	A	A	451	114.394	69.993	32.604	1.00	77.97	A16S
ATOM	9462	N1	A	A	451	115.523	69.317	32.385	1.00	77.97	A16S

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ATOM   9463  C6  A   A 451     116.300  69.683  31.348  1.00 77.97      A16S
ATOM   9464  N6  A   A 451     117.410  68.995  31.100  1.00 77.97      A16S
ATOM   9465  C5  A   A 451     115.886  70.763  30.580  1.00 77.97      A16S
ATOM   9466  N7  A   A 451     116.457  71.384  29.489  1.00 77.97      A16S
ATOM   9467  C8  A   A 451     115.612  72.329  29.188  1.00 77.97      A16S
ATOM   9468  C2* A   A 451     113.761  74.745  30.061  1.00 51.58      A16S
ATOM   9469  O2* A   A 451     113.379  75.187  31.346  1.00 51.58      A16S
ATOM   9470  C3* A   A 451     112.976  75.469  28.970  1.00 51.58      A16S
ATOM   9471  O3* A   A 451     111.657  75.739  29.411  1.00 51.58      A16S
ATOM   9472  P   A   A 452     111.189  77.245  29.667  1.00 65.89      A16S
ATOM   9473  O1P A   A 452     111.946  78.126  28.752  1.00 67.95      A16S
ATOM   9474  O2P A   A 452     111.255  77.481  31.141  1.00 67.95      A16S
ATOM   9475  O5* A   A 452     109.678  77.251  29.153  1.00 65.89      A16S
ATOM   9476  C5* A   A 452     108.717  76.244  29.577  1.00 65.89      A16S
ATOM   9477  C4* A   A 452     108.509  75.218  28.477  1.00 65.89      A16S
ATOM   9478  O4* A   A 452     109.649  74.332  28.453  1.00 65.89      A16S
ATOM   9479  C1* A   A 452     109.287  73.178  27.743  1.00 65.89      A16S
ATOM   9480  N9  A   A 452     110.138  72.051  28.116  1.00 67.95      A16S
ATOM   9481  C4  A   A 452     110.769  71.264  27.189  1.00 67.95      A16S
ATOM   9482  N3  A   A 452     110.658  71.346  25.853  1.00 67.95      A16S
ATOM   9483  C2  A   A 452     111.446  70.459  25.268  1.00 67.95      A16S
ATOM   9484  N1  A   A 452     112.277  69.570  25.824  1.00 67.95      A16S
ATOM   9485  C6  A   A 452     112.368  69.520  27.170  1.00 67.95      A16S
ATOM   9486  N6  A   A 452     113.218  68.656  27.718  1.00 67.95      A16S
ATOM   9487  C5  A   A 452     111.567  70.398  27.908  1.00 67.95      A16S
ATOM   9488  N7  A   A 452     111.406  70.598  29.271  1.00 67.95      A16S
ATOM   9489  C8  A   A 452     110.535  71.579  29.341  1.00 67.95      A16S
ATOM   9490  C2* A   A 452     107.769  73.040  27.755  1.00 65.89      A16S
ATOM   9491  O2* A   A 452     107.400  73.201  26.412  1.00 65.89      A16S
ATOM   9492  C3* A   A 452     107.326  74.250  28.589  1.00 65.89      A16S
ATOM   9493  O3* A   A 452     106.152  74.846  27.991  1.00 65.89      A16S
ATOM   9494  P   A   A 453     104.805  73.970  27.777  1.00 53.04      A16S
ATOM   9495  O1P A   A 453     103.638  74.875  27.902  1.00 69.54      A16S
ATOM   9496  O2P A   A 453     104.901  72.758  28.649  1.00 69.54      A16S
ATOM   9497  O5* A   A 453     104.830  73.506  26.253  1.00 53.04      A16S
ATOM   9498  C5* A   A 453     104.270  72.233  25.866  1.00 53.04      A16S
ATOM   9499  C4* A   A 453     105.145  71.566  24.830  1.00 53.04      A16S
ATOM   9500  O4* A   A 453     106.513  71.521  25.284  1.00 53.04      A16S
ATOM   9501  C1* A   A 453     107.155  70.380  24.768  1.00 53.04      A16S
ATOM   9502  N9  A   A 453     107.751  69.644  25.876  1.00 69.54      A16S
ATOM   9503  C4  A   A 453     108.652  68.624  25.754  1.00 69.54      A16S
ATOM   9504  N3  A   A 453     109.134  68.105  24.618  1.00 69.54      A16S
ATOM   9505  C2  A   A 453     109.995  67.128  24.883  1.00 69.54      A16S
ATOM   9506  N1  A   A 453     110.398  66.650  26.066  1.00 69.54      A16S
ATOM   9507  C6  A   A 453     109.888  67.199  27.186  1.00 69.54      A16S
ATOM   9508  N6  A   A 453     110.284  66.724  28.362  1.00 69.54      A16S
ATOM   9509  C5  A   A 453     108.965  68.241  27.040  1.00 69.54      A16S
ATOM   9510  N7  A   A 453     108.267  69.002  27.961  1.00 69.54      A16S
ATOM   9511  C8  A   A 453     107.560  69.816  27.222  1.00 69.54      A16S
ATOM   9512  C2* A   A 453     106.131  69.595  23.955  1.00 53.04      A16S
ATOM   9513  O2* A   A 453     106.300  69.962  22.608  1.00 53.04      A16S
ATOM   9514  C3* A   A 453     104.816  70.125  24.505  1.00 53.04      A16S
ATOM   9515  O3* A   A 453     103.812  70.085  23.516  1.00 53.04      A16S
ATOM   9516  P   C   A 454     102.712  68.929  23.564  1.00 51.02      A16S
ATOM   9517  O1P C   A 454     101.857  69.083  22.345  1.00 69.00      A16S
ATOM   9518  O2P C   A 454     102.086  68.957  24.917  1.00 69.00      A16S
ATOM   9519  O5* C   A 454     103.569  67.600  23.379  1.00 51.02      A16S
ATOM   9520  C5* C   A 454     104.138  67.325  22.101  1.00 51.02      A16S
ATOM   9521  C4* C   A 454     105.020  66.116  22.144  1.00 51.02      A16S
ATOM   9522  O4* C   A 454     106.139  66.339  23.021  1.00 51.02      A16S
ATOM   9523  C1* C   A 454     106.629  65.097  23.467  1.00 51.02      A16S
ATOM   9524  N1  C   A 454     106.808  65.156  24.925  1.00 69.00      A16S
ATOM   9525  C6  C   A 454     105.907  65.811  25.718  1.00 69.00      A16S
ATOM   9526  C2  C   A 454     107.932  64.538  25.494  1.00 69.00      A16S
ATOM   9527  O2  C   A 454     108.726  63.920  24.756  1.00 69.00      A16S
ATOM   9528  N3  C   A 454     108.126  64.627  26.831  1.00 69.00      A16S
ATOM   9529  C4  C   A 454     107.250  65.289  27.589  1.00 69.00      A16S
ATOM   9530  N4  C   A 454     107.497  65.378  28.896  1.00 69.00      A16S
ATOM   9531  C5  C   A 454     106.087  65.899  27.040  1.00 69.00      A16S
ATOM   9532  C2* C   A 454     105.664  64.018  22.975  1.00 51.02      A16S
ATOM   9533  O2* C   A 454     106.207  63.442  21.803  1.00 51.02      A16S
ATOM   9534  C3* C   A 454     104.419  64.833  22.655  1.00 51.02      A16S
ATOM   9535  O3* C   A 454     103.638  64.211  21.654  1.00 51.02      A16S
ATOM   9536  P   C   A 455     102.108  63.850  21.969  1.00 75.04      A16S
ATOM   9537  O1P C   A 455     101.653  62.850  20.972  1.00 77.65      A16S
ATOM   9538  O2P C   A 455     101.383  65.132  22.103  1.00 77.65      A16S
ATOM   9539  O5* C   A 455     102.151  63.166  23.407  1.00 75.04      A16S
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ATOM   9540  C5* C   A 455     102.776  61.887  23.598  1.00 75.04      A16S
ATOM   9541  C4* C   A 455     102.836  61.548  25.069  1.00 75.04      A16S
ATOM   9542  O4* C   A 455     103.753  62.441  25.746  1.00 75.04      A16S
ATOM   9543  C1* C   A 455     103.273  62.731  27.045  1.00 75.04      A16S
ATOM   9544  N1   C   A 455     103.065  64.183  27.135  1.00 77.65      A16S
ATOM   9545  C6   C   A 455     102.733  64.909  26.026  1.00 77.65      A16S
ATOM   9546  C2   C   A 455     103.213  64.816  28.373  1.00 77.65      A16S
ATOM   9547  O2   C   A 455     103.507  64.141  29.362  1.00 77.65      A16S
ATOM   9548  N3   C   A 455     103.031  66.149  28.458  1.00 77.65      A16S
ATOM   9549  C4   C   A 455     102.713  66.848  27.369  1.00 77.65      A16S
ATOM   9550  N4   C   A 455     102.546  68.165  27.498  1.00 77.65      A16S
ATOM   9551  C5   C   A 455     102.552  66.229  26.096  1.00 77.65      A16S
ATOM   9552  C2* C   A 455     101.993  61.921  27.261  1.00 75.04      A16S
ATOM   9553  O2* C   A 455     102.319  60.717  27.921  1.00 75.04      A16S
ATOM   9554  C3* C   A 455     101.529  61.687  25.830  1.00 75.04      A16S
ATOM   9555  O3* C   A 455     100.745  60.512  25.701  1.00 75.04      A16S
ATOM   9556  P    C   A 456      99.149  60.630  25.679  1.00 91.63      A16S
ATOM   9557  O1P C   A 456      98.621  59.321  25.221  1.00105.25      A16S
ATOM   9558  O2P C   A 456      98.765  61.865  24.950  1.00105.25      A16S
ATOM   9559  O5* C   A 456      98.798  60.840  27.215  1.00 91.63      A16S
ATOM   9560  C5* C   A 456      99.075  59.808  28.180  1.00 91.63      A16S
ATOM   9561  C4* C   A 456      98.615  60.244  29.548  1.00 91.63      A16S
ATOM   9562  O4* C   A 456      99.497  61.280  30.043  1.00 91.63      A16S
ATOM   9563  C1* C   A 456      98.745  62.257  30.745  1.00 91.63      A16S
ATOM   9564  N1   C   A 456      98.941  63.559  30.078  1.00105.25      A16S
ATOM   9565  C6   C   A 456      99.292  63.627  28.757  1.00105.25      A16S
ATOM   9566  C2   C   A 456      98.764  64.735  30.822  1.00105.25      A16S
ATOM   9567  O2   C   A 456      98.441  64.652  32.019  1.00105.25      A16S
ATOM   9568  N3   C   A 456      98.949  65.930  30.221  1.00105.25      A16S
ATOM   9569  C4   C   A 456      99.297  65.983  28.936  1.00105.25      A16S
ATOM   9570  N4   C   A 456      99.473  67.188  28.389  1.00105.25      A16S
ATOM   9571  C5   C   A 456      99.481  64.805  28.153  1.00105.25      A16S
ATOM   9572  C2* C   A 456      97.287  61.793  30.781  1.00 91.63      A16S
ATOM   9573  O2* C   A 456      97.024  61.131  32.002  1.00 91.63      A16S
ATOM   9574  C3* C   A 456      97.231  60.868  29.573  1.00 91.63      A16S
ATOM   9575  O3* C   A 456      96.216  59.886  29.667  1.00 91.63      A16S
ATOM   9576  P    C   A 457      94.783  60.176  29.012  1.00 87.52      A16S
ATOM   9577  O1P C   A 457      93.959  58.949  29.178  1.00159.58      A16S
ATOM   9578  O2P C   A 457      94.981  60.746  27.654  1.00159.58      A16S
ATOM   9579  O5* C   A 457      94.193  61.323  29.942  1.00 87.52      A16S
ATOM   9580  C5* C   A 457      93.986  61.094  31.348  1.00 87.52      A16S
ATOM   9581  C4* C   A 457      93.397  62.322  31.991  1.00 87.52      A16S
ATOM   9582  O4* C   A 457      94.408  63.357  32.083  1.00 87.52      A16S
ATOM   9583  C1* C   A 457      93.817  64.623  31.847  1.00 87.52      A16S
ATOM   9584  N1   C   A 457      94.463  65.219  30.661  1.00159.58      A16S
ATOM   9585  C6   C   A 457      94.648  64.482  29.522  1.00159.58      A16S
ATOM   9586  C2   C   A 457      94.884  66.559  30.711  1.00159.58      A16S
ATOM   9587  O2   C   A 457      94.714  67.212  31.757  1.00159.58      A16S
ATOM   9588  N3   C   A 457      95.463  67.106  29.615  1.00159.58      A16S
ATOM   9589  C4   C   A 457      95.630  66.374  28.509  1.00159.58      A16S
ATOM   9590  N4   C   A 457      96.201  66.954  27.450  1.00159.58      A16S
ATOM   9591  C5   C   A 457      95.219  65.014  28.436  1.00159.58      A16S
ATOM   9592  C2* C   A 457      92.312  64.409  31.659  1.00 87.52      A16S
ATOM   9593  O2* C   A 457      91.625  64.618  32.876  1.00 87.52      A16S
ATOM   9594  C3* C   A 457      92.263  62.957  31.207  1.00 87.52      A16S
ATOM   9595  O3* C   A 457      91.016  62.339  31.472  1.00 87.52      A16S
ATOM   9596  P    C   A 458      89.799  62.546  30.445  1.00 87.00      A16S
ATOM   9597  O1P C   A 458      88.665  61.732  30.955  1.00149.83      A16S
ATOM   9598  O2P C   A 458      90.280  62.335  29.052  1.00149.83      A16S
ATOM   9599  O5* C   A 458      89.428  64.087  30.628  1.00 87.00      A16S
ATOM   9600  C5* C   A 458      88.806  64.553  31.841  1.00 87.00      A16S
ATOM   9601  C4* C   A 458      88.283  65.958  31.662  1.00 87.00      A16S
ATOM   9602  O4* C   A 458      89.366  66.919  31.721  1.00 87.00      A16S
ATOM   9603  C1* C   A 458      89.077  68.015  30.865  1.00 87.00      A16S
ATOM   9604  N1   C   A 458      90.176  68.170  29.886  1.00149.83      A16S
ATOM   9605  C6   C   A 458      91.180  67.244  29.800  1.00149.83      A16S
ATOM   9606  C2   C   A 458      90.167  69.280  29.022  1.00149.83      A16S
ATOM   9607  O2   C   A 458      89.266  70.128  29.132  1.00149.83      A16S
ATOM   9608  N3   C   A 458      91.139  69.396  28.089  1.00149.83      A16S
ATOM   9609  C4   C   A 458      92.092  68.469  27.999  1.00149.83      A16S
ATOM   9610  N4   C   A 458      93.005  68.604  27.040  1.00149.83      A16S
ATOM   9611  C5   C   A 458      92.146  67.354  28.881  1.00149.83      A16S
ATOM   9612  C2* C   A 458      87.722  67.744  30.201  1.00 87.00      A16S
ATOM   9613  O2* C   A 458      86.692  68.444  30.863  1.00 87.00      A16S
ATOM   9614  C3* C   A 458      87.593  66.236  30.343  1.00 87.00      A16S
ATOM   9615  O3* C   A 458      86.244  65.831  30.367  1.00 87.00      A16S
ATOM   9616  P    G   A 459      85.580  65.243  29.036  1.00 77.71      A16S
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ATOM	9617	O1P	G	A	459	84.141	65.021	29.314	1.00108.86	A16S
ATOM	9618	O2P	G	A	459	86.418	64.108	28.563	1.00108.86	A16S
ATOM	9619	O5*	G	A	459	85.700	66.441	27.993	1.00 77.71	A16S
ATOM	9620	C5*	G	A	459	85.166	67.741	28.297	1.00 77.71	A16S
ATOM	9621	C4*	G	A	459	85.778	68.789	27.394	1.00 77.71	A16S
ATOM	9622	O4*	G	A	459	87.188	68.961	27.701	1.00 77.71	A16S
ATOM	9623	C1*	G	A	459	87.903	69.251	26.509	1.00 77.71	A16S
ATOM	9624	N9	G	A	459	88.908	68.209	26.294	1.00108.86	A16S
ATOM	9625	C4	G	A	459	89.782	68.122	25.230	1.00108.86	A16S
ATOM	9626	N3	G	A	459	89.848	68.971	24.186	1.00108.86	A16S
ATOM	9627	C2	G	A	459	90.790	68.628	23.331	1.00108.86	A16S
ATOM	9628	N2	G	A	459	90.989	69.363	22.235	1.00108.86	A16S
ATOM	9629	N1	G	A	459	91.605	67.537	23.486	1.00108.86	A16S
ATOM	9630	C6	G	A	459	91.554	66.645	24.549	1.00108.86	A16S
ATOM	9631	O6	G	A	459	92.334	65.687	24.588	1.00108.86	A16S
ATOM	9632	C5	G	A	459	90.545	67.002	25.476	1.00108.86	A16S
ATOM	9633	N7	G	A	459	90.155	66.389	26.657	1.00108.86	A16S
ATOM	9634	C8	G	A	459	89.181	67.133	27.103	1.00108.86	A16S
ATOM	9635	C2*	G	A	459	86.888	69.335	25.368	1.00 77.71	A16S
ATOM	9636	O2*	G	A	459	86.519	70.688	25.182	1.00 77.71	A16S
ATOM	9637	C3*	G	A	459	85.745	68.483	25.905	1.00 77.71	A16S
ATOM	9638	O3*	G	A	459	84.506	68.839	25.319	1.00 77.71	A16S
ATOM	9639	P	A	A	460	83.502	67.690	24.836	1.00 97.85	A16S
ATOM	9640	O1P	A	A	460	82.245	68.355	24.418	1.00137.81	A16S
ATOM	9641	O2P	A	A	460	83.469	66.624	25.870	1.00137.81	A16S
ATOM	9642	O5*	A	A	460	84.173	67.098	23.526	1.00 97.85	A16S
ATOM	9643	C5*	A	A	460	85.366	66.308	23.599	1.00 97.85	A16S
ATOM	9644	C4*	A	A	460	85.506	65.491	22.345	1.00 97.85	A16S
ATOM	9645	O4*	A	A	460	84.915	66.238	21.265	1.00 97.85	A16S
ATOM	9646	C1*	A	A	460	85.732	66.149	20.124	1.00 97.85	A16S
ATOM	9647	N9	A	A	460	86.085	67.518	19.740	1.00137.81	A16S
ATOM	9648	C4	A	A	460	86.291	68.008	18.471	1.00137.81	A16S
ATOM	9649	N3	A	A	460	86.257	67.327	17.313	1.00137.81	A16S
ATOM	9650	C2	A	A	460	86.486	68.140	16.282	1.00137.81	A16S
ATOM	9651	N1	A	A	460	86.726	69.454	16.278	1.00137.81	A16S
ATOM	9652	C6	A	A	460	86.750	70.107	17.458	1.00137.81	A16S
ATOM	9653	N6	A	A	460	86.985	71.419	17.454	1.00137.81	A16S
ATOM	9654	C5	A	A	460	86.523	69.360	18.624	1.00137.81	A16S
ATOM	9655	N7	A	A	460	86.480	69.715	19.962	1.00137.81	A16S
ATOM	9656	C8	A	A	460	86.232	68.592	20.580	1.00137.81	A16S
ATOM	9657	C2*	A	A	460	86.873	65.163	20.420	1.00 97.85	A16S
ATOM	9658	O2*	A	A	460	86.513	63.888	19.924	1.00 97.85	A16S
ATOM	9659	C3*	A	A	460	86.941	65.179	21.947	1.00 97.85	A16S
ATOM	9660	O3*	A	A	460	87.294	63.885	22.469	1.00 97.85	A16S
ATOM	9661	P	C	A	461	88.787	63.592	23.001	1.00105.81	A16S
ATOM	9662	O1P	C	A	461	88.760	62.278	23.699	1.00180.82	A16S
ATOM	9663	O2P	C	A	461	89.277	64.791	23.726	1.00180.82	A16S
ATOM	9664	O5*	C	A	461	89.640	63.425	21.667	1.00105.81	A16S
ATOM	9665	C5*	C	A	461	90.184	64.571	20.976	1.00105.81	A16S
ATOM	9666	C4*	C	A	461	91.684	64.595	21.138	1.00105.81	A16S
ATOM	9667	O4*	C	A	461	92.176	63.242	20.992	1.00105.81	A16S
ATOM	9668	C1*	C	A	461	93.117	63.184	19.943	1.00105.81	A16S
ATOM	9669	N1	C	A	461	92.912	61.902	19.241	1.00180.82	A16S
ATOM	9670	C6	C	A	461	91.698	61.593	18.691	1.00180.82	A16S
ATOM	9671	C2	C	A	461	93.976	60.980	19.172	1.00180.82	A16S
ATOM	9672	O2	C	A	461	95.086	61.291	19.640	1.00180.82	A16S
ATOM	9673	N3	C	A	461	93.767	59.778	18.594	1.00180.82	A16S
ATOM	9674	C4	C	A	461	92.568	59.479	18.089	1.00180.82	A16S
ATOM	9675	N4	C	A	461	92.402	58.268	17.556	1.00180.82	A16S
ATOM	9676	C5	C	A	461	91.484	60.405	18.114	1.00180.82	A16S
ATOM	9677	C2*	C	A	461	92.925	64.453	19.107	1.00105.81	A16S
ATOM	9678	O2*	C	A	461	94.117	64.805	18.433	1.00105.81	A16S
ATOM	9679	C3*	C	A	461	92.483	65.464	20.170	1.00105.81	A16S
ATOM	9680	O3*	C	A	461	93.591	65.982	20.924	1.00105.81	A16S
ATOM	9681	P	G	A	462	94.512	67.176	20.348	1.00 65.70	A16S
ATOM	9682	O1P	G	A	462	95.656	66.523	19.669	1.00104.48	A16S
ATOM	9683	O2P	G	A	462	94.776	68.105	21.475	1.00104.48	A16S
ATOM	9684	O5*	G	A	462	93.616	67.947	19.271	1.00 65.70	A16S
ATOM	9685	C5*	G	A	462	94.050	68.058	17.895	1.00 65.70	A16S
ATOM	9686	C4*	G	A	462	93.445	69.278	17.219	1.00 65.70	A16S
ATOM	9687	O4*	G	A	462	92.009	69.116	17.076	1.00 65.70	A16S
ATOM	9688	C1*	G	A	462	91.374	70.385	17.162	1.00 65.70	A16S
ATOM	9689	N9	G	A	462	90.468	70.371	18.312	1.00104.48	A16S
ATOM	9690	C4	G	A	462	89.691	71.419	18.760	1.00104.48	A16S
ATOM	9691	N3	G	A	462	89.601	72.640	18.193	1.00104.48	A16S
ATOM	9692	C2	G	A	462	88.790	73.437	18.868	1.00104.48	A16S
ATOM	9693	N2	G	A	462	88.577	74.689	18.446	1.00104.48	A16S

ATOM	9694	N1	G	A	462	88.126	73.067	20.004	1.00104.48	A16S
ATOM	9695	C6	G	A	462	88.203	71.817	20.603	1.00104.48	A16S
ATOM	9696	O6	G	A	462	87.562	71.589	21.634	1.00104.48	A16S
ATOM	9697	C5	G	A	462	89.063	70.950	19.891	1.00104.48	A16S
ATOM	9698	N7	G	A	462	89.409	69.629	20.138	1.00104.48	A16S
ATOM	9699	C8	G	A	462	90.239	69.326	19.178	1.00104.48	A16S
ATOM	9700	C2*	G	A	462	92.474	71.444	17.303	1.00 65.70	A16S
ATOM	9701	O2*	G	A	462	92.798	71.991	16.037	1.00 65.70	A16S
ATOM	9702	C3*	G	A	462	93.623	70.632	17.890	1.00 65.70	A16S
ATOM	9703	O3*	G	A	462	94.863	71.240	17.566	1.00 65.70	A16S
ATOM	9704	P	A	A	463	95.554	72.239	18.614	1.00 49.85	A16S
ATOM	9705	O1P	A	A	463	96.739	72.805	17.932	1.00 99.03	A16S
ATOM	9706	O2P	A	A	463	95.716	71.545	19.916	1.00 99.03	A16S
ATOM	9707	O5*	A	A	463	94.496	73.407	18.818	1.00 49.85	A16S
ATOM	9708	C5*	A	A	463	94.422	74.522	17.907	1.00 49.85	A16S
ATOM	9709	C4*	A	A	463	93.580	75.621	18.510	1.00 49.85	A16S
ATOM	9710	O4*	A	A	463	92.204	75.174	18.613	1.00 49.85	A16S
ATOM	9711	C1*	A	A	463	91.622	75.694	19.798	1.00 49.85	A16S
ATOM	9712	N9	A	A	463	91.186	74.589	20.646	1.00 99.03	A16S
ATOM	9713	C4	A	A	463	90.267	74.699	21.658	1.00 99.03	A16S
ATOM	9714	N3	A	A	463	89.590	75.800	22.022	1.00 99.03	A16S
ATOM	9715	C2	A	A	463	88.806	75.540	23.060	1.00 99.03	A16S
ATOM	9716	N1	A	A	463	88.638	74.393	23.727	1.00 99.03	A16S
ATOM	9717	C6	A	A	463	89.339	73.309	23.337	1.00 99.03	A16S
ATOM	9718	N6	A	A	463	89.182	72.168	24.010	1.00 99.03	A16S
ATOM	9719	C5	A	A	463	90.200	73.451	22.243	1.00 99.03	A16S
ATOM	9720	N7	A	A	463	91.041	72.559	21.594	1.00 99.03	A16S
ATOM	9721	C8	A	A	463	91.597	73.279	20.653	1.00 99.03	A16S
ATOM	9722	C2*	A	A	463	92.676	76.527	20.527	1.00 49.85	A16S
ATOM	9723	O2*	A	A	463	92.484	77.903	20.308	1.00 49.85	A16S
ATOM	9724	C3*	A	A	463	93.969	75.994	19.932	1.00 49.85	A16S
ATOM	9725	O3*	A	A	463	94.975	76.981	19.973	1.00 49.85	A16S
ATOM	9726	P	G	A	474	95.884	77.124	21.284	1.00 64.83	A16S
ATOM	9727	O1P	G	A	474	96.628	78.402	21.154	1.00108.41	A16S
ATOM	9728	O2P	G	A	474	96.633	75.853	21.461	1.00108.41	A16S
ATOM	9729	O5*	G	A	474	94.841	77.248	22.484	1.00 64.83	A16S
ATOM	9730	C5*	G	A	474	94.037	78.426	22.661	1.00 64.83	A16S
ATOM	9731	C4*	G	A	474	93.138	78.261	23.861	1.00 64.83	A16S
ATOM	9732	O4*	G	A	474	92.141	77.239	23.596	1.00 64.83	A16S
ATOM	9733	C1*	G	A	474	91.894	76.491	24.779	1.00 64.83	A16S
ATOM	9734	N9	G	A	474	92.242	75.098	24.524	1.00108.41	A16S
ATOM	9735	C4	G	A	474	91.961	74.030	25.334	1.00108.41	A16S
ATOM	9736	N3	G	A	474	91.302	74.082	26.506	1.00108.41	A16S
ATOM	9737	C2	G	A	474	91.197	72.893	27.063	1.00108.41	A16S
ATOM	9738	N2	G	A	474	90.563	72.761	28.230	1.00108.41	A16S
ATOM	9739	N1	G	A	474	91.702	71.743	26.518	1.00108.41	A16S
ATOM	9740	C6	G	A	474	92.387	71.666	25.312	1.00108.41	A16S
ATOM	9741	O6	G	A	474	92.805	70.572	24.908	1.00108.41	A16S
ATOM	9742	C5	G	A	474	92.504	72.936	24.701	1.00108.41	A16S
ATOM	9743	N7	G	A	474	93.107	73.306	23.510	1.00108.41	A16S
ATOM	9744	C8	G	A	474	92.927	74.595	23.445	1.00108.41	A16S
ATOM	9745	C2*	G	A	474	92.754	77.080	25.898	1.00 64.83	A16S
ATOM	9746	O2*	G	A	474	92.008	77.963	26.702	1.00 64.83	A16S
ATOM	9747	C3*	G	A	474	93.851	77.778	25.109	1.00 64.83	A16S
ATOM	9748	O3*	G	A	474	94.440	78.833	25.835	1.00 64.83	A16S
ATOM	9749	P	G	A	475	95.708	78.525	26.761	1.00 78.23	A16S
ATOM	9750	O1P	G	A	475	96.128	79.824	27.344	1.00158.71	A16S
ATOM	9751	O2P	G	A	475	96.680	77.722	25.975	1.00158.71	A16S
ATOM	9752	O5*	G	A	475	95.120	77.603	27.923	1.00 78.23	A16S
ATOM	9753	C5*	G	A	475	94.156	78.126	28.858	1.00 78.23	A16S
ATOM	9754	C4*	G	A	475	93.573	77.017	29.700	1.00 78.23	A16S
ATOM	9755	O4*	G	A	475	92.931	76.054	28.829	1.00 78.23	A16S
ATOM	9756	C1*	G	A	475	93.115	74.746	29.345	1.00 78.23	A16S
ATOM	9757	N9	G	A	475	93.865	73.972	28.361	1.00158.71	A16S
ATOM	9758	C4	G	A	475	94.191	72.642	28.445	1.00158.71	A16S
ATOM	9759	N3	G	A	475	93.876	71.813	29.461	1.00158.71	A16S
ATOM	9760	C2	G	A	475	94.330	70.592	29.259	1.00158.71	A16S
ATOM	9761	N2	G	A	475	94.104	69.639	30.175	1.00158.71	A16S
ATOM	9762	N1	G	A	475	95.041	70.215	28.143	1.00158.71	A16S
ATOM	9763	C6	G	A	475	95.378	71.055	27.082	1.00158.71	A16S
ATOM	9764	O6	G	A	475	96.025	70.615	26.115	1.00158.71	A16S
ATOM	9765	C5	G	A	475	94.895	72.366	27.291	1.00158.71	A16S
ATOM	9766	N7	G	A	475	95.008	73.498	26.499	1.00158.71	A16S
ATOM	9767	C8	G	A	475	94.386	74.425	27.173	1.00158.71	A16S
ATOM	9768	C2*	G	A	475	93.853	74.867	30.679	1.00 78.23	A16S
ATOM	9769	O2*	G	A	475	92.919	74.871	31.740	1.00 78.23	A16S
ATOM	9770	C3*	G	A	475	94.567	76.201	30.509	1.00 78.23	A16S

ATOM	9771	O3*	G	A	475	94.856	76.810	31.755	1.00 78.23	A16S
ATOM	9772	P	G	A	476	96.373	76.850	32.283	1.00 88.05	A16S
ATOM	9773	O1P	G	A	476	96.499	78.017	33.193	1.00170.70	A16S
ATOM	9774	O2P	G	A	476	97.278	76.734	31.112	1.00170.70	A16S
ATOM	9775	O5*	G	A	476	96.523	75.530	33.154	1.00 88.05	A16S
ATOM	9776	C5*	G	A	476	95.828	75.393	34.387	1.00 88.05	A16S
ATOM	9777	C4*	G	A	476	95.814	73.952	34.798	1.00 88.05	A16S
ATOM	9778	O4*	G	A	476	95.146	73.176	33.769	1.00 88.05	A16S
ATOM	9779	C1*	G	A	476	95.754	71.899	33.665	1.00 88.05	A16S
ATOM	9780	N9	G	A	476	96.294	71.739	32.318	1.00170.70	A16S
ATOM	9781	C4	G	A	476	96.853	70.591	31.813	1.00170.70	A16S
ATOM	9782	N3	G	A	476	96.951	69.412	32.459	1.00170.70	A16S
ATOM	9783	C2	G	A	476	97.559	68.499	31.731	1.00170.70	A16S
ATOM	9784	N2	G	A	476	97.729	67.270	32.228	1.00170.70	A16S
ATOM	9785	N1	G	A	476	98.042	68.723	30.466	1.00170.70	A16S
ATOM	9786	C6	G	A	476	97.957	69.931	29.778	1.00170.70	A16S
ATOM	9787	O6	G	A	476	98.436	70.031	28.640	1.00170.70	A16S
ATOM	9788	C5	G	A	476	97.293	70.921	30.550	1.00170.70	A16S
ATOM	9789	N7	G	A	476	96.988	72.243	30.253	1.00170.70	A16S
ATOM	9790	C8	G	A	476	96.390	72.686	31.325	1.00170.70	A16S
ATOM	9791	C2*	G	A	476	96.875	71.830	34.705	1.00 88.05	A16S
ATOM	9792	O2*	G	A	476	96.423	71.167	35.868	1.00 88.05	A16S
ATOM	9793	C3*	G	A	476	97.183	73.306	34.926	1.00 88.05	A16S
ATOM	9794	O3*	G	A	476	97.788	73.560	36.188	1.00 88.05	A16S
ATOM	9795	P	G	A	477	99.383	73.418	36.350	1.00114.14	A16S
ATOM	9796	O1P	G	A	477	99.757	73.969	37.674	1.00121.52	A16S
ATOM	9797	O2P	G	A	477	100.046	73.937	35.126	1.00121.52	A16S
ATOM	9798	O5*	G	A	477	99.611	71.850	36.410	1.00114.14	A16S
ATOM	9799	C5*	G	A	477	98.960	71.053	37.404	1.00114.14	A16S
ATOM	9800	C4*	G	A	477	99.308	69.607	37.193	1.00114.14	A16S
ATOM	9801	O4*	G	A	477	98.742	69.154	35.933	1.00114.14	A16S
ATOM	9802	C1*	G	A	477	99.654	68.280	35.280	1.00114.14	A16S
ATOM	9803	N9	G	A	477	100.063	68.895	34.017	1.00121.52	A16S
ATOM	9804	C4	G	A	477	100.655	68.265	32.943	1.00121.52	A16S
ATOM	9805	N3	G	A	477	100.952	66.951	32.853	1.00121.52	A16S
ATOM	9806	C2	G	A	477	101.523	66.652	31.697	1.00121.52	A16S
ATOM	9807	N2	G	A	477	101.889	65.391	31.437	1.00121.52	A16S
ATOM	9808	N1	G	A	477	101.777	67.566	30.709	1.00121.52	A16S
ATOM	9809	C6	G	A	477	101.480	68.922	30.780	1.00121.52	A16S
ATOM	9810	O6	G	A	477	101.754	69.664	29.831	1.00121.52	A16S
ATOM	9811	C5	G	A	477	100.870	69.258	32.012	1.00121.52	A16S
ATOM	9812	N7	G	A	477	100.422	70.483	32.484	1.00121.52	A16S
ATOM	9813	C8	G	A	477	99.950	70.220	33.671	1.00121.52	A16S
ATOM	9814	C2*	G	A	477	100.845	68.078	36.219	1.00114.14	A16S
ATOM	9815	O2*	G	A	477	100.656	66.908	36.991	1.00114.14	A16S
ATOM	9816	C3*	G	A	477	100.798	69.356	37.046	1.00114.14	A16S
ATOM	9817	O3*	G	A	477	101.467	69.259	38.294	1.00114.14	A16S
ATOM	9818	P	A	A	478	103.034	69.604	38.377	1.00101.41	A16S
ATOM	9819	O1P	A	A	478	103.391	69.641	39.818	1.00138.30	A16S
ATOM	9820	O2P	A	A	478	103.303	70.796	37.526	1.00138.30	A16S
ATOM	9821	O5*	A	A	478	103.725	68.319	37.731	1.00101.41	A16S
ATOM	9822	C5*	A	A	478	103.479	67.015	38.296	1.00101.41	A16S
ATOM	9823	C4*	A	A	478	103.913	65.919	37.349	1.00101.41	A16S
ATOM	9824	O4*	A	A	478	103.151	65.983	36.117	1.00101.41	A16S
ATOM	9825	C1*	A	A	478	103.971	65.601	35.026	1.00101.41	A16S
ATOM	9826	N9	A	A	478	104.119	66.759	34.145	1.00138.30	A16S
ATOM	9827	C4	A	A	478	104.661	66.752	32.883	1.00138.30	A16S
ATOM	9828	N3	A	A	478	105.138	65.693	32.207	1.00138.30	A16S
ATOM	9829	C2	A	A	478	105.597	66.067	31.019	1.00138.30	A16S
ATOM	9830	N1	A	A	478	105.634	67.286	30.470	1.00138.30	A16S
ATOM	9831	C6	A	A	478	105.148	68.331	31.179	1.00138.30	A16S
ATOM	9832	N6	A	A	478	105.190	69.553	30.638	1.00138.30	A16S
ATOM	9833	C5	A	A	478	104.627	68.066	32.453	1.00138.30	A16S
ATOM	9834	N7	A	A	478	104.063	68.887	33.420	1.00138.30	A16S
ATOM	9835	C8	A	A	478	103.777	68.067	34.399	1.00138.30	A16S
ATOM	9836	C2*	A	A	478	105.320	65.169	35.598	1.00101.41	A16S
ATOM	9837	O2*	A	A	478	105.314	63.769	35.786	1.00101.41	A16S
ATOM	9838	C3*	A	A	478	105.359	65.954	36.903	1.00101.41	A16S
ATOM	9839	O3*	A	A	478	106.212	65.376	37.870	1.00101.41	A16S
ATOM	9840	P	C	A	479	107.747	65.833	37.935	1.00101.07	A16S
ATOM	9841	O1P	C	A	479	108.319	65.276	39.185	1.00 73.71	A16S
ATOM	9842	O2P	C	A	479	107.827	67.301	37.678	1.00 73.71	A16S
ATOM	9843	O5*	C	A	479	108.410	65.043	36.724	1.00101.07	A16S
ATOM	9844	C5*	C	A	479	108.388	63.602	36.705	1.00101.07	A16S
ATOM	9845	C4*	C	A	479	109.248	63.077	35.586	1.00101.07	A16S
ATOM	9846	O4*	C	A	479	108.574	63.248	34.312	1.00101.07	A16S
ATOM	9847	C1*	C	A	479	109.519	63.603	33.318	1.00101.07	A16S

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ATOM   9848  N1  C   A 479     109.220  64.975  32.863  1.00 73.71      A16S
ATOM   9849  C6  C   A 479     108.601  65.868  33.692  1.00 73.71      A16S
ATOM   9850  C2  C   A 479     109.592  65.357  31.568  1.00 73.71      A16S
ATOM   9851  O2  C   A 479     110.161  64.533  30.829  1.00 73.71      A16S
ATOM   9852  N3  C   A 479     109.329  66.613  31.156  1.00 73.71      A16S
ATOM   9853  C4  C   A 479     108.731  67.474  31.978  1.00 73.71      A16S
ATOM   9854  N4  C   A 479     108.502  68.706  31.529  1.00 73.71      A16S
ATOM   9855  C5  C   A 479     108.344  67.113  33.294  1.00 73.71      A16S
ATOM   9856  C2* C   A 479     110.903  63.536  33.962  1.00101.07      A16S
ATOM   9857  O2* C   A 479     111.464  62.256  33.762  1.00101.07      A16S
ATOM   9858  C3* C   A 479     110.567  63.801  35.418  1.00101.07      A16S
ATOM   9859  O3* C   A 479     111.559  63.354  36.317  1.00101.07      A16S
ATOM   9860  P   U   A 480     112.712  64.374  36.770  1.00 78.43      A16S
ATOM   9861  O1P U   A 480     113.584  63.684  37.757  1.00 90.52      A16S
ATOM   9862  O2P U   A 480     112.080  65.678  37.122  1.00 90.52      A16S
ATOM   9863  O5* U   A 480     113.550  64.582  35.434  1.00 78.43      A16S
ATOM   9864  C5* U   A 480     114.062  63.449  34.712  1.00 78.43      A16S
ATOM   9865  C4* U   A 480     114.530  63.867  33.343  1.00 78.43      A16S
ATOM   9866  O4* U   A 480     113.402  64.306  32.544  1.00 78.43      A16S
ATOM   9867  C1* U   A 480     113.813  65.347  31.678  1.00 78.43      A16S
ATOM   9868  N1  U   A 480     113.063  66.567  32.013  1.00 90.52      A16S
ATOM   9869  C6  U   A 480     112.740  66.887  33.307  1.00 90.52      A16S
ATOM   9870  C2  U   A 480     112.705  67.393  30.973  1.00 90.52      A16S
ATOM   9871  O2  U   A 480     112.961  67.138  29.814  1.00 90.52      A16S
ATOM   9872  N3  U   A 480     112.037  68.533  31.335  1.00 90.52      A16S
ATOM   9873  C4  U   A 480     111.694  68.922  32.605  1.00 90.52      A16S
ATOM   9874  O4  U   A 480     111.196  70.033  32.779  1.00 90.52      A16S
ATOM   9875  C5  U   A 480     112.084  68.005  33.632  1.00 90.52      A16S
ATOM   9876  C2* U   A 480     115.309  65.550  31.888  1.00 78.43      A16S
ATOM   9877  O2* U   A 480     116.024  64.731  30.986  1.00 78.43      A16S
ATOM   9878  C3* U   A 480     115.474  65.050  33.307  1.00 78.43      A16S
ATOM   9879  O3* U   A 480     116.800  64.691  33.591  1.00 78.43      A16S
ATOM   9880  P   G   A 481     117.598  65.514  34.706  1.00 75.34      A16S
ATOM   9881  O1P G   A 481     117.120  65.070  36.032  1.00 84.29      A16S
ATOM   9882  O2P G   A 481     117.539  66.949  34.362  1.00 84.29      A16S
ATOM   9883  O5* G   A 481     119.083  64.987  34.547  1.00 75.34      A16S
ATOM   9884  C5* G   A 481     120.184  65.880  34.669  1.00 75.34      A16S
ATOM   9885  C4* G   A 481     120.555  66.401  33.312  1.00 75.34      A16S
ATOM   9886  O4* G   A 481     119.595  67.379  32.859  1.00 75.34      A16S
ATOM   9887  C1* G   A 481     120.252  68.346  32.069  1.00 75.34      A16S
ATOM   9888  N9  G   A 481     119.953  69.667  32.595  1.00 84.29      A16S
ATOM   9889  C4  G   A 481     119.557  70.756  31.858  1.00 84.29      A16S
ATOM   9890  N3  G   A 481     119.484  70.816  30.516  1.00 84.29      A16S
ATOM   9891  C2  G   A 481     119.025  71.979  30.099  1.00 84.29      A16S
ATOM   9892  N2  G   A 481     118.933  72.227  28.790  1.00 84.29      A16S
ATOM   9893  N1  G   A 481     118.628  72.988  30.930  1.00 84.29      A16S
ATOM   9894  C6  G   A 481     118.673  72.944  32.318  1.00 84.29      A16S
ATOM   9895  O6  G   A 481     118.236  73.903  32.985  1.00 84.29      A16S
ATOM   9896  C5  G   A 481     119.222  71.715  32.779  1.00 84.29      A16S
ATOM   9897  N7  G   A 481     119.488  71.271  34.069  1.00 84.29      A16S
ATOM   9898  C8  G   A 481     119.935  70.056  33.907  1.00 84.29      A16S
ATOM   9899  C2* G   A 481     121.726  67.986  32.018  1.00 75.34      A16S
ATOM   9900  O2* G   A 481     121.851  67.200  30.858  1.00 75.34      A16S
ATOM   9901  C3* G   A 481     121.881  67.114  33.248  1.00 75.34      A16S
ATOM   9902  O3* G   A 481     122.840  66.121  32.997  1.00 75.34      A16S
ATOM   9903  P   A   A 482     124.000  65.869  34.048  1.00 43.56      A16S
ATOM   9904  O1P A   A 482     123.868  64.467  34.507  1.00 68.83      A16S
ATOM   9905  O2P A   A 482     123.992  66.973  35.045  1.00 68.83      A16S
ATOM   9906  O5* A   A 482     125.303  65.990  33.148  1.00 43.56      A16S
ATOM   9907  C5* A   A 482     125.826  64.849  32.453  1.00 43.56      A16S
ATOM   9908  C4* A   A 482     126.717  65.294  31.328  1.00 43.56      A16S
ATOM   9909  O4* A   A 482     125.937  65.570  30.148  1.00 43.56      A16S
ATOM   9910  C1* A   A 482     126.489  66.679  29.470  1.00 43.56      A16S
ATOM   9911  N9  A   A 482     125.459  67.709  29.401  1.00 68.83      A16S
ATOM   9912  C4  A   A 482     125.547  68.966  28.852  1.00 68.83      A16S
ATOM   9913  N3  A   A 482     126.608  69.525  28.250  1.00 68.83      A16S
ATOM   9914  C2  A   A 482     126.319  70.760  27.857  1.00 68.83      A16S
ATOM   9915  N1  A   A 482     125.179  71.450  27.991  1.00 68.83      A16S
ATOM   9916  C6  A   A 482     124.138  70.857  28.602  1.00 68.83      A16S
ATOM   9917  N6  A   A 482     123.005  71.543  28.751  1.00 68.83      A16S
ATOM   9918  C5  A   A 482     124.313  69.548  29.054  1.00 68.83      A16S
ATOM   9919  N7  A   A 482     123.463  68.673  29.697  1.00 68.83      A16S
ATOM   9920  C8  A   A 482     124.192  67.605  29.884  1.00 68.83      A16S
ATOM   9921  C2* A   A 482     127.741  67.124  30.227  1.00 43.56      A16S
ATOM   9922  O2* A   A 482     128.881  66.560  29.619  1.00 43.56      A16S
ATOM   9923  C3* A   A 482     127.483  66.565  31.615  1.00 43.56      A16S
ATOM   9924  O3* A   A 482     128.679  66.266  32.309  1.00 43.56      A16S
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ATOM   9925  P    C   A 483     129.082  67.127  33.604  1.00 50.14      A16S
ATOM   9926  O1P  C   A 483     130.394  66.599  34.092  1.00 53.34      A16S
ATOM   9927  O2P  C   A 483     127.896  67.135  34.517  1.00 53.34      A16S
ATOM   9928  O5*  C   A 483     129.343  68.600  33.037  1.00 50.14      A16S
ATOM   9929  C5*  C   A 483     130.348  68.823  32.027  1.00 50.14      A16S
ATOM   9930  C4*  C   A 483     130.032  70.056  31.220  1.00 50.14      A16S
ATOM   9931  O4*  C   A 483     128.703  69.951  30.663  1.00 50.14      A16S
ATOM   9932  C1*  C   A 483     128.084  71.224  30.656  1.00 50.14      A16S
ATOM   9933  N1   C   A 483     126.844  71.152  31.453  1.00 53.34      A16S
ATOM   9934  C6   C   A 483     126.648  70.135  32.345  1.00 53.34      A16S
ATOM   9935  C2   C   A 483     125.868  72.148  31.294  1.00 53.34      A16S
ATOM   9936  O2   C   A 483     126.062  73.061  30.478  1.00 53.34      A16S
ATOM   9937  N3   C   A 483     124.743  72.091  32.040  1.00 53.34      A16S
ATOM   9938  C4   C   A 483     124.575  71.101  32.921  1.00 53.34      A16S
ATOM   9939  N4   C   A 483     123.463  71.094  33.659  1.00 53.34      A16S
ATOM   9940  C5   C   A 483     125.543  70.075  33.092  1.00 53.34      A16S
ATOM   9941  C2*  C   A 483     129.099  72.236  31.188  1.00 50.14      A16S
ATOM   9942  O2*  C   A 483     129.745  72.832  30.089  1.00 50.14      A16S
ATOM   9943  C3*  C   A 483     130.035  71.351  31.999  1.00 50.14      A16S
ATOM   9944  O3*  C   A 483     131.355  71.864  32.002  1.00 50.14      A16S
ATOM   9945  P    G   A 484     132.004  72.426  33.363  1.00 67.53      A16S
ATOM   9946  O1P  G   A 484     131.688  73.875  33.435  1.00 65.99      A16S
ATOM   9947  O2P  G   A 484     133.425  71.980  33.440  1.00 65.99      A16S
ATOM   9948  O5*  G   A 484     131.213  71.677  34.518  1.00 67.53      A16S
ATOM   9949  C5*  G   A 484     131.680  71.739  35.870  1.00 67.53      A16S
ATOM   9950  C4*  G   A 484     130.591  71.308  36.810  1.00 67.53      A16S
ATOM   9951  O4*  G   A 484     129.524  72.293  36.796  1.00 67.53      A16S
ATOM   9952  C1*  G   A 484     128.271  71.665  36.587  1.00 67.53      A16S
ATOM   9953  N9   G   A 484     127.453  72.575  35.779  1.00 65.99      A16S
ATOM   9954  C4   G   A 484     126.111  72.858  35.947  1.00 65.99      A16S
ATOM   9955  N3   G   A 484     125.299  72.339  36.891  1.00 65.99      A16S
ATOM   9956  C2   G   A 484     124.062  72.795  36.788  1.00 65.99      A16S
ATOM   9957  N2   G   A 484     123.120  72.378  37.650  1.00 65.99      A16S
ATOM   9958  N1   G   A 484     123.655  73.690  35.837  1.00 65.99      A16S
ATOM   9959  C6   G   A 484     124.471  74.240  34.862  1.00 65.99      A16S
ATOM   9960  O6   G   A 484     124.002  75.044  34.057  1.00 65.99      A16S
ATOM   9961  C5   G   A 484     125.801  73.759  34.957  1.00 65.99      A16S
ATOM   9962  N7   G   A 484     126.917  74.046  34.184  1.00 65.99      A16S
ATOM   9963  C8   G   A 484     127.870  73.324  34.706  1.00 65.99      A16S
ATOM   9964  C2*  G   A 484     128.533  70.289  35.960  1.00 67.53      A16S
ATOM   9965  O2*  G   A 484     127.580  69.370  36.451  1.00 67.53      A16S
ATOM   9966  C3*  G   A 484     129.941  69.986  36.462  1.00 67.53      A16S
ATOM   9967  O3*  G   A 484     130.478  68.745  36.927  1.00 67.53      A16S
ATOM   9968  P    G   A 485     130.112  68.196  38.390  1.00 72.70      A16S
ATOM   9969  O1P  G   A 485     130.520  66.773  38.405  1.00 95.65      A16S
ATOM   9970  O2P  G   A 485     128.706  68.557  38.725  1.00 95.65      A16S
ATOM   9971  O5*  G   A 485     131.102  68.999  39.345  1.00 72.70      A16S
ATOM   9972  C5*  G   A 485     130.698  69.372  40.674  1.00 72.70      A16S
ATOM   9973  C4*  G   A 485     130.221  70.801  40.677  1.00 72.70      A16S
ATOM   9974  O4*  G   A 485     128.810  70.853  41.031  1.00 72.70      A16S
ATOM   9975  C1*  G   A 485     128.627  71.845  42.009  1.00 72.70      A16S
ATOM   9976  N9   G   A 485     127.469  71.519  42.827  1.00 95.65      A16S
ATOM   9977  C4   G   A 485     126.304  72.232  42.862  1.00 95.65      A16S
ATOM   9978  N3   G   A 485     126.034  73.327  42.132  1.00 95.65      A16S
ATOM   9979  C2   G   A 485     124.831  73.798  42.377  1.00 95.65      A16S
ATOM   9980  N2   G   A 485     124.403  74.874  41.722  1.00 95.65      A16S
ATOM   9981  N1   G   A 485     123.962  73.247  43.279  1.00 95.65      A16S
ATOM   9982  C6   G   A 485     124.221  72.119  44.051  1.00 95.65      A16S
ATOM   9983  O6   G   A 485     123.366  71.706  44.852  1.00 95.65      A16S
ATOM   9984  C5   G   A 485     125.509  71.594  43.783  1.00 95.65      A16S
ATOM   9985  N7   G   A 485     126.159  70.488  44.310  1.00 95.65      A16S
ATOM   9986  C8   G   A 485     127.318  70.481  43.711  1.00 95.65      A16S
ATOM   9987  C2*  G   A 485     129.948  71.918  42.760  1.00 72.70      A16S
ATOM   9988  O2*  G   A 485     130.012  73.117  43.493  1.00 72.70      A16S
ATOM   9989  C3*  G   A 485     130.941  71.778  41.608  1.00 72.70      A16S
ATOM   9990  O3*  G   A 485     131.069  73.016  40.902  1.00 72.70      A16S
ATOM   9991  P    U   A 486     131.887  74.245  41.546  1.00 86.86      A16S
ATOM   9992  O1P  U   A 486     133.175  73.735  42.096  1.00 52.90      A16S
ATOM   9993  O2P  U   A 486     130.970  75.014  42.426  1.00 52.90      A16S
ATOM   9994  O5*  U   A 486     132.182  75.187  40.296  1.00 86.86      A16S
ATOM   9995  C5*  U   A 486     133.172  74.840  39.324  1.00 86.86      A16S
ATOM   9996  C4*  U   A 486     132.747  75.325  37.966  1.00 86.86      A16S
ATOM   9997  O4*  U   A 486     131.618  74.547  37.503  1.00 86.86      A16S
ATOM   9998  C1*  U   A 486     130.781  75.361  36.705  1.00 86.86      A16S
ATOM   9999  N1   U   A 486     129.425  75.368  37.269  1.00 52.90      A16S
ATOM  10000  C6   U   A 486     129.128  74.788  38.477  1.00 52.90      A16S
ATOM  10001  C2   U   A 486     128.447  75.983  36.523  1.00 52.90      A16S
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ATOM  10002  O2  U   A 486     128.680  76.527  35.465  1.00 52.90      A16S
ATOM  10003  N3  U   A 486     127.190  75.943  37.063  1.00 52.90      A16S
ATOM  10004  C4  U   A 486     126.824  75.368  38.246  1.00 52.90      A16S
ATOM  10005  O4  U   A 486     125.645  75.343  38.553  1.00 52.90      A16S
ATOM  10006  C5  U   A 486     127.892  74.769  38.978  1.00 52.90      A16S
ATOM  10007  C2* U   A 486     131.378  76.764  36.664  1.00 86.86      A16S
ATOM  10008  O2* U   A 486     132.093  76.927  35.457  1.00 86.86      A16S
ATOM  10009  C3* U   A 486     132.255  76.759  37.906  1.00 86.86      A16S
ATOM  10010  O3* U   A 486     133.311  77.693  37.811  1.00 86.86      A16S
ATOM  10011  P   A   A 487     133.060  79.207  38.277  1.00 73.55      A16S
ATOM  10012  O1P A   A 487     134.278  79.973  37.901  1.00 68.15      A16S
ATOM  10013  O2P A   A 487     132.597  79.197  39.693  1.00 68.15      A16S
ATOM  10014  O5* A   A 487     131.849  79.706  37.372  1.00 73.55      A16S
ATOM  10015  C5* A   A 487     132.072  80.124  36.019  1.00 73.55      A16S
ATOM  10016  C4* A   A 487     130.939  80.999  35.558  1.00 73.55      A16S
ATOM  10017  O4* A   A 487     129.721  80.225  35.559  1.00 73.55      A16S
ATOM  10018  C1* A   A 487     128.640  81.029  35.985  1.00 73.55      A16S
ATOM  10019  N9  A   A 487     128.034  80.390  37.154  1.00 68.15      A16S
ATOM  10020  C4  A   A 487     126.785  80.649  37.653  1.00 68.15      A16S
ATOM  10021  N3  A   A 487     125.899  81.540  37.191  1.00 68.15      A16S
ATOM  10022  C2  A   A 487     124.793  81.509  37.917  1.00 68.15      A16S
ATOM  10023  N1  A   A 487     124.491  80.743  38.968  1.00 68.15      A16S
ATOM  10024  C6  A   A 487     125.404  79.857  39.401  1.00 68.15      A16S
ATOM  10025  N6  A   A 487     125.097  79.089  40.442  1.00 68.15      A16S
ATOM  10026  C5  A   A 487     126.622  79.797  38.724  1.00 68.15      A16S
ATOM  10027  N7  A   A 487     127.755  79.021  38.912  1.00 68.15      A16S
ATOM  10028  C8  A   A 487     128.564  79.411  37.960  1.00 68.15      A16S
ATOM  10029  C2* A   A 487     129.170  82.443  36.233  1.00 73.55      A16S
ATOM  10030  O2* A   A 487     128.897  83.251  35.109  1.00 73.55      A16S
ATOM  10031  C3* A   A 487     130.656  82.186  36.457  1.00 73.55      A16S
ATOM  10032  O3* A   A 487     131.465  83.287  36.079  1.00 73.55      A16S
ATOM  10033  P   C   A 488     131.992  84.304  37.195  1.00 74.53      A16S
ATOM  10034  O1P C   A 488     132.592  85.461  36.484  1.00 72.34      A16S
ATOM  10035  O2P C   A 488     132.809  83.543  38.177  1.00 72.34      A16S
ATOM  10036  O5* C   A 488     130.643  84.785  37.890  1.00 74.53      A16S
ATOM  10037  C5* C   A 488     129.653  85.512  37.139  1.00 74.53      A16S
ATOM  10038  C4* C   A 488     128.342  85.547  37.886  1.00 74.53      A16S
ATOM  10039  O4* C   A 488     127.791  84.210  37.955  1.00 74.53      A16S
ATOM  10040  C1* C   A 488     127.118  84.034  39.192  1.00 74.53      A16S
ATOM  10041  N1  C   A 488     127.800  82.978  39.964  1.00 72.34      A16S
ATOM  10042  C6  C   A 488     129.122  82.695  39.753  1.00 72.34      A16S
ATOM  10043  C2  C   A 488     127.071  82.264  40.927  1.00 72.34      A16S
ATOM  10044  O2  C   A 488     125.876  82.553  41.122  1.00 72.34      A16S
ATOM  10045  N3  C   A 488     127.686  81.283  41.622  1.00 72.34      A16S
ATOM  10046  C4  C   A 488     128.971  81.007  41.393  1.00 72.34      A16S
ATOM  10047  N4  C   A 488     129.531  80.016  42.086  1.00 72.34      A16S
ATOM  10048  C5  C   A 488     129.740  81.730  40.439  1.00 72.34      A16S
ATOM  10049  C2* C   A 488     127.160  85.366  39.934  1.00 74.53      A16S
ATOM  10050  O2* C   A 488     125.990  86.108  39.652  1.00 74.53      A16S
ATOM  10051  C3* C   A 488     128.402  86.004  39.338  1.00 74.53      A16S
ATOM  10052  O3* C   A 488     128.373  87.414  39.496  1.00 74.53      A16S
ATOM  10053  P   C   A 489     128.818  88.058  40.897  1.00 64.22      A16S
ATOM  10054  O1P C   A 489     128.614  89.516  40.755  1.00 63.89      A16S
ATOM  10055  O2P C   A 489     130.159  87.536  41.270  1.00 63.89      A16S
ATOM  10056  O5* C   A 489     127.755  87.486  41.936  1.00 64.22      A16S
ATOM  10057  C5* C   A 489     126.421  88.039  42.033  1.00 64.22      A16S
ATOM  10058  C4* C   A 489     125.771  87.600  43.328  1.00 64.22      A16S
ATOM  10059  O4* C   A 489     125.581  86.158  43.291  1.00 64.22      A16S
ATOM  10060  C1* C   A 489     125.869  85.600  44.567  1.00 64.22      A16S
ATOM  10061  N1  C   A 489     127.028  84.685  44.438  1.00 63.89      A16S
ATOM  10062  C6  C   A 489     127.852  84.744  43.348  1.00 63.89      A16S
ATOM  10063  C2  C   A 489     127.287  83.763  45.464  1.00 63.89      A16S
ATOM  10064  O2  C   A 489     126.510  83.697  46.423  1.00 63.89      A16S
ATOM  10065  N3  C   A 489     128.375  82.965  45.379  1.00 63.89      A16S
ATOM  10066  C4  C   A 489     129.185  83.052  44.322  1.00 63.89      A16S
ATOM  10067  N4  C   A 489     130.266  82.265  44.289  1.00 63.89      A16S
ATOM  10068  C5  C   A 489     128.929  83.956  43.250  1.00 63.89      A16S
ATOM  10069  C2* C   A 489     126.153  86.760  45.528  1.00 64.22      A16S
ATOM  10070  O2* C   A 489     124.986  87.113  46.251  1.00 64.22      A16S
ATOM  10071  C3* C   A 489     126.615  87.850  44.571  1.00 64.22      A16S
ATOM  10072  O3* C   A 489     126.443  89.155  45.113  1.00 64.22      A16S
ATOM  10073  P   G   A 490     127.591  89.781  46.054  1.00 77.28      A16S
ATOM  10074  O1P G   A 490     127.234  91.208  46.247  1.00 72.10      A16S
ATOM  10075  O2P G   A 490     128.938  89.427  45.534  1.00 72.10      A16S
ATOM  10076  O5* G   A 490     127.424  89.007  47.436  1.00 77.28      A16S
ATOM  10077  C5* G   A 490     126.327  89.300  48.319  1.00 77.28      A16S
ATOM  10078  C4* G   A 490     126.455  88.505  49.594  1.00 77.28      A16S
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ATOM  10079  O4* G   A 490     126.294  87.096  49.289  1.00 77.28      A16S
ATOM  10080  C1* G   A 490     127.155  86.326  50.117  1.00 77.28      A16S
ATOM  10081  N9  G   A 490     128.158  85.693  49.268  1.00 72.10      A16S
ATOM  10082  C4  G   A 490     129.014  84.683  49.631  1.00 72.10      A16S
ATOM  10083  N3  G   A 490     129.017  84.033  50.809  1.00 72.10      A16S
ATOM  10084  C2  G   A 490     129.995  83.144  50.880  1.00 72.10      A16S
ATOM  10085  N2  G   A 490     130.129  82.383  51.978  1.00 72.10      A16S
ATOM  10086  N1  G   A 490     130.910  82.931  49.881  1.00 72.10      A16S
ATOM  10087  C6  G   A 490     130.932  83.600  48.668  1.00 72.10      A16S
ATOM  10088  O6  G   A 490     131.825  83.362  47.855  1.00 72.10      A16S
ATOM  10089  C5  G   A 490     129.867  84.528  48.564  1.00 72.10      A16S
ATOM  10090  N7  G   A 490     129.511  85.372  47.524  1.00 72.10      A16S
ATOM  10091  C8  G   A 490     128.486  86.035  47.982  1.00 72.10      A16S
ATOM  10092  C2* G   A 490     127.859  87.291  51.076  1.00 77.28      A16S
ATOM  10093  O2* G   A 490     127.204  87.358  52.331  1.00 77.28      A16S
ATOM  10094  C3* G   A 490     127.806  88.591  50.289  1.00 77.28      A16S
ATOM  10095  O3* G   A 490     127.951  89.725  51.125  1.00 77.28      A16S
ATOM  10096  P   G   A 491     129.427  90.251  51.486  1.00 56.69      A16S
ATOM  10097  O1P G   A 491     129.276  91.504  52.265  1.00112.62      A16S
ATOM  10098  O2P G   A 491     130.237  90.254  50.245  1.00112.62      A16S
ATOM  10099  O5* G   A 491     130.018  89.136  52.456  1.00 56.69      A16S
ATOM  10100  C5* G   A 491     129.447  88.928  53.755  1.00 56.69      A16S
ATOM  10101  C4* G   A 491     130.209  87.869  54.498  1.00 56.69      A16S
ATOM  10102  O4* G   A 491     130.026  86.588  53.838  1.00 56.69      A16S
ATOM  10103  C1* G   A 491     131.220  85.821  53.943  1.00 56.69      A16S
ATOM  10104  N9  G   A 491     131.757  85.589  52.604  1.00112.62      A16S
ATOM  10105  C4  G   A 491     132.816  84.769  52.281  1.00112.62      A16S
ATOM  10106  N3  G   A 491     133.531  84.023  53.145  1.00112.62      A16S
ATOM  10107  C2  G   A 491     134.495  83.357  52.538  1.00112.62      A16S
ATOM  10108  N2  G   A 491     135.306  82.572  53.246  1.00112.62      A16S
ATOM  10109  N1  G   A 491     134.737  83.413  51.191  1.00112.62      A16S
ATOM  10110  C6  G   A 491     134.014  84.174  50.282  1.00112.62      A16S
ATOM  10111  O6  G   A 491     134.319  84.156  49.081  1.00112.62      A16S
ATOM  10112  C5  G   A 491     132.977  84.898  50.920  1.00112.62      A16S
ATOM  10113  N7  G   A 491     132.036  85.771  50.394  1.00112.62      A16S
ATOM  10114  C8  G   A 491     131.333  86.152  51.425  1.00112.62      A16S
ATOM  10115  C2* G   A 491     132.214  86.635  54.767  1.00 56.69      A16S
ATOM  10116  O2* G   A 491     132.154  86.226  56.119  1.00 56.69      A16S
ATOM  10117  C3* G   A 491     131.715  88.054  54.530  1.00 56.69      A16S
ATOM  10118  O3* G   A 491     132.160  88.967  55.516  1.00 56.69      A16S
ATOM  10119  P   G   A 492     133.585  89.697  55.323  1.00 61.99      A16S
ATOM  10120  O1P G   A 492     133.810  90.595  56.489  1.00113.57      A16S
ATOM  10121  O2P G   A 492     133.625  90.263  53.947  1.00113.57      A16S
ATOM  10122  O5* G   A 492     134.647  88.512  55.417  1.00 61.99      A16S
ATOM  10123  C5* G   A 492     134.741  87.720  56.605  1.00 61.99      A16S
ATOM  10124  C4* G   A 492     135.790  86.652  56.451  1.00 61.99      A16S
ATOM  10125  O4* G   A 492     135.417  85.720  55.409  1.00 61.99      A16S
ATOM  10126  C1* G   A 492     136.586  85.247  54.756  1.00 61.99      A16S
ATOM  10127  N9  G   A 492     136.496  85.580  53.335  1.00113.57      A16S
ATOM  10128  C4  G   A 492     137.321  85.120  52.336  1.00113.57      A16S
ATOM  10129  N3  G   A 492     138.361  84.277  52.493  1.00113.57      A16S
ATOM  10130  C2  G   A 492     138.964  84.023  51.351  1.00113.57      A16S
ATOM  10131  N2  G   A 492     140.016  83.201  51.325  1.00113.57      A16S
ATOM  10132  N1  G   A 492     138.578  84.555  50.149  1.00113.57      A16S
ATOM  10133  C6  G   A 492     137.509  85.424  49.964  1.00113.57      A16S
ATOM  10134  O6  G   A 492     137.243  85.846  48.834  1.00113.57      A16S
ATOM  10135  C5  G   A 492     136.855  85.704  51.180  1.00113.57      A16S
ATOM  10136  N7  G   A 492     135.759  86.512  51.442  1.00113.57      A16S
ATOM  10137  C8  G   A 492     135.583  86.410  52.730  1.00113.57      A16S
ATOM  10138  C2* G   A 492     137.795  85.895  55.433  1.00 61.99      A16S
ATOM  10139  O2* G   A 492     138.334  85.012  56.400  1.00 61.99      A16S
ATOM  10140  C3* G   A 492     137.169  87.135  56.055  1.00 61.99      A16S
ATOM  10141  O3* G   A 492     137.888  87.566  57.189  1.00 61.99      A16S
ATOM  10142  P   G   A 494     138.900  88.794  57.056  1.00 68.17      A16S
ATOM  10143  O1P G   A 494     139.587  88.942  58.368  1.00 75.95      A16S
ATOM  10144  O2P G   A 494     138.119  89.930  56.495  1.00 75.95      A16S
ATOM  10145  O5* G   A 494     139.969  88.273  55.998  1.00 68.17      A16S
ATOM  10146  C5* G   A 494     140.846  87.179  56.333  1.00 68.17      A16S
ATOM  10147  C4* G   A 494     141.677  86.779  55.137  1.00 68.17      A16S
ATOM  10148  O4* G   A 494     140.825  86.180  54.132  1.00 68.17      A16S
ATOM  10149  C1* G   A 494     141.248  86.578  52.841  1.00 68.17      A16S
ATOM  10150  N9  G   A 494     140.164  87.362  52.260  1.00 75.95      A16S
ATOM  10151  C4  G   A 494     139.933  87.624  50.930  1.00 75.95      A16S
ATOM  10152  N3  G   A 494     140.660  87.174  49.891  1.00 75.95      A16S
ATOM  10153  C2  G   A 494     140.194  87.621  48.736  1.00 75.95      A16S
ATOM  10154  N2  G   A 494     140.793  87.277  47.591  1.00 75.95      A16S
ATOM  10155  N1  G   A 494     139.108  88.439  48.614  1.00 75.95      A16S
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ATOM	10156	C6	G	A	494	138.347	88.912	49.667	1.00	75.95	A16S
ATOM	10157	O6	G	A	494	137.387	89.654	49.446	1.00	75.95	A16S
ATOM	10158	C5	G	A	494	138.828	88.442	50.908	1.00	75.95	A16S
ATOM	10159	N7	G	A	494	138.357	88.667	52.190	1.00	75.95	A16S
ATOM	10160	C8	G	A	494	139.175	88.007	52.956	1.00	75.95	A16S
ATOM	10161	C2*	G	A	494	142.541	87.383	53.016	1.00	68.17	A16S
ATOM	10162	O2*	G	A	494	143.662	86.528	52.932	1.00	68.17	A16S
ATOM	10163	C3*	G	A	494	142.386	87.915	54.429	1.00	68.17	A16S
ATOM	10164	O3*	G	A	494	143.647	88.168	55.023	1.00	68.17	A16S
ATOM	10165	P	U	A	495	144.483	89.461	54.581	1.00	64.81	A16S
ATOM	10166	O1P	U	A	495	145.088	90.085	55.787	1.00	79.04	A16S
ATOM	10167	O2P	U	A	495	143.603	90.277	53.701	1.00	79.04	A16S
ATOM	10168	O5*	U	A	495	145.666	88.848	53.713	1.00	64.81	A16S
ATOM	10169	C5*	U	A	495	146.573	87.890	54.282	1.00	64.81	A16S
ATOM	10170	C4*	U	A	495	147.545	87.404	53.235	1.00	64.81	A16S
ATOM	10171	O4*	U	A	495	146.835	86.652	52.219	1.00	64.81	A16S
ATOM	10172	C1*	U	A	495	147.384	86.932	50.945	1.00	64.81	A16S
ATOM	10173	N1	U	A	495	146.334	87.558	50.124	1.00	79.04	A16S
ATOM	10174	C6	U	A	495	145.297	88.254	50.702	1.00	79.04	A16S
ATOM	10175	C2	U	A	495	146.423	87.440	48.755	1.00	79.04	A16S
ATOM	10176	O2	U	A	495	147.309	86.818	48.199	1.00	79.04	A16S
ATOM	10177	N3	U	A	495	145.430	88.077	48.055	1.00	79.04	A16S
ATOM	10178	C4	U	A	495	144.380	88.799	48.574	1.00	79.04	A16S
ATOM	10179	O4	U	A	495	143.604	89.373	47.812	1.00	79.04	A16S
ATOM	10180	C5	U	A	495	144.346	88.859	49.992	1.00	79.04	A16S
ATOM	10181	C2*	U	A	495	148.600	87.840	51.153	1.00	64.81	A16S
ATOM	10182	O2*	U	A	495	149.774	87.056	51.214	1.00	64.81	A16S
ATOM	10183	C3*	U	A	495	148.267	88.504	52.483	1.00	64.81	A16S
ATOM	10184	O3*	U	A	495	149.423	88.902	53.198	1.00	64.81	A16S
ATOM	10185	P	A	A	496	149.919	90.425	53.129	1.00	89.82	A16S
ATOM	10186	O1P	A	A	496	150.920	90.579	54.211	1.00	65.57	A16S
ATOM	10187	O2P	A	A	496	148.750	91.330	53.082	1.00	65.57	A16S
ATOM	10188	O5*	A	A	496	150.684	90.528	51.736	1.00	89.82	A16S
ATOM	10189	C5*	A	A	496	151.687	91.531	51.540	1.00	89.82	A16S
ATOM	10190	C4*	A	A	496	152.145	91.554	50.105	1.00	89.82	A16S
ATOM	10191	O4*	A	A	496	151.012	91.752	49.226	1.00	89.82	A16S
ATOM	10192	C1*	A	A	496	151.251	92.878	48.418	1.00	89.82	A16S
ATOM	10193	N9	A	A	496	149.977	93.493	48.080	1.00	65.57	A16S
ATOM	10194	C4	A	A	496	149.475	93.543	46.806	1.00	65.57	A16S
ATOM	10195	N3	A	A	496	150.055	93.072	45.689	1.00	65.57	A16S
ATOM	10196	C2	A	A	496	149.278	93.278	44.635	1.00	65.57	A16S
ATOM	10197	N1	A	A	496	148.078	93.858	44.572	1.00	65.57	A16S
ATOM	10198	C6	A	A	496	147.524	94.328	45.713	1.00	65.57	A16S
ATOM	10199	N6	A	A	496	146.326	94.915	45.644	1.00	65.57	A16S
ATOM	10200	C5	A	A	496	148.252	94.168	46.906	1.00	65.57	A16S
ATOM	10201	N7	A	A	496	147.990	94.524	48.223	1.00	65.57	A16S
ATOM	10202	C8	A	A	496	149.044	94.102	48.877	1.00	65.57	A16S
ATOM	10203	C2*	A	A	496	152.240	93.749	49.183	1.00	89.82	A16S
ATOM	10204	O2*	A	A	496	152.935	94.623	48.316	1.00	89.82	A16S
ATOM	10205	C3*	A	A	496	153.134	92.681	49.802	1.00	89.82	A16S
ATOM	10206	O3*	A	A	496	154.081	92.295	48.801	1.00	89.82	A16S
ATOM	10207	P	A	A	497	154.649	90.791	48.755	1.00	80.67	A16S
ATOM	10208	O1P	A	A	497	154.529	90.188	50.105	1.00	78.00	A16S
ATOM	10209	O2P	A	A	497	155.976	90.848	48.104	1.00	78.00	A16S
ATOM	10210	O5*	A	A	497	153.634	90.040	47.775	1.00	80.67	A16S
ATOM	10211	C5*	A	A	497	153.760	88.624	47.531	1.00	80.67	A16S
ATOM	10212	C4*	A	A	497	152.913	88.193	46.347	1.00	80.67	A16S
ATOM	10213	O4*	A	A	497	151.501	88.361	46.647	1.00	80.67	A16S
ATOM	10214	C1*	A	A	497	150.869	88.992	45.559	1.00	80.67	A16S
ATOM	10215	N9	A	A	497	149.692	89.724	46.035	1.00	78.00	A16S
ATOM	10216	C4	A	A	497	148.628	90.115	45.256	1.00	78.00	A16S
ATOM	10217	N3	A	A	497	148.479	89.943	43.933	1.00	78.00	A16S
ATOM	10218	C2	A	A	497	147.319	90.446	43.522	1.00	78.00	A16S
ATOM	10219	N1	A	A	497	146.363	91.046	44.228	1.00	78.00	A16S
ATOM	10220	C6	A	A	497	146.541	91.193	45.558	1.00	78.00	A16S
ATOM	10221	N6	A	A	497	145.576	91.770	46.269	1.00	78.00	A16S
ATOM	10222	C5	A	A	497	147.733	90.720	46.115	1.00	78.00	A16S
ATOM	10223	N7	A	A	497	148.227	90.734	47.410	1.00	78.00	A16S
ATOM	10224	C8	A	A	497	149.390	90.136	47.310	1.00	78.00	A16S
ATOM	10225	C2*	A	A	497	151.958	89.817	44.881	1.00	80.67	A16S
ATOM	10226	O2*	A	A	497	151.590	90.098	43.544	1.00	80.67	A16S
ATOM	10227	C3*	A	A	497	153.160	88.879	45.003	1.00	80.67	A16S
ATOM	10228	O3*	A	A	497	153.081	87.899	43.955	1.00	80.67	A16S
ATOM	10229	P	U	A	498	154.428	87.282	43.300	1.00	66.96	A16S
ATOM	10230	O1P	U	A	498	154.047	85.904	42.866	1.00	61.32	A16S
ATOM	10231	O2P	U	A	498	155.594	87.480	44.211	1.00	61.32	A16S
ATOM	10232	O5*	U	A	498	154.709	88.152	41.989	1.00	66.96	A16S

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ATOM  10233  C5* U   A 498     153.974  87.908  40.775  1.00 66.96      A16S
ATOM  10234  C4* U   A 498     154.875  87.322  39.714  1.00 66.96      A16S
ATOM  10235  O4* U   A 498     154.052  86.555  38.807  1.00 66.96      A16S
ATOM  10236  C1* U   A 498     154.544  86.687  37.491  1.00 66.96      A16S
ATOM  10237  N1   U   A 498     153.494  87.316  36.675  1.00 61.32      A16S
ATOM  10238  C6   U   A 498     152.371  87.848  37.258  1.00 61.32      A16S
ATOM  10239  C2   U   A 498     153.663  87.356  35.304  1.00 61.32      A16S
ATOM  10240  O2   U   A 498     154.644  86.919  34.742  1.00 61.32      A16S
ATOM  10241  N3   U   A 498     152.634  87.938  34.614  1.00 61.32      A16S
ATOM  10242  C4   U   A 498     151.487  88.480  35.138  1.00 61.32      A16S
ATOM  10243  O4   U   A 498     150.655  88.964  34.384  1.00 61.32      A16S
ATOM  10244  C5   U   A 498     151.390  88.413  36.554  1.00 61.32      A16S
ATOM  10245  C2* U   A 498     155.837  87.501  37.556  1.00 66.96      A16S
ATOM  10246  O2* U   A 498     156.934  86.617  37.655  1.00 66.96      A16S
ATOM  10247  C3* U   A 498     155.644  88.298  38.834  1.00 66.96      A16S
ATOM  10248  O3* U   A 498     156.913  88.644  39.373  1.00 66.96      A16S
ATOM  10249  P    A   A 499     157.683  89.954  38.831  1.00 53.79      A16S
ATOM  10250  O1P A   A 499     159.021  90.026  39.494  1.00 46.74      A16S
ATOM  10251  O2P A   A 499     156.750  91.102  38.949  1.00 46.74      A16S
ATOM  10252  O5* A   A 499     157.905  89.688  37.273  1.00 53.79      A16S
ATOM  10253  C5* A   A 499     159.045  88.943  36.786  1.00 53.79      A16S
ATOM  10254  C4* A   A 499     159.362  89.332  35.355  1.00 53.79      A16S
ATOM  10255  O4* A   A 499     158.182  89.139  34.535  1.00 53.79      A16S
ATOM  10256  C1* A   A 499     157.926  90.317  33.809  1.00 53.79      A16S
ATOM  10257  N9   A   A 499     156.502  90.388  33.494  1.00 46.74      A16S
ATOM  10258  C4   A   A 499     155.975  90.642  32.249  1.00 46.74      A16S
ATOM  10259  N3   A   A 499     156.647  90.871  31.109  1.00 46.74      A16S
ATOM  10260  C2   A   A 499     155.803  91.060  30.101  1.00 46.74      A16S
ATOM  10261  N1   A   A 499     154.467  91.055  30.100  1.00 46.74      A16S
ATOM  10262  C6   A   A 499     153.823  90.832  31.262  1.00 46.74      A16S
ATOM  10263  N6   A   A 499     152.488  90.851  31.267  1.00 46.74      A16S
ATOM  10264  C5   A   A 499     154.604  90.602  32.405  1.00 46.74      A16S
ATOM  10265  N7   A   A 499     154.272  90.322  33.723  1.00 46.74      A16S
ATOM  10266  C8   A   A 499     155.431  90.209  34.326  1.00 46.74      A16S
ATOM  10267  C2* A   A 499     158.516  91.440  34.653  1.00 53.79      A16S
ATOM  10268  O2* A   A 499     158.767  92.585  33.869  1.00 53.79      A16S
ATOM  10269  C3* A   A 499     159.798  90.777  35.131  1.00 53.79      A16S
ATOM  10270  O3* A   A 499     160.673  90.833  34.011  1.00 53.79      A16S
ATOM  10271  P    G   A 500     162.189  90.329  34.131  1.00 48.73      A16S
ATOM  10272  O1P G   A 500     162.298  89.416  35.294  1.00 57.56      A16S
ATOM  10273  O2P G   A 500     163.097  91.500  34.037  1.00 57.56      A16S
ATOM  10274  O5* G   A 500     162.371  89.475  32.805  1.00 48.73      A16S
ATOM  10275  C5* G   A 500     161.677  88.229  32.640  1.00 48.73      A16S
ATOM  10276  C4* G   A 500     160.906  88.217  31.343  1.00 48.73      A16S
ATOM  10277  O4* G   A 500     159.785  89.129  31.427  1.00 48.73      A16S
ATOM  10278  C1* G   A 500     159.549  89.709  30.153  1.00 48.73      A16S
ATOM  10279  N9   G   A 500     159.761  91.146  30.266  1.00 57.56      A16S
ATOM  10280  C4   G   A 500     159.278  92.118  29.426  1.00 57.56      A16S
ATOM  10281  N3   G   A 500     158.536  91.915  28.318  1.00 57.56      A16S
ATOM  10282  C2   G   A 500     158.193  93.052  27.742  1.00 57.56      A16S
ATOM  10283  N2   G   A 500     157.455  93.039  26.632  1.00 57.56      A16S
ATOM  10284  N1   G   A 500     158.547  94.285  28.216  1.00 57.56      A16S
ATOM  10285  C6   G   A 500     159.303  94.512  29.359  1.00 57.56      A16S
ATOM  10286  O6   G   A 500     159.541  95.665  29.723  1.00 57.56      A16S
ATOM  10287  C5   G   A 500     159.690  93.307  29.973  1.00 57.56      A16S
ATOM  10288  N7   G   A 500     160.448  93.089  31.110  1.00 57.56      A16S
ATOM  10289  C8   G   A 500     160.468  91.795  31.242  1.00 57.56      A16S
ATOM  10290  C2* G   A 500     160.534  89.082  29.172  1.00 48.73      A16S
ATOM  10291  O2* G   A 500     159.940  87.961  28.545  1.00 48.73      A16S
ATOM  10292  C3* G   A 500     161.655  88.673  30.105  1.00 48.73      A16S
ATOM  10293  O3* G   A 500     162.444  87.671  29.526  1.00 48.73      A16S
ATOM  10294  P    C   A 501     163.734  88.101  28.692  1.00 38.13      A16S
ATOM  10295  O1P C   A 501     164.481  86.852  28.415  1.00 45.12      A16S
ATOM  10296  O2P C   A 501     164.411  89.222  29.390  1.00 45.12      A16S
ATOM  10297  O5* C   A 501     163.138  88.732  27.353  1.00 38.13      A16S
ATOM  10298  C5* C   A 501     162.644  87.897  26.284  1.00 38.13      A16S
ATOM  10299  C4* C   A 501     162.298  88.736  25.073  1.00 38.13      A16S
ATOM  10300  O4* C   A 501     161.217  89.649  25.401  1.00 38.13      A16S
ATOM  10301  C1* C   A 501     161.389  90.866  24.694  1.00 38.13      A16S
ATOM  10302  N1   C   A 501     161.514  91.959  25.672  1.00 45.12      A16S
ATOM  10303  C6   C   A 501     162.131  91.750  26.873  1.00 45.12      A16S
ATOM  10304  C2   C   A 501     161.013  93.230  25.348  1.00 45.12      A16S
ATOM  10305  O2   C   A 501     160.408  93.388  24.280  1.00 45.12      A16S
ATOM  10306  N3   C   A 501     161.197  94.251  26.212  1.00 45.12      A16S
ATOM  10307  C4   C   A 501     161.830  94.039  27.365  1.00 45.12      A16S
ATOM  10308  N4   C   A 501     162.027  95.079  28.171  1.00 45.12      A16S
ATOM  10309  C5   C   A 501     162.304  92.750  27.740  1.00 45.12      A16S
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ATOM	10310	C2*	C	A 501	162.642	90.729	23.824	1.00	38.13	A16S
ATOM	10311	O2*	C	A 501	162.307	90.351	22.506	1.00	38.13	A16S
ATOM	10312	C3*	C	A 501	163.405	89.631	24.547	1.00	38.13	A16S
ATOM	10313	O3*	C	A 501	164.274	88.959	23.658	1.00	38.13	A16S
ATOM	10314	P	G	A 502	165.678	89.634	23.285	1.00	38.13	A16S
ATOM	10315	O1P	G	A 502	166.476	88.680	22.497	1.00	51.86	A16S
ATOM	10316	O2P	G	A 502	166.247	90.185	24.535	1.00	51.86	A16S
ATOM	10317	O5*	G	A 502	165.268	90.857	22.351	1.00	38.13	A16S
ATOM	10318	C5*	G	A 502	164.687	90.635	21.059	1.00	38.13	A16S
ATOM	10319	C4*	G	A 502	164.355	91.947	20.393	1.00	38.13	A16S
ATOM	10320	O4*	G	A 502	163.267	92.597	21.092	1.00	38.13	A16S
ATOM	10321	C1*	G	A 502	163.446	94.007	21.044	1.00	38.13	A16S
ATOM	10322	N9	G	A 502	163.555	94.510	22.408	1.00	51.86	A16S
ATOM	10323	C4	G	A 502	163.478	95.827	22.809	1.00	51.86	A16S
ATOM	10324	N3	G	A 502	163.245	96.888	22.012	1.00	51.86	A16S
ATOM	10325	C2	G	A 502	163.249	98.012	22.687	1.00	51.86	A16S
ATOM	10326	N2	G	A 502	163.010	99.158	22.067	1.00	51.86	A16S
ATOM	10327	N1	G	A 502	163.486	98.096	24.026	1.00	51.86	A16S
ATOM	10328	C6	G	A 502	163.749	97.020	24.862	1.00	51.86	A16S
ATOM	10329	O6	G	A 502	164.002	97.208	26.059	1.00	51.86	A16S
ATOM	10330	C5	G	A 502	163.710	95.807	24.163	1.00	51.86	A16S
ATOM	10331	N7	G	A 502	163.891	94.507	24.616	1.00	51.86	A16S
ATOM	10332	C8	G	A 502	163.788	93.773	23.544	1.00	51.86	A16S
ATOM	10333	C2*	G	A 502	164.726	94.293	20.264	1.00	38.13	A16S
ATOM	10334	O2*	G	A 502	164.409	94.614	18.936	1.00	38.13	A16S
ATOM	10335	C3*	G	A 502	165.468	92.975	20.389	1.00	38.13	A16S
ATOM	10336	O3*	G	A 502	166.360	92.794	19.318	1.00	38.13	A16S
ATOM	10337	P	C	A 503	167.854	93.339	19.461	1.00	37.07	A16S
ATOM	10338	O1P	C	A 503	168.626	92.842	18.300	1.00	50.18	A16S
ATOM	10339	O2P	C	A 503	168.297	92.987	20.847	1.00	50.18	A16S
ATOM	10340	O5*	C	A 503	167.686	94.916	19.330	1.00	37.07	A16S
ATOM	10341	C5*	C	A 503	167.116	95.496	18.147	1.00	37.07	A16S
ATOM	10342	C4*	C	A 503	166.715	96.931	18.404	1.00	37.07	A16S
ATOM	10343	O4*	C	A 503	165.741	96.966	19.479	1.00	37.07	A16S
ATOM	10344	C1*	C	A 503	165.915	98.149	20.245	1.00	37.07	A16S
ATOM	10345	N1	C	A 503	166.238	97.789	21.633	1.00	50.18	A16S
ATOM	10346	C6	C	A 503	166.392	96.491	22.017	1.00	50.18	A16S
ATOM	10347	C2	C	A 503	166.397	98.813	22.551	1.00	50.18	A16S
ATOM	10348	O2	C	A 503	166.251	99.978	22.169	1.00	50.18	A16S
ATOM	10349	N3	C	A 503	166.703	98.517	23.826	1.00	50.18	A16S
ATOM	10350	C4	C	A 503	166.845	97.251	24.194	1.00	50.18	A16S
ATOM	10351	N4	C	A 503	167.131	97.004	25.467	1.00	50.18	A16S
ATOM	10352	C5	C	A 503	166.695	96.181	23.276	1.00	50.18	A16S
ATOM	10353	C2*	C	A 503	167.057	98.947	19.625	1.00	37.07	A16S
ATOM	10354	O2*	C	A 503	166.518	99.938	18.789	1.00	37.07	A16S
ATOM	10355	C3*	C	A 503	167.821	97.867	18.875	1.00	37.07	A16S
ATOM	10356	O3*	C	A 503	168.581	98.418	17.809	1.00	37.07	A16S
ATOM	10357	P	C	A 504	170.119	98.794	18.056	1.00	43.20	A16S
ATOM	10358	O1P	C	A 504	170.785	98.964	16.738	1.00	42.12	A16S
ATOM	10359	O2P	C	A 504	170.651	97.807	19.018	1.00	42.12	A16S
ATOM	10360	O5*	C	A 504	170.056	100.198	18.801	1.00	43.20	A16S
ATOM	10361	C5*	C	A 504	169.484	101.356	18.169	1.00	43.20	A16S
ATOM	10362	C4*	C	A 504	169.618	102.560	19.072	1.00	43.20	A16S
ATOM	10363	O4*	C	A 504	168.803	102.374	20.252	1.00	43.20	A16S
ATOM	10364	C1*	C	A 504	169.472	102.894	21.384	1.00	43.20	A16S
ATOM	10365	N1	C	A 504	169.685	101.800	22.337	1.00	42.12	A16S
ATOM	10366	C6	C	A 504	169.836	100.523	21.898	1.00	42.12	A16S
ATOM	10367	C2	C	A 504	169.719	102.081	23.695	1.00	42.12	A16S
ATOM	10368	O2	C	A 504	169.605	103.246	24.071	1.00	42.12	A16S
ATOM	10369	N3	C	A 504	169.875	101.081	24.573	1.00	42.12	A16S
ATOM	10370	C4	C	A 504	170.005	99.836	24.138	1.00	42.12	A16S
ATOM	10371	N4	C	A 504	170.146	98.865	25.045	1.00	42.12	A16S
ATOM	10372	C5	C	A 504	169.994	99.520	22.755	1.00	42.12	A16S
ATOM	10373	C2*	C	A 504	170.770	103.538	20.909	1.00	43.20	A16S
ATOM	10374	O2*	C	A 504	170.552	104.924	20.733	1.00	43.20	A16S
ATOM	10375	C3*	C	A 504	171.017	102.795	19.604	1.00	43.20	A16S
ATOM	10376	O3*	C	A 504	171.799	103.535	18.685	1.00	43.20	A16S
ATOM	10377	P	G	A 505	173.312	103.086	18.408	1.00	46.97	A16S
ATOM	10378	O1P	G	A 505	174.111	103.528	19.576	1.00	49.49	A16S
ATOM	10379	O2P	G	A 505	173.281	101.644	18.050	1.00	49.49	A16S
ATOM	10380	O5*	G	A 505	173.725	103.920	17.112	1.00	46.97	A16S
ATOM	10381	C5*	G	A 505	174.305	105.224	17.233	1.00	46.97	A16S
ATOM	10382	C4*	G	A 505	174.486	105.863	15.873	1.00	46.97	A16S
ATOM	10383	O4*	G	A 505	175.371	105.059	15.056	1.00	46.97	A16S
ATOM	10384	C1*	G	A 505	175.015	105.200	13.693	1.00	46.97	A16S
ATOM	10385	N9	G	A 505	174.661	103.889	13.163	1.00	49.49	A16S
ATOM	10386	C4	G	A 505	174.451	103.569	11.838	1.00	49.49	A16S

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ATOM  10387  N3  G   A 505     174.547 104.415  10.785  1.00 49.49      A16S
ATOM  10388  C2  G   A 505     174.245 103.821   9.641  1.00 49.49      A16S
ATOM  10389  N2  G   A 505     174.269 104.517   8.504  1.00 49.49      A16S
ATOM  10390  N1  G   A 505     173.891 102.502   9.533  1.00 49.49      A16S
ATOM  10391  C6  G   A 505     173.792 101.610  10.600  1.00 49.49      A16S
ATOM  10392  O6  G   A 505     173.459 100.437  10.398  1.00 49.49      A16S
ATOM  10393  C5  G   A 505     174.106 102.235  11.837  1.00 49.49      A16S
ATOM  10394  N7  G   A 505     174.115 101.720  13.129  1.00 49.49      A16S
ATOM  10395  C8  G   A 505     174.451 102.733  13.878  1.00 49.49      A16S
ATOM  10396  C2* G   A 505     173.844 106.178  13.615  1.00 46.97      A16S
ATOM  10397  O2* G   A 505     174.352 107.475  13.360  1.00 46.97      A16S
ATOM  10398  C3* G   A 505     173.250 106.064  15.011  1.00 46.97      A16S
ATOM  10399  O3* G   A 505     172.554 107.257  15.358  1.00 46.97      A16S
ATOM  10400  P   G   A 506     171.034 107.461  14.874  1.00 35.54      A16S
ATOM  10401  O1P G   A 506     170.624 108.811  15.338  1.00 43.88      A16S
ATOM  10402  O2P G   A 506     170.257 106.263  15.320  1.00 43.88      A16S
ATOM  10403  O5* G   A 506     171.128 107.521  13.279  1.00 35.54      A16S
ATOM  10404  C5* G   A 506     171.599 108.723  12.629  1.00 35.54      A16S
ATOM  10405  C4* G   A 506     171.213 108.732  11.172  1.00 35.54      A16S
ATOM  10406  O4* G   A 506     171.995 107.756  10.457  1.00 35.54      A16S
ATOM  10407  C1* G   A 506     171.191 107.094   9.505  1.00 35.54      A16S
ATOM  10408  N9  G   A 506     171.102 105.699   9.925  1.00 43.88      A16S
ATOM  10409  C4  G   A 506     170.811 104.622   9.128  1.00 43.88      A16S
ATOM  10410  N3  G   A 506     170.509 104.670   7.819  1.00 43.88      A16S
ATOM  10411  C2  G   A 506     170.286 103.476   7.325  1.00 43.88      A16S
ATOM  10412  N2  G   A 506     169.942 103.347   6.046  1.00 43.88      A16S
ATOM  10413  N1  G   A 506     170.375 102.320   8.048  1.00 43.88      A16S
ATOM  10414  C6  G   A 506     170.700 102.243   9.396  1.00 43.88      A16S
ATOM  10415  O6  G   A 506     170.783 101.138   9.950  1.00 43.88      A16S
ATOM  10416  C5  G   A 506     170.912 103.523   9.949  1.00 43.88      A16S
ATOM  10417  N7  G   A 506     171.225 103.902  11.248  1.00 43.88      A16S
ATOM  10418  C8  G   A 506     171.321 105.200  11.190  1.00 43.88      A16S
ATOM  10419  C2* G   A 506     169.836 107.794   9.482  1.00 35.54      A16S
ATOM  10420  O2* G   A 506     169.820 108.802   8.491  1.00 35.54      A16S
ATOM  10421  C3* G   A 506     169.774 108.366  10.887  1.00 35.54      A16S
ATOM  10422  O3* G   A 506     168.941 109.499  10.937  1.00 35.54      A16S
ATOM  10423  P   C   A 507     167.472 109.356  11.546  1.00 42.54      A16S
ATOM  10424  O1P C   A 507     166.864 110.708  11.427  1.00 31.76      A16S
ATOM  10425  O2P C   A 507     167.585 108.697  12.885  1.00 31.76      A16S
ATOM  10426  O5* C   A 507     166.722 108.422  10.500  1.00 42.54      A16S
ATOM  10427  C5* C   A 507     166.425 108.938   9.195  1.00 42.54      A16S
ATOM  10428  C4* C   A 507     165.931 107.850   8.286  1.00 42.54      A16S
ATOM  10429  O4* C   A 507     166.979 106.884   8.033  1.00 42.54      A16S
ATOM  10430  C1* C   A 507     166.400 105.616   7.805  1.00 42.54      A16S
ATOM  10431  N1  C   A 507     166.898 104.683   8.822  1.00 31.76      A16S
ATOM  10432  C6  C   A 507     167.245 105.124  10.065  1.00 31.76      A16S
ATOM  10433  C2  C   A 507     166.984 103.316   8.506  1.00 31.76      A16S
ATOM  10434  O2  C   A 507     166.689 102.939   7.355  1.00 31.76      A16S
ATOM  10435  N3  C   A 507     167.383 102.447   9.459  1.00 31.76      A16S
ATOM  10436  C4  C   A 507     167.688 102.890  10.676  1.00 31.76      A16S
ATOM  10437  N4  C   A 507     168.037 102.000  11.593  1.00 31.76      A16S
ATOM  10438  C5  C   A 507     167.638 104.270  11.011  1.00 31.76      A16S
ATOM  10439  C2* C   A 507     164.883 105.779   7.901  1.00 42.54      A16S
ATOM  10440  O2* C   A 507     164.381 105.978   6.592  1.00 42.54      A16S
ATOM  10441  C3* C   A 507     164.759 107.024   8.770  1.00 42.54      A16S
ATOM  10442  O3* C   A 507     163.548 107.714   8.535  1.00 42.54      A16S
ATOM  10443  P   C   A 508     162.358 107.623   9.606  1.00 42.46      A16S
ATOM  10444  O1P C   A 508     161.695 106.301   9.467  1.00 34.57      A16S
ATOM  10445  O2P C   A 508     161.558 108.865   9.476  1.00 34.57      A16S
ATOM  10446  O5* C   A 508     163.088 107.646  11.017  1.00 42.46      A16S
ATOM  10447  C5* C   A 508     162.428 108.174  12.180  1.00 42.46      A16S
ATOM  10448  C4* C   A 508     163.136 107.711  13.422  1.00 42.46      A16S
ATOM  10449  O4* C   A 508     162.979 106.279  13.516  1.00 42.46      A16S
ATOM  10450  C1* C   A 508     164.236 105.665  13.580  1.00 42.46      A16S
ATOM  10451  N1  C   A 508     164.198 104.475  12.745  1.00 34.57      A16S
ATOM  10452  C6  C   A 508     163.712 104.524  11.472  1.00 34.57      A16S
ATOM  10453  C2  C   A 508     164.674 103.288  13.267  1.00 34.57      A16S
ATOM  10454  O2  C   A 508     165.111 103.280  14.425  1.00 34.57      A16S
ATOM  10455  N3  C   A 508     164.657 102.175  12.508  1.00 34.57      A16S
ATOM  10456  C4  C   A 508     164.194 102.229  11.266  1.00 34.57      A16S
ATOM  10457  N4  C   A 508     164.215 101.114  10.549  1.00 34.57      A16S
ATOM  10458  C5  C   A 508     163.694 103.433  10.702  1.00 34.57      A16S
ATOM  10459  C2* C   A 508     165.257 106.660  13.056  1.00 42.46      A16S
ATOM  10460  O2* C   A 508     166.502 106.392  13.667  1.00 42.46      A16S
ATOM  10461  C3* C   A 508     164.637 107.995  13.457  1.00 42.46      A16S
ATOM  10462  O3* C   A 508     165.058 108.346  14.769  1.00 42.46      A16S
ATOM  10463  P   A   A 509     164.495 109.683  15.453  1.00 28.99      A16S
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ATOM  10464  O1P A   A 509     163.879 110.536  14.402  1.00 45.92      A16S
ATOM  10465  O2P A   A 509     165.590 110.231  16.291  1.00 45.92      A16S
ATOM  10466  O5* A   A 509     163.318 109.112  16.366  1.00 28.99      A16S
ATOM  10467  C5* A   A 509     162.633 109.949  17.303  1.00 28.99      A16S
ATOM  10468  C4* A   A 509     162.707 109.357  18.689  1.00 28.99      A16S
ATOM  10469  O4* A   A 509     161.755 108.266  18.845  1.00 28.99      A16S
ATOM  10470  C1* A   A 509     162.325 107.230  19.635  1.00 28.99      A16S
ATOM  10471  N9  A   A 509     162.603 106.077  18.762  1.00 45.92      A16S
ATOM  10472  C4  A   A 509     162.463 104.738  19.062  1.00 45.92      A16S
ATOM  10473  N3  A   A 509     161.983 104.191  20.192  1.00 45.92      A16S
ATOM  10474  C2  A   A 509     161.996 102.861  20.121  1.00 45.92      A16S
ATOM  10475  N1  A   A 509     162.411 102.071  19.133  1.00 45.92      A16S
ATOM  10476  C6  A   A 509     162.903 102.648  18.016  1.00 45.92      A16S
ATOM  10477  N6  A   A 509     163.341 101.860  17.033  1.00 45.92      A16S
ATOM  10478  C5  A   A 509     162.929 104.054  17.957  1.00 45.92      A16S
ATOM  10479  N7  A   A 509     163.335 104.936  16.968  1.00 45.92      A16S
ATOM  10480  C8  A   A 509     163.112 106.117  17.484  1.00 45.92      A16S
ATOM  10481  C2* A   A 509     163.650 107.769  20.168  1.00 28.99      A16S
ATOM  10482  O2* A   A 509     163.425 108.321  21.441  1.00 28.99      A16S
ATOM  10483  C3* A   A 509     164.033 108.729  19.044  1.00 28.99      A16S
ATOM  10484  O3* A   A 509     165.108 109.659  19.116  1.00 28.99      A16S
ATOM  10485  P   A   A 510     165.421 110.458  20.453  1.00 42.18      A16S
ATOM  10486  O1P A   A 510     164.132 110.733  21.131  1.00 66.45      A16S
ATOM  10487  O2P A   A 510     166.294 111.590  20.065  1.00 66.45      A16S
ATOM  10488  O5* A   A 510     166.290 109.461  21.322  1.00 42.18      A16S
ATOM  10489  C5* A   A 510     166.346 109.622  22.734  1.00 42.18      A16S
ATOM  10490  C4* A   A 510     166.739 108.328  23.367  1.00 42.18      A16S
ATOM  10491  O4* A   A 510     165.899 107.277  22.822  1.00 42.18      A16S
ATOM  10492  C1* A   A 510     166.660 106.099  22.664  1.00 42.18      A16S
ATOM  10493  N9  A   A 510     166.644 105.726  21.249  1.00 66.45      A16S
ATOM  10494  C4  A   A 510     166.303 104.493  20.760  1.00 66.45      A16S
ATOM  10495  N3  A   A 510     165.922 103.419  21.466  1.00 66.45      A16S
ATOM  10496  C2  A   A 510     165.675 102.400  20.662  1.00 66.45      A16S
ATOM  10497  N1  A   A 510     165.751 102.333  19.333  1.00 66.45      A16S
ATOM  10498  C6  A   A 510     166.131 103.427  18.649  1.00 66.45      A16S
ATOM  10499  N6  A   A 510     166.191 103.354  17.318  1.00 66.45      A16S
ATOM  10500  C5  A   A 510     166.434 104.581  19.388  1.00 66.45      A16S
ATOM  10501  N7  A   A 510     166.854 105.850  19.013  1.00 66.45      A16S
ATOM  10502  C8  A   A 510     166.959 106.492  20.151  1.00 66.45      A16S
ATOM  10503  C2* A   A 510     168.065 106.385  23.198  1.00 42.18      A16S
ATOM  10504  O2* A   A 510     168.102 106.027  24.562  1.00 42.18      A16S
ATOM  10505  C3* A   A 510     168.154 107.893  23.043  1.00 42.18      A16S
ATOM  10506  O3* A   A 510     169.063 108.457  23.967  1.00 42.18      A16S
ATOM  10507  P   C   A 511     169.478 110.000  23.830  1.00 53.62      A16S
ATOM  10508  O1P C   A 511     168.591 110.765  24.738  1.00 52.70      A16S
ATOM  10509  O2P C   A 511     169.553 110.378  22.399  1.00 52.70      A16S
ATOM  10510  O5* C   A 511     170.930 110.038  24.470  1.00 53.62      A16S
ATOM  10511  C5* C   A 511     172.103 109.998  23.654  1.00 53.62      A16S
ATOM  10512  C4* C   A 511     173.299 109.719  24.515  1.00 53.62      A16S
ATOM  10513  O4* C   A 511     173.211 108.365  25.029  1.00 53.62      A16S
ATOM  10514  C1* C   A 511     174.423 107.704  24.775  1.00 53.62      A16S
ATOM  10515  N1  C   A 511     174.169 106.273  24.702  1.00 52.70      A16S
ATOM  10516  C6  C   A 511     173.888 105.656  23.521  1.00 52.70      A16S
ATOM  10517  C2  C   A 511     174.225 105.547  25.876  1.00 52.70      A16S
ATOM  10518  O2  C   A 511     174.467 106.144  26.932  1.00 52.70      A16S
ATOM  10519  N3  C   A 511     174.017 104.218  25.843  1.00 52.70      A16S
ATOM  10520  C4  C   A 511     173.757 103.617  24.685  1.00 52.70      A16S
ATOM  10521  N4  C   A 511     173.570 102.296  24.692  1.00 52.70      A16S
ATOM  10522  C5  C   A 511     173.678 104.341  23.468  1.00 52.70      A16S
ATOM  10523  C2* C   A 511     175.015 108.382  23.547  1.00 53.62      A16S
ATOM  10524  O2* C   A 511     176.399 108.112  23.447  1.00 53.62      A16S
ATOM  10525  C3* C   A 511     174.662 109.836  23.844  1.00 53.62      A16S
ATOM  10526  O3* C   A 511     175.542 110.336  24.850  1.00 53.62      A16S
ATOM  10527  P   U   A 512     176.819 111.210  24.445  1.00 58.18      A16S
ATOM  10528  O1P U   A 512     176.381 112.634  24.521  1.00 65.84      A16S
ATOM  10529  O2P U   A 512     177.377 110.669  23.172  1.00 65.84      A16S
ATOM  10530  O5* U   A 512     177.853 110.925  25.621  1.00 58.18      A16S
ATOM  10531  C5* U   A 512     178.733 109.784  25.579  1.00 58.18      A16S
ATOM  10532  C4* U   A 512     178.789 109.119  26.936  1.00 58.18      A16S
ATOM  10533  O4* U   A 512     177.593 108.321  27.138  1.00 58.18      A16S
ATOM  10534  C1* U   A 512     177.908 107.179  27.918  1.00 58.18      A16S
ATOM  10535  N1  U   A 512     177.571 105.963  27.161  1.00 65.84      A16S
ATOM  10536  C6  U   A 512     177.414 105.970  25.798  1.00 65.84      A16S
ATOM  10537  C2  U   A 512     177.428 104.796  27.881  1.00 65.84      A16S
ATOM  10538  O2  U   A 512     177.558 104.747  29.093  1.00 65.84      A16S
ATOM  10539  N3  U   A 512     177.128 103.689  27.137  1.00 65.84      A16S
ATOM  10540  C4  U   A 512     176.962 103.629  25.782  1.00 65.84      A16S
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ATOM  10541  O4  U   A 512     176.675 102.556  25.262  1.00 65.84      A16S
ATOM  10542  C5  U   A 512     177.125 104.872  25.103  1.00 65.84      A16S
ATOM  10543  C2* U   A 512     179.395 107.238  28.260  1.00 58.18      A16S
ATOM  10544  O2* U   A 512     179.550 107.792  29.550  1.00 58.18      A16S
ATOM  10545  C3* U   A 512     179.929 108.134  27.150  1.00 58.18      A16S
ATOM  10546  O3* U   A 512     181.131 108.799  27.529  1.00 58.18      A16S
ATOM  10547  P   C   A 513     182.544 108.263  26.978  1.00 54.55      A16S
ATOM  10548  O1P C   A 513     183.541 109.342  27.240  1.00 69.98      A16S
ATOM  10549  O2P C   A 513     182.361 107.762  25.588  1.00 69.98      A16S
ATOM  10550  O5* C   A 513     182.854 107.016  27.922  1.00 54.55      A16S
ATOM  10551  C5* C   A 513     183.148 107.217  29.311  1.00 54.55      A16S
ATOM  10552  C4* C   A 513     183.384 105.899  29.996  1.00 54.55      A16S
ATOM  10553  O4* C   A 513     182.144 105.165  30.069  1.00 54.55      A16S
ATOM  10554  C1* C   A 513     182.414 103.777  30.010  1.00 54.55      A16S
ATOM  10555  N1  C   A 513     181.635 103.190  28.905  1.00 69.98      A16S
ATOM  10556  C6  C   A 513     181.214 103.960  27.857  1.00 69.98      A16S
ATOM  10557  C2  C   A 513     181.317 101.820  28.950  1.00 69.98      A16S
ATOM  10558  O2  C   A 513     181.726 101.131  29.900  1.00 69.98      A16S
ATOM  10559  N3  C   A 513     180.576 101.285  27.962  1.00 69.98      A16S
ATOM  10560  C4  C   A 513     180.155 102.052  26.956  1.00 69.98      A16S
ATOM  10561  N4  C   A 513     179.407 101.485  26.012  1.00 69.98      A16S
ATOM  10562  C5  C   A 513     180.478 103.438  26.874  1.00 69.98      A16S
ATOM  10563  C2* C   A 513     183.925 103.590  29.876  1.00 54.55      A16S
ATOM  10564  O2* C   A 513     184.467 103.312  31.148  1.00 54.55      A16S
ATOM  10565  C3* C   A 513     184.362 104.944  29.333  1.00 54.55      A16S
ATOM  10566  O3* C   A 513     185.703 105.234  29.694  1.00 54.55      A16S
ATOM  10567  P   C   A 514     186.910 104.679  28.788  1.00 55.41      A16S
ATOM  10568  O1P C   A 514     188.176 105.151  29.418  1.00 67.05      A16S
ATOM  10569  O2P C   A 514     186.628 105.026  27.372  1.00 67.05      A16S
ATOM  10570  O5* C   A 514     186.819 103.101  28.979  1.00 55.41      A16S
ATOM  10571  C5* C   A 514     187.066 102.522  30.267  1.00 55.41      A16S
ATOM  10572  C4* C   A 514     186.797 101.042  30.249  1.00 55.41      A16S
ATOM  10573  O4* C   A 514     185.384 100.802  30.063  1.00 55.41      A16S
ATOM  10574  C1* C   A 514     185.201  99.601  29.330  1.00 55.41      A16S
ATOM  10575  N1  C   A 514     184.436  99.893  28.109  1.00 67.05      A16S
ATOM  10576  C6  C   A 514     184.324 101.169  27.631  1.00 67.05      A16S
ATOM  10577  C2  C   A 514     183.827  98.831  27.436  1.00 67.05      A16S
ATOM  10578  O2  C   A 514     183.946  97.679  27.897  1.00 67.05      A16S
ATOM  10579  N3  C   A 514     183.129  99.083  26.304  1.00 67.05      A16S
ATOM  10580  C4  C   A 514     183.026 100.334  25.848  1.00 67.05      A16S
ATOM  10581  N4  C   A 514     182.324 100.540  24.727  1.00 67.05      A16S
ATOM  10582  C5  C   A 514     183.636 101.431  26.517  1.00 67.05      A16S
ATOM  10583  C2* C   A 514     186.579  99.026  29.008  1.00 55.41      A16S
ATOM  10584  O2* C   A 514     186.903  98.003  29.926  1.00 55.41      A16S
ATOM  10585  C3* C   A 514     187.466 100.256  29.138  1.00 55.41      A16S
ATOM  10586  O3* C   A 514     188.793  99.898  29.470  1.00 55.41      A16S
ATOM  10587  P   G   A 515     189.794  99.429  28.311  1.00 51.66      A16S
ATOM  10588  O1P G   A 515     191.093  99.141  28.967  1.00 76.26      A16S
ATOM  10589  O2P G   A 515     189.735 100.416  27.198  1.00 76.26      A16S
ATOM  10590  O5* G   A 515     189.166  98.057  27.808  1.00 51.66      A16S
ATOM  10591  C5* G   A 515     189.192  96.897  28.643  1.00 51.66      A16S
ATOM  10592  C4* G   A 515     188.567  95.730  27.927  1.00 51.66      A16S
ATOM  10593  O4* G   A 515     187.175  96.027  27.648  1.00 51.66      A16S
ATOM  10594  C1* G   A 515     186.784  95.394  26.439  1.00 51.66      A16S
ATOM  10595  N9  G   A 515     186.377  96.420  25.485  1.00 76.26      A16S
ATOM  10596  C4  G   A 515     185.705  96.205  24.313  1.00 76.26      A16S
ATOM  10597  N3  G   A 515     185.296  95.010  23.847  1.00 76.26      A16S
ATOM  10598  C2  G   A 515     184.686  95.120  22.688  1.00 76.26      A16S
ATOM  10599  N2  G   A 515     184.221  94.026  22.080  1.00 76.26      A16S
ATOM  10600  N1  G   A 515     184.489  96.310  22.039  1.00 76.26      A16S
ATOM  10601  C6  G   A 515     184.906  97.553  22.504  1.00 76.26      A16S
ATOM  10602  O6  G   A 515     184.687  98.569  21.840  1.00 76.26      A16S
ATOM  10603  C5  G   A 515     185.561  97.448  23.740  1.00 76.26      A16S
ATOM  10604  N7  G   A 515     186.129  98.428  24.537  1.00 76.26      A16S
ATOM  10605  C8  G   A 515     186.599  97.774  25.562  1.00 76.26      A16S
ATOM  10606  C2* G   A 515     187.991  94.622  25.919  1.00 51.66      A16S
ATOM  10607  O2* G   A 515     187.935  93.285  26.371  1.00 51.66      A16S
ATOM  10608  C3* G   A 515     189.135  95.383  26.563  1.00 51.66      A16S
ATOM  10609  O3* G   A 515     190.303  94.597  26.616  1.00 51.66      A16S
ATOM  10610  P   U   A 516     191.443  94.841  25.523  1.00 68.10      A16S
ATOM  10611  O1P U   A 516     192.563  93.920  25.821  1.00 56.63      A16S
ATOM  10612  O2P U   A 516     191.685  96.308  25.431  1.00 56.63      A16S
ATOM  10613  O5* U   A 516     190.777  94.388  24.152  1.00 68.10      A16S
ATOM  10614  C5* U   A 516     190.279  93.051  23.964  1.00 68.10      A16S
ATOM  10615  C4* U   A 516     189.576  92.947  22.631  1.00 68.10      A16S
ATOM  10616  O4* U   A 516     188.462  93.876  22.613  1.00 68.10      A16S
ATOM  10617  C1* U   A 516     188.290  94.392  21.306  1.00 68.10      A16S
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ATOM  10618  N1  U   A 516     188.213  95.865  21.370  1.00 56.63      A16S
ATOM  10619  C6  U   A 516     188.645  96.564  22.474  1.00 56.63      A16S
ATOM  10620  C2  U   A 516     187.659  96.533  20.291  1.00 56.63      A16S
ATOM  10621  O2  U   A 516     187.313  95.965  19.268  1.00 56.63      A16S
ATOM  10622  N3  U   A 516     187.534  97.897  20.448  1.00 56.63      A16S
ATOM  10623  C4  U   A 516     187.920  98.653  21.539  1.00 56.63      A16S
ATOM  10624  O4  U   A 516     187.703  99.879  21.554  1.00 56.63      A16S
ATOM  10625  C5  U   A 516     188.524  97.895  22.590  1.00 56.63      A16S
ATOM  10626  C2* U   A 516     189.363  93.771  20.404  1.00 68.10      A16S
ATOM  10627  O2* U   A 516     188.800  92.661  19.727  1.00 68.10      A16S
ATOM  10628  C3* U   A 516     190.413  93.324  21.417  1.00 68.10      A16S
ATOM  10629  O3* U   A 516     191.150  92.197  20.943  1.00 68.10      A16S
ATOM  10630  P   G   A 517     192.731  92.333  20.656  1.00 79.77      A16S
ATOM  10631  O1P G   A 517     193.241  90.939  20.515  1.00 79.95      A16S
ATOM  10632  O2P G   A 517     193.341  93.247  21.665  1.00 79.95      A16S
ATOM  10633  O5* G   A 517     192.838  93.057  19.240  1.00 79.77      A16S
ATOM  10634  C5* G   A 517     192.314  92.433  18.060  1.00 79.77      A16S
ATOM  10635  C4* G   A 517     191.957  93.476  17.034  1.00 79.77      A16S
ATOM  10636  O4* G   A 517     191.280  94.569  17.702  1.00 79.77      A16S
ATOM  10637  C1* G   A 517     191.937  95.784  17.418  1.00 79.77      A16S
ATOM  10638  N9  G   A 517     191.856  96.632  18.602  1.00 79.95      A16S
ATOM  10639  C4  G   A 517     191.285  97.878  18.657  1.00 79.95      A16S
ATOM  10640  N3  G   A 517     190.727  98.533  17.623  1.00 79.95      A16S
ATOM  10641  C2  G   A 517     190.236  99.694  17.988  1.00 79.95      A16S
ATOM  10642  N2  G   A 517     189.635 100.471  17.087  1.00 79.95      A16S
ATOM  10643  N1  G   A 517     190.292 100.182  19.265  1.00 79.95      A16S
ATOM  10644  C6  G   A 517     190.856  99.529  20.349  1.00 79.95      A16S
ATOM  10645  O6  G   A 517     190.832 100.060  21.468  1.00 79.95      A16S
ATOM  10646  C5  G   A 517     191.391  98.274  19.972  1.00 79.95      A16S
ATOM  10647  N7  G   A 517     192.032  97.303  20.729  1.00 79.95      A16S
ATOM  10648  C8  G   A 517     192.295  96.350  19.875  1.00 79.95      A16S
ATOM  10649  C2* G   A 517     193.350  95.425  16.965  1.00 79.77      A16S
ATOM  10650  O2* G   A 517     193.863  96.419  16.093  1.00 79.77      A16S
ATOM  10651  C3* G   A 517     193.109  94.096  16.257  1.00 79.77      A16S
ATOM  10652  O3* G   A 517     192.621  94.352  14.951  1.00 79.77      A16S
ATOM  10653  P   C   A 518     193.492  93.938  13.679  1.00 67.45      A16S
ATOM  10654  O1P C   A 518     194.448  92.899  14.117  1.00 64.97      A16S
ATOM  10655  O2P C   A 518     193.992  95.189  13.060  1.00 64.97      A16S
ATOM  10656  O5* C   A 518     192.449  93.224  12.705  1.00 67.45      A16S
ATOM  10657  C5* C   A 518     191.245  93.884  12.297  1.00 67.45      A16S
ATOM  10658  C4* C   A 518     190.830  93.426  10.920  1.00 67.45      A16S
ATOM  10659  O4* C   A 518     189.678  94.205  10.540  1.00 67.45      A16S
ATOM  10660  C1* C   A 518     189.715  94.482   9.157  1.00 67.45      A16S
ATOM  10661  N1  C   A 518     189.286  95.875   8.938  1.00 64.97      A16S
ATOM  10662  C6  C   A 518     189.252  96.761   9.978  1.00 64.97      A16S
ATOM  10663  C2  C   A 518     188.894  96.282   7.647  1.00 64.97      A16S
ATOM  10664  O2  C   A 518     188.933  95.465   6.707  1.00 64.97      A16S
ATOM  10665  N3  C   A 518     188.481  97.555   7.459  1.00 64.97      A16S
ATOM  10666  C4  C   A 518     188.450  98.408   8.488  1.00 64.97      A16S
ATOM  10667  N4  C   A 518     188.036  99.658   8.257  1.00 64.97      A16S
ATOM  10668  C5  C   A 518     188.843  98.020   9.801  1.00 64.97      A16S
ATOM  10669  C2* C   A 518     191.070  94.056   8.586  1.00 67.45      A16S
ATOM  10670  O2* C   A 518     190.899  93.026   7.650  1.00 67.45      A16S
ATOM  10671  C3* C   A 518     191.867  93.677   9.833  1.00 67.45      A16S
ATOM  10672  O3* C   A 518     192.772  92.555   9.673  1.00 67.45      A16S
ATOM  10673  P   C   A 519     192.210  91.028   9.501  1.00 36.27      A16S
ATOM  10674  O1P C   A 519     193.401  90.171   9.228  1.00 71.51      A16S
ATOM  10675  O2P C   A 519     191.045  90.949   8.594  1.00 71.51      A16S
ATOM  10676  O5* C   A 519     191.686  90.639  10.957  1.00 36.27      A16S
ATOM  10677  C5* C   A 519     190.746  89.570  11.152  1.00 36.27      A16S
ATOM  10678  C4* C   A 519     190.709  89.184  12.605  1.00 36.27      A16S
ATOM  10679  O4* C   A 519     190.786  90.370  13.424  1.00 36.27      A16S
ATOM  10680  C1* C   A 519     190.198  90.090  14.675  1.00 36.27      A16S
ATOM  10681  N1  C   A 519     189.472  91.268  15.182  1.00 71.51      A16S
ATOM  10682  C6  C   A 519     189.112  92.297  14.357  1.00 71.51      A16S
ATOM  10683  C2  C   A 519     189.166  91.320  16.547  1.00 71.51      A16S
ATOM  10684  O2  C   A 519     189.488  90.363  17.275  1.00 71.51      A16S
ATOM  10685  N3  C   A 519     188.529  92.403  17.041  1.00 71.51      A16S
ATOM  10686  C4  C   A 519     188.194  93.408  16.232  1.00 71.51      A16S
ATOM  10687  N4  C   A 519     187.579  94.466  16.769  1.00 71.51      A16S
ATOM  10688  C5  C   A 519     188.477  93.375  14.835  1.00 71.51      A16S
ATOM  10689  C2* C   A 519     189.387  88.798  14.568  1.00 36.27      A16S
ATOM  10690  O2* C   A 519     190.020  87.848  15.386  1.00 36.27      A16S
ATOM  10691  C3* C   A 519     189.446  88.478  13.071  1.00 36.27      A16S
ATOM  10692  O3* C   A 519     189.570  87.077  12.841  1.00 36.27      A16S
ATOM  10693  P   A   A 520     188.264  86.131  12.869  1.00 56.74      A16S
ATOM  10694  O1P A   A 520     188.728  84.713  13.022  1.00 38.79      A16S
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ATOM  10695  O2P A   A 520     187.368  86.500  11.729  1.00 38.79      A16S
ATOM  10696  O5* A   A 520     187.532  86.521  14.225  1.00 56.74      A16S
ATOM  10697  C5* A   A 520     187.907  85.892  15.454  1.00 56.74      A16S
ATOM  10698  C4* A   A 520     187.022  86.366  16.572  1.00 56.74      A16S
ATOM  10699  O4* A   A 520     187.299  87.752  16.888  1.00 56.74      A16S
ATOM  10700  C1* A   A 520     186.100  88.399  17.271  1.00 56.74      A16S
ATOM  10701  N9  A   A 520     185.915  89.560  16.399  1.00 38.79      A16S
ATOM  10702  C4  A   A 520     185.397  90.783  16.756  1.00 38.79      A16S
ATOM  10703  N3  A   A 520     184.927  91.154  17.960  1.00 38.79      A16S
ATOM  10704  C2  A   A 520     184.545  92.435  17.942  1.00 38.79      A16S
ATOM  10705  N1  A   A 520     184.578  93.318  16.935  1.00 38.79      A16S
ATOM  10706  C6  A   A 520     185.049  92.911  15.742  1.00 38.79      A16S
ATOM  10707  N6  A   A 520     185.083  93.791  14.748  1.00 38.79      A16S
ATOM  10708  C5  A   A 520     185.484  91.576  15.626  1.00 38.79      A16S
ATOM  10709  N7  A   A 520     186.020  90.858  14.568  1.00 38.79      A16S
ATOM  10710  C8  A   A 520     186.252  89.672  15.075  1.00 38.79      A16S
ATOM  10711  C2* A   A 520     184.976  87.363  17.220  1.00 56.74      A16S
ATOM  10712  O2* A   A 520     184.785  86.796  18.501  1.00 56.74      A16S
ATOM  10713  C3* A   A 520     185.546  86.335  16.259  1.00 56.74      A16S
ATOM  10714  O3* A   A 520     185.002  85.046  16.452  1.00 56.74      A16S
ATOM  10715  P   G   A 521     183.787  84.581  15.523  1.00 52.56      A16S
ATOM  10716  O1P G   A 521     183.408  83.194  15.882  1.00 48.47      A16S
ATOM  10717  O2P G   A 521     184.177  84.902  14.118  1.00 48.47      A16S
ATOM  10718  O5* G   A 521     182.611  85.561  15.970  1.00 52.56      A16S
ATOM  10719  C5* G   A 521     181.777  86.224  14.995  1.00 52.56      A16S
ATOM  10720  C4* G   A 521     181.370  87.591  15.490  1.00 52.56      A16S
ATOM  10721  O4* G   A 521     182.492  88.510  15.397  1.00 52.56      A16S
ATOM  10722  C1* G   A 521     182.025  89.818  15.096  1.00 52.56      A16S
ATOM  10723  N9  G   A 521     182.571  90.215  13.804  1.00 48.47      A16S
ATOM  10724  C4  G   A 521     182.459  91.448  13.216  1.00 48.47      A16S
ATOM  10725  N3  G   A 521     181.896  92.535  13.765  1.00 48.47      A16S
ATOM  10726  C2  G   A 521     181.886  93.561  12.928  1.00 48.47      A16S
ATOM  10727  N2  G   A 521     181.374  94.735  13.311  1.00 48.47      A16S
ATOM  10728  N1  G   A 521     182.378  93.518  11.654  1.00 48.47      A16S
ATOM  10729  C6  G   A 521     182.956  92.404  11.061  1.00 48.47      A16S
ATOM  10730  O6  G   A 521     183.344  92.462   9.884  1.00 48.47      A16S
ATOM  10731  C5  G   A 521     182.995  91.302  11.956  1.00 48.47      A16S
ATOM  10732  N7  G   A 521     183.492  90.019  11.777  1.00 48.47      A16S
ATOM  10733  C8  G   A 521     183.230  89.415  12.903  1.00 48.47      A16S
ATOM  10734  C2* G   A 521     180.500  89.741  15.008  1.00 52.56      A16S
ATOM  10735  O2* G   A 521     179.903  90.117  16.235  1.00 52.56      A16S
ATOM  10736  C3* G   A 521     180.287  88.272  14.678  1.00 52.56      A16S
ATOM  10737  O3* G   A 521     178.998  87.816  15.043  1.00 52.56      A16S
ATOM  10738  P   C   A 522     177.844  87.739  13.930  1.00 38.26      A16S
ATOM  10739  O1P C   A 522     176.719  86.919  14.464  1.00 52.51      A16S
ATOM  10740  O2P C   A 522     178.463  87.382  12.630  1.00 52.51      A16S
ATOM  10741  O5* C   A 522     177.375  89.247  13.785  1.00 38.26      A16S
ATOM  10742  C5* C   A 522     177.045  90.026  14.931  1.00 38.26      A16S
ATOM  10743  C4* C   A 522     176.635  91.409  14.507  1.00 38.26      A16S
ATOM  10744  O4* C   A 522     177.781  92.132  13.996  1.00 38.26      A16S
ATOM  10745  C1* C   A 522     177.336  93.103  13.072  1.00 38.26      A16S
ATOM  10746  N1  C   A 522     178.113  93.004  11.834  1.00 52.51      A16S
ATOM  10747  C6  C   A 522     178.704  91.834  11.448  1.00 52.51      A16S
ATOM  10748  C2  C   A 522     178.221  94.139  11.044  1.00 52.51      A16S
ATOM  10749  O2  C   A 522     177.707  95.200  11.451  1.00 52.51      A16S
ATOM  10750  N3  C   A 522     178.888  94.065   9.869  1.00 52.51      A16S
ATOM  10751  C4  C   A 522     179.455  92.917   9.496  1.00 52.51      A16S
ATOM  10752  N4  C   A 522     180.105  92.886   8.339  1.00 52.51      A16S
ATOM  10753  C5  C   A 522     179.380  91.748  10.298  1.00 52.51      A16S
ATOM  10754  C2* C   A 522     175.843  92.891  12.834  1.00 38.26      A16S
ATOM  10755  O2* C   A 522     175.109  93.837  13.574  1.00 38.26      A16S
ATOM  10756  C3* C   A 522     175.629  91.488  13.372  1.00 38.26      A16S
ATOM  10757  O3* C   A 522     174.297  91.338  13.820  1.00 38.26      A16S
ATOM  10758  P   A   A 523     173.192  90.769  12.812  1.00 36.96      A16S
ATOM  10759  O1P A   A 523     171.884  91.067  13.431  1.00 51.59      A16S
ATOM  10760  O2P A   A 523     173.534  89.363  12.453  1.00 51.59      A16S
ATOM  10761  O5* A   A 523     173.353  91.693  11.534  1.00 36.96      A16S
ATOM  10762  C5* A   A 523     172.919  93.051  11.563  1.00 36.96      A16S
ATOM  10763  C4* A   A 523     172.999  93.645  10.185  1.00 36.96      A16S
ATOM  10764  O4* A   A 523     174.380  93.863   9.817  1.00 36.96      A16S
ATOM  10765  C1* A   A 523     174.559  93.575   8.442  1.00 36.96      A16S
ATOM  10766  N9  A   A 523     175.540  92.488   8.329  1.00 51.59      A16S
ATOM  10767  C4  A   A 523     176.532  92.371   7.386  1.00 51.59      A16S
ATOM  10768  N3  A   A 523     176.831  93.239   6.407  1.00 51.59      A16S
ATOM  10769  C2  A   A 523     177.834  92.778   5.671  1.00 51.59      A16S
ATOM  10770  N1  A   A 523     178.514  91.635   5.788  1.00 51.59      A16S
ATOM  10771  C6  A   A 523     178.186  90.786   6.779  1.00 51.59      A16S
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ATOM  10772  N6  A   A 523     178.852  89.636   6.880  1.00 51.59      A16S
ATOM  10773  C5  A   A 523     177.152  91.163   7.639  1.00 51.59      A16S
ATOM  10774  N7  A   A 523     176.591  90.544   8.741  1.00 51.59      A16S
ATOM  10775  C8  A   A 523     175.646  91.370   9.117  1.00 51.59      A16S
ATOM  10776  C2* A   A 523     173.183  93.234   7.856  1.00 36.96      A16S
ATOM  10777  O2* A   A 523     172.606  94.399   7.303  1.00 36.96      A16S
ATOM  10778  C3* A   A 523     172.432  92.762   9.092  1.00 36.96      A16S
ATOM  10779  O3* A   A 523     171.039  92.972   9.016  1.00 36.96      A16S
ATOM  10780  P   G   A 524     170.092  91.859   8.363  1.00 48.65      A16S
ATOM  10781  O1P G   A 524     168.784  91.914   9.065  1.00 37.86      A16S
ATOM  10782  O2P G   A 524     170.823  90.566   8.284  1.00 37.86      A16S
ATOM  10783  O5* G   A 524     169.872  92.435   6.901  1.00 48.65      A16S
ATOM  10784  C5* G   A 524     168.754  92.028   6.118  1.00 48.65      A16S
ATOM  10785  C4* G   A 524     168.151  93.219   5.416  1.00 48.65      A16S
ATOM  10786  O4* G   A 524     167.278  93.952   6.306  1.00 48.65      A16S
ATOM  10787  C1* G   A 524     167.302  95.325   5.961  1.00 48.65      A16S
ATOM  10788  N9  G   A 524     167.614  96.097   7.161  1.00 37.86      A16S
ATOM  10789  C4  G   A 524     167.569  97.454   7.297  1.00 37.86      A16S
ATOM  10790  N3  G   A 524     167.240  98.324   6.337  1.00 37.86      A16S
ATOM  10791  C2  G   A 524     167.309  99.565   6.759  1.00 37.86      A16S
ATOM  10792  N2  G   A 524     167.041 100.567   5.913  1.00 37.86      A16S
ATOM  10793  N1  G   A 524     167.654  99.919   8.036  1.00 37.86      A16S
ATOM  10794  C6  G   A 524     167.985  99.027   9.048  1.00 37.86      A16S
ATOM  10795  O6  G   A 524     168.271  99.441  10.178  1.00 37.86      A16S
ATOM  10796  C5  G   A 524     167.935  97.706   8.599  1.00 37.86      A16S
ATOM  10797  N7  G   A 524     168.208  96.531   9.272  1.00 37.86      A16S
ATOM  10798  C8  G   A 524     168.003  95.602   8.382  1.00 37.86      A16S
ATOM  10799  C2* G   A 524     168.273  95.503   4.785  1.00 48.65      A16S
ATOM  10800  O2* G   A 524     167.539  95.559   3.574  1.00 48.65      A16S
ATOM  10801  C3* G   A 524     169.133  94.245   4.883  1.00 48.65      A16S
ATOM  10802  O3* G   A 524     169.641  93.826   3.618  1.00 48.65      A16S
ATOM  10803  P   C   A 525     171.177  94.111   3.233  1.00 40.92      A16S
ATOM  10804  O1P C   A 525     171.492  93.247   2.063  1.00 40.73      A16S
ATOM  10805  O2P C   A 525     172.026  94.023   4.461  1.00 40.73      A16S
ATOM  10806  O5* C   A 525     171.141  95.607   2.689  1.00 40.92      A16S
ATOM  10807  C5* C   A 525     170.485  95.903   1.446  1.00 40.92      A16S
ATOM  10808  C4* C   A 525     170.328  97.389   1.279  1.00 40.92      A16S
ATOM  10809  O4* C   A 525     169.466  97.877   2.326  1.00 40.92      A16S
ATOM  10810  C1* C   A 525     169.918  99.144   2.759  1.00 40.92      A16S
ATOM  10811  N1  C   A 525     170.264  99.052   4.188  1.00 40.73      A16S
ATOM  10812  C6  C   A 525     170.423  97.843   4.788  1.00 40.73      A16S
ATOM  10813  C2  C   A 525     170.408 100.222   4.926  1.00 40.73      A16S
ATOM  10814  O2  C   A 525     170.316 101.311   4.349  1.00 40.73      A16S
ATOM  10815  N3  C   A 525     170.656 100.145   6.240  1.00 40.73      A16S
ATOM  10816  C4  C   A 525     170.784  98.961   6.819  1.00 40.73      A16S
ATOM  10817  N4  C   A 525     171.013  98.927   8.128  1.00 40.73      A16S
ATOM  10818  C5  C   A 525     170.680  97.755   6.088  1.00 40.73      A16S
ATOM  10819  C2* C   A 525     171.105  99.547   1.888  1.00 40.92      A16S
ATOM  10820  O2* C   A 525     170.675 100.366   0.824  1.00 40.92      A16S
ATOM  10821  C3* C   A 525     171.607  98.195   1.420  1.00 40.92      A16S
ATOM  10822  O3* C   A 525     172.330  98.309   0.205  1.00 40.92      A16S
ATOM  10823  P   C   A 526     173.933  98.319   0.248  1.00 37.11      A16S
ATOM  10824  O1P C   A 526     174.418  98.229  -1.151  1.00 30.87      A16S
ATOM  10825  O2P C   A 526     174.358  97.303   1.233  1.00 30.87      A16S
ATOM  10826  O5* C   A 526     174.292  99.746   0.853  1.00 37.11      A16S
ATOM  10827  C5* C   A 526     173.930 100.946   0.163  1.00 37.11      A16S
ATOM  10828  C4* C   A 526     174.177 102.144   1.038  1.00 37.11      A16S
ATOM  10829  O4* C   A 526     173.304 102.081   2.192  1.00 37.11      A16S
ATOM  10830  C1* C   A 526     173.931 102.714   3.297  1.00 37.11      A16S
ATOM  10831  N1  C   A 526     173.954 101.791   4.444  1.00 30.87      A16S
ATOM  10832  C6  C   A 526     174.050 100.446   4.253  1.00 30.87      A16S
ATOM  10833  C2  C   A 526     173.891 102.317   5.747  1.00 30.87      A16S
ATOM  10834  O2  C   A 526     173.773 103.538   5.905  1.00 30.87      A16S
ATOM  10835  N3  C   A 526     173.953 101.482   6.795  1.00 30.87      A16S
ATOM  10836  C4  C   A 526     174.054 100.170   6.593  1.00 30.87      A16S
ATOM  10837  N4  C   A 526     174.110  99.375   7.658  1.00 30.87      A16S
ATOM  10838  C5  C   A 526     174.101  99.608   5.288  1.00 30.87      A16S
ATOM  10839  C2* C   A 526     175.333 103.141   2.860  1.00 37.11      A16S
ATOM  10840  O2* C   A 526     175.345 104.522   2.558  1.00 37.11      A16S
ATOM  10841  C3* C   A 526     175.566 102.261   1.639  1.00 37.11      A16S
ATOM  10842  O3* C   A 526     176.510 102.853   0.758  1.00 37.11      A16S
ATOM  10843  P   G   A 527     177.993 102.238   0.660  1.00 37.19      A16S
ATOM  10844  O1P G   A 527     178.957 103.352   0.457  1.00 39.24      A16S
ATOM  10845  O2P G   A 527     177.949 101.115  -0.305  1.00 39.24      A16S
ATOM  10846  O5* G   A 527     178.216 101.574   2.077  1.00 37.19      A16S
ATOM  10847  C5* G   A 527     179.203 102.060   2.970  1.00 37.19      A16S
ATOM  10848  C4* G   A 527     178.620 102.138   4.342  1.00 37.19      A16S
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ATOM  10849  O4*  G   A 527     177.639 101.084   4.473  1.00 37.19      A16S
ATOM  10850  C1*  G   A 527     177.728 100.516   5.754  1.00 37.19      A16S
ATOM  10851  N9   G   A 527     178.311  99.189   5.604  1.00 39.24      A16S
ATOM  10852  C4   G   A 527     178.383  98.233   6.577  1.00 39.24      A16S
ATOM  10853  N3   G   A 527     177.929  98.361   7.837  1.00 39.24      A16S
ATOM  10854  C2   G   A 527     178.151  97.279   8.552  1.00 39.24      A16S
ATOM  10855  N2   G   A 527     177.777  97.249   9.831  1.00 39.24      A16S
ATOM  10856  N1   G   A 527     178.759  96.153   8.067  1.00 39.24      A16S
ATOM  10857  C6   G   A 527     179.232  95.998   6.772  1.00 39.24      A16S
ATOM  10858  O6   G   A 527     179.760  94.942   6.442  1.00 39.24      A16S
ATOM  10859  C5   G   A 527     179.013  97.159   5.993  1.00 39.24      A16S
ATOM  10860  N7   G   A 527     179.338  97.436   4.673  1.00 39.24      A16S
ATOM  10861  C8   G   A 527     178.900  98.650   4.485  1.00 39.24      A16S
ATOM  10862  C2*  G   A 527     178.651 101.415   6.567  1.00 37.19      A16S
ATOM  10863  O2*  G   A 527     177.908 102.505   7.076  1.00 37.19      A16S
ATOM  10864  C3*  G   A 527     179.588 101.915   5.489  1.00 37.19      A16S
ATOM  10865  O3*  G   A 527     180.265 103.097   5.890  1.00 37.19      A16S
ATOM  10866  P    C   A 528     181.732 102.983   6.548  1.00 46.53      A16S
ATOM  10867  O1P  C   A 528     182.086 104.358   6.994  1.00 53.76      A16S
ATOM  10868  O2P  C   A 528     182.608 102.271   5.576  1.00 53.76      A16S
ATOM  10869  O5*  C   A 528     181.548 102.049   7.834  1.00 46.53      A16S
ATOM  10870  C5*  C   A 528     180.834 102.536   8.973  1.00 46.53      A16S
ATOM  10871  C4*  C   A 528     180.983 101.618  10.166  1.00 46.53      A16S
ATOM  10872  O4*  C   A 528     180.201 100.408  10.010  1.00 46.53      A16S
ATOM  10873  C1*  C   A 528     180.753  99.389  10.830  1.00 46.53      A16S
ATOM  10874  N1   C   A 528     181.137  98.239   9.998  1.00 53.76      A16S
ATOM  10875  C6   C   A 528     181.545  98.408   8.702  1.00 53.76      A16S
ATOM  10876  C2   C   A 528     181.132  96.961  10.577  1.00 53.76      A16S
ATOM  10877  O2   C   A 528     180.682  96.820  11.723  1.00 53.76      A16S
ATOM  10878  N3   C   A 528     181.610  95.915   9.869  1.00 53.76      A16S
ATOM  10879  C4   C   A 528     182.057  96.101   8.625  1.00 53.76      A16S
ATOM  10880  N4   C   A 528     182.571  95.051   7.982  1.00 53.76      A16S
ATOM  10881  C5   C   A 528     182.010  97.376   7.987  1.00 53.76      A16S
ATOM  10882  C2*  C   A 528     182.012  99.955  11.488  1.00 46.53      A16S
ATOM  10883  O2*  C   A 528     181.746 100.387  12.806  1.00 46.53      A16S
ATOM  10884  C3*  C   A 528     182.358 101.109  10.558  1.00 46.53      A16S
ATOM  10885  O3*  C   A 528     183.169 102.055  11.233  1.00 46.53      A16S
ATOM  10886  P    G   A 529     184.767 101.955  11.093  1.00 44.62      A16S
ATOM  10887  O1P  G   A 529     185.345 102.996  11.962  1.00 48.32      A16S
ATOM  10888  O2P  G   A 529     185.092 101.960   9.646  1.00 48.32      A16S
ATOM  10889  O5*  G   A 529     185.126 100.529  11.718  1.00 44.62      A16S
ATOM  10890  C5*  G   A 529     184.877 100.270  13.110  1.00 44.62      A16S
ATOM  10891  C4*  G   A 529     185.529  98.979  13.561  1.00 44.62      A16S
ATOM  10892  O4*  G   A 529     184.799  97.834  13.059  1.00 44.62      A16S
ATOM  10893  C1*  G   A 529     185.682  96.737  12.910  1.00 44.62      A16S
ATOM  10894  N9   G   A 529     185.691  96.334  11.505  1.00 48.32      A16S
ATOM  10895  C4   G   A 529     185.925  95.068  11.003  1.00 48.32      A16S
ATOM  10896  N3   G   A 529     186.126  93.947  11.727  1.00 48.32      A16S
ATOM  10897  C2   G   A 529     186.363  92.900  10.956  1.00 48.32      A16S
ATOM  10898  N2   G   A 529     186.559  91.692  11.505  1.00 48.32      A16S
ATOM  10899  N1   G   A 529     186.418  92.957   9.587  1.00 48.32      A16S
ATOM  10900  C6   G   A 529     186.222  94.099   8.822  1.00 48.32      A16S
ATOM  10901  O6   G   A 529     186.318  94.042   7.591  1.00 48.32      A16S
ATOM  10902  C5   G   A 529     185.940  95.219   9.632  1.00 48.32      A16S
ATOM  10903  N7   G   A 529     185.673  96.533   9.278  1.00 48.32      A16S
ATOM  10904  C8   G   A 529     185.522  97.154  10.416  1.00 48.32      A16S
ATOM  10905  C2*  G   A 529     187.070  97.207  13.361  1.00 44.62      A16S
ATOM  10906  O2*  G   A 529     187.282  96.897  14.724  1.00 44.62      A16S
ATOM  10907  C3*  G   A 529     186.971  98.711  13.167  1.00 44.62      A16S
ATOM  10908  O3*  G   A 529     187.909  99.392  13.987  1.00 44.62      A16S
ATOM  10909  P    G   A 530     189.052 100.277  13.300  1.00 70.52      A16S
ATOM  10910  O1P  G   A 530     189.704 101.072  14.350  1.00 73.95      A16S
ATOM  10911  O2P  G   A 530     188.453 100.961  12.130  1.00 73.95      A16S
ATOM  10912  O5*  G   A 530     190.099  99.211  12.766  1.00 70.52      A16S
ATOM  10913  C5*  G   A 530     190.626  98.204  13.638  1.00 70.52      A16S
ATOM  10914  C4*  G   A 530     191.985  97.750  13.153  1.00 70.52      A16S
ATOM  10915  O4*  G   A 530     191.862  97.118  11.861  1.00 70.52      A16S
ATOM  10916  C1*  G   A 530     193.053  97.319  11.128  1.00 70.52      A16S
ATOM  10917  N9   G   A 530     192.710  97.655   9.747  1.00 73.95      A16S
ATOM  10918  C4   G   A 530     192.149  98.817   9.275  1.00 73.95      A16S
ATOM  10919  N3   G   A 530     191.819  99.892  10.012  1.00 73.95      A16S
ATOM  10920  C2   G   A 530     191.273 100.839   9.268  1.00 73.95      A16S
ATOM  10921  N2   G   A 530     190.852 101.977   9.836  1.00 73.95      A16S
ATOM  10922  N1   G   A 530     191.092 100.743   7.910  1.00 73.95      A16S
ATOM  10923  C6   G   A 530     191.438  99.646   7.133  1.00 73.95      A16S
ATOM  10924  O6   G   A 530     191.244  99.665   5.913  1.00 73.95      A16S
ATOM  10925  C5   G   A 530     191.996  98.622   7.913  1.00 73.95      A16S
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ATOM	10926	N7	G	A	530	192.450	97.369	7.540	1.00	73.95	A16S
ATOM	10927	C8	G	A	530	192.871	96.834	8.653	1.00	73.95	A16S
ATOM	10928	C2*	G	A	530	193.975	98.256	11.918	1.00	70.52	A16S
ATOM	10929	O2*	G	A	530	195.005	97.483	12.508	1.00	70.52	A16S
ATOM	10930	C3*	G	A	530	193.028	98.842	12.967	1.00	70.52	A16S
ATOM	10931	O3*	G	A	530	193.685	99.028	14.222	1.00	70.52	A16S
ATOM	10932	P	U	A	531	194.770	100.196	14.402	1.00	68.00	A16S
ATOM	10933	O1P	U	A	531	194.547	101.199	13.326	1.00	89.70	A16S
ATOM	10934	O2P	U	A	531	196.106	99.559	14.556	1.00	89.70	A16S
ATOM	10935	O5*	U	A	531	194.369	100.867	15.787	1.00	68.00	A16S
ATOM	10936	C5*	U	A	531	193.058	101.408	15.967	1.00	68.00	A16S
ATOM	10937	C4*	U	A	531	192.910	101.990	17.347	1.00	68.00	A16S
ATOM	10938	O4*	U	A	531	192.989	100.932	18.342	1.00	68.00	A16S
ATOM	10939	C1*	U	A	531	193.922	101.294	19.333	1.00	68.00	A16S
ATOM	10940	N1	U	A	531	194.567	100.077	19.848	1.00	89.70	A16S
ATOM	10941	C6	U	A	531	195.234	99.211	19.012	1.00	89.70	A16S
ATOM	10942	C2	U	A	531	194.488	99.830	21.214	1.00	89.70	A16S
ATOM	10943	O2	U	A	531	193.895	100.558	21.996	1.00	89.70	A16S
ATOM	10944	N3	U	A	531	195.129	98.692	21.634	1.00	89.70	A16S
ATOM	10945	C4	U	A	531	195.823	97.791	20.851	1.00	89.70	A16S
ATOM	10946	O4	U	A	531	196.371	96.822	21.383	1.00	89.70	A16S
ATOM	10947	C5	U	A	531	195.847	98.108	19.454	1.00	89.70	A16S
ATOM	10948	C2*	U	A	531	194.869	102.300	18.676	1.00	68.00	A16S
ATOM	10949	O2*	U	A	531	195.467	103.143	19.642	1.00	68.00	A16S
ATOM	10950	C3*	U	A	531	193.925	103.056	17.742	1.00	68.00	A16S
ATOM	10951	O3*	U	A	531	193.260	104.067	18.485	1.00	68.00	A16S
ATOM	10952	P	A	A	532	193.301	105.596	17.996	1.00	107.41	A16S
ATOM	10953	O1P	A	A	532	192.861	105.636	16.578	1.00	201.30	A16S
ATOM	10954	O2P	A	A	532	194.614	106.179	18.372	1.00	201.30	A16S
ATOM	10955	O5*	A	A	532	192.168	106.263	18.901	1.00	107.41	A16S
ATOM	10956	C5*	A	A	532	192.068	105.926	20.308	1.00	107.41	A16S
ATOM	10957	C4*	A	A	532	190.697	106.259	20.866	1.00	107.41	A16S
ATOM	10958	O4*	A	A	532	190.481	107.691	20.835	1.00	107.41	A16S
ATOM	10959	C1*	A	A	532	189.092	107.951	20.757	1.00	107.41	A16S
ATOM	10960	N9	A	A	532	188.828	108.881	19.655	1.00	201.30	A16S
ATOM	10961	C4	A	A	532	187.797	109.793	19.602	1.00	201.30	A16S
ATOM	10962	N3	A	A	532	186.854	110.020	20.536	1.00	201.30	A16S
ATOM	10963	C2	A	A	532	186.008	110.971	20.133	1.00	201.30	A16S
ATOM	10964	N1	A	A	532	185.998	111.670	18.988	1.00	201.30	A16S
ATOM	10965	C6	A	A	532	186.959	111.420	18.070	1.00	201.30	A16S
ATOM	10966	N6	A	A	532	186.950	112.118	16.928	1.00	201.30	A16S
ATOM	10967	C5	A	A	532	187.919	110.431	18.378	1.00	201.30	A16S
ATOM	10968	N7	A	A	532	189.012	109.938	17.676	1.00	201.30	A16S
ATOM	10969	C8	A	A	532	189.518	109.028	18.475	1.00	201.30	A16S
ATOM	10970	C2*	A	A	532	188.354	106.613	20.632	1.00	107.41	A16S
ATOM	10971	O2*	A	A	532	187.787	106.277	21.882	1.00	107.41	A16S
ATOM	10972	C3*	A	A	532	189.464	105.653	20.203	1.00	107.41	A16S
ATOM	10973	O3*	A	A	532	189.205	104.348	20.737	1.00	107.41	A16S
ATOM	10974	P	A	A	533	188.305	103.279	19.925	1.00	61.73	A16S
ATOM	10975	O1P	A	A	533	187.392	102.680	20.954	1.00	48.06	A16S
ATOM	10976	O2P	A	A	533	189.218	102.403	19.179	1.00	48.06	A16S
ATOM	10977	O5*	A	A	533	187.535	104.116	18.802	1.00	61.73	A16S
ATOM	10978	C5*	A	A	533	186.353	104.869	19.111	1.00	61.73	A16S
ATOM	10979	C4*	A	A	533	185.192	104.455	18.226	1.00	61.73	A16S
ATOM	10980	O4*	A	A	533	185.451	103.173	17.609	1.00	61.73	A16S
ATOM	10981	C1*	A	A	533	184.259	102.418	17.566	1.00	61.73	A16S
ATOM	10982	N9	A	A	533	184.573	101.019	17.878	1.00	48.06	A16S
ATOM	10983	C4	A	A	533	184.169	99.918	17.151	1.00	48.06	A16S
ATOM	10984	N3	A	A	533	183.365	99.897	16.076	1.00	48.06	A16S
ATOM	10985	C2	A	A	533	183.225	98.660	15.617	1.00	48.06	A16S
ATOM	10986	N1	A	A	533	183.752	97.526	16.069	1.00	48.06	A16S
ATOM	10987	C6	A	A	533	184.545	97.571	17.153	1.00	48.06	A16S
ATOM	10988	N6	A	A	533	185.057	96.427	17.606	1.00	48.06	A16S
ATOM	10989	C5	A	A	533	184.779	98.828	17.741	1.00	48.06	A16S
ATOM	10990	N7	A	A	533	185.525	99.221	18.844	1.00	48.06	A16S
ATOM	10991	C8	A	A	533	185.360	100.524	18.891	1.00	48.06	A16S
ATOM	10992	C2*	A	A	533	183.151	103.140	18.349	1.00	61.73	A16S
ATOM	10993	O2*	A	A	533	182.088	103.472	17.482	1.00	61.73	A16S
ATOM	10994	C3*	A	A	533	183.908	104.293	19.028	1.00	61.73	A16S
ATOM	10995	O3*	A	A	533	183.292	105.593	19.270	1.00	61.73	A16S
ATOM	10996	P	U	A	534	182.097	106.168	18.331	1.00	60.09	A16S
ATOM	10997	O1P	U	A	534	182.362	105.832	16.911	1.00	72.68	A16S
ATOM	10998	O2P	U	A	534	181.882	107.588	18.692	1.00	72.68	A16S
ATOM	10999	O5*	U	A	534	180.812	105.398	18.863	1.00	60.09	A16S
ATOM	11000	C5*	U	A	534	180.668	105.150	20.267	1.00	60.09	A16S
ATOM	11001	C4*	U	A	534	179.216	105.036	20.647	1.00	60.09	A16S
ATOM	11002	O4*	U	A	534	178.553	106.318	20.590	1.00	60.09	A16S

ATOM	11003	C1*	U	A	534	177.176	106.109	20.366	1.00	60.09	A16S
ATOM	11004	N1	U	A	534	176.725	107.017	19.313	1.00	72.68	A16S
ATOM	11005	C6	U	A	534	177.602	107.576	18.422	1.00	72.68	A16S
ATOM	11006	C2	U	A	534	175.384	107.299	19.264	1.00	72.68	A16S
ATOM	11007	O2	U	A	534	174.575	106.787	20.012	1.00	72.68	A16S
ATOM	11008	N3	U	A	534	175.018	108.197	18.298	1.00	72.68	A16S
ATOM	11009	C4	U	A	534	175.846	108.820	17.388	1.00	72.68	A16S
ATOM	11010	O4	U	A	534	175.382	109.681	16.639	1.00	72.68	A16S
ATOM	11011	C5	U	A	534	177.221	108.443	17.485	1.00	72.68	A16S
ATOM	11012	C2*	U	A	534	176.953	104.627	20.070	1.00	60.09	A16S
ATOM	11013	O2*	U	A	534	176.433	103.997	21.221	1.00	60.09	A16S
ATOM	11014	C3*	U	A	534	178.366	104.139	19.778	1.00	60.09	A16S
ATOM	11015	O3*	U	A	534	178.509	102.810	20.217	1.00	60.09	A16S
ATOM	11016	P	A	A	535	179.183	101.732	19.253	1.00	51.57	A16S
ATOM	11017	O1P	A	A	535	178.855	100.434	19.926	1.00	55.05	A16S
ATOM	11018	O2P	A	A	535	180.597	102.111	19.016	1.00	55.05	A16S
ATOM	11019	O5*	A	A	535	178.406	101.857	17.862	1.00	51.57	A16S
ATOM	11020	C5*	A	A	535	177.029	101.450	17.761	1.00	51.57	A16S
ATOM	11021	C4*	A	A	535	176.821	100.523	16.583	1.00	51.57	A16S
ATOM	11022	O4*	A	A	535	176.692	101.260	15.345	1.00	51.57	A16S
ATOM	11023	C1*	A	A	535	177.490	100.654	14.364	1.00	51.57	A16S
ATOM	11024	N9	A	A	535	177.853	101.656	13.373	1.00	55.05	A16S
ATOM	11025	C4	A	A	535	177.612	101.556	12.027	1.00	55.05	A16S
ATOM	11026	N3	A	A	535	177.050	100.525	11.374	1.00	55.05	A16S
ATOM	11027	C2	A	A	535	176.964	100.783	10.081	1.00	55.05	A16S
ATOM	11028	N1	A	A	535	177.338	101.871	9.416	1.00	55.05	A16S
ATOM	11029	C6	A	A	535	177.890	102.892	10.099	1.00	55.05	A16S
ATOM	11030	N6	A	A	535	178.249	103.989	9.429	1.00	55.05	A16S
ATOM	11031	C5	A	A	535	178.048	102.738	11.478	1.00	55.05	A16S
ATOM	11032	N7	A	A	535	178.576	103.565	12.455	1.00	55.05	A16S
ATOM	11033	C8	A	A	535	178.445	102.871	13.558	1.00	55.05	A16S
ATOM	11034	C2*	A	A	535	178.620	99.981	15.122	1.00	51.57	A16S
ATOM	11035	O2*	A	A	535	179.146	98.947	14.326	1.00	51.57	A16S
ATOM	11036	C3*	A	A	535	177.865	99.449	16.333	1.00	51.57	A16S
ATOM	11037	O3*	A	A	535	177.156	98.290	15.942	1.00	51.57	A16S
ATOM	11038	P	C	A	536	176.915	97.117	17.003	1.00	50.80	A16S
ATOM	11039	O1P	C	A	536	175.745	96.315	16.542	1.00	47.54	A16S
ATOM	11040	O2P	C	A	536	176.889	97.747	18.357	1.00	47.54	A16S
ATOM	11041	O5*	C	A	536	178.233	96.223	16.891	1.00	50.80	A16S
ATOM	11042	C5*	C	A	536	178.312	95.115	15.965	1.00	50.80	A16S
ATOM	11043	C4*	C	A	536	179.411	94.174	16.380	1.00	50.80	A16S
ATOM	11044	O4*	C	A	536	180.665	94.885	16.301	1.00	50.80	A16S
ATOM	11045	C1*	C	A	536	181.476	94.548	17.408	1.00	50.80	A16S
ATOM	11046	N1	C	A	536	181.754	95.790	18.146	1.00	47.54	A16S
ATOM	11047	C6	C	A	536	181.192	96.969	17.745	1.00	47.54	A16S
ATOM	11048	C2	C	A	536	182.593	95.754	19.262	1.00	47.54	A16S
ATOM	11049	O2	C	A	536	183.101	94.680	19.599	1.00	47.54	A16S
ATOM	11050	N3	C	A	536	182.830	96.893	19.940	1.00	47.54	A16S
ATOM	11051	C4	C	A	536	182.272	98.037	19.539	1.00	47.54	A16S
ATOM	11052	N4	C	A	536	182.529	99.144	20.237	1.00	47.54	A16S
ATOM	11053	C5	C	A	536	181.423	98.102	18.405	1.00	47.54	A16S
ATOM	11054	C2*	C	A	536	180.747	93.479	18.232	1.00	50.80	A16S
ATOM	11055	O2*	C	A	536	181.234	92.189	17.924	1.00	50.80	A16S
ATOM	11056	C3*	C	A	536	179.300	93.693	17.815	1.00	50.80	A16S
ATOM	11057	O3*	C	A	536	178.554	92.488	17.876	1.00	50.80	A16S
ATOM	11058	P	G	A	537	177.401	92.320	18.975	1.00	40.90	A16S
ATOM	11059	O1P	G	A	537	176.657	91.075	18.686	1.00	60.03	A16S
ATOM	11060	O2P	G	A	537	176.668	93.602	19.028	1.00	60.03	A16S
ATOM	11061	O5*	G	A	537	178.191	92.094	20.339	1.00	40.90	A16S
ATOM	11062	C5*	G	A	537	178.716	90.793	20.677	1.00	40.90	A16S
ATOM	11063	C4*	G	A	537	179.442	90.830	22.006	1.00	40.90	A16S
ATOM	11064	O4*	G	A	537	180.665	91.600	21.882	1.00	40.90	A16S
ATOM	11065	C1*	G	A	537	180.913	92.296	23.090	1.00	40.90	A16S
ATOM	11066	N9	G	A	537	180.855	93.725	22.807	1.00	60.03	A16S
ATOM	11067	C4	G	A	537	181.387	94.727	23.579	1.00	60.03	A16S
ATOM	11068	N3	G	A	537	182.080	94.561	24.722	1.00	60.03	A16S
ATOM	11069	C2	G	A	537	182.462	95.710	25.236	1.00	60.03	A16S
ATOM	11070	N2	G	A	537	183.177	95.725	26.366	1.00	60.03	A16S
ATOM	11071	N1	G	A	537	182.176	96.927	24.678	1.00	60.03	A16S
ATOM	11072	C6	G	A	537	181.454	97.122	23.507	1.00	60.03	A16S
ATOM	11073	O6	G	A	537	181.235	98.266	23.099	1.00	60.03	A16S
ATOM	11074	C5	G	A	537	181.052	95.899	22.938	1.00	60.03	A16S
ATOM	11075	N7	G	A	537	180.333	95.640	21.779	1.00	60.03	A16S
ATOM	11076	C8	G	A	537	180.244	94.339	21.740	1.00	60.03	A16S
ATOM	11077	C2*	G	A	537	179.828	91.898	24.093	1.00	40.90	A16S
ATOM	11078	O2*	G	A	537	180.265	90.838	24.924	1.00	40.90	A16S
ATOM	11079	C3*	G	A	537	178.700	91.475	23.167	1.00	40.90	A16S

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ATOM  11080  O3*  G   A 537     177.804  90.592  23.821  1.00 40.90      A16S
ATOM  11081  P    G   A 538     176.548  91.195  24.607  1.00 46.21      A16S
ATOM  11082  O1P  G   A 538     175.650  90.070  24.962  1.00 58.39      A16S
ATOM  11083  O2P  G   A 538     176.040  92.312  23.787  1.00 58.39      A16S
ATOM  11084  O5*  G   A 538     177.168  91.775  25.952  1.00 46.21      A16S
ATOM  11085  C5*  G   A 538     177.608  90.882  26.989  1.00 46.21      A16S
ATOM  11086  C4*  G   A 538     178.178  91.653  28.165  1.00 46.21      A16S
ATOM  11087  O4*  G   A 538     179.333  92.421  27.737  1.00 46.21      A16S
ATOM  11088  C1*  G   A 538     179.402  93.627  28.471  1.00 46.21      A16S
ATOM  11089  N9   G   A 538     179.244  94.723  27.525  1.00 58.39      A16S
ATOM  11090  C4   G   A 538     179.673  96.015  27.677  1.00 58.39      A16S
ATOM  11091  N3   G   A 538     180.327  96.512  28.744  1.00 58.39      A16S
ATOM  11092  C2   G   A 538     180.600  97.797  28.597  1.00 58.39      A16S
ATOM  11093  N2   G   A 538     181.254  98.454  29.566  1.00 58.39      A16S
ATOM  11094  N1   G   A 538     180.255  98.533  27.489  1.00 58.39      A16S
ATOM  11095  C6   G   A 538     179.586  98.032  26.376  1.00 58.39      A16S
ATOM  11096  O6   G   A 538     179.329  98.771  25.417  1.00 58.39      A16S
ATOM  11097  C5   G   A 538     179.288  96.664  26.524  1.00 58.39      A16S
ATOM  11098  N7   G   A 538     178.631  95.799  25.666  1.00 58.39      A16S
ATOM  11099  C8   G   A 538     178.629  94.660  26.299  1.00 58.39      A16S
ATOM  11100  C2*  G   A 538     178.286  93.593  29.512  1.00 46.21      A16S
ATOM  11101  O2*  G   A 538     178.805  92.981  30.669  1.00 46.21      A16S
ATOM  11102  C3*  G   A 538     177.275  92.665  28.858  1.00 46.21      A16S
ATOM  11103  O3*  G   A 538     176.459  92.038  29.845  1.00 46.21      A16S
ATOM  11104  P    A   A 539     175.187  92.822  30.440  1.00 60.98      A16S
ATOM  11105  O1P  A   A 539     174.556  91.950  31.467  1.00 76.86      A16S
ATOM  11106  O2P  A   A 539     174.362  93.335  29.320  1.00 76.86      A16S
ATOM  11107  O5*  A   A 539     175.830  94.081  31.173  1.00 60.98      A16S
ATOM  11108  C5*  A   A 539     176.603  93.915  32.373  1.00 60.98      A16S
ATOM  11109  C4*  A   A 539     177.219  95.225  32.782  1.00 60.98      A16S
ATOM  11110  O4*  A   A 539     178.090  95.696  31.728  1.00 60.98      A16S
ATOM  11111  C1*  A   A 539     178.026  97.104  31.651  1.00 60.98      A16S
ATOM  11112  N9   A   A 539     177.543  97.476  30.324  1.00 76.86      A16S
ATOM  11113  C4   A   A 539     177.595  98.738  29.781  1.00 76.86      A16S
ATOM  11114  N3   A   A 539     178.076  99.852  30.355  1.00 76.86      A16S
ATOM  11115  C2   A   A 539     177.973 100.886  29.528  1.00 76.86      A16S
ATOM  11116  N1   A   A 539     177.486 100.932  28.289  1.00 76.86      A16S
ATOM  11117  C6   A   A 539     177.011  99.797  27.744  1.00 76.86      A16S
ATOM  11118  N6   A   A 539     176.533  99.844  26.506  1.00 76.86      A16S
ATOM  11119  C5   A   A 539     177.055  98.628  28.519  1.00 76.86      A16S
ATOM  11120  N7   A   A 539     176.655  97.322  28.269  1.00 76.86      A16S
ATOM  11121  C8   A   A 539     176.963  96.681  29.368  1.00 76.86      A16S
ATOM  11122  C2*  A   A 539     177.096  97.589  32.756  1.00 60.98      A16S
ATOM  11123  O2*  A   A 539     177.882  97.914  33.876  1.00 60.98      A16S
ATOM  11124  C3*  A   A 539     176.238  96.359  32.997  1.00 60.98      A16S
ATOM  11125  O3*  A   A 539     175.710  96.328  34.312  1.00 60.98      A16S
ATOM  11126  P    G   A 540     174.167  96.705  34.555  1.00 51.62      A16S
ATOM  11127  O1P  G   A 540     173.829  96.178  35.899  1.00 62.21      A16S
ATOM  11128  O2P  G   A 540     173.374  96.262  33.374  1.00 62.21      A16S
ATOM  11129  O5*  G   A 540     174.138  98.303  34.570  1.00 51.62      A16S
ATOM  11130  C5*  G   A 540     174.741  99.046  35.641  1.00 51.62      A16S
ATOM  11131  C4*  G   A 540     174.848 100.508  35.279  1.00 51.62      A16S
ATOM  11132  O4*  G   A 540     175.766 100.671  34.174  1.00 51.62      A16S
ATOM  11133  C1*  G   A 540     175.339 101.739  33.348  1.00 51.62      A16S
ATOM  11134  N9   G   A 540     175.035 101.202  32.026  1.00 62.21      A16S
ATOM  11135  C4   G   A 540     174.863 101.926  30.870  1.00 62.21      A16S
ATOM  11136  N3   G   A 540     174.967 103.263  30.749  1.00 62.21      A16S
ATOM  11137  C2   G   A 540     174.720 103.664  29.518  1.00 62.21      A16S
ATOM  11138  N2   G   A 540     174.770 104.959  29.223  1.00 62.21      A16S
ATOM  11139  N1   G   A 540     174.402 102.827  28.485  1.00 62.21      A16S
ATOM  11140  C6   G   A 540     174.284 101.447  28.584  1.00 62.21      A16S
ATOM  11141  O6   G   A 540     173.973 100.779  27.589  1.00 62.21      A16S
ATOM  11142  C5   G   A 540     174.547 100.998  29.902  1.00 62.21      A16S
ATOM  11143  N7   G   A 540     174.534  99.714  30.433  1.00 62.21      A16S
ATOM  11144  C8   G   A 540     174.835  99.884  31.692  1.00 62.21      A16S
ATOM  11145  C2*  G   A 540     174.094 102.348  33.992  1.00 51.62      A16S
ATOM  11146  O2*  G   A 540     174.461 103.459  34.783  1.00 51.62      A16S
ATOM  11147  C3*  G   A 540     173.573 101.176  34.807  1.00 51.62      A16S
ATOM  11148  O3*  G   A 540     172.760 101.592  35.881  1.00 51.62      A16S
ATOM  11149  P    G   A 541     171.169 101.483  35.747  1.00 48.14      A16S
ATOM  11150  O1P  G   A 541     170.581 101.853  37.058  1.00 65.93      A16S
ATOM  11151  O2P  G   A 541     170.861 100.165  35.150  1.00 65.93      A16S
ATOM  11152  O5*  G   A 541     170.812 102.615  34.695  1.00 48.14      A16S
ATOM  11153  C5*  G   A 541     171.154 103.977  34.974  1.00 48.14      A16S
ATOM  11154  C4*  G   A 541     171.214 104.780  33.702  1.00 48.14      A16S
ATOM  11155  O4*  G   A 541     172.207 104.201  32.814  1.00 48.14      A16S
ATOM  11156  C1*  G   A 541     171.828 104.436  31.466  1.00 48.14      A16S
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ATOM  11157  N9  G   A 541     171.648 103.162  30.776  1.00 65.93      A16S
ATOM  11158  C4  G   A 541     171.347 103.033  29.447  1.00 65.93      A16S
ATOM  11159  N3  G   A 541     171.219 104.049  28.571  1.00 65.93      A16S
ATOM  11160  C2  G   A 541     170.908 103.625  27.371  1.00 65.93      A16S
ATOM  11161  N2  G   A 541     170.763 104.512  26.380  1.00 65.93      A16S
ATOM  11162  N1  G   A 541     170.723 102.303  27.056  1.00 65.93      A16S
ATOM  11163  C6  G   A 541     170.847 101.242  27.949  1.00 65.93      A16S
ATOM  11164  O6  G   A 541     170.652 100.088  27.568  1.00 65.93      A16S
ATOM  11165  C5  G   A 541     171.195 101.685  29.234  1.00 65.93      A16S
ATOM  11166  N7  G   A 541     171.426 100.970  30.401  1.00 65.93      A16S
ATOM  11167  C8  G   A 541     171.696 101.888  31.291  1.00 65.93      A16S
ATOM  11168  C2* G   A 541     170.502 105.191  31.484  1.00 48.14      A16S
ATOM  11169  O2* G   A 541     170.733 106.576  31.340  1.00 48.14      A16S
ATOM  11170  C3* G   A 541     169.961 104.804  32.848  1.00 48.14      A16S
ATOM  11171  O3* G   A 541     168.968 105.690  33.296  1.00 48.14      A16S
ATOM  11172  P   G   A 542     167.430 105.301  33.062  1.00 49.02      A16S
ATOM  11173  O1P G   A 542     166.622 106.346  33.717  1.00 42.26      A16S
ATOM  11174  O2P G   A 542     167.216 103.859  33.412  1.00 42.26      A16S
ATOM  11175  O5* G   A 542     167.219 105.500  31.497  1.00 49.02      A16S
ATOM  11176  C5* G   A 542     167.423 106.796  30.905  1.00 49.02      A16S
ATOM  11177  C4* G   A 542     167.225 106.738  29.416  1.00 49.02      A16S
ATOM  11178  O4* G   A 542     168.185 105.822  28.837  1.00 49.02      A16S
ATOM  11179  C1* G   A 542     167.610 105.178  27.721  1.00 49.02      A16S
ATOM  11180  N9  G   A 542     167.604 103.738  27.947  1.00 42.26      A16S
ATOM  11181  C4  G   A 542     167.318 102.787  26.998  1.00 42.26      A16S
ATOM  11182  N3  G   A 542     167.032 103.026  25.700  1.00 42.26      A16S
ATOM  11183  C2  G   A 542     166.778 101.914  25.036  1.00 42.26      A16S
ATOM  11184  N2  G   A 542     166.483 101.979  23.737  1.00 42.26      A16S
ATOM  11185  N1  G   A 542     166.793 100.664  25.600  1.00 42.26      A16S
ATOM  11186  C6  G   A 542     167.073 100.393  26.931  1.00 42.26      A16S
ATOM  11187  O6  G   A 542     167.035  99.234  27.335  1.00 42.26      A16S
ATOM  11188  C5  G   A 542     167.365 101.583  27.659  1.00 42.26      A16S
ATOM  11189  N7  G   A 542     167.701 101.769  28.993  1.00 42.26      A16S
ATOM  11190  C8  G   A 542     167.838 103.063  29.117  1.00 42.26      A16S
ATOM  11191  C2* G   A 542     166.188 105.709  27.556  1.00 49.02      A16S
ATOM  11192  O2* G   A 542     166.180 106.721  26.575  1.00 49.02      A16S
ATOM  11193  C3* G   A 542     165.883 106.215  28.956  1.00 49.02      A16S
ATOM  11194  O3* G   A 542     164.894 107.222  28.946  1.00 49.02      A16S
ATOM  11195  P   C   A 543     163.354 106.798  28.867  1.00 32.38      A16S
ATOM  11196  O1P C   A 543     162.473 107.991  28.995  1.00 46.98      A16S
ATOM  11197  O2P C   A 543     163.201 105.666  29.807  1.00 46.98      A16S
ATOM  11198  O5* C   A 543     163.180 106.261  27.382  1.00 32.38      A16S
ATOM  11199  C5* C   A 543     163.310 107.161  26.282  1.00 32.38      A16S
ATOM  11200  C4* C   A 543     163.045 106.453  24.988  1.00 32.38      A16S
ATOM  11201  O4* C   A 543     164.082 105.474  24.739  1.00 32.38      A16S
ATOM  11202  C1* C   A 543     163.530 104.378  24.023  1.00 32.38      A16S
ATOM  11203  N1  C   A 543     163.653 103.150  24.834  1.00 46.98      A16S
ATOM  11204  C6  C   A 543     163.998 103.210  26.155  1.00 46.98      A16S
ATOM  11205  C2  C   A 543     163.388 101.908  24.230  1.00 46.98      A16S
ATOM  11206  O2  C   A 543     163.079 101.872  23.034  1.00 46.98      A16S
ATOM  11207  N3  C   A 543     163.473 100.786  24.971  1.00 46.98      A16S
ATOM  11208  C4  C   A 543     163.809 100.860  26.259  1.00 46.98      A16S
ATOM  11209  N4  C   A 543     163.888  99.729  26.948  1.00 46.98      A16S
ATOM  11210  C5  C   A 543     164.084 102.099  26.897  1.00 46.98      A16S
ATOM  11211  C2* C   A 543     162.058 104.695  23.770  1.00 32.38      A16S
ATOM  11212  O2* C   A 543     161.943 105.328  22.517  1.00 32.38      A16S
ATOM  11213  C3* C   A 543     161.757 105.653  24.908  1.00 32.38      A16S
ATOM  11214  O3* C   A 543     160.617 106.455  24.641  1.00 32.38      A16S
ATOM  11215  P   G   A 544     159.165 105.934  25.094  1.00 31.40      A16S
ATOM  11216  O1P G   A 544     158.188 106.994  24.733  1.00 47.17      A16S
ATOM  11217  O2P G   A 544     159.254 105.456  26.499  1.00 47.17      A16S
ATOM  11218  O5* G   A 544     158.931 104.642  24.191  1.00 31.40      A16S
ATOM  11219  C5* G   A 544     159.139 104.690  22.772  1.00 31.40      A16S
ATOM  11220  C4* G   A 544     158.912 103.332  22.152  1.00 31.40      A16S
ATOM  11221  O4* G   A 544     159.990 102.429  22.477  1.00 31.40      A16S
ATOM  11222  C1* G   A 544     159.498 101.101  22.491  1.00 31.40      A16S
ATOM  11223  N9  G   A 544     159.868 100.481  23.757  1.00 47.17      A16S
ATOM  11224  C4  G   A 544     160.023  99.141  24.002  1.00 47.17      A16S
ATOM  11225  N3  G   A 544     159.862  98.149  23.110  1.00 47.17      A16S
ATOM  11226  C2  G   A 544     160.092  96.963  23.648  1.00 47.17      A16S
ATOM  11227  N2  G   A 544     159.988  95.858  22.900  1.00 47.17      A16S
ATOM  11228  N1  G   A 544     160.441  96.772  24.960  1.00 47.17      A16S
ATOM  11229  C6  G   A 544     160.601  97.784  25.895  1.00 47.17      A16S
ATOM  11230  O6  G   A 544     160.897  97.507  27.059  1.00 47.17      A16S
ATOM  11231  C5  G   A 544     160.374  99.051  25.329  1.00 47.17      A16S
ATOM  11232  N7  G   A 544     160.445 100.304  25.904  1.00 47.17      A16S
ATOM  11233  C8  G   A 544     160.133 101.120  24.937  1.00 47.17      A16S
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ATOM  11234  C2* G   A 544     157.987 101.147  22.251  1.00 31.40      A16S
ATOM  11235  O2* G   A 544     157.674 100.828  20.909  1.00 31.40      A16S
ATOM  11236  C3* G   A 544     157.655 102.595  22.574  1.00 31.40      A16S
ATOM  11237  O3* G   A 544     156.518 103.026  21.838  1.00 31.40      A16S
ATOM  11238  P   C   A 545     155.058 102.816  22.457  1.00 44.36      A16S
ATOM  11239  O1P C   A 545     154.127 103.610  21.631  1.00 54.76      A16S
ATOM  11240  O2P C   A 545     155.123 103.044  23.926  1.00 54.76      A16S
ATOM  11241  O5* C   A 545     154.772 101.276  22.203  1.00 44.36      A16S
ATOM  11242  C5* C   A 545     154.033 100.502  23.151  1.00 44.36      A16S
ATOM  11243  C4* C   A 545     154.262  99.036  22.901  1.00 44.36      A16S
ATOM  11244  O4* C   A 545     155.675  98.757  23.025  1.00 44.36      A16S
ATOM  11245  C1* C   A 545     155.860  97.483  23.609  1.00 44.36      A16S
ATOM  11246  N1  C   A 545     156.553  97.678  24.886  1.00 54.76      A16S
ATOM  11247  C6  C   A 545     156.793  98.933  25.358  1.00 54.76      A16S
ATOM  11248  C2  C   A 545     156.955  96.562  25.617  1.00 54.76      A16S
ATOM  11249  O2  C   A 545     156.731  95.433  25.161  1.00 54.76      A16S
ATOM  11250  N3  C   A 545     157.574  96.735  26.800  1.00 54.76      A16S
ATOM  11251  C4  C   A 545     157.795  97.964  27.257  1.00 54.76      A16S
ATOM  11252  N4  C   A 545     158.405  98.094  28.438  1.00 54.76      A16S
ATOM  11253  C5  C   A 545     157.401  99.119  26.527  1.00 54.76      A16S
ATOM  11254  C2* C   A 545     154.479  96.854  23.799  1.00 44.36      A16S
ATOM  11255  O2* C   A 545     154.146  96.046  22.688  1.00 44.36      A16S
ATOM  11256  C3* C   A 545     153.600  98.087  23.885  1.00 44.36      A16S
ATOM  11257  O3* C   A 545     152.257  97.808  23.537  1.00 44.36      A16S
ATOM  11258  P   G   A 546     151.156  97.741  24.694  1.00 36.58      A16S
ATOM  11259  O1P G   A 546     149.840  97.420  24.079  1.00 57.72      A16S
ATOM  11260  O2P G   A 546     151.302  98.965  25.521  1.00 57.72      A16S
ATOM  11261  O5* G   A 546     151.639  96.497  25.562  1.00 36.58      A16S
ATOM  11262  C5* G   A 546     151.819  95.214  24.946  1.00 36.58      A16S
ATOM  11263  C4* G   A 546     152.439  94.228  25.910  1.00 36.58      A16S
ATOM  11264  O4* G   A 546     153.801  94.611  26.222  1.00 36.58      A16S
ATOM  11265  C1* G   A 546     154.127  94.188  27.534  1.00 36.58      A16S
ATOM  11266  N9  G   A 546     154.519  95.367  28.307  1.00 57.72      A16S
ATOM  11267  C4  G   A 546     155.302  95.394  29.439  1.00 57.72      A16S
ATOM  11268  N3  G   A 546     155.860  94.328  30.045  1.00 57.72      A16S
ATOM  11269  C2  G   A 546     156.559  94.678  31.121  1.00 57.72      A16S
ATOM  11270  N2  G   A 546     157.180  93.744  31.855  1.00 57.72      A16S
ATOM  11271  N1  G   A 546     156.697  95.967  31.563  1.00 57.72      A16S
ATOM  11272  C6  G   A 546     156.125  97.077  30.963  1.00 57.72      A16S
ATOM  11273  O6  G   A 546     156.296  98.191  31.461  1.00 57.72      A16S
ATOM  11274  C5  G   A 546     155.377  96.722  29.802  1.00 57.72      A16S
ATOM  11275  N7  G   A 546     154.667  97.515  28.915  1.00 57.72      A16S
ATOM  11276  C8  G   A 546     154.177  96.673  28.048  1.00 57.72      A16S
ATOM  11277  C2* G   A 546     152.906  93.446  28.092  1.00 36.58      A16S
ATOM  11278  O2* G   A 546     153.064  92.056  27.874  1.00 36.58      A16S
ATOM  11279  C3* G   A 546     151.766  94.025  27.255  1.00 36.58      A16S
ATOM  11280  O3* G   A 546     150.655  93.128  27.135  1.00 36.58      A16S
ATOM  11281  P   A   A 547     149.695  92.843  28.404  1.00 41.70      A16S
ATOM  11282  O1P A   A 547     148.375  92.371  27.886  1.00 39.06      A16S
ATOM  11283  O2P A   A 547     149.731  94.001  29.328  1.00 39.06      A16S
ATOM  11284  O5* A   A 547     150.407  91.632  29.148  1.00 41.70      A16S
ATOM  11285  C5* A   A 547     149.822  90.338  29.120  1.00 41.70      A16S
ATOM  11286  C4* A   A 547     150.554  89.464  28.141  1.00 41.70      A16S
ATOM  11287  O4* A   A 547     151.917  89.265  28.594  1.00 41.70      A16S
ATOM  11288  C1* A   A 547     152.160  87.891  28.777  1.00 41.70      A16S
ATOM  11289  N9  A   A 547     153.048  87.752  29.924  1.00 39.06      A16S
ATOM  11290  C4  A   A 547     154.408  87.603  29.860  1.00 39.06      A16S
ATOM  11291  N3  A   A 547     155.169  87.556  28.759  1.00 39.06      A16S
ATOM  11292  C2  A   A 547     156.450  87.389  29.083  1.00 39.06      A16S
ATOM  11293  N1  A   A 547     157.008  87.276  30.290  1.00 39.06      A16S
ATOM  11294  C6  A   A 547     156.211  87.331  31.372  1.00 39.06      A16S
ATOM  11295  N6  A   A 547     156.765  87.224  32.572  1.00 39.06      A16S
ATOM  11296  C5  A   A 547     154.837  87.502  31.164  1.00 39.06      A16S
ATOM  11297  N7  A   A 547     153.768  87.594  32.038  1.00 39.06      A16S
ATOM  11298  C8  A   A 547     152.734  87.742  31.253  1.00 39.06      A16S
ATOM  11299  C2* A   A 547     150.787  87.237  28.930  1.00 41.70      A16S
ATOM  11300  O2* A   A 547     150.807  85.861  28.632  1.00 41.70      A16S
ATOM  11301  C3* A   A 547     149.946  88.081  27.980  1.00 41.70      A16S
ATOM  11302  O3* A   A 547     150.127  87.677  26.624  1.00 41.70      A16S
ATOM  11303  P   G   A 548     149.322  88.435  25.449  1.00 42.30      A16S
ATOM  11304  O1P G   A 548     147.927  88.764  25.899  1.00 35.18      A16S
ATOM  11305  O2P G   A 548     149.539  87.703  24.181  1.00 35.18      A16S
ATOM  11306  O5* G   A 548     150.083  89.812  25.291  1.00 42.30      A16S
ATOM  11307  C5* G   A 548     151.083  89.969  24.300  1.00 42.30      A16S
ATOM  11308  C4* G   A 548     152.385  90.299  24.956  1.00 42.30      A16S
ATOM  11309  O4* G   A 548     152.869  89.136  25.666  1.00 42.30      A16S
ATOM  11310  C1* G   A 548     154.282  89.058  25.537  1.00 42.30      A16S
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ATOM  11311  N9  G   A 548     154.610  87.799  24.870  1.00 35.18      A16S
ATOM  11312  C4  G   A 548     155.858  87.261  24.689  1.00 35.18      A16S
ATOM  11313  N3  G   A 548     157.020  87.810  25.081  1.00 35.18      A16S
ATOM  11314  C2  G   A 548     158.051  87.046  24.773  1.00 35.18      A16S
ATOM  11315  N2  G   A 548     159.288  87.444  25.080  1.00 35.18      A16S
ATOM  11316  N1  G   A 548     157.943  85.839  24.144  1.00 35.18      A16S
ATOM  11317  C6  G   A 548     156.749  85.260  23.740  1.00 35.18      A16S
ATOM  11318  O6  G   A 548     156.752  84.158  23.192  1.00 35.18      A16S
ATOM  11319  C5  G   A 548     155.651  86.069  24.045  1.00 35.18      A16S
ATOM  11320  N7  G   A 548     154.306  85.866  23.803  1.00 35.18      A16S
ATOM  11321  C8  G   A 548     153.727  86.915  24.309  1.00 35.18      A16S
ATOM  11322  C2* G   A 548     154.744  90.294  24.757  1.00 42.30      A16S
ATOM  11323  O2* G   A 548     155.107  91.311  25.665  1.00 42.30      A16S
ATOM  11324  C3* G   A 548     153.488  90.653  23.984  1.00 42.30      A16S
ATOM  11325  O3* G   A 548     153.411  92.024  23.675  1.00 42.30      A16S
ATOM  11326  P   C   A 549     153.506  92.493  22.151  1.00 32.45      A16S
ATOM  11327  O1P C   A 549     152.998  93.878  22.071  1.00 29.33      A16S
ATOM  11328  O2P C   A 549     152.927  91.446  21.265  1.00 29.33      A16S
ATOM  11329  O5* C   A 549     155.072  92.548  21.916  1.00 32.45      A16S
ATOM  11330  C5* C   A 549     155.922  93.235  22.847  1.00 32.45      A16S
ATOM  11331  C4* C   A 549     157.320  92.687  22.760  1.00 32.45      A16S
ATOM  11332  O4* C   A 549     157.296  91.303  23.139  1.00 32.45      A16S
ATOM  11333  C1* C   A 549     158.310  90.616  22.453  1.00 32.45      A16S
ATOM  11334  N1  C   A 549     157.765  89.391  21.893  1.00 29.33      A16S
ATOM  11335  C6  C   A 549     156.422  89.203  21.767  1.00 29.33      A16S
ATOM  11336  C2  C   A 549     158.646  88.406  21.520  1.00 29.33      A16S
ATOM  11337  O2  C   A 549     159.856  88.636  21.606  1.00 29.33      A16S
ATOM  11338  N3  C   A 549     158.173  87.230  21.067  1.00 29.33      A16S
ATOM  11339  C4  C   A 549     156.861  87.039  20.969  1.00 29.33      A16S
ATOM  11340  N4  C   A 549     156.434  85.863  20.529  1.00 29.33      A16S
ATOM  11341  C5  C   A 549     155.930  88.048  21.319  1.00 29.33      A16S
ATOM  11342  C2* C   A 549     158.946  91.555  21.445  1.00 32.45      A16S
ATOM  11343  O2* C   A 549     160.158  92.012  21.990  1.00 32.45      A16S
ATOM  11344  C3* C   A 549     157.922  92.667  21.371  1.00 32.45      A16S
ATOM  11345  O3* C   A 549     158.576  93.879  21.126  1.00 32.45      A16S
ATOM  11346  P   G   A 550     159.011  94.244  19.639  1.00 47.09      A16S
ATOM  11347  O1P G   A 550     159.564  95.624  19.733  1.00 32.67      A16S
ATOM  11348  O2P G   A 550     157.867  93.949  18.714  1.00 32.67      A16S
ATOM  11349  O5* G   A 550     160.199  93.231  19.319  1.00 47.09      A16S
ATOM  11350  C5* G   A 550     160.416  92.762  17.980  1.00 47.09      A16S
ATOM  11351  C4* G   A 550     161.469  91.695  17.972  1.00 47.09      A16S
ATOM  11352  O4* G   A 550     161.059  90.626  18.856  1.00 47.09      A16S
ATOM  11353  C1* G   A 550     161.493  89.384  18.333  1.00 47.09      A16S
ATOM  11354  N9  G   A 550     160.335  88.528  18.108  1.00 32.67      A16S
ATOM  11355  C4  G   A 550     160.378  87.240  17.657  1.00 32.67      A16S
ATOM  11356  N3  G   A 550     161.492  86.561  17.334  1.00 32.67      A16S
ATOM  11357  C2  G   A 550     161.219  85.343  16.919  1.00 32.67      A16S
ATOM  11358  N2  G   A 550     162.212  84.543  16.535  1.00 32.67      A16S
ATOM  11359  N1  G   A 550     159.952  84.825  16.841  1.00 32.67      A16S
ATOM  11360  C6  G   A 550     158.793  85.514  17.165  1.00 32.67      A16S
ATOM  11361  O6  G   A 550     157.697  84.964  17.037  1.00 32.67      A16S
ATOM  11362  C5  G   A 550     159.074  86.824  17.606  1.00 32.67      A16S
ATOM  11363  N7  G   A 550     158.223  87.833  18.009  1.00 32.67      A16S
ATOM  11364  C8  G   A 550     159.015  88.826  18.297  1.00 32.67      A16S
ATOM  11365  C2* G   A 550     162.244  89.655  17.033  1.00 47.09      A16S
ATOM  11366  O2* G   A 550     163.633  89.654  17.284  1.00 47.09      A16S
ATOM  11367  C3* G   A 550     161.679  91.010  16.634  1.00 47.09      A16S
ATOM  11368  O3* G   A 550     162.550  91.724  15.774  1.00 47.09      A16S
ATOM  11369  P   U   A 551     162.375  91.570  14.188  1.00 37.01      A16S
ATOM  11370  O1P U   A 551     163.435  92.387  13.548  1.00 37.73      A16S
ATOM  11371  O2P U   A 551     160.948  91.822  13.860  1.00 37.73      A16S
ATOM  11372  O5* U   A 551     162.672  90.033  13.909  1.00 37.01      A16S
ATOM  11373  C5* U   A 551     163.971  89.487  14.141  1.00 37.01      A16S
ATOM  11374  C4* U   A 551     164.028  88.053  13.673  1.00 37.01      A16S
ATOM  11375  O4* U   A 551     163.239  87.198  14.535  1.00 37.01      A16S
ATOM  11376  C1* U   A 551     162.663  86.153  13.772  1.00 37.01      A16S
ATOM  11377  N1  U   A 551     161.202  86.244  13.882  1.00 37.73      A16S
ATOM  11378  C6  U   A 551     160.586  87.389  14.301  1.00 37.73      A16S
ATOM  11379  C2  U   A 551     160.471  85.136  13.550  1.00 37.73      A16S
ATOM  11380  O2  U   A 551     160.982  84.113  13.154  1.00 37.73      A16S
ATOM  11381  N3  U   A 551     159.118  85.273  13.689  1.00 37.73      A16S
ATOM  11382  C4  U   A 551     158.443  86.387  14.109  1.00 37.73      A16S
ATOM  11383  O4  U   A 551     157.224  86.352  14.215  1.00 37.73      A16S
ATOM  11384  C5  U   A 551     159.270  87.496  14.420  1.00 37.73      A16S
ATOM  11385  C2* U   A 551     163.154  86.306  12.335  1.00 37.01      A16S
ATOM  11386  O2* U   A 551     164.292  85.489  12.198  1.00 37.01      A16S
ATOM  11387  C3* U   A 551     163.497  87.788  12.281  1.00 37.01      A16S
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ATOM  11388  O3*  U   A 551     164.512  88.051  11.346  1.00 37.01      A16S
ATOM  11389  P    U   A 552     164.128  88.485   9.855  1.00 26.87      A16S
ATOM  11390  O1P  U   A 552     165.411  88.936   9.235  1.00 36.02      A16S
ATOM  11391  O2P  U   A 552     162.968  89.413   9.896  1.00 36.02      A16S
ATOM  11392  O5*  U   A 552     163.661  87.126   9.175  1.00 26.87      A16S
ATOM  11393  C5*  U   A 552     164.572  86.045   9.032  1.00 26.87      A16S
ATOM  11394  C4*  U   A 552     163.817  84.774   8.799  1.00 26.87      A16S
ATOM  11395  O4*  U   A 552     162.967  84.508   9.939  1.00 26.87      A16S
ATOM  11396  C1*  U   A 552     161.799  83.838   9.514  1.00 26.87      A16S
ATOM  11397  N1   U   A 552     160.623  84.602   9.944  1.00 36.02      A16S
ATOM  11398  C6   U   A 552     160.669  85.939  10.183  1.00 36.02      A16S
ATOM  11399  C2   U   A 552     159.462  83.906  10.082  1.00 36.02      A16S
ATOM  11400  O2   U   A 552     159.397  82.717   9.893  1.00 36.02      A16S
ATOM  11401  N3   U   A 552     158.375  84.641  10.453  1.00 36.02      A16S
ATOM  11402  C4   U   A 552     158.339  85.977  10.703  1.00 36.02      A16S
ATOM  11403  O4   U   A 552     157.281  86.497  11.060  1.00 36.02      A16S
ATOM  11404  C5   U   A 552     159.594  86.638  10.548  1.00 36.02      A16S
ATOM  11405  C2*  U   A 552     161.864  83.704   7.997  1.00 26.87      A16S
ATOM  11406  O2*  U   A 552     162.336  82.426   7.641  1.00 26.87      A16S
ATOM  11407  C3*  U   A 552     162.845  84.805   7.641  1.00 26.87      A16S
ATOM  11408  O3*  U   A 552     163.462  84.603   6.392  1.00 26.87      A16S
ATOM  11409  P    A   A 553     162.879  85.368   5.117  1.00 25.32      A16S
ATOM  11410  O1P  A   A 553     163.798  85.101   3.994  1.00 43.50      A16S
ATOM  11411  O2P  A   A 553     162.579  86.771   5.487  1.00 43.50      A16S
ATOM  11412  O5*  A   A 553     161.518  84.598   4.864  1.00 25.32      A16S
ATOM  11413  C5*  A   A 553     161.557  83.223   4.523  1.00 25.32      A16S
ATOM  11414  C4*  A   A 553     160.177  82.714   4.292  1.00 25.32      A16S
ATOM  11415  O4*  A   A 553     159.487  82.640   5.556  1.00 25.32      A16S
ATOM  11416  C1*  A   A 553     158.127  82.974   5.378  1.00 25.32      A16S
ATOM  11417  N9   A   A 553     157.838  84.137   6.216  1.00 43.50      A16S
ATOM  11418  C4   A   A 553     156.639  84.433   6.810  1.00 43.50      A16S
ATOM  11419  N3   A   A 553     155.504  83.727   6.744  1.00 43.50      A16S
ATOM  11420  C2   A   A 553     154.543  84.322   7.437  1.00 43.50      A16S
ATOM  11421  N1   A   A 553     154.582  85.454   8.135  1.00 43.50      A16S
ATOM  11422  C6   A   A 553     155.738  86.138   8.183  1.00 43.50      A16S
ATOM  11423  N6   A   A 553     155.777  87.272   8.881  1.00 43.50      A16S
ATOM  11424  C5   A   A 553     156.837  85.612   7.490  1.00 43.50      A16S
ATOM  11425  N7   A   A 553     158.141  86.055   7.334  1.00 43.50      A16S
ATOM  11426  C8   A   A 553     158.690  85.147   6.572  1.00 43.50      A16S
ATOM  11427  C2*  A   A 553     157.914  83.218   3.883  1.00 25.32      A16S
ATOM  11428  O2*  A   A 553     157.489  81.995   3.318  1.00 25.32      A16S
ATOM  11429  C3*  A   A 553     159.314  83.600   3.431  1.00 25.32      A16S
ATOM  11430  O3*  A   A 553     159.560  83.335   2.071  1.00 25.32      A16S
ATOM  11431  P    C   A 554     159.454  84.531   1.009  1.00 29.28      A16S
ATOM  11432  O1P  C   A 554     159.941  84.063  -0.320  1.00 40.77      A16S
ATOM  11433  O2P  C   A 554     160.063  85.738   1.634  1.00 40.77      A16S
ATOM  11434  O5*  C   A 554     157.886  84.742   0.876  1.00 29.28      A16S
ATOM  11435  C5*  C   A 554     157.070  83.717   0.292  1.00 29.28      A16S
ATOM  11436  C4*  C   A 554     155.611  83.991   0.554  1.00 29.28      A16S
ATOM  11437  O4*  C   A 554     155.355  83.940   1.974  1.00 29.28      A16S
ATOM  11438  C1*  C   A 554     154.324  84.855   2.299  1.00 29.28      A16S
ATOM  11439  N1   C   A 554     154.819  85.783   3.328  1.00 40.77      A16S
ATOM  11440  C6   C   A 554     156.115  86.192   3.328  1.00 40.77      A16S
ATOM  11441  C2   C   A 554     153.932  86.253   4.299  1.00 40.77      A16S
ATOM  11442  O2   C   A 554     152.770  85.820   4.317  1.00 40.77      A16S
ATOM  11443  N3   C   A 554     154.361  87.153   5.202  1.00 40.77      A16S
ATOM  11444  C4   C   A 554     155.624  87.565   5.176  1.00 40.77      A16S
ATOM  11445  N4   C   A 554     156.010  88.477   6.076  1.00 40.77      A16S
ATOM  11446  C5   C   A 554     156.555  87.070   4.226  1.00 40.77      A16S
ATOM  11447  C2*  C   A 554     153.893  85.561   1.009  1.00 29.28      A16S
ATOM  11448  O2*  C   A 554     152.773  84.935   0.420  1.00 29.28      A16S
ATOM  11449  C3*  C   A 554     155.100  85.354   0.124  1.00 29.28      A16S
ATOM  11450  O3*  C   A 554     154.681  85.357  -1.218  1.00 29.28      A16S
ATOM  11451  P    C   A 555     154.604  86.741  -2.004  1.00 34.13      A16S
ATOM  11452  O1P  C   A 555     154.506  86.392  -3.449  1.00 48.65      A16S
ATOM  11453  O2P  C   A 555     155.701  87.626  -1.524  1.00 48.65      A16S
ATOM  11454  O5*  C   A 555     153.233  87.373  -1.511  1.00 34.13      A16S
ATOM  11455  C5*  C   A 555     151.989  86.889  -2.035  1.00 34.13      A16S
ATOM  11456  C4*  C   A 555     150.846  87.724  -1.535  1.00 34.13      A16S
ATOM  11457  O4*  C   A 555     150.761  87.599  -0.096  1.00 34.13      A16S
ATOM  11458  C1*  C   A 555     150.302  88.817   0.457  1.00 34.13      A16S
ATOM  11459  N1   C   A 555     151.344  89.324   1.352  1.00 48.65      A16S
ATOM  11460  C6   C   A 555     152.662  89.221   1.015  1.00 48.65      A16S
ATOM  11461  C2   C   A 555     150.973  89.910   2.546  1.00 48.65      A16S
ATOM  11462  O2   C   A 555     149.770  90.014   2.808  1.00 48.65      A16S
ATOM  11463  N3   C   A 555     151.930  90.358   3.388  1.00 48.65      A16S
ATOM  11464  C4   C   A 555     153.215  90.243   3.055  1.00 48.65      A16S
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ATOM  11465  N4  C   A 555     154.131  90.679   3.912  1.00 48.65      A16S
ATOM  11466  C5  C   A 555     153.620  89.668   1.828  1.00 48.65      A16S
ATOM  11467  C2* C   A 555     150.032  89.773  -0.706  1.00 34.13      A16S
ATOM  11468  O2* C   A 555     148.694  89.667  -1.163  1.00 34.13      A16S
ATOM  11469  C3* C   A 555     150.952  89.216  -1.764  1.00 34.13      A16S
ATOM  11470  O3* C   A 555     150.486  89.612  -3.019  1.00 34.13      A16S
ATOM  11471  P   C   A 556     151.118  90.909  -3.695  1.00 27.10      A16S
ATOM  11472  O1P C   A 556     150.745  90.853  -5.131  1.00 29.23      A16S
ATOM  11473  O2P C   A 556     152.551  90.970  -3.303  1.00 29.23      A16S
ATOM  11474  O5* C   A 556     150.386  92.130  -2.991  1.00 27.10      A16S
ATOM  11475  C5* C   A 556     149.057  92.478  -3.359  1.00 27.10      A16S
ATOM  11476  C4* C   A 556     148.569  93.616  -2.517  1.00 27.10      A16S
ATOM  11477  O4* C   A 556     148.546  93.198  -1.135  1.00 27.10      A16S
ATOM  11478  C1* C   A 556     148.855  94.291  -0.295  1.00 27.10      A16S
ATOM  11479  N1  C   A 556     150.087  93.993   0.445  1.00 29.23      A16S
ATOM  11480  C6  C   A 556     150.987  93.074  -0.012  1.00 29.23      A16S
ATOM  11481  C2  C   A 556     150.331  94.684   1.625  1.00 29.23      A16S
ATOM  11482  O2  C   A 556     149.475  95.477   2.039  1.00 29.23      A16S
ATOM  11483  N3  C   A 556     151.488  94.469   2.293  1.00 29.23      A16S
ATOM  11484  C4  C   A 556     152.369  93.588   1.828  1.00 29.23      A16S
ATOM  11485  N4  C   A 556     153.500  93.427   2.503  1.00 29.23      A16S
ATOM  11486  C5  C   A 556     152.127  92.839   0.645  1.00 29.23      A16S
ATOM  11487  C2* C   A 556     149.022  95.502  -1.191  1.00 27.10      A16S
ATOM  11488  O2* C   A 556     147.746  96.089  -1.301  1.00 27.10      A16S
ATOM  11489  C3* C   A 556     149.437  94.849  -2.495  1.00 27.10      A16S
ATOM  11490  O3* C   A 556     149.195  95.680  -3.599  1.00 27.10      A16S
ATOM  11491  P   G   A 557     150.374  96.628  -4.113  1.00 28.72      A16S
ATOM  11492  O1P G   A 557     149.934  97.331  -5.341  1.00 58.54      A16S
ATOM  11493  O2P G   A 557     151.598  95.788  -4.144  1.00 58.54      A16S
ATOM  11494  O5* G   A 557     150.535  97.688  -2.942  1.00 28.72      A16S
ATOM  11495  C5* G   A 557     149.386  98.313  -2.372  1.00 28.72      A16S
ATOM  11496  C4* G   A 557     149.760  99.038  -1.113  1.00 28.72      A16S
ATOM  11497  O4* G   A 557     150.231  98.110  -0.108  1.00 28.72      A16S
ATOM  11498  C1* G   A 557     151.257  98.716   0.654  1.00 28.72      A16S
ATOM  11499  N9  G   A 557     152.421  97.834   0.633  1.00 58.54      A16S
ATOM  11500  C4  G   A 557     153.539  97.910   1.428  1.00 58.54      A16S
ATOM  11501  N3  G   A 557     153.781  98.831   2.377  1.00 58.54      A16S
ATOM  11502  C2  G   A 557     154.946  98.634   2.969  1.00 58.54      A16S
ATOM  11503  N2  G   A 557     155.352  99.446   3.939  1.00 58.54      A16S
ATOM  11504  N1  G   A 557     155.802  97.624   2.657  1.00 58.54      A16S
ATOM  11505  C6  G   A 557     155.577  96.664   1.682  1.00 58.54      A16S
ATOM  11506  O6  G   A 557     156.437  95.787   1.462  1.00 58.54      A16S
ATOM  11507  C5  G   A 557     154.329  96.856   1.044  1.00 58.54      A16S
ATOM  11508  N7  G   A 557     153.726  96.132   0.032  1.00 58.54      A16S
ATOM  11509  C8  G   A 557     152.601  96.749  -0.180  1.00 58.54      A16S
ATOM  11510  C2* G   A 557     151.478 100.129   0.105  1.00 28.72      A16S
ATOM  11511  O2* G   A 557     150.761 101.035   0.917  1.00 28.72      A16S
ATOM  11512  C3* G   A 557     150.889 100.022  -1.298  1.00 28.72      A16S
ATOM  11513  O3* G   A 557     150.340 101.230  -1.801  1.00 28.72      A16S
ATOM  11514  P   G   A 558     150.879 101.823  -3.190  1.00 17.84      A16S
ATOM  11515  O1P G   A 558     149.951 102.917  -3.609  1.00 50.62      A16S
ATOM  11516  O2P G   A 558     151.127 100.683  -4.118  1.00 50.62      A16S
ATOM  11517  O5* G   A 558     152.233 102.510  -2.735  1.00 17.84      A16S
ATOM  11518  C5* G   A 558     152.149 103.633  -1.871  1.00 17.84      A16S
ATOM  11519  C4* G   A 558     153.367 103.753  -1.020  1.00 17.84      A16S
ATOM  11520  O4* G   A 558     153.575 102.551  -0.262  1.00 17.84      A16S
ATOM  11521  C1* G   A 558     154.957 102.362  -0.058  1.00 17.84      A16S
ATOM  11522  N9  G   A 558     155.303 101.061  -0.610  1.00 50.62      A16S
ATOM  11523  C4  G   A 558     156.238 100.190  -0.123  1.00 50.62      A16S
ATOM  11524  N3  G   A 558     157.015 100.390   0.956  1.00 50.62      A16S
ATOM  11525  C2  G   A 558     157.795  99.358   1.202  1.00 50.62      A16S
ATOM  11526  N2  G   A 558     158.600  99.376   2.264  1.00 50.62      A16S
ATOM  11527  N1  G   A 558     157.833  98.225   0.433  1.00 50.62      A16S
ATOM  11528  C6  G   A 558     157.043  97.996  -0.691  1.00 50.62      A16S
ATOM  11529  O6  G   A 558     157.142  96.918  -1.317  1.00 50.62      A16S
ATOM  11530  C5  G   A 558     156.185  99.096  -0.952  1.00 50.62      A16S
ATOM  11531  N7  G   A 558     155.236  99.279  -1.947  1.00 50.62      A16S
ATOM  11532  C8  G   A 558     154.743 100.460  -1.707  1.00 50.62      A16S
ATOM  11533  C2* G   A 558     155.684 103.533  -0.713  1.00 17.84      A16S
ATOM  11534  O2* G   A 558     155.858 104.518   0.273  1.00 17.84      A16S
ATOM  11535  C3* G   A 558     154.667 103.985  -1.748  1.00 17.84      A16S
ATOM  11536  O3* G   A 558     154.748 105.366  -2.010  1.00 17.84      A16S
ATOM  11537  P   A   A 559     155.478 105.890  -3.326  1.00 34.75      A16S
ATOM  11538  O1P A   A 559     156.823 106.307  -2.877  1.00 34.00      A16S
ATOM  11539  O2P A   A 559     154.609 106.831  -4.077  1.00 34.00      A16S
ATOM  11540  O5* A   A 559     155.668 104.615  -4.234  1.00 34.75      A16S
ATOM  11541  C5* A   A 559     155.892 104.788  -5.637  1.00 34.75      A16S
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ATOM  11542  C4* A   A 559     155.142 103.743  -6.397  1.00 34.75      A16S
ATOM  11543  O4* A   A 559     156.020 102.626  -6.677  1.00 34.75      A16S
ATOM  11544  C1* A   A 559     155.480 101.443  -6.151  1.00 34.75      A16S
ATOM  11545  N9  A   A 559     156.589 100.623  -5.650  1.00 34.00      A16S
ATOM  11546  C4  A   A 559     157.325 100.767  -4.501  1.00 34.00      A16S
ATOM  11547  N3  A   A 559     157.199 101.711  -3.572  1.00 34.00      A16S
ATOM  11548  C2  A   A 559     158.057 101.499  -2.572  1.00 34.00      A16S
ATOM  11549  N1  A   A 559     158.958 100.531  -2.414  1.00 34.00      A16S
ATOM  11550  C6  A   A 559     159.071  99.608  -3.377  1.00 34.00      A16S
ATOM  11551  N6  A   A 559     159.989  98.648  -3.229  1.00 34.00      A16S
ATOM  11552  C5  A   A 559     158.214  99.713  -4.484  1.00 34.00      A16S
ATOM  11553  N7  A   A 559     158.063  98.933  -5.610  1.00 34.00      A16S
ATOM  11554  C8  A   A 559     157.094  99.516  -6.269  1.00 34.00      A16S
ATOM  11555  C2* A   A 559     154.439 101.844  -5.112  1.00 34.75      A16S
ATOM  11556  O2* A   A 559     153.474 100.832  -4.980  1.00 34.75      A16S
ATOM  11557  C3* A   A 559     153.958 103.208  -5.623  1.00 34.75      A16S
ATOM  11558  O3* A   A 559     152.680 103.517  -6.235  1.00 34.75      A16S
ATOM  11559  P   U   A 560     152.183 102.755  -7.556  1.00 34.28      A16S
ATOM  11560  O1P U   A 560     150.772 102.353  -7.316  1.00 67.84      A16S
ATOM  11561  O2P U   A 560     153.174 101.729  -7.947  1.00 67.84      A16S
ATOM  11562  O5* U   A 560     152.174 103.886  -8.662  1.00 34.28      A16S
ATOM  11563  C5* U   A 560     152.881 103.696  -9.880  1.00 34.28      A16S
ATOM  11564  C4* U   A 560     153.335 105.015 -10.423  1.00 34.28      A16S
ATOM  11565  O4* U   A 560     152.183 105.751 -10.908  1.00 34.28      A16S
ATOM  11566  C1* U   A 560     152.351 107.130 -10.655  1.00 34.28      A16S
ATOM  11567  N1  U   A 560     151.176 107.642  -9.934  1.00 67.84      A16S
ATOM  11568  C6  U   A 560     150.668 107.009  -8.830  1.00 67.84      A16S
ATOM  11569  C2  U   A 560     150.598 108.798 -10.411  1.00 67.84      A16S
ATOM  11570  O2  U   A 560     151.023 109.398 -11.379  1.00 67.84      A16S
ATOM  11571  N3  U   A 560     149.506 109.235  -9.711  1.00 67.84      A16S
ATOM  11572  C4  U   A 560     148.948 108.653  -8.600  1.00 67.84      A16S
ATOM  11573  O4  U   A 560     147.959 109.173  -8.075  1.00 67.84      A16S
ATOM  11574  C5  U   A 560     149.605 107.463  -8.163  1.00 67.84      A16S
ATOM  11575  C2* U   A 560     153.683 107.327  -9.931  1.00 34.28      A16S
ATOM  11576  O2* U   A 560     154.621 107.826 -10.857  1.00 34.28      A16S
ATOM  11577  C3* U   A 560     153.957 105.927  -9.388  1.00 34.28      A16S
ATOM  11578  O3* U   A 560     155.289 105.544  -8.976  1.00 34.28      A16S
ATOM  11579  P   U   A 561     156.549 105.618  -9.978  1.00 23.08      A16S
ATOM  11580  O1P U   A 561     157.701 105.984  -9.123  1.00 55.09      A16S
ATOM  11581  O2P U   A 561     156.292 106.382 -11.213  1.00 55.09      A16S
ATOM  11582  O5* U   A 561     156.725 104.107 -10.424  1.00 23.08      A16S
ATOM  11583  C5* U   A 561     156.378 103.710 -11.758  1.00 23.08      A16S
ATOM  11584  C4* U   A 561     156.627 102.242 -11.954  1.00 23.08      A16S
ATOM  11585  O4* U   A 561     158.009 101.950 -11.609  1.00 23.08      A16S
ATOM  11586  C1* U   A 561     158.049 100.919 -10.647  1.00 23.08      A16S
ATOM  11587  N1  U   A 561     159.158 101.169  -9.716  1.00 55.09      A16S
ATOM  11588  C6  U   A 561     159.270 102.363  -9.076  1.00 55.09      A16S
ATOM  11589  C2  U   A 561     160.074 100.151  -9.489  1.00 55.09      A16S
ATOM  11590  O2  U   A 561     160.046  99.077 -10.066  1.00 55.09      A16S
ATOM  11591  N3  U   A 561     161.032 100.439  -8.562  1.00 55.09      A16S
ATOM  11592  C4  U   A 561     161.172 101.607  -7.859  1.00 55.09      A16S
ATOM  11593  O4  U   A 561     161.989 101.668  -6.943  1.00 55.09      A16S
ATOM  11594  C5  U   A 561     160.219 102.613  -8.182  1.00 55.09      A16S
ATOM  11595  C2* U   A 561     156.682 100.911  -9.971  1.00 23.08      A16S
ATOM  11596  O2* U   A 561     156.430  99.616  -9.467  1.00 23.08      A16S
ATOM  11597  C3* U   A 561     155.759 101.316 -11.121  1.00 23.08      A16S
ATOM  11598  O3* U   A 561     155.460 100.199 -11.932  1.00 23.08      A16S
ATOM  11599  P   C   A 562     154.267  99.203 -11.526  1.00 27.11      A16S
ATOM  11600  O1P C   A 562     153.880  99.457 -10.112  1.00 42.11      A16S
ATOM  11601  O2P C   A 562     154.654  97.832 -11.945  1.00 42.11      A16S
ATOM  11602  O5* C   A 562     153.058  99.677 -12.437  1.00 27.11      A16S
ATOM  11603  C5* C   A 562     153.290 100.164 -13.754  1.00 27.11      A16S
ATOM  11604  C4* C   A 562     152.260  99.618 -14.693  1.00 27.11      A16S
ATOM  11605  O4* C   A 562     152.979  99.199 -15.868  1.00 27.11      A16S
ATOM  11606  C1* C   A 562     152.728  97.842 -16.120  1.00 27.11      A16S
ATOM  11607  N1  C   A 562     153.956  97.230 -16.636  1.00 42.11      A16S
ATOM  11608  C6  C   A 562     155.120  97.258 -15.916  1.00 42.11      A16S
ATOM  11609  C2  C   A 562     153.912  96.611 -17.878  1.00 42.11      A16S
ATOM  11610  O2  C   A 562     152.855  96.632 -18.521  1.00 42.11      A16S
ATOM  11611  N3  C   A 562     155.023  96.012 -18.355  1.00 42.11      A16S
ATOM  11612  C4  C   A 562     156.154  96.036 -17.644  1.00 42.11      A16S
ATOM  11613  N4  C   A 562     157.228  95.425 -18.157  1.00 42.11      A16S
ATOM  11614  C5  C   A 562     156.233  96.683 -16.380  1.00 42.11      A16S
ATOM  11615  C2* C   A 562     152.239  97.236 -14.811  1.00 27.11      A16S
ATOM  11616  O2* C   A 562     151.411  96.124 -15.091  1.00 27.11      A16S
ATOM  11617  C3* C   A 562     151.479  98.401 -14.194  1.00 27.11      A16S
ATOM  11618  O3* C   A 562     150.146  98.379 -14.725  1.00 27.11      A16S
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ATOM	11619	P	A	A	563	148.970	99.224	-14.016	1.00	25.36	A16S
ATOM	11620	O1P	A	A	563	149.052	99.095	-12.528	1.00	26.75	A16S
ATOM	11621	O2P	A	A	563	147.696	98.876	-14.713	1.00	26.75	A16S
ATOM	11622	O5*	A	A	563	149.340	100.730	-14.382	1.00	25.36	A16S
ATOM	11623	C5*	A	A	563	148.480	101.797	-13.997	1.00	25.36	A16S
ATOM	11624	C4*	A	A	563	148.918	103.081	-14.643	1.00	25.36	A16S
ATOM	11625	O4*	A	A	563	150.213	103.465	-14.155	1.00	25.36	A16S
ATOM	11626	C1*	A	A	563	150.768	104.380	-15.068	1.00	25.36	A16S
ATOM	11627	N9	A	A	563	152.219	104.225	-15.075	1.00	26.75	A16S
ATOM	11628	C4	A	A	563	153.000	103.385	-15.832	1.00	26.75	A16S
ATOM	11629	N3	A	A	563	152.599	102.515	-16.767	1.00	26.75	A16S
ATOM	11630	C2	A	A	563	153.636	101.872	-17.280	1.00	26.75	A16S
ATOM	11631	N1	A	A	563	154.921	101.982	-16.987	1.00	26.75	A16S
ATOM	11632	C6	A	A	563	155.289	102.858	-16.039	1.00	26.75	A16S
ATOM	11633	N6	A	A	563	156.579	102.959	-15.724	1.00	26.75	A16S
ATOM	11634	C5	A	A	563	154.292	103.613	-15.428	1.00	26.75	A16S
ATOM	11635	N7	A	A	563	154.337	104.593	-14.448	1.00	26.75	A16S
ATOM	11636	C8	A	A	563	153.085	104.921	-14.276	1.00	26.75	A16S
ATOM	11637	C2*	A	A	563	150.025	104.249	-16.406	1.00	25.36	A16S
ATOM	11638	O2*	A	A	563	149.326	105.442	-16.692	1.00	25.36	A16S
ATOM	11639	C3*	A	A	563	149.073	103.083	-16.154	1.00	25.36	A16S
ATOM	11640	O3*	A	A	563	147.822	103.421	-16.713	1.00	25.36	A16S
ATOM	11641	P	C	A	564	147.281	102.650	-18.000	1.00	18.98	A16S
ATOM	11642	O1P	C	A	564	147.667	101.216	-17.887	1.00	52.54	A16S
ATOM	11643	O2P	C	A	564	147.661	103.439	-19.201	1.00	52.54	A16S
ATOM	11644	O5*	C	A	564	145.704	102.708	-17.819	1.00	18.98	A16S
ATOM	11645	C5*	C	A	564	144.823	103.170	-18.860	1.00	18.98	A16S
ATOM	11646	C4*	C	A	564	143.521	103.654	-18.254	1.00	18.98	A16S
ATOM	11647	O4*	C	A	564	142.843	102.561	-17.583	1.00	18.98	A16S
ATOM	11648	C1*	C	A	564	142.237	103.030	-16.395	1.00	18.98	A16S
ATOM	11649	N1	C	A	564	142.841	102.323	-15.254	1.00	52.54	A16S
ATOM	11650	C6	C	A	564	143.918	101.502	-15.431	1.00	52.54	A16S
ATOM	11651	C2	C	A	564	142.307	102.515	-13.977	1.00	52.54	A16S
ATOM	11652	O2	C	A	564	141.314	103.249	-13.840	1.00	52.54	A16S
ATOM	11653	N3	C	A	564	142.882	101.895	-12.922	1.00	52.54	A16S
ATOM	11654	C4	C	A	564	143.939	101.105	-13.108	1.00	52.54	A16S
ATOM	11655	N4	C	A	564	144.480	100.519	-12.036	1.00	52.54	A16S
ATOM	11656	C5	C	A	564	144.492	100.881	-14.398	1.00	52.54	A16S
ATOM	11657	C2*	C	A	564	142.464	104.542	-16.326	1.00	18.98	A16S
ATOM	11658	O2*	C	A	564	141.381	105.242	-16.892	1.00	18.98	A16S
ATOM	11659	C3*	C	A	564	143.696	104.715	-17.185	1.00	18.98	A16S
ATOM	11660	O3*	C	A	564	143.692	105.999	-17.761	1.00	18.98	A16S
ATOM	11661	P	U	A	565	144.538	107.171	-17.081	1.00	29.43	A16S
ATOM	11662	O1P	U	A	565	144.175	108.401	-17.820	1.00	40.66	A16S
ATOM	11663	O2P	U	A	565	145.958	106.761	-16.989	1.00	40.66	A16S
ATOM	11664	O5*	U	A	565	143.924	107.274	-15.620	1.00	29.43	A16S
ATOM	11665	C5*	U	A	565	142.604	107.800	-15.429	1.00	29.43	A16S
ATOM	11666	C4*	U	A	565	142.289	107.904	-13.964	1.00	29.43	A16S
ATOM	11667	O4*	U	A	565	142.096	106.578	-13.426	1.00	29.43	A16S
ATOM	11668	C1*	U	A	565	142.510	106.551	-12.082	1.00	29.43	A16S
ATOM	11669	N1	U	A	565	143.485	105.473	-11.919	1.00	40.66	A16S
ATOM	11670	C6	U	A	565	144.369	105.163	-12.913	1.00	40.66	A16S
ATOM	11671	C2	U	A	565	143.505	104.804	-10.717	1.00	40.66	A16S
ATOM	11672	O2	U	A	565	142.700	105.017	-9.830	1.00	40.66	A16S
ATOM	11673	N3	U	A	565	144.500	103.872	-10.591	1.00	40.66	A16S
ATOM	11674	C4	U	A	565	145.443	103.540	-11.539	1.00	40.66	A16S
ATOM	11675	O4	U	A	565	146.320	102.723	-11.265	1.00	40.66	A16S
ATOM	11676	C5	U	A	565	145.322	104.246	-12.767	1.00	40.66	A16S
ATOM	11677	C2*	U	A	565	143.094	107.923	-11.730	1.00	29.43	A16S
ATOM	11678	O2*	U	A	565	142.187	108.684	-10.961	1.00	29.43	A16S
ATOM	11679	C3*	U	A	565	143.376	108.516	-13.106	1.00	29.43	A16S
ATOM	11680	O3*	U	A	565	143.335	109.943	-13.110	1.00	29.43	A16S
ATOM	11681	P	G	A	566	144.660	110.782	-12.732	1.00	43.63	A16S
ATOM	11682	O1P	G	A	566	144.459	112.151	-13.270	1.00	35.56	A16S
ATOM	11683	O2P	G	A	566	144.996	110.602	-11.285	1.00	35.56	A16S
ATOM	11684	O5*	G	A	566	145.798	110.050	-13.574	1.00	43.63	A16S
ATOM	11685	C5*	G	A	566	147.123	110.607	-13.688	1.00	43.63	A16S
ATOM	11686	C4*	G	A	566	148.105	109.533	-14.092	1.00	43.63	A16S
ATOM	11687	O4*	G	A	566	148.450	108.724	-12.949	1.00	43.63	A16S
ATOM	11688	C1*	G	A	566	148.155	107.377	-13.214	1.00	43.63	A16S
ATOM	11689	N9	G	A	566	147.680	106.804	-11.969	1.00	35.56	A16S
ATOM	11690	C4	G	A	566	148.186	105.708	-11.320	1.00	35.56	A16S
ATOM	11691	N3	G	A	566	149.177	104.907	-11.764	1.00	35.56	A16S
ATOM	11692	C2	G	A	566	149.464	103.956	-10.896	1.00	35.56	A16S
ATOM	11693	N2	G	A	566	150.399	103.052	-11.184	1.00	35.56	A16S
ATOM	11694	N1	G	A	566	148.844	103.820	-9.680	1.00	35.56	A16S
ATOM	11695	C6	G	A	566	147.835	104.648	-9.201	1.00	35.56	A16S

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ATOM  11696  O6  G   A 566     147.372 104.469  -8.071  1.00 35.56      A16S
ATOM  11697  C5  G   A 566     147.497 105.641 -10.135  1.00 35.56      A16S
ATOM  11698  N7  G   A 566     146.543 106.638 -10.067  1.00 35.56      A16S
ATOM  11699  C8  G   A 566     146.681 107.296 -11.180  1.00 35.56      A16S
ATOM  11700  C2* G   A 566     147.142 107.377 -14.349  1.00 43.63      A16S
ATOM  11701  O2* G   A 566     147.257 106.180 -15.073  1.00 43.63      A16S
ATOM  11702  C3* G   A 566     147.600 108.580 -15.158  1.00 43.63      A16S
ATOM  11703  O3* G   A 566     148.712 108.202 -15.938  1.00 43.63      A16S
ATOM  11704  P   G   A 567     149.234 109.166 -17.102  1.00 58.02      A16S
ATOM  11705  O1P G   A 567     148.664 108.662 -18.390  1.00 64.11      A16S
ATOM  11706  O2P G   A 567     149.018 110.576 -16.697  1.00 64.11      A16S
ATOM  11707  O5* G   A 567     150.799 108.926 -17.055  1.00 24.35      A16S
ATOM  11708  C5* G   A 567     151.508 109.134 -15.828  1.00 24.35      A16S
ATOM  11709  C4* G   A 567     152.958 108.741 -15.971  1.00 24.35      A16S
ATOM  11710  O4* G   A 567     153.119 107.304 -15.935  1.00 24.35      A16S
ATOM  11711  C1* G   A 567     154.218 106.930 -16.751  1.00 24.35      A16S
ATOM  11712  N9  G   A 567     153.766 105.974 -17.758  1.00 28.12      A16S
ATOM  11713  C4  G   A 567     154.565 105.151 -18.516  1.00 28.12      A16S
ATOM  11714  N3  G   A 567     155.908 105.077 -18.455  1.00 28.12      A16S
ATOM  11715  C2  G   A 567     156.392 104.162 -19.285  1.00 28.12      A16S
ATOM  11716  N2  G   A 567     157.716 103.920 -19.304  1.00 28.12      A16S
ATOM  11717  N1  G   A 567     155.617 103.414 -20.135  1.00 28.12      A16S
ATOM  11718  C6  G   A 567     154.235 103.490 -20.223  1.00 28.12      A16S
ATOM  11719  O6  G   A 567     153.636 102.784 -21.026  1.00 28.12      A16S
ATOM  11720  C5  G   A 567     153.703 104.436 -19.316  1.00 28.12      A16S
ATOM  11721  N7  G   A 567     152.387 104.800 -19.067  1.00 28.12      A16S
ATOM  11722  C8  G   A 567     152.473 105.716 -18.141  1.00 28.12      A16S
ATOM  11723  C2* G   A 567     154.808 108.206 -17.348  1.00 24.35      A16S
ATOM  11724  O2* G   A 567     155.889 108.607 -16.535  1.00 24.35      A16S
ATOM  11725  C3* G   A 567     153.636 109.175 -17.252  1.00 24.35      A16S
ATOM  11726  O3* G   A 567     154.055 110.526 -17.144  1.00 24.35      A16S
ATOM  11727  P   G   A 568     154.593 111.305 -18.443  1.00 48.25      A16S
ATOM  11728  O1P G   A 568     155.743 112.099 -17.924  1.00 28.93      A16S
ATOM  11729  O2P G   A 568     153.489 111.990 -19.184  1.00 28.93      A16S
ATOM  11730  O5* G   A 568     155.130 110.137 -19.380  1.00 48.25      A16S
ATOM  11731  C5* G   A 568     156.087 110.388 -20.412  1.00 48.25      A16S
ATOM  11732  C4* G   A 568     157.138 109.319 -20.390  1.00 48.25      A16S
ATOM  11733  O4* G   A 568     156.496 108.046 -20.153  1.00 48.25      A16S
ATOM  11734  C1* G   A 568     157.139 107.044 -20.907  1.00 48.25      A16S
ATOM  11735  N9  G   A 568     156.138 106.394 -21.758  1.00 28.93      A16S
ATOM  11736  C4  G   A 568     156.364 105.453 -22.737  1.00 28.93      A16S
ATOM  11737  N3  G   A 568     157.566 104.971 -23.113  1.00 28.93      A16S
ATOM  11738  C2  G   A 568     157.459 104.055 -24.064  1.00 28.93      A16S
ATOM  11739  N2  G   A 568     158.561 103.462 -24.542  1.00 28.93      A16S
ATOM  11740  N1  G   A 568     156.269 103.653 -24.611  1.00 28.93      A16S
ATOM  11741  C6  G   A 568     155.023 104.136 -24.245  1.00 28.93      A16S
ATOM  11742  O6  G   A 568     154.018 103.703 -24.801  1.00 28.93      A16S
ATOM  11743  C5  G   A 568     155.120 105.115 -23.217  1.00 28.93      A16S
ATOM  11744  N7  G   A 568     154.134 105.834 -22.567  1.00 28.93      A16S
ATOM  11745  C8  G   A 568     154.782 106.580 -21.717  1.00 28.93      A16S
ATOM  11746  C2* G   A 568     158.341 107.691 -21.605  1.00 48.25      A16S
ATOM  11747  O2* G   A 568     159.462 107.561 -20.753  1.00 48.25      A16S
ATOM  11748  C3* G   A 568     157.916 109.149 -21.678  1.00 48.25      A16S
ATOM  11749  O3* G   A 568     159.032 110.028 -21.702  1.00 48.25      A16S
ATOM  11750  P   C   A 569     159.328 110.913 -23.016  1.00 27.33      A16S
ATOM  11751  O1P C   A 569     160.248 112.004 -22.614  1.00 19.45      A16S
ATOM  11752  O2P C   A 569     158.042 111.251 -23.702  1.00 19.45      A16S
ATOM  11753  O5* C   A 569     160.090 109.930 -24.010  1.00 27.33      A16S
ATOM  11754  C5* C   A 569     161.333 109.323 -23.668  1.00 27.33      A16S
ATOM  11755  C4* C   A 569     161.738 108.370 -24.756  1.00 27.33      A16S
ATOM  11756  O4* C   A 569     160.939 107.168 -24.698  1.00 27.33      A16S
ATOM  11757  C1* C   A 569     160.731 106.674 -26.003  1.00 27.33      A16S
ATOM  11758  N1  C   A 569     159.287 106.490 -26.233  1.00 19.45      A16S
ATOM  11759  C6  C   A 569     158.371 107.262 -25.588  1.00 19.45      A16S
ATOM  11760  C2  C   A 569     158.858 105.490 -27.126  1.00 19.45      A16S
ATOM  11761  O2  C   A 569     159.705 104.799 -27.724  1.00 19.45      A16S
ATOM  11762  N3  C   A 569     157.533 105.297 -27.315  1.00 19.45      A16S
ATOM  11763  C4  C   A 569     156.655 106.040 -26.659  1.00 19.45      A16S
ATOM  11764  N4  C   A 569     155.372 105.790 -26.849  1.00 19.45      A16S
ATOM  11765  C5  C   A 569     157.058 107.069 -25.769  1.00 19.45      A16S
ATOM  11766  C2* C   A 569     161.400 107.632 -26.983  1.00 27.33      A16S
ATOM  11767  O2* C   A 569     162.649 107.082 -27.332  1.00 27.33      A16S
ATOM  11768  C3* C   A 569     161.521 108.902 -26.154  1.00 27.33      A16S
ATOM  11769  O3* C   A 569     162.618 109.706 -26.558  1.00 27.33      A16S
ATOM  11770  P   G   A 570     162.382 110.924 -27.575  1.00 25.72      A16S
ATOM  11771  O1P G   A 570     161.882 112.053 -26.750  1.00 47.53      A16S
ATOM  11772  O2P G   A 570     161.558 110.413 -28.712  1.00 47.53      A16S
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ATOM  11773  O5*  G   A 570     163.853 111.270 -28.102  1.00 25.72      A16S
ATOM  11774  C5*  G   A 570     164.343 110.726 -29.360  1.00 25.72      A16S
ATOM  11775  C4*  G   A 570     165.560 111.482 -29.832  1.00 25.72      A16S
ATOM  11776  O4*  G   A 570     165.234 112.889 -29.936  1.00 25.72      A16S
ATOM  11777  C1*  G   A 570     166.317 113.676 -29.488  1.00 25.72      A16S
ATOM  11778  N9   G   A 570     165.843 114.496 -28.374  1.00 47.53      A16S
ATOM  11779  C4   G   A 570     166.597 115.250 -27.502  1.00 47.53      A16S
ATOM  11780  N3   G   A 570     167.935 115.385 -27.519  1.00 47.53      A16S
ATOM  11781  C2   G   A 570     168.370 116.148 -26.527  1.00 47.53      A16S
ATOM  11782  N2   G   A 570     169.679 116.357 -26.369  1.00 47.53      A16S
ATOM  11783  N1   G   A 570     167.559 116.752 -25.612  1.00 47.53      A16S
ATOM  11784  C6   G   A 570     166.180 116.638 -25.578  1.00 47.53      A16S
ATOM  11785  O6   G   A 570     165.538 117.230 -24.702  1.00 47.53      A16S
ATOM  11786  C5   G   A 570     165.697 115.805 -26.625  1.00 47.53      A16S
ATOM  11787  N7   G   A 570     164.404 115.427 -26.944  1.00 47.53      A16S
ATOM  11788  C8   G   A 570     164.540 114.658 -27.986  1.00 47.53      A16S
ATOM  11789  C2*  G   A 570     167.471 112.719 -29.158  1.00 25.72      A16S
ATOM  11790  O2*  G   A 570     168.346 112.627 -30.268  1.00 25.72      A16S
ATOM  11791  C3*  G   A 570     166.741 111.409 -28.888  1.00 25.72      A16S
ATOM  11792  O3*  G   A 570     167.546 110.271 -29.199  1.00 25.72      A16S
ATOM  11793  P    U   A 571     167.706 109.084 -28.128  1.00 18.37      A16S
ATOM  11794  O1P  U   A 571     168.035 107.811 -28.806  1.00 48.87      A16S
ATOM  11795  O2P  U   A 571     166.539 109.141 -27.209  1.00 48.87      A16S
ATOM  11796  O5*  U   A 571     168.995 109.496 -27.306  1.00 18.37      A16S
ATOM  11797  C5*  U   A 571     170.251 109.672 -27.954  1.00 18.37      A16S
ATOM  11798  C4*  U   A 571     171.161 110.529 -27.103  1.00 18.37      A16S
ATOM  11799  O4*  U   A 571     170.699 111.906 -27.113  1.00 18.37      A16S
ATOM  11800  C1*  U   A 571     170.962 112.501 -25.854  1.00 18.37      A16S
ATOM  11801  N1   U   A 571     169.687 112.933 -25.252  1.00 48.87      A16S
ATOM  11802  C6   U   A 571     168.487 112.454 -25.706  1.00 48.87      A16S
ATOM  11803  C2   U   A 571     169.738 113.849 -24.222  1.00 48.87      A16S
ATOM  11804  O2   U   A 571     170.782 114.277 -23.764  1.00 48.87      A16S
ATOM  11805  N3   U   A 571     168.519 114.243 -23.744  1.00 48.87      A16S
ATOM  11806  C4   U   A 571     167.285 113.822 -24.177  1.00 48.87      A16S
ATOM  11807  O4   U   A 571     166.271 114.347 -23.720  1.00 48.87      A16S
ATOM  11808  C5   U   A 571     167.320 112.855 -25.217  1.00 48.87      A16S
ATOM  11809  C2*  U   A 571     171.703 111.471 -25.003  1.00 18.37      A16S
ATOM  11810  O2*  U   A 571     173.085 111.686 -25.159  1.00 18.37      A16S
ATOM  11811  C3*  U   A 571     171.252 110.163 -25.632  1.00 18.37      A16S
ATOM  11812  O3*  U   A 571     172.173 109.127 -25.391  1.00 18.37      A16S
ATOM  11813  P    A   A 572     171.638 107.681 -24.949  1.00 37.59      A16S
ATOM  11814  O1P  A   A 572     172.783 106.711 -25.152  1.00 43.23      A16S
ATOM  11815  O2P  A   A 572     170.311 107.415 -25.577  1.00 43.23      A16S
ATOM  11816  O5*  A   A 572     171.415 107.793 -23.384  1.00 37.59      A16S
ATOM  11817  C5*  A   A 572     170.270 108.440 -22.828  1.00 37.59      A16S
ATOM  11818  C4*  A   A 572     170.043 107.927 -21.433  1.00 37.59      A16S
ATOM  11819  O4*  A   A 572     169.298 108.861 -20.643  1.00 37.59      A16S
ATOM  11820  C1*  A   A 572     168.694 108.174 -19.576  1.00 37.59      A16S
ATOM  11821  N9   A   A 572     167.406 108.809 -19.324  1.00 43.23      A16S
ATOM  11822  C4   A   A 572     167.267 109.985 -18.624  1.00 43.23      A16S
ATOM  11823  N3   A   A 572     168.236 110.692 -18.017  1.00 43.23      A16S
ATOM  11824  C2   A   A 572     167.741 111.796 -17.482  1.00 43.23      A16S
ATOM  11825  N1   A   A 572     166.488 112.249 -17.492  1.00 43.23      A16S
ATOM  11826  C6   A   A 572     165.545 111.521 -18.118  1.00 43.23      A16S
ATOM  11827  N6   A   A 572     164.304 111.995 -18.162  1.00 43.23      A16S
ATOM  11828  C5   A   A 572     165.935 110.313 -18.702  1.00 43.23      A16S
ATOM  11829  N7   A   A 572     165.233 109.337 -19.389  1.00 43.23      A16S
ATOM  11830  C8   A   A 572     166.152 108.466 -19.730  1.00 43.23      A16S
ATOM  11831  C2*  A   A 572     168.768 106.670 -19.864  1.00 37.59      A16S
ATOM  11832  O2*  A   A 572     169.675 106.104 -18.940  1.00 37.59      A16S
ATOM  11833  C3*  A   A 572     169.276 106.634 -21.311  1.00 37.59      A16S
ATOM  11834  O3*  A   A 572     170.197 105.581 -21.550  1.00 37.59      A16S
ATOM  11835  P    A   A 573     169.810 104.396 -22.552  1.00 28.01      A16S
ATOM  11836  O1P  A   A 573     171.081 103.816 -23.038  1.00 32.58      A16S
ATOM  11837  O2P  A   A 573     168.838 104.943 -23.532  1.00 32.58      A16S
ATOM  11838  O5*  A   A 573     169.080 103.378 -21.568  1.00 28.01      A16S
ATOM  11839  C5*  A   A 573     169.183 101.965 -21.726  1.00 28.01      A16S
ATOM  11840  C4*  A   A 573     167.817 101.381 -21.958  1.00 28.01      A16S
ATOM  11841  O4*  A   A 573     166.959 101.571 -20.799  1.00 28.01      A16S
ATOM  11842  C1*  A   A 573     165.628 101.852 -21.227  1.00 28.01      A16S
ATOM  11843  N9   A   A 573     165.176 103.098 -20.580  1.00 32.58      A16S
ATOM  11844  C4   A   A 573     163.900 103.430 -20.178  1.00 32.58      A16S
ATOM  11845  N3   A   A 573     162.779 102.718 -20.336  1.00 32.58      A16S
ATOM  11846  C2   A   A 573     161.746 103.344 -19.795  1.00 32.58      A16S
ATOM  11847  N1   A   A 573     161.705 104.505 -19.153  1.00 32.58      A16S
ATOM  11848  C6   A   A 573     162.848 105.191 -18.998  1.00 32.58      A16S
ATOM  11849  N6   A   A 573     162.816 106.339 -18.321  1.00 32.58      A16S
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ATOM  11850  C5   A   A 573     164.010 104.649 -19.545  1.00 32.58      A16S
ATOM  11851  N7   A   A 573     165.314 105.102 -19.577  1.00 32.58      A16S
ATOM  11852  C8   A   A 573     165.962 104.158 -20.206  1.00 32.58      A16S
ATOM  11853  C2*  A   A 573     165.610 101.808 -22.764  1.00 28.01      A16S
ATOM  11854  O2*  A   A 573     165.136 100.533 -23.150  1.00 28.01      A16S
ATOM  11855  C3*  A   A 573     167.086 102.034 -23.111  1.00 28.01      A16S
ATOM  11856  O3*  A   A 573     167.519 101.376 -24.285  1.00 28.01      A16S
ATOM  11857  P    A   A 574     167.596 102.169 -25.673  1.00 20.18      A16S
ATOM  11858  O1P  A   A 574     168.274 101.287 -26.647  1.00 45.45      A16S
ATOM  11859  O2P  A   A 574     168.097 103.547 -25.463  1.00 45.45      A16S
ATOM  11860  O5*  A   A 574     166.080 102.195 -26.133  1.00 20.18      A16S
ATOM  11861  C5*  A   A 574     165.349 100.967 -26.266  1.00 20.18      A16S
ATOM  11862  C4*  A   A 574     163.890 101.263 -26.381  1.00 20.18      A16S
ATOM  11863  O4*  A   A 574     163.424 101.790 -25.128  1.00 20.18      A16S
ATOM  11864  C1*  A   A 574     162.518 102.845 -25.366  1.00 20.18      A16S
ATOM  11865  N9   A   A 574     162.991 104.013 -24.621  1.00 45.45      A16S
ATOM  11866  C4   A   A 574     162.297 104.645 -23.625  1.00 45.45      A16S
ATOM  11867  N3   A   A 574     161.063 104.356 -23.189  1.00 45.45      A16S
ATOM  11868  C2   A   A 574     160.726 105.162 -22.195  1.00 45.45      A16S
ATOM  11869  N1   A   A 574     161.427 106.145 -21.632  1.00 45.45      A16S
ATOM  11870  C6   A   A 574     162.658 106.408 -22.102  1.00 45.45      A16S
ATOM  11871  N6   A   A 574     163.348 107.393 -21.552  1.00 45.45      A16S
ATOM  11872  C5   A   A 574     163.134 105.630 -23.147  1.00 45.45      A16S
ATOM  11873  N7   A   A 574     164.328 105.642 -23.843  1.00 45.45      A16S
ATOM  11874  C8   A   A 574     164.191 104.672 -24.712  1.00 45.45      A16S
ATOM  11875  C2*  A   A 574     162.350 103.004 -26.880  1.00 20.18      A16S
ATOM  11876  O2*  A   A 574     161.189 102.324 -27.298  1.00 20.18      A16S
ATOM  11877  C3*  A   A 574     163.606 102.332 -27.407  1.00 20.18      A16S
ATOM  11878  O3*  A   A 574     163.388 101.693 -28.644  1.00 20.18      A16S
ATOM  11879  P    G   A 575     164.217 102.155 -29.933  1.00 28.06      A16S
ATOM  11880  O1P  G   A 575     163.756 101.281 -31.039  1.00 26.73      A16S
ATOM  11881  O2P  G   A 575     165.667 102.254 -29.611  1.00 26.73      A16S
ATOM  11882  O5*  G   A 575     163.689 103.621 -30.228  1.00 28.06      A16S
ATOM  11883  C5*  G   A 575     162.320 103.837 -30.571  1.00 28.06      A16S
ATOM  11884  C4*  G   A 575     162.126 103.593 -32.035  1.00 28.06      A16S
ATOM  11885  O4*  G   A 575     160.722 103.680 -32.351  1.00 28.06      A16S
ATOM  11886  C1*  G   A 575     160.448 104.807 -33.161  1.00 28.06      A16S
ATOM  11887  N9   G   A 575     159.323 105.483 -32.514  1.00 26.73      A16S
ATOM  11888  C4   G   A 575     157.992 105.311 -32.804  1.00 26.73      A16S
ATOM  11889  N3   G   A 575     157.491 104.568 -33.806  1.00 26.73      A16S
ATOM  11890  C2   G   A 575     156.168 104.538 -33.788  1.00 26.73      A16S
ATOM  11891  N2   G   A 575     155.505 103.843 -34.712  1.00 26.73      A16S
ATOM  11892  N1   G   A 575     155.396 105.184 -32.864  1.00 26.73      A16S
ATOM  11893  C6   G   A 575     155.883 105.963 -31.826  1.00 26.73      A16S
ATOM  11894  O6   G   A 575     155.090 106.511 -31.047  1.00 26.73      A16S
ATOM  11895  C5   G   A 575     157.311 106.009 -31.831  1.00 26.73      A16S
ATOM  11896  N7   G   A 575     158.193 106.658 -30.983  1.00 26.73      A16S
ATOM  11897  C8   G   A 575     159.372 106.335 -31.437  1.00 26.73      A16S
ATOM  11898  C2*  G   A 575     161.741 105.611 -33.290  1.00 28.06      A16S
ATOM  11899  O2*  G   A 575     161.882 106.179 -34.564  1.00 28.06      A16S
ATOM  11900  C3*  G   A 575     162.822 104.594 -32.913  1.00 28.06      A16S
ATOM  11901  O3*  G   A 575     163.800 103.977 -33.793  1.00 28.06      A16S
ATOM  11902  P    G   A 576     163.390 103.093 -35.090  1.00 24.64      A16S
ATOM  11903  O1P  G   A 576     164.586 102.221 -35.206  1.00 48.57      A16S
ATOM  11904  O2P  G   A 576     162.979 103.947 -36.255  1.00 48.57      A16S
ATOM  11905  O5*  G   A 576     162.171 102.166 -34.669  1.00 24.64      A16S
ATOM  11906  C5*  G   A 576     162.398 100.846 -34.195  1.00 24.64      A16S
ATOM  11907  C4*  G   A 576     161.922  99.812 -35.199  1.00 24.64      A16S
ATOM  11908  O4*  G   A 576     160.493  99.597 -35.113  1.00 24.64      A16S
ATOM  11909  C1*  G   A 576     159.947  99.498 -36.408  1.00 24.64      A16S
ATOM  11910  N9   G   A 576     158.611 100.076 -36.370  1.00 48.57      A16S
ATOM  11911  C4   G   A 576     157.448  99.541 -36.867  1.00 48.57      A16S
ATOM  11912  N3   G   A 576     157.313  98.353 -37.475  1.00 48.57      A16S
ATOM  11913  C2   G   A 576     156.063  98.134 -37.856  1.00 48.57      A16S
ATOM  11914  N2   G   A 576     155.732  97.003 -38.470  1.00 48.57      A16S
ATOM  11915  N1   G   A 576     155.041  99.009 -37.668  1.00 48.57      A16S
ATOM  11916  C6   G   A 576     155.161 100.247 -37.065  1.00 48.57      A16S
ATOM  11917  O6   G   A 576     154.175 100.998 -36.995  1.00 48.57      A16S
ATOM  11918  C5   G   A 576     156.484 100.484 -36.623  1.00 48.57      A16S
ATOM  11919  N7   G   A 576     157.020 101.573 -35.961  1.00 48.57      A16S
ATOM  11920  C8   G   A 576     158.279 101.285 -35.832  1.00 48.57      A16S
ATOM  11921  C2*  G   A 576     160.915 100.250 -37.320  1.00 24.64      A16S
ATOM  11922  O2*  G   A 576     160.805  99.743 -38.633  1.00 24.64      A16S
ATOM  11923  C3*  G   A 576     162.270  99.956 -36.672  1.00 24.64      A16S
ATOM  11924  O3*  G   A 576     162.739  98.699 -37.128  1.00 24.64      A16S
ATOM  11925  P    G   A 577     164.245  98.552 -37.672  1.00 26.22      A16S
ATOM  11926  O1P  G   A 577     164.327  97.202 -38.272  1.00 15.69      A16S
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ATOM  11927  O2P G   A 577     165.204  98.925 -36.617  1.00 15.69      A16S
ATOM  11928  O5* G   A 577     164.355  99.617 -38.842  1.00 26.22      A16S
ATOM  11929  C5* G   A 577     165.176 100.766 -38.691  1.00 26.22      A16S
ATOM  11930  C4* G   A 577     165.424 101.380 -40.028  1.00 26.22      A16S
ATOM  11931  O4* G   A 577     166.106 100.407 -40.845  1.00 26.22      A16S
ATOM  11932  C1* G   A 577     165.637 100.488 -42.169  1.00 26.22      A16S
ATOM  11933  N9  G   A 577     165.049  99.209 -42.527  1.00 15.69      A16S
ATOM  11934  C4  G   A 577     164.532  98.899 -43.752  1.00 15.69      A16S
ATOM  11935  N3  G   A 577     164.453  99.736 -44.802  1.00 15.69      A16S
ATOM  11936  C2  G   A 577     163.887  99.169 -45.841  1.00 15.69      A16S
ATOM  11937  N2  G   A 577     163.694  99.885 -46.962  1.00 15.69      A16S
ATOM  11938  N1  G   A 577     163.460  97.873 -45.855  1.00 15.69      A16S
ATOM  11939  C6  G   A 577     163.541  96.995 -44.788  1.00 15.69      A16S
ATOM  11940  O6  G   A 577     163.133  95.850 -44.914  1.00 15.69      A16S
ATOM  11941  C5  G   A 577     164.121  97.599 -43.659  1.00 15.69      A16S
ATOM  11942  N7  G   A 577     164.360  97.097 -42.386  1.00 15.69      A16S
ATOM  11943  C8  G   A 577     164.908  98.092 -41.748  1.00 15.69      A16S
ATOM  11944  C2* G   A 577     164.613 101.612 -42.248  1.00 26.22      A16S
ATOM  11945  O2* G   A 577     165.242 102.773 -42.742  1.00 26.22      A16S
ATOM  11946  C3* G   A 577     164.158 101.698 -40.799  1.00 26.22      A16S
ATOM  11947  O3* G   A 577     163.609 102.959 -40.439  1.00 26.22      A16S
ATOM  11948  P   C   A 578     162.025 103.186 -40.556  1.00 28.76      A16S
ATOM  11949  O1P C   A 578     161.775 104.506 -39.918  1.00 19.92      A16S
ATOM  11950  O2P C   A 578     161.301 101.983 -40.063  1.00 19.92      A16S
ATOM  11951  O5* C   A 578     161.774 103.260 -42.127  1.00 28.76      A16S
ATOM  11952  C5* C   A 578     162.202 104.391 -42.882  1.00 28.76      A16S
ATOM  11953  C4* C   A 578     161.786 104.243 -44.323  1.00 28.76      A16S
ATOM  11954  O4* C   A 578     162.420 103.060 -44.865  1.00 28.76      A16S
ATOM  11955  C1* C   A 578     161.583 102.479 -45.842  1.00 28.76      A16S
ATOM  11956  N1  C   A 578     161.247 101.112 -45.412  1.00 19.92      A16S
ATOM  11957  C6  C   A 578     161.523 100.692 -44.144  1.00 19.92      A16S
ATOM  11958  C2  C   A 578     160.642 100.235 -46.332  1.00 19.92      A16S
ATOM  11959  O2  C   A 578     160.374 100.645 -47.465  1.00 19.92      A16S
ATOM  11960  N3  C   A 578     160.364  98.968 -45.957  1.00 19.92      A16S
ATOM  11961  C4  C   A 578     160.657  98.562 -44.721  1.00 19.92      A16S
ATOM  11962  N4  C   A 578     160.384  97.296 -44.393  1.00 19.92      A16S
ATOM  11963  C5  C   A 578     161.250  99.437 -43.760  1.00 19.92      A16S
ATOM  11964  C2* C   A 578     160.353 103.373 -45.982  1.00 28.76      A16S
ATOM  11965  O2* C   A 578     160.572 104.339 -46.994  1.00 28.76      A16S
ATOM  11966  C3* C   A 578     160.306 104.044 -44.624  1.00 28.76      A16S
ATOM  11967  O3* C   A 578     159.551 105.250 -44.718  1.00 28.76      A16S
ATOM  11968  P   G   A 579     157.948 105.194 -44.545  1.00 38.38      A16S
ATOM  11969  O1P G   A 579     157.461 106.592 -44.597  1.00 49.41      A16S
ATOM  11970  O2P G   A 579     157.624 104.342 -43.364  1.00 49.41      A16S
ATOM  11971  O5* G   A 579     157.401 104.438 -45.836  1.00 38.38      A16S
ATOM  11972  C5* G   A 579     157.406 105.087 -47.109  1.00 38.38      A16S
ATOM  11973  C4* G   A 579     157.214 104.086 -48.222  1.00 38.38      A16S
ATOM  11974  O4* G   A 579     157.928 102.875 -47.892  1.00 38.38      A16S
ATOM  11975  C1* G   A 579     157.298 101.770 -48.498  1.00 38.38      A16S
ATOM  11976  N9  G   A 579     157.021 100.769 -47.476  1.00 49.41      A16S
ATOM  11977  C4  G   A 579     156.547  99.506 -47.687  1.00 49.41      A16S
ATOM  11978  N3  G   A 579     156.226  98.977 -48.877  1.00 49.41      A16S
ATOM  11979  C2  G   A 579     155.826  97.730 -48.760  1.00 49.41      A16S
ATOM  11980  N2  G   A 579     155.493  97.035 -49.849  1.00 49.41      A16S
ATOM  11981  N1  G   A 579     155.727  97.064 -47.567  1.00 49.41      A16S
ATOM  11982  C6  G   A 579     156.040  97.603 -46.325  1.00 49.41      A16S
ATOM  11983  O6  G   A 579     155.896  96.924 -45.292  1.00 49.41      A16S
ATOM  11984  C5  G   A 579     156.490  98.924 -46.441  1.00 49.41      A16S
ATOM  11985  N7  G   A 579     156.907  99.809 -45.465  1.00 49.41      A16S
ATOM  11986  C8  G   A 579     157.207 100.892 -46.124  1.00 49.41      A16S
ATOM  11987  C2* G   A 579     156.064 102.280 -49.230  1.00 38.38      A16S
ATOM  11988  O2* G   A 579     156.405 102.465 -50.592  1.00 38.38      A16S
ATOM  11989  C3* G   A 579     155.809 103.602 -48.522  1.00 38.38      A16S
ATOM  11990  O3* G   A 579     155.123 104.499 -49.385  1.00 38.38      A16S
ATOM  11991  P   U   A 580     153.532 104.677 -49.240  1.00 38.23      A16S
ATOM  11992  O1P U   A 580     153.151 105.794 -50.147  1.00 37.51      A16S
ATOM  11993  O2P U   A 580     153.187 104.746 -47.787  1.00 37.51      A16S
ATOM  11994  O5* U   A 580     152.918 103.305 -49.778  1.00 38.23      A16S
ATOM  11995  C5* U   A 580     152.801 103.030 -51.184  1.00 38.23      A16S
ATOM  11996  C4* U   A 580     152.315 101.614 -51.396  1.00 38.23      A16S
ATOM  11997  O4* U   A 580     153.258 100.692 -50.799  1.00 38.23      A16S
ATOM  11998  C1* U   A 580     152.576  99.557 -50.301  1.00 38.23      A16S
ATOM  11999  N1  U   A 580     152.807  99.456 -48.855  1.00 37.51      A16S
ATOM  12000  C6  U   A 580     153.370 100.483 -48.155  1.00 37.51      A16S
ATOM  12001  C2  U   A 580     152.422  98.279 -48.214  1.00 37.51      A16S
ATOM  12002  O2  U   A 580     151.941  97.320 -48.804  1.00 37.51      A16S
ATOM  12003  N3  U   A 580     152.627  98.262 -46.859  1.00 37.51      A16S
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ATOM  12004  C4  U   A 580     153.181  99.264 -46.099  1.00 37.51      A16S
ATOM  12005  O4  U   A 580     153.340  99.090 -44.887  1.00 37.51      A16S
ATOM  12006  C5  U   A 580     153.567 100.430 -46.838  1.00 37.51      A16S
ATOM  12007  C2* U   A 580     151.098  99.736 -50.611  1.00 38.23      A16S
ATOM  12008  O2* U   A 580     150.789  99.063 -51.812  1.00 38.23      A16S
ATOM  12009  C3* U   A 580     150.997 101.243 -50.740  1.00 38.23      A16S
ATOM  12010  O3* U   A 580     149.873 101.603 -51.510  1.00 38.23      A16S
ATOM  12011  P   G   A 581     148.592 102.212 -50.774  1.00 32.13      A16S
ATOM  12012  O1P G   A 581     147.662 102.688 -51.830  1.00 33.08      A16S
ATOM  12013  O2P G   A 581     149.076 103.155 -49.741  1.00 33.08      A16S
ATOM  12014  O5* G   A 581     147.939 100.987 -50.005  1.00 32.13      A16S
ATOM  12015  C5* G   A 581     147.283  99.947 -50.723  1.00 32.13      A16S
ATOM  12016  C4* G   A 581     147.341  98.677 -49.930  1.00 32.13      A16S
ATOM  12017  O4* G   A 581     148.673  98.605 -49.382  1.00 32.13      A16S
ATOM  12018  C1* G   A 581     148.638  97.998 -48.112  1.00 32.13      A16S
ATOM  12019  N9  G   A 581     149.123  98.957 -47.139  1.00 33.08      A16S
ATOM  12020  C4  G   A 581     149.556  98.653 -45.889  1.00 33.08      A16S
ATOM  12021  N3  G   A 581     149.599  97.419 -45.358  1.00 33.08      A16S
ATOM  12022  C2  G   A 581     150.008  97.441 -44.115  1.00 33.08      A16S
ATOM  12023  N2  G   A 581     150.067  96.302 -43.422  1.00 33.08      A16S
ATOM  12024  N1  G   A 581     150.375  98.584 -43.454  1.00 33.08      A16S
ATOM  12025  C6  G   A 581     150.344  99.866 -43.995  1.00 33.08      A16S
ATOM  12026  O6  G   A 581     150.693 100.836 -43.319  1.00 33.08      A16S
ATOM  12027  C5  G   A 581     149.888  99.856 -45.312  1.00 33.08      A16S
ATOM  12028  N7  G   A 581     149.677 100.905 -46.196  1.00 33.08      A16S
ATOM  12029  C8  G   A 581     149.225 100.324 -47.271  1.00 33.08      A16S
ATOM  12030  C2* G   A 581     147.201  97.605 -47.820  1.00 32.13      A16S
ATOM  12031  O2* G   A 581     147.033  96.259 -48.215  1.00 32.13      A16S
ATOM  12032  C3* G   A 581     146.445  98.581 -48.706  1.00 32.13      A16S
ATOM  12033  O3* G   A 581     145.155  98.089 -49.026  1.00 32.13      A16S
ATOM  12034  P   U   A 582     143.961  98.267 -47.967  1.00 33.35      A16S
ATOM  12035  O1P U   A 582     142.724  98.352 -48.762  1.00 34.36      A16S
ATOM  12036  O2P U   A 582     144.293  99.362 -47.008  1.00 34.36      A16S
ATOM  12037  O5* U   A 582     143.949  96.873 -47.214  1.00 33.35      A16S
ATOM  12038  C5* U   A 582     143.850  95.672 -47.967  1.00 33.35      A16S
ATOM  12039  C4* U   A 582     143.592  94.507 -47.059  1.00 33.35      A16S
ATOM  12040  O4* U   A 582     144.828  94.010 -46.493  1.00 33.35      A16S
ATOM  12041  C1* U   A 582     144.584  93.499 -45.202  1.00 33.35      A16S
ATOM  12042  N1  U   A 582     145.367  94.276 -44.235  1.00 34.36      A16S
ATOM  12043  C6  U   A 582     145.872  95.514 -44.536  1.00 34.36      A16S
ATOM  12044  C2  U   A 582     145.559  93.715 -42.996  1.00 34.36      A16S
ATOM  12045  O2  U   A 582     145.159  92.610 -42.711  1.00 34.36      A16S
ATOM  12046  N3  U   A 582     146.248  94.493 -42.106  1.00 34.36      A16S
ATOM  12047  C4  U   A 582     146.778  95.743 -42.333  1.00 34.36      A16S
ATOM  12048  O4  U   A 582     147.398  96.315 -41.429  1.00 34.36      A16S
ATOM  12049  C5  U   A 582     146.556  96.246 -43.654  1.00 34.36      A16S
ATOM  12050  C2* U   A 582     143.090  93.643 -44.934  1.00 33.35      A16S
ATOM  12051  O2* U   A 582     142.442  92.448 -45.304  1.00 33.35      A16S
ATOM  12052  C3* U   A 582     142.727  94.789 -45.857  1.00 33.35      A16S
ATOM  12053  O3* U   A 582     141.359  94.821 -46.172  1.00 33.35      A16S
ATOM  12054  P   A   A 583     140.352  95.564 -45.174  1.00 36.02      A16S
ATOM  12055  O1P A   A 583     138.992  95.259 -45.678  1.00 27.09      A16S
ATOM  12056  O2P A   A 583     140.763  96.996 -44.948  1.00 27.09      A16S
ATOM  12057  O5* A   A 583     140.542  94.758 -43.823  1.00 36.02      A16S
ATOM  12058  C5* A   A 583     140.086  93.416 -43.732  1.00 36.02      A16S
ATOM  12059  C4* A   A 583     140.403  92.884 -42.384  1.00 36.02      A16S
ATOM  12060  O4* A   A 583     141.830  92.958 -42.200  1.00 36.02      A16S
ATOM  12061  C1* A   A 583     142.123  93.231 -40.849  1.00 36.02      A16S
ATOM  12062  N9  A   A 583     142.929  94.436 -40.789  1.00 27.09      A16S
ATOM  12063  C4  A   A 583     143.725  94.806 -39.742  1.00 27.09      A16S
ATOM  12064  N3  A   A 583     143.883  94.165 -38.579  1.00 27.09      A16S
ATOM  12065  C2  A   A 583     144.758  94.806 -37.809  1.00 27.09      A16S
ATOM  12066  N1  A   A 583     145.443  95.927 -38.057  1.00 27.09      A16S
ATOM  12067  C6  A   A 583     145.249  96.542 -39.240  1.00 27.09      A16S
ATOM  12068  N6  A   A 583     145.930  97.653 -39.504  1.00 27.09      A16S
ATOM  12069  C5  A   A 583     144.340  95.968 -40.133  1.00 27.09      A16S
ATOM  12070  N7  A   A 583     143.914  96.345 -41.394  1.00 27.09      A16S
ATOM  12071  C8  A   A 583     143.074  95.405 -41.734  1.00 27.09      A16S
ATOM  12072  C2* A   A 583     140.806  93.376 -40.107  1.00 36.02      A16S
ATOM  12073  O2* A   A 583     140.530  92.133 -39.501  1.00 36.02      A16S
ATOM  12074  C3* A   A 583     139.854  93.705 -41.243  1.00 36.02      A16S
ATOM  12075  O3* A   A 583     138.525  93.346 -40.950  1.00 36.02      A16S
ATOM  12076  P   G   A 584     137.507  94.473 -40.443  1.00 31.40      A16S
ATOM  12077  O1P G   A 584     136.277  93.765 -39.979  1.00 35.54      A16S
ATOM  12078  O2P G   A 584     137.404  95.506 -41.517  1.00 35.54      A16S
ATOM  12079  O5* G   A 584     138.235  95.124 -39.177  1.00 31.40      A16S
ATOM  12080  C5* G   A 584     138.322  94.393 -37.944  1.00 31.40      A16S
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ATOM  12081  C4* G   A 584     139.223  95.093 -36.962  1.00 31.40      A16S
ATOM  12082  O4* G   A 584     140.540  95.223 -37.538  1.00 31.40      A16S
ATOM  12083  C1* G   A 584     141.143  96.424 -37.090  1.00 31.40      A16S
ATOM  12084  N9  G   A 584     141.398  97.274 -38.251  1.00 35.54      A16S
ATOM  12085  C4  G   A 584     142.175  98.406 -38.290  1.00 35.54      A16S
ATOM  12086  N3  G   A 584     142.840  98.942 -37.257  1.00 35.54      A16S
ATOM  12087  C2  G   A 584     143.476 100.038 -37.598  1.00 35.54      A16S
ATOM  12088  N2  G   A 584     144.189 100.703 -36.679  1.00 35.54      A16S
ATOM  12089  N1  G   A 584     143.459 100.565 -38.858  1.00 35.54      A16S
ATOM  12090  C6  G   A 584     142.776 100.029 -39.938  1.00 35.54      A16S
ATOM  12091  O6  G   A 584     142.806 100.595 -41.038  1.00 35.54      A16S
ATOM  12092  C5  G   A 584     142.100  98.856 -39.585  1.00 35.54      A16S
ATOM  12093  N7  G   A 584     141.301  98.025 -40.350  1.00 35.54      A16S
ATOM  12094  C8  G   A 584     140.905  97.103 -39.518  1.00 35.54      A16S
ATOM  12095  C2* G   A 584     140.180  97.069 -36.099  1.00 31.40      A16S
ATOM  12096  O2* G   A 584     140.493  96.630 -34.791  1.00 31.40      A16S
ATOM  12097  C3* G   A 584     138.847  96.508 -36.566  1.00 31.40      A16S
ATOM  12098  O3* G   A 584     137.873  96.554 -35.529  1.00 31.40      A16S
ATOM  12099  P   G   A 585     136.961  97.874 -35.347  1.00 26.20      A16S
ATOM  12100  O1P G   A 585     136.059  97.509 -34.240  1.00 27.60      A16S
ATOM  12101  O2P G   A 585     136.393  98.316 -36.647  1.00 27.60      A16S
ATOM  12102  O5* G   A 585     137.960  99.013 -34.843  1.00 26.20      A16S
ATOM  12103  C5* G   A 585     138.578  98.909 -33.551  1.00 26.20      A16S
ATOM  12104  C4* G   A 585     139.446 100.103 -33.282  1.00 26.20      A16S
ATOM  12105  O4* G   A 585     140.530 100.110 -34.224  1.00 26.20      A16S
ATOM  12106  C1* G   A 585     140.840 101.432 -34.597  1.00 26.20      A16S
ATOM  12107  N9  G   A 585     140.606 101.538 -36.026  1.00 27.60      A16S
ATOM  12108  C4  G   A 585     141.170 102.437 -36.885  1.00 27.60      A16S
ATOM  12109  N3  G   A 585     142.020 103.425 -36.550  1.00 27.60      A16S
ATOM  12110  C2  G   A 585     142.411 104.123 -37.605  1.00 27.60      A16S
ATOM  12111  N2  G   A 585     143.262 105.160 -37.453  1.00 27.60      A16S
ATOM  12112  N1  G   A 585     142.002 103.860 -38.884  1.00 27.60      A16S
ATOM  12113  C6  G   A 585     141.139 102.841 -39.252  1.00 27.60      A16S
ATOM  12114  O6  G   A 585     140.862 102.672 -40.451  1.00 27.60      A16S
ATOM  12115  C5  G   A 585     140.700 102.099 -38.124  1.00 27.60      A16S
ATOM  12116  N7  G   A 585     139.830 101.026 -38.039  1.00 27.60      A16S
ATOM  12117  C8  G   A 585     139.801 100.733 -36.775  1.00 27.60      A16S
ATOM  12118  C2* G   A 585     139.950 102.356 -33.786  1.00 26.20      A16S
ATOM  12119  O2* G   A 585     140.642 102.738 -32.619  1.00 26.20      A16S
ATOM  12120  C3* G   A 585     138.779 101.441 -33.481  1.00 26.20      A16S
ATOM  12121  O3* G   A 585     138.050 101.849 -32.342  1.00 26.20      A16S
ATOM  12122  P   C   A 586     136.726 102.731 -32.545  1.00 25.46      A16S
ATOM  12123  O1P C   A 586     136.288 103.102 -31.161  1.00 23.72      A16S
ATOM  12124  O2P C   A 586     135.808 101.982 -33.443  1.00 23.72      A16S
ATOM  12125  O5* C   A 586     137.249 104.020 -33.320  1.00 25.46      A16S
ATOM  12126  C5* C   A 586     138.060 104.954 -32.615  1.00 25.46      A16S
ATOM  12127  C4* C   A 586     138.559 106.054 -33.512  1.00 25.46      A16S
ATOM  12128  O4* C   A 586     139.512 105.547 -34.474  1.00 25.46      A16S
ATOM  12129  C1* C   A 586     139.560 106.422 -35.582  1.00 25.46      A16S
ATOM  12130  N1  C   A 586     139.160 105.705 -36.783  1.00 23.72      A16S
ATOM  12131  C6  C   A 586     138.528 104.503 -36.728  1.00 23.72      A16S
ATOM  12132  C2  C   A 586     139.408 106.304 -37.983  1.00 23.72      A16S
ATOM  12133  O2  C   A 586     140.001 107.384 -37.981  1.00 23.72      A16S
ATOM  12134  N3  C   A 586     138.999 105.718 -39.115  1.00 23.72      A16S
ATOM  12135  C4  C   A 586     138.357 104.564 -39.058  1.00 23.72      A16S
ATOM  12136  N4  C   A 586     137.940 104.032 -40.193  1.00 23.72      A16S
ATOM  12137  C5  C   A 586     138.108 103.907 -37.835  1.00 23.72      A16S
ATOM  12138  C2* C   A 586     138.517 107.504 -35.359  1.00 25.46      A16S
ATOM  12139  O2* C   A 586     139.166 108.647 -34.859  1.00 25.46      A16S
ATOM  12140  C3* C   A 586     137.582 106.826 -34.369  1.00 25.46      A16S
ATOM  12141  O3* C   A 586     136.817 107.773 -33.662  1.00 25.46      A16S
ATOM  12142  P   G   A 587     135.423 108.245 -34.280  1.00 46.26      A16S
ATOM  12143  O1P G   A 587     134.937 109.318 -33.383  1.00 34.66      A16S
ATOM  12144  O2P G   A 587     134.567 107.071 -34.568  1.00 34.66      A16S
ATOM  12145  O5* G   A 587     135.827 108.893 -35.669  1.00 46.26      A16S
ATOM  12146  C5* G   A 587     136.640 110.069 -35.704  1.00 46.26      A16S
ATOM  12147  C4* G   A 587     136.389 110.828 -36.975  1.00 46.26      A16S
ATOM  12148  O4* G   A 587     136.776 109.985 -38.092  1.00 46.26      A16S
ATOM  12149  C1* G   A 587     135.720 109.915 -39.016  1.00 46.26      A16S
ATOM  12150  N9  G   A 587     135.674 108.573 -39.566  1.00 34.66      A16S
ATOM  12151  C4  G   A 587     135.630 108.242 -40.894  1.00 34.66      A16S
ATOM  12152  N3  G   A 587     135.686 109.103 -41.927  1.00 34.66      A16S
ATOM  12153  C2  G   A 587     135.578 108.486 -43.087  1.00 34.66      A16S
ATOM  12154  N2  G   A 587     135.610 109.185 -44.225  1.00 34.66      A16S
ATOM  12155  N1  G   A 587     135.425 107.138 -43.220  1.00 34.66      A16S
ATOM  12156  C6  G   A 587     135.349 106.237 -42.169  1.00 34.66      A16S
ATOM  12157  O6  G   A 587     135.170 105.043 -42.400  1.00 34.66      A16S
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ATOM  12158  C5  G   A 587     135.481 106.879 -40.924  1.00 34.66      A16S
ATOM  12159  N7  G   A 587     135.480 106.356 -39.639  1.00 34.66      A16S
ATOM  12160  C8  G   A 587     135.610 107.398 -38.868  1.00 34.66      A16S
ATOM  12161  C2* G   A 587     134.443 110.234 -38.242  1.00 46.26      A16S
ATOM  12162  O2* G   A 587     133.433 110.717 -39.120  1.00 46.26      A16S
ATOM  12163  C3* G   A 587     134.943 111.260 -37.229  1.00 46.26      A16S
ATOM  12164  O3* G   A 587     134.920 112.539 -37.839  1.00 46.26      A16S
ATOM  12165  P   G   A 588     133.654 113.494 -37.631  1.00 45.86      A16S
ATOM  12166  O1P G   A 588     133.868 114.092 -36.295  1.00 41.32      A16S
ATOM  12167  O2P G   A 588     132.383 112.780 -37.929  1.00 41.32      A16S
ATOM  12168  O5* G   A 588     133.859 114.599 -38.752  1.00 45.86      A16S
ATOM  12169  C5* G   A 588     134.980 115.477 -38.691  1.00 45.86      A16S
ATOM  12170  C4* G   A 588     134.803 116.624 -39.650  1.00 45.86      A16S
ATOM  12171  O4* G   A 588     134.979 116.182 -41.015  1.00 45.86      A16S
ATOM  12172  C1* G   A 588     134.266 117.033 -41.876  1.00 45.86      A16S
ATOM  12173  N9  G   A 588     133.429 116.229 -42.755  1.00 41.32      A16S
ATOM  12174  C4  G   A 588     132.613 116.705 -43.753  1.00 41.32      A16S
ATOM  12175  N3  G   A 588     132.428 117.997 -44.068  1.00 41.32      A16S
ATOM  12176  C2  G   A 588     131.589 118.142 -45.073  1.00 41.32      A16S
ATOM  12177  N2  G   A 588     131.298 119.367 -45.510  1.00 41.32      A16S
ATOM  12178  N1  G   A 588     130.976 117.103 -45.716  1.00 41.32      A16S
ATOM  12179  C6  G   A 588     131.138 115.768 -45.400  1.00 41.32      A16S
ATOM  12180  O6  G   A 588     130.508 114.917 -46.019  1.00 41.32      A16S
ATOM  12181  C5  G   A 588     132.048 115.592 -44.332  1.00 41.32      A16S
ATOM  12182  N7  G   A 588     132.492 114.435 -43.709  1.00 41.32      A16S
ATOM  12183  C8  G   A 588     133.303 114.863 -42.775  1.00 41.32      A16S
ATOM  12184  C2* G   A 588     133.496 118.028 -41.011  1.00 45.86      A16S
ATOM  12185  O2* G   A 588     134.261 119.218 -40.925  1.00 45.86      A16S
ATOM  12186  C3* G   A 588     133.455 117.313 -39.669  1.00 45.86      A16S
ATOM  12187  O3* G   A 588     133.311 118.224 -38.586  1.00 45.86      A16S
ATOM  12188  P   C   A 589     131.865 118.432 -37.913  1.00 38.59      A16S
ATOM  12189  O1P C   A 589     132.083 119.367 -36.778  1.00 39.63      A16S
ATOM  12190  O2P C   A 589     131.231 117.119 -37.672  1.00 39.63      A16S
ATOM  12191  O5* C   A 589     131.001 119.148 -39.041  1.00 38.59      A16S
ATOM  12192  C5* C   A 589     131.177 120.541 -39.299  1.00 38.59      A16S
ATOM  12193  C4* C   A 589     130.196 121.018 -40.336  1.00 38.59      A16S
ATOM  12194  O4* C   A 589     130.494 120.424 -41.624  1.00 38.59      A16S
ATOM  12195  C1* C   A 589     129.304 120.323 -42.378  1.00 38.59      A16S
ATOM  12196  N1  C   A 589     129.072 118.920 -42.705  1.00 39.63      A16S
ATOM  12197  C6  C   A 589     129.554 117.927 -41.909  1.00 39.63      A16S
ATOM  12198  C2  C   A 589     128.329 118.615 -43.844  1.00 39.63      A16S
ATOM  12199  O2  C   A 589     127.918 119.544 -44.555  1.00 39.63      A16S
ATOM  12200  N3  C   A 589     128.075 117.321 -44.145  1.00 39.63      A16S
ATOM  12201  C4  C   A 589     128.537 116.355 -43.352  1.00 39.63      A16S
ATOM  12202  N4  C   A 589     128.257 115.085 -43.671  1.00 39.63      A16S
ATOM  12203  C5  C   A 589     129.311 116.643 -42.189  1.00 39.63      A16S
ATOM  12204  C2* C   A 589     128.167 120.865 -41.519  1.00 38.59      A16S
ATOM  12205  O2* C   A 589     127.997 122.236 -41.813  1.00 38.59      A16S
ATOM  12206  C3* C   A 589     128.734 120.683 -40.124  1.00 38.59      A16S
ATOM  12207  O3* C   A 589     128.099 121.542 -39.199  1.00 38.59      A16S
ATOM  12208  P   C   A 590     126.795 121.023 -38.420  1.00 43.85      A16S
ATOM  12209  O1P C   A 590     126.494 122.036 -37.361  1.00 48.71      A16S
ATOM  12210  O2P C   A 590     127.015 119.610 -38.029  1.00 48.71      A16S
ATOM  12211  O5* C   A 590     125.680 120.988 -39.562  1.00 43.85      A16S
ATOM  12212  C5* C   A 590     125.155 122.200 -40.137  1.00 43.85      A16S
ATOM  12213  C4* C   A 590     123.977 121.889 -41.035  1.00 43.85      A16S
ATOM  12214  O4* C   A 590     124.434 121.172 -42.209  1.00 43.85      A16S
ATOM  12215  C1* C   A 590     123.427 120.273 -42.638  1.00 43.85      A16S
ATOM  12216  N1  C   A 590     123.960 118.906 -42.663  1.00 48.71      A16S
ATOM  12217  C6  C   A 590     125.085 118.561 -41.972  1.00 48.71      A16S
ATOM  12218  C2  C   A 590     123.275 117.955 -43.397  1.00 48.71      A16S
ATOM  12219  O2  C   A 590     122.277 118.308 -44.024  1.00 48.71      A16S
ATOM  12220  N3  C   A 590     123.709 116.681 -43.411  1.00 48.71      A16S
ATOM  12221  C4  C   A 590     124.794 116.346 -42.725  1.00 48.71      A16S
ATOM  12222  N4  C   A 590     125.182 115.072 -42.752  1.00 48.71      A16S
ATOM  12223  C5  C   A 590     125.532 117.301 -41.974  1.00 48.71      A16S
ATOM  12224  C2* C   A 590     122.247 120.377 -41.678  1.00 43.85      A16S
ATOM  12225  O2* C   A 590     121.248 121.174 -42.267  1.00 43.85      A16S
ATOM  12226  C3* C   A 590     122.902 120.987 -40.445  1.00 43.85      A16S
ATOM  12227  O3* C   A 590     121.971 121.679 -39.624  1.00 43.85      A16S
ATOM  12228  P   U   A 591     121.095 120.852 -38.556  1.00 52.46      A16S
ATOM  12229  O1P U   A 591     120.312 121.862 -37.798  1.00 62.61      A16S
ATOM  12230  O2P U   A 591     121.999 119.933 -37.813  1.00 62.61      A16S
ATOM  12231  O5* U   A 591     120.107 119.985 -39.475  1.00 52.46      A16S
ATOM  12232  C5* U   A 591     119.129 120.648 -40.307  1.00 52.46      A16S
ATOM  12233  C4* U   A 591     118.249 119.659 -41.053  1.00 52.46      A16S
ATOM  12234  O4* U   A 591     118.966 119.024 -42.142  1.00 52.46      A16S
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ATOM  12235  C1* U   A 591     118.393 117.751 -42.406  1.00 52.46      A16S
ATOM  12236  N1  U   A 591     119.403 116.711 -42.184  1.00 62.61      A16S
ATOM  12237  C6  U   A 591     120.452 116.891 -41.321  1.00 62.61      A16S
ATOM  12238  C2  U   A 591     119.234 115.529 -42.856  1.00 62.61      A16S
ATOM  12239  O2  U   A 591     118.336 115.347 -43.656  1.00 62.61      A16S
ATOM  12240  N3  U   A 591     120.154 114.563 -42.566  1.00 62.61      A16S
ATOM  12241  C4  U   A 591     121.209 114.666 -41.704  1.00 62.61      A16S
ATOM  12242  O4  U   A 591     121.948 113.697 -41.544  1.00 62.61      A16S
ATOM  12243  C5  U   A 591     121.335 115.935 -41.063  1.00 62.61      A16S
ATOM  12244  C2* U   A 591     117.260 117.533 -41.410  1.00 52.46      A16S
ATOM  12245  O2* U   A 591     116.014 117.805 -42.010  1.00 52.46      A16S
ATOM  12246  C3* U   A 591     117.641 118.495 -40.294  1.00 52.46      A16S
ATOM  12247  O3* U   A 591     116.511 118.828 -39.527  1.00 52.46      A16S
ATOM  12248  P   G   A 592     116.130 117.904 -38.276  1.00 50.00      A16S
ATOM  12249  O1P G   A 592     115.074 118.647 -37.553  1.00 50.28      A16S
ATOM  12250  O2P G   A 592     117.396 117.555 -37.571  1.00 50.28      A16S
ATOM  12251  O5* G   A 592     115.524 116.569 -38.922  1.00 50.00      A16S
ATOM  12252  C5* G   A 592     114.268 116.595 -39.630  1.00 50.00      A16S
ATOM  12253  C4* G   A 592     114.000 115.275 -40.325  1.00 50.00      A16S
ATOM  12254  O4* G   A 592     115.057 115.005 -41.276  1.00 50.00      A16S
ATOM  12255  C1* G   A 592     115.248 113.602 -41.400  1.00 50.00      A16S
ATOM  12256  N9  G   A 592     116.621 113.281 -41.008  1.00 50.28      A16S
ATOM  12257  C4  G   A 592     117.245 112.069 -41.152  1.00 50.28      A16S
ATOM  12258  N3  G   A 592     116.720 110.977 -41.740  1.00 50.28      A16S
ATOM  12259  C2  G   A 592     117.541 109.951 -41.697  1.00 50.28      A16S
ATOM  12260  N2  G   A 592     117.187 108.795 -42.262  1.00 50.28      A16S
ATOM  12261  N1  G   A 592     118.772 109.985 -41.099  1.00 50.28      A16S
ATOM  12262  C6  G   A 592     119.327 111.092 -40.465  1.00 50.28      A16S
ATOM  12263  O6  G   A 592     120.432 110.997 -39.901  1.00 50.28      A16S
ATOM  12264  C5  G   A 592     118.471 112.214 -40.546  1.00 50.28      A16S
ATOM  12265  N7  G   A 592     118.642 113.508 -40.084  1.00 50.28      A16S
ATOM  12266  C8  G   A 592     117.524 114.106 -40.384  1.00 50.28      A16S
ATOM  12267  C2* G   A 592     114.222 112.917 -40.495  1.00 50.00      A16S
ATOM  12268  O2* G   A 592     113.094 112.542 -41.262  1.00 50.00      A16S
ATOM  12269  C3* G   A 592     113.921 114.014 -39.480  1.00 50.00      A16S
ATOM  12270  O3* G   A 592     112.634 113.837 -38.915  1.00 50.00      A16S
ATOM  12271  P   G   A 593     112.479 113.037 -37.526  1.00 42.31      A16S
ATOM  12272  O1P G   A 593     111.091 113.250 -37.037  1.00 58.05      A16S
ATOM  12273  O2P G   A 593     113.631 113.379 -36.643  1.00 58.05      A16S
ATOM  12274  O5* G   A 593     112.598 111.504 -37.933  1.00 42.31      A16S
ATOM  12275  C5* G   A 593     111.536 110.856 -38.633  1.00 42.31      A16S
ATOM  12276  C4* G   A 593     111.932 109.452 -38.989  1.00 42.31      A16S
ATOM  12277  O4* G   A 593     113.086 109.485 -39.862  1.00 42.31      A16S
ATOM  12278  C1* G   A 593     113.908 108.366 -39.606  1.00 42.31      A16S
ATOM  12279  N9  G   A 593     115.213 108.839 -39.154  1.00 58.05      A16S
ATOM  12280  C4  G   A 593     116.295 108.050 -38.877  1.00 58.05      A16S
ATOM  12281  N3  G   A 593     116.342 106.716 -39.012  1.00 58.05      A16S
ATOM  12282  C2  G   A 593     117.496 106.227 -38.639  1.00 58.05      A16S
ATOM  12283  N2  G   A 593     117.696 104.914 -38.718  1.00 58.05      A16S
ATOM  12284  N1  G   A 593     118.537 106.987 -38.164  1.00 58.05      A16S
ATOM  12285  C6  G   A 593     118.516 108.371 -38.016  1.00 58.05      A16S
ATOM  12286  O6  G   A 593     119.519 108.975 -37.571  1.00 58.05      A16S
ATOM  12287  C5  G   A 593     117.269 108.909 -38.421  1.00 58.05      A16S
ATOM  12288  N7  G   A 593     116.817 110.221 -38.439  1.00 58.05      A16S
ATOM  12289  C8  G   A 593     115.596 110.132 -38.887  1.00 58.05      A16S
ATOM  12290  C2* G   A 593     113.222 107.529 -38.527  1.00 42.31      A16S
ATOM  12291  O2* G   A 593     112.475 106.515 -39.162  1.00 42.31      A16S
ATOM  12292  C3* G   A 593     112.357 108.569 -37.834  1.00 42.31      A16S
ATOM  12293  O3* G   A 593     111.233 107.996 -37.203  1.00 42.31      A16S
ATOM  12294  P   G   A 594     111.269 107.710 -35.627  1.00 51.95      A16S
ATOM  12295  O1P G   A 594     109.904 107.286 -35.243  1.00 55.59      A16S
ATOM  12296  O2P G   A 594     111.908 108.864 -34.915  1.00 55.59      A16S
ATOM  12297  O5* G   A 594     112.215 106.436 -35.507  1.00 51.95      A16S
ATOM  12298  C5* G   A 594     111.895 105.217 -36.202  1.00 51.95      A16S
ATOM  12299  C4* G   A 594     113.038 104.228 -36.106  1.00 51.95      A16S
ATOM  12300  O4* G   A 594     114.198 104.723 -36.831  1.00 51.95      A16S
ATOM  12301  C1* G   A 594     115.382 104.321 -36.163  1.00 51.95      A16S
ATOM  12302  N9  G   A 594     116.084 105.521 -35.713  1.00 55.59      A16S
ATOM  12303  C4  G   A 594     117.413 105.620 -35.395  1.00 55.59      A16S
ATOM  12304  N3  G   A 594     118.314 104.625 -35.466  1.00 55.59      A16S
ATOM  12305  C2  G   A 594     119.513 105.026 -35.107  1.00 55.59      A16S
ATOM  12306  N2  G   A 594     120.528 104.159 -35.136  1.00 55.59      A16S
ATOM  12307  N1  G   A 594     119.804 106.310 -34.696  1.00 55.59      A16S
ATOM  12308  C6  G   A 594     118.889 107.353 -34.615  1.00 55.59      A16S
ATOM  12309  O6  G   A 594     119.254 108.479 -34.239  1.00 55.59      A16S
ATOM  12310  C5  G   A 594     117.602 106.932 -35.007  1.00 55.59      A16S
ATOM  12311  N7  G   A 594     116.417 107.644 -35.087  1.00 55.59      A16S
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ATOM  12312  C8  G   A 594     115.546 106.769 -35.510  1.00 55.59      A16S
ATOM  12313  C2* G   A 594     114.967 103.433 -34.988  1.00 51.95      A16S
ATOM  12314  O2* G   A 594     114.953 102.081 -35.402  1.00 51.95      A16S
ATOM  12315  C3* G   A 594     113.558 103.929 -34.710  1.00 51.95      A16S
ATOM  12316  O3* G   A 594     112.789 102.944 -34.053  1.00 51.95      A16S
ATOM  12317  P   G   A 595     112.441 103.134 -32.501  1.00 50.53      A16S
ATOM  12318  O1P G   A 595     111.647 101.961 -32.049  1.00 51.80      A16S
ATOM  12319  O2P G   A 595     111.917 104.511 -32.298  1.00 51.80      A16S
ATOM  12320  O5* G   A 595     113.846 103.081 -31.766  1.00 50.53      A16S
ATOM  12321  C5* G   A 595     114.690 101.932 -31.861  1.00 50.53      A16S
ATOM  12322  C4* G   A 595     115.977 102.211 -31.146  1.00 50.53      A16S
ATOM  12323  O4* G   A 595     116.473 103.464 -31.675  1.00 50.53      A16S
ATOM  12324  C1* G   A 595     116.640 104.386 -30.633  1.00 50.53      A16S
ATOM  12325  N9  G   A 595     116.179 105.678 -31.105  1.00 51.80      A16S
ATOM  12326  C4  G   A 595     116.918 106.819 -31.188  1.00 51.80      A16S
ATOM  12327  N3  G   A 595     118.218 106.935 -30.887  1.00 51.80      A16S
ATOM  12328  C2  G   A 595     118.650 108.160 -31.062  1.00 51.80      A16S
ATOM  12329  N2  G   A 595     119.924 108.447 -30.822  1.00 51.80      A16S
ATOM  12330  N1  G   A 595     117.868 109.194 -31.491  1.00 51.80      A16S
ATOM  12331  C6  G   A 595     116.525 109.093 -31.816  1.00 51.80      A16S
ATOM  12332  O6  G   A 595     115.908 110.087 -32.218  1.00 51.80      A16S
ATOM  12333  C5  G   A 595     116.051 107.783 -31.634  1.00 51.80      A16S
ATOM  12334  N7  G   A 595     114.794 107.250 -31.848  1.00 51.80      A16S
ATOM  12335  C8  G   A 595     114.920 105.996 -31.528  1.00 51.80      A16S
ATOM  12336  C2* G   A 595     115.807 103.900 -29.457  1.00 50.53      A16S
ATOM  12337  O2* G   A 595     116.427 104.300 -28.255  1.00 50.53      A16S
ATOM  12338  C3* G   A 595     115.850 102.392 -29.635  1.00 50.53      A16S
ATOM  12339  O3* G   A 595     117.012 101.916 -28.984  1.00 50.53      A16S
ATOM  12340  P   C   A 596     117.104 100.381 -28.538  1.00 38.26      A16S
ATOM  12341  O1P C   A 596     115.898  99.669 -29.030  1.00 63.66      A16S
ATOM  12342  O2P C   A 596     117.451 100.337 -27.092  1.00 63.66      A16S
ATOM  12343  O5* C   A 596     118.351  99.868 -29.381  1.00 38.26      A16S
ATOM  12344  C5* C   A 596     118.777  98.504 -29.327  1.00 38.26      A16S
ATOM  12345  C4* C   A 596     120.275  98.433 -29.481  1.00 38.26      A16S
ATOM  12346  O4* C   A 596     120.656  98.872 -30.811  1.00 38.26      A16S
ATOM  12347  C1* C   A 596     121.831  99.657 -30.739  1.00 38.26      A16S
ATOM  12348  N1  C   A 596     121.496 101.034 -31.125  1.00 63.66      A16S
ATOM  12349  C6  C   A 596     120.211 101.396 -31.422  1.00 63.66      A16S
ATOM  12350  C2  C   A 596     122.520 101.987 -31.140  1.00 63.66      A16S
ATOM  12351  O2  C   A 596     123.689 101.617 -30.923  1.00 63.66      A16S
ATOM  12352  N3  C   A 596     122.212 103.279 -31.390  1.00 63.66      A16S
ATOM  12353  C4  C   A 596     120.947 103.627 -31.631  1.00 63.66      A16S
ATOM  12354  N4  C   A 596     120.685 104.916 -31.823  1.00 63.66      A16S
ATOM  12355  C5  C   A 596     119.895 102.668 -31.673  1.00 63.66      A16S
ATOM  12356  C2* C   A 596     122.302  99.649 -29.286  1.00 38.26      A16S
ATOM  12357  O2* C   A 596     123.295  98.668 -29.119  1.00 38.26      A16S
ATOM  12358  C3* C   A 596     121.005  99.370 -28.547  1.00 38.26      A16S
ATOM  12359  O3* C   A 596     121.178  98.809 -27.263  1.00 38.26      A16S
ATOM  12360  P   G   A 597     121.280  99.786 -25.997  1.00 40.60      A16S
ATOM  12361  O1P G   A 597     121.318  98.986 -24.734  1.00 42.38      A16S
ATOM  12362  O2P G   A 597     120.235 100.839 -26.171  1.00 42.38      A16S
ATOM  12363  O5* G   A 597     122.713 100.456 -26.171  1.00 40.60      A16S
ATOM  12364  C5* G   A 597     123.893  99.644 -26.275  1.00 40.60      A16S
ATOM  12365  C4* G   A 597     125.096 100.521 -26.420  1.00 40.60      A16S
ATOM  12366  O4* G   A 597     124.942 101.313 -27.617  1.00 40.60      A16S
ATOM  12367  C1* G   A 597     125.404 102.628 -27.381  1.00 40.60      A16S
ATOM  12368  N9  G   A 597     124.297 103.552 -27.608  1.00 42.38      A16S
ATOM  12369  C4  G   A 597     124.355 104.923 -27.525  1.00 42.38      A16S
ATOM  12370  N3  G   A 597     125.458 105.653 -27.275  1.00 42.38      A16S
ATOM  12371  C2  G   A 597     125.187 106.935 -27.191  1.00 42.38      A16S
ATOM  12372  N2  G   A 597     126.163 107.805 -26.919  1.00 42.38      A16S
ATOM  12373  N1  G   A 597     123.939 107.467 -27.355  1.00 42.38      A16S
ATOM  12374  C6  G   A 597     122.788 106.742 -27.616  1.00 42.38      A16S
ATOM  12375  O6  G   A 597     121.705 107.328 -27.726  1.00 42.38      A16S
ATOM  12376  C5  G   A 597     123.063 105.353 -27.709  1.00 42.38      A16S
ATOM  12377  N7  G   A 597     122.216 104.279 -27.957  1.00 42.38      A16S
ATOM  12378  C8  G   A 597     122.994 103.234 -27.899  1.00 42.38      A16S
ATOM  12379  C2* G   A 597     125.938 102.686 -25.947  1.00 40.60      A16S
ATOM  12380  O2* G   A 597     127.326 102.483 -25.940  1.00 40.60      A16S
ATOM  12381  C3* G   A 597     125.227 101.521 -25.298  1.00 40.60      A16S
ATOM  12382  O3* G   A 597     126.043 100.972 -24.309  1.00 40.60      A16S
ATOM  12383  P   U   A 598     125.753 101.307 -22.779  1.00 43.09      A16S
ATOM  12384  O1P U   A 598     124.493 100.600 -22.431  1.00 38.89      A16S
ATOM  12385  O2P U   A 598     126.990 101.044 -21.997  1.00 38.89      A16S
ATOM  12386  O5* U   A 598     125.500 102.880 -22.764  1.00 43.09      A16S
ATOM  12387  C5* U   A 598     126.599 103.799 -22.810  1.00 43.09      A16S
ATOM  12388  C4* U   A 598     126.094 105.215 -22.820  1.00 43.09      A16S
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ATOM  12389  O4*  U   A 598     125.391 105.479 -24.054  1.00 43.09      A16S
ATOM  12390  C1*  U   A 598     124.315 106.365 -23.817  1.00 43.09      A16S
ATOM  12391  N1   U   A 598     123.062 105.694 -24.199  1.00 38.89      A16S
ATOM  12392  C6   U   A 598     123.024 104.354 -24.477  1.00 38.89      A16S
ATOM  12393  C2   U   A 598     121.920 106.454 -24.253  1.00 38.89      A16S
ATOM  12394  O2   U   A 598     121.921 107.651 -24.043  1.00 38.89      A16S
ATOM  12395  N3   U   A 598     120.776 105.761 -24.563  1.00 38.89      A16S
ATOM  12396  C4   U   A 598     120.668 104.414 -24.830  1.00 38.89      A16S
ATOM  12397  O4   U   A 598     119.559 103.910 -25.013  1.00 38.89      A16S
ATOM  12398  C5   U   A 598     121.897 103.708 -24.785  1.00 38.89      A16S
ATOM  12399  C2*  U   A 598     124.348 106.729 -22.338  1.00 43.09      A16S
ATOM  12400  O2*  U   A 598     125.077 107.922 -22.182  1.00 43.09      A16S
ATOM  12401  C3*  U   A 598     125.084 105.543 -21.750  1.00 43.09      A16S
ATOM  12402  O3*  U   A 598     125.718 105.872 -20.542  1.00 43.09      A16S
ATOM  12403  P    C   A 599     125.003 105.486 -19.168  1.00 41.72      A16S
ATOM  12404  O1P  C   A 599     124.367 104.165 -19.447  1.00 39.29      A16S
ATOM  12405  O2P  C   A 599     125.931 105.645 -18.015  1.00 39.29      A16S
ATOM  12406  O5*  C   A 599     123.848 106.567 -19.049  1.00 41.72      A16S
ATOM  12407  C5*  C   A 599     124.155 107.955 -18.942  1.00 41.72      A16S
ATOM  12408  C4*  C   A 599     122.883 108.757 -18.886  1.00 41.72      A16S
ATOM  12409  O4*  C   A 599     122.224 108.728 -20.174  1.00 41.72      A16S
ATOM  12410  C1*  C   A 599     120.824 108.739 -19.986  1.00 41.72      A16S
ATOM  12411  N1   C   A 599     120.269 107.520 -20.581  1.00 39.29      A16S
ATOM  12412  C6   C   A 599     121.020 106.386 -20.691  1.00 39.29      A16S
ATOM  12413  C2   C   A 599     118.960 107.538 -21.038  1.00 39.29      A16S
ATOM  12414  O2   C   A 599     118.301 108.581 -20.915  1.00 39.29      A16S
ATOM  12415  N3   C   A 599     118.441 106.425 -21.604  1.00 39.29      A16S
ATOM  12416  C4   C   A 599     119.186 105.330 -21.717  1.00 39.29      A16S
ATOM  12417  N4   C   A 599     118.649 104.266 -22.293  1.00 39.29      A16S
ATOM  12418  C5   C   A 599     120.520 105.280 -21.248  1.00 39.29      A16S
ATOM  12419  C2*  C   A 599     120.552 108.829 -18.487  1.00 41.72      A16S
ATOM  12420  O2*  C   A 599     120.405 110.191 -18.136  1.00 41.72      A16S
ATOM  12421  C3*  C   A 599     121.832 108.250 -17.916  1.00 41.72      A16S
ATOM  12422  O3*  C   A 599     122.075 108.682 -16.593  1.00 41.72      A16S
ATOM  12423  P    C   A 600     121.535 107.792 -15.375  1.00 44.24      A16S
ATOM  12424  O1P  C   A 600     121.725 106.374 -15.765  1.00 49.62      A16S
ATOM  12425  O2P  C   A 600     122.094 108.283 -14.082  1.00 49.62      A16S
ATOM  12426  O5*  C   A 600     119.971 108.064 -15.413  1.00 44.24      A16S
ATOM  12427  C5*  C   A 600     119.464 109.400 -15.272  1.00 44.24      A16S
ATOM  12428  C4*  C   A 600     117.979 109.418 -15.517  1.00 44.24      A16S
ATOM  12429  O4*  C   A 600     117.709 108.945 -16.852  1.00 44.24      A16S
ATOM  12430  C1*  C   A 600     116.395 108.459 -16.898  1.00 44.24      A16S
ATOM  12431  N1   C   A 600     116.332 107.252 -17.724  1.00 49.62      A16S
ATOM  12432  C6   C   A 600     117.418 106.454 -17.927  1.00 49.62      A16S
ATOM  12433  C2   C   A 600     115.113 106.933 -18.297  1.00 49.62      A16S
ATOM  12434  O2   C   A 600     114.156 107.688 -18.104  1.00 49.62      A16S
ATOM  12435  N3   C   A 600     114.997 105.822 -19.042  1.00 49.62      A16S
ATOM  12436  C4   C   A 600     116.050 105.041 -19.228  1.00 49.62      A16S
ATOM  12437  N4   C   A 600     115.882 103.949 -19.962  1.00 49.62      A16S
ATOM  12438  C5   C   A 600     117.321 105.345 -18.667  1.00 49.62      A16S
ATOM  12439  C2*  C   A 600     115.897 108.269 -15.468  1.00 44.24      A16S
ATOM  12440  O2*  C   A 600     114.908 109.240 -15.242  1.00 44.24      A16S
ATOM  12441  C3*  C   A 600     117.165 108.482 -14.650  1.00 44.24      A16S
ATOM  12442  O3*  C   A 600     116.897 109.106 -13.406  1.00 44.24      A16S
ATOM  12443  P    C   A 601     116.729 108.212 -12.084  1.00 40.88      A16S
ATOM  12444  O1P  C   A 601     116.858 109.159 -10.945  1.00 50.60      A16S
ATOM  12445  O2P  C   A 601     117.628 107.026 -12.152  1.00 50.60      A16S
ATOM  12446  O5*  C   A 601     115.226 107.696 -12.185  1.00 40.88      A16S
ATOM  12447  C5*  C   A 601     114.145 108.622 -12.047  1.00 40.88      A16S
ATOM  12448  C4*  C   A 601     112.823 107.953 -12.311  1.00 40.88      A16S
ATOM  12449  O4*  C   A 601     112.691 107.626 -13.714  1.00 40.88      A16S
ATOM  12450  C1*  C   A 601     111.873 106.481 -13.852  1.00 40.88      A16S
ATOM  12451  N1   C   A 601     112.594 105.484 -14.647  1.00 50.60      A16S
ATOM  12452  C6   C   A 601     113.955 105.501 -14.740  1.00 50.60      A16S
ATOM  12453  C2   C   A 601     111.859 104.514 -15.310  1.00 50.60      A16S
ATOM  12454  O2   C   A 601     110.629 104.522 -15.196  1.00 50.60      A16S
ATOM  12455  N3   C   A 601     112.500 103.590 -16.056  1.00 50.60      A16S
ATOM  12456  C4   C   A 601     113.830 103.614 -16.143  1.00 50.60      A16S
ATOM  12457  N4   C   A 601     114.427 102.683 -16.884  1.00 50.60      A16S
ATOM  12458  C5   C   A 601     114.607 104.594 -15.470  1.00 50.60      A16S
ATOM  12459  C2*  C   A 601     111.490 105.992 -12.452  1.00 40.88      A16S
ATOM  12460  O2*  C   A 601     110.179 106.428 -12.145  1.00 40.88      A16S
ATOM  12461  C3*  C   A 601     112.562 106.649 -11.587  1.00 40.88      A16S
ATOM  12462  O3*  C   A 601     112.140 106.871 -10.249  1.00 40.88      A16S
ATOM  12463  P    A   A 602     112.425 105.744  -9.143  1.00 47.36      A16S
ATOM  12464  O1P  A   A 602     112.041 106.307  -7.825  1.00 69.48      A16S
ATOM  12465  O2P  A   A 602     113.798 105.227  -9.332  1.00 69.48      A16S
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ATOM  12466  O5* A   A 602     111.415 104.586  -9.566  1.00 47.36      A16S
ATOM  12467  C5* A   A 602     110.010 104.868  -9.671  1.00 47.36      A16S
ATOM  12468  C4* A   A 602     109.265 103.703 -10.269  1.00 47.36      A16S
ATOM  12469  O4* A   A 602     109.585 103.575 -11.672  1.00 47.36      A16S
ATOM  12470  C1* A   A 602     109.516 102.214 -12.054  1.00 47.36      A16S
ATOM  12471  N9  A   A 602     110.812 101.838 -12.617  1.00 69.48      A16S
ATOM  12472  C4  A   A 602     111.084 100.744 -13.399  1.00 69.48      A16S
ATOM  12473  N3  A   A 602     110.224  99.804 -13.817  1.00 69.48      A16S
ATOM  12474  C2  A   A 602     110.852  98.888 -14.550  1.00 69.48      A16S
ATOM  12475  N1  A   A 602     112.138  98.812 -14.884  1.00 69.48      A16S
ATOM  12476  C6  A   A 602     112.973  99.772 -14.443  1.00 69.48      A16S
ATOM  12477  N6  A   A 602     114.262  99.696 -14.764  1.00 69.48      A16S
ATOM  12478  C5  A   A 602     112.436 100.798 -13.665  1.00 69.48      A16S
ATOM  12479  N7  A   A 602     113.010 101.911 -13.071  1.00 69.48      A16S
ATOM  12480  C8  A   A 602     112.007 102.494 -12.466  1.00 69.48      A16S
ATOM  12481  C2* A   A 602     109.127 101.401 -10.815  1.00 47.36      A16S
ATOM  12482  O2* A   A 602     107.737 101.145 -10.839  1.00 47.36      A16S
ATOM  12483  C3* A   A 602     109.540 102.335  -9.680  1.00 47.36      A16S
ATOM  12484  O3* A   A 602     108.797 102.122  -8.483  1.00 47.36      A16S
ATOM  12485  P   U   A 603     109.354 101.099  -7.379  1.00 37.40      A16S
ATOM  12486  O1P U   A 603     108.353 101.030  -6.285  1.00 66.56      A16S
ATOM  12487  O2P U   A 603     110.754 101.478  -7.062  1.00 66.56      A16S
ATOM  12488  O5* U   A 603     109.341  99.698  -8.146  1.00 37.40      A16S
ATOM  12489  C5* U   A 603     108.092  99.104  -8.553  1.00 37.40      A16S
ATOM  12490  C4* U   A 603     108.322  97.819  -9.321  1.00 37.40      A16S
ATOM  12491  O4* U   A 603     108.874  98.108 -10.632  1.00 37.40      A16S
ATOM  12492  C1* U   A 603     109.739  97.054 -11.032  1.00 37.40      A16S
ATOM  12493  N1  U   A 603     111.107  97.578 -11.181  1.00 66.56      A16S
ATOM  12494  C6  U   A 603     111.553  98.673 -10.479  1.00 66.56      A16S
ATOM  12495  C2  U   A 603     111.947  96.901 -12.035  1.00 66.56      A16S
ATOM  12496  O2  U   A 603     111.582  95.946 -12.694  1.00 66.56      A16S
ATOM  12497  N3  U   A 603     113.231  97.377 -12.089  1.00 66.56      A16S
ATOM  12498  C4  U   A 603     113.748  98.440 -11.394  1.00 66.56      A16S
ATOM  12499  O4  U   A 603     114.955  98.682 -11.470  1.00 66.56      A16S
ATOM  12500  C5  U   A 603     112.810  99.113 -10.554  1.00 66.56      A16S
ATOM  12501  C2* U   A 603     109.716  95.995  -9.934  1.00 37.40      A16S
ATOM  12502  O2* U   A 603     108.803  94.985 -10.273  1.00 37.40      A16S
ATOM  12503  C3* U   A 603     109.296  96.817  -8.722  1.00 37.40      A16S
ATOM  12504  O3* U   A 603     108.742  96.009  -7.696  1.00 37.40      A16S
ATOM  12505  P   G   A 604     109.729  95.289  -6.649  1.00 51.22      A16S
ATOM  12506  O1P G   A 604     108.896  94.620  -5.619  1.00 58.32      A16S
ATOM  12507  O2P G   A 604     110.786  96.250  -6.226  1.00 58.32      A16S
ATOM  12508  O5* G   A 604     110.398  94.153  -7.531  1.00 51.22      A16S
ATOM  12509  C5* G   A 604     109.592  93.107  -8.066  1.00 51.22      A16S
ATOM  12510  C4* G   A 604     110.453  92.055  -8.699  1.00 51.22      A16S
ATOM  12511  O4* G   A 604     111.019  92.553  -9.936  1.00 51.22      A16S
ATOM  12512  C1* G   A 604     112.290  91.960 -10.140  1.00 51.22      A16S
ATOM  12513  N9  G   A 604     113.308  93.007 -10.224  1.00 58.32      A16S
ATOM  12514  C4  G   A 604     114.561  92.868 -10.772  1.00 58.32      A16S
ATOM  12515  N3  G   A 604     115.056  91.749 -11.331  1.00 58.32      A16S
ATOM  12516  C2  G   A 604     116.284  91.917 -11.765  1.00 58.32      A16S
ATOM  12517  N2  G   A 604     116.915  90.904 -12.348  1.00 58.32      A16S
ATOM  12518  N1  G   A 604     116.983  93.088 -11.660  1.00 58.32      A16S
ATOM  12519  C6  G   A 604     116.500  94.258 -11.092  1.00 58.32      A16S
ATOM  12520  O6  G   A 604     117.216  95.268 -11.055  1.00 58.32      A16S
ATOM  12521  C5  G   A 604     115.168  94.091 -10.617  1.00 58.32      A16S
ATOM  12522  N7  G   A 604     114.314  94.988  -9.988  1.00 58.32      A16S
ATOM  12523  C8  G   A 604     113.225  94.301  -9.775  1.00 58.32      A16S
ATOM  12524  C2* G   A 604     112.548  91.016  -8.967  1.00 51.22      A16S
ATOM  12525  O2* G   A 604     112.106  89.722  -9.311  1.00 51.22      A16S
ATOM  12526  C3* G   A 604     111.654  91.607  -7.895  1.00 51.22      A16S
ATOM  12527  O3* G   A 604     111.341  90.644  -6.918  1.00 51.22      A16S
ATOM  12528  P   U   A 605     112.370  90.400  -5.712  1.00 42.95      A16S
ATOM  12529  O1P U   A 605     111.852  89.218  -4.983  1.00 42.74      A16S
ATOM  12530  O2P U   A 605     112.623  91.672  -4.973  1.00 42.74      A16S
ATOM  12531  O5* U   A 605     113.733  90.003  -6.441  1.00 42.95      A16S
ATOM  12532  C5* U   A 605     113.899  88.705  -7.052  1.00 42.95      A16S
ATOM  12533  C4* U   A 605     115.309  88.537  -7.577  1.00 42.95      A16S
ATOM  12534  O4* U   A 605     115.547  89.495  -8.636  1.00 42.95      A16S
ATOM  12535  C1* U   A 605     116.904  89.893  -8.613  1.00 42.95      A16S
ATOM  12536  N1  U   A 605     116.971  91.345  -8.403  1.00 42.74      A16S
ATOM  12537  C6  U   A 605     115.967  92.034  -7.798  1.00 42.74      A16S
ATOM  12538  C2  U   A 605     118.098  91.983  -8.823  1.00 42.74      A16S
ATOM  12539  O2  U   A 605     118.995  91.407  -9.389  1.00 42.74      A16S
ATOM  12540  N3  U   A 605     118.146  93.323  -8.561  1.00 42.74      A16S
ATOM  12541  C4  U   A 605     117.191  94.069  -7.946  1.00 42.74      A16S
ATOM  12542  O4  U   A 605     117.374  95.272  -7.785  1.00 42.74      A16S
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ATOM  12543  C5  U   A 605     116.036  93.341  -7.559  1.00 42.74      A16S
ATOM  12544  C2* U   A 605     117.607  89.136  -7.484  1.00 42.95      A16S
ATOM  12545  O2* U   A 605     118.277  87.997  -7.983  1.00 42.95      A16S
ATOM  12546  C3* U   A 605     116.439  88.771  -6.585  1.00 42.95      A16S
ATOM  12547  O3* U   A 605     116.744  87.613  -5.826  1.00 42.95      A16S
ATOM  12548  P   G   A 606     117.310  87.772  -4.334  1.00 40.30      A16S
ATOM  12549  O1P G   A 606     117.513  86.394  -3.831  1.00100.83      A16S
ATOM  12550  O2P G   A 606     116.444  88.709  -3.581  1.00100.83      A16S
ATOM  12551  O5* G   A 606     118.730  88.461  -4.523  1.00 40.30      A16S
ATOM  12552  C5* G   A 606     119.773  87.779  -5.238  1.00 40.30      A16S
ATOM  12553  C4* G   A 606     120.965  88.680  -5.424  1.00 40.30      A16S
ATOM  12554  O4* G   A 606     120.618  89.770  -6.310  1.00 40.30      A16S
ATOM  12555  C1* G   A 606     121.245  90.956  -5.869  1.00 40.30      A16S
ATOM  12556  N9  G   A 606     120.200  91.923  -5.541  1.00100.83      A16S
ATOM  12557  C4  G   A 606     120.325  93.293  -5.492  1.00100.83      A16S
ATOM  12558  N3  G   A 606     121.446  93.999  -5.742  1.00100.83      A16S
ATOM  12559  C2  G   A 606     121.246  95.302  -5.623  1.00100.83      A16S
ATOM  12560  N2  G   A 606     122.253  96.158  -5.848  1.00100.83      A16S
ATOM  12561  N1  G   A 606     120.046  95.865  -5.278  1.00100.83      A16S
ATOM  12562  C6  G   A 606     118.880  95.158  -5.013  1.00100.83      A16S
ATOM  12563  O6  G   A 606     117.845  95.766  -4.709  1.00100.83      A16S
ATOM  12564  C5  G   A 606     119.076  93.760  -5.145  1.00100.83      A16S
ATOM  12565  N7  G   A 606     118.184  92.711  -4.982  1.00100.83      A16S
ATOM  12566  C8  G   A 606     118.892  91.643  -5.225  1.00100.83      A16S
ATOM  12567  C2* G   A 606     122.153  90.590  -4.691  1.00 40.30      A16S
ATOM  12568  O2* G   A 606     123.444  90.317  -5.207  1.00 40.30      A16S
ATOM  12569  C3* G   A 606     121.481  89.331  -4.156  1.00 40.30      A16S
ATOM  12570  O3* G   A 606     122.404  88.458  -3.519  1.00 40.30      A16S
ATOM  12571  P   A   A 607     122.634  88.547  -1.928  1.00 52.53      A16S
ATOM  12572  O1P A   A 607     122.118  89.845  -1.412  1.00 79.04      A16S
ATOM  12573  O2P A   A 607     124.046  88.165  -1.658  1.00 79.04      A16S
ATOM  12574  O5* A   A 607     121.701  87.394  -1.346  1.00 52.53      A16S
ATOM  12575  C5* A   A 607     120.260  87.498  -1.394  1.00 52.53      A16S
ATOM  12576  C4* A   A 607     119.631  86.493  -0.453  1.00 52.53      A16S
ATOM  12577  O4* A   A 607     119.920  85.149  -0.909  1.00 52.53      A16S
ATOM  12578  C1* A   A 607     120.104  84.297   0.205  1.00 52.53      A16S
ATOM  12579  N9  A   A 607     121.439  83.702   0.109  1.00 79.04      A16S
ATOM  12580  C4  A   A 607     121.982  82.784   0.975  1.00 79.04      A16S
ATOM  12581  N3  A   A 607     121.403  82.251   2.062  1.00 79.04      A16S
ATOM  12582  C2  A   A 607     122.235  81.412   2.666  1.00 79.04      A16S
ATOM  12583  N1  A   A 607     123.486  81.075   2.336  1.00 79.04      A16S
ATOM  12584  C6  A   A 607     124.038  81.630   1.241  1.00 79.04      A16S
ATOM  12585  N6  A   A 607     125.287  81.297   0.921  1.00 79.04      A16S
ATOM  12586  C5  A   A 607     123.259  82.531   0.507  1.00 79.04      A16S
ATOM  12587  N7  A   A 607     123.516  83.264  -0.643  1.00 79.04      A16S
ATOM  12588  C8  A   A 607     122.408  83.939  -0.840  1.00 79.04      A16S
ATOM  12589  C2* A   A 607     119.893  85.129   1.474  1.00 52.53      A16S
ATOM  12590  O2* A   A 607     118.569  85.021   1.936  1.00 52.53      A16S
ATOM  12591  C3* A   A 607     120.143  86.534   0.973  1.00 52.53      A16S
ATOM  12592  O3* A   A 607     119.396  87.439   1.741  1.00 52.53      A16S
ATOM  12593  P   A   A 608     120.152  88.381   2.781  1.00 38.37      A16S
ATOM  12594  O1P A   A 608     119.160  89.308   3.352  1.00 42.03      A16S
ATOM  12595  O2P A   A 608     121.362  88.924   2.088  1.00 42.03      A16S
ATOM  12596  O5* A   A 608     120.605  87.393   3.943  1.00 38.37      A16S
ATOM  12597  C5* A   A 608     119.648  86.552   4.606  1.00 38.37      A16S
ATOM  12598  C4* A   A 608     120.348  85.473   5.404  1.00 38.37      A16S
ATOM  12599  O4* A   A 608     120.916  84.463   4.530  1.00 38.37      A16S
ATOM  12600  C1* A   A 608     122.106  83.954   5.108  1.00 38.37      A16S
ATOM  12601  N9  A   A 608     123.228  84.221   4.208  1.00 42.03      A16S
ATOM  12602  C4  A   A 608     124.490  83.691   4.321  1.00 42.03      A16S
ATOM  12603  N3  A   A 608     124.931  82.839   5.252  1.00 42.03      A16S
ATOM  12604  C2  A   A 608     126.207  82.558   5.054  1.00 42.03      A16S
ATOM  12605  N1  A   A 608     127.032  82.996   4.109  1.00 42.03      A16S
ATOM  12606  C6  A   A 608     126.562  83.852   3.195  1.00 42.03      A16S
ATOM  12607  N6  A   A 608     127.395  84.298   2.260  1.00 42.03      A16S
ATOM  12608  C5  A   A 608     125.222  84.229   3.287  1.00 42.03      A16S
ATOM  12609  N7  A   A 608     124.441  85.086   2.526  1.00 42.03      A16S
ATOM  12610  C8  A   A 608     123.269  85.043   3.110  1.00 42.03      A16S
ATOM  12611  C2* A   A 608     122.311  84.658   6.448  1.00 38.37      A16S
ATOM  12612  O2* A   A 608     121.803  83.860   7.495  1.00 38.37      A16S
ATOM  12613  C3* A   A 608     121.513  85.935   6.253  1.00 38.37      A16S
ATOM  12614  O3* A   A 608     121.108  86.473   7.488  1.00 38.37      A16S
ATOM  12615  P   A   A 609     121.959  87.666   8.131  1.00 32.53      A16S
ATOM  12616  O1P A   A 609     121.485  87.879   9.521  1.00 65.81      A16S
ATOM  12617  O2P A   A 609     121.936  88.797   7.164  1.00 65.81      A16S
ATOM  12618  O5* A   A 609     123.440  87.090   8.212  1.00 32.53      A16S
ATOM  12619  C5* A   A 609     123.778  86.115   9.196  1.00 32.53      A16S
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ATOM  12620  C4* A   A 609     125.195  85.653   9.008  1.00 32.53      A16S
ATOM  12621  O4* A   A 609     125.337  85.090   7.685  1.00 32.53      A16S
ATOM  12622  C1* A   A 609     126.639  85.357   7.193  1.00 32.53      A16S
ATOM  12623  N9  A   A 609     126.520  86.163   5.981  1.00 65.81      A16S
ATOM  12624  C4  A   A 609     127.537  86.453   5.112  1.00 65.81      A16S
ATOM  12625  N3  A   A 609     128.813  86.062   5.203  1.00 65.81      A16S
ATOM  12626  C2  A   A 609     129.508  86.515   4.175  1.00 65.81      A16S
ATOM  12627  N1  A   A 609     129.105  87.262   3.145  1.00 65.81      A16S
ATOM  12628  C6  A   A 609     127.812  87.643   3.091  1.00 65.81      A16S
ATOM  12629  N6  A   A 609     127.399  88.400   2.065  1.00 65.81      A16S
ATOM  12630  C5  A   A 609     126.974  87.224   4.119  1.00 65.81      A16S
ATOM  12631  N7  A   A 609     125.624  87.427   4.357  1.00 65.81      A16S
ATOM  12632  C8  A   A 609     125.405  86.781   5.473  1.00 65.81      A16S
ATOM  12633  C2* A   A 609     127.402  86.102   8.282  1.00 32.53      A16S
ATOM  12634  O2* A   A 609     128.149  85.167   9.028  1.00 32.53      A16S
ATOM  12635  C3* A   A 609     126.262  86.725   9.070  1.00 32.53      A16S
ATOM  12636  O3* A   A 609     126.637  87.025  10.397  1.00 32.53      A16S
ATOM  12637  P   G   A 610     126.934  88.549  10.798  1.00 43.94      A16S
ATOM  12638  O1P G   A 610     127.385  88.579  12.217  1.00 62.62      A16S
ATOM  12639  O2P G   A 610     125.760  89.355  10.378  1.00 62.62      A16S
ATOM  12640  O5* G   A 610     128.165  88.960   9.875  1.00 43.94      A16S
ATOM  12641  C5* G   A 610     129.459  88.368  10.073  1.00 43.94      A16S
ATOM  12642  C4* G   A 610     130.410  88.780   8.973  1.00 43.94      A16S
ATOM  12643  O4* G   A 610     129.865  88.390   7.693  1.00 43.94      A16S
ATOM  12644  C1* G   A 610     130.254  89.326   6.707  1.00 43.94      A16S
ATOM  12645  N9  G   A 610     129.054  89.918   6.141  1.00 62.62      A16S
ATOM  12646  C4  G   A 610     129.013  90.777   5.089  1.00 62.62      A16S
ATOM  12647  N3  G   A 610     130.074  91.205   4.391  1.00 62.62      A16S
ATOM  12648  C2  G   A 610     129.723  92.021   3.427  1.00 62.62      A16S
ATOM  12649  N2  G   A 610     130.654  92.537   2.624  1.00 62.62      A16S
ATOM  12650  N1  G   A 610     128.431  92.392   3.173  1.00 62.62      A16S
ATOM  12651  C6  G   A 610     127.323  91.955   3.881  1.00 62.62      A16S
ATOM  12652  O6  G   A 610     126.196  92.339   3.561  1.00 62.62      A16S
ATOM  12653  C5  G   A 610     127.688  91.082   4.915  1.00 62.62      A16S
ATOM  12654  N7  G   A 610     126.905  90.421   5.845  1.00 62.62      A16S
ATOM  12655  C8  G   A 610     127.760  89.739   6.550  1.00 62.62      A16S
ATOM  12656  C2* G   A 610     131.131  90.375   7.378  1.00 43.94      A16S
ATOM  12657  O2* G   A 610     132.477  89.991   7.231  1.00 43.94      A16S
ATOM  12658  C3* G   A 610     130.674  90.266   8.818  1.00 43.94      A16S
ATOM  12659  O3* G   A 610     131.670  90.710   9.706  1.00 43.94      A16S
ATOM  12660  P   A   A 611     131.485  92.121  10.426  1.00 50.27      A16S
ATOM  12661  O1P A   A 611     132.707  92.323  11.234  1.00 47.47      A16S
ATOM  12662  O2P A   A 611     130.157  92.133  11.091  1.00 47.47      A16S
ATOM  12663  O5* A   A 611     131.463  93.152   9.214  1.00 50.27      A16S
ATOM  12664  C5* A   A 611     132.644  93.370   8.424  1.00 50.27      A16S
ATOM  12665  C4* A   A 611     132.371  94.382   7.337  1.00 50.27      A16S
ATOM  12666  O4* A   A 611     131.448  93.831   6.370  1.00 50.27      A16S
ATOM  12667  C1* A   A 611     130.592  94.847   5.887  1.00 50.27      A16S
ATOM  12668  N9  A   A 611     129.229  94.480   6.239  1.00 47.47      A16S
ATOM  12669  C4  A   A 611     128.098  94.927   5.619  1.00 47.47      A16S
ATOM  12670  N3  A   A 611     128.026  95.763   4.579  1.00 47.47      A16S
ATOM  12671  C2  A   A 611     126.764  95.971   4.239  1.00 47.47      A16S
ATOM  12672  N1  A   A 611     125.654  95.477   4.780  1.00 47.47      A16S
ATOM  12673  C6  A   A 611     125.768  94.637   5.829  1.00 47.47      A16S
ATOM  12674  N6  A   A 611     124.659  94.131   6.374  1.00 47.47      A16S
ATOM  12675  C5  A   A 611     127.048  94.339   6.284  1.00 47.47      A16S
ATOM  12676  N7  A   A 611     127.505  93.532   7.312  1.00 47.47      A16S
ATOM  12677  C8  A   A 611     128.805  93.647   7.242  1.00 47.47      A16S
ATOM  12678  C2* A   A 611     131.004  96.161   6.545  1.00 50.27      A16S
ATOM  12679  O2* A   A 611     131.839  96.890   5.677  1.00 50.27      A16S
ATOM  12680  C3* A   A 611     131.712  95.665   7.797  1.00 50.27      A16S
ATOM  12681  O3* A   A 611     132.661  96.580   8.299  1.00 50.27      A16S
ATOM  12682  P   C   A 612     132.367  97.319   9.685  1.00 40.82      A16S
ATOM  12683  O1P C   A 612     133.621  97.990  10.105  1.00 61.38      A16S
ATOM  12684  O2P C   A 612     131.715  96.346  10.600  1.00 61.38      A16S
ATOM  12685  O5* C   A 612     131.287  98.416   9.290  1.00 40.82      A16S
ATOM  12686  C5* C   A 612     131.611  99.462   8.369  1.00 40.82      A16S
ATOM  12687  C4* C   A 612     130.388 100.294   8.085  1.00 40.82      A16S
ATOM  12688  O4* C   A 612     129.437  99.543   7.288  1.00 40.82      A16S
ATOM  12689  C1* C   A 612     128.121  99.935   7.630  1.00 40.82      A16S
ATOM  12690  N1  C   A 612     127.353  98.742   8.017  1.00 61.38      A16S
ATOM  12691  C6  C   A 612     127.954  97.705   8.672  1.00 61.38      A16S
ATOM  12692  C2  C   A 612     125.991  98.682   7.700  1.00 61.38      A16S
ATOM  12693  O2  C   A 612     125.462  99.644   7.122  1.00 61.38      A16S
ATOM  12694  N3  C   A 612     125.286  97.582   8.035  1.00 61.38      A16S
ATOM  12695  C4  C   A 612     125.887  96.573   8.667  1.00 61.38      A16S
ATOM  12696  N4  C   A 612     125.159  95.501   8.974  1.00 61.38      A16S
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ATOM  12697  C5  C   A 612     127.265  96.614   9.013  1.00 61.38      A16S
ATOM  12698  C2* C   A 612     128.212 100.988   8.735  1.00 40.82      A16S
ATOM  12699  O2* C   A 612     128.082 102.264   8.146  1.00 40.82      A16S
ATOM  12700  C3* C   A 612     129.601 100.726   9.305  1.00 40.82      A16S
ATOM  12701  O3* C   A 612     130.178 101.874   9.891  1.00 40.82      A16S
ATOM  12702  P   C   A 613     130.103 102.068  11.481  1.00 52.45      A16S
ATOM  12703  O1P C   A 613     130.942 103.244  11.822  1.00 72.05      A16S
ATOM  12704  O2P C   A 613     130.363 100.767  12.157  1.00 72.05      A16S
ATOM  12705  O5* C   A 613     128.584 102.479  11.706  1.00 52.45      A16S
ATOM  12706  C5* C   A 613     128.105 103.761  11.265  1.00 52.45      A16S
ATOM  12707  C4* C   A 613     126.630 103.898  11.546  1.00 52.45      A16S
ATOM  12708  O4* C   A 613     125.866 103.011  10.688  1.00 52.45      A16S
ATOM  12709  C1* C   A 613     124.703 102.571  11.374  1.00 52.45      A16S
ATOM  12710  N1  C   A 613     124.702 101.097  11.440  1.00 72.05      A16S
ATOM  12711  C6  C   A 613     125.869 100.387  11.402  1.00 72.05      A16S
ATOM  12712  C2  C   A 613     123.473 100.429  11.547  1.00 72.05      A16S
ATOM  12713  O2  C   A 613     122.431 101.092  11.595  1.00 72.05      A16S
ATOM  12714  N3  C   A 613     123.456  99.079  11.603  1.00 72.05      A16S
ATOM  12715  C4  C   A 613     124.602  98.398  11.566  1.00 72.05      A16S
ATOM  12716  N4  C   A 613     124.541  97.068  11.630  1.00 72.05      A16S
ATOM  12717  C5  C   A 613     125.865  99.051  11.464  1.00 72.05      A16S
ATOM  12718  C2* C   A 613     124.714 103.210  12.762  1.00 52.45      A16S
ATOM  12719  O2* C   A 613     123.928 104.379  12.747  1.00 52.45      A16S
ATOM  12720  C3* C   A 613     126.188 103.525  12.947  1.00 52.45      A16S
ATOM  12721  O3* C   A 613     126.381 104.564  13.876  1.00 52.45      A16S
ATOM  12722  P   A   A 614     126.448 104.208  15.434  1.00 67.15      A16S
ATOM  12723  O1P A   A 614     126.883 105.437  16.150  1.00 56.50      A16S
ATOM  12724  O2P A   A 614     127.239 102.954  15.590  1.00 56.50      A16S
ATOM  12725  O5* A   A 614     124.931 103.874  15.793  1.00 67.15      A16S
ATOM  12726  C5* A   A 614     123.891 104.841  15.553  1.00 67.15      A16S
ATOM  12727  C4* A   A 614     122.535 104.265  15.896  1.00 67.15      A16S
ATOM  12728  O4* A   A 614     122.141 103.267  14.919  1.00 67.15      A16S
ATOM  12729  C1* A   A 614     121.439 102.219  15.564  1.00 67.15      A16S
ATOM  12730  N9  A   A 614     122.242 101.001  15.447  1.00 56.50      A16S
ATOM  12731  C4  A   A 614     121.794  99.702  15.502  1.00 56.50      A16S
ATOM  12732  N3  A   A 614     120.528  99.275  15.646  1.00 56.50      A16S
ATOM  12733  C2  A   A 614     120.481  97.947  15.666  1.00 56.50      A16S
ATOM  12734  N1  A   A 614     121.476  97.065  15.573  1.00 56.50      A16S
ATOM  12735  C6  A   A 614     122.735  97.532  15.436  1.00 56.50      A16S
ATOM  12736  N6  A   A 614     123.740  96.663  15.359  1.00 56.50      A16S
ATOM  12737  C5  A   A 614     122.919  98.914  15.389  1.00 56.50      A16S
ATOM  12738  N7  A   A 614     124.056  99.694  15.249  1.00 56.50      A16S
ATOM  12739  C8  A   A 614     123.602 100.919  15.288  1.00 56.50      A16S
ATOM  12740  C2* A   A 614     121.273 102.615  17.031  1.00 67.15      A16S
ATOM  12741  O2* A   A 614     120.040 103.274  17.221  1.00 67.15      A16S
ATOM  12742  C3* A   A 614     122.454 103.548  17.228  1.00 67.15      A16S
ATOM  12743  O3* A   A 614     122.267 104.437  18.311  1.00 67.15      A16S
ATOM  12744  P   C   A 615     122.957 104.101  19.719  1.00 64.94      A16S
ATOM  12745  O1P C   A 615     122.967 105.350  20.534  1.00 62.09      A16S
ATOM  12746  O2P C   A 615     124.246 103.410  19.433  1.00 62.09      A16S
ATOM  12747  O5* C   A 615     121.953 103.050  20.374  1.00 64.94      A16S
ATOM  12748  C5* C   A 615     120.603 103.436  20.682  1.00 64.94      A16S
ATOM  12749  C4* C   A 615     119.747 102.224  20.947  1.00 64.94      A16S
ATOM  12750  O4* C   A 615     119.666 101.423  19.742  1.00 64.94      A16S
ATOM  12751  C1* C   A 615     119.605 100.048  20.086  1.00 64.94      A16S
ATOM  12752  N1  C   A 615     120.835  99.392  19.598  1.00 62.09      A16S
ATOM  12753  C6  C   A 615     122.036 100.043  19.655  1.00 62.09      A16S
ATOM  12754  C2  C   A 615     120.763  98.090  19.087  1.00 62.09      A16S
ATOM  12755  O2  C   A 615     119.670  97.506  19.066  1.00 62.09      A16S
ATOM  12756  N3  C   A 615     121.892  97.497  18.640  1.00 62.09      A16S
ATOM  12757  C4  C   A 615     123.057  98.145  18.705  1.00 62.09      A16S
ATOM  12758  N4  C   A 615     124.150  97.525  18.261  1.00 62.09      A16S
ATOM  12759  C5  C   A 615     123.157  99.461  19.229  1.00 62.09      A16S
ATOM  12760  C2* C   A 615     119.527  99.974  21.610  1.00 64.94      A16S
ATOM  12761  O2* C   A 615     118.180 100.016  22.035  1.00 64.94      A16S
ATOM  12762  C3* C   A 615     120.235 101.252  22.007  1.00 64.94      A16S
ATOM  12763  O3* C   A 615     119.866 101.610  23.319  1.00 64.94      A16S
ATOM  12764  P   G   A 616     120.609 100.911  24.564  1.00 71.14      A16S
ATOM  12765  O1P G   A 616     119.844 101.321  25.772  1.00 69.94      A16S
ATOM  12766  O2P G   A 616     122.069 101.194  24.495  1.00 69.94      A16S
ATOM  12767  O5* G   A 616     120.369  99.346  24.345  1.00 71.14      A16S
ATOM  12768  C5* G   A 616     119.063  98.778  24.569  1.00 71.14      A16S
ATOM  12769  C4* G   A 616     119.056  97.286  24.318  1.00 71.14      A16S
ATOM  12770  O4* G   A 616     119.494  97.019  22.964  1.00 71.14      A16S
ATOM  12771  C1* G   A 616     120.128  95.752  22.918  1.00 71.14      A16S
ATOM  12772  N9  G   A 616     121.494  95.919  22.439  1.00 69.94      A16S
ATOM  12773  C4  G   A 616     122.326  94.905  22.054  1.00 69.94      A16S
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ATOM	12774	N3	G	A	616	122.016	93.591	22.054	1.00	69.94	A16S
ATOM	12775	C2	G	A	616	123.017	92.851	21.637	1.00	69.94	A16S
ATOM	12776	N2	G	A	616	122.888	91.523	21.607	1.00	69.94	A16S
ATOM	12777	N1	G	A	616	124.224	93.361	21.230	1.00	69.94	A16S
ATOM	12778	C6	G	A	616	124.567	94.712	21.226	1.00	69.94	A16S
ATOM	12779	O6	G	A	616	125.693	95.068	20.849	1.00	69.94	A16S
ATOM	12780	C5	G	A	616	123.502	95.515	21.686	1.00	69.94	A16S
ATOM	12781	N7	G	A	616	123.414	96.889	21.842	1.00	69.94	A16S
ATOM	12782	C8	G	A	616	122.205	97.084	22.288	1.00	69.94	A16S
ATOM	12783	C2*	G	A	616	120.113	95.162	24.326	1.00	71.14	A16S
ATOM	12784	O2*	G	A	616	119.038	94.257	24.465	1.00	71.14	A16S
ATOM	12785	C3*	G	A	616	119.951	96.409	25.179	1.00	71.14	A16S
ATOM	12786	O3*	G	A	616	119.377	96.071	26.425	1.00	71.14	A16S
ATOM	12787	P	G	A	617	120.329	95.557	27.608	1.00	58.96	A16S
ATOM	12788	O1P	G	A	617	119.509	95.473	28.833	1.00	58.47	A16S
ATOM	12789	O2P	G	A	617	121.549	96.391	27.604	1.00	58.47	A16S
ATOM	12790	O5*	G	A	617	120.765	94.082	27.173	1.00	58.96	A16S
ATOM	12791	C5*	G	A	617	119.857	92.954	27.292	1.00	58.96	A16S
ATOM	12792	C4*	G	A	617	120.608	91.641	27.169	1.00	58.96	A16S
ATOM	12793	O4*	G	A	617	121.149	91.499	25.833	1.00	58.96	A16S
ATOM	12794	C1*	G	A	617	122.379	90.796	25.886	1.00	58.96	A16S
ATOM	12795	N9	G	A	617	123.429	91.597	25.260	1.00	58.47	A16S
ATOM	12796	C4	G	A	617	124.649	91.129	24.830	1.00	58.47	A16S
ATOM	12797	N3	G	A	617	125.073	89.851	24.894	1.00	58.47	A16S
ATOM	12798	C2	G	A	617	126.293	89.710	24.417	1.00	58.47	A16S
ATOM	12799	N2	G	A	617	126.860	88.494	24.397	1.00	58.47	A16S
ATOM	12800	N1	G	A	617	127.044	90.743	23.926	1.00	58.47	A16S
ATOM	12801	C6	G	A	617	126.634	92.067	23.860	1.00	58.47	A16S
ATOM	12802	O6	G	A	617	127.405	92.929	23.422	1.00	58.47	A16S
ATOM	12803	C5	G	A	617	125.316	92.231	24.352	1.00	58.47	A16S
ATOM	12804	N7	G	A	617	124.527	93.370	24.458	1.00	58.47	A16S
ATOM	12805	C8	G	A	617	123.419	92.947	24.999	1.00	58.47	A16S
ATOM	12806	C2*	G	A	617	122.678	90.470	27.348	1.00	58.96	A16S
ATOM	12807	O2*	G	A	617	122.323	89.126	27.587	1.00	58.96	A16S
ATOM	12808	C3*	G	A	617	121.804	91.476	28.087	1.00	58.96	A16S
ATOM	12809	O3*	G	A	617	121.399	90.980	29.348	1.00	58.96	A16S
ATOM	12810	P	C	A	618	122.221	91.399	30.663	1.00	58.99	A16S
ATOM	12811	O1P	C	A	618	121.527	90.757	31.821	1.00	56.17	A16S
ATOM	12812	O2P	C	A	618	122.391	92.879	30.634	1.00	56.17	A16S
ATOM	12813	O5*	C	A	618	123.662	90.730	30.460	1.00	58.99	A16S
ATOM	12814	C5*	C	A	618	123.831	89.322	30.667	1.00	58.99	A16S
ATOM	12815	C4*	C	A	618	125.242	88.857	30.355	1.00	58.99	A16S
ATOM	12816	O4*	C	A	618	125.574	89.075	28.968	1.00	58.99	A16S
ATOM	12817	C1*	C	A	618	126.947	88.809	28.814	1.00	58.99	A16S
ATOM	12818	N1	C	A	618	127.571	89.742	27.863	1.00	56.17	A16S
ATOM	12819	C6	C	A	618	127.282	91.075	27.869	1.00	56.17	A16S
ATOM	12820	C2	C	A	618	128.518	89.233	26.972	1.00	56.17	A16S
ATOM	12821	O2	C	A	618	128.713	88.007	26.934	1.00	56.17	A16S
ATOM	12822	N3	C	A	618	129.189	90.077	26.170	1.00	56.17	A16S
ATOM	12823	C4	C	A	618	128.934	91.375	26.212	1.00	56.17	A16S
ATOM	12824	N4	C	A	618	129.646	92.164	25.425	1.00	56.17	A16S
ATOM	12825	C5	C	A	618	127.940	91.920	27.068	1.00	56.17	A16S
ATOM	12826	C2*	C	A	618	127.596	88.859	30.199	1.00	58.99	A16S
ATOM	12827	O2*	C	A	618	127.975	87.537	30.514	1.00	58.99	A16S
ATOM	12828	C3*	C	A	618	126.466	89.392	31.084	1.00	58.99	A16S
ATOM	12829	O3*	C	A	618	126.565	88.820	32.394	1.00	58.99	A16S
ATOM	12830	P	U	A	619	127.901	89.024	33.299	1.00	48.58	A16S
ATOM	12831	O1P	U	A	619	129.077	88.393	32.627	1.00	57.14	A16S
ATOM	12832	O2P	U	A	619	127.549	88.624	34.689	1.00	57.14	A16S
ATOM	12833	O5*	U	A	619	128.170	90.589	33.332	1.00	48.58	A16S
ATOM	12834	C5*	U	A	619	127.272	91.470	34.004	1.00	48.58	A16S
ATOM	12835	C4*	U	A	619	127.938	92.791	34.243	1.00	48.58	A16S
ATOM	12836	O4*	U	A	619	128.896	92.667	35.315	1.00	48.58	A16S
ATOM	12837	C1*	U	A	619	129.975	93.544	35.081	1.00	48.58	A16S
ATOM	12838	N1	U	A	619	131.216	92.773	35.187	1.00	57.14	A16S
ATOM	12839	C6	U	A	619	131.333	91.539	34.615	1.00	57.14	A16S
ATOM	12840	C2	U	A	619	132.263	93.331	35.884	1.00	57.14	A16S
ATOM	12841	O2	U	A	619	132.204	94.431	36.411	1.00	57.14	A16S
ATOM	12842	N3	U	A	619	133.389	92.556	35.949	1.00	57.14	A16S
ATOM	12843	C4	U	A	619	133.565	91.312	35.409	1.00	57.14	A16S
ATOM	12844	O4	U	A	619	134.602	90.703	35.635	1.00	57.14	A16S
ATOM	12845	C5	U	A	619	132.444	90.809	34.699	1.00	57.14	A16S
ATOM	12846	C2*	U	A	619	129.763	94.225	33.724	1.00	48.58	A16S
ATOM	12847	O2*	U	A	619	129.290	95.545	33.887	1.00	48.58	A16S
ATOM	12848	C3*	U	A	619	128.737	93.313	33.069	1.00	48.58	A16S
ATOM	12849	O3*	U	A	619	127.913	93.985	32.130	1.00	48.58	A16S
ATOM	12850	P	C	A	620	128.142	93.724	30.568	1.00	51.52	A16S

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ATOM  12851  O1P C   A 620     127.048  94.382  29.798  1.00 36.37      A16S
ATOM  12852  O2P C   A 620     128.399  92.281  30.377  1.00 36.37      A16S
ATOM  12853  O5* C   A 620     129.512  94.467  30.280  1.00 51.52      A16S
ATOM  12854  C5* C   A 620     129.618  95.879  30.438  1.00 51.52      A16S
ATOM  12855  C4* C   A 620     130.874  96.370  29.779  1.00 51.52      A16S
ATOM  12856  O4* C   A 620     132.012  95.892  30.527  1.00 51.52      A16S
ATOM  12857  C1* C   A 620     133.104  95.710  29.651  1.00 51.52      A16S
ATOM  12858  N1   C   A 620     133.701  94.390  29.904  1.00 36.37      A16S
ATOM  12859  C6   C   A 620     132.920  93.294  30.129  1.00 36.37      A16S
ATOM  12860  C2   C   A 620     135.094  94.281  29.936  1.00 36.37      A16S
ATOM  12861  O2   C   A 620     135.788  95.282  29.692  1.00 36.37      A16S
ATOM  12862  N3   C   A 620     135.653  93.095  30.233  1.00 36.37      A16S
ATOM  12863  C4   C   A 620     134.882  92.042  30.490  1.00 36.37      A16S
ATOM  12864  N4   C   A 620     135.482  90.903  30.830  1.00 36.37      A16S
ATOM  12865  C5   C   A 620     133.465  92.112  30.425  1.00 36.37      A16S
ATOM  12866  C2* C   A 620     132.630  95.993  28.225  1.00 51.52      A16S
ATOM  12867  O2* C   A 620     133.012  97.311  27.895  1.00 51.52      A16S
ATOM  12868  C3* C   A 620     131.120  95.879  28.361  1.00 51.52      A16S
ATOM  12869  O3* C   A 620     130.469  96.715  27.419  1.00 51.52      A16S
ATOM  12870  P    A   A 621     130.007  96.111  26.007  1.00 41.87      A16S
ATOM  12871  O1P A   A 621     129.448  97.213  25.191  1.00 65.08      A16S
ATOM  12872  O2P A   A 621     129.167  94.920  26.285  1.00 65.08      A16S
ATOM  12873  O5* A   A 621     131.376  95.678  25.323  1.00 41.87      A16S
ATOM  12874  C5* A   A 621     132.285  96.671  24.839  1.00 41.87      A16S
ATOM  12875  C4* A   A 621     133.645  96.065  24.593  1.00 41.87      A16S
ATOM  12876  O4* A   A 621     134.122  95.448  25.815  1.00 41.87      A16S
ATOM  12877  C1* A   A 621     134.843  94.272  25.509  1.00 41.87      A16S
ATOM  12878  N9   A   A 621     134.143  93.154  26.137  1.00 65.08      A16S
ATOM  12879  C4   A   A 621     134.680  91.950  26.514  1.00 65.08      A16S
ATOM  12880  N3   A   A 621     135.953  91.549  26.382  1.00 65.08      A16S
ATOM  12881  C2   A   A 621     136.105  90.322  26.860  1.00 65.08      A16S
ATOM  12882  N1   A   A 621     135.200  89.516  27.420  1.00 65.08      A16S
ATOM  12883  C6   A   A 621     133.932  89.958  27.545  1.00 65.08      A16S
ATOM  12884  N6   A   A 621     133.032  89.170  28.128  1.00 65.08      A16S
ATOM  12885  C5   A   A 621     133.639  91.230  27.063  1.00 65.08      A16S
ATOM  12886  N7   A   A 621     132.462  91.958  27.024  1.00 65.08      A16S
ATOM  12887  C8   A   A 621     132.813  93.090  26.470  1.00 65.08      A16S
ATOM  12888  C2* A   A 621     134.917  94.158  23.985  1.00 41.87      A16S
ATOM  12889  O2* A   A 621     136.124  94.737  23.527  1.00 41.87      A16S
ATOM  12890  C3* A   A 621     133.699  94.962  23.556  1.00 41.87      A16S
ATOM  12891  O3* A   A 621     133.850  95.504  22.259  1.00 41.87      A16S
ATOM  12892  P    A   A 622     133.198  94.747  21.011  1.00 36.59      A16S
ATOM  12893  O1P A   A 622     133.520  95.553  19.813  1.00 53.53      A16S
ATOM  12894  O2P A   A 622     131.780  94.453  21.327  1.00 53.53      A16S
ATOM  12895  O5* A   A 622     134.014  93.376  20.933  1.00 36.59      A16S
ATOM  12896  C5* A   A 622     135.372  93.347  20.424  1.00 36.59      A16S
ATOM  12897  C4* A   A 622     136.014  91.990  20.638  1.00 36.59      A16S
ATOM  12898  O4* A   A 622     136.107  91.695  22.054  1.00 36.59      A16S
ATOM  12899  C1* A   A 622     135.920  90.307  22.267  1.00 36.59      A16S
ATOM  12900  N9   A   A 622     134.661  90.107  22.971  1.00 53.53      A16S
ATOM  12901  C4   A   A 622     134.323  88.990  23.686  1.00 53.53      A16S
ATOM  12902  N3   A   A 622     135.098  87.918  23.936  1.00 53.53      A16S
ATOM  12903  C2   A   A 622     134.425  87.010  24.640  1.00 53.53      A16S
ATOM  12904  N1   A   A 622     133.163  87.048  25.078  1.00 53.53      A16S
ATOM  12905  C6   A   A 622     132.414  88.141  24.799  1.00 53.53      A16S
ATOM  12906  N6   A   A 622     131.148  88.174  25.213  1.00 53.53      A16S
ATOM  12907  C5   A   A 622     133.015  89.177  24.077  1.00 53.53      A16S
ATOM  12908  N7   A   A 622     132.547  90.410  23.653  1.00 53.53      A16S
ATOM  12909  C8   A   A 622     133.565  90.926  23.016  1.00 53.53      A16S
ATOM  12910  C2* A   A 622     135.779  89.645  20.902  1.00 36.59      A16S
ATOM  12911  O2* A   A 622     137.019  89.117  20.481  1.00 36.59      A16S
ATOM  12912  C3* A   A 622     135.272  90.803  20.059  1.00 36.59      A16S
ATOM  12913  O3* A   A 622     135.543  90.607  18.694  1.00 36.59      A16S
ATOM  12914  P    C   A 623     134.324  90.399  17.686  1.00 38.39      A16S
ATOM  12915  O1P C   A 623     134.892  89.849  16.429  1.00 42.54      A16S
ATOM  12916  O2P C   A 623     133.583  91.676  17.659  1.00 42.54      A16S
ATOM  12917  O5* C   A 623     133.409  89.309  18.398  1.00 38.39      A16S
ATOM  12918  C5* C   A 623     133.833  87.933  18.473  1.00 38.39      A16S
ATOM  12919  C4* C   A 623     132.795  87.091  19.178  1.00 38.39      A16S
ATOM  12920  O4* C   A 623     132.719  87.482  20.574  1.00 38.39      A16S
ATOM  12921  C1* C   A 623     131.368  87.498  20.990  1.00 38.39      A16S
ATOM  12922  N1   C   A 623     130.988  88.903  21.208  1.00 42.54      A16S
ATOM  12923  C6   C   A 623     131.731  89.915  20.672  1.00 42.54      A16S
ATOM  12924  C2   C   A 623     129.848  89.190  21.951  1.00 42.54      A16S
ATOM  12925  O2   C   A 623     129.196  88.257  22.433  1.00 42.54      A16S
ATOM  12926  N3   C   A 623     129.483  90.477  22.126  1.00 42.54      A16S
ATOM  12927  C4   C   A 623     130.214  91.454  21.595  1.00 42.54      A16S
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ATOM  12928  N4  C   A 623     129.823  92.706  21.793  1.00 42.54      A16S
ATOM  12929  C5  C   A 623     131.380  91.190  20.837  1.00 42.54      A16S
ATOM  12930  C2* C   A 623     130.538  86.891  19.858  1.00 38.39      A16S
ATOM  12931  O2* C   A 623     130.448  85.497  20.032  1.00 38.39      A16S
ATOM  12932  C3* C   A 623     131.381  87.239  18.646  1.00 38.39      A16S
ATOM  12933  O3* C   A 623     131.121  86.383  17.545  1.00 38.39      A16S
ATOM  12934  P   C   A 624     130.062  86.843  16.425  1.00 36.47      A16S
ATOM  12935  O1P C   A 624     129.929  85.767  15.390  1.00 57.14      A16S
ATOM  12936  O2P C   A 624     130.434  88.232  16.006  1.00 57.14      A16S
ATOM  12937  O5* C   A 624     128.684  86.899  17.215  1.00 36.47      A16S
ATOM  12938  C5* C   A 624     128.144  85.718  17.794  1.00 36.47      A16S
ATOM  12939  C4* C   A 624     126.965  86.053  18.660  1.00 36.47      A16S
ATOM  12940  O4* C   A 624     127.397  86.930  19.721  1.00 36.47      A16S
ATOM  12941  C1* C   A 624     126.314  87.748  20.109  1.00 36.47      A16S
ATOM  12942  N1  C   A 624     126.731  89.152  20.080  1.00 57.14      A16S
ATOM  12943  C6  C   A 624     127.817  89.554  19.361  1.00 57.14      A16S
ATOM  12944  C2  C   A 624     125.978  90.076  20.792  1.00 57.14      A16S
ATOM  12945  O2  C   A 624     125.015  89.675  21.472  1.00 57.14      A16S
ATOM  12946  N3  C   A 624     126.313  91.379  20.732  1.00 57.14      A16S
ATOM  12947  C4  C   A 624     127.358  91.766  20.006  1.00 57.14      A16S
ATOM  12948  N4  C   A 624     127.633  93.070  19.953  1.00 57.14      A16S
ATOM  12949  C5  C   A 624     128.162  90.839  19.298  1.00 57.14      A16S
ATOM  12950  C2* C   A 624     125.129  87.468  19.182  1.00 36.47      A16S
ATOM  12951  O2* C   A 624     124.192  86.662  19.870  1.00 36.47      A16S
ATOM  12952  C3* C   A 624     125.804  86.781  18.000  1.00 36.47      A16S
ATOM  12953  O3* C   A 624     124.925  85.864  17.360  1.00 36.47      A16S
ATOM  12954  P   G   A 625     124.004  86.354  16.138  1.00 42.61      A16S
ATOM  12955  O1P G   A 625     123.415  85.168  15.491  1.00 56.79      A16S
ATOM  12956  O2P G   A 625     124.771  87.325  15.329  1.00 56.79      A16S
ATOM  12957  O5* G   A 625     122.791  87.100  16.838  1.00 42.61      A16S
ATOM  12958  C5* G   A 625     121.931  86.379  17.725  1.00 42.61      A16S
ATOM  12959  C4* G   A 625     120.890  87.294  18.315  1.00 42.61      A16S
ATOM  12960  O4* G   A 625     121.507  88.267  19.194  1.00 42.61      A16S
ATOM  12961  C1* G   A 625     120.791  89.485  19.116  1.00 42.61      A16S
ATOM  12962  N9  G   A 625     121.711  90.550  18.715  1.00 56.79      A16S
ATOM  12963  C4  G   A 625     121.480  91.912  18.807  1.00 56.79      A16S
ATOM  12964  N3  G   A 625     120.348  92.502  19.254  1.00 56.79      A16S
ATOM  12965  C2  G   A 625     120.446  93.819  19.254  1.00 56.79      A16S
ATOM  12966  N2  G   A 625     119.420  94.568  19.677  1.00 56.79      A16S
ATOM  12967  N1  G   A 625     121.556  94.502  18.844  1.00 56.79      A16S
ATOM  12968  C6  G   A 625     122.725  93.920  18.382  1.00 56.79      A16S
ATOM  12969  O6  G   A 625     123.664  94.633  18.045  1.00 56.79      A16S
ATOM  12970  C5  G   A 625     122.641  92.507  18.375  1.00 56.79      A16S
ATOM  12971  N7  G   A 625     123.574  91.550  17.992  1.00 56.79      A16S
ATOM  12972  C8  G   A 625     122.979  90.408  18.205  1.00 56.79      A16S
ATOM  12973  C2* G   A 625     119.621  89.285  18.154  1.00 42.61      A16S
ATOM  12974  O2* G   A 625     118.473  88.933  18.892  1.00 42.61      A16S
ATOM  12975  C3* G   A 625     120.113  88.121  17.313  1.00 42.61      A16S
ATOM  12976  O3* G   A 625     119.045  87.390  16.745  1.00 42.61      A16S
ATOM  12977  P   U   A 626     118.514  87.802  15.297  1.00 47.34      A16S
ATOM  12978  O1P U   A 626     117.544  86.776  14.859  1.00 57.79      A16S
ATOM  12979  O2P U   A 626     119.712  88.088  14.459  1.00 57.79      A16S
ATOM  12980  O5* U   A 626     117.723  89.159  15.570  1.00 47.34      A16S
ATOM  12981  C5* U   A 626     116.471  89.157  16.296  1.00 47.34      A16S
ATOM  12982  C4* U   A 626     115.937  90.569  16.465  1.00 47.34      A16S
ATOM  12983  O4* U   A 626     116.794  91.317  17.367  1.00 47.34      A16S
ATOM  12984  C1* U   A 626     116.882  92.665  16.936  1.00 47.34      A16S
ATOM  12985  N1  U   A 626     118.274  92.938  16.539  1.00 57.79      A16S
ATOM  12986  C6  U   A 626     119.146  91.923  16.222  1.00 57.79      A16S
ATOM  12987  C2  U   A 626     118.679  94.256  16.482  1.00 57.79      A16S
ATOM  12988  O2  U   A 626     117.934  95.190  16.753  1.00 57.79      A16S
ATOM  12989  N3  U   A 626     119.983  94.446  16.090  1.00 57.79      A16S
ATOM  12990  C4  U   A 626     120.894  93.476  15.754  1.00 57.79      A16S
ATOM  12991  O4  U   A 626     122.021  93.803  15.401  1.00 57.79      A16S
ATOM  12992  C5  U   A 626     120.403  92.143  15.841  1.00 57.79      A16S
ATOM  12993  C2* U   A 626     115.933  92.832  15.755  1.00 47.34      A16S
ATOM  12994  O2* U   A 626     114.662  93.236  16.210  1.00 47.34      A16S
ATOM  12995  C3* U   A 626     115.887  91.422  15.210  1.00 47.34      A16S
ATOM  12996  O3* U   A 626     114.733  91.229  14.433  1.00 47.34      A16S
ATOM  12997  P   G   A 627     114.814  91.531  12.870  1.00 48.74      A16S
ATOM  12998  O1P G   A 627     113.527  91.194  12.224  1.00 53.59      A16S
ATOM  12999  O2P G   A 627     116.066  90.909  12.390  1.00 53.59      A16S
ATOM  13000  O5* G   A 627     114.999  93.105  12.814  1.00 48.74      A16S
ATOM  13001  C5* G   A 627     113.943  93.963  13.249  1.00 48.74      A16S
ATOM  13002  C4* G   A 627     114.346  95.408  13.126  1.00 48.74      A16S
ATOM  13003  O4* G   A 627     115.474  95.671  13.994  1.00 48.74      A16S
ATOM  13004  C1* G   A 627     116.278  96.684  13.423  1.00 48.74      A16S
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ATOM  13005  N9  G   A 627     117.612  96.148  13.186  1.00 53.59      A16S
ATOM  13006  C4  G   A 627     118.737  96.881  12.902  1.00 53.59      A16S
ATOM  13007  N3  G   A 627     118.805  98.224  12.811  1.00 53.59      A16S
ATOM  13008  C2  G   A 627     120.019  98.637  12.515  1.00 53.59      A16S
ATOM  13009  N2  G   A 627     120.265  99.938  12.395  1.00 53.59      A16S
ATOM  13010  N1  G   A 627     121.082  97.802  12.316  1.00 53.59      A16S
ATOM  13011  C6  G   A 627     121.034  96.417  12.398  1.00 53.59      A16S
ATOM  13012  O6  G   A 627     122.047  95.755  12.185  1.00 53.59      A16S
ATOM  13013  C5  G   A 627     119.739  95.960  12.726  1.00 53.59      A16S
ATOM  13014  N7  G   A 627     119.260  94.670  12.909  1.00 53.59      A16S
ATOM  13015  C8  G   A 627     117.995  94.831  13.183  1.00 53.59      A16S
ATOM  13016  C2* G   A 627     115.623  97.114  12.113  1.00 48.74      A16S
ATOM  13017  O2* G   A 627     114.784  98.230  12.336  1.00 48.74      A16S
ATOM  13018  C3* G   A 627     114.808  95.886  11.761  1.00 48.74      A16S
ATOM  13019  O3* G   A 627     113.743  96.253  10.911  1.00 48.74      A16S
ATOM  13020  P   G   A 628     114.024  96.434   9.343  1.00 52.42      A16S
ATOM  13021  O1P G   A 628     112.740  96.803   8.694  1.00 75.94      A16S
ATOM  13022  O2P G   A 628     114.768  95.238   8.874  1.00 75.94      A16S
ATOM  13023  O5* G   A 628     114.995  97.690   9.258  1.00 52.42      A16S
ATOM  13024  C5* G   A 628     114.530  98.995   9.614  1.00 52.42      A16S
ATOM  13025  C4* G   A 628     115.634 100.006   9.440  1.00 52.42      A16S
ATOM  13026  O4* G   A 628     116.741  99.692  10.329  1.00 52.42      A16S
ATOM  13027  C1* G   A 628     117.974 100.001   9.697  1.00 52.42      A16S
ATOM  13028  N9  G   A 628     118.730  98.757   9.544  1.00 75.94      A16S
ATOM  13029  C4  G   A 628     120.055  98.631   9.198  1.00 75.94      A16S
ATOM  13030  N3  G   A 628     120.911  99.642   8.955  1.00 75.94      A16S
ATOM  13031  C2  G   A 628     122.109  99.200   8.623  1.00 75.94      A16S
ATOM  13032  N2  G   A 628     123.083 100.069   8.347  1.00 75.94      A16S
ATOM  13033  N1  G   A 628     122.441  97.874   8.534  1.00 75.94      A16S
ATOM  13034  C6  G   A 628     121.573  96.816   8.774  1.00 75.94      A16S
ATOM  13035  O6  G   A 628     121.966  95.653   8.648  1.00 75.94      A16S
ATOM  13036  C5  G   A 628     120.290  97.273   9.139  1.00 75.94      A16S
ATOM  13037  N7  G   A 628     119.146  96.559   9.461  1.00 75.94      A16S
ATOM  13038  C8  G   A 628     118.250  97.477   9.697  1.00 75.94      A16S
ATOM  13039  C2* G   A 628     117.633 100.653   8.356  1.00 52.42      A16S
ATOM  13040  O2* G   A 628     117.547 102.048   8.550  1.00 52.42      A16S
ATOM  13041  C3* G   A 628     116.264 100.059   8.063  1.00 52.42      A16S
ATOM  13042  O3* G   A 628     115.495 100.854   7.181  1.00 52.42      A16S
ATOM  13043  P   G   A 629     115.453 100.481   5.620  1.00 69.82      A16S
ATOM  13044  O1P G   A 629     114.328 101.236   5.020  1.00 76.43      A16S
ATOM  13045  O2P G   A 629     115.505  99.006   5.458  1.00 76.43      A16S
ATOM  13046  O5* G   A 629     116.816 101.090   5.080  1.00 69.82      A16S
ATOM  13047  C5* G   A 629     117.103 102.480   5.270  1.00 69.82      A16S
ATOM  13048  C4* G   A 629     118.528 102.771   4.911  1.00 69.82      A16S
ATOM  13049  O4* G   A 629     119.411 102.201   5.909  1.00 69.82      A16S
ATOM  13050  C1* G   A 629     120.581 101.696   5.286  1.00 69.82      A16S
ATOM  13051  N9  G   A 629     120.594 100.241   5.438  1.00 76.43      A16S
ATOM  13052  C4  G   A 629     121.648  99.393   5.177  1.00 76.43      A16S
ATOM  13053  N3  G   A 629     122.875  99.758   4.759  1.00 76.43      A16S
ATOM  13054  C2  G   A 629     123.658  98.716   4.558  1.00 76.43      A16S
ATOM  13055  N2  G   A 629     124.906  98.899   4.115  1.00 76.43      A16S
ATOM  13056  N1  G   A 629     123.278  97.417   4.767  1.00 76.43      A16S
ATOM  13057  C6  G   A 629     122.024  97.013   5.203  1.00 76.43      A16S
ATOM  13058  O6  G   A 629     121.782  95.805   5.359  1.00 76.43      A16S
ATOM  13059  C5  G   A 629     121.164  98.125   5.410  1.00 76.43      A16S
ATOM  13060  N7  G   A 629     119.842  98.172   5.827  1.00 76.43      A16S
ATOM  13061  C8  G   A 629     119.549  99.443   5.835  1.00 76.43      A16S
ATOM  13062  C2* G   A 629     120.493 102.082   3.810  1.00 69.82      A16S
ATOM  13063  O2* G   A 629     121.112 103.339   3.608  1.00 69.82      A16S
ATOM  13064  C3* G   A 629     118.990 102.150   3.611  1.00 69.82      A16S
ATOM  13065  O3* G   A 629     118.603 102.890   2.471  1.00 69.82      A16S
ATOM  13066  P   G   A 630     118.502 102.142   1.056  1.00112.33      A16S
ATOM  13067  O1P G   A 630     117.825 103.056   0.105  1.00 95.42      A16S
ATOM  13068  O2P G   A 630     117.947 100.788   1.290  1.00 95.42      A16S
ATOM  13069  O5* G   A 630     120.023 101.983   0.626  1.00112.33      A16S
ATOM  13070  C5* G   A 630     120.931 103.089   0.762  1.00112.33      A16S
ATOM  13071  C4* G   A 630     122.353 102.634   0.561  1.00112.33      A16S
ATOM  13072  O4* G   A 630     122.752 101.733   1.624  1.00112.33      A16S
ATOM  13073  C1* G   A 630     123.641 100.756   1.112  1.00112.33      A16S
ATOM  13074  N9  G   A 630     123.068  99.436   1.354  1.00 95.42      A16S
ATOM  13075  C4  G   A 630     123.749  98.242   1.390  1.00 95.42      A16S
ATOM  13076  N3  G   A 630     125.082  98.078   1.222  1.00 95.42      A16S
ATOM  13077  C2  G   A 630     125.435  96.804   1.294  1.00 95.42      A16S
ATOM  13078  N2  G   A 630     126.719  96.452   1.139  1.00 95.42      A16S
ATOM  13079  N1  G   A 630     124.553  95.778   1.519  1.00 95.42      A16S
ATOM  13080  C6  G   A 630     123.179  95.925   1.695  1.00 95.42      A16S
ATOM  13081  O6  G   A 630     122.469  94.930   1.882  1.00 95.42      A16S
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ATOM  13082  C5  G   A 630     122.787  97.282   1.620  1.00 95.42      A16S
ATOM  13083  N7  G   A 630     121.532  97.859   1.740  1.00 95.42      A16S
ATOM  13084  C8  G   A 630     121.746  99.134   1.577  1.00 95.42      A16S
ATOM  13085  C2* G   A 630     123.853 101.047  -0.377  1.00112.33      A16S
ATOM  13086  O2* G   A 630     125.053 101.777  -0.541  1.00112.33      A16S
ATOM  13087  C3* G   A 630     122.607 101.859  -0.717  1.00112.33      A16S
ATOM  13088  O3* G   A 630     122.790 102.749  -1.810  1.00112.33      A16S
ATOM  13089  P   G   A 631     122.285 102.319  -3.270  1.00111.27      A16S
ATOM  13090  O1P G   A 631     120.895 101.799  -3.146  1.00142.37      A16S
ATOM  13091  O2P G   A 631     122.567 103.441  -4.199  1.00142.37      A16S
ATOM  13092  O5* G   A 631     123.242 101.098  -3.633  1.00111.27      A16S
ATOM  13093  C5* G   A 631     124.681 101.248  -3.608  1.00111.27      A16S
ATOM  13094  C4* G   A 631     125.356  99.905  -3.789  1.00111.27      A16S
ATOM  13095  O4* G   A 631     125.246  99.113  -2.578  1.00111.27      A16S
ATOM  13096  C1* G   A 631     125.031  97.751  -2.913  1.00111.27      A16S
ATOM  13097  N9  G   A 631     123.731  97.356  -2.369  1.00142.37      A16S
ATOM  13098  C4  G   A 631     123.290  96.073  -2.125  1.00142.37      A16S
ATOM  13099  N3  G   A 631     123.986  94.937  -2.343  1.00142.37      A16S
ATOM  13100  C2  G   A 631     123.287  93.860  -2.020  1.00142.37      A16S
ATOM  13101  N2  G   A 631     123.827  92.643  -2.175  1.00142.37      A16S
ATOM  13102  N1  G   A 631     122.007  93.896  -1.521  1.00142.37      A16S
ATOM  13103  C6  G   A 631     121.270  95.052  -1.289  1.00142.37      A16S
ATOM  13104  O6  G   A 631     120.119  94.972  -0.840  1.00142.37      A16S
ATOM  13105  C5  G   A 631     122.007  96.215  -1.631  1.00142.37      A16S
ATOM  13106  N7  G   A 631     121.652  97.555  -1.560  1.00142.37      A16S
ATOM  13107  C8  G   A 631     122.700  98.193  -2.005  1.00142.37      A16S
ATOM  13108  C2* G   A 631     125.115  97.632  -4.439  1.00111.27      A16S
ATOM  13109  O2* G   A 631     126.429  97.261  -4.802  1.00111.27      A16S
ATOM  13110  C3* G   A 631     124.752  99.046  -4.883  1.00111.27      A16S
ATOM  13111  O3* G   A 631     125.282  99.407  -6.151  1.00111.27      A16S
ATOM  13112  P   A   A 632     124.297  99.972  -7.295  1.00 76.45      A16S
ATOM  13113  O1P A   A 632     124.256 101.457  -7.204  1.00105.84      A16S
ATOM  13114  O2P A   A 632     123.024  99.208  -7.247  1.00105.84      A16S
ATOM  13115  O5* A   A 632     125.061  99.594  -8.641  1.00 76.45      A16S
ATOM  13116  C5* A   A 632     126.350 100.163  -8.921  1.00 76.45      A16S
ATOM  13117  C4* A   A 632     127.357  99.086  -9.267  1.00 76.45      A16S
ATOM  13118  O4* A   A 632     127.527  98.167  -8.153  1.00 76.45      A16S
ATOM  13119  C1* A   A 632     127.792  96.866  -8.650  1.00 76.45      A16S
ATOM  13120  N9  A   A 632     126.689  95.986  -8.260  1.00105.84      A16S
ATOM  13121  C4  A   A 632     126.689  94.617  -8.348  1.00105.84      A16S
ATOM  13122  N3  A   A 632     127.699  93.828  -8.746  1.00105.84      A16S
ATOM  13123  C2  A   A 632     127.327  92.555  -8.738  1.00105.84      A16S
ATOM  13124  N1  A   A 632     126.147  92.019  -8.408  1.00105.84      A16S
ATOM  13125  C6  A   A 632     125.152  92.842  -8.016  1.00105.84      A16S
ATOM  13126  N6  A   A 632     123.969  92.311  -7.703  1.00105.84      A16S
ATOM  13127  C5  A   A 632     125.422  94.215  -7.970  1.00105.84      A16S
ATOM  13128  N7  A   A 632     124.646  95.306  -7.611  1.00105.84      A16S
ATOM  13129  C8  A   A 632     125.443  96.329  -7.790  1.00105.84      A16S
ATOM  13130  C2* A   A 632     127.868  96.966 -10.174  1.00 76.45      A16S
ATOM  13131  O2* A   A 632     129.208  97.156 -10.566  1.00 76.45      A16S
ATOM  13132  C3* A   A 632     127.018  98.197 -10.447  1.00 76.45      A16S
ATOM  13133  O3* A   A 632     127.341  98.811 -11.682  1.00 76.45      A16S
ATOM  13134  P   G   A 633     126.323  98.675 -12.914  1.00 53.55      A16S
ATOM  13135  O1P G   A 633     126.948  99.246 -14.125  1.00 60.90      A16S
ATOM  13136  O2P G   A 633     124.991  99.155 -12.489  1.00 60.90      A16S
ATOM  13137  O5* G   A 633     126.225  97.107 -13.142  1.00 53.55      A16S
ATOM  13138  C5* G   A 633     127.386  96.340 -13.512  1.00 53.55      A16S
ATOM  13139  C4* G   A 633     127.027  94.881 -13.600  1.00 53.55      A16S
ATOM  13140  O4* G   A 633     126.750  94.371 -12.275  1.00 53.55      A16S
ATOM  13141  C1* G   A 633     125.649  93.486 -12.325  1.00 53.55      A16S
ATOM  13142  N9  G   A 633     124.578  94.050 -11.509  1.00 60.90      A16S
ATOM  13143  C4  G   A 633     123.535  93.366 -10.938  1.00 60.90      A16S
ATOM  13144  N3  G   A 633     123.330  92.040 -11.010  1.00 60.90      A16S
ATOM  13145  C2  G   A 633     122.240  91.683 -10.380  1.00 60.90      A16S
ATOM  13146  N2  G   A 633     121.887  90.396 -10.344  1.00 60.90      A16S
ATOM  13147  N1  G   A 633     121.417  92.559  -9.735  1.00 60.90      A16S
ATOM  13148  C6  G   A 633     121.612  93.927  -9.650  1.00 60.90      A16S
ATOM  13149  O6  G   A 633     120.800  94.630  -9.045  1.00 60.90      A16S
ATOM  13150  C5  G   A 633     122.772  94.319 -10.310  1.00 60.90      A16S
ATOM  13151  N7  G   A 633     123.329  95.576 -10.462  1.00 60.90      A16S
ATOM  13152  C8  G   A 633     124.399  95.368 -11.177  1.00 60.90      A16S
ATOM  13153  C2* G   A 633     125.235  93.338 -13.791  1.00 53.55      A16S
ATOM  13154  O2* G   A 633     125.842  92.208 -14.389  1.00 53.55      A16S
ATOM  13155  C3* G   A 633     125.754  94.632 -14.378  1.00 53.55      A16S
ATOM  13156  O3* G   A 633     126.002  94.525 -15.755  1.00 53.55      A16S
ATOM  13157  P   C   A 634     124.875  94.997 -16.778  1.00 33.94      A16S
ATOM  13158  O1P C   A 634     125.441  94.881 -18.152  1.00 53.08      A16S
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ATOM  13159  O2P C   A 634     124.357  96.308 -16.294  1.00 53.08      A16S
ATOM  13160  O5* C   A 634     123.748  93.887 -16.613  1.00 33.94      A16S
ATOM  13161  C5* C   A 634     123.962  92.579 -17.156  1.00 33.94      A16S
ATOM  13162  C4* C   A 634     122.874  91.635 -16.730  1.00 33.94      A16S
ATOM  13163  O4* C   A 634     122.847  91.580 -15.289  1.00 33.94      A16S
ATOM  13164  C1* C   A 634     121.525  91.367 -14.851  1.00 33.94      A16S
ATOM  13165  N1  C   A 634     121.108  92.527 -14.043  1.00 53.08      A16S
ATOM  13166  C6  C   A 634     121.852  93.675 -14.015  1.00 53.08      A16S
ATOM  13167  C2  C   A 634     119.918  92.444 -13.319  1.00 53.08      A16S
ATOM  13168  O2  C   A 634     119.284  91.384 -13.330  1.00 53.08      A16S
ATOM  13169  N3  C   A 634     119.489  93.519 -12.627  1.00 53.08      A16S
ATOM  13170  C4  C   A 634     120.201  94.643 -12.635  1.00 53.08      A16S
ATOM  13171  N4  C   A 634     119.714  95.690 -11.973  1.00 53.08      A16S
ATOM  13172  C5  C   A 634     121.438  94.746 -13.331  1.00 53.08      A16S
ATOM  13173  C2* C   A 634     120.657  91.191 -16.097  1.00 33.94      A16S
ATOM  13174  O2* C   A 634     120.620  89.817 -16.426  1.00 33.94      A16S
ATOM  13175  C3* C   A 634     121.449  91.965 -17.135  1.00 33.94      A16S
ATOM  13176  O3* C   A 634     121.152  91.496 -18.446  1.00 33.94      A16S
ATOM  13177  P   G   A 635     119.915  92.131 -19.266  1.00 42.51      A16S
ATOM  13178  O1P G   A 635     119.869  91.553 -20.642  1.00 50.39      A16S
ATOM  13179  O2P G   A 635     119.962  93.600 -19.093  1.00 50.39      A16S
ATOM  13180  O5* G   A 635     118.627  91.612 -18.497  1.00 42.51      A16S
ATOM  13181  C5* G   A 635     118.307  90.221 -18.453  1.00 42.51      A16S
ATOM  13182  C4* G   A 635     116.931  90.031 -17.875  1.00 42.51      A16S
ATOM  13183  O4* G   A 635     116.935  90.344 -16.459  1.00 42.51      A16S
ATOM  13184  C1* G   A 635     115.683  90.899 -16.094  1.00 42.51      A16S
ATOM  13185  N9  G   A 635     115.895  92.213 -15.512  1.00 50.39      A16S
ATOM  13186  C4  G   A 635     114.990  92.907 -14.774  1.00 50.39      A16S
ATOM  13187  N3  G   A 635     113.771  92.473 -14.428  1.00 50.39      A16S
ATOM  13188  C2  G   A 635     113.113  93.373 -13.735  1.00 50.39      A16S
ATOM  13189  N2  G   A 635     111.874  93.100 -13.299  1.00 50.39      A16S
ATOM  13190  N1  G   A 635     113.615  94.607 -13.413  1.00 50.39      A16S
ATOM  13191  C6  G   A 635     114.872  95.077 -13.768  1.00 50.39      A16S
ATOM  13192  O6  G   A 635     115.230  96.222 -13.439  1.00 50.39      A16S
ATOM  13193  C5  G   A 635     115.587  94.115 -14.501  1.00 50.39      A16S
ATOM  13194  N7  G   A 635     116.859  94.167 -15.039  1.00 50.39      A16S
ATOM  13195  C8  G   A 635     117.003  93.011 -15.622  1.00 50.39      A16S
ATOM  13196  C2* G   A 635     114.824  91.000 -17.354  1.00 42.51      A16S
ATOM  13197  O2* G   A 635     113.916  89.922 -17.365  1.00 42.51      A16S
ATOM  13198  C3* G   A 635     115.872  90.945 -18.459  1.00 42.51      A16S
ATOM  13199  O3* G   A 635     115.371  90.438 -19.685  1.00 42.51      A16S
ATOM  13200  P   U   A 636     114.866  91.460 -20.809  1.00 36.26      A16S
ATOM  13201  O1P U   A 636     114.542  90.698 -22.044  1.00 45.90      A16S
ATOM  13202  O2P U   A 636     115.815  92.590 -20.866  1.00 45.90      A16S
ATOM  13203  O5* U   A 636     113.524  92.035 -20.195  1.00 36.26      A16S
ATOM  13204  C5* U   A 636     112.413  91.177 -19.970  1.00 36.26      A16S
ATOM  13205  C4* U   A 636     111.306  91.926 -19.285  1.00 36.26      A16S
ATOM  13206  O4* U   A 636     111.675  92.266 -17.925  1.00 36.26      A16S
ATOM  13207  C1* U   A 636     111.048  93.478 -17.560  1.00 36.26      A16S
ATOM  13208  N1  U   A 636     112.076  94.449 -17.173  1.00 45.90      A16S
ATOM  13209  C6  U   A 636     113.382  94.294 -17.533  1.00 45.90      A16S
ATOM  13210  C2  U   A 636     111.668  95.540 -16.446  1.00 45.90      A16S
ATOM  13211  O2  U   A 636     110.515  95.698 -16.093  1.00 45.90      A16S
ATOM  13212  N3  U   A 636     112.654  96.445 -16.151  1.00 45.90      A16S
ATOM  13213  C4  U   A 636     113.975  96.361 -16.501  1.00 45.90      A16S
ATOM  13214  O4  U   A 636     114.746  97.266 -16.185  1.00 45.90      A16S
ATOM  13215  C5  U   A 636     114.320  95.188 -17.234  1.00 45.90      A16S
ATOM  13216  C2* U   A 636     110.230  93.954 -18.758  1.00 36.26      A16S
ATOM  13217  O2* U   A 636     108.915  93.470 -18.603  1.00 36.26      A16S
ATOM  13218  C3* U   A 636     110.930  93.251 -19.907  1.00 36.26      A16S
ATOM  13219  O3* U   A 636     110.093  93.057 -21.027  1.00 36.26      A16S
ATOM  13220  P   G   A 637     109.920  94.242 -22.086  1.00 57.69      A16S
ATOM  13221  O1P G   A 637     109.066  93.704 -23.169  1.00 51.74      A16S
ATOM  13222  O2P G   A 637     111.249  94.803 -22.423  1.00 51.74      A16S
ATOM  13223  O5* G   A 637     109.138  95.352 -21.250  1.00 57.69      A16S
ATOM  13224  C5* G   A 637     107.785  95.135 -20.819  1.00 57.69      A16S
ATOM  13225  C4* G   A 637     107.263  96.343 -20.081  1.00 57.69      A16S
ATOM  13226  O4* G   A 637     107.929  96.485 -18.798  1.00 57.69      A16S
ATOM  13227  C1* G   A 637     108.069  97.862 -18.475  1.00 57.69      A16S
ATOM  13228  N9  G   A 637     109.488  98.182 -18.464  1.00 51.74      A16S
ATOM  13229  C4  G   A 637     110.092  99.249 -17.852  1.00 51.74      A16S
ATOM  13230  N3  G   A 637     109.481 100.187 -17.111  1.00 51.74      A16S
ATOM  13231  C2  G   A 637     110.343 101.093 -16.659  1.00 51.74      A16S
ATOM  13232  N2  G   A 637     109.926 102.093 -15.876  1.00 51.74      A16S
ATOM  13233  N1  G   A 637     111.682 101.082 -16.930  1.00 51.74      A16S
ATOM  13234  C6  G   A 637     112.327 100.128 -17.692  1.00 51.74      A16S
ATOM  13235  O6  G   A 637     113.546 100.210 -17.876  1.00 51.74      A16S
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ATOM  13236  C5   G   A 637     111.425  99.146 -18.170  1.00 51.74      A16S
ATOM  13237  N7   G   A 637     111.657  98.028 -18.954  1.00 51.74      A16S
ATOM  13238  C8   G   A 637     110.482  97.486 -19.098  1.00 51.74      A16S
ATOM  13239  C2*  G   A 637     107.388  98.653 -19.585  1.00 57.69      A16S
ATOM  13240  O2*  G   A 637     106.060  98.921 -19.195  1.00 57.69      A16S
ATOM  13241  C3*  G   A 637     107.490  97.681 -20.753  1.00 57.69      A16S
ATOM  13242  O3*  G   A 637     106.568  97.945 -21.790  1.00 57.69      A16S
ATOM  13243  P    G   A 638     107.035  98.835 -23.044  1.00 45.58      A16S
ATOM  13244  O1P  G   A 638     108.418  98.443 -23.426  1.00 63.86      A16S
ATOM  13245  O2P  G   A 638     105.948  98.757 -24.057  1.00 63.86      A16S
ATOM  13246  O5*  G   A 638     107.113 100.316 -22.456  1.00 45.58      A16S
ATOM  13247  C5*  G   A 638     105.939 100.952 -21.947  1.00 45.58      A16S
ATOM  13248  C4*  G   A 638     106.286 102.243 -21.256  1.00 45.58      A16S
ATOM  13249  O4*  G   A 638     107.109 101.980 -20.088  1.00 45.58      A16S
ATOM  13250  C1*  G   A 638     108.026 103.059 -19.891  1.00 45.58      A16S
ATOM  13251  N9   G   A 638     109.395 102.562 -20.066  1.00 63.86      A16S
ATOM  13252  C4   G   A 638     110.560 103.205 -19.701  1.00 63.86      A16S
ATOM  13253  N3   G   A 638     110.649 104.378 -19.046  1.00 63.86      A16S
ATOM  13254  C2   G   A 638     111.900 104.751 -18.874  1.00 63.86      A16S
ATOM  13255  N2   G   A 638     112.171 105.867 -18.217  1.00 63.86      A16S
ATOM  13256  N1   G   A 638     112.980 104.049 -19.326  1.00 63.86      A16S
ATOM  13257  C6   G   A 638     112.917 102.840 -20.012  1.00 63.86      A16S
ATOM  13258  O6   G   A 638     113.964 102.288 -20.402  1.00 63.86      A16S
ATOM  13259  C5   G   A 638     111.578 102.411 -20.179  1.00 63.86      A16S
ATOM  13260  N7   G   A 638     111.073 101.271 -20.785  1.00 63.86      A16S
ATOM  13261  C8   G   A 638     109.779 101.396 -20.684  1.00 63.86      A16S
ATOM  13262  C2*  G   A 638     107.731 104.099 -20.975  1.00 45.58      A16S
ATOM  13263  O2*  G   A 638     106.862 105.112 -20.507  1.00 45.58      A16S
ATOM  13264  C3*  G   A 638     107.111 103.231 -22.057  1.00 45.58      A16S
ATOM  13265  O3*  G   A 638     106.391 103.983 -23.006  1.00 45.58      A16S
ATOM  13266  P    G   A 639     107.158 104.507 -24.317  1.00 62.50      A16S
ATOM  13267  O1P  G   A 639     108.021 103.390 -24.822  1.00 55.35      A16S
ATOM  13268  O2P  G   A 639     106.139 105.097 -25.221  1.00 55.35      A16S
ATOM  13269  O5*  G   A 639     108.083 105.673 -23.739  1.00 62.50      A16S
ATOM  13270  C5*  G   A 639     107.479 106.807 -23.100  1.00 62.50      A16S
ATOM  13271  C4*  G   A 639     108.515 107.706 -22.463  1.00 62.50      A16S
ATOM  13272  O4*  G   A 639     109.312 106.945 -21.520  1.00 62.50      A16S
ATOM  13273  C1*  G   A 639     110.603 107.528 -21.403  1.00 62.50      A16S
ATOM  13274  N9   G   A 639     111.616 106.564 -21.832  1.00 55.35      A16S
ATOM  13275  C4   G   A 639     112.976 106.760 -21.788  1.00 55.35      A16S
ATOM  13276  N3   G   A 639     113.598 107.852 -21.311  1.00 55.35      A16S
ATOM  13277  C2   G   A 639     114.901 107.761 -21.420  1.00 55.35      A16S
ATOM  13278  N2   G   A 639     115.665 108.758 -20.989  1.00 55.35      A16S
ATOM  13279  N1   G   A 639     115.547 106.687 -21.959  1.00 55.35      A16S
ATOM  13280  C6   G   A 639     114.928 105.556 -22.463  1.00 55.35      A16S
ATOM  13281  O6   G   A 639     115.606 104.651 -22.941  1.00 55.35      A16S
ATOM  13282  C5   G   A 639     113.526 105.635 -22.344  1.00 55.35      A16S
ATOM  13283  N7   G   A 639     112.538 104.734 -22.715  1.00 55.35      A16S
ATOM  13284  C8   G   A 639     111.423 105.322 -22.385  1.00 55.35      A16S
ATOM  13285  C2*  G   A 639     110.625 108.747 -22.320  1.00 62.50      A16S
ATOM  13286  O2*  G   A 639     110.301 109.886 -21.552  1.00 62.50      A16S
ATOM  13287  C3*  G   A 639     109.554 108.383 -23.338  1.00 62.50      A16S
ATOM  13288  O3*  G   A 639     109.078 109.531 -24.015  1.00 62.50      A16S
ATOM  13289  P    A   A 640     109.836 110.024 -25.346  1.00 48.97      A16S
ATOM  13290  O1P  A   A 640     109.126 111.232 -25.843  1.00 34.23      A16S
ATOM  13291  O2P  A   A 640     110.038 108.863 -26.254  1.00 34.23      A16S
ATOM  13292  O5*  A   A 640     111.251 110.508 -24.809  1.00 48.97      A16S
ATOM  13293  C5*  A   A 640     111.334 111.623 -23.904  1.00 48.97      A16S
ATOM  13294  C4*  A   A 640     112.753 112.130 -23.807  1.00 48.97      A16S
ATOM  13295  O4*  A   A 640     113.568 111.188 -23.067  1.00 48.97      A16S
ATOM  13296  C1*  A   A 640     114.868 111.154 -23.619  1.00 48.97      A16S
ATOM  13297  N9   A   A 640     115.100 109.810 -24.153  1.00 34.23      A16S
ATOM  13298  C4   A   A 640     116.303 109.148 -24.206  1.00 34.23      A16S
ATOM  13299  N3   A   A 640     117.500 109.586 -23.781  1.00 34.23      A16S
ATOM  13300  C2   A   A 640     118.432 108.672 -23.987  1.00 34.23      A16S
ATOM  13301  N1   A   A 640     118.321 107.463 -24.525  1.00 34.23      A16S
ATOM  13302  C6   A   A 640     117.109 107.052 -24.942  1.00 34.23      A16S
ATOM  13303  N6   A   A 640     116.995 105.838 -25.482  1.00 34.23      A16S
ATOM  13304  C5   A   A 640     116.034 107.928 -24.783  1.00 34.23      A16S
ATOM  13305  N7   A   A 640     114.690 107.817 -25.094  1.00 34.23      A16S
ATOM  13306  C8   A   A 640     114.182 108.956 -24.702  1.00 34.23      A16S
ATOM  13307  C2*  A   A 640     114.935 112.232 -24.703  1.00 48.97      A16S
ATOM  13308  O2*  A   A 640     115.380 113.436 -24.113  1.00 48.97      A16S
ATOM  13309  C3*  A   A 640     113.479 112.334 -25.126  1.00 48.97      A16S
ATOM  13310  O3*  A   A 640     113.177 113.599 -25.705  1.00 48.97      A16S
ATOM  13311  P    U   A 641     113.168 113.761 -27.307  1.00 55.83      A16S
ATOM  13312  O1P  U   A 641     112.751 115.157 -27.606  1.00 40.07      A16S
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ATOM  13313  O2P U   A 641     112.427 112.623 -27.915  1.00 40.07      A16S
ATOM  13314  O5* U   A 641     114.696 113.606 -27.711  1.00 55.83      A16S
ATOM  13315  C5* U   A 641     115.696 114.388 -27.056  1.00 55.83      A16S
ATOM  13316  C4* U   A 641     117.051 114.002 -27.555  1.00 55.83      A16S
ATOM  13317  O4* U   A 641     117.357 112.655 -27.112  1.00 55.83      A16S
ATOM  13318  C1* U   A 641     117.758 111.877 -28.218  1.00 55.83      A16S
ATOM  13319  N1  U   A 641     117.246 110.508 -28.059  1.00 40.07      A16S
ATOM  13320  C6  U   A 641     115.910 110.245 -28.116  1.00 40.07      A16S
ATOM  13321  C2  U   A 641     118.156 109.491 -27.899  1.00 40.07      A16S
ATOM  13322  O2  U   A 641     119.351 109.686 -27.743  1.00 40.07      A16S
ATOM  13323  N3  U   A 641     117.616 108.232 -27.911  1.00 40.07      A16S
ATOM  13324  C4  U   A 641     116.288 107.906 -28.030  1.00 40.07      A16S
ATOM  13325  O4  U   A 641     115.961 106.736 -28.173  1.00 40.07      A16S
ATOM  13326  C5  U   A 641     115.417 109.014 -28.106  1.00 40.07      A16S
ATOM  13327  C2* U   A 641     117.180 112.552 -29.462  1.00 55.83      A16S
ATOM  13328  O2* U   A 641     117.985 112.283 -30.595  1.00 55.83      A16S
ATOM  13329  C3* U   A 641     117.200 114.022 -29.072  1.00 55.83      A16S
ATOM  13330  O3* U   A 641     118.437 114.585 -29.436  1.00 55.83      A16S
ATOM  13331  P   A   A 642     118.473 116.065 -30.044  1.00 37.98      A16S
ATOM  13332  O1P A   A 642     117.811 116.920 -29.025  1.00 39.90      A16S
ATOM  13333  O2P A   A 642     117.955 116.040 -31.437  1.00 39.90      A16S
ATOM  13334  O5* A   A 642     120.020 116.423 -30.073  1.00 37.98      A16S
ATOM  13335  C5* A   A 642     120.482 117.686 -29.591  1.00 37.98      A16S
ATOM  13336  C4* A   A 642     121.756 117.507 -28.806  1.00 37.98      A16S
ATOM  13337  O4* A   A 642     121.481 116.979 -27.486  1.00 37.98      A16S
ATOM  13338  C1* A   A 642     122.550 116.141 -27.087  1.00 37.98      A16S
ATOM  13339  N9  A   A 642     122.026 114.787 -26.951  1.00 39.90      A16S
ATOM  13340  C4  A   A 642     122.582 113.762 -26.232  1.00 39.90      A16S
ATOM  13341  N3  A   A 642     123.694 113.803 -25.485  1.00 39.90      A16S
ATOM  13342  C2  A   A 642     123.934 112.613 -24.956  1.00 39.90      A16S
ATOM  13343  N1  A   A 642     123.243 111.468 -25.084  1.00 39.90      A16S
ATOM  13344  C6  A   A 642     122.137 111.468 -25.854  1.00 39.90      A16S
ATOM  13345  N6  A   A 642     121.467 110.330 -26.021  1.00 39.90      A16S
ATOM  13346  C5  A   A 642     121.768 112.667 -26.453  1.00 39.90      A16S
ATOM  13347  N7  A   A 642     120.707 113.000 -27.274  1.00 39.90      A16S
ATOM  13348  C8  A   A 642     120.903 114.266 -27.538  1.00 39.90      A16S
ATOM  13349  C2* A   A 642     123.607 116.191 -28.190  1.00 37.98      A16S
ATOM  13350  O2* A   A 642     124.536 117.226 -27.947  1.00 37.98      A16S
ATOM  13351  C3* A   A 642     122.765 116.541 -29.393  1.00 37.98      A16S
ATOM  13352  O3* A   A 642     123.552 117.140 -30.387  1.00 37.98      A16S
ATOM  13353  P   C   A 643     124.125 116.236 -31.570  1.00 36.10      A16S
ATOM  13354  O1P C   A 643     123.011 115.381 -32.073  1.00 50.44      A16S
ATOM  13355  O2P C   A 643     124.828 117.144 -32.514  1.00 50.44      A16S
ATOM  13356  O5* C   A 643     125.194 115.310 -30.828  1.00 36.10      A16S
ATOM  13357  C5* C   A 643     126.397 115.872 -30.257  1.00 36.10      A16S
ATOM  13358  C4* C   A 643     127.250 114.786 -29.635  1.00 36.10      A16S
ATOM  13359  O4* C   A 643     126.578 114.238 -28.471  1.00 36.10      A16S
ATOM  13360  C1* C   A 643     126.830 112.841 -28.385  1.00 36.10      A16S
ATOM  13361  N1  C   A 643     125.543 112.127 -28.565  1.00 50.44      A16S
ATOM  13362  C6  C   A 643     124.686 112.478 -29.569  1.00 50.44      A16S
ATOM  13363  C2  C   A 643     125.208 111.094 -27.690  1.00 50.44      A16S
ATOM  13364  O2  C   A 643     126.011 110.757 -26.811  1.00 50.44      A16S
ATOM  13365  N3  C   A 643     124.019 110.477 -27.823  1.00 50.44      A16S
ATOM  13366  C4  C   A 643     123.179 110.846 -28.784  1.00 50.44      A16S
ATOM  13367  N4  C   A 643     121.997 110.230 -28.845  1.00 50.44      A16S
ATOM  13368  C5  C   A 643     123.506 111.868 -29.714  1.00 50.44      A16S
ATOM  13369  C2* C   A 643     127.839 112.495 -29.479  1.00 36.10      A16S
ATOM  13370  O2* C   A 643     129.168 112.627 -29.010  1.00 36.10      A16S
ATOM  13371  C3* C   A 643     127.537 113.569 -30.500  1.00 36.10      A16S
ATOM  13372  O3* C   A 643     128.626 113.712 -31.364  1.00 36.10      A16S
ATOM  13373  P   G   A 644     128.635 112.874 -32.718  1.00 47.36      A16S
ATOM  13374  O1P G   A 644     129.881 113.266 -33.423  1.00 60.09      A16S
ATOM  13375  O2P G   A 644     127.325 113.037 -33.388  1.00 60.09      A16S
ATOM  13376  O5* G   A 644     128.718 111.360 -32.241  1.00 47.36      A16S
ATOM  13377  C5* G   A 644     129.937 110.846 -31.688  1.00 47.36      A16S
ATOM  13378  C4* G   A 644     129.837 109.363 -31.448  1.00 47.36      A16S
ATOM  13379  O4* G   A 644     129.022 109.096 -30.280  1.00 47.36      A16S
ATOM  13380  C1* G   A 644     128.350 107.860 -30.459  1.00 47.36      A16S
ATOM  13381  N9  G   A 644     126.909 108.081 -30.470  1.00 60.09      A16S
ATOM  13382  C4  G   A 644     125.971 107.089 -30.506  1.00 60.09      A16S
ATOM  13383  N3  G   A 644     126.224 105.769 -30.472  1.00 60.09      A16S
ATOM  13384  C2  G   A 644     125.128 105.054 -30.559  1.00 60.09      A16S
ATOM  13385  N2  G   A 644     125.198 103.726 -30.497  1.00 60.09      A16S
ATOM  13386  N1  G   A 644     123.880 105.587 -30.701  1.00 60.09      A16S
ATOM  13387  C6  G   A 644     123.593 106.945 -30.743  1.00 60.09      A16S
ATOM  13388  O6  G   A 644     122.430 107.320 -30.887  1.00 60.09      A16S
ATOM  13389  C5  G   A 644     124.765 107.729 -30.618  1.00 60.09      A16S
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ATOM  13390  N7  G   A 644     124.935 109.108 -30.608  1.00 60.09      A16S
ATOM  13391  C8  G   A 644     126.224 109.271 -30.506  1.00 60.09      A16S
ATOM  13392  C2* G   A 644     128.758 107.292 -31.819  1.00 47.36      A16S
ATOM  13393  O2* G   A 644     129.805 106.363 -31.662  1.00 47.36      A16S
ATOM  13394  C3* G   A 644     129.198 108.543 -32.556  1.00 47.36      A16S
ATOM  13395  O3* G   A 644     130.090 108.226 -33.607  1.00 47.36      A16S
ATOM  13396  P   C   A 645     129.518 108.043 -35.093  1.00 41.50      A16S
ATOM  13397  O1P C   A 645     130.660 107.698 -35.968  1.00 51.54      A16S
ATOM  13398  O2P C   A 645     128.670 109.232 -35.406  1.00 51.54      A16S
ATOM  13399  O5* C   A 645     128.587 106.760 -34.991  1.00 41.50      A16S
ATOM  13400  C5* C   A 645     129.132 105.507 -34.562  1.00 41.50      A16S
ATOM  13401  C4* C   A 645     128.061 104.444 -34.522  1.00 41.50      A16S
ATOM  13402  O4* C   A 645     127.089 104.752 -33.493  1.00 41.50      A16S
ATOM  13403  C1* C   A 645     125.807 104.300 -33.898  1.00 41.50      A16S
ATOM  13404  N1  C   A 645     124.883 105.453 -33.917  1.00 51.54      A16S
ATOM  13405  C6  C   A 645     125.310 106.700 -33.555  1.00 51.54      A16S
ATOM  13406  C2  C   A 645     123.570 105.259 -34.344  1.00 51.54      A16S
ATOM  13407  O2  C   A 645     123.191 104.113 -34.619  1.00 51.54      A16S
ATOM  13408  N3  C   A 645     122.749 106.321 -34.444  1.00 51.54      A16S
ATOM  13409  C4  C   A 645     123.184 107.535 -34.116  1.00 51.54      A16S
ATOM  13410  N4  C   A 645     122.344 108.559 -34.246  1.00 51.54      A16S
ATOM  13411  C5  C   A 645     124.501 107.757 -33.642  1.00 51.54      A16S
ATOM  13412  C2* C   A 645     125.965 103.633 -35.270  1.00 41.50      A16S
ATOM  13413  O2* C   A 645     126.082 102.246 -35.074  1.00 41.50      A16S
ATOM  13414  C3* C   A 645     127.249 104.266 -35.790  1.00 41.50      A16S
ATOM  13415  O3* C   A 645     127.943 103.424 -36.698  1.00 41.50      A16S
ATOM  13416  P   U   A 646     127.906 103.743 -38.277  1.00 49.85      A16S
ATOM  13417  O1P U   A 646     128.862 102.831 -38.953  1.00 52.39      A16S
ATOM  13418  O2P U   A 646     128.028 105.211 -38.485  1.00 52.39      A16S
ATOM  13419  O5* U   A 646     126.441 103.282 -38.690  1.00 49.85      A16S
ATOM  13420  C5* U   A 646     125.964 101.967 -38.347  1.00 49.85      A16S
ATOM  13421  C4* U   A 646     124.477 101.887 -38.554  1.00 49.85      A16S
ATOM  13422  O4* U   A 646     123.801 102.645 -37.522  1.00 49.85      A16S
ATOM  13423  C1* U   A 646     122.659 103.273 -38.073  1.00 49.85      A16S
ATOM  13424  N1  U   A 646     122.762 104.727 -37.872  1.00 52.39      A16S
ATOM  13425  C6  U   A 646     123.951 105.337 -37.562  1.00 52.39      A16S
ATOM  13426  C2  U   A 646     121.610 105.464 -38.011  1.00 52.39      A16S
ATOM  13427  O2  U   A 646     120.538 104.967 -38.272  1.00 52.39      A16S
ATOM  13428  N3  U   A 646     121.755 106.808 -37.829  1.00 52.39      A16S
ATOM  13429  C4  U   A 646     122.908 107.480 -37.525  1.00 52.39      A16S
ATOM  13430  O4  U   A 646     122.880 108.707 -37.432  1.00 52.39      A16S
ATOM  13431  C5  U   A 646     124.060 106.652 -37.386  1.00 52.39      A16S
ATOM  13432  C2* U   A 646     122.558 102.876 -39.548  1.00 49.85      A16S
ATOM  13433  O2* U   A 646     121.639 101.815 -39.672  1.00 49.85      A16S
ATOM  13434  C3* U   A 646     123.994 102.480 -39.866  1.00 49.85      A16S
ATOM  13435  O3* U   A 646     124.105 101.544 -40.934  1.00 49.85      A16S
ATOM  13436  P   C   A 647     124.582 102.042 -42.387  1.00 53.22      A16S
ATOM  13437  O1P C   A 647     125.044 100.855 -43.140  1.00 52.68      A16S
ATOM  13438  O2P C   A 647     125.492 103.194 -42.216  1.00 52.68      A16S
ATOM  13439  O5* C   A 647     123.237 102.548 -43.069  1.00 53.22      A16S
ATOM  13440  C5* C   A 647     122.179 101.612 -43.335  1.00 53.22      A16S
ATOM  13441  C4* C   A 647     120.869 102.323 -43.564  1.00 53.22      A16S
ATOM  13442  O4* C   A 647     120.412 102.957 -42.346  1.00 53.22      A16S
ATOM  13443  C1* C   A 647     119.692 104.134 -42.671  1.00 53.22      A16S
ATOM  13444  N1  C   A 647     120.386 105.288 -42.088  1.00 52.68      A16S
ATOM  13445  C6  C   A 647     121.742 105.281 -41.909  1.00 52.68      A16S
ATOM  13446  C2  C   A 647     119.635 106.399 -41.730  1.00 52.68      A16S
ATOM  13447  O2  C   A 647     118.404 106.370 -41.903  1.00 52.68      A16S
ATOM  13448  N3  C   A 647     120.266 107.478 -41.206  1.00 52.68      A16S
ATOM  13449  C4  C   A 647     121.591 107.464 -41.039  1.00 52.68      A16S
ATOM  13450  N4  C   A 647     122.173 108.548 -40.523  1.00 52.68      A16S
ATOM  13451  C5  C   A 647     122.377 106.338 -41.393  1.00 52.68      A16S
ATOM  13452  C2* C   A 647     119.653 104.252 -44.192  1.00 53.22      A16S
ATOM  13453  O2* C   A 647     118.462 103.667 -44.672  1.00 53.22      A16S
ATOM  13454  C3* C   A 647     120.874 103.440 -44.589  1.00 53.22      A16S
ATOM  13455  O3* C   A 647     120.741 102.944 -45.900  1.00 53.22      A16S
ATOM  13456  P   A   A 648     121.263 103.828 -47.120  1.00 63.98      A16S
ATOM  13457  O1P A   A 648     121.133 102.974 -48.329  1.00 64.59      A16S
ATOM  13458  O2P A   A 648     122.587 104.376 -46.745  1.00 64.59      A16S
ATOM  13459  O5* A   A 648     120.232 105.043 -47.176  1.00 63.98      A16S
ATOM  13460  C5* A   A 648     118.859 104.821 -47.544  1.00 63.98      A16S
ATOM  13461  C4* A   A 648     118.057 106.099 -47.436  1.00 63.98      A16S
ATOM  13462  O4* A   A 648     117.925 106.501 -46.046  1.00 63.98      A16S
ATOM  13463  C1* A   A 648     117.843 107.917 -45.967  1.00 63.98      A16S
ATOM  13464  N9  A   A 648     118.952 108.414 -45.154  1.00 64.59      A16S
ATOM  13465  C4  A   A 648     119.087 109.710 -44.719  1.00 64.59      A16S
ATOM  13466  N3  A   A 648     118.238 110.730 -44.927  1.00 64.59      A16S
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ATOM  13467  C2  A   A 648     118.702 111.845 -44.373  1.00 64.59      A16S
ATOM  13468  N1  A   A 648     119.832 112.044 -43.690  1.00 64.59      A16S
ATOM  13469  C6  A   A 648     120.666 111.000 -43.506  1.00 64.59      A16S
ATOM  13470  N6  A   A 648     121.798 111.202 -42.838  1.00 64.59      A16S
ATOM  13471  C5  A   A 648     120.287 109.757 -44.038  1.00 64.59      A16S
ATOM  13472  N7  A   A 648     120.893 108.508 -44.025  1.00 64.59      A16S
ATOM  13473  C8  A   A 648     120.060 107.747 -44.694  1.00 64.59      A16S
ATOM  13474  C2* A   A 648     117.937 108.466 -47.391  1.00 63.98      A16S
ATOM  13475  O2* A   A 648     116.642 108.717 -47.898  1.00 63.98      A16S
ATOM  13476  C3* A   A 648     118.642 107.325 -48.107  1.00 63.98      A16S
ATOM  13477  O3* A   A 648     118.428 107.355 -49.495  1.00 63.98      A16S
ATOM  13478  P   G   A 649     119.531 108.042 -50.430  1.00 57.16      A16S
ATOM  13479  O1P G   A 649     119.128 107.782 -51.840  1.00 64.00      A16S
ATOM  13480  O2P G   A 649     120.869 107.621 -49.961  1.00 64.00      A16S
ATOM  13481  O5* G   A 649     119.395 109.589 -50.099  1.00 57.16      A16S
ATOM  13482  C5* G   A 649     118.173 110.260 -50.357  1.00 57.16      A16S
ATOM  13483  C4* G   A 649     118.248 111.685 -49.900  1.00 57.16      A16S
ATOM  13484  O4* G   A 649     118.471 111.740 -48.469  1.00 57.16      A16S
ATOM  13485  C1* G   A 649     119.043 112.993 -48.148  1.00 57.16      A16S
ATOM  13486  N9  G   A 649     120.229 112.817 -47.320  1.00 64.00      A16S
ATOM  13487  C4  G   A 649     120.739 113.784 -46.514  1.00 64.00      A16S
ATOM  13488  N3  G   A 649     120.229 115.016 -46.369  1.00 64.00      A16S
ATOM  13489  C2  G   A 649     120.927 115.737 -45.527  1.00 64.00      A16S
ATOM  13490  N2  G   A 649     120.552 116.993 -45.277  1.00 64.00      A16S
ATOM  13491  N1  G   A 649     122.039 115.282 -44.868  1.00 64.00      A16S
ATOM  13492  C6  G   A 649     122.585 114.014 -45.006  1.00 64.00      A16S
ATOM  13493  O6  G   A 649     123.590 113.710 -44.368  1.00 64.00      A16S
ATOM  13494  C5  G   A 649     121.846 113.228 -45.919  1.00 64.00      A16S
ATOM  13495  N7  G   A 649     122.039 111.927 -46.357  1.00 64.00      A16S
ATOM  13496  C8  G   A 649     121.050 111.722 -47.187  1.00 64.00      A16S
ATOM  13497  C2* G   A 649     119.419 113.683 -49.453  1.00 57.16      A16S
ATOM  13498  O2* G   A 649     118.455 114.673 -49.744  1.00 57.16      A16S
ATOM  13499  C3* G   A 649     119.389 112.522 -50.432  1.00 57.16      A16S
ATOM  13500  O3* G   A 649     119.208 112.983 -51.747  1.00 57.16      A16S
ATOM  13501  P   G   A 650     120.505 113.359 -52.616  1.00 54.63      A16S
ATOM  13502  O1P G   A 650     120.012 113.647 -53.992  1.00 61.41      A16S
ATOM  13503  O2P G   A 650     121.535 112.306 -52.405  1.00 61.41      A16S
ATOM  13504  O5* G   A 650     121.069 114.690 -51.945  1.00 54.63      A16S
ATOM  13505  C5* G   A 650     120.298 115.880 -51.977  1.00 54.63      A16S
ATOM  13506  C4* G   A 650     120.903 116.940 -51.095  1.00 54.63      A16S
ATOM  13507  O4* G   A 650     120.918 116.530 -49.700  1.00 54.63      A16S
ATOM  13508  C1* G   A 650     121.915 117.270 -49.012  1.00 54.63      A16S
ATOM  13509  N9  G   A 650     122.848 116.360 -48.353  1.00 61.41      A16S
ATOM  13510  C4  G   A 650     123.842 116.735 -47.483  1.00 61.41      A16S
ATOM  13511  N3  G   A 650     124.098 117.991 -47.071  1.00 61.41      A16S
ATOM  13512  C2  G   A 650     125.117 118.042 -46.239  1.00 61.41      A16S
ATOM  13513  N2  G   A 650     125.496 119.215 -45.726  1.00 61.41      A16S
ATOM  13514  N1  G   A 650     125.837 116.951 -45.845  1.00 61.41      A16S
ATOM  13515  C6  G   A 650     125.596 115.645 -46.256  1.00 61.41      A16S
ATOM  13516  O6  G   A 650     126.310 114.727 -45.837  1.00 61.41      A16S
ATOM  13517  C5  G   A 650     124.495 115.573 -47.149  1.00 61.41      A16S
ATOM  13518  N7  G   A 650     123.916 114.481 -47.784  1.00 61.41      A16S
ATOM  13519  C8  G   A 650     122.940 114.996 -48.483  1.00 61.41      A16S
ATOM  13520  C2* G   A 650     122.650 118.109 -50.055  1.00 54.63      A16S
ATOM  13521  O2* G   A 650     122.085 119.405 -50.087  1.00 54.63      A16S
ATOM  13522  C3* G   A 650     122.335 117.364 -51.340  1.00 54.63      A16S
ATOM  13523  O3* G   A 650     122.485 118.238 -52.433  1.00 54.63      A16S
ATOM  13524  P   C   A 651     123.940 118.432 -53.075  1.00 37.45      A16S
ATOM  13525  O1P C   A 651     123.829 119.389 -54.216  1.00 54.09      A16S
ATOM  13526  O2P C   A 651     124.498 117.070 -53.318  1.00 54.09      A16S
ATOM  13527  O5* C   A 651     124.782 119.134 -51.914  1.00 37.45      A16S
ATOM  13528  C5* C   A 651     124.481 120.474 -51.529  1.00 37.45      A16S
ATOM  13529  C4* C   A 651     125.485 120.993 -50.531  1.00 37.45      A16S
ATOM  13530  O4* C   A 651     125.550 120.105 -49.400  1.00 37.45      A16S
ATOM  13531  C1* C   A 651     126.836 120.168 -48.821  1.00 37.45      A16S
ATOM  13532  N1  C   A 651     127.393 118.809 -48.734  1.00 54.09      A16S
ATOM  13533  C6  C   A 651     126.920 117.792 -49.520  1.00 54.09      A16S
ATOM  13534  C2  C   A 651     128.425 118.574 -47.823  1.00 54.09      A16S
ATOM  13535  O2  C   A 651     128.843 119.526 -47.135  1.00 54.09      A16S
ATOM  13536  N3  C   A 651     128.942 117.324 -47.720  1.00 54.09      A16S
ATOM  13537  C4  C   A 651     128.472 116.341 -48.494  1.00 54.09      A16S
ATOM  13538  N4  C   A 651     129.010 115.128 -48.367  1.00 54.09      A16S
ATOM  13539  C5  C   A 651     127.428 116.558 -49.435  1.00 54.09      A16S
ATOM  13540  C2* C   A 651     127.681 121.125 -49.655  1.00 37.45      A16S
ATOM  13541  O2* C   A 651     127.672 122.360 -48.983  1.00 37.45      A16S
ATOM  13542  C3* C   A 651     126.923 121.144 -50.979  1.00 37.45      A16S
ATOM  13543  O3* C   A 651     127.082 122.380 -51.651  1.00 37.45      A16S
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ATOM  13544  P    U   A 652     128.149 122.510 -52.841  1.00 49.59      A16S
ATOM  13545  O1P  U   A 652     127.961 123.858 -53.428  1.00 52.60      A16S
ATOM  13546  O2P  U   A 652     128.069 121.305 -53.723  1.00 52.60      A16S
ATOM  13547  O5*  U   A 652     129.542 122.532 -52.078  1.00 49.59      A16S
ATOM  13548  C5*  U   A 652     129.791 123.528 -51.083  1.00 49.59      A16S
ATOM  13549  C4*  U   A 652     131.135 123.309 -50.443  1.00 49.59      A16S
ATOM  13550  O4*  U   A 652     131.165 122.004 -49.813  1.00 49.59      A16S
ATOM  13551  C1*  U   A 652     132.269 121.278 -50.291  1.00 49.59      A16S
ATOM  13552  N1   U   A 652     131.905 119.858 -50.312  1.00 52.60      A16S
ATOM  13553  C6   U   A 652     130.936 119.364 -51.150  1.00 52.60      A16S
ATOM  13554  C2   U   A 652     132.576 119.035 -49.436  1.00 52.60      A16S
ATOM  13555  O2   U   A 652     133.458 119.442 -48.685  1.00 52.60      A16S
ATOM  13556  N3   U   A 652     132.184 117.721 -49.467  1.00 52.60      A16S
ATOM  13557  C4   U   A 652     131.218 117.161 -50.273  1.00 52.60      A16S
ATOM  13558  O4   U   A 652     130.997 115.953 -50.199  1.00 52.60      A16S
ATOM  13559  C5   U   A 652     130.577 118.078 -51.157  1.00 52.60      A16S
ATOM  13560  C2*  U   A 652     132.640 121.896 -51.634  1.00 49.59      A16S
ATOM  13561  O2*  U   A 652     133.996 121.650 -51.921  1.00 49.59      A16S
ATOM  13562  C3*  U   A 652     132.343 123.366 -51.366  1.00 49.59      A16S
ATOM  13563  O3*  U   A 652     133.393 123.922 -50.591  1.00 49.59      A16S
ATOM  13564  P    A   A 653     134.544 124.780 -51.292  1.00 59.61      A16S
ATOM  13565  O1P  A   A 653     134.117 126.188 -51.247  1.00 55.55      A16S
ATOM  13566  O2P  A   A 653     134.882 124.160 -52.595  1.00 55.55      A16S
ATOM  13567  O5*  A   A 653     135.758 124.620 -50.282  1.00 59.61      A16S
ATOM  13568  C5*  A   A 653     136.036 123.352 -49.665  1.00 59.61      A16S
ATOM  13569  C4*  A   A 653     136.830 123.555 -48.401  1.00 59.61      A16S
ATOM  13570  O4*  A   A 653     136.029 124.262 -47.412  1.00 59.61      A16S
ATOM  13571  C1*  A   A 653     136.028 123.532 -46.202  1.00 59.61      A16S
ATOM  13572  N9   A   A 653     134.760 123.743 -45.502  1.00 55.55      A16S
ATOM  13573  C4   A   A 653     133.527 123.243 -45.840  1.00 55.55      A16S
ATOM  13574  N3   A   A 653     133.225 122.477 -46.904  1.00 55.55      A16S
ATOM  13575  C2   A   A 653     131.936 122.171 -46.901  1.00 55.55      A16S
ATOM  13576  N1   A   A 653     130.983 122.510 -46.015  1.00 55.55      A16S
ATOM  13577  C6   A   A 653     131.329 123.271 -44.952  1.00 55.55      A16S
ATOM  13578  N6   A   A 653     130.391 123.586 -44.056  1.00 55.55      A16S
ATOM  13579  C5   A   A 653     132.661 123.677 -44.852  1.00 55.55      A16S
ATOM  13580  N7   A   A 653     133.327 124.457 -43.920  1.00 55.55      A16S
ATOM  13581  C8   A   A 653     134.564 124.469 -44.350  1.00 55.55      A16S
ATOM  13582  C2*  A   A 653     136.313 122.083 -46.598  1.00 59.61      A16S
ATOM  13583  O2*  A   A 653     136.830 121.365 -45.499  1.00 59.61      A16S
ATOM  13584  C3*  A   A 653     137.319 122.278 -47.726  1.00 59.61      A16S
ATOM  13585  O3*  A   A 653     138.594 122.565 -47.157  1.00 59.61      A16S
ATOM  13586  P    G   A 654     139.925 121.939 -47.798  1.00 57.84      A16S
ATOM  13587  O1P  G   A 654     141.028 122.691 -47.139  1.00 38.70      A16S
ATOM  13588  O2P  G   A 654     139.847 121.892 -49.304  1.00 38.70      A16S
ATOM  13589  O5*  G   A 654     139.935 120.450 -47.237  1.00 57.84      A16S
ATOM  13590  C5*  G   A 654     140.472 120.168 -45.939  1.00 57.84      A16S
ATOM  13591  C4*  G   A 654     140.544 118.683 -45.717  1.00 57.84      A16S
ATOM  13592  O4*  G   A 654     139.204 118.148 -45.619  1.00 57.84      A16S
ATOM  13593  C1*  G   A 654     139.168 116.852 -46.181  1.00 57.84      A16S
ATOM  13594  N9   G   A 654     138.301 116.892 -47.347  1.00 38.70      A16S
ATOM  13595  C4   G   A 654     137.725 115.819 -47.964  1.00 38.70      A16S
ATOM  13596  N3   G   A 654     137.849 114.535 -47.592  1.00 38.70      A16S
ATOM  13597  C2   G   A 654     137.178 113.731 -48.385  1.00 38.70      A16S
ATOM  13598  N2   G   A 654     137.176 112.422 -48.159  1.00 38.70      A16S
ATOM  13599  N1   G   A 654     136.457 114.153 -49.458  1.00 38.70      A16S
ATOM  13600  C6   G   A 654     136.330 115.470 -49.860  1.00 38.70      A16S
ATOM  13601  O6   G   A 654     135.678 115.743 -50.856  1.00 38.70      A16S
ATOM  13602  C5   G   A 654     137.023 116.338 -49.018  1.00 38.70      A16S
ATOM  13603  N7   G   A 654     137.147 117.714 -49.064  1.00 38.70      A16S
ATOM  13604  C8   G   A 654     137.915 117.999 -48.053  1.00 38.70      A16S
ATOM  13605  C2*  G   A 654     140.587 116.499 -46.602  1.00 57.84      A16S
ATOM  13606  O2*  G   A 654     141.248 115.829 -45.550  1.00 57.84      A16S
ATOM  13607  C3*  G   A 654     141.176 117.874 -46.830  1.00 57.84      A16S
ATOM  13608  O3*  G   A 654     142.578 117.831 -46.763  1.00 57.84      A16S
ATOM  13609  P    A   A 655     143.417 117.757 -48.126  1.00 43.60      A16S
ATOM  13610  O1P  A   A 655     144.837 117.560 -47.747  1.00 46.38      A16S
ATOM  13611  O2P  A   A 655     143.037 118.931 -48.954  1.00 46.38      A16S
ATOM  13612  O5*  A   A 655     142.883 116.440 -48.846  1.00 43.60      A16S
ATOM  13613  C5*  A   A 655     143.201 115.141 -48.324  1.00 43.60      A16S
ATOM  13614  C4*  A   A 655     142.566 114.063 -49.169  1.00 43.60      A16S
ATOM  13615  O4*  A   A 655     141.125 114.162 -49.064  1.00 43.60      A16S
ATOM  13616  C1*  A   A 655     140.533 113.843 -50.306  1.00 43.60      A16S
ATOM  13617  N9   A   A 655     139.876 115.043 -50.804  1.00 46.38      A16S
ATOM  13618  C4   A   A 655     138.977 115.093 -51.836  1.00 46.38      A16S
ATOM  13619  N3   A   A 655     138.504 114.060 -52.553  1.00 46.38      A16S
ATOM  13620  C2   A   A 655     137.669 114.487 -53.492  1.00 46.38      A16S
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ATOM  13621  N1  A   A 655     137.284 115.733 -53.775  1.00 46.38      A16S
ATOM  13622  C6  A   A 655     137.775 116.745 -53.028  1.00 46.38      A16S
ATOM  13623  N6  A   A 655     137.387 117.988 -53.303  1.00 46.38      A16S
ATOM  13624  C5  A   A 655     138.668 116.425 -52.001  1.00 46.38      A16S
ATOM  13625  N7  A   A 655     139.342 117.204 -51.074  1.00 46.38      A16S
ATOM  13626  C8  A   A 655     140.039 116.337 -50.386  1.00 46.38      A16S
ATOM  13627  C2* A   A 655     141.650 113.414 -51.259  1.00 43.60      A16S
ATOM  13628  O2* A   A 655     141.810 112.010 -51.253  1.00 43.60      A16S
ATOM  13629  C3* A   A 655     142.846 114.136 -50.663  1.00 43.60      A16S
ATOM  13630  O3* A   A 655     144.076 113.536 -51.039  1.00 43.60      A16S
ATOM  13631  P   C   A 656     144.929 114.178 -52.240  1.00 53.20      A16S
ATOM  13632  O1P C   A 656     146.252 113.525 -52.167  1.00 56.36      A16S
ATOM  13633  O2P C   A 656     144.852 115.658 -52.206  1.00 56.36      A16S
ATOM  13634  O5* C   A 656     144.171 113.676 -53.542  1.00 53.20      A16S
ATOM  13635  C5* C   A 656     144.032 112.282 -53.767  1.00 53.20      A16S
ATOM  13636  C4* C   A 656     142.934 112.004 -54.750  1.00 53.20      A16S
ATOM  13637  O4* C   A 656     141.663 112.478 -54.236  1.00 53.20      A16S
ATOM  13638  C1* C   A 656     140.824 112.844 -55.319  1.00 53.20      A16S
ATOM  13639  N1  C   A 656     140.580 114.293 -55.274  1.00 56.36      A16S
ATOM  13640  C6  C   A 656     141.319 115.111 -54.470  1.00 56.36      A16S
ATOM  13641  C2  C   A 656     139.595 114.833 -56.115  1.00 56.36      A16S
ATOM  13642  O2  C   A 656     138.900 114.067 -56.798  1.00 56.36      A16S
ATOM  13643  N3  C   A 656     139.427 116.170 -56.163  1.00 56.36      A16S
ATOM  13644  C4  C   A 656     140.187 116.960 -55.410  1.00 56.36      A16S
ATOM  13645  N4  C   A 656     140.023 118.274 -55.530  1.00 56.36      A16S
ATOM  13646  C5  C   A 656     141.159 116.438 -54.509  1.00 56.36      A16S
ATOM  13647  C2* C   A 656     141.594 112.532 -56.597  1.00 53.20      A16S
ATOM  13648  O2* C   A 656     141.292 111.212 -56.995  1.00 53.20      A16S
ATOM  13649  C3* C   A 656     143.029 112.656 -56.115  1.00 53.20      A16S
ATOM  13650  O3* C   A 656     143.946 112.020 -56.989  1.00 53.20      A16S
ATOM  13651  P   G   A 657     144.752 112.909 -58.064  1.00 51.58      A16S
ATOM  13652  O1P G   A 657     145.783 112.010 -58.661  1.00 47.61      A16S
ATOM  13653  O2P G   A 657     145.149 114.226 -57.487  1.00 47.61      A16S
ATOM  13654  O5* G   A 657     143.663 113.237 -59.166  1.00 51.58      A16S
ATOM  13655  C5* G   A 657     142.964 112.182 -59.813  1.00 51.58      A16S
ATOM  13656  C4* G   A 657     141.907 112.753 -60.702  1.00 51.58      A16S
ATOM  13657  O4* G   A 657     140.925 113.448 -59.894  1.00 51.58      A16S
ATOM  13658  C1* G   A 657     140.421 114.552 -60.614  1.00 51.58      A16S
ATOM  13659  N9  G   A 657     140.802 115.776 -59.924  1.00 47.61      A16S
ATOM  13660  C4  G   A 657     140.361 117.032 -60.241  1.00 47.61      A16S
ATOM  13661  N3  G   A 657     139.464 117.330 -61.195  1.00 47.61      A16S
ATOM  13662  C2  G   A 657     139.266 118.624 -61.293  1.00 47.61      A16S
ATOM  13663  N2  G   A 657     138.392 119.082 -62.187  1.00 47.61      A16S
ATOM  13664  N1  G   A 657     139.906 119.563 -60.524  1.00 47.61      A16S
ATOM  13665  C6  G   A 657     140.841 119.279 -59.540  1.00 47.61      A16S
ATOM  13666  O6  G   A 657     141.380 120.198 -58.919  1.00 47.61      A16S
ATOM  13667  C5  G   A 657     141.049 117.884 -59.410  1.00 47.61      A16S
ATOM  13668  N7  G   A 657     141.879 117.172 -58.556  1.00 47.61      A16S
ATOM  13669  C8  G   A 657     141.691 115.924 -58.892  1.00 47.61      A16S
ATOM  13670  C2* G   A 657     141.094 114.545 -61.983  1.00 51.58      A16S
ATOM  13671  O2* G   A 657     140.306 113.835 -62.918  1.00 51.58      A16S
ATOM  13672  C3* G   A 657     142.383 113.814 -61.673  1.00 51.58      A16S
ATOM  13673  O3* G   A 657     142.976 113.290 -62.839  1.00 51.58      A16S
ATOM  13674  P   G   A 658     143.853 114.258 -63.767  1.00 49.29      A16S
ATOM  13675  O1P G   A 658     144.360 113.437 -64.902  1.00 48.35      A16S
ATOM  13676  O2P G   A 658     144.817 114.985 -62.897  1.00 48.35      A16S
ATOM  13677  O5* G   A 658     142.797 115.325 -64.312  1.00 49.29      A16S
ATOM  13678  C5* G   A 658     141.725 114.937 -65.203  1.00 49.29      A16S
ATOM  13679  C4* G   A 658     141.088 116.163 -65.812  1.00 49.29      A16S
ATOM  13680  O4* G   A 658     140.461 116.947 -64.770  1.00 49.29      A16S
ATOM  13681  C1* G   A 658     140.657 118.328 -65.021  1.00 49.29      A16S
ATOM  13682  N9  G   A 658     141.453 118.859 -63.925  1.00 48.35      A16S
ATOM  13683  C4  G   A 658     141.701 120.179 -63.640  1.00 48.35      A16S
ATOM  13684  N3  G   A 658     141.251 121.240 -64.336  1.00 48.35      A16S
ATOM  13685  C2  G   A 658     141.663 122.381 -63.808  1.00 48.35      A16S
ATOM  13686  N2  G   A 658     141.300 123.558 -64.360  1.00 48.35      A16S
ATOM  13687  N1  G   A 658     142.459 122.458 -62.696  1.00 48.35      A16S
ATOM  13688  C6  G   A 658     142.928 121.373 -61.975  1.00 48.35      A16S
ATOM  13689  O6  G   A 658     143.639 121.551 -60.991  1.00 48.35      A16S
ATOM  13690  C5  G   A 658     142.492 120.165 -62.517  1.00 48.35      A16S
ATOM  13691  N7  G   A 658     142.737 118.869 -62.103  1.00 48.35      A16S
ATOM  13692  C8  G   A 658     142.106 118.129 -62.968  1.00 48.35      A16S
ATOM  13693  C2* G   A 658     141.375 118.464 -66.360  1.00 49.29      A16S
ATOM  13694  O2* G   A 658     140.442 118.684 -67.398  1.00 49.29      A16S
ATOM  13695  C3* G   A 658     142.071 117.119 -66.462  1.00 49.29      A16S
ATOM  13696  O3* G   A 658     142.345 116.762 -67.795  1.00 49.29      A16S
ATOM  13697  P   U   A 659     143.784 117.088 -68.402  1.00 61.58      A16S
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ATOM  13698  O1P U   A 659     143.810 116.453 -69.741  1.00 53.38      A16S
ATOM  13699  O2P U   A 659     144.832 116.754 -67.403  1.00 53.38      A16S
ATOM  13700  O5* U   A 659     143.776 118.666 -68.560  1.00 61.58      A16S
ATOM  13701  C5* U   A 659     142.906 119.275 -69.500  1.00 61.58      A16S
ATOM  13702  C4* U   A 659     143.046 120.767 -69.443  1.00 61.58      A16S
ATOM  13703  O4* U   A 659     142.602 121.252 -68.153  1.00 61.58      A16S
ATOM  13704  C1* U   A 659     143.380 122.370 -67.771  1.00 61.58      A16S
ATOM  13705  N1  U   A 659     144.056 122.028 -66.518  1.00 53.38      A16S
ATOM  13706  C6  U   A 659     144.375 120.730 -66.217  1.00 53.38      A16S
ATOM  13707  C2  U   A 659     144.356 123.052 -65.658  1.00 53.38      A16S
ATOM  13708  O2  U   A 659     144.093 124.215 -65.901  1.00 53.38      A16S
ATOM  13709  N3  U   A 659     144.973 122.668 -64.498  1.00 53.38      A16S
ATOM  13710  C4  U   A 659     145.306 121.388 -64.125  1.00 53.38      A16S
ATOM  13711  O4  U   A 659     145.776 121.187 -63.007  1.00 53.38      A16S
ATOM  13712  C5  U   A 659     144.972 120.384 -65.083  1.00 53.38      A16S
ATOM  13713  C2* U   A 659     144.367 122.660 -68.901  1.00 61.58      A16S
ATOM  13714  O2* U   A 659     143.858 123.694 -69.728  1.00 61.58      A16S
ATOM  13715  C3* U   A 659     144.456 121.295 -69.576  1.00 61.58      A16S
ATOM  13716  O3* U   A 659     144.860 121.351 -70.924  1.00 61.58      A16S
ATOM  13717  P   G   A 660     146.396 121.094 -71.283  1.00 67.28      A16S
ATOM  13718  O1P G   A 660     146.479 121.122 -72.766  1.00 59.90      A16S
ATOM  13719  O2P G   A 660     146.872 119.904 -70.543  1.00 59.90      A16S
ATOM  13720  O5* G   A 660     147.120 122.372 -70.686  1.00 67.28      A16S
ATOM  13721  C5* G   A 660     146.695 123.664 -71.093  1.00 67.28      A16S
ATOM  13722  C4* G   A 660     147.314 124.711 -70.224  1.00 67.28      A16S
ATOM  13723  O4* G   A 660     146.794 124.614 -68.880  1.00 67.28      A16S
ATOM  13724  C1* G   A 660     147.771 125.080 -67.967  1.00 67.28      A16S
ATOM  13725  N9  G   A 660     147.984 124.066 -66.946  1.00 59.90      A16S
ATOM  13726  C4  G   A 660     148.589 124.267 -65.736  1.00 59.90      A16S
ATOM  13727  N3  G   A 660     149.099 125.430 -65.294  1.00 59.90      A16S
ATOM  13728  C2  G   A 660     149.620 125.317 -64.088  1.00 59.90      A16S
ATOM  13729  N2  G   A 660     150.164 126.386 -63.491  1.00 59.90      A16S
ATOM  13730  N1  G   A 660     149.646 124.151 -63.375  1.00 59.90      A16S
ATOM  13731  C6  G   A 660     149.140 122.935 -63.815  1.00 59.90      A16S
ATOM  13732  O6  G   A 660     149.238 121.932 -63.097  1.00 59.90      A16S
ATOM  13733  C5  G   A 660     148.564 123.047 -65.108  1.00 59.90      A16S
ATOM  13734  N7  G   A 660     147.956 122.091 -65.912  1.00 59.90      A16S
ATOM  13735  C8  G   A 660     147.630 122.742 -66.992  1.00 59.90      A16S
ATOM  13736  C2* G   A 660     149.043 125.400 -68.752  1.00 67.28      A16S
ATOM  13737  O2* G   A 660     149.147 126.802 -68.922  1.00 67.28      A16S
ATOM  13738  C3* G   A 660     148.814 124.623 -70.048  1.00 67.28      A16S
ATOM  13739  O3* G   A 660     149.487 125.182 -71.161  1.00 67.28      A16S
ATOM  13740  P   G   A 661     151.064 124.970 -71.311  1.00 77.61      A16S
ATOM  13741  O1P G   A 661     151.466 125.724 -72.522  1.00 55.31      A16S
ATOM  13742  O2P G   A 661     151.395 123.520 -71.201  1.00 55.31      A16S
ATOM  13743  O5* G   A 661     151.636 125.740 -70.045  1.00 77.61      A16S
ATOM  13744  C5* G   A 661     152.909 125.413 -69.498  1.00 77.61      A16S
ATOM  13745  C4* G   A 661     153.313 126.439 -68.468  1.00 77.61      A16S
ATOM  13746  O4* G   A 661     152.291 126.549 -67.437  1.00 77.61      A16S
ATOM  13747  C1* G   A 661     152.886 126.436 -66.151  1.00 77.61      A16S
ATOM  13748  N9  G   A 661     152.628 125.077 -65.663  1.00 55.31      A16S
ATOM  13749  C4  G   A 661     152.997 124.552 -64.443  1.00 55.31      A16S
ATOM  13750  N3  G   A 661     153.648 125.207 -63.462  1.00 55.31      A16S
ATOM  13751  C2  G   A 661     153.869 124.436 -62.414  1.00 55.31      A16S
ATOM  13752  N2  G   A 661     154.492 124.947 -61.348  1.00 55.31      A16S
ATOM  13753  N1  G   A 661     153.489 123.117 -62.331  1.00 55.31      A16S
ATOM  13754  C6  G   A 661     152.818 122.418 -63.326  1.00 55.31      A16S
ATOM  13755  O6  G   A 661     152.513 121.232 -63.151  1.00 55.31      A16S
ATOM  13756  C5  G   A 661     152.571 123.239 -64.464  1.00 55.31      A16S
ATOM  13757  N7  G   A 661     151.945 122.944 -65.669  1.00 55.31      A16S
ATOM  13758  C8  G   A 661     151.995 124.059 -66.343  1.00 55.31      A16S
ATOM  13759  C2* G   A 661     154.385 126.670 -66.359  1.00 77.61      A16S
ATOM  13760  O2* G   A 661     154.699 128.047 -66.335  1.00 77.61      A16S
ATOM  13761  C3* G   A 661     154.573 126.043 -67.729  1.00 77.61      A16S
ATOM  13762  O3* G   A 661     155.734 126.416 -68.432  1.00 77.61      A16S
ATOM  13763  P   G   A 662     156.866 125.311 -68.691  1.00 70.27      A16S
ATOM  13764  O1P G   A 662     157.787 125.913 -69.695  1.00 47.17      A16S
ATOM  13765  O2P G   A 662     156.254 123.968 -68.953  1.00 47.17      A16S
ATOM  13766  O5* G   A 662     157.583 125.207 -67.275  1.00 70.27      A16S
ATOM  13767  C5* G   A 662     157.849 126.392 -66.522  1.00 70.27      A16S
ATOM  13768  C4* G   A 662     158.351 126.048 -65.149  1.00 70.27      A16S
ATOM  13769  O4* G   A 662     157.288 125.517 -64.324  1.00 70.27      A16S
ATOM  13770  C1* G   A 662     157.845 124.670 -63.340  1.00 70.27      A16S
ATOM  13771  N9  G   A 662     157.177 123.372 -63.380  1.00 47.17      A16S
ATOM  13772  C4  G   A 662     157.134 122.441 -62.364  1.00 47.17      A16S
ATOM  13773  N3  G   A 662     157.685 122.571 -61.136  1.00 47.17      A16S
ATOM  13774  C2  G   A 662     157.479 121.496 -60.389  1.00 47.17      A16S
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ATOM  13775  N2  G   A 662     157.939 121.438 -59.127  1.00 47.17      A16S
ATOM  13776  N1  G   A 662     156.803 120.391 -60.819  1.00 47.17      A16S
ATOM  13777  C6  G   A 662     156.236 120.238 -62.076  1.00 47.17      A16S
ATOM  13778  O6  G   A 662     155.651 119.191 -62.362  1.00 47.17      A16S
ATOM  13779  C5  G   A 662     156.435 121.375 -62.879  1.00 47.17      A16S
ATOM  13780  N7  G   A 662     156.035 121.628 -64.180  1.00 47.17      A16S
ATOM  13781  C8  G   A 662     156.490 122.824 -64.433  1.00 47.17      A16S
ATOM  13782  C2* G   A 662     159.347 124.572 -63.610  1.00 70.27      A16S
ATOM  13783  O2* G   A 662     160.023 125.466 -62.752  1.00 70.27      A16S
ATOM  13784  C3* G   A 662     159.443 125.006 -65.066  1.00 70.27      A16S
ATOM  13785  O3* G   A 662     160.709 125.567 -65.369  1.00 70.27      A16S
ATOM  13786  P   A   A 663     161.904 124.615 -65.878  1.00 60.55      A16S
ATOM  13787  O1P A   A 663     162.867 125.502 -66.566  1.00 36.15      A16S
ATOM  13788  O2P A   A 663     161.358 123.426 -66.591  1.00 36.15      A16S
ATOM  13789  O5* A   A 663     162.606 124.133 -64.540  1.00 60.55      A16S
ATOM  13790  C5* A   A 663     163.224 125.089 -63.675  1.00 60.55      A16S
ATOM  13791  C4* A   A 663     163.563 124.453 -62.354  1.00 60.55      A16S
ATOM  13792  O4* A   A 663     162.345 124.097 -61.654  1.00 60.55      A16S
ATOM  13793  C1* A   A 663     162.527 122.874 -60.964  1.00 60.55      A16S
ATOM  13794  N9  A   A 663     161.641 121.879 -61.567  1.00 36.15      A16S
ATOM  13795  C4  A   A 663     161.254 120.678 -61.018  1.00 36.15      A16S
ATOM  13796  N3  A   A 663     161.595 120.182 -59.818  1.00 36.15      A16S
ATOM  13797  C2  A   A 663     161.045 118.985 -59.635  1.00 36.15      A16S
ATOM  13798  N1  A   A 663     160.253 118.281 -60.454  1.00 36.15      A16S
ATOM  13799  C6  A   A 663     159.931 118.806 -61.649  1.00 36.15      A16S
ATOM  13800  N6  A   A 663     159.151 118.097 -62.458  1.00 36.15      A16S
ATOM  13801  C5  A   A 663     160.447 120.073 -61.964  1.00 36.15      A16S
ATOM  13802  N7  A   A 663     160.315 120.883 -63.082  1.00 36.15      A16S
ATOM  13803  C8  A   A 663     161.040 121.936 -62.796  1.00 36.15      A16S
ATOM  13804  C2* A   A 663     163.992 122.477 -61.129  1.00 60.55      A16S
ATOM  13805  O2* A   A 663     164.734 123.000 -60.044  1.00 60.55      A16S
ATOM  13806  C3* A   A 663     164.338 123.152 -62.446  1.00 60.55      A16S
ATOM  13807  O3* A   A 663     165.730 123.359 -62.616  1.00 60.55      A16S
ATOM  13808  P   G   A 664     166.597 122.231 -63.347  1.00 52.20      A16S
ATOM  13809  O1P G   A 664     168.007 122.660 -63.386  1.00 41.26      A16S
ATOM  13810  O2P G   A 664     165.898 121.884 -64.608  1.00 41.26      A16S
ATOM  13811  O5* G   A 664     166.501 121.011 -62.334  1.00 52.20      A16S
ATOM  13812  C5* G   A 664     166.896 121.192 -60.971  1.00 52.20      A16S
ATOM  13813  C4* G   A 664     166.744 119.914 -60.203  1.00 52.20      A16S
ATOM  13814  O4* G   A 664     165.353 119.594 -59.998  1.00 52.20      A16S
ATOM  13815  C1* G   A 664     165.202 118.193 -59.892  1.00 52.20      A16S
ATOM  13816  N9  G   A 664     164.209 117.753 -60.860  1.00 41.26      A16S
ATOM  13817  C4  G   A 664     163.370 116.660 -60.753  1.00 41.26      A16S
ATOM  13818  N3  G   A 664     163.284 115.809 -59.700  1.00 41.26      A16S
ATOM  13819  C2  G   A 664     162.428 114.818 -59.932  1.00 41.26      A16S
ATOM  13820  N2  G   A 664     162.217 113.866 -59.011  1.00 41.26      A16S
ATOM  13821  N1  G   A 664     161.720 114.685 -61.092  1.00 41.26      A16S
ATOM  13822  C6  G   A 664     161.793 115.547 -62.180  1.00 41.26      A16S
ATOM  13823  O6  G   A 664     161.127 115.320 -63.184  1.00 41.26      A16S
ATOM  13824  C5  G   A 664     162.692 116.608 -61.949  1.00 41.26      A16S
ATOM  13825  N7  G   A 664     163.055 117.665 -62.768  1.00 41.26      A16S
ATOM  13826  C8  G   A 664     163.950 118.319 -62.079  1.00 41.26      A16S
ATOM  13827  C2* G   A 664     166.567 117.560 -60.152  1.00 52.20      A16S
ATOM  13828  O2* G   A 664     167.145 117.232 -58.907  1.00 52.20      A16S
ATOM  13829  C3* G   A 664     167.306 118.684 -60.871  1.00 52.20      A16S
ATOM  13830  O3* G   A 664     168.715 118.640 -60.684  1.00 52.20      A16S
ATOM  13831  P   A   A 665     169.666 118.126 -61.878  1.00 58.19      A16S
ATOM  13832  O1P A   A 665     170.589 119.243 -62.194  1.00 34.97      A16S
ATOM  13833  O2P A   A 665     168.856 117.509 -62.971  1.00 34.97      A16S
ATOM  13834  O5* A   A 665     170.503 116.965 -61.190  1.00 58.19      A16S
ATOM  13835  C5* A   A 665     170.951 115.868 -61.969  1.00 58.19      A16S
ATOM  13836  C4* A   A 665     171.145 114.645 -61.114  1.00 58.19      A16S
ATOM  13837  O4* A   A 665     172.387 114.698 -60.369  1.00 58.19      A16S
ATOM  13838  C1* A   A 665     172.305 113.798 -59.293  1.00 58.19      A16S
ATOM  13839  N9  A   A 665     172.760 114.457 -58.073  1.00 34.97      A16S
ATOM  13840  C4  A   A 665     173.420 113.825 -57.047  1.00 34.97      A16S
ATOM  13841  N3  A   A 665     173.777 112.531 -56.981  1.00 34.97      A16S
ATOM  13842  C2  A   A 665     174.400 112.273 -55.832  1.00 34.97      A16S
ATOM  13843  N1  A   A 665     174.670 113.087 -54.818  1.00 34.97      A16S
ATOM  13844  C6  A   A 665     174.282 114.374 -54.908  1.00 34.97      A16S
ATOM  13845  N6  A   A 665     174.517 115.173 -53.880  1.00 34.97      A16S
ATOM  13846  C5  A   A 665     173.637 114.789 -56.081  1.00 34.97      A16S
ATOM  13847  N7  A   A 665     173.140 116.019 -56.492  1.00 34.97      A16S
ATOM  13848  C8  A   A 665     172.629 115.769 -57.680  1.00 34.97      A16S
ATOM  13849  C2* A   A 665     170.863 113.294 -59.225  1.00 58.19      A16S
ATOM  13850  O2* A   A 665     170.827 112.038 -59.869  1.00 58.19      A16S
ATOM  13851  C3* A   A 665     170.114 114.327 -60.057  1.00 58.19      A16S
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ATOM  13852  O3*  A   A 665     168.940 113.761 -60.625  1.00 58.19      A16S
ATOM  13853  P    G   A 666     167.511 114.026 -59.930  1.00 47.80      A16S
ATOM  13854  O1P  G   A 666     166.576 114.467 -60.986  1.00 37.71      A16S
ATOM  13855  O2P  G   A 666     167.711 114.873 -58.737  1.00 37.71      A16S
ATOM  13856  O5*  G   A 666     167.025 112.578 -59.473  1.00 47.80      A16S
ATOM  13857  C5*  G   A 666     167.239 112.113 -58.128  1.00 47.80      A16S
ATOM  13858  C4*  G   A 666     166.407 110.883 -57.851  1.00 47.80      A16S
ATOM  13859  O4*  G   A 666     165.006 111.202 -58.063  1.00 47.80      A16S
ATOM  13860  C1*  G   A 666     164.328 110.082 -58.612  1.00 47.80      A16S
ATOM  13861  N9   G   A 666     163.884 110.425 -59.965  1.00 37.71      A16S
ATOM  13862  C4   G   A 666     163.151 109.621 -60.814  1.00 37.71      A16S
ATOM  13863  N3   G   A 666     162.656 108.404 -60.521  1.00 37.71      A16S
ATOM  13864  C2   G   A 666     162.026 107.871 -61.544  1.00 37.71      A16S
ATOM  13865  N2   G   A 666     161.457 106.666 -61.418  1.00 37.71      A16S
ATOM  13866  N1   G   A 666     161.908 108.475 -62.758  1.00 37.71      A16S
ATOM  13867  C6   G   A 666     162.428 109.716 -63.083  1.00 37.71      A16S
ATOM  13868  O6   G   A 666     162.309 110.144 -64.221  1.00 37.71      A16S
ATOM  13869  C5   G   A 666     163.072 110.313 -61.994  1.00 37.71      A16S
ATOM  13870  N7   G   A 666     163.690 111.550 -61.886  1.00 37.71      A16S
ATOM  13871  C8   G   A 666     164.150 111.577 -60.666  1.00 37.71      A16S
ATOM  13872  C2*  G   A 666     165.331 108.932 -58.655  1.00 47.80      A16S
ATOM  13873  O2*  G   A 666     165.213 108.162 -57.477  1.00 47.80      A16S
ATOM  13874  C3*  G   A 666     166.648 109.688 -58.755  1.00 47.80      A16S
ATOM  13875  O3*  G   A 666     167.770 108.906 -58.386  1.00 47.80      A16S
ATOM  13876  P    G   A 667     168.582 108.119 -59.532  1.00 49.97      A16S
ATOM  13877  O1P  G   A 667     169.713 107.404 -58.882  1.00 34.39      A16S
ATOM  13878  O2P  G   A 667     168.858 109.051 -60.658  1.00 34.39      A16S
ATOM  13879  O5*  G   A 667     167.540 107.022 -60.018  1.00 49.97      A16S
ATOM  13880  C5*  G   A 667     167.069 106.037 -59.097  1.00 49.97      A16S
ATOM  13881  C4*  G   A 667     166.165 105.065 -59.791  1.00 49.97      A16S
ATOM  13882  O4*  G   A 667     165.033 105.796 -60.296  1.00 49.97      A16S
ATOM  13883  C1*  G   A 667     164.593 105.215 -61.506  1.00 49.97      A16S
ATOM  13884  N9   G   A 667     164.717 106.213 -62.559  1.00 34.39      A16S
ATOM  13885  C4   G   A 667     164.214 106.105 -63.823  1.00 34.39      A16S
ATOM  13886  N3   G   A 667     163.533 105.052 -64.309  1.00 34.39      A16S
ATOM  13887  C2   G   A 667     163.162 105.241 -65.556  1.00 34.39      A16S
ATOM  13888  N2   G   A 667     162.474 104.287 -66.197  1.00 34.39      A16S
ATOM  13889  N1   G   A 667     163.437 106.377 -66.271  1.00 34.39      A16S
ATOM  13890  C6   G   A 667     164.145 107.472 -65.791  1.00 34.39      A16S
ATOM  13891  O6   G   A 667     164.355 108.444 -66.528  1.00 34.39      A16S
ATOM  13892  C5   G   A 667     164.544 107.281 -64.450  1.00 34.39      A16S
ATOM  13893  N7   G   A 667     165.251 108.115 -63.594  1.00 34.39      A16S
ATOM  13894  C8   G   A 667     165.336 107.436 -62.486  1.00 34.39      A16S
ATOM  13895  C2*  G   A 667     165.461 103.992 -61.774  1.00 49.97      A16S
ATOM  13896  O2*  G   A 667     164.832 102.856 -61.214  1.00 49.97      A16S
ATOM  13897  C3*  G   A 667     166.721 104.355 -61.014  1.00 49.97      A16S
ATOM  13898  O3*  G   A 667     167.457 103.193 -60.693  1.00 49.97      A16S
ATOM  13899  P    G   A 668     168.630 102.715 -61.673  1.00 38.92      A16S
ATOM  13900  O1P  G   A 668     169.315 101.594 -60.977  1.00 41.17      A16S
ATOM  13901  O2P  G   A 668     169.397 103.932 -62.045  1.00 41.17      A16S
ATOM  13902  O5*  G   A 668     167.867 102.147 -62.958  1.00 38.92      A16S
ATOM  13903  C5*  G   A 668     167.069 100.951 -62.849  1.00 38.92      A16S
ATOM  13904  C4*  G   A 668     166.437 100.588 -64.173  1.00 38.92      A16S
ATOM  13905  O4*  G   A 668     165.455 101.579 -64.552  1.00 38.92      A16S
ATOM  13906  C1*  G   A 668     165.400 101.688 -65.961  1.00 38.92      A16S
ATOM  13907  N9   G   A 668     165.824 103.034 -66.325  1.00 41.17      A16S
ATOM  13908  C4   G   A 668     165.708 103.623 -67.563  1.00 41.17      A16S
ATOM  13909  N3   G   A 668     165.176 103.056 -68.662  1.00 41.17      A16S
ATOM  13910  C2   G   A 668     165.205 103.871 -69.704  1.00 41.17      A16S
ATOM  13911  N2   G   A 668     164.714 103.457 -70.881  1.00 41.17      A16S
ATOM  13912  N1   G   A 668     165.716 105.144 -69.668  1.00 41.17      A16S
ATOM  13913  C6   G   A 668     166.271 105.746 -68.547  1.00 41.17      A16S
ATOM  13914  O6   G   A 668     166.708 106.892 -68.622  1.00 41.17      A16S
ATOM  13915  C5   G   A 668     166.246 104.882 -67.422  1.00 41.17      A16S
ATOM  13916  N7   G   A 668     166.692 105.085 -66.122  1.00 41.17      A16S
ATOM  13917  C8   G   A 668     166.423 103.965 -65.509  1.00 41.17      A16S
ATOM  13918  C2*  G   A 668     166.352 100.643 -66.525  1.00 38.92      A16S
ATOM  13919  O2*  G   A 668     165.637  99.444 -66.722  1.00 38.92      A16S
ATOM  13920  C3*  G   A 668     167.341 100.486 -65.384  1.00 38.92      A16S
ATOM  13921  O3*  G   A 668     167.992  99.230 -65.460  1.00 38.92      A16S
ATOM  13922  P    U   A 669     169.430  99.130 -66.166  1.00 42.17      A16S
ATOM  13923  O1P  U   A 669     169.875  97.733 -65.994  1.00 38.54      A16S
ATOM  13924  O2P  U   A 669     170.278 100.242 -65.668  1.00 38.54      A16S
ATOM  13925  O5*  U   A 669     169.107  99.371 -67.706  1.00 42.17      A16S
ATOM  13926  C5*  U   A 669     168.428  98.360 -68.474  1.00 42.17      A16S
ATOM  13927  C4*  U   A 669     168.335  98.759 -69.935  1.00 42.17      A16S
ATOM  13928  O4*  U   A 669     167.463  99.905 -70.094  1.00 42.17      A16S
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ATOM  13929  C1* U   A 669     167.902 100.687 -71.182  1.00 42.17      A16S
ATOM  13930  N1  U   A 669     168.247 102.006 -70.665  1.00 38.54      A16S
ATOM  13931  C6  U   A 669     168.617 102.172 -69.360  1.00 38.54      A16S
ATOM  13932  C2  U   A 669     168.187 103.071 -71.536  1.00 38.54      A16S
ATOM  13933  O2  U   A 669     167.872 102.947 -72.710  1.00 38.54      A16S
ATOM  13934  N3  U   A 669     168.512 104.289 -70.984  1.00 38.54      A16S
ATOM  13935  C4  U   A 669     168.886 104.530 -69.673  1.00 38.54      A16S
ATOM  13936  O4  U   A 669     169.096 105.687 -69.297  1.00 38.54      A16S
ATOM  13937  C5  U   A 669     168.931 103.362 -68.847  1.00 38.54      A16S
ATOM  13938  C2* U   A 669     169.115 100.001 -71.799  1.00 42.17      A16S
ATOM  13939  O2* U   A 669     168.677  99.206 -72.881  1.00 42.17      A16S
ATOM  13940  C3* U   A 669     169.621  99.169 -70.631  1.00 42.17      A16S
ATOM  13941  O3* U   A 669     170.360  98.047 -71.070  1.00 42.17      A16S
ATOM  13942  P   G   A 670     171.935  98.194 -71.308  1.00 43.21      A16S
ATOM  13943  O1P G   A 670     172.393  96.814 -71.595  1.00 50.42      A16S
ATOM  13944  O2P G   A 670     172.546  98.954 -70.201  1.00 50.42      A16S
ATOM  13945  O5* G   A 670     172.036  99.087 -72.620  1.00 43.21      A16S
ATOM  13946  C5* G   A 670     171.515  98.589 -73.865  1.00 43.21      A16S
ATOM  13947  C4* G   A 670     171.390  99.694 -74.879  1.00 43.21      A16S
ATOM  13948  O4* G   A 670     170.603 100.769 -74.319  1.00 43.21      A16S
ATOM  13949  C1* G   A 670     171.017 101.999 -74.877  1.00 43.21      A16S
ATOM  13950  N9  G   A 670     171.355 102.915 -73.799  1.00 50.42      A16S
ATOM  13951  C4  G   A 670     171.603 104.245 -73.953  1.00 50.42      A16S
ATOM  13952  N3  G   A 670     171.569 104.920 -75.119  1.00 50.42      A16S
ATOM  13953  C2  G   A 670     171.841 106.200 -74.957  1.00 50.42      A16S
ATOM  13954  N2  G   A 670     171.821 107.024 -76.009  1.00 50.42      A16S
ATOM  13955  N1  G   A 670     172.147 106.765 -73.752  1.00 50.42      A16S
ATOM  13956  C6  G   A 670     172.211 106.082 -72.541  1.00 50.42      A16S
ATOM  13957  O6  G   A 670     172.537 106.684 -71.515  1.00 50.42      A16S
ATOM  13958  C5  G   A 670     171.888 104.714 -72.696  1.00 50.42      A16S
ATOM  13959  N7  G   A 670     171.810 103.695 -71.761  1.00 50.42      A16S
ATOM  13960  C8  G   A 670     171.493 102.643 -72.463  1.00 50.42      A16S
ATOM  13961  C2* G   A 670     172.195 101.730 -75.811  1.00 43.21      A16S
ATOM  13962  O2* G   A 670     171.751 101.749 -77.159  1.00 43.21      A16S
ATOM  13963  C3* G   A 670     172.675 100.375 -75.303  1.00 43.21      A16S
ATOM  13964  O3* G   A 670     173.368  99.626 -76.278  1.00 43.21      A16S
ATOM  13965  P   G   A 671     174.965  99.522 -76.190  1.00 50.56      A16S
ATOM  13966  O1P G   A 671     175.377  99.009 -77.519  1.00 52.33      A16S
ATOM  13967  O2P G   A 671     175.376  98.783 -74.966  1.00 52.33      A16S
ATOM  13968  O5* G   A 671     175.404 101.042 -76.024  1.00 50.56      A16S
ATOM  13969  C5* G   A 671     176.255 101.674 -76.978  1.00 50.56      A16S
ATOM  13970  C4* G   A 671     175.583 102.896 -77.534  1.00 50.56      A16S
ATOM  13971  O4* G   A 671     174.610 103.381 -76.585  1.00 50.56      A16S
ATOM  13972  C1* G   A 671     174.645 104.800 -76.543  1.00 50.56      A16S
ATOM  13973  N9  G   A 671     175.015 105.212 -75.192  1.00 52.33      A16S
ATOM  13974  C4  G   A 671     175.271 106.492 -74.782  1.00 52.33      A16S
ATOM  13975  N3  G   A 671     175.228 107.593 -75.559  1.00 52.33      A16S
ATOM  13976  C2  G   A 671     175.507 108.690 -74.876  1.00 52.33      A16S
ATOM  13977  N2  G   A 671     175.504 109.877 -75.499  1.00 52.33      A16S
ATOM  13978  N1  G   A 671     175.809 108.701 -73.536  1.00 52.33      A16S
ATOM  13979  C6  G   A 671     175.863 107.573 -72.722  1.00 52.33      A16S
ATOM  13980  O6  G   A 671     176.145 107.688 -71.528  1.00 52.33      A16S
ATOM  13981  C5  G   A 671     175.565 106.396 -73.442  1.00 52.33      A16S
ATOM  13982  N7  G   A 671     175.503 105.078 -73.018  1.00 52.33      A16S
ATOM  13983  C8  G   A 671     175.174 104.412 -74.087  1.00 52.33      A16S
ATOM  13984  C2* G   A 671     175.647 105.280 -77.595  1.00 50.56      A16S
ATOM  13985  O2* G   A 671     174.972 105.674 -78.775  1.00 50.56      A16S
ATOM  13986  C3* G   A 671     176.539 104.054 -77.740  1.00 50.56      A16S
ATOM  13987  O3* G   A 671     177.219 103.964 -78.973  1.00 50.56      A16S
ATOM  13988  P   U   A 672     178.810 103.795 -78.971  1.00 48.53      A16S
ATOM  13989  O1P U   A 672     179.230 103.716 -80.394  1.00 57.03      A16S
ATOM  13990  O2P U   A 672     179.166 102.695 -78.032  1.00 57.03      A16S
ATOM  13991  O5* U   A 672     179.331 105.176 -78.383  1.00 48.53      A16S
ATOM  13992  C5* U   A 672     179.153 106.368 -79.135  1.00 48.53      A16S
ATOM  13993  C4* U   A 672     179.102 107.564 -78.227  1.00 48.53      A16S
ATOM  13994  O4* U   A 672     178.237 107.269 -77.106  1.00 48.53      A16S
ATOM  13995  C1* U   A 672     178.649 108.029 -75.982  1.00 48.53      A16S
ATOM  13996  N1  U   A 672     178.833 107.139 -74.826  1.00 57.03      A16S
ATOM  13997  C6  U   A 672     178.704 105.779 -74.931  1.00 57.03      A16S
ATOM  13998  C2  U   A 672     179.134 107.733 -73.619  1.00 57.03      A16S
ATOM  13999  O2  U   A 672     179.270 108.932 -73.490  1.00 57.03      A16S
ATOM  14000  N3  U   A 672     179.272 106.873 -72.568  1.00 57.03      A16S
ATOM  14001  C4  U   A 672     179.148 105.505 -72.597  1.00 57.03      A16S
ATOM  14002  O4  U   A 672     179.297 104.860 -71.552  1.00 57.03      A16S
ATOM  14003  C5  U   A 672     178.845 104.963 -73.889  1.00 57.03      A16S
ATOM  14004  C2* U   A 672     179.911 108.800 -76.367  1.00 48.53      A16S
ATOM  14005  O2* U   A 672     179.572 110.140 -76.674  1.00 48.53      A16S
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ATOM  14006  C3* U   A 672     180.399 108.010 -77.575  1.00 48.53      A16S
ATOM  14007  O3* U   A 672     181.184 108.827 -78.429  1.00 48.53      A16S
ATOM  14008  P   G   A 673     182.776 108.861 -78.236  1.00 65.20      A16S
ATOM  14009  O1P G   A 673     183.363 109.228 -79.551  1.00 40.29      A16S
ATOM  14010  O2P G   A 673     183.194 107.596 -77.567  1.00 40.29      A16S
ATOM  14011  O5* G   A 673     183.013 110.077 -77.241  1.00 65.20      A16S
ATOM  14012  C5* G   A 673     182.866 111.423 -77.703  1.00 65.20      A16S
ATOM  14013  C4* G   A 673     183.315 112.383 -76.640  1.00 65.20      A16S
ATOM  14014  O4* G   A 673     182.441 112.252 -75.499  1.00 65.20      A16S
ATOM  14015  C1* G   A 673     183.184 112.393 -74.311  1.00 65.20      A16S
ATOM  14016  N9  G   A 673     183.047 111.153 -73.561  1.00 40.29      A16S
ATOM  14017  C4  G   A 673     183.139 111.004 -72.198  1.00 40.29      A16S
ATOM  14018  N3  G   A 673     183.382 111.988 -71.307  1.00 40.29      A16S
ATOM  14019  C2  G   A 673     183.427 111.528 -70.074  1.00 40.29      A16S
ATOM  14020  N2  G   A 673     183.675 112.370 -69.070  1.00 40.29      A16S
ATOM  14021  N1  G   A 673     183.239 110.208 -69.742  1.00 40.29      A16S
ATOM  14022  C6  G   A 673     182.990 109.185 -70.647  1.00 40.29      A16S
ATOM  14023  O6  G   A 673     182.851 108.032 -70.253  1.00 40.29      A16S
ATOM  14024  C5  G   A 673     182.941 109.661 -71.964  1.00 40.29      A16S
ATOM  14025  N7  G   A 673     182.724 108.981 -73.151  1.00 40.29      A16S
ATOM  14026  C8  G   A 673     182.798 109.903 -74.071  1.00 40.29      A16S
ATOM  14027  C2* G   A 673     184.627 112.721 -74.693  1.00 65.20      A16S
ATOM  14028  O2* G   A 673     184.789 114.122 -74.665  1.00 65.20      A16S
ATOM  14029  C3* G   A 673     184.717 112.148 -76.102  1.00 65.20      A16S
ATOM  14030  O3* G   A 673     185.668 112.842 -76.913  1.00 65.20      A16S
ATOM  14031  P   G   A 674     187.125 112.208 -77.184  1.00 47.94      A16S
ATOM  14032  O1P G   A 674     187.613 112.900 -78.406  1.00 41.67      A16S
ATOM  14033  O2P G   A 674     187.090 110.716 -77.144  1.00 41.67      A16S
ATOM  14034  O5* G   A 674     188.001 112.757 -75.976  1.00 47.94      A16S
ATOM  14035  C5* G   A 674     188.319 114.150 -75.913  1.00 47.94      A16S
ATOM  14036  C4* G   A 674     188.466 114.587 -74.490  1.00 47.94      A16S
ATOM  14037  O4* G   A 674     187.263 114.236 -73.766  1.00 47.94      A16S
ATOM  14038  C1* G   A 674     187.589 113.899 -72.432  1.00 47.94      A16S
ATOM  14039  N9  G   A 674     187.234 112.506 -72.197  1.00 41.67      A16S
ATOM  14040  C4  G   A 674     186.959 111.922 -70.985  1.00 41.67      A16S
ATOM  14041  N3  G   A 674     186.924 112.545 -69.791  1.00 41.67      A16S
ATOM  14042  C2  G   A 674     186.653 111.701 -68.807  1.00 41.67      A16S
ATOM  14043  N2  G   A 674     186.572 112.143 -67.548  1.00 41.67      A16S
ATOM  14044  N1  G   A 674     186.441 110.363 -68.984  1.00 41.67      A16S
ATOM  14045  C6  G   A 674     186.480 109.707 -70.202  1.00 41.67      A16S
ATOM  14046  O6  G   A 674     186.293 108.496 -70.251  1.00 41.67      A16S
ATOM  14047  C5  G   A 674     186.754 110.590 -71.260  1.00 41.67      A16S
ATOM  14048  N7  G   A 674     186.868 110.346 -72.617  1.00 41.67      A16S
ATOM  14049  C8  G   A 674     187.148 111.511 -73.133  1.00 41.67      A16S
ATOM  14050  C2* G   A 674     189.092 114.090 -72.277  1.00 47.94      A16S
ATOM  14051  O2* G   A 674     189.332 115.400 -71.802  1.00 47.94      A16S
ATOM  14052  C3* G   A 674     189.571 113.914 -73.708  1.00 47.94      A16S
ATOM  14053  O3* G   A 674     190.829 114.530 -73.917  1.00 47.94      A16S
ATOM  14054  P   A   A 675     192.173 113.758 -73.470  1.00 47.16      A16S
ATOM  14055  O1P A   A 675     193.317 114.530 -74.039  1.00 55.51      A16S
ATOM  14056  O2P A   A 675     192.039 112.305 -73.777  1.00 55.51      A16S
ATOM  14057  O5* A   A 675     192.195 113.879 -71.879  1.00 47.16      A16S
ATOM  14058  C5* A   A 675     192.355 115.152 -71.241  1.00 47.16      A16S
ATOM  14059  C4* A   A 675     192.388 114.990 -69.743  1.00 47.16      A16S
ATOM  14060  O4* A   A 675     191.091 114.554 -69.259  1.00 47.16      A16S
ATOM  14061  C1* A   A 675     191.260 113.722 -68.122  1.00 47.16      A16S
ATOM  14062  N9  A   A 675     190.728 112.387 -68.424  1.00 55.51      A16S
ATOM  14063  C4  A   A 675     190.443 111.408 -67.500  1.00 55.51      A16S
ATOM  14064  N3  A   A 675     190.557 111.490 -66.162  1.00 55.51      A16S
ATOM  14065  C2  A   A 675     190.203 110.345 -65.592  1.00 55.51      A16S
ATOM  14066  N1  A   A 675     189.785 109.211 -66.162  1.00 55.51      A16S
ATOM  14067  C6  A   A 675     189.684 109.163 -67.507  1.00 55.51      A16S
ATOM  14068  N6  A   A 675     189.275 108.031 -68.077  1.00 55.51      A16S
ATOM  14069  C5  A   A 675     190.020 110.313 -68.228  1.00 55.51      A16S
ATOM  14070  N7  A   A 675     190.015 110.595 -69.584  1.00 55.51      A16S
ATOM  14071  C8  A   A 675     190.437 111.834 -69.649  1.00 55.51      A16S
ATOM  14072  C2* A   A 675     192.758 113.660 -67.831  1.00 47.16      A16S
ATOM  14073  O2* A   A 675     193.124 114.677 -66.924  1.00 47.16      A16S
ATOM  14074  C3* A   A 675     193.335 113.939 -69.203  1.00 47.16      A16S
ATOM  14075  O3* A   A 675     194.682 114.344 -69.138  1.00 47.16      A16S
ATOM  14076  P   A   A 676     195.829 113.260 -69.454  1.00 44.70      A16S
ATOM  14077  O1P A   A 676     197.128 113.980 -69.612  1.00 32.90      A16S
ATOM  14078  O2P A   A 676     195.325 112.385 -70.546  1.00 32.90      A16S
ATOM  14079  O5* A   A 676     195.897 112.351 -68.148  1.00 44.70      A16S
ATOM  14080  C5* A   A 676     196.232 112.924 -66.871  1.00 44.70      A16S
ATOM  14081  C4* A   A 676     195.916 111.953 -65.768  1.00 44.70      A16S
ATOM  14082  O4* A   A 676     194.512 111.621 -65.838  1.00 44.70      A16S
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ATOM  14083  C1* A   A 676     194.327 110.269 -65.473  1.00 44.70      A16S
ATOM  14084  N9  A   A 676     193.770 109.553 -66.617  1.00 32.90      A16S
ATOM  14085  C4  A   A 676     193.200 108.304 -66.568  1.00 32.90      A16S
ATOM  14086  N3  A   A 676     193.019 107.538 -65.486  1.00 32.90      A16S
ATOM  14087  C2  A   A 676     192.449 106.395 -65.816  1.00 32.90      A16S
ATOM  14088  N1  A   A 676     192.070 105.956 -67.012  1.00 32.90      A16S
ATOM  14089  C6  A   A 676     192.266 106.745 -68.077  1.00 32.90      A16S
ATOM  14090  N6  A   A 676     191.895 106.292 -69.270  1.00 32.90      A16S
ATOM  14091  C5  A   A 676     192.858 107.995 -67.862  1.00 32.90      A16S
ATOM  14092  N7  A   A 676     193.186 109.037 -68.718  1.00 32.90      A16S
ATOM  14093  C8  A   A 676     193.719 109.938 -67.930  1.00 32.90      A16S
ATOM  14094  C2* A   A 676     195.687 109.701 -65.094  1.00 44.70      A16S
ATOM  14095  O2* A   A 676     195.866 109.815 -63.702  1.00 44.70      A16S
ATOM  14096  C3* A   A 676     196.611 110.612 -65.872  1.00 44.70      A16S
ATOM  14097  O3* A   A 676     197.911 110.637 -65.335  1.00 44.70      A16S
ATOM  14098  P   U   A 677     199.026 109.650 -65.937  1.00 38.44      A16S
ATOM  14099  O1P U   A 677     200.320 110.123 -65.385  1.00 33.91      A16S
ATOM  14100  O2P U   A 677     198.846 109.547 -67.412  1.00 33.91      A16S
ATOM  14101  O5* U   A 677     198.692 108.237 -65.281  1.00 38.44      A16S
ATOM  14102  C5* U   A 677     198.715 108.088 -63.858  1.00 38.44      A16S
ATOM  14103  C4* U   A 677     198.193 106.735 -63.450  1.00 38.44      A16S
ATOM  14104  O4* U   A 677     196.788 106.599 -63.775  1.00 38.44      A16S
ATOM  14105  C1* U   A 677     196.499 105.246 -64.072  1.00 38.44      A16S
ATOM  14106  N1  U   A 677     195.968 105.153 -65.439  1.00 33.91      A16S
ATOM  14107  C6  U   A 677     196.201 106.132 -66.379  1.00 33.91      A16S
ATOM  14108  C2  U   A 677     195.216 104.040 -65.751  1.00 33.91      A16S
ATOM  14109  O2  U   A 677     194.984 103.164 -64.953  1.00 33.91      A16S
ATOM  14110  N3  U   A 677     194.738 103.998 -67.032  1.00 33.91      A16S
ATOM  14111  C4  U   A 677     194.919 104.944 -68.014  1.00 33.91      A16S
ATOM  14112  O4  U   A 677     194.356 104.801 -69.098  1.00 33.91      A16S
ATOM  14113  C5  U   A 677     195.714 106.070 -67.620  1.00 33.91      A16S
ATOM  14114  C2* U   A 677     197.788 104.457 -63.900  1.00 38.44      A16S
ATOM  14115  O2* U   A 677     197.788 103.941 -62.586  1.00 38.44      A16S
ATOM  14116  C3* U   A 677     198.837 105.540 -64.111  1.00 38.44      A16S
ATOM  14117  O3* U   A 677     200.082 105.238 -63.516  1.00 38.44      A16S
ATOM  14118  P   U   A 678     201.278 104.688 -64.434  1.00 42.99      A16S
ATOM  14119  O1P U   A 678     202.475 104.580 -63.548  1.00 46.48      A16S
ATOM  14120  O2P U   A 678     201.347 105.519 -65.676  1.00 46.48      A16S
ATOM  14121  O5* U   A 678     200.811 103.211 -64.802  1.00 42.99      A16S
ATOM  14122  C5* U   A 678     200.620 102.240 -63.763  1.00 42.99      A16S
ATOM  14123  C4* U   A 678     200.000 100.976 -64.309  1.00 42.99      A16S
ATOM  14124  O4* U   A 678     198.628 101.205 -64.708  1.00 42.99      A16S
ATOM  14125  C1* U   A 678     198.321 100.401 -65.833  1.00 42.99      A16S
ATOM  14126  N1  U   A 678     198.027 101.285 -66.969  1.00 46.48      A16S
ATOM  14127  C6  U   A 678     198.324 102.621 -66.919  1.00 46.48      A16S
ATOM  14128  C2  U   A 678     197.437 100.726 -68.092  1.00 46.48      A16S
ATOM  14129  O2  U   A 678     197.170  99.534 -68.191  1.00 46.48      A16S
ATOM  14130  N3  U   A 678     197.172 101.612 -69.098  1.00 46.48      A16S
ATOM  14131  C4  U   A 678     197.430 102.960 -69.097  1.00 46.48      A16S
ATOM  14132  O4  U   A 678     197.056 103.643 -70.047  1.00 46.48      A16S
ATOM  14133  C5  U   A 678     198.055 103.451 -67.914  1.00 46.48      A16S
ATOM  14134  C2* U   A 678     199.539  99.535 -66.121  1.00 42.99      A16S
ATOM  14135  O2* U   A 678     199.387  98.294 -65.460  1.00 42.99      A16S
ATOM  14136  C3* U   A 678     200.654 100.390 -65.541  1.00 42.99      A16S
ATOM  14137  O3* U   A 678     201.811  99.645 -65.230  1.00 42.99      A16S
ATOM  14138  P   C   A 679     203.067  99.706 -66.218  1.00 51.55      A16S
ATOM  14139  O1P C   A 679     204.181  99.101 -65.459  1.00 39.32      A16S
ATOM  14140  O2P C   A 679     203.206 101.090 -66.739  1.00 39.32      A16S
ATOM  14141  O5* C   A 679     202.651  98.716 -67.392  1.00 51.55      A16S
ATOM  14142  C5* C   A 679     202.290  97.363 -67.092  1.00 51.55      A16S
ATOM  14143  C4* C   A 679     201.510  96.768 -68.230  1.00 51.55      A16S
ATOM  14144  O4* C   A 679     200.304  97.546 -68.436  1.00 51.55      A16S
ATOM  14145  C1* C   A 679     200.019  97.635 -69.825  1.00 51.55      A16S
ATOM  14146  N1  C   A 679     200.094  99.046 -70.232  1.00 39.32      A16S
ATOM  14147  C6  C   A 679     200.830  99.945 -69.519  1.00 39.32      A16S
ATOM  14148  C2  C   A 679     199.381  99.456 -71.354  1.00 39.32      A16S
ATOM  14149  O2  C   A 679     198.775  98.607 -72.014  1.00 39.32      A16S
ATOM  14150  N3  C   A 679     199.378 100.759 -71.699  1.00 39.32      A16S
ATOM  14151  C4  C   A 679     200.079 101.634 -70.980  1.00 39.32      A16S
ATOM  14152  N4  C   A 679     200.047 102.917 -71.343  1.00 39.32      A16S
ATOM  14153  C5  C   A 679     200.848 101.235 -69.853  1.00 39.32      A16S
ATOM  14154  C2* C   A 679     201.035  96.778 -70.563  1.00 51.55      A16S
ATOM  14155  O2* C   A 679     200.425  95.516 -70.784  1.00 51.55      A16S
ATOM  14156  C3* C   A 679     202.207  96.800 -69.577  1.00 51.55      A16S
ATOM  14157  O3* C   A 679     203.128  95.727 -69.718  1.00 51.55      A16S
ATOM  14158  P   C   A 680     204.490  95.960 -70.537  1.00 56.30      A16S
ATOM  14159  O1P C   A 680     205.298  94.739 -70.317  1.00 46.29      A16S
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ATOM  14160  O2P C   A 680     205.054  97.287 -70.195  1.00 46.29      A16S
ATOM  14161  O5* C   A 680     204.019  96.011 -72.058  1.00 56.30      A16S
ATOM  14162  C5* C   A 680     203.521  94.827 -72.706  1.00 56.30      A16S
ATOM  14163  C4* C   A 680     203.058  95.143 -74.106  1.00 56.30      A16S
ATOM  14164  O4* C   A 680     201.888  95.997 -74.050  1.00 56.30      A16S
ATOM  14165  C1* C   A 680     201.902  96.890 -75.149  1.00 56.30      A16S
ATOM  14166  N1  C   A 680     201.965  98.273 -74.647  1.00 46.29      A16S
ATOM  14167  C6  C   A 680     202.335  98.548 -73.357  1.00 46.29      A16S
ATOM  14168  C2  C   A 680     201.646  99.317 -75.527  1.00 46.29      A16S
ATOM  14169  O2  C   A 680     201.327  99.041 -76.692  1.00 46.29      A16S
ATOM  14170  N3  C   A 680     201.700 100.594 -75.090  1.00 46.29      A16S
ATOM  14171  C4  C   A 680     202.067 100.853 -73.834  1.00 46.29      A16S
ATOM  14172  N4  C   A 680     202.121 102.131 -73.453  1.00 46.29      A16S
ATOM  14173  C5  C   A 680     202.400  99.813 -72.913  1.00 46.29      A16S
ATOM  14174  C2* C   A 680     203.127  96.573 -76.003  1.00 56.30      A16S
ATOM  14175  O2* C   A 680     202.744  95.744 -77.081  1.00 56.30      A16S
ATOM  14176  C3* C   A 680     204.043  95.901 -74.985  1.00 56.30      A16S
ATOM  14177  O3* C   A 680     205.044  95.074 -75.588  1.00 56.30      A16S
ATOM  14178  P   C   A 681     206.455  95.725 -76.022  1.00 57.65      A16S
ATOM  14179  O1P C   A 681     207.299  94.621 -76.521  1.00 55.90      A16S
ATOM  14180  O2P C   A 681     206.966  96.596 -74.933  1.00 55.90      A16S
ATOM  14181  O5* C   A 681     206.078  96.647 -77.264  1.00 57.65      A16S
ATOM  14182  C5* C   A 681     205.521  96.065 -78.452  1.00 57.65      A16S
ATOM  14183  C4* C   A 681     205.269  97.125 -79.486  1.00 57.65      A16S
ATOM  14184  O4* C   A 681     204.203  97.998 -79.035  1.00 57.65      A16S
ATOM  14185  C1* C   A 681     204.445  99.320 -79.496  1.00 57.65      A16S
ATOM  14186  N1  C   A 681     204.618 100.216 -78.337  1.00 55.90      A16S
ATOM  14187  C6  C   A 681     205.121  99.752 -77.153  1.00 55.90      A16S
ATOM  14188  C2  C   A 681     204.285 101.571 -78.478  1.00 55.90      A16S
ATOM  14189  O2  C   A 681     203.800 101.960 -79.541  1.00 55.90      A16S
ATOM  14190  N3  C   A 681     204.495 102.416 -77.450  1.00 55.90      A16S
ATOM  14191  C4  C   A 681     204.999 101.958 -76.307  1.00 55.90      A16S
ATOM  14192  N4  C   A 681     205.190 102.832 -75.319  1.00 55.90      A16S
ATOM  14193  C5  C   A 681     205.329 100.581 -76.123  1.00 55.90      A16S
ATOM  14194  C2* C   A 681     205.726  99.290 -80.327  1.00 57.65      A16S
ATOM  14195  O2* C   A 681     205.400  99.166 -81.696  1.00 57.65      A16S
ATOM  14196  C3* C   A 681     206.427  98.069 -79.752  1.00 57.65      A16S
ATOM  14197  O3* C   A 681     207.406  97.535 -80.618  1.00 57.65      A16S
ATOM  14198  P   G   A 682     208.950  97.917 -80.387  1.00 67.13      A16S
ATOM  14199  O1P G   A 682     209.727  96.995 -81.252  1.00 65.55      A16S
ATOM  14200  O2P G   A 682     209.245  97.972 -78.933  1.00 65.55      A16S
ATOM  14201  O5* G   A 682     209.070  99.391 -80.974  1.00 67.13      A16S
ATOM  14202  C5* G   A 682     208.927  99.600 -82.377  1.00 67.13      A16S
ATOM  14203  C4* G   A 682     208.783 101.064 -82.694  1.00 67.13      A16S
ATOM  14204  O4* G   A 682     207.578 101.590 -82.081  1.00 67.13      A16S
ATOM  14205  C1* G   A 682     207.764 102.961 -81.774  1.00 67.13      A16S
ATOM  14206  N9  G   A 682     207.667 103.146 -80.330  1.00 65.55      A16S
ATOM  14207  C4  G   A 682     207.570 104.351 -79.685  1.00 65.55      A16S
ATOM  14208  N3  G   A 682     207.479 105.557 -80.278  1.00 65.55      A16S
ATOM  14209  C2  G   A 682     207.438 106.533 -79.398  1.00 65.55      A16S
ATOM  14210  N2  G   A 682     207.336 107.790 -79.812  1.00 65.55      A16S
ATOM  14211  N1  G   A 682     207.491 106.346 -78.043  1.00 65.55      A16S
ATOM  14212  C6  G   A 682     207.592 105.112 -77.411  1.00 65.55      A16S
ATOM  14213  O6  G   A 682     207.654 105.051 -76.180  1.00 65.55      A16S
ATOM  14214  C5  G   A 682     207.620 104.053 -78.343  1.00 65.55      A16S
ATOM  14215  N7  G   A 682     207.700 102.683 -78.143  1.00 65.55      A16S
ATOM  14216  C8  G   A 682     207.713 102.184 -79.348  1.00 65.55      A16S
ATOM  14217  C2* G   A 682     209.170 103.342 -82.236  1.00 67.13      A16S
ATOM  14218  O2* G   A 682     209.103 103.891 -83.534  1.00 67.13      A16S
ATOM  14219  C3* G   A 682     209.876 101.994 -82.206  1.00 67.13      A16S
ATOM  14220  O3* G   A 682     211.038 101.974 -83.020  1.00 67.13      A16S
ATOM  14221  P   G   A 683     212.452 102.396 -82.380  1.00 92.19      A16S
ATOM  14222  O1P G   A 683     213.485 102.236 -83.432  1.00 58.06      A16S
ATOM  14223  O2P G   A 683     212.608 101.683 -81.084  1.00 58.06      A16S
ATOM  14224  O5* G   A 683     212.287 103.957 -82.118  1.00 92.19      A16S
ATOM  14225  C5* G   A 683     211.937 104.826 -83.205  1.00 92.19      A16S
ATOM  14226  C4* G   A 683     211.863 106.259 -82.749  1.00 92.19      A16S
ATOM  14227  O4* G   A 683     210.714 106.475 -81.891  1.00 92.19      A16S
ATOM  14228  C1* G   A 683     211.008 107.505 -80.960  1.00 92.19      A16S
ATOM  14229  N9  G   A 683     210.858 106.982 -79.604  1.00 58.06      A16S
ATOM  14230  C4  G   A 683     210.723 107.727 -78.455  1.00 58.06      A16S
ATOM  14231  N3  G   A 683     210.678 109.074 -78.383  1.00 58.06      A16S
ATOM  14232  C2  G   A 683     210.558 109.500 -77.135  1.00 58.06      A16S
ATOM  14233  N2  G   A 683     210.501 110.814 -76.880  1.00 58.06      A16S
ATOM  14234  N1  G   A 683     210.486 108.673 -76.046  1.00 58.06      A16S
ATOM  14235  C6  G   A 683     210.527 107.286 -76.096  1.00 58.06      A16S
ATOM  14236  O6  G   A 683     210.455 106.634 -75.051  1.00 58.06      A16S
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ATOM  14237  C5  G   A 683     210.655 106.812 -77.430  1.00 58.06      A16S
ATOM  14238  N7  G   A 683     210.726 105.516 -77.922  1.00 58.06      A16S
ATOM  14239  C8  G   A 683     210.843 105.666 -79.214  1.00 58.06      A16S
ATOM  14240  C2* G   A 683     212.436 107.978 -81.232  1.00 92.19      A16S
ATOM  14241  O2* G   A 683     212.394 109.115 -82.069  1.00 92.19      A16S
ATOM  14242  C3* G   A 683     213.034 106.770 -81.939  1.00 92.19      A16S
ATOM  14243  O3* G   A 683     214.128 107.119 -82.762  1.00 92.19      A16S
ATOM  14244  P   A   A 684     215.621 106.852 -82.236  1.00 67.20      A16S
ATOM  14245  O1P A   A 684     216.528 107.106 -83.391  1.00 59.55      A16S
ATOM  14246  O2P A   A 684     215.659 105.530 -81.543  1.00 59.55      A16S
ATOM  14247  O5* A   A 684     215.858 107.990 -81.143  1.00 67.20      A16S
ATOM  14248  C5* A   A 684     215.880 109.383 -81.518  1.00 67.20      A16S
ATOM  14249  C4* A   A 684     215.821 110.257 -80.290  1.00 67.20      A16S
ATOM  14250  O4* A   A 684     214.545 110.062 -79.634  1.00 67.20      A16S
ATOM  14251  C1* A   A 684     214.717 110.089 -78.231  1.00 67.20      A16S
ATOM  14252  N9  A   A 684     214.443 108.746 -77.738  1.00 59.55      A16S
ATOM  14253  C4  A   A 684     214.101 108.382 -76.461  1.00 59.55      A16S
ATOM  14254  N3  A   A 684     213.931 109.185 -75.400  1.00 59.55      A16S
ATOM  14255  C2  A   A 684     213.604 108.477 -74.328  1.00 59.55      A16S
ATOM  14256  N1  A   A 684     213.440 107.159 -74.205  1.00 59.55      A16S
ATOM  14257  C6  A   A 684     213.615 106.383 -75.293  1.00 59.55      A16S
ATOM  14258  N6  A   A 684     213.442 105.066 -75.177  1.00 59.55      A16S
ATOM  14259  C5  A   A 684     213.966 107.012 -76.487  1.00 59.55      A16S
ATOM  14260  N7  A   A 684     214.217 106.520 -77.755  1.00 59.55      A16S
ATOM  14261  C8  A   A 684     214.490 107.587 -78.457  1.00 59.55      A16S
ATOM  14262  C2* A   A 684     216.168 110.466 -77.953  1.00 67.20      A16S
ATOM  14263  O2* A   A 684     216.265 111.865 -77.789  1.00 67.20      A16S
ATOM  14264  C3* A   A 684     216.854 109.961 -79.214  1.00 67.20      A16S
ATOM  14265  O3* A   A 684     218.107 110.595 -79.453  1.00 67.20      A16S
ATOM  14266  P   G   A 685     219.451 109.953 -78.836  1.00 65.61      A16S
ATOM  14267  O1P G   A 685     220.577 110.889 -79.116  1.00 51.17      A16S
ATOM  14268  O2P G   A 685     219.549 108.519 -79.249  1.00 51.17      A16S
ATOM  14269  O5* G   A 685     219.200 110.001 -77.265  1.00 65.61      A16S
ATOM  14270  C5* G   A 685     218.966 111.257 -76.605  1.00 65.61      A16S
ATOM  14271  C4* G   A 685     218.724 111.036 -75.138  1.00 65.61      A16S
ATOM  14272  O4* G   A 685     217.475 110.337 -74.943  1.00 65.61      A16S
ATOM  14273  C1* G   A 685     217.584 109.482 -73.824  1.00 65.61      A16S
ATOM  14274  N9  G   A 685     217.281 108.121 -74.244  1.00 51.17      A16S
ATOM  14275  C4  G   A 685     216.866 107.105 -73.422  1.00 51.17      A16S
ATOM  14276  N3  G   A 685     216.681 107.192 -72.090  1.00 51.17      A16S
ATOM  14277  C2  G   A 685     216.267 106.053 -71.577  1.00 51.17      A16S
ATOM  14278  N2  G   A 685     216.044 105.957 -70.268  1.00 51.17      A16S
ATOM  14279  N1  G   A 685     216.043 104.921 -72.306  1.00 51.17      A16S
ATOM  14280  C6  G   A 685     216.224 104.805 -73.672  1.00 51.17      A16S
ATOM  14281  O6  G   A 685     215.987 103.732 -74.229  1.00 51.17      A16S
ATOM  14282  C5  G   A 685     216.679 106.021 -74.244  1.00 51.17      A16S
ATOM  14283  N7  G   A 685     216.983 106.344 -75.560  1.00 51.17      A16S
ATOM  14284  C8  G   A 685     217.338 107.598 -75.511  1.00 51.17      A16S
ATOM  14285  C2* G   A 685     218.994 109.614 -73.260  1.00 65.61      A16S
ATOM  14286  O2* G   A 685     218.991 110.498 -72.161  1.00 65.61      A16S
ATOM  14287  C3* G   A 685     219.748 110.153 -74.463  1.00 65.61      A16S
ATOM  14288  O3* G   A 685     220.909 110.868 -74.110  1.00 65.61      A16S
ATOM  14289  P   U   A 686     222.289 110.073 -73.940  1.00 42.88      A16S
ATOM  14290  O1P U   A 686     223.317 111.040 -73.446  1.00 50.29      A16S
ATOM  14291  O2P U   A 686     222.560 109.232 -75.140  1.00 50.29      A16S
ATOM  14292  O5* U   A 686     221.959 109.051 -72.789  1.00 42.88      A16S
ATOM  14293  C5* U   A 686     222.939 108.730 -71.860  1.00 42.88      A16S
ATOM  14294  C4* U   A 686     222.429 108.994 -70.485  1.00 42.88      A16S
ATOM  14295  O4* U   A 686     221.127 108.382 -70.316  1.00 42.88      A16S
ATOM  14296  C1* U   A 686     221.212 107.335 -69.379  1.00 42.88      A16S
ATOM  14297  N1  U   A 686     220.323 106.248 -69.818  1.00 50.29      A16S
ATOM  14298  C6  U   A 686     220.407 105.706 -71.073  1.00 50.29      A16S
ATOM  14299  C2  U   A 686     219.380 105.789 -68.917  1.00 50.29      A16S
ATOM  14300  O2  U   A 686     219.272 106.228 -67.793  1.00 50.29      A16S
ATOM  14301  N3  U   A 686     218.563 104.792 -69.378  1.00 50.29      A16S
ATOM  14302  C4  U   A 686     218.587 104.214 -70.618  1.00 50.29      A16S
ATOM  14303  O4  U   A 686     217.753 103.353 -70.895  1.00 50.29      A16S
ATOM  14304  C5  U   A 686     219.591 104.731 -71.495  1.00 50.29      A16S
ATOM  14305  C2* U   A 686     222.693 106.979 -69.276  1.00 42.88      A16S
ATOM  14306  O2* U   A 686     223.042 106.494 -68.011  1.00 42.88      A16S
ATOM  14307  C3* U   A 686     223.345 108.332 -69.496  1.00 42.88      A16S
ATOM  14308  O3* U   A 686     223.341 109.107 -68.326  1.00 42.88      A16S
ATOM  14309  P   A   A 687     224.601 109.049 -67.343  1.00 37.54      A16S
ATOM  14310  O1P A   A 687     224.839 110.477 -66.926  1.00 30.78      A16S
ATOM  14311  O2P A   A 687     225.706 108.248 -67.969  1.00 30.78      A16S
ATOM  14312  O5* A   A 687     224.078 108.196 -66.106  1.00 37.54      A16S
ATOM  14313  C5* A   A 687     223.364 108.808 -65.027  1.00 37.54      A16S
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ATOM  14314  C4* A   A 687     222.816 107.741 -64.149  1.00 37.54      A16S
ATOM  14315  O4* A   A 687     221.909 106.966 -64.936  1.00 37.54      A16S
ATOM  14316  C1* A   A 687     221.861 105.669 -64.409  1.00 37.54      A16S
ATOM  14317  N9  A   A 687     221.379 104.795 -65.473  1.00 30.78      A16S
ATOM  14318  C4  A   A 687     220.379 103.860 -65.385  1.00 30.78      A16S
ATOM  14319  N3  A   A 687     219.666 103.521 -64.297  1.00 30.78      A16S
ATOM  14320  C2  A   A 687     218.796 102.568 -64.593  1.00 30.78      A16S
ATOM  14321  N1  A   A 687     218.573 101.961 -65.760  1.00 30.78      A16S
ATOM  14322  C6  A   A 687     219.309 102.330 -66.830  1.00 30.78      A16S
ATOM  14323  N6  A   A 687     219.103 101.725 -67.998  1.00 30.78      A16S
ATOM  14324  C5  A   A 687     220.258 103.326 -66.650  1.00 30.78      A16S
ATOM  14325  N7  A   A 687     221.164 103.906 -67.516  1.00 30.78      A16S
ATOM  14326  C8  A   A 687     221.806 104.759 -66.767  1.00 30.78      A16S
ATOM  14327  C2* A   A 687     223.261 105.357 -63.876  1.00 37.54      A16S
ATOM  14328  O2* A   A 687     223.233 104.556 -62.715  1.00 37.54      A16S
ATOM  14329  C3* A   A 687     223.882 106.752 -63.729  1.00 37.54      A16S
ATOM  14330  O3* A   A 687     224.582 107.167 -62.547  1.00 37.54      A16S
ATOM  14331  P   G   A 688     223.885 107.119 -61.092  1.00 44.19      A16S
ATOM  14332  O1P G   A 688     224.910 107.696 -60.195  1.00 34.21      A16S
ATOM  14333  O2P G   A 688     223.290 105.801 -60.764  1.00 34.21      A16S
ATOM  14334  O5* G   A 688     222.719 108.192 -61.169  1.00 44.19      A16S
ATOM  14335  C5* G   A 688     221.605 108.108 -60.278  1.00 44.19      A16S
ATOM  14336  C4* G   A 688     220.372 107.729 -61.049  1.00 44.19      A16S
ATOM  14337  O4* G   A 688     220.521 106.382 -61.557  1.00 44.19      A16S
ATOM  14338  C1* G   A 688     219.266 105.728 -61.553  1.00 44.19      A16S
ATOM  14339  N9  G   A 688     219.335 104.663 -60.563  1.00 34.21      A16S
ATOM  14340  C4  G   A 688     218.435 103.647 -60.381  1.00 34.21      A16S
ATOM  14341  N3  G   A 688     217.321 103.443 -61.102  1.00 34.21      A16S
ATOM  14342  C2  G   A 688     216.652 102.384 -60.684  1.00 34.21      A16S
ATOM  14343  N2  G   A 688     215.504 102.032 -61.296  1.00 34.21      A16S
ATOM  14344  N1  G   A 688     217.054 101.594 -59.640  1.00 34.21      A16S
ATOM  14345  C6  G   A 688     218.201 101.798 -58.886  1.00 34.21      A16S
ATOM  14346  O6  G   A 688     218.478 101.029 -57.960  1.00 34.21      A16S
ATOM  14347  C5  G   A 688     218.916 102.919 -59.322  1.00 34.21      A16S
ATOM  14348  N7  G   A 688     220.095 103.461 -58.846  1.00 34.21      A16S
ATOM  14349  C8  G   A 688     220.306 104.493 -59.612  1.00 34.21      A16S
ATOM  14350  C2* G   A 688     218.232 106.759 -61.120  1.00 44.19      A16S
ATOM  14351  O2* G   A 688     217.743 107.469 -62.241  1.00 44.19      A16S
ATOM  14352  C3* G   A 688     219.081 107.669 -60.263  1.00 44.19      A16S
ATOM  14353  O3* G   A 688     218.481 108.930 -60.088  1.00 44.19      A16S
ATOM  14354  P   C   A 689     217.676 109.210 -58.742  1.00 36.22      A16S
ATOM  14355  O1P C   A 689     217.433 110.662 -58.633  1.00 29.49      A16S
ATOM  14356  O2P C   A 689     218.404 108.499 -57.651  1.00 29.49      A16S
ATOM  14357  O5* C   A 689     216.294 108.479 -59.013  1.00 36.22      A16S
ATOM  14358  C5* C   A 689     215.522 108.821 -60.167  1.00 36.22      A16S
ATOM  14359  C4* C   A 689     214.498 107.752 -60.441  1.00 36.22      A16S
ATOM  14360  O4* C   A 689     215.171 106.471 -60.491  1.00 36.22      A16S
ATOM  14361  C1* C   A 689     214.328 105.463 -59.979  1.00 36.22      A16S
ATOM  14362  N1  C   A 689     214.994 104.837 -58.838  1.00 29.49      A16S
ATOM  14363  C6  C   A 689     216.134 105.374 -58.316  1.00 29.49      A16S
ATOM  14364  C2  C   A 689     214.440 103.662 -58.284  1.00 29.49      A16S
ATOM  14365  O2  C   A 689     213.386 103.207 -58.765  1.00 29.49      A16S
ATOM  14366  N3  C   A 689     215.060 103.066 -57.239  1.00 29.49      A16S
ATOM  14367  C4  C   A 689     216.175 103.603 -56.737  1.00 29.49      A16S
ATOM  14368  N4  C   A 689     216.752 102.999 -55.699  1.00 29.49      A16S
ATOM  14369  C5  C   A 689     216.751 104.797 -57.277  1.00 29.49      A16S
ATOM  14370  C2* C   A 689     213.007 106.115 -59.595  1.00 36.22      A16S
ATOM  14371  O2* C   A 689     212.118 105.946 -60.676  1.00 36.22      A16S
ATOM  14372  C3* C   A 689     213.435 107.560 -59.377  1.00 36.22      A16S
ATOM  14373  O3* C   A 689     212.367 108.489 -59.505  1.00 36.22      A16S
ATOM  14374  P   G   A 690     211.776 109.187 -58.183  1.00 35.28      A16S
ATOM  14375  O1P G   A 690     210.681 110.072 -58.649  1.00 50.87      A16S
ATOM  14376  O2P G   A 690     212.881 109.746 -57.358  1.00 50.87      A16S
ATOM  14377  O5* G   A 690     211.127 107.986 -57.377  1.00 35.28      A16S
ATOM  14378  C5* G   A 690     210.041 107.252 -57.935  1.00 35.28      A16S
ATOM  14379  C4* G   A 690     209.820 106.012 -57.131  1.00 35.28      A16S
ATOM  14380  O4* G   A 690     211.075 105.305 -57.093  1.00 35.28      A16S
ATOM  14381  C1* G   A 690     211.274 104.749 -55.811  1.00 35.28      A16S
ATOM  14382  N9  G   A 690     212.528 105.281 -55.294  1.00 50.87      A16S
ATOM  14383  C4  G   A 690     213.388 104.659 -54.422  1.00 50.87      A16S
ATOM  14384  N3  G   A 690     213.203 103.453 -53.844  1.00 50.87      A16S
ATOM  14385  C2  G   A 690     214.232 103.109 -53.080  1.00 50.87      A16S
ATOM  14386  N2  G   A 690     214.234 101.938 -52.419  1.00 50.87      A16S
ATOM  14387  N1  G   A 690     215.341 103.885 -52.904  1.00 50.87      A16S
ATOM  14388  C6  G   A 690     215.549 105.130 -53.486  1.00 50.87      A16S
ATOM  14389  O6  G   A 690     216.601 105.747 -53.262  1.00 50.87      A16S
ATOM  14390  C5  G   A 690     214.459 105.514 -54.298  1.00 50.87      A16S
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ATOM  14391  N7  G   A 690     214.262 106.664 -55.049  1.00 50.87      A16S
ATOM  14392  C8  G   A 690     213.103 106.486 -55.615  1.00 50.87      A16S
ATOM  14393  C2* G   A 690     210.034 105.049 -54.966  1.00 35.28      A16S
ATOM  14394  O2* G   A 690     209.165 103.936 -55.025  1.00 35.28      A16S
ATOM  14395  C3* G   A 690     209.469 106.271 -55.676  1.00 35.28      A16S
ATOM  14396  O3* G   A 690     208.061 106.406 -55.524  1.00 35.28      A16S
ATOM  14397  P   G   A 691     207.465 107.645 -54.691  1.00 45.95      A16S
ATOM  14398  O1P G   A 691     206.002 107.663 -54.962  1.00 43.11      A16S
ATOM  14399  O2P G   A 691     208.252 108.878 -54.916  1.00 43.11      A16S
ATOM  14400  O5* G   A 691     207.721 107.189 -53.198  1.00 45.95      A16S
ATOM  14401  C5* G   A 691     207.054 106.045 -52.706  1.00 45.95      A16S
ATOM  14402  C4* G   A 691     207.831 105.440 -51.591  1.00 45.95      A16S
ATOM  14403  O4* G   A 691     209.118 105.014 -52.087  1.00 45.95      A16S
ATOM  14404  C1* G   A 691     210.088 105.158 -51.062  1.00 45.95      A16S
ATOM  14405  N9  G   A 691     211.094 106.118 -51.497  1.00 43.11      A16S
ATOM  14406  C4  G   A 691     212.420 106.105 -51.171  1.00 43.11      A16S
ATOM  14407  N3  G   A 691     213.038 105.159 -50.448  1.00 43.11      A16S
ATOM  14408  C2  G   A 691     214.309 105.432 -50.275  1.00 43.11      A16S
ATOM  14409  N2  G   A 691     215.080 104.562 -49.605  1.00 43.11      A16S
ATOM  14410  N1  G   A 691     214.920 106.574 -50.752  1.00 43.11      A16S
ATOM  14411  C6  G   A 691     214.280 107.580 -51.480  1.00 43.11      A16S
ATOM  14412  O6  G   A 691     214.894 108.616 -51.817  1.00 43.11      A16S
ATOM  14413  C5  G   A 691     212.938 107.262 -51.706  1.00 43.11      A16S
ATOM  14414  N7  G   A 691     211.967 107.961 -52.401  1.00 43.11      A16S
ATOM  14415  C8  G   A 691     210.891 107.240 -52.259  1.00 43.11      A16S
ATOM  14416  C2* G   A 691     209.369 105.691 -49.822  1.00 45.95      A16S
ATOM  14417  O2* G   A 691     209.047 104.595 -48.986  1.00 45.95      A16S
ATOM  14418  C3* G   A 691     208.160 106.376 -50.449  1.00 45.95      A16S
ATOM  14419  O3* G   A 691     207.056 106.514 -49.573  1.00 45.95      A16S
ATOM  14420  P   U   A 692     206.823 107.900 -48.793  1.00 49.21      A16S
ATOM  14421  O1P U   A 692     205.459 107.805 -48.208  1.00 35.65      A16S
ATOM  14422  O2P U   A 692     207.176 109.057 -49.659  1.00 35.65      A16S
ATOM  14423  O5* U   A 692     207.837 107.797 -47.579  1.00 49.21      A16S
ATOM  14424  C5* U   A 692     207.688 106.720 -46.656  1.00 49.21      A16S
ATOM  14425  C4* U   A 692     208.686 106.836 -45.557  1.00 49.21      A16S
ATOM  14426  O4* U   A 692     209.988 106.413 -46.009  1.00 49.21      A16S
ATOM  14427  C1* U   A 692     210.974 107.207 -45.391  1.00 49.21      A16S
ATOM  14428  N1  U   A 692     211.767 107.844 -46.447  1.00 35.65      A16S
ATOM  14429  C6  U   A 692     211.181 108.372 -47.572  1.00 35.65      A16S
ATOM  14430  C2  U   A 692     213.125 107.887 -46.273  1.00 35.65      A16S
ATOM  14431  O2  U   A 692     213.671 107.434 -45.289  1.00 35.65      A16S
ATOM  14432  N3  U   A 692     213.827 108.484 -47.292  1.00 35.65      A16S
ATOM  14433  C4  U   A 692     213.310 109.042 -48.439  1.00 35.65      A16S
ATOM  14434  O4  U   A 692     214.065 109.637 -49.223  1.00 35.65      A16S
ATOM  14435  C5  U   A 692     211.886 108.951 -48.549  1.00 35.65      A16S
ATOM  14436  C2* U   A 692     210.273 108.189 -44.449  1.00 49.21      A16S
ATOM  14437  O2* U   A 692     210.261 107.655 -43.140  1.00 49.21      A16S
ATOM  14438  C3* U   A 692     208.870 108.241 -45.043  1.00 49.21      A16S
ATOM  14439  O3* U   A 692     207.853 108.525 -44.094  1.00 49.21      A16S
ATOM  14440  P   G   A 693     207.641 110.030 -43.576  1.00 50.97      A16S
ATOM  14441  O1P G   A 693     206.319 110.011 -42.904  1.00 38.52      A16S
ATOM  14442  O2P G   A 693     207.864 110.978 -44.705  1.00 38.52      A16S
ATOM  14443  O5* G   A 693     208.806 110.222 -42.491  1.00 50.97      A16S
ATOM  14444  C5* G   A 693     209.093 111.527 -41.935  1.00 50.97      A16S
ATOM  14445  C4* G   A 693     210.351 111.501 -41.092  1.00 50.97      A16S
ATOM  14446  O4* G   A 693     210.167 110.655 -39.936  1.00 50.97      A16S
ATOM  14447  C1* G   A 693     211.389 110.037 -39.593  1.00 50.97      A16S
ATOM  14448  N9  G   A 693     211.190 108.594 -39.610  1.00 38.52      A16S
ATOM  14449  C4  G   A 693     212.027 107.636 -39.092  1.00 38.52      A16S
ATOM  14450  N3  G   A 693     213.225 107.853 -38.528  1.00 38.52      A16S
ATOM  14451  C2  G   A 693     213.779 106.729 -38.107  1.00 38.52      A16S
ATOM  14452  N2  G   A 693     214.992 106.743 -37.537  1.00 38.52      A16S
ATOM  14453  N1  G   A 693     213.196 105.502 -38.217  1.00 38.52      A16S
ATOM  14454  C6  G   A 693     211.964 105.256 -38.794  1.00 38.52      A16S
ATOM  14455  O6  G   A 693     211.525 104.101 -38.835  1.00 38.52      A16S
ATOM  14456  C5  G   A 693     211.367 106.442 -39.266  1.00 38.52      A16S
ATOM  14457  N7  G   A 693     210.163 106.636 -39.921  1.00 38.52      A16S
ATOM  14458  C8  G   A 693     210.105 107.926 -40.113  1.00 38.52      A16S
ATOM  14459  C2* G   A 693     212.446 110.528 -40.570  1.00 50.97      A16S
ATOM  14460  O2* G   A 693     213.096 111.625 -39.975  1.00 50.97      A16S
ATOM  14461  C3* G   A 693     211.595 110.956 -41.754  1.00 50.97      A16S
ATOM  14462  O3* G   A 693     212.240 111.951 -42.520  1.00 50.97      A16S
ATOM  14463  P   A   A 694     213.007 111.525 -43.862  1.00 39.04      A16S
ATOM  14464  O1P A   A 694     213.776 112.723 -44.284  1.00 34.56      A16S
ATOM  14465  O2P A   A 694     212.004 110.918 -44.799  1.00 34.56      A16S
ATOM  14466  O5* A   A 694     214.044 110.423 -43.358  1.00 39.04      A16S
ATOM  14467  C5* A   A 694     215.188 110.827 -42.588  1.00 39.04      A16S
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ATOM  14468  C4* A   A 694     216.080 109.652 -42.272  1.00 39.04      A16S
ATOM  14469  O4* A   A 694     215.499 108.831 -41.239  1.00 39.04      A16S
ATOM  14470  C1* A   A 694     215.836 107.478 -41.457  1.00 39.04      A16S
ATOM  14471  N9  A   A 694     214.600 106.752 -41.706  1.00 34.56      A16S
ATOM  14472  C4  A   A 694     214.369 105.419 -41.497  1.00 34.56      A16S
ATOM  14473  N3  A   A 694     215.226 104.513 -41.012  1.00 34.56      A16S
ATOM  14474  C2  A   A 694     214.649 103.324 -40.946  1.00 34.56      A16S
ATOM  14475  N1  A   A 694     213.411 102.971 -41.283  1.00 34.56      A16S
ATOM  14476  C6  A   A 694     212.581 103.912 -41.766  1.00 34.56      A16S
ATOM  14477  N6  A   A 694     211.333 103.568 -42.092  1.00 34.56      A16S
ATOM  14478  C5  A   A 694     213.070 105.198 -41.890  1.00 34.56      A16S
ATOM  14479  N7  A   A 694     212.489 106.366 -42.346  1.00 34.56      A16S
ATOM  14480  C8  A   A 694     213.435 107.258 -42.213  1.00 34.56      A16S
ATOM  14481  C2* A   A 694     216.743 107.421 -42.679  1.00 39.04      A16S
ATOM  14482  O2* A   A 694     218.082 107.402 -42.249  1.00 39.04      A16S
ATOM  14483  C3* A   A 694     216.359 108.701 -43.408  1.00 39.04      A16S
ATOM  14484  O3* A   A 694     217.402 109.184 -44.227  1.00 39.04      A16S
ATOM  14485  P   A   A 695     217.674 108.488 -45.644  1.00 41.68      A16S
ATOM  14486  O1P A   A 695     219.162 108.426 -45.806  1.00 22.07      A16S
ATOM  14487  O2P A   A 695     216.845 109.194 -46.670  1.00 22.07      A16S
ATOM  14488  O5* A   A 695     217.133 107.007 -45.414  1.00 41.68      A16S
ATOM  14489  C5* A   A 695     217.586 105.914 -46.207  1.00 41.68      A16S
ATOM  14490  C4* A   A 695     217.506 104.636 -45.414  1.00 41.68      A16S
ATOM  14491  O4* A   A 695     216.366 104.675 -44.529  1.00 41.68      A16S
ATOM  14492  C1* A   A 695     215.774 103.392 -44.452  1.00 41.68      A16S
ATOM  14493  N9  A   A 695     214.385 103.506 -44.897  1.00 22.07      A16S
ATOM  14494  C4  A   A 695     213.406 102.542 -44.803  1.00 22.07      A16S
ATOM  14495  N3  A   A 695     213.507 101.313 -44.262  1.00 22.07      A16S
ATOM  14496  C2  A   A 695     212.359 100.650 -44.388  1.00 22.07      A16S
ATOM  14497  N1  A   A 695     211.218 101.040 -44.955  1.00 22.07      A16S
ATOM  14498  C6  A   A 695     211.157 102.282 -45.487  1.00 22.07      A16S
ATOM  14499  N6  A   A 695     210.031 102.682 -46.072  1.00 22.07      A16S
ATOM  14500  C5  A   A 695     212.290 103.086 -45.405  1.00 22.07      A16S
ATOM  14501  N7  A   A 695     212.541 104.376 -45.838  1.00 22.07      A16S
ATOM  14502  C8  A   A 695     213.792 104.577 -45.511  1.00 22.07      A16S
ATOM  14503  C2* A   A 695     216.602 102.437 -45.312  1.00 41.68      A16S
ATOM  14504  O2* A   A 695     217.501 101.719 -44.505  1.00 41.68      A16S
ATOM  14505  C3* A   A 695     217.299 103.398 -46.262  1.00 41.68      A16S
ATOM  14506  O3* A   A 695     218.527 102.907 -46.765  1.00 41.68      A16S
ATOM  14507  P   A   A 696     218.602 102.370 -48.274  1.00 36.85      A16S
ATOM  14508  O1P A   A 696     220.051 102.205 -48.582  1.00 25.72      A16S
ATOM  14509  O2P A   A 696     217.752 103.215 -49.180  1.00 25.72      A16S
ATOM  14510  O5* A   A 696     217.967 100.918 -48.142  1.00 36.85      A16S
ATOM  14511  C5* A   A 696     218.593  99.942 -47.305  1.00 36.85      A16S
ATOM  14512  C4* A   A 696     217.650  98.811 -47.030  1.00 36.85      A16S
ATOM  14513  O4* A   A 696     216.511  99.354 -46.327  1.00 36.85      A16S
ATOM  14514  C1* A   A 696     215.320  98.748 -46.796  1.00 36.85      A16S
ATOM  14515  N9  A   A 696     214.529  99.797 -47.447  1.00 25.72      A16S
ATOM  14516  C4  A   A 696     213.181  99.795 -47.680  1.00 25.72      A16S
ATOM  14517  N3  A   A 696     212.308  98.821 -47.390  1.00 25.72      A16S
ATOM  14518  C2  A   A 696     211.081  99.175 -47.743  1.00 25.72      A16S
ATOM  14519  N1  A   A 696     210.658 100.308 -48.306  1.00 25.72      A16S
ATOM  14520  C6  A   A 696     211.564 101.276 -48.571  1.00 25.72      A16S
ATOM  14521  N6  A   A 696     211.143 102.432 -49.100  1.00 25.72      A16S
ATOM  14522  C5  A   A 696     212.898 101.017 -48.260  1.00 25.72      A16S
ATOM  14523  N7  A   A 696     214.048 101.774 -48.412  1.00 25.72      A16S
ATOM  14524  C8  A   A 696     214.986 101.007 -47.924  1.00 25.72      A16S
ATOM  14525  C2* A   A 696     215.738  97.597 -47.709  1.00 36.85      A16S
ATOM  14526  O2* A   A 696     215.929  96.437 -46.909  1.00 36.85      A16S
ATOM  14527  C3* A   A 696     217.064  98.114 -48.248  1.00 36.85      A16S
ATOM  14528  O3* A   A 696     217.904  97.069 -48.722  1.00 36.85      A16S
ATOM  14529  P   U   A 697     217.873  96.670 -50.283  1.00 42.32      A16S
ATOM  14530  O1P U   A 697     218.963  95.686 -50.492  1.00 40.80      A16S
ATOM  14531  O2P U   A 697     217.827  97.903 -51.123  1.00 40.80      A16S
ATOM  14532  O5* U   A 697     216.488  95.899 -50.450  1.00 42.32      A16S
ATOM  14533  C5* U   A 697     216.173  94.789 -49.596  1.00 42.32      A16S
ATOM  14534  C4* U   A 697     214.688  94.528 -49.575  1.00 42.32      A16S
ATOM  14535  O4* U   A 697     213.970  95.667 -49.037  1.00 42.32      A16S
ATOM  14536  C1* U   A 697     212.669  95.715 -49.600  1.00 42.32      A16S
ATOM  14537  N1  U   A 697     212.455  97.010 -50.266  1.00 40.80      A16S
ATOM  14538  C6  U   A 697     213.491  97.774 -50.728  1.00 40.80      A16S
ATOM  14539  C2  U   A 697     211.150  97.428 -50.418  1.00 40.80      A16S
ATOM  14540  O2  U   A 697     210.211  96.786 -50.018  1.00 40.80      A16S
ATOM  14541  N3  U   A 697     210.985  98.624 -51.055  1.00 40.80      A16S
ATOM  14542  C4  U   A 697     211.973  99.435 -51.549  1.00 40.80      A16S
ATOM  14543  O4  U   A 697     211.666 100.481 -52.134  1.00 40.80      A16S
ATOM  14544  C5  U   A 697     213.302  98.942 -51.349  1.00 40.80      A16S
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ATOM  14545  C2*  U   A 697     212.561  94.562 -50.588  1.00 42.32      A16S
ATOM  14546  O2*  U   A 697     211.941  93.462 -49.954  1.00 42.32      A16S
ATOM  14547  C3*  U   A 697     214.022  94.303 -50.908  1.00 42.32      A16S
ATOM  14548  O3*  U   A 697     214.217  93.006 -51.389  1.00 42.32      A16S
ATOM  14549  P    G   A 698     214.617  92.804 -52.929  1.00 46.49      A16S
ATOM  14550  O1P  G   A 698     214.425  91.349 -53.198  1.00 22.67      A16S
ATOM  14551  O2P  G   A 698     215.941  93.445 -53.156  1.00 22.67      A16S
ATOM  14552  O5*  G   A 698     213.556  93.651 -53.767  1.00 46.49      A16S
ATOM  14553  C5*  G   A 698     212.180  93.272 -53.806  1.00 46.49      A16S
ATOM  14554  C4*  G   A 698     211.381  94.307 -54.544  1.00 46.49      A16S
ATOM  14555  O4*  G   A 698     211.484  95.587 -53.879  1.00 46.49      A16S
ATOM  14556  C1*  G   A 698     211.448  96.634 -54.833  1.00 46.49      A16S
ATOM  14557  N9   G   A 698     212.693  97.380 -54.724  1.00 22.67      A16S
ATOM  14558  C4   G   A 698     213.009  98.594 -55.295  1.00 22.67      A16S
ATOM  14559  N3   G   A 698     212.213  99.341 -56.076  1.00 22.67      A16S
ATOM  14560  C2   G   A 698     212.814 100.455 -56.476  1.00 22.67      A16S
ATOM  14561  N2   G   A 698     212.171 101.330 -57.243  1.00 22.67      A16S
ATOM  14562  N1   G   A 698     214.086 100.796 -56.150  1.00 22.67      A16S
ATOM  14563  C6   G   A 698     214.926 100.039 -55.347  1.00 22.67      A16S
ATOM  14564  O6   G   A 698     216.078 100.431 -55.111  1.00 22.67      A16S
ATOM  14565  C5   G   A 698     214.294  98.855 -54.900  1.00 22.67      A16S
ATOM  14566  N7   G   A 698     214.778  97.838 -54.092  1.00 22.67      A16S
ATOM  14567  C8   G   A 698     213.795  96.989 -54.017  1.00 22.67      A16S
ATOM  14568  C2*  G   A 698     211.275  95.986 -56.199  1.00 46.49      A16S
ATOM  14569  O2*  G   A 698     209.891  95.955 -56.480  1.00 46.49      A16S
ATOM  14570  C3*  G   A 698     211.840  94.597 -55.949  1.00 46.49      A16S
ATOM  14571  O3*  G   A 698     211.326  93.632 -56.835  1.00 46.49      A16S
ATOM  14572  P    C   A 699     212.282  93.022 -57.969  1.00 35.81      A16S
ATOM  14573  O1P  C   A 699     211.563  91.837 -58.537  1.00 38.87      A16S
ATOM  14574  O2P  C   A 699     213.637  92.847 -57.372  1.00 38.87      A16S
ATOM  14575  O5*  C   A 699     212.336  94.174 -59.070  1.00 35.81      A16S
ATOM  14576  C5*  C   A 699     211.170  94.471 -59.829  1.00 35.81      A16S
ATOM  14577  C4*  C   A 699     211.256  95.849 -60.412  1.00 35.81      A16S
ATOM  14578  O4*  C   A 699     211.473  96.809 -59.352  1.00 35.81      A16S
ATOM  14579  C1*  C   A 699     212.155  97.941 -59.865  1.00 35.81      A16S
ATOM  14580  N1   C   A 699     213.432  98.088 -59.158  1.00 38.87      A16S
ATOM  14581  C6   C   A 699     213.901  97.105 -58.334  1.00 38.87      A16S
ATOM  14582  C2   C   A 699     214.188  99.253 -59.372  1.00 38.87      A16S
ATOM  14583  O2   C   A 699     213.725 100.147 -60.104  1.00 38.87      A16S
ATOM  14584  N3   C   A 699     215.395  99.373 -58.783  1.00 38.87      A16S
ATOM  14585  C4   C   A 699     215.854  98.394 -58.002  1.00 38.87      A16S
ATOM  14586  N4   C   A 699     217.059  98.546 -57.454  1.00 38.87      A16S
ATOM  14587  C5   C   A 699     215.096  97.212 -57.746  1.00 38.87      A16S
ATOM  14588  C2*  C   A 699     212.435  97.661 -61.337  1.00 35.81      A16S
ATOM  14589  O2*  C   A 699     211.432  98.244 -62.148  1.00 35.81      A16S
ATOM  14590  C3*  C   A 699     212.399  96.144 -61.357  1.00 35.81      A16S
ATOM  14591  O3*  C   A 699     212.237  95.624 -62.659  1.00 35.81      A16S
ATOM  14592  P    G   A 700     213.521  95.032 -63.415  1.00 43.53      A16S
ATOM  14593  O1P  G   A 700     213.029  94.468 -64.699  1.00 44.51      A16S
ATOM  14594  O2P  G   A 700     214.259  94.156 -62.469  1.00 44.51      A16S
ATOM  14595  O5*  G   A 700     214.390  96.334 -63.686  1.00 43.53      A16S
ATOM  14596  C5*  G   A 700     213.869  97.357 -64.531  1.00 43.53      A16S
ATOM  14597  C4*  G   A 700     214.950  98.319 -64.923  1.00 43.53      A16S
ATOM  14598  O4*  G   A 700     215.209  99.242 -63.846  1.00 43.53      A16S
ATOM  14599  C1*  G   A 700     216.576  99.600 -63.850  1.00 43.53      A16S
ATOM  14600  N9   G   A 700     217.167  99.124 -62.612  1.00 44.51      A16S
ATOM  14601  C4   G   A 700     218.263  99.657 -62.000  1.00 44.51      A16S
ATOM  14602  N3   G   A 700     218.955 100.727 -62.430  1.00 44.51      A16S
ATOM  14603  C2   G   A 700     219.975 100.995 -61.655  1.00 44.51      A16S
ATOM  14604  N2   G   A 700     220.765 102.029 -61.947  1.00 44.51      A16S
ATOM  14605  N1   G   A 700     220.295 100.270 -60.539  1.00 44.51      A16S
ATOM  14606  C6   G   A 700     219.592  99.159 -60.077  1.00 44.51      A16S
ATOM  14607  O6   G   A 700     219.967  98.568 -59.051  1.00 44.51      A16S
ATOM  14608  C5   G   A 700     218.492  98.865 -60.906  1.00 44.51      A16S
ATOM  14609  N7   G   A 700     217.545  97.857 -60.821  1.00 44.51      A16S
ATOM  14610  C8   G   A 700     216.775  98.054 -61.854  1.00 44.51      A16S
ATOM  14611  C2*  G   A 700     217.244  98.890 -65.022  1.00 43.53      A16S
ATOM  14612  O2*  G   A 700     217.318  99.740 -66.149  1.00 43.53      A16S
ATOM  14613  C3*  G   A 700     216.305  97.712 -65.221  1.00 43.53      A16S
ATOM  14614  O3*  G   A 700     216.409  97.158 -66.516  1.00 43.53      A16S
ATOM  14615  P    C   A 701     217.493  96.017 -66.778  1.00 45.21      A16S
ATOM  14616  O1P  C   A 701     216.936  95.222 -67.893  1.00 56.41      A16S
ATOM  14617  O2P  C   A 701     217.800  95.348 -65.479  1.00 56.41      A16S
ATOM  14618  O5*  C   A 701     218.779  96.841 -67.241  1.00 45.21      A16S
ATOM  14619  C5*  C   A 701     219.044  97.063 -68.636  1.00 45.21      A16S
ATOM  14620  C4*  C   A 701     220.530  97.118 -68.901  1.00 45.21      A16S
ATOM  14621  O4*  C   A 701     221.049  98.442 -68.701  1.00 45.21      A16S
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ATOM  14622  C1* C   A 701     222.444  98.330 -68.637  1.00 45.21      A16S
ATOM  14623  N1  C   A 701     223.022  99.524 -68.000  1.00 56.41      A16S
ATOM  14624  C6  C   A 701     222.388 100.177 -66.984  1.00 56.41      A16S
ATOM  14625  C2  C   A 701     224.246  99.990 -68.476  1.00 56.41      A16S
ATOM  14626  O2  C   A 701     224.820  99.357 -69.378  1.00 56.41      A16S
ATOM  14627  N3  C   A 701     224.783 101.110 -67.949  1.00 56.41      A16S
ATOM  14628  C4  C   A 701     224.151 101.753 -66.976  1.00 56.41      A16S
ATOM  14629  N4  C   A 701     224.712 102.866 -66.506  1.00 56.41      A16S
ATOM  14630  C5  C   A 701     222.914 101.286 -66.447  1.00 56.41      A16S
ATOM  14631  C2* C   A 701     222.771  96.981 -67.989  1.00 45.21      A16S
ATOM  14632  O2* C   A 701     223.793  96.338 -68.719  1.00 45.21      A16S
ATOM  14633  C3* C   A 701     221.422  96.253 -68.025  1.00 45.21      A16S
ATOM  14634  O3* C   A 701     221.462  94.866 -68.423  1.00 45.21      A16S
ATOM  14635  P   A   A 702     221.872  94.431 -69.934  1.00 42.56      A16S
ATOM  14636  O1P A   A 702     222.720  93.212 -69.833  1.00 69.59      A16S
ATOM  14637  O2P A   A 702     222.357  95.596 -70.724  1.00 69.59      A16S
ATOM  14638  O5* A   A 702     220.480  93.979 -70.550  1.00 42.56      A16S
ATOM  14639  C5* A   A 702     220.148  94.316 -71.890  1.00 42.56      A16S
ATOM  14640  C4* A   A 702     218.716  93.959 -72.185  1.00 42.56      A16S
ATOM  14641  O4* A   A 702     218.508  92.533 -72.007  1.00 42.56      A16S
ATOM  14642  C1* A   A 702     217.282  92.312 -71.370  1.00 42.56      A16S
ATOM  14643  N9  A   A 702     217.357  91.027 -70.688  1.00 69.59      A16S
ATOM  14644  C4  A   A 702     216.641  89.904 -71.019  1.00 69.59      A16S
ATOM  14645  N3  A   A 702     215.733  89.774 -72.000  1.00 69.59      A16S
ATOM  14646  C2  A   A 702     215.247  88.532 -72.029  1.00 69.59      A16S
ATOM  14647  N1  A   A 702     215.547  87.485 -71.249  1.00 69.59      A16S
ATOM  14648  C6  A   A 702     216.467  87.652 -70.276  1.00 69.59      A16S
ATOM  14649  N6  A   A 702     216.772  86.611 -69.500  1.00 69.59      A16S
ATOM  14650  C5  A   A 702     217.053  88.921 -70.140  1.00 69.59      A16S
ATOM  14651  N7  A   A 702     218.005  89.416 -69.267  1.00 69.59      A16S
ATOM  14652  C8  A   A 702     218.144  90.669 -69.632  1.00 69.59      A16S
ATOM  14653  C2* A   A 702     217.055  93.547 -70.511  1.00 42.56      A16S
ATOM  14654  O2* A   A 702     215.666  93.695 -70.318  1.00 42.56      A16S
ATOM  14655  C3* A   A 702     217.612  94.654 -71.408  1.00 42.56      A16S
ATOM  14656  O3* A   A 702     216.642  95.016 -72.374  1.00 42.56      A16S
ATOM  14657  P   G   A 703     215.738  96.318 -72.156  1.00 45.35      A16S
ATOM  14658  O1P G   A 703     214.453  95.823 -71.580  1.00 75.74      A16S
ATOM  14659  O2P G   A 703     215.728  97.080 -73.429  1.00 75.74      A16S
ATOM  14660  O5* G   A 703     216.535  97.200 -71.092  1.00 45.35      A16S
ATOM  14661  C5* G   A 703     215.880  97.731 -69.923  1.00 45.35      A16S
ATOM  14662  C4* G   A 703     216.193  99.199 -69.772  1.00 45.35      A16S
ATOM  14663  O4* G   A 703     217.626  99.341 -69.660  1.00 45.35      A16S
ATOM  14664  C1* G   A 703     218.105 100.214 -70.662  1.00 45.35      A16S
ATOM  14665  N9  G   A 703     219.382  99.697 -71.147  1.00 75.74      A16S
ATOM  14666  C4  G   A 703     220.599 100.330 -71.092  1.00 75.74      A16S
ATOM  14667  N3  G   A 703     220.832 101.555 -70.587  1.00 75.74      A16S
ATOM  14668  C2  G   A 703     222.110 101.886 -70.666  1.00 75.74      A16S
ATOM  14669  N2  G   A 703     222.526 103.077 -70.206  1.00 75.74      A16S
ATOM  14670  N1  G   A 703     223.079 101.079 -71.200  1.00 75.74      A16S
ATOM  14671  C6  G   A 703     222.862  99.813 -71.725  1.00 75.74      A16S
ATOM  14672  O6  G   A 703     223.814  99.162 -72.178  1.00 75.74      A16S
ATOM  14673  C5  G   A 703     221.497  99.446 -71.647  1.00 75.74      A16S
ATOM  14674  N7  G   A 703     220.859  98.285 -72.050  1.00 75.74      A16S
ATOM  14675  C8  G   A 703     219.608  98.479 -71.738  1.00 75.74      A16S
ATOM  14676  C2* G   A 703     217.028 100.269 -71.738  1.00 45.35      A16S
ATOM  14677  O2* G   A 703     217.068 101.525 -72.378  1.00 45.35      A16S
ATOM  14678  C3* G   A 703     215.755 100.096 -70.924  1.00 45.35      A16S
ATOM  14679  O3* G   A 703     215.368 101.377 -70.432  1.00 45.35      A16S
ATOM  14680  P   A   A 704     213.971 102.026 -70.896  1.00 35.29      A16S
ATOM  14681  O1P A   A 704     213.300 101.047 -71.781  1.00 47.06      A16S
ATOM  14682  O2P A   A 704     214.177 103.415 -71.369  1.00 47.06      A16S
ATOM  14683  O5* A   A 704     213.151 102.086 -69.539  1.00 35.29      A16S
ATOM  14684  C5* A   A 704     212.674 100.875 -68.932  1.00 35.29      A16S
ATOM  14685  C4* A   A 704     212.757 100.964 -67.425  1.00 35.29      A16S
ATOM  14686  O4* A   A 704     214.144 100.918 -66.993  1.00 35.29      A16S
ATOM  14687  C1* A   A 704     214.302 101.705 -65.830  1.00 35.29      A16S
ATOM  14688  N9  A   A 704     215.251 102.782 -66.119  1.00 47.06      A16S
ATOM  14689  C4  A   A 704     215.710 103.687 -65.194  1.00 47.06      A16S
ATOM  14690  N3  A   A 704     215.384 103.749 -63.895  1.00 47.06      A16S
ATOM  14691  C2  A   A 704     216.019 104.746 -63.307  1.00 47.06      A16S
ATOM  14692  N1  A   A 704     216.885 105.615 -63.821  1.00 47.06      A16S
ATOM  14693  C6  A   A 704     217.200 105.522 -65.124  1.00 47.06      A16S
ATOM  14694  N6  A   A 704     218.085 106.380 -65.618  1.00 47.06      A16S
ATOM  14695  C5  A   A 704     216.579 104.516 -65.872  1.00 47.06      A16S
ATOM  14696  N7  A   A 704     216.664 104.152 -67.207  1.00 47.06      A16S
ATOM  14697  C8  A   A 704     215.859 103.119 -67.303  1.00 47.06      A16S
ATOM  14698  C2* A   A 704     212.924 102.254 -65.449  1.00 35.29      A16S
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ATOM	14699	O2*	A	A	704	212.342	101.421	-64.457	1.00	35.29	A16S
ATOM	14700	C3*	A	A	704	212.204	102.231	-66.794	1.00	35.29	A16S
ATOM	14701	O3*	A	A	704	210.780	102.234	-66.702	1.00	35.29	A16S
ATOM	14702	P	U	A	705	209.957	103.508	-67.252	1.00	44.39	A16S
ATOM	14703	O1P	U	A	705	208.508	103.225	-67.043	1.00	59.04	A16S
ATOM	14704	O2P	U	A	705	210.437	103.855	-68.613	1.00	59.04	A16S
ATOM	14705	O5*	U	A	705	210.403	104.686	-66.272	1.00	44.39	A16S
ATOM	14706	C5*	U	A	705	210.180	104.584	-64.847	1.00	44.39	A16S
ATOM	14707	C4*	U	A	705	210.872	105.705	-64.097	1.00	44.39	A16S
ATOM	14708	O4*	U	A	705	212.311	105.552	-64.169	1.00	44.39	A16S
ATOM	14709	C1*	U	A	705	212.926	106.826	-64.111	1.00	44.39	A16S
ATOM	14710	N1	U	A	705	213.744	107.019	-65.320	1.00	59.04	A16S
ATOM	14711	C6	U	A	705	213.593	106.229	-66.433	1.00	59.04	A16S
ATOM	14712	C2	U	A	705	214.649	108.055	-65.315	1.00	59.04	A16S
ATOM	14713	O2	U	A	705	214.886	108.718	-64.330	1.00	59.04	A16S
ATOM	14714	N3	U	A	705	215.283	108.277	-66.502	1.00	59.04	A16S
ATOM	14715	C4	U	A	705	215.140	107.561	-67.662	1.00	59.04	A16S
ATOM	14716	O4	U	A	705	215.694	107.963	-68.686	1.00	59.04	A16S
ATOM	14717	C5	U	A	705	214.244	106.456	-67.571	1.00	59.04	A16S
ATOM	14718	C2*	U	A	705	211.815	107.879	-63.983	1.00	44.39	A16S
ATOM	14719	O2*	U	A	705	211.667	108.253	-62.621	1.00	44.39	A16S
ATOM	14720	C3*	U	A	705	210.598	107.137	-64.534	1.00	44.39	A16S
ATOM	14721	O3*	U	A	705	209.391	107.630	-63.950	1.00	44.39	A16S
ATOM	14722	P	A	A	706	208.307	108.404	-64.857	1.00	39.77	A16S
ATOM	14723	O1P	A	A	706	207.231	108.882	-63.959	1.00	55.92	A16S
ATOM	14724	O2P	A	A	706	207.958	107.551	-66.017	1.00	55.92	A16S
ATOM	14725	O5*	A	A	706	209.080	109.690	-65.381	1.00	39.77	A16S
ATOM	14726	C5*	A	A	706	209.407	110.767	-64.500	1.00	39.77	A16S
ATOM	14727	C4*	A	A	706	210.209	111.792	-65.242	1.00	39.77	A16S
ATOM	14728	O4*	A	A	706	211.493	111.226	-65.594	1.00	39.77	A16S
ATOM	14729	C1*	A	A	706	211.887	111.679	-66.884	1.00	39.77	A16S
ATOM	14730	N9	A	A	706	212.025	110.521	-67.768	1.00	55.92	A16S
ATOM	14731	C4	A	A	706	212.834	110.444	-68.869	1.00	55.92	A16S
ATOM	14732	N3	A	A	706	213.639	111.399	-69.351	1.00	55.92	A16S
ATOM	14733	C2	A	A	706	214.268	110.966	-70.432	1.00	55.92	A16S
ATOM	14734	N1	A	A	706	214.195	109.774	-71.035	1.00	55.92	A16S
ATOM	14735	C6	A	A	706	213.380	108.836	-70.512	1.00	55.92	A16S
ATOM	14736	N6	A	A	706	213.318	107.637	-71.093	1.00	55.92	A16S
ATOM	14737	C5	A	A	706	212.650	109.176	-69.381	1.00	55.92	A16S
ATOM	14738	N7	A	A	706	211.731	108.470	-68.629	1.00	55.92	A16S
ATOM	14739	C8	A	A	706	211.392	109.308	-67.685	1.00	55.92	A16S
ATOM	14740	C2*	A	A	706	210.812	112.638	-67.378	1.00	39.77	A16S
ATOM	14741	O2*	A	A	706	211.167	113.966	-67.069	1.00	39.77	A16S
ATOM	14742	C3*	A	A	706	209.615	112.166	-66.580	1.00	39.77	A16S
ATOM	14743	O3*	A	A	706	208.616	113.137	-66.485	1.00	39.77	A16S
ATOM	14744	P	C	A	707	207.360	113.025	-67.452	1.00	43.43	A16S
ATOM	14745	O1P	C	A	707	206.471	114.165	-67.130	1.00	40.57	A16S
ATOM	14746	O2P	C	A	707	206.861	111.622	-67.365	1.00	40.57	A16S
ATOM	14747	O5*	C	A	707	207.989	113.250	-68.889	1.00	43.43	A16S
ATOM	14748	C5*	C	A	707	208.566	114.509	-69.222	1.00	43.43	A16S
ATOM	14749	C4*	C	A	707	208.911	114.554	-70.685	1.00	43.43	A16S
ATOM	14750	O4*	C	A	707	210.056	113.707	-70.949	1.00	43.43	A16S
ATOM	14751	C1*	C	A	707	209.955	113.174	-72.255	1.00	43.43	A16S
ATOM	14752	N1	C	A	707	209.985	111.709	-72.171	1.00	40.57	A16S
ATOM	14753	C6	C	A	707	209.964	111.062	-70.969	1.00	40.57	A16S
ATOM	14754	C2	C	A	707	210.022	110.980	-73.359	1.00	40.57	A16S
ATOM	14755	O2	C	A	707	210.050	111.595	-74.437	1.00	40.57	A16S
ATOM	14756	N3	C	A	707	210.022	109.632	-73.314	1.00	40.57	A16S
ATOM	14757	C4	C	A	707	209.991	109.009	-72.141	1.00	40.57	A16S
ATOM	14758	N4	C	A	707	209.985	107.680	-72.148	1.00	40.57	A16S
ATOM	14759	C5	C	A	707	209.962	109.725	-70.907	1.00	40.57	A16S
ATOM	14760	C2*	C	A	707	208.652	113.689	-72.875	1.00	43.43	A16S
ATOM	14761	O2*	C	A	707	208.907	114.808	-73.704	1.00	43.43	A16S
ATOM	14762	C3*	C	A	707	207.844	114.051	-71.638	1.00	43.43	A16S
ATOM	14763	O3*	C	A	707	206.842	115.017	-71.910	1.00	43.43	A16S
ATOM	14764	P	C	A	708	205.428	114.537	-72.501	1.00	47.15	A16S
ATOM	14765	O1P	C	A	708	204.522	115.720	-72.519	1.00	47.33	A16S
ATOM	14766	O2P	C	A	708	205.003	113.300	-71.783	1.00	47.33	A16S
ATOM	14767	O5*	C	A	708	205.788	114.133	-74.001	1.00	47.15	A16S
ATOM	14768	C5*	C	A	708	206.264	115.117	-74.931	1.00	47.15	A16S
ATOM	14769	C4*	C	A	708	206.454	114.504	-76.298	1.00	47.15	A16S
ATOM	14770	O4*	C	A	708	207.543	113.548	-76.256	1.00	47.15	A16S
ATOM	14771	C1*	C	A	708	207.291	112.505	-77.185	1.00	47.15	A16S
ATOM	14772	N1	C	A	708	207.256	111.217	-76.471	1.00	47.33	A16S
ATOM	14773	C6	C	A	708	207.269	111.157	-75.111	1.00	47.33	A16S
ATOM	14774	C2	C	A	708	207.211	110.038	-77.228	1.00	47.33	A16S
ATOM	14775	O2	C	A	708	207.174	110.118	-78.470	1.00	47.33	A16S

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ATOM  14776  N3   C   A 708     207.202 108.849 -76.597  1.00 47.33      A16S
ATOM  14777  C4   C   A 708     207.228 108.805 -75.272  1.00 47.33      A16S
ATOM  14778  N4   C   A 708     207.229 107.613 -74.697  1.00 47.33      A16S
ATOM  14779  C5   C   A 708     207.256 109.983 -74.478  1.00 47.33      A16S
ATOM  14780  C2*  C   A 708     205.958 112.792 -77.868  1.00 47.15      A16S
ATOM  14781  O2*  C   A 708     206.161 113.423 -79.113  1.00 47.15      A16S
ATOM  14782  C3*  C   A 708     205.292 113.693 -76.846  1.00 47.15      A16S
ATOM  14783  O3*  C   A 708     204.252 114.445 -77.424  1.00 47.15      A16S
ATOM  14784  P    G   A 709     202.773 113.824 -77.429  1.00 71.37      A16S
ATOM  14785  O1P  G   A 709     201.859 114.865 -77.947  1.00 66.81      A16S
ATOM  14786  O2P  G   A 709     202.522 113.221 -76.095  1.00 66.81      A16S
ATOM  14787  O5*  G   A 709     202.864 112.631 -78.479  1.00 71.37      A16S
ATOM  14788  C5*  G   A 709     203.099 112.904 -79.866  1.00 71.37      A16S
ATOM  14789  C4*  G   A 709     203.094 111.629 -80.669  1.00 71.37      A16S
ATOM  14790  O4*  G   A 709     204.241 110.818 -80.316  1.00 71.37      A16S
ATOM  14791  C1*  G   A 709     203.929 109.452 -80.523  1.00 71.37      A16S
ATOM  14792  N9   G   A 709     204.079 108.728 -79.272  1.00 66.81      A16S
ATOM  14793  C4   G   A 709     204.159 107.375 -79.160  1.00 66.81      A16S
ATOM  14794  N3   G   A 709     204.175 106.508 -80.185  1.00 66.81      A16S
ATOM  14795  C2   G   A 709     204.242 105.263 -79.771  1.00 66.81      A16S
ATOM  14796  N2   G   A 709     204.303 104.274 -80.661  1.00 66.81      A16S
ATOM  14797  N1   G   A 709     204.264 104.894 -78.451  1.00 66.81      A16S
ATOM  14798  C6   G   A 709     204.244 105.774 -77.375  1.00 66.81      A16S
ATOM  14799  O6   G   A 709     204.263 105.336 -76.217  1.00 66.81      A16S
ATOM  14800  C5   G   A 709     204.197 107.118 -77.811  1.00 66.81      A16S
ATOM  14801  N7   G   A 709     204.179 108.299 -77.086  1.00 66.81      A16S
ATOM  14802  C8   G   A 709     204.116 109.230 -77.997  1.00 66.81      A16S
ATOM  14803  C2*  G   A 709     202.470 109.359 -80.959  1.00 71.37      A16S
ATOM  14804  O2*  G   A 709     202.385 109.182 -82.357  1.00 71.37      A16S
ATOM  14805  C3*  G   A 709     201.919 110.689 -80.470  1.00 71.37      A16S
ATOM  14806  O3*  G   A 709     200.761 111.059 -81.188  1.00 71.37      A16S
ATOM  14807  P    G   A 710     199.325 110.588 -80.647  1.00 58.54      A16S
ATOM  14808  O1P  G   A 710     198.332 111.300 -81.495  1.00 74.20      A16S
ATOM  14809  O2P  G   A 710     199.288 110.769 -79.173  1.00 74.20      A16S
ATOM  14810  O5*  G   A 710     199.283 109.025 -80.957  1.00 58.54      A16S
ATOM  14811  C5*  G   A 710     199.286 108.567 -82.314  1.00 58.54      A16S
ATOM  14812  C4*  G   A 710     199.467 107.073 -82.385  1.00 58.54      A16S
ATOM  14813  O4*  G   A 710     200.715 106.704 -81.746  1.00 58.54      A16S
ATOM  14814  C1*  G   A 710     200.597 105.404 -81.190  1.00 58.54      A16S
ATOM  14815  N9   G   A 710     200.807 105.477 -79.746  1.00 74.20      A16S
ATOM  14816  C4   G   A 710     200.865 104.402 -78.905  1.00 74.20      A16S
ATOM  14817  N3   G   A 710     200.761 103.114 -79.277  1.00 74.20      A16S
ATOM  14818  C2   G   A 710     200.852 102.300 -78.253  1.00 74.20      A16S
ATOM  14819  N2   G   A 710     200.782 100.979 -78.456  1.00 74.20      A16S
ATOM  14820  N1   G   A 710     201.021 102.719 -76.956  1.00 74.20      A16S
ATOM  14821  C6   G   A 710     201.125 104.044 -76.550  1.00 74.20      A16S
ATOM  14822  O6   G   A 710     201.271 104.315 -75.351  1.00 74.20      A16S
ATOM  14823  C5   G   A 710     201.039 104.927 -77.647  1.00 74.20      A16S
ATOM  14824  N7   G   A 710     201.102 106.310 -77.694  1.00 74.20      A16S
ATOM  14825  C8   G   A 710     200.961 106.594 -78.959  1.00 74.20      A16S
ATOM  14826  C2*  G   A 710     199.195 104.892 -81.502  1.00 58.54      A16S
ATOM  14827  O2*  G   A 710     199.250 104.076 -82.655  1.00 58.54      A16S
ATOM  14828  C3*  G   A 710     198.434 106.200 -81.696  1.00 58.54      A16S
ATOM  14829  O3*  G   A 710     197.239 106.039 -82.449  1.00 58.54      A16S
ATOM  14830  P    G   A 711     195.824 105.954 -81.679  1.00 57.81      A16S
ATOM  14831  O1P  G   A 711     194.785 106.034 -82.733  1.00 51.14      A16S
ATOM  14832  O2P  G   A 711     195.797 106.929 -80.554  1.00 51.14      A16S
ATOM  14833  O5*  G   A 711     195.802 104.487 -81.060  1.00 57.81      A16S
ATOM  14834  C5*  G   A 711     195.879 103.359 -81.920  1.00 57.81      A16S
ATOM  14835  C4*  G   A 711     196.177 102.119 -81.134  1.00 57.81      A16S
ATOM  14836  O4*  G   A 711     197.403 102.290 -80.380  1.00 57.81      A16S
ATOM  14837  C1*  G   A 711     197.387 101.419 -79.263  1.00 57.81      A16S
ATOM  14838  N9   G   A 711     197.670 102.168 -78.044  1.00 51.14      A16S
ATOM  14839  C4   G   A 711     197.893 101.607 -76.815  1.00 51.14      A16S
ATOM  14840  N3   G   A 711     197.918 100.287 -76.547  1.00 51.14      A16S
ATOM  14841  C2   G   A 711     198.158 100.048 -75.274  1.00 51.14      A16S
ATOM  14842  N2   G   A 711     198.245  98.788 -74.845  1.00 51.14      A16S
ATOM  14843  N1   G   A 711     198.339 101.026 -74.331  1.00 51.14      A16S
ATOM  14844  C6   G   A 711     198.312 102.393 -74.584  1.00 51.14      A16S
ATOM  14845  O6   G   A 711     198.482 103.190 -73.661  1.00 51.14      A16S
ATOM  14846  C5   G   A 711     198.074 102.665 -75.956  1.00 51.14      A16S
ATOM  14847  N7   G   A 711     197.985 103.871 -76.635  1.00 51.14      A16S
ATOM  14848  C8   G   A 711     197.747 103.528 -77.872  1.00 51.14      A16S
ATOM  14849  C2*  G   A 711     196.002 100.781 -79.197  1.00 57.81      A16S
ATOM  14850  O2*  G   A 711     196.083  99.472 -79.720  1.00 57.81      A16S
ATOM  14851  C3*  G   A 711     195.184 101.729 -80.064  1.00 57.81      A16S
ATOM  14852  O3*  G   A 711     194.043 101.099 -80.600  1.00 57.81      A16S
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ATOM  14853  P   A   A 712     192.650 101.205 -79.808  1.00 47.10      A16S
ATOM  14854  O1P A   A 712     191.568 100.763 -80.729  1.00 46.76      A16S
ATOM  14855  O2P A   A 712     192.569 102.552 -79.162  1.00 46.76      A16S
ATOM  14856  O5* A   A 712     192.791 100.104 -78.676  1.00 47.10      A16S
ATOM  14857  C5* A   A 712     193.048  98.756 -79.027  1.00 47.10      A16S
ATOM  14858  C4* A   A 712     193.474  97.998 -77.814  1.00 47.10      A16S
ATOM  14859  O4* A   A 712     194.689  98.586 -77.288  1.00 47.10      A16S
ATOM  14860  C1* A   A 712     194.691  98.489 -75.871  1.00 47.10      A16S
ATOM  14861  N9  A   A 712     194.779  99.832 -75.301  1.00 46.76      A16S
ATOM  14862  C4  A   A 712     195.119 100.109 -74.004  1.00 46.76      A16S
ATOM  14863  N3  A   A 712     195.424  99.228 -73.040  1.00 46.76      A16S
ATOM  14864  C2  A   A 712     195.713  99.863 -71.906  1.00 46.76      A16S
ATOM  14865  N1  A   A 712     195.725 101.175 -71.650  1.00 46.76      A16S
ATOM  14866  C6  A   A 712     195.403 102.027 -72.644  1.00 46.76      A16S
ATOM  14867  N6  A   A 712     195.401 103.333 -72.393  1.00 46.76      A16S
ATOM  14868  C5  A   A 712     195.084 101.484 -73.891  1.00 46.76      A16S
ATOM  14869  N7  A   A 712     194.718 102.068 -75.094  1.00 46.76      A16S
ATOM  14870  C8  A   A 712     194.549 101.047 -75.896  1.00 46.76      A16S
ATOM  14871  C2* A   A 712     193.403  97.789 -75.458  1.00 47.10      A16S
ATOM  14872  O2* A   A 712     193.673  96.416 -75.277  1.00 47.10      A16S
ATOM  14873  C3* A   A 712     192.512  98.085 -76.654  1.00 47.10      A16S
ATOM  14874  O3* A   A 712     191.425  97.207 -76.796  1.00 47.10      A16S
ATOM  14875  P   G   A 713     189.975  97.699 -76.330  1.00 62.64      A16S
ATOM  14876  O1P G   A 713     188.966  96.730 -76.848  1.00 32.78      A16S
ATOM  14877  O2P G   A 713     189.850  99.151 -76.652  1.00 32.78      A16S
ATOM  14878  O5* G   A 713     190.033  97.548 -74.748  1.00 62.64      A16S
ATOM  14879  C5* G   A 713     190.257  96.263 -74.162  1.00 62.64      A16S
ATOM  14880  C4* G   A 713     190.604  96.405 -72.708  1.00 62.64      A16S
ATOM  14881  O4* G   A 713     191.780  97.231 -72.565  1.00 62.64      A16S
ATOM  14882  C1* G   A 713     191.709  97.956 -71.357  1.00 62.64      A16S
ATOM  14883  N9  G   A 713     191.805  99.374 -71.674  1.00 32.78      A16S
ATOM  14884  C4  G   A 713     192.330 100.363 -70.875  1.00 32.78      A16S
ATOM  14885  N3  G   A 713     192.840 100.200 -69.636  1.00 32.78      A16S
ATOM  14886  C2  G   A 713     193.278 101.346 -69.128  1.00 32.78      A16S
ATOM  14887  N2  G   A 713     193.837 101.378 -67.897  1.00 32.78      A16S
ATOM  14888  N1  G   A 713     193.208 102.544 -69.784  1.00 32.78      A16S
ATOM  14889  C6  G   A 713     192.684 102.730 -71.052  1.00 32.78      A16S
ATOM  14890  O6  G   A 713     192.672 103.855 -71.549  1.00 32.78      A16S
ATOM  14891  C5  G   A 713     192.220 101.520 -71.608  1.00 32.78      A16S
ATOM  14892  N7  G   A 713     191.631 101.269 -72.834  1.00 32.78      A16S
ATOM  14893  C8  G   A 713     191.400  99.985 -72.828  1.00 32.78      A16S
ATOM  14894  C2* G   A 713     190.406  97.571 -70.668  1.00 62.64      A16S
ATOM  14895  O2* G   A 713     190.695  96.508 -69.789  1.00 62.64      A16S
ATOM  14896  C3* G   A 713     189.574  97.089 -71.842  1.00 62.64      A16S
ATOM  14897  O3* G   A 713     188.586  96.169 -71.442  1.00 62.64      A16S
ATOM  14898  P   G   A 714     187.118  96.701 -71.110  1.00 43.10      A16S
ATOM  14899  O1P G   A 714     186.177  95.548 -71.190  1.00 30.13      A16S
ATOM  14900  O2P G   A 714     186.879  97.898 -71.940  1.00 30.13      A16S
ATOM  14901  O5* G   A 714     187.235  97.173 -69.595  1.00 43.10      A16S
ATOM  14902  C5* G   A 714     187.276  96.203 -68.537  1.00 43.10      A16S
ATOM  14903  C4* G   A 714     187.842  96.824 -67.295  1.00 43.10      A16S
ATOM  14904  O4* G   A 714     189.074  97.474 -67.657  1.00 43.10      A16S
ATOM  14905  C1* G   A 714     189.243  98.638 -66.885  1.00 43.10      A16S
ATOM  14906  N9  G   A 714     189.271  99.784 -67.778  1.00 30.13      A16S
ATOM  14907  C4  G   A 714     189.951 100.948 -67.551  1.00 30.13      A16S
ATOM  14908  N3  G   A 714     190.722 101.208 -66.482  1.00 30.13      A16S
ATOM  14909  C2  G   A 714     191.233 102.415 -66.532  1.00 30.13      A16S
ATOM  14910  N2  G   A 714     192.025 102.842 -65.541  1.00 30.13      A16S
ATOM  14911  N1  G   A 714     191.009 103.295 -67.553  1.00 30.13      A16S
ATOM  14912  C6  G   A 714     190.217 103.044 -68.661  1.00 30.13      A16S
ATOM  14913  O6  G   A 714     190.081 103.912 -69.526  1.00 30.13      A16S
ATOM  14914  C5  G   A 714     189.660 101.756 -68.619  1.00 30.13      A16S
ATOM  14915  N7  G   A 714     188.816 101.109 -69.512  1.00 30.13      A16S
ATOM  14916  C8  G   A 714     188.618  99.938 -68.976  1.00 30.13      A16S
ATOM  14917  C2* G   A 714     188.065  98.730 -65.928  1.00 43.10      A16S
ATOM  14918  O2* G   A 714     188.441  98.084 -64.742  1.00 43.10      A16S
ATOM  14919  C3* G   A 714     187.019  97.930 -66.669  1.00 43.10      A16S
ATOM  14920  O3* G   A 714     186.070  97.403 -65.776  1.00 43.10      A16S
ATOM  14921  P   A   A 715     184.579  97.981 -65.784  1.00 41.36      A16S
ATOM  14922  O1P A   A 715     183.718  96.837 -65.411  1.00 39.45      A16S
ATOM  14923  O2P A   A 715     184.342  98.683 -67.062  1.00 39.45      A16S
ATOM  14924  O5* A   A 715     184.587  99.083 -64.637  1.00 41.36      A16S
ATOM  14925  C5* A   A 715     185.013  98.762 -63.306  1.00 41.36      A16S
ATOM  14926  C4* A   A 715     185.694  99.955 -62.673  1.00 41.36      A16S
ATOM  14927  O4* A   A 715     186.849 100.322 -63.464  1.00 41.36      A16S
ATOM  14928  C1* A   A 715     187.019 101.727 -63.446  1.00 41.36      A16S
ATOM  14929  N9  A   A 715     186.931 102.208 -64.823  1.00 39.45      A16S
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ATOM  14930  C4  A   A 715     187.439 103.385 -65.322  1.00 39.45      A16S
ATOM  14931  N3  A   A 715     188.113 104.333 -64.652  1.00 39.45      A16S
ATOM  14932  C2  A   A 715     188.434 105.331 -65.465  1.00 39.45      A16S
ATOM  14933  N1  A   A 715     188.179 105.476 -66.771  1.00 39.45      A16S
ATOM  14934  C6  A   A 715     187.502 104.499 -67.407  1.00 39.45      A16S
ATOM  14935  N6  A   A 715     187.247 104.629 -68.707  1.00 39.45      A16S
ATOM  14936  C5  A   A 715     187.105 103.397 -66.664  1.00 39.45      A16S
ATOM  14937  N7  A   A 715     186.400 102.258 -67.008  1.00 39.45      A16S
ATOM  14938  C8  A   A 715     186.324 101.585 -65.886  1.00 39.45      A16S
ATOM  14939  C2* A   A 715     185.937 102.316 -62.544  1.00 41.36      A16S
ATOM  14940  O2* A   A 715     186.474 102.490 -61.251  1.00 41.36      A16S
ATOM  14941  C3* A   A 715     184.871 101.229 -62.593  1.00 41.36      A16S
ATOM  14942  O3* A   A 715     184.032 101.227 -61.443  1.00 41.36      A16S
ATOM  14943  P   A   A 716     182.682 102.099 -61.438  1.00 35.37      A16S
ATOM  14944  O1P A   A 716     181.990 101.707 -60.185  1.00 51.05      A16S
ATOM  14945  O2P A   A 716     181.964 101.956 -62.736  1.00 51.05      A16S
ATOM  14946  O5* A   A 716     183.238 103.587 -61.325  1.00 35.37      A16S
ATOM  14947  C5* A   A 716     184.016 103.968 -60.192  1.00 35.37      A16S
ATOM  14948  C4* A   A 716     184.506 105.383 -60.327  1.00 35.37      A16S
ATOM  14949  O4* A   A 716     185.600 105.458 -61.268  1.00 35.37      A16S
ATOM  14950  C1* A   A 716     185.603 106.726 -61.904  1.00 35.37      A16S
ATOM  14951  N9  A   A 716     185.426 106.521 -63.342  1.00 51.05      A16S
ATOM  14952  C4  A   A 716     185.816 107.382 -64.336  1.00 51.05      A16S
ATOM  14953  N3  A   A 716     186.442 108.561 -64.193  1.00 51.05      A16S
ATOM  14954  C2  A   A 716     186.645 109.133 -65.383  1.00 51.05      A16S
ATOM  14955  N1  A   A 716     186.323 108.688 -66.605  1.00 51.05      A16S
ATOM  14956  C6  A   A 716     185.704 107.492 -66.710  1.00 51.05      A16S
ATOM  14957  N6  A   A 716     185.396 107.040 -67.924  1.00 51.05      A16S
ATOM  14958  C5  A   A 716     185.423 106.791 -65.523  1.00 51.05      A16S
ATOM  14959  N7  A   A 716     184.803 105.575 -65.283  1.00 51.05      A16S
ATOM  14960  C8  A   A 716     184.834 105.458 -63.980  1.00 51.05      A16S
ATOM  14961  C2* A   A 716     184.457 107.529 -61.301  1.00 35.37      A16S
ATOM  14962  O2* A   A 716     184.950 108.285 -60.214  1.00 35.37      A16S
ATOM  14963  C3* A   A 716     183.525 106.423 -60.820  1.00 35.37      A16S
ATOM  14964  O3* A   A 716     182.661 106.870 -59.792  1.00 35.37      A16S
ATOM  14965  P   C   A 717     181.556 107.989 -60.121  1.00 37.58      A16S
ATOM  14966  O1P C   A 717     180.800 108.163 -58.853  1.00 40.46      A16S
ATOM  14967  O2P C   A 717     180.826 107.642 -61.384  1.00 40.46      A16S
ATOM  14968  O5* C   A 717     182.430 109.297 -60.377  1.00 37.58      A16S
ATOM  14969  C5* C   A 717     181.847 110.457 -60.980  1.00 37.58      A16S
ATOM  14970  C4* C   A 717     182.911 111.303 -61.632  1.00 37.58      A16S
ATOM  14971  O4* C   A 717     183.592 110.511 -62.626  1.00 37.58      A16S
ATOM  14972  C1* C   A 717     183.483 111.116 -63.891  1.00 37.58      A16S
ATOM  14973  N1  C   A 717     183.135 110.063 -64.853  1.00 40.46      A16S
ATOM  14974  C6  C   A 717     182.490 108.932 -64.438  1.00 40.46      A16S
ATOM  14975  C2  C   A 717     183.472 110.227 -66.193  1.00 40.46      A16S
ATOM  14976  O2  C   A 717     184.045 111.261 -66.543  1.00 40.46      A16S
ATOM  14977  N3  C   A 717     183.167 109.256 -67.071  1.00 40.46      A16S
ATOM  14978  C4  C   A 717     182.557 108.149 -66.652  1.00 40.46      A16S
ATOM  14979  N4  C   A 717     182.304 107.198 -67.545  1.00 40.46      A16S
ATOM  14980  C5  C   A 717     182.189 107.960 -65.296  1.00 40.46      A16S
ATOM  14981  C2* C   A 717     182.381 112.163 -63.803  1.00 37.58      A16S
ATOM  14982  O2* C   A 717     182.736 113.252 -64.626  1.00 37.58      A16S
ATOM  14983  C3* C   A 717     182.412 112.553 -62.338  1.00 37.58      A16S
ATOM  14984  O3* C   A 717     183.372 113.552 -62.163  1.00 37.58      A16S
ATOM  14985  P   G   A 718     183.049 114.804 -61.224  1.00 35.09      A16S
ATOM  14986  O1P G   A 718     182.091 114.390 -60.168  1.00 60.89      A16S
ATOM  14987  O2P G   A 718     182.728 115.962 -62.098  1.00 60.89      A16S
ATOM  14988  O5* G   A 718     184.437 115.070 -60.501  1.00 35.09      A16S
ATOM  14989  C5* G   A 718     184.734 116.346 -59.987  1.00 35.09      A16S
ATOM  14990  C4* G   A 718     186.159 116.722 -60.290  1.00 35.09      A16S
ATOM  14991  O4* G   A 718     186.612 116.152 -61.535  1.00 35.09      A16S
ATOM  14992  C1* G   A 718     187.376 117.107 -62.251  1.00 35.09      A16S
ATOM  14993  N9  G   A 718     186.772 117.261 -63.571  1.00 60.89      A16S
ATOM  14994  C4  G   A 718     187.112 118.173 -64.537  1.00 60.89      A16S
ATOM  14995  N3  G   A 718     188.083 119.095 -64.445  1.00 60.89      A16S
ATOM  14996  C2  G   A 718     188.157 119.836 -65.531  1.00 60.89      A16S
ATOM  14997  N2  G   A 718     189.075 120.809 -65.611  1.00 60.89      A16S
ATOM  14998  N1  G   A 718     187.338 119.681 -66.616  1.00 60.89      A16S
ATOM  14999  C6  G   A 718     186.332 118.732 -66.726  1.00 60.89      A16S
ATOM  15000  O6  G   A 718     185.640 118.677 -67.744  1.00 60.89      A16S
ATOM  15001  C5  G   A 718     186.249 117.936 -65.583  1.00 60.89      A16S
ATOM  15002  N7  G   A 718     185.397 116.885 -65.292  1.00 60.89      A16S
ATOM  15003  C8  G   A 718     185.742 116.517 -64.091  1.00 60.89      A16S
ATOM  15004  C2* G   A 718     187.445 118.391 -61.413  1.00 35.09      A16S
ATOM  15005  O2* G   A 718     188.690 118.517 -60.756  1.00 35.09      A16S
ATOM  15006  C3* G   A 718     186.260 118.214 -60.471  1.00 35.09      A16S
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ATOM  15007  O3* G   A 718     186.364 118.809 -59.191  1.00 35.09      A16S
ATOM  15008  P    C   A 719     185.064 119.491 -58.543  1.00 52.91      A16S
ATOM  15009  O1P C   A 719     185.371 119.734 -57.115  1.00 39.37      A16S
ATOM  15010  O2P C   A 719     183.866 118.704 -58.903  1.00 39.37      A16S
ATOM  15011  O5* C   A 719     184.977 120.878 -59.316  1.00 52.91      A16S
ATOM  15012  C5* C   A 719     186.116 121.746 -59.353  1.00 52.91      A16S
ATOM  15013  C4* C   A 719     186.097 122.578 -60.597  1.00 52.91      A16S
ATOM  15014  O4* C   A 719     186.172 121.710 -61.739  1.00 52.91      A16S
ATOM  15015  C1* C   A 719     185.644 122.393 -62.852  1.00 52.91      A16S
ATOM  15016  N1   C   A 719     184.886 121.466 -63.699  1.00 39.37      A16S
ATOM  15017  C6   C   A 719     184.453 120.260 -63.233  1.00 39.37      A16S
ATOM  15018  C2   C   A 719     184.601 121.859 -65.001  1.00 39.37      A16S
ATOM  15019  O2   C   A 719     185.051 122.942 -65.413  1.00 39.37      A16S
ATOM  15020  N3   C   A 719     183.856 121.057 -65.783  1.00 39.37      A16S
ATOM  15021  C4   C   A 719     183.420 119.893 -65.315  1.00 39.37      A16S
ATOM  15022  N4   C   A 719     182.676 119.139 -66.120  1.00 39.37      A16S
ATOM  15023  C5   C   A 719     183.724 119.450 -64.001  1.00 39.37      A16S
ATOM  15024  C2* C   A 719     184.827 123.585 -62.346  1.00 52.91      A16S
ATOM  15025  O2* C   A 719     185.465 124.778 -62.744  1.00 52.91      A16S
ATOM  15026  C3* C   A 719     184.820 123.361 -60.836  1.00 52.91      A16S
ATOM  15027  O3* C   A 719     184.847 124.593 -60.122  1.00 52.91      A16S
ATOM  15028  P    C   A 720     183.854 124.809 -58.881  1.00 45.39      A16S
ATOM  15029  O1P C   A 720     184.154 126.136 -58.291  1.00 34.14      A16S
ATOM  15030  O2P C   A 720     183.953 123.600 -58.026  1.00 34.14      A16S
ATOM  15031  O5* C   A 720     182.413 124.818 -59.566  1.00 45.39      A16S
ATOM  15032  C5* C   A 720     181.999 125.918 -60.395  1.00 45.39      A16S
ATOM  15033  C4* C   A 720     180.893 125.490 -61.335  1.00 45.39      A16S
ATOM  15034  O4* C   A 720     181.392 124.451 -62.212  1.00 45.39      A16S
ATOM  15035  C1* C   A 720     180.345 123.555 -62.527  1.00 45.39      A16S
ATOM  15036  N1   C   A 720     180.732 122.219 -62.059  1.00 34.14      A16S
ATOM  15037  C6   C   A 720     181.653 122.067 -61.058  1.00 34.14      A16S
ATOM  15038  C2   C   A 720     180.147 121.088 -62.663  1.00 34.14      A16S
ATOM  15039  O2   C   A 720     179.280 121.247 -63.528  1.00 34.14      A16S
ATOM  15040  N3   C   A 720     180.539 119.856 -62.277  1.00 34.14      A16S
ATOM  15041  C4   C   A 720     181.460 119.721 -61.320  1.00 34.14      A16S
ATOM  15042  N4   C   A 720     181.840 118.488 -60.996  1.00 34.14      A16S
ATOM  15043  C5   C   A 720     182.041 120.850 -60.659  1.00 34.14      A16S
ATOM  15044  C2* C   A 720     179.071 124.052 -61.842  1.00 45.39      A16S
ATOM  15045  O2* C   A 720     178.283 124.795 -62.752  1.00 45.39      A16S
ATOM  15046  C3* C   A 720     179.631 124.904 -60.709  1.00 45.39      A16S
ATOM  15047  O3* C   A 720     178.668 125.899 -60.383  1.00 45.39      A16S
ATOM  15048  P    G   A 721     178.460 126.369 -58.859  1.00 45.08      A16S
ATOM  15049  O1P G   A 721     176.995 126.430 -58.632  1.00 39.88      A16S
ATOM  15050  O2P G   A 721     179.303 127.575 -58.604  1.00 39.88      A16S
ATOM  15051  O5* G   A 721     179.003 125.206 -57.928  1.00 45.08      A16S
ATOM  15052  C5* G   A 721     178.875 125.344 -56.513  1.00 45.08      A16S
ATOM  15053  C4* G   A 721     179.302 124.086 -55.826  1.00 45.08      A16S
ATOM  15054  O4* G   A 721     178.558 122.984 -56.395  1.00 45.08      A16S
ATOM  15055  C1* G   A 721     179.445 122.021 -56.917  1.00 45.08      A16S
ATOM  15056  N9   G   A 721     178.876 121.555 -58.179  1.00 39.88      A16S
ATOM  15057  C4   G   A 721     178.858 120.266 -58.662  1.00 39.88      A16S
ATOM  15058  N3   G   A 721     179.372 119.180 -58.050  1.00 39.88      A16S
ATOM  15059  C2   G   A 721     179.203 118.085 -58.772  1.00 39.88      A16S
ATOM  15060  N2   G   A 721     179.658 116.920 -58.325  1.00 39.88      A16S
ATOM  15061  N1   G   A 721     178.577 118.050 -59.996  1.00 39.88      A16S
ATOM  15062  C6   G   A 721     178.040 119.157 -60.651  1.00 39.88      A16S
ATOM  15063  O6   G   A 721     177.504 119.026 -61.772  1.00 39.88      A16S
ATOM  15064  C5   G   A 721     178.212 120.343 -59.883  1.00 39.88      A16S
ATOM  15065  N7   G   A 721     177.827 121.648 -60.154  1.00 39.88      A16S
ATOM  15066  C8   G   A 721     178.241 122.330 -59.121  1.00 39.88      A16S
ATOM  15067  C2* G   A 721     180.805 122.708 -57.071  1.00 45.08      A16S
ATOM  15068  O2* G   A 721     181.871 121.797 -56.864  1.00 45.08      A16S
ATOM  15069  C3* G   A 721     180.773 123.744 -55.956  1.00 45.08      A16S
ATOM  15070  O3* G   A 721     181.210 123.155 -54.747  1.00 45.08      A16S
ATOM  15071  P    A   A 722     182.187 123.971 -53.776  1.00 72.75      A16S
ATOM  15072  O1P A   A 722     182.795 125.082 -54.535  1.00 40.42      A16S
ATOM  15073  O2P A   A 722     183.057 122.980 -53.086  1.00 40.42      A16S
ATOM  15074  O5* A   A 722     181.209 124.658 -52.727  1.00 72.75      A16S
ATOM  15075  C5* A   A 722     180.377 123.872 -51.862  1.00 72.75      A16S
ATOM  15076  C4* A   A 722     179.072 124.585 -51.619  1.00 72.75      A16S
ATOM  15077  O4* A   A 722     178.409 124.814 -52.877  1.00 72.75      A16S
ATOM  15078  C1* A   A 722     177.014 124.791 -52.682  1.00 72.75      A16S
ATOM  15079  N9   A   A 722     176.396 124.072 -53.796  1.00 40.42      A16S
ATOM  15080  C4   A   A 722     176.499 122.751 -54.160  1.00 40.42      A16S
ATOM  15081  N3   A   A 722     177.145 121.774 -53.514  1.00 40.42      A16S
ATOM  15082  C2   A   A 722     177.047 120.634 -54.192  1.00 40.42      A16S
ATOM  15083  N1   A   A 722     176.434 120.388 -55.358  1.00 40.42      A16S
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ATOM  15084  C6  A   A 722     175.811 121.401 -55.982  1.00 40.42      A16S
ATOM  15085  N6  A   A 722     175.233 121.177 -57.159  1.00 40.42      A16S
ATOM  15086  C5  A   A 722     175.820 122.638 -55.364  1.00 40.42      A16S
ATOM  15087  N7  A   A 722     175.260 123.846 -55.730  1.00 40.42      A16S
ATOM  15088  C8  A   A 722     175.616 124.659 -54.763  1.00 40.42      A16S
ATOM  15089  C2* A   A 722     176.720 124.392 -51.236  1.00 72.75      A16S
ATOM  15090  O2* A   A 722     176.358 125.581 -50.560  1.00 72.75      A16S
ATOM  15091  C3* A   A 722     178.068 123.831 -50.771  1.00 72.75      A16S
ATOM  15092  O3* A   A 722     178.335 124.175 -49.415  1.00 72.75      A16S
ATOM  15093  P   U   A 723     178.645 123.028 -48.338  1.00147.96      A16S
ATOM  15094  O1P U   A 723     179.922 123.400 -47.683  1.00201.30      A16S
ATOM  15095  O2P U   A 723     178.512 121.699 -48.990  1.00201.30      A16S
ATOM  15096  O5* U   A 723     177.472 123.195 -47.270  1.00147.96      A16S
ATOM  15097  C5* U   A 723     176.129 123.507 -47.700  1.00147.96      A16S
ATOM  15098  C4* U   A 723     175.436 124.398 -46.693  1.00147.96      A16S
ATOM  15099  O4* U   A 723     176.351 125.427 -46.245  1.00147.96      A16S
ATOM  15100  C1* U   A 723     175.649 126.642 -46.057  1.00147.96      A16S
ATOM  15101  N1  U   A 723     176.284 127.684 -46.883  1.00201.30      A16S
ATOM  15102  C6  U   A 723     176.705 127.424 -48.174  1.00201.30      A16S
ATOM  15103  C2  U   A 723     176.453 128.947 -46.322  1.00201.30      A16S
ATOM  15104  O2  U   A 723     176.101 129.228 -45.184  1.00201.30      A16S
ATOM  15105  N3  U   A 723     177.053 129.871 -47.145  1.00201.30      A16S
ATOM  15106  C4  U   A 723     177.494 129.674 -48.440  1.00201.30      A16S
ATOM  15107  O4  U   A 723     178.009 130.611 -49.052  1.00201.30      A16S
ATOM  15108  C5  U   A 723     177.287 128.349 -48.947  1.00201.30      A16S
ATOM  15109  C2* U   A 723     174.168 126.393 -46.367  1.00147.96      A16S
ATOM  15110  O2* U   A 723     173.458 126.181 -45.162  1.00147.96      A16S
ATOM  15111  C3* U   A 723     174.229 125.146 -47.246  1.00147.96      A16S
ATOM  15112  O3* U   A 723     173.031 124.388 -47.117  1.00147.96      A16S
ATOM  15113  P   G   A 724     172.697 123.221 -48.173  1.00 59.09      A16S
ATOM  15114  O1P G   A 724     171.237 122.955 -48.100  1.00 52.31      A16S
ATOM  15115  O2P G   A 724     173.657 122.098 -47.928  1.00 52.31      A16S
ATOM  15116  O5* G   A 724     172.962 123.869 -49.604  1.00 59.09      A16S
ATOM  15117  C5* G   A 724     172.134 124.929 -50.089  1.00 59.09      A16S
ATOM  15118  C4* G   A 724     171.666 124.642 -51.497  1.00 59.09      A16S
ATOM  15119  O4* G   A 724     172.824 124.323 -52.310  1.00 59.09      A16S
ATOM  15120  C1* G   A 724     172.459 123.401 -53.324  1.00 59.09      A16S
ATOM  15121  N9  G   A 724     173.150 122.136 -53.088  1.00 52.31      A16S
ATOM  15122  C4  G   A 724     173.101 121.021 -53.894  1.00 52.31      A16S
ATOM  15123  N3  G   A 724     172.428 120.910 -55.060  1.00 52.31      A16S
ATOM  15124  C2  G   A 724     172.562 119.709 -55.595  1.00 52.31      A16S
ATOM  15125  N2  G   A 724     171.961 119.425 -56.760  1.00 52.31      A16S
ATOM  15126  N1  G   A 724     173.296 118.699 -55.030  1.00 52.31      A16S
ATOM  15127  C6  G   A 724     173.993 118.797 -53.827  1.00 52.31      A16S
ATOM  15128  O6  G   A 724     174.624 117.830 -53.397  1.00 52.31      A16S
ATOM  15129  C5  G   A 724     173.859 120.073 -53.247  1.00 52.31      A16S
ATOM  15130  N7  G   A 724     174.384 120.578 -52.067  1.00 52.31      A16S
ATOM  15131  C8  G   A 724     173.944 121.804 -52.018  1.00 52.31      A16S
ATOM  15132  C2* G   A 724     170.956 123.181 -53.212  1.00 59.09      A16S
ATOM  15133  O2* G   A 724     170.313 124.082 -54.093  1.00 59.09      A16S
ATOM  15134  C3* G   A 724     170.720 123.469 -51.734  1.00 59.09      A16S
ATOM  15135  O3* G   A 724     169.341 123.747 -51.461  1.00 59.09      A16S
ATOM  15136  P   G   A 725     168.316 122.525 -51.177  1.00 50.72      A16S
ATOM  15137  O1P G   A 725     166.967 123.081 -50.889  1.00 32.69      A16S
ATOM  15138  O2P G   A 725     168.941 121.569 -50.209  1.00 32.69      A16S
ATOM  15139  O5* G   A 725     168.179 121.808 -52.586  1.00 50.72      A16S
ATOM  15140  C5* G   A 725     167.658 122.520 -53.702  1.00 50.72      A16S
ATOM  15141  C4* G   A 725     167.534 121.605 -54.883  1.00 50.72      A16S
ATOM  15142  O4* G   A 725     168.840 121.081 -55.228  1.00 50.72      A16S
ATOM  15143  C1* G   A 725     168.718 119.745 -55.679  1.00 50.72      A16S
ATOM  15144  N9  G   A 725     169.433 118.880 -54.744  1.00 32.69      A16S
ATOM  15145  C4  G   A 725     169.677 117.526 -54.883  1.00 32.69      A16S
ATOM  15146  N3  G   A 725     169.317 116.748 -55.931  1.00 32.69      A16S
ATOM  15147  C2  G   A 725     169.659 115.478 -55.745  1.00 32.69      A16S
ATOM  15148  N2  G   A 725     169.372 114.559 -56.669  1.00 32.69      A16S
ATOM  15149  N1  G   A 725     170.305 115.017 -54.635  1.00 32.69      A16S
ATOM  15150  C6  G   A 725     170.698 115.802 -53.560  1.00 32.69      A16S
ATOM  15151  O6  G   A 725     171.289 115.285 -52.612  1.00 32.69      A16S
ATOM  15152  C5  G   A 725     170.333 117.157 -53.735  1.00 32.69      A16S
ATOM  15153  N7  G   A 725     170.523 118.247 -52.904  1.00 32.69      A16S
ATOM  15154  C8  G   A 725     169.979 119.244 -53.543  1.00 32.69      A16S
ATOM  15155  C2* G   A 725     167.228 119.423 -55.717  1.00 50.72      A16S
ATOM  15156  O2* G   A 725     166.718 119.749 -56.994  1.00 50.72      A16S
ATOM  15157  C3* G   A 725     166.695 120.367 -54.655  1.00 50.72      A16S
ATOM  15158  O3* G   A 725     165.305 120.607 -54.789  1.00 50.72      A16S
ATOM  15159  P   C   A 726     164.271 119.618 -54.055  1.00 29.89      A16S
ATOM  15160  O1P C   A 726     162.886 120.073 -54.364  1.00 50.44      A16S
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ATOM  15161  O2P C   A 726     164.708 119.462 -52.629  1.00 50.44      A16S
ATOM  15162  O5* C   A 726     164.493 118.234 -54.801  1.00 29.89      A16S
ATOM  15163  C5* C   A 726     164.110 118.077 -56.157  1.00 29.89      A16S
ATOM  15164  C4* C   A 726     164.247 116.645 -56.544  1.00 29.89      A16S
ATOM  15165  O4* C   A 726     165.645 116.285 -56.519  1.00 29.89      A16S
ATOM  15166  C1* C   A 726     165.783 114.935 -56.102  1.00 29.89      A16S
ATOM  15167  N1  C   A 726     166.581 114.879 -54.874  1.00 50.44      A16S
ATOM  15168  C6  C   A 726     166.852 116.000 -54.150  1.00 50.44      A16S
ATOM  15169  C2  C   A 726     167.034 113.640 -54.442  1.00 50.44      A16S
ATOM  15170  O2  C   A 726     166.785 112.640 -55.129  1.00 50.44      A16S
ATOM  15171  N3  C   A 726     167.723 113.554 -53.288  1.00 50.44      A16S
ATOM  15172  C4  C   A 726     167.956 114.649 -52.573  1.00 50.44      A16S
ATOM  15173  N4  C   A 726     168.610 114.515 -51.421  1.00 50.44      A16S
ATOM  15174  C5  C   A 726     167.526 115.929 -53.000  1.00 50.44      A16S
ATOM  15175  C2* C   A 726     164.390 114.395 -55.808  1.00 29.89      A16S
ATOM  15176  O2* C   A 726     163.920 113.638 -56.897  1.00 29.89      A16S
ATOM  15177  C3* C   A 726     163.623 115.681 -55.559  1.00 29.89      A16S
ATOM  15178  O3* C   A 726     162.230 115.528 -55.684  1.00 29.89      A16S
ATOM  15179  P   G   A 727     161.403 115.017 -54.419  1.00 35.90      A16S
ATOM  15180  O1P G   A 727     159.970 114.989 -54.805  1.00 39.41      A16S
ATOM  15181  O2P G   A 727     161.842 115.813 -53.237  1.00 39.41      A16S
ATOM  15182  O5* G   A 727     161.902 113.521 -54.224  1.00 35.90      A16S
ATOM  15183  C5* G   A 727     161.541 112.530 -55.177  1.00 35.90      A16S
ATOM  15184  C4* G   A 727     162.008 111.173 -54.735  1.00 35.90      A16S
ATOM  15185  O4* G   A 727     163.448 111.199 -54.595  1.00 35.90      A16S
ATOM  15186  C1* G   A 727     163.839 110.264 -53.604  1.00 35.90      A16S
ATOM  15187  N9  G   A 727     164.560 110.971 -52.553  1.00 39.41      A16S
ATOM  15188  C4  G   A 727     165.393 110.407 -51.630  1.00 39.41      A16S
ATOM  15189  N3  G   A 727     165.751 109.114 -51.583  1.00 39.41      A16S
ATOM  15190  C2  G   A 727     166.529 108.866 -50.550  1.00 39.41      A16S
ATOM  15191  N2  G   A 727     167.004 107.635 -50.351  1.00 39.41      A16S
ATOM  15192  N1  G   A 727     166.908 109.810 -49.630  1.00 39.41      A16S
ATOM  15193  C6  G   A 727     166.541 111.145 -49.662  1.00 39.41      A16S
ATOM  15194  O6  G   A 727     166.912 111.908 -48.767  1.00 39.41      A16S
ATOM  15195  C5  G   A 727     165.736 111.428 -50.775  1.00 39.41      A16S
ATOM  15196  N7  G   A 727     165.179 112.622 -51.189  1.00 39.41      A16S
ATOM  15197  C8  G   A 727     164.498 112.305 -52.254  1.00 39.41      A16S
ATOM  15198  C2* G   A 727     162.568 109.615 -53.049  1.00 35.90      A16S
ATOM  15199  O2* G   A 727     162.334 108.377 -53.690  1.00 35.90      A16S
ATOM  15200  C3* G   A 727     161.516 110.658 -53.393  1.00 35.90      A16S
ATOM  15201  O3* G   A 727     160.212 110.097 -53.442  1.00 35.90      A16S
ATOM  15202  P   A   A 728     159.146 110.471 -52.285  1.00 38.48      A16S
ATOM  15203  O1P A   A 728     157.953 109.592 -52.438  1.00 36.61      A16S
ATOM  15204  O2P A   A 728     158.977 111.961 -52.238  1.00 36.61      A16S
ATOM  15205  O5* A   A 728     159.824 110.018 -50.922  1.00 38.48      A16S
ATOM  15206  C5* A   A 728     159.124 110.170 -49.689  1.00 38.48      A16S
ATOM  15207  C4* A   A 728     159.458 109.036 -48.759  1.00 38.48      A16S
ATOM  15208  O4* A   A 728     158.861 107.817 -49.240  1.00 38.48      A16S
ATOM  15209  C1* A   A 728     159.718 106.724 -48.968  1.00 38.48      A16S
ATOM  15210  N9  A   A 728     160.065 106.122 -50.247  1.00 36.61      A16S
ATOM  15211  C4  A   A 728     160.402 104.816 -50.474  1.00 36.61      A16S
ATOM  15212  N3  A   A 728     160.507 103.833 -49.569  1.00 36.61      A16S
ATOM  15213  C2  A   A 728     160.800 102.685 -50.158  1.00 36.61      A16S
ATOM  15214  N1  A   A 728     160.987 102.430 -51.452  1.00 36.61      A16S
ATOM  15215  C6  A   A 728     160.885 103.452 -52.332  1.00 36.61      A16S
ATOM  15216  N6  A   A 728     161.074 103.213 -53.628  1.00 36.61      A16S
ATOM  15217  C5  A   A 728     160.581 104.709 -51.833  1.00 36.61      A16S
ATOM  15218  N7  A   A 728     160.396 105.931 -52.454  1.00 36.61      A16S
ATOM  15219  C8  A   A 728     160.096 106.735 -51.471  1.00 36.61      A16S
ATOM  15220  C2* A   A 728     160.930 107.255 -48.214  1.00 38.48      A16S
ATOM  15221  O2* A   A 728     160.709 107.096 -46.835  1.00 38.48      A16S
ATOM  15222  C3* A   A 728     160.929 108.710 -48.646  1.00 38.48      A16S
ATOM  15223  O3* A   A 728     161.571 109.565 -47.743  1.00 38.48      A16S
ATOM  15224  P   A   A 729     163.083 109.992 -48.030  1.00 33.91      A16S
ATOM  15225  O1P A   A 729     163.426 111.115 -47.118  1.00 26.66      A16S
ATOM  15226  O2P A   A 729     163.243 110.179 -49.490  1.00 26.66      A16S
ATOM  15227  O5* A   A 729     163.885 108.687 -47.590  1.00 33.91      A16S
ATOM  15228  C5* A   A 729     163.872 108.271 -46.214  1.00 33.91      A16S
ATOM  15229  C4* A   A 729     164.351 106.847 -46.064  1.00 33.91      A16S
ATOM  15230  O4* A   A 729     163.454 105.931 -46.744  1.00 33.91      A16S
ATOM  15231  C1* A   A 729     164.174 104.785 -47.152  1.00 33.91      A16S
ATOM  15232  N9  A   A 729     164.096 104.671 -48.605  1.00 26.66      A16S
ATOM  15233  C4  A   A 729     164.177 103.501 -49.315  1.00 26.66      A16S
ATOM  15234  N3  A   A 729     164.291 102.257 -48.821  1.00 26.66      A16S
ATOM  15235  C2  A   A 729     164.384 101.381 -49.800  1.00 26.66      A16S
ATOM  15236  N1  A   A 729     164.382 101.587 -51.117  1.00 26.66      A16S
ATOM  15237  C6  A   A 729     164.268 102.850 -51.578  1.00 26.66      A16S
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ATOM  15238  N6  A   A 729     164.287 103.063 -52.897  1.00 26.66      A16S
ATOM  15239  C5  A   A 729     164.147 103.867 -50.643  1.00 26.66      A16S
ATOM  15240  N7  A   A 729     164.009 105.237 -50.775  1.00 26.66      A16S
ATOM  15241  C8  A   A 729     163.976 105.667 -49.539  1.00 26.66      A16S
ATOM  15242  C2* A   A 729     165.623 104.978 -46.718  1.00 33.91      A16S
ATOM  15243  O2* A   A 729     165.800 104.358 -45.465  1.00 33.91      A16S
ATOM  15244  C3* A   A 729     165.714 106.491 -46.614  1.00 33.91      A16S
ATOM  15245  O3* A   A 729     166.770 106.893 -45.768  1.00 33.91      A16S
ATOM  15246  P   G   A 730     168.187 107.268 -46.423  1.00 31.96      A16S
ATOM  15247  O1P G   A 730     169.109 107.711 -45.339  1.00 29.95      A16S
ATOM  15248  O2P G   A 730     167.929 108.172 -47.578  1.00 29.95      A16S
ATOM  15249  O5* G   A 730     168.729 105.866 -46.959  1.00 31.96      A16S
ATOM  15250  C5* G   A 730     169.208 104.878 -46.026  1.00 31.96      A16S
ATOM  15251  C4* G   A 730     169.534 103.583 -46.724  1.00 31.96      A16S
ATOM  15252  O4* G   A 730     168.364 103.109 -47.437  1.00 31.96      A16S
ATOM  15253  C1* G   A 730     168.755 102.486 -48.646  1.00 31.96      A16S
ATOM  15254  N9  G   A 730     168.281 103.306 -49.758  1.00 29.95      A16S
ATOM  15255  C4  G   A 730     168.371 102.999 -51.095  1.00 29.95      A16S
ATOM  15256  N3  G   A 730     168.876 101.869 -51.610  1.00 29.95      A16S
ATOM  15257  C2  G   A 730     168.861 101.877 -52.927  1.00 29.95      A16S
ATOM  15258  N2  G   A 730     169.335 100.816 -53.599  1.00 29.95      A16S
ATOM  15259  N1  G   A 730     168.383 102.915 -53.679  1.00 29.95      A16S
ATOM  15260  C6  G   A 730     167.849 104.081 -53.167  1.00 29.95      A16S
ATOM  15261  O6  G   A 730     167.434 104.947 -53.932  1.00 29.95      A16S
ATOM  15262  C5  G   A 730     167.866 104.086 -51.754  1.00 29.95      A16S
ATOM  15263  N7  G   A 730     167.443 105.050 -50.855  1.00 29.95      A16S
ATOM  15264  C8  G   A 730     167.700 104.542 -49.685  1.00 29.95      A16S
ATOM  15265  C2* G   A 730     170.279 102.439 -48.647  1.00 31.96      A16S
ATOM  15266  O2* G   A 730     170.668 101.200 -48.093  1.00 31.96      A16S
ATOM  15267  C3* G   A 730     170.616 103.645 -47.779  1.00 31.96      A16S
ATOM  15268  O3* G   A 730     171.908 103.577 -47.212  1.00 31.96      A16S
ATOM  15269  P   G   A 731     173.028 104.639 -47.659  1.00 32.33      A16S
ATOM  15270  O1P G   A 731     174.286 103.861 -47.719  1.00 40.21      A16S
ATOM  15271  O2P G   A 731     172.964 105.851 -46.805  1.00 40.21      A16S
ATOM  15272  O5* G   A 731     172.642 105.084 -49.141  1.00 32.33      A16S
ATOM  15273  C5* G   A 731     172.826 104.190 -50.240  1.00 32.33      A16S
ATOM  15274  C4* G   A 731     172.076 104.680 -51.455  1.00 32.33      A16S
ATOM  15275  O4* G   A 731     170.839 105.304 -51.020  1.00 32.33      A16S
ATOM  15276  C1* G   A 731     170.489 106.351 -51.906  1.00 32.33      A16S
ATOM  15277  N9  G   A 731     170.496 107.604 -51.160  1.00 40.21      A16S
ATOM  15278  C4  G   A 731     169.975 108.802 -51.571  1.00 40.21      A16S
ATOM  15279  N3  G   A 731     169.344 109.029 -52.733  1.00 40.21      A16S
ATOM  15280  C2  G   A 731     168.972 110.285 -52.851  1.00 40.21      A16S
ATOM  15281  N2  G   A 731     168.324 110.685 -53.935  1.00 40.21      A16S
ATOM  15282  N1  G   A 731     169.205 111.244 -51.913  1.00 40.21      A16S
ATOM  15283  C6  G   A 731     169.855 111.037 -50.704  1.00 40.21      A16S
ATOM  15284  O6  G   A 731     170.021 111.986 -49.913  1.00 40.21      A16S
ATOM  15285  C5  G   A 731     170.254 109.689 -50.559  1.00 40.21      A16S
ATOM  15286  N7  G   A 731     170.922 109.059 -49.522  1.00 40.21      A16S
ATOM  15287  C8  G   A 731     171.042 107.825 -49.921  1.00 40.21      A16S
ATOM  15288  C2* G   A 731     171.526 106.357 -53.025  1.00 32.33      A16S
ATOM  15289  O2* G   A 731     171.038 105.561 -54.085  1.00 32.33      A16S
ATOM  15290  C3* G   A 731     172.733 105.732 -52.334  1.00 32.33      A16S
ATOM  15291  O3* G   A 731     173.636 105.160 -53.279  1.00 32.33      A16S
ATOM  15292  P   C   A 732     174.642 106.111 -54.109  1.00 36.38      A16S
ATOM  15293  O1P C   A 732     175.470 105.231 -54.958  1.00 32.35      A16S
ATOM  15294  O2P C   A 732     175.303 107.080 -53.219  1.00 32.35      A16S
ATOM  15295  O5* C   A 732     173.682 106.944 -55.052  1.00 36.38      A16S
ATOM  15296  C5* C   A 732     172.854 106.284 -56.003  1.00 36.38      A16S
ATOM  15297  C4* C   A 732     172.225 107.297 -56.907  1.00 36.38      A16S
ATOM  15298  O4* C   A 732     171.223 108.052 -56.183  1.00 36.38      A16S
ATOM  15299  C1* C   A 732     171.248 109.405 -56.611  1.00 36.38      A16S
ATOM  15300  N1  C   A 732     171.537 110.263 -55.449  1.00 32.35      A16S
ATOM  15301  C6  C   A 732     172.029 109.735 -54.295  1.00 32.35      A16S
ATOM  15302  C2  C   A 732     171.304 111.633 -55.548  1.00 32.35      A16S
ATOM  15303  O2  C   A 732     170.846 112.090 -56.592  1.00 32.35      A16S
ATOM  15304  N3  C   A 732     171.587 112.429 -54.506  1.00 32.35      A16S
ATOM  15305  C4  C   A 732     172.088 111.907 -53.397  1.00 32.35      A16S
ATOM  15306  N4  C   A 732     172.390 112.737 -52.408  1.00 32.35      A16S
ATOM  15307  C5  C   A 732     172.313 110.514 -53.255  1.00 32.35      A16S
ATOM  15308  C2* C   A 732     172.294 109.525 -57.720  1.00 36.38      A16S
ATOM  15309  O2* C   A 732     171.657 109.399 -58.977  1.00 36.38      A16S
ATOM  15310  C3* C   A 732     173.203 108.343 -57.406  1.00 36.38      A16S
ATOM  15311  O3* C   A 732     173.963 107.856 -58.507  1.00 36.38      A16S
ATOM  15312  P   A   A 733     175.457 108.393 -58.744  1.00 69.79      A16S
ATOM  15313  O1P A   A 733     176.219 107.261 -59.327  1.00 49.93      A16S
ATOM  15314  O2P A   A 733     175.985 109.071 -57.542  1.00 49.93      A16S
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ATOM  15315  O5*  A   A 733     175.225 109.507 -59.845  1.00 69.79      A16S
ATOM  15316  C5*  A   A 733     176.307 110.230 -60.397  1.00 69.79      A16S
ATOM  15317  C4*  A   A 733     175.846 111.606 -60.726  1.00 69.79      A16S
ATOM  15318  O4*  A   A 733     175.567 112.302 -59.503  1.00 69.79      A16S
ATOM  15319  C1*  A   A 733     175.697 113.684 -59.732  1.00 69.79      A16S
ATOM  15320  N9   A   A 733     176.302 114.323 -58.574  1.00 49.93      A16S
ATOM  15321  C4   A   A 733     176.190 115.653 -58.293  1.00 49.93      A16S
ATOM  15322  N3   A   A 733     175.605 116.588 -59.054  1.00 49.93      A16S
ATOM  15323  C2   A   A 733     175.628 117.764 -58.439  1.00 49.93      A16S
ATOM  15324  N1   A   A 733     176.132 118.084 -57.233  1.00 49.93      A16S
ATOM  15325  C6   A   A 733     176.720 117.113 -56.498  1.00 49.93      A16S
ATOM  15326  N6   A   A 733     177.220 117.428 -55.294  1.00 49.93      A16S
ATOM  15327  C5   A   A 733     176.764 115.823 -57.049  1.00 49.93      A16S
ATOM  15328  N7   A   A 733     177.285 114.627 -56.584  1.00 49.93      A16S
ATOM  15329  C8   A   A 733     177.002 113.775 -57.533  1.00 49.93      A16S
ATOM  15330  C2*  A   A 733     176.374 113.901 -61.080  1.00 69.79      A16S
ATOM  15331  O2*  A   A 733     175.363 114.424 -61.928  1.00 69.79      A16S
ATOM  15332  C3*  A   A 733     176.843 112.486 -61.442  1.00 69.79      A16S
ATOM  15333  O3*  A   A 733     176.671 112.242 -62.832  1.00 69.79      A16S
ATOM  15334  P    G   A 734     177.805 111.485 -63.661  1.00 42.61      A16S
ATOM  15335  O1P  G   A 734     177.160 110.316 -64.319  1.00 40.46      A16S
ATOM  15336  O2P  G   A 734     178.968 111.278 -62.775  1.00 40.46      A16S
ATOM  15337  O5*  G   A 734     178.197 112.547 -64.773  1.00 42.61      A16S
ATOM  15338  C5*  G   A 734     178.834 113.780 -64.412  1.00 42.61      A16S
ATOM  15339  C4*  G   A 734     179.438 114.410 -65.632  1.00 42.61      A16S
ATOM  15340  O4*  G   A 734     180.458 113.523 -66.143  1.00 42.61      A16S
ATOM  15341  C1*  G   A 734     180.403 113.487 -67.553  1.00 42.61      A16S
ATOM  15342  N9   G   A 734     180.133 112.110 -67.951  1.00 40.46      A16S
ATOM  15343  C4   G   A 734     179.991 111.625 -69.232  1.00 40.46      A16S
ATOM  15344  N3   G   A 734     180.065 112.345 -70.375  1.00 40.46      A16S
ATOM  15345  C2   G   A 734     179.905 111.586 -71.448  1.00 40.46      A16S
ATOM  15346  N2   G   A 734     179.963 112.125 -72.673  1.00 40.46      A16S
ATOM  15347  N1   G   A 734     179.675 110.236 -71.406  1.00 40.46      A16S
ATOM  15348  C6   G   A 734     179.580 109.476 -70.248  1.00 40.46      A16S
ATOM  15349  O6   G   A 734     179.345 108.257 -70.325  1.00 40.46      A16S
ATOM  15350  C5   G   A 734     179.770 110.275 -69.084  1.00 40.46      A16S
ATOM  15351  N7   G   A 734     179.769 109.921 -67.744  1.00 40.46      A16S
ATOM  15352  C8   G   A 734     179.985 111.039 -67.114  1.00 40.46      A16S
ATOM  15353  C2*  G   A 734     179.348 114.496 -68.001  1.00 42.61      A16S
ATOM  15354  O2*  G   A 734     179.963 115.746 -68.252  1.00 42.61      A16S
ATOM  15355  C3*  G   A 734     178.457 114.567 -66.777  1.00 42.61      A16S
ATOM  15356  O3*  G   A 734     177.774 115.803 -66.697  1.00 42.61      A16S
ATOM  15357  P    C   A 735     176.211 115.864 -67.058  1.00 42.90      A16S
ATOM  15358  O1P  C   A 735     175.748 117.251 -66.707  1.00 44.97      A16S
ATOM  15359  O2P  C   A 735     175.558 114.667 -66.432  1.00 44.97      A16S
ATOM  15360  O5*  C   A 735     176.161 115.680 -68.642  1.00 42.90      A16S
ATOM  15361  C5*  C   A 735     176.675 116.697 -69.523  1.00 42.90      A16S
ATOM  15362  C4*  C   A 735     176.705 116.187 -70.939  1.00 42.90      A16S
ATOM  15363  O4*  C   A 735     177.596 115.047 -71.011  1.00 42.90      A16S
ATOM  15364  C1*  C   A 735     177.083 114.098 -71.922  1.00 42.90      A16S
ATOM  15365  N1   C   A 735     176.837 112.848 -71.193  1.00 44.97      A16S
ATOM  15366  C6   C   A 735     176.816 112.830 -69.830  1.00 44.97      A16S
ATOM  15367  C2   C   A 735     176.614 111.663 -71.919  1.00 44.97      A16S
ATOM  15368  O2   C   A 735     176.648 111.693 -73.159  1.00 44.97      A16S
ATOM  15369  N3   C   A 735     176.372 110.521 -71.253  1.00 44.97      A16S
ATOM  15370  C4   C   A 735     176.355 110.519 -69.925  1.00 44.97      A16S
ATOM  15371  N4   C   A 735     176.122 109.364 -69.311  1.00 44.97      A16S
ATOM  15372  C5   C   A 735     176.582 111.700 -69.164  1.00 44.97      A16S
ATOM  15373  C2*  C   A 735     175.805 114.671 -72.530  1.00 42.90      A16S
ATOM  15374  O2*  C   A 735     176.090 115.268 -73.776  1.00 42.90      A16S
ATOM  15375  C3*  C   A 735     175.379 115.666 -71.460  1.00 42.90      A16S
ATOM  15376  O3*  C   A 735     174.542 116.705 -71.962  1.00 42.90      A16S
ATOM  15377  P    C   A 736     172.973 116.418 -72.182  1.00 56.25      A16S
ATOM  15378  O1P  C   A 736     172.378 117.629 -72.816  1.00 42.35      A16S
ATOM  15379  O2P  C   A 736     172.387 115.886 -70.924  1.00 42.35      A16S
ATOM  15380  O5*  C   A 736     172.961 115.220 -73.231  1.00 56.25      A16S
ATOM  15381  C5*  C   A 736     173.316 115.453 -74.598  1.00 56.25      A16S
ATOM  15382  C4*  C   A 736     172.801 114.341 -75.464  1.00 56.25      A16S
ATOM  15383  O4*  C   A 736     173.594 113.150 -75.256  1.00 56.25      A16S
ATOM  15384  C1*  C   A 736     172.769 112.010 -75.357  1.00 56.25      A16S
ATOM  15385  N1   C   A 736     172.797 111.314 -74.068  1.00 42.35      A16S
ATOM  15386  C6   C   A 736     173.169 111.972 -72.929  1.00 42.35      A16S
ATOM  15387  C2   C   A 736     172.414 109.962 -74.012  1.00 42.35      A16S
ATOM  15388  O2   C   A 736     172.093 109.383 -75.058  1.00 42.35      A16S
ATOM  15389  N3   C   A 736     172.398 109.328 -72.817  1.00 42.35      A16S
ATOM  15390  C4   C   A 736     172.739 109.988 -71.708  1.00 42.35      A16S
ATOM  15391  N4   C   A 736     172.675 109.335 -70.543  1.00 42.35      A16S
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ATOM  15392  C5  C   A 736     173.154 111.356 -71.740  1.00 42.35      A16S
ATOM  15393  C2* C   A 736     171.358 112.486 -75.700  1.00 56.25      A16S
ATOM  15394  O2* C   A 736     171.170 112.434 -77.094  1.00 56.25      A16S
ATOM  15395  C3* C   A 736     171.380 113.911 -75.175  1.00 56.25      A16S
ATOM  15396  O3* C   A 736     170.427 114.751 -75.805  1.00 56.25      A16S
ATOM  15397  P   A   A 737     168.948 114.874 -75.183  1.00 37.15      A16S
ATOM  15398  O1P A   A 737     168.307 116.064 -75.809  1.00 44.24      A16S
ATOM  15399  O2P A   A 737     169.019 114.779 -73.690  1.00 44.24      A16S
ATOM  15400  O5* A   A 737     168.218 113.565 -75.707  1.00 37.15      A16S
ATOM  15401  C5* A   A 737     168.083 113.342 -77.097  1.00 37.15      A16S
ATOM  15402  C4* A   A 737     167.717 111.914 -77.359  1.00 37.15      A16S
ATOM  15403  O4* A   A 737     168.790 111.036 -76.948  1.00 37.15      A16S
ATOM  15404  C1* A   A 737     168.251 109.786 -76.559  1.00 37.15      A16S
ATOM  15405  N9  A   A 737     168.652 109.508 -75.183  1.00 44.24      A16S
ATOM  15406  C4  A   A 737     168.596 108.288 -74.554  1.00 44.24      A16S
ATOM  15407  N3  A   A 737     168.178 107.122 -75.066  1.00 44.24      A16S
ATOM  15408  C2  A   A 737     168.257 106.158 -74.160  1.00 44.24      A16S
ATOM  15409  N1  A   A 737     168.667 106.220 -72.901  1.00 44.24      A16S
ATOM  15410  C6  A   A 737     169.073 107.408 -72.419  1.00 44.24      A16S
ATOM  15411  N6  A   A 737     169.468 107.485 -71.154  1.00 44.24      A16S
ATOM  15412  C5  A   A 737     169.050 108.504 -73.276  1.00 44.24      A16S
ATOM  15413  N7  A   A 737     169.398 109.833 -73.096  1.00 44.24      A16S
ATOM  15414  C8  A   A 737     169.143 110.385 -74.255  1.00 44.24      A16S
ATOM  15415  C2* A   A 737     166.732 109.881 -76.684  1.00 37.15      A16S
ATOM  15416  O2* A   A 737     166.333 109.360 -77.936  1.00 37.15      A16S
ATOM  15417  C3* A   A 737     166.512 111.381 -76.616  1.00 37.15      A16S
ATOM  15418  O3* A   A 737     165.304 111.739 -77.239  1.00 37.15      A16S
ATOM  15419  P   C   A 738     163.956 111.730 -76.380  1.00 46.24      A16S
ATOM  15420  O1P C   A 738     162.894 112.258 -77.276  1.00 44.34      A16S
ATOM  15421  O2P C   A 738     164.212 112.401 -75.071  1.00 44.34      A16S
ATOM  15422  O5* C   A 738     163.691 110.181 -76.122  1.00 46.24      A16S
ATOM  15423  C5* C   A 738     163.417 109.308 -77.222  1.00 46.24      A16S
ATOM  15424  C4* C   A 738     163.346 107.879 -76.756  1.00 46.24      A16S
ATOM  15425  O4* C   A 738     164.632 107.470 -76.226  1.00 46.24      A16S
ATOM  15426  C1* C   A 738     164.442 106.612 -75.110  1.00 46.24      A16S
ATOM  15427  N1  C   A 738     164.974 107.288 -73.904  1.00 44.34      A16S
ATOM  15428  C6  C   A 738     165.263 108.625 -73.914  1.00 44.34      A16S
ATOM  15429  C2  C   A 738     165.174 106.534 -72.737  1.00 44.34      A16S
ATOM  15430  O2  C   A 738     164.894 105.329 -72.747  1.00 44.34      A16S
ATOM  15431  N3  C   A 738     165.660 107.140 -71.632  1.00 44.34      A16S
ATOM  15432  C4  C   A 738     165.937 108.442 -71.659  1.00 44.34      A16S
ATOM  15433  N4  C   A 738     166.412 108.998 -70.553  1.00 44.34      A16S
ATOM  15434  C5  C   A 738     165.739 109.234 -72.826  1.00 44.34      A16S
ATOM  15435  C2* C   A 738     162.944 106.354 -74.991  1.00 46.24      A16S
ATOM  15436  O2* C   A 738     162.603 105.186 -75.709  1.00 46.24      A16S
ATOM  15437  C3* C   A 738     162.379 107.616 -75.623  1.00 46.24      A16S
ATOM  15438  O3* C   A 738     161.049 107.466 -76.061  1.00 46.24      A16S
ATOM  15439  P   C   A 739     159.864 107.994 -75.121  1.00 57.88      A16S
ATOM  15440  O1P C   A 739     158.576 107.901 -75.869  1.00 35.41      A16S
ATOM  15441  O2P C   A 739     160.304 109.309 -74.568  1.00 35.41      A16S
ATOM  15442  O5* C   A 739     159.807 106.893 -73.972  1.00 57.88      A16S
ATOM  15443  C5* C   A 739     159.523 105.533 -74.313  1.00 57.88      A16S
ATOM  15444  C4* C   A 739     159.788 104.630 -73.147  1.00 57.88      A16S
ATOM  15445  O4* C   A 739     161.192 104.668 -72.804  1.00 57.88      A16S
ATOM  15446  C1* C   A 739     161.344 104.552 -71.399  1.00 57.88      A16S
ATOM  15447  N1  C   A 739     161.916 105.815 -70.886  1.00 35.41      A16S
ATOM  15448  C6  C   A 739     161.978 106.924 -71.683  1.00 35.41      A16S
ATOM  15449  C2  C   A 739     162.401 105.870 -69.560  1.00 35.41      A16S
ATOM  15450  O2  C   A 739     162.316 104.862 -68.836  1.00 35.41      A16S
ATOM  15451  N3  C   A 739     162.940 107.026 -69.109  1.00 35.41      A16S
ATOM  15452  C4  C   A 739     162.992 108.096 -69.905  1.00 35.41      A16S
ATOM  15453  N4  C   A 739     163.515 109.212 -69.416  1.00 35.41      A16S
ATOM  15454  C5  C   A 739     162.503 108.071 -71.236  1.00 35.41      A16S
ATOM  15455  C2* C   A 739     159.956 104.302 -70.822  1.00 57.88      A16S
ATOM  15456  O2* C   A 739     159.732 102.904 -70.774  1.00 57.88      A16S
ATOM  15457  C3* C   A 739     159.084 104.992 -71.858  1.00 57.88      A16S
ATOM  15458  O3* C   A 739     157.745 104.546 -71.832  1.00 57.88      A16S
ATOM  15459  P   U   A 740     156.614 105.502 -71.208  1.00 51.04      A16S
ATOM  15460  O1P U   A 740     155.354 104.722 -71.358  1.00 27.55      A16S
ATOM  15461  O2P U   A 740     156.712 106.877 -71.782  1.00 27.55      A16S
ATOM  15462  O5* U   A 740     157.017 105.630 -69.670  1.00 51.04      A16S
ATOM  15463  C5* U   A 740     156.792 104.538 -68.773  1.00 51.04      A16S
ATOM  15464  C4* U   A 740     157.379 104.817 -67.409  1.00 51.04      A16S
ATOM  15465  O4* U   A 740     158.813 105.033 -67.514  1.00 51.04      A16S
ATOM  15466  C1* U   A 740     159.247 105.808 -66.407  1.00 51.04      A16S
ATOM  15467  N1  U   A 740     159.897 107.039 -66.878  1.00 27.55      A16S
ATOM  15468  C6  U   A 740     159.699 107.535 -68.146  1.00 27.55      A16S
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ATOM  15469  C2  U   A 740     160.705 107.722 -65.959  1.00 27.55      A16S
ATOM  15470  O2  U   A 740     160.960 107.296 -64.834  1.00 27.55      A16S
ATOM  15471  N3  U   A 740     161.205 108.915 -66.405  1.00 27.55      A16S
ATOM  15472  C4  U   A 740     161.008 109.488 -67.631  1.00 27.55      A16S
ATOM  15473  O4  U   A 740     161.384 110.644 -67.808  1.00 27.55      A16S
ATOM  15474  C5  U   A 740     160.214 108.704 -68.543  1.00 27.55      A16S
ATOM  15475  C2* U   A 740     158.010 106.193 -65.602  1.00 51.04      A16S
ATOM  15476  O2* U   A 740     157.851 105.329 -64.497  1.00 51.04      A16S
ATOM  15477  C3* U   A 740     156.911 106.037 -66.638  1.00 51.04      A16S
ATOM  15478  O3* U   A 740     155.664 105.921 -65.989  1.00 51.04      A16S
ATOM  15479  P   G   A 741     154.984 107.246 -65.383  1.00 41.15      A16S
ATOM  15480  O1P G   A 741     153.514 107.076 -65.449  1.00 47.16      A16S
ATOM  15481  O2P G   A 741     155.613 108.435 -66.026  1.00 47.16      A16S
ATOM  15482  O5* G   A 741     155.443 107.265 -63.856  1.00 41.15      A16S
ATOM  15483  C5* G   A 741     155.396 106.081 -63.044  1.00 41.15      A16S
ATOM  15484  C4* G   A 741     156.060 106.326 -61.703  1.00 41.15      A16S
ATOM  15485  O4* G   A 741     157.499 106.473 -61.857  1.00 41.15      A16S
ATOM  15486  C1* G   A 741     158.010 107.341 -60.847  1.00 41.15      A16S
ATOM  15487  N9  G   A 741     158.565 108.540 -61.482  1.00 47.16      A16S
ATOM  15488  C4  G   A 741     159.247 109.572 -60.868  1.00 47.16      A16S
ATOM  15489  N3  G   A 741     159.585 109.645 -59.565  1.00 47.16      A16S
ATOM  15490  C2  G   A 741     160.194 110.790 -59.278  1.00 47.16      A16S
ATOM  15491  N2  G   A 741     160.601 111.042 -58.029  1.00 47.16      A16S
ATOM  15492  N1  G   A 741     160.445 111.774 -60.193  1.00 47.16      A16S
ATOM  15493  C6  G   A 741     160.103 111.714 -61.536  1.00 47.16      A16S
ATOM  15494  O6  G   A 741     160.353 112.663 -62.277  1.00 47.16      A16S
ATOM  15495  C5  G   A 741     159.467 110.501 -61.859  1.00 47.16      A16S
ATOM  15496  N7  G   A 741     158.983 110.052 -63.073  1.00 47.16      A16S
ATOM  15497  C8  G   A 741     158.467 108.885 -62.803  1.00 47.16      A16S
ATOM  15498  C2* G   A 741     156.828 107.710 -59.956  1.00 41.15      A16S
ATOM  15499  O2* G   A 741     156.743 106.794 -58.872  1.00 41.15      A16S
ATOM  15500  C3* G   A 741     155.666 107.574 -60.930  1.00 41.15      A16S
ATOM  15501  O3* G   A 741     154.418 107.490 -60.266  1.00 41.15      A16S
ATOM  15502  P   G   A 742     153.484 108.799 -60.183  1.00 43.14      A16S
ATOM  15503  O1P G   A 742     152.164 108.346 -59.684  1.00 37.66      A16S
ATOM  15504  O2P G   A 742     153.578 109.528 -61.469  1.00 37.66      A16S
ATOM  15505  O5* G   A 742     154.154 109.707 -59.064  1.00 43.14      A16S
ATOM  15506  C5* G   A 742     154.445 109.161 -57.786  1.00 43.14      A16S
ATOM  15507  C4* G   A 742     155.444 110.016 -57.059  1.00 43.14      A16S
ATOM  15508  O4* G   A 742     156.644 110.169 -57.849  1.00 43.14      A16S
ATOM  15509  C1* G   A 742     157.274 111.395 -57.522  1.00 43.14      A16S
ATOM  15510  N9  G   A 742     157.380 112.232 -58.711  1.00 37.66      A16S
ATOM  15511  C4  G   A 742     158.055 113.424 -58.784  1.00 37.66      A16S
ATOM  15512  N3  G   A 742     158.741 114.008 -57.777  1.00 37.66      A16S
ATOM  15513  C2  G   A 742     159.240 115.173 -58.134  1.00 37.66      A16S
ATOM  15514  N2  G   A 742     159.913 115.910 -57.248  1.00 37.66      A16S
ATOM  15515  N1  G   A 742     159.101 115.706 -59.385  1.00 37.66      A16S
ATOM  15516  C6  G   A 742     158.410 115.113 -60.436  1.00 37.66      A16S
ATOM  15517  O6  G   A 742     158.349 115.680 -61.528  1.00 37.66      A16S
ATOM  15518  C5  G   A 742     157.852 113.880 -60.062  1.00 37.66      A16S
ATOM  15519  N7  G   A 742     157.081 112.989 -60.787  1.00 37.66      A16S
ATOM  15520  C8  G   A 742     156.828 112.023 -59.947  1.00 37.66      A16S
ATOM  15521  C2* G   A 742     156.409 112.089 -56.484  1.00 43.14      A16S
ATOM  15522  O2* G   A 742     156.954 111.789 -55.211  1.00 43.14      A16S
ATOM  15523  C3* G   A 742     155.053 111.446 -56.746  1.00 43.14      A16S
ATOM  15524  O3* G   A 742     154.218 111.518 -55.607  1.00 43.14      A16S
ATOM  15525  P   U   A 743     153.044 112.610 -55.555  1.00 47.38      A16S
ATOM  15526  O1P U   A 743     152.410 112.397 -54.215  1.00 50.09      A16S
ATOM  15527  O2P U   A 743     152.217 112.496 -56.793  1.00 50.09      A16S
ATOM  15528  O5* U   A 743     153.820 114.004 -55.581  1.00 47.38      A16S
ATOM  15529  C5* U   A 743     154.721 114.368 -54.518  1.00 47.38      A16S
ATOM  15530  C4* U   A 743     155.461 115.637 -54.869  1.00 47.38      A16S
ATOM  15531  O4* U   A 743     156.212 115.437 -56.088  1.00 47.38      A16S
ATOM  15532  C1* U   A 743     156.263 116.643 -56.824  1.00 47.38      A16S
ATOM  15533  N1  U   A 743     155.700 116.410 -58.157  1.00 50.09      A16S
ATOM  15534  C6  U   A 743     154.911 115.320 -58.416  1.00 50.09      A16S
ATOM  15535  C2  U   A 743     156.002 117.327 -59.144  1.00 50.09      A16S
ATOM  15536  O2  U   A 743     156.697 118.318 -58.948  1.00 50.09      A16S
ATOM  15537  N3  U   A 743     155.467 117.043 -60.370  1.00 50.09      A16S
ATOM  15538  C4  U   A 743     154.688 115.957 -60.699  1.00 50.09      A16S
ATOM  15539  O4  U   A 743     154.379 115.772 -61.875  1.00 50.09      A16S
ATOM  15540  C5  U   A 743     154.411 115.070 -59.618  1.00 50.09      A16S
ATOM  15541  C2* U   A 743     155.494 117.704 -56.055  1.00 47.38      A16S
ATOM  15542  O2* U   A 743     156.437 118.489 -55.373  1.00 47.38      A16S
ATOM  15543  C3* U   A 743     154.602 116.854 -55.160  1.00 47.38      A16S
ATOM  15544  O3* U   A 743     154.253 117.522 -53.963  1.00 47.38      A16S
ATOM  15545  P   C   A 744     152.985 118.501 -53.943  1.00 59.85      A16S
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ATOM  15546  O1P C   A 744     152.591 118.610 -52.511  1.00 37.36      A16S
ATOM  15547  O2P C   A 744     151.983 118.061 -54.965  1.00 37.36      A16S
ATOM  15548  O5* C   A 744     153.583 119.894 -54.414  1.00 59.85      A16S
ATOM  15549  C5* C   A 744     154.527 120.596 -53.595  1.00 59.85      A16S
ATOM  15550  C4* C   A 744     154.925 121.879 -54.266  1.00 59.85      A16S
ATOM  15551  O4* C   A 744     155.686 121.568 -55.460  1.00 59.85      A16S
ATOM  15552  C1* C   A 744     155.325 122.457 -56.498  1.00 59.85      A16S
ATOM  15553  N1   C   A 744     154.632 121.686 -57.537  1.00 37.36      A16S
ATOM  15554  C6   C   A 744     154.046 120.487 -57.244  1.00 37.36      A16S
ATOM  15555  C2   C   A 744     154.571 122.201 -58.825  1.00 37.36      A16S
ATOM  15556  O2   C   A 744     155.096 123.299 -59.053  1.00 37.36      A16S
ATOM  15557  N3   C   A 744     153.936 121.496 -59.788  1.00 37.36      A16S
ATOM  15558  C4   C   A 744     153.369 120.325 -59.491  1.00 37.36      A16S
ATOM  15559  N4   C   A 744     152.751 119.661 -60.458  1.00 37.36      A16S
ATOM  15560  C5   C   A 744     153.410 119.782 -58.182  1.00 37.36      A16S
ATOM  15561  C2* C   A 744     154.383 123.499 -55.905  1.00 59.85      A16S
ATOM  15562  O2* C   A 744     155.134 124.619 -55.473  1.00 59.85      A16S
ATOM  15563  C3* C   A 744     153.759 122.712 -54.766  1.00 59.85      A16S
ATOM  15564  O3* C   A 744     153.176 123.528 -53.765  1.00 59.85      A16S
ATOM  15565  P    C   A 745     151.625 123.929 -53.888  1.00 50.93      A16S
ATOM  15566  O1P C   A 745     151.236 124.578 -52.620  1.00 52.87      A16S
ATOM  15567  O2P C   A 745     150.867 122.744 -54.365  1.00 52.87      A16S
ATOM  15568  O5* C   A 745     151.607 125.009 -55.059  1.00 50.93      A16S
ATOM  15569  C5* C   A 745     152.468 126.168 -55.015  1.00 50.93      A16S
ATOM  15570  C4* C   A 745     152.427 126.910 -56.332  1.00 50.93      A16S
ATOM  15571  O4* C   A 745     152.981 126.088 -57.383  1.00 50.93      A16S
ATOM  15572  C1* C   A 745     152.297 126.340 -58.594  1.00 50.93      A16S
ATOM  15573  N1   C   A 745     151.668 125.097 -59.041  1.00 52.87      A16S
ATOM  15574  C6   C   A 745     151.511 124.038 -58.193  1.00 52.87      A16S
ATOM  15575  C2   C   A 745     151.253 125.007 -60.366  1.00 52.87      A16S
ATOM  15576  O2   C   A 745     151.342 126.016 -61.089  1.00 52.87      A16S
ATOM  15577  N3   C   A 745     150.757 123.835 -60.825  1.00 52.87      A16S
ATOM  15578  C4   C   A 745     150.646 122.794 -60.001  1.00 52.87      A16S
ATOM  15579  N4   C   A 745     150.191 121.647 -60.499  1.00 52.87      A16S
ATOM  15580  C5   C   A 745     151.008 122.879 -58.627  1.00 52.87      A16S
ATOM  15581  C2* C   A 745     151.267 127.426 -58.338  1.00 50.93      A16S
ATOM  15582  O2* C   A 745     151.849 128.657 -58.696  1.00 50.93      A16S
ATOM  15583  C3* C   A 745     151.047 127.273 -56.844  1.00 50.93      A16S
ATOM  15584  O3* C   A 745     150.584 128.461 -56.252  1.00 50.93      A16S
ATOM  15585  P    A   A 746     149.009 128.716 -56.132  1.00 56.72      A16S
ATOM  15586  O1P A   A 746     148.869 129.850 -55.165  1.00 44.68      A16S
ATOM  15587  O2P A   A 746     148.307 127.434 -55.873  1.00 44.68      A16S
ATOM  15588  O5* A   A 746     148.617 129.187 -57.593  1.00 56.72      A16S
ATOM  15589  C5* A   A 746     149.106 130.424 -58.104  1.00 56.72      A16S
ATOM  15590  C4* A   A 746     148.523 130.651 -59.449  1.00 56.72      A16S
ATOM  15591  O4* A   A 746     148.999 129.604 -60.315  1.00 56.72      A16S
ATOM  15592  C1* A   A 746     147.949 129.154 -61.143  1.00 56.72      A16S
ATOM  15593  N9   A   A 746     147.751 127.732 -60.881  1.00 44.68      A16S
ATOM  15594  C4   A   A 746     147.249 126.816 -61.768  1.00 44.68      A16S
ATOM  15595  N3   A   A 746     146.827 127.045 -63.021  1.00 44.68      A16S
ATOM  15596  C2   A   A 746     146.415 125.917 -63.585  1.00 44.68      A16S
ATOM  15597  N1   A   A 746     146.380 124.686 -63.077  1.00 44.68      A16S
ATOM  15598  C6   A   A 746     146.804 124.500 -61.812  1.00 44.68      A16S
ATOM  15599  N6   A   A 746     146.758 123.278 -61.297  1.00 44.68      A16S
ATOM  15600  C5   A   A 746     147.266 125.607 -61.110  1.00 44.68      A16S
ATOM  15601  N7   A   A 746     147.757 125.753 -59.822  1.00 44.68      A16S
ATOM  15602  C8   A   A 746     148.027 127.031 -59.733  1.00 44.68      A16S
ATOM  15603  C2* A   A 746     146.715 130.007 -60.846  1.00 56.72      A16S
ATOM  15604  O2* A   A 746     146.630 131.054 -61.790  1.00 56.72      A16S
ATOM  15605  C3* A   A 746     147.018 130.500 -59.442  1.00 56.72      A16S
ATOM  15606  O3* A   A 746     146.418 131.746 -59.142  1.00 56.72      A16S
ATOM  15607  P    C   A 747     144.940 131.788 -58.521  1.00 61.86      A16S
ATOM  15608  O1P C   A 747     144.582 133.230 -58.450  1.00 61.84      A16S
ATOM  15609  O2P C   A 747     144.894 130.962 -57.280  1.00 61.84      A16S
ATOM  15610  O5* C   A 747     144.055 131.106 -59.658  1.00 61.86      A16S
ATOM  15611  C5* C   A 747     143.952 131.714 -60.952  1.00 61.86      A16S
ATOM  15612  C4* C   A 747     143.048 130.908 -61.844  1.00 61.86      A16S
ATOM  15613  O4* C   A 747     143.677 129.666 -62.225  1.00 61.86      A16S
ATOM  15614  C1* C   A 747     142.679 128.694 -62.480  1.00 61.86      A16S
ATOM  15615  N1   C   A 747     143.018 127.450 -61.764  1.00 61.84      A16S
ATOM  15616  C6   C   A 747     143.641 127.490 -60.548  1.00 61.84      A16S
ATOM  15617  C2   C   A 747     142.688 126.209 -62.351  1.00 61.84      A16S
ATOM  15618  O2   C   A 747     142.134 126.186 -63.468  1.00 61.84      A16S
ATOM  15619  N3   C   A 747     142.986 125.074 -61.688  1.00 61.84      A16S
ATOM  15620  C4   C   A 747     143.590 125.132 -60.503  1.00 61.84      A16S
ATOM  15621  N4   C   A 747     143.859 123.986 -59.886  1.00 61.84      A16S
ATOM  15622  C5   C   A 747     143.944 126.368 -59.893  1.00 61.84      A16S
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ATOM  15623  C2* C   A 747     141.318 129.298 -62.120  1.00 61.86      A16S
ATOM  15624  O2* C   A 747     140.662 129.664 -63.319  1.00 61.86      A16S
ATOM  15625  C3* C   A 747     141.712 130.495 -61.258  1.00 61.86      A16S
ATOM  15626  O3* C   A 747     140.793 131.569 -61.385  1.00 61.86      A16S
ATOM  15627  P   C   A 748     139.611 131.734 -60.320  1.00105.41      A16S
ATOM  15628  O1P C   A 748     139.093 133.106 -60.483  1.00 78.45      A16S
ATOM  15629  O2P C   A 748     140.087 131.286 -58.987  1.00 78.45      A16S
ATOM  15630  O5* C   A 748     138.495 130.739 -60.861  1.00105.41      A16S
ATOM  15631  C5* C   A 748     137.508 130.191 -59.980  1.00105.41      A16S
ATOM  15632  C4* C   A 748     137.544 128.691 -60.052  1.00105.41      A16S
ATOM  15633  O4* C   A 748     138.927 128.285 -60.094  1.00105.41      A16S
ATOM  15634  C1* C   A 748     139.113 127.136 -59.304  1.00105.41      A16S
ATOM  15635  N1  C   A 748     140.227 127.387 -58.377  1.00 78.45      A16S
ATOM  15636  C6  C   A 748     140.449 128.631 -57.861  1.00 78.45      A16S
ATOM  15637  C2  C   A 748     141.087 126.329 -58.059  1.00 78.45      A16S
ATOM  15638  O2  C   A 748     140.841 125.196 -58.504  1.00 78.45      A16S
ATOM  15639  N3  C   A 748     142.163 126.564 -57.276  1.00 78.45      A16S
ATOM  15640  C4  C   A 748     142.389 127.788 -56.809  1.00 78.45      A16S
ATOM  15641  N4  C   A 748     143.477 127.974 -56.069  1.00 78.45      A16S
ATOM  15642  C5  C   A 748     141.512 128.874 -57.085  1.00 78.45      A16S
ATOM  15643  C2* C   A 748     137.767 126.709 -58.712  1.00105.41      A16S
ATOM  15644  O2* C   A 748     137.317 125.592 -59.444  1.00105.41      A16S
ATOM  15645  C3* C   A 748     136.937 127.987 -58.850  1.00105.41      A16S
ATOM  15646  O3* C   A 748     135.496 127.893 -58.976  1.00105.41      A16S
ATOM  15647  P   C   A 749     134.795 126.700 -59.824  1.00 47,80      A16S
ATOM  15648  O1P C   A 749     133.405 127.164 -60.104  1.00 71.27      A16S
ATOM  15649  O2P C   A 749     134.992 125.393 -59.119  1.00 71.27      A16S
ATOM  15650  O5* C   A 749     135.592 126.677 -61.207  1.00 47.80      A16S
ATOM  15651  C5* C   A 749     134.898 126.809 -62.441  1.00 47.80      A16S
ATOM  15652  C4* C   A 749     134.943 125.515 -63.201  1.00 47.80      A16S
ATOM  15653  O4* C   A 749     136.290 125.279 -63.671  1.00 47.80      A16S
ATOM  15654  C1* C   A 749     136.527 123.882 -63.751  1.00 47.80      A16S
ATOM  15655  N1  C   A 749     137.697 123.529 -62.909  1.00 71.27      A16S
ATOM  15656  C6  C   A 749     138.281 124.453 -62.085  1.00 71.27      A16S
ATOM  15657  C2  C   A 749     138.184 122.210 -62.944  1.00 71.27      A16S
ATOM  15658  O2  C   A 749     137.694 121.401 -63.751  1.00 71.27      A16S
ATOM  15659  N3  C   A 749     139.181 121.858 -62.108  1.00 71.27      A16S
ATOM  15660  C4  C   A 749     139.712 122.759 -61.285  1.00 71.27      A16S
ATOM  15661  N4  C   A 749     140.670 122.355 -60.464  1.00 71.27      A16S
ATOM  15662  C5  C   A 749     139.281 124.112 -61.266  1.00 71.27      A16S
ATOM  15663  C2* C   A 749     135.251 123.172 -63.286  1.00 47.80      A16S
ATOM  15664  O2* C   A 749     134.479 122.785 -64.408  1.00 47.80      A16S
ATOM  15665  C3* C   A 749     134.575 124.248 -62.450  1.00 47.80      A16S
ATOM  15666  O3* C   A 749     133.176 124.027 -62.410  1.00 47.80      A16S
ATOM  15667  P   G   A 750     132.565 122.952 -61.375  1.00 53.75      A16S
ATOM  15668  O1P G   A 750     131.092 122.914 -61.571  1.00 52.19      A16S
ATOM  15669  O2P G   A 750     133.118 123.286 -60.027  1.00 52.19      A16S
ATOM  15670  O5* G   A 750     133.123 121.532 -61.857  1.00 53.75      A16S
ATOM  15671  C5* G   A 750     132.442 120.776 -62.879  1.00 53.75      A16S
ATOM  15672  C4* G   A 750     132.959 119.350 -62.936  1.00 53.75      A16S
ATOM  15673  O4* G   A 750     134.409 119.375 -62.954  1.00 53.75      A16S
ATOM  15674  C1* G   A 750     134.924 118.276 -62.218  1.00 53.75      A16S
ATOM  15675  N9  G   A 750     135.636 118.804 -61.051  1.00 52.19      A16S
ATOM  15676  C4  G   A 750     136.222 118.081 -60.035  1.00 52.19      A16S
ATOM  15677  N3  G   A 750     136.230 116.743 -59.919  1.00 52.19      A16S
ATOM  15678  C2  G   A 750     136.875 116.345 -58.838  1.00 52.19      A16S
ATOM  15679  N2  G   A 750     136.971 115.040 -58.568  1.00 52.19      A16S
ATOM  15680  N1  G   A 750     137.473 117.196 -57.943  1.00 52.19      A16S
ATOM  15681  C6  G   A 750     137.484 118.578 -58.048  1.00 52.19      A16S
ATOM  15682  O6  G   A 750     138.065 119.252 -57.196  1.00 52.19      A16S
ATOM  15683  C5  G   A 750     136.786 119.018 -59.196  1.00 52.19      A16S
ATOM  15684  N7  G   A 750     136.548 120.301 -59.660  1.00 52.19      A16S
ATOM  15685  C8  G   A 750     135.863 120.127 -60.756  1.00 52.19      A16S
ATOM  15686  C2* G   A 750     133.737 117.399 -61.838  1.00 53.75      A16S
ATOM  15687  O2* G   A 750     133.526 116.452 -62.867  1.00 53.75      A16S
ATOM  15688  C3* G   A 750     132.618 118.426 -61.773  1.00 53.75      A16S
ATOM  15689  O3* G   A 750     131.342 117.804 -61.903  1.00 53.75      A16S
ATOM  15690  P   U   A 751     130.469 117.507 -60.584  1.00 51.91      A16S
ATOM  15691  O1P U   A 751     129.125 117.047 -61.025  1.00 44.16      A16S
ATOM  15692  O2P U   A 751     130.593 118.696 -59.691  1.00 44.16      A16S
ATOM  15693  O5* U   A 751     131.202 116.279 -59.885  1.00 51.91      A16S
ATOM  15694  C5* U   A 751     131.244 114.992 -60.523  1.00 51.91      A16S
ATOM  15695  C4* U   A 751     131.945 113.986 -59.639  1.00 51.91      A16S
ATOM  15696  O4* U   A 751     133.324 114.376 -59.437  1.00 51.91      A16S
ATOM  15697  C1* U   A 751     133.741 113.993 -58.144  1.00 51.91      A16S
ATOM  15698  N1  U   A 751     134.168 115.198 -57.420  1.00 44.16      A16S
ATOM  15699  C6  U   A 751     133.851 116.452 -57.871  1.00 44.16      A16S
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ATOM  15700  C2  U   A 751     134.918 115.033 -56.268  1.00 44.16      A16S
ATOM  15701  O2  U   A 751     135.198 113.935 -55.807  1.00 44.16      A16S
ATOM  15702  N3  U   A 751     135.325 116.200 -55.669  1.00 44.16      A16S
ATOM  15703  C4  U   A 751     135.056 117.479 -56.081  1.00 44.16      A16S
ATOM  15704  O4  U   A 751     135.548 118.426 -55.475  1.00 44.16      A16S
ATOM  15705  C5  U   A 751     134.257 117.567 -57.256  1.00 44.16      A16S
ATOM  15706  C2* U   A 751     132.584 113.250 -57.483  1.00 51.91      A16S
ATOM  15707  O2* U   A 751     132.740 111.866 -57.743  1.00 51.91      A16S
ATOM  15708  C3* U   A 751     131.392 113.815 -58.236  1.00 51.91      A16S
ATOM  15709  O3* U   A 751     130.314 112.895 -58.239  1.00 51.91      A16S
ATOM  15710  P   G   A 752     128.985 113.233 -57.403  1.00 39.20      A16S
ATOM  15711  O1P G   A 752     128.038 112.083 -57.595  1.00 43.78      A16S
ATOM  15712  O2P G   A 752     128.567 114.623 -57.754  1.00 43.78      A16S
ATOM  15713  O5* G   A 752     129.462 113.263 -55.885  1.00 39.20      A16S
ATOM  15714  C5* G   A 752     130.087 112.121 -55.293  1.00 39.20      A16S
ATOM  15715  C4* G   A 752     130.784 112.537 -54.046  1.00 39.20      A16S
ATOM  15716  O4* G   A 752     131.508 113.751 -54.357  1.00 39.20      A16S
ATOM  15717  C1* G   A 752     131.152 114.747 -53.441  1.00 39.20      A16S
ATOM  15718  N9  G   A 752     131.254 116.043 -54.081  1.00 43.78      A16S
ATOM  15719  C4  G   A 752     132.092 117.044 -53.698  1.00 43.78      A16S
ATOM  15720  N3  G   A 752     132.965 116.988 -52.676  1.00 43.78      A16S
ATOM  15721  C2  G   A 752     133.632 118.117 -52.532  1.00 43.78      A16S
ATOM  15722  N2  G   A 752     134.553 118.245 -51.556  1.00 43.78      A16S
ATOM  15723  N1  G   A 752     133.451 119.209 -53.330  1.00 43.78      A16S
ATOM  15724  C6  G   A 752     132.561 119.284 -54.393  1.00 43.78      A16S
ATOM  15725  O6  G   A 752     132.485 120.330 -55.062  1.00 43.78      A16S
ATOM  15726  C5  G   A 752     131.841 118.080 -54.554  1.00 43.78      A16S
ATOM  15727  N7  G   A 752     130.863 117.733 -55.472  1.00 43.78      A16S
ATOM  15728  C8  G   A 752     130.548 116.510 -55.154  1.00 43.78      A16S
ATOM  15729  C2* G   A 752     129.763 114.386 -52.952  1.00 39.20      A16S
ATOM  15730  O2* G   A 752     129.556 115.003 -51.705  1.00 39.20      A16S
ATOM  15731  C3* G   A 752     129.879 112.873 -52.866  1.00 39.20      A16S
ATOM  15732  O3* G   A 752     130.638 112.582 -51.701  1.00 39.20      A16S
ATOM  15733  P   A   A 753     129.981 111.809 -50.459  1.00 38.01      A16S
ATOM  15734  O1P A   A 753     129.580 110.442 -50.910  1.00 39.76      A16S
ATOM  15735  O2P A   A 753     128.994 112.699 -49.794  1.00 39.76      A16S
ATOM  15736  O5* A   A 753     131.216 111.649 -49.471  1.00 38.01      A16S
ATOM  15737  C5* A   A 753     132.318 110.797 -49.825  1.00 38.01      A16S
ATOM  15738  C4* A   A 753     133.278 110.697 -48.679  1.00 38.01      A16S
ATOM  15739  O4* A   A 753     133.988 111.948 -48.550  1.00 38.01      A16S
ATOM  15740  C1* A   A 753     133.885 112.406 -47.227  1.00 38.01      A16S
ATOM  15741  N9  A   A 753     133.947 113.863 -47.233  1.00 39.76      A16S
ATOM  15742  C4  A   A 753     134.647 114.622 -46.340  1.00 39.76      A16S
ATOM  15743  N3  A   A 753     135.356 114.187 -45.293  1.00 39.76      A16S
ATOM  15744  C2  A   A 753     135.922 115.215 -44.658  1.00 39.76      A16S
ATOM  15745  N1  A   A 753     135.863 116.524 -44.936  1.00 39.76      A16S
ATOM  15746  C6  A   A 753     135.140 116.914 -46.001  1.00 39.76      A16S
ATOM  15747  N6  A   A 753     135.084 118.213 -46.289  1.00 39.76      A16S
ATOM  15748  C5  A   A 753     134.490 115.926 -46.747  1.00 39.76      A16S
ATOM  15749  N7  A   A 753     133.682 115.993 -47.861  1.00 39.76      A16S
ATOM  15750  C8  A   A 753     133.382 114.744 -48.105  1.00 39.76      A16S
ATOM  15751  C2* A   A 753     132.617 111.782 -46.663  1.00 38.01      A16S
ATOM  15752  O2* A   A 753     132.718 111.694 -45.258  1.00 38.01      A16S
ATOM  15753  C3* A   A 753     132.639 110.411 -47.327  1.00 38.01      A16S
ATOM  15754  O3* A   A 753     133.490 109.555 -46.587  1.00 38.01      A16S
ATOM  15755  P   C   A 754     133.378 107.963 -46.770  1.00 33.18      A16S
ATOM  15756  O1P C   A 754     131.923 107.601 -46.818  1.00 34.52      A16S
ATOM  15757  O2P C   A 754     134.268 107.336 -45.752  1.00 34.52      A16S
ATOM  15758  O5* C   A 754     134.036 107.683 -48.194  1.00 33.18      A16S
ATOM  15759  C5* C   A 754     135.438 107.880 -48.373  1.00 33.18      A16S
ATOM  15760  C4* C   A 754     135.839 107.580 -49.783  1.00 33.18      A16S
ATOM  15761  O4* C   A 754     134.976 108.295 -50.684  1.00 33.18      A16S
ATOM  15762  C1* C   A 754     135.719 108.721 -51.806  1.00 33.18      A16S
ATOM  15763  N1  C   A 754     135.450 110.153 -52.016  1.00 34.52      A16S
ATOM  15764  C6  C   A 754     134.812 110.573 -53.144  1.00 34.52      A16S
ATOM  15765  C2  C   A 754     135.843 111.078 -51.045  1.00 34.52      A16S
ATOM  15766  O2  C   A 754     136.440 110.674 -50.033  1.00 34.52      A16S
ATOM  15767  N3  C   A 754     135.563 112.385 -51.231  1.00 34.52      A16S
ATOM  15768  C4  C   A 754     134.931 112.775 -52.326  1.00 34.52      A16S
ATOM  15769  N4  C   A 754     134.663 114.055 -52.455  1.00 34.52      A16S
ATOM  15770  C5  C   A 754     134.539 111.862 -53.337  1.00 34.52      A16S
ATOM  15771  C2* C   A 754     137.187 108.323 -51.608  1.00 33.18      A16S
ATOM  15772  O2* C   A 754     137.506 107.180 -52.371  1.00 33.18      A16S
ATOM  15773  C3* C   A 754     137.245 108.046 -50.112  1.00 33.18      A16S
ATOM  15774  O3* C   A 754     138.183 107.020 -49.799  1.00 33.18      A16S
ATOM  15775  P   G   A 755     139.730 107.391 -49.559  1.00 30.05      A16S
ATOM  15776  O1P G   A 755     140.233 107.986 -50.829  1.00 30.89      A16S
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ATOM  15777  O2P G   A 755     140.391 106.185 -49.007  1.00 30.89      A16S
ATOM  15778  O5* G   A 755     139.710 108.501 -48.419  1.00 30.05      A16S
ATOM  15779  C5* G   A 755     140.133 109.836 -48.688  1.00 30.05      A16S
ATOM  15780  C4* G   A 755     140.323 110.582 -47.401  1.00 30.05      A16S
ATOM  15781  O4* G   A 755     139.090 110.510 -46.649  1.00 30.05      A16S
ATOM  15782  C1* G   A 755     139.362 110.235 -45.291  1.00 30.05      A16S
ATOM  15783  N9  G   A 755     138.945 108.860 -45.044  1.00 30.89      A16S
ATOM  15784  C4  G   A 755     138.947 108.199 -43.844  1.00 30.89      A16S
ATOM  15785  N3  G   A 755     139.350 108.700 -42.667  1.00 30.89      A16S
ATOM  15786  C2  G   A 755     139.257 107.811 -41.704  1.00 30.89      A16S
ATOM  15787  N2  G   A 755     139.649 108.126 -40.485  1.00 30.89      A16S
ATOM  15788  N1  G   A 755     138.788 106.546 -41.868  1.00 30.89      A16S
ATOM  15789  C6  G   A 755     138.365 106.009 -43.070  1.00 30.89      A16S
ATOM  15790  O6  G   A 755     137.965 104.838 -43.119  1.00 30.89      A16S
ATOM  15791  C5  G   A 755     138.470 106.942 -44.119  1.00 30.89      A16S
ATOM  15792  N7  G   A 755     138.172 106.811 -45.465  1.00 30.89      A16S
ATOM  15793  C8  G   A 755     138.471 107.971 -45.973  1.00 30.89      A16S
ATOM  15794  C2* G   A 755     140.860 110.401 -45.108  1.00 30.05      A16S
ATOM  15795  O2* G   A 755     141.088 111.760 -44.821  1.00 30.05      A16S
ATOM  15796  C3* G   A 755     141.359 109.983 -46.481  1.00 30.05      A16S
ATOM  15797  O3* G   A 755     142.659 110.436 -46.807  1.00 30.05      A16S
ATOM  15798  P   C   A 756     143.890 109.401 -46.717  1.00 29.63      A16S
ATOM  15799  O1P C   A 756     145.078 109.987 -47.422  1.00 36.84      A16S
ATOM  15800  O2P C   A 756     143.380 108.052 -47.119  1.00 36.84      A16S
ATOM  15801  O5* C   A 756     144.218 109.358 -45.164  1.00 29.63      A16S
ATOM  15802  C5* C   A 756     144.638 110.539 -44.494  1.00 29.63      A16S
ATOM  15803  C4* C   A 756     144.834 110.247 -43.048  1.00 29.63      A16S
ATOM  15804  O4* C   A 756     143.563 109.846 -42.490  1.00 29.63      A16S
ATOM  15805  C1* C   A 756     143.768 108.871 -41.483  1.00 29.63      A16S
ATOM  15806  N1  C   A 756     143.069 107.635 -41.876  1.00 36.84      A16S
ATOM  15807  C6  C   A 756     142.664 107.427 -43.168  1.00 36.84      A16S
ATOM  15808  C2  C   A 756     142.826 106.672 -40.901  1.00 36.84      A16S
ATOM  15809  O2  C   A 756     143.221 106.880 -39.746  1.00 36.84      A16S
ATOM  15810  N3  C   A 756     142.177 105.539 -41.239  1.00 36.84      A16S
ATOM  15811  C4  C   A 756     141.787 105.341 -42.501  1.00 36.84      A16S
ATOM  15812  N4  C   A 756     141.160 104.192 -42.792  1.00 36.84      A16S
ATOM  15813  C5  C   A 756     142.027 106.305 -43.523  1.00 36.84      A16S
ATOM  15814  C2* C   A 756     145.274 108.663 -41.357  1.00 29.63      A16S
ATOM  15815  O2* C   A 756     145.804 109.513 -40.351  1.00 29.63      A16S
ATOM  15816  C3* C   A 756     145.741 109.077 -42.739  1.00 29.63      A16S
ATOM  15817  O3* C   A 756     147.106 109.409 -42.746  1.00 29.63      A16S
ATOM  15818  P   U   A 757     148.180 108.253 -43.024  1.00 25.91      A16S
ATOM  15819  O1P U   A 757     149.480 108.933 -42.954  1.00 24.35      A16S
ATOM  15820  O2P U   A 757     147.812 107.470 -44.255  1.00 24.35      A16S
ATOM  15821  O5* U   A 757     148.023 107.274 -41.775  1.00 25.91      A16S
ATOM  15822  C5* U   A 757     148.433 107.680 -40.457  1.00 25.91      A16S
ATOM  15823  C4* U   A 757     148.184 106.567 -39.476  1.00 25.91      A16S
ATOM  15824  O4* U   A 757     146.770 106.273 -39.468  1.00 25.91      A16S
ATOM  15825  C1* U   A 757     146.568 104.892 -39.270  1.00 25.91      A16S
ATOM  15826  N1  U   A 757     145.829 104.345 -40.414  1.00 24.35      A16S
ATOM  15827  C6  U   A 757     145.848 104.933 -41.643  1.00 24.35      A16S
ATOM  15828  C2  U   A 757     145.116 103.195 -40.197  1.00 24.35      A16S
ATOM  15829  O2  U   A 757     145.069 102.653 -39.119  1.00 24.35      A16S
ATOM  15830  N3  U   A 757     144.458 102.696 -41.282  1.00 24.35      A16S
ATOM  15831  C4  U   A 757     144.436 103.217 -42.537  1.00 24.35      A16S
ATOM  15832  O4  U   A 757     143.800 102.636 -43.421  1.00 24.35      A16S
ATOM  15833  C5  U   A 757     145.193 104.422 -42.688  1.00 24.35      A16S
ATOM  15834  C2* U   A 757     147.932 104.238 -39.116  1.00 25.91      A16S
ATOM  15835  O2* U   A 757     148.214 104.114 -37.749  1.00 25.91      A16S
ATOM  15836  C3* U   A 757     148.830 105.239 -39.816  1.00 25.91      A16S
ATOM  15837  O3* U   A 757     150.158 105.161 -39.348  1.00 25.91      A16S
ATOM  15838  P   G   A 758     151.213 104.230 -40.127  1.00 20.01      A16S
ATOM  15839  O1P G   A 758     152.518 104.371 -39.397  1.00 30.88      A16S
ATOM  15840  O2P G   A 758     151.165 104.462 -41.601  1.00 30.88      A16S
ATOM  15841  O5* G   A 758     150.620 102.771 -39.935  1.00 20.01      A16S
ATOM  15842  C5* G   A 758     150.435 102.223 -38.640  1.00 20.01      A16S
ATOM  15843  C4* G   A 758     149.570 101.013 -38.735  1.00 20.01      A16S
ATOM  15844  O4* G   A 758     148.303 101.401 -39.306  1.00 20.01      A16S
ATOM  15845  C1* G   A 758     147.811 100.373 -40.131  1.00 20.01      A16S
ATOM  15846  N9  G   A 758     147.693 100.901 -41.481  1.00 30.88      A16S
ATOM  15847  C4  G   A 758     146.843 100.466 -42.462  1.00 30.88      A16S
ATOM  15848  N3  G   A 758     145.960  99.464 -42.354  1.00 30.88      A16S
ATOM  15849  C2  G   A 758     145.285  99.292 -43.469  1.00 30.88      A16S
ATOM  15850  N2  G   A 758     144.340  98.357 -43.536  1.00 30.88      A16S
ATOM  15851  N1  G   A 758     145.480 100.027 -44.598  1.00 30.88      A16S
ATOM  15852  C6  G   A 758     146.392 101.054 -44.726  1.00 30.88      A16S
ATOM  15853  O6  G   A 758     146.499 101.644 -45.786  1.00 30.88      A16S
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ATOM  15854  C5  G   A 758     147.100 101.265 -43.549  1.00 30.88      A16S
ATOM  15855  N7  G   A 758     148.092 102.185 -43.263  1.00 30.88      A16S
ATOM  15856  C8  G   A 758     148.413 101.934 -42.026  1.00 30.88      A16S
ATOM  15857  C2* G   A 758     148.795  99.216 -40.032  1.00 20.01      A16S
ATOM  15858  O2* G   A 758     148.343  98.409 -38.965  1.00 20.01      A16S
ATOM  15859  C3* G   A 758     150.083  99.931 -39.655  1.00 20.01      A16S
ATOM  15860  O3* G   A 758     150.990  99.117 -38.925  1.00 20.01      A16S
ATOM  15861  P   A   A 759     151.562  97.749 -39.567  1.00 39.75      A16S
ATOM  15862  O1P A   A 759     153.027  97.759 -39.330  1.00 37.35      A16S
ATOM  15863  O2P A   A 759     151.042  97.574 -40.942  1.00 37.35      A16S
ATOM  15864  O5* A   A 759     150.936  96.607 -38.649  1.00 39.75      A16S
ATOM  15865  C5* A   A 759     150.937  96.759 -37.217  1.00 39.75      A16S
ATOM  15866  C4* A   A 759     150.525  95.478 -36.538  1.00 39.75      A16S
ATOM  15867  O4* A   A 759     149.091  95.278 -36.591  1.00 39.75      A16S
ATOM  15868  C1* A   A 759     148.811  93.895 -36.513  1.00 39.75      A16S
ATOM  15869  N9  A   A 759     148.042  93.491 -37.678  1.00 37.35      A16S
ATOM  15870  C4  A   A 759     147.226  92.393 -37.734  1.00 37.35      A16S
ATOM  15871  N3  A   A 759     146.947  91.533 -36.738  1.00 37.35      A16S
ATOM  15872  C2  A   A 759     146.128  90.570 -37.167  1.00 37.35      A16S
ATOM  15873  N1  A   A 759     145.604  90.393 -38.383  1.00 37.35      A16S
ATOM  15874  C6  A   A 759     145.910  91.286 -39.351  1.00 37.35      A16S
ATOM  15875  N6  A   A 759     145.393  91.121 -40.556  1.00 37.35      A16S
ATOM  15876  C5  A   A 759     146.757  92.339 -39.026  1.00 37.35      A16S
ATOM  15877  N7  A   A 759     147.245  93.398 -39.768  1.00 37.35      A16S
ATOM  15878  C8  A   A 759     147.995  94.056 -38.921  1.00 37.35      A16S
ATOM  15879  C2* A   A 759     150.142  93.156 -36.509  1.00 39.75      A16S
ATOM  15880  O2* A   A 759     150.464  92.853 -35.172  1.00 39.75      A16S
ATOM  15881  C3* A   A 759     151.080  94.193 -37.102  1.00 39.75      A16S
ATOM  15882  O3* A   A 759     152.398  93.975 -36.679  1.00 39.75      A16S
ATOM  15883  P   G   A 760     153.476  93.423 -37.724  1.00 44.93      A16S
ATOM  15884  O1P G   A 760     154.460  92.737 -36.852  1.00 44.42      A16S
ATOM  15885  O2P G   A 760     153.918  94.528 -38.602  1.00 44.42      A16S
ATOM  15886  O5* G   A 760     152.681  92.379 -38.641  1.00 44.93      A16S
ATOM  15887  C5* G   A 760     152.332  91.087 -38.124  1.00 44.93      A16S
ATOM  15888  C4* G   A 760     151.599  90.241 -39.148  1.00 44.93      A16S
ATOM  15889  O4* G   A 760     150.292  90.790 -39.458  1.00 44.93      A16S
ATOM  15890  C1* G   A 760     149.850  90.260 -40.695  1.00 44.93      A16S
ATOM  15891  N9  G   A 760     149.552  91.345 -41.616  1.00 44.42      A16S
ATOM  15892  C4  G   A 760     148.748  91.254 -42.712  1.00 44.42      A16S
ATOM  15893  N3  G   A 760     148.054  90.168 -43.085  1.00 44.42      A16S
ATOM  15894  C2  G   A 760     147.393  90.371 -44.201  1.00 44.42      A16S
ATOM  15895  N2  G   A 760     146.659  89.389 -44.717  1.00 44.42      A16S
ATOM  15896  N1  G   A 760     147.404  91.548 -44.899  1.00 44.42      A16S
ATOM  15897  C6  G   A 760     148.116  92.684 -44.532  1.00 44.42      A16S
ATOM  15898  O6  G   A 760     148.063  93.710 -45.237  1.00 44.42      A16S
ATOM  15899  C5  G   A 760     148.833  92.476 -43.334  1.00 44.42      A16S
ATOM  15900  N7  G   A 760     149.658  93.331 -42.625  1.00 44.42      A16S
ATOM  15901  C8  G   A 760     150.052  92.621 -41.606  1.00 44.42      A16S
ATOM  15902  C2* G   A 760     151.004  89.451 -41.284  1.00 44.93      A16S
ATOM  15903  O2* G   A 760     150.822  88.071 -41.044  1.00 44.93      A16S
ATOM  15904  C3* G   A 760     152.200  89.998 -40.519  1.00 44.93      A16S
ATOM  15905  O3* G   A 760     153.223  89.024 -40.553  1.00 44.93      A16S
ATOM  15906  P   G   A 761     154.201  88.967 -41.826  1.00 42.74      A16S
ATOM  15907  O1P G   A 761     154.854  87.640 -41.825  1.00 45.85      A16S
ATOM  15908  O2P G   A 761     155.039  90.197 -41.835  1.00 45.85      A16S
ATOM  15909  O5* G   A 761     153.227  89.014 -43.081  1.00 42.74      A16S
ATOM  15910  C5* G   A 761     152.574  87.831 -43.537  1.00 42.74      A16S
ATOM  15911  C4* G   A 761     151.937  88.079 -44.873  1.00 42.74      A16S
ATOM  15912  O4* G   A 761     151.004  89.177 -44.745  1.00 42.74      A16S
ATOM  15913  C1* G   A 761     151.044  89.988 -45.908  1.00 42.74      A16S
ATOM  15914  N9  G   A 761     151.535  91.308 -45.515  1.00 45.85      A16S
ATOM  15915  C4  G   A 761     151.542  92.461 -46.269  1.00 45.85      A16S
ATOM  15916  N3  G   A 761     151.072  92.595 -47.520  1.00 45.85      A16S
ATOM  15917  C2  G   A 761     151.248  93.817 -47.981  1.00 45.85      A16S
ATOM  15918  N2  G   A 761     150.835  94.132 -49.207  1.00 45.85      A16S
ATOM  15919  N1  G   A 761     151.844  94.828 -47.276  1.00 45.85      A16S
ATOM  15920  C6  G   A 761     152.337  94.714 -45.983  1.00 45.85      A16S
ATOM  15921  O6  G   A 761     152.873  95.697 -45.423  1.00 45.85      A16S
ATOM  15922  C5  G   A 761     152.146  93.408 -45.475  1.00 45.85      A16S
ATOM  15923  N7  G   A 761     152.490  92.873 -44.245  1.00 45.85      A16S
ATOM  15924  C8  G   A 761     152.108  91.632 -44.313  1.00 45.85      A16S
ATOM  15925  C2* G   A 761     151.982  89.300 -46.899  1.00 42.74      A16S
ATOM  15926  O2* G   A 761     151.235  88.449 -47.740  1.00 42.74      A16S
ATOM  15927  C3* G   A 761     152.889  88.518 -45.965  1.00 42.74      A16S
ATOM  15928  O3* G   A 761     153.480  87.416 -46.618  1.00 42.74      A16S
ATOM  15929  P   C   A 762     154.949  87.571 -47.247  1.00 52.21      A16S
ATOM  15930  O1P C   A 762     155.296  86.290 -47.929  1.00 40.46      A16S
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ATOM  15931  O2P C   A 762     155.854  88.129 -46.194  1.00 40.46      A16S
ATOM  15932  O5* C   A 762     154.756  88.631 -48.409  1.00 52.21      A16S
ATOM  15933  C5* C   A 762     154.174  88.236 -49.640  1.00 52.21      A16S
ATOM  15934  C4* C   A 762     154.048  89.427 -50.526  1.00 52.21      A16S
ATOM  15935  O4* C   A 762     153.315  90.432 -49.788  1.00 52.21      A16S
ATOM  15936  C1* C   A 762     153.810  91.717 -50.104  1.00 52.21      A16S
ATOM  15937  N1  C   A 762     154.343  92.328 -48.880  1.00 40.46      A16S
ATOM  15938  C6  C   A 762     154.457  91.611 -47.723  1.00 40.46      A16S
ATOM  15939  C2  C   A 762     154.751  93.666 -48.924  1.00 40.46      A16S
ATOM  15940  O2  C   A 762     154.615  94.306 -49.980  1.00 40.46      A16S
ATOM  15941  N3  C   A 762     155.283  94.229 -47.820  1.00 40.46      A16S
ATOM  15942  C4  C   A 762     155.403  93.517 -46.703  1.00 40.46      A16S
ATOM  15943  N4  C   A 762     155.939  94.116 -45.649  1.00 40.46      A16S
ATOM  15944  C5  C   A 762     154.978  92.160 -46.621  1.00 40.46      A16S
ATOM  15945  C2* C   A 762     154.904  91.538 -51.150  1.00 52.21      A16S
ATOM  15946  O2* C   A 762     154.363  91.672 -52.449  1.00 52.21      A16S
ATOM  15947  C3* C   A 762     155.352  90.121 -50.863  1.00 52.21      A16S
ATOM  15948  O3* C   A 762     156.038  89.554 -51.955  1.00 52.21      A16S
ATOM  15949  P   G   A 763     157.643  89.541 -51.939  1.00 42.51      A16S
ATOM  15950  O1P G   A 763     158.022  88.646 -53.061  1.00 29.38      A16S
ATOM  15951  O2P G   A 763     158.122  89.240 -50.570  1.00 29.38      A16S
ATOM  15952  O5* G   A 763     158.053  91.046 -52.268  1.00 42.51      A16S
ATOM  15953  C5* G   A 763     157.692  91.613 -53.525  1.00 42.51      A16S
ATOM  15954  C4* G   A 763     157.925  93.099 -53.543  1.00 42.51      A16S
ATOM  15955  O4* G   A 763     157.124  93.748 -52.529  1.00 42.51      A16S
ATOM  15956  C1* G   A 763     157.767  94.940 -52.114  1.00 42.51      A16S
ATOM  15957  N9  G   A 763     158.068  94.845 -50.691  1.00 29.38      A16S
ATOM  15958  C4  G   A 763     158.575  95.846 -49.914  1.00 29.38      A16S
ATOM  15959  N3  G   A 763     158.871  97.085 -50.332  1.00 29.38      A16S
ATOM  15960  C2  G   A 763     159.341  97.832 -49.361  1.00 29.38      A16S
ATOM  15961  N2  G   A 763     159.678  99.104 -49.611  1.00 29.38      A16S
ATOM  15962  N1  G   A 763     159.515  97.391 -48.077  1.00 29.38      A16S
ATOM  15963  C6  G   A 763     159.219  96.109 -47.628  1.00 29.38      A16S
ATOM  15964  O6  G   A 763     159.422  95.801 -46.446  1.00 29.38      A16S
ATOM  15965  C5  G   A 763     158.706  95.308 -48.662  1.00 29.38      A16S
ATOM  15966  N7  G   A 763     158.283  93.991 -48.645  1.00 29.38      A16S
ATOM  15967  C8  G   A 763     157.915  93.759 -49.873  1.00 29.38      A16S
ATOM  15968  C2* G   A 763     159.055  95.064 -52.919  1.00 42.51      A16S
ATOM  15969  O2* G   A 763     158.818  95.871 -54.063  1.00 42.51      A16S
ATOM  15970  C3* G   A 763     159.321  93.608 -53.264  1.00 42.51      A16S
ATOM  15971  O3* G   A 763     160.188  93.488 -54.365  1.00 42.51      A16S
ATOM  15972  P   C   A 764     161.747  93.225 -54.097  1.00 31.27      A16S
ATOM  15973  O1P C   A 764     162.340  92.879 -55.420  1.00 22.65      A16S
ATOM  15974  O2P C   A 764     161.875  92.280 -52.944  1.00 22.65      A16S
ATOM  15975  O5* C   A 764     162.299  94.644 -53.642  1.00 31.27      A16S
ATOM  15976  C5* C   A 764     162.187  95.766 -54.516  1.00 31.27      A16S
ATOM  15977  C4* C   A 764     162.573  97.028 -53.800  1.00 31.27      A16S
ATOM  15978  O4* C   A 764     161.662  97.280 -52.707  1.00 31.27      A16S
ATOM  15979  C1* C   A 764     162.364  97.851 -51.626  1.00 31.27      A16S
ATOM  15980  N1  C   A 764     162.289  96.918 -50.490  1.00 22.65      A16S
ATOM  15981  C6  C   A 764     161.960  95.602 -50.681  1.00 22.65      A16S
ATOM  15982  C2  C   A 764     162.572  97.390 -49.206  1.00 22.65      A16S
ATOM  15983  O2  C   A 764     162.841  98.589 -49.054  1.00 22.65      A16S
ATOM  15984  N3  C   A 764     162.545  96.526 -48.160  1.00 22.65      A16S
ATOM  15985  C4  C   A 764     162.247  95.244 -48.363  1.00 22.65      A16S
ATOM  15986  N4  C   A 764     162.263  94.431 -47.319  1.00 22.65      A16S
ATOM  15987  C5  C   A 764     161.927  94.741 -49.654  1.00 22.65      A16S
ATOM  15988  C2* C   A 764     163.798  98.079 -52.090  1.00 31.27      A16S
ATOM  15989  O2* C   A 764     163.887  99.358 -52.682  1.00 31.27      A16S
ATOM  15990  C3* C   A 764     163.940  97.018 -53.161  1.00 31.27      A16S
ATOM  15991  O3* C   A 764     164.920  97.380 -54.103  1.00 31.27      A16S
ATOM  15992  P   G   A 765     166.423  96.866 -53.904  1.00 34.23      A16S
ATOM  15993  O1P G   A 765     167.253  97.662 -54.852  1.00 30.29      A16S
ATOM  15994  O2P G   A 765     166.414  95.390 -53.993  1.00 30.29      A16S
ATOM  15995  O5* G   A 765     166.797  97.289 -52.411  1.00 34.23      A16S
ATOM  15996  C5* G   A 765     167.256  98.625 -52.128  1.00 34.23      A16S
ATOM  15997  C4* G   A 765     167.485  98.808 -50.651  1.00 34.23      A16S
ATOM  15998  O4* G   A 765     166.278  98.458 -49.945  1.00 34.23      A16S
ATOM  15999  C1* G   A 765     166.604  97.869 -48.706  1.00 34.23      A16S
ATOM  16000  N9  G   A 765     166.119  96.503 -48.755  1.00 30.29      A16S
ATOM  16001  C4  G   A 765     165.984  95.640 -47.707  1.00 30.29      A16S
ATOM  16002  N3  G   A 765     166.256  95.913 -46.425  1.00 30.29      A16S
ATOM  16003  C2  G   A 765     166.037  94.874 -45.649  1.00 30.29      A16S
ATOM  16004  N2  G   A 765     166.228  94.983 -44.338  1.00 30.29      A16S
ATOM  16005  N1  G   A 765     165.604  93.657 -46.099  1.00 30.29      A16S
ATOM  16006  C6  G   A 765     165.313  93.360 -47.420  1.00 30.29      A16S
ATOM  16007  O6  G   A 765     164.915  92.230 -47.729  1.00 30.29      A16S
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ATOM  16008  C5  G   A 765     165.530  94.467 -48.256  1.00 30.29      A16S
ATOM  16009  N7  G   A 765     165.367  94.597 -49.624  1.00 30.29      A16S
ATOM  16010  C8  G   A 765     165.725  95.822 -49.874  1.00 30.29      A16S
ATOM  16011  C2* G   A 765     168.123  97.923 -48.557  1.00 34.23      A16S
ATOM  16012  O2* G   A 765     168.490  99.122 -47.894  1.00 34.23      A16S
ATOM  16013  C3* G   A 765     168.566  97.955 -50.009  1.00 34.23      A16S
ATOM  16014  O3* G   A 765     169.824  98.596 -50.104  1.00 34.23      A16S
ATOM  16015  P   A   A 766     170.952  98.009 -51.078  1.00 24.31      A16S
ATOM  16016  O1P A   A 766     170.557  98.457 -52.433  1.00 17.63      A16S
ATOM  16017  O2P A   A 766     171.160  96.563 -50.790  1.00 17.63      A16S
ATOM  16018  O5* A   A 766     172.251  98.806 -50.638  1.00 24.31      A16S
ATOM  16019  C5* A   A 766     172.246 100.241 -50.669  1.00 24.31      A16S
ATOM  16020  C4* A   A 766     173.470 100.805 -49.988  1.00 24.31      A16S
ATOM  16021  O4* A   A 766     173.260 101.008 -48.573  1.00 24.31      A16S
ATOM  16022  C1* A   A 766     174.512 100.992 -47.922  1.00 24.31      A16S
ATOM  16023  N9  A   A 766     174.515  99.983 -46.870  1.00 17.63      A16S
ATOM  16024  C4  A   A 766     175.521  99.866 -45.944  1.00 17.63      A16S
ATOM  16025  N3  A   A 766     176.619 100.636 -45.842  1.00 17.63      A16S
ATOM  16026  C2  A   A 766     177.385 100.219 -44.840  1.00 17.63      A16S
ATOM  16027  N1  A   A 766     177.194  99.196 -44.002  1.00 17.63      A16S
ATOM  16028  C6  A   A 766     176.077  98.444 -44.140  1.00 17.63      A16S
ATOM  16029  N6  A   A 766     175.894  97.416 -43.315  1.00 17.63      A16S
ATOM  16030  C5  A   A 766     175.183  98.787 -45.151  1.00 17.63      A16S
ATOM  16031  N7  A   A 766     173.978  98.240 -45.554  1.00 17.63      A16S
ATOM  16032  C8  A   A 766     173.622  98.984 -46.579  1.00 17.63      A16S
ATOM  16033  C2* A   A 766     175.576 100.665 -48.962  1.00 24.31      A16S
ATOM  16034  O2* A   A 766     176.121 101.875 -49.428  1.00 24.31      A16S
ATOM  16035  C3* A   A 766     174.753  99.999 -50.046  1.00 24.31      A16S
ATOM  16036  O3* A   A 766     175.404 100.057 -51.304  1.00 24.31      A16S
ATOM  16037  P   A   A 767     176.088  98.722 -51.893  1.00 45.97      A16S
ATOM  16038  O1P A   A 767     176.765  99.148 -53.136  1.00 37.33      A16S
ATOM  16039  O2P A   A 767     175.095  97.619 -51.951  1.00 37.33      A16S
ATOM  16040  O5* A   A 767     177.175  98.352 -50.785  1.00 45.97      A16S
ATOM  16041  C5* A   A 767     178.213  99.293 -50.460  1.00 45.97      A16S
ATOM  16042  C4* A   A 767     178.990  98.847 -49.248  1.00 45.97      A16S
ATOM  16043  O4* A   A 767     178.135  98.885 -48.087  1.00 45.97      A16S
ATOM  16044  C1* A   A 767     178.508  97.857 -47.194  1.00 45.97      A16S
ATOM  16045  N9  A   A 767     177.373  96.958 -47.063  1.00 37.33      A16S
ATOM  16046  C4  A   A 767     177.167  96.025 -46.079  1.00 37.33      A16S
ATOM  16047  N3  A   A 767     177.951  95.765 -45.025  1.00 37.33      A16S
ATOM  16048  C2  A   A 767     177.444  94.767 -44.305  1.00 37.33      A16S
ATOM  16049  N1  A   A 767     176.334  94.053 -44.509  1.00 37.33      A16S
ATOM  16050  C6  A   A 767     175.580  94.339 -45.582  1.00 37.33      A16S
ATOM  16051  N6  A   A 767     174.492  93.619 -45.801  1.00 37.33      A16S
ATOM  16052  C5  A   A 767     175.996  95.378 -46.413  1.00 37.33      A16S
ATOM  16053  N7  A   A 767     175.457  95.912 -47.572  1.00 37.33      A16S
ATOM  16054  C8  A   A 767     176.309  96.846 -47.914  1.00 37.33      A16S
ATOM  16055  C2* A   A 767     179.715  97.133 -47.793  1.00 45.97      A16S
ATOM  16056  O2* A   A 767     180.909  97.694 -47.293  1.00 45.97      A16S
ATOM  16057  C3* A   A 767     179.551  97.435 -49.271  1.00 45.97      A16S
ATOM  16058  O3* A   A 767     180.801  97.370 -49.949  1.00 45.97      A16S
ATOM  16059  P   A   A 768     181.168  96.067 -50.814  1.00 21.62      A16S
ATOM  16060  O1P A   A 768     182.463  96.361 -51.451  1.00 32.81      A16S
ATOM  16061  O2P A   A 768     179.999  95.688 -51.661  1.00 32.81      A16S
ATOM  16062  O5* A   A 768     181.406  94.945 -49.717  1.00 21.62      A16S
ATOM  16063  C5* A   A 768     182.533  95.032 -48.847  1.00 21.62      A16S
ATOM  16064  C4* A   A 768     182.370  94.099 -47.681  1.00 21.62      A16S
ATOM  16065  O4* A   A 768     181.152  94.426 -46.978  1.00 21.62      A16S
ATOM  16066  C1* A   A 768     180.554  93.247 -46.482  1.00 21.62      A16S
ATOM  16067  N9  A   A 768     179.275  93.105 -47.160  1.00 32.81      A16S
ATOM  16068  C4  A   A 768     178.260  92.235 -46.848  1.00 32.81      A16S
ATOM  16069  N3  A   A 768     178.237  91.331 -45.862  1.00 32.81      A16S
ATOM  16070  C2  A   A 768     177.093  90.667 -45.871  1.00 32.81      A16S
ATOM  16071  N1  A   A 768     176.055  90.785 -46.697  1.00 32.81      A16S
ATOM  16072  C6  A   A 768     176.124  91.692 -47.687  1.00 32.81      A16S
ATOM  16073  N6  A   A 768     175.110  91.788 -48.540  1.00 32.81      A16S
ATOM  16074  C5  A   A 768     177.266  92.472 -47.772  1.00 32.81      A16S
ATOM  16075  N7  A   A 768     177.642  93.475 -48.655  1.00 32.81      A16S
ATOM  16076  C8  A   A 768     178.840  93.816 -48.251  1.00 32.81      A16S
ATOM  16077  C2* A   A 768     181.487  92.084 -46.807  1.00 21.62      A16S
ATOM  16078  O2* A   A 768     182.332  91.817 -45.694  1.00 21.62      A16S
ATOM  16079  C3* A   A 768     182.222  92.630 -48.022  1.00 21.62      A16S
ATOM  16080  O3* A   A 768     183.480  92.017 -48.240  1.00 21.62      A16S
ATOM  16081  P   G   A 769     183.654  90.988 -49.456  1.00 22.30      A16S
ATOM  16082  O1P G   A 769     185.024  90.433 -49.278  1.00 23.48      A16S
ATOM  16083  O2P G   A 769     183.291  91.662 -50.745  1.00 23.48      A16S
ATOM  16084  O5* G   A 769     182.591  89.847 -49.119  1.00 22.30      A16S
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ATOM  16085  C5* G   A 769     182.736  89.087 -47.924  1.00 22.30      A16S
ATOM  16086  C4* G   A 769     181.484  88.313 -47.621  1.00 22.30      A16S
ATOM  16087  O4* G   A 769     180.344  89.209 -47.596  1.00 22.30      A16S
ATOM  16088  C1* G   A 769     179.166  88.482 -47.908  1.00 22.30      A16S
ATOM  16089  N9  G   A 769     178.467  89.127 -49.010  1.00 23.48      A16S
ATOM  16090  C4  G   A 769     177.314  88.682 -49.618  1.00 23.48      A16S
ATOM  16091  N3  G   A 769     176.652  87.546 -49.331  1.00 23.48      A16S
ATOM  16092  C2  G   A 769     175.537  87.424 -50.050  1.00 23.48      A16S
ATOM  16093  N2  G   A 769     174.707  86.377 -49.850  1.00 23.48      A16S
ATOM  16094  N1  G   A 769     175.148  88.321 -50.998  1.00 23.48      A16S
ATOM  16095  C6  G   A 769     175.830  89.479 -51.316  1.00 23.48      A16S
ATOM  16096  O6  G   A 769     175.403  90.205 -52.195  1.00 23.48      A16S
ATOM  16097  C5  G   A 769     176.989  89.645 -50.531  1.00 23.48      A16S
ATOM  16098  N7  G   A 769     177.925  90.668 -50.521  1.00 23.48      A16S
ATOM  16099  C8  G   A 769     178.792  90.307 -49.616  1.00 23.48      A16S
ATOM  16100  C2* G   A 769     179.577  87.057 -48.230  1.00 22.30      A16S
ATOM  16101  O2* G   A 769     179.376  86.323 -47.041  1.00 22.30      A16S
ATOM  16102  C3* G   A 769     181.043  87.248 -48.603  1.00 22.30      A16S
ATOM  16103  O3* G   A 769     181.793  86.061 -48.517  1.00 22.30      A16S
ATOM  16104  P   C   A 770     182.277  85.363 -49.879  1.00 33.86      A16S
ATOM  16105  O1P C   A 770     183.353  84.385 -49.535  1.00 28.47      A16S
ATOM  16106  O2P C   A 770     182.537  86.419 -50.899  1.00 28.47      A16S
ATOM  16107  O5* C   A 770     180.988  84.564 -50.348  1.00 33.86      A16S
ATOM  16108  C5* C   A 770     180.372  83.634 -49.463  1.00 33.86      A16S
ATOM  16109  C4* C   A 770     179.093  83.109 -50.051  1.00 33.86      A16S
ATOM  16110  O4* C   A 770     178.098  84.153 -50.086  1.00 33.86      A16S
ATOM  16111  C1* C   A 770     177.176  83.886 -51.118  1.00 33.86      A16S
ATOM  16112  N1  C   A 770     177.100  85.047 -52.002  1.00 28.47      A16S
ATOM  16113  C6  C   A 770     177.964  86.089 -51.880  1.00 28.47      A16S
ATOM  16114  C2  C   A 770     176.110  85.072 -52.969  1.00 28.47      A16S
ATOM  16115  O2  C   A 770     175.361  84.102 -53.063  1.00 28.47      A16S
ATOM  16116  N3  C   A 770     175.991  86.142 -53.776  1.00 28.47      A16S
ATOM  16117  C4  C   A 770     176.824  87.163 -53.639  1.00 28.47      A16S
ATOM  16118  N4  C   A 770     176.667  88.212 -54.437  1.00 28.47      A16S
ATOM  16119  C5  C   A 770     177.861  87.159 -52.671  1.00 28.47      A16S
ATOM  16120  C2* C   A 770     177.651  82.641 -51.849  1.00 33.86      A16S
ATOM  16121  O2* C   A 770     176.966  81.534 -51.308  1.00 33.86      A16S
ATOM  16122  C3* C   A 770     179.125  82.622 -51.483  1.00 33.86      A16S
ATOM  16123  O3* C   A 770     179.692  81.333 -51.633  1.00 33.86      A16S
ATOM  16124  P   G   A 771     180.436  80.972 -53.005  1.00 42.43      A16S
ATOM  16125  O1P G   A 771     181.129  79.703 -52.705  1.00 34.96      A16S
ATOM  16126  O2P G   A 771     181.207  82.148 -53.475  1.00 34.96      A16S
ATOM  16127  O5* G   A 771     179.247  80.758 -54.042  1.00 42.43      A16S
ATOM  16128  C5* G   A 771     178.294  79.706 -53.839  1.00 42.43      A16S
ATOM  16129  C4* G   A 771     177.287  79.662 -54.965  1.00 42.43      A16S
ATOM  16130  O4* G   A 771     176.387  80.789 -54.874  1.00 42.43      A16S
ATOM  16131  C1* G   A 771     175.933  81.139 -56.170  1.00 42.43      A16S
ATOM  16132  N9  G   A 771     176.224  82.548 -56.405  1.00 34.96      A16S
ATOM  16133  C4  G   A 771     175.661  83.329 -57.371  1.00 34.96      A16S
ATOM  16134  N3  G   A 771     174.743  82.930 -58.261  1.00 34.96      A16S
ATOM  16135  C2  G   A 771     174.399  83.907 -59.078  1.00 34.96      A16S
ATOM  16136  N2  G   A 771     173.499  83.687 -60.034  1.00 34.96      A16S
ATOM  16137  N1  G   A 771     174.912  85.173 -59.021  1.00 34.96      A16S
ATOM  16138  C6  G   A 771     175.857  85.607 -58.107  1.00 34.96      A16S
ATOM  16139  O6  G   A 771     176.258  86.775 -58.145  1.00 34.96      A16S
ATOM  16140  C5  G   A 771     176.237  84.570 -57.224  1.00 34.96      A16S
ATOM  16141  N7  G   A 771     177.143  84.572 -56.177  1.00 34.96      A16S
ATOM  16142  C8  G   A 771     177.103  83.349 -55.721  1.00 34.96      A16S
ATOM  16143  C2* G   A 771     176.617  80.216 -57.177  1.00 42.43      A16S
ATOM  16144  O2* G   A 771     175.735  79.173 -57.540  1.00 42.43      A16S
ATOM  16145  C3* G   A 771     177.825  79.737 -56.380  1.00 42.43      A16S
ATOM  16146  O3* G   A 771     178.337  78.499 -56.847  1.00 42.43      A16S
ATOM  16147  P   U   A 772     179.578  78.511 -57.863  1.00 42.02      A16S
ATOM  16148  O1P U   A 772     180.086  77.123 -57.931  1.00 39.51      A16S
ATOM  16149  O2P U   A 772     180.499  79.612 -57.488  1.00 39.51      A16S
ATOM  16150  O5* U   A 772     178.902  78.911 -59.244  1.00 42.02      A16S
ATOM  16151  C5* U   A 772     177.960  78.032 -59.867  1.00 42.02      A16S
ATOM  16152  C4* U   A 772     177.474  78.625 -61.157  1.00 42.02      A16S
ATOM  16153  O4* U   A 772     176.569  79.718 -60.876  1.00 42.02      A16S
ATOM  16154  C1* U   A 772     176.738  80.735 -61.841  1.00 42.02      A16S
ATOM  16155  N1  U   A 772     177.214  81.931 -61.142  1.00 39.51      A16S
ATOM  16156  C6  U   A 772     177.903  81.825 -59.967  1.00 39.51      A16S
ATOM  16157  C2  U   A 772     176.965  83.166 -61.716  1.00 39.51      A16S
ATOM  16158  O2  U   A 772     176.333  83.303 -62.744  1.00 39.51      A16S
ATOM  16159  N3  U   A 772     177.484  84.236 -61.037  1.00 39.51      A16S
ATOM  16160  C4  U   A 772     178.201  84.195 -59.866  1.00 39.51      A16S
ATOM  16161  O4  U   A 772     178.644  85.240 -59.388  1.00 39.51      A16S
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ATOM  16162  C5  U   A 772     178.391  82.883 -59.326  1.00 39.51      A16S
ATOM  16163  C2* U   A 772     177.783  80.255 -62.849  1.00 42.02      A16S
ATOM  16164  O2* U   A 772     177.170  79.691 -63.993  1.00 42.02      A16S
ATOM  16165  C3* U   A 772     178.558  79.240 -62.023  1.00 42.02      A16S
ATOM  16166  O3* U   A 772     179.273  78.292 -62.809  1.00 42.02      A16S
ATOM  16167  P   G   A 773     180.794  78.611 -63.228  1.00 47.66      A16S
ATOM  16168  O1P G   A 773     181.278  77.396 -63.911  1.00 52.54      A16S
ATOM  16169  O2P G   A 773     181.534  79.121 -62.046  1.00 52.54      A16S
ATOM  16170  O5* G   A 773     180.664  79.805 -64.279  1.00 47.66      A16S
ATOM  16171  C5* G   A 773     179.818  79.664 -65.421  1.00 47.66      A16S
ATOM  16172  C4* G   A 773     179.597  80.988 -66.110  1.00 47.66      A16S
ATOM  16173  O4* G   A 773     178.775  81.871 -65.304  1.00 47.66      A16S
ATOM  16174  C1* G   A 773     179.018  83.219 -65.698  1.00 47.66      A16S
ATOM  16175  N9  G   A 773     179.391  84.031 -64.537  1.00 52.54      A16S
ATOM  16176  C4  G   A 773     179.358  85.405 -64.484  1.00 52.54      A16S
ATOM  16177  N3  G   A 773     178.941  86.220 -65.468  1.00 52.54      A16S
ATOM  16178  C2  G   A 773     179.047  87.493 -65.137  1.00 52.54      A16S
ATOM  16179  N2  G   A 773     178.667  88.435 -66.009  1.00 52.54      A16S
ATOM  16180  N1  G   A 773     179.528  87.936 -63.935  1.00 52.54      A16S
ATOM  16181  C6  G   A 773     179.965  87.119 -62.904  1.00 52.54      A16S
ATOM  16182  O6  G   A 773     180.385  87.627 -61.866  1.00 52.54      A16S
ATOM  16183  C5  G   A 773     179.853  85.740 -63.244  1.00 52.54      A16S
ATOM  16184  N7  G   A 773     180.173  84.600 -62.518  1.00 52.54      A16S
ATOM  16185  C8  G   A 773     179.876  83.611 -63.320  1.00 52.54      A16S
ATOM  16186  C2* G   A 773     180.158  83.197 -66.721  1.00 47.66      A16S
ATOM  16187  O2* G   A 773     179.679  83.249 -68.055  1.00 47.66      A16S
ATOM  16188  C3* G   A 773     180.801  81.850 -66.445  1.00 47.66      A16S
ATOM  16189  O3* G   A 773     181.515  81.455 -67.597  1.00 47.66      A16S
ATOM  16190  P   G   A 774     183.043  81.934 -67.775  1.00 66.17      A16S
ATOM  16191  O1P G   A 774     183.481  81.351 -69.080  1.00 61.37      A16S
ATOM  16192  O2P G   A 774     183.791  81.591 -66.528  1.00 61.37      A16S
ATOM  16193  O5* G   A 774     182.961  83.528 -67.901  1.00 66.17      A16S
ATOM  16194  C5* G   A 774     182.459  84.129 -69.104  1.00 66.17      A16S
ATOM  16195  C4* G   A 774     182.414  85.638 -68.999  1.00 66.17      A16S
ATOM  16196  O4* G   A 774     181.561  86.046 -67.900  1.00 66.17      A16S
ATOM  16197  C1* G   A 774     181.945  87.337 -67.460  1.00 66.17      A16S
ATOM  16198  N9  G   A 774     182.302  87.298 -66.045  1.00 61.37      A16S
ATOM  16199  C4  G   A 774     182.445  88.398 -65.231  1.00 61.37      A16S
ATOM  16200  N3  G   A 774     182.270  89.684 -65.603  1.00 61.37      A16S
ATOM  16201  C2  G   A 774     182.468  90.517 -64.602  1.00 61.37      A16S
ATOM  16202  N2  G   A 774     182.334  91.822 -64.802  1.00 61.37      A16S
ATOM  16203  N1  G   A 774     182.811  90.128 -63.331  1.00 61.37      A16S
ATOM  16204  C6  G   A 774     182.997  88.812 -62.918  1.00 61.37      A16S
ATOM  16205  O6  G   A 774     183.293  88.570 -61.736  1.00 61.37      A16S
ATOM  16206  C5  G   A 774     182.793  87.897 -63.993  1.00 61.37      A16S
ATOM  16207  N7  G   A 774     182.871  86.509 -64.028  1.00 61.37      A16S
ATOM  16208  C8  G   A 774     182.572  86.199 -65.262  1.00 61.37      A16S
ATOM  16209  C2* G   A 774     183.150  87.759 -68.286  1.00 66.17      A16S
ATOM  16210  O2* G   A 774     182.693  88.538 -69.368  1.00 66.17      A16S
ATOM  16211  C3* G   A 774     183.693  86.417 -68.751  1.00 66.17      A16S
ATOM  16212  O3* G   A 774     184.483  86.615 -69.907  1.00 66.17      A16S
ATOM  16213  P   G   A 775     186.039  87.000 -69.742  1.00 44.64      A16S
ATOM  16214  O1P G   A 775     186.595  87.181 -71.108  1.00 52.87      A16S
ATOM  16215  O2P G   A 775     186.680  86.036 -68.811  1.00 52.87      A16S
ATOM  16216  O5* G   A 775     186.038  88.407 -69.001  1.00 44.64      A16S
ATOM  16217  C5* G   A 775     185.510  89.576 -69.633  1.00 44.64      A16S
ATOM  16218  C4* G   A 775     185.641  90.766 -68.714  1.00 44.64      A16S
ATOM  16219  O4* G   A 775     184.868  90.552 -67.504  1.00 44.64      A16S
ATOM  16220  C1* G   A 775     185.513  91.173 -66.402  1.00 44.64      A16S
ATOM  16221  N9  G   A 775     185.829  90.161 -65.398  1.00 52.87      A16S
ATOM  16222  C4  G   A 775     186.222  90.398 -64.109  1.00 52.87      A16S
ATOM  16223  N3  G   A 775     186.353  91.607 -63.539  1.00 52.87      A16S
ATOM  16224  C2  G   A 775     186.735  91.516 -62.282  1.00 52.87      A16S
ATOM  16225  N2  G   A 775     186.873  92.631 -61.546  1.00 52.87      A16S
ATOM  16226  N1  G   A 775     187.000  90.327 -61.648  1.00 52.87      A16S
ATOM  16227  C6  G   A 775     186.879  89.069 -62.229  1.00 52.87      A16S
ATOM  16228  O6  G   A 775     187.154  88.053 -61.576  1.00 52.87      A16S
ATOM  16229  C5  G   A 775     186.440  89.158 -63.558  1.00 52.87      A16S
ATOM  16230  N7  G   A 775     186.167  88.158 -64.472  1.00 52.87      A16S
ATOM  16231  C8  G   A 775     185.808  88.797 -65.549  1.00 52.87      A16S
ATOM  16232  C2* G   A 775     186.762  91.860 -66.936  1.00 44.64      A16S
ATOM  16233  O2* G   A 775     186.433  93.208 -67.203  1.00 44.64      A16S
ATOM  16234  C3* G   A 775     187.035  91.049 -68.197  1.00 44.64      A16S
ATOM  16235  O3* G   A 775     187.820  91.736 -69.149  1.00 44.64      A16S
ATOM  16236  P   G   A 776     189.414  91.588 -69.099  1.00 41.23      A16S
ATOM  16237  O1P G   A 776     189.759  90.135 -69.095  1.00 39.27      A16S
ATOM  16238  O2P G   A 776     189.957  92.487 -70.141  1.00 39.27      A16S
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ATOM  16239  O5* G   A 776     189.816  92.198 -67.688  1.00 41.23      A16S
ATOM  16240  C5* G   A 776     189.448  93.546 -67.362  1.00 41.23      A16S
ATOM  16241  C4* G   A 776     189.945  93.915 -65.994  1.00 41.23      A16S
ATOM  16242  O4* G   A 776     189.198  93.229 -64.972  1.00 41.23      A16S
ATOM  16243  C1* G   A 776     190.049  92.909 -63.892  1.00 41.23      A16S
ATOM  16244  N9  G   A 776     190.062  91.459 -63.786  1.00 39.27      A16S
ATOM  16245  C4  G   A 776     190.168  90.701 -62.650  1.00 39.27      A16S
ATOM  16246  N3  G   A 776     190.292  91.163 -61.394  1.00 39.27      A16S
ATOM  16247  C2  G   A 776     190.370  90.171 -60.518  1.00 39.27      A16S
ATOM  16248  N2  G   A 776     190.498  90.424 -59.207  1.00 39.27      A16S
ATOM  16249  N1  G   A 776     190.330  88.850 -60.854  1.00 39.27      A16S
ATOM  16250  C6  G   A 776     190.199  88.360 -62.141  1.00 39.27      A16S
ATOM  16251  O6  G   A 776     190.162  87.139 -62.339  1.00 39.27      A16S
ATOM  16252  C5  G   A 776     190.117  89.395 -63.080  1.00 39.27      A16S
ATOM  16253  N7  G   A 776     189.986  89.333 -64.454  1.00 39.27      A16S
ATOM  16254  C8  G   A 776     189.960  90.578 -64.830  1.00 39.27      A16S
ATOM  16255  C2* G   A 776     191.423  93.501 -64.203  1.00 41.23      A16S
ATOM  16256  O2* G   A 776     191.517  94.776 -63.589  1.00 41.23      A16S
ATOM  16257  C3* G   A 776     191.388  93.564 -65.725  1.00 41.23      A16S
ATOM  16258  O3* G   A 776     192.189  94.576 -66.303  1.00 41.23      A16S
ATOM  16259  P   A   A 777     193.774  94.396 -66.413  1.00 26.38      A16S
ATOM  16260  O1P A   A 777     194.174  93.084 -65.837  1.00 45.30      A16S
ATOM  16261  O2P A   A 777     194.138  94.720 -67.828  1.00 45.30      A16S
ATOM  16262  O5* A   A 777     194.260  95.557 -65.427  1.00 26.38      A16S
ATOM  16263  C5* A   A 777     195.337  96.434 -65.794  1.00 26.38      A16S
ATOM  16264  C4* A   A 777     194.980  97.894 -65.561  1.00 26.38      A16S
ATOM  16265  O4* A   A 777     193.576  98.143 -65.844  1.00 26.38      A16S
ATOM  16266  C1* A   A 777     193.145  99.270 -65.104  1.00 26.38      A16S
ATOM  16267  N9  A   A 777     192.087  98.870 -64.174  1.00 45.30      A16S
ATOM  16268  C4  A   A 777     191.485  99.704 -63.258  1.00 45.30      A16S
ATOM  16269  N3  A   A 777     191.722 101.012 -63.070  1.00 45.30      A16S
ATOM  16270  C2  A   A 777     190.990 101.483 -62.063  1.00 45.30      A16S
ATOM  16271  N1  A   A 777     190.113 100.848 -61.282  1.00 45.30      A16S
ATOM  16272  C6  A   A 777     189.897  99.539 -61.495  1.00 45.30      A16S
ATOM  16273  N6  A   A 777     189.030  98.911 -60.706  1.00 45.30      A16S
ATOM  16274  C5  A   A 777     190.613  98.914 -62.540  1.00 45.30      A16S
ATOM  16275  N7  A   A 777     190.640  97.606 -63.008  1.00 45.30      A16S
ATOM  16276  C8  A   A 777     191.521  97.637 -63.981  1.00 45.30      A16S
ATOM  16277  C2* A   A 777     194.357  99.771 -64.321  1.00 26.38      A16S
ATOM  16278  O2* A   A 777     195.024 100.706 -65.130  1.00 26.38      A16S
ATOM  16279  C3* A   A 777     195.191  98.512 -64.187  1.00 26.38      A16S
ATOM  16280  O3* A   A 777     196.553  98.874 -63.947  1.00 26.38      A16S
ATOM  16281  P   G   A 778     197.277  98.446 -62.559  1.00 33.05      A16S
ATOM  16282  O1P G   A 778     198.740  98.621 -62.750  1.00 43.94      A16S
ATOM  16283  O2P G   A 778     196.757  97.137 -62.076  1.00 43.94      A16S
ATOM  16284  O5* G   A 778     196.807  99.528 -61.497  1.00 33.05      A16S
ATOM  16285  C5* G   A 778     196.881 100.932 -61.767  1.00 33.05      A16S
ATOM  16286  C4* G   A 778     195.923 101.660 -60.858  1.00 33.05      A16S
ATOM  16287  O4* G   A 778     194.561 101.420 -61.304  1.00 33.05      A16S
ATOM  16288  C1* G   A 778     193.715 101.242 -60.185  1.00 33.05      A16S
ATOM  16289  N9  G   A 778     193.207  99.870 -60.204  1.00 43.94      A16S
ATOM  16290  C4  G   A 778     192.184  99.367 -59.438  1.00 43.94      A16S
ATOM  16291  N3  G   A 778     191.471 100.049 -58.530  1.00 43.94      A16S
ATOM  16292  C2  G   A 778     190.549  99.305 -57.962  1.00 43.94      A16S
ATOM  16293  N2  G   A 778     189.755  99.834 -57.030  1.00 43.94      A16S
ATOM  16294  N1  G   A 778     190.330  97.993 -58.257  1.00 43.94      A16S
ATOM  16295  C6  G   A 778     191.036  97.261 -59.188  1.00 43.94      A16S
ATOM  16296  O6  G   A 778     190.735  96.075 -59.385  1.00 43.94      A16S
ATOM  16297  C5  G   A 778     192.055  98.054 -59.812  1.00 43.94      A16S
ATOM  16298  N7  G   A 778     192.989  97.728 -60.789  1.00 43.94      A16S
ATOM  16299  C8  G   A 778     193.648  98.834 -60.986  1.00 43.94      A16S
ATOM  16300  C2* G   A 778     194.546 101.535 -58.940  1.00 33.05      A16S
ATOM  16301  O2* G   A 778     194.504 102.917 -58.649  1.00 33.05      A16S
ATOM  16302  C3* G   A 778     195.931 101.172 -59.417  1.00 33.05      A16S
ATOM  16303  O3* G   A 778     196.905 101.789 -58.609  1.00 33.05      A16S
ATOM  16304  P   C   A 779     197.396 101.032 -57.286  1.00 35.57      A16S
ATOM  16305  O1P C   A 779     198.370 101.909 -56.595  1.00 40.58      A16S
ATOM  16306  O2P C   A 779     197.775  99.632 -57.621  1.00 40.58      A16S
ATOM  16307  O5* C   A 779     196.065 100.905 -56.424  1.00 35.57      A16S
ATOM  16308  C5* C   A 779     195.397 102.053 -55.839  1.00 35.57      A16S
ATOM  16309  C4* C   A 779     194.254 101.575 -54.978  1.00 35.57      A16S
ATOM  16310  O4* C   A 779     193.336 100.837 -55.821  1.00 35.57      A16S
ATOM  16311  C1* C   A 779     192.821  99.735 -55.109  1.00 35.57      A16S
ATOM  16312  N1  C   A 779     193.002  98.514 -55.902  1.00 40.58      A16S
ATOM  16313  C6  C   A 779     193.910  98.443 -56.918  1.00 40.58      A16S
ATOM  16314  C2  C   A 779     192.220  97.410 -55.588  1.00 40.58      A16S
ATOM  16315  O2  C   A 779     191.389  97.512 -54.671  1.00 40.58      A16S
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ATOM  16316  N3  C   A 779     192.374  96.263 -56.287  1.00 40.58      A16S
ATOM  16317  C4  C   A 779     193.255  96.205 -57.276  1.00 40.58      A16S
ATOM  16318  N4  C   A 779     193.349  95.069 -57.950  1.00 40.58      A16S
ATOM  16319  C5  C   A 779     194.068  97.316 -57.623  1.00 40.58      A16S
ATOM  16320  C2* C   A 779     193.466  99.690 -53.725  1.00 35.57      A16S
ATOM  16321  O2* C   A 779     192.545 100.156 -52.765  1.00 35.57      A16S
ATOM  16322  C3* C   A 779     194.684 100.586 -53.905  1.00 35.57      A16S
ATOM  16323  O3* C   A 779     195.025 101.274 -52.709  1.00 35.57      A16S
ATOM  16324  P   A   A 780     196.019 100.585 -51.648  1.00 26.24      A16S
ATOM  16325  O1P A   A 780     196.095 101.450 -50.436  1.00 61.03      A16S
ATOM  16326  O2P A   A 780     197.265 100.259 -52.393  1.00 61.03      A16S
ATOM  16327  O5* A   A 780     195.304  99.207 -51.264  1.00 26.24      A16S
ATOM  16328  C5* A   A 780     194.193  99.186 -50.364  1.00 26.24      A16S
ATOM  16329  C4* A   A 780     193.602  97.800 -50.268  1.00 26.24      A16S
ATOM  16330  O4* A   A 780     193.208  97.346 -51.573  1.00 26.24      A16S
ATOM  16331  C1* A   A 780     193.343  95.937 -51.645  1.00 26.24      A16S
ATOM  16332  N9  A   A 780     194.204  95.605 -52.778  1.00 61.03      A16S
ATOM  16333  C4  A   A 780     194.032  94.540 -53.620  1.00 61.03      A16S
ATOM  16334  N3  A   A 780     193.063  93.620 -53.569  1.00 61.03      A16S
ATOM  16335  C2  A   A 780     193.213  92.740 -54.537  1.00 61.03      A16S
ATOM  16336  N1  A   A 780     194.154  92.672 -55.476  1.00 61.03      A16S
ATOM  16337  C6  A   A 780     195.119  93.608 -55.492  1.00 61.03      A16S
ATOM  16338  N6  A   A 780     196.075  93.528 -56.417  1.00 61.03      A16S
ATOM  16339  C5  A   A 780     195.064  94.606 -54.528  1.00 61.03      A16S
ATOM  16340  N7  A   A 780     195.876  95.700 -54.273  1.00 61.03      A16S
ATOM  16341  C8  A   A 780     195.325  96.259 -53.226  1.00 61.03      A16S
ATOM  16342  C2* A   A 780     193.882  95.434 -50.311  1.00 26.24      A16S
ATOM  16343  O2* A   A 780     192.798  94.929 -49.576  1.00 26.24      A16S
ATOM  16344  C3* A   A 780     194.488  96.701 -49.718  1.00 26.24      A16S
ATOM  16345  O3* A   A 780     194.380  96.710 -48.309  1.00 26.24      A16S
ATOM  16346  P   A   A 781     195.172  95.625 -47.439  1.00 22.47      A16S
ATOM  16347  O1P A   A 781     195.246  96.123 -46.033  1.00 47.03      A16S
ATOM  16348  O2P A   A 781     196.423  95.269 -48.153  1.00 47.03      A16S
ATOM  16349  O5* A   A 781     194.226  94.357 -47.464  1.00 22.47      A16S
ATOM  16350  C5* A   A 781     194.384  93.340 -46.496  1.00 22.47      A16S
ATOM  16351  C4* A   A 781     193.079  93.079 -45.828  1.00 22.47      A16S
ATOM  16352  O4* A   A 781     192.079  92.825 -46.837  1.00 22.47      A16S
ATOM  16353  C1* A   A 781     191.233  91.774 -46.411  1.00 22.47      A16S
ATOM  16354  N9  A   A 781     191.408  90.624 -47.301  1.00 47.03      A16S
ATOM  16355  C4  A   A 781     190.730  89.440 -47.170  1.00 47.03      A16S
ATOM  16356  N3  A   A 781     189.822  89.129 -46.232  1.00 47.03      A16S
ATOM  16357  C2  A   A 781     189.365  87.903 -46.424  1.00 47.03      A16S
ATOM  16358  N1  A   A 781     189.683  87.017 -47.373  1.00 47.03      A16S
ATOM  16359  C6  A   A 781     190.598  87.368 -48.300  1.00 47.03      A16S
ATOM  16360  N6  A   A 781     190.905  86.491 -49.255  1.00 47.03      A16S
ATOM  16361  C5  A   A 781     191.165  88.639 -48.205  1.00 47.03      A16S
ATOM  16362  N7  A   A 781     192.111  89.298 -48.972  1.00 47.03      A16S
ATOM  16363  C8  A   A 781     192.222  90.468 -48.395  1.00 47.03      A16S
ATOM  16364  C2* A   A 781     191.627  91.419 -44.984  1.00 22.47      A16S
ATOM  16365  O2* A   A 781     190.794  92.175 -44.132  1.00 22.47      A16S
ATOM  16366  C3* A   A 781     193.087  91.837 -44.972  1.00 22.47      A16S
ATOM  16367  O3* A   A 781     193.605  92.136 -43.700  1.00 22.47      A16S
ATOM  16368  P   A   A 782     195.109  91.738 -43.379  1.00 33.17      A16S
ATOM  16369  O1P A   A 782     195.322  91.769 -41.923  1.00 29.19      A16S
ATOM  16370  O2P A   A 782     195.942  92.600 -44.255  1.00 29.19      A16S
ATOM  16371  O5* A   A 782     195.156  90.213 -43.827  1.00 33.17      A16S
ATOM  16372  C5* A   A 782     194.220  89.294 -43.262  1.00 33.17      A16S
ATOM  16373  C4* A   A 782     194.109  88.039 -44.093  1.00 33.17      A16S
ATOM  16374  O4* A   A 782     193.631  88.339 -45.425  1.00 33.17      A16S
ATOM  16375  C1* A   A 782     194.135  87.377 -46.334  1.00 33.17      A16S
ATOM  16376  N9  A   A 782     194.913  88.066 -47.353  1.00 29.19      A16S
ATOM  16377  C4  A   A 782     195.390  87.521 -48.519  1.00 29.19      A16S
ATOM  16378  N3  A   A 782     195.274  86.251 -48.935  1.00 29.19      A16S
ATOM  16379  C2  A   A 782     195.835  86.104 -50.127  1.00 29.19      A16S
ATOM  16380  N1  A   A 782     196.444  87.011 -50.894  1.00 29.19      A16S
ATOM  16381  C6  A   A 782     196.534  88.279 -50.443  1.00 29.19      A16S
ATOM  16382  N6  A   A 782     197.109  89.204 -51.216  1.00 29.19      A16S
ATOM  16383  C5  A   A 782     196.001  88.558 -49.192  1.00 29.19      A16S
ATOM  16384  N7  A   A 782     195.949  89.723 -48.450  1.00 29.19      A16S
ATOM  16385  C8  A   A 782     195.298  89.376 -47.368  1.00 29.19      A16S
ATOM  16386  C2* A   A 782     194.992  86.406 -45.541  1.00 33.17      A16S
ATOM  16387  O2* A   A 782     194.158  85.333 -45.186  1.00 33.17      A16S
ATOM  16388  C3* A   A 782     195.374  87.253 -44.340  1.00 33.17      A16S
ATOM  16389  O3* A   A 782     195.716  86.476 -43.217  1.00 33.17      A16S
ATOM  16390  P   C   A 783     197.193  86.607 -42.609  1.00 41.28      A16S
ATOM  16391  O1P C   A 783     197.316  85.525 -41.584  1.00 30.69      A16S
ATOM  16392  O2P C   A 783     197.434  88.032 -42.231  1.00 30.69      A16S
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ATOM  16393  O5*  C   A 783     198.125  86.288 -43.853  1.00 41.28      A16S
ATOM  16394  C5*  C   A 783     197.965  85.053 -44.548  1.00 41.28      A16S
ATOM  16395  C4*  C   A 783     198.631  85.109 -45.886  1.00 41.28      A16S
ATOM  16396  O4*  C   A 783     198.010  86.120 -46.702  1.00 41.28      A16S
ATOM  16397  C1*  C   A 783     198.967  86.663 -47.580  1.00 41.28      A16S
ATOM  16398  N1   C   A 783     199.005  88.115 -47.398  1.00 30.69      A16S
ATOM  16399  C6   C   A 783     198.480  88.708 -46.289  1.00 30.69      A16S
ATOM  16400  C2   C   A 783     199.572  88.884 -48.396  1.00 30.69      A16S
ATOM  16401  O2   C   A 783     200.072  88.307 -49.369  1.00 30.69      A16S
ATOM  16402  N3   C   A 783     199.573  90.227 -48.284  1.00 30.69      A16S
ATOM  16403  C4   C   A 783     199.040  90.796 -47.219  1.00 30.69      A16S
ATOM  16404  N4   C   A 783     199.039  92.113 -47.159  1.00 30.69      A16S
ATOM  16405  C5   C   A 783     198.477  90.036 -46.164  1.00 30.69      A16S
ATOM  16406  C2*  C   A 783     200.300  85.980 -47.307  1.00 41.28      A16S
ATOM  16407  O2*  C   A 783     200.420  84.930 -48.245  1.00 41.28      A16S
ATOM  16408  C3*  C   A 783     200.094  85.481 -45.885  1.00 41.28      A16S
ATOM  16409  O3*  C   A 783     200.868  84.341 -45.578  1.00 41.28      A16S
ATOM  16410  P    C   A 784     202.268  84.519 -44.822  1.00 31.54      A16S
ATOM  16411  O1P  C   A 784     202.710  83.155 -44.455  1.00 50.19      A16S
ATOM  16412  O2P  C   A 784     202.188  85.572 -43.781  1.00 50.19      A16S
ATOM  16413  O5*  C   A 784     203.209  85.070 -45.965  1.00 31.54      A16S
ATOM  16414  C5*  C   A 784     203.393  84.312 -47.141  1.00 31.54      A16S
ATOM  16415  C4*  C   A 784     204.242  85.072 -48.096  1.00 31.54      A16S
ATOM  16416  O4*  C   A 784     203.493  86.159 -48.687  1.00 31.54      A16S
ATOM  16417  C1*  C   A 784     204.369  87.232 -48.965  1.00 31.54      A16S
ATOM  16418  N1   C   A 784     203.832  88.469 -48.366  1.00 50.19      A16S
ATOM  16419  C6   C   A 784     202.927  88.427 -47.346  1.00 50.19      A16S
ATOM  16420  C2   C   A 784     204.270  89.701 -48.866  1.00 50.19      A16S
ATOM  16421  O2   C   A 784     205.091  89.714 -49.781  1.00 50.19      A16S
ATOM  16422  N3   C   A 784     203.792  90.840 -48.338  1.00 50.19      A16S
ATOM  16423  C4   C   A 784     202.919  90.788 -47.337  1.00 50.19      A16S
ATOM  16424  N4   C   A 784     202.494  91.937 -46.823  1.00 50.19      A16S
ATOM  16425  C5   C   A 784     202.448  89.552 -46.808  1.00 50.19      A16S
ATOM  16426  C2*  C   A 784     205.760  86.832 -48.468  1.00 31.54      A16S
ATOM  16427  O2*  C   A 784     206.467  86.265 -49.546  1.00 31.54      A16S
ATOM  16428  C3*  C   A 784     205.434  85.744 -47.459  1.00 31.54      A16S
ATOM  16429  O3*  C   A 784     206.493  84.818 -47.289  1.00 31.54      A16S
ATOM  16430  P    G   A 785     207.756  85.223 -46.385  1.00 41.94      A16S
ATOM  16431  O1P  G   A 785     208.828  84.262 -46.746  1.00 39.33      A16S
ATOM  16432  O2P  G   A 785     207.367  85.388 -44.955  1.00 39.33      A16S
ATOM  16433  O5*  G   A 785     208.144  86.644 -46.978  1.00 41.94      A16S
ATOM  16434  C5*  G   A 785     208.898  87.579 -46.216  1.00 41.94      A16S
ATOM  16435  C4*  G   A 785     209.359  88.689 -47.111  1.00 41.94      A16S
ATOM  16436  O4*  G   A 785     208.202  89.273 -47.753  1.00 41.94      A16S
ATOM  16437  C1*  G   A 785     208.409  90.665 -47.931  1.00 41.94      A16S
ATOM  16438  N9   G   A 785     207.395  91.392 -47.171  1.00 39.33      A16S
ATOM  16439  C4   G   A 785     207.296  92.753 -47.083  1.00 39.33      A16S
ATOM  16440  N3   G   A 785     208.091  93.642 -47.714  1.00 39.33      A16S
ATOM  16441  C2   G   A 785     207.794  94.880 -47.391  1.00 39.33      A16S
ATOM  16442  N2   G   A 785     208.512  95.880 -47.896  1.00 39.33      A16S
ATOM  16443  N1   G   A 785     206.785  95.220 -46.535  1.00 39.33      A16S
ATOM  16444  C6   G   A 785     205.962  94.315 -45.870  1.00 39.33      A16S
ATOM  16445  O6   G   A 785     205.106  94.723 -45.086  1.00 39.33      A16S
ATOM  16446  C5   G   A 785     206.272  92.989 -46.204  1.00 39.33      A16S
ATOM  16447  N7   G   A 785     205.708  91.801 -45.773  1.00 39.33      A16S
ATOM  16448  C8   G   A 785     206.399  90.879 -46.381  1.00 39.33      A16S
ATOM  16449  C2*  G   A 785     209.808  90.990 -47.404  1.00 41.94      A16S
ATOM  16450  O2*  G   A 785     210.743  90.980 -48.456  1.00 41.94      A16S
ATOM  16451  C3*  G   A 785     210.024  89.859 -46.418  1.00 41.94      A16S
ATOM  16452  O3*  G   A 785     211.382  89.629 -46.143  1.00 41.94      A16S
ATOM  16453  P    G   A 786     212.016  90.232 -44.802  1.00 27.13      A16S
ATOM  16454  O1P  G   A 786     213.445  89.824 -44.793  1.00 36.92      A16S
ATOM  16455  O2P  G   A 786     211.143  89.861 -43.652  1.00 36.92      A16S
ATOM  16456  O5*  G   A 786     211.988  91.805 -45.058  1.00 27.13      A16S
ATOM  16457  C5*  G   A 786     212.844  92.354 -46.051  1.00 27.13      A16S
ATOM  16458  C4*  G   A 786     212.765  93.850 -46.074  1.00 27.13      A16S
ATOM  16459  O4*  G   A 786     211.438  94.264 -46.456  1.00 27.13      A16S
ATOM  16460  C1*  G   A 786     211.157  95.523 -45.879  1.00 27.13      A16S
ATOM  16461  N9   G   A 786     210.008  95.382 -44.987  1.00 36.92      A16S
ATOM  16462  C4   G   A 786     209.327  96.408 -44.390  1.00 36.92      A16S
ATOM  16463  N3   G   A 786     209.615  97.713 -44.512  1.00 36.92      A16S
ATOM  16464  C2   G   A 786     208.782  98.464 -43.835  1.00 36.92      A16S
ATOM  16465  N2   G   A 786     208.944  99.795 -43.850  1.00 36.92      A16S
ATOM  16466  N1   G   A 786     207.736  97.968 -43.100  1.00 36.92      A16S
ATOM  16467  C6   G   A 786     207.418  96.628 -42.972  1.00 36.92      A16S
ATOM  16468  O6   G   A 786     206.442  96.292 -42.310  1.00 36.92      A16S
ATOM  16469  C5   G   A 786     208.317  95.815 -43.678  1.00 36.92      A16S
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ATOM  16470  N7  G   A 786     208.371  94.438 -43.803  1.00 36.92      A16S
ATOM  16471  C8  G   A 786     209.392  94.225 -44.584  1.00 36.92      A16S
ATOM  16472  C2* G   A 786     212.403  95.957 -45.110  1.00 27.13      A16S
ATOM  16473  O2* G   A 786     213.242  96.719 -45.957  1.00 27.13      A16S
ATOM  16474  C3* G   A 786     213.045  94.620 -44.798  1.00 27.13      A16S
ATOM  16475  O3* G   A 786     214.427  94.818 -44.569  1.00 27.13      A16S
ATOM  16476  P   A   A 787     214.980  94.918 -43.060  1.00 45.35      A16S
ATOM  16477  O1P A   A 787     216.425  95.239 -43.251  1.00 35.87      A16S
ATOM  16478  O2P A   A 787     214.597  93.700 -42.294  1.00 35.87      A16S
ATOM  16479  O5* A   A 787     214.201  96.157 -42.408  1.00 45.35      A16S
ATOM  16480  C5* A   A 787     214.629  97.513 -42.664  1.00 45.35      A16S
ATOM  16481  C4* A   A 787     213.631  98.529 -42.129  1.00 45.35      A16S
ATOM  16482  O4* A   A 787     212.291  98.153 -42.528  1.00 45.35      A16S
ATOM  16483  C1* A   A 787     211.357  98.706 -41.626  1.00 45.35      A16S
ATOM  16484  N9  A   A 787     210.505  97.647 -41.095  1.00 35.87      A16S
ATOM  16485  C4  A   A 787     209.335  97.860 -40.410  1.00 35.87      A16S
ATOM  16486  N3  A   A 787     208.763  99.042 -40.128  1.00 35.87      A16S
ATOM  16487  C2  A   A 787     207.642  98.862 -39.444  1.00 35.87      A16S
ATOM  16488  N1  A   A 787     207.070  97.728 -39.043  1.00 35.87      A16S
ATOM  16489  C6  A   A 787     207.666  96.560 -39.350  1.00 35.87      A16S
ATOM  16490  N6  A   A 787     207.081  95.424 -38.968  1.00 35.87      A16S
ATOM  16491  C5  A   A 787     208.868  96.611 -40.065  1.00 35.87      A16S
ATOM  16492  N7  A   A 787     209.726  95.623 -40.526  1.00 35.87      A16S
ATOM  16493  C8  A   A 787     210.674  96.288 -41.136  1.00 35.87      A16S
ATOM  16494  C2* A   A 787     212.133  99.414 -40.522  1.00 45.35      A16S
ATOM  16495  O2* A   A 787     212.098 100.789 -40.825  1.00 45.35      A16S
ATOM  16496  C3* A   A 787     213.514  98.769 -40.631  1.00 45.35      A16S
ATOM  16497  O3* A   A 787     214.522  99.658 -40.147  1.00 45.35      A16S
ATOM  16498  P   U   A 788     215.089  99.490 -38.646  1.00 36.20      A16S
ATOM  16499  O1P U   A 788     216.222 100.428 -38.434  1.00 49.24      A16S
ATOM  16500  O2P U   A 788     215.263  98.039 -38.373  1.00 49.24      A16S
ATOM  16501  O5* U   A 788     213.911  99.993 -37.715  1.00 36.20      A16S
ATOM  16502  C5* U   A 788     213.461 101.348 -37.755  1.00 36.20      A16S
ATOM  16503  C4* U   A 788     212.201 101.476 -36.946  1.00 36.20      A16S
ATOM  16504  O4* U   A 788     211.144 100.709 -37.580  1.00 36.20      A16S
ATOM  16505  C1* U   A 788     210.275 100.192 -36.591  1.00 36.20      A16S
ATOM  16506  N1  U   A 788     210.175  98.733 -36.738  1.00 49.24      A16S
ATOM  16507  C6  U   A 788     210.981  98.035 -37.591  1.00 49.24      A16S
ATOM  16508  C2  U   A 788     209.226  98.084 -35.976  1.00 49.24      A16S
ATOM  16509  O2  U   A 788     208.486  98.673 -35.211  1.00 49.24      A16S
ATOM  16510  N3  U   A 788     209.173  96.723 -36.142  1.00 49.24      A16S
ATOM  16511  C4  U   A 788     209.956  95.966 -36.974  1.00 49.24      A16S
ATOM  16512  O4  U   A 788     209.840  94.742 -36.969  1.00 49.24      A16S
ATOM  16513  C5  U   A 788     210.905  96.710 -37.733  1.00 49.24      A16S
ATOM  16514  C2* U   A 788     210.803 100.632 -35.226  1.00 36.20      A16S
ATOM  16515  O2* U   A 788     210.111 101.804 -34.827  1.00 36.20      A16S
ATOM  16516  C3* U   A 788     212.265 100.911 -35.534  1.00 36.20      A16S
ATOM  16517  O3* U   A 788     212.830 101.831 -34.612  1.00 36.20      A16S
ATOM  16518  P   U   A 789     213.771 101.289 -33.433  1.00 49.76      A16S
ATOM  16519  O1P U   A 789     214.153 102.472 -32.635  1.00 56.77      A16S
ATOM  16520  O2P U   A 789     214.825 100.404 -33.986  1.00 56.77      A16S
ATOM  16521  O5* U   A 789     212.793 100.397 -32.563  1.00 49.76      A16S
ATOM  16522  C5* U   A 789     211.657 100.994 -31.945  1.00 49.76      A16S
ATOM  16523  C4* U   A 789     210.821  99.952 -31.263  1.00 49.76      A16S
ATOM  16524  O4* U   A 789     210.157  99.115 -32.239  1.00 49.76      A16S
ATOM  16525  C1* U   A 789     209.970  97.824 -31.694  1.00 49.76      A16S
ATOM  16526  N1  U   A 789     210.576  96.828 -32.593  1.00 56.77      A16S
ATOM  16527  C6  U   A 789     211.614  97.150 -33.436  1.00 56.77      A16S
ATOM  16528  C2  U   A 789     210.066  95.537 -32.559  1.00 56.77      A16S
ATOM  16529  O2  U   A 789     209.138  95.199 -31.839  1.00 56.77      A16S
ATOM  16530  N3  U   A 789     210.679  94.650 -33.403  1.00 56.77      A16S
ATOM  16531  C4  U   A 789     211.715  94.906 -34.267  1.00 56.77      A16S
ATOM  16532  O4  U   A 789     212.130  93.998 -34.997  1.00 56.77      A16S
ATOM  16533  C5  U   A 789     212.183  96.258 -34.252  1.00 56.77      A16S
ATOM  16534  C2* U   A 789     210.569  97.820 -30.286  1.00 49.76      A16S
ATOM  16535  O2* U   A 789     209.535  98.086 -29.353  1.00 49.76      A16S
ATOM  16536  C3* U   A 789     211.555  98.976 -30.365  1.00 49.76      A16S
ATOM  16537  O3* U   A 789     211.819  99.541 -29.084  1.00 49.76      A16S
ATOM  16538  P   A   A 790     213.149  99.113 -28.289  1.00 34.63      A16S
ATOM  16539  O1P A   A 790     213.008  99.567 -26.869  1.00 64.30      A16S
ATOM  16540  O2P A   A 790     214.322  99.553 -29.093  1.00 64.30      A16S
ATOM  16541  O5* A   A 790     213.083  97.526 -28.311  1.00 34.63      A16S
ATOM  16542  C5* A   A 790     214.170  96.751 -27.830  1.00 34.63      A16S
ATOM  16543  C4* A   A 790     213.646  95.561 -27.097  1.00 34.63      A16S
ATOM  16544  O4* A   A 790     212.928  96.026 -25.938  1.00 34.63      A16S
ATOM  16545  C1* A   A 790     211.802  95.202 -25.713  1.00 34.63      A16S
ATOM  16546  N9  A   A 790     210.605  96.049 -25.715  1.00 64.30      A16S
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ATOM  16547  C4  A   A 790     209.427  95.793 -25.056  1.00 64.30      A16S
ATOM  16548  N3  A   A 790     209.137  94.729 -24.291  1.00 64.30      A16S
ATOM  16549  C2  A   A 790     207.900  94.821 -23.813  1.00 64.30      A16S
ATOM  16550  N1  A   A 790     206.990  95.784 -23.997  1.00 64.30      A16S
ATOM  16551  C6  A   A 790     207.317  96.840 -24.770  1.00 64.30      A16S
ATOM  16552  N6  A   A 790     206.413  97.806 -24.951  1.00 64.30      A16S
ATOM  16553  C5  A   A 790     208.597  96.860 -25.339  1.00 64.30      A16S
ATOM  16554  N7  A   A 790     209.234  97.776 -26.163  1.00 64.30      A16S
ATOM  16555  C8  A   A 790     210.419  97.250 -26.357  1.00 64.30      A16S
ATOM  16556  C2* A   A 790     211.809  94.103 -26.778  1.00 34.63      A16S
ATOM  16557  O2* A   A 790     212.438  92.956 -26.251  1.00 34.63      A16S
ATOM  16558  C3* A   A 790     212.636  94.747 -27.876  1.00 34.63      A16S
ATOM  16559  O3* A   A 790     213.295  93.800 -28.692  1.00 34.63      A16S
ATOM  16560  P   G   A 791     212.993  93.771 -30.267  1.00 50.05      A16S
ATOM  16561  O1P G   A 791     214.081  92.997 -30.907  1.00 49.78      A16S
ATOM  16562  O2P G   A 791     212.710  95.147 -30.735  1.00 49.78      A16S
ATOM  16563  O5* G   A 791     211.657  92.921 -30.355  1.00 50.05      A16S
ATOM  16564  C5* G   A 791     211.619  91.603 -29.818  1.00 50.05      A16S
ATOM  16565  C4* G   A 791     210.202  91.137 -29.702  1.00 50.05      A16S
ATOM  16566  O4* G   A 791     209.565  91.741 -28.553  1.00 50.05      A16S
ATOM  16567  C1* G   A 791     208.200  91.997 -28.847  1.00 50.05      A16S
ATOM  16568  N9  G   A 791     207.978  93.435 -28.721  1.00 49.78      A16S
ATOM  16569  C4  G   A 791     206.845  94.078 -28.261  1.00 49.78      A16S
ATOM  16570  N3  G   A 791     205.714  93.490 -27.822  1.00 49.78      A16S
ATOM  16571  C2  G   A 791     204.797  94.380 -27.483  1.00 49.78      A16S
ATOM  16572  N2  G   A 791     203.598  93.970 -27.037  1.00 49.78      A16S
ATOM  16573  N1  G   A 791     204.981  95.736 -27.564  1.00 49.78      A16S
ATOM  16574  C6  G   A 791     206.136  96.359 -28.018  1.00 49.78      A16S
ATOM  16575  O6  G   A 791     206.195  97.591 -28.080  1.00 49.78      A16S
ATOM  16576  C5  G   A 791     207.121  95.423 -28.377  1.00 49.78      A16S
ATOM  16577  N7  G   A 791     208.398  95.624 -28.876  1.00 49.78      A16S
ATOM  16578  C8  G   A 791     208.868  94.423 -29.061  1.00 49.78      A16S
ATOM  16579  C2* G   A 791     207.932  91.477 -30.263  1.00 50.05      A16S
ATOM  16580  O2* G   A 791     207.429  90.161 -30.202  1.00 50.05      A16S
ATOM  16581  C3* G   A 791     209.324  91.501 -30.879  1.00 50.05      A16S
ATOM  16582  O3* G   A 791     209.495  90.552 -31.920  1.00 50.05      A16S
ATOM  16583  P   A   A 792     209.290  90.996 -33.448  1.00 40.90      A16S
ATOM  16584  O1P A   A 792     210.004  90.031 -34.301  1.00 43.95      A16S
ATOM  16585  O2P A   A 792     209.534  92.439 -33.613  1.00 43.95      A16S
ATOM  16586  O5* A   A 792     207.754  90.716 -33.695  1.00 40.90      A16S
ATOM  16587  C5* A   A 792     206.771  91.453 -32.984  1.00 40.90      A16S
ATOM  16588  C4* A   A 792     205.768  92.011 -33.940  1.00 40.90      A16S
ATOM  16589  O4* A   A 792     204.906  92.905 -33.192  1.00 40.90      A16S
ATOM  16590  C1* A   A 792     204.983  94.211 -33.717  1.00 40.90      A16S
ATOM  16591  N9  A   A 792     204.993  95.141 -32.582  1.00 43.95      A16S
ATOM  16592  C4  A   A 792     203.883  95.724 -32.014  1.00 43.95      A16S
ATOM  16593  N3  A   A 792     202.596  95.535 -32.353  1.00 43.95      A16S
ATOM  16594  C2  A   A 792     201.807  96.319 -31.642  1.00 43.95      A16S
ATOM  16595  N1  A   A 792     202.128  97.205 -30.705  1.00 43.95      A16S
ATOM  16596  C6  A   A 792     203.430  97.367 -30.383  1.00 43.95      A16S
ATOM  16597  N6  A   A 792     203.759  98.267 -29.454  1.00 43.95      A16S
ATOM  16598  C5  A   A 792     204.365  96.589 -31.053  1.00 43.95      A16S
ATOM  16599  N7  A   A 792     205.746  96.517 -30.968  1.00 43.95      A16S
ATOM  16600  C8  A   A 792     206.071  95.639 -31.886  1.00 43.95      A16S
ATOM  16601  C2* A   A 792     206.233  94.271 -34.586  1.00 40.90      A16S
ATOM  16602  O2* A   A 792     206.205  95.284 -35.546  1.00 40.90      A16S
ATOM  16603  C3* A   A 792     206.379  92.827 -35.065  1.00 40.90      A16S
ATOM  16604  O3* A   A 792     205.998  92.295 -36.366  1.00 40.90      A16S
ATOM  16605  P   U   A 793     204.682  92.789 -37.159  1.00 45.91      A16S
ATOM  16606  O1P U   A 793     204.623  91.940 -38.373  1.00 52.09      A16S
ATOM  16607  O2P U   A 793     204.675  94.260 -37.305  1.00 52.09      A16S
ATOM  16608  O5* U   A 793     203.438  92.344 -36.275  1.00 45.91      A16S
ATOM  16609  C5* U   A 793     203.345  91.020 -35.739  1.00 45.91      A16S
ATOM  16610  C4* U   A 793     202.345  90.211 -36.517  1.00 45.91      A16S
ATOM  16611  O4* U   A 793     202.401  88.842 -36.042  1.00 45.91      A16S
ATOM  16612  C1* U   A 793     201.117  88.397 -35.691  1.00 45.91      A16S
ATOM  16613  N1  U   A 793     201.233  87.572 -34.479  1.00 52.09      A16S
ATOM  16614  C6  U   A 793     201.521  88.123 -33.257  1.00 52.09      A16S
ATOM  16615  C2  U   A 793     201.025  86.215 -34.609  1.00 52.09      A16S
ATOM  16616  O2  U   A 793     200.808  85.678 -35.675  1.00 52.09      A16S
ATOM  16617  N3  U   A 793     201.090  85.499 -33.442  1.00 52.09      A16S
ATOM  16618  C4  U   A 793     201.352  85.987 -32.185  1.00 52.09      A16S
ATOM  16619  O4  U   A 793     201.336  85.214 -31.219  1.00 52.09      A16S
ATOM  16620  C5  U   A 793     201.588  87.398 -32.136  1.00 52.09      A16S
ATOM  16621  C2* U   A 793     200.253  89.634 -35.491  1.00 45.91      A16S
ATOM  16622  O2* U   A 793     198.931  89.300 -35.863  1.00 45.91      A16S
ATOM  16623  C3* U   A 793     200.889  90.643 -36.444  1.00 45.91      A16S
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ATOM  16624  O3* U   A 793     200.296  90.527 -37.726  1.00 45.91      A16S
ATOM  16625  P    A  A 794     199.132  91.552 -38.160  1.00 32.12      A16S
ATOM  16626  O1P A  A 794     197.840  91.096 -37.551  1.00 54.14      A16S
ATOM  16627  O2P A  A 794     199.219  91.737 -39.645  1.00 54.14      A16S
ATOM  16628  O5* A  A 794     199.568  92.913 -37.475  1.00 32.12      A16S
ATOM  16629  C5* A  A 794     200.154  93.941 -38.245  1.00 32.12      A16S
ATOM  16630  C4* A  A 794     199.637  95.246 -37.769  1.00 32.12      A16S
ATOM  16631  O4* A  A 794     200.012  95.400 -36.386  1.00 32.12      A16S
ATOM  16632  C1* A  A 794     200.273  96.757 -36.119  1.00 32.12      A16S
ATOM  16633  N9   A  A 794     201.652  96.871 -35.635  1.00 54.14      A16S
ATOM  16634  C4   A  A 794     202.128  97.824 -34.770  1.00 54.14      A16S
ATOM  16635  N3   A  A 794     201.434  98.814 -34.191  1.00 54.14      A16S
ATOM  16636  C2   A  A 794     202.229  99.550 -33.424  1.00 54.14      A16S
ATOM  16637  N1   A  A 794     203.536  99.422 -33.187  1.00 54.14      A16S
ATOM  16638  C6   A  A 794     204.200  98.419 -33.785  1.00 54.14      A16S
ATOM  16639  N6   A  A 794     205.500  98.296 -33.551  1.00 54.14      A16S
ATOM  16640  C5   A  A 794     203.473  97.564 -34.622  1.00 54.14      A16S
ATOM  16641  N7   A  A 794     203.842  96.459 -35.370  1.00 54.14      A16S
ATOM  16642  C8   A  A 794     202.728  96.084 -35.946  1.00 54.14      A16S
ATOM  16643  C2* A  A 794     199.992  97.539 -37.409  1.00 32.12      A16S
ATOM  16644  O2* A  A 794     198.649  97.980 -37.411  1.00 32.12      A16S
ATOM  16645  C3* A  A 794     200.180  96.468 -38.464  1.00 32.12      A16S
ATOM  16646  O3* A  A 794     199.403  96.738 -39.610  1.00 32.12      A16S
ATOM  16647  P    C  A 795     200.019  97.619 -40.794  1.00 28.73      A16S
ATOM  16648  O1P C  A 795     198.997  97.677 -41.867  1.00 49.16      A16S
ATOM  16649  O2P C  A 795     201.382  97.122 -41.110  1.00 49.16      A16S
ATOM  16650  O5* C  A 795     200.166  99.068 -40.144  1.00 28.73      A16S
ATOM  16651  C5* C  A 795     199.010  99.896 -39.912  1.00 28.73      A16S
ATOM  16652  C4* C  A 795     199.353 101.039 -38.993  1.00 28.73      A16S
ATOM  16653  O4* C  A 795     199.978 100.506 -37.804  1.00 28.73      A16S
ATOM  16654  C1* C  A 795     200.890 101.451 -37.288  1.00 28.73      A16S
ATOM  16655  N1   C  A 795     202.181 100.793 -37.055  1.00 49.16      A16S
ATOM  16656  C6   C  A 795     202.542  99.676 -37.753  1.00 49.16      A16S
ATOM  16657  C2   C  A 795     203.053 101.345 -36.105  1.00 49.16      A16S
ATOM  16658  O2   C  A 795     202.683 102.350 -35.448  1.00 49.16      A16S
ATOM  16659  N3   C  A 795     204.271 100.774 -35.919  1.00 49.16      A16S
ATOM  16660  C4   C  A 795     204.618  99.698 -36.625  1.00 49.16      A16S
ATOM  16661  N4   C  A 795     205.830  99.190 -36.428  1.00 49.16      A16S
ATOM  16662  C5   C  A 795     203.737  99.101 -37.568  1.00 49.16      A16S
ATOM  16663  C2* C  A 795     200.956 102.637 -38.258  1.00 28.73      A16S
ATOM  16664  O2* C  A 795     200.229 103.746 -37.759  1.00 28.73      A16S
ATOM  16665  C3* C  A 795     200.344 102.053 -39.522  1.00 28.73      A16S
ATOM  16666  O3* C  A 795     199.674 103.060 -40.245  1.00 28.73      A16S
ATOM  16667  P    C  A 796     199.807 103.097 -41.835  1.00 32.65      A16S
ATOM  16668  O1P C  A 796     199.076 104.293 -42.319  1.00 44.44      A16S
ATOM  16669  O2P C  A 796     199.427 101.753 -42.342  1.00 44.44      A16S
ATOM  16670  O5* C  A 796     201.365 103.294 -42.107  1.00 32.65      A16S
ATOM  16671  C5* C  A 796     201.980 104.595 -42.016  1.00 32.65      A16S
ATOM  16672  C4* C  A 796     203.432 104.520 -42.419  1.00 32.65      A16S
ATOM  16673  O4* C  A 796     204.149 103.707 -41.459  1.00 32.65      A16S
ATOM  16674  C1* C  A 796     205.140 102.941 -42.123  1.00 32.65      A16S
ATOM  16675  N1   C  A 796     204.852 101.505 -41.930  1.00 44.44      A16S
ATOM  16676  C6   C  A 796     203.638 101.082 -41.469  1.00 44.44      A16S
ATOM  16677  C2   C  A 796     205.848 100.578 -42.231  1.00 44.44      A16S
ATOM  16678  O2   C  A 796     206.929 100.986 -42.669  1.00 44.44      A16S
ATOM  16679  N3   C  A 796     205.607  99.266 -42.047  1.00 44.44      A16S
ATOM  16680  C4   C  A 796     204.419  98.865 -41.596  1.00 44.44      A16S
ATOM  16681  N4   C  A 796     204.220  97.555 -41.431  1.00 44.44      A16S
ATOM  16682  C5   C  A 796     203.381  99.785 -41.293  1.00 44.44      A16S
ATOM  16683  C2* C  A 796     205.125 103.346 -43.592  1.00 32.65      A16S
ATOM  16684  O2* C  A 796     206.063 104.378 -43.759  1.00 32.65      A16S
ATOM  16685  C3* C  A 796     203.701 103.849 -43.753  1.00 32.65      A16S
ATOM  16686  O3* C  A 796     203.566 104.740 -44.847  1.00 32.65      A16S
ATOM  16687  P    C  A 797     203.092 104.163 -46.268  1.00 31.65      A16S
ATOM  16688  O1P C  A 797     202.787 105.312 -47.168  1.00 24.99      A16S
ATOM  16689  O2P C  A 797     202.063 103.135 -46.000  1.00 24.99      A16S
ATOM  16690  O5* C  A 797     204.367 103.385 -46.824  1.00 31.65      A16S
ATOM  16691  C5* C  A 797     205.595 104.082 -47.132  1.00 31.65      A16S
ATOM  16692  C4* C  A 797     206.633 103.111 -47.646  1.00 31.65      A16S
ATOM  16693  O4* C  A 797     207.070 102.231 -46.580  1.00 31.65      A16S
ATOM  16694  C1* C  A 797     207.391 100.959 -47.118  1.00 31.65      A16S
ATOM  16695  N1   C  A 797     206.538  99.942 -46.498  1.00 24.99      A16S
ATOM  16696  C6   C  A 797     205.382 100.280 -45.862  1.00 24.99      A16S
ATOM  16697  C2   C  A 797     206.934  98.612 -46.574  1.00 24.99      A16S
ATOM  16698  O2   C  A 797     207.969  98.336 -47.174  1.00 24.99      A16S
ATOM  16699  N3   C  A 797     206.181  97.660 -45.997  1.00 24.99      A16S
ATOM  16700  C4   C  A 797     205.067  97.997 -45.361  1.00 24.99      A16S
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ATOM  16701  N4  C   A 797     204.367  97.028 -44.774  1.00 24.99      A16S
ATOM  16702  C5  C   A 797     204.622  99.348 -45.287  1.00 24.99      A16S
ATOM  16703  C2* C   A 797     207.144 101.008 -48.618  1.00 31.65      A16S
ATOM  16704  O2* C   A 797     208.352 101.286 -49.277  1.00 31.65      A16S
ATOM  16705  C3* C   A 797     206.161 102.156 -48.726  1.00 31.65      A16S
ATOM  16706  O3* C   A 797     206.172 102.711 -50.021  1.00 31.65      A16S
ATOM  16707  P   G   A 798     205.237 102.059 -51.142  1.00 37.07      A16S
ATOM  16708  O1P G   A 798     205.286 102.906 -52.363  1.00 36.23      A16S
ATOM  16709  O2P G   A 798     203.934 101.794 -50.495  1.00 36.23      A16S
ATOM  16710  O5* G   A 798     205.949 100.659 -51.427  1.00 37.07      A16S
ATOM  16711  C5* G   A 798     207.342 100.607 -51.837  1.00 37.07      A16S
ATOM  16712  C4* G   A 798     207.736  99.197 -52.216  1.00 37.07      A16S
ATOM  16713  O4* G   A 798     207.913  98.377 -51.039  1.00 37.07      A16S
ATOM  16714  C1* G   A 798     207.432  97.067 -51.285  1.00 37.07      A16S
ATOM  16715  N9  G   A 798     206.358  96.799 -50.345  1.00 36.23      A16S
ATOM  16716  C4  G   A 798     205.876  95.580 -49.957  1.00 36.23      A16S
ATOM  16717  N3  G   A 798     206.324  94.383 -50.362  1.00 36.23      A16S
ATOM  16718  C2  G   A 798     205.646  93.395 -49.800  1.00 36.23      A16S
ATOM  16719  N2  G   A 798     205.962  92.133 -50.046  1.00 36.23      A16S
ATOM  16720  N1  G   A 798     204.605  93.569 -48.944  1.00 36.23      A16S
ATOM  16721  C6  G   A 798     204.111  94.797 -48.538  1.00 36.23      A16S
ATOM  16722  O6  G   A 798     203.118  94.854 -47.796  1.00 36.23      A16S
ATOM  16723  C5  G   A 798     204.847  95.856 -49.093  1.00 36.23      A16S
ATOM  16724  N7  G   A 798     204.700  97.218 -48.925  1.00 36.23      A16S
ATOM  16725  C8  G   A 798     205.617  97.736 -49.686  1.00 36.23      A16S
ATOM  16726  C2* G   A 798     206.933  97.016 -52.722  1.00 37.07      A16S
ATOM  16727  O2* G   A 798     207.912  96.418 -53.531  1.00 37.07      A16S
ATOM  16728  C3* G   A 798     206.682  98.488 -53.021  1.00 37.07      A16S
ATOM  16729  O3* G   A 798     206.777  98.815 -54.387  1.00 37.07      A16S
ATOM  16730  P   G   A 799     205.529  98.508 -55.335  1.00 36.31      A16S
ATOM  16731  O1P G   A 799     205.954  98.662 -56.752  1.00 41.74      A16S
ATOM  16732  O2P G   A 799     204.393  99.321 -54.811  1.00 41.74      A16S
ATOM  16733  O5* G   A 799     205.285  96.961 -55.037  1.00 36.31      A16S
ATOM  16734  C5* G   A 799     204.302  96.192 -55.723  1.00 36.31      A16S
ATOM  16735  C4* G   A 799     204.595  94.721 -55.542  1.00 36.31      A16S
ATOM  16736  O4* G   A 799     205.036  94.481 -54.184  1.00 36.31      A16S
ATOM  16737  C1* G   A 799     204.419  93.307 -53.680  1.00 36.31      A16S
ATOM  16738  N9  G   A 799     203.534  93.705 -52.592  1.00 41.74      A16S
ATOM  16739  C4  G   A 799     202.758  92.885 -51.821  1.00 41.74      A16S
ATOM  16740  N3  G   A 799     202.687  91.549 -51.917  1.00 41.74      A16S
ATOM  16741  C2  G   A 799     201.838  91.041 -51.048  1.00 41.74      A16S
ATOM  16742  N2  G   A 799     201.635  89.724 -51.020  1.00 41.74      A16S
ATOM  16743  N1  G   A 799     201.125  91.788 -50.147  1.00 41.74      A16S
ATOM  16744  C6  G   A 799     201.188  93.170 -50.036  1.00 41.74      A16S
ATOM  16745  O6  G   A 799     200.508  93.756 -49.193  1.00 41.74      A16S
ATOM  16746  C5  G   A 799     202.082  93.721 -50.965  1.00 41.74      A16S
ATOM  16747  N7  G   A 799     202.431  95.040 -51.188  1.00 41.74      A16S
ATOM  16748  C8  G   A 799     203.298  94.981 -52.156  1.00 41.74      A16S
ATOM  16749  C2* G   A 799     203.631  92.661 -54.824  1.00 36.31      A16S
ATOM  16750  O2* G   A 799     204.364  91.655 -55.480  1.00 36.31      A16S
ATOM  16751  C3* G   A 799     203.372  93.846 -55.728  1.00 36.31      A16S
ATOM  16752  O3* G   A 799     203.205  93.433 -57.060  1.00 36.31      A16S
ATOM  16753  P   G   A 800     201.730  93.378 -57.670  1.00 26.82      A16S
ATOM  16754  O1P G   A 800     201.800  92.662 -58.965  1.00 33.04      A16S
ATOM  16755  O2P G   A 800     201.144  94.755 -57.621  1.00 33.04      A16S
ATOM  16756  O5* G   A 800     200.958  92.423 -56.664  1.00 26.82      A16S
ATOM  16757  C5* G   A 800     201.255  91.045 -56.636  1.00 26.82      A16S
ATOM  16758  C4* G   A 800     200.413  90.363 -55.608  1.00 26.82      A16S
ATOM  16759  O4* G   A 800     200.701  90.940 -54.318  1.00 26.82      A16S
ATOM  16760  C1* G   A 800     199.526  90.993 -53.546  1.00 26.82      A16S
ATOM  16761  N9  G   A 800     199.298  92.399 -53.245  1.00 33.04      A16S
ATOM  16762  C4  G   A 800     198.618  92.913 -52.178  1.00 33.04      A16S
ATOM  16763  N3  G   A 800     198.011  92.201 -51.213  1.00 33.04      A16S
ATOM  16764  C2  G   A 800     197.442  92.977 -50.316  1.00 33.04      A16S
ATOM  16765  N2  G   A 800     196.787  92.435 -49.301  1.00 33.04      A16S
ATOM  16766  N1  G   A 800     197.472  94.346 -50.353  1.00 33.04      A16S
ATOM  16767  C6  G   A 800     198.098  95.108 -51.331  1.00 33.04      A16S
ATOM  16768  O6  G   A 800     198.084  96.352 -51.260  1.00 33.04      A16S
ATOM  16769  C5  G   A 800     198.703  94.282 -52.315  1.00 33.04      A16S
ATOM  16770  N7  G   A 800     199.413  94.620 -53.460  1.00 33.04      A16S
ATOM  16771  C8  G   A 800     199.743  93.473 -53.977  1.00 33.04      A16S
ATOM  16772  C2* G   A 800     198.412  90.323 -54.358  1.00 26.82      A16S
ATOM  16773  O2* G   A 800     198.337  88.951 -54.016  1.00 26.82      A16S
ATOM  16774  C3* G   A 800     198.916  90.492 -55.786  1.00 26.82      A16S
ATOM  16775  O3* G   A 800     198.452  89.441 -56.631  1.00 26.82      A16S
ATOM  16776  P   U   A 801     197.285  89.721 -57.709  1.00 32.94      A16S
ATOM  16777  O1P U   A 801     197.672  89.026 -58.971  1.00 38.60      A16S
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ATOM  16778  O2P U   A 801     196.961  91.178 -57.757  1.00 38.60      A16S
ATOM  16779  O5* U   A 801     196.060  88.911 -57.102  1.00 32.94      A16S
ATOM  16780  C5* U   A 801     196.040  87.506 -57.266  1.00 32.94      A16S
ATOM  16781  C4* U   A 801     195.209  86.833 -56.213  1.00 32.94      A16S
ATOM  16782  O4* U   A 801     195.767  87.007 -54.889  1.00 32.94      A16S
ATOM  16783  C1* U   A 801     194.722  86.911 -53.936  1.00 32.94      A16S
ATOM  16784  N1  U   A 801     194.598  88.201 -53.246  1.00 38.60      A16S
ATOM  16785  C6  U   A 801     195.131  89.355 -53.767  1.00 38.60      A16S
ATOM  16786  C2  U   A 801     193.901  88.214 -52.070  1.00 38.60      A16S
ATOM  16787  O2  U   A 801     193.455  87.205 -51.561  1.00 38.60      A16S
ATOM  16788  N3  U   A 801     193.748  89.451 -51.505  1.00 38.60      A16S
ATOM  16789  C4  U   A 801     194.226  90.647 -51.987  1.00 38.60      A16S
ATOM  16790  O4  U   A 801     193.905  91.699 -51.424  1.00 38.60      A16S
ATOM  16791  C5  U   A 801     194.974  90.541 -53.193  1.00 38.60      A16S
ATOM  16792  C2* U   A 801     193.434  86.648 -54.713  1.00 32.94      A16S
ATOM  16793  O2* U   A 801     193.223  85.260 -54.858  1.00 32.94      A16S
ATOM  16794  C3* U   A 801     193.775  87.263 -56.050  1.00 32.94      A16S
ATOM  16795  O3* U   A 801     192.948  86.764 -57.050  1.00 32.94      A16S
ATOM  16796  P   A   A 802     191.657  87.607 -57.461  1.00 37.53      A16S
ATOM  16797  O1P A   A 802     191.110  86.959 -58.690  1.00 26.76      A16S
ATOM  16798  O2P A   A 802     192.015  89.054 -57.480  1.00 26.76      A16S
ATOM  16799  O5* A   A 802     190.656  87.332 -56.256  1.00 37.53      A16S
ATOM  16800  C5* A   A 802     190.187  85.999 -55.995  1.00 37.53      A16S
ATOM  16801  C4* A   A 802     189.305  85.980 -54.775  1.00 37.53      A16S
ATOM  16802  O4* A   A 802     190.072  86.430 -53.636  1.00 37.53      A16S
ATOM  16803  C1* A   A 802     189.265  87.218 -52.795  1.00 37.53      A16S
ATOM  16804  N9  A   A 802     189.813  88.568 -52.810  1.00 26.76      A16S
ATOM  16805  C4  A   A 802     189.753  89.482 -51.797  1.00 26.76      A16S
ATOM  16806  N3  A   A 802     189.187  89.320 -50.594  1.00 26.76      A16S
ATOM  16807  C2  A   A 802     189.328  90.414 -49.869  1.00 26.76      A16S
ATOM  16808  N1  A   A 802     189.934  91.563 -50.180  1.00 26.76      A16S
ATOM  16809  C6  A   A 802     190.497  91.689 -51.398  1.00 26.76      A16S
ATOM  16810  N6  A   A 802     191.117  92.832 -51.703  1.00 26.76      A16S
ATOM  16811  C5  A   A 802     190.401  90.606 -52.265  1.00 26.76      A16S
ATOM  16812  N7  A   A 802     190.854  90.409 -53.553  1.00 26.76      A16S
ATOM  16813  C8  A   A 802     190.484  89.186 -53.829  1.00 26.76      A16S
ATOM  16814  C2* A   A 802     187.847  87.183 -53.358  1.00 37.53      A16S
ATOM  16815  O2* A   A 802     187.100  86.149 -52.747  1.00 37.53      A16S
ATOM  16816  C3* A   A 802     188.109  86.908 -54.827  1.00 37.53      A16S
ATOM  16817  O3* A   A 802     186.988  86.310 -55.458  1.00 37.53      A16S
ATOM  16818  P   G   A 803     186.029  87.212 -56.374  1.00 30.21      A16S
ATOM  16819  O1P G   A 803     184.713  86.525 -56.453  1.00 38.16      A16S
ATOM  16820  O2P G   A 803     186.741  87.619 -57.618  1.00 38.16      A16S
ATOM  16821  O5* G   A 803     185.823  88.542 -55.542  1.00 30.21      A16S
ATOM  16822  C5* G   A 803     185.081  88.526 -54.334  1.00 30.21      A16S
ATOM  16823  C4* G   A 803     185.258  89.831 -53.633  1.00 30.21      A16S
ATOM  16824  O4* G   A 803     186.675  90.033 -53.437  1.00 30.21      A16S
ATOM  16825  C1* G   A 803     186.978  91.399 -53.572  1.00 30.21      A16S
ATOM  16826  N9  G   A 803     187.914  91.558 -54.673  1.00 38.16      A16S
ATOM  16827  C4  G   A 803     188.825  92.560 -54.775  1.00 38.16      A16S
ATOM  16828  N3  G   A 803     189.037  93.514 -53.850  1.00 38.16      A16S
ATOM  16829  C2  G   A 803     189.963  94.363 -54.226  1.00 38.16      A16S
ATOM  16830  N2  G   A 803     190.316  95.355 -53.400  1.00 38.16      A16S
ATOM  16831  N1  G   A 803     190.616  94.295 -55.432  1.00 38.16      A16S
ATOM  16832  C6  G   A 803     190.409  93.319 -56.400  1.00 38.16      A16S
ATOM  16833  O6  G   A 803     191.052  93.354 -57.455  1.00 38.16      A16S
ATOM  16834  C5  G   A 803     189.430  92.386 -55.994  1.00 38.16      A16S
ATOM  16835  N7  G   A 803     188.931  91.263 -56.635  1.00 38.16      A16S
ATOM  16836  C8  G   A 803     188.037  90.796 -55.810  1.00 38.16      A16S
ATOM  16837  C2* G   A 803     185.674  92.147 -53.840  1.00 30.21      A16S
ATOM  16838  O2* G   A 803     185.154  92.608 -52.612  1.00 30.21      A16S
ATOM  16839  C3* G   A 803     184.814  91.045 -54.426  1.00 30.21      A16S
ATOM  16840  O3* G   A 803     183.435  91.294 -54.244  1.00 30.21      A16S
ATOM  16841  P   U   A 804     182.578  91.903 -55.454  1.00 25.13      A16S
ATOM  16842  O1P U   A 804     181.192  92.002 -54.927  1.00 53.53      A16S
ATOM  16843  O2P U   A 804     182.828  91.153 -56.710  1.00 53.53      A16S
ATOM  16844  O5* U   A 804     183.152  93.374 -55.616  1.00 25.13      A16S
ATOM  16845  C5* U   A 804     182.844  94.357 -54.638  1.00 25.13      A16S
ATOM  16846  C4* U   A 804     183.764  95.518 -54.764  1.00 25.13      A16S
ATOM  16847  O4* U   A 804     185.120  95.026 -54.778  1.00 25.13      A16S
ATOM  16848  C1* U   A 804     185.928  95.905 -55.537  1.00 25.13      A16S
ATOM  16849  N1  U   A 804     186.673  95.153 -56.560  1.00 53.53      A16S
ATOM  16850  C6  U   A 804     186.269  93.930 -57.003  1.00 53.53      A16S
ATOM  16851  C2  U   A 804     187.806  95.743 -57.067  1.00 53.53      A16S
ATOM  16852  O2  U   A 804     188.209  96.819 -56.703  1.00 53.53      A16S
ATOM  16853  N3  U   A 804     188.457  95.029 -58.022  1.00 53.53      A16S
ATOM  16854  C4  U   A 804     188.103  93.813 -58.520  1.00 53.53      A16S
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ATOM	16855	O4	U	A	804	188.782	93.313	-59.420	1.00	53.53	A16S
ATOM	16856	C5	U	A	804	186.927	93.255	-57.943	1.00	53.53	A16S
ATOM	16857	C2*	U	A	804	185.013	96.977	-56.119	1.00	25.13	A16S
ATOM	16858	O2*	U	A	804	185.050	98.087	-55.252	1.00	25.13	A16S
ATOM	16859	C3*	U	A	804	183.659	96.295	-56.054	1.00	25.13	A16S
ATOM	16860	O3*	U	A	804	182.588	97.220	-56.024	1.00	25.13	A16S
ATOM	16861	P	C	A	805	181.268	96.915	-56.887	1.00	39.10	A16S
ATOM	16862	O1P	C	A	805	180.367	98.097	-56.812	1.00	27.05	A16S
ATOM	16863	O2P	C	A	805	180.767	95.565	-56.503	1.00	27.05	A16S
ATOM	16864	O5*	C	A	805	181.790	96.818	-58.373	1.00	39.10	A16S
ATOM	16865	C5*	C	A	805	182.151	97.994	-59.065	1.00	39.10	A16S
ATOM	16866	C4*	C	A	805	182.364	97.677	-60.504	1.00	39.10	A16S
ATOM	16867	O4*	C	A	805	183.513	96.813	-60.634	1.00	39.10	A16S
ATOM	16868	C1*	C	A	805	183.308	95.914	-61.696	1.00	39.10	A16S
ATOM	16869	N1	C	A	805	183.355	94.541	-61.171	1.00	27.05	A16S
ATOM	16870	C6	C	A	805	183.303	94.288	-59.833	1.00	27.05	A16S
ATOM	16871	C2	C	A	805	183.433	93.494	-62.079	1.00	27.05	A16S
ATOM	16872	O2	C	A	805	183.545	93.758	-63.292	1.00	27.05	A16S
ATOM	16873	N3	C	A	805	183.398	92.222	-61.627	1.00	27.05	A16S
ATOM	16874	C4	C	A	805	183.312	91.984	-60.323	1.00	27.05	A16S
ATOM	16875	N4	C	A	805	183.243	90.710	-59.928	1.00	27.05	A16S
ATOM	16876	C5	C	A	805	183.282	93.035	-59.370	1.00	27.05	A16S
ATOM	16877	C2*	C	A	805	181.958	96.256	-62.317	1.00	39.10	A16S
ATOM	16878	O2*	C	A	805	182.192	97.243	-63.292	1.00	39.10	A16S
ATOM	16879	C3*	C	A	805	181.245	96.896	-61.149	1.00	39.10	A16S
ATOM	16880	O3*	C	A	805	180.225	97.768	-61.564	1.00	39.10	A16S
ATOM	16881	P	C	A	806	178.703	97.406	-61.234	1.00	50.17	A16S
ATOM	16882	O1P	C	A	806	178.000	98.701	-61.251	1.00	23.78	A16S
ATOM	16883	O2P	C	A	806	178.626	96.533	-60.036	1.00	23.78	A16S
ATOM	16884	O5*	C	A	806	178.252	96.529	-62.474	1.00	50.17	A16S
ATOM	16885	C5*	C	A	806	178.529	96.958	-63.819	1.00	50.17	A16S
ATOM	16886	C4*	C	A	806	178.293	95.821	-64.785	1.00	50.17	A16S
ATOM	16887	O4*	C	A	806	179.394	94.882	-64.747	1.00	50.17	A16S
ATOM	16888	C1*	C	A	806	178.905	93.572	-64.945	1.00	50.17	A16S
ATOM	16889	N1	C	A	806	179.325	92.739	-63.816	1.00	23.78	A16S
ATOM	16890	C6	C	A	806	179.739	93.296	-62.644	1.00	23.78	A16S
ATOM	16891	C2	C	A	806	179.290	91.354	-63.964	1.00	23.78	A16S
ATOM	16892	O2	C	A	806	178.931	90.879	-65.044	1.00	23.78	A16S
ATOM	16893	N3	C	A	806	179.647	90.567	-62.939	1.00	23.78	A16S
ATOM	16894	C4	C	A	806	180.032	91.115	-61.794	1.00	23.78	A16S
ATOM	16895	N4	C	A	806	180.355	90.297	-60.797	1.00	23.78	A16S
ATOM	16896	C5	C	A	806	180.099	92.530	-61.615	1.00	23.78	A16S
ATOM	16897	C2*	C	A	806	177.386	93.641	-65.102	1.00	50.17	A16S
ATOM	16898	O2*	C	A	806	177.045	93.566	-66.466	1.00	50.17	A16S
ATOM	16899	C3*	C	A	806	177.070	94.987	-64.471	1.00	50.17	A16S
ATOM	16900	O3*	C	A	806	175.904	95.592	-64.985	1.00	50.17	A16S
ATOM	16901	P	A	A	807	174.514	95.370	-64.226	1.00	43.50	A16S
ATOM	16902	O1P	A	A	807	173.538	96.303	-64.851	1.00	45.79	A16S
ATOM	16903	O2P	A	A	807	174.767	95.436	-62.753	1.00	45.79	A16S
ATOM	16904	O5*	A	A	807	174.135	93.883	-64.636	1.00	43.50	A16S
ATOM	16905	C5*	A	A	807	173.952	93.558	-66.016	1.00	43.50	A16S
ATOM	16906	C4*	A	A	807	173.757	92.084	-66.190	1.00	43.50	A16S
ATOM	16907	O4*	A	A	807	174.996	91.389	-65.964	1.00	43.50	A16S
ATOM	16908	C1*	A	A	807	174.719	90.095	-65.464	1.00	43.50	A16S
ATOM	16909	N9	A	A	807	175.489	89.887	-64.247	1.00	45.79	A16S
ATOM	16910	C4	A	A	807	175.712	88.664	-63.680	1.00	45.79	A16S
ATOM	16911	N3	A	A	807	175.255	87.483	-64.110	1.00	45.79	A16S
ATOM	16912	C2	A	A	807	175.694	86.505	-63.332	1.00	45.79	A16S
ATOM	16913	N1	A	A	807	176.470	86.567	-62.253	1.00	45.79	A16S
ATOM	16914	C6	A	A	807	176.904	87.775	-61.843	1.00	45.79	A16S
ATOM	16915	N6	A	A	807	177.675	87.843	-60.759	1.00	45.79	A16S
ATOM	16916	C5	A	A	807	176.513	88.896	-62.587	1.00	45.79	A16S
ATOM	16917	N7	A	A	807	176.776	90.253	-62.447	1.00	45.79	A16S
ATOM	16918	C8	A	A	807	176.142	90.797	-63.453	1.00	45.79	A16S
ATOM	16919	C2*	A	A	807	173.217	89.976	-65.245	1.00	43.50	A16S
ATOM	16920	O2*	A	A	807	172.656	89.250	-66.316	1.00	43.50	A16S
ATOM	16921	C3*	A	A	807	172.803	91.437	-65.218	1.00	43.50	A16S
ATOM	16922	O3*	A	A	807	171.476	91.643	-65.608	1.00	43.50	A16S
ATOM	16923	P	C	A	808	170.387	91.958	-64.486	1.00	45.44	A16S
ATOM	16924	O1P	C	A	808	169.259	92.587	-65.213	1.00	58.12	A16S
ATOM	16925	O2P	C	A	808	171.041	92.698	-63.370	1.00	58.12	A16S
ATOM	16926	O5*	C	A	808	169.990	90.505	-63.967	1.00	45.44	A16S
ATOM	16927	C5*	C	A	808	169.377	89.564	-64.849	1.00	45.44	A16S
ATOM	16928	C4*	C	A	808	169.547	88.166	-64.326	1.00	45.44	A16S
ATOM	16929	O4*	C	A	808	170.945	87.795	-64.365	1.00	45.44	A16S
ATOM	16930	C1*	C	A	808	171.216	86.856	-63.332	1.00	45.44	A16S
ATOM	16931	N1	C	A	808	172.229	87.394	-62.418	1.00	58.12	A16S

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ATOM  16932  C6  C   A 808     172.410  88.738 -62.251  1.00 58.12      A16S
ATOM  16933  C2  C   A 808     172.975  86.490 -61.682  1.00 58.12      A16S
ATOM  16934  O2  C   A 808     172.823  85.276 -61.905  1.00 58.12      A16S
ATOM  16935  N3  C   A 808     173.841  86.948 -60.753  1.00 58.12      A16S
ATOM  16936  C4  C   A 808     173.981  88.257 -60.564  1.00 58.12      A16S
ATOM  16937  N4  C   A 808     174.818  88.665 -59.611  1.00 58.12      A16S
ATOM  16938  C5  C   A 808     173.264  89.208 -61.339  1.00 58.12      A16S
ATOM  16939  C2* C   A 808     169.934  86.655 -62.540  1.00 45.44      A16S
ATOM  16940  O2* C   A 808     169.284  85.473 -62.949  1.00 45.44      A16S
ATOM  16941  C3* C   A 808     169.179  87.929 -62.876  1.00 45.44      A16S
ATOM  16942  O3* C   A 808     167.806  87.801 -62.631  1.00 45.44      A16S
ATOM  16943  P   G   A 809     167.230  88.297 -61.218  1.00 34.32      A16S
ATOM  16944  O1P G   A 809     165.745  88.251 -61.382  1.00 36.52      A16S
ATOM  16945  O2P G   A 809     167.890  89.577 -60.819  1.00 36.52      A16S
ATOM  16946  O5* G   A 809     167.716  87.174 -60.198  1.00 34.32      A16S
ATOM  16947  C5* G   A 809     167.168  85.865 -60.276  1.00 34.32      A16S
ATOM  16948  C4* G   A 809     167.926  84.922 -59.389  1.00 34.32      A16S
ATOM  16949  O4* G   A 809     169.345  85.050 -59.651  1.00 34.32      A16S
ATOM  16950  C1* G   A 809     170.071  84.597 -58.526  1.00 34.32      A16S
ATOM  16951  N9  G   A 809     170.971  85.649 -58.089  1.00 36.52      A16S
ATOM  16952  C4  G   A 809     171.943  85.508 -57.139  1.00 36.52      A16S
ATOM  16953  N3  G   A 809     172.250  84.368 -56.503  1.00 36.52      A16S
ATOM  16954  C2  G   A 809     173.222  84.540 -55.636  1.00 36.52      A16S
ATOM  16955  N2  G   A 809     173.662  83.490 -54.939  1.00 36.52      A16S
ATOM  16956  N1  G   A 809     173.833  85.746 -55.395  1.00 36.52      A16S
ATOM  16957  C6  G   A 809     173.521  86.933 -56.031  1.00 36.52      A16S
ATOM  16958  O6  G   A 809     174.109  87.959 -55.724  1.00 36.52      A16S
ATOM  16959  C5  G   A 809     172.496  86.756 -56.985  1.00 36.52      A16S
ATOM  16960  N7  G   A 809     171.903  87.662 -57.852  1.00 36.52      A16S
ATOM  16961  C8  G   A 809     171.006  86.958 -58.492  1.00 36.52      A16S
ATOM  16962  C2* G   A 809     169.060  84.314 -57.422  1.00 34.32      A16S
ATOM  16963  O2* G   A 809     168.763  82.934 -57.378  1.00 34.32      A16S
ATOM  16964  C3* G   A 809     167.868  85.127 -57.893  1.00 34.32      A16S
ATOM  16965  O3* G   A 809     166.693  84.650 -57.295  1.00 34.32      A16S
ATOM  16966  P   C   A 810     166.050  85.486 -56.092  1.00 47.78      A16S
ATOM  16967  O1P C   A 810     164.815  84.736 -55.745  1.00 35.18      A16S
ATOM  16968  O2P C   A 810     165.956  86.909 -56.523  1.00 35.18      A16S
ATOM  16969  O5* C   A 810     167.124  85.395 -54.899  1.00 47.78      A16S
ATOM  16970  C5* C   A 810     167.287  84.164 -54.143  1.00 47.78      A16S
ATOM  16971  C4* C   A 810     168.488  84.204 -53.191  1.00 47.78      A16S
ATOM  16972  O4* C   A 810     169.688  84.700 -53.832  1.00 47.78      A16S
ATOM  16973  C1* C   A 810     170.651  84.985 -52.837  1.00 47.78      A16S
ATOM  16974  N1  C   A 810     171.264  86.295 -53.082  1.00 35.18      A16S
ATOM  16975  C6  C   A 810     170.727  87.171 -53.976  1.00 35.18      A16S
ATOM  16976  C2  C   A 810     172.418  86.644 -52.361  1.00 35.18      A16S
ATOM  16977  O2  C   A 810     172.899  85.830 -51.573  1.00 35.18      A16S
ATOM  16978  N3  C   A 810     172.976  87.855 -52.542  1.00 35.18      A16S
ATOM  16979  C4  C   A 810     172.429  88.710 -53.397  1.00 35.18      A16S
ATOM  16980  N4  C   A 810     172.990  89.901 -53.525  1.00 35.18      A16S
ATOM  16981  C5  C   A 810     171.270  88.381 -54.160  1.00 35.18      A16S
ATOM  16982  C2* C   A 810     169.934  84.958 -51.497  1.00 47.78      A16S
ATOM  16983  O2* C   A 810     170.217  83.708 -50.911  1.00 47.78      A16S
ATOM  16984  C3* C   A 810     168.473  85.023 -51.911  1.00 47.78      A16S
ATOM  16985  O3* C   A 810     167.733  84.400 -50.874  1.00 47.78      A16S
ATOM  16986  P   C   A 811     167.070  85.302 -49.720  1.00 21.31      A16S
ATOM  16987  O1P C   A 811     166.246  84.393 -48.876  1.00 30.30      A16S
ATOM  16988  O2P C   A 811     166.439  86.455 -50.418  1.00 30.30      A16S
ATOM  16989  O5* C   A 811     168.290  85.849 -48.859  1.00 21.31      A16S
ATOM  16990  C5* C   A 811     169.184  84.956 -48.185  1.00 21.31      A16S
ATOM  16991  C4* C   A 811     170.382  85.717 -47.684  1.00 21.31      A16S
ATOM  16992  O4* C   A 811     170.973  86.438 -48.784  1.00 21.31      A16S
ATOM  16993  C1* C   A 811     171.695  87.530 -48.279  1.00 21.31      A16S
ATOM  16994  N1  C   A 811     171.507  88.708 -49.132  1.00 30.30      A16S
ATOM  16995  C6  C   A 811     170.619  88.718 -50.169  1.00 30.30      A16S
ATOM  16996  C2  C   A 811     172.272  89.843 -48.848  1.00 30.30      A16S
ATOM  16997  O2  C   A 811     173.080  89.798 -47.907  1.00 30.30      A16S
ATOM  16998  N3  C   A 811     172.116  90.953 -49.592  1.00 30.30      A16S
ATOM  16999  C4  C   A 811     171.240  90.959 -50.592  1.00 30.30      A16S
ATOM  17000  N4  C   A 811     171.110  92.086 -51.285  1.00 30.30      A16S
ATOM  17001  C5  C   A 811     170.455  89.811 -50.919  1.00 30.30      A16S
ATOM  17002  C2* C   A 811     171.267  87.757 -46.834  1.00 21.31      A16S
ATOM  17003  O2* C   A 811     172.361  87.437 -46.007  1.00 21.31      A16S
ATOM  17004  C3* C   A 811     170.079  86.814 -46.685  1.00 21.31      A16S
ATOM  17005  O3* C   A 811     170.059  86.275 -45.375  1.00 21.31      A16S
ATOM  17006  P   C   A 812     168.909  86.699 -44.353  1.00 36.17      A16S
ATOM  17007  O1P C   A 812     169.377  86.275 -43.016  1.00 33.88      A16S
ATOM  17008  O2P C   A 812     167.632  86.175 -44.890  1.00 33.88      A16S
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ATOM  17009  O5*  C   A 812     168.907  88.289 -44.386  1.00 36.17      A16S
ATOM  17010  C5*  C   A 812     169.383  89.043 -43.261  1.00 36.17      A16S
ATOM  17011  C4*  C   A 812     169.006  90.492 -43.407  1.00 36.17      A16S
ATOM  17012  O4*  C   A 812     169.425  90.902 -44.723  1.00 36.17      A16S
ATOM  17013  C1*  C   A 812     168.577  91.926 -45.194  1.00 36.17      A16S
ATOM  17014  N1   C   A 812     168.227  91.664 -46.593  1.00 33.88      A16S
ATOM  17015  C6   C   A 812     167.477  90.584 -46.930  1.00 33.88      A16S
ATOM  17016  C2   C   A 812     168.695  92.538 -47.585  1.00 33.88      A16S
ATOM  17017  O2   C   A 812     169.375  93.523 -47.262  1.00 33.88      A16S
ATOM  17018  N3   C   A 812     168.407  92.289 -48.866  1.00 33.88      A16S
ATOM  17019  C4   C   A 812     167.695  91.217 -49.184  1.00 33.88      A16S
ATOM  17020  N4   C   A 812     167.461  90.986 -50.477  1.00 33.88      A16S
ATOM  17021  C5   C   A 812     167.193  90.325 -48.200  1.00 33.88      A16S
ATOM  17022  C2*  C   A 812     167.432  92.118 -44.203  1.00 36.17      A16S
ATOM  17023  O2*  C   A 812     167.741  93.291 -43.494  1.00 36.17      A16S
ATOM  17024  C3*  C   A 812     167.525  90.854 -43.354  1.00 36.17      A16S
ATOM  17025  O3*  C   A 812     167.073  90.986 -41.990  1.00 36.17      A16S
ATOM  17026  P    U   A 813     167.158  92.407 -41.188  1.00 38.57      A16S
ATOM  17027  O1P  U   A 813     166.862  92.008 -39.781  1.00 30.08      A16S
ATOM  17028  O2P  U   A 813     166.363  93.508 -41.816  1.00 30.08      A16S
ATOM  17029  O5*  U   A 813     168.694  92.812 -41.180  1.00 38.57      A16S
ATOM  17030  C5*  U   A 813     169.591  92.104 -40.339  1.00 38.57      A16S
ATOM  17031  C4*  U   A 813     170.921  92.784 -40.300  1.00 38.57      A16S
ATOM  17032  O4*  U   A 813     171.498  92.832 -41.626  1.00 38.57      A16S
ATOM  17033  C1*  U   A 813     172.315  93.977 -41.743  1.00 38.57      A16S
ATOM  17034  N1   U   A 813     171.849  94.766 -42.892  1.00 30.08      A16S
ATOM  17035  C6   U   A 813     170.615  94.576 -43.446  1.00 30.08      A16S
ATOM  17036  C2   U   A 813     172.704  95.705 -43.401  1.00 30.08      A16S
ATOM  17037  O2   U   A 813     173.812  95.891 -42.950  1.00 30.08      A16S
ATOM  17038  N3   U   A 813     172.224  96.416 -44.471  1.00 30.08      A16S
ATOM  17039  C4   U   A 813     171.009  96.269 -45.081  1.00 30.08      A16S
ATOM  17040  O4   U   A 813     170.765  96.904 -46.105  1.00 30.08      A16S
ATOM  17041  C5   U   A 813     170.179  95.276 -44.498  1.00 30.08      A16S
ATOM  17042  C2*  U   A 813     172.271  94.714 -40.404  1.00 38.57      A16S
ATOM  17043  O2*  U   A 813     173.378  94.269 -39.639  1.00 38.57      A16S
ATOM  17044  C3*  U   A 813     170.949  94.219 -39.821  1.00 38.57      A16S
ATOM  17045  O3*  U   A 813     170.942  94.230 -38.404  1.00 38.57      A16S
ATOM  17046  P    A   A 814     170.592  95.586 -37.609  1.00 27.19      A16S
ATOM  17047  O1P  A   A 814     169.219  96.071 -37.934  1.00 36.58      A16S
ATOM  17048  O2P  A   A 814     170.958  95.271 -36.197  1.00 36.58      A16S
ATOM  17049  O5*  A   A 814     171.617  96.665 -38.171  1.00 27.19      A16S
ATOM  17050  C5*  A   A 814     172.893  96.793 -37.562  1.00 27.19      A16S
ATOM  17051  C4*  A   A 814     173.564  98.045 -38.014  1.00 27.19      A16S
ATOM  17052  O4*  A   A 814     173.915  97.912 -39.392  1.00 27.19      A16S
ATOM  17053  C1*  A   A 814     173.959  99.179 -39.982  1.00 27.19      A16S
ATOM  17054  N9   A   A 814     173.134  99.146 -41.174  1.00 36.58      A16S
ATOM  17055  C4   A   A 814     173.288  99.957 -42.263  1.00 36.58      A16S
ATOM  17056  N3   A   A 814     174.227 100.894 -42.443  1.00 36.58      A16S
ATOM  17057  C2   A   A 814     174.045 101.500 -43.595  1.00 36.58      A16S
ATOM  17058  N1   A   A 814     173.096 101.303 -44.512  1.00 36.58      A16S
ATOM  17059  C6   A   A 814     172.165 100.357 -44.284  1.00 36.58      A16S
ATOM  17060  N6   A   A 814     171.189 100.178 -45.175  1.00 36.58      A16S
ATOM  17061  C5   A   A 814     172.265  99.629 -43.119  1.00 36.58      A16S
ATOM  17062  N7   A   A 814     171.501  98.597 -42.603  1.00 36.58      A16S
ATOM  17063  C8   A   A 814     172.057  98.346 -41.447  1.00 36.58      A16S
ATOM  17064  C2*  A   A 814     173.486 100.199 -38.954  1.00 27.19      A16S
ATOM  17065  O2*  A   A 814     174.635 100.801 -38.407  1.00 27.19      A16S
ATOM  17066  C3*  A   A 814     172.759  99.317 -37.955  1.00 27.19      A16S
ATOM  17067  O3*  A   A 814     172.809  99.848 -36.648  1.00 27.19      A16S
ATOM  17068  P    A   A 815     171.664 100.863 -36.156  1.00 25.25      A16S
ATOM  17069  O1P  A   A 815     170.466 100.784 -37.039  1.00 19.82      A16S
ATOM  17070  O2P  A   A 815     171.501 100.648 -34.695  1.00 19.82      A16S
ATOM  17071  O5*  A   A 815     172.332 102.284 -36.385  1.00 25.25      A16S
ATOM  17072  C5*  A   A 815     173.432 102.705 -35.576  1.00 25.25      A16S
ATOM  17073  C4*  A   A 815     173.904 104.036 -36.049  1.00 25.25      A16S
ATOM  17074  O4*  A   A 815     174.742 104.673 -35.058  1.00 25.25      A16S
ATOM  17075  C1*  A   A 815     175.884 105.186 -35.690  1.00 25.25      A16S
ATOM  17076  N9   A   A 815     176.985 105.154 -34.747  1.00 19.82      A16S
ATOM  17077  C4   A   A 815     177.737 106.227 -34.371  1.00 19.82      A16S
ATOM  17078  N3   A   A 815     177.622 107.488 -34.805  1.00 19.82      A16S
ATOM  17079  C2   A   A 815     178.490 108.269 -34.180  1.00 19.82      A16S
ATOM  17080  N1   A   A 815     179.395 107.945 -33.260  1.00 19.82      A16S
ATOM  17081  C6   A   A 815     179.490 106.652 -32.875  1.00 19.82      A16S
ATOM  17082  N6   A   A 815     180.413 106.300 -31.987  1.00 19.82      A16S
ATOM  17083  C5   A   A 815     178.624 105.752 -33.436  1.00 19.82      A16S
ATOM  17084  N7   A   A 815     178.453 104.402 -33.235  1.00 19.82      A16S
ATOM  17085  C8   A   A 815     177.470 104.093 -34.041  1.00 19.82      A16S
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ATOM  17086  C2* A   A 815     176.109 104.309 -36.905  1.00 25.25      A16S
ATOM  17087  O2* A   A 815     176.809 105.079 -37.844  1.00 25.25      A16S
ATOM  17088  C3* A   A 815     174.682 104.018 -37.345  1.00 25.25      A16S
ATOM  17089  O3* A   A 815     174.218 105.051 -38.172  1.00 25.25      A16S
ATOM  17090  P    A   A 816     174.042 104.767 -39.728  1.00 31.54      A16S
ATOM  17091  O1P A   A 816     173.427 105.977 -40.334  1.00 16.39      A16S
ATOM  17092  O2P A   A 816     175.343 104.271 -40.231  1.00 16.39      A16S
ATOM  17093  O5* A   A 816     173.033 103.530 -39.797  1.00 31.54      A16S
ATOM  17094  C5* A   A 816     171.640 103.669 -39.461  1.00 31.54      A16S
ATOM  17095  C4* A   A 816     170.789 103.563 -40.708  1.00 31.54      A16S
ATOM  17096  O4* A   A 816     170.995 102.279 -41.331  1.00 31.54      A16S
ATOM  17097  C1* A   A 816     169.820 101.887 -42.005  1.00 31.54      A16S
ATOM  17098  N9   A   A 816     169.393 100.602 -41.471  1.00 16.39      A16S
ATOM  17099  C4   A   A 816     168.831  99.592 -42.204  1.00 16.39      A16S
ATOM  17100  N3   A   A 816     168.564  99.600 -43.517  1.00 16.39      A16S
ATOM  17101  C2   A   A 816     168.036  98.442 -43.884  1.00 16.39      A16S
ATOM  17102  N1   A   A 816     167.766  97.363 -43.148  1.00 16.39      A16S
ATOM  17103  C6   A   A 816     168.047  97.394 -41.832  1.00 16.39      A16S
ATOM  17104  N6   A   A 816     167.774  96.314 -41.096  1.00 16.39      A16S
ATOM  17105  C5   A   A 816     168.609  98.559 -41.317  1.00 16.39      A16S
ATOM  17106  N7   A   A 816     169.014  98.910 -40.044  1.00 16.39      A16S
ATOM  17107  C8   A   A 816     169.466 100.135 -40.188  1.00 16.39      A16S
ATOM  17108  C2* A   A 816     168.772 102.970 -41.793  1.00 31.54      A16S
ATOM  17109  O2* A   A 816     168.807 103.881 -42.874  1.00 31.54      A16S
ATOM  17110  C3* A   A 816     169.279 103.642 -40.534  1.00 31.54      A16S
ATOM  17111  O3* A   A 816     168.825 104.982 -40.532  1.00 31.54      A16S
ATOM  17112  P    C   A 817     167.722 105.446 -39.466  1.00 25.60      A16S
ATOM  17113  O1P C   A 817     166.423 104.801 -39.760  1.00 19.28      A16S
ATOM  17114  O2P C   A 817     168.306 105.324 -38.118  1.00 19.28      A16S
ATOM  17115  O5* C   A 817     167.585 106.987 -39.777  1.00 25.60      A16S
ATOM  17116  C5* C   A 817     168.697 107.686 -40.319  1.00 25.60      A16S
ATOM  17117  C4* C   A 817     169.062 108.842 -39.442  1.00 25.60      A16S
ATOM  17118  O4* C   A 817     169.255 108.419 -38.068  1.00 25.60      A16S
ATOM  17119  C1* C   A 817     170.513 108.858 -37.629  1.00 25.60      A16S
ATOM  17120  N1   C   A 817     171.010 107.945 -36.604  1.00 19.28      A16S
ATOM  17121  C6   C   A 817     170.413 106.743 -36.377  1.00 19.28      A16S
ATOM  17122  C2   C   A 817     172.093 108.343 -35.838  1.00 19.28      A16S
ATOM  17123  O2   C   A 817     172.613 109.436 -36.070  1.00 19.28      A16S
ATOM  17124  N3   C   A 817     172.542 107.546 -34.855  1.00 19.28      A16S
ATOM  17125  C4   C   A 817     171.941 106.389 -34.621  1.00 19.28      A16S
ATOM  17126  N4   C   A 817     172.399 105.645 -33.627  1.00 19.28      A16S
ATOM  17127  C5   C   A 817     170.837 105.944 -35.396  1.00 19.28      A16S
ATOM  17128  C2* C   A 817     171.377 109.006 -38.879  1.00 25.60      A16S
ATOM  17129  O2* C   A 817     172.454 109.930 -38.689  1.00 25.60      A16S
ATOM  17130  C3* C   A 817     170.343 109.528 -39.871  1.00 25.60      A16S
ATOM  17131  O3* C   A 817     170.158 110.894 -39.627  1.00 25.60      A16S
ATOM  17132  P    G   A 818     169.737 111.858 -40.816  1.00 38.08      A16S
ATOM  17133  O1P G   A 818     168.595 111.177 -41.500  1.00 44.24      A16S
ATOM  17134  O2P G   A 818     170.961 112.225 -41.590  1.00 44.24      A16S
ATOM  17135  O5* G   A 818     169.261 113.151 -40.017  1.00 38.08      A16S
ATOM  17136  C5* G   A 818     170.203 113.918 -39.237  1.00 38.08      A16S
ATOM  17137  C4* G   A 818     169.610 114.302 -37.896  1.00 38.08      A16S
ATOM  17138  O4* G   A 818     168.276 114.836 -38.095  1.00 38.08      A16S
ATOM  17139  C1* G   A 818     167.378 114.181 -37.233  1.00 38.08      A16S
ATOM  17140  N9   G   A 818     166.067 114.144 -37.862  1.00 44.24      A16S
ATOM  17141  C4   G   A 818     164.934 114.720 -37.362  1.00 44.24      A16S
ATOM  17142  N3   G   A 818     164.842 115.402 -36.199  1.00 44.24      A16S
ATOM  17143  C2   G   A 818     163.618 115.833 -35.978  1.00 44.24      A16S
ATOM  17144  N2   G   A 818     163.354 116.526 -34.863  1.00 44.24      A16S
ATOM  17145  N1   G   A 818     162.565 115.610 -36.835  1.00 44.24      A16S
ATOM  17146  C6   G   A 818     162.641 114.899 -38.033  1.00 44.24      A16S
ATOM  17147  O6   G   A 818     161.628 114.727 -38.723  1.00 44.24      A16S
ATOM  17148  C5   G   A 818     163.948 114.444 -38.280  1.00 44.24      A16S
ATOM  17149  N7   G   A 818     164.454 113.710 -39.341  1.00 44.24      A16S
ATOM  17150  C8   G   A 818     165.715 113.553 -39.049  1.00 44.24      A16S
ATOM  17151  C2* G   A 818     168.007 112.832 -36.924  1.00 38.08      A16S
ATOM  17152  O2* G   A 818     167.475 112.336 -35.720  1.00 38.08      A16S
ATOM  17153  C3* G   A 818     169.474 113.222 -36.828  1.00 38.08      A16S
ATOM  17154  O3* G   A 818     169.635 113.878 -35.576  1.00 38.08      A16S
ATOM  17155  P    A   A 819     170.685 113.331 -34.502  1.00 32.94      A16S
ATOM  17156  O1P A   A 819     170.689 114.279 -33.369  1.00 30.64      A16S
ATOM  17157  O2P A   A 819     171.935 113.072 -35.242  1.00 30.64      A16S
ATOM  17158  O5* A   A 819     170.069 111.949 -34.012  1.00 32.94      A16S
ATOM  17159  C5* A   A 819     169.760 110.956 -34.984  1.00 32.94      A16S
ATOM  17160  C4* A   A 819     169.386 109.643 -34.352  1.00 32.94      A16S
ATOM  17161  O4* A   A 819     170.523 109.044 -33.692  1.00 32.94      A16S
ATOM  17162  C1* A   A 819     170.098 108.418 -32.521  1.00 32.94      A16S
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ATOM  17163  N9  A   A 819     171.176 108.537 -31.545  1.00 30.64      A16S
ATOM  17164  C4  A   A 819     171.490 107.579 -30.625  1.00 30.64      A16S
ATOM  17165  N3  A   A 819     170.868 106.404 -30.447  1.00 30.64      A16S
ATOM  17166  C2  A   A 819     171.441 105.727 -29.467  1.00 30.64      A16S
ATOM  17167  N1  A   A 819     172.485 106.067 -28.701  1.00 30.64      A16S
ATOM  17168  C6  A   A 819     173.081 107.257 -28.908  1.00 30.64      A16S
ATOM  17169  N6  A   A 819     174.110 107.590 -28.133  1.00 30.64      A16S
ATOM  17170  C5  A   A 819     172.573 108.069 -29.922  1.00 30.64      A16S
ATOM  17171  N7  A   A 819     172.939 109.321 -30.388  1.00 30.64      A16S
ATOM  17172  C8  A   A 819     172.078 109.558 -31.347  1.00 30.64      A16S
ATOM  17173  C2* A   A 819     168.794 109.095 -32.099  1.00 32.94      A16S
ATOM  17174  O2* A   A 819     168.001 108.113 -31.471  1.00 32.94      A16S
ATOM  17175  C3* A   A 819     168.175 109.527 -33.433  1.00 32.94      A16S
ATOM  17176  O3* A   A 819     167.309 108.507 -33.937  1.00 32.94      A16S
ATOM  17177  P   U   A 820     166.182 108.876 -35.026  1.00 21.73      A16S
ATOM  17178  O1P U   A 820     165.520 107.591 -35.342  1.00 43.28      A16S
ATOM  17179  O2P U   A 820     166.733 109.698 -36.126  1.00 43.28      A16S
ATOM  17180  O5* U   A 820     165.169 109.813 -34.233  1.00 21.73      A16S
ATOM  17181  C5* U   A 820     164.135 109.271 -33.358  1.00 21.73      A16S
ATOM  17182  C4* U   A 820     163.023 110.287 -33.169  1.00 21.73      A16S
ATOM  17183  O4* U   A 820     163.559 111.448 -32.482  1.00 21.73      A16S
ATOM  17184  C1* U   A 820     163.313 112.599 -33.251  1.00 21.73      A16S
ATOM  17185  N1  U   A 820     164.411 113.545 -33.038  1.00 43.28      A16S
ATOM  17186  C6  U   A 820     165.632 113.384 -33.631  1.00 43.28      A16S
ATOM  17187  C2  U   A 820     164.168 114.607 -32.205  1.00 43.28      A16S
ATOM  17188  O2  U   A 820     163.093 114.792 -31.668  1.00 43.28      A16S
ATOM  17189  N3  U   A 820     165.230 115.451 -32.018  1.00 43.28      A16S
ATOM  17190  C4  U   A 820     166.477 115.339 -32.568  1.00 43.28      A16S
ATOM  17191  O4  U   A 820     167.352 116.129 -32.236  1.00 43.28      A16S
ATOM  17192  C5  U   A 820     166.646 114.222 -33.431  1.00 43.28      A16S
ATOM  17193  C2* U   A 820     163.123 112.123 -34.687  1.00 21.73      A16S
ATOM  17194  O2* U   A 820     162.344 113.045 -35.404  1.00 21.73      A16S
ATOM  17195  C3* U   A 820     162.401 110.798 -34.475  1.00 21.73      A16S
ATOM  17196  O3* U   A 820     161.008 111.121 -34.333  1.00 21.73      A16S
ATOM  17197  P   G   A 821     159.923 109.976 -33.988  1.00 23.80      A16S
ATOM  17198  O1P G   A 821     158.935 110.641 -33.092  1.00 41.36      A16S
ATOM  17199  O2P G   A 821     160.613 108.733 -33.529  1.00 41.36      A16S
ATOM  17200  O5* G   A 821     159.207 109.679 -35.373  1.00 23.80      A16S
ATOM  17201  C5* G   A 821     159.760 108.726 -36.254  1.00 23.80      A16S
ATOM  17202  C4* G   A 821     158.670 107.945 -36.916  1.00 23.80      A16S
ATOM  17203  O4* G   A 821     157.947 107.132 -35.961  1.00 23.80      A16S
ATOM  17204  C1* G   A 821     156.619 106.957 -36.413  1.00 23.80      A16S
ATOM  17205  N9  G   A 821     155.724 107.384 -35.353  1.00 41.36      A16S
ATOM  17206  C4  G   A 821     154.368 107.222 -35.324  1.00 41.36      A16S
ATOM  17207  N3  G   A 821     153.629 106.613 -36.261  1.00 41.36      A16S
ATOM  17208  C2  G   A 821     152.349 106.619 -35.960  1.00 41.36      A16S
ATOM  17209  N2  G   A 821     151.469 106.037 -36.783  1.00 41.36      A16S
ATOM  17210  N1  G   A 821     151.832 107.190 -34.836  1.00 41.36      A16S
ATOM  17211  C6  G   A 821     152.575 107.838 -33.862  1.00 41.36      A16S
ATOM  17212  O6  G   A 821     152.004 108.353 -32.886  1.00 41.36      A16S
ATOM  17213  C5  G   A 821     153.956 107.818 -34.165  1.00 41.36      A16S
ATOM  17214  N7  G   A 821     155.037 108.331 -33.465  1.00 41.36      A16S
ATOM  17215  C8  G   A 821     156.064 108.045 -34.208  1.00 41.36      A16S
ATOM  17216  C2* G   A 821     156.437 107.807 -37.674  1.00 23.80      A16S
ATOM  17217  O2* G   A 821     156.495 106.999 -38.826  1.00 23.80      A16S
ATOM  17218  C3* G   A 821     157.601 108.780 -37.568  1.00 23.80      A16S
ATOM  17219  O3* G   A 821     158.056 109.218 -38.816  1.00 23.80      A16S
ATOM  17220  P   C   A 822     157.629 110.658 -39.340  1.00 34.13      A16S
ATOM  17221  O1P C   A 822     158.453 110.956 -40.540  1.00 37.62      A16S
ATOM  17222  O2P C   A 822     157.630 111.606 -38.183  1.00 37.62      A16S
ATOM  17223  O5* C   A 822     156.150 110.398 -39.852  1.00 34.13      A16S
ATOM  17224  C5* C   A 822     155.917 109.389 -40.837  1.00 34.13      A16S
ATOM  17225  C4* C   A 822     154.444 109.179 -41.041  1.00 34.13      A16S
ATOM  17226  O4* C   A 822     153.866 108.429 -39.945  1.00 34.13      A16S
ATOM  17227  C1* C   A 822     152.537 108.866 -39.725  1.00 34.13      A16S
ATOM  17228  N1  C   A 822     152.443 109.436 -38.373  1.00 37.62      A16S
ATOM  17229  C6  C   A 822     153.562 109.720 -37.651  1.00 37.62      A16S
ATOM  17230  C2  C   A 822     151.183 109.693 -37.845  1.00 37.62      A16S
ATOM  17231  O2  C   A 822     150.182 109.410 -38.514  1.00 37.62      A16S
ATOM  17232  N3  C   A 822     151.081 110.236 -36.622  1.00 37.62      A16S
ATOM  17233  C4  C   A 822     152.181 110.504 -35.924  1.00 37.62      A16S
ATOM  17234  N4  C   A 822     152.034 111.024 -34.700  1.00 37.62      A16S
ATOM  17235  C5  C   A 822     153.479 110.249 -36.437  1.00 37.62      A16S
ATOM  17236  C2* C   A 822     152.227 109.913 -40.791  1.00 34.13      A16S
ATOM  17237  O2* C   A 822     151.684 109.249 -41.906  1.00 34.13      A16S
ATOM  17238  C3* C   A 822     153.610 110.435 -41.117  1.00 34.13      A16S
ATOM  17239  O3* C   A 822     153.659 110.996 -42.397  1.00 34.13      A16S
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ATOM  17240  P    G   A 823     153.384 112.555 -42.565  1.00 47.23      A16S
ATOM  17241  O1P  G   A 823     153.593 112.890 -44.011  1.00 24.49      A16S
ATOM  17242  O2P  G   A 823     154.159 113.269 -41.510  1.00 24.49      A16S
ATOM  17243  O5*  G   A 823     151.843 112.668 -42.220  1.00 47.23      A16S
ATOM  17244  C5*  G   A 823     150.888 111.995 -43.030  1.00 47.23      A16S
ATOM  17245  C4*  G   A 823     149.505 112.290 -42.546  1.00 47.23      A16S
ATOM  17246  O4*  G   A 823     149.236 111.585 -41.309  1.00 47.23      A16S
ATOM  17247  C1*  G   A 823     148.350 112.351 -40.515  1.00 47.23      A16S
ATOM  17248  N9   G   A 823     148.995 112.658 -39.243  1.00 24.49      A16S
ATOM  17249  C4   G   A 823     148.356 112.898 -38.057  1.00 24.49      A16S
ATOM  17250  N3   G   A 823     147.030 112.879 -37.861  1.00 24.49      A16S
ATOM  17251  C2   G   A 823     146.718 113.159 -36.609  1.00 24.49      A16S
ATOM  17252  N2   G   A 823     145.442 113.169 -36.231  1.00 24.49      A16S
ATOM  17253  N1   G   A 823     147.626 113.444 -35.640  1.00 24.49      A16S
ATOM  17254  C6   G   A 823     148.986 113.471 -35.821  1.00 24.49      A16S
ATOM  17255  O6   G   A 823     149.703 113.750 -34.881  1.00 24.49      A16S
ATOM  17256  C5   G   A 823     149.347 113.160 -37.148  1.00 24.49      A16S
ATOM  17257  N7   G   A 823     150.594 113.074 -37.744  1.00 24.49      A16S
ATOM  17258  C8   G   A 823     150.334 112.777 -38.988  1.00 24.49      A16S
ATOM  17259  C2*  G   A 823     148.026 113.622 -41.297  1.00 47.23      A16S
ATOM  17260  O2*  G   A 823     146.869 113.418 -42.089  1.00 47.23      A16S
ATOM  17261  C3*  G   A 823     149.238 113.737 -42.196  1.00 47.23      A16S
ATOM  17262  O3*  G   A 823     148.970 114.536 -43.321  1.00 47.23      A16S
ATOM  17263  P    C   A 824     149.207 116.116 -43.217  1.00 46.84      A16S
ATOM  17264  O1P  C   A 824     148.935 116.650 -44.574  1.00 35.65      A16S
ATOM  17265  O2P  C   A 824     150.512 116.387 -42.561  1.00 35.65      A16S
ATOM  17266  O5*  C   A 824     148.067 116.600 -42.218  1.00 46.84      A16S
ATOM  17267  C5*  C   A 824     146.687 116.462 -42.592  1.00 46.84      A16S
ATOM  17268  C4*  C   A 824     145.775 116.993 -41.514  1.00 46.84      A16S
ATOM  17269  O4*  C   A 824     145.786 116.126 -40.359  1.00 46.84      A16S
ATOM  17270  C1*  C   A 824     145.547 116.889 -39.198  1.00 46.84      A16S
ATOM  17271  N1   C   A 824     146.703 116.765 -38.314  1.00 35.65      A16S
ATOM  17272  C6   C   A 824     147.955 116.568 -38.819  1.00 35.65      A16S
ATOM  17273  C2   C   A 824     146.505 116.867 -36.939  1.00 35.65      A16S
ATOM  17274  O2   C   A 824     145.352 117.041 -36.509  1.00 35.65      A16S
ATOM  17275  N3   C   A 824     147.568 116.778 -36.117  1.00 35.65      A16S
ATOM  17276  C4   C   A 824     148.787 116.609 -36.623  1.00 35.65      A16S
ATOM  17277  N4   C   A 824     149.808 116.559 -35.782  1.00 35.65      A16S
ATOM  17278  C5   C   A 824     149.014 116.490 -38.016  1.00 35.65      A16S
ATOM  17279  C2*  C   A 824     145.359 118.338 -39.625  1.00 46.84      A16S
ATOM  17280  O2*  C   A 824     143.979 118.584 -39.792  1.00 46.84      A16S
ATOM  17281  C3*  C   A 824     146.095 118.359 -40.953  1.00 46.84      A16S
ATOM  17282  O3*  C   A 824     145.626 119.399 -41.777  1.00 46.84      A16S
ATOM  17283  P    G   A 825     146.189 120.879 -41.549  1.00 33.88      A16S
ATOM  17284  O1P  G   A 825     145.641 121.693 -42.662  1.00 36.34      A16S
ATOM  17285  O2P  G   A 825     147.650 120.786 -41.360  1.00 36.34      A16S
ATOM  17286  O5*  G   A 825     145.534 121.354 -40.176  1.00 33.88      A16S
ATOM  17287  C5*  G   A 825     144.117 121.565 -40.095  1.00 33.88      A16S
ATOM  17288  C4*  G   A 825     143.730 122.030 -38.722  1.00 33.88      A16S
ATOM  17289  O4*  G   A 825     143.986 120.977 -37.769  1.00 33.88      A16S
ATOM  17290  C1*  G   A 825     144.378 121.544 -36.533  1.00 33.88      A16S
ATOM  17291  N9   G   A 825     145.719 121.070 -36.207  1.00 36.34      A16S
ATOM  17292  C4   G   A 825     146.347 121.160 -34.985  1.00 36.34      A16S
ATOM  17293  N3   G   A 825     145.821 121.672 -33.857  1.00 36.34      A16S
ATOM  17294  C2   G   A 825     146.673 121.632 -32.851  1.00 36.34      A16S
ATOM  17295  N2   G   A 825     146.317 122.100 -31.655  1.00 36.34      A16S
ATOM  17296  N1   G   A 825     147.935 121.130 -32.945  1.00 36.34      A16S
ATOM  17297  C6   G   A 825     148.496 120.599 -34.096  1.00 36.34      A16S
ATOM  17298  O6   G   A 825     149.649 120.174 -34.074  1.00 36.34      A16S
ATOM  17299  C5   G   A 825     147.596 120.634 -35.178  1.00 36.34      A16S
ATOM  17300  N7   G   A 825     147.752 120.204 -36.487  1.00 36.34      A16S
ATOM  17301  C8   G   A 825     146.612 120.476 -37.056  1.00 36.34      A16S
ATOM  17302  C2*  G   A 825     144.356 123.064 -36.697  1.00 33.88      A16S
ATOM  17303  O2*  G   A 825     143.117 123.588 -36.289  1.00 33.88      A16S
ATOM  17304  C3*  G   A 825     144.511 123.214 -38.194  1.00 33.88      A16S
ATOM  17305  O3*  G   A 825     143.985 124.454 -38.620  1.00 33.88      A16S
ATOM  17306  P    C   A 826     144.946 125.737 -38.679  1.00 32.75      A16S
ATOM  17307  O1P  C   A 826     144.109 126.823 -39.240  1.00 41.55      A16S
ATOM  17308  O2P  C   A 826     146.207 125.352 -39.372  1.00 41.55      A16S
ATOM  17309  O5*  C   A 826     145.275 126.056 -37.148  1.00 32.75      A16S
ATOM  17310  C5*  C   A 826     144.241 126.513 -36.266  1.00 32.75      A16S
ATOM  17311  C4*  C   A 826     144.730 126.569 -34.840  1.00 32.75      A16S
ATOM  17312  O4*  C   A 826     145.162 125.255 -34.418  1.00 32.75      A16S
ATOM  17313  C1*  C   A 826     146.216 125.378 -33.475  1.00 32.75      A16S
ATOM  17314  N1   C   A 826     147.411 124.693 -33.999  1.00 41.55      A16S
ATOM  17315  C6   C   A 826     147.482 124.308 -35.309  1.00 41.55      A16S
ATOM  17316  C2   C   A 826     148.495 124.463 -33.132  1.00 41.55      A16S
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ATOM  17317  O2  C   A 826     148.395 124.781 -31.933  1.00 41.55      A16S
ATOM  17318  N3  C   A 826     149.615 123.899 -33.624  1.00 41.55      A16S
ATOM  17319  C4  C   A 826     149.675 123.553 -34.910  1.00 41.55      A16S
ATOM  17320  N4  C   A 826     150.803 123.019 -35.356  1.00 41.55      A16S
ATOM  17321  C5  C   A 826     148.580 123.742 -35.797  1.00 41.55      A16S
ATOM  17322  C2* C   A 826     146.485 126.867 -33.266  1.00 32.75      A16S
ATOM  17323  O2* C   A 826     145.845 127.287 -32.083  1.00 32.75      A16S
ATOM  17324  C3* C   A 826     145.910 127.475 -34.541  1.00 32.75      A16S
ATOM  17325  O3* C   A 826     145.491 128.812 -34.319  1.00 32.75      A16S
ATOM  17326  P   U   A 827     146.427 130.026 -34.792  1.00 26.64      A16S
ATOM  17327  O1P U   A 827     145.656 131.278 -34.600  1.00 50.37      A16S
ATOM  17328  O2P U   A 827     146.948 129.679 -36.142  1.00 50.37      A16S
ATOM  17329  O5* U   A 827     147.632 130.059 -33.748  1.00 26.64      A16S
ATOM  17330  C5* U   A 827     147.491 130.776 -32.518  1.00 26.64      A16S
ATOM  17331  C4* U   A 827     148.685 130.556 -31.624  1.00 26.64      A16S
ATOM  17332  O4* U   A 827     148.958 129.139 -31.513  1.00 26.64      A16S
ATOM  17333  C1* U   A 827     150.345 128.928 -31.320  1.00 26.64      A16S
ATOM  17334  N1  U   A 827     150.839 128.071 -32.413  1.00 50.37      A16S
ATOM  17335  C6  U   A 827     150.012 127.719 -33.449  1.00 50.37      A16S
ATOM  17336  C2  U   A 827     152.148 127.615 -32.367  1.00 50.37      A16S
ATOM  17337  O2  U   A 827     152.933 127.931 -31.499  1.00 50.37      A16S
ATOM  17338  N3  U   A 827     152.505 126.781 -33.395  1.00 50.37      A16S
ATOM  17339  C4  U   A 827     151.714 126.379 -34.455  1.00 50.37      A16S
ATOM  17340  O4  U   A 827     152.177 125.633 -35.322  1.00 50.37      A16S
ATOM  17341  C5  U   A 827     150.394 126.914 -34.442  1.00 50.37      A16S
ATOM  17342  C2* U   A 827     150.995 130.309 -31.252  1.00 26.64      A16S
ATOM  17343  O2* U   A 827     150.990 130.735 -29.904  1.00 26.64      A16S
ATOM  17344  C3* U   A 827     150.013 131.145 -32.048  1.00 26.64      A16S
ATOM  17345  O3* U   A 827     150.115 132.489 -31.668  1.00 26.64      A16S
ATOM  17346  P   A   A 828     150.313 133.601 -32.797  1.00 44.26      A16S
ATOM  17347  O1P A   A 828     150.393 134.896 -32.063  1.00 60.09      A16S
ATOM  17348  O2P A   A 828     149.285 133.400 -33.858  1.00 60.09      A16S
ATOM  17349  O5* A   A 828     151.735 133.297 -33.455  1.00 44.26      A16S
ATOM  17350  C5* A   A 828     152.959 133.573 -32.747  1.00 44.26      A16S
ATOM  17351  C4* A   A 828     153.356 135.015 -32.937  1.00 44.26      A16S
ATOM  17352  O4* A   A 828     154.363 135.345 -31.959  1.00 44.26      A16S
ATOM  17353  C1* A   A 828     155.222 136.340 -32.478  1.00 44.26      A16S
ATOM  17354  N9  A   A 828     156.566 135.783 -32.558  1.00 60.09      A16S
ATOM  17355  C4  A   A 828     157.709 136.347 -32.059  1.00 60.09      A16S
ATOM  17356  N3  A   A 828     157.819 137.502 -31.385  1.00 60.09      A16S
ATOM  17357  C2  A   A 828     159.087 137.729 -31.048  1.00 60.09      A16S
ATOM  17358  N1  A   A 828     160.172 136.994 -31.296  1.00 60.09      A16S
ATOM  17359  C6  A   A 828     160.027 135.843 -31.985  1.00 60.09      A16S
ATOM  17360  N6  A   A 828     161.114 135.115 -32.252  1.00 60.09      A16S
ATOM  17361  C5  A   A 828     158.730 135.483 -32.389  1.00 60.09      A16S
ATOM  17362  N7  A   A 828     158.238 134.386 -33.080  1.00 60.09      A16S
ATOM  17363  C8  A   A 828     156.953 134.612 -33.151  1.00 60.09      A16S
ATOM  17364  C2* A   A 828     154.709 136.708 -33.862  1.00 44.26      A16S
ATOM  17365  O2* A   A 828     153.821 137.799 -33.753  1.00 44.26      A16S
ATOM  17366  C3* A   A 828     153.975 135.441 -34.260  1.00 44.26      A16S
ATOM  17367  O3* A   A 828     153.034 135.739 -35.278  1.00 44.26      A16S
ATOM  17368  P   G   A 829     153.554 136.029 -36.783  1.00 40.51      A16S
ATOM  17369  O1P G   A 829     152.431 136.649 -37.539  1.00 59.36      A16S
ATOM  17370  O2P G   A 829     154.217 134.811 -37.326  1.00 59.36      A16S
ATOM  17371  O5* G   A 829     154.662 137.151 -36.588  1.00 40.51      A16S
ATOM  17372  C5* G   A 829     155.688 137.357 -37.561  1.00 40.51      A16S
ATOM  17373  C4* G   A 829     156.784 138.185 -36.960  1.00 40.51      A16S
ATOM  17374  O4* G   A 829     157.235 137.545 -35.745  1.00 40.51      A16S
ATOM  17375  C1* G   A 829     158.645 137.577 -35.680  1.00 40.51      A16S
ATOM  17376  N9  G   A 829     159.115 136.207 -35.884  1.00 59.36      A16S
ATOM  17377  C4  G   A 829     160.391 135.737 -35.689  1.00 59.36      A16S
ATOM  17378  N3  G   A 829     161.440 136.460 -35.267  1.00 59.36      A16S
ATOM  17379  C2  G   A 829     162.525 135.738 -35.181  1.00 59.36      A16S
ATOM  17380  N2  G   A 829     163.655 136.301 -34.776  1.00 59.36      A16S
ATOM  17381  N1  G   A 829     162.586 134.412 -35.487  1.00 59.36      A16S
ATOM  17382  C6  G   A 829     161.522 133.645 -35.933  1.00 59.36      A16S
ATOM  17383  O6  G   A 829     161.687 132.451 -36.200  1.00 59.36      A16S
ATOM  17384  C5  G   A 829     160.346 134.403 -36.024  1.00 59.36      A16S
ATOM  17385  N7  G   A 829     159.067 134.033 -36.420  1.00 59.36      A16S
ATOM  17386  C8  G   A 829     158.371 135.131 -36.322  1.00 59.36      A16S
ATOM  17387  C2* G   A 829     159.117 138.509 -36.794  1.00 40.51      A16S
ATOM  17388  O2* G   A 829     159.133 139.832 -36.315  1.00 40.51      A16S
ATOM  17389  C3* G   A 829     158.018 138.319 -37.821  1.00 40.51      A16S
ATOM  17390  O3* G   A 829     157.896 139.434 -38.672  1.00 40.51      A16S
ATOM  17391  P   G   A 830     158.706 139.459 -40.053  1.00 45.80      A16S
ATOM  17392  O1P G   A 830     158.515 140.813 -40.628  1.00 50.21      A16S
ATOM  17393  O2P G   A 830     158.336 138.257 -40.852  1.00 50.21      A16S
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ATOM	17394	O5*	G	A	830	160.224	139.353	-39.596	1.00	45.80	A16S
ATOM	17395	C5*	G	A	830	160.835	140.441	-38.909	1.00	45.80	A16S
ATOM	17396	C4*	G	A	830	162.235	140.080	-38.505	1.00	45.80	A16S
ATOM	17397	O4*	G	A	830	162.200	138.917	-37.639	1.00	45.80	A16S
ATOM	17398	C1*	G	A	830	163.406	138.181	-37.778	1.00	45.80	A16S
ATOM	17399	N9	G	A	830	163.074	136.841	-38.243	1.00	50.21	A16S
ATOM	17400	C4	G	A	830	163.935	135.772	-38.318	1.00	50.21	A16S
ATOM	17401	N3	G	A	830	165.225	135.768	-37.932	1.00	50.21	A16S
ATOM	17402	C2	G	A	830	165.797	134.601	-38.145	1.00	50.21	A16S
ATOM	17403	N2	G	A	830	167.075	134.419	-37.806	1.00	50.21	A16S
ATOM	17404	N1	G	A	830	165.159	133.526	-38.701	1.00	50.21	A16S
ATOM	17405	C6	G	A	830	163.837	133.510	-39.116	1.00	50.21	A16S
ATOM	17406	O6	G	A	830	163.365	132.493	-39.635	1.00	50.21	A16S
ATOM	17407	C5	G	A	830	163.203	134.753	-38.879	1.00	50.21	A16S
ATOM	17408	N7	G	A	830	161.900	135.162	-39.131	1.00	50.21	A16S
ATOM	17409	C8	G	A	830	161.868	136.403	-38.729	1.00	50.21	A16S
ATOM	17410	C2*	G	A	830	164.254	138.905	-38.820	1.00	45.80	A16S
ATOM	17411	O2*	G	A	830	165.163	139.773	-38.172	1.00	45.80	A16S
ATOM	17412	C3*	G	A	830	163.188	139.652	-39.601	1.00	45.80	A16S
ATOM	17413	O3*	G	A	830	163.712	140.729	-40.334	1.00	45.80	A16S
ATOM	17414	P	U	A	831	163.935	140.553	-41.915	1.00	48.81	A16S
ATOM	17415	O1P	U	A	831	164.492	141.844	-42.396	1.00	59.88	A16S
ATOM	17416	O2P	U	A	831	162.704	140.007	-42.567	1.00	59.88	A16S
ATOM	17417	O5*	U	A	831	165.088	139.456	-41.967	1.00	48.81	A16S
ATOM	17418	C5*	U	A	831	166.407	139.774	-41.489	1.00	48.81	A16S
ATOM	17419	C4*	U	A	831	167.346	138.623	-41.717	1.00	48.81	A16S
ATOM	17420	O4*	U	A	831	166.974	137.529	-40.848	1.00	48.81	A16S
ATOM	17421	C1*	U	A	831	167.196	136.297	-41.505	1.00	48.81	A16S
ATOM	17422	N1	U	A	831	165.903	135.621	-41.699	1.00	59.88	A16S
ATOM	17423	C6	U	A	831	164.749	136.326	-41.932	1.00	59.88	A16S
ATOM	17424	C2	U	A	831	165.892	134.246	-41.663	1.00	59.88	A16S
ATOM	17425	O2	U	A	831	166.883	133.589	-41.448	1.00	59.88	A16S
ATOM	17426	N3	U	A	831	164.675	133.664	-41.889	1.00	59.88	A16S
ATOM	17427	C4	U	A	831	163.485	134.303	-42.138	1.00	59.88	A16S
ATOM	17428	O4	U	A	831	162.456	133.636	-42.285	1.00	59.88	A16S
ATOM	17429	C5	U	A	831	163.573	135.731	-42.150	1.00	59.88	A16S
ATOM	17430	C2*	U	A	831	167.845	136.613	-42.848	1.00	48.81	A16S
ATOM	17431	O2*	U	A	831	169.253	136.570	-42.718	1.00	48.81	A16S
ATOM	17432	C3*	U	A	831	167.324	138.015	-43.106	1.00	48.81	A16S
ATOM	17433	O3*	U	A	831	168.094	138.716	-44.063	1.00	48.81	A16S
ATOM	17434	P	C	A	832	167.731	138.560	-45.622	1.00	62.93	A16S
ATOM	17435	O1P	C	A	832	168.381	139.693	-46.328	1.00	58.76	A16S
ATOM	17436	O2P	C	A	832	166.268	138.347	-45.775	1.00	58.76	A16S
ATOM	17437	O5*	C	A	832	168.459	137.203	-46.035	1.00	62.93	A16S
ATOM	17438	C5*	C	A	832	169.891	137.087	-45.928	1.00	62.93	A16S
ATOM	17439	C4*	C	A	832	170.344	135.677	-46.219	1.00	62.93	A16S
ATOM	17440	O4*	C	A	832	169.901	134.783	-45.166	1.00	62.93	A16S
ATOM	17441	C1*	C	A	832	169.656	133.498	-45.715	1.00	62.93	A16S
ATOM	17442	N1	C	A	832	168.239	133.148	-45.524	1.00	58.76	A16S
ATOM	17443	C6	C	A	832	167.279	134.115	-45.439	1.00	58.76	A16S
ATOM	17444	C2	C	A	832	167.882	131.786	-45.457	1.00	58.76	A16S
ATOM	17445	O2	C	A	832	168.775	130.916	-45.513	1.00	58.76	A16S
ATOM	17446	N3	C	A	832	166.582	131.453	-45.333	1.00	58.76	A16S
ATOM	17447	C4	C	A	832	165.658	132.406	-45.264	1.00	58.76	A16S
ATOM	17448	N4	C	A	832	164.390	132.027	-45.143	1.00	58.76	A16S
ATOM	17449	C5	C	A	832	165.992	133.791	-45.314	1.00	58.76	A16S
ATOM	17450	C2*	C	A	832	169.970	133.561	-47.208	1.00	62.93	A16S
ATOM	17451	O2*	C	A	832	171.278	133.086	-47.447	1.00	62.93	A16S
ATOM	17452	C3*	C	A	832	169.814	135.045	-47.491	1.00	62.93	A16S
ATOM	17453	O3*	C	A	832	170.512	135.423	-48.659	1.00	62.93	A16S
ATOM	17454	P	U	A	833	169.763	135.325	-50.081	1.00	46.68	A16S
ATOM	17455	O1P	U	A	833	170.703	135.839	-51.117	1.00	55.33	A16S
ATOM	17456	O2P	U	A	833	168.400	135.925	-49.958	1.00	55.33	A16S
ATOM	17457	O5*	U	A	833	169.569	133.760	-50.320	1.00	46.68	A16S
ATOM	17458	C5*	U	A	833	170.709	132.897	-50.431	1.00	46.68	A16S
ATOM	17459	C4*	U	A	833	170.285	131.451	-50.439	1.00	46.68	A16S
ATOM	17460	O4*	U	A	833	169.599	131.140	-49.201	1.00	46.68	A16S
ATOM	17461	C1*	U	A	833	168.583	130.181	-49.450	1.00	46.68	A16S
ATOM	17462	N1	U	A	833	167.281	130.758	-49.078	1.00	55.33	A16S
ATOM	17463	C6	U	A	833	167.093	132.118	-49.006	1.00	55.33	A16S
ATOM	17464	C2	U	A	833	166.241	129.890	-48.834	1.00	55.33	A16S
ATOM	17465	O2	U	A	833	166.372	128.686	-48.829	1.00	55.33	A16S
ATOM	17466	N3	U	A	833	165.038	130.488	-48.585	1.00	55.33	A16S
ATOM	17467	C4	U	A	833	164.776	131.835	-48.537	1.00	55.33	A16S
ATOM	17468	O4	U	A	833	163.610	132.219	-48.425	1.00	55.33	A16S
ATOM	17469	C5	U	A	833	165.911	132.669	-48.749	1.00	55.33	A16S
ATOM	17470	C2*	U	A	833	168.639	129.824	-50.939	1.00	46.68	A16S

ATOM	17471	O2*	U	A	833	169.377	128.631	-51.114	1.00	46.68	A16S
ATOM	17472	C3*	U	A	833	169.312	131.056	-51.526	1.00	46.68	A16S
ATOM	17473	O3*	U	A	833	169.974	130.787	-52.739	1.00	46.68	A16S
ATOM	17474	P	C	A	834	169.203	131.026	-54.124	1.00	41.19	A16S
ATOM	17475	O1P	C	A	834	170.219	131.229	-55.186	1.00	56.29	A16S
ATOM	17476	O2P	C	A	834	168.165	132.055	-53.906	1.00	56.29	A16S
ATOM	17477	O5*	C	A	834	168.450	129.649	-54.394	1.00	41.19	A16S
ATOM	17478	C5*	C	A	834	169.189	128.441	-54.669	1.00	41.19	A16S
ATOM	17479	C4*	C	A	834	168.250	127.258	-54.765	1.00	41.19	A16S
ATOM	17480	O4*	C	A	834	167.651	126.986	-53.472	1.00	41.19	A16S
ATOM	17481	C1*	C	A	834	166.311	126.564	-53.653	1.00	41.19	A16S
ATOM	17482	N1	C	A	834	165.433	127.529	-52.986	1.00	56.29	A16S
ATOM	17483	C6	C	A	834	165.900	128.748	-52.590	1.00	56.29	A16S
ATOM	17484	C2	C	A	834	164.103	127.183	-52.773	1.00	56.29	A16S
ATOM	17485	O2	C	A	834	163.710	126.063	-53.129	1.00	56.29	A16S
ATOM	17486	N3	C	A	834	163.278	128.071	-52.191	1.00	56.29	A16S
ATOM	17487	C4	C	A	834	163.738	129.266	-51.826	1.00	56.29	A16S
ATOM	17488	N4	C	A	834	162.881	130.125	-51.284	1.00	56.29	A16S
ATOM	17489	C5	C	A	834	165.095	129.637	-52.011	1.00	56.29	A16S
ATOM	17490	C2*	C	A	834	166.017	126.518	-55.154	1.00	41.19	A16S
ATOM	17491	O2*	C	A	834	166.116	125.207	-55.669	1.00	41.19	A16S
ATOM	17492	C3*	C	A	834	167.071	127.466	-55.696	1.00	41.19	A16S
ATOM	17493	O3*	C	A	834	167.388	127.185	-57.035	1.00	41.19	A16S
ATOM	17494	P	U	A	835	166.657	128.007	-58.179	1.00	41.19	A16S
ATOM	17495	O1P	U	A	835	167.215	127.592	-59.476	1.00	58.63	A16S
ATOM	17496	O2P	U	A	835	166.724	129.434	-57.772	1.00	58.63	A16S
ATOM	17497	O5*	U	A	835	165.158	127.487	-58.088	1.00	41.19	A16S
ATOM	17498	C5*	U	A	835	164.804	126.190	-58.598	1.00	41.19	A16S
ATOM	17499	C4*	U	A	835	163.315	125.949	-58.467	1.00	41.19	A16S
ATOM	17500	O4*	U	A	835	162.952	125.907	-57.061	1.00	41.19	A16S
ATOM	17501	C1*	U	A	835	161.639	126.417	-56.891	1.00	41.19	A16S
ATOM	17502	N1	U	A	835	161.714	127.608	-56.039	1.00	58.63	A16S
ATOM	17503	C6	U	A	835	162.888	128.281	-55.852	1.00	58.63	A16S
ATOM	17504	C2	U	A	835	160.551	128.033	-55.443	1.00	58.63	A16S
ATOM	17505	O2	U	A	835	159.493	127.448	-55.572	1.00	58.63	A16S
ATOM	17506	N3	U	A	835	160.666	129.165	-54.686	1.00	58.63	A16S
ATOM	17507	C4	U	A	835	161.806	129.893	-54.463	1.00	58.63	A16S
ATOM	17508	O4	U	A	835	161.754	130.895	-53.749	1.00	58.63	A16S
ATOM	17509	C5	U	A	835	162.973	129.379	-55.106	1.00	58.63	A16S
ATOM	17510	C2*	U	A	835	161.095	126.793	-58.266	1.00	41.19	A16S
ATOM	17511	O2*	U	A	835	160.239	125.773	-58.767	1.00	41.19	A16S
ATOM	17512	C3*	U	A	835	162.387	127.005	-59.049	1.00	41.19	A16S
ATOM	17513	O3*	U	A	835	162.184	126.916	-60.445	1.00	41.19	A16S
ATOM	17514	P	G	A	836	161.698	128.217	-61.231	1.00	68.65	A16S
ATOM	17515	O1P	G	A	836	161.721	127.884	-62.673	1.00	59.32	A16S
ATOM	17516	O2P	G	A	836	162.531	129.327	-60.717	1.00	59.32	A16S
ATOM	17517	O5*	G	A	836	160.189	128.436	-60.747	1.00	68.65	A16S
ATOM	17518	C5*	G	A	836	159.142	127.624	-61.306	1.00	68.65	A16S
ATOM	17519	C4*	G	A	836	157.754	127.999	-60.793	1.00	68.65	A16S
ATOM	17520	O4*	G	A	836	157.622	127.773	-59.366	1.00	68.65	A16S
ATOM	17521	C1*	G	A	836	156.477	128.471	-58.892	1.00	68.65	A16S
ATOM	17522	N9	G	A	836	156.878	129.443	-57.887	1.00	59.32	A16S
ATOM	17523	C4	G	A	836	156.047	130.058	-56.980	1.00	59.32	A16S
ATOM	17524	N3	G	A	836	154.724	129.834	-56.838	1.00	59.32	A16S
ATOM	17525	C2	G	A	836	154.195	130.586	-55.888	1.00	59.32	A16S
ATOM	17526	N2	G	A	836	152.887	130.477	-55.608	1.00	59.32	A16S
ATOM	17527	N1	G	A	836	154.910	131.497	-55.143	1.00	59.32	A16S
ATOM	17528	C6	G	A	836	156.274	131.746	-55.280	1.00	59.32	A16S
ATOM	17529	O6	G	A	836	156.831	132.593	-54.562	1.00	59.32	A16S
ATOM	17530	C5	G	A	836	156.850	130.936	-56.286	1.00	59.32	A16S
ATOM	17531	N7	G	A	836	158.162	130.858	-56.729	1.00	59.32	A16S
ATOM	17532	C8	G	A	836	158.132	129.958	-57.676	1.00	59.32	A16S
ATOM	17533	C2*	G	A	836	155.904	129.244	-60.072	1.00	68.65	A16S
ATOM	17534	O2*	G	A	836	154.877	128.473	-60.679	1.00	68.65	A16S
ATOM	17535	C3*	G	A	836	157.124	129.375	-60.972	1.00	68.65	A16S
ATOM	17536	O3*	G	A	836	156.658	129.688	-62.270	1.00	68.65	A16S
ATOM	17537	P	G	A	837	156.409	131.232	-62.660	1.00	57.23	A16S
ATOM	17538	O1P	G	A	837	156.062	131.207	-64.096	1.00	65.98	A16S
ATOM	17539	O2P	G	A	837	157.552	132.049	-62.199	1.00	65.98	A16S
ATOM	17540	O5*	G	A	837	155.136	131.690	-61.816	1.00	57.23	A16S
ATOM	17541	C5*	G	A	837	153.798	131.274	-62.186	1.00	57.23	A16S
ATOM	17542	C4*	G	A	837	152.771	131.902	-61.262	1.00	57.23	A16S
ATOM	17543	O4*	G	A	837	153.095	131.539	-59.895	1.00	57.23	A16S
ATOM	17544	C1*	G	A	837	152.857	132.631	-59.032	1.00	57.23	A16S
ATOM	17545	N9	G	A	837	154.144	133.092	-58.533	1.00	65.98	A16S
ATOM	17546	C4	G	A	837	154.352	134.023	-57.550	1.00	65.98	A16S
ATOM	17547	N3	G	A	837	153.396	134.652	-56.838	1.00	65.98	A16S

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ATOM  17548  C2  G   A 837     153.909 135.506 -55.973  1.00 65.98      A16S
ATOM  17549  N2  G   A 837     153.106 136.203 -55.173  1.00 65.98      A16S
ATOM  17550  N1  G   A 837     155.247 135.736 -55.823  1.00 65.98      A16S
ATOM  17551  C6  G   A 837     156.250 135.104 -56.548  1.00 65.98      A16S
ATOM  17552  O6  G   A 837     157.439 135.389 -56.340  1.00 65.98      A16S
ATOM  17553  C5  G   A 837     155.714 134.174 -57.475  1.00 65.98      A16S
ATOM  17554  N7  G   A 837     156.352 133.336 -58.375  1.00 65.98      A16S
ATOM  17555  C8  G   A 837     155.383 132.710 -58.975  1.00 65.98      A16S
ATOM  17556  C2* G   A 837     152.184 133.726 -59.854  1.00 57.23      A16S
ATOM  17557  O2* G   A 837     150.789 133.573 -59.710  1.00 57.23      A16S
ATOM  17558  C3* G   A 837     152.711 133.425 -61.254  1.00 57.23      A16S
ATOM  17559  O3* G   A 837     151.864 133.934 -62.288  1.00 57.23      A16S
ATOM  17560  P   G   A 838     152.254 135.299 -63.042  1.00 83.86      A16S
ATOM  17561  O1P G   A 838     151.442 135.360 -64.283  1.00 81.09      A16S
ATOM  17562  O2P G   A 838     153.727 135.379 -63.130  1.00 81.09      A16S
ATOM  17563  O5* G   A 838     151.760 136.445 -62.054  1.00 83.86      A16S
ATOM  17564  C5* G   A 838     150.358 136.619 -61.775  1.00 83.86      A16S
ATOM  17565  C4* G   A 838     150.166 137.434 -60.516  1.00 83.86      A16S
ATOM  17566  O4* G   A 838     150.933 136.816 -59.453  1.00 83.86      A16S
ATOM  17567  C1* G   A 838     151.457 137.816 -58.599  1.00 83.86      A16S
ATOM  17568  N9  G   A 838     152.911 137.723 -58.610  1.00 81.09      A16S
ATOM  17569  C4  G   A 838     153.766 138.426 -57.805  1.00 81.09      A16S
ATOM  17570  N3  G   A 838     153.407 139.330 -56.876  1.00 81.09      A16S
ATOM  17571  C2  G   A 838     154.455 139.840 -56.254  1.00 81.09      A16S
ATOM  17572  N2  G   A 838     154.277 140.759 -55.298  1.00 81.09      A16S
ATOM  17573  N1  G   A 838     155.754 139.487 -56.521  1.00 81.09      A16S
ATOM  17574  C6  G   A 838     156.147 138.554 -57.473  1.00 81.09      A16S
ATOM  17575  O6  G   A 838     157.352 138.298 -57.629  1.00 81.09      A16S
ATOM  17576  C5  G   A 838     155.028 138.004 -58.155  1.00 81.09      A16S
ATOM  17577  N7  G   A 838     154.968 137.064 -59.173  1.00 81.09      A16S
ATOM  17578  C8  G   A 838     153.693 136.929 -59.412  1.00 81.09      A16S
ATOM  17579  C2* G   A 838     150.971 139.173 -59.101  1.00 83.86      A16S
ATOM  17580  O2* G   A 838     149.841 139.572 -58.355  1.00 83.86      A16S
ATOM  17581  C3* G   A 838     150.662 138.875 -60.565  1.00 83.86      A16S
ATOM  17582  O3* G   A 838     149.660 139.768 -61.045  1.00 83.86      A16S
ATOM  17583  P   U   A 839     149.991 140.780 -62.249  1.00126.28      A16S
ATOM  17584  O1P U   A 839     148.995 141.880 -62.167  1.00144.72      A16S
ATOM  17585  O2P U   A 839     150.098 139.978 -63.494  1.00144.72      A16S
ATOM  17586  O5* U   A 839     151.427 141.390 -61.923  1.00126.28      A16S
ATOM  17587  C5* U   A 839     151.798 141.784 -60.588  1.00126.28      A16S
ATOM  17588  C4* U   A 839     151.457 143.233 -60.351  1.00126.28      A16S
ATOM  17589  O4* U   A 839     150.015 143.350 -60.237  1.00126.28      A16S
ATOM  17590  C1* U   A 839     149.690 144.346 -59.284  1.00126.28      A16S
ATOM  17591  N1  U   A 839     148.762 143.764 -58.288  1.00144.72      A16S
ATOM  17592  C6  U   A 839     147.566 143.221 -58.709  1.00144.72      A16S
ATOM  17593  C2  U   A 839     149.090 143.781 -56.920  1.00144.72      A16S
ATOM  17594  O2  U   A 839     150.136 144.224 -56.473  1.00144.72      A16S
ATOM  17595  N3  U   A 839     148.133 143.251 -56.091  1.00144.72      A16S
ATOM  17596  C4  U   A 839     146.920 142.716 -56.454  1.00144.72      A16S
ATOM  17597  O4  U   A 839     146.149 142.327 -55.575  1.00144.72      A16S
ATOM  17598  C5  U   A 839     146.662 142.712 -57.864  1.00144.72      A16S
ATOM  17599  C2* U   A 839     151.001 144.953 -58.770  1.00126.28      A16S
ATOM  17600  O2* U   A 839     151.304 146.141 -59.475  1.00126.28      A16S
ATOM  17601  C3* U   A 839     151.995 143.835 -59.057  1.00126.28      A16S
ATOM  17602  O3* U   A 839     153.327 144.338 -59.205  1.00126.28      A16S
ATOM  17603  P   C   A 840     154.146 144.849 -57.910  1.00201.27      A16S
ATOM  17604  O1P C   A 840     153.262 144.734 -56.719  1.00148.50      A16S
ATOM  17605  O2P C   A 840     154.740 146.166 -58.255  1.00148.50      A16S
ATOM  17606  O5* C   A 840     155.330 143.793 -57.750  1.00201.27      A16S
ATOM  17607  C5* C   A 840     156.340 143.932 -56.716  1.00201.27      A16S
ATOM  17608  C4* C   A 840     157.645 143.323 -57.185  1.00201.27      A16S
ATOM  17609  O4* C   A 840     157.358 141.951 -57.551  1.00201.27      A16S
ATOM  17610  C1* C   A 840     157.998 141.629 -58.767  1.00201.27      A16S
ATOM  17611  N1  C   A 840     156.957 141.210 -59.724  1.00148.50      A16S
ATOM  17612  C6  C   A 840     155.869 142.002 -59.960  1.00148.50      A16S
ATOM  17613  C2  C   A 840     157.085 139.972 -60.377  1.00148.50      A16S
ATOM  17614  O2  C   A 840     158.099 139.277 -60.176  1.00148.50      A16S
ATOM  17615  N3  C   A 840     156.100 139.565 -61.213  1.00148.50      A16S
ATOM  17616  C4  C   A 840     155.032 140.341 -61.415  1.00148.50      A16S
ATOM  17617  N4  C   A 840     154.074 139.891 -62.230  1.00148.50      A16S
ATOM  17618  C5  C   A 840     154.895 141.611 -60.787  1.00148.50      A16S
ATOM  17619  C2* C   A 840     158.861 142.822 -59.191  1.00201.27      A16S
ATOM  17620  O2* C   A 840     160.205 142.597 -58.809  1.00201.27      A16S
ATOM  17621  C3* C   A 840     158.213 143.985 -58.440  1.00201.27      A16S
ATOM  17622  O3* C   A 840     159.240 144.974 -58.193  1.00201.27      A16S
ATOM  17623  P   U   A 841     159.268 145.839 -56.824  1.00201.30      A16S
ATOM  17624  O1P U   A 841     157.887 146.153 -56.379  1.00201.30      A16S
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ATOM  17625  O2P U   A 841     160.235 146.948 -57.028  1.00201.30      A16S
ATOM  17626  O5* U   A 841     159.925 144.840 -55.771  1.00201.30      A16S
ATOM  17627  C5* U   A 841     160.089 145.207 -54.388  1.00201.30      A16S
ATOM  17628  C4* U   A 841     161.557 145.233 -54.030  1.00201.30      A16S
ATOM  17629  O4* U   A 841     162.169 146.420 -54.605  1.00201.30      A16S
ATOM  17630  C1* U   A 841     163.184 146.903 -53.737  1.00201.30      A16S
ATOM  17631  N1  U   A 841     162.906 148.308 -53.387  1.00201.30      A16S
ATOM  17632  C6  U   A 841     161.654 148.866 -53.553  1.00201.30      A16S
ATOM  17633  C2  U   A 841     163.958 149.066 -52.880  1.00201.30      A16S
ATOM  17634  O2  U   A 841     165.082 148.615 -52.703  1.00201.30      A16S
ATOM  17635  N3  U   A 841     163.644 150.370 -52.586  1.00201.30      A16S
ATOM  17636  C4  U   A 841     162.420 150.987 -52.736  1.00201.30      A16S
ATOM  17637  O4  U   A 841     162.305 152.180 -52.448  1.00201.30      A16S
ATOM  17638  C5  U   A 841     161.384 150.142 -53.253  1.00201.30      A16S
ATOM  17639  C2* U   A 841     163.252 145.976 -52.522  1.00201.30      A16S
ATOM  17640  O2* U   A 841     164.307 145.049 -52.692  1.00201.30      A16S
ATOM  17641  C3* U   A 841     161.872 145.326 -52.544  1.00201.30      A16S
ATOM  17642  O3* U   A 841     161.904 144.032 -51.949  1.00201.30      A16S
ATOM  17643  P   C   A 848     161.943 143.887 -50.347  1.00201.30      A16S
ATOM  17644  O1P C   A 848     162.270 145.224 -49.773  1.00133.77      A16S
ATOM  17645  O2P C   A 848     162.806 142.720 -50.024  1.00133.77      A16S
ATOM  17646  O5* C   A 848     160.441 143.523 -49.959  1.00201.30      A16S
ATOM  17647  C5* C   A 848     159.562 144.515 -49.402  1.00201.30      A16S
ATOM  17648  C4* C   A 848     158.140 144.265 -49.841  1.00201.30      A16S
ATOM  17649  O4* C   A 848     158.063 144.342 -51.289  1.00201.30      A16S
ATOM  17650  C1* C   A 848     157.068 143.447 -51.761  1.00201.30      A16S
ATOM  17651  N1  C   A 848     157.692 142.453 -52.657  1.00133.77      A16S
ATOM  17652  C6  C   A 848     158.939 141.950 -52.399  1.00133.77      A16S
ATOM  17653  C2  C   A 848     156.969 142.007 -53.772  1.00133.77      A16S
ATOM  17654  O2  C   A 848     155.853 142.496 -54.000  1.00133.77      A16S
ATOM  17655  N3  C   A 848     157.505 141.056 -54.571  1.00133.77      A16S
ATOM  17656  C4  C   A 848     158.712 140.557 -54.297  1.00133.77      A16S
ATOM  17657  N4  C   A 848     159.192 139.605 -55.102  1.00133.77      A16S
ATOM  17658  C5  C   A 848     159.480 141.008 -53.183  1.00133.77      A16S
ATOM  17659  C2* C   A 848     156.441 142.769 -50.544  1.00201.30      A16S
ATOM  17660  O2* C   A 848     155.265 143.459 -50.171  1.00201.30      A16S
ATOM  17661  C3* C   A 848     157.554 142.900 -49.514  1.00201.30      A16S
ATOM  17662  O3* C   A 848     157.062 142.807 -48.187  1.00201.30      A16S
ATOM  17663  P   C   A 849     156.788 141.356 -47.545  1.00136.00      A16S
ATOM  17664  O1P C   A 849     156.468 141.581 -46.113  1.00 77.50      A16S
ATOM  17665  O2P C   A 849     157.904 140.439 -47.907  1.00 77.50      A16S
ATOM  17666  O5* C   A 849     155.473 140.847 -48.293  1.00136.00      A16S
ATOM  17667  C5* C   A 849     154.218 141.540 -48.132  1.00136.00      A16S
ATOM  17668  C4* C   A 849     153.155 140.955 -49.041  1.00136.00      A16S
ATOM  17669  O4* C   A 849     153.506 141.181 -50.432  1.00136.00      A16S
ATOM  17670  C1* C   A 849     153.028 140.106 -51.226  1.00136.00      A16S
ATOM  17671  N1  C   A 849     154.173 139.466 -51.908  1.00 77.50      A16S
ATOM  17672  C6  C   A 849     155.450 139.597 -51.428  1.00 77.50      A16S
ATOM  17673  C2  C   A 849     153.926 138.694 -53.049  1.00 77.50      A16S
ATOM  17674  O2  C   A 849     152.764 138.619 -53.483  1.00 77.50      A16S
ATOM  17675  N3  C   A 849     154.958 138.052 -53.648  1.00 77.50      A16S
ATOM  17676  C4  C   A 849     156.193 138.167 -53.155  1.00 77.50      A16S
ATOM  17677  N4  C   A 849     157.174 137.496 -53.759  1.00 77.50      A16S
ATOM  17678  C5  C   A 849     156.478 138.970 -52.014  1.00 77.50      A16S
ATOM  17679  C2* C   A 849     152.294 139.133 -50.300  1.00136.00      A16S
ATOM  17680  O2* C   A 849     150.901 139.376 -50.331  1.00136.00      A16S
ATOM  17681  C3* C   A 849     152.921 139.456 -48.950  1.00136.00      A16S
ATOM  17682  O3* C   A 849     152.068 139.101 -47.874  1.00136.00      A16S
ATOM  17683  P   U   A 850     152.239 137.664 -47.179  1.00 71.22      A16S
ATOM  17684  O1P U   A 850     151.172 137.534 -46.158  1.00 81.13      A16S
ATOM  17685  O2P U   A 850     153.662 137.514 -46.770  1.00 81.13      A16S
ATOM  17686  O5* U   A 850     151.933 136.642 -48.365  1.00 71.22      A16S
ATOM  17687  C5* U   A 850     150.638 136.616 -48.990  1.00 71.22      A16S
ATOM  17688  C4* U   A 850     150.589 135.565 -50.077  1.00 71.22      A16S
ATOM  17689  O4* U   A 850     151.412 135.967 -51.200  1.00 71.22      A16S
ATOM  17690  C1* U   A 850     151.966 134.816 -51.819  1.00 71.22      A16S
ATOM  17691  N1  U   A 850     153.432 134.893 -51.733  1.00 81.13      A16S
ATOM  17692  C6  U   A 850     154.065 135.432 -50.634  1.00 81.13      A16S
ATOM  17693  C2  U   A 850     154.162 134.395 -52.797  1.00 81.13      A16S
ATOM  17694  O2  U   A 850     153.647 133.885 -53.777  1.00 81.13      A16S
ATOM  17695  N3  U   A 850     155.521 134.504 -52.668  1.00 81.13      A16S
ATOM  17696  C4  U   A 850     156.213 135.029 -51.604  1.00 81.13      A16S
ATOM  17697  O4  U   A 850     157.444 135.048 -51.640  1.00 81.13      A16S
ATOM  17698  C5  U   A 850     155.393 135.510 -50.535  1.00 81.13      A16S
ATOM  17699  C2* U   A 850     151.437 133.591 -51.078  1.00 71.22      A16S
ATOM  17700  O2* U   A 850     150.292 133.078 -51.731  1.00 71.22      A16S
ATOM  17701  C3* U   A 850     151.110 134.185 -49.719  1.00 71.22      A16S
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ATOM  17702  O3*  U   A 850     150.179 133.386 -49.025  1.00 71.22      A16S
ATOM  17703  P    G   A 851     150.720 132.251 -48.032  1.00 64.33      A16S
ATOM  17704  O1P  G   A 851     149.515 131.730 -47.328  1.00 53.94      A16S
ATOM  17705  O2P  G   A 851     151.850 132.811 -47.246  1.00 53.94      A16S
ATOM  17706  O5*  G   A 851     151.310 131.122 -48.999  1.00 64.33      A16S
ATOM  17707  C5*  G   A 851     150.408 130.253 -49.694  1.00 64.33      A16S
ATOM  17708  C4*  G   A 851     151.135 129.191 -50.489  1.00 64.33      A16S
ATOM  17709  O4*  G   A 851     151.759 129.755 -51.665  1.00 64.33      A16S
ATOM  17710  C1*  G   A 851     152.794 128.892 -52.100  1.00 64.33      A16S
ATOM  17711  N9   G   A 851     154.062 129.618 -52.146  1.00 53.94      A16S
ATOM  17712  C4   G   A 851     155.179 129.239 -52.852  1.00 53.94      A16S
ATOM  17713  N3   G   A 851     155.279 128.161 -53.652  1.00 53.94      A16S
ATOM  17714  C2   G   A 851     156.476 128.049 -54.179  1.00 53.94      A16S
ATOM  17715  N2   G   A 851     156.749 127.021 -54.994  1.00 53.94      A16S
ATOM  17716  N1   G   A 851     157.495 128.929 -53.946  1.00 53.94      A16S
ATOM  17717  C6   G   A 851     157.414 130.053 -53.130  1.00 53.94      A16S
ATOM  17718  O6   G   A 851     158.399 130.804 -52.997  1.00 53.94      A16S
ATOM  17719  C5   G   A 851     156.137 130.177 -52.551  1.00 53.94      A16S
ATOM  17720  N7   G   A 851     155.634 131.140 -51.688  1.00 53.94      A16S
ATOM  17721  C8   G   A 851     154.399 130.774 -51.481  1.00 53.94      A16S
ATOM  17722  C2*  G   A 851     152.870 127.740 -51.104  1.00 64.33      A16S
ATOM  17723  O2*  G   A 851     152.098 126.684 -51.630  1.00 64.33      A16S
ATOM  17724  C3*  G   A 851     152.227 128.346 -49.863  1.00 64.33      A16S
ATOM  17725  O3*  G   A 851     151.729 127.309 -49.035  1.00 64.33      A16S
ATOM  17726  P    G   A 852     152.756 126.438 -48.149  1.00 50.01      A16S
ATOM  17727  O1P  G   A 852     151.967 125.418 -47.414  1.00 50.78      A16S
ATOM  17728  O2P  G   A 852     153.633 127.361 -47.389  1.00 50.78      A16S
ATOM  17729  O5*  G   A 852     153.666 125.677 -49.220  1.00 50.01      A16S
ATOM  17730  C5*  G   A 852     153.171 124.522 -49.941  1.00 50.01      A16S
ATOM  17731  C4*  G   A 852     154.288 123.851 -50.712  1.00 50.01      A16S
ATOM  17732  O4*  G   A 852     154.766 124.740 -51.756  1.00 50.01      A16S
ATOM  17733  C1*  G   A 852     156.174 124.620 -51.890  1.00 50.01      A16S
ATOM  17734  N9   G   A 852     156.775 125.872 -51.439  1.00 50.78      A16S
ATOM  17735  C4   G   A 852     158.069 126.295 -51.654  1.00 50.78      A16S
ATOM  17736  N3   G   A 852     159.018 125.633 -52.342  1.00 50.78      A16S
ATOM  17737  C2   G   A 852     160.159 126.300 -52.375  1.00 50.78      A16S
ATOM  17738  N2   G   A 852     161.201 125.794 -53.029  1.00 50.78      A16S
ATOM  17739  N1   G   A 852     160.361 127.509 -51.772  1.00 50.78      A16S
ATOM  17740  C6   G   A 852     159.410 128.207 -51.044  1.00 50.78      A16S
ATOM  17741  O6   G   A 852     159.707 129.288 -50.514  1.00 50.78      A16S
ATOM  17742  C5   G   A 852     158.167 127.514 -51.013  1.00 50.78      A16S
ATOM  17743  N7   G   A 852     156.961 127.855 -50.415  1.00 50.78      A16S
ATOM  17744  C8   G   A 852     156.168 126.856 -50.693  1.00 50.78      A16S
ATOM  17745  C2*  G   A 852     156.611 123.477 -50.980  1.00 50.01      A16S
ATOM  17746  O2*  G   A 852     156.621 122.250 -51.685  1.00 50.01      A16S
ATOM  17747  C3*  G   A 852     155.532 123.521 -49.913  1.00 50.01      A16S
ATOM  17748  O3*  G   A 852     155.448 122.315 -49.186  1.00 50.01      A16S
ATOM  17749  P    G   A 853     156.162 122.227 -47.748  1.00 48.75      A16S
ATOM  17750  O1P  G   A 853     155.762 120.918 -47.158  1.00 44.30      A16S
ATOM  17751  O2P  G   A 853     155.896 123.498 -47.007  1.00 44.30      A16S
ATOM  17752  O5*  G   A 853     157.729 122.209 -48.054  1.00 48.75      A16S
ATOM  17753  C5*  G   A 853     158.330 121.093 -48.721  1.00 48.75      A16S
ATOM  17754  C4*  G   A 853     159.796 121.348 -49.008  1.00 48.75      A16S
ATOM  17755  O4*  G   A 853     159.967 122.413 -49.973  1.00 48.75      A16S
ATOM  17756  C1*  G   A 853     161.263 122.962 -49.841  1.00 48.75      A16S
ATOM  17757  N9   G   A 853     161.164 124.394 -49.598  1.00 44.30      A16S
ATOM  17758  C4   G   A 853     162.206 125.293 -49.609  1.00 44.30      A16S
ATOM  17759  N3   G   A 853     163.483 125.022 -49.933  1.00 44.30      A16S
ATOM  17760  C2   G   A 853     164.263 126.068 -49.778  1.00 44.30      A16S
ATOM  17761  N2   G   A 853     165.558 125.967 -50.064  1.00 44.30      A16S
ATOM  17762  N1   G   A 853     163.835 127.286 -49.330  1.00 44.30      A16S
ATOM  17763  C6   G   A 853     162.523 127.591 -48.980  1.00 44.30      A16S
ATOM  17764  O6   G   A 853     162.232 128.726 -48.543  1.00 44.30      A16S
ATOM  17765  C5   G   A 853     161.668 126.476 -49.168  1.00 44.30      A16S
ATOM  17766  N7   G   A 853     160.305 126.348 -48.958  1.00 44.30      A16S
ATOM  17767  C8   G   A 853     160.050 125.100 -49.241  1.00 44.30      A16S
ATOM  17768  C2*  G   A 853     161.921 122.287 -48.641  1.00 48.75      A16S
ATOM  17769  O2*  G   A 853     162.760 121.271 -49.132  1.00 48.75      A16S
ATOM  17770  C3*  G   A 853     160.722 121.741 -47.875  1.00 48.75      A16S
ATOM  17771  O3*  G   A 853     161.099 120.620 -47.087  1.00 48.75      A16S
ATOM  17772  P    G   A 854     161.808 120.849 -45.662  1.00 38.49      A16S
ATOM  17773  O1P  G   A 854     162.066 119.510 -45.071  1.00 48.97      A16S
ATOM  17774  O2P  G   A 854     161.040 121.849 -44.883  1.00 48.97      A16S
ATOM  17775  O5*  G   A 854     163.219 121.474 -46.041  1.00 38.49      A16S
ATOM  17776  C5*  G   A 854     164.158 120.700 -46.778  1.00 38.49      A16S
ATOM  17777  C4*  G   A 854     165.443 121.451 -46.945  1.00 38.49      A16S
ATOM  17778  O4*  G   A 854     165.217 122.656 -47.709  1.00 38.49      A16S
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ATOM  17779  C1* G   A 854     166.094 123.676 -47.256  1.00 38.49      A16S
ATOM  17780  N9  G   A 854     165.300 124.831 -46.843  1.00 48.97      A16S
ATOM  17781  C4  G   A 854     165.770 126.076 -46.511  1.00 48.97      A16S
ATOM  17782  N3  G   A 854     167.062 126.453 -46.475  1.00 48.97      A16S
ATOM  17783  C2  G   A 854     167.190 127.723 -46.137  1.00 48.97      A16S
ATOM  17784  N2  G   A 854     168.400 128.275 -46.048  1.00 48.97      A16S
ATOM  17785  N1  G   A 854     166.138 128.548 -45.859  1.00 48.97      A16S
ATOM  17786  C6  G   A 854     164.801 128.173 -45.888  1.00 48.97      A16S
ATOM  17787  O6  G   A 854     163.921 128.995 -45.611  1.00 48.97      A16S
ATOM  17788  C5  G   A 854     164.651 126.827 -46.246  1.00 48.97      A16S
ATOM  17789  N7  G   A 854     163.503 126.070 -46.387  1.00 48.97      A16S
ATOM  17790  C8  G   A 854     163.935 124.893 -46.733  1.00 48.97      A16S
ATOM  17791  C2* G   A 854     166.956 123.087 -46.141  1.00 38.49      A16S
ATOM  17792  O2* G   A 854     168.173 122.656 -46.711  1.00 38.49      A16S
ATOM  17793  C3* G   A 854     166.096 121.922 -45.664  1.00 38.49      A16S
ATOM  17794  O3* G   A 854     166.874 120.886 -45.090  1.00 38.49      A16S
ATOM  17795  P   G   A 855     167.376 121.027 -43.579  1.00 34.56      A16S
ATOM  17796  O1P G   A 855     168.555 120.156 -43.391  1.00 50.67      A16S
ATOM  17797  O2P G   A 855     166.194 120.856 -42.708  1.00 50.67      A16S
ATOM  17798  O5* G   A 855     167.897 122.527 -43.512  1.00 34.56      A16S
ATOM  17799  C5* G   A 855     167.938 123.231 -42.270  1.00 34.56      A16S
ATOM  17800  C4* G   A 855     168.984 124.309 -42.322  1.00 34.56      A16S
ATOM  17801  O4* G   A 855     168.666 125.234 -43.390  1.00 34.56      A16S
ATOM  17802  C1* G   A 855     169.027 126.551 -43.007  1.00 34.56      A16S
ATOM  17803  N9  G   A 855     167.822 127.370 -42.982  1.00 50.67      A16S
ATOM  17804  C4  G   A 855     167.780 128.707 -42.712  1.00 50.67      A16S
ATOM  17805  N3  G   A 855     168.846 129.487 -42.444  1.00 50.67      A16S
ATOM  17806  C2  G   A 855     168.495 130.731 -42.191  1.00 50.67      A16S
ATOM  17807  N2  G   A 855     169.438 131.640 -41.898  1.00 50.67      A16S
ATOM  17808  N1  G   A 855     167.194 131.175 -42.202  1.00 50.67      A16S
ATOM  17809  C6  G   A 855     166.080 130.388 -42.472  1.00 50.67      A16S
ATOM  17810  O6  G   A 855     164.950 130.888 -42.439  1.00 50.67      A16S
ATOM  17811  C5  G   A 855     166.448 129.048 -42.749  1.00 50.67      A16S
ATOM  17812  N7  G   A 855     165.666 127.944 -43.055  1.00 50.67      A16S
ATOM  17813  C8  G   A 855     166.525 126.972 -43.190  1.00 50.67      A16S
ATOM  17814  C2* G   A 855     169.660 126.472 -41.621  1.00 34.56      A16S
ATOM  17815  O2* G   A 855     171.068 126.416 -41.731  1.00 34.56      A16S
ATOM  17816  C3* G   A 855     169.047 125.188 -41.093  1.00 34.56      A16S
ATOM  17817  O3* G   A 855     169.796 124.600 -40.066  1.00 34.56      A16S
ATOM  17818  P   C   A 856     169.295 124.768 -38.552  1.00 31.64      A16S
ATOM  17819  O1P C   A 856     170.073 123.772 -37.740  1.00 44.07      A16S
ATOM  17820  O2P C   A 856     167.791 124.750 -38.523  1.00 44.07      A16S
ATOM  17821  O5* C   A 856     169.766 126.236 -38.151  1.00 31.64      A16S
ATOM  17822  C5* C   A 856     171.133 126.604 -38.280  1.00 31.64      A16S
ATOM  17823  C4* C   A 856     171.267 128.093 -38.285  1.00 31.64      A16S
ATOM  17824  O4* C   A 856     170.498 128.652 -39.372  1.00 31.64      A16S
ATOM  17825  C1* C   A 856     169.991 129.914 -38.983  1.00 31.64      A16S
ATOM  17826  N1  C   A 856     168.537 129.878 -39.084  1.00 44.07      A16S
ATOM  17827  C6  C   A 856     167.871 128.704 -39.252  1.00 44.07      A16S
ATOM  17828  C2  C   A 856     167.850 131.069 -39.006  1.00 44.07      A16S
ATOM  17829  O2  C   A 856     168.490 132.112 -38.817  1.00 44.07      A16S
ATOM  17830  N3  C   A 856     166.513 131.067 -39.128  1.00 44.07      A16S
ATOM  17831  C4  C   A 856     165.869 129.922 -39.310  1.00 44.07      A16S
ATOM  17832  N4  C   A 856     164.547 129.965 -39.451  1.00 44.07      A16S
ATOM  17833  C5  C   A 856     166.550 128.681 -39.365  1.00 44.07      A16S
ATOM  17834  C2* C   A 856     170.431 130.184 -37.548  1.00 31.64      A16S
ATOM  17835  O2* C   A 856     171.570 131.014 -37.526  1.00 31.64      A16S
ATOM  17836  C3* C   A 856     170.727 128.783 -37.057  1.00 31.64      A16S
ATOM  17837  O3* C   A 856     171.679 128.810 -36.043  1.00 31.64      A16S
ATOM  17838  P   C   A 857     171.189 128.712 -34.538  1.00 40.96      A16S
ATOM  17839  O1P C   A 857     172.428 128.629 -33.735  1.00 45.77      A16S
ATOM  17840  O2P C   A 857     170.172 127.630 -34.440  1.00 45.77      A16S
ATOM  17841  O5* C   A 857     170.453 130.101 -34.284  1.00 40.96      A16S
ATOM  17842  C5* C   A 857     171.215 131.287 -34.036  1.00 40.96      A16S
ATOM  17843  C4* C   A 857     170.313 132.470 -33.774  1.00 40.96      A16S
ATOM  17844  O4* C   A 857     169.484 132.708 -34.929  1.00 40.96      A16S
ATOM  17845  C1* C   A 857     168.294 133.342 -34.526  1.00 40.96      A16S
ATOM  17846  N1  C   A 857     167.150 132.608 -35.066  1.00 45.77      A16S
ATOM  17847  C6  C   A 857     167.276 131.339 -35.552  1.00 45.77      A16S
ATOM  17848  C2  C   A 857     165.921 133.239 -35.069  1.00 45.77      A16S
ATOM  17849  O2  C   A 857     165.848 134.395 -34.617  1.00 45.77      A16S
ATOM  17850  N3  C   A 857     164.843 132.587 -35.556  1.00 45.77      A16S
ATOM  17851  C4  C   A 857     164.971 131.349 -36.019  1.00 45.77      A16S
ATOM  17852  N4  C   A 857     163.885 130.741 -36.467  1.00 45.77      A16S
ATOM  17853  C5  C   A 857     166.219 130.679 -36.034  1.00 45.77      A16S
ATOM  17854  C2* C   A 857     168.289 133.427 -33.004  1.00 40.96      A16S
ATOM  17855  O2* C   A 857     168.678 134.730 -32.624  1.00 40.96      A16S
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ATOM  17856  C3* C   A 857     169.326 132.383 -32.627  1.00 40.96      A16S
ATOM  17857  O3* C   A 857     169.927 132.725 -31.391  1.00 40.96      A16S
ATOM  17858  P   G   A 858     169.183 132.338 -30.024  1.00 56.40      A16S
ATOM  17859  O1P G   A 858     170.159 132.474 -28.910  1.00 47.75      A16S
ATOM  17860  O2P G   A 858     168.487 131.030 -30.255  1.00 47.75      A16S
ATOM  17861  O5* G   A 858     168.078 133.475 -29.862  1.00 56.40      A16S
ATOM  17862  C5* G   A 858     166.812 133.204 -29.223  1.00 56.40      A16S
ATOM  17863  C4* G   A 858     165.721 134.039 -29.853  1.00 56.40      A16S
ATOM  17864  O4* G   A 858     165.692 133.814 -31.281  1.00 56.40      A16S
ATOM  17865  C1* G   A 858     164.369 133.581 -31.706  1.00 56.40      A16S
ATOM  17866  N9  G   A 858     164.301 132.170 -32.065  1.00 47.75      A16S
ATOM  17867  C4  G   A 858     163.276 131.506 -32.679  1.00 47.75      A16S
ATOM  17868  N3  G   A 858     162.092 132.031 -33.030  1.00 47.75      A16S
ATOM  17869  C2  G   A 858     161.319 131.138 -33.623  1.00 47.75      A16S
ATOM  17870  N2  G   A 858     160.085 131.476 -34.024  1.00 47.75      A16S
ATOM  17871  N1  G   A 858     161.692 129.840 -33.867  1.00 47.75      A16S
ATOM  17872  C6  G   A 858     162.913 129.280 -33.513  1.00 47.75      A16S
ATOM  17873  O6  G   A 858     163.162 128.093 -33.788  1.00 47.75      A16S
ATOM  17874  C5  G   A 858     163.735 130.217 -32.861  1.00 47.75      A16S
ATOM  17875  N7  G   A 858     165.008 130.068 -32.338  1.00 47.75      A16S
ATOM  17876  C8  G   A 858     165.300 131.246 -31.872  1.00 47.75      A16S
ATOM  17877  C2* G   A 858     163.453 134.004 -30.561  1.00 56.40      A16S
ATOM  17878  O2* G   A 858     163.205 135.384 -30.697  1.00 56.40      A16S
ATOM  17879  C3* G   A 858     164.328 133.721 -29.350  1.00 56.40      A16S
ATOM  17880  O3* G   A 858     164.035 134.592 -28.270  1.00 56.40      A16S
ATOM  17881  P   A   A 859     163.155 134.070 -27.034  1.00 42.56      A16S
ATOM  17882  O1P A   A 859     163.824 134.545 -25.792  1.00 54.89      A16S
ATOM  17883  O2P A   A 859     162.861 132.624 -27.196  1.00 54.89      A16S
ATOM  17884  O5* A   A 859     161.783 134.855 -27.205  1.00 42.56      A16S
ATOM  17885  C5* A   A 859     160.954 134.645 -28.362  1.00 42.56      A16S
ATOM  17886  C4* A   A 859     159.610 135.299 -28.162  1.00 42.56      A16S
ATOM  17887  O4* A   A 859     158.822 135.087 -29.354  1.00 42.56      A16S
ATOM  17888  C1* A   A 859     157.477 134.849 -29.002  1.00 42.56      A16S
ATOM  17889  N9  A   A 859     157.102 133.536 -29.520  1.00 54.89      A16S
ATOM  17890  C4  A   A 859     155.837 133.009 -29.552  1.00 54.89      A16S
ATOM  17891  N3  A   A 859     154.710 133.582 -29.111  1.00 54.89      A16S
ATOM  17892  C2  A   A 859     153.673 132.775 -29.302  1.00 54.89      A16S
ATOM  17893  N1  A   A 859     153.637 131.554 -29.843  1.00 54.89      A16S
ATOM  17894  C6  A   A 859     154.786 131.007 -30.277  1.00 54.89      A16S
ATOM  17895  N6  A   A 859     154.744 129.788 -30.820  1.00 54.89      A16S
ATOM  17896  C5  A   A 859     155.962 131.763 -30.129  1.00 54.89      A16S
ATOM  17897  N7  A   A 859     157.284 131.505 -30.454  1.00 54.89      A16S
ATOM  17898  C8  A   A 859     157.916 132.585 -30.072  1.00 54.89      A16S
ATOM  17899  C2* A   A 859     157.361 134.973 -27.483  1.00 42.56      A16S
ATOM  17900  O2* A   A 859     156.973 136.279 -27.156  1.00 42.56      A16S
ATOM  17901  C3* A   A 859     158.784 134.712 -27.034  1.00 42.56      A16S
ATOM  17902  O3* A   A 859     159.060 135.356 -25.802  1.00 42.56      A16S
ATOM  17903  P   A   A 860     159.116 134.487 -24.443  1.00 25.64      A16S
ATOM  17904  O1P A   A 860     159.154 135.471 -23.322  1.00 50.80      A16S
ATOM  17905  O2P A   A 860     160.194 133.461 -24.541  1.00 50.80      A16S
ATOM  17906  O5* A   A 860     157.708 133.732 -24.413  1.00 25.64      A16S
ATOM  17907  C5* A   A 860     156.497 134.453 -24.120  1.00 25.64      A16S
ATOM  17908  C4* A   A 860     155.289 133.584 -24.350  1.00 25.64      A16S
ATOM  17909  O4* A   A 860     155.185 133.277 -25.755  1.00 25.64      A16S
ATOM  17910  C1* A   A 860     154.683 131.961 -25.921  1.00 25.64      A16S
ATOM  17911  N9  A   A 860     155.666 131.178 -26.668  1.00 50.80      A16S
ATOM  17912  C4  A   A 860     155.482 129.917 -27.168  1.00 50.80      A16S
ATOM  17913  N3  A   A 860     154.374 129.177 -27.102  1.00 50.80      A16S
ATOM  17914  C2  A   A 860     154.566 128.009 -27.682  1.00 50.80      A16S
ATOM  17915  N1  A   A 860     155.655 127.528 -28.268  1.00 50.80      A16S
ATOM  17916  C6  A   A 860     156.757 128.296 -28.307  1.00 50.80      A16S
ATOM  17917  N6  A   A 860     157.861 127.808 -28.872  1.00 50.80      A16S
ATOM  17918  C5  A   A 860     156.679 129.561 -27.741  1.00 50.80      A16S
ATOM  17919  N7  A   A 860     157.601 130.588 -27.636  1.00 50.80      A16S
ATOM  17920  C8  A   A 860     156.952 131.523 -26.993  1.00 50.80      A16S
ATOM  17921  C2* A   A 860     154.415 131.382 -24.532  1.00 25.64      A16S
ATOM  17922  O2* A   A 860     153.051 131.527 -24.242  1.00 25.64      A16S
ATOM  17923  C3* A   A 860     155.305 132.241 -23.651  1.00 25.64      A16S
ATOM  17924  O3* A   A 860     154.780 132.357 -22.349  1.00 25.64      A16S
ATOM  17925  P   G   A 861     155.491 131.583 -21.149  1.00 26.41      A16S
ATOM  17926  O1P G   A 861     154.674 131.765 -19.931  1.00 45.22      A16S
ATOM  17927  O2P G   A 861     156.934 131.966 -21.131  1.00 45.22      A16S
ATOM  17928  O5* G   A 861     155.370 130.062 -21.592  1.00 26.41      A16S
ATOM  17929  C5* G   A 861     154.080 129.483 -21.817  1.00 26.41      A16S
ATOM  17930  C4* G   A 861     154.195 128.194 -22.594  1.00 26.41      A16S
ATOM  17931  O4* G   A 861     154.650 128.458 -23.947  1.00 26.41      A16S
ATOM  17932  C1* G   A 861     155.486 127.402 -24.385  1.00 26.41      A16S
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ATOM  17933  N9  G   A 861     156.827 127.938 -24.585  1.00 45.22      A16S
ATOM  17934  C4  G   A 861     157.867 127.354 -25.277  1.00 45.22      A16S
ATOM  17935  N3  G   A 861     157.829 126.182 -25.934  1.00 45.22      A16S
ATOM  17936  C2  G   A 861     158.990 125.885 -26.484  1.00 45.22      A16S
ATOM  17937  N2  G   A 861     159.131 124.762 -27.178  1.00 45.22      A16S
ATOM  17938  N1  G   A 861     160.102 126.664 -26.396  1.00 45.22      A16S
ATOM  17939  C6  G   A 861     160.177 127.866 -25.714  1.00 45.22      A16S
ATOM  17940  O6  G   A 861     161.249 128.481 -25.667  1.00 45.22      A16S
ATOM  17941  C5  G   A 861     158.929 128.211 -25.127  1.00 45.22      A16S
ATOM  17942  N7  G   A 861     158.565 129.321 -24.375  1.00 45.22      A16S
ATOM  17943  C8  G   A 861     157.311 129.118 -24.085  1.00 45.22      A16S
ATOM  17944  C2* G   A 861     155.474 126.339 -23.286  1.00 26.41      A16S
ATOM  17945  O2* G   A 861     154.424 125.453 -23.594  1.00 26.41      A16S
ATOM  17946  C3* G   A 861     155.167 127.170 -22.047  1.00 26.41      A16S
ATOM  17947  O3* G   A 861     154.573 126.411 -21.007  1.00 26.41      A16S
ATOM  17948  P   C   A 862     155.504 125.776 -19.867  1.00 35.27      A16S
ATOM  17949  O1P C   A 862     154.673 125.242 -18.759  1.00 42.76      A16S
ATOM  17950  O2P C   A 862     156.587 126.742 -19.566  1.00 42.76      A16S
ATOM  17951  O5* C   A 862     156.163 124.538 -20.600  1.00 35.27      A16S
ATOM  17952  C5* C   A 862     155.353 123.606 -21.329  1.00 35.27      A16S
ATOM  17953  C4* C   A 862     156.230 122.610 -22.049  1.00 35.27      A16S
ATOM  17954  O4* C   A 862     156.864 123.236 -23.193  1.00 35.27      A16S
ATOM  17955  C1* C   A 862     158.167 122.707 -23.353  1.00 35.27      A16S
ATOM  17956  N1  C   A 862     159.146 123.801 -23.231  1.00 42.76      A16S
ATOM  17957  C6  C   A 862     158.825 124.958 -22.591  1.00 42.76      A16S
ATOM  17958  C2  C   A 862     160.416 123.628 -23.767  1.00 42.76      A16S
ATOM  17959  O2  C   A 862     160.671 122.589 -24.394  1.00 42.76      A16S
ATOM  17960  N3  C   A 862     161.334 124.598 -23.606  1.00 42.76      A16S
ATOM  17961  C4  C   A 862     161.013 125.716 -22.969  1.00 42.76      A16S
ATOM  17962  N4  C   A 862     161.946 126.649 -22.838  1.00 42.76      A16S
ATOM  17963  C5  C   A 862     159.721 125.930 -22.441  1.00 42.76      A16S
ATOM  17964  C2* C   A 862     158.367 121.629 -22.286  1.00 35.27      A16S
ATOM  17965  O2* C   A 862     157.978 120.375 -22.805  1.00 35.27      A16S
ATOM  17966  C3* C   A 862     157.382 122.063 -21.223  1.00 35.27      A16S
ATOM  17967  O3* C   A 862     156.994 120.977 -20.405  1.00 35.27      A16S
ATOM  17968  P   U   A 863     157.829 120.670 -19.079  1.00 35.27      A16S
ATOM  17969  O1P U   A 863     157.318 119.408 -18.465  1.00 49.96      A16S
ATOM  17970  O2P U   A 863     157.882 121.907 -18.282  1.00 49.96      A16S
ATOM  17971  O5* U   A 863     159.296 120.414 -19.634  1.00 35.27      A16S
ATOM  17972  C5* U   A 863     159.571 119.249 -20.438  1.00 35.27      A16S
ATOM  17973  C4* U   A 863     161.049 119.098 -20.667  1.00 35.27      A16S
ATOM  17974  O4* U   A 863     161.538 120.155 -21.528  1.00 35.27      A16S
ATOM  17975  C1* U   A 863     162.883 120.442 -21.188  1.00 35.27      A16S
ATOM  17976  N1  U   A 863     163.050 121.894 -20.989  1.00 49.96      A16S
ATOM  17977  C6  U   A 863     162.077 122.667 -20.406  1.00 49.96      A16S
ATOM  17978  C2  U   A 863     164.242 122.456 -21.403  1.00 49.96      A16S
ATOM  17979  O2  U   A 863     165.107 121.829 -21.971  1.00 49.96      A16S
ATOM  17980  N3  U   A 863     164.378 123.787 -21.140  1.00 49.96      A16S
ATOM  17981  C4  U   A 863     163.460 124.609 -20.544  1.00 49.96      A16S
ATOM  17982  O4  U   A 863     163.766 125.779 -20.312  1.00 49.96      A16S
ATOM  17983  C5  U   A 863     162.235 123.972 -20.180  1.00 49.96      A16S
ATOM  17984  C2* U   A 863     163.262 119.580 -19.978  1.00 35.27      A16S
ATOM  17985  O2* U   A 863     163.960 118.439 -20.424  1.00 35.27      A16S
ATOM  17986  C3* U   A 863     161.900 119.200 -19.426  1.00 35.27      A16S
ATOM  17987  O3* U   A 863     161.925 117.973 -18.747  1.00 35.27      A16S
ATOM  17988  P   A   A 864     161.868 117.969 -17.150  1.00 23.14      A16S
ATOM  17989  O1P A   A 864     161.625 116.581 -16.692  1.00 39.97      A16S
ATOM  17990  O2P A   A 864     160.945 119.048 -16.729  1.00 39.97      A16S
ATOM  17991  O5* A   A 864     163.319 118.425 -16.711  1.00 23.14      A16S
ATOM  17992  C5* A   A 864     163.577 118.755 -15.352  1.00 23.14      A16S
ATOM  17993  C4* A   A 864     165.038 118.619 -15.071  1.00 23.14      A16S
ATOM  17994  O4* A   A 864     165.409 117.228 -15.214  1.00 23.14      A16S
ATOM  17995  C1* A   A 864     166.666 117.130 -15.859  1.00 23.14      A16S
ATOM  17996  N9  A   A 864     166.470 116.397 -17.114  1.00 39.97      A16S
ATOM  17997  C4  A   A 864     167.401 115.654 -17.797  1.00 39.97      A16S
ATOM  17998  N3  A   A 864     168.680 115.445 -17.460  1.00 39.97      A16S
ATOM  17999  C2  A   A 864     169.268 114.671 -18.352  1.00 39.97      A16S
ATOM  18000  N1  A   A 864     168.764 114.126 -19.466  1.00 39.97      A16S
ATOM  18001  C6  A   A 864     167.479 114.363 -19.776  1.00 39.97      A16S
ATOM  18002  N6  A   A 864     166.982 113.834 -20.888  1.00 39.97      A16S
ATOM  18003  C5  A   A 864     166.745 115.156 -18.909  1.00 39.97      A16S
ATOM  18004  N7  A   A 864     165.427 115.569 -18.929  1.00 39.97      A16S
ATOM  18005  C8  A   A 864     165.313 116.303 -17.849  1.00 39.97      A16S
ATOM  18006  C2* A   A 864     167.200 118.554 -16.034  1.00 23.14      A16S
ATOM  18007  O2* A   A 864     168.005 118.875 -14.913  1.00 23.14      A16S
ATOM  18008  C3* A   A 864     165.909 119.360 -16.062  1.00 23.14      A16S
ATOM  18009  O3* A   A 864     166.056 120.710 -15.663  1.00 23.14      A16S
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ATOM  18010  P    A   A 865     165.536 121.880 -16.634  1.00 18.54      A16S
ATOM  18011  O1P  A   A 865     165.096 122.970 -15.739  1.00 40.62      A16S
ATOM  18012  O2P  A   A 865     164.581 121.322 -17.624  1.00 40.62      A16S
ATOM  18013  O5*  A   A 865     166.854 122.336 -17.404  1.00 18.54      A16S
ATOM  18014  C5*  A   A 865     168.048 122.635 -16.660  1.00 18.54      A16S
ATOM  18015  C4*  A   A 865     169.249 121.922 -17.241  1.00 18.54      A16S
ATOM  18016  O4*  A   A 865     169.021 120.490 -17.255  1.00 18.54      A16S
ATOM  18017  C1*  A   A 865     169.637 119.917 -18.392  1.00 18.54      A16S
ATOM  18018  N9   A   A 865     168.592 119.323 -19.228  1.00 40.62      A16S
ATOM  18019  C4   A   A 865     168.745 118.359 -20.194  1.00 40.62      A16S
ATOM  18020  N3   A   A 865     169.883 117.764 -20.587  1.00 40.62      A16S
ATOM  18021  C2   A   A 865     169.634 116.859 -21.536  1.00 40.62      A16S
ATOM  18022  N1   A   A 865     168.466 116.509 -22.089  1.00 40.62      A16S
ATOM  18023  C6   A   A 865     167.345 117.125 -21.666  1.00 40.62      A16S
ATOM  18024  N6   A   A 865     166.179 116.770 -22.199  1.00 40.62      A16S
ATOM  18025  C5   A   A 865     167.474 118.107 -20.676  1.00 40.62      A16S
ATOM  18026  N7   A   A 865     166.542 118.910 -20.043  1.00 40.62      A16S
ATOM  18027  C8   A   A 865     167.252 119.609 -19.199  1.00 40.62      A16S
ATOM  18028  C2*  A   A 865     170.422 121.030 -19.081  1.00 18.54      A16S
ATOM  18029  O2*  A   A 865     171.700 121.010 -18.472  1.00 18.54      A16S
ATOM  18030  C3*  A   A 865     169.648 122.275 -18.662  1.00 18.54      A16S
ATOM  18031  O3*  A   A 865     170.494 123.419 -18.635  1.00 18.54      A16S
ATOM  18032  P    C   A 866     170.497 124.445 -19.871  1.00 34.98      A16S
ATOM  18033  O1P  C   A 866     171.453 125.533 -19.557  1.00 35.53      A16S
ATOM  18034  O2P  C   A 866     169.105 124.776 -20.242  1.00 35.53      A16S
ATOM  18035  O5*  C   A 866     171.105 123.622 -21.085  1.00 34.98      A16S
ATOM  18036  C5*  C   A 866     172.476 123.188 -21.061  1.00 34.98      A16S
ATOM  18037  C4*  C   A 866     172.746 122.233 -22.195  1.00 34.98      A16S
ATOM  18038  O4*  C   A 866     172.028 120.993 -21.995  1.00 34.98      A16S
ATOM  18039  C1*  C   A 866     171.641 120.473 -23.248  1.00 34.98      A16S
ATOM  18040  N1   C   A 866     170.182 120.281 -23.264  1.00 35.53      A16S
ATOM  18041  C6   C   A 866     169.341 121.163 -22.656  1.00 35.53      A16S
ATOM  18042  C2   C   A 866     169.673 119.166 -23.923  1.00 35.53      A16S
ATOM  18043  O2   C   A 866     170.463 118.383 -24.481  1.00 35.53      A16S
ATOM  18044  N3   C   A 866     168.345 118.959 -23.942  1.00 35.53      A16S
ATOM  18045  C4   C   A 866     167.537 119.812 -23.333  1.00 35.53      A16S
ATOM  18046  N4   C   A 866     166.240 119.543 -23.350  1.00 35.53      A16S
ATOM  18047  C5   C   A 866     168.024 120.969 -22.670  1.00 35.53      A16S
ATOM  18048  C2*  C   A 866     172.132 121.432 -24.330  1.00 34.98      A16S
ATOM  18049  O2*  C   A 866     173.382 120.991 -24.807  1.00 34.98      A16S
ATOM  18050  C3*  C   A 866     172.291 122.721 -23.551  1.00 34.98      A16S
ATOM  18051  O3*  C   A 866     173.275 123.531 -24.141  1.00 34.98      A16S
ATOM  18052  P    G   A 867     172.858 124.535 -25.308  1.00 27.69      A16S
ATOM  18053  O1P  G   A 867     174.092 125.261 -25.733  1.00 35.80      A16S
ATOM  18054  O2P  G   A 867     171.674 125.301 -24.860  1.00 35.80      A16S
ATOM  18055  O5*  G   A 867     172.345 123.565 -26.457  1.00 27.69      A16S
ATOM  18056  C5*  G   A 867     171.230 123.936 -27.270  1.00 27.69      A16S
ATOM  18057  C4*  G   A 867     170.282 122.784 -27.396  1.00 27.69      A16S
ATOM  18058  O4*  G   A 867     169.826 122.392 -26.082  1.00 27.69      A16S
ATOM  18059  C1*  G   A 867     168.432 122.135 -26.111  1.00 27.69      A16S
ATOM  18060  N9   G   A 867     167.784 123.220 -25.375  1.00 35.80      A16S
ATOM  18061  C4   G   A 867     166.437 123.394 -25.100  1.00 35.80      A16S
ATOM  18062  N3   G   A 867     165.440 122.553 -25.412  1.00 35.80      A16S
ATOM  18063  C2   G   A 867     164.269 123.029 -25.050  1.00 35.80      A16S
ATOM  18064  N2   G   A 867     163.165 122.329 -25.281  1.00 35.80      A16S
ATOM  18065  N1   G   A 867     164.090 124.227 -24.438  1.00 35.80      A16S
ATOM  18066  C6   G   A 867     165.098 125.110 -24.115  1.00 35.80      A16S
ATOM  18067  O6   G   A 867     164.831 126.182 -23.583  1.00 35.80      A16S
ATOM  18068  C5   G   A 867     166.351 124.617 -24.480  1.00 35.80      A16S
ATOM  18069  N7   G   A 867     167.605 125.183 -24.326  1.00 35.80      A16S
ATOM  18070  C8   G   A 867     168.421 124.318 -24.859  1.00 35.80      A16S
ATOM  18071  C2*  G   A 867     168.027 122.137 -27.590  1.00 27.69      A16S
ATOM  18072  O2*  G   A 867     168.210 120.843 -28.127  1.00 27.69      A16S
ATOM  18073  C3*  G   A 867     169.030 123.109 -28.179  1.00 27.69      A16S
ATOM  18074  O3*  G   A 867     169.250 122.884 -29.562  1.00 27.69      A16S
ATOM  18075  P    C   A 868     168.596 123.871 -30.648  1.00 31.77      A16S
ATOM  18076  O1P  C   A 868     169.276 123.597 -31.943  1.00 50.45      A16S
ATOM  18077  O2P  C   A 868     168.559 125.263 -30.119  1.00 50.45      A16S
ATOM  18078  O5*  C   A 868     167.095 123.358 -30.755  1.00 31.77      A16S
ATOM  18079  C5*  C   A 868     166.814 121.955 -30.842  1.00 31.77      A16S
ATOM  18080  C4*  C   A 868     165.340 121.705 -30.685  1.00 31.77      A16S
ATOM  18081  O4*  C   A 868     164.959 121.761 -29.285  1.00 31.77      A16S
ATOM  18082  C1*  C   A 868     163.626 122.243 -29.186  1.00 31.77      A16S
ATOM  18083  N1   C   A 868     163.635 123.524 -28.465  1.00 50.45      A16S
ATOM  18084  C6   C   A 868     164.785 124.239 -28.316  1.00 50.45      A16S
ATOM  18085  C2   C   A 868     162.428 124.026 -27.979  1.00 50.45      A16S
ATOM  18086  O2   C   A 868     161.413 123.310 -28.021  1.00 50.45      A16S
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ATOM  18087  N3  C   A 868     162.398 125.268 -27.456  1.00 50.45      A16S
ATOM  18088  C4  C   A 868     163.520 125.975 -27.359  1.00 50.45      A16S
ATOM  18089  N4  C   A 868     163.442 127.207 -26.862  1.00 50.45      A16S
ATOM  18090  C5  C   A 868     164.773 125.455 -27.772  1.00 50.45      A16S
ATOM  18091  C2* C   A 868     163.115 122.489 -30.611  1.00 31.77      A16S
ATOM  18092  O2* C   A 868     162.407 121.381 -31.142  1.00 31.77      A16S
ATOM  18093  C3* C   A 868     164.411 122.700 -31.361  1.00 31.77      A16S
ATOM  18094  O3* C   A 868     164.210 122.483 -32.733  1.00 31.77      A16S
ATOM  18095  P   G   A 869     164.116 123.749 -33.703  1.00 25.14      A16S
ATOM  18096  O1P G   A 869     163.810 123.300 -35.083  1.00 43.79      A16S
ATOM  18097  O2P G   A 869     165.315 124.603 -33.436  1.00 43.79      A16S
ATOM  18098  O5* G   A 869     162.847 124.554 -33.187  1.00 25.14      A16S
ATOM  18099  C5* G   A 869     161.538 123.962 -33.167  1.00 25.14      A16S
ATOM  18100  C4* G   A 869     160.549 124.902 -32.512  1.00 25.14      A16S
ATOM  18101  O4* G   A 869     160.974 125.193 -31.157  1.00 25.14      A16S
ATOM  18102  C1* G   A 869     160.686 126.541 -30.850  1.00 25.14      A16S
ATOM  18103  N9  G   A 869     161.931 127.221 -30.550  1.00 43.79      A16S
ATOM  18104  C4  G   A 869     162.082 128.282 -29.716  1.00 43.79      A16S
ATOM  18105  N3  G   A 869     161.106 128.861 -29.001  1.00 43.79      A16S
ATOM  18106  C2  G   A 869     161.550 129.894 -28.317  1.00 43.79      A16S
ATOM  18107  N2  G   A 869     160.709 130.610 -27.565  1.00 43.79      A16S
ATOM  18108  N1  G   A 869     162.852 130.311 -28.323  1.00 43.79      A16S
ATOM  18109  C6  G   A 869     163.876 129.724 -29.053  1.00 43.79      A16S
ATOM  18110  O6  G   A 869     165.028 130.189 -28.995  1.00 43.79      A16S
ATOM  18111  C5  G   A 869     163.409 128.624 -29.798  1.00 43.79      A16S
ATOM  18112  N7  G   A 869     164.083 127.777 -30.658  1.00 43.79      A16S
ATOM  18113  C8  G   A 869     163.167 126.953 -31.072  1.00 43.79      A16S
ATOM  18114  C2* G   A 869     160.010 127.176 -32.062  1.00 25.14      A16S
ATOM  18115  O2* G   A 869     158.613 127.224 -31.868  1.00 25.14      A16S
ATOM  18116  C3* G   A 869     160.450 126.253 -33.184  1.00 25.14      A16S
ATOM  18117  O3* G   A 869     159.505 126.210 -34.218  1.00 25.14      A16S
ATOM  18118  P   U   A 870     159.708 127.138 -35.488  1.00 28.93      A16S
ATOM  18119  O1P U   A 870     160.845 126.562 -36.229  1.00 56.74      A16S
ATOM  18120  O2P U   A 870     159.752 128.548 -35.052  1.00 56.74      A16S
ATOM  18121  O5* U   A 870     158.399 126.909 -36.349  1.00 28.93      A16S
ATOM  18122  C5* U   A 870     158.067 125.606 -36.815  1.00 28.93      A16S
ATOM  18123  C4* U   A 870     156.946 125.678 -37.809  1.00 28.93      A16S
ATOM  18124  O4* U   A 870     155.707 126.012 -37.138  1.00 28.93      A16S
ATOM  18125  C1* U   A 870     155.110 127.130 -37.758  1.00 28.93      A16S
ATOM  18126  N1  U   A 870     154.492 127.973 -36.728  1.00 56.74      A16S
ATOM  18127  C6  U   A 870     155.208 128.414 -35.646  1.00 56.74      A16S
ATOM  18128  C2  U   A 870     153.160 128.302 -36.882  1.00 56.74      A16S
ATOM  18129  O2  U   A 870     152.492 127.943 -37.833  1.00 56.74      A16S
ATOM  18130  N3  U   A 870     152.634 129.068 -35.876  1.00 56.74      A16S
ATOM  18131  C4  U   A 870     153.287 129.519 -34.751  1.00 56.74      A16S
ATOM  18132  O4  U   A 870     152.644 130.079 -33.863  1.00 56.74      A16S
ATOM  18133  C5  U   A 870     154.668 129.153 -34.678  1.00 56.74      A16S
ATOM  18134  C2* U   A 870     156.215 127.851 -38.509  1.00 28.93      A16S
ATOM  18135  O2* U   A 870     155.621 128.526 -39.601  1.00 28.93      A16S
ATOM  18136  C3* U   A 870     157.134 126.699 -38.915  1.00 28.93      A16S
ATOM  18137  O3* U   A 870     156.729 126.127 -40.143  1.00 28.93      A16S
ATOM  18138  P   U   A 871     157.830 125.853 -41.268  1.00 31.56      A16S
ATOM  18139  O1P U   A 871     158.905 126.856 -41.088  1.00 39.83      A16S
ATOM  18140  O2P U   A 871     157.146 125.727 -42.568  1.00 39.83      A16S
ATOM  18141  O5* U   A 871     158.453 124.461 -40.841  1.00 31.56      A16S
ATOM  18142  C5* U   A 871     157.644 123.281 -40.761  1.00 31.56      A16S
ATOM  18143  C4* U   A 871     158.502 122.124 -40.335  1.00 31.56      A16S
ATOM  18144  O4* U   A 871     159.569 121.954 -41.309  1.00 31.56      A16S
ATOM  18145  C1* U   A 871     160.817 122.042 -40.664  1.00 31.56      A16S
ATOM  18146  N1  U   A 871     161.790 122.675 -41.565  1.00 39.83      A16S
ATOM  18147  C6  U   A 871     161.651 123.960 -42.002  1.00 39.83      A16S
ATOM  18148  C2  U   A 871     162.886 121.929 -41.917  1.00 39.83      A16S
ATOM  18149  O2  U   A 871     163.002 120.746 -41.634  1.00 39.83      A16S
ATOM  18150  N3  U   A 871     163.842 122.601 -42.629  1.00 39.83      A16S
ATOM  18151  C4  U   A 871     163.799 123.901 -43.042  1.00 39.83      A16S
ATOM  18152  O4  U   A 871     164.815 124.413 -43.522  1.00 39.83      A16S
ATOM  18153  C5  U   A 871     162.591 124.581 -42.713  1.00 39.83      A16S
ATOM  18154  C2* U   A 871     160.581 122.799 -39.361  1.00 31.56      A16S
ATOM  18155  O2* U   A 871     161.534 122.432 -38.392  1.00 31.56      A16S
ATOM  18156  C3* U   A 871     159.186 122.323 -38.985  1.00 31.56      A16S
ATOM  18157  O3* U   A 871     159.309 121.065 -38.353  1.00 31.56      A16S
ATOM  18158  P   A   A 872     158.080 120.473 -37.524  1.00 36.91      A16S
ATOM  18159  O1P A   A 872     158.289 119.000 -37.489  1.00 37.59      A16S
ATOM  18160  O2P A   A 872     156.826 121.034 -38.102  1.00 37.59      A16S
ATOM  18161  O5* A   A 872     158.309 121.061 -36.069  1.00 36.91      A16S
ATOM  18162  C5* A   A 872     159.594 120.992 -35.501  1.00 36.91      A16S
ATOM  18163  C4* A   A 872     159.504 120.754 -34.030  1.00 36.91      A16S
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ATOM  18164  O4*  A   A 872     159.218 121.988 -33.334  1.00 36.91      A16S
ATOM  18165  C1*  A   A 872     158.388 121.700 -32.252  1.00 36.91      A16S
ATOM  18166  N9   A   A 872     157.775 122.933 -31.777  1.00 37.59      A16S
ATOM  18167  C4   A   A 872     156.775 123.651 -32.376  1.00 37.59      A16S
ATOM  18168  N3   A   A 872     156.159 123.373 -33.535  1.00 37.59      A16S
ATOM  18169  C2   A   A 872     155.223 124.277 -33.788  1.00 37.59      A16S
ATOM  18170  N1   A   A 872     154.854 125.342 -33.065  1.00 37.59      A16S
ATOM  18171  C6   A   A 872     155.489 125.584 -31.902  1.00 37.59      A16S
ATOM  18172  N6   A   A 872     155.108 126.631 -31.169  1.00 37.59      A16S
ATOM  18173  C5   A   A 872     156.512 124.709 -31.526  1.00 37.59      A16S
ATOM  18174  N7   A   A 872     157.348 124.671 -30.419  1.00 37.59      A16S
ATOM  18175  C8   A   A 872     158.080 123.604 -30.619  1.00 37.59      A16S
ATOM  18176  C2*  A   A 872     157.468 120.622 -32.806  1.00 36.91      A16S
ATOM  18177  O2*  A   A 872     156.800 120.001 -31.720  1.00 36.91      A16S
ATOM  18178  C3*  A   A 872     158.489 119.739 -33.536  1.00 36.91      A16S
ATOM  18179  O3*  A   A 872     159.159 118.971 -32.558  1.00 36.91      A16S
ATOM  18180  P    A   A 873     159.730 117.521 -32.922  1.00 21.62      A16S
ATOM  18181  O1P  A   A 873     161.075 117.712 -33.503  1.00 41.32      A16S
ATOM  18182  O2P  A   A 873     158.713 116.739 -33.666  1.00 41.32      A16S
ATOM  18183  O5*  A   A 873     159.921 116.902 -31.474  1.00 21.62      A16S
ATOM  18184  C5*  A   A 873     158.804 116.756 -30.589  1.00 21.62      A16S
ATOM  18185  C4*  A   A 873     159.101 117.406 -29.268  1.00 21.62      A16S
ATOM  18186  O4*  A   A 873     160.483 117.160 -28.930  1.00 21.62      A16S
ATOM  18187  C1*  A   A 873     161.153 118.385 -28.749  1.00 21.62      A16S
ATOM  18188  N9   A   A 873     162.527 118.242 -29.234  1.00 41.32      A16S
ATOM  18189  C4   A   A 873     163.649 118.585 -28.528  1.00 41.32      A16S
ATOM  18190  N3   A   A 873     163.700 119.149 -27.318  1.00 41.32      A16S
ATOM  18191  C2   A   A 873     164.958 119.321 -26.935  1.00 41.32      A16S
ATOM  18192  N1   A   A 873     166.085 118.997 -27.564  1.00 41.32      A16S
ATOM  18193  C6   A   A 873     165.997 118.410 -28.770  1.00 41.32      A16S
ATOM  18194  N6   A   A 873     167.118 118.030 -29.368  1.00 41.32      A16S
ATOM  18195  C5   A   A 873     164.718 118.210 -29.310  1.00 41.32      A16S
ATOM  18196  N7   A   A 873     164.283 117.680 -30.516  1.00 41.32      A16S
ATOM  18197  C8   A   A 873     162.978 117.725 -30.424  1.00 41.32      A16S
ATOM  18198  C2*  A   A 873     160.309 119.451 -29.444  1.00 21.62      A16S
ATOM  18199  O2*  A   A 873     160.522 120.711 -28.826  1.00 21.62      A16S
ATOM  18200  C3*  A   A 873     158.902 118.911 -29.212  1.00 21.62      A16S
ATOM  18201  O3*  A   A 873     158.508 119.232 -27.867  1.00 21.62      A16S
ATOM  18202  P    G   A 874     157.003 118.939 -27.369  1.00 32.24      A16S
ATOM  18203  O1P  G   A 874     157.086 118.302 -26.037  1.00 29.07      A16S
ATOM  18204  O2P  G   A 874     156.236 118.278 -28.460  1.00 29.07      A16S
ATOM  18205  O5*  G   A 874     156.386 120.385 -27.180  1.00 32.24      A16S
ATOM  18206  C5*  G   A 874     156.896 121.287 -26.201  1.00 32.24      A16S
ATOM  18207  C4*  G   A 874     156.035 122.513 -26.181  1.00 32.24      A16S
ATOM  18208  O4*  G   A 874     156.157 123.188 -27.460  1.00 32.24      A16S
ATOM  18209  C1*  G   A 874     154.902 123.710 -27.850  1.00 32.24      A16S
ATOM  18210  N9   G   A 874     154.542 123.151 -29.151  1.00 29.07      A16S
ATOM  18211  C4   G   A 874     153.433 123.477 -29.890  1.00 29.07      A16S
ATOM  18212  N3   G   A 874     152.469 124.342 -29.526  1.00 29.07      A16S
ATOM  18213  C2   G   A 874     151.522 124.433 -30.440  1.00 29.07      A16S
ATOM  18214  N2   G   A 874     150.457 125.228 -30.231  1.00 29.07      A16S
ATOM  18215  N1   G   A 874     151.539 123.752 -31.617  1.00 29.07      A16S
ATOM  18216  C6   G   A 874     152.525 122.870 -32.005  1.00 29.07      A16S
ATOM  18217  O6   G   A 874     152.443 122.321 -33.085  1.00 29.07      A16S
ATOM  18218  C5   G   A 874     153.527 122.740 -31.036  1.00 29.07      A16S
ATOM  18219  N7   G   A 874     154.661 121.948 -31.022  1.00 29.07      A16S
ATOM  18220  C8   G   A 874     155.230 122.221 -29.882  1.00 29.07      A16S
ATOM  18221  C2*  G   A 874     153.896 123.381 -26.745  1.00 32.24      A16S
ATOM  18222  O2*  G   A 874     153.721 124.493 -25.885  1.00 32.24      A16S
ATOM  18223  C3*  G   A 874     154.561 122.188 -26.081  1.00 32.24      A16S
ATOM  18224  O3*  G   A 874     154.147 121.973 -24.758  1.00 32.24      A16S
ATOM  18225  P    C   A 875     152.957 120.943 -24.478  1.00 31.69      A16S
ATOM  18226  O1P  C   A 875     152.751 120.942 -23.007  1.00 30.90      A16S
ATOM  18227  O2P  C   A 875     153.226 119.667 -25.190  1.00 30.90      A16S
ATOM  18228  O5*  C   A 875     151.709 121.625 -25.184  1.00 31.69      A16S
ATOM  18229  C5*  C   A 875     151.182 122.848 -24.677  1.00 31.69      A16S
ATOM  18230  C4*  C   A 875     149.887 123.169 -25.359  1.00 31.69      A16S
ATOM  18231  O4*  C   A 875     150.136 123.557 -26.728  1.00 31.69      A16S
ATOM  18232  C1*  C   A 875     149.101 123.068 -27.559  1.00 31.69      A16S
ATOM  18233  N1   C   A 875     149.713 122.192 -28.562  1.00 30.90      A16S
ATOM  18234  C6   C   A 875     150.874 121.541 -28.280  1.00 30.90      A16S
ATOM  18235  C2   C   A 875     149.099 122.028 -29.802  1.00 30.90      A16S
ATOM  18236  O2   C   A 875     148.065 122.649 -30.048  1.00 30.90      A16S
ATOM  18237  N3   C   A 875     149.654 121.202 -30.703  1.00 30.90      A16S
ATOM  18238  C4   C   A 875     150.785 120.564 -30.411  1.00 30.90      A16S
ATOM  18239  N4   C   A 875     151.304 119.743 -31.321  1.00 30.90      A16S
ATOM  18240  C5   C   A 875     151.439 120.732 -29.168  1.00 30.90      A16S
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ATOM  18241  C2* C   A 875     148.088 122.347 -26.668  1.00 31.69      A16S
ATOM  18242  O2* C   A 875     147.023 123.222 -26.377  1.00 31.69      A16S
ATOM  18243  C3* C   A 875     148.934 122.002 -25.450  1.00 31.69      A16S
ATOM  18244  O3* C   A 875     148.188 121.856 -24.251  1.00 31.69      A16S
ATOM  18245  P    G   A 876     147.617 120.410 -23.860  1.00 21.57      A16S
ATOM  18246  O1P G   A 876     146.779 120.544 -22.639  1.00 36.67      A16S
ATOM  18247  O2P G   A 876     148.741 119.425 -23.880  1.00 36.67      A16S
ATOM  18248  O5* G   A 876     146.668 120.094 -25.087  1.00 21.57      A16S
ATOM  18249  C5* G   A 876     146.494 118.776 -25.557  1.00 21.57      A16S
ATOM  18250  C4* G   A 876     145.565 118.803 -26.722  1.00 21.57      A16S
ATOM  18251  O4* G   A 876     146.160 119.556 -27.794  1.00 21.57      A16S
ATOM  18252  C1* G   A 876     145.744 119.017 -29.035  1.00 21.57      A16S
ATOM  18253  N9   G   A 876     146.909 118.588 -29.793  1.00 36.67      A16S
ATOM  18254  C4   G   A 876     146.893 118.266 -31.111  1.00 36.67      A16S
ATOM  18255  N3   G   A 876     145.818 118.316 -31.908  1.00 36.67      A16S
ATOM  18256  C2   G   A 876     146.107 117.971 -33.136  1.00 36.67      A16S
ATOM  18257  N2   G   A 876     145.154 117.997 -34.069  1.00 36.67      A16S
ATOM  18258  N1   G   A 876     147.350 117.583 -33.548  1.00 36.67      A16S
ATOM  18259  C6   G   A 876     148.471 117.512 -32.740  1.00 36.67      A16S
ATOM  18260  O6   G   A 876     149.548 117.138 -33.213  1.00 36.67      A16S
ATOM  18261  C5   G   A 876     148.179 117.902 -31.418  1.00 36.67      A16S
ATOM  18262  N7   G   A 876     148.998 117.996 -30.302  1.00 36.67      A16S
ATOM  18263  C8   G   A 876     148.201 118.410 -29.360  1.00 36.67      A16S
ATOM  18264  C2* G   A 876     144.836 117.831 -28.748  1.00 21.57      A16S
ATOM  18265  O2* G   A 876     143.494 118.258 -28.834  1.00 21.57      A16S
ATOM  18266  C3* G   A 876     145.263 117.469 -27.341  1.00 21.57      A16S
ATOM  18267  O3* G   A 876     144.233 116.869 -26.635  1.00 21.57      A16S
ATOM  18268  P    C   A 877     144.244 115.297 -26.477  1.00 18.56      A16S
ATOM  18269  O1P C   A 877     143.300 114.939 -25.367  1.00 23.90      A16S
ATOM  18270  O2P C   A 877     145.684 114.913 -26.384  1.00 23.90      A16S
ATOM  18271  O5* C   A 877     143.662 114.796 -27.867  1.00 18.56      A16S
ATOM  18272  C5* C   A 877     142.289 114.938 -28.138  1.00 18.56      A16S
ATOM  18273  C4* C   A 877     141.974 114.355 -29.471  1.00 18.56      A16S
ATOM  18274  O4* C   A 877     142.582 115.160 -30.498  1.00 18.56      A16S
ATOM  18275  C1* C   A 877     142.947 114.335 -31.588  1.00 18.56      A16S
ATOM  18276  N1   C   A 877     144.399 114.416 -31.786  1.00 23.90      A16S
ATOM  18277  C6   C   A 877     145.240 114.672 -30.745  1.00 23.90      A16S
ATOM  18278  C2   C   A 877     144.904 114.194 -33.058  1.00 23.90      A16S
ATOM  18279  O2   C   A 877     144.112 113.977 -33.978  1.00 23.90      A16S
ATOM  18280  N3   C   A 877     146.231 114.210 -33.256  1.00 23.90      A16S
ATOM  18281  C4   C   A 877     147.049 114.421 -32.229  1.00 23.90      A16S
ATOM  18282  N4   C   A 877     148.368 114.368 -32.451  1.00 23.90      A16S
ATOM  18283  C5   C   A 877     146.558 114.680 -30.921  1.00 23.90      A16S
ATOM  18284  C2* C   A 877     142.555 112.902 -31.238  1.00 18.56      A16S
ATOM  18285  O2* C   A 877     141.314 112.560 -31.815  1.00 18.56      A16S
ATOM  18286  C3* C   A 877     142.509 112.966 -29.724  1.00 18.56      A16S
ATOM  18287  O3* C   A 877     141.665 111.969 -29.229  1.00 18.56      A16S
ATOM  18288  P    G   A 878     142.202 110.476 -29.149  1.00 23.97      A16S
ATOM  18289  O1P G   A 878     141.082 109.667 -28.616  1.00 39.89      A16S
ATOM  18290  O2P G   A 878     143.519 110.460 -28.469  1.00 39.89      A16S
ATOM  18291  O5* G   A 878     142.437 110.072 -30.654  1.00 23.97      A16S
ATOM  18292  C5* G   A 878     141.328 109.848 -31.472  1.00 23.97      A16S
ATOM  18293  C4* G   A 878     141.777 109.338 -32.789  1.00 23.97      A16S
ATOM  18294  O4* G   A 878     142.623 110.328 -33.413  1.00 23.97      A16S
ATOM  18295  C1* G   A 878     143.557 109.674 -34.251  1.00 23.97      A16S
ATOM  18296  N9   G   A 878     144.899 110.057 -33.833  1.00 39.89      A16S
ATOM  18297  C4   G   A 878     146.016 110.051 -34.621  1.00 39.89      A16S
ATOM  18298  N3   G   A 878     146.067 109.672 -35.907  1.00 39.89      A16S
ATOM  18299  C2   G   A 878     147.280 109.785 -36.402  1.00 39.89      A16S
ATOM  18300  N2   G   A 878     147.513 109.449 -37.675  1.00 39.89      A16S
ATOM  18301  N1   G   A 878     148.357 110.233 -35.694  1.00 39.89      A16S
ATOM  18302  C6   G   A 878     148.329 110.615 -34.367  1.00 39.89      A16S
ATOM  18303  O6   G   A 878     149.365 110.986 -33.816  1.00 39.89      A16S
ATOM  18304  C5   G   A 878     147.031 110.504 -33.821  1.00 39.89      A16S
ATOM  18305  N7   G   A 878     146.566 110.778 -32.543  1.00 39.89      A16S
ATOM  18306  C8   G   A 878     145.296 110.494 -32.596  1.00 39.89      A16S
ATOM  18307  C2* G   A 878     143.305 108.170 -34.132  1.00 23.97      A16S
ATOM  18308  O2* G   A 878     142.412 107.766 -35.161  1.00 23.97      A16S
ATOM  18309  C3* G   A 878     142.642 108.096 -32.771  1.00 23.97      A16S
ATOM  18310  O3* G   A 878     141.890 106.916 -32.586  1.00 23.97      A16S
ATOM  18311  P    C   A 879     142.472 105.777 -31.630  1.00 27.17      A16S
ATOM  18312  O1P C   A 879     141.378 104.820 -31.317  1.00 31.27      A16S
ATOM  18313  O2P C   A 879     143.157 106.481 -30.516  1.00 31.27      A16S
ATOM  18314  O5* C   A 879     143.584 105.100 -32.553  1.00 27.17      A16S
ATOM  18315  C5* C   A 879     143.189 104.290 -33.671  1.00 27.17      A16S
ATOM  18316  C4* C   A 879     144.359 103.981 -34.587  1.00 27.17      A16S
ATOM  18317  O4* C   A 879     144.823 105.182 -35.262  1.00 27.17      A16S
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ATOM  18318  C1*  C   A 879     146.208 105.069 -35.534  1.00 27.17      A16S
ATOM  18319  N1   C   A 879     146.936 105.979 -34.641  1.00 31.27      A16S
ATOM  18320  C6   C   A 879     146.417 106.328 -33.430  1.00 31.27      A16S
ATOM  18321  C2   C   A 879     148.197 106.432 -35.019  1.00 31.27      A16S
ATOM  18322  O2   C   A 879     148.618 106.161 -36.151  1.00 31.27      A16S
ATOM  18323  N3   C   A 879     148.925 107.154 -34.146  1.00 31.27      A16S
ATOM  18324  C4   C   A 879     148.427 107.442 -32.947  1.00 31.27      A16S
ATOM  18325  N4   C   A 879     149.188 108.115 -32.098  1.00 31.27      A16S
ATOM  18326  C5   C   A 879     147.127 107.044 -32.560  1.00 31.27      A16S
ATOM  18327  C2*  C   A 879     146.616 103.659 -35.127  1.00 27.17      A16S
ATOM  18328  O2*  C   A 879     146.416 102.824 -36.238  1.00 27.17      A16S
ATOM  18329  C3*  C   A 879     145.625 103.376 -34.009  1.00 27.17      A16S
ATOM  18330  O3*  C   A 879     145.516 101.994 -33.733  1.00 27.17      A16S
ATOM  18331  P    C   A 880     146.424 101.353 -32.576  1.00 29.00      A16S
ATOM  18332  O1P  C   A 880     145.849 100.038 -32.248  1.00 32.91      A16S
ATOM  18333  O2P  C   A 880     146.636 102.360 -31.515  1.00 32.91      A16S
ATOM  18334  O5*  C   A 880     147.800 101.081 -33.307  1.00 29.00      A16S
ATOM  18335  C5*  C   A 880     147.795 100.387 -34.553  1.00 29.00      A16S
ATOM  18336  C4*  C   A 880     149.155 100.418 -35.181  1.00 29.00      A16S
ATOM  18337  O4*  C   A 880     149.524 101.782 -35.482  1.00 29.00      A16S
ATOM  18338  C1*  C   A 880     150.924 101.920 -35.361  1.00 29.00      A16S
ATOM  18339  N1   C   A 880     151.207 102.888 -34.302  1.00 32.91      A16S
ATOM  18340  C6   C   A 880     150.350 103.061 -33.255  1.00 32.91      A16S
ATOM  18341  C2   C   A 880     152.390 103.620 -34.373  1.00 32.91      A16S
ATOM  18342  O2   C   A 880     153.153 103.443 -35.349  1.00 32.91      A16S
ATOM  18343  N3   C   A 880     152.680 104.498 -33.382  1.00 32.91      A16S
ATOM  18344  C4   C   A 880     151.842 104.646 -32.357  1.00 32.91      A16S
ATOM  18345  N4   C   A 880     152.178 105.499 -31.397  1.00 32.91      A16S
ATOM  18346  C5   C   A 880     150.628 103.919 -32.270  1.00 32.91      A16S
ATOM  18347  C2*  C   A 880     151.492 100.557 -34.981  1.00 29.00      A16S
ATOM  18348  O2*  C   A 880     151.833  99.828 -36.142  1.00 29.00      A16S
ATOM  18349  C3*  C   A 880     150.294  99.921 -34.318  1.00 29.00      A16S
ATOM  18350  O3*  C   A 880     150.420  98.528 -34.337  1.00 29.00      A16S
ATOM  18351  P    G   A 881     151.044  97.804 -33.067  1.00 22.13      A16S
ATOM  18352  O1P  G   A 881     150.932  96.346 -33.324  1.00 25.88      A16S
ATOM  18353  O2P  G   A 881     150.407  98.390 -31.873  1.00 25.88      A16S
ATOM  18354  O5*  G   A 881     152.564  98.282 -33.056  1.00 22.13      A16S
ATOM  18355  C5*  G   A 881     153.453  97.936 -34.123  1.00 22.13      A16S
ATOM  18356  C4*  G   A 881     154.855  98.418 -33.833  1.00 22.13      A16S
ATOM  18357  O4*  G   A 881     154.909  99.861 -33.945  1.00 22.13      A16S
ATOM  18358  C1*  G   A 881     155.856 100.375 -33.019  1.00 22.13      A16S
ATOM  18359  N9   G   A 881     155.169 101.204 -32.032  1.00 25.88      A16S
ATOM  18360  C4   G   A 881     155.766 102.075 -31.165  1.00 25.88      A16S
ATOM  18361  N3   G   A 881     157.079 102.364 -31.116  1.00 25.88      A16S
ATOM  18362  C2   G   A 881     157.348 103.241 -30.176  1.00 25.88      A16S
ATOM  18363  N2   G   A 881     158.592 103.683 -30.010  1.00 25.88      A16S
ATOM  18364  N1   G   A 881     156.413 103.760 -29.332  1.00 25.88      A16S
ATOM  18365  C6   G   A 881     155.062 103.455 -29.354  1.00 25.88      A16S
ATOM  18366  O6   G   A 881     154.307 103.950 -28.516  1.00 25.88      A16S
ATOM  18367  C5   G   A 881     154.753 102.558 -30.378  1.00 25.88      A16S
ATOM  18368  N7   G   A 881     153.534 102.032 -30.764  1.00 25.88      A16S
ATOM  18369  C8   G   A 881     153.826 101.238 -31.751  1.00 25.88      A16S
ATOM  18370  C2*  G   A 881     156.499  99.186 -32.314  1.00 22.13      A16S
ATOM  18371  O2*  G   A 881     157.672  98.857 -33.014  1.00 22.13      A16S
ATOM  18372  C3*  G   A 881     155.416  98.125 -32.449  1.00 22.13      A16S
ATOM  18373  O3*  G   A 881     155.931  96.806 -32.303  1.00 22.13      A16S
ATOM  18374  P    C   A 882     155.863  96.080 -30.863  1.00 24.54      A16S
ATOM  18375  O1P  C   A 882     156.385  94.690 -31.024  1.00 34.43      A16S
ATOM  18376  O2P  C   A 882     154.509  96.290 -30.280  1.00 34.43      A16S
ATOM  18377  O5*  C   A 882     156.892  96.885 -29.955  1.00 24.54      A16S
ATOM  18378  C5*  C   A 882     158.266  96.952 -30.316  1.00 24.54      A16S
ATOM  18379  C4*  C   A 882     158.954  98.075 -29.587  1.00 24.54      A16S
ATOM  18380  O4*  C   A 882     158.280  99.332 -29.843  1.00 24.54      A16S
ATOM  18381  C1*  C   A 882     158.404 100.175 -28.710  1.00 24.54      A16S
ATOM  18382  N1   C   A 882     157.063 100.510 -28.200  1.00 34.43      A16S
ATOM  18383  C6   C   A 882     155.956  99.836 -28.628  1.00 34.43      A16S
ATOM  18384  C2   C   A 882     156.948 101.506 -27.241  1.00 34.43      A16S
ATOM  18385  O2   C   A 882     157.949 102.148 -26.925  1.00 34.43      A16S
ATOM  18386  N3   C   A 882     155.748 101.750 -26.686  1.00 34.43      A16S
ATOM  18387  C4   C   A 882     154.682 101.048 -27.070  1.00 34.43      A16S
ATOM  18388  N4   C   A 882     153.525 101.276 -26.450  1.00 34.43      A16S
ATOM  18389  C5   C   A 882     154.758 100.069 -28.092  1.00 34.43      A16S
ATOM  18390  C2*  C   A 882     159.232  99.420 -27.672  1.00 24.54      A16S
ATOM  18391  O2*  C   A 882     160.578  99.795 -27.862  1.00 24.54      A16S
ATOM  18392  C3*  C   A 882     159.001  97.975 -28.080  1.00 24.54      A16S
ATOM  18393  O3*  C   A 882     160.081  97.154 -27.700  1.00 24.54      A16S
ATOM  18394  P    C   A 883     160.074  96.452 -26.260  1.00 27.58      A16S
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ATOM  18395  O1P C   A 883     161.165  95.445 -26.218  1.00 32.12      A16S
ATOM  18396  O2P C   A 883     158.677  96.028 -26.009  1.00 32.12      A16S
ATOM  18397  O5* C   A 883     160.475  97.628 -25.267  1.00 27.58      A16S
ATOM  18398  C5* C   A 883     161.708  98.341 -25.458  1.00 27.58      A16S
ATOM  18399  C4* C   A 883     161.938  99.311 -24.337  1.00 27.58      A16S
ATOM  18400  O4* C   A 883     161.008 100.412 -24.444  1.00 27.58      A16S
ATOM  18401  C1* C   A 883     160.577 100.796 -23.153  1.00 27.58      A16S
ATOM  18402  N1  C   A 883     159.110 100.633 -23.083  1.00 32.12      A16S
ATOM  18403  C6  C   A 883     158.450  99.776 -23.917  1.00 32.12      A16S
ATOM  18404  C2  C   A 883     158.405 101.380 -22.158  1.00 32.12      A16S
ATOM  18405  O2  C   A 883     159.028 102.120 -21.400  1.00 32.12      A16S
ATOM  18406  N3  C   A 883     157.066 101.279 -22.106  1.00 32.12      A16S
ATOM  18407  C4  C   A 883     156.433 100.460 -22.933  1.00 32.12      A16S
ATOM  18408  N4  C   A 883     155.114 100.405 -22.855  1.00 32.12      A16S
ATOM  18409  C5  C   A 883     157.124  99.663 -23.876  1.00 32.12      A16S
ATOM  18410  C2* C   A 883     161.343  99.950 -22.134  1.00 27.58      A16S
ATOM  18411  O2* C   A 883     162.495 100.647 -21.714  1.00 27.58      A16S
ATOM  18412  C3* C   A 883     161.715  98.728 -22.960  1.00 27.58      A16S
ATOM  18413  O3* C   A 883     162.886  98.080 -22.483  1.00 27.58      A16S
ATOM  18414  P   U   A 884     162.739  96.778 -21.556  1.00 24.91      A16S
ATOM  18415  O1P U   A 884     164.107  96.258 -21.304  1.00 44.54      A16S
ATOM  18416  O2P U   A 884     161.685  95.886 -22.111  1.00 44.54      A16S
ATOM  18417  O5* U   A 884     162.200  97.367 -20.194  1.00 24.91      A16S
ATOM  18418  C5* U   A 884     162.910  98.417 -19.559  1.00 24.91      A16S
ATOM  18419  C4* U   A 884     162.276  98.733 -18.245  1.00 24.91      A16S
ATOM  18420  O4* U   A 884     161.015  99.418 -18.454  1.00 24.91      A16S
ATOM  18421  C1* U   A 884     160.017  98.790 -17.691  1.00 24.91      A16S
ATOM  18422  N1  U   A 884     158.722  99.006 -18.354  1.00 44.54      A16S
ATOM  18423  C6  U   A 884     158.312  98.247 -19.407  1.00 44.54      A16S
ATOM  18424  C2  U   A 884     157.924 100.019 -17.862  1.00 44.54      A16S
ATOM  18425  O2  U   A 884     158.270 100.749 -16.950  1.00 44.54      A16S
ATOM  18426  N3  U   A 884     156.712 100.158 -18.483  1.00 44.54      A16S
ATOM  18427  C4  U   A 884     156.234  99.416 -19.525  1.00 44.54      A16S
ATOM  18428  O4  U   A 884     155.080  99.585 -19.909  1.00 44.54      A16S
ATOM  18429  C5  U   A 884     157.129  98.416 -19.996  1.00 44.54      A16S
ATOM  18430  C2* U   A 884     160.482  97.346 -17.490  1.00 24.91      A16S
ATOM  18431  O2* U   A 884     159.933  96.798 -16.309  1.00 24.91      A16S
ATOM  18432  C3* U   A 884     161.991  97.528 -17.363  1.00 24.91      A16S
ATOM  18433  O3* U   A 884     162.308  97.883 -16.040  1.00 24.91      A16S
ATOM  18434  P   G   A 885     163.194  96.900 -15.148  1.00 27.62      A16S
ATOM  18435  O1P G   A 885     163.197  95.583 -15.833  1.00 33.35      A16S
ATOM  18436  O2P G   A 885     162.703  97.018 -13.740  1.00 33.35      A16S
ATOM  18437  O5* G   A 885     164.681  97.462 -15.219  1.00 27.62      A16S
ATOM  18438  C5* G   A 885     164.932  98.842 -15.471  1.00 27.62      A16S
ATOM  18439  C4* G   A 885     166.307  99.220 -14.998  1.00 27.62      A16S
ATOM  18440  O4* G   A 885     166.392  99.035 -13.567  1.00 27.62      A16S
ATOM  18441  C1* G   A 885     167.719  98.694 -13.210  1.00 27.62      A16S
ATOM  18442  N9  G   A 885     167.705  97.361 -12.624  1.00 33.35      A16S
ATOM  18443  C4  G   A 885     168.726  96.766 -11.917  1.00 33.35      A16S
ATOM  18444  N3  G   A 885     169.908  97.327 -11.616  1.00 33.35      A16S
ATOM  18445  C2  G   A 885     170.687  96.504 -10.958  1.00 33.35      A16S
ATOM  18446  N2  G   A 885     171.897  96.911 -10.580  1.00 33.35      A16S
ATOM  18447  N1  G   A 885     170.337  95.227 -10.623  1.00 33.35      A16S
ATOM  18448  C6  G   A 885     169.125  94.628 -10.926  1.00 33.35      A16S
ATOM  18449  O6  G   A 885     168.912  93.466 -10.591  1.00 33.35      A16S
ATOM  18450  C5  G   A 885     168.279  95.502 -11.625  1.00 33.35      A16S
ATOM  18451  N7  G   A 885     166.998  95.307 -12.116  1.00 33.35      A16S
ATOM  18452  C8  G   A 885     166.696  96.438 -12.694  1.00 33.35      A16S
ATOM  18453  C2* G   A 885     168.540  98.686 -14.491  1.00 27.62      A16S
ATOM  18454  O2* G   A 885     169.125  99.953 -14.695  1.00 27.62      A16S
ATOM  18455  C3* G   A 885     167.464  98.396 -15.518  1.00 27.62      A16S
ATOM  18456  O3* G   A 885     167.875  98.734 -16.818  1.00 27.62      A16S
ATOM  18457  P   G   A 886     168.608  97.620 -17.702  1.00 28.99      A16S
ATOM  18458  O1P G   A 886     168.817  98.225 -19.037  1.00 33.27      A16S
ATOM  18459  O2P G   A 886     167.859  96.346 -17.578  1.00 33.27      A16S
ATOM  18460  O5* G   A 886     170.016  97.411 -16.987  1.00 28.99      A16S
ATOM  18461  C5* G   A 886     170.995  98.462 -16.982  1.00 28.99      A16S
ATOM  18462  C4* G   A 886     172.300  97.974 -16.402  1.00 28.99      A16S
ATOM  18463  O4* G   A 886     172.159  97.714 -14.987  1.00 28.99      A16S
ATOM  18464  C1* G   A 886     173.016  96.655 -14.610  1.00 28.99      A16S
ATOM  18465  N9  G   A 886     172.196  95.537 -14.175  1.00 33.27      A16S
ATOM  18466  C4  G   A 886     172.637  94.384 -13.588  1.00 33.27      A16S
ATOM  18467  N3  G   A 886     173.916  94.085 -13.297  1.00 33.27      A16S
ATOM  18468  C2  G   A 886     174.026  92.896 -12.728  1.00 33.27      A16S
ATOM  18469  N2  G   A 886     175.230  92.442 -12.353  1.00 33.27      A16S
ATOM  18470  N1  G   A 886     172.966  92.064 -12.483  1.00 33.27      A16S
ATOM  18471  C6  G   A 886     171.643  92.345 -12.792  1.00 33.27      A16S
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ATOM  18472  O6  G   A 886     170.760  91.506 -12.558  1.00 33.27      A16S
ATOM  18473  C5  G   A 886     171.510  93.626 -13.379  1.00 33.27      A16S
ATOM  18474  N7  G   A 886     170.382  94.296 -13.816  1.00 33.27      A16S
ATOM  18475  C8  G   A 886     170.839  95.422 -14.281  1.00 33.27      A16S
ATOM  18476  C2* G   A 886     173.812  96.269 -15.844  1.00 28.99      A16S
ATOM  18477  O2* G   A 886     174.977  97.067 -15.891  1.00 28.99      A16S
ATOM  18478  C3* G   A 886     172.858  96.675 -16.944  1.00 28.99      A16S
ATOM  18479  O3* G   A 886     173.546  96.846 -18.159  1.00 28.99      A16S
ATOM  18480  P   G   A 887     173.546  95.652 -19.232  1.00 49.75      A16S
ATOM  18481  O1P G   A 887     174.258  96.274 -20.377  1.00 30.80      A16S
ATOM  18482  O2P G   A 887     172.174  95.126 -19.423  1.00 30.80      A16S
ATOM  18483  O5* G   A 887     174.409  94.493 -18.544  1.00 49.75      A16S
ATOM  18484  C5* G   A 887     175.825  94.661 -18.348  1.00 49.75      A16S
ATOM  18485  C4* G   A 887     176.407  93.536 -17.522  1.00 49.75      A16S
ATOM  18486  O4* G   A 887     175.731  93.447 -16.248  1.00 49.75      A16S
ATOM  18487  C1* G   A 887     175.759  92.111 -15.780  1.00 49.75      A16S
ATOM  18488  N9  G   A 887     174.392  91.616 -15.694  1.00 30.80      A16S
ATOM  18489  C4  G   A 887     174.008  90.427 -15.150  1.00 30.80      A16S
ATOM  18490  N3  G   A 887     174.825  89.527 -14.585  1.00 30.80      A16S
ATOM  18491  C2  G   A 887     174.168  88.462 -14.190  1.00 30.80      A16S
ATOM  18492  N2  G   A 887     174.828  87.454 -13.608  1.00 30.80      A16S
ATOM  18493  N1  G   A 887     172.816  88.306 -14.336  1.00 30.80      A16S
ATOM  18494  C6  G   A 887     171.963  89.240 -14.903  1.00 30.80      A16S
ATOM  18495  O6  G   A 887     170.758  89.019 -14.971  1.00 30.80      A16S
ATOM  18496  C5  G   A 887     172.648  90.362 -15.333  1.00 30,80      A16S
ATOM  18497  N7  G   A 887     172.178  91.498 -15.964  1.00 30.80      A16S
ATOM  18498  C8  G   A 887     173.247  92.218 -16.158  1.00 30.80      A16S
ATOM  18499  C2* G   A 887     176.525  91.291 -16.803  1.00 49.75      A16S
ATOM  18500  O2* G   A 887     177.867  91.226 -16.370  1.00 49.75      A16S
ATOM  18501  C3* G   A 887     176.319  92.124 -18.062  1.00 49.75      A16S
ATOM  18502  O3* G   A 887     177.315  91.870 -19.026  1.00 49.75      A16S
ATOM  18503  P   G   A 888     176.941  91.046 -20.349  1.00 31.87      A16S
ATOM  18504  O1P G   A 888     178.255  90.891 -21.022  1.00 33.88      A16S
ATOM  18505  O2P G   A 888     175.837  91.735 -21.059  1.00 33.88      A16S
ATOM  18506  O5* G   A 888     176.408  89.638 -19.816  1.00 31.87      A16S
ATOM  18507  C5* G   A 888     177.338  88.658 -19.355  1.00 31.87      A16S
ATOM  18508  C4* G   A 888     176.630  87.485 -18.738  1.00 31.87      A16S
ATOM  18509  O4* G   A 888     175.726  87.962 -17.724  1.00 31.87      A16S
ATOM  18510  C1* G   A 888     174.574  87.138 -17.680  1.00 31.87      A16S
ATOM  18511  N9  G   A 888     173.439  87.966 -18.060  1.00 33.88      A16S
ATOM  18512  C4  G   A 888     172.110  87.699 -17.867  1.00 33.88      A16S
ATOM  18513  N3  G   A 888     171.597  86.597 -17.293  1.00 33.88      A16S
ATOM  18514  C2  G   A 888     170.274  86.629 -17.265  1.00 33.88      A16S
ATOM  18515  N2  G   A 888     169.582  85.608 -16.741  1.00 33.88      A16S
ATOM  18516  N1  G   A 888     169.522  87.664 -17.749  1.00 33.88      A16S
ATOM  18517  C6  G   A 888     170.034  88.818 -18.332  1.00 33.88      A16S
ATOM  18518  O6  G   A 888     169.264  89.721 -18.719  1.00 33.88      A16S
ATOM  18519  C5  G   A 888     171.444  88.787 -18.384  1.00 33.88      A16S
ATOM  18520  N7  G   A 888     172.336  89.714 -18.897  1.00 33.88      A16S
ATOM  18521  C8  G   A 888     173.504  89.186 -18.686  1.00 33.88      A16S
ATOM  18522  C2* G   A 888     174.807  85.988 -18.654  1.00 31.87      A16S
ATOM  18523  O2* G   A 888     175.431  84.932 -17.945  1.00 31.87      A16S
ATOM  18524  C3* G   A 888     175.771  86.621 -19.643  1.00 31.87      A16S
ATOM  18525  O3* G   A 888     176.551  85.616 -20.265  1.00 31.87      A16S
ATOM  18526  P   A   A 889     176.329  85.293 -21.816  1.00 40.25      A16S
ATOM  18527  O1P A   A 889     174.910  84.920 -21.998  1.00 34.32      A16S
ATOM  18528  O2P A   A 889     177.399  84.366 -22.267  1.00 34.32      A16S
ATOM  18529  O5* A   A 889     176.574  86.685 -22.541  1.00 40.25      A16S
ATOM  18530  C5* A   A 889     176.465  86.780 -23.957  1.00 40.25      A16S
ATOM  18531  C4* A   A 889     175.230  87.560 -24.332  1.00 40.25      A16S
ATOM  18532  O4* A   A 889     174.043  86.867 -23.864  1.00 40.25      A16S
ATOM  18533  C1* A   A 889     173.157  87.816 -23.333  1.00 40.25      A16S
ATOM  18534  N9  A   A 889     172.155  87.154 -22.499  1.00 34.32      A16S
ATOM  18535  C4  A   A 889     170.850  87.560 -22.394  1.00 34.32      A16S
ATOM  18536  N3  A   A 889     170.281  88.609 -23.000  1.00 34.32      A16S
ATOM  18537  C2  A   A 889     169.001  88.702 -22.664  1.00 34.32      A16S
ATOM  18538  N1  A   A 889     168.275  87.922 -21.852  1.00 34.32      A16S
ATOM  18539  C6  A   A 889     168.873  86.870 -21.263  1.00 34.32      A16S
ATOM  18540  N6  A   A 889     168.140  86.092 -20.463  1.00 34.32      A16S
ATOM  18541  C5  A   A 889     170.240  86.663 -21.538  1.00 34.32      A16S
ATOM  18542  N7  A   A 889     171.145  85.707 -21.108  1.00 34.32      A16S
ATOM  18543  C8  A   A 889     172.264  86.046 -21.703  1.00 34.32      A16S
ATOM  18544  C2* A   A 889     174.065  88.866 -22.705  1.00 40.25      A16S
ATOM  18545  O2* A   A 889     173.375  90.088 -22.557  1.00 40.25      A16S
ATOM  18546  C3* A   A 889     175.125  88.983 -23.788  1.00 40.25      A16S
ATOM  18547  O3* A   A 889     174.542  89.770 -24.796  1.00 40.25      A16S
ATOM  18548  P   G   A 890     175.442  90.779 -25.637  1.00 62.90      A16S
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ATOM  18549  O1P G   A 890     176.561  89.983 -26.191  1.00 61.05      A16S
ATOM  18550  O2P G   A 890     175.735  91.968 -24.795  1.00 61.05      A16S
ATOM  18551  O5* G   A 890     174.468  91.226 -26.821  1.00 62.90      A16S
ATOM  18552  C5* G   A 890     174.394  90.487 -28.065  1.00 62.90      A16S
ATOM  18553  C4* G   A 890     173.298  89.444 -28.000  1.00 62.90      A16S
ATOM  18554  O4* G   A 890     172.033  90.059 -27.633  1.00 62.90      A16S
ATOM  18555  C1* G   A 890     171.034  89.594 -28.510  1.00 62.90      A16S
ATOM  18556  N9  G   A 890     169.886  90.493 -28.474  1.00 61.05      A16S
ATOM  18557  C4  G   A 890     168.703  90.244 -27.820  1.00 61.05      A16S
ATOM  18558  N3  G   A 890     168.396  89.119 -27.148  1.00 61.05      A16S
ATOM  18559  C2  G   A 890     167.192  89.171 -26.620  1.00 61.05      A16S
ATOM  18560  N2  G   A 890     166.708  88.118 -25.949  1.00 61.05      A16S
ATOM  18561  N1  G   A 890     166.362  90.255 -26.718  1.00 61.05      A16S
ATOM  18562  C6  G   A 890     166.654  91.428 -27.407  1.00 61.05      A16S
ATOM  18563  O6  G   A 890     165.822  92.354 -27.435  1.00 61.05      A16S
ATOM  18564  C5  G   A 890     167.939  91.371 -28.002  1.00 61.05      A16S
ATOM  18565  N7  G   A 890     168.611  92.300 -28.782  1.00 61.05      A16S
ATOM  18566  C8  G   A 890     169.761  91.735 -29.041  1.00 61.05      A16S
ATOM  18567  C2* G   A 890     171.762  89.341 -29.823  1.00 62.90      A16S
ATOM  18568  O2* G   A 890     171.009  88.515 -30.677  1.00 62.90      A16S
ATOM  18569  C3* G   A 890     173.027  88.672 -29.295  1.00 62.90      A16S
ATOM  18570  O3* G   A 890     172.730  87.312 -28.931  1.00 62.90      A16S
ATOM  18571  P   U   A 891     172.744  86.145 -30.044  1.00 37.09      A16S
ATOM  18572  O1P U   A 891     173.658  86.607 -31.135  1.00 35.33      A16S
ATOM  18573  O2P U   A 891     171.339  85.796 -30.366  1.00 35.33      A16S
ATOM  18574  O5* U   A 891     173.368  84.884 -29.288  1.00 37.09      A16S
ATOM  18575  C5* U   A 891     174.710  84.918 -28.769  1.00 37.09      A16S
ATOM  18576  C4* U   A 891     174.774  84.234 -27.425  1.00 37.09      A16S
ATOM  18577  O4* U   A 891     174.278  85.110 -26.384  1.00 37.09      A16S
ATOM  18578  C1* U   A 891     173.599  84.344 -25.397  1.00 37.09      A16S
ATOM  18579  N1  U   A 891     172.220  84.851 -25.259  1.00 35.33      A16S
ATOM  18580  C6  U   A 891     171.717  85.816 -26.103  1.00 35.33      A16S
ATOM  18581  C2  U   A 891     171.430  84.320 -24.241  1.00 35.33      A16S
ATOM  18582  O2  U   A 891     171.818  83.460 -23.467  1.00 35.33      A16S
ATOM  18583  N3  U   A 891     170.167  84.831 -24.167  1.00 35.33      A16S
ATOM  18584  C4  U   A 891     169.614  85.786 -24.971  1.00 35.33      A16S
ATOM  18585  O4  U   A 891     168.457  86.143 -24.760  1.00 35.33      A16S
ATOM  18586  C5  U   A 891     170.480  86.286 -25.996  1.00 35.33      A16S
ATOM  18587  C2* U   A 891     173.661  82.870 -25.813  1.00 37.09      A16S
ATOM  18588  O2* U   A 891     174.652  82.193 -25.077  1.00 37.09      A16S
ATOM  18589  C3* U   A 891     173.935  82.977 -27.309  1.00 37.09      A16S
ATOM  18590  O3* U   A 891     174.603  81.852 -27.843  1.00 37.09      A16S
ATOM  18591  P   A   A 892     173.809  80.855 -28.820  1.00 42.24      A16S
ATOM  18592  O1P A   A 892     174.837  80.099 -29.578  1.00 45.96      A16S
ATOM  18593  O2P A   A 892     172.778  81.634 -29.559  1.00 45.96      A16S
ATOM  18594  O5* A   A 892     173.068  79.877 -27.815  1.00 42.24      A16S
ATOM  18595  C5* A   A 892     173.768  79.360 -26.699  1.00 42.24      A16S
ATOM  18596  C4* A   A 892     172.807  78.776 -25.719  1.00 42.24      A16S
ATOM  18597  O4* A   A 892     172.157  79.822 -24.967  1.00 42.24      A16S
ATOM  18598  C1* A   A 892     170.838  79.406 -24.643  1.00 42.24      A16S
ATOM  18599  N9  A   A 892     169.894  80.399 -25.156  1.00 45.96      A16S
ATOM  18600  C4  A   A 892     168.563  80.467 -24.837  1.00 45.96      A16S
ATOM  18601  N3  A   A 892     167.885  79.655 -24.015  1.00 45.96      A16S
ATOM  18602  C2  A   A 892     166.619  80.024 -23.944  1.00 45.96      A16S
ATOM  18603  N1  A   A 892     165.997  81.036 -24.557  1.00 45.96      A16S
ATOM  18604  C6  A   A 892     166.712  81.828 -25.379  1.00 45.96      A16S
ATOM  18605  N6  A   A 892     166.095  82.828 -26.004  1.00 45.96      A16S
ATOM  18606  C5  A   A 892     168.065  81.545 -25.533  1.00 45.96      A16S
ATOM  18607  N7  A   A 892     169.060  82.150 -26.281  1.00 45.96      A16S
ATOM  18608  C8  A   A 892     170.123  81.433 -26.025  1.00 45.96      A16S
ATOM  18609  C2* A   A 892     170.612  78.017 -25.251  1.00 42.24      A16S
ATOM  18610  O2* A   A 892     170.820  76.982 -24.311  1.00 42.24      A16S
ATOM  18611  C3* A   A 892     171.668  77.991 -26.335  1.00 42.24      A16S
ATOM  18612  O3* A   A 892     172.030  76.680 -26.675  1.00 42.24      A16S
ATOM  18613  P   C   A 893     171.543  76.087 -28.073  1.00 46.41      A16S
ATOM  18614  O1P C   A 893     172.299  74.834 -28.273  1.00 43.05      A16S
ATOM  18615  O2P C   A 893     171.606  77.169 -29.102  1.00 43.05      A16S
ATOM  18616  O5* C   A 893     170.029  75.715 -27.797  1.00 46.41      A16S
ATOM  18617  C5* C   A 893     169.695  74.879 -26.704  1.00 46.41      A16S
ATOM  18618  C4* C   A 893     168.217  74.917 -26.474  1.00 46.41      A16S
ATOM  18619  O4* C   A 893     167.834  76.171 -25.864  1.00 46.41      A16S
ATOM  18620  C1* C   A 893     166.529  76.523 -26.294  1.00 46.41      A16S
ATOM  18621  N1  C   A 893     166.555  77.864 -26.912  1.00 43.05      A16S
ATOM  18622  C6  C   A 893     167.676  78.339 -27.528  1.00 43.05      A16S
ATOM  18623  C2  C   A 893     165.391  78.646 -26.862  1.00 43.05      A16S
ATOM  18624  O2  C   A 893     164.369  78.191 -26.287  1.00 43.05      A16S
ATOM  18625  N3  C   A 893     165.399  79.872 -27.434  1.00 43.05      A16S
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ATOM  18626  C4   C   A 893     166.498  80.322 -28.032  1.00 43.05      A16S
ATOM  18627  N4   C   A 893     166.456  81.543 -28.578  1.00 43.05      A16S
ATOM  18628  C5   C   A 893     167.690  79.547 -28.096  1.00 43.05      A16S
ATOM  18629  C2*  C   A 893     166.052  75.445 -27.264  1.00 46.41      A16S
ATOM  18630  O2*  C   A 893     165.252  74.506 -26.574  1.00 46.41      A16S
ATOM  18631  C3*  C   A 893     167.371  74.850 -27.727  1.00 46.41      A16S
ATOM  18632  O3*  C   A 893     167.219  73.531 -28.189  1.00 46.41      A16S
ATOM  18633  P    G   A 894     167.012  73.266 -29.755  1.00 46.61      A16S
ATOM  18634  O1P  G   A 894     167.073  71.782 -29.893  1.00 36.70      A16S
ATOM  18635  O2P  G   A 894     167.957  74.126 -30.530  1.00 36.70      A16S
ATOM  18636  O5*  G   A 894     165.519  73.753 -30.020  1.00 46.61      A16S
ATOM  18637  C5*  G   A 894     164.414  73.136 -29.330  1.00 46.61      A16S
ATOM  18638  C4*  G   A 894     163.148  73.916 -29.573  1.00 46.61      A16S
ATOM  18639  O4*  G   A 894     163.220  75.187 -28.894  1.00 46.61      A16S
ATOM  18640  C1*  G   A 894     162.546  76.176 -29.657  1.00 46.61      A16S
ATOM  18641  N9   G   A 894     163.492  77.237 -29.986  1.00 36.70      A16S
ATOM  18642  C4   G   A 894     163.184  78.487 -30.460  1.00 36.70      A16S
ATOM  18643  N3   G   A 894     161.949  78.949 -30.719  1.00 36.70      A16S
ATOM  18644  C2   G   A 894     161.975  80.180 -31.166  1.00 36.70      A16S
ATOM  18645  N2   G   A 894     160.835  80.796 -31.481  1.00 36.70      A16S
ATOM  18646  N1   G   A 894     163.119  80.905 -31.341  1.00 36.70      A16S
ATOM  18647  C6   G   A 894     164.404  80.456 -31.070  1.00 36.70      A16S
ATOM  18648  O6   G   A 894     165.383  81.209 -31.248  1.00 36.70      A16S
ATOM  18649  C5   G   A 894     164.389  79.131 -30.599  1.00 36.70      A16S
ATOM  18650  N7   G   A 894     165.435  78.305 -30.225  1.00 36.70      A16S
ATOM  18651  C8   G   A 894     164.856  77.192 -29.874  1.00 36.70      A16S
ATOM  18652  C2*  G   A 894     161.976  75.499 -30.895  1.00 46.61      A16S
ATOM  18653  O2*  G   A 894     160.643  75.129 -30.640  1.00 46.61      A16S
ATOM  18654  C3*  G   A 894     162.880  74.291 -31.015  1.00 46.61      A16S
ATOM  18655  O3*  G   A 894     162.245  73.259 -31.715  1.00 46.61      A16S
ATOM  18656  P    G   A 895     162.499  73.126 -33.286  1.00 37.09      A16S
ATOM  18657  O1P  G   A 895     161.872  71.831 -33.663  1.00 39.04      A16S
ATOM  18658  O2P  G   A 895     163.953  73.342 -33.548  1.00 39.04      A16S
ATOM  18659  O5*  G   A 895     161.683  74.358 -33.895  1.00 37.09      A16S
ATOM  18660  C5*  G   A 895     160.251  74.418 -33.762  1.00 37.09      A16S
ATOM  18661  C4*  G   A 895     159.717  75.715 -34.312  1.00 37.09      A16S
ATOM  18662  O4*  G   A 895     160.185  76.802 -33.491  1.00 37.09      A16S
ATOM  18663  C1*  G   A 895     160.482  77.921 -34.302  1.00 37.09      A16S
ATOM  18664  N9   G   A 895     161.902  78.221 -34.149  1.00 39.04      A16S
ATOM  18665  C4   G   A 895     162.522  79.404 -34.443  1.00 39.04      A16S
ATOM  18666  N3   G   A 895     161.928  80.501 -34.927  1.00 39.04      A16S
ATOM  18667  C2   G   A 895     162.783  81.483 -35.090  1.00 39.04      A16S
ATOM  18668  N2   G   A 895     162.359  82.662 -35.531  1.00 39.04      A16S
ATOM  18669  N1   G   A 895     164.115  81.391 -34.822  1.00 39.04      A16S
ATOM  18670  C6   G   A 895     164.745  80.270 -34.322  1.00 39.04      A16S
ATOM  18671  O6   G   A 895     165.960  80.296 -34.099  1.00 39.04      A16S
ATOM  18672  C5   G   A 895     163.841  79.214 -34.129  1.00 39.04      A16S
ATOM  18673  N7   G   A 895     164.052  77.935 -33.647  1.00 39.04      A16S
ATOM  18674  C8   G   A 895     162.876  77.380 -33.681  1.00 39.04      A16S
ATOM  18675  C2*  G   A 895     160.103  77.576 -35.742  1.00 37.09      A16S
ATOM  18676  O2*  G   A 895     158.825  78.092 -36.028  1.00 37.09      A16S
ATOM  18677  C3*  G   A 895     160.162  76.055 -35.720  1.00 37.09      A16S
ATOM  18678  O3*  G   A 895     159.298  75.475 -36.680  1.00 37.09      A16S
ATOM  18679  P    C   A 896     159.856  75.137 -38.147  1.00 37.42      A16S
ATOM  18680  O1P  C   A 896     158.784  74.345 -38.810  1.00 33.83      A16S
ATOM  18681  O2P  C   A 896     161.223  74.565 -38.042  1.00 33.83      A16S
ATOM  18682  O5*  C   A 896     159.979  76.560 -38.854  1.00 37.42      A16S
ATOM  18683  C5*  C   A 896     158.804  77.271 -39.230  1.00 37.42      A16S
ATOM  18684  C4*  C   A 896     159.146  78.645 -39.731  1.00 37.42      A16S
ATOM  18685  O4*  C   A 896     159.702  79.444 -38.657  1.00 37.42      A16S
ATOM  18686  C1*  C   A 896     160.649  80.359 -39.186  1.00 37.42      A16S
ATOM  18687  N1   C   A 896     161.970  80.055 -38.605  1.00 33.83      A16S
ATOM  18688  C6   C   A 896     162.268  78.798 -38.159  1.00 33.83      A16S
ATOM  18689  C2   C   A 896     162.930  81.067 -38.544  1.00 33.83      A16S
ATOM  18690  O2   C   A 896     162.618  82.218 -38.916  1.00 33.83      A16S
ATOM  18691  N3   C   A 896     164.167  80.767 -38.076  1.00 33.83      A16S
ATOM  18692  C4   C   A 896     164.444  79.530 -37.670  1.00 33.83      A16S
ATOM  18693  N4   C   A 896     165.662  79.270 -37.244  1.00 33.83      A16S
ATOM  18694  C5   C   A 896     163.479  78.500 -37.689  1.00 33.83      A16S
ATOM  18695  C2*  C   A 896     160.668  80.166 -40.702  1.00 37.42      A16S
ATOM  18696  O2*  C   A 896     159.802  81.098 -41.318  1.00 37.42      A16S
ATOM  18697  C3*  C   A 896     160.182  78.730 -40.830  1.00 37.42      A16S
ATOM  18698  O3*  C   A 896     159.646  78.457 -42.103  1.00 37.42      A16S
ATOM  18699  P    C   A 897     160.583  77.790 -43.216  1.00 42.83      A16S
ATOM  18700  O1P  C   A 897     159.736  77.473 -44.389  1.00 40.30      A16S
ATOM  18701  O2P  C   A 897     161.344  76.711 -42.554  1.00 40.30      A16S
ATOM  18702  O5*  C   A 897     161.588  78.963 -43.601  1.00 42.83      A16S
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ATOM  18703  C5*  C   A 897     161.073  80.213 -44.071  1.00 42.83      A16S
ATOM  18704  C4*  C   A 897     162.179  81.231 -44.248  1.00 42.83      A16S
ATOM  18705  O4*  C   A 897     162.673  81.701 -42.968  1.00 42.83      A16S
ATOM  18706  C1*  C   A 897     164.029  82.100 -43.101  1.00 42.83      A16S
ATOM  18707  N1   C   A 897     164.850  81.294 -42.194  1.00 40.30      A16S
ATOM  18708  C6   C   A 897     164.408  80.093 -41.729  1.00 40.30      A16S
ATOM  18709  C2   C   A 897     166.096  81.773 -41.826  1.00 40.30      A16S
ATOM  18710  O2   C   A 897     166.453  82.887 -42.238  1.00 40.30      A16S
ATOM  18711  N3   C   A 897     166.877  81.025 -41.026  1.00 40.30      A16S
ATOM  18712  C4   C   A 897     166.437  79.854 -40.580  1.00 40.30      A16S
ATOM  18713  N4   C   A 897     167.231  79.147 -39.789  1.00 40.30      A16S
ATOM  18714  C5   C   A 897     165.160  79.352 -40.924  1.00 40.30      A16S
ATOM  18715  C2*  C   A 897     164.440  81.864 -44.551  1.00 42.83      A16S
ATOM  18716  O2*  C   A 897     164.323  83.077 -45.274  1.00 42.83      A16S
ATOM  18717  C3*  C   A 897     163.434  80.804 -44.978  1.00 42.83      A16S
ATOM  18718  O3*  C   A 897     163.277  80.762 -46.372  1.00 42.83      A16S
ATOM  18719  P    G   A 898     164.024  79.614 -47.188  1.00 35.00      A16S
ATOM  18720  O1P  G   A 898     163.581  79.729 -48.603  1.00 50.75      A16S
ATOM  18721  O2P  G   A 898     163.845  78.329 -46.451  1.00 50.75      A16S
ATOM  18722  O5*  G   A 898     165.561  80.005 -47.059  1.00 35.00      A16S
ATOM  18723  C5*  G   A 898     166.047  81.242 -47.592  1.00 35.00      A16S
ATOM  18724  C4*  G   A 898     167.528  81.360 -47.364  1.00 35.00      A16S
ATOM  18725  O4*  G   A 898     167.803  81.628 -45.969  1.00 35.00      A16S
ATOM  18726  C1*  G   A 898     169.051  81.068 -45.617  1.00 35.00      A16S
ATOM  18727  N9   G   A 898     168.844  80.093 -44.559  1.00 50.75      A16S
ATOM  18728  C4   G   A 898     169.809  79.567 -43.746  1.00 50.75      A16S
ATOM  18729  N3   G   A 898     171.101  79.938 -43.712  1.00 50.75      A16S
ATOM  18730  C2   G   A 898     171.788  79.223 -42.850  1.00 50.75      A16S
ATOM  18731  N2   G   A 898     173.078  79.484 -42.645  1.00 50.75      A16S
ATOM  18732  N1   G   A 898     171.260  78.205 -42.114  1.00 50.75      A16S
ATOM  18733  C6   G   A 898     169.934  77.798 -42.155  1.00 50.75      A16S
ATOM  18734  O6   G   A 898     169.561  76.833 -41.481  1.00 50.75      A16S
ATOM  18735  C5   G   A 898     169.182  78.583 -43.029  1.00 50.75      A16S
ATOM  18736  N7   G   A 898     167.833  78.538 -43.329  1.00 50.75      A16S
ATOM  18737  C8   G   A 898     167.675  79.463 -44.230  1.00 50.75      A16S
ATOM  18738  C2*  G   A 898     169.605  80.359 -46.851  1.00 35.00      A16S
ATOM  18739  O2*  G   A 898     170.525  81.211 -47.491  1.00 35.00      A16S
ATOM  18740  C3*  G   A 898     168.345  80.123 -47.670  1.00 35.00      A16S
ATOM  18741  O3*  G   A 898     168.610  80.008 -49.059  1.00 35.00      A16S
ATOM  18742  P    C   A 899     168.563  78.561 -49.758  1.00 35.98      A16S
ATOM  18743  O1P  C   A 899     167.355  77.861 -49.250  1.00 56.39      A16S
ATOM  18744  O2P  C   A 899     168.772  78.719 -51.224  1.00 56.39      A16S
ATOM  18745  O5*  C   A 899     169.822  77.805 -49.165  1.00 35.98      A16S
ATOM  18746  C5*  C   A 899     170.144  76.477 -49.582  1.00 35.98      A16S
ATOM  18747  C4*  C   A 899     171.633  76.314 -49.597  1.00 35.98      A16S
ATOM  18748  O4*  C   A 899     172.166  77.119 -50.665  1.00 35.98      A16S
ATOM  18749  C1*  C   A 899     173.383  77.687 -50.265  1.00 35.98      A16S
ATOM  18750  N1   C   A 899     173.307  79.128 -50.497  1.00 56.39      A16S
ATOM  18751  C6   C   A 899     172.183  79.840 -50.193  1.00 56.39      A16S
ATOM  18752  C2   C   A 899     174.409  79.758 -51.045  1.00 56.39      A16S
ATOM  18753  O2   C   A 899     175.414  79.082 -51.296  1.00 56.39      A16S
ATOM  18754  N3   C   A 899     174.366  81.084 -51.287  1.00 56.39      A16S
ATOM  18755  C4   C   A 899     173.273  81.776 -50.988  1.00 56.39      A16S
ATOM  18756  N4   C   A 899     173.284  83.084 -51.234  1.00 56.39      A16S
ATOM  18757  C5   C   A 899     172.123  81.157 -50.419  1.00 56.39      A16S
ATOM  18758  C2*  C   A 899     173.674  77.262 -48.827  1.00 35.98      A16S
ATOM  18759  O2*  C   A 899     174.584  76.192 -48.836  1.00 35.98      A16S
ATOM  18760  C3*  C   A 899     172.302  76.833 -48.344  1.00 35.98      A16S
ATOM  18761  O3*  C   A 899     172.375  75.792 -47.395  1.00 35.98      A16S
ATOM  18762  P    A   A 900     172.287  76.138 -45.835  1.00 33.42      A16S
ATOM  18763  O1P  A   A 900     172.354  74.836 -45.111  1.00 29.56      A16S
ATOM  18764  O2P  A   A 900     171.115  77.020 -45.622  1.00 29.56      A16S
ATOM  18765  O5*  A   A 900     173.631  76.963 -45.575  1.00 33.42      A16S
ATOM  18766  C5*  A   A 900     174.910  76.284 -45.602  1.00 33.42      A16S
ATOM  18767  C4*  A   A 900     176.053  77.267 -45.631  1.00 33.42      A16S
ATOM  18768  O4*  A   A 900     175.918  78.108 -46.793  1.00 33.42      A16S
ATOM  18769  C1*  A   A 900     176.341  79.419 -46.491  1.00 33.42      A16S
ATOM  18770  N9   A   A 900     175.229  80.317 -46.802  1.00 29.56      A16S
ATOM  18771  C4   A   A 900     175.305  81.630 -47.190  1.00 29.56      A16S
ATOM  18772  N3   A   A 900     176.402  82.388 -47.277  1.00 29.56      A16S
ATOM  18773  C2   A   A 900     176.092  83.593 -47.745  1.00 29.56      A16S
ATOM  18774  N1   A   A 900     174.905  84.080 -48.119  1.00 29.56      A16S
ATOM  18775  C6   A   A 900     173.830  83.282 -48.025  1.00 29.56      A16S
ATOM  18776  N6   A   A 900     172.655  83.748 -48.428  1.00 29.56      A16S
ATOM  18777  C5   A   A 900     174.018  81.999 -47.520  1.00 29.56      A16S
ATOM  18778  N7   A   A 900     173.135  80.964 -47.280  1.00 29.56      A16S
ATOM  18779  C8   A   A 900     173.897  79.995 -46.842  1.00 29.56      A16S
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ATOM  18780  C2* A   A 900     176.849  79.427 -45.053  1.00 33.42      A16S
ATOM  18781  O2* A   A 900     178.240  79.245 -45.097  1.00 33.42      A16S
ATOM  18782  C3* A   A 900     176.139  78.220 -44.462  1.00 33.42      A16S
ATOM  18783  O3* A   A 900     176.886  77.631 -43.412  1.00 33.42      A16S
ATOM  18784  P   A   A 901     176.681  78.156 -41.911  1.00 28.52      A16S
ATOM  18785  O1P A   A 901     177.577  77.383 -41.017  1.00 30.12      A16S
ATOM  18786  O2P A   A 901     175.218  78.168 -41.633  1.00 30.12      A16S
ATOM  18787  O5* A   A 901     177.216  79.654 -41.975  1.00 28.52      A16S
ATOM  18788  C5* A   A 901     178.616  79.913 -42.024  1.00 28.52      A16S
ATOM  18789  C4* A   A 901     178.868  81.381 -42.220  1.00 28.52      A16S
ATOM  18790  O4* A   A 901     178.308  81.794 -43.483  1.00 28.52      A16S
ATOM  18791  C1* A   A 901     177.786  83.100 -43.373  1.00 28.52      A16S
ATOM  18792  N9  A   A 901     176.360  83.030 -43.674  1.00 30.12      A16S
ATOM  18793  C4  A   A 901     175.619  83.948 -44.368  1.00 30.12      A16S
ATOM  18794  N3  A   A 901     176.047  85.099 -44.913  1.00 30.12      A16S
ATOM  18795  C2  A   A 901     175.035  85.737 -45.494  1.00 30.12      A16S
ATOM  18796  N1  A   A 901     173.749  85.383 -45.569  1.00 30.12      A16S
ATOM  18797  C6  A   A 901     173.363  84.225 -45.000  1.00 30.12      A16S
ATOM  18798  N6  A   A 901     172.083  83.884 -45.041  1.00 30.12      A16S
ATOM  18799  C5  A   A 901     174.331  83.453 -44.385  1.00 30.12      A16S
ATOM  18800  N7  A   A 901     174.261  82.236 -43.737  1.00 30.12      A16S
ATOM  18801  C8  A   A 901     175.486  82.032 -43.328  1.00 30.12      A16S
ATOM  18802  C2* A   A 901     178.082  83.598 -41.962  1.00 28.52      A16S
ATOM  18803  O2* A   A 901     179.302  84.305 -41.959  1.00 28.52      A16S
ATOM  18804  C3* A   A 901     178.233  82.297 -41.198  1.00 28.52      A16S
ATOM  18805  O3* A   A 901     179.085  82.479 -40.086  1.00 28.52      A16S
ATOM  18806  P   G   A 902     178.510  82.241 -38.612  1.00 41.76      A16S
ATOM  18807  O1P G   A 902     179.312  83.102 -37.709  1.00 37.93      A16S
ATOM  18808  O2P G   A 902     178.431  80.769 -38.359  1.00 37.93      A16S
ATOM  18809  O5* G   A 902     177.026  82.814 -38.685  1.00 41.76      A16S
ATOM  18810  C5* G   A 902     176.730  84.175 -38.300  1.00 41.76      A16S
ATOM  18811  C4* G   A 902     175.806  84.819 -39.305  1.00 41.76      A16S
ATOM  18812  O4* G   A 902     175.508  83.860 -40.341  1.00 41.76      A16S
ATOM  18813  C1* G   A 902     174.176  84.017 -40.764  1.00 41.76      A16S
ATOM  18814  N9  G   A 902     173.447  82.814 -40.409  1.00 37.93      A16S
ATOM  18815  C4  G   A 902     172.123  82.604 -40.632  1.00 37.93      A16S
ATOM  18816  N3  G   A 902     171.285  83.474 -41.210  1.00 37.93      A16S
ATOM  18817  C2  G   A 902     170.065  83.003 -41.276  1.00 37.93      A16S
ATOM  18818  N2  G   A 902     169.094  83.752 -41.816  1.00 37.93      A16S
ATOM  18819  N1  G   A 902     169.699  81.769 -40.815  1.00 37.93      A16S
ATOM  18820  C6  G   A 902     170.553  80.859 -40.215  1.00 37.93      A16S
ATOM  18821  O6  G   A 902     170.123  79.780 -39.826  1.00 37.93      A16S
ATOM  18822  C5  G   A 902     171.861  81.353 -40.139  1.00 37.93      A16S
ATOM  18823  N7  G   A 902     173.010  80.779 -39.617  1.00 37.93      A16S
ATOM  18824  C8  G   A 902     173.927  81.686 -39.798  1.00 37.93      A16S
ATOM  18825  C2* G   A 902     173.593  85.221 -40.047  1.00 41.76      A16S
ATOM  18826  O2* G   A 902     173.751  86.331 -40.910  1.00 41.76      A16S
ATOM  18827  C3* G   A 902     174.443  85.248 -38.786  1.00 41.76      A16S
ATOM  18828  O3* G   A 902     174.468  86.518 -38.148  1.00 41.76      A16S
ATOM  18829  P   G   A 903     173.400  86.833 -36.994  1.00 35.86      A16S
ATOM  18830  O1P G   A 903     173.783  88.088 -36.240  1.00 29.97      A16S
ATOM  18831  O2P G   A 903     173.246  85.547 -36.252  1.00 29.97      A16S
ATOM  18832  O5* G   A 903     172.052  87.103 -37.795  1.00 35.86      A16S
ATOM  18833  C5* G   A 903     171.953  88.197 -38.714  1.00 35.86      A16S
ATOM  18834  C4* G   A 903     170.590  88.211 -39.362  1.00 35.86      A16S
ATOM  18835  O4* G   A 903     170.379  86.951 -40.047  1.00 35.86      A16S
ATOM  18836  C1* G   A 903     169.029  86.550 -39.914  1.00 35.86      A16S
ATOM  18837  N9  G   A 903     169.008  85.306 -39.160  1.00 29.97      A16S
ATOM  18838  C4  G   A 903     167.932  84.484 -38.992  1.00 29.97      A16S
ATOM  18839  N3  G   A 903     166.698  84.688 -39.491  1.00 29.97      A16S
ATOM  18840  C2  G   A 903     165.875  83.719 -39.158  1.00 29.97      A16S
ATOM  18841  N2  G   A 903     164.607  83.754 -39.566  1.00 29.97      A16S
ATOM  18842  N1  G   A 903     166.236  82.642 -38.399  1.00 29.97      A16S
ATOM  18843  C6  G   A 903     167.502  82.425 -37.874  1.00 29.97      A16S
ATOM  18844  O6  G   A 903     167.722  81.434 -37.192  1.00 29.97      A16S
ATOM  18845  C5  G   A 903     168.386  83.442 -38.221  1.00 29.97      A16S
ATOM  18846  N7  G   A 903     169.723  83.607 -37.904  1.00 29.97      A16S
ATOM  18847  C8  G   A 903     170.051  84.727 -38.480  1.00 29.97      A16S
ATOM  18848  C2* G   A 903     168.286  87.657 -39.176  1.00 35.86      A16S
ATOM  18849  O2* G   A 903     167.657  88.505 -40.117  1.00 35.86      A16S
ATOM  18850  C3* G   A 903     169.419  88.318 -38.407  1.00 35.86      A16S
ATOM  18851  O3* G   A 903     169.137  89.660 -38.093  1.00 35.86      A16S
ATOM  18852  P   C   A 904     168.706  90.035 -36.601  1.00 35.11      A16S
ATOM  18853  O1P C   A 904     168.756  91.518 -36.537  1.00 44.59      A16S
ATOM  18854  O2P C   A 904     169.476  89.227 -35.621  1.00 44.59      A16S
ATOM  18855  O5* C   A 904     167.190  89.574 -36.518  1.00 35.11      A16S
ATOM  18856  C5* C   A 904     166.213  90.207 -37.337  1.00 35.11      A16S
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ATOM  18857  C4* C   A 904     164.938  89.424 -37.316  1.00 35.11      A16S
ATOM  18858  O4* C   A 904     165.174  88.098 -37.840  1.00 35.11      A16S
ATOM  18859  C1* C   A 904     164.293  87.187 -37.224  1.00 35.11      A16S
ATOM  18860  N1   C   A 904     165.078  86.138 -36.559  1.00 44.59      A16S
ATOM  18861  C6   C   A 904     166.418  86.273 -36.349  1.00 44.59      A16S
ATOM  18862  C2   C   A 904     164.409  84.993 -36.122  1.00 44.59      A16S
ATOM  18863  O2   C   A 904     163.194  84.886 -36.346  1.00 44.59      A16S
ATOM  18864  N3   C   A 904     165.092  84.037 -35.469  1.00 44.59      A16S
ATOM  18865  C4   C   A 904     166.390  84.185 -35.253  1.00 44.59      A16S
ATOM  18866  N4   C   A 904     167.011  83.220 -34.594  1.00 44.59      A16S
ATOM  18867  C5   C   A 904     167.106  85.330 -35.703  1.00 44.59      A16S
ATOM  18868  C2* C   A 904     163.447  87.975 -36.224  1.00 35.11      A16S
ATOM  18869  O2* C   A 904     162.236  88.364 -36.840  1.00 35.11      A16S
ATOM  18870  C3* C   A 904     164.335  89.171 -35.954  1.00 35.11      A16S
ATOM  18871  O3* C   A 904     163.591  90.280 -35.519  1.00 35.11      A16S
ATOM  18872  P    U   A 905     163.703  90.747 -33.989  1.00 23.76      A16S
ATOM  18873  O1P U   A 905     162.941  92.034 -33.914  1.00 37.27      A16S
ATOM  18874  O2P U   A 905     165.119  90.709 -33.534  1.00 37.27      A16S
ATOM  18875  O5* U   A 905     162.940  89.593 -33.205  1.00 23.76      A16S
ATOM  18876  C5* U   A 905     161.548  89.396 -33.408  1.00 23.76      A16S
ATOM  18877  C4* U   A 905     161.128  88.061 -32.886  1.00 23.76      A16S
ATOM  18878  O4* U   A 905     161.852  87.015 -33.568  1.00 23.76      A16S
ATOM  18879  C1* U   A 905     161.944  85.883 -32.726  1.00 23.76      A16S
ATOM  18880  N1   U   A 905     163.351  85.514 -32.549  1.00 37.27      A16S
ATOM  18881  C6   U   A 905     164.355  86.438 -32.602  1.00 37.27      A16S
ATOM  18882  C2   U   A 905     163.620  84.192 -32.308  1.00 37.27      A16S
ATOM  18883  O2   U   A 905     162.758  83.349 -32.273  1.00 37.27      A16S
ATOM  18884  N3   U   A 905     164.939  83.892 -32.112  1.00 37.27      A16S
ATOM  18885  C4   U   A 905     165.993  84.767 -32.140  1.00 37.27      A16S
ATOM  18886  O4   U   A 905     167.130  84.350 -31.938  1.00 37.27      A16S
ATOM  18887  C5   U   A 905     165.636  86.119 -32.411  1.00 37.27      A16S
ATOM  18888  C2* U   A 905     161.319  86.259 -31.390  1.00 23.76      A16S
ATOM  18889  O2* U   A 905     159.993  85.760 -31.389  1.00 23.76      A16S
ATOM  18890  C3* U   A 905     161.414  87.778 -31.431  1.00 23.76      A16S
ATOM  18891  O3* U   A 905     160.486  88.409 -30.583  1.00 23.76      A16S
ATOM  18892  P    G   A 906     161.014  89.211 -29.306  1.00 41.36      A16S
ATOM  18893  O1P G   A 906     159.824  89.548 -28.479  1.00 40.39      A16S
ATOM  18894  O2P G   A 906     161.888  90.302 -29.809  1.00 40.39      A16S
ATOM  18895  O5* G   A 906     161.866  88.118 -28.516  1.00 41.36      A16S
ATOM  18896  C5* G   A 906     161.214  86.963 -27.926  1.00 41.36      A16S
ATOM  18897  C4* G   A 906     162.205  86.111 -27.149  1.00 41.36      A16S
ATOM  18898  O4* G   A 906     163.068  85.376 -28.057  1.00 41.36      A16S
ATOM  18899  C1* G   A 906     164.385  85.321 -27.532  1.00 41.36      A16S
ATOM  18900  N9   G   A 906     165.219  86.183 -28.358  1.00 40.39      A16S
ATOM  18901  C4   G   A 906     166.553  86.034 -28.636  1.00 40.39      A16S
ATOM  18902  N3   G   A 906     167.345  85.026 -28.223  1.00 40.39      A16S
ATOM  18903  C2   G   A 906     168.591  85.178 -28.643  1.00 40.39      A16S
ATOM  18904  N2   G   A 906     169.529  84.277 -28.315  1.00 40.39      A16S
ATOM  18905  N1   G   A 906     169.016  86.228 -29.411  1.00 40.39      A16S
ATOM  18906  C6   G   A 906     168.216  87.268 -29.850  1.00 40.39      A16S
ATOM  18907  O6   G   A 906     168.699  88.165 -30.545  1.00 40.39      A16S
ATOM  18908  C5   G   A 906     166.887  87.124 -29.404  1.00 40.39      A16S
ATOM  18909  N7   G   A 906     165.782  87.929 -29.622  1.00 40.39      A16S
ATOM  18910  C8   G   A 906     164.818  87.328 -28.992  1.00 40.39      A16S
ATOM  18911  C2* G   A 906     164.323  85.880 -26.116  1.00 41.36      A16S
ATOM  18912  O2* G   A 906     164.023  84.844 -25.205  1.00 41.36      A16S
ATOM  18913  C3* G   A 906     163.165  86.852 -26.236  1.00 41.36      A16S
ATOM  18914  O3* G   A 906     162.621  87.145 -24.977  1.00 41.36      A16S
ATOM  18915  P    A   A 907     163.343  88.234 -24.061  1.00 39.72      A16S
ATOM  18916  O1P A   A 907     162.427  88.520 -22.935  1.00 47.13      A16S
ATOM  18917  O2P A   A 907     163.804  89.339 -24.943  1.00 47.13      A16S
ATOM  18918  O5* A   A 907     164.639  87.487 -23.529  1.00 39.72      A16S
ATOM  18919  C5* A   A 907     164.816  87.197 -22.137  1.00 39.72      A16S
ATOM  18920  C4* A   A 907     164.303  85.814 -21.832  1.00 39.72      A16S
ATOM  18921  O4* A   A 907     164.825  84.858 -22.787  1.00 39.72      A16S
ATOM  18922  C1* A   A 907     165.038  83.615 -22.149  1.00 39.72      A16S
ATOM  18923  N9   A   A 907     166.459  83.272 -22.237  1.00 47.13      A16S
ATOM  18924  C4   A   A 907     167.040  82.173 -21.654  1.00 47.13      A16S
ATOM  18925  N3   A   A 907     166.436  81.238 -20.910  1.00 47.13      A16S
ATOM  18926  C2   A   A 907     167.308  80.327 -20.514  1.00 47.13      A16S
ATOM  18927  N1   A   A 907     168.614  80.244 -20.754  1.00 47.13      A16S
ATOM  18928  C6   A   A 907     169.192  81.198 -21.502  1.00 47.13      A16S
ATOM  18929  N6   A   A 907     170.501  81.114 -21.733  1.00 47.13      A16S
ATOM  18930  C5   A   A 907     168.376  82.226 -21.990  1.00 47.13      A16S
ATOM  18931  N7   A   A 907     168.642  83.341 -22.772  1.00 47.13      A16S
ATOM  18932  C8   A   A 907     167.477  83.930 -22.887  1.00 47.13      A16S
ATOM  18933  C2* A   A 907     164.567  83.757 -20.707  1.00 39.72      A16S
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ATOM  18934  O2*  A   A 907     163.221  83.352 -20.665  1.00 39.72      A16S
ATOM  18935  C3*  A   A 907     164.705  85.254 -20.487  1.00 39.72      A16S
ATOM  18936  O3*  A   A 907     163.851  85.724 -19.469  1.00 39.72      A16S
ATOM  18937  P    A   A 908     164.422  85.901 -17.983  1.00 55.74      A16S
ATOM  18938  O1P  A   A 908     163.233  86.155 -17.144  1.00 37.10      A16S
ATOM  18939  O2P  A   A 908     165.557  86.869 -17.969  1.00 37.10      A16S
ATOM  18940  O5*  A   A 908     164.949  84.451 -17.602  1.00 55.74      A16S
ATOM  18941  C5*  A   A 908     164.030  83.440 -17.195  1.00 55.74      A16S
ATOM  18942  C4*  A   A 908     164.778  82.232 -16.733  1.00 55.74      A16S
ATOM  18943  O4*  A   A 908     165.607  81.771 -17.827  1.00 55.74      A16S
ATOM  18944  C1*  A   A 908     166.816  81.233 -17.322  1.00 55.74      A16S
ATOM  18945  N9   A   A 908     167.924  82.015 -17.856  1.00 37.10      A16S
ATOM  18946  C4   A   A 908     169.239  81.625 -17.896  1.00 37.10      A16S
ATOM  18947  N3   A   A 908     169.758  80.468 -17.462  1.00 37.10      A16S
ATOM  18948  C2   A   A 908     171.081  80.450 -17.644  1.00 37.10      A16S
ATOM  18949  N1   A   A 908     171.875  81.380 -18.174  1.00 37.10      A16S
ATOM  18950  C6   A   A 908     171.316  82.525 -18.609  1.00 37.10      A16S
ATOM  18951  N6   A   A 908     172.102  83.448 -19.158  1.00 37.10      A16S
ATOM  18952  C5   A   A 908     169.927  82.676 -18.462  1.00 37.10      A16S
ATOM  18953  N7   A   A 908     169.062  83.715 -18.773  1.00 37.10      A16S
ATOM  18954  C8   A   A 908     167.889  83.272 -18.396  1.00 37.10      A16S
ATOM  18955  C2*  A   A 908     166.765  81.330 -15.801  1.00 55.74      A16S
ATOM  18956  O2*  A   A 908     166.342  80.092 -15.261  1.00 55.74      A16S
ATOM  18957  C3*  A   A 908     165.767  82.464 -15.605  1.00 55.74      A16S
ATOM  18958  O3*  A   A 908     165.170  82.462 -14.315  1.00 55.74      A16S
ATOM  18959  P    A   A 909     165.949  83.154 -13.088  1.00 58.83      A16S
ATOM  18960  O1P  A   A 909     164.992  83.188 -11.958  1.00 44.83      A16S
ATOM  18961  O2P  A   A 909     166.601  84.421 -13.542  1.00 44.83      A16S
ATOM  18962  O5*  A   A 909     167.077  82.091 -12.723  1.00 58.83      A16S
ATOM  18963  C5*  A   A 909     166.712  80.763 -12.294  1.00 58.83      A16S
ATOM  18964  C4*  A   A 909     167.942  79.907 -12.123  1.00 58.83      A16S
ATOM  18965  O4*  A   A 909     168.596  79.761 -13.403  1.00 58.83      A16S
ATOM  18966  C1*  A   A 909     169.994  79.791 -13.224  1.00 58.83      A16S
ATOM  18967  N9   A   A 909     170.478  80.975 -13.902  1.00 44.83      A16S
ATOM  18968  C4   A   A 909     171.753  81.198 -14.342  1.00 44.83      A16S
ATOM  18969  N3   A   A 909     172.807  80.375 -14.232  1.00 44.83      A16S
ATOM  18970  C2   A   A 909     173.885  80.927 -14.782  1.00 44.83      A16S
ATOM  18971  N1   A   A 909     174.014  82.116 -15.383  1.00 44.83      A16S
ATOM  18972  C6   A   A 909     172.929  82.913 -15.472  1.00 44.83      A16S
ATOM  18973  N6   A   A 909     173.048  84.096 -16.071  1.00 44.83      A16S
ATOM  18974  C5   A   A 909     171.733  82.447 -14.928  1.00 44.83      A16S
ATOM  18975  N7   A   A 909     170.466  83.003 -14.851  1.00 44.83      A16S
ATOM  18976  C8   A   A 909     169.763  82.092 -14.233  1.00 44.83      A16S
ATOM  18977  C2*  A   A 909     170.282  79.859 -11.726  1.00 58.83      A16S
ATOM  18978  O2*  A   A 909     170.481  78.558 -11.218  1.00 58.83      A16S
ATOM  18979  C3*  A   A 909     169.002  80.480 -11.200  1.00 58.83      A16S
ATOM  18980  O3*  A   A 909     168.768  80.085  -9.864  1.00 58.83      A16S
ATOM  18981  P    C   A 910     168.959  81.148  -8.681  1.00 41.59      A16S
ATOM  18982  O1P  C   A 910     168.956  80.355  -7.424  1.00 54.02      A16S
ATOM  18983  O2P  C   A 910     167.948  82.228  -8.873  1.00 54.02      A16S
ATOM  18984  O5*  C   A 910     170.420  81.747  -8.920  1.00 41.59      A16S
ATOM  18985  C5*  C   A 910     171.571  80.924  -8.733  1.00 41.59      A16S
ATOM  18986  C4*  C   A 910     172.793  81.568  -9.332  1.00 41.59      A16S
ATOM  18987  O4*  C   A 910     172.543  81.873 -10.723  1.00 41.59      A16S
ATOM  18988  C1*  C   A 910     173.356  82.962 -11.119  1.00 41.59      A16S
ATOM  18989  N1   C   A 910     172.509  83.989 -11.708  1.00 54.02      A16S
ATOM  18990  C6   C   A 910     171.148  83.932 -11.606  1.00 54.02      A16S
ATOM  18991  C2   C   A 910     173.122  85.035 -12.376  1.00 54.02      A16S
ATOM  18992  O2   C   A 910     174.363  85.056 -12.436  1.00 54.02      A16S
ATOM  18993  N3   C   A 910     172.358  86.001 -12.935  1.00 54.02      A16S
ATOM  18994  C4   C   A 910     171.029  85.941 -12.833  1.00 54.02      A16S
ATOM  18995  N4   C   A 910     170.313  86.909 -13.398  1.00 54.02      A16S
ATOM  18996  C5   C   A 910     170.377  84.880 -12.147  1.00 54.02      A16S
ATOM  18997  C2*  C   A 910     174.085  83.487  -9.888  1.00 41.59      A16S
ATOM  18998  O2*  C   A 910     175.434  83.057  -9.907  1.00 41.59      A16S
ATOM  18999  C3*  C   A 910     173.246  82.897  -8.762  1.00 41.59      A16S
ATOM  19000  O3*  C   A 910     174.006  82.754  -7.583  1.00 41.59      A16S
ATOM  19001  P    U   A 911     173.784  83.800  -6.397  1.00 28.78      A16S
ATOM  19002  O1P  U   A 911     174.644  83.393  -5.246  1.00 59.30      A16S
ATOM  19003  O2P  U   A 911     172.312  83.921  -6.213  1.00 59.30      A16S
ATOM  19004  O5*  U   A 911     174.301  85.176  -7.012  1.00 28.78      A16S
ATOM  19005  C5*  U   A 911     175.665  85.326  -7.374  1.00 28.78      A16S
ATOM  19006  C4*  U   A 911     175.879  86.621  -8.102  1.00 28.78      A16S
ATOM  19007  O4*  U   A 911     175.092  86.636  -9.310  1.00 28.78      A16S
ATOM  19008  C1*  U   A 911     174.833  87.975  -9.682  1.00 28.78      A16S
ATOM  19009  N1   U   A 911     173.398  88.142  -9.952  1.00 59.30      A16S
ATOM  19010  C6   U   A 911     172.444  87.367  -9.341  1.00 59.30      A16S
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ATOM  19011  C2  U   A 911     173.044  89.125 -10.852  1.00 59.30      A16S
ATOM  19012  O2  U   A 911     173.864  89.832 -11.415  1.00 59.30      A16S
ATOM  19013  N3  U   A 911     171.699  89.253 -11.069  1.00 59.30      A16S
ATOM  19014  C4  U   A 911     170.694  88.517 -10.492  1.00 59.30      A16S
ATOM  19015  O4  U   A 911     169.522  88.770 -10.775  1.00 59.30      A16S
ATOM  19016  C5  U   A 911     171.139  87.516  -9.575  1.00 59.30      A16S
ATOM  19017  C2* U   A 911     175.338  88.878  -8.562  1.00 28.78      A16S
ATOM  19018  O2* U   A 911     176.564  89.441  -8.966  1.00 28.78      A16S
ATOM  19019  C3* U   A 911     175.467  87.897  -7.404  1.00 28.78      A16S
ATOM  19020  O3* U   A 911     176.430  88.332  -6.471  1.00 28.78      A16S
ATOM  19021  P   C   A 912     176.011  89.414  -5.362  1.00 31.49      A16S
ATOM  19022  O1P C   A 912     177.099  89.451  -4.341  1.00 45.20      A16S
ATOM  19023  O2P C   A 912     174.612  89.103  -4.936  1.00 45.20      A16S
ATOM  19024  O5* C   A 912     176.035  90.799  -6.152  1.00 31.49      A16S
ATOM  19025  C5* C   A 912     177.283  91.342  -6.606  1.00 31.49      A16S
ATOM  19026  C4* C   A 912     177.065  92.628  -7.358  1.00 31.49      A16S
ATOM  19027  O4* C   A 912     176.249  92.380  -8.520  1.00 31.49      A16S
ATOM  19028  C1* C   A 912     175.416  93.493  -8.763  1.00 31.49      A16S
ATOM  19029  N1  C   A 912     174.022  93.034  -8.759  1.00 45.20      A16S
ATOM  19030  C6  C   A 912     173.659  91.885  -8.111  1.00 45.20      A16S
ATOM  19031  C2  C   A 912     173.082  93.769  -9.454  1.00 45.20      A16S
ATOM  19032  O2  C   A 912     173.426  94.825  -9.968  1.00 45.20      A16S
ATOM  19033  N3  C   A 912     171.817  93.316  -9.542  1.00 45.20      A16S
ATOM  19034  C4  C   A 912     171.475  92.175  -8.941  1.00 45.20      A16S
ATOM  19035  N4  C   A 912     170.215  91.740  -9.080  1.00 45.20      A16S
ATOM  19036  C5  C   A 912     172.408  91.421  -8.177  1.00 45.20      A16S
ATOM  19037  C2* C   A 912     175.744  94.557  -7.725  1.00 31.49      A16S
ATOM  19038  O2* C   A 912     176.677  95.435  -8.307  1.00 31.49      A16S
ATOM  19039  C3* C   A 912     176.354  93.727  -6.603  1.00 31.49      A16S
ATOM  19040  O3* C   A 912     177.301  94.473  -5.861  1.00 31.49      A16S
ATOM  19041  P   A   A 913     176.902  95.063  -4.424  1.00 54.12      A16S
ATOM  19042  O1P A   A 913     178.179  95.320  -3.732  1.00 22.06      A16S
ATOM  19043  O2P A   A 913     175.884  94.197  -3.789  1.00 22.06      A16S
ATOM  19044  O5* A   A 913     176.204  96.460  -4.737  1.00 54.12      A16S
ATOM  19045  C5* A   A 913     176.972  97.614  -5.149  1.00 54.12      A16S
ATOM  19046  C4* A   A 913     176.037  98.735  -5.504  1.00 54.12      A16S
ATOM  19047  O4* A   A 913     175.097  98.167  -6.431  1.00 54.12      A16S
ATOM  19048  C1* A   A 913     173.805  98.611  -6.128  1.00 54.12      A16S
ATOM  19049  N9  A   A 913     172.888  97.475  -6.192  1.00 22.06      A16S
ATOM  19050  C4  A   A 913     171.708  97.484  -6.890  1.00 22.06      A16S
ATOM  19051  N3  A   A 913     171.172  98.515  -7.551  1.00 22.06      A16S
ATOM  19052  C2  A   A 913     170.062  98.153  -8.154  1.00 22.06      A16S
ATOM  19053  N1  A   A 913     169.462  96.972  -8.168  1.00 22.06      A16S
ATOM  19054  C6  A   A 913     170.016  95.959  -7.484  1.00 22.06      A16S
ATOM  19055  N6  A   A 913     169.396  94.782  -7.489  1.00 22.06      A16S
ATOM  19056  C5  A   A 913     171.208  96.208  -6.807  1.00 22.06      A16S
ATOM  19057  N7  A   A 913     172.036  95.403  -6.039  1.00 22.06      A16S
ATOM  19058  C8  A   A 913     173.009  96.209  -5.682  1.00 22.06      A16S
ATOM  19059  C2* A   A 913     173.837  99.539  -4.917  1.00 54.12      A16S
ATOM  19060  O2* A   A 913     173.678 100.855  -5.386  1.00 54.12      A16S
ATOM  19061  C3* A   A 913     175.211  99.248  -4.331  1.00 54.12      A16S
ATOM  19062  O3* A   A 913     175.886 100.332  -3.632  1.00 54.12      A16S
ATOM  19063  P   A   A 914     176.042 101.819  -4.292  1.00 45.23      A16S
ATOM  19064  O1P A   A 914     177.200 102.427  -3.578  1.00 71.04      A16S
ATOM  19065  O2P A   A 914     174.767 102.580  -4.369  1.00 71.04      A16S
ATOM  19066  O5* A   A 914     176.536 101.543  -5.775  1.00 31.75      A16S
ATOM  19067  C5* A   A 914     175.932 102.169  -6.913  1.00 31.75      A16S
ATOM  19068  C4* A   A 914     175.845 101.153  -8.010  1.00 31.75      A16S
ATOM  19069  O4* A   A 914     174.537 100.549  -7.993  1.00 31.75      A16S
ATOM  19070  C1* A   A 914     174.163 100.175  -9.305  1.00 31.75      A16S
ATOM  19071  N9  A   A 914     172.939 100.909  -9.660  1.00 31.70      A16S
ATOM  19072  C4  A   A 914     172.119 100.677 -10.735  1.00 31.70      A16S
ATOM  19073  N3  A   A 914     172.251  99.726 -11.670  1.00 31.70      A16S
ATOM  19074  C2  A   A 914     171.289  99.827 -12.579  1.00 31.70      A16S
ATOM  19075  N1  A   A 914     170.288 100.699 -12.652  1.00 31.70      A16S
ATOM  19076  C6  A   A 914     170.182 101.637 -11.695  1.00 31.70      A16S
ATOM  19077  N6  A   A 914     169.183 102.513 -11.773  1.00 31.70      A16S
ATOM  19078  C5  A   A 914     171.137 101.639 -10.676  1.00 31.70      A16S
ATOM  19079  N7  A   A 914     171.312 102.452  -9.573  1.00 31.70      A16S
ATOM  19080  C8  A   A 914     172.386 101.976  -9.002  1.00 31.70      A16S
ATOM  19081  C2* A   A 914     175.364 100.477 -10.205  1.00 31.75      A16S
ATOM  19082  O2* A   A 914     176.205  99.331 -10.236  1.00 31.75      A16S
ATOM  19083  C3* A   A 914     176.045 101.600  -9.439  1.00 31.75      A16S
ATOM  19084  O3* A   A 914     177.429 101.640  -9.739  1.00 31.75      A16S
ATOM  19085  P   A   A 915     177.944 102.486 -11.002  1.00 30.22      A16S
ATOM  19086  O1P A   A 915     179.352 102.052 -11.190  1.00 37.95      A16S
ATOM  19087  O2P A   A 915     177.644 103.943 -10.818  1.00 37.95      A16S
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ATOM  19088  O5*  A   A 915     177.051 101.936 -12.210  1.00 30.22      A16S
ATOM  19089  C5*  A   A 915     177.330 100.671 -12.837  1.00 30.22      A16S
ATOM  19090  C4*  A   A 915     176.442 100.472 -14.039  1.00 30.22      A16S
ATOM  19091  O4*  A   A 915     175.077 100.264 -13.601  1.00 30.22      A16S
ATOM  19092  C1*  A   A 915     174.173 100.762 -14.575  1.00 30.22      A16S
ATOM  19093  N9   A   A 915     173.350 101.819 -13.981  1.00 37.95      A16S
ATOM  19094  C4   A   A 915     172.217 102.346 -14.545  1.00 37.95      A16S
ATOM  19095  N3   A   A 915     171.606 101.938 -15.666  1.00 37.95      A16S
ATOM  19096  C2   A   A 915     170.559 102.710 -15.934  1.00 37.95      A16S
ATOM  19097  N1   A   A 915     170.097 103.771 -15.266  1.00 37.95      A16S
ATOM  19098  C6   A   A 915     170.746 104.158 -14.146  1.00 37.95      A16S
ATOM  19099  N6   A   A 915     170.311 105.238 -13.498  1.00 37.95      A16S
ATOM  19100  C5   A   A 915     171.855 103.406 -13.743  1.00 37.95      A16S
ATOM  19101  N7   A   A 915     172.704 103.511 -12.654  1.00 37.95      A16S
ATOM  19102  C8   A   A 915     173.562 102.540 -12.833  1.00 37.95      A16S
ATOM  19103  C2*  A   A 915     175.009 101.369 -15.700  1.00 30.22      A16S
ATOM  19104  O2*  A   A 915     175.146 100.501 -16.808  1.00 30.22      A16S
ATOM  19105  C3*  A   A 915     176.327 101.639 -14.999  1.00 30.22      A16S
ATOM  19106  O3*  A   A 915     177.369 101.768 -15.944  1.00 30.22      A16S
ATOM  19107  P    G   A 916     177.898 103.237 -16.316  1.00 31.21      A16S
ATOM  19108  O1P  G   A 916     178.708 103.140 -17.549  1.00 49.76      A16S
ATOM  19109  O2P  G   A 916     178.486 103.832 -15.075  1.00 49.76      A16S
ATOM  19110  O5*  G   A 916     176.593 104.081 -16.659  1.00 31.21      A16S
ATOM  19111  C5*  G   A 916     175.763 103.702 -17.747  1.00 31.21      A16S
ATOM  19112  C4*  G   A 916     174.604 104.666 -17.917  1.00 31,21      A16S
ATOM  19113  O4*  G   A 916     173.685 104.575 -16.798  1.00 31.21      A16S
ATOM  19114  C1*  G   A 916     172.961 105.785 -16.698  1.00 31.21      A16S
ATOM  19115  N9   G   A 916     173.124 106.343 -15.355  1.00 49.76      A16S
ATOM  19116  C4   G   A 916     172.436 107.417 -14.831  1.00 49.76      A16S
ATOM  19117  N3   G   A 916     171.496 108.136 -15.464  1.00 49.76      A16S
ATOM  19118  C2   G   A 916     171.019 109.098 -14.708  1.00 49.76      A16S
ATOM  19119  N2   G   A 916     170.080 109.905 -15.193  1.00 49.76      A16S
ATOM  19120  N1   G   A 916     171.428 109.344 -13.429  1.00 49.76      A16S
ATOM  19121  C6   G   A 916     172.403 108.627 -12.756  1.00 49.76      A16S
ATOM  19122  O6   G   A 916     172.720 108.949 -11.609  1.00 49.76      A16S
ATOM  19123  C5   G   A 916     172.921 107.577 -13.556  1.00 49.76      A16S
ATOM  19124  N7   G   A 916     173.889 106.622 -13.273  1.00 49.76      A16S
ATOM  19125  C8   G   A 916     173.977 105.915 -14.368  1.00 49.76      A16S
ATOM  19126  C2*  G   A 916     173.466 106.713 -17.803  1.00 31.21      A16S
ATOM  19127  O2*  G   A 916     172.670 106.510 -18.953  1.00 31.21      A16S
ATOM  19128  C3*  G   A 916     174.855 106.160 -18.069  1.00 31.21      A16S
ATOM  19129  O3*  G   A 916     175.269 106.547 -19.379  1.00 31.21      A16S
ATOM  19130  P    G   A 917     175.844 108.040 -19.629  1.00 25.59      A16S
ATOM  19131  O1P  G   A 917     176.400 108.097 -21.012  1.00 25.30      A16S
ATOM  19132  O2P  G   A 917     176.693 108.459 -18.483  1.00 25.30      A16S
ATOM  19133  O5*  G   A 917     174.549 108.963 -19.592  1.00 25.59      A16S
ATOM  19134  C5*  G   A 917     173.523 108.842 -20.595  1.00 25.59      A16S
ATOM  19135  C4*  G   A 917     172.597 110.019 -20.521  1.00 25.59      A16S
ATOM  19136  O4*  G   A 917     171.885 109.976 -19.271  1.00 25.59      A16S
ATOM  19137  C1*  G   A 917     171.765 111.277 -18.748  1.00 25.59      A16S
ATOM  19138  N9   G   A 917     172.413 111.280 -17.445  1.00 25.30      A16S
ATOM  19139  C4   G   A 917     172.229 112.192 -16.438  1.00 25.30      A16S
ATOM  19140  N3   G   A 917     171.435 113.279 -16.487  1.00 25.30      A16S
ATOM  19141  C2   G   A 917     171.435 113.947 -15.345  1.00 25.30      A16S
ATOM  19142  N2   G   A 917     170.696 115.046 -15.224  1.00 25.30      A16S
ATOM  19143  N1   G   A 917     172.154 113.584 -14.240  1.00 25.30      A16S
ATOM  19144  C6   G   A 917     172.974 112.466 -14.157  1.00 25.30      A16S
ATOM  19145  O6   G   A 917     173.562 112.214 -13.094  1.00 25.30      A16S
ATOM  19146  C5   G   A 917     172.992 111.736 -15.390  1.00 25.30      A16S
ATOM  19147  N7   G   A 917     173.668 110.576 -15.744  1.00 25.30      A16S
ATOM  19148  C8   G   A 917     173.300 110.350 -16.970  1.00 25.30      A16S
ATOM  19149  C2*  G   A 917     172.360 112.246 -19.767  1.00 25.59      A16S
ATOM  19150  O2*  G   A 917     171.353 112.644 -20.666  1.00 25.59      A16S
ATOM  19151  C3*  G   A 917     173.317 111.347 -20.512  1.00 25.59      A16S
ATOM  19152  O3*  G   A 917     173.510 111.802 -21.826  1.00 25.59      A16S
ATOM  19153  P    A   A 918     174.650 112.870 -22.115  1.00 27.13      A16S
ATOM  19154  O1P  A   A 918     174.598 113.230 -23.554  1.00 26.53      A16S
ATOM  19155  O2P  A   A 918     175.898 112.335 -21.523  1.00 26.53      A16S
ATOM  19156  O5*  A   A 918     174.191 114.136 -21.273  1.00 27.13      A16S
ATOM  19157  C5*  A   A 918     173.190 115.026 -21.790  1.00 27.13      A16S
ATOM  19158  C4*  A   A 918     172.921 116.134 -20.808  1.00 27.13      A16S
ATOM  19159  O4*  A   A 918     172.524 115.539 -19.550  1.00 27.13      A16S
ATOM  19160  C1*  A   A 918     172.925 116.370 -18.487  1.00 27.13      A16S
ATOM  19161  N9   A   A 918     173.722 115.584 -17.550  1.00 26.53      A16S
ATOM  19162  C4   A   A 918     173.909 115.857 -16.217  1.00 26.53      A16S
ATOM  19163  N3   A   A 918     173.375 116.856 -15.507  1.00 26.53      A16S
ATOM  19164  C2   A   A 918     173.793 116.810 -14.249  1.00 26.53      A16S
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ATOM  19165  N1  A   A 918     174.623 115.955 -13.666  1.00 26.53      A16S
ATOM  19166  C6  A   A 918     175.142 114.966 -14.410  1.00 26.53      A16S
ATOM  19167  N6  A   A 918     175.984 114.114 -13.840  1.00 26.53      A16S
ATOM  19168  C5  A   A 918     174.773 114.891 -15.751  1.00 26.53      A16S
ATOM  19169  N7  A   A 918     175.110 114.002 -16.758  1.00 26.53      A16S
ATOM  19170  C8  A   A 918     174.452 114.452 -17.803  1.00 26.53      A16S
ATOM  19171  C2* A   A 918     173.659 117.570 -19.084  1.00 27.13      A16S
ATOM  19172  O2* A   A 918     172.710 118.605 -19.204  1.00 27.13      A16S
ATOM  19173  C3* A   A 918     174.086 117.044 -20.451  1.00 27.13      A16S
ATOM  19174  O3* A   A 918     174.226 118.092 -21.425  1.00 27.13      A16S
ATOM  19175  P   A   A 919     175.600 118.939 -21.526  1.00 32.49      A16S
ATOM  19176  O1P A   A 919     175.427 119.994 -22.562  1.00 37.83      A16S
ATOM  19177  O2P A   A 919     176.745 118.009 -21.612  1.00 37.83      A16S
ATOM  19178  O5* A   A 919     175.722 119.657 -20.109  1.00 32.49      A16S
ATOM  19179  C5* A   A 919     175.015 120.891 -19.825  1.00 32.49      A16S
ATOM  19180  C4* A   A 919     175.075 121.198 -18.348  1.00 32.49      A16S
ATOM  19181  O4* A   A 919     174.632 120.022 -17.635  1.00 32.49      A16S
ATOM  19182  C1* A   A 919     175.348 119.897 -16.426  1.00 32.49      A16S
ATOM  19183  N9  A   A 919     176.091 118.647 -16.465  1.00 37.83      A16S
ATOM  19184  C4  A   A 919     176.744 118.088 -15.400  1.00 37.83      A16S
ATOM  19185  N3  A   A 919     176.788 118.553 -14.146  1.00 37.83      A16S
ATOM  19186  C2  A   A 919     177.538 117.766 -13.381  1.00 37.83      A16S
ATOM  19187  N1  A   A 919     178.204 116.664 -13.708  1.00 37.83      A16S
ATOM  19188  C6  A   A 919     178.140 116.228 -14.982  1.00 37.83      A16S
ATOM  19189  N6  A   A 919     178.818 115.131 -15.313  1.00 37.83      A16S
ATOM  19190  C5  A   A 919     177.364 116.963 -15.886  1.00 37.83      A16S
ATOM  19191  N7  A   A 919     177.083 116.791 -17.232  1.00 37.83      A16S
ATOM  19192  C8  A   A 919     176.319 117.814 -17.524  1.00 37.83      A16S
ATOM  19193  C2* A   A 919     176.287 121.093 -16.307  1.00 32.49      A16S
ATOM  19194  O2* A   A 919     175.668 122.099 -15.529  1.00 32.49      A16S
ATOM  19195  C3* A   A 919     176.448 121.498 -17.764  1.00 32.49      A16S
ATOM  19196  O3* A   A 919     176.769 122.880 -17.869  1.00 32.49      A16S
ATOM  19197  P   U   A 920     178.258 123.385 -17.512  1.00 33.93      A16S
ATOM  19198  O1P U   A 920     178.314 124.866 -17.738  1.00 42.39      A16S
ATOM  19199  O2P U   A 920     179.201 122.494 -18.229  1.00 42.39      A16S
ATOM  19200  O5* U   A 920     178.415 123.126 -15.947  1.00 33.93      A16S
ATOM  19201  C5* U   A 920     177.761 123.990 -15.015  1.00 33.93      A16S
ATOM  19202  C4* U   A 920     178.377 123.856 -13.656  1.00 33.93      A16S
ATOM  19203  O4* U   A 920     178.130 122.539 -13.122  1.00 33.93      A16S
ATOM  19204  C1* U   A 920     179.223 122.137 -12.325  1.00 33.93      A16S
ATOM  19205  N1  U   A 920     179.779 120.888 -12.871  1.00 42.39      A16S
ATOM  19206  C6  U   A 920     179.578 120.518 -14.184  1.00 42.39      A16S
ATOM  19207  C2  U   A 920     180.505 120.072 -12.005  1.00 42.39      A16S
ATOM  19208  O2  U   A 920     180.751 120.373 -10.847  1.00 42.39      A16S
ATOM  19209  N3  U   A 920     180.937 118.893 -12.546  1.00 42.39      A16S
ATOM  19210  C4  U   A 920     180.744 118.449 -13.829  1.00 42.39      A16S
ATOM  19211  O4  U   A 920     181.125 117.314 -14.135  1.00 42.39      A16S
ATOM  19212  C5  U   A 920     180.021 119.360 -14.678  1.00 42.39      A16S
ATOM  19213  C2* U   A 920     180.218 123.287 -12.310  1.00 33.93      A16S
ATOM  19214  O2* U   A 920     179.919 124.101 -11.200  1.00 33.93      A16S
ATOM  19215  C3* U   A 920     179.876 123.999 -13.602  1.00 33.93      A16S
ATOM  19216  O3* U   A 920     180.258 125.351 -13.550  1.00 33.93      A16S
ATOM  19217  P   U   A 921     181.727 125.760 -14.031  1.00 23.19      A16S
ATOM  19218  O1P U   A 921     181.781 127.238 -14.198  1.00 37.47      A16S
ATOM  19219  O2P U   A 921     182.042 124.877 -15.186  1.00 37.47      A16S
ATOM  19220  O5* U   A 921     182.657 125.296 -12.826  1.00 23.19      A16S
ATOM  19221  C5* U   A 921     182.656 126.005 -11.593  1.00 23.19      A16S
ATOM  19222  C4* U   A 921     183.429 125.238 -10.565  1.00 23.19      A16S
ATOM  19223  O4* U   A 921     182.860 123.914 -10.473  1.00 23.19      A16S
ATOM  19224  C1* U   A 921     183.865 122.986 -10.123  1.00 23.19      A16S
ATOM  19225  N1  U   A 921     183.916 121.932 -11.139  1.00 37.47      A16S
ATOM  19226  C6  U   A 921     183.416 122.115 -12.398  1.00 37.47      A16S
ATOM  19227  C2  U   A 921     184.504 120.736 -10.772  1.00 37.47      A16S
ATOM  19228  O2  U   A 921     184.952 120.534  -9.654  1.00 37.47      A16S
ATOM  19229  N3  U   A 921     184.551 119.785 -11.758  1.00 37.47      A16S
ATOM  19230  C4  U   A 921     184.082 119.903 -13.037  1.00 37.47      A16S
ATOM  19231  O4  U   A 921     184.258 118.977 -13.827  1.00 37.47      A16S
ATOM  19232  C5  U   A 921     183.475 121.166 -13.335  1.00 37.47      A16S
ATOM  19233  C2* U   A 921     185.186 123.739 -10.035  1.00 23.19      A16S
ATOM  19234  O2* U   A 921     185.471 124.071  -8.695  1.00 23.19      A16S
ATOM  19235  C3* U   A 921     184.887 124.966 -10.875  1.00 23.19      A16S
ATOM  19236  O3* U   A 921     185.752 126.023 -10.522  1.00 23.19      A16S
ATOM  19237  P   G   A 922     187.069 126.275 -11.408  1.00 37.17      A16S
ATOM  19238  O1P G   A 922     187.818 127.384 -10.738  1.00 33.58      A16S
ATOM  19239  O2P G   A 922     186.631 126.437 -12.827  1.00 33.58      A16S
ATOM  19240  O5* G   A 922     187.907 124.916 -11.259  1.00 37.17      A16S
ATOM  19241  C5* G   A 922     188.720 124.716 -10.093  1.00 37.17      A16S
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ATOM	19242	C4*	G	A	922	189.238	123.295	-9.987	1.00	37.17	A16S
ATOM	19243	O4*	G	A	922	188.190	122.347	-10.270	1.00	37.17	A16S
ATOM	19244	C1*	G	A	922	188.767	121.107	-10.638	1.00	37.17	A16S
ATOM	19245	N9	G	A	922	188.204	120.678	-11.920	1.00	33.58	A16S
ATOM	19246	C4	G	A	922	188.220	119.398	-12.418	1.00	33.58	A16S
ATOM	19247	N3	G	A	922	188.782	118.332	-11.824	1.00	33.58	A16S
ATOM	19248	C2	G	A	922	188.619	117.237	-12.528	1.00	33.58	A16S
ATOM	19249	N2	G	A	922	189.118	116.085	-12.072	1.00	33.58	A16S
ATOM	19250	N1	G	A	922	187.957	117.192	-13.728	1.00	33.58	A16S
ATOM	19251	C6	G	A	922	187.381	118.284	-14.361	1.00	33.58	A16S
ATOM	19252	O6	G	A	922	186.829	118.145	-15.446	1.00	33.58	A16S
ATOM	19253	C5	G	A	922	187.540	119.459	-13.615	1.00	33.58	A16S
ATOM	19254	N7	G	A	922	187.117	120.755	-13.879	1.00	33.58	A16S
ATOM	19255	C8	G	A	922	187.538	121.447	-12.854	1.00	33.58	A16S
ATOM	19256	C2*	G	A	922	190.279	121.298	-10.654	1.00	37.17	A16S
ATOM	19257	O2*	G	A	922	190.777	120.951	-9.378	1.00	37.17	A16S
ATOM	19258	C3*	G	A	922	190.395	122.801	-10.840	1.00	37.17	A16S
ATOM	19259	O3*	G	A	922	191.652	123.214	-10.330	1.00	37.17	A16S
ATOM	19260	P	A	A	923	192.918	123.293	-11.313	1.00	39.62	A16S
ATOM	19261	O1P	A	A	923	194.023	123.925	-10.570	1.00	37.04	A16S
ATOM	19262	O2P	A	A	923	192.493	123.862	-12.611	1.00	37.04	A16S
ATOM	19263	O5*	A	A	923	193.305	121.776	-11.539	1.00	39.62	A16S
ATOM	19264	C5*	A	A	923	193.860	121.011	-10.478	1.00	39.62	A16S
ATOM	19265	C4*	A	A	923	193.961	119.574	-10.896	1.00	39.62	A16S
ATOM	19266	O4*	A	A	923	192.628	119.076	-11.156	1.00	39.62	A16S
ATOM	19267	C1*	A	A	923	192.641	118.213	-12.276	1.00	39.62	A16S
ATOM	19268	N9	A	A	923	191.909	118.880	-13.347	1.00	37.04	A16S
ATOM	19269	C4	A	A	923	191.223	118.271	-14.361	1.00	37.04	A16S
ATOM	19270	N3	A	A	923	191.106	116.951	-14.583	1.00	37.04	A16S
ATOM	19271	C2	A	A	923	190.345	116.728	-15.654	1.00	37.04	A16S
ATOM	19272	N1	A	A	923	189.735	117.611	-16.462	1.00	37.04	A16S
ATOM	19273	C6	A	A	923	189.880	118.924	-16.205	1.00	37.04	A16S
ATOM	19274	N6	A	A	923	189.268	119.792	-16.999	1.00	37.04	A16S
ATOM	19275	C5	A	A	923	190.665	119.291	-15.105	1.00	37.04	A16S
ATOM	19276	N7	A	A	923	191.014	120.523	-14.581	1.00	37.04	A16S
ATOM	19277	C8	A	A	923	191.753	120.225	-13.546	1.00	37.04	A16S
ATOM	19278	C2*	A	A	923	194.100	118.007	-12.652	1.00	39.62	A16S
ATOM	19279	O2*	A	A	923	194.631	116.925	-11.903	1.00	39.62	A16S
ATOM	19280	C3*	A	A	923	194.691	119.328	-12.203	1.00	39.62	A16S
ATOM	19281	O3*	A	A	923	196.092	119.280	-12.065	1.00	39.62	A16S
ATOM	19282	P	C	A	924	197.001	119.784	-13.276	1.00	42.70	A16S
ATOM	19283	O1P	C	A	924	198.378	119.733	-12.720	1.00	34.70	A16S
ATOM	19284	O2P	C	A	924	196.476	121.063	-13.831	1.00	34.70	A16S
ATOM	19285	O5*	C	A	924	196.773	118.664	-14.391	1.00	42.70	A16S
ATOM	19286	C5*	C	A	924	197.154	117.287	-14.153	1.00	42.70	A16S
ATOM	19287	C4*	C	A	924	196.672	116.387	-15.276	1.00	42.70	A16S
ATOM	19288	O4*	C	A	924	195.224	116.438	-15.326	1.00	42.70	A16S
ATOM	19289	C1*	C	A	924	194.786	116.280	-16.664	1.00	42.70	A16S
ATOM	19290	N1	C	A	924	194.077	117.501	-17.075	1.00	34.70	A16S
ATOM	19291	C6	C	A	924	194.455	118.718	-16.600	1.00	34.70	A16S
ATOM	19292	C2	C	A	924	193.016	117.398	-17.992	1.00	34.70	A16S
ATOM	19293	O2	C	A	924	192.667	116.271	-18.397	1.00	34.70	A16S
ATOM	19294	N3	C	A	924	192.401	118.523	-18.417	1.00	34.70	A16S
ATOM	19295	C4	C	A	924	192.807	119.703	-17.973	1.00	34.70	A16S
ATOM	19296	N4	C	A	924	192.214	120.783	-18.455	1.00	34.70	A16S
ATOM	19297	C5	C	A	924	193.856	119.832	-17.022	1.00	34.70	A16S
ATOM	19298	C2*	C	A	924	196.023	116.049	-17.531	1.00	42.70	A16S
ATOM	19299	O2*	C	A	924	196.246	114.658	-17.717	1.00	42.70	A16S
ATOM	19300	C3*	C	A	924	197.102	116.723	-16.699	1.00	42.70	A16S
ATOM	19301	O3*	C	A	924	198.394	116.247	-17.045	1.00	42.70	A16S
ATOM	19302	P	G	A	925	199.257	117.031	-18.161	1.00	37.79	A16S
ATOM	19303	O1P	G	A	925	200.610	116.439	-18.083	1.00	50.88	A16S
ATOM	19304	O2P	G	A	925	199.090	118.506	-18.047	1.00	50.88	A16S
ATOM	19305	O5*	G	A	925	198.638	116.574	-19.549	1.00	37.79	A16S
ATOM	19306	C5*	G	A	925	198.785	115.221	-20.007	1.00	37.79	A16S
ATOM	19307	C4*	G	A	925	198.090	115.059	-21.326	1.00	37.79	A16S
ATOM	19308	O4*	G	A	925	196.668	115.260	-21.147	1.00	37.79	A16S
ATOM	19309	C1*	G	A	925	196.138	115.956	-22.259	1.00	37.79	A16S
ATOM	19310	N9	G	A	925	195.478	117.168	-21.776	1.00	50.88	A16S
ATOM	19311	C4	G	A	925	194.477	117.873	-22.403	1.00	50.88	A16S
ATOM	19312	N3	G	A	925	193.913	117.572	-23.589	1.00	50.88	A16S
ATOM	19313	C2	G	A	925	192.967	118.438	-23.916	1.00	50.88	A16S
ATOM	19314	N2	G	A	925	192.278	118.287	-25.060	1.00	50.88	A16S
ATOM	19315	N1	G	A	925	192.621	119.517	-23.147	1.00	50.88	A16S
ATOM	19316	C6	G	A	925	193.191	119.842	-21.927	1.00	50.88	A16S
ATOM	19317	O6	G	A	925	192.802	120.838	-21.311	1.00	50.88	A16S
ATOM	19318	C5	G	A	925	194.190	118.922	-21.561	1.00	50.88	A16S

ATOM	19319	N7	G	A	925	194.986	118.878	-20.434	1.00	50.88	A16S
ATOM	19320	C8	G	A	925	195.733	117.824	-20.605	1.00	50.88	A16S
ATOM	19321	C2*	G	A	925	197.282	116.199	-23.249	1.00	37.79	A16S
ATOM	19322	O2*	G	A	925	197.261	115.202	-24.255	1.00	37.79	A16S
ATOM	19323	C3*	G	A	925	198.503	116.092	-22.350	1.00	37.79	A16S
ATOM	19324	O3*	G	A	925	199.644	115.643	-23.051	1.00	37.79	A16S
ATOM	19325	P	G	A	926	200.945	116.575	-23.125	1.00	50.28	A16S
ATOM	19326	O1P	G	A	926	202.000	115.845	-22.375	1.00	41.48	A16S
ATOM	19327	O2P	G	A	926	200.576	117.955	-22.731	1.00	41.48	A16S
ATOM	19328	O5*	G	A	926	201.314	116.617	-24.670	1.00	50.28	A16S
ATOM	19329	C5*	G	A	926	200.413	116.082	-25.633	1.00	50.28	A16S
ATOM	19330	C4*	G	A	926	201.133	115.144	-26.555	1.00	50.28	A16S
ATOM	19331	O4*	G	A	926	202.087	114.332	-25.825	1.00	50.28	A16S
ATOM	19332	C1*	G	A	926	202.131	113.027	-26.378	1.00	50.28	A16S
ATOM	19333	N9	G	A	926	201.855	112.066	-25.313	1.00	41.48	A16S
ATOM	19334	C4	G	A	926	202.138	110.709	-25.304	1.00	41.48	A16S
ATOM	19335	N3	G	A	926	202.705	110.003	-26.299	1.00	41.48	A16S
ATOM	19336	C2	G	A	926	202.833	108.721	-25.986	1.00	41.48	A16S
ATOM	19337	N2	G	A	926	203.358	107.867	-26.850	1.00	41.48	A16S
ATOM	19338	N1	G	A	926	202.454	108.176	-24.807	1.00	41.48	A16S
ATOM	19339	C6	G	A	926	201.868	108.868	-23.764	1.00	41.48	A16S
ATOM	19340	O6	G	A	926	201.549	108.259	-22.725	1.00	41.48	A16S
ATOM	19341	C5	G	A	926	201.710	110.256	-24.078	1.00	41.48	A16S
ATOM	19342	N7	G	A	926	201.157	111.291	-23.335	1.00	41.48	A16S
ATOM	19343	C8	G	A	926	201.266	112.341	-24.104	1.00	41.48	A16S
ATOM	19344	C2*	G	A	926	201.141	112.987	-27.543	1.00	50.28	A16S
ATOM	19345	O2*	G	A	926	201.857	113.187	-28.744	1.00	50.28	A16S
ATOM	19346	C3*	G	A	926	200.208	114.148	-27.207	1.00	50.28	A16S
ATOM	19347	O3*	G	A	926	199.559	114.739	-28.322	1.00	50.28	A16S
ATOM	19348	P	G	A	927	198.118	115.428	-28.120	1.00	38.21	A16S
ATOM	19349	O1P	G	A	927	197.423	114.680	-27.038	1.00	41.38	A16S
ATOM	19350	O2P	G	A	927	197.443	115.606	-29.443	1.00	41.38	A16S
ATOM	19351	O5*	G	A	927	198.483	116.872	-27.563	1.00	38.21	A16S
ATOM	19352	C5*	G	A	927	197.530	117.616	-26.813	1.00	38.21	A16S
ATOM	19353	C4*	G	A	927	196.680	118.443	-27.737	1.00	38.21	A16S
ATOM	19354	O4*	G	A	927	195.345	118.487	-27.188	1.00	38.21	A16S
ATOM	19355	C1*	G	A	927	194.776	119.761	-27.422	1.00	38.21	A16S
ATOM	19356	N9	G	A	927	194.618	120.436	-26.143	1.00	41.38	A16S
ATOM	19357	C4	G	A	927	193.882	121.555	-25.938	1.00	41.38	A16S
ATOM	19358	N3	G	A	927	193.150	122.180	-26.870	1.00	41.38	A16S
ATOM	19359	C2	G	A	927	192.587	123.255	-26.396	1.00	41.38	A16S
ATOM	19360	N2	G	A	927	191.818	123.996	-27.196	1.00	41.38	A16S
ATOM	19361	N1	G	A	927	192.735	123.687	-25.102	1.00	41.38	A16S
ATOM	19362	C6	G	A	927	193.487	123.054	-24.126	1.00	41.38	A16S
ATOM	19363	O6	G	A	927	193.564	123.536	-22.991	1.00	41.38	A16S
ATOM	19364	C5	G	A	927	194.087	121.895	-24.623	1.00	41.38	A16S
ATOM	19365	N7	G	A	927	194.913	120.976	-24.000	1.00	41.38	A16S
ATOM	19366	C8	G	A	927	195.201	120.123	-24.939	1.00	41.38	A16S
ATOM	19367	C2*	G	A	927	195.754	120.561	-28.272	1.00	38.21	A16S
ATOM	19368	O2*	G	A	927	195.383	120.446	-29.623	1.00	38.21	A16S
ATOM	19369	C3*	G	A	927	197.076	119.900	-27.913	1.00	38.21	A16S
ATOM	19370	O3*	G	A	927	198.038	120.108	-28.916	1.00	38.21	A16S
ATOM	19371	P	G	A	928	198.807	121.513	-28.985	1.00	46.44	A16S
ATOM	19372	O1P	G	A	928	199.569	121.525	-30.250	1.00	55.09	A16S
ATOM	19373	O2P	G	A	928	199.521	121.721	-27.700	1.00	55.09	A16S
ATOM	19374	O5*	G	A	928	197.655	122.604	-29.138	1.00	46.44	A16S
ATOM	19375	C5*	G	A	928	196.984	122.805	-30.399	1.00	46.44	A16S
ATOM	19376	C4*	G	A	928	196.128	124.059	-30.362	1.00	46.44	A16S
ATOM	19377	O4*	G	A	928	195.075	123.922	-29.365	1.00	46.44	A16S
ATOM	19378	C1*	G	A	928	194.809	125.183	-28.766	1.00	46.44	A16S
ATOM	19379	N9	G	A	928	195.138	125.114	-27.344	1.00	55.09	A16S
ATOM	19380	C4	G	A	928	194.767	126.020	-26.384	1.00	55.09	A16S
ATOM	19381	N3	G	A	928	194.028	127.130	-26.588	1.00	55.09	A16S
ATOM	19382	C2	G	A	928	193.830	127.801	-25.469	1.00	55.09	A16S
ATOM	19383	N2	G	A	928	193.121	128.932	-25.494	1.00	55.09	A16S
ATOM	19384	N1	G	A	928	194.315	127.412	-24.242	1.00	55.09	A16S
ATOM	19385	C6	G	A	928	195.079	126.271	-24.009	1.00	55.09	A16S
ATOM	19386	O6	G	A	928	195.466	126.003	-22.859	1.00	55.09	A16S
ATOM	19387	C5	G	A	928	195.304	125.546	-25.206	1.00	55.09	A16S
ATOM	19388	N7	G	A	928	196.004	124.370	-25.422	1.00	55.09	A16S
ATOM	19389	C8	G	A	928	195.879	124.152	-26.700	1.00	55.09	A16S
ATOM	19390	C2*	G	A	928	195.693	126.211	-29.459	1.00	46.44	A16S
ATOM	19391	O2*	G	A	928	194.966	126.839	-30.492	1.00	46.44	A16S
ATOM	19392	C3*	G	A	928	196.835	125.341	-29.964	1.00	46.44	A16S
ATOM	19393	O3*	G	A	928	197.547	125.963	-31.016	1.00	46.44	A16S
ATOM	19394	P	G	A	929	198.757	126.957	-30.650	1.00	47.14	A16S
ATOM	19395	O1P	G	A	929	199.399	127.381	-31.921	1.00	51.52	A16S

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ATOM  19396  O2P G   A 929     199.584 126.339 -29.575  1.00 51.52      A16S
ATOM  19397  O5* G   A 929     198.022 128.228 -30.054  1.00 47.14      A16S
ATOM  19398  C5* G   A 929     197.121 128.971 -30.864  1.00 47.14      A16S
ATOM  19399  C4* G   A 929     196.646 130.175 -30.116  1.00 47.14      A16S
ATOM  19400  O4* G   A 929     195.824 129.759 -28.998  1.00 47.14      A16S
ATOM  19401  C1* G   A 929     195.988 130.671 -27.930  1.00 47.14      A16S
ATOM  19402  N9  G   A 929     196.488 129.945 -26.767  1.00 51.52      A16S
ATOM  19403  C4  G   A 929     196.422 130.374 -25.463  1.00 51.52      A16S
ATOM  19404  N3  G   A 929     195.907 131.548 -25.042  1.00 51.52      A16S
ATOM  19405  C2  G   A 929     195.951 131.661 -23.732  1.00 51.52      A16S
ATOM  19406  N2  G   A 929     195.469 132.758 -23.153  1.00 51.52      A16S
ATOM  19407  N1  G   A 929     196.467 130.705 -22.893  1.00 51.52      A16S
ATOM  19408  C6  G   A 929     197.012 129.494 -23.297  1.00 51.52      A16S
ATOM  19409  O6  G   A 929     197.457 128.707 -22.454  1.00 51.52      A16S
ATOM  19410  C5  G   A 929     196.969 129.352 -24.712  1.00 51.52      A16S
ATOM  19411  N7  G   A 929     197.399 128.314 -25.532  1.00 51.52      A16S
ATOM  19412  C8  G   A 929     197.096 128.711 -26.740  1.00 51.52      A16S
ATOM  19413  C2* G   A 929     196.958 131.753 -28.397  1.00 47.14      A16S
ATOM  19414  O2* G   A 929     196.242 132.829 -28.977  1.00 47.14      A16S
ATOM  19415  C3* G   A 929     197.729 131.013 -29.470  1.00 47.14      A16S
ATOM  19416  O3* G   A 929     198.338 131.917 -30.357  1.00 47.14      A16S
ATOM  19417  P   C   A 930     199.823 132.422 -30.039  1.00 49.41      A16S
ATOM  19418  O1P C   A 930     200.157 133.411 -31.102  1.00 52.97      A16S
ATOM  19419  O2P C   A 930     200.698 131.238 -29.825  1.00 52.97      A16S
ATOM  19420  O5* C   A 930     199.678 133.179 -28.646  1.00 49.41      A16S
ATOM  19421  C5* C   A 930     198.910 134.382 -28.563  1.00 49.41      A16S
ATOM  19422  C4* C   A 930     198.873 134.903 -27.150  1.00 49.41      A16S
ATOM  19423  O4* C   A 930     198.174 133.980 -26.279  1.00 49.41      A16S
ATOM  19424  C1* C   A 930     198.618 134.172 -24.952  1.00 49.41      A16S
ATOM  19425  N1  C   A 930     199.065 132.898 -24.382  1.00 52.97      A16S
ATOM  19426  C6  C   A 930     199.537 131.886 -25.169  1.00 52.97      A16S
ATOM  19427  C2  C   A 930     199.013 132.745 -22.997  1.00 52.97      A16S
ATOM  19428  O2  C   A 930     198.594 133.689 -22.305  1.00 52.97      A16S
ATOM  19429  N3  C   A 930     199.426 131.582 -22.444  1.00 52.97      A16S
ATOM  19430  C4  C   A 930     199.887 130.603 -23.220  1.00 52.97      A16S
ATOM  19431  N4  C   A 930     200.276 129.481 -22.635  1.00 52.97      A16S
ATOM  19432  C5  C   A 930     199.961 130.735 -24.632  1.00 52.97      A16S
ATOM  19433  C2* C   A 930     199.752 135.188 -24.983  1.00 49.41      A16S
ATOM  19434  O2* C   A 930     199.208 136.441 -24.612  1.00 49.41      A16S
ATOM  19435  C3* C   A 930     200.192 135.127 -26.443  1.00 49.41      A16S
ATOM  19436  O3* C   A 930     200.805 136.338 -26.853  1.00 49.41      A16S
ATOM  19437  P   C   A 931     202.407 136.502 -26.742  1.00 71.96      A16S
ATOM  19438  O1P C   A 931     202.648 137.947 -27.022  1.00 51.56      A16S
ATOM  19439  O2P C   A 931     203.085 135.475 -27.577  1.00 51.56      A16S
ATOM  19440  O5* C   A 931     202.742 136.179 -25.210  1.00 71.96      A16S
ATOM  19441  C5* C   A 931     202.211 137.018 -24.168  1.00 71.96      A16S
ATOM  19442  C4* C   A 931     202.663 136.570 -22.794  1.00 71.96      A16S
ATOM  19443  O4* C   A 931     202.017 135.344 -22.380  1.00 71.96      A16S
ATOM  19444  C1* C   A 931     202.732 134.811 -21.285  1.00 71.96      A16S
ATOM  19445  N1  C   A 931     202.917 133.362 -21.439  1.00 51.56      A16S
ATOM  19446  C6  C   A 931     202.860 132.750 -22.657  1.00 51.56      A16S
ATOM  19447  C2  C   A 931     203.178 132.617 -20.294  1.00 51.56      A16S
ATOM  19448  O2  C   A 931     203.210 133.193 -19.208  1.00 51.56      A16S
ATOM  19449  N3  C   A 931     203.391 131.298 -20.395  1.00 51.56      A16S
ATOM  19450  C4  C   A 931     203.352 130.711 -21.583  1.00 51.56      A16S
ATOM  19451  N4  C   A 931     203.592 129.408 -21.633  1.00 51.56      A16S
ATOM  19452  C5  C   A 931     203.072 131.436 -22.774  1.00 51.56      A16S
ATOM  19453  C2* C   A 931     204.069 135.540 -21.202  1.00 71.96      A16S
ATOM  19454  O2* C   A 931     204.006 136.401 -20.089  1.00 71.96      A16S
ATOM  19455  C3* C   A 931     204.128 136.277 -22.542  1.00 71.96      A16S
ATOM  19456  O3* C   A 931     204.906 137.468 -22.445  1.00 71.96      A16S
ATOM  19457  P   C   A 932     206.476 137.371 -22.085  1.00 34.71      A16S
ATOM  19458  O1P C   A 932     207.066 138.713 -22.337  1.00 29.20      A16S
ATOM  19459  O2P C   A 932     207.077 136.160 -22.720  1.00 29.20      A16S
ATOM  19460  O5* C   A 932     206.468 137.141 -20.514  1.00 34.71      A16S
ATOM  19461  C5* C   A 932     207.663 136.883 -19.816  1.00 34.71      A16S
ATOM  19462  C4* C   A 932     207.344 136.424 -18.432  1.00 34.71      A16S
ATOM  19463  O4* C   A 932     206.354 135.374 -18.483  1.00 34.71      A16S
ATOM  19464  C1* C   A 932     206.685 134.359 -17.555  1.00 34.71      A16S
ATOM  19465  N1  C   A 932     206.838 133.096 -18.299  1.00 29.20      A16S
ATOM  19466  C6  C   A 932     206.695 133.073 -19.658  1.00 29.20      A16S
ATOM  19467  C2  C   A 932     207.135 131.905 -17.600  1.00 29.20      A16S
ATOM  19468  O2  C   A 932     207.269 131.943 -16.379  1.00 29.20      A16S
ATOM  19469  N3  C   A 932     207.270 130.749 -18.286  1.00 29.20      A16S
ATOM  19470  C4  C   A 932     207.125 130.742 -19.613  1.00 29.20      A16S
ATOM  19471  N4  C   A 932     207.253 129.583 -20.250  1.00 29.20      A16S
ATOM  19472  C5  C   A 932     206.832 131.931 -20.350  1.00 29.20      A16S
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ATOM  19473  C2* C   A 932     207.946 134.804 -16.799  1.00 34.71      A16S
ATOM  19474  O2* C   A 932     207.612 135.352 -15.539  1.00 34.71      A16S
ATOM  19475  C3* C   A 932     208.550 135.814 -17.763  1.00 34.71      A16S
ATOM  19476  O3* C   A 932     209.319 136.835 -17.155  1.00 34.71      A16S
ATOM  19477  P   G   A 933     210.897 136.881 -17.405  1.00 37.48      A16S
ATOM  19478  O1P G   A 933     211.432 138.193 -16.954  1.00 36.57      A16S
ATOM  19479  O2P G   A 933     211.187 136.419 -18.784  1.00 36.57      A16S
ATOM  19480  O5* G   A 933     211.406 135.769 -16.403  1.00 37.48      A16S
ATOM  19481  C5* G   A 933     211.278 135.965 -15.016  1.00 37.48      A16S
ATOM  19482  C4* G   A 933     211.534 134.685 -14.308  1.00 37.48      A16S
ATOM  19483  O4* G   A 933     210.550 133.738 -14.762  1.00 37.48      A16S
ATOM  19484  C1* G   A 933     211.089 132.437 -14.697  1.00 37.48      A16S
ATOM  19485  N9  G   A 933     210.925 131.799 -15.994  1.00 36.57      A16S
ATOM  19486  C4  G   A 933     210.900 130.455 -16.208  1.00 36.57      A16S
ATOM  19487  N3  G   A 933     210.989 129.508 -15.256  1.00 36.57      A16S
ATOM  19488  C2  G   A 933     210.929 128.300 -15.769  1.00 36.57      A16S
ATOM  19489  N2  G   A 933     210.955 127.240 -14.972  1.00 36.57      A16S
ATOM  19490  N1  G   A 933     210.824 128.040 -17.107  1.00 36.57      A16S
ATOM  19491  C6  G   A 933     210.744 129.005 -18.106  1.00 36.57      A16S
ATOM  19492  O6  G   A 933     210.669 128.666 -19.286  1.00 36.57      A16S
ATOM  19493  C5  G   A 933     210.774 130.302 -17.572  1.00 36.57      A16S
ATOM  19494  N7  G   A 933     210.699 131.536 -18.204  1.00 36.57      A16S
ATOM  19495  C8  G   A 933     210.791 132.397 -17.228  1.00 36.57      A16S
ATOM  19496  C2* G   A 933     212.554 132.548 -14.283  1.00 37.48      A16S
ATOM  19497  O2* G   A 933     212.660 132.190 -12.920  1.00 37.48      A16S
ATOM  19498  C3* G   A 933     212.858 134.010 -14.607  1.00 37.48      A16S
ATOM  19499  O3* G   A 933     213.932 134.576 -13.851  1.00 37.48      A16S
ATOM  19500  P   C   A 934     215.147 135.320 -14.616  1.00 40.91      A16S
ATOM  19501  O1P C   A 934     215.881 136.132 -13.610  1.00 66.63      A16S
ATOM  19502  O2P C   A 934     214.606 135.985 -15.838  1.00 66.63      A16S
ATOM  19503  O5* C   A 934     216.107 134.121 -15.049  1.00 40.91      A16S
ATOM  19504  C5* C   A 934     216.675 133.238 -14.062  1.00 40.91      A16S
ATOM  19505  C4* C   A 934     217.171 131.965 -14.714  1.00 40.91      A16S
ATOM  19506  O4* C   A 934     218.236 132.283 -15.660  1.00 40.91      A16S
ATOM  19507  C1* C   A 934     219.318 131.411 -15.430  1.00 40.91      A16S
ATOM  19508  N1  C   A 934     220.548 132.004 -15.962  1.00 66.63      A16S
ATOM  19509  C6  C   A 934     221.357 132.787 -15.187  1.00 66.63      A16S
ATOM  19510  C2  C   A 934     220.884 131.741 -17.292  1.00 66.63      A16S
ATOM  19511  O2  C   A 934     220.122 131.028 -17.980  1.00 66.63      A16S
ATOM  19512  N3  C   A 934     222.024 132.269 -17.797  1.00 66.63      A16S
ATOM  19513  C4  C   A 934     222.805 133.033 -17.030  1.00 66.63      A16S
ATOM  19514  N4  C   A 934     223.907 133.546 -17.570  1.00 66.63      A16S
ATOM  19515  C5  C   A 934     222.485 133.313 -15.677  1.00 66.63      A16S
ATOM  19516  C2* C   A 934     219.263 131.098 -13.942  1.00 40.91      A16S
ATOM  19517  O2* C   A 934     220.019 129.953 -13.649  1.00 40.91      A16S
ATOM  19518  C3* C   A 934     217.759 130.915 -13.760  1.00 40.91      A16S
ATOM  19519  O3* C   A 934     217.423 129.604 -14.223  1.00 40.91      A16S
ATOM  19520  P   A   A 935     216.136 128.842 -13.634  1.00 59.61      A16S
ATOM  19521  O1P A   A 935     215.110 129.863 -13.294  1.00 31.57      A16S
ATOM  19522  O2P A   A 935     216.589 127.875 -12.594  1.00 31.57      A16S
ATOM  19523  O5* A   A 935     215.593 128.026 -14.884  1.00 59.61      A16S
ATOM  19524  C5* A   A 935     215.076 126.703 -14.730  1.00 59.61      A16S
ATOM  19525  C4* A   A 935     214.691 126.144 -16.073  1.00 59.61      A16S
ATOM  19526  O4* A   A 935     213.586 126.903 -16.624  1.00 59.61      A16S
ATOM  19527  C1* A   A 935     213.723 126.999 -18.029  1.00 59.61      A16S
ATOM  19528  N9  A   A 935     213.871 128.408 -18.369  1.00 31.57      A16S
ATOM  19529  C4  A   A 935     213.817 128.962 -19.623  1.00 31.57      A16S
ATOM  19530  N3  A   A 935     213.654 128.326 -20.789  1.00 31.57      A16S
ATOM  19531  C2  A   A 935     213.625 129.195 -21.801  1.00 31.57      A16S
ATOM  19532  N1  A   A 935     213.726 130.522 -21.778  1.00 31.57      A16S
ATOM  19533  C6  A   A 935     213.881 131.128 -20.587  1.00 31.57      A16S
ATOM  19534  N6  A   A 935     213.954 132.456 -20.555  1.00 31.57      A16S
ATOM  19535  C5  A   A 935     213.945 130.319 -19.440  1.00 31.57      A16S
ATOM  19536  N7  A   A 935     214.109 130.617 -18.097  1.00 31.57      A16S
ATOM  19537  C8  A   A 935     214.065 129.451 -17.509  1.00 31.57      A16S
ATOM  19538  C2* A   A 935     214.950 126.192 -18.426  1.00 59.61      A16S
ATOM  19539  O2* A   A 935     214.547 124.876 -18.748  1.00 59.61      A16S
ATOM  19540  C3* A   A 935     215.761 126.236 -17.143  1.00 59.61      A16S
ATOM  19541  O3* A   A 935     216.692 125.178 -17.067  1.00 59.61      A16S
ATOM  19542  P   C   A 936     218.160 125.382 -17.677  1.00 44.58      A16S
ATOM  19543  O1P C   A 936     218.872 124.128 -17.326  1.00 30.27      A16S
ATOM  19544  O2P C   A 936     218.711 126.692 -17.223  1.00 30.27      A16S
ATOM  19545  O5* C   A 936     217.904 125.470 -19.251  1.00 44.58      A16S
ATOM  19546  C5* C   A 936     217.482 124.311 -19.983  1.00 44.58      A16S
ATOM  19547  C4* C   A 936     217.287 124.636 -21.442  1.00 44.58      A16S
ATOM  19548  O4* C   A 936     216.262 125.647 -21.566  1.00 44.58      A16S
ATOM  19549  C1* C   A 936     216.514 126.444 -22.710  1.00 44.58      A16S
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ATOM  19550  N1   C   A 936     216.640 127.855 -22.310  1.00 30.27      A16S
ATOM  19551  C6   C   A 936     216.861 128.209 -21.011  1.00 30.27      A16S
ATOM  19552  C2   C   A 936     216.545 128.830 -23.297  1.00 30.27      A16S
ATOM  19553  O2   C   A 936     216.298 128.479 -24.451  1.00 30.27      A16S
ATOM  19554  N3   C   A 936     216.715 130.125 -22.971  1.00 30.27      A16S
ATOM  19555  C4   C   A 936     216.950 130.463 -21.704  1.00 30.27      A16S
ATOM  19556  N4   C   A 936     217.138 131.757 -21.420  1.00 30.27      A16S
ATOM  19557  C5   C   A 936     217.013 129.489 -20.667  1.00 30.27      A16S
ATOM  19558  C2*  C   A 936     217.797 125.934 -23.360  1.00 44.58      A16S
ATOM  19559  O2*  C   A 936     217.461 125.079 -24.431  1.00 44.58      A16S
ATOM  19560  C3*  C   A 936     218.472 125.211 -22.203  1.00 44.58      A16S
ATOM  19561  O3*  C   A 936     219.378 124.216 -22.679  1.00 44.58      A16S
ATOM  19562  P    A   A 937     220.897 124.626 -23.024  1.00 31.72      A16S
ATOM  19563  O1P  A   A 937     221.487 123.428 -23.666  1.00 49.74      A16S
ATOM  19564  O2P  A   A 937     221.558 125.204 -21.816  1.00 49.74      A16S
ATOM  19565  O5*  A   A 937     220.748 125.777 -24.115  1.00 31.72      A16S
ATOM  19566  C5*  A   A 937     220.382 125.448 -25.454  1.00 31.72      A16S
ATOM  19567  C4*  A   A 937     220.040 126.687 -26.239  1.00 31.72      A16S
ATOM  19568  O4*  A   A 937     218.971 127.392 -25.559  1.00 31.72      A16S
ATOM  19569  C1*  A   A 937     219.146 128.790 -25.699  1.00 31.72      A16S
ATOM  19570  N9   A   A 937     219.596 129.315 -24.406  1.00 49.74      A16S
ATOM  19571  C4   A   A 937     219.726 130.640 -24.062  1.00 49.74      A16S
ATOM  19572  N3   A   A 937     219.417 131.712 -24.808  1.00 49.74      A16S
ATOM  19573  C2   A   A 937     219.730 132.830 -24.166  1.00 49.74      A16S
ATOM  19574  N1   A   A 937     220.268 132.986 -22.957  1.00 49.74      A16S
ATOM  19575  C6   A   A 937     220.563 131.886 -22.239  1.00 49.74      A16S
ATOM  19576  N6   A   A 937     221.106 132.033 -21.041  1.00 49.74      A16S
ATOM  19577  C5   A   A 937     220.285 130.646 -22.799  1.00 49.74      A16S
ATOM  19578  N7   A   A 937     220.472 129.353 -22.331  1.00 49.74      A16S
ATOM  19579  C8   A   A 937     220.035 128.601 -23.310  1.00 49.74      A16S
ATOM  19580  C2*  A   A 937     220.265 128.970 -26.720  1.00 31.72      A16S
ATOM  19581  O2*  A   A 937     219.693 128.913 -28.010  1.00 31.72      A16S
ATOM  19582  C3*  A   A 937     221.117 127.744 -26.431  1.00 31.72      A16S
ATOM  19583  O3*  A   A 937     222.049 127.434 -27.469  1.00 31.72      A16S
ATOM  19584  P    A   A 938     223.637 127.436 -27.142  1.00 46.43      A16S
ATOM  19585  O1P  A   A 938     224.354 126.804 -28.296  1.00 32.14      A16S
ATOM  19586  O2P  A   A 938     223.835 126.880 -25.768  1.00 32.14      A16S
ATOM  19587  O5*  A   A 938     224.008 128.985 -27.104  1.00 46.43      A16S
ATOM  19588  C5*  A   A 938     224.065 129.762 -28.314  1.00 46.43      A16S
ATOM  19589  C4*  A   A 938     224.476 131.173 -27.998  1.00 46.43      A16S
ATOM  19590  O4*  A   A 938     223.486 131.729 -27.106  1.00 46.43      A16S
ATOM  19591  C1*  A   A 938     224.114 132.477 -26.083  1.00 46.43      A16S
ATOM  19592  N9   A   A 938     223.957 131.721 -24.846  1.00 32.14      A16S
ATOM  19593  C4   A   A 938     224.149 132.172 -23.567  1.00 32.14      A16S
ATOM  19594  N3   A   A 938     224.518 133.400 -23.181  1.00 32.14      A16S
ATOM  19595  C2   A   A 938     224.588 133.473 -21.847  1.00 32.14      A16S
ATOM  19596  N1   A   A 938     224.352 132.529 -20.931  1.00 32.14      A16S
ATOM  19597  C6   A   A 938     223.986 131.305 -21.359  1.00 32.14      A16S
ATOM  19598  N6   A   A 938     223.756 130.356 -20.458  1.00 32.14      A16S
ATOM  19599  C5   A   A 938     223.872 131.098 -22.744  1.00 32.14      A16S
ATOM  19600  N7   A   A 938     223.517 129.985 -23.492  1.00 32.14      A16S
ATOM  19601  C8   A   A 938     223.585 130.406 -24.728  1.00 32.14      A16S
ATOM  19602  C2*  A   A 938     225.584 132.589 -26.459  1.00 46.43      A16S
ATOM  19603  O2*  A   A 938     225.777 133.723 -27.278  1.00 46.43      A16S
ATOM  19604  C3*  A   A 938     225.778 131.302 -27.234  1.00 46.43      A16S
ATOM  19605  O3*  A   A 938     226.899 131.372 -28.070  1.00 46.43      A16S
ATOM  19606  P    G   A 939     228.223 130.589 -27.648  1.00 47.15      A16S
ATOM  19607  O1P  G   A 939     229.232 130.921 -28.672  1.00 47.35      A16S
ATOM  19608  O2P  G   A 939     227.851 129.173 -27.402  1.00 47.35      A16S
ATOM  19609  O5*  G   A 939     228.651 131.210 -26.247  1.00 47.15      A16S
ATOM  19610  C5*  G   A 939     228.809 132.616 -26.089  1.00 47.15      A16S
ATOM  19611  C4*  G   A 939     229.136 132.959 -24.647  1.00 47.15      A16S
ATOM  19612  O4*  G   A 939     227.959 132.890 -23.795  1.00 47.15      A16S
ATOM  19613  C1*  G   A 939     228.377 132.661 -22.455  1.00 47.15      A16S
ATOM  19614  N9   G   A 939     227.669 131.518 -21.885  1.00 47.35      A16S
ATOM  19615  C4   G   A 939     227.344 131.382 -20.564  1.00 47.35      A16S
ATOM  19616  N3   G   A 939     227.610 132.279 -19.597  1.00 47.35      A16S
ATOM  19617  C2   G   A 939     227.164 131.886 -18.428  1.00 47.35      A16S
ATOM  19618  N2   G   A 939     227.353 132.673 -17.353  1.00 47.35      A16S
ATOM  19619  N1   G   A 939     226.505 130.697 -18.226  1.00 47.35      A16S
ATOM  19620  C6   G   A 939     226.227 129.760 -19.212  1.00 47.35      A16S
ATOM  19621  O6   G   A 939     225.632 128.729 -18.929  1.00 47.35      A16S
ATOM  19622  C5   G   A 939     226.703 130.171 -20.465  1.00 47.35      A16S
ATOM  19623  N7   G   A 939     226.629 129.548 -21.702  1.00 47.35      A16S
ATOM  19624  C8   G   A 939     227.214 130.384 -22.516  1.00 47.35      A16S
ATOM  19625  C2*  G   A 939     229.890 132.442 -22.444  1.00 47.15      A16S
ATOM  19626  O2*  G   A 939     230.537 133.610 -21.962  1.00 47.15      A16S
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ATOM  19627  C3* G   A 939     230.179 132.122 -23.912  1.00 47.15      A16S
ATOM  19628  O3* G   A 939     231.509 132.492 -24.236  1.00 47.15      A16S
ATOM  19629  P   C   A 940     232.732 131.657 -23.622  1.00 46.81      A16S
ATOM  19630  O1P C   A 940     233.956 132.202 -24.253  1.00 35.85      A16S
ATOM  19631  O2P C   A 940     232.448 130.196 -23.679  1.00 35.85      A16S
ATOM  19632  O5* C   A 940     232.737 132.030 -22.080  1.00 46.81      A16S
ATOM  19633  C5* C   A 940     233.658 132.987 -21.558  1.00 46.81      A16S
ATOM  19634  C4* C   A 940     233.634 132.955 -20.054  1.00 46.81      A16S
ATOM  19635  O4* C   A 940     232.260 133.093 -19.606  1.00 46.81      A16S
ATOM  19636  C1* C   A 940     232.096 132.423 -18.371  1.00 46.81      A16S
ATOM  19637  N1  C   A 940     231.114 131.347 -18.532  1.00 35.85      A16S
ATOM  19638  C6  C   A 940     230.915 130.742 -19.740  1.00 35.85      A16S
ATOM  19639  C2  C   A 940     230.417 130.915 -17.406  1.00 35.85      A16S
ATOM  19640  O2  C   A 940     230.549 131.539 -16.330  1.00 35.85      A16S
ATOM  19641  N3  C   A 940     229.610 129.842 -17.510  1.00 35.85      A16S
ATOM  19642  C4  C   A 940     229.462 129.232 -18.678  1.00 35.85      A16S
ATOM  19643  N4  C   A 940     228.697 128.157 -18.713  1.00 35.85      A16S
ATOM  19644  C5  C   A 940     230.105 129.693 -19.854  1.00 35.85      A16S
ATOM  19645  C2* C   A 940     233.439 131.806 -18.007  1.00 46.81      A16S
ATOM  19646  O2* C   A 940     234.148 132.679 -17.154  1.00 46.81      A16S
ATOM  19647  C3* C   A 940     234.083 131.677 -19.372  1.00 46.81      A16S
ATOM  19648  O3* C   A 940     235.471 131.565 -19.241  1.00 46.81      A16S
ATOM  19649  P   G   A 941     236.112 130.111 -19.023  1.00 33.64      A16S
ATOM  19650  O1P G   A 941     237.596 130.258 -18.983  1.00 53.85      A16S
ATOM  19651  O2P G   A 941     235.489 129.175 -20.005  1.00 53.85      A16S
ATOM  19652  O5* G   A 941     235.647 129.699 -17.561  1.00 33.64      A16S
ATOM  19653  C5* G   A 941     236.090 130.442 -16.435  1.00 33.64      A16S
ATOM  19654  C4* G   A 941     235.414 129.945 -15.196  1.00 33.64      A16S
ATOM  19655  O4* G   A 941     233.986 130.153 -15.305  1.00 33.64      A16S
ATOM  19656  C1* G   A 941     233.308 129.150 -14.566  1.00 33.64      A16S
ATOM  19657  N9  G   A 941     232.394 128.437 -15.450  1.00 53.85      A16S
ATOM  19658  C4  G   A 941     231.454 127.520 -15.061  1.00 53.85      A16S
ATOM  19659  N3  G   A 941     231.166 127.175 -13.794  1.00 53.85      A16S
ATOM  19660  C2  G   A 941     230.248 126.237 -13.739  1.00 53.85      A16S
ATOM  19661  N2  G   A 941     229.823 125.799 -12.560  1.00 53.85      A16S
ATOM  19662  N1  G   A 941     229.673 125.664 -14.838  1.00 53.85      A16S
ATOM  19663  C6  G   A 941     229.959 126.002 -16.153  1.00 53.85      A16S
ATOM  19664  O6  G   A 941     229.398 125.410 -17.077  1.00 53.85      A16S
ATOM  19665  C5  G   A 941     230.921 127.029 -16.225  1.00 53.85      A16S
ATOM  19666  N7  G   A 941     231.472 127.665 -17.324  1.00 53.85      A16S
ATOM  19667  C8  G   A 941     232.334 128.498 -16.815  1.00 53.85      A16S
ATOM  19668  C2* G   A 941     234.364 128.197 -13.997  1.00 33.64      A16S
ATOM  19669  O2* G   A 941     234.657 128.493 -12.644  1.00 33.64      A16S
ATOM  19670  C3* G   A 941     235.551 128.463 -14.907  1.00 33.64      A16S
ATOM  19671  O3* G   A 941     236.759 128.172 -14.235  1.00 33.64      A16S
ATOM  19672  P   G   A 942     237.188 126.645 -14.010  1.00 42.64      A16S
ATOM  19673  O1P G   A 942     238.245 126.615 -12.958  1.00 60.17      A16S
ATOM  19674  O2P G   A 942     237.449 126.032 -15.331  1.00 60.17      A16S
ATOM  19675  O5* G   A 942     235.871 125.998 -13.402  1.00 42.64      A16S
ATOM  19676  C5* G   A 942     235.864 124.656 -12.898  1.00 42.64      A16S
ATOM  19677  C4* G   A 942     234.689 124.451 -11.972  1.00 42.64      A16S
ATOM  19678  O4* G   A 942     233.478 124.938 -12.609  1.00 42.64      A16S
ATOM  19679  C1* G   A 942     232.399 124.082 -12.299  1.00 42.64      A16S
ATOM  19680  N9  G   A 942     231.853 123.548 -13.541  1.00 60.17      A16S
ATOM  19681  C4  G   A 942     230.893 122.574 -13.640  1.00 60.17      A16S
ATOM  19682  N3  G   A 942     230.264 121.977 -12.605  1.00 60.17      A16S
ATOM  19683  C2  G   A 942     229.410 121.059 -13.010  1.00 60.17      A16S
ATOM  19684  N2  G   A 942     228.688 120.378 -12.106  1.00 60.17      A16S
ATOM  19685  N1  G   A 942     229.201 120.741 -14.327  1.00 60.17      A16S
ATOM  19686  C6  G   A 942     229.842 121.339 -15.407  1.00 60.17      A16S
ATOM  19687  O6  G   A 942     229.590 120.966 -16.556  1.00 60.17      A16S
ATOM  19688  C5  G   A 942     230.746 122.341 -14.985  1.00 60.17      A16S
ATOM  19689  N7  G   A 942     231.571 123.177 -15.723  1.00 60.17      A16S
ATOM  19690  C8  G   A 942     232.205 123.878 -14.825  1.00 60.17      A16S
ATOM  19691  C2* G   A 942     232.922 122.978 -11.378  1.00 42.64      A16S
ATOM  19692  O2* G   A 942     232.605 123.300 -10.050  1.00 42.64      A16S
ATOM  19693  C3* G   A 942     234.414 122.996 -11.667  1.00 42.64      A16S
ATOM  19694  O3* G   A 942     235.191 122.541 -10.578  1.00 42.64      A16S
ATOM  19695  P   U   A 943     235.619 120.995 -10.513  1.00 33.85      A16S
ATOM  19696  O1P U   A 943     236.411 120.715  -9.279  1.00 52.36      A16S
ATOM  19697  O2P U   A 943     236.183 120.622 -11.842  1.00 52.36      A16S
ATOM  19698  O5* U   A 943     234.226 120.247 -10.340  1.00 33.85      A16S
ATOM  19699  C5* U   A 943     233.478 120.365  -9.122  1.00 33.85      A16S
ATOM  19700  C4* U   A 943     232.299 119.434  -9.140  1.00 33.85      A16S
ATOM  19701  O4* U   A 943     231.337 119.858 -10.137  1.00 33.85      A16S
ATOM  19702  C1* U   A 943     230.721 118.721 -10.705  1.00 33.85      A16S
ATOM  19703  N1  U   A 943     231.032 118.669 -12.137  1.00 52.36      A16S
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ATOM  19704  C6  U   A 943     232.020 119.425 -12.696  1.00 52.36      A16S
ATOM  19705  C2  U   A 943     230.302 117.798 -12.894  1.00 52.36      A16S
ATOM  19706  O2  U   A 943     229.396 117.139 -12.442  1.00 52.36      A16S
ATOM  19707  N3  U   A 943     230.666 117.724 -14.205  1.00 52.36      A16S
ATOM  19708  C4  U   A 943     231.649 118.432 -14.823  1.00 52.36      A16S
ATOM  19709  O4  U   A 943     231.869 118.234 -16.014  1.00 52.36      A16S
ATOM  19710  C5  U   A 943     232.345 119.340 -13.981  1.00 52.36      A16S
ATOM  19711  C2* U   A 943     231.298 117.488 -10.018  1.00 33.85      A16S
ATOM  19712  O2* U   A 943     230.438 117.108  -8.974  1.00 33.85      A16S
ATOM  19713  C3* U   A 943     232.626 118.008  -9.513  1.00 33.85      A16S
ATOM  19714  O3* U   A 943     233.074 117.281  -8.402  1.00 33.85      A16S
ATOM  19715  P   G   A 944     234.104 116.076  -8.622  1.00 43.12      A16S
ATOM  19716  O1P G   A 944     234.272 115.396  -7.296  1.00 39.72      A16S
ATOM  19717  O2P G   A 944     235.302 116.608  -9.342  1.00 39.72      A16S
ATOM  19718  O5* G   A 944     233.330 115.100  -9.610  1.00 43.12      A16S
ATOM  19719  C5* G   A 944     232.124 114.445  -9.197  1.00 43.12      A16S
ATOM  19720  C4* G   A 944     231.684 113.455 -10.240  1.00 43.12      A16S
ATOM  19721  O4* G   A 944     231.099 114.139 -11.372  1.00 43.12      A16S
ATOM  19722  C1* G   A 944     231.500 113.507 -12.569  1.00 43.12      A16S
ATOM  19723  N9  G   A 944     232.281 114.479 -13.331  1.00 39.72      A16S
ATOM  19724  C4  G   A 944     232.547 114.461 -14.677  1.00 39.72      A16S
ATOM  19725  N3  G   A 944     232.124 113.536 -15.560  1.00 39.72      A16S
ATOM  19726  C2  G   A 944     232.522 113.807 -16.783  1.00 39.72      A16S
ATOM  19727  N2  G   A 944     232.168 113.016 -17.791  1.00 39.72      A16S
ATOM  19728  N1  G   A 944     233.290 114.877 -17.111  1.00 39.72      A16S
ATOM  19729  C6  G   A 944     233.746 115.836 -16.219  1.00 39.72      A16S
ATOM  19730  O6  G   A 944     234.454 116.765 -16.621  1.00 39.72      A16S
ATOM  19731  C5  G   A 944     233.308 115.577 -14.912  1.00 39.72      A16S
ATOM  19732  N7  G   A 944     233.513 116.291 -13.745  1.00 39.72      A16S
ATOM  19733  C8  G   A 944     232.891 115.602 -12.836  1.00 39.72      A16S
ATOM  19734  C2* G   A 944     232.279 112.247 -12.176  1.00 43.12      A16S
ATOM  19735  O2* G   A 944     231.383 111.164 -12.049  1.00 43.12      A16S
ATOM  19736  C3* G   A 944     232.814 112.633 -10.811  1.00 43.12      A16S
ATOM  19737  O3* G   A 944     233.058 111.525  -9.975  1.00 43.12      A16S
ATOM  19738  P   G   A 945     234.408 111.479  -9.111  1.00 31.07      A16S
ATOM  19739  O1P G   A 945     234.390 110.233  -8.264  1.00 50.14      A16S
ATOM  19740  O2P G   A 945     234.584 112.808  -8.461  1.00 50.14      A16S
ATOM  19741  O5* G   A 945     235.548 111.328 -10.212  1.00 31.07      A16S
ATOM  19742  C5* G   A 945     235.503 110.279 -11.209  1.00 31.07      A16S
ATOM  19743  C4* G   A 945     236.806 110.239 -11.982  1.00 31.07      A16S
ATOM  19744  O4* G   A 945     236.868 111.328 -12.939  1.00 31.07      A16S
ATOM  19745  C1* G   A 945     238.188 111.840 -12.994  1.00 31.07      A16S
ATOM  19746  N9  G   A 945     238.136 113.256 -12.631  1.00 50.14      A16S
ATOM  19747  C4  G   A 945     239.173 114.047 -12.181  1.00 50.14      A16S
ATOM  19748  N3  G   A 945     240.451 113.655 -11.991  1.00 50.14      A16S
ATOM  19749  C2  G   A 945     241.209 114.642 -11.548  1.00 50.14      A16S
ATOM  19750  N2  G   A 945     242.511 114.424 -11.300  1.00 50.14      A16S
ATOM  19751  N1  G   A 945     240.748 115.914 -11.317  1.00 50.14      A16S
ATOM  19752  C6  G   A 945     239.442 116.338 -11.519  1.00 50.14      A16S
ATOM  19753  O6  G   A 945     239.137 117.510 -11.308  1.00 50.14      A16S
ATOM  19754  C5  G   A 945     238.621 115.292 -11.978  1.00 50.14      A16S
ATOM  19755  N7  G   A 945     237.273 115.289 -12.286  1.00 50.14      A16S
ATOM  19756  C8  G   A 945     237.031 114.066 -12.672  1.00 50.14      A16S
ATOM  19757  C2* G   A 945     239.058 110.976 -12.070  1.00 31.07      A16S
ATOM  19758  O2* G   A 945     239.665 109.913 -12.767  1.00 31.07      A16S
ATOM  19759  C3* G   A 945     238.036 110.411 -11.114  1.00 31.07      A16S
ATOM  19760  O3* G   A 945     238.476 109.195 -10.554  1.00 31.07      A16S
ATOM  19761  P   A   A 946     238.863 109.166  -9.004  1.00 42.81      A16S
ATOM  19762  O1P A   A 946     239.201 107.784  -8.549  1.00 41.88      A16S
ATOM  19763  O2P A   A 946     237.768 109.915  -8.325  1.00 41.88      A16S
ATOM  19764  O5* A   A 946     240.166 110.077  -8.939  1.00 42.81      A16S
ATOM  19765  C5* A   A 946     241.422 109.602  -9.429  1.00 42.81      A16S
ATOM  19766  C4* A   A 946     242.545 110.413  -8.836  1.00 42.81      A16S
ATOM  19767  O4* A   A 946     242.497 111.772  -9.330  1.00 42.81      A16S
ATOM  19768  C1* A   A 946     242.942 112.656  -8.323  1.00 42.81      A16S
ATOM  19769  N9  A   A 946     241.929 113.694  -8.155  1.00 41.88      A16S
ATOM  19770  C4  A   A 946     242.052 114.888  -7.490  1.00 41.88      A16S
ATOM  19771  N3  A   A 946     243.113 115.339  -6.807  1.00 41.88      A16S
ATOM  19772  C2  A   A 946     242.870 116.553  -6.316  1.00 41.88      A16S
ATOM  19773  N1  A   A 946     241.770 117.308  -6.430  1.00 41.88      A16S
ATOM  19774  C6  A   A 946     240.727 116.815  -7.127  1.00 41.88      A16S
ATOM  19775  N6  A   A 946     239.632 117.553  -7.254  1.00 41.88      A16S
ATOM  19776  C5  A   A 946     240.857 115.548  -7.684  1.00 41.88      A16S
ATOM  19777  N7  A   A 946     239.987 114.778  -8.430  1.00 41.88      A16S
ATOM  19778  C8  A   A 946     240.664 113.687  -8.672  1.00 41.88      A16S
ATOM  19779  C2* A   A 946     243.275 111.834  -7.076  1.00 42.81      A16S
ATOM  19780  O2* A   A 946     244.664 111.610  -7.031  1.00 42.81      A16S
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ATOM  19781  C3* A   A 946     242.523 110.538  -7.327  1.00 42.81      A16S
ATOM  19782  O3* A   A 946     243.228 109.451  -6.771  1.00 42.81      A16S
ATOM  19783  P    G   A 947     242.789 108.867  -5.353  1.00 45.68      A16S
ATOM  19784  O1P G   A 947     243.559 107.611  -5.132  1.00 41.55      A16S
ATOM  19785  O2P G   A 947     241.295 108.824  -5.349  1.00 41.55      A16S
ATOM  19786  O5* G   A 947     243.322 109.945  -4.303  1.00 45.68      A16S
ATOM  19787  C5* G   A 947     244.683 109.882  -3.824  1.00 45.68      A16S
ATOM  19788  C4* G   A 947     245.038 111.121  -3.044  1.00 45.68      A16S
ATOM  19789  O4* G   A 947     244.812 112.282  -3.878  1.00 45.68      A16S
ATOM  19790  C1* G   A 947     244.312 113.348  -3.096  1.00 45.68      A16S
ATOM  19791  N9   G   A 947     242.986 113.684  -3.593  1.00 41.55      A16S
ATOM  19792  C4   G   A 947     242.324 114.869  -3.424  1.00 41.55      A16S
ATOM  19793  N3   G   A 947     242.793 115.947  -2.778  1.00 41.55      A16S
ATOM  19794  C2   G   A 947     241.932 116.939  -2.798  1.00 41.55      A16S
ATOM  19795  N2   G   A 947     242.252 118.100  -2.242  1.00 41.55      A16S
ATOM  19796  N1   G   A 947     240.695 116.867  -3.376  1.00 41.55      A16S
ATOM  19797  C6   G   A 947     240.185 115.755  -4.032  1.00 41.55      A16S
ATOM  19798  O6   G   A 947     239.040 115.781  -4.505  1.00 41.55      A16S
ATOM  19799  C5   G   A 947     241.111 114.702  -4.047  1.00 41.55      A16S
ATOM  19800  N7   G   A 947     241.016 113.442  -4.610  1.00 41.55      A16S
ATOM  19801  C8   G   A 947     242.149 112.873  -4.311  1.00 41.55      A16S
ATOM  19802  C2* G   A 947     244.278 112.882  -1.643  1.00 45.68      A16S
ATOM  19803  O2* G   A 947     245.454 113.341  -1.008  1.00 45.68      A16S
ATOM  19804  C3* G   A 947     244.203 111.369  -1.805  1.00 45.68      A16S
ATOM  19805  O3* G   A 947     244.694 110.644  -0.680  1.00 45.68      A16S
ATOM  19806  P    C   A 948     243.647 110.075   0.397  1.00 34.75      A16S
ATOM  19807  O1P C   A 948     244.354 109.264   1.414  1.00 53.82      A16S
ATOM  19808  O2P C   A 948     242.533 109.450  -0.366  1.00 53.82      A16S
ATOM  19809  O5* C   A 948     243.124 111.409   1.091  1.00 34.75      A16S
ATOM  19810  C5* C   A 948     244.011 112.163   1.913  1.00 34.75      A16S
ATOM  19811  C4* C   A 948     243.485 113.555   2.160  1.00 34.75      A16S
ATOM  19812  O4* C   A 948     243.258 114.227   0.901  1.00 34.75      A16S
ATOM  19813  C1* C   A 948     242.201 115.157   1.044  1.00 34.75      A16S
ATOM  19814  N1   C   A 948     241.102 114.770   0.155  1.00 53.82      A16S
ATOM  19815  C6   C   A 948     241.043 113.523  -0.403  1.00 53.82      A16S
ATOM  19816  C2   C   A 948     240.096 115.697  -0.083  1.00 53.82      A16S
ATOM  19817  O2   C   A 948     240.186 116.830   0.430  1.00 53.82      A16S
ATOM  19818  N3   C   A 948     239.050 115.344  -0.847  1.00 53.82      A16S
ATOM  19819  C4   C   A 948     238.980 114.115  -1.359  1.00 53.82      A16S
ATOM  19820  N4   C   A 948     237.894 113.799  -2.076  1.00 53.82      A16S
ATOM  19821  C5   C   A 948     240.007 113.156  -1.152  1.00 53.82      A16S
ATOM  19822  C2* C   A 948     241.710 115.083   2.482  1.00 34.75      A16S
ATOM  19823  O2* C   A 948     242.307 116.115   3.221  1.00 34.75      A16S
ATOM  19824  C3* C   A 948     242.164 113.691   2.885  1.00 34.75      A16S
ATOM  19825  O3* C   A 948     242.293 113.579   4.283  1.00 34.75      A16S
ATOM  19826  P    A   A 949     241.010 113.170   5.148  1.00 43.00      A16S
ATOM  19827  O1P A   A 949     241.478 112.977   6.546  1.00 67.08      A16S
ATOM  19828  O2P A   A 949     240.341 112.044   4.438  1.00 67.08      A16S
ATOM  19829  O5* A   A 949     240.096 114.478   5.092  1.00 43.00      A16S
ATOM  19830  C5* A   A 949     240.574 115.709   5.667  1.00 43.00      A16S
ATOM  19831  C4* A   A 949     239.463 116.726   5.773  1.00 43.00      A16S
ATOM  19832  O4* A   A 949     239.149 117.249   4.462  1.00 43.00      A16S
ATOM  19833  C1* A   A 949     237.754 117.467   4.359  1.00 43.00      A16S
ATOM  19834  N9   A   A 949     237.243 116.530   3.363  1.00 67.08      A16S
ATOM  19835  C4   A   A 949     236.158 116.699   2.545  1.00 67.08      A16S
ATOM  19836  N3   A   A 949     235.335 117.756   2.492  1.00 67.08      A16S
ATOM  19837  C2   A   A 949     234.398 117.565   1.577  1.00 67.08      A16S
ATOM  19838  N1   A   A 949     234.217 116.523   0.757  1.00 67.08      A16S
ATOM  19839  C6   A   A 949     235.075 115.485   0.836  1.00 67.08      A16S
ATOM  19840  N6   A   A 949     234.921 114.450   0.007  1.00 67.08      A16S
ATOM  19841  C5   A   A 949     236.088 115.555   1.779  1.00 67.08      A16S
ATOM  19842  N7   A   A 949     237.097 114.672   2.117  1.00 67.08      A16S
ATOM  19843  C8   A   A 949     237.754 115.293   3.057  1.00 67.08      A16S
ATOM  19844  C2* A   A 949     237.138 117.191   5.730  1.00 43.00      A16S
ATOM  19845  O2* A   A 949     237.014 118.386   6.470  1.00 43.00      A16S
ATOM  19846  C3* A   A 949     238.144 116.218   6.322  1.00 43.00      A16S
ATOM  19847  O3* A   A 949     238.093 116.188   7.738  1.00 43.00      A16S
ATOM  19848  P    U   A 950     237.248 115.035   8.455  1.00 46.16      A16S
ATOM  19849  O1P U   A 950     237.310 115.220   9.927  1.00 43.41      A16S
ATOM  19850  O2P U   A 950     237.734 113.767   7.855  1.00 43.41      A16S
ATOM  19851  O5* U   A 950     235.758 115.328   7.959  1.00 46.16      A16S
ATOM  19852  C5* U   A 950     235.130 116.578   8.287  1.00 46.16      A16S
ATOM  19853  C4* U   A 950     233.892 116.829   7.446  1.00 46.16      A16S
ATOM  19854  O4* U   A 950     234.233 116.857   6.040  1.00 46.16      A16S
ATOM  19855  C1* U   A 950     233.092 116.502   5.270  1.00 46.16      A16S
ATOM  19856  N1   U   A 950     233.386 115.287   4.489  1.00 43.41      A16S
ATOM  19857  C6   U   A 950     234.280 114.342   4.930  1.00 43.41      A16S
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ATOM	19858	C2	U	A	950	232.716	115.115	3.289	1.00	43.41	A16S
ATOM	19859	O2	U	A	950	231.903	115.921	2.856	1.00	43.41	A16S
ATOM	19860	N3	U	A	950	233.026	113.962	2.614	1.00	43.41	A16S
ATOM	19861	C4	U	A	950	233.910	112.986	3.000	1.00	43.41	A16S
ATOM	19862	O4	U	A	950	234.110	112.022	2.260	1.00	43.41	A16S
ATOM	19863	C5	U	A	950	234.552	113.229	4.246	1.00	43.41	A16S
ATOM	19864	C2*	U	A	950	231.947	116.256	6.248	1.00	46.16	A16S
ATOM	19865	O2*	U	A	950	231.210	117.457	6.426	1.00	46.16	A16S
ATOM	19866	C3*	U	A	950	232.710	115.870	7.503	1.00	46.16	A16S
ATOM	19867	O3*	U	A	950	231.880	116.013	8.641	1.00	46.16	A16S
ATOM	19868	P	G	A	951	231.235	114.700	9.307	1.00	43.79	A16S
ATOM	19869	O1P	G	A	951	230.849	115.073	10.686	1.00	51.75	A16S
ATOM	19870	O2P	G	A	951	232.127	113.534	9.092	1.00	51.75	A16S
ATOM	19871	O5*	G	A	951	229.919	114.457	8.454	1.00	43.79	A16S
ATOM	19872	C5*	G	A	951	228.801	115.315	8.624	1.00	43.79	A16S
ATOM	19873	C4*	G	A	951	227.716	114.973	7.642	1.00	43.79	A16S
ATOM	19874	O4*	G	A	951	228.144	115.313	6.302	1.00	43.79	A16S
ATOM	19875	C1*	G	A	951	227.592	114.399	5.378	1.00	43.79	A16S
ATOM	19876	N9	G	A	951	228.683	113.607	4.812	1.00	51.75	A16S
ATOM	19877	C4	G	A	951	228.616	112.782	3.711	1.00	51.75	A16S
ATOM	19878	N3	G	A	951	227.541	112.590	2.928	1.00	51.75	A16S
ATOM	19879	C2	G	A	951	227.782	111.728	1.967	1.00	51.75	A16S
ATOM	19880	N2	G	A	951	226.841	111.439	1.097	1.00	51.75	A16S
ATOM	19881	N1	G	A	951	228.968	111.089	1.785	1.00	51.75	A16S
ATOM	19882	C6	G	A	951	230.093	111.261	2.577	1.00	51.75	A16S
ATOM	19883	O6	G	A	951	231.122	110.622	2.331	1.00	51.75	A16S
ATOM	19884	C5	G	A	951	229.860	112.202	3.612	1.00	51.75	A16S
ATOM	19885	N7	G	A	951	230.704	112.670	4.611	1.00	51.75	A16S
ATOM	19886	C8	G	A	951	229.966	113.504	5.293	1.00	51.75	A16S
ATOM	19887	C2*	G	A	951	226.636	113.511	6.174	1.00	43.79	A16S
ATOM	19888	O2*	G	A	951	225.367	114.143	6.230	1.00	43.79	A16S
ATOM	19889	C3*	G	A	951	227.289	113.522	7.542	1.00	43.79	A16S
ATOM	19890	O3*	G	A	951	226.365	113.148	8.544	1.00	43.79	A16S
ATOM	19891	P	U	A	952	226.223	111.601	8.946	1.00	47.69	A16S
ATOM	19892	O1P	U	A	952	225.199	111.506	10.018	1.00	50.03	A16S
ATOM	19893	O2P	U	A	952	227.576	111.051	9.172	1.00	50.03	A16S
ATOM	19894	O5*	U	A	952	225.631	110.910	7.643	1.00	47.69	A16S
ATOM	19895	C5*	U	A	952	224.398	111.373	7.074	1.00	47.69	A16S
ATOM	19896	C4*	U	A	952	224.082	110.620	5.808	1.00	47.69	A16S
ATOM	19897	O4*	U	A	952	225.066	110.926	4.787	1.00	47.69	A16S
ATOM	19898	C1*	U	A	952	225.245	109.793	3.951	1.00	47.69	A16S
ATOM	19899	N1	U	A	952	226.648	109.349	3.981	1.00	50.03	A16S
ATOM	19900	C6	U	A	952	227.577	109.887	4.824	1.00	50.03	A16S
ATOM	19901	C2	U	A	952	226.989	108.329	3.118	1.00	50.03	A16S
ATOM	19902	O2	U	A	952	226.192	107.823	2.352	1.00	50.03	A16S
ATOM	19903	N3	U	A	952	228.286	107.911	3.188	1.00	50.03	A16S
ATOM	19904	C4	U	A	952	229.257	108.392	4.012	1.00	50.03	A16S
ATOM	19905	O4	U	A	952	230.389	107.919	3.942	1.00	50.03	A16S
ATOM	19906	C5	U	A	952	228.836	109.451	4.874	1.00	50.03	A16S
ATOM	19907	C2*	U	A	952	224.337	108.684	4.477	1.00	47.69	A16S
ATOM	19908	O2*	U	A	952	223.120	108.653	3.761	1.00	47.69	A16S
ATOM	19909	C3*	U	A	952	224.132	109.110	5.915	1.00	47.69	A16S
ATOM	19910	O3*	U	A	952	222.955	108.533	6.408	1.00	47.69	A16S
ATOM	19911	P	G	A	953	222.963	106.979	6.776	1.00	40.52	A16S
ATOM	19912	O1P	G	A	953	221.689	106.634	7.444	1.00	56.08	A16S
ATOM	19913	O2P	G	A	953	224.253	106.694	7.459	1.00	56.08	A16S
ATOM	19914	O5*	G	A	953	223.009	106.240	5.368	1.00	40.52	A16S
ATOM	19915	C5*	G	A	953	221.863	106.189	4.503	1.00	40.52	A16S
ATOM	19916	C4*	G	A	953	222.156	105.298	3.321	1.00	40.52	A16S
ATOM	19917	O4*	G	A	953	223.331	105.801	2.632	1.00	40.52	A16S
ATOM	19918	C1*	G	A	953	224.111	104.715	2.159	1.00	40.52	A16S
ATOM	19919	N9	G	A	953	225.417	104.758	2.812	1.00	56.08	A16S
ATOM	19920	C4	G	A	953	226.539	104.048	2.446	1.00	56.08	A16S
ATOM	19921	N3	G	A	953	226.637	103.206	1.405	1.00	56.08	A16S
ATOM	19922	C2	G	A	953	227.836	102.657	1.329	1.00	56.08	A16S
ATOM	19923	N2	G	A	953	228.108	101.780	0.352	1.00	56.08	A16S
ATOM	19924	N1	G	A	953	228.857	102.919	2.200	1.00	56.08	A16S
ATOM	19925	C6	G	A	953	228.778	103.778	3.277	1.00	56.08	A16S
ATOM	19926	O6	G	A	953	229.751	103.926	4.002	1.00	56.08	A16S
ATOM	19927	C5	G	A	953	227.501	104.376	3.375	1.00	56.08	A16S
ATOM	19928	N7	G	A	953	227.004	105.287	4.295	1.00	56.08	A16S
ATOM	19929	C8	G	A	953	225.769	105.487	3.921	1.00	56.08	A16S
ATOM	19930	C2*	G	A	953	223.363	103.426	2.502	1.00	40.52	A16S
ATOM	19931	O2*	G	A	953	222.558	103.014	1.418	1.00	40.52	A16S
ATOM	19932	C3*	G	A	953	222.520	103.867	3.683	1.00	40.52	A16S
ATOM	19933	O3*	G	A	953	221.383	103.036	3.832	1.00	40.52	A16S
ATOM	19934	P	G	A	954	221.345	101.954	5.021	1.00	55.94	A16S

ATOM	19935	O1P	G	A	954	220.070	101.173	4.899	1.00	48.33	A16S
ATOM	19936	O2P	G	A	954	221.639	102.696	6.276	1.00	48.33	A16S
ATOM	19937	O5*	G	A	954	222.562	100.973	4.707	1.00	55.94	A16S
ATOM	19938	C5*	G	A	954	222.461	100.027	3.642	1.00	55.94	A16S
ATOM	19939	C4*	G	A	954	223.822	99.539	3.232	1.00	55.94	A16S
ATOM	19940	O4*	G	A	954	224.723	100.667	3.155	1.00	55.94	A16S
ATOM	19941	C1*	G	A	954	226.045	100.228	3.391	1.00	55.94	A16S
ATOM	19942	N9	G	A	954	226.609	100.997	4.489	1.00	48.33	A16S
ATOM	19943	C4	G	A	954	227.931	101.032	4.840	1.00	48.33	A16S
ATOM	19944	N3	G	A	954	228.935	100.382	4.211	1.00	48.33	A16S
ATOM	19945	C2	G	A	954	230.099	100.606	4.791	1.00	48.33	A16S
ATOM	19946	N2	G	A	954	231.210	100.054	4.296	1.00	48.33	A16S
ATOM	19947	N1	G	A	954	230.258	101.393	5.902	1.00	48.33	A16S
ATOM	19948	C6	G	A	954	229.237	102.065	6.564	1.00	48.33	A16S
ATOM	19949	O6	G	A	954	229.490	102.738	7.563	1.00	48.33	A16S
ATOM	19950	C5	G	A	954	227.992	101.847	5.949	1.00	48.33	A16S
ATOM	19951	N7	G	A	954	226.734	102.329	6.275	1.00	48.33	A16S
ATOM	19952	C8	G	A	954	225.946	101.802	5.379	1.00	48.33	A16S
ATOM	19953	C2*	G	A	954	225.995	98.741	3.729	1.00	55.94	A16S
ATOM	19954	O2*	G	A	954	226.338	98.006	2.571	1.00	55.94	A16S
ATOM	19955	C3*	G	A	954	224.541	98.567	4.149	1.00	55.94	A16S
ATOM	19956	O3*	G	A	954	224.110	97.236	3.924	1.00	55.94	A16S
ATOM	19957	P	U	A	955	224.049	96.202	5.152	1.00	51.84	A16S
ATOM	19958	O1P	U	A	955	223.477	94.941	4.601	1.00	60.01	A16S
ATOM	19959	O2P	U	A	955	223.375	96.874	6.288	1.00	60.01	A16S
ATOM	19960	O5*	U	A	955	225.576	95.958	5.548	1.00	51.84	A16S
ATOM	19961	C5*	U	A	955	226.461	95.225	4.672	1.00	51.84	A16S
ATOM	19962	C4*	U	A	955	227.901	95.384	5.105	1.00	51.84	A16S
ATOM	19963	O4*	U	A	955	228.267	96.784	5.027	1.00	51.84	A16S
ATOM	19964	C1*	U	A	955	229.150	97.111	6.089	1.00	51.84	A16S
ATOM	19965	N1	U	A	955	228.524	98.136	6.939	1.00	60.01	A16S
ATOM	19966	C6	U	A	955	227.181	98.421	6.872	1.00	60.01	A16S
ATOM	19967	C2	U	A	955	229.340	98.802	7.824	1.00	60.01	A16S
ATOM	19968	O2	U	A	955	230.536	98.575	7.914	1.00	60.01	A16S
ATOM	19969	N3	U	A	955	228.708	99.738	8.603	1.00	60.01	A16S
ATOM	19970	C4	U	A	955	227.375	100.066	8.586	1.00	60.01	A16S
ATOM	19971	O4	U	A	955	226.959	100.950	9.333	1.00	60.01	A16S
ATOM	19972	C5	U	A	955	226.598	99.335	7.646	1.00	60.01	A16S
ATOM	19973	C2*	U	A	955	229.433	95.832	6.868	1.00	51.84	A16S
ATOM	19974	O2*	U	A	955	230.630	95.270	6.392	1.00	51.84	A16S
ATOM	19975	C3*	U	A	955	228.204	94.998	6.541	1.00	51.84	A16S
ATOM	19976	O3*	U	A	955	228.431	93.608	6.706	1.00	51.84	A16S
ATOM	19977	P	U	A	956	227.985	92.899	8.081	1.00	62.35	A16S
ATOM	19978	O1P	U	A	956	228.078	91.426	7.880	1.00	43.51	A16S
ATOM	19979	O2P	U	A	956	226.688	93.507	8.494	1.00	43.51	A16S
ATOM	19980	O5*	U	A	956	229.106	93.345	9.122	1.00	62.35	A16S
ATOM	19981	C5*	U	A	956	230.485	93.035	8.870	1.00	62.35	A16S
ATOM	19982	C4*	U	A	956	231.395	93.843	9.761	1.00	62.35	A16S
ATOM	19983	O4*	U	A	956	231.256	95.256	9.485	1.00	62.35	A16S
ATOM	19984	C1*	U	A	956	231.492	95.992	10.668	1.00	62.35	A16S
ATOM	19985	N1	U	A	956	230.276	96.727	11.020	1.00	43.51	A16S
ATOM	19986	C6	U	A	956	229.054	96.415	10.481	1.00	43.51	A16S
ATOM	19987	C2	U	A	956	230.411	97.745	11.927	1.00	43.51	A16S
ATOM	19988	O2	U	A	956	231.486	98.052	12.417	1.00	43.51	A16S
ATOM	19989	N3	U	A	956	229.247	98.392	12.245	1.00	43.51	A16S
ATOM	19990	C4	U	A	956	227.994	98.125	11.753	1.00	43.51	A16S
ATOM	19991	O4	U	A	956	227.033	98.751	12.189	1.00	43.51	A16S
ATOM	19992	C5	U	A	956	227.940	97.064	10.804	1.00	43.51	A16S
ATOM	19993	C2*	U	A	956	231.817	95.001	11.774	1.00	62.35	A16S
ATOM	19994	O2*	U	A	956	233.218	94.876	11.868	1.00	62.35	A16S
ATOM	19995	C3*	U	A	956	231.154	93.741	11.251	1.00	62.35	A16S
ATOM	19996	O3*	U	A	956	231.743	92.589	11.804	1.00	62.35	A16S
ATOM	19997	P	U	A	957	231.120	91.968	13.135	1.00	52.84	A16S
ATOM	19998	O1P	U	A	957	231.987	90.832	13.545	1.00	53.84	A16S
ATOM	19999	O2P	U	A	957	229.672	91.746	12.885	1.00	53.84	A16S
ATOM	20000	O5*	U	A	957	231.292	93.153	14.181	1.00	52.84	A16S
ATOM	20001	C5*	U	A	957	232.601	93.579	14.591	1.00	52.84	A16S
ATOM	20002	C4*	U	A	957	232.498	94.690	15.608	1.00	52.84	A16S
ATOM	20003	O4*	U	A	957	231.831	95.836	15.015	1.00	52.84	A16S
ATOM	20004	C1*	U	A	957	231.070	96.508	16.005	1.00	52.84	A16S
ATOM	20005	N1	U	A	957	229.663	96.530	15.581	1.00	53.84	A16S
ATOM	20006	C6	U	A	957	229.076	95.432	14.992	1.00	53.84	A16S
ATOM	20007	C2	U	A	957	228.937	97.697	15.795	1.00	53.84	A16S
ATOM	20008	O2	U	A	957	229.411	98.690	16.316	1.00	53.84	A16S
ATOM	20009	N3	U	A	957	227.628	97.654	15.376	1.00	53.84	A16S
ATOM	20010	C4	U	A	957	226.978	96.589	14.779	1.00	53.84	A16S
ATOM	20011	O4	U	A	957	225.790	96.703	14.456	1.00	53.84	A16S

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ATOM  20012  C5  U   A 957     227.794  95.420  14.597  1.00 53.84      A16S
ATOM  20013  C2* U   A 957     231.273  95.776  17.332  1.00 52.84      A16S
ATOM  20014  O2* U   A 957     232.283  96.441  18.066  1.00 52.84      A16S
ATOM  20015  C3* U   A 957     231.682  94.385  16.854  1.00 52.84      A16S
ATOM  20016  O3* U   A 957     232.431  93.657  17.820  1.00 52.84      A16S
ATOM  20017  P   A   A 958     231.699  92.535  18.707  1.00 71.03      A16S
ATOM  20018  O1P A   A 958     232.694  92.057  19.709  1.00 77.78      A16S
ATOM  20019  O2P A   A 958     231.040  91.555  17.799  1.00 77.78      A16S
ATOM  20020  O5* A   A 958     230.566  93.355  19.472  1.00 71.03      A16S
ATOM  20021  C5* A   A 958     229.657  92.711  20.391  1.00 71.03      A16S
ATOM  20022  C4* A   A 958     229.203  93.700  21.441  1.00 71.03      A16S
ATOM  20023  O4* A   A 958     230.250  93.916  22.411  1.00 71.03      A16S
ATOM  20024  C1* A   A 958     230.255  95.269  22.813  1.00 71.03      A16S
ATOM  20025  N9  A   A 958     231.623  95.767  22.676  1.00 77.78      A16S
ATOM  20026  C4  A   A 958     232.157  96.889  23.261  1.00 77.78      A16S
ATOM  20027  N3  A   A 958     231.527  97.780  24.039  1.00 77.78      A16S
ATOM  20028  C2  A   A 958     232.372  98.719  24.457  1.00 77.78      A16S
ATOM  20029  N1  A   A 958     233.678  98.861  24.203  1.00 77.78      A16S
ATOM  20030  C6  A   A 958     234.282  97.949  23.417  1.00 77.78      A16S
ATOM  20031  N6  A   A 958     235.584  98.088  23.170  1.00 77.78      A16S
ATOM  20032  C5  A   A 958     233.493  96.900  22.906  1.00 77.78      A16S
ATOM  20033  N7  A   A 958     233.791  95.821  22.087  1.00 77.78      A16S
ATOM  20034  C8  A   A 958     232.650  95.188  21.974  1.00 77.78      A16S
ATOM  20035  C2* A   A 958     229.154  96.017  22.049  1.00 71.03      A16S
ATOM  20036  O2* A   A 958     228.035  96.223  22.885  1.00 71.03      A16S
ATOM  20037  C3* A   A 958     228.869  95.071  20.885  1.00 71.03      A16S
ATOM  20038  O3* A   A 958     227.503  95.068  20.487  1.00 71.03      A16S
ATOM  20039  P   A   A 959     227.106  95.479  18.987  1.00 53.95      A16S
ATOM  20040  O1P A   A 959     225.767  94.884  18.663  1.00 69.74      A16S
ATOM  20041  O2P A   A 959     228.274  95.182  18.105  1.00 69.74      A16S
ATOM  20042  O5* A   A 959     226.921  97.054  19.118  1.00 53.95      A16S
ATOM  20043  C5* A   A 959     225.945  97.592  20.028  1.00 53.95      A16S
ATOM  20044  C4* A   A 959     226.303  99.000  20.402  1.00 53.95      A16S
ATOM  20045  O4* A   A 959     227.511  98.981  21.189  1.00 53.95      A16S
ATOM  20046  C1* A   A 959     228.282 100.128  20.892  1.00 53.95      A16S
ATOM  20047  N9  A   A 959     229.639  99.704  20.534  1.00 69.74      A16S
ATOM  20048  C4  A   A 959     230.787 100.122  21.160  1.00 69.74      A16S
ATOM  20049  N3  A   A 959     230.884 100.977  22.190  1.00 69.74      A16S
ATOM  20050  C2  A   A 959     232.149 101.143  22.538  1.00 69.74      A16S
ATOM  20051  N1  A   A 959     233.251 100.600  22.015  1.00 69.74      A16S
ATOM  20052  C6  A   A 959     233.119  99.746  20.981  1.00 69.74      A16S
ATOM  20053  N6  A   A 959     234.220  99.206  20.460  1.00 69.74      A16S
ATOM  20054  C5  A   A 959     231.826  99.479  20.517  1.00 69.74      A16S
ATOM  20055  N7  A   A 959     231.347  98.667  19.500  1.00 69.74      A16S
ATOM  20056  C8  A   A 959     230.048  98.834  19.550  1.00 69.74      A16S
ATOM  20057  C2* A   A 959     227.544 100.945  19.830  1.00 53.95      A16S
ATOM  20058  O2* A   A 959     226.857 101.995  20.466  1.00 53.95      A16S
ATOM  20059  C3* A   A 959     226.609  99.904  19.224  1.00 53.95      A16S
ATOM  20060  O3* A   A 959     225.410 100.472  18.697  1.00 53.95      A16S
ATOM  20061  P   U   A 960     224.727  99.838  17.374  1.00 61.84      A16S
ATOM  20062  O1P U   A 960     223.372 100.439  17.260  1.00 63.33      A16S
ATOM  20063  O2P U   A 960     224.870  98.354  17.379  1.00 63.33      A16S
ATOM  20064  O5* U   A 960     225.572 100.419  16.156  1.00 61.84      A16S
ATOM  20065  C5* U   A 960     226.987 100.562  16.246  1.00 61.84      A16S
ATOM  20066  C4* U   A 960     227.320 101.956  16.688  1.00 61.84      A16S
ATOM  20067  O4* U   A 960     228.671 101.981  17.180  1.00 61.84      A16S
ATOM  20068  C1* U   A 960     229.510 102.645  16.267  1.00 61.84      A16S
ATOM  20069  N1  U   A 960     230.533 101.663  15.859  1.00 63.33      A16S
ATOM  20070  C6  U   A 960     231.725 101.583  16.547  1.00 63.33      A16S
ATOM  20071  C2  U   A 960     230.277 100.810  14.795  1.00 63.33      A16S
ATOM  20072  O2  U   A 960     229.246 100.821  14.164  1.00 63.33      A16S
ATOM  20073  N3  U   A 960     231.283  99.927  14.508  1.00 63.33      A16S
ATOM  20074  C4  U   A 960     232.489  99.795  15.162  1.00 63.33      A16S
ATOM  20075  O4  U   A 960     233.290  98.940  14.788  1.00 63.33      A16S
ATOM  20076  C5  U   A 960     232.681 100.699  16.246  1.00 63.33      A16S
ATOM  20077  C2* U   A 960     228.655 103.237  15.141  1.00 61.84      A16S
ATOM  20078  O2* U   A 960     228.980 104.576  14.826  1.00 61.84      A16S
ATOM  20079  C3* U   A 960     227.220 103.042  15.636  1.00 61.84      A16S
ATOM  20080  O3* U   A 960     226.441 104.175  16.079  1.00 61.84      A16S
ATOM  20081  P   U   A 961     226.971 105.190  17.221  1.00 64.55      A16S
ATOM  20082  O1P U   A 961     227.274 106.488  16.574  1.00 48.53      A16S
ATOM  20083  O2P U   A 961     227.982 104.554  18.101  1.00 48.53      A16S
ATOM  20084  O5* U   A 961     225.661 105.404  18.099  1.00 64.55      A16S
ATOM  20085  C5* U   A 961     225.013 104.280  18.720  1.00 64.55      A16S
ATOM  20086  C4* U   A 961     223.699 104.699  19.322  1.00 64.55      A16S
ATOM  20087  O4* U   A 961     223.929 105.819  20.215  1.00 64.55      A16S
ATOM  20088  C1* U   A 961     222.798 106.671  20.217  1.00 64.55      A16S
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ATOM	20089	N1	U	A	961	223.193	108.007	19.748	1.00	48.53	A16S
ATOM	20090	C6	U	A	961	224.392	108.240	19.123	1.00	48.53	A16S
ATOM	20091	C2	U	A	961	222.278	109.033	19.931	1.00	48.53	A16S
ATOM	20092	O2	U	A	961	221.214	108.874	20.502	1.00	48.53	A16S
ATOM	20093	N3	U	A	961	222.647	110.247	19.414	1.00	48.53	A16S
ATOM	20094	C4	U	A	961	223.808	110.535	18.748	1.00	48.53	A16S
ATOM	20095	O4	U	A	961	223.937	111.640	18.229	1.00	48.53	A16S
ATOM	20096	C5	U	A	961	224.722	109.435	18.628	1.00	48.53	A16S
ATOM	20097	C2*	U	A	961	221.765	106.067	19.267	1.00	64.55	A16S
ATOM	20098	O2*	U	A	961	220.812	105.301	19.983	1.00	64.55	A16S
ATOM	20099	C3*	U	A	961	222.641	105.217	18.360	1.00	64.55	A16S
ATOM	20100	O3*	U	A	961	221.881	104.183	17.741	1.00	64.55	A16S
ATOM	20101	P	C	A	962	221.170	104.461	16.319	1.00	52.26	A16S
ATOM	20102	O1P	C	A	962	220.281	103.292	16.050	1.00	58.35	A16S
ATOM	20103	O2P	C	A	962	222.221	104.830	15.319	1.00	58.35	A16S
ATOM	20104	O5*	C	A	962	220.281	105.762	16.582	1.00	52.26	A16S
ATOM	20105	C5*	C	A	962	219.206	105.730	17.515	1.00	52.26	A16S
ATOM	20106	C4*	C	A	962	218.474	107.042	17.530	1.00	52.26	A16S
ATOM	20107	O4*	C	A	962	219.322	108.098	18.046	1.00	52.26	A16S
ATOM	20108	C1*	C	A	962	218.906	109.346	17.497	1.00	52.26	A16S
ATOM	20109	N1	C	A	962	220.017	109.963	16.741	1.00	58.35	A16S
ATOM	20110	C6	C	A	962	221.184	109.290	16.506	1.00	58.35	A16S
ATOM	20111	C2	C	A	962	219.838	111.265	16.230	1.00	58.35	A16S
ATOM	20112	O2	C	A	962	218.789	111.878	16.489	1.00	58.35	A16S
ATOM	20113	N3	C	A	962	220.809	111.815	15.472	1.00	58.35	A16S
ATOM	20114	C4	C	A	962	221.930	111.135	15.228	1.00	58.35	A16S
ATOM	20115	N4	C	A	962	222.845	111.709	14.455	1.00	58.35	A16S
ATOM	20116	C5	C	A	962	222.156	109.833	15.763	1.00	58.35	A16S
ATOM	20117	C2*	C	A	962	217.753	109.058	16.536	1.00	52.26	A16S
ATOM	20118	O2*	C	A	962	216.498	109.287	17.158	1.00	52.26	A16S
ATOM	20119	C3*	C	A	962	218.002	107.597	16.202	1.00	52.26	A16S
ATOM	20120	O3*	C	A	962	216.836	106.992	15.709	1.00	52.26	A16S
ATOM	20121	P	G	A	963	216.663	106.812	14.126	1.00	45.51	A16S
ATOM	20122	O1P	G	A	963	215.583	105.805	13.960	1.00	43.14	A16S
ATOM	20123	O2P	G	A	963	218.000	106.552	13.526	1.00	43.14	A16S
ATOM	20124	O5*	G	A	963	216.185	108.241	13.611	1.00	45.51	A16S
ATOM	20125	C5*	G	A	963	214.935	108.767	14.016	1.00	45.51	A16S
ATOM	20126	C4*	G	A	963	214.930	110.258	13.869	1.00	45.51	A16S
ATOM	20127	O4*	G	A	963	216.163	110.776	14.422	1.00	45.51	A16S
ATOM	20128	C1*	G	A	963	216.517	111.980	13.760	1.00	45.51	A16S
ATOM	20129	N9	G	A	963	217.813	111.805	13.111	1.00	43.14	A16S
ATOM	20130	C4	G	A	963	218.447	112.732	12.320	1.00	43.14	A16S
ATOM	20131	N3	G	A	963	218.023	113.985	12.081	1.00	43.14	A16S
ATOM	20132	C2	G	A	963	218.805	114.610	11.234	1.00	43.14	A16S
ATOM	20133	N2	G	A	963	218.546	115.864	10.905	1.00	43.14	A16S
ATOM	20134	N1	G	A	963	219.904	114.049	10.649	1.00	43.14	A16S
ATOM	20135	C6	G	A	963	220.354	112.754	10.873	1.00	43.14	A16S
ATOM	20136	O6	G	A	963	221.340	112.326	10.262	1.00	43.14	A16S
ATOM	20137	C5	G	A	963	219.545	112.083	11.807	1.00	43.14	A16S
ATOM	20138	N7	G	A	963	219.646	110.802	12.324	1.00	43.14	A16S
ATOM	20139	C8	G	A	963	218.604	110.684	13.101	1.00	43.14	A16S
ATOM	20140	C2*	G	A	963	215.442	112.240	12.708	1.00	45.51	A16S
ATOM	20141	O2*	G	A	963	214.470	113.093	13.272	1.00	45.51	A16S
ATOM	20142	C3*	G	A	963	214.903	110.838	12.466	1.00	45.51	A16S
ATOM	20143	O3*	G	A	963	213.591	110.890	11.929	1.00	45.51	A16S
ATOM	20144	P	A	A	964	213.362	110.644	10.358	1.00	49.70	A16S
ATOM	20145	O1P	A	A	964	211.912	110.826	10.097	1.00	41.73	A16S
ATOM	20146	O2P	A	A	964	214.013	109.357	9.994	1.00	41.73	A16S
ATOM	20147	O5*	A	A	964	214.143	111.844	9.661	1.00	49.70	A16S
ATOM	20148	C5*	A	A	964	213.680	113.198	9.796	1.00	49.70	A16S
ATOM	20149	C4*	A	A	964	214.460	114.115	8.878	1.00	49.70	A16S
ATOM	20150	O4*	A	A	964	215.835	114.181	9.326	1.00	49.70	A16S
ATOM	20151	C1*	A	A	964	216.708	114.158	8.215	1.00	49.70	A16S
ATOM	20152	N9	A	A	964	217.477	112.917	8.302	1.00	41.73	A16S
ATOM	20153	C4	A	A	964	218.577	112.580	7.560	1.00	41.73	A16S
ATOM	20154	N3	A	A	964	219.164	113.313	6.601	1.00	41.73	A16S
ATOM	20155	C2	A	A	964	220.202	112.663	6.097	1.00	41.73	A16S
ATOM	20156	N1	A	A	964	220.686	111.454	6.424	1.00	41.73	A16S
ATOM	20157	C6	A	A	964	220.069	110.750	7.400	1.00	41.73	A16S
ATOM	20158	N6	A	A	964	220.550	109.554	7.738	1.00	41.73	A16S
ATOM	20159	C5	A	A	964	218.956	111.324	8.003	1.00	41.73	A16S
ATOM	20160	N7	A	A	964	218.110	110.874	8.999	1.00	41.73	A16S
ATOM	20161	C8	A	A	964	217.252	111.850	9.141	1.00	41.73	A16S
ATOM	20162	C2*	A	A	964	215.852	114.257	6.951	1.00	49.70	A16S
ATOM	20163	O2*	A	A	964	215.757	115.612	6.566	1.00	49.70	A16S
ATOM	20164	C3*	A	A	964	214.532	113.662	7.430	1.00	49.70	A16S
ATOM	20165	O3*	A	A	964	213.393	114.105	6.700	1.00	49.70	A16S

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ATOM  20166  P    A   A 965     212.513 113.033   5.889  1.00 50.42      A16S
ATOM  20167  O1P  A   A 965     211.254 113.675   5.411  1.00 48.27      A16S
ATOM  20168  O2P  A   A 965     212.452 111.764   6.675  1.00 48.27      A16S
ATOM  20169  O5*  A   A 965     213.400 112.765   4.605  1.00 50.42      A16S
ATOM  20170  C5*  A   A 965     213.540 113.775   3.601  1.00 50.42      A16S
ATOM  20171  C4*  A   A 965     213.539 113.132   2.252  1.00 50.42      A16S
ATOM  20172  O4*  A   A 965     214.802 112.445   2.073  1.00 50.42      A16S
ATOM  20173  C1*  A   A 965     214.616 111.047   2.041  1.00 50.42      A16S
ATOM  20174  N9   A   A 965     215.532 110.486   3.034  1.00 48.27      A16S
ATOM  20175  C4   A   A 965     216.642 109.706   2.817  1.00 48.27      A16S
ATOM  20176  N3   A   A 965     217.132 109.285   1.639  1.00 48.27      A16S
ATOM  20177  C2   A   A 965     218.221 108.539   1.828  1.00 48.27      A16S
ATOM  20178  N1   A   A 965     218.824 108.189   2.976  1.00 48.27      A16S
ATOM  20179  C6   A   A 965     218.294 108.622   4.139  1.00 48.27      A16S
ATOM  20180  N6   A   A 965     218.863 108.250   5.284  1.00 48.27      A16S
ATOM  20181  C5   A   A 965     217.160 109.432   4.074  1.00 48.27      A16S
ATOM  20182  N7   A   A 965     216.404 110.037   5.058  1.00 48.27      A16S
ATOM  20183  C8   A   A 965     215.453 110.644   4.395  1.00 48.27      A16S
ATOM  20184  C2*  A   A 965     213.162 110.769   2.412  1.00 50.42      A16S
ATOM  20185  O2*  A   A 965     212.647 109.596   1.828  1.00 50.42      A16S
ATOM  20186  C3*  A   A 965     212.453 112.091   2.103  1.00 50.42      A16S
ATOM  20187  O3*  A   A 965     211.670 112.333   0.923  1.00 50.42      A16S
ATOM  20188  P    G   A 966     212.041 111.670  -0.488  1.00 44.07      A16S
ATOM  20189  O1P  G   A 966     212.645 110.326  -0.328  1.00 53.71      A16S
ATOM  20190  O2P  G   A 966     210.813 111.815  -1.301  1.00 53.71      A16S
ATOM  20191  O5*  G   A 966     213.121 112.678  -1.081  1.00 44.07      A16S
ATOM  20192  C5*  G   A 966     214.311 112.188  -1.708  1.00 44.07      A16S
ATOM  20193  C4*  G   A 966     214.484 112.826  -3.053  1.00 44.07      A16S
ATOM  20194  O4*  G   A 966     213.421 112.404  -3.950  1.00 44.07      A16S
ATOM  20195  C1*  G   A 966     213.237 113.400  -4.944  1.00 44.07      A16S
ATOM  20196  N9   G   A 966     211.816 113.683  -5.135  1.00 53.71      A16S
ATOM  20197  C4   G   A 966     211.299 114.478  -6.124  1.00 53.71      A16S
ATOM  20198  N3   G   A 966     212.012 115.114  -7.072  1.00 53.71      A16S
ATOM  20199  C2   G   A 966     211.247 115.804  -7.886  1.00 53.71      A16S
ATOM  20200  N2   G   A 966     211.797 116.495  -8.895  1.00 53.71      A16S
ATOM  20201  N1   G   A 966     209.885 115.868  -7.777  1.00 53.71      A16S
ATOM  20202  C6   G   A 966     209.127 115.220  -6.809  1.00 53.71      A16S
ATOM  20203  O6   G   A 966     207.893 115.347  -6.805  1.00 53.71      A16S
ATOM  20204  C5   G   A 966     209.941 114.472  -5.929  1.00 53.71      A16S
ATOM  20205  N7   G   A 966     209.603 113.685  -4.838  1.00 53.71      A16S
ATOM  20206  C8   G   A 966     210.748 113.236  -4.398  1.00 53.71      A16S
ATOM  20207  C2*  G   A 966     214.034 114.637  -4.525  1.00 44.07      A16S
ATOM  20208  O2*  G   A 966     215.190 114.750  -5.330  1.00 44.07      A16S
ATOM  20209  C3*  G   A 966     214.343 114.333  -3.065  1.00 44.07      A16S
ATOM  20210  O3*  G   A 966     215.496 115.001  -2.615  1.00 44.07      A16S
ATOM  20211  P    C   A 967     215.322 116.298  -1.693  1.00 26.69      A16S
ATOM  20212  O1P  C   A 967     216.671 116.651  -1.179  1.00 73.55      A16S
ATOM  20213  O2P  C   A 967     214.221 115.989  -0.737  1.00 73.55      A16S
ATOM  20214  O5*  C   A 967     214.832 117.451  -2.685  1.00 26.69      A16S
ATOM  20215  C5*  C   A 967     215.765 118.095  -3.565  1.00 26.69      A16S
ATOM  20216  C4*  C   A 967     215.044 118.769  -4.694  1.00 26.69      A16S
ATOM  20217  O4*  C   A 967     214.005 117.886  -5.149  1.00 26.69      A16S
ATOM  20218  C1*  C   A 967     212.948 118.646  -5.699  1.00 26.69      A16S
ATOM  20219  N1   C   A 967     211.661 118.187  -5.164  1.00 73.55      A16S
ATOM  20220  C6   C   A 967     211.594 117.395  -4.051  1.00 73.55      A16S
ATOM  20221  C2   C   A 967     210.490 118.595  -5.818  1.00 73.55      A16S
ATOM  20222  O2   C   A 967     210.580 119.296  -6.846  1.00 73.55      A16S
ATOM  20223  N3   C   A 967     209.299 118.218  -5.318  1.00 73.55      A16S
ATOM  20224  C4   C   A 967     209.246 117.456  -4.222  1.00 73.55      A16S
ATOM  20225  N4   C   A 967     208.045 117.113  -3.758  1.00 73.55      A16S
ATOM  20226  C5   C   A 967     210.421 117.012  -3.552  1.00 73.55      A16S
ATOM  20227  C2*  C   A 967     213.211 120.115  -5.404  1.00 26.69      A16S
ATOM  20228  O2*  C   A 967     213.577 120.712  -6.621  1.00 26.69      A16S
ATOM  20229  C3*  C   A 967     214.312 120.049  -4.347  1.00 26.69      A16S
ATOM  20230  O3*  C   A 967     215.181 121.167  -4.487  1.00 26.69      A16S
ATOM  20231  P    A   A 968     215.634 122.012  -3.200  1.00 61.40      A16S
ATOM  20232  O1P  A   A 968     215.326 123.430  -3.489  1.00 55.99      A16S
ATOM  20233  O2P  A   A 968     217.024 121.610  -2.879  1.00 55.99      A16S
ATOM  20234  O5*  A   A 968     214.689 121.526  -2.015  1.00 61.40      A16S
ATOM  20235  C5*  A   A 968     214.972 121.901  -0.646  1.00 61.40      A16S
ATOM  20236  C4*  A   A 968     213.963 121.278   0.291  1.00 61.40      A16S
ATOM  20237  O4*  A   A 968     212.649 121.650  -0.174  1.00 61.40      A16S
ATOM  20238  C1*  A   A 968     211.887 120.499  -0.458  1.00 61.40      A16S
ATOM  20239  N9   A   A 968     211.153 120.763  -1.695  1.00 55.99      A16S
ATOM  20240  C4   A   A 968     209.825 120.512  -1.927  1.00 55.99      A16S
ATOM  20241  N3   A   A 968     208.944 119.951  -1.085  1.00 55.99      A16S
ATOM  20242  C2   A   A 968     207.737 119.904  -1.639  1.00 55.99      A16S
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ATOM  20243  N1  A   A 968     207.344 120.318  -2.851  1.00 55.99      A16S
ATOM  20244  C6  A   A 968     208.261 120.865  -3.675  1.00 55.99      A16S
ATOM  20245  N6  A   A 968     207.876 121.262  -4.887  1.00 55.99      A16S
ATOM  20246  C5  A   A 968     209.572 120.980  -3.203  1.00 55.99      A16S
ATOM  20247  N7  A   A 968     210.723 121.499  -3.775  1.00 55.99      A16S
ATOM  20248  C8  A   A 968     211.631 121.341  -2.846  1.00 55.99      A16S
ATOM  20249  C2* A   A 968     212.857 119.324  -0.549  1.00 61.40      A16S
ATOM  20250  O2* A   A 968     212.221 118.141  -0.103  1.00 61.40      A16S
ATOM  20251  C3* A   A 968     213.971 119.758   0.396  1.00 61.40      A16S
ATOM  20252  O3* A   A 968     213.615 119.398   1.719  1.00 61.40      A16S
ATOM  20253  P   A   A 969     214.726 119.423   2.868  1.00 41.29      A16S
ATOM  20254  O1P A   A 969     214.179 118.771   4.082  1.00 48.85      A16S
ATOM  20255  O2P A   A 969     215.239 120.816   2.939  1.00 48.85      A16S
ATOM  20256  O5* A   A 969     215.873 118.476   2.313  1.00 41.29      A16S
ATOM  20257  C5* A   A 969     215.672 117.057   2.222  1.00 41.29      A16S
ATOM  20258  C4* A   A 969     216.578 116.345   3.193  1.00 41.29      A16S
ATOM  20259  O4* A   A 969     216.365 114.920   3.046  1.00 41.29      A16S
ATOM  20260  C1* A   A 969     217.587 114.231   3.237  1.00 41.29      A16S
ATOM  20261  N9  A   A 969     217.922 113.530   1.997  1.00 48.85      A16S
ATOM  20262  C4  A   A 969     218.789 112.471   1.873  1.00 48.85      A16S
ATOM  20263  N3  A   A 969     219.469 111.856   2.852  1.00 48.85      A16S
ATOM  20264  C2  A   A 969     220.232 110.890   2.359  1.00 48.85      A16S
ATOM  20265  N1  A   A 969     220.379 110.497   1.098  1.00 48.85      A16S
ATOM  20266  C6  A   A 969     219.675 111.137   0.136  1.00 48.85      A16S
ATOM  20267  N6  A   A 969     219.824 110.751  -1.136  1.00 48.85      A16S
ATOM  20268  C5  A   A 969     218.831 112.176   0.529  1.00 48.85      A16S
ATOM  20269  N7  A   A 969     217.988 113.013  -0.186  1.00 48.85      A16S
ATOM  20270  C8  A   A 969     217.471 113.794   0.728  1.00 48.85      A16S
ATOM  20271  C2* A   A 969     218.653 115.267   3.589  1.00 41.29      A16S
ATOM  20272  O2* A   A 969     218.776 115.374   4.989  1.00 41.29      A16S
ATOM  20273  C3* A   A 969     218.073 116.521   2.962  1.00 41.29      A16S
ATOM  20274  O3* A   A 969     218.626 117.715   3.511  1.00 41.29      A16S
ATOM  20275  P   C   A 970     219.945 118.354   2.832  1.00 30.27      A16S
ATOM  20276  O1P C   A 970     220.484 119.400   3.732  1.00 49.83      A16S
ATOM  20277  O2P C   A 970     219.637 118.718   1.410  1.00 49.83      A16S
ATOM  20278  O5* C   A 970     220.985 117.152   2.924  1.00 30.27      A16S
ATOM  20279  C5* C   A 970     221.417 116.682   4.210  1.00 30.27      A16S
ATOM  20280  C4* C   A 970     222.465 115.614   4.064  1.00 30.27      A16S
ATOM  20281  O4* C   A 970     221.885 114.462   3.410  1.00 30.27      A16S
ATOM  20282  C1* C   A 970     222.859 113.824   2.599  1.00 30.27      A16S
ATOM  20283  N1  C   A 970     222.375 113.791   1.206  1.00 49.83      A16S
ATOM  20284  C6  C   A 970     221.474 114.711   0.760  1.00 49.83      A16S
ATOM  20285  C2  C   A 970     222.863 112.809   0.336  1.00 49.83      A16S
ATOM  20286  O2  C   A 970     223.651 111.961   0.766  1.00 49.83      A16S
ATOM  20287  N3  C   A 970     222.459 112.806  -0.948  1.00 49.83      A16S
ATOM  20288  C4  C   A 970     221.593 113.722  -1.373  1.00 49.83      A16S
ATOM  20289  N4  C   A 970     221.231 113.698  -2.653  1.00 49.83      A16S
ATOM  20290  C5  C   A 970     221.060 114.711  -0.506  1.00 49.83      A16S
ATOM  20291  C2* C   A 970     224.162 114.602   2.758  1.00 30.27      A16S
ATOM  20292  O2* C   A 970     224.906 113.983   3.773  1.00 30.27      A16S
ATOM  20293  C3* C   A 970     223.655 115.965   3.197  1.00 30.27      A16S
ATOM  20294  O3* C   A 970     224.626 116.735   3.879  1.00 30.27      A16S
ATOM  20295  P   G   A 971     225.083 118.134   3.235  1.00 45.65      A16S
ATOM  20296  O1P G   A 971     224.119 119.184   3.671  1.00 80.27      A16S
ATOM  20297  O2P G   A 971     225.269 117.887   1.776  1.00 80.27      A16S
ATOM  20298  O5* G   A 971     226.524 118.404   3.872  1.00 45.65      A16S
ATOM  20299  C5* G   A 971     226.756 118.288   5.292  1.00 45.65      A16S
ATOM  20300  C4* G   A 971     227.378 119.566   5.830  1.00 45.65      A16S
ATOM  20301  O4* G   A 971     228.833 119.524   5.797  1.00 45.65      A16S
ATOM  20302  C1* G   A 971     229.296 120.790   5.400  1.00 45.65      A16S
ATOM  20303  N9  G   A 971     230.667 120.687   4.916  1.00 80.27      A16S
ATOM  20304  C4  G   A 971     231.783 120.475   5.685  1.00 80.27      A16S
ATOM  20305  N3  G   A 971     231.801 120.293   7.013  1.00 80.27      A16S
ATOM  20306  C2  G   A 971     233.025 120.129   7.469  1.00 80.27      A16S
ATOM  20307  N2  G   A 971     233.223 119.947   8.772  1.00 80.27      A16S
ATOM  20308  N1  G   A 971     234.145 120.136   6.684  1.00 80.27      A16S
ATOM  20309  C6  G   A 971     234.151 120.320   5.311  1.00 80.27      A16S
ATOM  20310  O6  G   A 971     235.222 120.309   4.688  1.00 80.27      A16S
ATOM  20311  C5  G   A 971     232.842 120.502   4.809  1.00 80.27      A16S
ATOM  20312  N7  G   A 971     232.401 120.715   3.512  1.00 80.27      A16S
ATOM  20313  C8  G   A 971     231.106 120.811   3.622  1.00 80.27      A16S
ATOM  20314  C2* G   A 971     228.250 121.259   4.395  1.00 45.65      A16S
ATOM  20315  O2* G   A 971     228.352 122.648   4.145  1.00 45.65      A16S
ATOM  20316  C3* G   A 971     226.974 120.857   5.119  1.00 45.65      A16S
ATOM  20317  O3* G   A 971     226.661 121.886   6.046  1.00 45.65      A16S
ATOM  20318  P   C   A 972     225.479 122.915   5.708  1.00 46.54      A16S
ATOM  20319  O1P C   A 972     225.274 122.877   4.239  1.00 34.62      A16S
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ATOM  20320  O2P C   A 972     225.756 124.203   6.335  1.00 34.62      A16S
ATOM  20321  O5* C   A 972     224.231 122.299   6.494  1.00 46.54      A16S
ATOM  20322  C5* C   A 972     223.939 120.874   6.481  1.00 46.54      A16S
ATOM  20323  C4* C   A 972     222.547 120.623   7.035  1.00 46.54      A16S
ATOM  20324  O4* C   A 972     222.000 119.388   6.504  1.00 46.54      A16S
ATOM  20325  C1* C   A 972     221.161 118.784   7.467  1.00 46.54      A16S
ATOM  20326  N1   C   A 972     221.775 117.525   7.891  1.00 34.62      A16S
ATOM  20327  C6   C   A 972     223.071 117.235   7.587  1.00 34.62      A16S
ATOM  20328  C2   C   A 972     221.016 116.638   8.631  1.00 34.62      A16S
ATOM  20329  O2   C   A 972     219.844 116.933   8.887  1.00 34.62      A16S
ATOM  20330  N3   C   A 972     221.571 115.484   9.058  1.00 34.62      A16S
ATOM  20331  C4   C   A 972     222.843 115.215   8.772  1.00 34.62      A16S
ATOM  20332  N4   C   A 972     223.364 114.073   9.230  1.00 34.62      A16S
ATOM  20333  C5   C   A 972     223.641 116.105   8.007  1.00 34.62      A16S
ATOM  20334  C2* C   A 972     221.083 119.727   8.658  1.00 46.54      A16S
ATOM  20335  O2* C   A 972     219.969 120.567   8.477  1.00 46.54      A16S
ATOM  20336  C3* C   A 972     222.405 120.469   8.539  1.00 46.54      A16S
ATOM  20337  O3* C   A 972     222.402 121.700   9.240  1.00 46.54      A16S
ATOM  20338  P    G   A 973     223.106 121.784  10.686  1.00 54.78      A16S
ATOM  20339  O1P G   A 973     223.405 123.231  10.850  1.00 34.99      A16S
ATOM  20340  O2P G   A 973     224.205 120.787  10.813  1.00 34.99      A16S
ATOM  20341  O5* G   A 973     221.973 121.295  11.699  1.00 54.78      A16S
ATOM  20342  C5* G   A 973     220.718 122.005  11.841  1.00 54.78      A16S
ATOM  20343  C4* G   A 973     219.908 121.428  12.986  1.00 54.78      A16S
ATOM  20344  O4* G   A 973     219.383 120.122  12.631  1.00 54.78      A16S
ATOM  20345  C1* G   A 973     219.419 119.262  13.757  1.00 54.78      A16S
ATOM  20346  N9   G   A 973     220.349 118.179  13.457  1.00 34.99      A16S
ATOM  20347  C4   G   A 973     220.284 116.855  13.860  1.00 34.99      A16S
ATOM  20348  N3   G   A 973     219.324 116.288  14.627  1.00 34.99      A16S
ATOM  20349  C2   G   A 973     219.559 114.991  14.839  1.00 34.99      A16S
ATOM  20350  N2   G   A 973     218.712 114.262  15.565  1.00 34.99      A16S
ATOM  20351  N1   G   A 973     220.642 114.319  14.348  1.00 34.99      A16S
ATOM  20352  C6   G   A 973     221.637 114.884  13.562  1.00 34.99      A16S
ATOM  20353  O6   G   A 973     222.578 114.192  13.173  1.00 34.99      A16S
ATOM  20354  C5   G   A 973     221.400 116.258  13.319  1.00 34.99      A16S
ATOM  20355  N7   G   A 973     222.143 117.173  12.592  1.00 34.99      A16S
ATOM  20356  C8   G   A 973     221.486 118.293  12.705  1.00 34.99      A16S
ATOM  20357  C2* G   A 973     219.884 120.095  14.950  1.00 54.78      A16S
ATOM  20358  O2* G   A 973     218.743 120.568  15.630  1.00 54.78      A16S
ATOM  20359  C3* G   A 973     220.688 121.200  14.267  1.00 54.78      A16S
ATOM  20360  O3* G   A 973     220.796 122.416  15.009  1.00 54.78      A16S
ATOM  20361  P    A   A 974     221.576 122.440  16.421  1.00 50.15      A16S
ATOM  20362  O1P A   A 974     221.702 121.060  16.990  1.00 36.16      A16S
ATOM  20363  O2P A   A 974     220.870 123.492  17.183  1.00 36.16      A16S
ATOM  20364  O5* A   A 974     223.027 123.019  16.125  1.00 50.15      A16S
ATOM  20365  C5* A   A 974     223.726 122.672  14.941  1.00 50.15      A16S
ATOM  20366  C4* A   A 974     225.100 122.168  15.280  1.00 50.15      A16S
ATOM  20367  O4* A   A 974     224.990 121.030  16.168  1.00 50.15      A16S
ATOM  20368  C1* A   A 974     225.580 119.894  15.572  1.00 50.15      A16S
ATOM  20369  N9   A   A 974     224.715 118.755  15.848  1.00 36.16      A16S
ATOM  20370  C4   A   A 974     225.026 117.423  15.756  1.00 36.16      A16S
ATOM  20371  N3   A   A 974     226.191 116.878  15.376  1.00 36.16      A16S
ATOM  20372  C2   A   A 974     226.126 115.544  15.430  1.00 36.16      A16S
ATOM  20373  N1   A   A 974     225.102 114.759  15.792  1.00 36.16      A16S
ATOM  20374  C6   A   A 974     223.940 115.350  16.155  1.00 36.16      A16S
ATOM  20375  N6   A   A 974     222.902 114.588  16.503  1.00 36.16      A16S
ATOM  20376  C5   A   A 974     223.885 116.745  16.144  1.00 36.16      A16S
ATOM  20377  N7   A   A 974     222.869 117.630  16.461  1.00 36.16      A16S
ATOM  20378  C8   A   A 974     223.410 118.806  16.264  1.00 36.16      A16S
ATOM  20379  C2* A   A 974     225.674 120.189  14.079  1.00 50.15      A16S
ATOM  20380  O2* A   A 974     226.750 119.491  13.487  1.00 50.15      A16S
ATOM  20381  C3* A   A 974     225.882 121.696  14.069  1.00 50.15      A16S
ATOM  20382  O3* A   A 974     227.244 122.013  14.263  1.00 50.15      A16S
ATOM  20383  P    A   A 975     227.859 123.290  13.531  1.00 44.25      A16S
ATOM  20384  O1P A   A 975     226.772 124.036  12.821  1.00 45.99      A16S
ATOM  20385  O2P A   A 975     229.024 122.788  12.789  1.00 45.99      A16S
ATOM  20386  O5* A   A 975     228.379 124.221  14.712  1.00 44.25      A16S
ATOM  20387  C5* A   A 975     228.479 125.653  14.533  1.00 44.25      A16S
ATOM  20388  C4* A   A 975     228.069 126.380  15.799  1.00 44.25      A16S
ATOM  20389  O4* A   A 975     228.263 127.799  15.624  1.00 44.25      A16S
ATOM  20390  C1* A   A 975     227.052 128.481  15.812  1.00 44.25      A16S
ATOM  20391  N9   A   A 975     226.632 128.887  14.488  1.00 45.99      A16S
ATOM  20392  C4   A   A 975     226.361 130.157  14.084  1.00 45.99      A16S
ATOM  20393  N3   A   A 975     226.349 131.255  14.846  1.00 45.99      A16S
ATOM  20394  C2   A   A 975     226.086 132.328  14.103  1.00 45.99      A16S
ATOM  20395  N1   A   A 975     225.848 132.412  12.775  1.00 45.99      A16S
ATOM  20396  C6   A   A 975     225.864 131.274  12.045  1.00 45.99      A16S
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ATOM  20397  N6  A   A 975     225.623 131.345  10.734  1.00 45.99      A16S
ATOM  20398  C5  A   A 975     226.135 130.079  12.718  1.00 45.99      A16S
ATOM  20399  N7  A   A 975     226.228 128.771  12.278  1.00 45.99      A16S
ATOM  20400  C8  A   A 975     226.506 128.100  13.369  1.00 45.99      A16S
ATOM  20401  C2* A   A 975     226.115 127.565  16.592  1.00 44.25      A16S
ATOM  20402  O2* A   A 975     226.251 127.839  17.960  1.00 44.25      A16S
ATOM  20403  C3* A   A 975     226.618 126.178  16.204  1.00 44.25      A16S
ATOM  20404  O3* A   A 975     226.552 125.189  17.249  1.00 44.25      A16S
ATOM  20405  P   G   A 976     227.502 125.318  18.550  1.00 52.16      A16S
ATOM  20406  O1P G   A 976     226.711 125.730  19.729  1.00 75.84      A16S
ATOM  20407  O2P G   A 976     228.683 126.106  18.166  1.00 75.84      A16S
ATOM  20408  O5* G   A 976     228.030 123.840  18.789  1.00 52.16      A16S
ATOM  20409  C5* G   A 976     228.650 123.131  17.712  1.00 52.16      A16S
ATOM  20410  C4* G   A 976     230.135 122.923  17.965  1.00 52.16      A16S
ATOM  20411  O4* G   A 976     231.061 123.947  17.532  1.00 52.16      A16S
ATOM  20412  C1* G   A 976     232.311 123.626  18.105  1.00 52.16      A16S
ATOM  20413  N9  G   A 976     233.183 124.794  18.081  1.00 75.84      A16S
ATOM  20414  C4  G   A 976     234.357 124.931  17.374  1.00 75.84      A16S
ATOM  20415  N3  G   A 976     234.917 124.003  16.571  1.00 75.84      A16S
ATOM  20416  C2  G   A 976     236.043 124.433  16.030  1.00 75.84      A16S
ATOM  20417  N2  G   A 976     236.729 123.637  15.214  1.00 75.84      A16S
ATOM  20418  N1  G   A 976     236.581 125.676  16.254  1.00 75.84      A16S
ATOM  20419  C6  G   A 976     236.029 126.648  17.088  1.00 75.84      A16S
ATOM  20420  O6  G   A 976     236.610 127.745  17.248  1.00 75.84      A16S
ATOM  20421  C5  G   A 976     234.814 126.197  17.670  1.00 75.84      A16S
ATOM  20422  N7  G   A 976     233.950 126.837  18.544  1.00 75.84      A16S
ATOM  20423  C8  G   A 976     233.003 125.968  18.761  1.00 75.84      A16S
ATOM  20424  C2* G   A 976     231.943 123.150  19.509  1.00 52.16      A16S
ATOM  20425  O2* G   A 976     233.004 122.399  20.064  1.00 52.16      A16S
ATOM  20426  C3* G   A 976     230.687 122.317  19.244  1.00 52.16      A16S
ATOM  20427  O3* G   A 976     231.073 120.995  18.958  1.00 52.16      A16S
ATOM  20428  P   A   A 977     230.270 119.791  19.619  1.00 45.62      A16S
ATOM  20429  O1P A   A 977     228.866 119.903  19.150  1.00 86.13      A16S
ATOM  20430  O2P A   A 977     230.561 119.760  21.074  1.00 86.13      A16S
ATOM  20431  O5* A   A 977     230.906 118.504  18.953  1.00 45.62      A16S
ATOM  20432  C5* A   A 977     232.264 118.186  19.186  1.00 45.62      A16S
ATOM  20433  C4* A   A 977     232.346 117.077  20.177  1.00 45.62      A16S
ATOM  20434  O4* A   A 977     231.490 116.003  19.744  1.00 45.62      A16S
ATOM  20435  C1* A   A 977     232.084 114.766  20.069  1.00 45.62      A16S
ATOM  20436  N9  A   A 977     232.124 113.937  18.858  1.00 86.13      A16S
ATOM  20437  C4  A   A 977     233.192 113.679  18.025  1.00 86.13      A16S
ATOM  20438  N3  A   A 977     234.446 114.151  18.127  1.00 86.13      A16S
ATOM  20439  C2  A   A 977     235.214 113.664  17.152  1.00 86.13      A16S
ATOM  20440  N1  A   A 977     234.900 112.826  16.162  1.00 86.13      A16S
ATOM  20441  C6  A   A 977     233.634 112.374  16.081  1.00 86.13      A16S
ATOM  20442  N6  A   A 977     233.323 111.542  15.091  1.00 86.13      A16S
ATOM  20443  C5  A   A 977     232.715 112.813  17.057  1.00 86.13      A16S
ATOM  20444  N7  A   A 977     231.369 112.542  17.261  1.00 86.13      A16S
ATOM  20445  C8  A   A 977     231.067 113.235  18.332  1.00 86.13      A16S
ATOM  20446  C2* A   A 977     233.415 115.048  20.778  1.00 45.62      A16S
ATOM  20447  O2* A   A 977     233.246 114.940  22.179  1.00 45.62      A16S
ATOM  20448  C3* A   A 977     233.723 116.472  20.326  1.00 45.62      A16S
ATOM  20449  O3* A   A 977     234.438 117.236  21.292  1.00 45.62      A16S
ATOM  20450  P   A   A 978     236.026 117.072  21.438  1.00 42.00      A16S
ATOM  20451  O1P A   A 978     236.487 118.194  22.289  1.00 55.00      A16S
ATOM  20452  O2P A   A 978     236.591 116.903  20.081  1.00 55.00      A16S
ATOM  20453  O5* A   A 978     236.211 115.727  22.263  1.00 42.00      A16S
ATOM  20454  C5* A   A 978     236.251 114.474  21.599  1.00 42.00      A16S
ATOM  20455  C4* A   A 978     237.173 113.550  22.326  1.00 42.00      A16S
ATOM  20456  O4* A   A 978     238.463 114.180  22.382  1.00 42.00      A16S
ATOM  20457  C1* A   A 978     239.090 113.878  23.611  1.00 42.00      A16S
ATOM  20458  N9  A   A 978     239.536 115.137  24.202  1.00 55.00      A16S
ATOM  20459  C4  A   A 978     240.691 115.326  24.916  1.00 55.00      A16S
ATOM  20460  N3  A   A 978     241.603 114.398  25.241  1.00 55.00      A16S
ATOM  20461  C2  A   A 978     242.607 114.952  25.918  1.00 55.00      A16S
ATOM  20462  N1  A   A 978     242.789 116.231  26.275  1.00 55.00      A16S
ATOM  20463  C6  A   A 978     241.852 117.136  25.927  1.00 55.00      A16S
ATOM  20464  N6  A   A 978     242.034 118.409  26.276  1.00 55.00      A16S
ATOM  20465  C5  A   A 978     240.736 116.677  25.211  1.00 55.00      A16S
ATOM  20466  N7  A   A 978     239.618 117.328  24.706  1.00 55.00      A16S
ATOM  20467  C8  A   A 978     238.934 116.373  24.126  1.00 55.00      A16S
ATOM  20468  C2* A   A 978     238.147 113.000  24.437  1.00 42.00      A16S
ATOM  20469  O2* A   A 978     238.583 111.664  24.304  1.00 42.00      A16S
ATOM  20470  C3* A   A 978     236.796 113.262  23.767  1.00 42.00      A16S
ATOM  20471  O3* A   A 978     235.964 112.106  23.780  1.00 42.00      A16S
ATOM  20472  P   C   A 979     234.590 112.132  24.580  1.00100.80      A16S
ATOM  20473  O1P C   A 979     233.936 110.797  24.456  1.00 46.76      A16S
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ATOM  20474  O2P C   A 979     233.865 113.347  24.163  1.00 46.76      A16S
ATOM  20475  O5* C   A 979     235.094 112.292  26.075  1.00100.80      A16S
ATOM  20476  C5* C   A 979     235.838 111.232  26.699  1.00100.80      A16S
ATOM  20477  C4* C   A 979     235.918 111.459  28.182  1.00100.80      A16S
ATOM  20478  O4* C   A 979     236.923 112.467  28.458  1.00100.80      A16S
ATOM  20479  C1* C   A 979     236.499 113.280  29.539  1.00100.80      A16S
ATOM  20480  N1  C   A 979     236.368 114.674  29.060  1.00 46.76      A16S
ATOM  20481  C6  C   A 979     236.529 114.988  27.739  1.00 46.76      A16S
ATOM  20482  C2  C   A 979     236.064 115.680  29.986  1.00 46.76      A16S
ATOM  20483  O2  C   A 979     235.960 115.375  31.190  1.00 46.76      A16S
ATOM  20484  N3  C   A 979     235.903 116.961  29.551  1.00 46.76      A16S
ATOM  20485  C4  C   A 979     236.061 117.250  28.258  1.00 46.76      A16S
ATOM  20486  N4  C   A 979     235.901 118.521  27.872  1.00 46.76      A16S
ATOM  20487  C5  C   A 979     236.390 116.250  27.302  1.00 46.76      A16S
ATOM  20488  C2* C   A 979     235.175 112.709  30.056  1.00100.80      A16S
ATOM  20489  O2* C   A 979     235.425 111.846  31.152  1.00100.80      A16S
ATOM  20490  C3* C   A 979     234.644 112.000  28.812  1.00100.80      A16S
ATOM  20491  O3* C   A 979     233.641 111.004  29.052  1.00100.80      A16S
ATOM  20492  P   C   A 980     232.128 111.259  28.533  1.00 61.00      A16S
ATOM  20493  O1P C   A 980     231.220 110.503  29.444  1.00 80.84      A16S
ATOM  20494  O2P C   A 980     232.072 111.003  27.060  1.00 80.84      A16S
ATOM  20495  O5* C   A 980     231.890 112.811  28.813  1.00 61.00      A16S
ATOM  20496  C5* C   A 980     231.975 113.309  30.159  1.00 61.00      A16S
ATOM  20497  C4* C   A 980     231.694 114.790  30.217  1.00 61.00      A16S
ATOM  20498  O4* C   A 980     232.732 115.529  29.531  1.00 61.00      A16S
ATOM  20499  C1* C   A 980     232.204 116.771  29.101  1.00 61.00      A16S
ATOM  20500  N1  C   A 980     232.602 117.007  27.702  1.00 80.84      A16S
ATOM  20501  C6  C   A 980     232.993 115.967  26.908  1.00 80.84      A16S
ATOM  20502  C2  C   A 980     232.578 118.325  27.187  1.00 80.84      A16S
ATOM  20503  O2  C   A 980     232.209 119.262  27.911  1.00 80.84      A16S
ATOM  20504  N3  C   A 980     232.955 118.538  25.910  1.00 80.84      A16S
ATOM  20505  C4  C   A 980     233.338 117.510  25.148  1.00 80.84      A16S
ATOM  20506  N4  C   A 980     233.703 117.766  23.891  1.00 80.84      A16S
ATOM  20507  C5  C   A 980     233.365 116.171  25.640  1.00 80.84      A16S
ATOM  20508  C2* C   A 980     230.692 116.768  29.364  1.00 61.00      A16S
ATOM  20509  O2* C   A 980     230.421 117.559  30.501  1.00 61.00      A16S
ATOM  20510  C3* C   A 980     230.396 115.286  29.600  1.00 61.00      A16S
ATOM  20511  O3* C   A 980     229.302 115.126  30.504  1.00 61.00      A16S
ATOM  20512  P   U   A 981     227.916 114.482  29.991  1.00 68.01      A16S
ATOM  20513  O1P U   A 981     226.863 114.756  31.007  1.00 69.92      A16S
ATOM  20514  O2P U   A 981     228.174 113.081  29.576  1.00 69.92      A16S
ATOM  20515  O5* U   A 981     227.545 115.352  28.713  1.00 68.01      A16S
ATOM  20516  C5* U   A 981     227.229 116.745  28.844  1.00 68.01      A16S
ATOM  20517  C4* U   A 981     227.456 117.449  27.534  1.00 68.01      A16S
ATOM  20518  O4* U   A 981     228.857 117.325  27.172  1.00 68.01      A16S
ATOM  20519  C1* U   A 981     228.985 117.151  25.771  1.00 68.01      A16S
ATOM  20520  N1  U   A 981     229.606 115.838  25.506  1.00 69.92      A16S
ATOM  20521  C6  U   A 981     229.454 114.773  26.372  1.00 69.92      A16S
ATOM  20522  C2  U   A 981     230.355 115.701  24.349  1.00 69.92      A16S
ATOM  20523  O2  U   A 981     230.512 116.611  23.551  1.00 69.92      A16S
ATOM  20524  N3  U   A 981     230.914 114.456  24.157  1.00 69.92      A16S
ATOM  20525  C4  U   A 981     230.803 113.350  24.982  1.00 69.92      A16S
ATOM  20526  O4  U   A 981     231.354 112.286  24.662  1.00 69.92      A16S
ATOM  20527  C5  U   A 981     230.012 113.570  26.156  1.00 69.92      A16S
ATOM  20528  C2* U   A 981     227.589 117.285  25.170  1.00 68.01      A16S
ATOM  20529  O2* U   A 981     227.424 118.634  24.768  1.00 68.01      A16S
ATOM  20530  C3* U   A 981     226.711 116.864  26.348  1.00 68.01      A16S
ATOM  20531  O3* U   A 981     225.367 117.323  26.280  1.00 68.01      A16S
ATOM  20532  P   U   A 982     224.217 116.327  25.758  1.00 56.23      A16S
ATOM  20533  O1P U   A 982     224.492 116.054  24.327  1.00 65.41      A16S
ATOM  20534  O2P U   A 982     222.891 116.876  26.159  1.00 65.41      A16S
ATOM  20535  O5* U   A 982     224.473 114.970  26.551  1.00 56.23      A16S
ATOM  20536  C5* U   A 982     223.455 113.957  26.613  1.00 56.23      A16S
ATOM  20537  C4* U   A 982     224.057 112.587  26.413  1.00 56.23      A16S
ATOM  20538  O4* U   A 982     224.689 112.527  25.109  1.00 56.23      A16S
ATOM  20539  C1* U   A 982     226.014 112.052  25.247  1.00 56.23      A16S
ATOM  20540  N1  U   A 982     226.860 112.658  24.206  1.00 65.41      A16S
ATOM  20541  C6  U   A 982     226.669 113.955  23.787  1.00 65.41      A16S
ATOM  20542  C2  U   A 982     227.852 111.866  23.642  1.00 65.41      A16S
ATOM  20543  O2  U   A 982     228.092 110.728  24.013  1.00 65.41      A16S
ATOM  20544  N3  U   A 982     228.558 112.460  22.629  1.00 65.41      A16S
ATOM  20545  C4  U   A 982     228.393 113.739  22.139  1.00 65.41      A16S
ATOM  20546  O4  U   A 982     229.024 114.089  21.137  1.00 65.41      A16S
ATOM  20547  C5  U   A 982     227.383 114.507  22.803  1.00 65.41      A16S
ATOM  20548  C2* U   A 982     226.425 112.358  26.683  1.00 56.23      A16S
ATOM  20549  O2* U   A 982     227.427 111.444  27.095  1.00 56.23      A16S
ATOM  20550  C3* U   A 982     225.110 112.139  27.421  1.00 56.23      A16S
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ATOM  20551  O3* U   A 982     224.987 110.743  27.614  1.00 56.23      A16S
ATOM  20552  P    A   A 983     223.953 110.181  28.692  1.00 67.92      A16S
ATOM  20553  O1P A   A 983     223.742 111.246  29.713  1.00 48.57      A16S
ATOM  20554  O2P A   A 983     224.416 108.823  29.117  1.00 48.57      A16S
ATOM  20555  O5* A   A 983     222.613 110.002  27.853  1.00 67.92      A16S
ATOM  20556  C5* A   A 983     222.454 108.872  26.979  1.00 67.92      A16S
ATOM  20557  C4* A   A 983     221.261 109.057  26.080  1.00 67.92      A16S
ATOM  20558  O4* A   A 983     221.325 110.374  25.499  1.00 67.92      A16S
ATOM  20559  C1* A   A 983     220.940 110.315  24.151  1.00 67.92      A16S
ATOM  20560  N9   A   A 983     222.044 110.847  23.360  1.00 48.57      A16S
ATOM  20561  C4   A   A 983     223.236 110.224  23.089  1.00 48.57      A16S
ATOM  20562  N3   A   A 983     223.625 109.004  23.493  1.00 48.57      A16S
ATOM  20563  C2   A   A 983     224.836 108.732  23.039  1.00 48.57      A16S
ATOM  20564  N1   A   A 983     225.645 109.485  22.283  1.00 48.57      A16S
ATOM  20565  C6   A   A 983     225.220 110.705  21.894  1.00 48.57      A16S
ATOM  20566  N6   A   A 983     226.021 111.454  21.137  1.00 48.57      A16S
ATOM  20567  C5   A   A 983     223.954 111.111  22.310  1.00 48.57      A16S
ATOM  20568  N7   A   A 983     223.233 112.274  22.094  1.00 48.57      A16S
ATOM  20569  C8   A   A 983     222.111 112.069  22.737  1.00 48.57      A16S
ATOM  20570  C2* A   A 983     220.546 108.870  23.821  1.00 67.92      A16S
ATOM  20571  O2* A   A 983     219.148 108.715  23.875  1.00 67.92      A16S
ATOM  20572  C3* A   A 983     221.235 108.080  24.919  1.00 67.92      A16S
ATOM  20573  O3* A   A 983     220.428 106.955  25.240  1.00 67.92      A16S
ATOM  20574  P    C   A 984     221.040 105.739  26.092  1.00 56.50      A16S
ATOM  20575  O1P C   A 984     219.931 104.797  26.409  1.00 71.27      A16S
ATOM  20576  O2P C   A 984     221.844 106.311  27.197  1.00 71.27      A16S
ATOM  20577  O5* C   A 984     222.043 105.007  25.096  1.00 56.50      A16S
ATOM  20578  C5* C   A 984     221.616 104.587  23.794  1.00 56.50      A16S
ATOM  20579  C4* C   A 984     222.746 103.901  23.071  1.00 56.50      A16S
ATOM  20580  O4* C   A 984     223.783 104.845  22.703  1.00 56.50      A16S
ATOM  20581  C1* C   A 984     225.048 104.206  22.756  1.00 56.50      A16S
ATOM  20582  N1   C   A 984     225.944 104.973  23.645  1.00 71.27      A16S
ATOM  20583  C6   C   A 984     225.451 105.922  24.495  1.00 71.27      A16S
ATOM  20584  C2   C   A 984     227.325 104.711  23.605  1.00 71.27      A16S
ATOM  20585  O2   C   A 984     227.758 103.848  22.825  1.00 71.27      A16S
ATOM  20586  N3   C   A 984     228.151 105.404  24.413  1.00 71.27      A16S
ATOM  20587  C4   C   A 984     227.657 106.326  25.235  1.00 71.27      A16S
ATOM  20588  N4   C   A 984     228.513 106.982  26.015  1.00 71.27      A16S
ATOM  20589  C5   C   A 984     226.263 106.616  25.297  1.00 71.27      A16S
ATOM  20590  C2* C   A 984     224.825 102.760  23.202  1.00 56.50      A16S
ATOM  20591  O2* C   A 984     224.804 101.916  22.069  1.00 56.50      A16S
ATOM  20592  C3* C   A 984     223.470 102.857  23.886  1.00 56.50      A16S
ATOM  20593  O3* C   A 984     222.766 101.640  23.874  1.00 56.50      A16S
ATOM  20594  P    C   A 985     222.854 100.683  25.149  1.00 72.72      A16S
ATOM  20595  O1P C   A 985     221.994  99.490  24.892  1.00 70.53      A16S
ATOM  20596  O2P C   A 985     222.603 101.546  26.349  1.00 70.53      A16S
ATOM  20597  O5* C   A 985     224.369 100.199  25.138  1.00 72.72      A16S
ATOM  20598  C5* C   A 985     224.839  99.366  24.081  1.00 72.72      A16S
ATOM  20599  C4* C   A 985     226.293  99.069  24.266  1.00 72.72      A16S
ATOM  20600  O4* C   A 985     227.053 100.290  24.148  1.00 72.72      A16S
ATOM  20601  C1* C   A 985     228.199 100.212  24.974  1.00 72.72      A16S
ATOM  20602  N1   C   A 985     228.220 101.372  25.878  1.00 70.53      A16S
ATOM  20603  C6   C   A 985     227.159 102.230  25.945  1.00 70.53      A16S
ATOM  20604  C2   C   A 985     229.353 101.588  26.676  1.00 70.53      A16S
ATOM  20605  O2   C   A 985     230.306 100.805  26.591  1.00 70.53      A16S
ATOM  20606  N3   C   A 985     229.380 102.645  27.510  1.00 70.53      A16S
ATOM  20607  C4   C   A 985     228.340 103.477  27.562  1.00 70.53      A16S
ATOM  20608  N4   C   A 985     228.410 104.512  28.390  1.00 70.53      A16S
ATOM  20609  C5   C   A 985     227.179 103.286  26.763  1.00 70.53      A16S
ATOM  20610  C2* C   A 985     228.158  98.875  25.711  1.00 72.72      A16S
ATOM  20611  O2* C   A 985     228.976  97.955  25.024  1.00 72.72      A16S
ATOM  20612  C3* C   A 985     226.683  98.516  25.620  1.00 72.72      A16S
ATOM  20613  O3* C   A 985     226.480  97.115  25.681  1.00 72.72      A16S
ATOM  20614  P    A   A 986     226.297  96.403  27.109  1.00 76.64      A16S
ATOM  20615  O1P A   A 986     225.944  94.977  26.852  1.00 49.64      A16S
ATOM  20616  O2P A   A 986     225.387  97.257  27.927  1.00 49.64      A16S
ATOM  20617  O5* A   A 986     227.753  96.457  27.758  1.00 76.64      A16S
ATOM  20618  C5* A   A 986     228.803  95.606  27.268  1.00 76.64      A16S
ATOM  20619  C4* A   A 986     230.079  95.824  28.048  1.00 76.64      A16S
ATOM  20620  O4* A   A 986     230.583  97.167  27.823  1.00 76.64      A16S
ATOM  20621  C1* A   A 986     231.289  97.604  28.969  1.00 76.64      A16S
ATOM  20622  N9   A   A 986     230.666  98.824  29.473  1.00 49.64      A16S
ATOM  20623  C4   A   A 986     231.312  99.819  30.167  1.00 49.64      A16S
ATOM  20624  N3   A   A 986     232.604  99.848  30.534  1.00 49.64      A16S
ATOM  20625  C2   A   A 986     232.885 100.983  31.168  1.00 49.64      A16S
ATOM  20626  N1   A   A 986     232.082 102.018  31.449  1.00 49.64      A16S
ATOM  20627  C6   A   A 986     230.791 101.958  31.067  1.00 49.64      A16S
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ATOM  20628  N6  A   A 986     230.003 102.990  31.343  1.00 49.64      A16S
ATOM  20629  C5  A   A 986     230.363 100.801  30.394  1.00 49.64      A16S
ATOM  20630  N7  A   A 986     229.131 100.420  29.882  1.00 49.64      A16S
ATOM  20631  C8  A   A 986     229.362  99.239  29.353  1.00 49.64      A16S
ATOM  20632  C2* A   A 986     231.251  96.477  29.992  1.00 76.64      A16S
ATOM  20633  O2* A   A 986     232.424  95.706  29.832  1.00 76.64      A16S
ATOM  20634  C3* A   A 986     230.008  95.714  29.561  1.00 76.64      A16S
ATOM  20635  O3* A   A 986     230.017  94.374  30.030  1.00 76.64      A16S
ATOM  20636  P   G   A 987     229.097  93.977  31.292  1.00 82.59      A16S
ATOM  20637  O1P G   A 987     229.058  92.490  31.335  1.00 64.25      A16S
ATOM  20638  O2P G   A 987     227.825  94.745  31.203  1.00 64.25      A16S
ATOM  20639  O5* G   A 987     229.878  94.538  32.568  1.00 82.59      A16S
ATOM  20640  C5* G   A 987     231.033  93.854  33.092  1.00 82.59      A16S
ATOM  20641  C4* G   A 987     231.936  94.824  33.820  1.00 82.59      A16S
ATOM  20642  O4* G   A 987     232.114  95.994  32.981  1.00 82.59      A16S
ATOM  20643  C1* G   A 987     232.232  97.154  33.783  1.00 82.59      A16S
ATOM  20644  N9  G   A 987     231.087  98.018  33.515  1.00 64.25      A16S
ATOM  20645  C4  G   A 987     230.959  99.327  33.909  1.00 64.25      A16S
ATOM  20646  N3  G   A 987     231.890 100.049  34.568  1.00 64.25      A16S
ATOM  20647  C2  G   A 987     231.460 101.268  34.844  1.00 64.25      A16S
ATOM  20648  N2  G   A 987     232.257 102.122  35.501  1.00 64.25      A16S
ATOM  20649  N1  G   A 987     230.218 101.738  34.500  1.00 64.25      A16S
ATOM  20650  C6  G   A 987     229.247 101.010  33.822  1.00 64.25      A16S
ATOM  20651  O6  G   A 987     228.155 101.525  33.570  1.00 64.25      A16S
ATOM  20652  C5  G   A 987     229.694  99.705  33.515  1.00 64.25      A16S
ATOM  20653  N7  G   A 987     229.050  98.666  32.854  1.00 64.25      A16S
ATOM  20654  C8  G   A 987     229.915  97.689  32.870  1.00 64.25      A16S
ATOM  20655  C2* G   A 987     232.216  96.698  35.237  1.00 82.59      A16S
ATOM  20656  O2* G   A 987     233.547  96.503  35.666  1.00 82.59      A16S
ATOM  20657  C3* G   A 987     231.431  95.400  35.132  1.00 82.59      A16S
ATOM  20658  O3* G   A 987     231.664  94.545  36.240  1.00 82.59      A16S
ATOM  20659  P   G   A 988     230.666  94.598  37.505  1.00 94.41      A16S
ATOM  20660  O1P G   A 988     231.048  93.442  38.364  1.00 80.26      A16S
ATOM  20661  O2P G   A 988     229.256  94.725  37.037  1.00 80.26      A16S
ATOM  20662  O5* G   A 988     231.054  95.960  38.245  1.00 94.41      A16S
ATOM  20663  C5* G   A 988     232.277  96.062  39.002  1.00 94.41      A16S
ATOM  20664  C4* G   A 988     232.338  97.372  39.753  1.00 94.41      A16S
ATOM  20665  O4* G   A 988     232.407  98.468  38.810  1.00 94.41      A16S
ATOM  20666  C1* G   A 988     231.736  99.598  39.339  1.00 94.41      A16S
ATOM  20667  N9  G   A 988     230.607  99.908  38.471  1.00 80.26      A16S
ATOM  20668  C4  G   A 988     229.966 101.120  38.362  1.00 80.26      A16S
ATOM  20669  N3  G   A 988     230.289 102.251  39.024  1.00 80.26      A16S
ATOM  20670  C2  G   A 988     229.476 103.247  38.722  1.00 80.26      A16S
ATOM  20671  N2  G   A 988     229.650 104.449  39.284  1.00 80.26      A16S
ATOM  20672  N1  G   A 988     228.430 103.141  37.843  1.00 80.26      A16S
ATOM  20673  C6  G   A 988     228.080 101.989  37.149  1.00 80.26      A16S
ATOM  20674  O6  G   A 988     227.114 102.003  36.376  1.00 80.26      A16S
ATOM  20675  C5  G   A 988     228.942 100.913  37.462  1.00 80.26      A16S
ATOM  20676  N7  G   A 988     228.946  99.602  37.004  1.00 80.26      A16S
ATOM  20677  C8  G   A 988     229.951  99.045  37.623  1.00 80.26      A16S
ATOM  20678  C2* G   A 988     231.241  99.229  40.736  1.00 94.41      A16S
ATOM  20679  O2* G   A 988     232.167  99.669  41.711  1.00 94.41      A16S
ATOM  20680  C3* G   A 988     231.149  97.713  40.636  1.00 94.41      A16S
ATOM  20681  O3* G   A 988     231.208  97.102  41.914  1.00 94.41      A16S
ATOM  20682  P   C   A 989     229.842  96.737  42.680  1.00105.93      A16S
ATOM  20683  O1P C   A 989     230.239  96.230  44.016  1.00 95.69      A16S
ATOM  20684  O2P C   A 989     229.027  95.878  41.781  1.00 95.69      A16S
ATOM  20685  O5* C   A 989     229.104  98.141  42.874  1.00105.93      A16S
ATOM  20686  C5* C   A 989     229.713  99.174  43.667  1.00105.93      A16S
ATOM  20687  C4* C   A 989     228.981 100.493  43.518  1.00105.93      A16S
ATOM  20688  O4* C   A 989     228.971 100.927  42.131  1.00105.93      A16S
ATOM  20689  C1* C   A 989     227.844 101.766  41.904  1.00105.93      A16S
ATOM  20690  N1  C   A 989     227.006 101.202  40.823  1.00 95.69      A16S
ATOM  20691  C6  C   A 989     226.933  99.851  40.616  1.00 95.69      A16S
ATOM  20692  C2  C   A 989     226.257 102.080  40.019  1.00 95.69      A16S
ATOM  20693  O2  C   A 989     226.349 103.301  40.208  1.00 95.69      A16S
ATOM  20694  N3  C   A 989     225.456 101.573  39.062  1.00 95.69      A16S
ATOM  20695  C4  C   A 989     225.382 100.253  38.883  1.00 95.69      A16S
ATOM  20696  N4  C   A 989     224.564  99.796  37.936  1.00 95.69      A16S
ATOM  20697  C5  C   A 989     226.141  99.341  39.669  1.00 95.69      A16S
ATOM  20698  C2* C   A 989     227.063 101.849  43.215  1.00105.93      A16S
ATOM  20699  O2* C   A 989     227.429 103.036  43.895  1.00105.93      A16S
ATOM  20700  C3* C   A 989     227.520 100.582  43.933  1.00105.93      A16S
ATOM  20701  O3* C   A 989     227.354 100.709  45.340  1.00105.93      A16S
ATOM  20702  P   C   A 990     225.904 100.468  45.996  1.00103.23      A16S
ATOM  20703  O1P C   A 990     226.115 100.439  47.470  1.00 99.20      A16S
ATOM  20704  O2P C   A 990     225.250  99.314  45.325  1.00 99.20      A16S
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ATOM  20705  O5*  C   A 990     225.090 101.786  45.622  1.00103.23      A16S
ATOM  20706  C5*  C   A 990     225.452 103.051  46.196  1.00103.23      A16S
ATOM  20707  C4*  C   A 990     224.365 104.076  45.963  1.00103.23      A16S
ATOM  20708  O4*  C   A 990     224.346 104.489  44.568  1.00103.23      A16S
ATOM  20709  C1*  C   A 990     223.015 104.803  44.179  1.00103.23      A16S
ATOM  20710  N1   C   A 990     222.582 103.855  43.125  1.00 99.20      A16S
ATOM  20711  C6   C   A 990     223.242 102.671  42.925  1.00 99.20      A16S
ATOM  20712  C2   C   A 990     221.457 104.177  42.337  1.00 99.20      A16S
ATOM  20713  O2   C   A 990     220.880 105.268  42.521  1.00 99.20      A16S
ATOM  20714  N3   C   A 990     221.031 103.288  41.400  1.00 99.20      A16S
ATOM  20715  C4   C   A 990     221.677 102.129  41.234  1.00 99.20      A16S
ATOM  20716  N4   C   A 990     221.213 101.274  40.321  1.00 99.20      A16S
ATOM  20717  C5   C   A 990     222.827 101.789  42.002  1.00 99.20      A16S
ATOM  20718  C2*  C   A 990     222.139 104.661  45.422  1.00103.23      A16S
ATOM  20719  O2*  C   A 990     222.024 105.927  46.048  1.00103.23      A16S
ATOM  20720  C3*  C   A 990     222.933 103.643  46.236  1.00103.23      A16S
ATOM  20721  O3*  C   A 990     222.585 103.613  47.618  1.00103.23      A16S
ATOM  20722  P    U   A 991     221.896 102.287  48.233  1.00114.51      A16S
ATOM  20723  O1P  U   A 991     222.826 101.756  49.261  1.00199.23      A16S
ATOM  20724  O2P  U   A 991     221.449 101.400  47.124  1.00199.23      A16S
ATOM  20725  O5*  U   A 991     220.611 102.847  48.989  1.00114.51      A16S
ATOM  20726  C5*  U   A 991     219.272 102.573  48.522  1.00114.51      A16S
ATOM  20727  C4*  U   A 991     218.817 103.672  47.595  1.00114.51      A16S
ATOM  20728  O4*  U   A 991     219.534 103.546  46.346  1.00114.51      A16S
ATOM  20729  C1*  U   A 991     218.692 103.914  45.271  1.00114.51      A16S
ATOM  20730  N1   U   A 991     218.644 102.799  44.308  1.00199.23      A16S
ATOM  20731  C6   U   A 991     219.139 101.553  44.635  1.00199.23      A16S
ATOM  20732  C2   U   A 991     218.108 103.039  43.048  1.00199.23      A16S
ATOM  20733  O2   U   A 991     217.630 104.111  42.718  1.00199.23      A16S
ATOM  20734  N3   U   A 991     218.152 101.970  42.189  1.00199.23      A16S
ATOM  20735  C4   U   A 991     218.657 100.712  42.448  1.00199.23      A16S
ATOM  20736  O4   U   A 991     218.678  99.871  41.550  1.00199.23      A16S
ATOM  20737  C5   U   A 991     219.165 100.534  43.772  1.00199.23      A16S
ATOM  20738  C2*  U   A 991     217.350 104.362  45.855  1.00114.51      A16S
ATOM  20739  O2*  U   A 991     217.382 105.767  45.998  1.00114.51      A16S
ATOM  20740  C3*  U   A 991     217.345 103.670  47.214  1.00114.51      A16S
ATOM  20741  O3*  U   A 991     216.633 104.440  48.187  1.00114.51      A16S
ATOM  20742  P    U   A 992     215.037 104.635  48.067  1.00 90.37      A16S
ATOM  20743  O1P  U   A 992     214.393 103.352  48.464  1.00104.90      A16S
ATOM  20744  O2P  U   A 992     214.722 105.238  46.747  1.00104.90      A16S
ATOM  20745  O5*  U   A 992     214.703 105.716  49.188  1.00 90.37      A16S
ATOM  20746  C5*  U   A 992     215.554 106.855  49.379  1.00 90.37      A16S
ATOM  20747  C4*  U   A 992     214.961 108.063  48.700  1.00 90.37      A16S
ATOM  20748  O4*  U   A 992     213.869 107.647  47.842  1.00 90.37      A16S
ATOM  20749  C1*  U   A 992     212.947 108.709  47.712  1.00 90.37      A16S
ATOM  20750  N1   U   A 992     211.572 108.182  47.622  1.00104.90      A16S
ATOM  20751  C6   U   A 992     211.338 106.829  47.492  1.00104.90      A16S
ATOM  20752  C2   U   A 992     210.508 109.089  47.623  1.00104.90      A16S
ATOM  20753  O2   U   A 992     210.645 110.292  47.793  1.00104.90      A16S
ATOM  20754  N3   U   A 992     209.272 108.529  47.421  1.00104.90      A16S
ATOM  20755  C4   U   A 992     208.983 107.193  47.241  1.00104.90      A16S
ATOM  20756  O4   U   A 992     207.828 106.859  46.967  1.00104.90      A16S
ATOM  20757  C5   U   A 992     210.117 106.320  47.305  1.00104.90      A16S
ATOM  20758  C2*  U   A 992     213.275 109.785  48.753  1.00 90.37      A16S
ATOM  20759  O2*  U   A 992     213.693 110.925  48.043  1.00 90.37      A16S
ATOM  20760  C3*  U   A 992     214.341 109.100  49.620  1.00 90.37      A16S
ATOM  20761  O3*  U   A 992     215.368 109.936  50.197  1.00 90.37      A16S
ATOM  20762  P    G   A 993     216.082 111.099  49.328  1.00182.35      A16S
ATOM  20763  O1P  G   A 993     217.465 111.212  49.852  1.00 86.95      A16S
ATOM  20764  O2P  G   A 993     215.213 112.305  49.317  1.00 86.95      A16S
ATOM  20765  O5*  G   A 993     216.181 110.459  47.869  1.00182.35      A16S
ATOM  20766  C5*  G   A 993     216.569 111.227  46.707  1.00182.35      A16S
ATOM  20767  C4*  G   A 993     217.370 110.351  45.767  1.00182.35      A16S
ATOM  20768  O4*  G   A 993     216.752 109.045  45.703  1.00182.35      A16S
ATOM  20769  C1*  G   A 993     217.026 108.462  44.449  1.00182.35      A16S
ATOM  20770  N9   G   A 993     215.855 107.720  43.979  1.00 86.95      A16S
ATOM  20771  C4   G   A 993     214.536 108.136  43.893  1.00 86.95      A16S
ATOM  20772  N3   G   A 993     214.056 109.369  44.180  1.00 86.95      A16S
ATOM  20773  C2   G   A 993     212.737 109.430  44.027  1.00 86.95      A16S
ATOM  20774  N2   G   A 993     212.084 110.578  44.260  1.00 86.95      A16S
ATOM  20775  N1   G   A 993     211.961 108.366  43.631  1.00 86.95      A16S
ATOM  20776  C6   G   A 993     212.439 107.093  43.337  1.00 86.95      A16S
ATOM  20777  O6   G   A 993     211.662 106.196  43.005  1.00 86.95      A16S
ATOM  20778  C5   G   A 993     213.832 107.015  43.482  1.00 86.95      A16S
ATOM  20779  N7   G   A 993     214.685 105.941  43.278  1.00 86.95      A16S
ATOM  20780  C8   G   A 993     215.868 106.405  43.571  1.00 86.95      A16S
ATOM  20781  C2*  G   A 993     217.709 109.487  43.541  1.00182.35      A16S
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ATOM  20782  O2* G   A 993     219.055 109.088  43.385  1.00182.35      A16S
ATOM  20783  C3* G   A 993     217.497 110.795  44.315  1.00182.35      A16S
ATOM  20784  O3* G   A 993     218.496 111.819  44.140  1.00182.35      A16S
ATOM  20785  P   A   A 994     220.072 111.515  44.387  1.00 91.25      A16S
ATOM  20786  O1P A   A 994     220.672 110.842  43.204  1.00 67.16      A16S
ATOM  20787  O2P A   A 994     220.248 110.902  45.726  1.00 67.16      A16S
ATOM  20788  O5* A   A 994     220.680 112.987  44.446  1.00 91.25      A16S
ATOM  20789  C5* A   A 994     221.952 113.306  43.850  1.00 91.25      A16S
ATOM  20790  C4* A   A 994     221.760 114.219  42.657  1.00 91.25      A16S
ATOM  20791  O4* A   A 994     221.529 113.441  41.459  1.00 91.25      A16S
ATOM  20792  C1* A   A 994     220.638 114.137  40.602  1.00 91.25      A16S
ATOM  20793  N9  A   A 994     219.494 113.264  40.302  1.00 67.16      A16S
ATOM  20794  C4  A   A 994     218.315 113.620  39.686  1.00 67.16      A16S
ATOM  20795  N3  A   A 994     217.960 114.838  39.246  1.00 67.16      A16S
ATOM  20796  C2  A   A 994     216.756 114.798  38.686  1.00 67.16      A16S
ATOM  20797  N1  A   A 994     215.927 113.758  38.526  1.00 67.16      A16S
ATOM  20798  C6  A   A 994     216.315 112.547  38.973  1.00 67.16      A16S
ATOM  20799  N6  A   A 994     215.499 111.503  38.794  1.00 67.16      A16S
ATOM  20800  C5  A   A 994     217.569 112.455  39.595  1.00 67.16      A16S
ATOM  20801  N7  A   A 994     218.254 111.385  40.152  1.00 67.16      A16S
ATOM  20802  C8  A   A 994     219.384 111.913  40.557  1.00 67.16      A16S
ATOM  20803  C2* A   A 994     220.289 115.474  41.264  1.00 91.25      A16S
ATOM  20804  O2* A   A 994     221.102 116.494  40.716  1.00 91.25      A16S
ATOM  20805  C3* A   A 994     220.591 115.188  42.733  1.00 91.25      A16S
ATOM  20806  O3* A   A 994     220.928 116.364  43.462  1.00 91.25      A16S
ATOM  20807  P   C   A 995     219.832 117.055  44.416  1.00121.95      A16S
ATOM  20808  O1P C   A 995     220.533 118.023  45.295  1.00110.04      A16S
ATOM  20809  O2P C   A 995     218.980 115.991  45.026  1.00110.04      A16S
ATOM  20810  O5* C   A 995     218.950 117.924  43.418  1.00121.95      A16S
ATOM  20811  C5* C   A 995     217.760 118.573  43.880  1.00121.95      A16S
ATOM  20812  C4* C   A 995     217.077 119.289  42.745  1.00121.95      A16S
ATOM  20813  O4* C   A 995     217.118 118.466  41.553  1.00121.95      A16S
ATOM  20814  C1* C   A 995     215.836 118.425  40.952  1.00121.95      A16S
ATOM  20815  N1  C   A 995     215.311 117.056  41.150  1.00110.04      A16S
ATOM  20816  C6  C   A 995     216.131 116.064  41.620  1.00110.04      A16S
ATOM  20817  C2  C   A 995     213.966 116.776  40.859  1.00110.04      A16S
ATOM  20818  O2  C   A 995     213.232 117.684  40.431  1.00110.04      A16S
ATOM  20819  N3  C   A 995     213.500 115.520  41.056  1.00110.04      A16S
ATOM  20820  C4  C   A 995     214.312 114.566  41.521  1.00110.04      A16S
ATOM  20821  N4  C   A 995     213.802 113.344  41.708  1.00110.04      A16S
ATOM  20822  C5  C   A 995     215.678 114.820  41.818  1.00110.04      A16S
ATOM  20823  C2* C   A 995     214.991 119.509  41.628  1.00121.95      A16S
ATOM  20824  O2* C   A 995     215.123 120.744  40.951  1.00121.95      A16S
ATOM  20825  C3* C   A 995     215.605 119.535  43.016  1.00121.95      A16S
ATOM  20826  O3* C   A 995     215.383 120.741  43.724  1.00121.95      A16S
ATOM  20827  P   A   A 996     214.367 120.741  44.967  1.00133.05      A16S
ATOM  20828  O1P A   A 996     214.368 122.112  45.541  1.00 89.78      A16S
ATOM  20829  O2P A   A 996     214.694 119.577  45.837  1.00 89.78      A16S
ATOM  20830  O5* A   A 996     212.949 120.468  44.295  1.00133.05      A16S
ATOM  20831  C5* A   A 996     212.367 121.419  43.384  1.00133.05      A16S
ATOM  20832  C4* A   A 996     210.882 121.193  43.288  1.00133.05      A16S
ATOM  20833  O4* A   A 996     210.637 119.905  42.678  1.00133.05      A16S
ATOM  20834  C1* A   A 996     209.517 119.295  43.288  1.00133.05      A16S
ATOM  20835  N9  A   A 996     209.950 118.026  43.861  1.00 89.78      A16S
ATOM  20836  C4  A   A 996     209.186 116.892  43.954  1.00 89.78      A16S
ATOM  20837  N3  A   A 996     207.910 116.738  43.561  1.00 89.78      A16S
ATOM  20838  C2  A   A 996     207.496 115.491  43.785  1.00 89.78      A16S
ATOM  20839  N1  A   A 996     208.163 114.458  44.321  1.00 89.78      A16S
ATOM  20840  C6  A   A 996     209.444 114.649  44.712  1.00 89.78      A16S
ATOM  20841  N6  A   A 996     210.106 113.620  45.248  1.00 89.78      A16S
ATOM  20842  C5  A   A 996     210.001 115.934  44.525  1.00 89.78      A16S
ATOM  20843  N7  A   A 996     211.254 116.460  44.803  1.00 89.78      A16S
ATOM  20844  C8  A   A 996     211.170 117.702  44.396  1.00 89.78      A16S
ATOM  20845  C2* A   A 996     208.956 120.257  44.334  1.00133.05      A16S
ATOM  20846  O2* A   A 996     207.864 120.967  43.788  1.00133.05      A16S
ATOM  20847  C3* A   A 996     210.166 121.133  44.626  1.00133.05      A16S
ATOM  20848  O3* A   A 996     209.797 122.431  45.066  1.00133.05      A16S
ATOM  20849  P   U   A 997     209.713 122.743  46.637  1.00171.13      A16S
ATOM  20850  O1P U   A 997     209.692 124.221  46.752  1.00105.38      A16S
ATOM  20851  O2P U   A 997     210.756 121.963  47.356  1.00105.38      A16S
ATOM  20852  O5* U   A 997     208.296 122.165  47.074  1.00171.13      A16S
ATOM  20853  C5* U   A 997     207.110 122.980  47.034  1.00171.13      A16S
ATOM  20854  C4* U   A 997     205.935 122.200  47.567  1.00171.13      A16S
ATOM  20855  O4* U   A 997     205.763 121.023  46.736  1.00171.13      A16S
ATOM  20856  C1* U   A 997     205.377 119.921  47.537  1.00171.13      A16S
ATOM  20857  N1  U   A 997     206.439 118.907  47.476  1.00105.38      A16S
ATOM  20858  C6  U   A 997     207.773 119.266  47.498  1.00105.38      A16S
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ATOM  20859  C2  U   A 997     206.062 117.577  47.436  1.00105.38      A16S
ATOM  20860  O2  U   A 997     204.902 117.213  47.357  1.00105.38      A16S
ATOM  20861  N3  U   A 997     207.099 116.684  47.486  1.00105.38      A16S
ATOM  20862  C4  U   A 997     208.446 116.974  47.550  1.00105.38      A16S
ATOM  20863  O4  U   A 997     209.252 116.053  47.693  1.00105.38      A16S
ATOM  20864  C5  U   A 997     208.760 118.372  47.535  1.00105.38      A16S
ATOM  20865  C2* U   A 997     205.204 120.422  48.972  1.00171.13      A16S
ATOM  20866  O2* U   A 997     203.851 120.727  49.245  1.00171.13      A16S
ATOM  20867  C3* U   A 997     206.109 121.645  48.975  1.00171.13      A16S
ATOM  20868  O3* U   A 997     205.755 122.565  49.997  1.00171.13      A16S
ATOM  20869  P   G   A 998     206.272 122.313  51.498  1.00166.01      A16S
ATOM  20870  O1P G   A 998     205.883 123.512  52.284  1.00110.76      A16S
ATOM  20871  O2P G   A 998     207.698 121.898  51.450  1.00110.76      A16S
ATOM  20872  O5* G   A 998     205.413 121.068  52.002  1.00166.01      A16S
ATOM  20873  C5* G   A 998     204.015 121.218  52.303  1.00166.01      A16S
ATOM  20874  C4* G   A 998     203.394 119.884  52.652  1.00166.01      A16S
ATOM  20875  O4* G   A 998     203.523 118.979  51.521  1.00166.01      A16S
ATOM  20876  C1* G   A 998     203.625 117.642  51.990  1.00166.01      A16S
ATOM  20877  N9  G   A 998     204.929 117.102  51.618  1.00110.76      A16S
ATOM  20878  C4  G   A 998     205.243 115.768  51.480  1.00110.76      A16S
ATOM  20879  N3  G   A 998     204.382 114.733  51.606  1.00110.76      A16S
ATOM  20880  C2  G   A 998     204.984 113.565  51.444  1.00110.76      A16S
ATOM  20881  N2  G   A 998     204.275 112.429  51.531  1.00110.76      A16S
ATOM  20882  N1  G   A 998     206.325 113.424  51.185  1.00110.76      A16S
ATOM  20883  C6  G   A 998     207.231 114.472  51.048  1.00110.76      A16S
ATOM  20884  O6  G   A 998     208.421 114.229  50.812  1.00110.76      A16S
ATOM  20885  C5  G   A 998     206.596 115.736  51.215  1.00110.76      A16S
ATOM  20886  N7  G   A 998     207.118 117.023  51.158  1.00110.76      A16S
ATOM  20887  C8  G   A 998     206.093 117.799  51.392  1.00110.76      A16S
ATOM  20888  C2* G   A 998     203.530 117.681  53.514  1.00166.01      A16S
ATOM  20889  O2* G   A 998     202.201 117.423  53.928  1.00166.01      A16S
ATOM  20890  C3* G   A 998     203.996 119.100  53.810  1.00166.01      A16S
ATOM  20891  O3* G   A 998     203.583 119.531  55.102  1.00166.01      A16S
ATOM  20892  P   C   A 999     204.371 118.992  56.404  1.00201.30      A16S
ATOM  20893  O1P C   A 999     203.954 119.835  57.557  1.00154.84      A16S
ATOM  20894  O2P C   A 999     205.818 118.865  56.075  1.00154.84      A16S
ATOM  20895  O5* C   A 999     203.787 117.523  56.616  1.00201.30      A16S
ATOM  20896  C5* C   A 999     202.386 117.331  56.882  1.00201.30      A16S
ATOM  20897  C4* C   A 999     202.067 115.868  57.098  1.00201.30      A16S
ATOM  20898  O4* C   A 999     202.209 115.122  55.859  1.00201.30      A16S
ATOM  20899  C1* C   A 999     202.536 113.773  56.159  1.00201.30      A16S
ATOM  20900  N1  C   A 999     203.795 113.407  55.484  1.00154.84      A16S
ATOM  20901  C6  C   A 999     204.847 114.280  55.428  1.00154.84      A16S
ATOM  20902  C2  C   A 999     203.908 112.124  54.917  1.00154.84      A16S
ATOM  20903  O2  C   A 999     202.933 111.354  54.958  1.00154.84      A16S
ATOM  20904  N3  C   A 999     205.077 111.759  54.340  1.00154.84      A16S
ATOM  20905  C4  C   A 999     206.103 112.615  54.308  1.00154.84      A16S
ATOM  20906  N4  C   A 999     207.241 112.205  53.740  1.00154.84      A16S
ATOM  20907  C5  C   A 999     206.008 113.929  54.859  1.00154.84      A16S
ATOM  20908  C2* C   A 999     202.658 113.647  57.679  1.00201.30      A16S
ATOM  20909  O2* C   A 999     201.455 113.121  58.207  1.00201.30      A16S
ATOM  20910  C3* C   A 999     202.912 115.092  58.095  1.00201.30      A16S
ATOM  20911  O3* C   A 999     202.540 115.325  59.449  1.00201.30      A16S
ATOM  20912  P   U   A1000    203.584 114.983  60.626  1.00201.30      A16S
ATOM  20913  O1P U   A1000    202.966 115.412  61.905  1.00157.24      A16S
ATOM  20914  O2P U   A1000    204.922 115.508  60.248  1.00157.24      A16S
ATOM  20915  O5* U   A1000    203.660 113.391  60.616  1.00201.30      A16S
ATOM  20916  C5* U   A1000    202.487 112.592  60.877  1.00201.30      A16S
ATOM  20917  C4* U   A1000    202.844 111.122  60.923  1.00201.30      A16S
ATOM  20918  O4* U   A1000    203.240 110.664  59.604  1.00201.30      A16S
ATOM  20919  C1* U   A1000    204.262 109.686  59.724  1.00201.30      A16S
ATOM  20920  N1  U   A1000    205.461 110.167  59.014  1.00157.24      A16S
ATOM  20921  C6  U   A1000    205.697 111.518  58.831  1.00157.24      A16S
ATOM  20922  C2  U   A1000    206.359 109.220  58.534  1.00157.24      A16S
ATOM  20923  O2  U   A1000    206.198 108.014  58.676  1.00157.24      A16S
ATOM  20924  N3  U   A1000    207.455 109.741  57.882  1.00157.24      A16S
ATOM  20925  C4  U   A1000    207.744 111.079  57.667  1.00157.24      A16S
ATOM  20926  O4  U   A1000    208.771 111.389  57.058  1.00157.24      A16S
ATOM  20927  C5  U   A1000    206.777 111.990  58.193  1.00157.24      A16S
ATOM  20928  C2* U   A1000    204.506 109.445  61.217  1.00201.30      A16S
ATOM  20929  O2* U   A1000    203.773 108.307  61.634  1.00201.30      A16S
ATOM  20930  C3* U   A1000    204.008 110.752  61.830  1.00201.30      A16S
ATOM  20931  O3* U   A1000    203.595 110.617  63.189  1.00201.30      A16S
ATOM  20932  P   A   A1001    204.496 111.250  64.369  1.00201.30      A16S
ATOM  20933  O1P A   A1001    203.668 111.235  65.601  1.00201.30      A16S
ATOM  20934  O2P A   A1001    205.090 112.536  63.901  1.00201.30      A16S
ATOM  20935  O5* A   A1001    205.682 110.200  64.557  1.00201.30      A16S
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ATOM  20936  C5* A   A1001     205.428 108.775  64.568 1.00201.30      A16S
ATOM  20937  C4* A   A1001     206.623 108.027  64.018 1.00201.30      A16S
ATOM  20938  O4* A   A1001     206.894 108.522  62.678 1.00201.30      A16S
ATOM  20939  C1* A   A1001     208.294 108.615  62.468 1.00201.30      A16S
ATOM  20940  N9  A   A1001     208.627 110.029  62.256 1.00201.30      A16S
ATOM  20941  C4  A   A1001     209.405 110.555  61.250 1.00201.30      A16S
ATOM  20942  N3  A   A1001     210.027 109.888  60.261 1.00201.30      A16S
ATOM  20943  C2  A   A1001     210.685 110.732  59.468 1.00201.30      A16S
ATOM  20944  N1  A   A1001     210.785 112.064  59.543 1.00201.30      A16S
ATOM  20945  C6  A   A1001     210.150 112.704  60.549 1.00201.30      A16S
ATOM  20946  N6  A   A1001     210.250 114.033  60.626 1.00201.30      A16S
ATOM  20947  C5  A   A1001     209.418 111.925  61.460 1.00201.30      A16S
ATOM  20948  N7  A   A1001     208.668 112.259  62.579 1.00201.30      A16S
ATOM  20949  C8  A   A1001     208.222 111.106  63.014 1.00201.30      A16S
ATOM  20950  C2* A   A1001     208.981 108.007  63.693 1.00201.30      A16S
ATOM  20951  O2* A   A1001     209.238 106.638  63.446 1.00201.30      A16S
ATOM  20952  C3* A   A1001     207.930 108.223  64.777 1.00201.30      A16S
ATOM  20953  O3* A   A1001     208.066 107.312  65.871 1.00201.30      A16S
ATOM  20954  P   G   A1002     209.163 107.596  67.020 1.00200.94      A16S
ATOM  20955  O1P G   A1002     208.709 106.894  68.248 1.00201.18      A16S
ATOM  20956  O2P G   A1002     209.449 109.053  67.077 1.00201.18      A16S
ATOM  20957  O5* G   A1002     210.473 106.862  66.487 1.00200.94      A16S
ATOM  20958  C5* G   A1002     210.616 105.431  66.596 1.00200.94      A16S
ATOM  20959  C4* G   A1002     211.945 104.987  66.027 1.00200.94      A16S
ATOM  20960  O4* G   A1002     211.941 105.115  64.582 1.00200.94      A16S
ATOM  20961  C1* G   A1002     213.237 105.477  64.130 1.00200.94      A16S
ATOM  20962  N9  G   A1002     213.133 106.715  63.353 1.00201.18      A16S
ATOM  20963  C4  G   A1002     214.170 107.429  62.786 1.00201.18      A16S
ATOM  20964  N3  G   A1002     215.484 107.112  62.846 1.00201.18      A16S
ATOM  20965  C2  G   A1002     216.236 107.998  62.210 1.00201.18      A16S
ATOM  20966  N2  G   A1002     217.568 107.840  62.170 1.00201.18      A16S
ATOM  20967  N1  G   A1002     215.739 109.105  61.568 1.00201.18      A16S
ATOM  20968  C6  G   A1002     214.394 109.450  61.491 1.00201.18      A16S
ATOM  20969  O6  G   A1002     214.054 110.473  60.884 1.00201.18      A16S
ATOM  20970  C5  G   A1002     213.574 108.509  62.168 1.00201.18      A16S
ATOM  20971  N7  G   A1002     212.197 108.475  62.334 1.00201.18      A16S
ATOM  20972  C8  G   A1002     211.983 107.398  63.039 1.00201.18      A16S
ATOM  20973  C2* G   A1002     214.154 105.567  65.357 1.00200.94      A16S
ATOM  20974  O2* G   A1002     214.884 104.362  65.488 1.00200.94      A16S
ATOM  20975  C3* G   A1002     213.154 105.783  66.490 1.00200.94      A16S
ATOM  20976  O3* G   A1002     213.637 105.303  67.741 1.00200.94      A16S
ATOM  20977  P   G   A1003     213.795 106.318  68.978 1.00201.30      A16S
ATOM  20978  O1P G   A1003     214.437 105.560  70.084 1.00201.30      A16S
ATOM  20979  O2P G   A1003     212.478 106.974  69.206 1.00201.30      A16S
ATOM  20980  O5* G   A1003     214.827 107.422  68.460 1.00201.30      A16S
ATOM  20981  C5* G   A1003     216.097 107.044  67.881 1.00201.30      A16S
ATOM  20982  C4* G   A1003     216.592 108.116  66.928 1.00201.30      A16S
ATOM  20983  O4* G   A1003     215.527 108.438  65.992 1.00201.30      A16S
ATOM  20984  C1* G   A1003     215.591 109.812  65.642 1.00201.30      A16S
ATOM  20985  N9  G   A1003     214.332 110.454  66.019 1.00201.30      A16S
ATOM  20986  C4  G   A1003     213.537 111.239  65.211 1.00201.30      A16S
ATOM  20987  N3  G   A1003     213.775 111.546  63.917 1.00201.30      A16S
ATOM  20988  C2  G   A1003     212.831 112.326  63.410 1.00201.30      A16S
ATOM  20989  N2  G   A1003     212.914 112.732  62.135 1.00201.30      A16S
ATOM  20990  N1  G   A1003     211.738 112.767  64.116 1.00201.30      A16S
ATOM  20991  C6  G   A1003     211.469 112.465  65.448 1.00201.30      A16S
ATOM  20992  O6  G   A1003     210.451 112.920  65.990 1.00201.30      A16S
ATOM  20993  C5  G   A1003     212.477 111.628  66.007 1.00201.30      A16S
ATOM  20994  N7  G   A1003     212.600 111.098  67.285 1.00201.30      A16S
ATOM  20995  C8  G   A1003     213.709 110.409  67.246 1.00201.30      A16S
ATOM  20996  C2* G   A1003     216.802 110.413  66.354 1.00201.30      A16S
ATOM  20997  O2* G   A1003     217.904 110.405  65.468 1.00201.30      A16S
ATOM  20998  C3* G   A1003     216.981 109.461  67.531 1.00201.30      A16S
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ATOM  21000  P   G   A1003A    218.673 110.285  69.372 1.00201.30      A16S
ATOM  21001  O1P G   A1003A    219.488 109.364  70.209 1.00162.35      A16S
ATOM  21002  O2P G   A1003A    217.420 110.865  69.928 1.00162.35      A16S
ATOM  21003  O5* G   A1003A    219.592 111.503  68.899 1.00201.30      A16S
ATOM  21004  C5* G   A1003A    221.034 111.453  69.020 1.00201.30      A16S
ATOM  21005  C4* G   A1003A    221.680 112.207  67.880 1.00201.30      A16S
ATOM  21006  O4* G   A1003A    221.067 111.736  66.649 1.00201.30      A16S
ATOM  21007  C1* G   A1003A    220.924 112.811  65.738 1.00201.30      A16S
ATOM  21008  N9  G   A1003A    219.499 112.999  65.465 1.00162.35      A16S
ATOM  21009  C4  G   A1003A    218.910 113.121  64.228 1.00162.35      A16S
ATOM  21010  N3  G   A1003A    219.548 113.096  63.042 1.00162.35      A16S
ATOM  21011  C2  G   A1003A    218.714 113.256  62.030 1.00162.35      A16S
ATOM  21012  N2  G   A1003A    219.188 113.280  60.779 1.00162.35      A16S
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ATOM  21013  N1  G   A1003A    217.358 113.414  62.171  1.00162.35      A16S
ATOM  21014  C6  G   A1003A    216.680 113.441  63.383  1.00162.35      A16S
ATOM  21015  O6  G   A1003A    215.458 113.592  63.398  1.00162.35      A16S
ATOM  21016  C5  G   A1003A    217.563 113.282  64.477  1.00162.35      A16S
ATOM  21017  N7  G   A1003A    217.308 113.263  65.841  1.00162.35      A16S
ATOM  21018  C8  G   A1003A    218.482 113.093  66.387  1.00162.35      A16S
ATOM  21019  C2* G   A1003A    221.576 114.042  66.368  1.00201.30      A16S
ATOM  21020  O2* G   A1003A    222.910 114.177  65.913  1.00201.30      A16S
ATOM  21021  C3* G   A1003A    221.481 113.721  67.855  1.00201.30      A16S
ATOM  21022  O3* G   A1003A    222.481 114.430  68.593  1.00201.30      A16S
ATOM  21023  P   A   A1004     222.191 115.932  69.124  1.00197.87      A16S
ATOM  21024  O1P A   A1004     223.414 116.732  68.852  1.00201.30      A16S
ATOM  21025  O2P A   A1004     221.674 115.836  70.513  1.00201.30      A16S
ATOM  21026  O5* A   A1004     221.012 116.493  68.203  1.00197.87      A16S
ATOM  21027  C5* A   A1004     221.253 117.496  67.186  1.00197.87      A16S
ATOM  21028  C4* A   A1004     221.030 116.895  65.820  1.00197.87      A16S
ATOM  21029  O4* A   A1004     219.702 116.324  65.753  1.00197.87      A16S
ATOM  21030  C1* A   A1004     219.272 116.299  64.408  1.00197.87      A16S
ATOM  21031  N9  A   A1004     217.891 116.793  64.326  1.00201.30      A16S
ATOM  21032  C4  A   A1004     216.924 116.749  65.307  1.00201.30      A16S
ATOM  21033  N3  A   A1004     217.042 116.268  66.558  1.00201.30      A16S
ATOM  21034  C2  A   A1004     215.890 116.391  67.222  1.00201.30      A16S
ATOM  21035  N1  A   A1004     214.723 116.903  66.810  1.00201.30      A16S
ATOM  21036  C6  A   A1004     214.638 117.380  65.549  1.00201.30      A16S
ATOM  21037  N6  A   A1004     213.478 117.898  65.137  1.00201.30      A16S
ATOM  21038  C5  A   A1004     215.788 117.303  64.741  1.00201.30      A16S
ATOM  21039  N7  A   A1004     216.033 117.693  63.435  1.00201.30      A16S
ATOM  21040  C8  A   A1004     217.288 117.376  63.240  1.00201.30      A16S
ATOM  21041  C2* A   A1004     220.322 117.021  63.554  1.00197.87      A16S
ATOM  21042  O2* A   A1004     221.105 116.047  62.892  1.00197.87      A16S
ATOM  21043  C3* A   A1004     221.123 117.797  64.602  1.00197.87      A16S
ATOM  21044  O3* A   A1004     222.492 117.950  64.222  1.00197.87      A16S
ATOM  21045  P   A   A1005     222.882 118.806  62.915  1.00201.09      A16S
ATOM  21046  O1P A   A1005     222.447 118.021  61.731  1.00187.34      A16S
ATOM  21047  O2P A   A1005     224.309 119.200  63.044  1.00187.34      A16S
ATOM  21048  O5* A   A1005     222.003 120.133  63.023  1.00201.09      A16S
ATOM  21049  C5* A   A1005     221.099 120.520  61.965  1.00201.09      A16S
ATOM  21050  C4* A   A1005     221.472 121.883  61.428  1.00201.09      A16S
ATOM  21051  O4* A   A1005     221.483 122.830  62.526  1.00201.09      A16S
ATOM  21052  C1* A   A1005     222.496 123.795  62.315  1.00201.09      A16S
ATOM  21053  N9  A   A1005     223.393 123.792  63.472  1.00187.34      A16S
ATOM  21054  C4  A   A1005     223.884 124.905  64.113  1.00187.34      A16S
ATOM  21055  N3  A   A1005     223.645 126.193  63.811  1.00187.34      A16S
ATOM  21056  C2  A   A1005     224.284 126.998  64.654  1.00187.34      A16S
ATOM  21057  N1  A   A1005     225.076 126.686  65.686  1.00187.34      A16S
ATOM  21058  C6  A   A1005     225.295 125.382  65.962  1.00187.34      A16S
ATOM  21059  N6  A   A1005     226.082 125.071  66.991  1.00187.34      A16S
ATOM  21060  C5  A   A1005     224.676 124.428  65.141  1.00187.34      A16S
ATOM  21061  N7  A   A1005     224.690 123.041  65.148  1.00187.34      A16S
ATOM  21062  C8  A   A1005     223.917 122.713  64.142  1.00187.34      A16S
ATOM  21063  C2* A   A1005     223.191 123.479  60.988  1.00201.09      A16S
ATOM  21064  O2* A   A1005     222.661 124.311  59.973  1.00201.09      A16S
ATOM  21065  C3* A   A1005     222.855 122.000  60.795  1.00201.09      A16S
ATOM  21066  O3* A   A1005     222.819 121.666  59.404  1.00201.09      A16S
ATOM  21067  P   C   A1006     223.878 120.612  58.789  1.00201.30      A16S
ATOM  21068  O1P C   A1006     223.870 120.800  57.315  1.00201.30      A16S
ATOM  21069  O2P C   A1006     223.591 119.268  59.354  1.00201.30      A16S
ATOM  21070  O5* C   A1006     225.306 121.079  59.326  1.00201.30      A16S
ATOM  21071  C5* C   A1006     225.690 122.470  59.347  1.00201.30      A16S
ATOM  21072  C4* C   A1006     226.922 122.648  60.202  1.00201.30      A16S
ATOM  21073  O4* C   A1006     226.711 121.922  61.442  1.00201.30      A16S
ATOM  21074  C1* C   A1006     227.917 121.302  61.849  1.00201.30      A16S
ATOM  21075  N1  C   A1006     227.679 119.845  61.949  1.00201.30      A16S
ATOM  21076  C6  C   A1006     227.268 119.123  60.860  1.00201.30      A16S
ATOM  21077  C2  C   A1006     227.880 119.205  63.185  1.00201.30      A16S
ATOM  21078  O2  C   A1006     228.250 119.875  64.163  1.00201.30      A16S
ATOM  21079  N3  C   A1006     227.663 117.872  63.281  1.00201.30      A16S
ATOM  21080  C4  C   A1006     227.260 117.181  62.213  1.00201.30      A16S
ATOM  21081  N4  C   A1006     227.054 115.869  62.359  1.00201.30      A16S
ATOM  21082  C5  C   A1006     227.048 117.804  60.947  1.00201.30      A16S
ATOM  21083  C2* C   A1006     229.016 121.708  60.862  1.00201.30      A16S
ATOM  21084  O2* C   A1006     229.747 122.803  61.381  1.00201.30      A16S
ATOM  21085  C3* C   A1006     228.207 122.070  59.621  1.00201.30      A16S
ATOM  21086  O3* C   A1006     228.881 123.036  58.814  1.00201.30      A16S
ATOM  21087  P   C   A1007     229.930 122.555  57.691  1.00201.18      A16S
ATOM  21088  O1P C   A1007     230.245 123.744  56.856  1.00149.94      A16S
ATOM  21089  O2P C   A1007     229.403 121.323  57.043  1.00149.94      A16S
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ATOM	21090	O5*	C	A1007	231.238	122.159	58.513	1.00201.18	A16S
ATOM	21091	C5*	C	A1007	232.191	123.159	58.928	1.00201.18	A16S
ATOM	21092	C4*	C	A1007	233.298	122.522	59.735	1.00201.18	A16S
ATOM	21093	O4*	C	A1007	232.706	121.864	60.884	1.00201.18	A16S
ATOM	21094	C1*	C	A1007	233.408	120.665	61.165	1.00201.18	A16S
ATOM	21095	N1	C	A1007	232.469	119.533	61.051	1.00149.94	A16S
ATOM	21096	C6	C	A1007	231.414	119.577	60.181	1.00149.94	A16S
ATOM	21097	C2	C	A1007	232.675	118.401	61.852	1.00149.94	A16S
ATOM	21098	O2	C	A1007	233.647	118.374	62.627	1.00149.94	A16S
ATOM	21099	N3	C	A1007	231.813	117.366	61.761	1.00149.94	A16S
ATOM	21100	C4	C	A1007	230.786	117.423	60.914	1.00149.94	A16S
ATOM	21101	N4	C	A1007	229.963	116.375	60.862	1.00149.94	A16S
ATOM	21102	C5	C	A1007	230.556	118.556	60.083	1.00149.94	A16S
ATOM	21103	C2*	C	A1007	234.581	120.566	60.191	1.00201.18	A16S
ATOM	21104	O2*	C	A1007	235.742	121.075	60.816	1.00201.18	A16S
ATOM	21105	C3*	C	A1007	234.095	121.429	59.032	1.00201.18	A16S
ATOM	21106	O3*	C	A1007	235.178	121.957	58.272	1.00201.18	A16S
ATOM	21107	P	C	A1008	235.896	121.038	57.163	1.00197.72	A16S
ATOM	21108	O1P	C	A1008	236.994	121.842	56.567	1.00200.39	A16S
ATOM	21109	O2P	C	A1008	234.855	120.453	56.284	1.00200.39	A16S
ATOM	21110	O5*	C	A1008	236.549	119.854	58.003	1.00197.72	A16S
ATOM	21111	C5*	C	A1008	237.660	120.104	58.879	1.00197.72	A16S
ATOM	21112	C4*	C	A1008	238.142	118.816	59.505	1.00197.72	A16S
ATOM	21113	O4*	C	A1008	237.139	118.283	60.404	1.00197.72	A16S
ATOM	21114	C1*	C	A1008	237.246	116.868	60.440	1.00197.72	A16S
ATOM	21115	N1	C	A1008	235.922	116.269	60.187	1.00200.39	A16S
ATOM	21116	C6	C	A1008	235.013	116.884	59.370	1.00200.39	A16S
ATOM	21117	C2	C	A1008	235.605	115.044	60.805	1.00200.39	A16S
ATOM	21118	O2	C	A1008	236.447	114.497	61.541	1.00200.39	A16S
ATOM	21119	N3	C	A1008	234.393	114.490	60.583	1.00200.39	A16S
ATOM	21120	C4	C	A1008	233.514	115.102	59.785	1.00200.39	A16S
ATOM	21121	N4	C	A1008	232.328	114.517	59.599	1.00200.39	A16S
ATOM	21122	C5	C	A1008	233.810	116.341	59.144	1.00200.39	A16S
ATOM	21123	C2*	C	A1008	238.325	116.443	59.442	1.00197.72	A16S
ATOM	21124	O2*	C	A1008	239.516	116.157	60.148	1.00197.72	A16S
ATOM	21125	C3*	C	A1008	238.439	117.675	58.547	1.00197.72	A16S
ATOM	21126	O3*	C	A1008	239.745	117.802	58.000	1.00197.72	A16S
ATOM	21127	P	G	A1009	239.927	118.176	56.447	1.00145.78	A16S
ATOM	21128	O1P	G	A1009	240.130	119.649	56.376	1.00200.47	A16S
ATOM	21129	O2P	G	A1009	238.820	117.549	55.676	1.00200.47	A16S
ATOM	21130	O5*	G	A1009	241.297	117.461	56.050	1.00145.78	A16S
ATOM	21131	C5*	G	A1009	241.329	116.074	55.654	1.00145.78	A16S
ATOM	21132	C4*	G	A1009	241.630	115.196	56.845	1.00145.78	A16S
ATOM	21133	O4*	G	A1009	240.530	115.259	57.789	1.00145.78	A16S
ATOM	21134	C1*	G	A1009	240.367	114.000	58.421	1.00145.78	A16S
ATOM	21135	N9	G	A1009	238.993	113.544	58.227	1.00200.47	A16S
ATOM	21136	C4	G	A1009	238.333	112.601	58.983	1.00200.47	A16S
ATOM	21137	N3	G	A1009	238.842	111.933	60.039	1.00200.47	A16S
ATOM	21138	C2	G	A1009	237.966	111.090	60.559	1.00200.47	A16S
ATOM	21139	N2	G	A1009	238.307	110.343	61.617	1.00200.47	A16S
ATOM	21140	N1	G	A1009	236.692	110.916	60.082	1.00200.47	A16S
ATOM	21141	C6	G	A1009	236.145	111.590	58.997	1.00200.47	A16S
ATOM	21142	O6	G	A1009	234.981	111.354	58.647	1.00200.47	A16S
ATOM	21143	C5	G	A1009	237.076	112.501	58.427	1.00200.47	A16S
ATOM	21144	N7	G	A1009	236.945	113.361	57.345	1.00200.47	A16S
ATOM	21145	C8	G	A1009	238.103	113.958	57.264	1.00200.47	A16S
ATOM	21146	C2*	G	A1009	241.411	113.042	57.848	1.00145.78	A16S
ATOM	21147	O2*	G	A1009	242.496	112.941	58.749	1.00145.78	A16S
ATOM	21148	C3*	G	A1009	241.769	113.719	56.529	1.00145.78	A16S
ATOM	21149	O3*	G	A1009	243.095	113.423	56.117	1.00145.78	A16S
ATOM	21150	P	G	A1010	243.351	112.252	55.051	1.00136.11	A16S
ATOM	21151	O1P	G	A1010	244.816	112.212	54.799	1.00192.65	A16S
ATOM	21152	O2P	G	A1010	242.418	112.466	53.913	1.00192.65	A16S
ATOM	21153	O5*	G	A1010	242.922	110.918	55.821	1.00136.11	A16S
ATOM	21154	C5*	G	A1010	243.709	110.417	56.923	1.00136.11	A16S
ATOM	21155	C4*	G	A1010	243.111	109.143	57.490	1.00136.11	A16S
ATOM	21156	O4*	G	A1010	241.803	109.414	58.054	1.00136.11	A16S
ATOM	21157	C1*	G	A1010	241.007	108.243	57.982	1.00136.11	A16S
ATOM	21158	N9	G	A1010	239.746	108.554	57.312	1.00192.65	A16S
ATOM	21159	C4	G	A1010	238.712	107.672	57.077	1.00192.65	A16S
ATOM	21160	N3	G	A1010	238.685	106.368	57.431	1.00192.65	A16S
ATOM	21161	C2	G	A1010	237.559	105.780	57.066	1.00192.65	A16S
ATOM	21162	N2	G	A1010	237.364	104.484	57.346	1.00192.65	A16S
ATOM	21163	N1	G	A1010	236.542	106.419	56.401	1.00192.65	A16S
ATOM	21164	C6	G	A1010	236.548	107.758	56.025	1.00192.65	A16S
ATOM	21165	O6	G	A1010	235.577	108.234	55.425	1.00192.65	A16S
ATOM	21166	C5	G	A1010	237.749	108.404	56.417	1.00192.65	A16S

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ATOM  21167  N7  G  A1010     238.161 109.720  56.246  1.00192.65      A16S
ATOM  21168  C8  G  A1010     239.347 109.763  56.792  1.00192.65      A16S
ATOM  21169  C2* G  A1010     241.823 107.153  57.282  1.00136.11      A16S
ATOM  21170  O2* G  A1010     242.366 106.284  58.256  1.00136.11      A16S
ATOM  21171  C3* G  A1010     242.887 107.967  56.548  1.00136.11      A16S
ATOM  21172  O3* G  A1010     244.074 107.196  56.363  1.00136.11      A16S
ATOM  21173  P   G  A1011     244.232 106.267  55.056  1.00173.94      A16S
ATOM  21174  O1P G  A1011     245.534 105.559  55.160  1.00128.87      A16S
ATOM  21175  O2P G  A1011     243.944 107.093  53.859  1.00128.87      A16S
ATOM  21176  O5* G  A1011     243.080 105.178  55.205  1.00173.94      A16S
ATOM  21177  C5* G  A1011     243.222 104.077  56.122  1.00173.94      A16S
ATOM  21178  C4* G  A1011     242.137 103.051  55.891  1.00173.94      A16S
ATOM  21179  O4* G  A1011     240.844 103.632  56.204  1.00173.94      A16S
ATOM  21180  C1* G  A1011     239.857 103.099  55.334  1.00173.94      A16S
ATOM  21181  N9  G  A1011     239.269 104.194  54.565  1.00128.87      A16S
ATOM  21182  C4  G  A1011     238.129 104.122  53.799  1.00128.87      A16S
ATOM  21183  N3  G  A1011     237.356 103.026  53.635  1.00128.87      A16S
ATOM  21184  C2  G  A1011     236.328 103.258  52.838  1.00128.87      A16S
ATOM  21185  N2  G  A1011     235.460 102.269  52.577  1.00128.87      A16S
ATOM  21186  N1  G  A1011     236.078 104.476  52.244  1.00128.87      A16S
ATOM  21187  C6  G  A1011     236.861 105.620  52.395  1.00128.87      A16S
ATOM  21188  O6  G  A1011     236.547 106.670  51.807  1.00128.87      A16S
ATOM  21189  C5  G  A1011     237.971 105.380  53.255  1.00128.87      A16S
ATOM  21190  N7  G  A1011     238.990 106.229  53.672  1.00128.87      A16S
ATOM  21191  C8  G  A1011     239.733 105.485  54.447  1.00128.87      A16S
ATOM  21192  C2* G  A1011     240.538 102.069  54.431  1.00173.94      A16S
ATOM  21193  O2* G  A1011     240.371 100.766  54.959  1.00173.94      A16S
ATOM  21194  C3* G  A1011     241.985 102.544  54.465  1.00173.94      A16S
ATOM  21195  O3* G  A1011     242.899 101.507  54.140  1.00173.94      A16S
ATOM  21196  P   U  A1012     243.528 101.452  52.662  1.00182.73      A16S
ATOM  21197  O1P U  A1012     244.544 100.370  52.642  1.00 67.50      A16S
ATOM  21198  O2P U  A1012     243.925 102.839  52.290  1.00 67.50      A16S
ATOM  21199  O5* U  A1012     242.306 101.014  51.736  1.00182.73      A16S
ATOM  21200  C5* U  A1012     241.798  99.663  51.766  1.00182.73      A16S
ATOM  21201  C4* U  A1012     240.632  99.512  50.812  1.00182.73      A16S
ATOM  21202  O4* U  A1012     239.540 100.365  51.248  1.00182.73      A16S
ATOM  21203  C1* U  A1012     238.841 100.863  50.117  1.00182.73      A16S
ATOM  21204  N1  U  A1012     238.953 102.331  50.094  1.00 67.50      A16S
ATOM  21205  C6  U  A1012     240.093 102.986  50.531  1.00 67.50      A16S
ATOM  21206  C2  U  A1012     237.874 103.046  49.608  1.00 67.50      A16S
ATOM  21207  O2  U  A1012     236.854 102.509  49.207  1.00 67.50      A16S
ATOM  21208  N3  U  A1012     238.030 104.416  49.609  1.00 67.50      A16S
ATOM  21209  C4  U  A1012     239.133 105.136  50.042  1.00 67.50      A16S
ATOM  21210  O4  U  A1012     239.080 106.374  50.073  1.00 67.50      A16S
ATOM  21211  C5  U  A1012     240.216 104.325  50.520  1.00 67.50      A16S
ATOM  21212  C2* U  A1012     239.470 100.240  48.874  1.00182.73      A16S
ATOM  21213  O2* U  A1012     238.762  99.073  48.507  1.00182.73      A16S
ATOM  21214  C3* U  A1012     240.874  99.934  49.370  1.00182.73      A16S
ATOM  21215  O3* U  A1012     241.495  98.941  48.574  1.00182.73      A16S
ATOM  21216  P   G  A1013     242.309  99.385  47.260  1.00129.06      A16S
ATOM  21217  O1P G  A1013     242.793  98.131  46.622  1.00 96.71      A16S
ATOM  21218  O2P G  A1013     243.285 100.449  47.639  1.00 96.71      A16S
ATOM  21219  O5* G  A1013     241.208 100.059  46.320  1.00129.06      A16S
ATOM  21220  C5* G  A1013     240.319  99.255  45.519  1.00129.06      A16S
ATOM  21221  C4* G  A1013     239.430 100.133  44.662  1.00129.06      A16S
ATOM  21222  O4* G  A1013     238.552 100.925  45.511  1.00129.06      A16S
ATOM  21223  C1* G  A1013     238.311 102.191  44.912  1.00129.06      A16S
ATOM  21224  N9  G  A1013     238.945 103.222  45.726  1.00 96.71      A16S
ATOM  21225  C4  G  A1013     238.602 104.552  45.780  1.00 96.71      A16S
ATOM  21226  N3  G  A1013     237.565 105.132  45.140  1.00 96.71      A16S
ATOM  21227  C2  G  A1013     237.519 106.440  45.359  1.00 96.71      A16S
ATOM  21228  N2  G  A1013     236.543 107.180  44.812  1.00 96.71      A16S
ATOM  21229  N1  G  A1013     238.423 107.120  46.133  1.00 96.71      A16S
ATOM  21230  C6  G  A1013     239.497 106.541  46.800  1.00 96.71      A16S
ATOM  21231  O6  G  A1013     240.260 107.246  47.470  1.00 96.71      A16S
ATOM  21232  C5  G  A1013     239.552 105.141  46.586  1.00 96.71      A16S
ATOM  21233  N7  G  A1013     240.450 104.197  47.062  1.00 96.71      A16S
ATOM  21234  C8  G  A1013     240.044 103.074  46.539  1.00 96.71      A16S
ATOM  21235  C2* G  A1013     239.006 102.182  43.554  1.00129.06      A16S
ATOM  21236  O2* G  A1013     238.103 101.777  42.546  1.00129.06      A16S
ATOM  21237  C3* G  A1013     240.120 101.174  43.795  1.00129.06      A16S
ATOM  21238  O3* G  A1013     240.667 100.683  42.584  1.00129.06      A16S
ATOM  21239  P   A  A1014     241.886 101.483  41.902  1.00 95.17      A16S
ATOM  21240  O1P A  A1014     242.280 100.757  40.666  1.00 90.39      A16S
ATOM  21241  O2P A  A1014     242.902 101.743  42.950  1.00 90.39      A16S
ATOM  21242  O5* A  A1014     241.253 102.892  41.495  1.00 95.17      A16S
ATOM  21243  C5* A  A1014     242.043 103.881  40.802  1.00 95.17      A16S
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ATOM  21244  C4* A   A1014      241.234 104.538  39.702  1.00 95.17      A16S
ATOM  21245  O4* A   A1014      240.767 103.531  38.771  1.00 95.17      A16S
ATOM  21246  C1* A   A1014      239.476 103.874  38.299  1.00 95.17      A16S
ATOM  21247  N9  A   A1014      238.576 102.753  38.587  1.00 90.39      A16S
ATOM  21248  C4  A   A1014      237.393 102.444  37.953  1.00 90.39      A16S
ATOM  21249  N3  A   A1014      236.787 103.124  36.964  1.00 90.39      A16S
ATOM  21250  C2  A   A1014      235.671 102.510  36.589  1.00 90.39      A16S
ATOM  21251  N1  A   A1014      235.134 101.377  37.050  1.00 90.39      A16S
ATOM  21252  C6  A   A1014      235.769 100.719  38.044  1.00 90.39      A16S
ATOM  21253  N6  A   A1014      235.242  99.583  38.510  1.00 90.39      A16S
ATOM  21254  C5  A   A1014      236.955 101.268  38.533  1.00 90.39      A16S
ATOM  21255  N7  A   A1014      237.824 100.855  39.530  1.00 90.39      A16S
ATOM  21256  C8  A   A1014      238.762 101.767  39.527  1.00 90.39      A16S
ATOM  21257  C2* A   A1014      239.087 105.220  38.916  1.00 95.17      A16S
ATOM  21258  O2* A   A1014      239.354 106.249  37.983  1.00 95.17      A16S
ATOM  21259  C3* A   A1014      239.987 105.280  40.150  1.00 95.17      A16S
ATOM  21260  O3* A   A1014      240.333 106.622  40.479  1.00 95.17      A16S
ATOM  21261  P   A   A1015      240.252 107.126  42.003  1.00 85.13      A16S
ATOM  21262  O1P A   A1015      241.298 108.157  42.178  1.00 72.39      A16S
ATOM  21263  O2P A   A1015      240.241 105.937  42.898  1.00 72.39      A16S
ATOM  21264  O5* A   A1015      238.853 107.883  42.061  1.00 85.13      A16S
ATOM  21265  C5* A   A1015      238.618 109.050  41.242  1.00 85.13      A16S
ATOM  21266  C4* A   A1015      237.262 108.966  40.580  1.00 85.13      A16S
ATOM  21267  O4* A   A1015      237.192 107.745  39.797  1.00 85.13      A16S
ATOM  21268  C1* A   A1015      235.880 107.209  39.857  1.00 85.13      A16S
ATOM  21269  N9  A   A1015      235.968 105.846  40.388  1.00 72.39      A16S
ATOM  21270  C4  A   A1015      235.068 104.823  40.199  1.00 72.39      A16S
ATOM  21271  N3  A   A1015      233.896 104.872  39.543  1.00 72.39      A16S
ATOM  21272  C2  A   A1015      233.308 103.673  39.537  1.00 72.39      A16S
ATOM  21273  N1  A   A1015      233.731 102.517  40.069  1.00 72.39      A16S
ATOM  21274  C6  A   A1015      234.915 102.501  40.719  1.00 72.39      A16S
ATOM  21275  N6  A   A1015      235.346 101.343  41.232  1.00 72.39      A16S
ATOM  21276  C5  A   A1015      235.629 103.712  40.807  1.00 72.39      A16S
ATOM  21277  N7  A   A1015      236.835 104.040  41.404  1.00 72.39      A16S
ATOM  21278  C8  A   A1015      236.982 105.314  41.138  1.00 72.39      A16S
ATOM  21279  C2* A   A1015      235.020 108.168  40.678  1.00 85.13      A16S
ATOM  21280  O2* A   A1015      234.367 109.062  39.800  1.00 85.13      A16S
ATOM  21281  C3* A   A1015      236.069 108.883  41.520  1.00 85.13      A16S
ATOM  21282  O3* A   A1015      235.632 110.175  41.916  1.00 85.13      A16S
ATOM  21283  P   A   A1016      234.890 110.362  43.331  1.00113.14      A16S
ATOM  21284  O1P A   A1016      234.618 111.820  43.477  1.00 79.33      A16S
ATOM  21285  O2P A   A1016      235.662 109.646  44.381  1.00 79.33      A16S
ATOM  21286  O5* A   A1016      233.500 109.601  43.157  1.00113.14      A16S
ATOM  21287  C5* A   A1016      232.452 110.148  42.331  1.00113.14      A16S
ATOM  21288  C4* A   A1016      231.402 109.100  42.062  1.00113.14      A16S
ATOM  21289  O4* A   A1016      232.055 107.948  41.475  1.00113.14      A16S
ATOM  21290  C1* A   A1016      231.439 106.762  41.931  1.00113.14      A16S
ATOM  21291  N9  A   A1016      232.446 105.962  42.624  1.00 79.33      A16S
ATOM  21292  C4  A   A1016      232.397 104.605  42.819  1.00 79.33      A16S
ATOM  21293  N3  A   A1016      231.440 103.758  42.410  1.00 79.33      A16S
ATOM  21294  C2  A   A1016      231.718 102.512  42.789  1.00 79.33      A16S
ATOM  21295  N1  A   A1016      232.764 102.051  43.480  1.00 79.33      A16S
ATOM  21296  C6  A   A1016      233.711 102.931  43.879  1.00 79.33      A16S
ATOM  21297  N6  A   A1016      234.755 102.474  44.577  1.00 79.33      A16S
ATOM  21298  C5  A   A1016      233.535 104.285  43.534  1.00 79.33      A16S
ATOM  21299  N7  A   A1016      234.298 105.419  43.776  1.00 79.33      A16S
ATOM  21300  C8  A   A1016      233.611 106.384  43.217  1.00 79.33      A16S
ATOM  21301  C2* A   A1016      230.270 107.156  42.833  1.00113.14      A16S
ATOM  21302  O2* A   A1016      229.073 107.140  42.081  1.00113.14      A16S
ATOM  21303  C3* A   A1016      230.681 108.553  43.285  1.00113.14      A16S
ATOM  21304  O3* A   A1016      229.550 109.355  43.621  1.00113.14      A16S
ATOM  21305  P   G   A1017      229.258 109.733  45.161  1.00 87.66      A16S
ATOM  21306  O1P G   A1017      227.964 110.463  45.166  1.00 76.82      A16S
ATOM  21307  O2P G   A1017      230.467 110.375  45.742  1.00 76.82      A16S
ATOM  21308  O5* G   A1017      229.032 108.332  45.886  1.00 87.66      A16S
ATOM  21309  C5* G   A1017      227.969 107.462  45.473  1.00 87.66      A16S
ATOM  21310  C4* G   A1017      228.336 106.026  45.741  1.00 87.66      A16S
ATOM  21311  O4* G   A1017      229.627 105.757  45.143  1.00 87.66      A16S
ATOM  21312  C1* G   A1017      230.364 104.875  45.965  1.00 87.66      A16S
ATOM  21313  N9  G   A1017      231.552 105.580  46.437  1.00 76.82      A16S
ATOM  21314  C4  G   A1017      232.686 105.001  46.945  1.00 76.82      A16S
ATOM  21315  N3  G   A1017      232.895 103.677  47.093  1.00 76.82      A16S
ATOM  21316  C2  G   A1017      234.074 103.421  47.620  1.00 76.82      A16S
ATOM  21317  N2  G   A1017      234.436 102.151  47.849  1.00 76.82      A16S
ATOM  21318  N1  G   A1017      234.983 104.392  47.967  1.00 76.82      A16S
ATOM  21319  C6  G   A1017      234.788 105.765  47.822  1.00 76.82      A16S
ATOM  21320  O6  G   A1017      235.676 106.563  48.173  1.00 76.82      A16S
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ATOM  21321  C5  G  A1017     233.523 106.050  47.262  1.00 76.82      A16S
ATOM  21322  N7  G  A1017     232.929 107.268  46.958  1.00 76.82      A16S
ATOM  21323  C8  G  A1017     231.762 106.942  46.472  1.00 76.82      A16S
ATOM  21324  C2* G  A1017     229.460 104.456  47.120  1.00 87.66      A16S
ATOM  21325  O2* G  A1017     228.815 103.242  46.787  1.00 87.66      A16S
ATOM  21326  C3* G  A1017     228.510 105.644  47.201  1.00 87.66      A16S
ATOM  21327  O3* G  A1017     227.266 105.308  47.806  1.00 87.66      A16S
ATOM  21328  P   C  A1018     227.019 105.641  49.358  1.00110.84      A16S
ATOM  21329  O1P C  A1018     225.570 105.426  49.594  1.00 72.11      A16S
ATOM  21330  O2P C  A1018     227.632 106.964  49.677  1.00 72.11      A16S
ATOM  21331  O5* C  A1018     227.834 104.508  50.129  1.00110.84      A16S
ATOM  21332  C5* C  A1018     227.524 103.111  49.941  1.00110.84      A16S
ATOM  21333  C4* C  A1018     228.672 102.248  50.419  1.00110.84      A16S
ATOM  21334  O4* C  A1018     229.848 102.536  49.615  1.00110.84      A16S
ATOM  21335  C1* C  A1018     231.012 102.482  50.426  1.00110.84      A16S
ATOM  21336  N1  C  A1018     231.593 103.839  50.512  1.00 72.11      A16S
ATOM  21337  C6  C  A1018     230.802 104.956  50.414  1.00 72.11      A16S
ATOM  21338  C2  C  A1018     232.975 103.969  50.709  1.00 72.11      A16S
ATOM  21339  O2  C  A1018     233.673 102.941  50.778  1.00 72.11      A16S
ATOM  21340  N3  C  A1018     233.515 105.212  50.816  1.00 72.11      A16S
ATOM  21341  C4  C  A1018     232.732 106.294  50.722  1.00 72.11      A16S
ATOM  21342  N4  C  A1018     233.307 107.501  50.832  1.00 72.11      A16S
ATOM  21343  C5  C  A1018     231.324 106.189  50.511  1.00 72.11      A16S
ATOM  21344  C2* C  A1018     230.582 101.998  51.806  1.00110.84      A16S
ATOM  21345  O2* C  A1018     230.707 100.590  51.863  1.00110.84      A16S
ATOM  21346  C3* C  A1018     229.139 102.481  51.850  1.00110.84      A16S
ATOM  21347  O3* C  A1018     228.359 101.808  52.827  1.00110.84      A16S
ATOM  21348  P   C  A1019     228.032 102.546  54.220  1.00199.70      A16S
ATOM  21349  O1P C  A1019     226.894 101.802  54.813  1.00 88.65      A16S
ATOM  21350  O2P C  A1019     227.903 104.006  53.973  1.00 88.65      A16S
ATOM  21351  O5* C  A1019     229.345 102.338  55.107  1.00199.70      A16S
ATOM  21352  C5* C  A1019     229.695 101.042  55.640  1.00199.70      A16S
ATOM  21353  C4* C  A1019     231.104 101.054  56.206  1.00199.70      A16S
ATOM  21354  O4* C  A1019     232.034 101.451  55.160  1.00199.70      A16S
ATOM  21355  C1* C  A1019     233.110 102.187  55.727  1.00199.70      A16S
ATOM  21356  N1  C  A1019     233.038 103.587  55.262  1.00 88.65      A16S
ATOM  21357  C6  C  A1019     231.839 104.156  54.924  1.00 88.65      A16S
ATOM  21358  C2  C  A1019     234.216 104.346  55.217  1.00 88.65      A16S
ATOM  21359  O2  C  A1019     235.298 103.799  55.488  1.00 88.65      A16S
ATOM  21360  N3  C  A1019     234.145 105.654  54.883  1.00 88.65      A16S
ATOM  21361  C4  C  A1019     232.963 106.206  54.593  1.00 88.65      A16S
ATOM  21362  N4  C  A1019     232.934 107.512  54.302  1.00 88.65      A16S
ATOM  21363  C5  C  A1019     231.756 105.449  54.595  1.00 88.65      A16S
ATOM  21364  C2* C  A1019     232.913 102.183  57.239  1.00199.70      A16S
ATOM  21365  O2* C  A1019     233.625 101.111  57.824  1.00199.70      A16S
ATOM  21366  C3* C  A1019     231.403 102.026  57.342  1.00199.70      A16S
ATOM  21367  O3* C  A1019     231.019 101.583  58.635  1.00199.70      A16S
ATOM  21368  P   U  A1020     230.670 102.673  59.772  1.00201.30      A16S
ATOM  21369  O1P U  A1020     230.422 101.921  61.027  1.00140.26      A16S
ATOM  21370  O2P U  A1020     229.623 103.589  59.245  1.00140.26      A16S
ATOM  21371  O5* U  A1020     232.010 103.523  59.958  1.00201.30      A16S
ATOM  21372  C5* U  A1020     233.187 102.939  60.557  1.00201.30      A16S
ATOM  21373  C4* U  A1020     234.279 103.978  60.720  1.00201.30      A16S
ATOM  21374  O4* U  A1020     234.535 104.601  59.433  1.00201.30      A16S
ATOM  21375  C1* U  A1020     234.907 105.958  59.621  1.00201.30      A16S
ATOM  21376  N1  U  A1020     233.958 106.826  58.898  1.00140.26      A16S
ATOM  21377  C6  U  A1020     232.763 106.340  58.402  1.00140.26      A16S
ATOM  21378  C2  U  A1020     234.303 108.167  58.731  1.00140.26      A16S
ATOM  21379  O2  U  A1020     235.344 108.649  59.153  1.00140.26      A16S
ATOM  21380  N3  U  A1020     233.377 108.924  58.054  1.00140.26      A16S
ATOM  21381  C4  U  A1020     232.168 108.498  57.539  1.00140.26      A16S
ATOM  21382  O4  U  A1020     231.435 109.309  56.969  1.00140.26      A16S
ATOM  21383  C5  U  A1020     231.883 107.109  57.749  1.00140.26      A16S
ATOM  21384  C2* U  A1020     234.942 106.227  61.127  1.00201.30      A16S
ATOM  21385  O2* U  A1020     236.275 106.089  61.582  1.00201.30      A16S
ATOM  21386  C3* U  A1020     234.006 105.146  61.664  1.00201.30      A16S
ATOM  21387  O3* U  A1020     234.300 104.822  63.028  1.00201.30      A16S
ATOM  21388  P   G  A1021     233.545 105.603  64.226  1.00201.30      A16S
ATOM  21389  O1P G  A1021     233.993 104.990  65.504  1.00201.30      A16S
ATOM  21390  O2P G  A1021     232.092 105.653  63.914  1.00201.30      A16S
ATOM  21391  O5* G  A1021     234.118 107.094  64.165  1.00201.30      A16S
ATOM  21392  C5* G  A1021     235.545 107.351  64.122  1.00201.30      A16S
ATOM  21393  C4* G  A1021     235.824 108.775  63.673  1.00201.30      A16S
ATOM  21394  O4* G  A1021     235.044 109.056  62.479  1.00201.30      A16S
ATOM  21395  C1* G  A1021     234.620 110.410  62.485  1.00201.30      A16S
ATOM  21396  N9  G  A1021     233.158 110.438  62.503  1.00201.30      A16S
ATOM  21397  C4  G  A1021     232.363 111.561  62.591  1.00201.30      A16S
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ATOM  21398  N3  G  A1021     232.798 112.839  62.652  1.00201.30      A16S
ATOM  21399  C2  G  A1021     231.796 113.698  62.749  1.00201.30      A16S
ATOM  21400  N2  G  A1021     232.050 115.007  62.820  1.00201.30      A16S
ATOM  21401  N1  G  A1021     230.473 113.335  62.787  1.00201.30      A16S
ATOM  21402  C6  G  A1021     230.000 112.029  62.728  1.00201.30      A16S
ATOM  21403  O6  G  A1021     228.781 111.813  62.778  1.00201.30      A16S
ATOM  21404  C5  G  A1021     231.067 111.091  62.617  1.00201.30      A16S
ATOM  21405  N7  G  A1021     231.044 109.705  62.528  1.00201.30      A16S
ATOM  21406  C8  G  A1021     232.302 109.362  62.458  1.00201.30      A16S
ATOM  21407  C2* G  A1021     235.225 111.083  63.720  1.00201.30      A16S
ATOM  21408  O2* G  A1021     236.412 111.760  63.358  1.00201.30      A16S
ATOM  21409  C3* G  A1021     235.455 109.891  64.645  1.00201.30      A16S
ATOM  21410  O3* G  A1021     236.502 110.149  65.583  1.00201.30      A16S
ATOM  21411  P   G  A1022     236.169 110.878  66.981  1.00198.86      A16S
ATOM  21412  O1P G  A1022     237.426 110.894  67.770  1.00201.11      A16S
ATOM  21413  O2P G  A1022     234.947 110.264  67.562  1.00201.11      A16S
ATOM  21414  O5* G  A1022     235.830 112.382  66.575  1.00198.86      A16S
ATOM  21415  C5* G  A1022     236.838 113.242  66.006  1.00198.86      A16S
ATOM  21416  C4* G  A1022     236.295 114.643  65.814  1.00198.86      A16S
ATOM  21417  O4* G  A1022     235.141 114.597  64.931  1.00198.86      A16S
ATOM  21418  C1* G  A1022     234.209 115.601  65.308  1.00198.86      A16S
ATOM  21419  N9  G  A1022     232.929 114.968  65.631  1.00201.11      A16S
ATOM  21420  C4  G  A1022     231.730 115.617  65.835  1.00201.11      A16S
ATOM  21421  N3  G  A1022     231.530 116.950  65.775  1.00201.11      A16S
ATOM  21422  C2  G  A1022     230.273 117.273  66.020  1.00201.11      A16S
ATOM  21423  N2  G  A1022     229.905 118.557  66.004  1.00201.11      A16S
ATOM  21424  N1  G  A1022     229.285 116.360  66.300  1.00201.11      A16S
ATOM  21425  C6  G  A1022     229.464 114.982  66.365  1.00201.11      A16S
ATOM  21426  O6  G  A1022     228.502 114.247  66.619  1.00201.11      A16S
ATOM  21427  C5  G  A1022     230.815 114.620  66.107  1.00201.11      A16S
ATOM  21428  N7  G  A1022     231.423 113.372  66.079  1.00201.11      A16S
ATOM  21429  C8  G  A1022     232.673 113.625  65.795  1.00201.11      A16S
ATOM  21430  C2* G  A1022     234.802 116.371  66.490  1.00198.86      A16S
ATOM  21431  O2* G  A1022     235.442 117.545  66.028  1.00198.86      A16S
ATOM  21432  C3* G  A1022     235.787 115.357  67.059  1.00198.86      A16S
ATOM  21433  O3* G  A1022     236.827 116.003  67.782  1.00198.86      A16S
ATOM  21434  P   G  A1023     236.577 116.446  69.310  1.00201.30      A16S
ATOM  21435  O1P G  A1023     237.910 116.559  69.950  1.00200.50      A16S
ATOM  21436  O2P G  A1023     235.552 115.543  69.904  1.00200.50      A16S
ATOM  21437  O5* G  A1023     235.968 117.917  69.202  1.00201.30      A16S
ATOM  21438  C5* G  A1023     234.607 118.190  69.592  1.00201.30      A16S
ATOM  21439  C4* G  A1023     234.361 119.680  69.629  1.00201.30      A16S
ATOM  21440  O4* G  A1023     234.820 120.267  68.384  1.00201.30      A16S
ATOM  21441  C1* G  A1023     233.930 121.298  67.982  1.00201.30      A16S
ATOM  21442  N9  G  A1023     233.354 120.928  66.688  1.00200.50      A16S
ATOM  21443  C4  G  A1023     232.382 121.614  65.987  1.00200.50      A16S
ATOM  21444  N3  G  A1023     231.781 122.765  66.371  1.00200.50      A16S
ATOM  21445  C2  G  A1023     230.886 123.178  65.486  1.00200.50      A16S
ATOM  21446  N2  G  A1023     230.192 124.306  65.708  1.00200.50      A16S
ATOM  21447  N1  G  A1023     230.605 122.513  64.317  1.00200.50      A16S
ATOM  21448  C6  G  A1023     231.208 121.327  63.904  1.00200.50      A16S
ATOM  21449  O6  G  A1023     230.878 120.808  62.836  1.00200.50      A16S
ATOM  21450  C5  G  A1023     232.168 120.875  64.842  1.00200.50      A16S
ATOM  21451  N7  G  A1023     232.985 119.752  64.819  1.00200.50      A16S
ATOM  21452  C8  G  A1023     233.669 119.825  65.927  1.00200.50      A16S
ATOM  21453  C2* G  A1023     232.879 121.464  69.084  1.00201.30      A16S
ATOM  21454  O2* G  A1023     233.259 122.509  69.960  1.00201.30      A16S
ATOM  21455  C3* G  A1023     232.898 120.088  69.740  1.00201.30      A16S
ATOM  21456  O3* G  A1023     232.435 120.121  71.089  1.00201.30      A16S
ATOM  21457  P   G  A1024     230.914 119.703  71.423  1.00201.30      A16S
ATOM  21458  O1P G  A1024     230.722 119.876  72.888  1.00200.52      A16S
ATOM  21459  O2P G  A1024     230.645 118.379  70.800  1.00200.52      A16S
ATOM  21460  O5* G  A1024     230.021 120.795  70.675  1.00201.30      A16S
ATOM  21461  C5* G  A1024     230.198 122.205  70.930  1.00201.30      A16S
ATOM  21462  C4* G  A1024     229.051 123.002  70.346  1.00201.30      A16S
ATOM  21463  O4* G  A1024     228.977 122.769  68.912  1.00201.30      A16S
ATOM  21464  C1* G  A1024     227.622 122.814  68.487  1.00201.30      A16S
ATOM  21465  N9  G  A1024     227.276 121.531  67.873  1.00200.52      A16S
ATOM  21466  C4  G  A1024     226.007 121.088  67.545  1.00200.52      A16S
ATOM  21467  N3  G  A1024     224.850 121.768  67.726  1.00200.52      A16S
ATOM  21468  C2  G  A1024     223.796 121.071  67.327  1.00200.52      A16S
ATOM  21469  N2  G  A1024     222.565 121.592  67.438  1.00200.52      A16S
ATOM  21470  N1  G  A1024     223.871 119.809  66.790  1.00200.52      A16S
ATOM  21471  C6  G  A1024     225.047 119.090  66.593  1.00200.52      A16S
ATOM  21472  O6  G  A1024     225.001 117.955  66.101  1.00200.52      A16S
ATOM  21473  C5  G  A1024     226.188 119.826  67.018  1.00200.52      A16S
ATOM  21474  N7  G  A1024     227.534 119.485  67.005  1.00200.52      A16S
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ATOM  21475  C8  G  A1024     228.139 120.523  67.516  1.00200.52      A16S
ATOM  21476  C2* G  A1024     226.763 123.135  69.712  1.00201.30      A16S
ATOM  21477  O2* G  A1024     226.496 124.524  69.759  1.00201.30      A16S
ATOM  21478  C3* G  A1024     227.656 122.665  70.855  1.00201.30      A16S
ATOM  21479  O3* G  A1024     227.340 123.329  72.077  1.00201.30      A16S
ATOM  21480  P   U  A1025     226.089 122.824  72.959  1.00201.30      A16S
ATOM  21481  O1P U  A1025     226.079 123.626  74.212  1.00201.30      A16S
ATOM  21482  O2P U  A1025     226.142 121.338  73.040  1.00201.30      A16S
ATOM  21483  O5* U  A1025     224.813 123.218  72.086  1.00201.30      A16S
ATOM  21484  C5* U  A1025     223.837 124.172  72.561  1.00201.30      A16S
ATOM  21485  C4* U  A1025     223.722 125.319  71.586  1.00201.30      A16S
ATOM  21486  O4* U  A1025     223.555 124.788  70.246  1.00201.30      A16S
ATOM  21487  C1* U  A1025     222.707 125.639  69.494  1.00201.30      A16S
ATOM  21488  N1  U  A1025     221.555 124.847  69.028  1.00201.30      A16S
ATOM  21489  C6  U  A1025     220.560 124.440  69.896  1.00201.30      A16S
ATOM  21490  C2  U  A1025     221.496 124.519  67.682  1.00201.30      A16S
ATOM  21491  O2  U  A1025     222.349 124.854  66.876  1.00201.30      A16S
ATOM  21492  N3  U  A1025     220.398 123.781  67.314  1.00201.30      A16S
ATOM  21493  C4  U  A1025     219.373 123.347  68.131  1.00201.30      A16S
ATOM  21494  O4  U  A1025     218.452 122.688  67.648  1.00201.30      A16S
ATOM  21495  C5  U  A1025     219.504 123.723  69.503  1.00201.30      A16S
ATOM  21496  C2* U  A1025     222.340 126.835  70.381  1.00201.30      A16S
ATOM  21497  O2* U  A1025     223.203 127.923  70.103  1.00201.30      A16S
ATOM  21498  C3* U  A1025     222.543 126.260  71.780  1.00201.30      A16S
ATOM  21499  O3* U  A1025     222.802 127.275  72.745  1.00201.30      A16S
ATOM  21500  P   G  A1026     221.570 128.073  73.408  1.00201.30      A16S
ATOM  21501  O1P G  A1026     222.145 129.067  74.350  1.00201.30      A16S
ATOM  21502  O2P G  A1026     220.574 127.081  73.901  1.00201.30      A16S
ATOM  21503  O5* G  A1026     220.928 128.870  72.185  1.00201.30      A16S
ATOM  21504  C5* G  A1026     219.581 129.382  72.251  1.00201.30      A16S
ATOM  21505  C4* G  A1026     219.256 130.163  70.997  1.00201.30      A16S
ATOM  21506  O4* G  A1026     219.464 129.320  69.833  1.00201.30      A16S
ATOM  21507  C1* G  A1026     218.496 129.622  68.842  1.00201.30      A16S
ATOM  21508  N9  G  A1026     217.742 128.407  68.544  1.00201.30      A16S
ATOM  21509  C4  G  A1026     217.336 127.986  67.299  1.00201.30      A16S
ATOM  21510  N3  G  A1026     217.569 128.624  66.130  1.00201.30      A16S
ATOM  21511  C2  G  A1026     217.051 127.973  65.099  1.00201.30      A16S
ATOM  21512  N2  G  A1026     217.192 128.466  63.856  1.00201.30      A16S
ATOM  21513  N1  G  A1026     216.359 126.791  65.209  1.00201.30      A16S
ATOM  21514  C6  G  A1026     216.108 126.116  66.401  1.00201.30      A16S
ATOM  21515  O6  G  A1026     215.475 125.055  66.385  1.00201.30      A16S
ATOM  21516  C5  G  A1026     216.659 126.803  67.516  1.00201.30      A16S
ATOM  21517  N7  G  A1026     216.641 126.485  68.868  1.00201.30      A16S
ATOM  21518  C8  G  A1026     217.294 127.461  69.438  1.00201.30      A16S
ATOM  21519  C2* G  A1026     217.617 130.760  69.368  1.00201.30      A16S
ATOM  21520  O2* G  A1026     218.063 131.995  68.838  1.00201.30      A16S
ATOM  21521  C3* G  A1026     217.814 130.634  70.876  1.00201.30      A16S
ATOM  21522  O3* G  A1026     217.590 131.868  71.553  1.00201.30      A16S
ATOM  21523  P   C  A1027     216.408 131.977  72.639  1.00201.21      A16S
ATOM  21524  O1P C  A1027     215.861 133.360  72.566  1.00201.30      A16S
ATOM  21525  O2P C  A1027     216.916 131.455  73.937  1.00201.30      A16S
ATOM  21526  O5* C  A1027     215.295 130.970  72.103  1.00201.21      A16S
ATOM  21527  C5* C  A1027     214.604 131.223  70.865  1.00201.21      A16S
ATOM  21528  C4* C  A1027     213.394 130.327  70.748  1.00201.21      A16S
ATOM  21529  O4* C  A1027     213.809 128.953  70.529  1.00201.21      A16S
ATOM  21530  C1* C  A1027     212.887 128.072  71.154  1.00201.21      A16S
ATOM  21531  N1  C  A1027     213.613 127.216  72.114  1.00201.30      A16S
ATOM  21532  C6  C  A1027     214.755 127.658  72.727  1.00201.30      A16S
ATOM  21533  C2  C  A1027     213.107 125.934  72.399  1.00201.30      A16S
ATOM  21534  O2  C  A1027     212.070 125.547  71.827  1.00201.30      A16S
ATOM  21535  N3  C  A1027     213.760 125.153  73.290  1.00201.30      A16S
ATOM  21536  C4  C  A1027     214.870 125.600  73.886  1.00201.30      A16S
ATOM  21537  N4  C  A1027     215.476 124.796  74.764  1.00201.30      A16S
ATOM  21538  C5  C  A1027     215.407 126.891  73.610  1.00201.30      A16S
ATOM  21539  C2* C  A1027     211.796 128.920  71.815  1.00201.21      A16S
ATOM  21540  O2* C  A1027     210.659 128.958  70.973  1.00201.21      A16S
ATOM  21541  C3* C  A1027     212.495 130.269  71.974  1.00201.21      A16S
ATOM  21542  O3* C  A1027     211.594 131.377  72.026  1.00201.21      A16S
ATOM  21543  P   C  A1028     211.184 132.011  73.451  1.00201.30      A16S
ATOM  21544  O1P C  A1028     210.623 133.364  73.188  1.00153.98      A16S
ATOM  21545  O2P C  A1028     212.332 131.866  74.386  1.00153.98      A16S
ATOM  21546  O5* C  A1028     210.003 131.066  73.960  1.00201.30      A16S
ATOM  21547  C5* C  A1028     208.859 130.793  73.119  1.00201.30      A16S
ATOM  21548  C4* C  A1028     208.258 129.446  73.460  1.00201.30      A16S
ATOM  21549  O4* C  A1028     209.253 128.410  73.255  1.00201.30      A16S
ATOM  21550  C1* C  A1028     209.086 127.389  74.222  1.00201.30      A16S
ATOM  21551  N1  C  A1028     210.355 127.211  74.957  1.00153.98      A16S
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ATOM  21552  C6   C   A1028     211.322 128.180  74.939  1.00153.98      A16S
ATOM  21553  C2   C   A1028     210.562 126.018  75.677  1.00153.98      A16S
ATOM  21554  O2   C   A1028     209.663 125.154  75.699  1.00153.98      A16S
ATOM  21555  N3   C   A1028     211.735 125.839  76.331  1.00153.98      A16S
ATOM  21556  C4   C   A1028     212.674 126.791  76.296  1.00153.98      A16S
ATOM  21557  N4   C   A1028     213.818 126.568  76.951  1.00153.98      A16S
ATOM  21558  C5   C   A1028     212.483 128.013  75.586  1.00153.98      A16S
ATOM  21559  C2*  C   A1028     207.895 127.760  75.109  1.00201.30      A16S
ATOM  21560  O2*  C   A1028     206.752 127.051  74.672  1.00201.30      A16S
ATOM  21561  C3*  C   A1028     207.794 129.271  74.899  1.00201.30      A16S
ATOM  21562  O3*  C   A1028     206.445 129.720  75.063  1.00201.30      A16S
ATOM  21563  P    C   A1029     206.069 130.755  76.242  1.00201.30      A16S
ATOM  21564  O1P  C   A1029     204.657 130.481  76.621  1.00201.30      A16S
ATOM  21565  O2P  C   A1029     206.458 132.121  75.807  1.00201.30      A16S
ATOM  21566  O5*  C   A1029     207.003 130.351  77.469  1.00201.30      A16S
ATOM  21567  C5*  C   A1029     207.080 128.992  77.938  1.00201.30      A16S
ATOM  21568  C4*  C   A1029     208.428 128.741  78.569  1.00201.30      A16S
ATOM  21569  O4*  C   A1029     209.469 129.042  77.601  1.00201.30      A16S
ATOM  21570  C1*  C   A1029     210.579 129.637  78.257  1.00201.30      A16S
ATOM  21571  N1   C   A1029     210.795 130.989  77.696  1.00201.30      A16S
ATOM  21572  C6   C   A1029     209.754 131.710  77.176  1.00201.30      A16S
ATOM  21573  C2   C   A1029     212.093 131.532  77.710  1.00201.30      A16S
ATOM  21574  O2   C   A1029     213.026 130.864  78.190  1.00201.30      A16S
ATOM  21575  N3   C   A1029     212.294 132.771  77.201  1.00201.30      A16S
ATOM  21576  C4   C   A1029     211.268 133.462  76.697  1.00201.30      A16S
ATOM  21577  N4   C   A1029     211.516 134.679  76.205  1.00201.30      A16S
ATOM  21578  C5   C   A1029     209.944 132.937  76.672  1.00201.30      A16S
ATOM  21579  C2*  C   A1029     210.274 129.660  79.756  1.00201.30      A16S
ATOM  21580  O2*  C   A1029     210.844 128.522  80.370  1.00201.30      A16S
ATOM  21581  C3*  C   A1029     208.752 129.629  79.758  1.00201.30      A16S
ATOM  21582  O3*  C   A1029     208.219 129.105  80.963  1.00201.30      A16S
ATOM  21583  P    C   A1030     207.574 130.106  82.042  1.00201.30      A16S
ATOM  21584  O1P  C   A1030     206.574 130.944  81.320  1.00194.95      A16S
ATOM  21585  O2P  C   A1030     208.683 130.766  82.775  1.00194.95      A16S
ATOM  21586  O5*  C   A1030     206.801 129.136  83.046  1.00201.30      A16S
ATOM  21587  C5*  C   A1030     205.362 128.999  82.991  1.00201.30      A16S
ATOM  21588  C4*  C   A1030     204.981 127.563  82.705  1.00201.30      A16S
ATOM  21589  O4*  C   A1030     205.483 127.191  81.396  1.00201.30      A16S
ATOM  21590  C1*  C   A1030     205.856 125.828  81.401  1.00201.30      A16S
ATOM  21591  N1   C   A1030     207.234 125.720  80.879  1.00194.95      A16S
ATOM  21592  C6   C   A1030     208.313 125.962  81.684  1.00194.95      A16S
ATOM  21593  C2   C   A1030     207.424 125.365  79.531  1.00194.95      A16S
ATOM  21594  O2   C   A1030     206.432 125.158  78.811  1.00194.95      A16S
ATOM  21595  N3   C   A1030     208.683 125.259  79.050  1.00194.95      A16S
ATOM  21596  C4   C   A1030     209.726 125.493  79.849  1.00194.95      A16S
ATOM  21597  N4   C   A1030     210.951 125.372  79.333  1.00194.95      A16S
ATOM  21598  C5   C   A1030     209.562 125.862  81.215  1.00194.95      A16S
ATOM  21599  C2*  C   A1030     205.601 125.258  82.804  1.00201.30      A16S
ATOM  21600  O2*  C   A1030     204.387 124.532  82.797  1.00201.30      A16S
ATOM  21601  C3*  C   A1030     205.544 126.523  83.666  1.00201.30      A16S
ATOM  21602  O3*  C   A1030     204.668 126.355  84.790  1.00201.30      A16S
ATOM  21603  P    G   A1030A    205.118 126.858  86.259  1.00200.59      A16S
ATOM  21604  O1P  G   A1030A    203.996 126.560  87.189  1.00201.30      A16S
ATOM  21605  O2P  G   A1030A    205.627 128.252  86.152  1.00201.30      A16S
ATOM  21606  O5*  G   A1030A    206.338 125.914  86.658  1.00200.59      A16S
ATOM  21607  C5*  G   A1030A    206.411 124.551  86.197  1.00200.59      A16S
ATOM  21608  C4*  G   A1030A    207.799 124.261  85.684  1.00200.59      A16S
ATOM  21609  O4*  G   A1030A    208.099 125.204  84.619  1.00200.59      A16S
ATOM  21610  C1*  G   A1030A    209.455 125.613  84.701  1.00200.59      A16S
ATOM  21611  N9   G   A1030A    209.487 127.048  84.984  1.00201.30      A16S
ATOM  21612  C4   G   A1030A    210.327 127.982  84.419  1.00201.30      A16S
ATOM  21613  N3   G   A1030A    211.266 127.743  83.478  1.00201.30      A16S
ATOM  21614  C2   G   A1030A    211.931 128.841  83.148  1.00201.30      A16S
ATOM  21615  N2   G   A1030A    212.913 128.779  82.231  1.00201.30      A16S
ATOM  21616  N1   G   A1030A    211.686 130.079  83.694  1.00201.30      A16S
ATOM  21617  C6   G   A1030A    210.723 130.352  84.661  1.00201.30      A16S
ATOM  21618  O6   G   A1030A    210.583 131.508  85.083  1.00201.30      A16S
ATOM  21619  C5   G   A1030A    210.006 129.179  85.029  1.00201.30      A16S
ATOM  21620  N7   G   A1030A    208.978 129.005  85.946  1.00201.30      A16S
ATOM  21621  C8   G   A1030A    208.700 127.731  85.883  1.00201.30      A16S
ATOM  21622  C2*  G   A1030A    210.109 124.796  85.816  1.00200.59      A16S
ATOM  21623  O2*  G   A1030A    210.710 123.634  85.278  1.00200.59      A16S
ATOM  21624  C3*  G   A1030A    208.911 124.476  86.698  1.00200.59      A16S
ATOM  21625  O3*  G   A1030A    209.134 123.350  87.537  1.00200.59      A16S
ATOM  21626  P    C   A1030B    209.509 123.578  89.089  1.00201.03      A16S
ATOM  21627  O1P  C   A1030B    209.923 122.256  89.629  1.00201.30      A16S
ATOM  21628  O2P  C   A1030B    208.389 124.317  89.738  1.00201.30      A16S
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ATOM	21629	O5*	C	A1030B	210.798	124.526	89.057	1.00201.03	A16S
ATOM	21630	C5*	C	A1030B	210.683	125.951	88.807	1.00201.03	A16S
ATOM	21631	C4*	C	A1030B	212.052	126.604	88.778	1.00201.03	A16S
ATOM	21632	O4*	C	A1030B	212.667	126.497	90.089	1.00201.03	A16S
ATOM	21633	C1*	C	A1030B	214.074	126.357	89.953	1.00201.03	A16S
ATOM	21634	N1	C	A1030B	214.501	125.098	90.608	1.00201.30	A16S
ATOM	21635	C6	C	A1030B	213.688	123.997	90.612	1.00201.30	A16S
ATOM	21636	C2	C	A1030B	215.767	125.044	91.229	1.00201.30	A16S
ATOM	21637	O2	C	A1030B	216.494	126.053	91.217	1.00201.30	A16S
ATOM	21638	N3	C	A1030B	216.161	123.892	91.824	1.00201.30	A16S
ATOM	21639	C4	C	A1030B	215.355	122.825	91.817	1.00201.30	A16S
ATOM	21640	N4	C	A1030B	215.785	121.710	92.413	1.00201.30	A16S
ATOM	21641	C5	C	A1030B	214.071	122.853	91.199	1.00201.30	A16S
ATOM	21642	C2*	C	A1030B	214.408	126.413	88.461	1.00201.03	A16S
ATOM	21643	O2*	C	A1030B	214.822	127.721	88.113	1.00201.03	A16S
ATOM	21644	C3*	C	A1030B	213.080	126.011	87.823	1.00201.03	A16S
ATOM	21645	O3*	C	A1030B	212.958	126.512	86.491	1.00201.03	A16S
ATOM	21646	P	G	A1030C	213.687	125.738	85.279	1.00201.30	A16S
ATOM	21647	O1P	G	A1030C	213.626	126.593	84.065	1.00192.93	A16S
ATOM	21648	O2P	G	A1030C	213.171	124.347	85.218	1.00192.93	A16S
ATOM	21649	O5*	G	A1030C	215.207	125.661	85.745	1.00201.30	A16S
ATOM	21650	C5*	G	A1030C	216.147	126.694	85.399	1.00201.30	A16S
ATOM	21651	C4*	G	A1030C	217.552	126.159	85.496	1.00201.30	A16S
ATOM	21652	O4*	G	A1030C	217.864	125.894	86.889	1.00201.30	A16S
ATOM	21653	C1*	G	A1030C	218.632	124.706	86.994	1.00201.30	A16S
ATOM	21654	N9	G	A1030C	217.861	123.729	87.761	1.00192.93	A16S
ATOM	21655	C4	G	A1030C	218.295	122.493	88.185	1.00192.93	A16S
ATOM	21656	N3	G	A1030C	219.519	121.961	87.969	1.00192.93	A16S
ATOM	21657	C2	G	A1030C	219.629	120.745	88.482	1.00192.93	A16S
ATOM	21658	N2	G	A1030C	220.777	120.063	88.345	1.00192.93	A16S
ATOM	21659	N1	G	A1030C	218.621	120.107	89.163	1.00192.93	A16S
ATOM	21660	C6	G	A1030C	217.354	120.634	89.400	1.00192.93	A16S
ATOM	21661	O6	G	A1030C	216.515	119.971	90.027	1.00192.93	A16S
ATOM	21662	C5	G	A1030C	217.219	121.936	88.845	1.00192.93	A16S
ATOM	21663	N7	G	A1030C	216.135	122.803	88.840	1.00192.93	A16S
ATOM	21664	C8	G	A1030C	216.561	123.851	88.191	1.00192.93	A16S
ATOM	21665	C2*	G	A1030C	218.924	124.216	85.574	1.00201.30	A16S
ATOM	21666	O2*	G	A1030C	220.198	124.665	85.148	1.00201.30	A16S
ATOM	21667	C3*	G	A1030C	217.763	124.824	84.796	1.00201.30	A16S
ATOM	21668	O3*	G	A1030C	218.015	124.957	83.397	1.00201.30	A16S
ATOM	21669	P	A	A1030D	217.220	124.018	82.352	1.00201.30	A16S
ATOM	21670	O1P	A	A1030D	217.840	124.203	81.012	1.00191.85	A16S
ATOM	21671	O2P	A	A1030D	215.761	124.271	82.524	1.00191.85	A16S
ATOM	21672	O5*	A	A1030D	217.535	122.531	82.846	1.00201.30	A16S
ATOM	21673	C5*	A	A1030D	218.890	122.116	83.151	1.00201.30	A16S
ATOM	21674	C4*	A	A1030D	218.889	121.008	84.186	1.00201.30	A16S
ATOM	21675	O4*	A	A1030D	218.166	121.451	85.364	1.00201.30	A16S
ATOM	21676	C1*	A	A1030D	217.468	120.360	85.941	1.00201.30	A16S
ATOM	21677	N9	A	A1030D	216.042	120.700	86.012	1.00191.85	A16S
ATOM	21678	C4	A	A1030D	215.083	120.041	86.747	1.00191.85	A16S
ATOM	21679	N3	A	A1030D	215.253	118.966	87.538	1.00191.85	A16S
ATOM	21680	C2	A	A1030D	214.098	118.603	88.092	1.00191.85	A16S
ATOM	21681	N1	A	A1030D	212.884	119.148	87.956	1.00191.85	A16S
ATOM	21682	C6	A	A1030D	212.745	120.226	87.153	1.00191.85	A16S
ATOM	21683	N6	A	A1030D	211.534	120.769	87.016	1.00191.85	A16S
ATOM	21684	C5	A	A1030D	213.896	120.713	86.508	1.00191.85	A16S
ATOM	21685	N7	A	A1030D	214.100	121.775	85.639	1.00191.85	A16S
ATOM	21686	C8	A	A1030D	215.383	121.725	85.375	1.00191.85	A16S
ATOM	21687	C2*	A	A1030D	217.785	119.110	85.116	1.00201.30	A16S
ATOM	21688	O2*	A	A1030D	218.828	118.384	85.743	1.00201.30	A16S
ATOM	21689	C3*	A	A1030D	218.202	119.714	83.778	1.00201.30	A16S
ATOM	21690	O3*	A	A1030D	219.092	118.855	83.073	1.00201.30	A16S
ATOM	21691	P	G	A1031	218.664	118.263	81.640	1.00201.30	A16S
ATOM	21692	O1P	G	A1031	219.315	116.931	81.504	1.00200.46	A16S
ATOM	21693	O2P	G	A1031	218.905	119.312	80.611	1.00200.46	A16S
ATOM	21694	O5*	G	A1031	217.091	118.034	81.756	1.00201.30	A16S
ATOM	21695	C5*	G	A1031	216.548	117.041	82.646	1.00201.30	A16S
ATOM	21696	C4*	G	A1031	215.043	117.146	82.689	1.00201.30	A16S
ATOM	21697	O4*	G	A1031	214.661	118.421	83.268	1.00201.30	A16S
ATOM	21698	C1*	G	A1031	213.479	118.894	82.646	1.00201.30	A16S
ATOM	21699	N9	G	A1031	213.742	120.222	82.092	1.00200.46	A16S
ATOM	21700	C4	G	A1031	212.847	121.270	82.008	1.00200.46	A16S
ATOM	21701	N3	G	A1031	211.558	121.251	82.416	1.00200.46	A16S
ATOM	21702	C2	G	A1031	210.953	122.410	82.200	1.00200.46	A16S
ATOM	21703	N2	G	A1031	209.663	122.563	82.537	1.00200.46	A16S
ATOM	21704	N1	G	A1031	211.567	123.503	81.636	1.00200.46	A16S
ATOM	21705	C6	G	A1031	212.891	123.549	81.211	1.00200.46	A16S

ATOM	21706	O6	G	A1031	213.345	124.591	80.717	1.00200.46	A16S
ATOM	21707	C5	G	A1031	213.552	122.307	81.429	1.00200.46	A16S
ATOM	21708	N7	G	A1031	214.857	121.921	81.149	1.00200.46	A16S
ATOM	21709	C8	G	A1031	214.924	120.682	81.557	1.00200.46	A16S
ATOM	21710	C2*	G	A1031	213.042	117.853	81.610	1.00201.30	A16S
ATOM	21711	O2*	G	A1031	212.039	117.029	82.173	1.00201.30	A16S
ATOM	21712	C3*	G	A1031	214.346	117.106	81.338	1.00201.30	A16S
ATOM	21713	O3*	G	A1031	214.129	115.759	80.916	1.00201.30	A16S
ATOM	21714	P	G	A1032	214.602	115.285	79.448	1.00201.30	A16S
ATOM	21715	O1P	G	A1032	215.280	113.971	79.603	1.00147.70	A16S
ATOM	21716	O2P	G	A1032	215.318	116.401	78.770	1.00147.70	A16S
ATOM	21717	O5*	G	A1032	213.237	115.040	78.664	1.00201.30	A16S
ATOM	21718	C5*	G	A1032	212.123	114.371	79.293	1.00201.30	A16S
ATOM	21719	C4*	G	A1032	210.855	115.159	79.064	1.00201.30	A16S
ATOM	21720	O4*	G	A1032	210.988	116.453	79.706	1.00201.30	A16S
ATOM	21721	C1*	G	A1032	210.395	117.457	78.899	1.00201.30	A16S
ATOM	21722	N9	G	A1032	211.425	118.441	78.564	1.00147.70	A16S
ATOM	21723	C4	G	A1032	211.233	119.778	78.283	1.00147.70	A16S
ATOM	21724	N3	G	A1032	210.044	120.420	78.232	1.00147.70	A16S
ATOM	21725	C2	G	A1032	210.187	121.707	77.947	1.00147.70	A16S
ATOM	21726	N2	G	A1032	209.103	122.495	77.841	1.00147.70	A16S
ATOM	21727	N1	G	A1032	211.402	122.318	77.740	1.00147.70	A16S
ATOM	21728	C6	G	A1032	212.639	121.680	77.792	1.00147.70	A16S
ATOM	21729	O6	G	A1032	213.679	122.330	77.601	1.00147.70	A16S
ATOM	21730	C5	G	A1032	212.499	120.294	78.083	1.00147.70	A16S
ATOM	21731	N7	G	A1032	213.463	119.303	78.211	1.00147.70	A16S
ATOM	21732	C8	G	A1032	212.783	118.224	78.489	1.00147.70	A16S
ATOM	21733	C2*	G	A1032	209.754	116.769	77.692	1.00201.30	A16S
ATOM	21734	O2*	G	A1032	208.380	116.552	77.955	1.00201.30	A16S
ATOM	21735	C3*	G	A1032	210.555	115.473	77.605	1.00201.30	A16S
ATOM	21736	O3*	G	A1032	209.824	114.414	76.989	1.00201.30	A16S
ATOM	21737	P	G	A1033	210.091	114.048	75.443	1.00201.30	A16S
ATOM	21738	O1P	G	A1033	209.285	112.834	75.135	1.00174.54	A16S
ATOM	21739	O2P	G	A1033	211.561	114.039	75.198	1.00174.54	A16S
ATOM	21740	O5*	G	A1033	209.462	115.271	74.637	1.00201.30	A16S
ATOM	21741	C5*	G	A1033	208.046	115.539	74.688	1.00201.30	A16S
ATOM	21742	C4*	G	A1033	207.775	116.988	74.357	1.00201.30	A16S
ATOM	21743	O4*	G	A1033	208.487	117.826	75.304	1.00201.30	A16S
ATOM	21744	C1*	G	A1033	208.943	119.002	74.656	1.00201.30	A16S
ATOM	21745	N9	G	A1033	210.401	119.046	74.736	1.00174.54	A16S
ATOM	21746	C4	G	A1033	211.187	120.159	74.554	1.00174.54	A16S
ATOM	21747	N3	G	A1033	210.745	121.405	74.276	1.00174.54	A16S
ATOM	21748	C2	G	A1033	211.739	122.266	74.148	1.00174.54	A16S
ATOM	21749	N2	G	A1033	211.474	123.548	73.859	1.00174.54	A16S
ATOM	21750	N1	G	A1033	213.064	121.933	74.290	1.00174.54	A16S
ATOM	21751	C6	G	A1033	213.544	120.658	74.578	1.00174.54	A16S
ATOM	21752	O6	G	A1033	214.763	120.466	74.687	1.00174.54	A16S
ATOM	21753	C5	G	A1033	212.485	119.720	74.710	1.00174.54	A16S
ATOM	21754	N7	G	A1033	212.515	118.359	74.985	1.00174.54	A16S
ATOM	21755	C8	G	A1033	211.260	118.002	74.992	1.00174.54	A16S
ATOM	21756	C2*	G	A1033	208.449	118.959	73.211	1.00201.30	A16S
ATOM	21757	O2*	G	A1033	207.245	119.694	73.102	1.00201.30	A16S
ATOM	21758	C3*	G	A1033	208.256	117.464	72.994	1.00201.30	A16S
ATOM	21759	O3*	G	A1033	207.313	117.196	71.962	1.00201.30	A16S
ATOM	21760	P	G	A1034	207.818	117.053	70.441	1.00201.30	A16S
ATOM	21761	O1P	G	A1034	206.606	116.868	69.598	1.00201.21	A16S
ATOM	21762	O2P	G	A1034	208.902	116.033	70.405	1.00201.21	A16S
ATOM	21763	O5*	G	A1034	208.458	118.476	70.101	1.00201.30	A16S
ATOM	21764	C5*	G	A1034	207.647	119.674	70.078	1.00201.30	A16S
ATOM	21765	C4*	G	A1034	208.513	120.908	69.910	1.00201.30	A16S
ATOM	21766	O4*	G	A1034	209.447	121.006	71.020	1.00201.30	A16S
ATOM	21767	C1*	G	A1034	210.669	121.568	70.571	1.00201.30	A16S
ATOM	21768	N9	G	A1034	211.736	120.596	70.797	1.00201.21	A16S
ATOM	21769	C4	G	A1034	213.031	120.874	71.164	1.00201.21	A16S
ATOM	21770	N3	G	A1034	213.543	122.102	71.398	1.00201.21	A16S
ATOM	21771	C2	G	A1034	214.824	122.048	71.729	1.00201.21	A16S
ATOM	21772	N2	G	A1034	215.495	123.180	71.991	1.00201.21	A16S
ATOM	21773	N1	G	A1034	215.544	120.880	71.824	1.00201.21	A16S
ATOM	21774	C6	G	A1034	215.039	119.605	71.587	1.00201.21	A16S
ATOM	21775	O6	G	A1034	215.778	118.617	71.699	1.00201.21	A16S
ATOM	21776	C5	G	A1034	213.663	119.649	71.231	1.00201.21	A16S
ATOM	21777	N7	G	A1034	212.783	118.621	70.919	1.00201.21	A16S
ATOM	21778	C8	G	A1034	211.654	119.228	70.672	1.00201.21	A16S
ATOM	21779	C2*	G	A1034	210.508	121.915	69.091	1.00201.30	A16S
ATOM	21780	O2*	G	A1034	210.165	123.283	68.970	1.00201.30	A16S
ATOM	21781	C3*	G	A1034	209.392	120.962	68.668	1.00201.30	A16S
ATOM	21782	O3*	G	A1034	208.680	121.427	67.521	1.00201.30	A16S

ATOM	21783	P	A	A1035	208.763	120.600	66.137	1.00200.08	A16S
ATOM	21784	O1P	A	A1035	207.394	120.102	65.840	1.00201.06	A16S
ATOM	21785	O2P	A	A1035	209.895	119.636	66.202	1.00201.06	A16S
ATOM	21786	O5*	A	A1035	209.140	121.702	65.050	1.00200.08	A16S
ATOM	21787	C5*	A	A1035	208.248	122.795	64.754	1.00200.08	A16S
ATOM	21788	C4*	A	A1035	209.031	124.078	64.602	1.00200.08	A16S
ATOM	21789	O4*	A	A1035	209.627	124.422	65.881	1.00200.08	A16S
ATOM	21790	C1*	A	A1035	210.919	124.967	65.680	1.00200.08	A16S
ATOM	21791	N9	A	A1035	211.889	124.078	66.328	1.00201.06	A16S
ATOM	21792	C4	A	A1035	212.711	124.373	67.391	1.00201.06	A16S
ATOM	21793	N3	A	A1035	212.783	125.526	68.078	1.00201.06	A16S
ATOM	21794	C2	A	A1035	213.707	125.445	69.033	1.00201.06	A16S
ATOM	21795	N1	A	A1035	214.511	124.423	69.351	1.00201.06	A16S
ATOM	21796	C6	A	A1035	214.417	123.282	68.635	1.00201.06	A16S
ATOM	21797	N6	A	A1035	215.232	122.269	68.931	1.00201.06	A16S
ATOM	21798	C5	A	A1035	213.468	123.234	67.606	1.00201.06	A16S
ATOM	21799	N7	A	A1035	213.118	122.232	66.713	1.00201.06	A16S
ATOM	21800	C8	A	A1035	212.177	122.777	65.984	1.00201.06	A16S
ATOM	21801	C2*	A	A1035	211.143	125.083	64.168	1.00200.08	A16S
ATOM	21802	O2*	A	A1035	210.809	126.386	63.727	1.00200.08	A16S
ATOM	21803	C3*	A	A1035	210.203	124.006	63.636	1.00200.08	A16S
ATOM	21804	O3*	A	A1035	209.799	124.212	62.285	1.00200.08	A16S
ATOM	21805	P	G	A1036	210.373	123.250	61.126	1.00201.30	A16S
ATOM	21806	O1P	G	A1036	209.542	123.472	59.917	1.00179.28	A16S
ATOM	21807	O2P	G	A1036	210.507	121.873	61.676	1.00179.28	A16S
ATOM	21808	O5*	G	A1036	211.840	123.817	60.844	1.00201.30	A16S
ATOM	21809	C5*	G	A1036	212.050	125.188	60.415	1.00201.30	A16S
ATOM	21810	C4*	G	A1036	213.502	125.584	60.602	1.00201.30	A16S
ATOM	21811	O4*	G	A1036	213.831	125.489	62.010	1.00201.30	A16S
ATOM	21812	C1*	G	A1036	215.132	124.952	62.168	1.00201.30	A16S
ATOM	21813	N9	G	A1036	215.006	123.702	62.917	1.00179.28	A16S
ATOM	21814	C4	G	A1036	216.013	123.001	63.542	1.00179.28	A16S
ATOM	21815	N3	G	A1036	217.325	123.326	63.551	1.00179.28	A16S
ATOM	21816	C2	G	A1036	218.044	122.456	64.244	1.00179.28	A16S
ATOM	21817	N2	G	A1036	219.373	122.616	64.349	1.00179.28	A16S
ATOM	21818	N1	G	A1036	217.515	121.364	64.884	1.00179.28	A16S
ATOM	21819	C6	G	A1036	216.168	121.016	64.894	1.00179.28	A16S
ATOM	21820	O6	G	A1036	215.792	120.022	65.518	1.00179.28	A16S
ATOM	21821	C5	G	A1036	215.390	121.927	64.144	1.00179.28	A16S
ATOM	21822	N7	G	A1036	214.028	121.937	63.886	1.00179.28	A16S
ATOM	21823	C8	G	A1036	213.845	123.001	63.155	1.00179.28	A16S
ATOM	21824	C2*	G	A1036	215.757	124.811	60.777	1.00201.30	A16S
ATOM	21825	O2*	G	A1036	216.547	125.955	60.506	1.00201.30	A16S
ATOM	21826	C3*	G	A1036	214.520	124.703	59.886	1.00201.30	A16S
ATOM	21827	O3*	G	A1036	214.767	125.188	58.564	1.00201.30	A16S
ATOM	21828	P	C	A1037	214.729	124.175	57.312	1.00201.30	A16S
ATOM	21829	O1P	C	A1037	214.966	124.990	56.091	1.00201.30	A16S
ATOM	21830	O2P	C	A1037	213.507	123.330	57.404	1.00201.30	A16S
ATOM	21831	O5*	C	A1037	215.991	123.228	57.533	1.00201.30	A16S
ATOM	21832	C5*	C	A1037	217.337	123.746	57.467	1.00201.30	A16S
ATOM	21833	C4*	C	A1037	218.300	122.767	58.100	1.00201.30	A16S
ATOM	21834	O4*	C	A1037	217.939	122.604	59.496	1.00201.30	A16S
ATOM	21835	C1*	C	A1037	218.103	121.251	59.882	1.00201.30	A16S
ATOM	21836	N1	C	A1037	216.788	120.737	60.315	1.00201.30	A16S
ATOM	21837	C6	C	A1037	215.700	120.793	59.484	1.00201.30	A16S
ATOM	21838	C2	C	A1037	216.665	120.192	61.599	1.00201.30	A16S
ATOM	21839	O2	C	A1037	217.666	120.141	62.334	1.00201.30	A16S
ATOM	21840	N3	C	A1037	215.459	119.732	62.008	1.00201.30	A16S
ATOM	21841	C4	C	A1037	214.405	119.794	61.191	1.00201.30	A16S
ATOM	21842	N4	C	A1037	213.237	119.328	61.641	1.00201.30	A16S
ATOM	21843	C5	C	A1037	214.502	120.337	59.877	1.00201.30	A16S
ATOM	21844	C2*	C	A1037	218.712	120.494	58.699	1.00201.30	A16S
ATOM	21845	O2*	C	A1037	220.116	120.433	58.851	1.00201.30	A16S
ATOM	21846	C3*	C	A1037	218.272	121.357	57.520	1.00201.30	A16S
ATOM	21847	O3*	C	A1037	219.131	121.229	56.386	1.00201.30	A16S
ATOM	21848	P	C	A1038	218.771	120.172	55.222	1.00201.30	A16S
ATOM	21849	O1P	C	A1038	219.543	120.577	54.017	1.00201.08	A16S
ATOM	21850	O2P	C	A1038	217.291	120.034	55.132	1.00201.08	A16S
ATOM	21851	O5*	C	A1038	219.360	118.788	55.756	1.00201.30	A16S
ATOM	21852	C5*	C	A1038	220.780	118.603	55.937	1.00201.30	A16S
ATOM	21853	C4*	C	A1038	221.046	117.430	56.853	1.00201.30	A16S
ATOM	21854	O4*	C	A1038	220.443	117.696	58.146	1.00201.30	A16S
ATOM	21855	C1*	C	A1038	219.947	116.490	58.701	1.00201.30	A16S
ATOM	21856	N1	C	A1038	218.493	116.637	58.933	1.00201.08	A16S
ATOM	21857	C6	C	A1038	217.658	117.059	57.933	1.00201.08	A16S
ATOM	21858	C2	C	A1038	217.975	116.328	60.199	1.00201.08	A16S
ATOM	21859	O2	C	A1038	218.749	115.965	61.096	1.00201.08	A16S

ATOM	21860	N3	C	A1038	216.643	116.438	60.413	1.00201.08	A16S
ATOM	21861	C4	C	A1038	215.839	116.844	59.428	1.00201.08	A16S
ATOM	21862	N4	C	A1038	214.531	116.934	59.686	1.00201.08	A16S
ATOM	21863	C5	C	A1038	216.339	117.175	58.135	1.00201.08	A16S
ATOM	21864	C2*	C	A1038	220.296	115.352	57.741	1.00201.30	A16S
ATOM	21865	O2*	C	A1038	221.490	114.721	58.160	1.00201.30	A16S
ATOM	21866	C3*	C	A1038	220.450	116.098	56.422	1.00201.30	A16S
ATOM	21867	O3*	C	A1038	221.283	115.399	55.506	1.00201.30	A16S
ATOM	21868	P	C	A1039	220.626	114.360	54.470	1.00191.98	A16S
ATOM	21869	O1P	C	A1039	221.624	114.127	53.396	1.00188.66	A16S
ATOM	21870	O2P	C	A1039	219.269	114.848	54.114	1.00188.66	A16S
ATOM	21871	O5*	C	A1039	220.467	113.013	55.310	1.00191.98	A16S
ATOM	21872	C5*	C	A1039	221.612	112.187	55.599	1.00191.98	A16S
ATOM	21873	C4*	C	A1039	221.244	111.079	56.561	1.00191.98	A16S
ATOM	21874	O4*	C	A1039	220.767	111.654	57.805	1.00191.98	A16S
ATOM	21875	C1*	C	A1039	219.802	110.793	58.387	1.00191.98	A16S
ATOM	21876	N1	C	A1039	218.560	111.549	58.648	1.00188.66	A16S
ATOM	21877	C6	C	A1039	218.306	112.738	58.020	1.00188.66	A16S
ATOM	21878	C2	C	A1039	217.636	111.030	59.574	1.00188.66	A16S
ATOM	21879	O2	C	A1039	217.871	109.935	60.114	1.00188.66	A16S
ATOM	21880	N3	C	A1039	216.512	111.731	59.851	1.00188.66	A16S
ATOM	21881	C4	C	A1039	216.286	112.898	59.243	1.00188.66	A16S
ATOM	21882	N4	C	A1039	215.170	113.561	59.559	1.00188.66	A16S
ATOM	21883	C5	C	A1039	217.195	113.439	58.286	1.00188.66	A16S
ATOM	21884	C2*	C	A1039	219.621	109.586	57.465	1.00191.98	A16S
ATOM	21885	O2*	C	A1039	220.392	108.511	57.965	1.00191.98	A16S
ATOM	21886	C3*	C	A1039	220.138	110.124	56.133	1.00191.98	A16S
ATOM	21887	O3*	C	A1039	220.638	109.073	55.308	1.00191.98	A16S
ATOM	21888	P	U	A1040	219.610	108.150	54.477	1.00201.30	A16S
ATOM	21889	O1P	U	A1040	220.425	107.245	53.623	1.00157.71	A16S
ATOM	21890	O2P	U	A1040	218.580	109.022	53.850	1.00157.71	A16S
ATOM	21891	O5*	U	A1040	218.887	107.268	55.590	1.00201.30	A16S
ATOM	21892	C5*	U	A1040	219.593	106.227	56.293	1.00201.30	A16S
ATOM	21893	C4*	U	A1040	218.643	105.463	57.185	1.00201.30	A16S
ATOM	21894	O4*	U	A1040	218.121	106.349	58.208	1.00201.30	A16S
ATOM	21895	C1*	U	A1040	216.776	106.005	58.497	1.00201.30	A16S
ATOM	21896	N1	U	A1040	215.927	107.198	58.321	1.00157.71	A16S
ATOM	21897	C6	U	A1040	216.403	108.337	57.705	1.00157.71	A16S
ATOM	21898	C2	U	A1040	214.625	107.148	58.804	1.00157.71	A16S
ATOM	21899	O2	U	A1040	214.149	106.158	59.340	1.00157.71	A16S
ATOM	21900	N3	U	A1040	213.898	108.301	58.630	1.00157.71	A16S
ATOM	21901	C4	U	A1040	214.320	109.470	58.032	1.00157.71	A16S
ATOM	21902	O4	U	A1040	213.551	110.432	57.974	1.00157.71	A16S
ATOM	21903	C5	U	A1040	215.664	109.440	57.548	1.00157.71	A16S
ATOM	21904	C2*	U	A1040	216.392	104.806	57.623	1.00201.30	A16S
ATOM	21905	O2*	U	A1040	216.505	103.618	58.382	1.00201.30	A16S
ATOM	21906	C3*	U	A1040	217.414	104.896	56.494	1.00201.30	A16S
ATOM	21907	O3*	U	A1040	217.696	103.622	55.923	1.00201.30	A16S
ATOM	21908	P	A	A1041	216.891	103.135	54.621	1.00200.54	A16S
ATOM	21909	O1P	A	A1041	217.509	101.855	54.187	1.00201.30	A16S
ATOM	21910	O2P	A	A1041	216.804	104.270	53.663	1.00201.30	A16S
ATOM	21911	O5*	A	A1041	215.425	102.824	55.168	1.00200.54	A16S
ATOM	21912	C5*	A	A1041	215.183	101.705	56.045	1.00200.54	A16S
ATOM	21913	C4*	A	A1041	213.814	101.816	56.677	1.00200.54	A16S
ATOM	21914	O4*	A	A1041	213.755	103.023	57.478	1.00200.54	A16S
ATOM	21915	C1*	A	A1041	212.451	103.571	57.419	1.00200.54	A16S
ATOM	21916	N9	A	A1041	212.548	104.942	56.920	1.00201.30	A16S
ATOM	21917	C4	A	A1041	211.718	105.985	57.254	1.00201.30	A16S
ATOM	21918	N3	A	A1041	210.666	105.956	58.091	1.00201.30	A16S
ATOM	21919	C2	A	A1041	210.098	107.156	58.171	1.00201.30	A16S
ATOM	21920	N1	A	A1041	210.437	108.296	57.559	1.00201.30	A16S
ATOM	21921	C6	A	A1041	211.499	108.292	56.726	1.00201.30	A16S
ATOM	21922	N6	A	A1041	211.840	109.430	56.117	1.00201.30	A16S
ATOM	21923	C5	A	A1041	212.187	107.080	56.551	1.00201.30	A16S
ATOM	21924	N7	A	A1041	213.291	106.736	55.785	1.00201.30	A16S
ATOM	21925	C8	A	A1041	213.464	105.462	56.038	1.00201.30	A16S
ATOM	21926	C2*	A	A1041	211.587	102.660	56.544	1.00200.54	A16S
ATOM	21927	O2*	A	A1041	210.823	101.801	57.367	1.00200.54	A16S
ATOM	21928	C3*	A	A1041	212.638	101.924	55.717	1.00200.54	A16S
ATOM	21929	O3*	A	A1041	212.184	100.634	55.313	1.00200.54	A16S
ATOM	21930	P	G	A1042	211.435	100.454	53.899	1.00201.30	A16S
ATOM	21931	O1P	G	A1042	211.113	99.004	53.764	1.00199.90	A16S
ATOM	21932	O2P	G	A1042	212.247	101.123	52.849	1.00199.90	A16S
ATOM	21933	O5*	G	A1042	210.073	101.269	54.070	1.00201.30	A16S
ATOM	21934	C5*	G	A1042	208.918	100.652	54.669	1.00201.30	A16S
ATOM	21935	C4*	G	A1042	207.739	101.603	54.692	1.00201.30	A16S
ATOM	21936	O4*	G	A1042	207.974	102.688	55.628	1.00201.30	A16S

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ATOM  21937  C1* G   A1042     207.209 103.817  55.235  1.00201.30      A16S
ATOM  21938  N9  G   A1042     208.072 104.987  55.112  1.00199.90      A16S
ATOM  21939  C4  G   A1042     207.650 106.295  55.156  1.00199.90      A16S
ATOM  21940  N3  G   A1042     206.378 106.711  55.339  1.00199.90      A16S
ATOM  21941  C2  G   A1042     206.279 108.029  55.320  1.00199.90      A16S
ATOM  21942  N2  G   A1042     205.082 108.614  55.483  1.00199.90      A16S
ATOM  21943  N1  G   A1042     207.344 108.874  55.137  1.00199.90      A16S
ATOM  21944  C6  G   A1042     208.662 108.471  54.945  1.00199.90      A16S
ATOM  21945  O6  G   A1042     209.545 109.321  54.781  1.00199.90      A16S
ATOM  21946  C5  G   A1042     208.783 107.052  54.964  1.00199.90      A16S
ATOM  21947  N7  G   A1042     209.899 106.239  54.811  1.00199.90      A16S
ATOM  21948  C8  G   A1042     209.431 105.024  54.911  1.00199.90      A16S
ATOM  21949  C2* G   A1042     206.517 103.484  53.914  1.00201.30      A16S
ATOM  21950  O2* G   A1042     205.170 103.143  54.178  1.00201.30      A16S
ATOM  21951  C3* G   A1042     207.351 102.313  53.402  1.00201.30      A16S
ATOM  21952  O3* G   A1042     206.597 101.493  52.518  1.00201.30      A16S
ATOM  21953  P   C   A1043     206.455 101.915  50.971  1.00170.10      A16S
ATOM  21954  O1P C   A1043     205.713 100.827  50.283  1.00190.65      A16S
ATOM  21955  O2P C   A1043     207.799 102.312  50.473  1.00190.65      A16S
ATOM  21956  O5* C   A1043     205.524 103.211  51.005  1.00170.10      A16S
ATOM  21957  C5* C   A1043     204.170 103.130  51.493  1.00170.10      A16S
ATOM  21958  C4* C   A1043     203.571 104.510  51.665  1.00170.10      A16S
ATOM  21959  O4* C   A1043     204.359 105.291  52.605  1.00170.10      A16S
ATOM  21960  C1* C   A1043     204.256 106.670  52.278  1.00170.10      A16S
ATOM  21961  N1  C   A1043     205.605 107.239  52.075  1.00190.65      A16S
ATOM  21962  C6  C   A1043     206.683 106.437  51.820  1.00190.65      A16S
ATOM  21963  C2  C   A1043     205.763 108.638  52.133  1.00190.65      A16S
ATOM  21964  O2  C   A1043     204.775 109.351  52.382  1.00190.65      A16S
ATOM  21965  N3  C   A1043     206.986 109.175  51.918  1.00190.65      A16S
ATOM  21966  C4  C   A1043     208.027 108.380  51.659  1.00190.65      A16S
ATOM  21967  N4  C   A1043     209.215 108.957  51.444  1.00190.65      A16S
ATOM  21968  C5  C   A1043     207.900 106.959  51.608  1.00190.65      A16S
ATOM  21969  C2* C   A1043     203.384 106.793  51.027  1.00170.10      A16S
ATOM  21970  O2* C   A1043     202.069 107.141  51.409  1.00170.10      A16S
ATOM  21971  C3* C   A1043     203.486 105.392  50.430  1.00170.10      A16S
ATOM  21972  O3* C   A1043     202.353 105.088  49.625  1.00170.10      A16S
ATOM  21973  P   A   A1044     202.293 105.617  48.107  1.00163.97      A16S
ATOM  21974  O1P A   A1044     201.029 105.099  47.522  1.00150.23      A16S
ATOM  21975  O2P A   A1044     203.587 105.312  47.443  1.00150.23      A16S
ATOM  21976  O5* A   A1044     202.169 107.202  48.246  1.00163.97      A16S
ATOM  21977  C5* A   A1044     200.928 107.808  48.662  1.00163.97      A16S
ATOM  21978  C4* A   A1044     200.910 109.282  48.322  1.00163.97      A16S
ATOM  21979  O4* A   A1044     201.779 110.024  49.214  1.00163.97      A16S
ATOM  21980  C1* A   A1044     202.324 111.139  48.527  1.00163.97      A16S
ATOM  21981  N9  A   A1044     203.786 111.050  48.566  1.00150.23      A16S
ATOM  21982  C4  A   A1044     204.663 112.088  48.351  1.00150.23      A16S
ATOM  21983  N3  A   A1044     204.361 113.369  48.077  1.00150.23      A16S
ATOM  21984  C2  A   A1044     205.469 114.090  47.927  1.00150.23      A16S
ATOM  21985  N1  A   A1044     206.750 113.707  48.013  1.00150.23      A16S
ATOM  21986  C6  A   A1044     207.021 112.412  48.291  1.00150.23      A16S
ATOM  21987  N6  A   A1044     208.299 112.030  48.380  1.00150.23      A16S
ATOM  21988  C5  A   A1044     205.929 111.542  48.472  1.00150.23      A16S
ATOM  21989  N7  A   A1044     205.854 110.187  48.760  1.00150.23      A16S
ATOM  21990  C8  A   A1044     204.566 109.945  48.807  1.00150.23      A16S
ATOM  21991  C2* A   A1044     201.774 111.124  47.099  1.00163.97      A16S
ATOM  21992  O2* A   A1044     200.665 111.996  47.004  1.00163.97      A16S
ATOM  21993  C3* A   A1044     201.380 109.663  46.931  1.00163.97      A16S
ATOM  21994  O3* A   A1044     200.364 109.511  45.955  1.00163.97      A16S
ATOM  21995  P   C   A1045     200.748 108.972  44.491  1.00135.30      A16S
ATOM  21996  O1P C   A1045     200.017 109.827  43.513  1.00128.89      A16S
ATOM  21997  O2P C   A1045     200.556 107.496  44.473  1.00128.89      A16S
ATOM  21998  O5* C   A1045     202.309 109.262  44.365  1.00135.30      A16S
ATOM  21999  C5* C   A1045     202.838 110.068  43.297  1.00135.30      A16S
ATOM  22000  C4* C   A1045     203.808 111.083  43.849  1.00135.30      A16S
ATOM  22001  O4* C   A1045     204.716 110.423  44.762  1.00135.30      A16S
ATOM  22002  C1* C   A1045     206.021 110.943  44.602  1.00135.30      A16S
ATOM  22003  N1  C   A1045     206.883 109.838  44.151  1.00128.89      A16S
ATOM  22004  C6  C   A1045     206.330 108.652  43.752  1.00128.89      A16S
ATOM  22005  C2  C   A1045     208.277 110.005  44.144  1.00128.89      A16S
ATOM  22006  O2  C   A1045     208.761 111.095  44.496  1.00128.89      A16S
ATOM  22007  N3  C   A1045     209.058 108.971  43.750  1.00128.89      A16S
ATOM  22008  C4  C   A1045     208.497 107.815  43.374  1.00128.89      A16S
ATOM  22009  N4  C   A1045     209.296 106.819  43.003  1.00128.89      A16S
ATOM  22010  C5  C   A1045     207.089 107.628  43.364  1.00128.89      A16S
ATOM  22011  C2* C   A1045     205.936 112.115  43.624  1.00135.30      A16S
ATOM  22012  O2* C   A1045     205.755 113.302  44.364  1.00135.30      A16S
ATOM  22013  C3* C   A1045     204.692 111.760  42.819  1.00135.30      A16S
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ATOM  22014  O3* C   A1045     204.052 112.918  42.295  1.00135.30      A16S
ATOM  22015  P    A   A1046     204.589 113.573  40.930  1.00108.94      A16S
ATOM  22016  O1P A   A1046     203.933 114.905  40.783  1.00 62.20      A16S
ATOM  22017  O2P A   A1046     204.484 112.562  39.834  1.00 62.20      A16S
ATOM  22018  O5* A   A1046     206.134 113.813  41.217  1.00108.94      A16S
ATOM  22019  C5* A   A1046     207.095 113.766  40.160  1.00108.94      A16S
ATOM  22020  C4* A   A1046     208.476 113.905  40.729  1.00108.94      A16S
ATOM  22021  O4* A   A1046     208.764 112.764  41.575  1.00108.94      A16S
ATOM  22022  C1* A   A1046     210.141 112.453  41.491  1.00108.94      A16S
ATOM  22023  N9   A   A1046     210.279 111.103  40.957  1.00 62.20      A16S
ATOM  22024  C4   A   A1046     211.456 110.411  40.843  1.00 62.20      A16S
ATOM  22025  N3   A   A1046     212.680 110.827  41.207  1.00 62.20      A16S
ATOM  22026  C2   A   A1046     213.591 109.896  40.932  1.00 62.20      A16S
ATOM  22027  N1   A   A1046     213.426 108.685  40.375  1.00 62.20      A16S
ATOM  22028  C6   A   A1046     212.180 108.299  40.022  1.00 62.20      A16S
ATOM  22029  N6   A   A1046     212.017 107.095  39.466  1.00 62.20      A16S
ATOM  22030  C5   A   A1046     211.127 109.198  40.263  1.00 62.20      A16S
ATOM  22031  N7   A   A1046     209.764 109.124  40.025  1.00 62.20      A16S
ATOM  22032  C8   A   A1046     209.308 110.275  40.458  1.00 62.20      A16S
ATOM  22033  C2* A   A1046     210.791 113.479  40.566  1.00108.94      A16S
ATOM  22034  O2* A   A1046     211.289 114.534  41.357  1.00108.94      A16S
ATOM  22035  C3* A   A1046     209.607 113.920  39.723  1.00108.94      A16S
ATOM  22036  O3* A   A1046     209.785 115.218  39.180  1.00108.94      A16S
ATOM  22037  P    G   A1047     209.778 115.412  37.585  1.00 82.18      A16S
ATOM  22038  O1P G   A1047     210.248 116.801  37.318  1.00 73.00      A16S
ATOM  22039  O2P G   A1047     208.459 114.966  37.062  1.00 73.00      A16S
ATOM  22040  O5* G   A1047     210.864 114.370  37.062  1.00 82.18      A16S
ATOM  22041  C5* G   A1047     212.249 114.524  37.395  1.00 82.18      A16S
ATOM  22042  C4* G   A1047     213.024 113.304  36.970  1.00 82.18      A16S
ATOM  22043  O4* G   A1047     212.598 112.150  37.746  1.00 82.18      A16S
ATOM  22044  C1* G   A1047     212.646 110.982  36.939  1.00 82.18      A16S
ATOM  22045  N9   G   A1047     211.285 110.497  36.754  1.00 73.00      A16S
ATOM  22046  C4   G   A1047     210.920 109.253  36.306  1.00 73.00      A16S
ATOM  22047  N3   G   A1047     211.760 108.240  36.012  1.00 73.00      A16S
ATOM  22048  C2   G   A1047     211.114 107.174  35.567  1.00 73.00      A16S
ATOM  22049  N2   G   A1047     211.798 106.069  35.227  1.00 73.00      A16S
ATOM  22050  N1   G   A1047     209.752 107.109  35.424  1.00 73.00      A16S
ATOM  22051  C6   G   A1047     208.867 108.137  35.724  1.00 73.00      A16S
ATOM  22052  O6   G   A1047     207.651 107.972  35.557  1.00 73.00      A16S
ATOM  22053  C5   G   A1047     209.549 109.288  36.205  1.00 73.00      A16S
ATOM  22054  N7   G   A1047     209.056 110.520  36.611  1.00 73.00      A16S
ATOM  22055  C8   G   A1047     210.120 111.201  36.937  1.00 73.00      A16S
ATOM  22056  C2* G   A1047     213.200 111.394  35.578  1.00 82.18      A16S
ATOM  22057  O2* G   A1047     214.593 111.156  35.522  1.00 82.18      A16S
ATOM  22058  C3* G   A1047     212.815 112.867  35.533  1.00 82.18      A16S
ATOM  22059  O3* G   A1047     213.537 113.633  34.583  1.00 82.18      A16S
ATOM  22060  P    G   A1048     212.886 113.884  33.136  1.00 58.29      A16S
ATOM  22061  O1P G   A1048     213.772 114.809  32.383  1.00 80.59      A16S
ATOM  22062  O2P G   A1048     211.465 114.254  33.330  1.00 80.59      A16S
ATOM  22063  O5* G   A1048     212.927 112.432  32.480  1.00 58.29      A16S
ATOM  22064  C5* G   A1048     214.168 111.712  32.416  1.00 58.29      A16S
ATOM  22065  C4* G   A1048     214.027 110.435  31.619  1.00 58.29      A16S
ATOM  22066  O4* G   A1048     213.428 109.389  32.435  1.00 58.29      A16S
ATOM  22067  C1* G   A1048     212.645 108.532  31.615  1.00 58.29      A16S
ATOM  22068  N9   G   A1048     211.236 108.770  31.920  1.00 80.59      A16S
ATOM  22069  C4   G   A1048     210.189 107.935  31.636  1.00 80.59      A16S
ATOM  22070  N3   G   A1048     210.284 106.693  31.120  1.00 80.59      A16S
ATOM  22071  C2   G   A1048     209.097 106.162  30.899  1.00 80.59      A16S
ATOM  22072  N2   G   A1048     209.004 104.924  30.395  1.00 80.59      A16S
ATOM  22073  N1   G   A1048     207.912 106.805  31.155  1.00 80.59      A16S
ATOM  22074  C6   G   A1048     207.795 108.086  31.684  1.00 80.59      A16S
ATOM  22075  O6   G   A1048     206.677 108.586  31.859  1.00 80.59      A16S
ATOM  22076  C5   G   A1048     209.056 108.655  31.942  1.00 80.59      A16S
ATOM  22077  N7   G   A1048     209.385 109.889  32.475  1.00 80.59      A16S
ATOM  22078  C8   G   A1048     210.687 109.907  32.462  1.00 80.59      A16S
ATOM  22079  C2* G   A1048     212.880 108.978  30.168  1.00 58.29      A16S
ATOM  22080  O2* G   A1048     213.961 108.244  29.616  1.00 58.29      A16S
ATOM  22081  C3* G   A1048     213.168 110.463  30.369  1.00 58.29      A16S
ATOM  22082  O3* G   A1048     213.743 111.133  29.263  1.00 58.29      A16S
ATOM  22083  P    U   A1049     213.001 112.442  28.676  1.00 67.72      A16S
ATOM  22084  O1P U   A1049     213.659 113.649  29.238  1.00 64.57      A16S
ATOM  22085  O2P U   A1049     211.538 112.275  28.838  1.00 64.57      A16S
ATOM  22086  O5* U   A1049     213.317 112.428  27.116  1.00 67.72      A16S
ATOM  22087  C5* U   A1049     213.153 111.233  26.322  1.00 67.72      A16S
ATOM  22088  C4* U   A1049     214.442 110.916  25.613  1.00 67.72      A16S
ATOM  22089  O4* U   A1049     214.783 112.020  24.756  1.00 67.72      A16S
ATOM  22090  C1* U   A1049     216.184 112.155  24.699  1.00 67.72      A16S
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ATOM  22091  N1  U  A1049     216.521 113.584  24.633  1.00 64.57      A16S
ATOM  22092  C6  U  A1049     215.588 114.550  24.929  1.00 64.57      A16S
ATOM  22093  C2  U  A1049     217.801 113.932  24.223  1.00 64.57      A16S
ATOM  22094  O2  U  A1049     218.677 113.110  23.990  1.00 64.57      A16S
ATOM  22095  N3  U  A1049     218.019 115.280  24.094  1.00 64.57      A16S
ATOM  22096  C4  U  A1049     217.114 116.292  24.338  1.00 64.57      A16S
ATOM  22097  O4  U  A1049     217.426 117.453  24.079  1.00 64.57      A16S
ATOM  22098  C5  U  A1049     215.832 115.853  24.798  1.00 64.57      A16S
ATOM  22099  C2* U  A1049     216.829 111.302  25.794  1.00 67.72      A16S
ATOM  22100  O2* U  A1049     217.660 110.321  25.228  1.00 67.72      A16S
ATOM  22101  C3* U  A1049     215.620 110.766  26.558  1.00 67.72      A16S
ATOM  22102  O3* U  A1049     215.707 109.400  26.984  1.00 67.72      A16S
ATOM  22103  P   G  A1050     215.930 108.215  25.907  1.00 80.89      A16S
ATOM  22104  O1P G  A1050     217.090 107.397  26.354  1.00 64.09      A16S
ATOM  22105  O2P G  A1050     215.915 108.764  24.534  1.00 64.09      A16S
ATOM  22106  O5* G  A1050     214.627 107.308  26.047  1.00 80.89      A16S
ATOM  22107  C5* G  A1050     214.700 105.910  25.720  1.00 80.89      A16S
ATOM  22108  C4* G  A1050     213.349 105.346  25.310  1.00 80.89      A16S
ATOM  22109  O4* G  A1050     212.500 105.132  26.465  1.00 80.89      A16S
ATOM  22110  C1* G  A1050     211.159 105.008  26.028  1.00 80.89      A16S
ATOM  22111  N9  G  A1050     210.313 106.001  26.676  1.00 64.09      A16S
ATOM  22112  C4  G  A1050     208.946 105.977  26.646  1.00 64.09      A16S
ATOM  22113  N3  G  A1050     208.197 105.010  26.085  1.00 64.09      A16S
ATOM  22114  C2  G  A1050     206.917 105.285  26.142  1.00 64.09      A16S
ATOM  22115  N2  G  A1050     206.040 104.424  25.608  1.00 64.09      A16S
ATOM  22116  N1  G  A1050     206.404 106.423  26.718  1.00 64.09      A16S
ATOM  22117  C6  G  A1050     207.157 107.431  27.309  1.00 64.09      A16S
ATOM  22118  O6  G  A1050     206.593 108.419  27.793  1.00 64.09      A16S
ATOM  22119  C5  G  A1050     208.542 107.145  27.249  1.00 64.09      A16S
ATOM  22120  N7  G  A1050     209.638 107.870  27.700  1.00 64.09      A16S
ATOM  22121  C8  G  A1050     210.669 107.145  27.349  1.00 64.09      A16S
ATOM  22122  C2* G  A1050     211.131 105.312  24.534  1.00 80.89      A16S
ATOM  22123  O2* G  A1050     211.115 104.103  23.809  1.00 80.89      A16S
ATOM  22124  C3* G  A1050     212.429 106.078  24.341  1.00 80.89      A16S
ATOM  22125  O3* G  A1050     212.773 106.004  22.966  1.00 80.89      A16S
ATOM  22126  P   C  A1051     211.973 106.920  21.910  1.00 66.36      A16S
ATOM  22127  O1P C  A1051     212.738 106.947  20.637  1.00 69.63      A16S
ATOM  22128  O2P C  A1051     211.625 108.205  22.589  1.00 69.63      A16S
ATOM  22129  O5* C  A1051     210.601 106.147  21.662  1.00 66.36      A16S
ATOM  22130  C5* C  A1051     210.565 104.874  20.989  1.00 66.36      A16S
ATOM  22131  C4* C  A1051     209.130 104.450  20.741  1.00 66.36      A16S
ATOM  22132  O4* C  A1051     208.414 104.400  22.006  1.00 66.36      A16S
ATOM  22133  C1* C  A1051     207.060 104.784  21.809  1.00 66.36      A16S
ATOM  22134  N1  C  A1051     206.778 105.995  22.604  1.00 69.63      A16S
ATOM  22135  C6  C  A1051     207.786 106.728  23.167  1.00 69.63      A16S
ATOM  22136  C2  C  A1051     205.442 106.393  22.768  1.00 69.63      A16S
ATOM  22137  O2  C  A1051     204.540 105.705  22.257  1.00 69.63      A16S
ATOM  22138  N3  C  A1051     205.167 107.512  23.480  1.00 69.63      A16S
ATOM  22139  C4  C  A1051     206.159 108.216  24.026  1.00 69.63      A16S
ATOM  22140  N4  C  A1051     205.839 109.307  24.727  1.00 69.63      A16S
ATOM  22141  C5  C  A1051     207.524 107.833  23.879  1.00 69.63      A16S
ATOM  22142  C2* C  A1051     206.868 105.060  20.321  1.00 66.36      A16S
ATOM  22143  O2* C  A1051     206.346 103.930  19.654  1.00 66.36      A16S
ATOM  22144  C3* C  A1051     208.287 105.389  19.890  1.00 66.36      A16S
ATOM  22145  O3* C  A1051     208.438 105.225  18.491  1.00 66.36      A16S
ATOM  22146  P   U  A1052     208.122 106.472  17.528  1.00 75.35      A16S
ATOM  22147  O1P U  A1052     208.340 106.015  16.136  1.00 68.08      A16S
ATOM  22148  O2P U  A1052     208.843 107.673  18.036  1.00 68.08      A16S
ATOM  22149  O5* U  A1052     206.573 106.759  17.744  1.00 75.35      A16S
ATOM  22150  C5* U  A1052     205.571 105.840  17.289  1.00 75.35      A16S
ATOM  22151  C4* U  A1052     204.209 106.418  17.545  1.00 75.35      A16S
ATOM  22152  O4* U  A1052     204.067 106.636  18.971  1.00 75.35      A16S
ATOM  22153  C1* U  A1052     203.260 107.780  19.199  1.00 75.35      A16S
ATOM  22154  N1  U  A1052     203.949 108.719  20.109  1.00 68.08      A16S
ATOM  22155  C6  U  A1052     205.314 108.720  20.269  1.00 68.08      A16S
ATOM  22156  C2  U  A1052     203.161 109.633  20.799  1.00 68.08      A16S
ATOM  22157  O2  U  A1052     201.943 109.652  20.730  1.00 68.08      A16S
ATOM  22158  N3  U  A1052     203.849 110.526  21.578  1.00 68.08      A16S
ATOM  22159  C4  U  A1052     205.204 110.602  21.758  1.00 68.08      A16S
ATOM  22160  O4  U  A1052     205.673 111.546  22.402  1.00 68.08      A16S
ATOM  22161  C5  U  A1052     205.951 109.604  21.051  1.00 68.08      A16S
ATOM  22162  C2* U  A1052     202.884 108.371  17.838  1.00 75.35      A16S
ATOM  22163  O2* U  A1052     201.579 107.939  17.497  1.00 75.35      A16S
ATOM  22164  C3* U  A1052     203.956 107.786  16.924  1.00 75.35      A16S
ATOM  22165  O3* U  A1052     203.471 107.666  15.588  1.00 75.35      A16S
ATOM  22166  P   G  A1053     204.199 108.451  14.379  1.00 51.46      A16S
ATOM  22167  O1P G  A1053     203.265 108.378  13.225  1.00 59.05      A16S
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ATOM  22168  O2P G   A1053     205.596 107.962  14.227  1.00 59.05      A16S
ATOM  22169  O5* G   A1053     204.253 109.977  14.819  1.00 51.46      A16S
ATOM  22170  C5* G   A1053     204.824 110.938  13.929  1.00 51.46      A16S
ATOM  22171  C4* G   A1053     204.024 112.207  13.931  1.00 51.46      A16S
ATOM  22172  O4* G   A1053     204.423 113.011  15.070  1.00 51.46      A16S
ATOM  22173  C1* G   A1053     204.851 114.276  14.613  1.00 51.46      A16S
ATOM  22174  N9  G   A1053     205.896 114.801  15.483  1.00 59.05      A16S
ATOM  22175  C4  G   A1053     205.864 116.030  16.074  1.00 59.05      A16S
ATOM  22176  N3  G   A1053     204.866 116.923  15.958  1.00 59.05      A16S
ATOM  22177  C2  G   A1053     205.104 118.015  16.641  1.00 59.05      A16S
ATOM  22178  N2  G   A1053     204.199 118.998  16.641  1.00 59.05      A16S
ATOM  22179  N1  G   A1053     206.242 118.223  17.380  1.00 59.05      A16S
ATOM  22180  C6  G   A1053     207.286 117.314  17.517  1.00 59.05      A16S
ATOM  22181  O6  G   A1053     208.268 117.597  18.224  1.00 59.05      A16S
ATOM  22182  C5  G   A1053     207.037 116.130  16.785  1.00 59.05      A16S
ATOM  22183  N7  G   A1053     207.797 114.975  16.645  1.00 59.05      A16S
ATOM  22184  C8  G   A1053     207.079 114.212  15.866  1.00 59.05      A16S
ATOM  22185  C2* G   A1053     205.289 114.084  13.169  1.00 51.46      A16S
ATOM  22186  O2* G   A1053     205.229 115.310  12.468  1.00 51.46      A16S
ATOM  22187  C3* G   A1053     204.262 113.071  12.694  1.00 51.46      A16S
ATOM  22188  O3* G   A1053     203.057 113.752  12.337  1.00 51.46      A16S
ATOM  22189  P   C   A1054     202.485 113.627  10.848  1.00 58.55      A16S
ATOM  22190  O1P C   A1054     203.517 114.158   9.933  1.00 86.08      A16S
ATOM  22191  O2P C   A1054     201.120 114.188  10.810  1.00 86.08      A16S
ATOM  22192  O5* C   A1054     202.384 112.056  10.656  1.00 58.55      A16S
ATOM  22193  C5* C   A1054     202.177 111.196  11.795  1.00 58.55      A16S
ATOM  22194  C4* C   A1054     200.747 111.282  12.249  1.00 58.55      A16S
ATOM  22195  O4* C   A1054     199.914 110.889  11.134  1.00 58.55      A16S
ATOM  22196  C1* C   A1054     198.886 110.037  11.579  1.00 58.55      A16S
ATOM  22197  N1  C   A1054     199.166 108.693  11.033  1.00 86.08      A16S
ATOM  22198  C6  C   A1054     200.128 107.896  11.590  1.00 86.08      A16S
ATOM  22199  C2  C   A1054     198.445 108.251   9.915  1.00 86.08      A16S
ATOM  22200  O2  C   A1054     197.565 108.979   9.440  1.00 86.08      A16S
ATOM  22201  N3  C   A1054     198.728 107.043   9.383  1.00 86.08      A16S
ATOM  22202  C4  C   A1054     199.684 106.284   9.923  1.00 86.08      A16S
ATOM  22203  N4  C   A1054     199.949 105.107   9.354  1.00 86.08      A16S
ATOM  22204  C5  C   A1054     200.418 106.699  11.072  1.00 86.08      A16S
ATOM  22205  C2* C   A1054     198.880 110.130  13.102  1.00 58.55      A16S
ATOM  22206  O2* C   A1054     198.151 111.289  13.461  1.00 58.55      A16S
ATOM  22207  C3* C   A1054     200.347 110.367  13.396  1.00 58.55      A16S
ATOM  22208  O3* C   A1054     200.493 111.018  14.652  1.00 58.55      A16S
ATOM  22209  P   A   A1055     200.098 110.243  16.007  1.00 43.51      A16S
ATOM  22210  O1P A   A1055     201.095 110.610  17.035  1.00 60.16      A16S
ATOM  22211  O2P A   A1055     199.841 108.802  15.706  1.00 60.16      A16S
ATOM  22212  O5* A   A1055     198.745 110.944  16.455  1.00 43.51      A16S
ATOM  22213  C5* A   A1055     197.465 110.443  16.035  1.00 43.51      A16S
ATOM  22214  C4* A   A1055     196.367 111.222  16.703  1.00 43.51      A16S
ATOM  22215  O4* A   A1055     196.435 110.971  18.135  1.00 43.51      A16S
ATOM  22216  C1* A   A1055     196.209 112.174  18.849  1.00 43.51      A16S
ATOM  22217  N9  A   A1055     197.465 112.559  19.502  1.00 60.16      A16S
ATOM  22218  C4  A   A1055     197.721 113.723  20.188  1.00 60.16      A16S
ATOM  22219  N3  A   A1055     196.870 114.729  20.433  1.00 60.16      A16S
ATOM  22220  C2  A   A1055     197.474 115.701  21.123  1.00 60.16      A16S
ATOM  22221  N1  A   A1055     198.740 115.785  21.542  1.00 60.16      A16S
ATOM  22222  C6  A   A1055     199.576 114.770  21.252  1.00 60.16      A16S
ATOM  22223  N6  A   A1055     200.858 114.881  21.611  1.00 60.16      A16S
ATOM  22224  C5  A   A1055     199.047 113.660  20.559  1.00 60.16      A16S
ATOM  22225  N7  A   A1055     199.614 112.467  20.141  1.00 60.16      A16S
ATOM  22226  C8  A   A1055     198.636 111.851  19.526  1.00 60.16      A16S
ATOM  22227  C2* A   A1055     195.765 113.209  17.818  1.00 43.51      A16S
ATOM  22228  O2* A   A1055     194.370 113.074  17.654  1.00 43.51      A16S
ATOM  22229  C3* A   A1055     196.498 112.728  16.580  1.00 43.51      A16S
ATOM  22230  O3* A   A1055     195.976 113.262  15.375  1.00 43.51      A16S
ATOM  22231  P   U   A1056     196.665 114.579  14.749  1.00 38.01      A16S
ATOM  22232  O1P U   A1056     195.757 115.221  13.757  1.00 57.20      A16S
ATOM  22233  O2P U   A1056     198.060 114.230  14.349  1.00 57.20      A16S
ATOM  22234  O5* U   A1056     196.790 115.565  15.996  1.00 38.01      A16S
ATOM  22235  C5* U   A1056     197.504 116.802  15.864  1.00 38.01      A16S
ATOM  22236  C4* U   A1056     197.421 117.604  17.134  1.00 38.01      A16S
ATOM  22237  O4* U   A1056     197.996 116.838  18.222  1.00 38.01      A16S
ATOM  22238  C1* U   A1056     198.715 117.704  19.090  1.00 38.01      A16S
ATOM  22239  N1  U   A1056     200.118 117.263  19.118  1.00 57.20      A16S
ATOM  22240  C6  U   A1056     200.502 116.076  18.543  1.00 57.20      A16S
ATOM  22241  C2  U   A1056     201.044 118.096  19.711  1.00 57.20      A16S
ATOM  22242  O2  U   A1056     200.736 119.131  20.282  1.00 57.20      A16S
ATOM  22243  N3  U   A1056     202.346 117.673  19.609  1.00 57.20      A16S
ATOM  22244  C4  U   A1056     202.805 116.520  18.997  1.00 57.20      A16S
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ATOM  22245  O4  U   A1056     204.016 116.382  18.796  1.00 57.20      A16S
ATOM  22246  C5  U   A1056     201.775 115.685  18.469  1.00 57.20      A16S
ATOM  22247  C2* U   A1056     198.558 119.133  18.562  1.00 38.01      A16S
ATOM  22248  O2* U   A1056     197.543 119.803  19.272  1.00 38.01      A16S
ATOM  22249  C3* U   A1056     198.229 118.887  17.098  1.00 38.01      A16S
ATOM  22250  O3* U   A1056     197.503 119.949  16.514  1.00 38.01      A16S
ATOM  22251  P   G   A1057     198.295 121.217  15.923  1.00 43.56      A16S
ATOM  22252  O1P G   A1057     197.311 122.134  15.280  1.00 78.65      A16S
ATOM  22253  O2P G   A1057     199.453 120.722  15.136  1.00 78.65      A16S
ATOM  22254  O5* G   A1057     198.872 121.944  17.217  1.00 43.56      A16S
ATOM  22255  C5* G   A1057     197.990 122.528  18.190  1.00 43.56      A16S
ATOM  22256  C4* G   A1057     198.777 123.355  19.168  1.00 43.56      A16S
ATOM  22257  O4* G   A1057     199.712 122.496  19.860  1.00 43.56      A16S
ATOM  22258  C1* G   A1057     200.884 123.231  20.170  1.00 43.56      A16S
ATOM  22259  N9  G   A1057     202.041 122.496  19.679  1.00 78.65      A16S
ATOM  22260  C4  G   A1057     203.320 122.578  20.167  1.00 78.65      A16S
ATOM  22261  N3  G   A1057     203.729 123.353  21.186  1.00 78.65      A16S
ATOM  22262  C2  G   A1057     205.009 123.191  21.433  1.00 78.65      A16S
ATOM  22263  N2  G   A1057     205.591 123.881  22.412  1.00 78.65      A16S
ATOM  22264  N1  G   A1057     205.817 122.340  20.738  1.00 78.65      A16S
ATOM  22265  C6  G   A1057     205.414 121.538  19.685  1.00 78.65      A16S
ATOM  22266  O6  G   A1057     206.226 120.807  19.123  1.00 78.65      A16S
ATOM  22267  C5  G   A1057     204.055 121.699  19.409  1.00 78.65      A16S
ATOM  22268  N7  G   A1057     203.259 121.085  18.457  1.00 78.65      A16S
ATOM  22269  C8  G   A1057     202.074 121.588  18.653  1.00 78.65      A16S
ATOM  22270  C2* G   A1057     200.756 124.631  19.571  1.00 43.56      A16S
ATOM  22271  O2* G   A1057     200.459 125.561  20.589  1.00 43.56      A16S
ATOM  22272  C3* G   A1057     199.641 124.439  18.552  1.00 43.56      A16S
ATOM  22273  O3* G   A1057     198.905 125.627  18.384  1.00 43.56      A16S
ATOM  22274  P   G   A1058     199.389 126.702  17.308  1.00 54.28      A16S
ATOM  22275  O1P G   A1058     198.733 127.992  17.622  1.00 61.78      A16S
ATOM  22276  O2P G   A1058     199.234 126.118  15.956  1.00 61.78      A16S
ATOM  22277  O5* G   A1058     200.944 126.840  17.601  1.00 54.28      A16S
ATOM  22278  C5* G   A1058     201.401 127.597  18.717  1.00 54.28      A16S
ATOM  22279  C4* G   A1058     202.902 127.576  18.786  1.00 54.28      A16S
ATOM  22280  O4* G   A1058     203.373 126.255  19.139  1.00 54.28      A16S
ATOM  22281  C1* G   A1058     204.648 126.049  18.566  1.00 54.28      A16S
ATOM  22282  N9  G   A1058     204.608 124.837  17.755  1.00 61.78      A16S
ATOM  22283  C4  G   A1058     205.661 123.995  17.487  1.00 61.78      A16S
ATOM  22284  N3  G   A1058     206.917 124.119  17.961  1.00 61.78      A16S
ATOM  22285  C2  G   A1058     207.702 123.154  17.519  1.00 61.78      A16S
ATOM  22286  N2  G   A1058     208.982 123.098  17.915  1.00 61.78      A16S
ATOM  22287  N1  G   A1058     207.289 122.165  16.660  1.00 61.78      A16S
ATOM  22288  C6  G   A1058     206.007 122.034  16.151  1.00 61.78      A16S
ATOM  22289  O6  G   A1058     205.746 121.126  15.361  1.00 61.78      A16S
ATOM  22290  C5  G   A1058     205.154 123.037  16.638  1.00 61.78      A16S
ATOM  22291  N7  G   A1058     203.810 123.255  16.399  1.00 61.78      A16S
ATOM  22292  C8  G   A1058     203.528 124.328  17.085  1.00 61.78      A16S
ATOM  22293  C2* G   A1058     205.006 127.297  17.749  1.00 54.28      A16S
ATOM  22294  O2* G   A1058     205.857 128.126  18.517  1.00 54.28      A16S
ATOM  22295  C3* G   A1058     203.641 127.931  17.512  1.00 54.28      A16S
ATOM  22296  O3* G   A1058     203.729 129.346  17.371  1.00 54.28      A16S
ATOM  22297  P   C   A1059     203.914 129.996  15.912  1.00 53.24      A16S
ATOM  22298  O1P C   A1059     204.056 131.473  16.061  1.00 78.16      A16S
ATOM  22299  O2P C   A1059     202.857 129.447  15.025  1.00 78.16      A16S
ATOM  22300  O5* C   A1059     205.321 129.425  15.440  1.00 53.24      A16S
ATOM  22301  C5* C   A1059     206.543 129.863  16.069  1.00 53.24      A16S
ATOM  22302  C4* C   A1059     207.733 129.098  15.521  1.00 53.24      A16S
ATOM  22303  O4* C   A1059     207.718 127.726  16.003  1.00 53.24      A16S
ATOM  22304  C1* C   A1059     208.201 126.864  14.994  1.00 53.24      A16S
ATOM  22305  N1  C   A1059     207.094 125.991  14.561  1.00 78.16      A16S
ATOM  22306  C6  C   A1059     205.819 126.474  14.442  1.00 78.16      A16S
ATOM  22307  C2  C   A1059     207.369 124.659  14.254  1.00 78.16      A16S
ATOM  22308  O2  C   A1059     208.530 124.242  14.386  1.00 78.16      A16S
ATOM  22309  N3  C   A1059     206.366 123.856  13.820  1.00 78.16      A16S
ATOM  22310  C4  C   A1059     205.129 124.342  13.697  1.00 78.16      A16S
ATOM  22311  N4  C   A1059     204.171 123.516  13.265  1.00 78.16      A16S
ATOM  22312  C5  C   A1059     204.818 125.694  14.014  1.00 78.16      A16S
ATOM  22313  C2* C   A1059     208.688 127.743  13.845  1.00 53.24      A16S
ATOM  22314  O2* C   A1059     210.039 128.078  14.066  1.00 53.24      A16S
ATOM  22315  C3* C   A1059     207.808 128.968  14.009  1.00 53.24      A16S
ATOM  22316  O3* C   A1059     208.344 130.117  13.369  1.00 53.24      A16S
ATOM  22317  P   C   A1060     207.900 130.456  11.857  1.00 50.02      A16S
ATOM  22318  O1P C   A1060     208.453 131.795  11.488  1.00 69.91      A16S
ATOM  22319  O2P C   A1060     206.425 130.223  11.764  1.00 69.91      A16S
ATOM  22320  O5* C   A1060     208.666 129.344  10.996  1.00 50.02      A16S
ATOM  22321  C5* C   A1060     210.088 129.136  11.165  1.00 50.02      A16S
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ATOM  22322  C4* C   A1060     210.569 127.906  10.416  1.00 50.02      A16S
ATOM  22323  O4* C   A1060     210.080 126.689  11.031  1.00 50.02      A16S
ATOM  22324  C1* C   A1060     209.940 125.681  10.041  1.00 50.02      A16S
ATOM  22325  N1   C   A1060     208.527 125.260   9.981  1.00 69.91      A16S
ATOM  22326  C6   C   A1060     207.533 126.087  10.419  1.00 69.91      A16S
ATOM  22327  C2   C   A1060     208.215 124.000   9.464  1.00 69.91      A16S
ATOM  22328  O2   C   A1060     209.121 123.274   9.054  1.00 69.91      A16S
ATOM  22329  N3   C   A1060     206.933 123.609   9.419  1.00 69.91      A16S
ATOM  22330  C4   C   A1060     205.973 124.423   9.853  1.00 69.91      A16S
ATOM  22331  N4   C   A1060     204.716 123.994   9.791  1.00 69.91      A16S
ATOM  22332  C5   C   A1060     206.257 125.712  10.372  1.00 69.91      A16S
ATOM  22333  C2* C   A1060     210.400 126.270   8.710  1.00 50.02      A16S
ATOM  22334  O2* C   A1060     211.747 125.909   8.509  1.00 50.02      A16S
ATOM  22335  C3* C   A1060     210.216 127.764   8.945  1.00 50.02      A16S
ATOM  22336  O3* C   A1060     211.091 128.518   8.123  1.00 50.02      A16S
ATOM  22337  P    G   A1061     210.716 128.776   6.584  1.00 34.15      A16S
ATOM  22338  O1P G   A1061     211.793 129.616   5.998  1.00 70.32      A16S
ATOM  22339  O2P G   A1061     209.317 129.244   6.509  1.00 70.32      A16S
ATOM  22340  O5* G   A1061     210.801 127.323   5.947  1.00 34.15      A16S
ATOM  22341  C5* G   A1061     212.038 126.606   5.953  1.00 34.15      A16S
ATOM  22342  C4* G   A1061     211.940 125.361   5.106  1.00 34.15      A16S
ATOM  22343  O4* G   A1061     211.069 124.389   5.736  1.00 34.15      A16S
ATOM  22344  C1* G   A1061     210.334 123.693   4.738  1.00 34.15      A16S
ATOM  22345  N9   G   A1061     208.917 124.023   4.898  1.00 70.32      A16S
ATOM  22346  C4   G   A1061     207.841 123.256   4.512  1.00 70.32      A16S
ATOM  22347  N3   G   A1061     207.899 122.055   3.906  1.00 70.32      A16S
ATOM  22348  C2   G   A1061     206.700 121.561   3.685  1.00 70.32      A16S
ATOM  22349  N2   G   A1061     206.574 120.370   3.099  1.00 70.32      A16S
ATOM  22350  N1   G   A1061     205.536 122.195   4.025  1.00 70.32      A16S
ATOM  22351  C6   G   A1061     205.455 123.431   4.647  1.00 70.32      A16S
ATOM  22352  O6   G   A1061     204.353 123.914   4.920  1.00 70.32      A16S
ATOM  22353  C5   G   A1061     206.729 123.972   4.889  1.00 70.32      A16S
ATOM  22354  N7   G   A1061     207.093 125.170   5.483  1.00 70.32      A16S
ATOM  22355  C8   G   A1061     208.396 125.159   5.465  1.00 70.32      A16S
ATOM  22356  C2* G   A1061     210.861 124.162   3.385  1.00 34.15      A16S
ATOM  22357  O2* G   A1061     211.937 123.332   2.999  1.00 34.15      A16S
ATOM  22358  C3* G   A1061     211.351 125.555   3.725  1.00 34.15      A16S
ATOM  22359  O3* G   A1061     212.294 126.009   2.792  1.00 34.15      A16S
ATOM  22360  P    U   A1062     211.785 126.852   1.537  1.00 38.17      A16S
ATOM  22361  O1P U   A1062     212.924 126.965   0.579  1.00 69.99      A16S
ATOM  22362  O2P U   A1062     211.132 128.085   2.045  1.00 69.99      A16S
ATOM  22363  O5* U   A1062     210.656 125.916   0.902  1.00 38.17      A16S
ATOM  22364  C5* U   A1062     210.987 124.660   0.261  1.00 38.17      A16S
ATOM  22365  C4* U   A1062     209.752 124.041  -0.363  1.00 38.17      A16S
ATOM  22366  O4* U   A1062     208.826 123.636   0.674  1.00 38.17      A16S
ATOM  22367  C1* U   A1062     207.497 123.836   0.218  1.00 38.17      A16S
ATOM  22368  N1   U   A1062     206.803 124.730   1.158  1.00 69.99      A16S
ATOM  22369  C6   U   A1062     207.450 125.774   1.762  1.00 69.99      A16S
ATOM  22370  C2   U   A1062     205.473 124.495   1.398  1.00 69.99      A16S
ATOM  22371  O2   U   A1062     204.864 123.571   0.903  1.00 69.99      A16S
ATOM  22372  N3   U   A1062     204.874 125.384   2.241  1.00 69.99      A16S
ATOM  22373  C4   U   A1062     205.455 126.455   2.861  1.00 69.99      A16S
ATOM  22374  O4   U   A1062     204.771 127.180   3.582  1.00 69.99      A16S
ATOM  22375  C5   U   A1062     206.837 126.623   2.580  1.00 69.99      A16S
ATOM  22376  C2* U   A1062     207.543 124.406  -1.210  1.00 38.17      A16S
ATOM  22377  O2* U   A1062     207.255 123.433  -2.200  1.00 38.17      A16S
ATOM  22378  C3* U   A1062     208.959 124.957  -1.287  1.00 38.17      A16S
ATOM  22379  O3* U   A1062     209.445 124.872  -2.613  1.00 38.17      A16S
ATOM  22380  P    C   A1063     209.556 126.196  -3.506  1.00 37.98      A16S
ATOM  22381  O1P C   A1063     210.772 126.058  -4.347  1.00 70.52      A16S
ATOM  22382  O2P C   A1063     209.407 127.376  -2.622  1.00 70.52      A16S
ATOM  22383  O5* C   A1063     208.292 126.120  -4.469  1.00 37.98      A16S
ATOM  22384  C5* C   A1063     208.134 125.030  -5.399  1.00 37.98      A16S
ATOM  22385  C4* C   A1063     206.674 124.833  -5.728  1.00 37.98      A16S
ATOM  22386  O4* C   A1063     205.981 124.375  -4.543  1.00 37.98      A16S
ATOM  22387  C1* C   A1063     204.693 124.960  -4.497  1.00 37.98      A16S
ATOM  22388  N1   C   A1063     204.566 125.738  -3.246  1.00 70.52      A16S
ATOM  22389  C6   C   A1063     205.606 126.493  -2.782  1.00 70.52      A16S
ATOM  22390  C2   C   A1063     203.351 125.712  -2.549  1.00 70.52      A16S
ATOM  22391  O2   C   A1063     202.432 124.987  -2.961  1.00 70.52      A16S
ATOM  22392  N3   C   A1063     203.210 126.473  -1.443  1.00 70.52      A16S
ATOM  22393  C4   C   A1063     204.224 127.224  -1.019  1.00 70.52      A16S
ATOM  22394  N4   C   A1063     204.033 127.980   0.061  1.00 70.52      A16S
ATOM  22395  C5   C   A1063     205.478 127.241  -1.685  1.00 70.52      A16S
ATOM  22396  C2* C   A1063     204.512 125.817  -5.756  1.00 37.98      A16S
ATOM  22397  O2* C   A1063     203.830 125.094  -6.748  1.00 37.98      A16S
ATOM  22398  C3* C   A1063     205.944 126.091  -6.163  1.00 37.98      A16S
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ATOM  22399  O3* C   A1063     206.019 126.234  -7.562  1.00 37.98      A16S
ATOM  22400  P   G   A1064     205.830 127.677  -8.228  1.00 48.42      A16S
ATOM  22401  O1P G   A1064     204.371 127.927  -8.333  1.00 57.86      A16S
ATOM  22402  O2P G   A1064     206.669 127.713  -9.454  1.00 57.86      A16S
ATOM  22403  O5* G   A1064     206.451 128.660  -7.135  1.00 48.42      A16S
ATOM  22404  C5* G   A1064     206.981 129.972  -7.473  1.00 48.42      A16S
ATOM  22405  C4* G   A1064     207.293 130.731  -6.199  1.00 48.42      A16S
ATOM  22406  O4* G   A1064     206.037 131.005  -5.528  1.00 48.42      A16S
ATOM  22407  C1* G   A1064     206.038 130.381  -4.265  1.00 48.42      A16S
ATOM  22408  N9  G   A1064     204.695 129.886  -3.992  1.00 57.86      A16S
ATOM  22409  C4  G   A1064     203.925 130.217  -2.913  1.00 57.86      A16S
ATOM  22410  N3  G   A1064     204.278 131.048  -1.923  1.00 57.86      A16S
ATOM  22411  C2  G   A1064     203.341 131.158  -1.023  1.00 57.86      A16S
ATOM  22412  N2  G   A1064     203.542 131.914   0.037  1.00 57.86      A16S
ATOM  22413  N1  G   A1064     202.138 130.528  -1.090  1.00 57.86      A16S
ATOM  22414  C6  G   A1064     201.744 129.672  -2.106  1.00 57.86      A16S
ATOM  22415  O6  G   A1064     200.619 129.156  -2.077  1.00 57.86      A16S
ATOM  22416  C5  G   A1064     202.754 129.524  -3.072  1.00 57.86      A16S
ATOM  22417  N7  G   A1064     202.785 128.763  -4.229  1.00 57.86      A16S
ATOM  22418  C8  G   A1064     203.956 129.011  -4.743  1.00 57.86      A16S
ATOM  22419  C2* G   A1064     207.110 129.294  -4.313  1.00 48.42      A16S
ATOM  22420  O2* G   A1064     207.621 129.034  -3.029  1.00 48.42      A16S
ATOM  22421  C3* G   A1064     208.154 129.941  -5.207  1.00 48.42      A16S
ATOM  22422  O3* G   A1064     208.910 130.785  -4.332  1.00 48.42      A16S
ATOM  22423  P   U   A1065     210.165 131.629  -4.877  1.00 58.42      A16S
ATOM  22424  O1P U   A1065     210.420 131.247  -6.289  1.00 76.18      A16S
ATOM  22425  O2P U   A1065     211.269 131.562  -3.884  1.00 76.18      A16S
ATOM  22426  O5* U   A1065     209.591 133.110  -4.887  1.00 58.42      A16S
ATOM  22427  C5* U   A1065     208.334 133.361  -5.523  1.00 58.42      A16S
ATOM  22428  C4* U   A1065     207.939 134.801  -5.399  1.00 58.42      A16S
ATOM  22429  O4* U   A1065     207.484 135.140  -4.088  1.00 58.42      A16S
ATOM  22430  C1* U   A1065     207.342 136.528  -4.073  1.00 58.42      A16S
ATOM  22431  N1  U   A1065     207.202 136.977  -2.686  1.00 76.18      A16S
ATOM  22432  C6  U   A1065     207.869 136.359  -1.662  1.00 76.18      A16S
ATOM  22433  C2  U   A1065     206.350 138.039  -2.448  1.00 76.18      A16S
ATOM  22434  O2  U   A1065     205.759 138.640  -3.335  1.00 76.18      A16S
ATOM  22435  N3  U   A1065     206.217 138.380  -1.133  1.00 76.18      A16S
ATOM  22436  C4  U   A1065     206.843 137.794  -0.060  1.00 76.18      A16S
ATOM  22437  O4  U   A1065     206.607 138.212   1.073  1.00 76.18      A16S
ATOM  22438  C5  U   A1065     207.723 136.721  -0.392  1.00 76.18      A16S
ATOM  22439  C2* U   A1065     208.521 137.082  -4.878  1.00 58.42      A16S
ATOM  22440  O2* U   A1065     208.106 138.188  -5.655  1.00 58.42      A16S
ATOM  22441  C3* U   A1065     209.002 135.842  -5.659  1.00 58.42      A16S
ATOM  22442  O3* U   A1065     209.222 135.966  -7.064  1.00 58.42      A16S
ATOM  22443  P   C   A1066     208.003 136.306  -8.059  1.00 47.86      A16S
ATOM  22444  O1P C   A1066     208.641 136.384  -9.402  1.00 76.08      A16S
ATOM  22445  O2P C   A1066     207.188 137.454  -7.573  1.00 76.08      A16S
ATOM  22446  O5* C   A1066     207.077 135.006  -8.021  1.00 47.86      A16S
ATOM  22447  C5* C   A1066     207.070 134.059  -9.113  1.00 47.86      A16S
ATOM  22448  C4* C   A1066     205.703 133.423  -9.261  1.00 47.86      A16S
ATOM  22449  O4* C   A1066     205.384 132.640  -8.087  1.00 47.86      A16S
ATOM  22450  C1* C   A1066     203.992 132.693  -7.854  1.00 47.86      A16S
ATOM  22451  N1  C   A1066     203.770 133.027  -6.441  1.00 76.08      A16S
ATOM  22452  C6  C   A1066     204.439 134.058  -5.852  1.00 76.08      A16S
ATOM  22453  C2  C   A1066     202.879 132.255  -5.702  1.00 76.08      A16S
ATOM  22454  O2  C   A1066     202.254 131.352  -6.268  1.00 76.08      A16S
ATOM  22455  N3  C   A1066     202.714 132.511  -4.391  1.00 76.08      A16S
ATOM  22456  C4  C   A1066     203.391 133.503  -3.820  1.00 76.08      A16S
ATOM  22457  N4  C   A1066     203.218 133.709  -2.518  1.00 76.08      A16S
ATOM  22458  C5  C   A1066     204.282 134.327  -4.556  1.00 76.08      A16S
ATOM  22459  C2* C   A1066     203.349 133.620  -8.892  1.00 47.86      A16S
ATOM  22460  O2* C   A1066     202.749 132.840  -9.893  1.00 47.86      A16S
ATOM  22461  C3* C   A1066     204.547 134.391  -9.436  1.00 47.86      A16S
ATOM  22462  O3* C   A1066     204.380 134.633 -10.825  1.00 47.86      A16S
ATOM  22463  P   A   A1067     203.728 136.008 -11.322  1.00 52.27      A16S
ATOM  22464  O1P A   A1067     203.609 136.034 -12.804  1.00 40.31      A16S
ATOM  22465  O2P A   A1067     204.505 137.062 -10.635  1.00 40.31      A16S
ATOM  22466  O5* A   A1067     202.246 135.945 -10.746  1.00 52.27      A16S
ATOM  22467  C5* A   A1067     201.359 134.875 -11.118  1.00 52.27      A16S
ATOM  22468  C4* A   A1067     199.920 135.299 -10.939  1.00 52.27      A16S
ATOM  22469  O4* A   A1067     199.596 135.379  -9.525  1.00 52.27      A16S
ATOM  22470  C1* A   A1067     199.439 136.726  -9.126  1.00 52.27      A16S
ATOM  22471  N9  A   A1067     200.409 136.938  -8.049  1.00 40.31      A16S
ATOM  22472  C4  A   A1067     200.183 136.787  -6.703  1.00 40.31      A16S
ATOM  22473  N3  A   A1067     199.020 136.509  -6.098  1.00 40.31      A16S
ATOM  22474  C2  A   A1067     199.195 136.392  -4.781  1.00 40.31      A16S
ATOM  22475  N1  A   A1067     200.314 136.506  -4.056  1.00 40.31      A16S
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ATOM  22476  C6  A  A1067     201.464 136.785  -4.690  1.00 40.31      A16S
ATOM  22477  N6  A  A1067     202.573 136.879  -3.965  1.00 40.31      A16S
ATOM  22478  C5  A  A1067     201.418 136.949  -6.087  1.00 40.31      A16S
ATOM  22479  N7  A  A1067     202.395 137.251  -7.022  1.00 40.31      A16S
ATOM  22480  C8  A  A1067     201.745 137.249  -8.164  1.00 40.31      A16S
ATOM  22481  C2* A  A1067     199.674 137.618 -10.349  1.00 52.27      A16S
ATOM  22482  O2* A  A1067     198.822 138.736 -10.381  1.00 52.27      A16S
ATOM  22483  C3* A  A1067     199.569 136.649 -11.540  1.00 52.27      A16S
ATOM  22484  O3* A  A1067     198.396 136.573 -12.399  1.00 52.27      A16S
ATOM  22485  P   G  A1068     196.908 136.451 -11.786  1.00 26.57      A16S
ATOM  22486  O1P G  A1068     195.945 136.742 -12.882  1.00 35.63      A16S
ATOM  22487  O2P G  A1068     196.843 137.240 -10.550  1.00 35.63      A16S
ATOM  22488  O5* G  A1068     196.766 134.921 -11.375  1.00 26.57      A16S
ATOM  22489  C5* G  A1068     195.641 134.480 -10.603  1.00 26.57      A16S
ATOM  22490  C4* G  A1068     196.107 133.907  -9.290  1.00 26.57      A16S
ATOM  22491  O4* G  A1068     196.913 134.894  -8.604  1.00 26.57      A16S
ATOM  22492  C1* G  A1068     196.614 134.891  -7.216  1.00 26.57      A16S
ATOM  22493  N9  G  A1068     196.046 136.197  -6.881  1.00 35.63      A16S
ATOM  22494  C4  G  A1068     195.565 136.611  -5.662  1.00 35.63      A16S
ATOM  22495  N3  G  A1068     195.525 135.878  -4.528  1.00 35.63      A16S
ATOM  22496  C2  G  A1068     194.982 136.552  -3.526  1.00 35.63      A16S
ATOM  22497  N2  G  A1068     194.846 135.979  -2.330  1.00 35.63      A16S
ATOM  22498  N1  G  A1068     194.527 137.842  -3.627  1.00 35.63      A16S
ATOM  22499  C6  G  A1068     194.559 138.614  -4.785  1.00 35.63      A16S
ATOM  22500  O6  G  A1068     194.117 139.770  -4.774  1.00 35.63      A16S
ATOM  22501  C5  G  A1068     195.129 137.905  -5.865  1.00 35.63      A16S
ATOM  22502  N7  G  A1068     195.337 138.297  -7.177  1.00 35.63      A16S
ATOM  22503  C8  G  A1068     195.883 137.258  -7.738  1.00 35.63      A16S
ATOM  22504  C2* G  A1068     195.670 133.717  -6.957  1.00 26.57      A16S
ATOM  22505  O2* G  A1068     196.440 132.587  -6.613  1.00 26.57      A16S
ATOM  22506  C3* G  A1068     194.991 133.561  -8.315  1.00 26.57      A16S
ATOM  22507  O3* G  A1068     194.514 132.233  -8.538  1.00 26.57      A16S
ATOM  22508  P   C  A1069     192.959 131.900  -8.342  1.00 49.68      A16S
ATOM  22509  O1P C  A1069     192.779 130.474  -8.665  1.00 35.37      A16S
ATOM  22510  O2P C  A1069     192.151 132.920  -9.070  1.00 35.37      A16S
ATOM  22511  O5* C  A1069     192.774 132.045  -6.768  1.00 49.68      A16S
ATOM  22512  C5* C  A1069     193.356 131.085  -5.857  1.00 49.68      A16S
ATOM  22513  C4* C  A1069     192.902 131.363  -4.435  1.00 49.68      A16S
ATOM  22514  O4* C  A1069     193.504 132.601  -3.967  1.00 49.68      A16S
ATOM  22515  C1* C  A1069     192.584 133.302  -3.144  1.00 49.68      A16S
ATOM  22516  N1  C  A1069     192.258 134.588  -3.790  1.00 35.37      A16S
ATOM  22517  C6  C  A1069     192.388 134.755  -5.139  1.00 35.37      A16S
ATOM  22518  C2  C  A1069     191.805 135.635  -2.996  1.00 35.37      A16S
ATOM  22519  O2  C  A1069     191.707 135.453  -1.766  1.00 35.37      A16S
ATOM  22520  N3  C  A1069     191.485 136.822  -3.581  1.00 35.37      A16S
ATOM  22521  C4  C  A1069     191.611 136.971  -4.902  1.00 35.37      A16S
ATOM  22522  N4  C  A1069     191.276 138.152  -5.444  1.00 35.37      A16S
ATOM  22523  C5  C  A1069     192.080 135.918  -5.729  1.00 35.37      A16S
ATOM  22524  C2* C  A1069     191.340 132.430  -2.976  1.00 49.68      A16S
ATOM  22525  O2* C  A1069     191.423 131.677  -1.781  1.00 49.68      A16S
ATOM  22526  C3* C  A1069     191.403 131.571  -4.234  1.00 49.68      A16S
ATOM  22527  O3* C  A1069     190.653 130.364  -4.108  1.00 49.68      A16S
ATOM  22528  P   U  A1070     189.060 130.417  -4.264  1.00 65.44      A16S
ATOM  22529  O1P U  A1070     188.528 129.046  -4.070  1.00 43.77      A16S
ATOM  22530  O2P U  A1070     188.735 131.173  -5.509  1.00 43.77      A16S
ATOM  22531  O5* U  A1070     188.632 131.305  -3.020  1.00 65.44      A16S
ATOM  22532  C5* U  A1070     187.425 132.068  -3.042  1.00 65.44      A16S
ATOM  22533  C4* U  A1070     187.337 132.938  -1.814  1.00 65.44      A16S
ATOM  22534  O4* U  A1070     188.364 133.963  -1.856  1.00 65.44      A16S
ATOM  22535  C1* U  A1070     187.840 135.183  -1.361  1.00 65.44      A16S
ATOM  22536  N1  U  A1070     187.839 136.157  -2.463  1.00 43.77      A16S
ATOM  22537  C6  U  A1070     188.148 135.770  -3.741  1.00 43.77      A16S
ATOM  22538  C2  U  A1070     187.530 137.477  -2.180  1.00 43.77      A16S
ATOM  22539  O2  U  A1070     187.197 137.863  -1.072  1.00 43.77      A16S
ATOM  22540  N3  U  A1070     187.612 138.332  -3.251  1.00 43.77      A16S
ATOM  22541  C4  U  A1070     187.945 138.008  -4.548  1.00 43.77      A16S
ATOM  22542  O4  U  A1070     188.088 138.903  -5.379  1.00 43.77      A16S
ATOM  22543  C5  U  A1070     188.205 136.626  -4.763  1.00 43.77      A16S
ATOM  22544  C2* U  A1070     186.434 134.897  -0.842  1.00 65.44      A16S
ATOM  22545  O2* U  A1070     186.525 134.560   0.528  1.00 65.44      A16S
ATOM  22546  C3* U  A1070     186.037 133.709  -1.701  1.00 65.44      A16S
ATOM  22547  O3* U  A1070     185.040 132.901  -1.108  1.00 65.44      A16S
ATOM  22548  P   C  A1071     183.497 133.202  -1.412  1.00 54.07      A16S
ATOM  22549  O1P C  A1071     182.746 131.999  -0.945  1.00 42.07      A16S
ATOM  22550  O2P C  A1071     183.330 133.667  -2.815  1.00 42.07      A16S
ATOM  22551  O5* C  A1071     183.200 134.438  -0.455  1.00 54.07      A16S
ATOM  22552  C5* C  A1071     183.557 134.394   0.942  1.00 54.07      A16S
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ATOM  22553  C4* C   A1071     183.357 135.750   1.565  1.00 54.07      A16S
ATOM  22554  O4* C   A1071     184.287 136.678   0.961  1.00 54.07      A16S
ATOM  22555  C1* C   A1071     183.672 137.940   0.812  1.00 54.07      A16S
ATOM  22556  N1   C   A1071     183.677 138.309  -0.605  1.00 42.07      A16S
ATOM  22557  C6   C   A1071     183.787 137.370  -1.588  1.00 42.07      A16S
ATOM  22558  C2   C   A1071     183.559 139.654  -0.930  1.00 42.07      A16S
ATOM  22559  O2   C   A1071     183.436 140.484  -0.009  1.00 42.07      A16S
ATOM  22560  N3   C   A1071     183.570 140.025  -2.227  1.00 42.07      A16S
ATOM  22561  C4   C   A1071     183.677 139.105  -3.177  1.00 42.07      A16S
ATOM  22562  N4   C   A1071     183.678 139.519  -4.437  1.00 42.07      A16S
ATOM  22563  C5   C   A1071     183.787 137.722  -2.875  1.00 42.07      A16S
ATOM  22564  C2* C   A1071     182.253 137.856   1.366  1.00 54.07      A16S
ATOM  22565  O2* C   A1071     182.213 138.412   2.659  1.00 54.07      A16S
ATOM  22566  C3* C   A1071     181.990 136.358   1.309  1.00 54.07      A16S
ATOM  22567  O3* C   A1071     181.028 135.930   2.259  1.00 54.07      A16S
ATOM  22568  P    G   A1072     179.465 136.015   1.897  1.00 51.43      A16S
ATOM  22569  O1P G   A1072     178.773 135.379   3.048  1.00 47.98      A16S
ATOM  22570  O2P G   A1072     179.221 135.514   0.525  1.00 47.98      A16S
ATOM  22571  O5* G   A1072     179.154 137.575   1.879  1.00 51.43      A16S
ATOM  22572  C5* G   A1072     179.081 138.319   3.100  1.00 51.43      A16S
ATOM  22573  C4* G   A1072     178.582 139.706   2.825  1.00 51.43      A16S
ATOM  22574  O4* G   A1072     179.595 140.459   2.120  1.00 51.43      A16S
ATOM  22575  C1* G   A1072     178.976 141.343   1.200  1.00 51.43      A16S
ATOM  22576  N9   G   A1072     179.460 141.037  -0.144  1.00 47.98      A16S
ATOM  22577  C4   G   A1072     179.543 141.912  -1.203  1.00 47.98      A16S
ATOM  22578  N3   G   A1072     179.215 143.218  -1.179  1.00 47.98      A16S
ATOM  22579  C2   G   A1072     179.385 143.791  -2.359  1.00 47.98      A16S
ATOM  22580  N2   G   A1072     179.112 145.090  -2.519  1.00 47.98      A16S
ATOM  22581  N1   G   A1072     179.836 143.135  -3.468  1.00 47.98      A16S
ATOM  22582  C6   G   A1072     180.180 141.794  -3.517  1.00 47.98      A16S
ATOM  22583  O6   G   A1072     180.572 141.302  -4.574  1.00 47.98      A16S
ATOM  22584  C5   G   A1072     180.009 141.165  -2.261  1.00 47.98      A16S
ATOM  22585  N7   G   A1072     180.233 139.848  -1.875  1.00 47.98      A16S
ATOM  22586  C8   G   A1072     179.900 139.819  -0.614  1.00 47.98      A16S
ATOM  22587  C2* G   A1072     177.461 141.159   1.325  1.00 51.43      A16S
ATOM  22588  O2* G   A1072     176.927 142.157   2.167  1.00 51.43      A16S
ATOM  22589  C3* G   A1072     177.362 139.768   1.930  1.00 51.43      A16S
ATOM  22590  O3* G   A1072     176.168 139.581   2.677  1.00 51.43      A16S
ATOM  22591  P    U   A1073     174.904 138.853   1.996  1.00 40.87      A16S
ATOM  22592  O1P U   A1073     173.931 138.545   3.092  1.00 57.08      A16S
ATOM  22593  O2P U   A1073     175.411 137.743   1.131  1.00 57.08      A16S
ATOM  22594  O5* U   A1073     174.322 139.966   1.017  1.00 40.87      A16S
ATOM  22595  C5* U   A1073     173.885 141.224   1.520  1.00 40.87      A16S
ATOM  22596  C4* U   A1073     173.736 142.201   0.393  1.00 40.87      A16S
ATOM  22597  O4* U   A1073     175.047 142.571  -0.095  1.00 40.87      A16S
ATOM  22598  C1* U   A1073     174.992 142.790  -1.500  1.00 40.87      A16S
ATOM  22599  N1   U   A1073     175.886 141.831  -2.173  1.00 57.08      A16S
ATOM  22600  C6   U   A1073     176.151 140.600  -1.627  1.00 57.08      A16S
ATOM  22601  C2   U   A1073     176.412 142.191  -3.396  1.00 57.08      A16S
ATOM  22602  O2   U   A1073     176.257 143.290  -3.880  1.00 57.08      A16S
ATOM  22603  N3   U   A1073     177.129 141.212  -4.030  1.00 57.08      A16S
ATOM  22604  C4   U   A1073     177.385 139.935  -3.568  1.00 57.08      A16S
ATOM  22605  O4   U   A1073     177.901 139.094  -4.328  1.00 57.08      A16S
ATOM  22606  C5   U   A1073     176.861 139.669  -2.261  1.00 57.08      A16S
ATOM  22607  C2* U   A1073     173.542 142.569  -1.943  1.00 40.87      A16S
ATOM  22608  O2* U   A1073     172.871 143.801  -2.054  1.00 40.87      A16S
ATOM  22609  C3* U   A1073     173.014 141.674  -0.831  1.00 40.87      A16S
ATOM  22610  O3* U   A1073     171.604 141.702  -0.715  1.00 40.87      A16S
ATOM  22611  P    G   A1074     170.725 140.665  -1.575  1.00 39.61      A16S
ATOM  22612  O1P G   A1074     169.294 140.852  -1.239  1.00 52.39      A16S
ATOM  22613  O2P G   A1074     171.333 139.323  -1.411  1.00 52.39      A16S
ATOM  22614  O5* G   A1074     170.910 141.192  -3.066  1.00 39.61      A16S
ATOM  22615  C5* G   A1074     170.541 142.535  -3.385  1.00 39.61      A16S
ATOM  22616  C4* G   A1074     170.946 142.889  -4.785  1.00 39.61      A16S
ATOM  22617  O4* G   A1074     172.385 142.976  -4.896  1.00 39.61      A16S
ATOM  22618  C1* G   A1074     172.786 142.585  -6.203  1.00 39.61      A16S
ATOM  22619  N9   G   A1074     173.686 141.438  -6.091  1.00 52.39      A16S
ATOM  22620  C4   G   A1074     174.464 140.906  -7.089  1.00 52.39      A16S
ATOM  22621  N3   G   A1074     174.527 141.341  -8.360  1.00 52.39      A16S
ATOM  22622  C2   G   A1074     175.374 140.635  -9.079  1.00 52.39      A16S
ATOM  22623  N2   G   A1074     175.568 140.940 -10.368  1.00 52.39      A16S
ATOM  22624  N1   G   A1074     176.100 139.578  -8.588  1.00 52.39      A16S
ATOM  22625  C6   G   A1074     176.046 139.109  -7.280  1.00 52.39      A16S
ATOM  22626  O6   G   A1074     176.743 138.139  -6.932  1.00 52.39      A16S
ATOM  22627  C5   G   A1074     175.145 139.863  -6.502  1.00 52.39      A16S
ATOM  22628  N7   G   A1074     174.794 139.732  -5.169  1.00 52.39      A16S
ATOM  22629  C8   G   A1074     173.928 140.684  -4.970  1.00 52.39      A16S
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ATOM  22630  C2* G   A1074     171.521 142.255  -6.990  1.00 39.61      A16S
ATOM  22631  O2* G   A1074     171.132 143.403  -7.719  1.00 39.61      A16S
ATOM  22632  C3* G   A1074     170.545 141.914  -5.869  1.00 39.61      A16S
ATOM  22633  O3* G   A1074     169.197 142.084  -6.253  1.00 39.61      A16S
ATOM  22634  P    C   A1075     168.389 140.832  -6.830  1.00 37.09      A16S
ATOM  22635  O1P C   A1075     167.014 141.288  -7.160  1.00 54.62      A16S
ATOM  22636  O2P C   A1075     168.589 139.697  -5.890  1.00 54.62      A16S
ATOM  22637  O5* C   A1075     169.139 140.498  -8.189  1.00 37.09      A16S
ATOM  22638  C5* C   A1075     169.087 141.419  -9.281  1.00 37.09      A16S
ATOM  22639  C4* C   A1075     169.952 140.933 -10.409  1.00 37.09      A16S
ATOM  22640  O4* C   A1075     171.339 140.967  -9.996  1.00 37.09      A16S
ATOM  22641  C1* C   A1075     172.037 139.888 -10.590  1.00 37.09      A16S
ATOM  22642  N1   C   A1075     172.537 139.010  -9.521  1.00 54.62      A16S
ATOM  22643  C6   C   A1075     172.040 139.096  -8.254  1.00 54.62      A16S
ATOM  22644  C2   C   A1075     173.522 138.073  -9.827  1.00 54.62      A16S
ATOM  22645  O2   C   A1075     173.966 138.026 -10.982  1.00 54.62      A16S
ATOM  22646  N3   C   A1075     173.965 137.244  -8.862  1.00 54.62      A16S
ATOM  22647  C4   C   A1075     173.463 137.329  -7.633  1.00 54.62      A16S
ATOM  22648  N4   C   A1075     173.918 136.487  -6.713  1.00 54.62      A16S
ATOM  22649  C5   C   A1075     172.470 138.282  -7.290  1.00 54.62      A16S
ATOM  22650  C2* C   A1075     171.054 139.151 -11.495  1.00 37.09      A16S
ATOM  22651  O2* C   A1075     171.122 139.681 -12.803  1.00 37.09      A16S
ATOM  22652  C3* C   A1075     169.734 139.496 -10.837  1.00 37.09      A16S
ATOM  22653  O3* C   A1075     168.652 139.333 -11.727  1.00 37.09      A16S
ATOM  22654  P    C   A1076     167.878 137.933 -11.745  1.00 40.29      A16S
ATOM  22655  O1P C   A1076     166.645 138.111 -12.547  1.00 23.07      A16S
ATOM  22656  O2P C   A1076     167.795 137.423 -10.348  1.00 23.07      A16S
ATOM  22657  O5* C   A1076     168.871 136.961 -12.524  1.00 40.29      A16S
ATOM  22658  C5* C   A1076     169.083 137.092 -13.948  1.00 40.29      A16S
ATOM  22659  C4* C   A1076     169.869 135.913 -14.465  1.00 40.29      A16S
ATOM  22660  O4* C   A1076     171.191 135.931 -13.878  1.00 40.29      A16S
ATOM  22661  C1* C   A1076     171.592 134.616 -13.564  1.00 40.29      A16S
ATOM  22662  N1   C   A1076     171.752 134.532 -12.105  1.00 23.07      A16S
ATOM  22663  C6   C   A1076     171.230 135.488 -11.287  1.00 23.07      A16S
ATOM  22664  C2   C   A1076     172.440 133.445 -11.564  1.00 23.07      A16S
ATOM  22665  O2   C   A1076     172.933 132.621 -12.324  1.00 23.07      A16S
ATOM  22666  N3   C   A1076     172.562 133.325 -10.228  1.00 23.07      A16S
ATOM  22667  C4   C   A1076     172.046 134.255  -9.436  1.00 23.07      A16S
ATOM  22668  N4   C   A1076     172.185 134.098  -8.115  1.00 23.07      A16S
ATOM  22669  C5   C   A1076     171.356 135.395  -9.960  1.00 23.07      A16S
ATOM  22670  C2* C   A1076     170.510 133.669 -14.080  1.00 40.29      A16S
ATOM  22671  O2* C   A1076     170.802 133.234 -15.391  1.00 40.29      A16S
ATOM  22672  C3* C   A1076     169.296 134.570 -14.069  1.00 40.29      A16S
ATOM  22673  O3* C   A1076     168.319 134.128 -14.979  1.00 40.29      A16S
ATOM  22674  P    G   A1077     167.125 133.200 -14.450  1.00 29.51      A16S
ATOM  22675  O1P G   A1077     166.240 132.917 -15.617  1.00 48.74      A16S
ATOM  22676  O2P G   A1077     166.569 133.817 -13.226  1.00 48.74      A16S
ATOM  22677  O5* G   A1077     167.861 131.858 -14.016  1.00 29.51      A16S
ATOM  22678  C5* G   A1077     168.462 131.017 -15.013  1.00 29.51      A16S
ATOM  22679  C4* G   A1077     169.091 129.809 -14.378  1.00 29.51      A16S
ATOM  22680  O4* G   A1077     170.259 130.205 -13.630  1.00 29.51      A16S
ATOM  22681  C1* G   A1077     170.500 129.259 -12.612  1.00 29.51      A16S
ATOM  22682  N9   G   A1077     170.628 129.955 -11.339  1.00 48.74      A16S
ATOM  22683  C4   G   A1077     171.273 129.498 -10.215  1.00 48.74      A16S
ATOM  22684  N3   G   A1077     172.004 128.371 -10.119  1.00 48.74      A16S
ATOM  22685  C2   G   A1077     172.450 128.174  -8.886  1.00 48.74      A16S
ATOM  22686  N2   G   A1077     173.239 127.135  -8.609  1.00 48.74      A16S
ATOM  22687  N1   G   A1077     172.167 128.988  -7.829  1.00 48.74      A16S
ATOM  22688  C6   G   A1077     171.406 130.146  -7.899  1.00 48.74      A16S
ATOM  22689  O6   G   A1077     171.175 130.793  -6.866  1.00 48.74      A16S
ATOM  22690  C5   G   A1077     170.968 130.403  -9.229  1.00 48.74      A16S
ATOM  22691  N7   G   A1077     170.232 131.457  -9.743  1.00 48.74      A16S
ATOM  22692  C8   G   A1077     170.066 131.155 -10.999  1.00 48.74      A16S
ATOM  22693  C2* G   A1077     169.334 128.264 -12.615  1.00 29.51      A16S
ATOM  22694  O2* G   A1077     169.719 127.113 -13.321  1.00 29.51      A16S
ATOM  22695  C3* G   A1077     168.259 129.017 -13.384  1.00 29.51      A16S
ATOM  22696  O3* G   A1077     167.369 128.106 -14.043  1.00 29.51      A16S
ATOM  22697  P    U   A1078     165.827 127.990 -13.569  1.00 30.04      A16S
ATOM  22698  O1P U   A1078     165.124 127.033 -14.450  1.00 48.88      A16S
ATOM  22699  O2P U   A1078     165.289 129.364 -13.422  1.00 48.88      A16S
ATOM  22700  O5* U   A1078     165.952 127.306 -12.142  1.00 30.04      A16S
ATOM  22701  C5* U   A1078     164.903 127.395 -11.200  1.00 30.04      A16S
ATOM  22702  C4* U   A1078     165.067 126.329 -10.161  1.00 30.04      A16S
ATOM  22703  O4* U   A1078     164.814 125.046 -10.765  1.00 30.04      A16S
ATOM  22704  C1* U   A1078     165.625 124.071 -10.146  1.00 30.04      A16S
ATOM  22705  N1   U   A1078     166.411 123.379 -11.173  1.00 48.88      A16S
ATOM  22706  C6   U   A1078     166.939 124.036 -12.252  1.00 48.88      A16S
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ATOM  22707  C2  U  A1078     166.594 122.040 -11.007  1.00 48.88      A16S
ATOM  22708  O2  U  A1078     166.146 121.439 -10.048  1.00 48.88      A16S
ATOM  22709  N3  U  A1078     167.322 121.424 -11.996  1.00 48.88      A16S
ATOM  22710  C4  U  A1078     167.870 122.017 -13.110  1.00 48.88      A16S
ATOM  22711  O4  U  A1078     168.433 121.325 -13.953  1.00 48.88      A16S
ATOM  22712  C5  U  A1078     167.646 123.417 -13.200  1.00 48.88      A16S
ATOM  22713  C2* U  A1078     166.470 124.758  -9.076  1.00 30.04      A16S
ATOM  22714  O2* U  A1078     165.803 124.579  -7.847  1.00 30.04      A16S
ATOM  22715  C3* U  A1078     166.445 126.211  -9.531  1.00 30.04      A16S
ATOM  22716  O3* U  A1078     166.527 127.068  -8.408  1.00 30.04      A16S
ATOM  22717  P   G  A1079     167.951 127.624  -7.915  1.00 36.55      A16S
ATOM  22718  O1P G  A1079     167.785 128.180  -6.539  1.00 38.88      A16S
ATOM  22719  O2P G  A1079     168.459 128.502  -8.995  1.00 38.88      A16S
ATOM  22720  O5* G  A1079     168.870 126.334  -7.773  1.00 36.55      A16S
ATOM  22721  C5* G  A1079     168.697 125.447  -6.677  1.00 36.55      A16S
ATOM  22722  C4* G  A1079     169.588 124.256  -6.841  1.00 36.55      A16S
ATOM  22723  O4* G  A1079     169.320 123.636  -8.121  1.00 36.55      A16S
ATOM  22724  C1* G  A1079     170.516 123.088  -8.652  1.00 36.55      A16S
ATOM  22725  N9  G  A1079     170.691 123.610 -10.004  1.00 38.88      A16S
ATOM  22726  C4  G  A1079     171.135 122.911 -11.097  1.00 38.88      A16S
ATOM  22727  N3  G  A1079     171.560 121.634 -11.101  1.00 38.88      A16S
ATOM  22728  C2  G  A1079     171.888 121.231 -12.315  1.00 38.88      A16S
ATOM  22729  N2  G  A1079     172.352 119.995 -12.506  1.00 38.88      A16S
ATOM  22730  N1  G  A1079     171.791 122.009 -13.431  1.00 38.88      A16S
ATOM  22731  C6  G  A1079     171.358 123.321 -13.446  1.00 38.88      A16S
ATOM  22732  O6  G  A1079     171.304 123.926 -14.508  1.00 38.88      A16S
ATOM  22733  C5  G  A1079     171.023 123.776 -12.154  1.00 38.88      A16S
ATOM  22734  N7  G  A1079     170.569 125.012 -11.730  1.00 38.88      A16S
ATOM  22735  C8  G  A1079     170.394 124.870 -10.448  1.00 38.88      A16S
ATOM  22736  C2* G  A1079     171.647 123.388  -7.670  1.00 36.55      A16S
ATOM  22737  O2* G  A1079     171.883 122.243  -6.871  1.00 36.55      A16S
ATOM  22738  C3* G  A1079     171.068 124.562  -6.884  1.00 36.55      A16S
ATOM  22739  O3* G  A1079     171.588 124.646  -5.580  1.00 36.55      A16S
ATOM  22740  P   A  A1080     172.868 125.558  -5.316  1.00 44.04      A16S
ATOM  22741  O1P A  A1080     173.023 125.718  -3.849  1.00 27.29      A16S
ATOM  22742  O2P A  A1080     172.740 126.752  -6.188  1.00 27.29      A16S
ATOM  22743  O5* A  A1080     174.081 124.650  -5.797  1.00 44.04      A16S
ATOM  22744  C5* A  A1080     174.413 123.456  -5.065  1.00 44.04      A16S
ATOM  22745  C4* A  A1080     175.508 122.698  -5.760  1.00 44.04      A16S
ATOM  22746  O4* A  A1080     175.034 122.206  -7.032  1.00 44.04      A16S
ATOM  22747  C1* A  A1080     176.089 122.218  -7.967  1.00 44.04      A16S
ATOM  22748  N9  A  A1080     175.668 123.013  -9.119  1.00 27.29      A16S
ATOM  22749  C4  A  A1080     175.488 122.533 -10.392  1.00 27.29      A16S
ATOM  22750  N3  A  A1080     175.705 121.283 -10.825  1.00 27.29      A16S
ATOM  22751  C2  A  A1080     175.404 121.179 -12.112  1.00 27.29      A16S
ATOM  22752  N1  A  A1080     174.936 122.110 -12.952  1.00 27.29      A16S
ATOM  22753  C6  A  A1080     174.722 123.357 -12.481  1.00 27.29      A16S
ATOM  22754  N6  A  A1080     174.234 124.281 -13.313  1.00 27.29      A16S
ATOM  22755  C5  A  A1080     175.020 123.602 -11.136  1.00 27.29      A16S
ATOM  22756  N7  A  A1080     174.944 124.745 -10.359  1.00 27.29      A16S
ATOM  22757  C8  A  A1080     175.343 124.347  -9.173  1.00 27.29      A16S
ATOM  22758  C2* A  A1080     177.341 122.719  -7.254  1.00 44.04      A16S
ATOM  22759  O2* A  A1080     178.045 121.572  -6.827  1.00 44.04      A16S
ATOM  22760  C3* A  A1080     176.746 123.501  -6.090  1.00 44.04      A16S
ATOM  22761  O3* A  A1080     177.608 123.545  -4.956  1.00 44.04      A16S
ATOM  22762  P   G  A1081     178.587 124.801  -4.756  1.00 19.31      A16S
ATOM  22763  O1P G  A1081     179.590 124.467  -3.708  1.00 44.37      A16S
ATOM  22764  O2P G  A1081     177.723 125.995  -4.589  1.00 44.37      A16S
ATOM  22765  O5* G  A1081     179.286 124.890  -6.177  1.00 19.31      A16S
ATOM  22766  C5* G  A1081     179.648 126.135  -6.738  1.00 19.31      A16S
ATOM  22767  C4* G  A1081     179.233 126.178  -8.169  1.00 19.31      A16S
ATOM  22768  O4* G  A1081     177.791 126.053  -8.245  1.00 19.31      A16S
ATOM  22769  C1* G  A1081     177.281 126.975  -9.208  1.00 19.31      A16S
ATOM  22770  N9  G  A1081     176.507 128.000  -8.507  1.00 44.37      A16S
ATOM  22771  C4  G  A1081     175.838 129.053  -9.083  1.00 44.37      A16S
ATOM  22772  N3  G  A1081     175.743 129.301 -10.401  1.00 44.37      A16S
ATOM  22773  C2  G  A1081     175.068 130.403 -10.648  1.00 44.37      A16S
ATOM  22774  N2  G  A1081     174.904 130.814 -11.909  1.00 44.37      A16S
ATOM  22775  N1  G  A1081     174.515 131.189  -9.681  1.00 44.37      A16S
ATOM  22776  C6  G  A1081     174.598 130.949  -8.317  1.00 44.37      A16S
ATOM  22777  O6  G  A1081     174.064 131.731  -7.518  1.00 44.37      A16S
ATOM  22778  C5  G  A1081     175.329 129.777  -8.040  1.00 44.37      A16S
ATOM  22779  N7  G  A1081     175.646 129.186  -6.829  1.00 44.37      A16S
ATOM  22780  C8  G  A1081     176.336 128.133  -7.153  1.00 44.37      A16S
ATOM  22781  C2* G  A1081     178.476 127.639  -9.889  1.00 19.31      A16S
ATOM  22782  O2* G  A1081     178.789 126.984 -11.091  1.00 19.31      A16S
ATOM  22783  C3* G  A1081     179.539 127.514  -8.807  1.00 19.31      A16S
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ATOM  22784  O3*  G   A1081     180.865 127.590  -9.283  1.00 19.31      A16S
ATOM  22785  P    G   A1082     181.648 128.979  -9.176  1.00 26.78      A16S
ATOM  22786  O1P  G   A1082     183.050 128.752  -9.588  1.00 43.87      A16S
ATOM  22787  O2P  G   A1082     181.358 129.518  -7.827  1.00 43.87      A16S
ATOM  22788  O5*  G   A1082     180.956 129.876 -10.289  1.00 26.78      A16S
ATOM  22789  C5*  G   A1082     180.957 129.445 -11.647  1.00 26.78      A16S
ATOM  22790  C4*  G   A1082     180.019 130.285 -12.472  1.00 26.78      A16S
ATOM  22791  O4*  G   A1082     178.702 130.224 -11.875  1.00 26.78      A16S
ATOM  22792  C1*  G   A1082     178.011 131.437 -12.129  1.00 26.78      A16S
ATOM  22793  N9   G   A1082     177.619 132.041 -10.862  1.00 43.87      A16S
ATOM  22794  C4   G   A1082     176.768 133.096 -10.720  1.00 43.87      A16S
ATOM  22795  N3   G   A1082     176.129 133.725 -11.721  1.00 43.87      A16S
ATOM  22796  C2   G   A1082     175.381 134.716 -11.279  1.00 43.87      A16S
ATOM  22797  N2   G   A1082     174.669 135.448 -12.145  1.00 43.87      A16S
ATOM  22798  N1   G   A1082     175.275 135.060  -9.955  1.00 43.87      A16S
ATOM  22799  C6   G   A1082     175.929 134.422  -8.910  1.00 43.87      A16S
ATOM  22800  O6   G   A1082     175.770 134.813  -7.753  1.00 43.87      A16S
ATOM  22801  C5   G   A1082     176.727 133.357  -9.371  1.00 43.87      A16S
ATOM  22802  N7   G   A1082     177.525 132.464  -8.672  1.00 43.87      A16S
ATOM  22803  C8   G   A1082     178.031 131.699  -9.596  1.00 43.87      A16S
ATOM  22804  C2*  G   A1082     178.942 132.352 -12.921  1.00 26.78      A16S
ATOM  22805  O2*  G   A1082     178.611 132.231 -14.284  1.00 26.78      A16S
ATOM  22806  C3*  G   A1082     180.311 131.775 -12.580  1.00 26.78      A16S
ATOM  22807  O3*  G   A1082     181.275 132.069 -13.584  1.00 26.78      A16S
ATOM  22808  P    U   A1083     182.410 133.183 -13.307  1.00 62.20      A16S
ATOM  22809  O1P  U   A1083     183.303 133.211 -14.509  1.00 55.52      A16S
ATOM  22810  O2P  U   A1083     183.012 132.953 -11.950  1.00 55.52      A16S
ATOM  22811  O5*  U   A1083     181.592 134.551 -13.296  1.00 62.20      A16S
ATOM  22812  C5*  U   A1083     180.802 134.928 -14.431  1.00 62.20      A16S
ATOM  22813  C4*  U   A1083     179.939 136.126 -14.114  1.00 62.20      A16S
ATOM  22814  O4*  U   A1083     178.968 135.797 -13.094  1.00 62.20      A16S
ATOM  22815  C1*  U   A1083     178.673 136.954 -12.332  1.00 62.20      A16S
ATOM  22816  N1   U   A1083     178.886 136.652 -10.910  1.00 55.52      A16S
ATOM  22817  C6   U   A1083     179.992 135.978 -10.480  1.00 55.52      A16S
ATOM  22818  C2   U   A1083     177.922 137.067 -10.026  1.00 55.52      A16S
ATOM  22819  O2   U   A1083     176.936 137.692 -10.365  1.00 55.52      A16S
ATOM  22820  N3   U   A1083     178.154 136.730  -8.722  1.00 55.52      A16S
ATOM  22821  C4   U   A1083     179.235 136.047  -8.225  1.00 55.52      A16S
ATOM  22822  O4   U   A1083     179.302 135.809  -7.012  1.00 55.52      A16S
ATOM  22823  C5   U   A1083     180.193 135.669  -9.207  1.00 55.52      A16S
ATOM  22824  C2*  U   A1083     179.522 138.106 -12.867  1.00 62.20      A16S
ATOM  22825  O2*  U   A1083     178.710 138.874 -13.735  1.00 62.20      A16S
ATOM  22826  C3*  U   A1083     180.644 137.360 -13.588  1.00 62.20      A16S
ATOM  22827  O3*  U   A1083     181.164 138.111 -14.667  1.00 62.20      A16S
ATOM  22828  P    G   A1084     182.731 138.429 -14.726  1.00 42.69      A16S
ATOM  22829  O1P  G   A1084     182.909 139.263 -15.942  1.00 46.99      A16S
ATOM  22830  O2P  G   A1084     183.497 137.170 -14.562  1.00 46.99      A16S
ATOM  22831  O5*  G   A1084     182.998 139.328 -13.447  1.00 42.69      A16S
ATOM  22832  C5*  G   A1084     182.376 140.602 -13.337  1.00 42.69      A16S
ATOM  22833  C4*  G   A1084     182.475 141.103 -11.932  1.00 42.69      A16S
ATOM  22834  O4*  G   A1084     181.721 140.249 -11.050  1.00 42.69      A16S
ATOM  22835  C1*  G   A1084     182.335 140.227  -9.782  1.00 42.69      A16S
ATOM  22836  N9   G   A1084     182.636 138.845  -9.456  1.00 46.99      A16S
ATOM  22837  C4   G   A1084     182.374 138.244  -8.268  1.00 46.99      A16S
ATOM  22838  N3   G   A1084     181.792 138.830  -7.216  1.00 46.99      A16S
ATOM  22839  C2   G   A1084     181.666 138.005  -6.206  1.00 46.99      A16S
ATOM  22840  N2   G   A1084     181.101 138.434  -5.074  1.00 46.99      A16S
ATOM  22841  N1   G   A1084     182.080 136.699  -6.222  1.00 46.99      A16S
ATOM  22842  C6   G   A1084     182.686 136.070  -7.297  1.00 46.99      A16S
ATOM  22843  O6   G   A1084     183.026 134.875  -7.205  1.00 46.99      A16S
ATOM  22844  C5   G   A1084     182.826 136.956  -8.399  1.00 46.99      A16S
ATOM  22845  N7   G   A1084     183.363 136.751  -9.661  1.00 46.99      A16S
ATOM  22846  C8   G   A1084     183.227 137.901 -10.255  1.00 46.99      A16S
ATOM  22847  C2*  G   A1084     183.583 141.105  -9.835  1.00 42.69      A16S
ATOM  22848  O2*  G   A1084     183.274 142.372  -9.284  1.00 42.69      A16S
ATOM  22849  C3*  G   A1084     183.866 141.138 -11.334  1.00 42.69      A16S
ATOM  22850  O3*  G   A1084     184.518 142.322 -11.748  1.00 42.69      A16S
ATOM  22851  P    U   A1085     186.066 142.538 -11.419  1.00 67.77      A16S
ATOM  22852  O1P  U   A1085     186.450 143.724 -12.241  1.00 63.37      A16S
ATOM  22853  O2P  U   A1085     186.270 142.550  -9.940  1.00 63.37      A16S
ATOM  22854  O5*  U   A1085     186.790 141.252 -12.000  1.00 67.77      A16S
ATOM  22855  C5*  U   A1085     188.210 141.260 -12.187  1.00 67.77      A16S
ATOM  22856  C4*  U   A1085     188.752 139.861 -12.151  1.00 67.77      A16S
ATOM  22857  O4*  U   A1085     188.625 139.332 -10.807  1.00 67.77      A16S
ATOM  22858  C1*  U   A1085     187.913 138.115 -10.853  1.00 67.77      A16S
ATOM  22859  N1   U   A1085     187.129 137.962  -9.617  1.00 63.37      A16S
ATOM  22860  C6   U   A1085     186.627 139.038  -8.925  1.00 63.37      A16S
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ATOM  22861  C2  U   A1085     186.932 136.676  -9.158  1.00 63.37      A16S
ATOM  22862  O2  U   A1085     187.327 135.694  -9.759  1.00 63.37      A16S
ATOM  22863  N3  U   A1085     186.255 136.577  -7.974  1.00 63.37      A16S
ATOM  22864  C4  U   A1085     185.756 137.602  -7.224  1.00 63.37      A16S
ATOM  22865  O4  U   A1085     185.227 137.349  -6.147  1.00 63.37      A16S
ATOM  22866  C5  U   A1085     185.965 138.905  -7.776  1.00 63.37      A16S
ATOM  22867  C2* U   A1085     187.108 138.132 -12.150  1.00 67.77      A16S
ATOM  22868  O2* U   A1085     186.777 136.818 -12.547  1.00 67.77      A16S
ATOM  22869  C3* U   A1085     188.060 138.878 -13.089  1.00 67.77      A16S
ATOM  22870  O3* U   A1085     189.059 138.014 -13.638  1.00 67.77      A16S
ATOM  22871  P   U   A1086     189.710 138.353 -15.074  1.00 58.77      A16S
ATOM  22872  O1P U   A1086     190.986 137.601 -15.183  1.00114.21      A16S
ATOM  22873  O2P U   A1086     189.710 139.826 -15.279  1.00114.21      A16S
ATOM  22874  O5* U   A1086     188.672 137.729 -16.100  1.00 58.77      A16S
ATOM  22875  C5* U   A1086     188.528 136.306 -16.261  1.00 58.77      A16S
ATOM  22876  C4* U   A1086     187.692 136.026 -17.486  1.00 58.77      A16S
ATOM  22877  O4* U   A1086     186.306 136.379 -17.227  1.00 58.77      A16S
ATOM  22878  C1* U   A1086     185.822 137.226 -18.258  1.00 58.77      A16S
ATOM  22879  N1  U   A1086     185.758 138.594 -17.705  1.00114.21      A16S
ATOM  22880  C6  U   A1086     186.359 138.896 -16.496  1.00114.21      A16S
ATOM  22881  C2  U   A1086     185.083 139.572 -18.419  1.00114.21      A16S
ATOM  22882  O2  U   A1086     184.541 139.362 -19.498  1.00114.21      A16S
ATOM  22883  N3  U   A1086     185.069 140.812 -17.820  1.00114.21      A16S
ATOM  22884  C4  U   A1086     185.650 141.167 -16.609  1.00114.21      A16S
ATOM  22885  O4  U   A1086     185.528 142.321 -16.185  1.00114.21      A16S
ATOM  22886  C5  U   A1086     186.330 140.107 -15.946  1.00114.21      A16S
ATOM  22887  C2* U   A1086     186.813 137.111 -19.419  1.00 58.77      A16S
ATOM  22888  O2* U   A1086     186.490 136.040 -20.284  1.00 58.77      A16S
ATOM  22889  C3* U   A1086     188.110 136.883 -18.666  1.00 58.77      A16S
ATOM  22890  O3* U   A1086     189.134 136.289 -19.428  1.00 58.77      A16S
ATOM  22891  P   G   A1087     190.267 137.222 -20.061  1.00 57.08      A16S
ATOM  22892  O1P G   A1087     191.187 136.295 -20.762  1.00 68.35      A16S
ATOM  22893  O2P G   A1087     190.810 138.158 -19.041  1.00 68.35      A16S
ATOM  22894  O5* G   A1087     189.457 138.096 -21.109  1.00 57.08      A16S
ATOM  22895  C5* G   A1087     188.574 137.476 -22.045  1.00 57.08      A16S
ATOM  22896  C4* G   A1087     187.958 138.524 -22.922  1.00 57.08      A16S
ATOM  22897  O4* G   A1087     187.004 139.297 -22.155  1.00 57.08      A16S
ATOM  22898  C1* G   A1087     187.096 140.667 -22.514  1.00 57.08      A16S
ATOM  22899  N9  G   A1087     187.578 141.391 -21.345  1.00 68.35      A16S
ATOM  22900  C4  G   A1087     187.646 142.747 -21.205  1.00 68.35      A16S
ATOM  22901  N3  G   A1087     187.289 143.653 -22.136  1.00 68.35      A16S
ATOM  22902  C2  G   A1087     187.486 144.889 -21.721  1.00 68.35      A16S
ATOM  22903  N2  G   A1087     187.224 145.916 -22.550  1.00 68.35      A16S
ATOM  22904  N1  G   A1087     187.968 145.209 -20.472  1.00 68.35      A16S
ATOM  22905  C6  G   A1087     188.333 144.285 -19.495  1.00 68.35      A16S
ATOM  22906  O6  G   A1087     188.750 144.672 -18.397  1.00 68.35      A16S
ATOM  22907  C5  G   A1087     188.155 142.960 -19.943  1.00 68.35      A16S
ATOM  22908  N7  G   A1087     188.417 141.755 -19.306  1.00 68.35      A16S
ATOM  22909  C8  G   A1087     188.058 140.853 -20.173  1.00 68.35      A16S
ATOM  22910  C2* G   A1087     188.082 140.778 -23.677  1.00 57.08      A16S
ATOM  22911  O2* G   A1087     187.402 140.756 -24.924  1.00 57.08      A16S
ATOM  22912  C3* G   A1087     188.949 139.551 -23.441  1.00 57.08      A16S
ATOM  22913  O3* G   A1087     189.606 139.112 -24.604  1.00 57.08      A16S
ATOM  22914  P   G   A1088     191.101 139.590 -24.878  1.00 72.47      A16S
ATOM  22915  O1P G   A1088     191.452 138.955 -26.166  1.00 55.88      A16S
ATOM  22916  O2P G   A1088     191.940 139.336 -23.673  1.00 55.88      A16S
ATOM  22917  O5* G   A1088     190.961 141.165 -25.084  1.00 72.47      A16S
ATOM  22918  C5* G   A1088     190.494 141.701 -26.334  1.00 72.47      A16S
ATOM  22919  C4* G   A1088     190.688 143.202 -26.378  1.00 72.47      A16S
ATOM  22920  O4* G   A1088     189.762 143.848 -25.465  1.00 72.47      A16S
ATOM  22921  C1* G   A1088     190.365 145.002 -24.908  1.00 72.47      A16S
ATOM  22922  N9  G   A1088     190.579 144.774 -23.480  1.00 55.88      A16S
ATOM  22923  C4  G   A1088     190.948 145.728 -22.571  1.00 55.88      A16S
ATOM  22924  N3  G   A1088     191.140 147.034 -22.840  1.00 55.88      A16S
ATOM  22925  C2  G   A1088     191.506 147.706 -21.772  1.00 55.88      A16S
ATOM  22926  N2  G   A1088     191.739 149.015 -21.874  1.00 55.88      A16S
ATOM  22927  N1  G   A1088     191.670 147.143 -20.529  1.00 55.88      A16S
ATOM  22928  C6  G   A1088     191.479 145.797 -20.230  1.00 55.88      A16S
ATOM  22929  O6  G   A1088     191.657 145.389 -19.079  1.00 55.88      A16S
ATOM  22930  C5  G   A1088     191.088 145.062 -21.374  1.00 55.88      A16S
ATOM  22931  N7  G   A1088     190.802 143.713 -21.522  1.00 55.88      A16S
ATOM  22932  C8  G   A1088     190.496 143.588 -22.785  1.00 55.88      A16S
ATOM  22933  C2* G   A1088     191.720 145.174 -25.588  1.00 72.47      A16S
ATOM  22934  O2* G   A1088     191.590 146.009 -26.719  1.00 72.47      A16S
ATOM  22935  C3* G   A1088     192.045 143.738 -25.957  1.00 72.47      A16S
ATOM  22936  O3* G   A1088     193.039 143.663 -26.952  1.00 72.47      A16S
ATOM  22937  P   G   A1089     194.567 143.481 -26.508  1.00 64.97      A16S
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ATOM	22938	O1P	G	A1089	195.346	143.303	-27.750	1.00 55.95	A16S
ATOM	22939	O2P	G	A1089	194.651	142.456	-25.439	1.00 55.95	A16S
ATOM	22940	O5*	G	A1089	194.942	144.891	-25.878	1.00 64.97	A16S
ATOM	22941	C5*	G	A1089	195.110	146.045	-26.724	1.00 64.97	A16S
ATOM	22942	C4*	G	A1089	195.573	147.231	-25.913	1.00 64.97	A16S
ATOM	22943	O4*	G	A1089	194.525	147.588	-24.977	1.00 64.97	A16S
ATOM	22944	C1*	G	A1089	195.098	147.992	-23.748	1.00 64.97	A16S
ATOM	22945	N9	G	A1089	194.777	146.993	-22.738	1.00 55.95	A16S
ATOM	22946	C4	G	A1089	194.945	147.151	-21.388	1.00 55.95	A16S
ATOM	22947	N3	G	A1089	195.385	148.266	-20.778	1.00 55.95	A16S
ATOM	22948	C2	G	A1089	195.472	148.112	-19.482	1.00 55.95	A16S
ATOM	22949	N2	G	A1089	195.900	149.125	-18.731	1.00 55.95	A16S
ATOM	22950	N1	G	A1089	195.150	146.954	-18.829	1.00 55.95	A16S
ATOM	22951	C6	G	A1089	194.695	145.791	-19.439	1.00 55.95	A16S
ATOM	22952	O6	G	A1089	194.436	144.794	-18.758	1.00 55.95	A16S
ATOM	22953	C5	G	A1089	194.598	145.942	-20.831	1.00 55.95	A16S
ATOM	22954	N7	G	A1089	194.198	145.041	-21.811	1.00 55.95	A16S
ATOM	22955	C8	G	A1089	194.309	145.711	-22.926	1.00 55.95	A16S
ATOM	22956	C2*	G	A1089	196.612	148.004	-23.927	1.00 64.97	A16S
ATOM	22957	O2*	G	A1089	197.061	149.286	-24.288	1.00 64.97	A16S
ATOM	22958	C3*	G	A1089	196.787	146.982	-25.034	1.00 64.97	A16S
ATOM	22959	O3*	G	A1089	198.036	147.114	-25.683	1.00 64.97	A16S
ATOM	22960	P	U	A1090	199.299	146.314	-25.097	1.00 66.31	A16S
ATOM	22961	O1P	U	A1090	200.473	146.623	-25.958	1.00 66.57	A16S
ATOM	22962	O2P	U	A1090	198.892	144.897	-24.883	1.00 66.57	A16S
ATOM	22963	O5*	U	A1090	199.535	146.955	-23.657	1.00 66.31	A16S
ATOM	22964	C5*	U	A1090	199.946	148.321	-23.515	1.00 66.31	A16S
ATOM	22965	C4*	U	A1090	200.067	148.673	-22.058	1.00 66.31	A16S
ATOM	22966	O4*	U	A1090	198.779	148.452	-21.421	1.00 66.31	A16S
ATOM	22967	C1*	U	A1090	198.973	147.992	-20.089	1.00 66.31	A16S
ATOM	22968	N1	U	A1090	198.378	146.652	-19.953	1.00 66.57	A16S
ATOM	22969	C6	U	A1090	198.071	145.890	-21.053	1.00 66.57	A16S
ATOM	22970	C2	U	A1090	198.159	146.166	-18.675	1.00 66.57	A16S
ATOM	22971	O2	U	A1090	198.391	146.809	-17.669	1.00 66.57	A16S
ATOM	22972	N3	U	A1090	197.663	144.892	-18.616	1.00 66.57	A16S
ATOM	22973	C4	U	A1090	197.362	144.069	-19.674	1.00 66.57	A16S
ATOM	22974	O4	U	A1090	196.970	142.920	-19.456	1.00 66.57	A16S
ATOM	22975	C5	U	A1090	197.586	144.649	-20.960	1.00 66.57	A16S
ATOM	22976	C2*	U	A1090	200.479	147.946	-19.834	1.00 66.31	A16S
ATOM	22977	O2*	U	A1090	200.915	149.123	-19.182	1.00 66.31	A16S
ATOM	22978	C3*	U	A1090	201.019	147.810	-21.249	1.00 66.31	A16S
ATOM	22979	O3*	U	A1090	202.381	148.187	-21.337	1.00 66.31	A16S
ATOM	22980	P	U	A1091	203.516	147.085	-21.031	1.00 51.13	A16S
ATOM	22981	O1P	U	A1091	204.831	147.655	-21.430	1.00 66.09	A16S
ATOM	22982	O2P	U	A1091	203.072	145.783	-21.608	1.00 66.09	A16S
ATOM	22983	O5*	U	A1091	203.498	146.919	-19.446	1.00 51.13	A16S
ATOM	22984	C5*	U	A1091	203.905	147.997	-18.596	1.00 51.13	A16S
ATOM	22985	C4*	U	A1091	203.729	147.621	-17.149	1.00 51.13	A16S
ATOM	22986	O4*	U	A1091	202.340	147.288	-16.908	1.00 51.13	A16S
ATOM	22987	C1*	U	A1091	202.253	146.306	-15.889	1.00 51.13	A16S
ATOM	22988	N1	U	A1091	201.511	145.140	-16.400	1.00 66.09	A16S
ATOM	22989	C6	U	A1091	201.084	145.066	-17.701	1.00 66.09	A16S
ATOM	22990	C2	U	A1091	201.255	144.111	-15.521	1.00 66.09	A16S
ATOM	22991	O2	U	A1091	201.609	144.126	-14.375	1.00 66.09	A16S
ATOM	22992	N3	U	A1091	200.570	143.053	-16.039	1.00 66.09	A16S
ATOM	22993	C4	U	A1091	200.111	142.914	-17.319	1.00 66.09	A16S
ATOM	22994	O4	U	A1091	199.461	141.907	-17.622	1.00 66.09	A16S
ATOM	22995	C5	U	A1091	200.411	144.017	-18.179	1.00 66.09	A16S
ATOM	22996	C2*	U	A1091	203.677	145.976	-15.443	1.00 51.13	A16S
ATOM	22997	O2*	U	A1091	203.981	146.724	-14.282	1.00 51.13	A16S
ATOM	22998	C3*	U	A1091	204.491	146.405	-16.658	1.00 51.13	A16S
ATOM	22999	O3*	U	A1091	205.837	146.710	-16.316	1.00 51.13	A16S
ATOM	23000	P	A	A1092	206.990	145.629	-16.611	1.00 51.33	A16S
ATOM	23001	O1P	A	A1092	206.866	145.235	-18.040	1.00 71.24	A16S
ATOM	23002	O2P	A	A1092	208.300	146.095	-16.079	1.00 71.24	A16S
ATOM	23003	O5*	A	A1092	206.578	144.380	-15.734	1.00 51.33	A16S
ATOM	23004	C5*	A	A1092	207.266	143.146	-15.879	1.00 51.33	A16S
ATOM	23005	C4*	A	A1092	207.112	142.338	-14.628	1.00 51.33	A16S
ATOM	23006	O4*	A	A1092	207.812	143.002	-13.550	1.00 51.33	A16S
ATOM	23007	C1*	A	A1092	207.047	142.923	-12.364	1.00 51.33	A16S
ATOM	23008	N9	A	A1092	206.723	144.299	-11.976	1.00 71.24	A16S
ATOM	23009	C4	A	A1092	206.373	144.758	-10.730	1.00 71.24	A16S
ATOM	23010	N3	A	A1092	206.206	144.036	-9.615	1.00 71.24	A16S
ATOM	23011	C2	A	A1092	205.896	144.824	-8.596	1.00 71.24	A16S
ATOM	23012	N1	A	A1092	205.753	146.149	-8.565	1.00 71.24	A16S
ATOM	23013	C6	A	A1092	205.932	146.843	-9.702	1.00 71.24	A16S
ATOM	23014	N6	A	A1092	205.799	148.168	-9.669	1.00 71.24	A16S

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ATOM  23015  C5  A  A1092     206.251 146.128 -10.854  1.00 71.24      A16S
ATOM  23016  N7  A  A1092     206.481 146.529 -12.160  1.00 71.24      A16S
ATOM  23017  C8  A  A1092     206.749 145.411 -12.787  1.00 71.24      A16S
ATOM  23018  C2* A  A1092     205.842 142.023 -12.656  1.00 51.33      A16S
ATOM  23019  O2* A  A1092     206.173 140.682 -12.351  1.00 51.33      A16S
ATOM  23020  C3* A  A1092     205.679 142.223 -14.152  1.00 51.33      A16S
ATOM  23021  O3* A  A1092     205.003 141.176 -14.822  1.00 51.33      A16S
ATOM  23022  P   A  A1093     203.523 141.436 -15.379  1.00 54.09      A16S
ATOM  23023  O1P A  A1093     203.115 140.232 -16.141  1.00 54.27      A16S
ATOM  23024  O2P A  A1093     203.443 142.761 -16.030  1.00 54.27      A16S
ATOM  23025  O5* A  A1093     202.685 141.472 -14.032  1.00 54.09      A16S
ATOM  23026  C5* A  A1093     202.712 140.337 -13.151  1.00 54.09      A16S
ATOM  23027  C4* A  A1093     202.012 140.658 -11.862  1.00 54.09      A16S
ATOM  23028  O4* A  A1093     202.814 141.589 -11.104  1.00 54.09      A16S
ATOM  23029  C1* A  A1093     201.971 142.463 -10.389  1.00 54.09      A16S
ATOM  23030  N9  A  A1093     202.293 143.834 -10.788  1.00 54.27      A16S
ATOM  23031  C4  A  A1093     202.387 144.930  -9.965  1.00 54.27      A16S
ATOM  23032  N3  A  A1093     202.231 144.969  -8.632  1.00 54.27      A16S
ATOM  23033  C2  A  A1093     202.384 146.209  -8.178  1.00 54.27      A16S
ATOM  23034  N1  A  A1093     202.649 147.331  -8.850  1.00 54.27      A16S
ATOM  23035  C6  A  A1093     202.800 147.256 -10.188  1.00 54.27      A16S
ATOM  23036  N6  A  A1093     203.060 148.375 -10.864  1.00 54.27      A16S
ATOM  23037  C5  A  A1093     202.671 145.995 -10.791  1.00 54.27      A16S
ATOM  23038  N7  A  A1093     202.778 145.577 -12.108  1.00 54.27      A16S
ATOM  23039  C8  A  A1093     202.551 144.292 -12.047  1.00 54.27      A16S
ATOM  23040  C2* A  A1093     200.520 142.046 -10.667  1.00 54.09      A16S
ATOM  23041  O2* A  A1093     200.093 141.173  -9.635  1.00 54.09      A16S
ATOM  23042  C3* A  A1093     200.651 141.317 -11.995  1.00 54.09      A16S
ATOM  23043  O3* A  A1093     199.641 140.330 -12.159  1.00 54.09      A16S
ATOM  23044  P   G  A1094     198.659 140.392 -13.424  1.00 48.54      A16S
ATOM  23045  O1P G  A1094     199.247 141.293 -14.434  1.00 62.94      A16S
ATOM  23046  O2P G  A1094     198.316 139.000 -13.798  1.00 62.94      A16S
ATOM  23047  O5* G  A1094     197.363 141.122 -12.868  1.00 48.54      A16S
ATOM  23048  C5* G  A1094     196.288 140.378 -12.254  1.00 48.54      A16S
ATOM  23049  C4* G  A1094     195.557 141.258 -11.264  1.00 48.54      A16S
ATOM  23050  O4* G  A1094     194.208 140.776 -11.034  1.00 48.54      A16S
ATOM  23051  C1* G  A1094     193.966 140.727  -9.651  1.00 48.54      A16S
ATOM  23052  N9  G  A1094     193.065 139.623  -9.368  1.00 62.94      A16S
ATOM  23053  C4  G  A1094     191.774 139.731  -8.919  1.00 62.94      A16S
ATOM  23054  N3  G  A1094     191.112 140.881  -8.687  1.00 62.94      A16S
ATOM  23055  C2  G  A1094     189.898 140.659  -8.232  1.00 62.94      A16S
ATOM  23056  N2  G  A1094     189.100 141.691  -7.949  1.00 62.94      A16S
ATOM  23057  N1  G  A1094     189.375 139.408  -8.022  1.00 62.94      A16S
ATOM  23058  C6  G  A1094     190.040 138.212  -8.261  1.00 62.94      A16S
ATOM  23059  O6  G  A1094     189.478 137.135  -8.044  1.00 62.94      A16S
ATOM  23060  C5  G  A1094     191.339 138.436  -8.747  1.00 62.94      A16S
ATOM  23061  N7  G  A1094     192.329 137.533  -9.100  1.00 62.94      A16S
ATOM  23062  C8  G  A1094     193.331 138.282  -9.468  1.00 62.94      A16S
ATOM  23063  C2* G  A1094     195.328 140.587  -8.981  1.00 48.54      A16S
ATOM  23064  O2* G  A1094     195.247 141.065  -7.649  1.00 48.54      A16S
ATOM  23065  C3* G  A1094     196.205 141.441  -9.893  1.00 48.54      A16S
ATOM  23066  O3* G  A1094     196.093 142.808  -9.513  1.00 48.54      A16S
ATOM  23067  P   U  A1095     197.058 143.408  -8.380  1.00 65.10      A16S
ATOM  23068  O1P U  A1095     198.134 142.422  -8.127  1.00 67.89      A16S
ATOM  23069  O2P U  A1095     196.200 143.859  -7.249  1.00 67.89      A16S
ATOM  23070  O5* U  A1095     197.688 144.676  -9.105  1.00 65.10      A16S
ATOM  23071  C5* U  A1095     198.711 145.458  -8.475  1.00 65.10      A16S
ATOM  23072  C4* U  A1095     198.992 146.692  -9.289  1.00 65.10      A16S
ATOM  23073  O4* U  A1095     199.774 146.370 -10.463  1.00 65.10      A16S
ATOM  23074  C1* U  A1095     199.385 147.209 -11.538  1.00 65.10      A16S
ATOM  23075  N1  U  A1095     198.951 146.384 -12.678  1.00 67.89      A16S
ATOM  23076  C6  U  A1095     198.693 145.038 -12.543  1.00 67.89      A16S
ATOM  23077  C2  U  A1095     198.810 147.009 -13.906  1.00 67.89      A16S
ATOM  23078  O2  U  A1095     199.024 148.196 -14.075  1.00 67.89      A16S
ATOM  23079  N3  U  A1095     198.405 146.193 -14.930  1.00 67.89      A16S
ATOM  23080  C4  U  A1095     198.129 144.847 -14.859  1.00 67.89      A16S
ATOM  23081  O4  U  A1095     197.727 144.260 -15.861  1.00 67.89      A16S
ATOM  23082  C5  U  A1095     198.300 144.269 -13.565  1.00 67.89      A16S
ATOM  23083  C2* U  A1095     198.286 148.137 -11.030  1.00 65.10      A16S
ATOM  23084  O2* U  A1095     198.863 149.364 -10.645  1.00 65.10      A16S
ATOM  23085  C3* U  A1095     197.754 147.365  -9.837  1.00 65.10      A16S
ATOM  23086  O3* U  A1095     197.168 148.215  -8.878  1.00 65.10      A16S
ATOM  23087  P   C  A1096     195.589 148.480  -8.929  1.00 49.99      A16S
ATOM  23088  O1P C  A1096     195.290 149.291  -7.720  1.00 55.87      A16S
ATOM  23089  O2P C  A1096     194.927 147.150  -9.105  1.00 55.87      A16S
ATOM  23090  O5* C  A1096     195.390 149.395 -10.225  1.00 49.99      A16S
ATOM  23091  C5* C  A1096     195.786 150.773 -10.187  1.00 49.99      A16S
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ATOM  23092  C4* C   A1096     195.946 151.329 -11.575  1.00 49.99      A16S
ATOM  23093  O4* C   A1096     196.824 150.461 -12.327  1.00 49.99      A16S
ATOM  23094  C1* C   A1096     196.468 150.495 -13.698  1.00 49.99      A16S
ATOM  23095  N1   C   A1096     196.096 149.142 -14.131  1.00 55.87      A16S
ATOM  23096  C6   C   A1096     195.873 148.145 -13.226  1.00 55.87      A16S
ATOM  23097  C2   C   A1096     195.944 148.903 -15.496  1.00 55.87      A16S
ATOM  23098  O2   C   A1096     196.179 149.821 -16.294  1.00 55.87      A16S
ATOM  23099  N3   C   A1096     195.543 147.689 -15.913  1.00 55.87      A16S
ATOM  23100  C4   C   A1096     195.296 146.732 -15.023  1.00 55.87      A16S
ATOM  23101  N4   C   A1096     194.865 145.557 -15.476  1.00 55.87      A16S
ATOM  23102  C5   C   A1096     195.471 146.938 -13.626  1.00 55.87      A16S
ATOM  23103  C2* C   A1096     195.275 151.437 -13.852  1.00 49.99      A16S
ATOM  23104  O2* C   A1096     195.706 152.701 -14.312  1.00 49.99      A16S
ATOM  23105  C3* C   A1096     194.700 151.437 -12.440  1.00 49.99      A16S
ATOM  23106  O3* C   A1096     193.945 152.615 -12.191  1.00 49.99      A16S
ATOM  23107  P    C   A1097     192.447 152.728 -12.763  1.00 78.91      A16S
ATOM  23108  O1P C   A1097     191.926 154.033 -12.305  1.00 56.74      A16S
ATOM  23109  O2P C   A1097     191.690 151.493 -12.463  1.00 56.74      A16S
ATOM  23110  O5* C   A1097     192.637 152.790 -14.338  1.00 78.91      A16S
ATOM  23111  C5* C   A1097     193.230 153.937 -14.957  1.00 78.91      A16S
ATOM  23112  C4* C   A1097     193.146 153.810 -16.450  1.00 78.91      A16S
ATOM  23113  O4* C   A1097     193.922 152.661 -16.869  1.00 78.91      A16S
ATOM  23114  C1* C   A1097     193.263 152.005 -17.939  1.00 78.91      A16S
ATOM  23115  N1   C   A1097     192.942 150.630 -17.521  1.00 56.74      A16S
ATOM  23116  C6   C   A1097     192.935 150.279 -16.201  1.00 56.74      A16S
ATOM  23117  C2   C   A1097     192.642 149.682 -18.502  1.00 56.74      A16S
ATOM  23118  O2   C   A1097     192.658 150.028 -19.691  1.00 56.74      A16S
ATOM  23119  N3   C   A1097     192.345 148.416 -18.131  1.00 56.74      A16S
ATOM  23120  C4   C   A1097     192.355 148.083 -16.839  1.00 56.74      A16S
ATOM  23121  N4   C   A1097     192.081 146.817 -16.513  1.00 56.74      A16S
ATOM  23122  C5   C   A1097     192.652 149.031 -15.822  1.00 56.74      A16S
ATOM  23123  C2* C   A1097     192.009 152.810 -18.282  1.00 78.91      A16S
ATOM  23124  O2* C   A1097     192.276 153.700 -19.344  1.00 78.91      A16S
ATOM  23125  C3* C   A1097     191.748 153.535 -16.973  1.00 78.91      A16S
ATOM  23126  O3* C   A1097     191.004 154.722 -17.159  1.00 78.91      A16S
ATOM  23127  P    C   A1098     189.417 154.694 -16.932  1.00 67.74      A16S
ATOM  23128  O1P C   A1098     188.940 156.104 -17.055  1.00 52.64      A16S
ATOM  23129  O2P C   A1098     189.155 153.926 -15.672  1.00 52.64      A16S
ATOM  23130  O5* C   A1098     188.870 153.901 -18.200  1.00 67.74      A16S
ATOM  23131  C5* C   A1098     188.839 154.547 -19.477  1.00 67.74      A16S
ATOM  23132  C4* C   A1098     188.418 153.584 -20.552  1.00 67.74      A16S
ATOM  23133  O4* C   A1098     189.369 152.501 -20.623  1.00 67.74      A16S
ATOM  23134  C1* C   A1098     188.713 151.321 -21.043  1.00 67.74      A16S
ATOM  23135  N1   C   A1098     188.883 150.291 -20.012  1.00 52.64      A16S
ATOM  23136  C6   C   A1098     189.368 150.607 -18.777  1.00 52.64      A16S
ATOM  23137  C2   C   A1098     188.531 148.976 -20.316  1.00 52.64      A16S
ATOM  23138  O2   C   A1098     188.103 148.714 -21.450  1.00 52.64      A16S
ATOM  23139  N3   C   A1098     188.666 148.025 -19.375  1.00 52.64      A16S
ATOM  23140  C4   C   A1098     189.133 148.346 -18.171  1.00 52.64      A16S
ATOM  23141  N4   C   A1098     189.238 147.380 -17.266  1.00 52.64      A16S
ATOM  23142  C5   C   A1098     189.509 149.674 -17.837  1.00 52.64      A16S
ATOM  23143  C2* C   A1098     187.243 151.660 -21.260  1.00 67.74      A16S
ATOM  23144  O2* C   A1098     187.041 151.954 -22.626  1.00 67.74      A16S
ATOM  23145  C3* C   A1098     187.082 152.887 -20.380  1.00 67.74      A16S
ATOM  23146  O3* C   A1098     185.999 153.680 -20.824  1.00 67.74      A16S
ATOM  23147  P    G   A1099     184.566 153.516 -20.119  1.00 67.35      A16S
ATOM  23148  O1P G   A1099     183.667 154.538 -20.738  1.00 55.52      A16S
ATOM  23149  O2P G   A1099     184.794 153.525 -18.648  1.00 55.52      A16S
ATOM  23150  O5* G   A1099     184.091 152.046 -20.524  1.00 67.35      A16S
ATOM  23151  C5* G   A1099     183.849 151.700 -21.899  1.00 67.35      A16S
ATOM  23152  C4* G   A1099     183.750 150.198 -22.067  1.00 67.35      A16S
ATOM  23153  O4* G   A1099     184.934 149.571 -21.515  1.00 67.35      A16S
ATOM  23154  C1* G   A1099     184.620 148.254 -21.107  1.00 67.35      A16S
ATOM  23155  N9   G   A1099     185.028 148.050 -19.723  1.00 55.52      A16S
ATOM  23156  C4   G   A1099     184.967 146.851 -19.073  1.00 55.52      A16S
ATOM  23157  N3   G   A1099     184.518 145.697 -19.605  1.00 55.52      A16S
ATOM  23158  C2   G   A1099     184.586 144.696 -18.748  1.00 55.52      A16S
ATOM  23159  N2   G   A1099     184.178 143.477 -19.123  1.00 55.52      A16S
ATOM  23160  N1   G   A1099     185.056 144.815 -17.462  1.00 55.52      A16S
ATOM  23161  C6   G   A1099     185.519 145.991 -16.884  1.00 55.52      A16S
ATOM  23162  O6   G   A1099     185.911 145.980 -15.704  1.00 55.52      A16S
ATOM  23163  C5   G   A1099     185.456 147.088 -17.808  1.00 55.52      A16S
ATOM  23164  N7   G   A1099     185.815 148.423 -17.663  1.00 55.52      A16S
ATOM  23165  C8   G   A1099     185.540 148.957 -18.825  1.00 55.52      A16S
ATOM  23166  C2* G   A1099     183.126 148.040 -21.296  1.00 67.35      A16S
ATOM  23167  O2* G   A1099     182.910 147.339 -22.500  1.00 67.35      A16S
ATOM  23168  C3* G   A1099     182.619 149.472 -21.357  1.00 67.35      A16S
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ATOM  23169  O3*  G   A1099     181.389 149.532 -22.054  1.00 67.35      A16S
ATOM  23170  P    C   A1100     180.029 149.700 -21.219  1.00 44.66      A16S
ATOM  23171  O1P  C   A1100     178.938 149.897 -22.209  1.00 64.78      A16S
ATOM  23172  O2P  C   A1100     180.277 150.735 -20.180  1.00 64.78      A16S
ATOM  23173  O5*  C   A1100     179.846 148.304 -20.467  1.00 44.66      A16S
ATOM  23174  C5*  C   A1100     179.518 147.104 -21.196  1.00 44.66      A16S
ATOM  23175  C4*  C   A1100     179.550 145.896 -20.280  1.00 44.66      A16S
ATOM  23176  O4*  C   A1100     180.864 145.770 -19.696  1.00 44.66      A16S
ATOM  23177  C1*  C   A1100     180.761 145.251 -18.389  1.00 44.66      A16S
ATOM  23178  N1   C   A1100     181.412 146.188 -17.475  1.00 64.78      A16S
ATOM  23179  C6   C   A1100     181.289 147.536 -17.639  1.00 64.78      A16S
ATOM  23180  C2   C   A1100     182.169 145.674 -16.439  1.00 64.78      A16S
ATOM  23181  O2   C   A1100     182.255 144.446 -16.318  1.00 64.78      A16S
ATOM  23182  N3   C   A1100     182.795 146.515 -15.594  1.00 64.78      A16S
ATOM  23183  C4   C   A1100     182.686 147.829 -15.765  1.00 64.78      A16S
ATOM  23184  N4   C   A1100     183.344 148.626 -14.917  1.00 64.78      A16S
ATOM  23185  C5   C   A1100     181.904 148.386 -16.816  1.00 64.78      A16S
ATOM  23186  C2*  C   A1100     179.290 145.002 -18.084  1.00 44.66      A16S
ATOM  23187  O2*  C   A1100     179.043 143.622 -18.259  1.00 44.66      A16S
ATOM  23188  C3*  C   A1100     178.606 145.924 -19.094  1.00 44.66      A16S
ATOM  23189  O3*  C   A1100     177.327 145.462 -19.501  1.00 44.66      A16S
ATOM  23190  P    A   A1101     176.015 146.313 -19.133  1.00 48.00      A16S
ATOM  23191  O1P  A   A1101     175.005 145.963 -20.173  1.00 51.13      A16S
ATOM  23192  O2P  A   A1101     176.371 147.738 -18.912  1.00 51.13      A16S
ATOM  23193  O5*  A   A1101     175.562 145.687 -17.741  1.00 48.00      A16S
ATOM  23194  C5*  A   A1101     175.329 144.275 -17.619  1.00 48.00      A16S
ATOM  23195  C4*  A   A1101     176.072 143.746 -16.428  1.00 48.00      A16S
ATOM  23196  O4*  A   A1101     175.421 144.236 -15.226  1.00 48.00      A16S
ATOM  23197  C1*  A   A1101     175.048 143.156 -14.393  1.00 48.00      A16S
ATOM  23198  N9   A   A1101     173.687 143.398 -13.899  1.00 51.13      A16S
ATOM  23199  C4   A   A1101     173.291 143.468 -12.582  1.00 51.13      A16S
ATOM  23200  N3   A   A1101     174.061 143.332 -11.487  1.00 51.13      A16S
ATOM  23201  C2   A   A1101     173.335 143.480 -10.387  1.00 51.13      A16S
ATOM  23202  N1   A   A1101     172.030 143.728 -10.264  1.00 51.13      A16S
ATOM  23203  C6   A   A1101     171.285 143.849 -11.379  1.00 51.13      A16S
ATOM  23204  N6   A   A1101     169.981 144.089 -11.252  1.00 51.13      A16S
ATOM  23205  C5   A   A1101     171.929 143.714 -12.609  1.00 51.13      A16S
ATOM  23206  N7   A   A1101     171.466 143.789 -13.913  1.00 51.13      A16S
ATOM  23207  C8   A   A1101     172.542 143.597 -14.640  1.00 51.13      A16S
ATOM  23208  C2*  A   A1101     175.097 141.889 -15.237  1.00 48.00      A16S
ATOM  23209  O2*  A   A1101     175.391 140.772 -14.425  1.00 48.00      A16S
ATOM  23210  C3*  A   A1101     176.136 142.230 -16.307  1.00 48.00      A16S
ATOM  23211  O3*  A   A1101     177.494 141.728 -16.195  1.00 48.00      A16S
ATOM  23212  P    A   A1102     178.429 142.135 -14.950  1.00 62.33      A16S
ATOM  23213  O1P  A   A1102     179.742 141.477 -15.106  1.00 44.35      A16S
ATOM  23214  O2P  A   A1102     177.689 141.971 -13.684  1.00 44.35      A16S
ATOM  23215  O5*  A   A1102     178.674 143.680 -15.182  1.00 62.33      A16S
ATOM  23216  C5*  A   A1102     179.367 144.433 -14.214  1.00 62.33      A16S
ATOM  23217  C4*  A   A1102     178.390 145.090 -13.286  1.00 62.33      A16S
ATOM  23218  O4*  A   A1102     177.555 144.100 -12.649  1.00 62.33      A16S
ATOM  23219  C1*  A   A1102     177.329 144.466 -11.305  1.00 62.33      A16S
ATOM  23220  N9   A   A1102     177.808 143.387 -10.452  1.00 44.35      A16S
ATOM  23221  C4   A   A1102     177.514 143.228  -9.125  1.00 44.35      A16S
ATOM  23222  N3   A   A1102     176.729 144.010  -8.368  1.00 44.35      A16S
ATOM  23223  C2   A   A1102     176.679 143.549  -7.127  1.00 44.35      A16S
ATOM  23224  N1   A   A1102     177.286 142.481  -6.594  1.00 44.35      A16S
ATOM  23225  C6   A   A1102     178.077 141.730  -7.382  1.00 44.35      A16S
ATOM  23226  N6   A   A1102     178.705 140.688  -6.844  1.00 44.35      A16S
ATOM  23227  C5   A   A1102     178.199 142.101  -8.721  1.00 44.35      A16S
ATOM  23228  N7   A   A1102     178.899 141.549  -9.778  1.00 44.35      A16S
ATOM  23229  C8   A   A1102     178.635 142.347 -10.779  1.00 44.35      A16S
ATOM  23230  C2*  A   A1102     178.038 145.798 -11.042  1.00 62.33      A16S
ATOM  23231  O2*  A   A1102     177.101 146.854 -11.122  1.00 62.33      A16S
ATOM  23232  C3*  A   A1102     179.072 145.829 -12.161  1.00 62.33      A16S
ATOM  23233  O3*  A   A1102     179.354 147.133 -12.637  1.00 62.33      A16S
ATOM  23234  P    C   A1103     180.506 147.996 -11.950  1.00 57.08      A16S
ATOM  23235  O1P  C   A1103     180.449 149.285 -12.709  1.00 42.32      A16S
ATOM  23236  O2P  C   A1103     181.784 147.226 -11.890  1.00 42.32      A16S
ATOM  23237  O5*  C   A1103     179.957 148.198 -10.470  1.00 57.08      A16S
ATOM  23238  C5*  C   A1103     178.903 149.140 -10.219  1.00 57.08      A16S
ATOM  23239  C4*  C   A1103     178.799 149.416  -8.751  1.00 57.08      A16S
ATOM  23240  O4*  C   A1103     178.146 148.306  -8.101  1.00 57.08      A16S
ATOM  23241  C1*  C   A1103     178.739 148.076  -6.842  1.00 57.08      A16S
ATOM  23242  N1   C   A1103     179.300 146.723  -6.855  1.00 42.32      A16S
ATOM  23243  C6   C   A1103     179.712 146.153  -8.026  1.00 42.32      A16S
ATOM  23244  C2   C   A1103     179.404 146.014  -5.646  1.00 42.32      A16S
ATOM  23245  O2   C   A1103     179.023 146.549  -4.597  1.00 42.32      A16S
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ATOM  23246  N3  C   A1103     179.910 144.766  -5.655  1.00 42.32      A16S
ATOM  23247  C4  C   A1103     180.295 144.214  -6.803  1.00 42.32      A16S
ATOM  23248  N4  C   A1103     180.767 142.974  -6.765  1.00 42.32      A16S
ATOM  23249  C5  C   A1103     180.209 144.913  -8.046  1.00 42.32      A16S
ATOM  23250  C2* C   A1103     179.801 149.150  -6.618  1.00 57.08      A16S
ATOM  23251  O2* C   A1103     179.243 150.193  -5.848  1.00 57.08      A16S
ATOM  23252  C3* C   A1103     180.135 149.550  -8.050  1.00 57.08      A16S
ATOM  23253  O3* C   A1103     180.680 150.858  -8.186  1.00 57.08      A16S
ATOM  23254  P   G   A1104     182.187 151.133  -7.703  1.00 53.03      A16S
ATOM  23255  O1P G   A1104     182.403 152.608  -7.751  1.00 48.10      A16S
ATOM  23256  O2P G   A1104     183.085 150.227  -8.468  1.00 48.10      A16S
ATOM  23257  O5* G   A1104     182.152 150.676  -6.174  1.00 53.03      A16S
ATOM  23258  C5* G   A1104     183.318 150.213  -5.496  1.00 53.03      A16S
ATOM  23259  C4* G   A1104     182.922 149.610  -4.175  1.00 53.03      A16S
ATOM  23260  O4* G   A1104     182.010 148.516  -4.415  1.00 53.03      A16S
ATOM  23261  C1* G   A1104     182.277 147.456  -3.504  1.00 53.03      A16S
ATOM  23262  N9  G   A1104     182.664 146.276  -4.272  1.00 48.10      A16S
ATOM  23263  C4  G   A1104     182.844 145.010  -3.788  1.00 48.10      A16S
ATOM  23264  N3  G   A1104     182.687 144.625  -2.508  1.00 48.10      A16S
ATOM  23265  C2  G   A1104     182.918 143.332  -2.350  1.00 48.10      A16S
ATOM  23266  N2  G   A1104     182.795 142.773  -1.139  1.00 48.10      A16S
ATOM  23267  N1  G   A1104     183.286 142.494  -3.369  1.00 48.10      A16S
ATOM  23268  C6  G   A1104     183.473 142.881  -4.692  1.00 48.10      A16S
ATOM  23269  O6  G   A1104     183.840 142.055  -5.531  1.00 48.10      A16S
ATOM  23270  C5  G   A1104     183.210 144.251  -4.874  1.00 48.10      A16S
ATOM  23271  N7  G   A1104     183.259 145.020  -6.021  1.00 48.10      A16S
ATOM  23272  C8  G   A1104     182.926 146.213  -5.618  1.00 48.10      A16S
ATOM  23273  C2* G   A1104     183.388 147.915  -2.561  1.00 53.03      A16S
ATOM  23274  O2* G   A1104     182.850 148.420  -1.360  1.00 53.03      A16S
ATOM  23275  C3* G   A1104     184.065 148.986  -3.399  1.00 53.03      A16S
ATOM  23276  O3* G   A1104     184.736 149.937  -2.602  1.00 53.03      A16S
ATOM  23277  P   A   A1105     186.317 149.790  -2.369  1.00 58.14      A16S
ATOM  23278  O1P A   A1105     186.756 151.033  -1.663  1.00 63.64      A16S
ATOM  23279  O2P A   A1105     186.948 149.427  -3.676  1.00 63.64      A16S
ATOM  23280  O5* A   A1105     186.421 148.558  -1.360  1.00 58.14      A16S
ATOM  23281  C5* A   A1105     185.799 148.635  -0.079  1.00 58.14      A16S
ATOM  23282  C4* A   A1105     185.708 147.277   0.546  1.00 58.14      A16S
ATOM  23283  O4* A   A1105     184.920 146.407  -0.295  1.00 58.14      A16S
ATOM  23284  C1* A   A1105     185.397 145.077  -0.173  1.00 58.14      A16S
ATOM  23285  N9  A   A1105     185.769 144.594  -1.502  1.00 63.64      A16S
ATOM  23286  C4  A   A1105     186.176 143.319  -1.806  1.00 63.64      A16S
ATOM  23287  N3  A   A1105     186.311 142.286  -0.959  1.00 63.64      A16S
ATOM  23288  C2  A   A1105     186.719 141.202  -1.608  1.00 63.64      A16S
ATOM  23289  N1  A   A1105     186.990 141.045  -2.908  1.00 63.64      A16S
ATOM  23290  C6  A   A1105     186.846 142.105  -3.731  1.00 63.64      A16S
ATOM  23291  N6  A   A1105     187.117 141.951  -5.030  1.00 63.64      A16S
ATOM  23292  C5  A   A1105     186.415 143.315  -3.165  1.00 63.64      A16S
ATOM  23293  N7  A   A1105     186.165 144.567  -3.713  1.00 63.64      A16S
ATOM  23294  C8  A   A1105     185.790 145.288  -2.688  1.00 63.64      A16S
ATOM  23295  C2* A   A1105     186.573 145.086   0.805  1.00 58.14      A16S
ATOM  23296  O2* A   A1105     186.124 144.710   2.092  1.00 58.14      A16S
ATOM  23297  C3* A   A1105     187.014 146.540   0.741  1.00 58.14      A16S
ATOM  23298  O3* A   A1105     187.617 146.935   1.943  1.00 58.14      A16S
ATOM  23299  P   G   A1106     189.214 146.979   2.048  1.00 52.44      A16S
ATOM  23300  O1P G   A1106     189.492 147.895   3.187  1.00 63.60      A16S
ATOM  23301  O2P G   A1106     189.792 147.276   0.703  1.00 63.60      A16S
ATOM  23302  O5* G   A1106     189.615 145.507   2.504  1.00 52.44      A16S
ATOM  23303  C5* G   A1106     189.239 145.063   3.804  1.00 52.44      A16S
ATOM  23304  C4* G   A1106     189.352 143.575   3.918  1.00 52.44      A16S
ATOM  23305  O4* G   A1106     188.526 142.926   2.922  1.00 52.44      A16S
ATOM  23306  C1* G   A1106     189.115 141.688   2.562  1.00 52.44      A16S
ATOM  23307  N9  G   A1106     189.382 141.668   1.124  1.00 63.60      A16S
ATOM  23308  C4  G   A1106     189.761 140.559   0.399  1.00 63.60      A16S
ATOM  23309  N3  G   A1106     189.942 139.313   0.893  1.00 63.60      A16S
ATOM  23310  C2  G   A1106     190.282 138.455  -0.048  1.00 63.60      A16S
ATOM  23311  N2  G   A1106     190.487 137.171   0.270  1.00 63.60      A16S
ATOM  23312  N1  G   A1106     190.441 138.794  -1.366  1.00 63.60      A16S
ATOM  23313  C6  G   A1106     190.264 140.069  -1.891  1.00 63.60      A16S
ATOM  23314  O6  G   A1106     190.428 140.264  -3.091  1.00 63.60      A16S
ATOM  23315  C5  G   A1106     189.895 140.997  -0.897  1.00 63.60      A16S
ATOM  23316  N7  G   A1106     189.616 142.355  -0.992  1.00 63.60      A16S
ATOM  23317  C8  G   A1106     189.318 142.711   0.229  1.00 63.60      A16S
ATOM  23318  C2* G   A1106     190.403 141.545   3.366  1.00 52.44      A16S
ATOM  23319  O2* G   A1106     190.148 140.805   4.541  1.00 52.44      A16S
ATOM  23320  C3* G   A1106     190.723 142.992   3.681  1.00 52.44      A16S
ATOM  23321  O3* G   A1106     191.541 143.090   4.815  1.00 52.44      A16S
ATOM  23322  P   C   A1107     193.101 143.354   4.617  1.00 58.74      A16S
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ATOM  23323  O1P C   A1107     193.660 143.690   5.941  1.00 35.81      A16S
ATOM  23324  O2P C   A1107     193.230 144.318   3.487  1.00 35.81      A16S
ATOM  23325  O5* C   A1107     193.680 141.938   4.177  1.00 58.74      A16S
ATOM  23326  C5* C   A1107     193.617 140.826   5.078  1.00 58.74      A16S
ATOM  23327  C4* C   A1107     194.066 139.551   4.401  1.00 58.74      A16S
ATOM  23328  O4* C   A1107     193.106 139.109   3.404  1.00 58.74      A16S
ATOM  23329  C1* C   A1107     193.780 138.438   2.353  1.00 58.74      A16S
ATOM  23330  N1   C   A1107     193.634 139.235   1.126  1.00 35.81      A16S
ATOM  23331  C6   C   A1107     193.317 140.561   1.191  1.00 35.81      A16S
ATOM  23332  C2   C   A1107     193.832 138.618  -0.117  1.00 35.81      A16S
ATOM  23333  O2   C   A1107     194.124 137.405  -0.156  1.00 35.81      A16S
ATOM  23334  N3   C   A1107     193.702 139.356  -1.245  1.00 35.81      A16S
ATOM  23335  C4   C   A1107     193.388 140.651  -1.162  1.00 35.81      A16S
ATOM  23336  N4   C   A1107     193.270 141.343  -2.295  1.00 35.81      A16S
ATOM  23337  C5   C   A1107     193.183 141.295   0.085  1.00 35.81      A16S
ATOM  23338  C2* C   A1107     195.246 138.363   2.753  1.00 58.74      A16S
ATOM  23339  O2* C   A1107     195.454 137.164   3.481  1.00 58.74      A16S
ATOM  23340  C3* C   A1107     195.367 139.594   3.635  1.00 58.74      A16S
ATOM  23341  O3* C   A1107     196.483 139.532   4.473  1.00 58.74      A16S
ATOM  23342  P    G   A1108     197.735 140.469   4.154  1.00 60.56      A16S
ATOM  23343  O1P G   A1108     198.765 139.958   5.093  1.00 40.74      A16S
ATOM  23344  O2P G   A1108     197.296 141.887   4.217  1.00 40.74      A16S
ATOM  23345  O5* G   A1108     198.126 140.153   2.630  1.00 60.56      A16S
ATOM  23346  C5* G   A1108     198.730 138.892   2.272  1.00 60.56      A16S
ATOM  23347  C4* G   A1108     198.921 138.736   0.763  1.00 60.56      A16S
ATOM  23348  O4* G   A1108     197.658 138.726   0.038  1.00 60.56      A16S
ATOM  23349  C1* G   A1108     197.913 138.956  -1.340  1.00 60.56      A16S
ATOM  23350  N9   G   A1108     197.191 140.132  -1.817  1.00 40.74      A16S
ATOM  23351  C4   G   A1108     197.133 140.553  -3.130  1.00 40.74      A16S
ATOM  23352  N3   G   A1108     197.694 139.932  -4.187  1.00 40.74      A16S
ATOM  23353  C2   G   A1108     197.479 140.589  -5.319  1.00 40.74      A16S
ATOM  23354  N2   G   A1108     197.950 140.105  -6.471  1.00 40.74      A16S
ATOM  23355  N1   G   A1108     196.781 141.764  -5.409  1.00 40.74      A16S
ATOM  23356  C6   G   A1108     196.191 142.419  -4.343  1.00 40.74      A16S
ATOM  23357  O6   G   A1108     195.571 143.468  -4.544  1.00 40.74      A16S
ATOM  23358  C5   G   A1108     196.408 141.722  -3.110  1.00 40.74      A16S
ATOM  23359  N7   G   A1108     196.002 142.023  -1.818  1.00 40.74      A16S
ATOM  23360  C8   G   A1108     196.484 141.050  -1.088  1.00 40.74      A16S
ATOM  23361  C2* G   A1108     199.401 139.246  -1.471  1.00 60.56      A16S
ATOM  23362  O2* G   A1108     200.045 138.040  -1.830  1.00 60.56      A16S
ATOM  23363  C3* G   A1108     199.768 139.694  -0.061  1.00 60.56      A16S
ATOM  23364  O3* G   A1108     201.179 139.566   0.089  1.00 60.56      A16S
ATOM  23365  P    C   A1109     202.138 140.803  -0.325  1.00 40.42      A16S
ATOM  23366  O1P C   A1109     203.525 140.273  -0.393  1.00 75.29      A16S
ATOM  23367  O2P C   A1109     201.843 141.973   0.545  1.00 75.29      A16S
ATOM  23368  O5* C   A1109     201.684 141.227  -1.790  1.00 40.42      A16S
ATOM  23369  C5* C   A1109     202.183 140.524  -2.930  1.00 40.42      A16S
ATOM  23370  C4* C   A1109     202.145 141.403  -4.145  1.00 40.42      A16S
ATOM  23371  O4* C   A1109     200.774 141.743  -4.455  1.00 40.42      A16S
ATOM  23372  C1* C   A1109     200.717 143.042  -5.020  1.00 40.42      A16S
ATOM  23373  N1   C   A1109     199.778 143.857  -4.224  1.00 75.29      A16S
ATOM  23374  C6   C   A1109     199.261 143.384  -3.049  1.00 75.29      A16S
ATOM  23375  C2   C   A1109     199.413 145.131  -4.694  1.00 75.29      A16S
ATOM  23376  O2   C   A1109     199.914 145.554  -5.745  1.00 75.29      A16S
ATOM  23377  N3   C   A1109     198.530 145.867  -3.982  1.00 75.29      A16S
ATOM  23378  C4   C   A1109     198.029 145.389  -2.841  1.00 75.29      A16S
ATOM  23379  N4   C   A1109     197.163 146.148  -2.176  1.00 75.29      A16S
ATOM  23380  C5   C   A1109     198.395 144.111  -2.332  1.00 75.29      A16S
ATOM  23381  C2* C   A1109     202.145 143.595  -5.070  1.00 40.42      A16S
ATOM  23382  O2* C   A1109     202.666 143.458  -6.383  1.00 40.42      A16S
ATOM  23383  C3* C   A1109     202.845 142.740  -4.013  1.00 40.42      A16S
ATOM  23384  O3* C   A1109     204.243 142.610  -4.212  1.00 40.42      A16S
ATOM  23385  P    A   A1110     205.246 143.403  -3.253  1.00 42.00      A16S
ATOM  23386  O1P A   A1110     206.606 143.103  -3.752  1.00 84.49      A16S
ATOM  23387  O2P A   A1110     204.910 143.130  -1.835  1.00 84.49      A16S
ATOM  23388  O5* A   A1110     204.909 144.923  -3.560  1.00 42.00      A16S
ATOM  23389  C5* A   A1110     205.290 145.507  -4.809  1.00 42.00      A16S
ATOM  23390  C4* A   A1110     204.665 146.868  -4.959  1.00 42.00      A16S
ATOM  23391  O4* A   A1110     203.227 146.693  -4.887  1.00 42.00      A16S
ATOM  23392  C1* A   A1110     202.649 147.761  -4.160  1.00 42.00      A16S
ATOM  23393  N9   A   A1110     202.159 147.208  -2.897  1.00 84.49      A16S
ATOM  23394  C4   A   A1110     201.214 147.757  -2.068  1.00 84.49      A16S
ATOM  23395  N3   A   A1110     200.560 148.915  -2.236  1.00 84.49      A16S
ATOM  23396  C2   A   A1110     199.717 149.118  -1.235  1.00 84.49      A16S
ATOM  23397  N1   A   A1110     199.471 148.353  -0.169  1.00 84.49      A16S
ATOM  23398  C6   A   A1110     200.148 147.199  -0.032  1.00 84.49      A16S
ATOM  23399  N6   A   A1110     199.902 146.435   1.030  1.00 84.49      A16S
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ATOM  23400  C5  A  A1110     201.073 146.870  -1.020  1.00 84.49      A16S
ATOM  23401  N7  A  A1110     201.925 145.787  -1.171  1.00 84.49      A16S
ATOM  23402  C8  A  A1110     202.547 146.034  -2.294  1.00 84.49      A16S
ATOM  23403  C2* A  A1110     203.751 148.796  -3.934  1.00 42.00      A16S
ATOM  23404  O2* A  A1110     203.773 149.686  -5.036  1.00 42.00      A16S
ATOM  23405  C3* A  A1110     204.986 147.905  -3.881  1.00 42.00      A16S
ATOM  23406  O3* A  A1110     206.210 148.625  -4.096  1.00 42.00      A16S
ATOM  23407  P   A  A1111     207.175 148.953  -2.839  1.00 75.02      A16S
ATOM  23408  O1P A  A1111     208.453 149.490  -3.373  1.00 61.76      A16S
ATOM  23409  O2P A  A1111     207.198 147.798  -1.897  1.00 61.76      A16S
ATOM  23410  O5* A  A1111     206.441 150.129  -2.059  1.00 75.02      A16S
ATOM  23411  C5* A  A1111     206.187 151.402  -2.677  1.00 75.02      A16S
ATOM  23412  C4* A  A1111     205.239 152.208  -1.818  1.00 75.02      A16S
ATOM  23413  O4* A  A1111     203.967 151.504  -1.730  1.00 75.02      A16S
ATOM  23414  C1* A  A1111     203.416 151.658  -0.431  1.00 75.02      A16S
ATOM  23415  N9  A  A1111     203.427 150.352   0.236  1.00 61.76      A16S
ATOM  23416  C4  A  A1111     202.501 149.844   1.122  1.00 61.76      A16S
ATOM  23417  N3  A  A1111     201.349 150.408   1.520  1.00 61.76      A16S
ATOM  23418  C2  A  A1111     200.738 149.640   2.421  1.00 61.76      A16S
ATOM  23419  N1  A  A1111     201.118 148.461   2.931  1.00 61.76      A16S
ATOM  23420  C6  A  A1111     202.278 147.921   2.510  1.00 61.76      A16S
ATOM  23421  N6  A  A1111     202.661 146.751   3.022  1.00 61.76      A16S
ATOM  23422  C5  A  A1111     203.018 148.633   1.553  1.00 61.76      A16S
ATOM  23423  N7  A  A1111     204.220 148.361   0.920  1.00 61.76      A16S
ATOM  23424  C8  A  A1111     204.412 149.400   0.144  1.00 61.76      A16S
ATOM  23425  C2* A  A1111     204.326 152.628   0.326  1.00 75.02      A16S
ATOM  23426  O2* A  A1111     203.877 153.962   0.163  1.00 75.02      A16S
ATOM  23427  C3* A  A1111     205.656 152.382  -0.364  1.00 75.02      A16S
ATOM  23428  O3* A  A1111     206.592 153.423  -0.141  1.00 75.02      A16S
ATOM  23429  P   C  A1112     207.734 153.227   0.978  1.00 77.79      A16S
ATOM  23430  O1P C  A1112     208.558 154.454   0.927  1.00 73.32      A16S
ATOM  23431  O2P C  A1112     208.391 151.898   0.810  1.00 73.32      A16S
ATOM  23432  O5* C  A1112     206.929 153.228   2.357  1.00 77.79      A16S
ATOM  23433  C5* C  A1112     206.305 154.437   2.838  1.00 77.79      A16S
ATOM  23434  C4* C  A1112     205.695 154.228   4.206  1.00 77.79      A16S
ATOM  23435  O4* C  A1112     204.602 153.278   4.124  1.00 77.79      A16S
ATOM  23436  C1* C  A1112     204.532 152.528   5.324  1.00 77.79      A16S
ATOM  23437  N1  C  A1112     204.727 151.103   4.995  1.00 73.32      A16S
ATOM  23438  C6  C  A1112     205.533 150.734   3.957  1.00 73.32      A16S
ATOM  23439  C2  C  A1112     204.080 150.125   5.768  1.00 73.32      A16S
ATOM  23440  O2  C  A1112     203.340 150.473   6.697  1.00 73.32      A16S
ATOM  23441  N3  C  A1112     204.274 148.824   5.478  1.00 73.32      A16S
ATOM  23442  C4  C  A1112     205.060 148.477   4.460  1.00 73.32      A16S
ATOM  23443  N4  C  A1112     205.211 147.175   4.203  1.00 73.32      A16S
ATOM  23444  C5  C  A1112     205.724 149.446   3.658  1.00 73.32      A16S
ATOM  23445  C2* C  A1112     205.613 153.062   6.268  1.00 77.79      A16S
ATOM  23446  O2* C  A1112     205.040 154.025   7.135  1.00 77.79      A16S
ATOM  23447  C3* C  A1112     206.608 153.673   5.288  1.00 77.79      A16S
ATOM  23448  O3* C  A1112     207.373 154.702   5.900  1.00 77.79      A16S
ATOM  23449  P   C  A1113     208.968 154.748   5.688  1.00 61.60      A16S
ATOM  23450  O1P C  A1113     209.456 155.958   6.392  1.00 78.03      A16S
ATOM  23451  O2P C  A1113     209.239 154.597   4.233  1.00 78.03      A16S
ATOM  23452  O5* C  A1113     209.524 153.473   6.470  1.00 61.60      A16S
ATOM  23453  C5* C  A1113     209.541 153.439   7.906  1.00 61.60      A16S
ATOM  23454  C4* C  A1113     210.299 152.229   8.395  1.00 61.60      A16S
ATOM  23455  O4* C  A1113     209.643 151.032   7.906  1.00 61.60      A16S
ATOM  23456  C1* C  A1113     210.612 150.048   7.583  1.00 61.60      A16S
ATOM  23457  N1  C  A1113     210.531 149.778   6.138  1.00 78.03      A16S
ATOM  23458  C6  C  A1113     210.000 150.699   5.277  1.00 78.03      A16S
ATOM  23459  C2  C  A1113     211.021 148.565   5.656  1.00 78.03      A16S
ATOM  23460  O2  C  A1113     211.490 147.739   6.462  1.00 78.03      A16S
ATOM  23461  N3  C  A1113     210.973 148.321   4.325  1.00 78.03      A16S
ATOM  23462  C4  C  A1113     210.454 149.229   3.496  1.00 78.03      A16S
ATOM  23463  N4  C  A1113     210.419 148.941   2.197  1.00 78.03      A16S
ATOM  23464  C5  C  A1113     209.944 150.469   3.963  1.00 78.03      A16S
ATOM  23465  C2* C  A1113     211.982 150.601   7.970  1.00 61.60      A16S
ATOM  23466  O2* C  A1113     212.351 150.121   9.248  1.00 61.60      A16S
ATOM  23467  C3* C  A1113     211.728 152.102   7.901  1.00 61.60      A16S
ATOM  23468  O3* C  A1113     212.640 152.847   8.682  1.00 61.60      A16S
ATOM  23469  P   C  A1114     213.973 153.421   7.995  1.00 74.68      A16S
ATOM  23470  O1P C  A1114     214.622 154.344   8.961  1.00 76.90      A16S
ATOM  23471  O2P C  A1114     213.639 153.905   6.626  1.00 76.90      A16S
ATOM  23472  O5* C  A1114     214.890 152.133   7.854  1.00 74.68      A16S
ATOM  23473  C5* C  A1114     215.304 151.405   9.008  1.00 74.68      A16S
ATOM  23474  C4* C  A1114     216.266 150.330   8.601  1.00 74.68      A16S
ATOM  23475  O4* C  A1114     215.568 149.353   7.790  1.00 74.68      A16S
ATOM  23476  C1* C  A1114     216.424 148.881   6.765  1.00 74.68      A16S
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ATOM  23477  N1  C  A1114     215.833 149.237   5.464  1.00 76.90      A16S
ATOM  23478  C6  C  A1114     214.895 150.226   5.370  1.00 76.90      A16S
ATOM  23479  C2  C  A1114     216.242 148.545   4.322  1.00 76.90      A16S
ATOM  23480  O2  C  A1114     217.109 147.668   4.428  1.00 76.90      A16S
ATOM  23481  N3  C  A1114     215.686 148.852   3.131  1.00 76.90      A16S
ATOM  23482  C4  C  A1114     214.758 149.809   3.055  1.00 76.90      A16S
ATOM  23483  N4  C  A1114     214.220 150.071   1.863  1.00 76.90      A16S
ATOM  23484  C5  C  A1114     214.337 150.540   4.200  1.00 76.90      A16S
ATOM  23485  C2* C  A1114     217.791 149.524   6.975  1.00 74.68      A16S
ATOM  23486  O2* C  A1114     218.580 148.641   7.746  1.00 74.68      A16S
ATOM  23487  C3* C  A1114     217.417 150.795   7.725  1.00 74.68      A16S
ATOM  23488  O3* C  A1114     218.492 151.318   8.495  1.00 74.68      A16S
ATOM  23489  P   C  A1115     219.494 152.392   7.836  1.00 86.77      A16S
ATOM  23490  O1P C  A1115     220.486 152.732   8.895  1.00 68.18      A16S
ATOM  23491  O2P C  A1115     218.700 153.478   7.190  1.00 68.18      A16S
ATOM  23492  O5* C  A1115     220.233 151.564   6.692  1.00 86.77      A16S
ATOM  23493  C5* C  A1115     221.116 150.474   7.024  1.00 86.77      A16S
ATOM  23494  C4* C  A1115     221.747 149.909   5.776  1.00 86.77      A16S
ATOM  23495  O4* C  A1115     220.771 149.162   5.006  1.00 86.77      A16S
ATOM  23496  C1* C  A1115     221.060 149.283   3.622  1.00 86.77      A16S
ATOM  23497  N1  C  A1115     219.919 149.915   2.932  1.00 68.18      A16S
ATOM  23498  C6  C  A1115     218.889 150.481   3.625  1.00 68.18      A16S
ATOM  23499  C2  C  A1115     219.927 149.950   1.537  1.00 68.18      A16S
ATOM  23500  O2  C  A1115     220.850 149.386   0.933  1.00 68.18      A16S
ATOM  23501  N3  C  A1115     218.931 150.592   0.882  1.00 68.18      A16S
ATOM  23502  C4  C  A1115     217.950 151.170   1.571  1.00 68.18      A16S
ATOM  23503  N4  C  A1115     217.009 151.825   0.892  1.00 68.18      A16S
ATOM  23504  C5  C  A1115     217.894 151.112   2.990  1.00 68.18      A16S
ATOM  23505  C2* C  A1115     222.309 150.151   3.488  1.00 86.77      A16S
ATOM  23506  O2* C  A1115     223.446 149.324   3.371  1.00 86.77      A16S
ATOM  23507  C3* C  A1115     222.285 150.929   4.792  1.00 86.77      A16S
ATOM  23508  O3* C  A1115     223.567 151.393   5.144  1.00 86.77      A16S
ATOM  23509  P   C  A1116     224.060 152.820   4.606  1.00 71.51      A16S
ATOM  23510  O1P C  A1116     225.330 153.063   5.325  1.00 52.55      A16S
ATOM  23511  O2P C  A1116     222.963 153.827   4.674  1.00 52.55      A16S
ATOM  23512  O5* C  A1116     224.354 152.580   3.061  1.00 71.51      A16S
ATOM  23513  C5* C  A1116     225.429 151.735   2.636  1.00 71.51      A16S
ATOM  23514  C4* C  A1116     225.455 151.643   1.131  1.00 71.51      A16S
ATOM  23515  O4* C  A1116     224.247 150.992   0.665  1.00 71.51      A16S
ATOM  23516  C1* C  A1116     223.882 151.517  -0.598  1.00 71.51      A16S
ATOM  23517  N1  C  A1116     222.554 152.137  -0.507  1.00 52.55      A16S
ATOM  23518  C6  C  A1116     222.029 152.524   0.691  1.00 52.55      A16S
ATOM  23519  C2  C  A1116     221.846 152.348  -1.683  1.00 52.55      A16S
ATOM  23520  O2  C  A1116     222.334 151.955  -2.750  1.00 52.55      A16S
ATOM  23521  N3  C  A1116     220.652 152.972  -1.636  1.00 52.55      A16S
ATOM  23522  C4  C  A1116     220.156 153.369  -0.468  1.00 52.55      A16S
ATOM  23523  N4  C  A1116     218.981 154.005  -0.471  1.00 52.55      A16S
ATOM  23524  C5  C  A1116     220.844 153.140   0.756  1.00 52.55      A16S
ATOM  23525  C2* C  A1116     224.914 152.571  -0.980  1.00 71.51      A16S
ATOM  23526  O2* C  A1116     225.886 152.011  -1.833  1.00 71.51      A16S
ATOM  23527  C3* C  A1116     225.466 152.963   0.379  1.00 71.51      A16S
ATOM  23528  O3* C  A1116     226.750 153.553   0.278  1.00 71.51      A16S
ATOM  23529  P   G  A1117     226.886 155.152   0.347  1.00 61.89      A16S
ATOM  23530  O1P G  A1117     228.226 155.401   0.943  1.00 62.85      A16S
ATOM  23531  O2P G  A1117     225.667 155.692   1.009  1.00 62.85      A16S
ATOM  23532  O5* G  A1117     226.823 155.625  -1.175  1.00 61.89      A16S
ATOM  23533  C5* G  A1117     225.676 155.294  -1.960  1.00 61.89      A16S
ATOM  23534  C4* G  A1117     225.813 155.764  -3.385  1.00 61.89      A16S
ATOM  23535  O4* G  A1117     224.698 155.161  -4.083  1.00 61.89      A16S
ATOM  23536  C1* G  A1117     223.899 156.153  -4.687  1.00 61.89      A16S
ATOM  23537  N9  G  A1117     222.670 156.257  -3.901  1.00 62.85      A16S
ATOM  23538  C4  G  A1117     221.402 156.542  -4.363  1.00 62.85      A16S
ATOM  23539  N3  G  A1117     221.050 156.762  -5.649  1.00 62.85      A16S
ATOM  23540  C2  G  A1117     219.754 157.026  -5.767  1.00 62.85      A16S
ATOM  23541  N2  G  A1117     219.217 157.240  -6.981  1.00 62.85      A16S
ATOM  23542  N1  G  A1117     218.886 157.089  -4.704  1.00 62.85      A16S
ATOM  23543  C6  G  A1117     219.232 156.865  -3.377  1.00 62.85      A16S
ATOM  23544  O6  G  A1117     218.377 156.953  -2.497  1.00 62.85      A16S
ATOM  23545  C5  G  A1117     220.602 156.558  -3.239  1.00 62.85      A16S
ATOM  23546  N7  G  A1117     221.339 156.260  -2.104  1.00 62.85      A16S
ATOM  23547  C8  G  A1117     222.555 156.090  -2.541  1.00 62.85      A16S
ATOM  23548  C2* G  A1117     224.749 157.423  -4.771  1.00 61.89      A16S
ATOM  23549  O2* G  A1117     225.414 157.458  -6.016  1.00 61.89      A16S
ATOM  23550  C3* G  A1117     225.671 157.269  -3.560  1.00 61.89      A16S
ATOM  23551  O3* G  A1117     226.950 157.851  -3.782  1.00 61.89      A16S
ATOM  23552  P   C  A1118     227.449 159.061  -2.856  1.00 71.22      A16S
ATOM  23553  O1P C  A1118     228.859 159.287  -3.244  1.00 69.15      A16S
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ATOM  23554  O2P C   A1118     227.126 158.735  -1.447  1.00 69.15      A16S
ATOM  23555  O5* C   A1118     226.581 160.312  -3.337  1.00 71.22      A16S
ATOM  23556  C5* C   A1118     226.914 160.990  -4.566  1.00 71.22      A16S
ATOM  23557  C4* C   A1118     226.135 162.285  -4.721  1.00 71.22      A16S
ATOM  23558  O4* C   A1118     224.742 162.003  -5.005  1.00 71.22      A16S
ATOM  23559  C1* C   A1118     223.927 163.011  -4.435  1.00 71.22      A16S
ATOM  23560  N1   C   A1118     223.079 162.387  -3.412  1.00 69.15      A16S
ATOM  23561  C6   C   A1118     223.338 161.120  -2.972  1.00 69.15      A16S
ATOM  23562  C2   C   A1118     222.010 163.105  -2.893  1.00 69.15      A16S
ATOM  23563  O2   C   A1118     221.812 164.258  -3.294  1.00 69.15      A16S
ATOM  23564  N3   C   A1118     221.222 162.532  -1.963  1.00 69.15      A16S
ATOM  23565  C4   C   A1118     221.480 161.292  -1.546  1.00 69.15      A16S
ATOM  23566  N4   C   A1118     220.675 160.756  -0.631  1.00 69.15      A16S
ATOM  23567  C5   C   A1118     222.572 160.543  -2.048  1.00 69.15      A16S
ATOM  23568  C2* C   A1118     224.844 164.071  -3.829  1.00 71.22      A16S
ATOM  23569  O2* C   A1118     225.015 165.103  -4.784  1.00 71.22      A16S
ATOM  23570  C3* C   A1118     226.109 163.261  -3.549  1.00 71.22      A16S
ATOM  23571  O3* C   A1118     227.274 164.086  -3.500  1.00 71.22      A16S
ATOM  23572  P    C   A1119     227.804 164.633  -2.084  1.00 76.55      A16S
ATOM  23573  O1P C   A1119     229.122 165.264  -2.332  1.00 74.89      A16S
ATOM  23574  O2P C   A1119     227.699 163.531  -1.100  1.00 74.89      A16S
ATOM  23575  O5* C   A1119     226.754 165.772  -1.702  1.00 76.55      A16S
ATOM  23576  C5* C   A1119     226.632 166.958  -2.518  1.00 76.55      A16S
ATOM  23577  C4* C   A1119     225.465 167.816  -2.068  1.00 76.55      A16S
ATOM  23578  O4* C   A1119     224.226 167.071  -2.221  1.00 76.55      A16S
ATOM  23579  C1* C   A1119     223.314 167.436  -1.191  1.00 76.55      A16S
ATOM  23580  N1   C   A1119     223.046 166.236  -0.359  1.00 74.89      A16S
ATOM  23581  C6   C   A1119     224.070 165.570   0.266  1.00 74.89      A16S
ATOM  23582  C2   C   A1119     221.725 165.787  -0.215  1.00 74.89      A16S
ATOM  23583  O2   C   A1119     220.809 166.405  -0.788  1.00 74.89      A16S
ATOM  23584  N3   C   A1119     221.481 164.690   0.545  1.00 74.89      A16S
ATOM  23585  C4   C   A1119     222.490 164.052   1.143  1.00 74.89      A16S
ATOM  23586  N4   C   A1119     222.204 162.975   1.877  1.00 74.89      A16S
ATOM  23587  C5   C   A1119     223.838 164.488   1.017  1.00 74.89      A16S
ATOM  23588  C2* C   A1119     223.963 168.567  -0.389  1.00 76.55      A16S
ATOM  23589  O2* C   A1119     223.559 169.829  -0.901  1.00 76.55      A16S
ATOM  23590  C3* C   A1119     225.441 168.280  -0.617  1.00 76.55      A16S
ATOM  23591  O3* C   A1119     226.247 169.412  -0.351  1.00 76.55      A16S
ATOM  23592  P    G   A1120     226.837 169.617   1.126  1.00154.75      A16S
ATOM  23593  O1P G   A1120     227.875 170.674   1.015  1.00 98.82      A16S
ATOM  23594  O2P G   A1120     227.198 168.279   1.692  1.00 98.82      A16S
ATOM  23595  O5* G   A1120     225.593 170.188   1.945  1.00154.75      A16S
ATOM  23596  C5* G   A1120     224.895 171.373   1.499  1.00154.75      A16S
ATOM  23597  C4* G   A1120     223.618 171.580   2.290  1.00154.75      A16S
ATOM  23598  O4* G   A1120     222.713 170.468   2.058  1.00154.75      A16S
ATOM  23599  C1* G   A1120     221.953 170.217   3.231  1.00154.75      A16S
ATOM  23600  N9   G   A1120     222.235 168.859   3.696  1.00 98.82      A16S
ATOM  23601  C4   G   A1120     221.615 168.212   4.743  1.00 98.82      A16S
ATOM  23602  N3   G   A1120     220.622 168.712   5.510  1.00 98.82      A16S
ATOM  23603  C2   G   A1120     220.241 167.858   6.447  1.00 98.82      A16S
ATOM  23604  N2   G   A1120     219.257 168.191   7.296  1.00 98.82      A16S
ATOM  23605  N1   G   A1120     220.794 166.615   6.623  1.00 98.82      A16S
ATOM  23606  C6   G   A1120     221.816 166.079   5.848  1.00 98.82      A16S
ATOM  23607  O6   G   A1120     222.244 164.948   6.097  1.00 98.82      A16S
ATOM  23608  C5   G   A1120     222.233 166.983   4.831  1.00 98.82      A16S
ATOM  23609  N7   G   A1120     223.209 166.850   3.853  1.00 98.82      A16S
ATOM  23610  C8   G   A1120     223.172 167.981   3.202  1.00 98.82      A16S
ATOM  23611  C2* G   A1120     222.347 171.266   4.272  1.00154.75      A16S
ATOM  23612  O2* G   A1120     221.437 172.346   4.223  1.00154.75      A16S
ATOM  23613  C3* G   A1120     223.744 171.659   3.806  1.00154.75      A16S
ATOM  23614  O3* G   A1120     224.102 172.960   4.266  1.00154.75      A16S
ATOM  23615  P    U   A1121     224.788 173.134   5.715  1.00124.94      A16S
ATOM  23616  O1P U   A1121     225.154 174.565   5.853  1.00117.22      A16S
ATOM  23617  O2P U   A1121     225.828 172.091   5.899  1.00117.22      A16S
ATOM  23618  O5* U   A1121     223.619 172.817   6.746  1.00124.94      A16S
ATOM  23619  C5* U   A1121     222.603 173.793   7.034  1.00124.94      A16S
ATOM  23620  C4* U   A1121     221.834 173.388   8.264  1.00124.94      A16S
ATOM  23621  O4* U   A1121     221.173 172.125   8.001  1.00124.94      A16S
ATOM  23622  C1* U   A1121     221.202 171.313   9.164  1.00124.94      A16S
ATOM  23623  N1   U   A1121     221.931 170.071   8.849  1.00117.22      A16S
ATOM  23624  C6   U   A1121     222.959 170.056   7.927  1.00117.22      A16S
ATOM  23625  C2   U   A1121     221.554 168.904   9.508  1.00117.22      A16S
ATOM  23626  O2   U   A1121     220.655 168.859  10.337  1.00117.22      A16S
ATOM  23627  N3   U   A1121     222.271 167.789   9.160  1.00117.22      A16S
ATOM  23628  C4   U   A1121     223.298 167.713   8.252  1.00117.22      A16S
ATOM  23629  O4   U   A1121     223.855 166.635   8.069  1.00117.22      A16S
ATOM  23630  C5   U   A1121     223.633 168.948   7.616  1.00117.22      A16S
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ATOM  23631  C2* U   A1121     221.849 172.129  10.285  1.00124.94      A16S
ATOM  23632  O2* U   A1121     220.846 172.746  11.070  1.00124.94      A16S
ATOM  23633  C3* U   A1121     222.688 173.126   9.495  1.00124.94      A16S
ATOM  23634  O3* U   A1121     222.961 174.314  10.228  1.00124.94      A16S
ATOM  23635  P    U   A1122     224.234 174.360  11.210  1.00 96.89      A16S
ATOM  23636  O1P U   A1122     224.213 175.660  11.930  1.00130.52      A16S
ATOM  23637  O2P U   A1122     225.437 173.973  10.430  1.00130.52      A16S
ATOM  23638  O5* U   A1122     223.935 173.209  12.268  1.00 96.89      A16S
ATOM  23639  C5* U   A1122     222.816 173.308  13.158  1.00 96.89      A16S
ATOM  23640  C4* U   A1122     222.730 172.083  14.028  1.00 96.89      A16S
ATOM  23641  O4* U   A1122     222.305 170.938  13.244  1.00 96.89      A16S
ATOM  23642  C1* U   A1122     222.930 169.760  13.745  1.00 96.89      A16S
ATOM  23643  N1   U   A1122     223.752 169.157  12.677  1.00130.52      A16S
ATOM  23644  C6   U   A1122     224.179 169.892  11.591  1.00130.52      A16S
ATOM  23645  C2   U   A1122     224.101 167.816  12.803  1.00130.52      A16S
ATOM  23646  O2   U   A1122     223.751 167.119  13.743  1.00130.52      A16S
ATOM  23647  N3   U   A1122     224.880 167.323  11.787  1.00130.52      A16S
ATOM  23648  C4   U   A1122     225.339 168.006  10.686  1.00130.52      A16S
ATOM  23649  O4   U   A1122     226.015 167.413   9.849  1.00130.52      A16S
ATOM  23650  C5   U   A1122     224.941 169.376  10.622  1.00130.52      A16S
ATOM  23651  C2* U   A1122     223.779 170.166  14.952  1.00 96.89      A16S
ATOM  23652  O2* U   A1122     223.062 169.948  16.154  1.00 96.89      A16S
ATOM  23653  C3* U   A1122     224.036 171.638  14.658  1.00 96.89      A16S
ATOM  23654  O3* U   A1122     224.388 172.386  15.807  1.00 96.89      A16S
ATOM  23655  P    A   A1123     225.924 172.793  16.029  1.00116.31      A16S
ATOM  23656  O1P A   A1123     226.001 173.587  17.282  1.00111.44      A16S
ATOM  23657  O2P A   A1123     226.427 173.379  14.759  1.00111.44      A16S
ATOM  23658  O5* A   A1123     226.644 171.395  16.281  1.00116.31      A16S
ATOM  23659  C5* A   A1123     226.350 170.630  17.463  1.00116.31      A16S
ATOM  23660  C4* A   A1123     227.203 169.387  17.522  1.00116.31      A16S
ATOM  23661  O4* A   A1123     226.757 168.428  16.530  1.00116.31      A16S
ATOM  23662  C1* A   A1123     227.868 167.670  16.073  1.00116.31      A16S
ATOM  23663  N9   A   A1123     227.998 167.836  14.624  1.00111.44      A16S
ATOM  23664  C4   A   A1123     228.303 166.842  13.725  1.00111.44      A16S
ATOM  23665  N3   A   A1123     228.506 165.540  13.988  1.00111.44      A16S
ATOM  23666  C2   A   A1123     228.801 164.878  12.875  1.00111.44      A16S
ATOM  23667  N1   A   A1123     228.912 165.332  11.621  1.00111.44      A16S
ATOM  23668  C6   A   A1123     228.707 166.645  11.389  1.00111.44      A16S
ATOM  23669  N6   A   A1123     228.834 167.098  10.137  1.00111.44      A16S
ATOM  23670  C5   A   A1123     228.376 167.459  12.491  1.00111.44      A16S
ATOM  23671  N7   A   A1123     228.100 168.814  12.604  1.00111.44      A16S
ATOM  23672  C8   A   A1123     227.879 168.985  13.883  1.00111.44      A16S
ATOM  23673  C2* A   A1123     229.111 168.164  16.815  1.00116.31      A16S
ATOM  23674  O2* A   A1123     229.380 167.303  17.906  1.00116.31      A16S
ATOM  23675  C3* A   A1123     228.683 169.566  17.234  1.00116.31      A16S
ATOM  23676  O3* A   A1123     229.405 170.055  18.353  1.00116.31      A16S
ATOM  23677  P    G   A1124     230.438 171.270  18.155  1.00130.02      A16S
ATOM  23678  O1P G   A1124     230.424 172.052  19.408  1.00 90.24      A16S
ATOM  23679  O2P G   A1124     230.135 171.944  16.866  1.00 90.24      A16S
ATOM  23680  O5* G   A1124     231.863 170.567  18.042  1.00130.02      A16S
ATOM  23681  C5* G   A1124     232.332 169.699  19.090  1.00130.02      A16S
ATOM  23682  C4* G   A1124     232.981 168.469  18.505  1.00130.02      A16S
ATOM  23683  O4* G   A1124     232.297 168.106  17.285  1.00130.02      A16S
ATOM  23684  C1* G   A1124     233.213 167.514  16.386  1.00130.02      A16S
ATOM  23685  N9   G   A1124     233.032 168.115  15.066  1.00 90.24      A16S
ATOM  23686  C4   G   A1124     233.063 167.448  13.864  1.00 90.24      A16S
ATOM  23687  N3   G   A1124     233.323 166.134  13.695  1.00 90.24      A16S
ATOM  23688  C2   G   A1124     233.261 165.779  12.427  1.00 90.24      A16S
ATOM  23689  N2   G   A1124     233.506 164.510  12.090  1.00 90.24      A16S
ATOM  23690  N1   G   A1124     232.957 166.645  11.399  1.00 90.24      A16S
ATOM  23691  C6   G   A1124     232.681 168.004  11.550  1.00 90.24      A16S
ATOM  23692  O6   G   A1124     232.406 168.700  10.558  1.00 90.24      A16S
ATOM  23693  C5   G   A1124     232.757 168.398  12.910  1.00 90.24      A16S
ATOM  23694  N7   G   A1124     232.570 169.642  13.496  1.00 90.24      A16S
ATOM  23695  C8   G   A1124     232.753 169.429  14.773  1.00 90.24      A16S
ATOM  23696  C2* G   A1124     234.612 167.558  17.007  1.00130.02      A16S
ATOM  23697  O2* G   A1124     234.928 166.264  17.496  1.00130.02      A16S
ATOM  23698  C3* G   A1124     234.442 168.604  18.111  1.00130.02      A16S
ATOM  23699  O3* G   A1124     235.213 168.253  19.249  1.00130.02      A16S
ATOM  23700  P    U   A1125     236.698 168.817  19.419  1.00100.71      A16S
ATOM  23701  O1P U   A1125     236.559 170.043  20.235  1.00101.91      A16S
ATOM  23702  O2P U   A1125     237.351 168.897  18.089  1.00101.91      A16S
ATOM  23703  O5* U   A1125     237.420 167.688  20.287  1.00100.71      A16S
ATOM  23704  C5* U   A1125     237.344 166.287  19.913  1.00100.71      A16S
ATOM  23705  C4* U   A1125     238.674 165.599  20.167  1.00100.71      A16S
ATOM  23706  O4* U   A1125     239.077 165.852  21.533  1.00100.71      A16S
ATOM  23707  C1* U   A1125     239.728 164.713  22.063  1.00100.71      A16S
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ATOM  23708  N1  U   A1125     239.010 164.291  23.274  1.00101.91      A16S
ATOM  23709  C6  U   A1125     237.921 165.001  23.738  1.00101.91      A16S
ATOM  23710  C2  U   A1125     239.460 163.160  23.938  1.00101.91      A16S
ATOM  23711  O2  U   A1125     240.432 162.509  23.564  1.00101.91      A16S
ATOM  23712  N3  U   A1125     238.730 162.822  25.057  1.00101.91      A16S
ATOM  23713  C4  U   A1125     237.625 163.490  25.567  1.00101.91      A16S
ATOM  23714  O4  U   A1125     237.053 163.051  26.566  1.00101.91      A16S
ATOM  23715  C5  U   A1125     237.237 164.650  24.829  1.00101.91      A16S
ATOM  23716  C2* U   A1125     239.803 163.642  20.973  1.00100.71      A16S
ATOM  23717  O2* U   A1125     241.107 163.648  20.438  1.00100.71      A16S
ATOM  23718  C3* U   A1125     238.697 164.079  20.008  1.00100.71      A16S
ATOM  23719  O3* U   A1125     239.008 163.701  18.653  1.00100.71      A16S
ATOM  23720  P   U   A1126     238.424 162.325  18.033  1.00196.64      A16S
ATOM  23721  O1P U   A1126     237.059 162.657  17.525  1.00173.08      A16S
ATOM  23722  O2P U   A1126     238.583 161.245  19.044  1.00173.08      A16S
ATOM  23723  O5* U   A1126     239.378 162.008  16.780  1.00196.64      A16S
ATOM  23724  C5* U   A1126     239.550 160.648  16.268  1.00196.64      A16S
ATOM  23725  C4* U   A1126     239.005 160.530  14.850  1.00196.64      A16S
ATOM  23726  O4* U   A1126     237.756 161.262  14.806  1.00196.64      A16S
ATOM  23727  C1* U   A1126     237.620 161.918  13.562  1.00196.64      A16S
ATOM  23728  N1  U   A1126     237.509 163.366  13.810  1.00173.08      A16S
ATOM  23729  C6  U   A1126     237.960 163.927  14.987  1.00173.08      A16S
ATOM  23730  C2  U   A1126     236.926 164.154  12.827  1.00173.08      A16S
ATOM  23731  O2  U   A1126     236.522 163.709  11.763  1.00173.08      A16S
ATOM  23732  N3  U   A1126     236.837 165.487  13.138  1.00173.08      A16S
ATOM  23733  C4  U   A1126     237.262 166.101  14.296  1.00173.08      A16S
ATOM  23734  O4  U   A1126     237.118 167.313  14.420  1.00173.08      A16S
ATOM  23735  C5  U   A1126     237.857 165.228  15.254  1.00173.08      A16S
ATOM  23736  C2* U   A1126     238.797 161.506  12.675  1.00196.64      A16S
ATOM  23737  O2* U   A1126     238.393 160.428  11.857  1.00196.64      A16S
ATOM  23738  C3* U   A1126     239.847 161.095  13.703  1.00196.64      A16S
ATOM  23739  O3* U   A1126     240.664 160.067  13.128  1.00196.64      A16S
ATOM  23740  P   G   A1127     241.962 160.444  12.238  1.00 76.31      A16S
ATOM  23741  O1P G   A1127     242.289 159.245  11.424  1.00201.30      A16S
ATOM  23742  O2P G   A1127     242.984 161.006  13.155  1.00201.30      A16S
ATOM  23743  O5* G   A1127     241.510 161.608  11.248  1.00 76.31      A16S
ATOM  23744  C5* G   A1127     241.387 161.370   9.843  1.00 76.31      A16S
ATOM  23745  C4* G   A1127     240.834 162.593   9.158  1.00 76.31      A16S
ATOM  23746  O4* G   A1127     239.803 163.165  10.001  1.00 76.31      A16S
ATOM  23747  C1* G   A1127     239.820 164.575   9.890  1.00 76.31      A16S
ATOM  23748  N9  G   A1127     240.088 165.136  11.208  1.00201.30      A16S
ATOM  23749  C4  G   A1127     239.913 166.442  11.567  1.00201.30      A16S
ATOM  23750  N3  G   A1127     239.458 167.421  10.763  1.00201.30      A16S
ATOM  23751  C2  G   A1127     239.401 168.579  11.385  1.00201.30      A16S
ATOM  23752  N2  G   A1127     238.972 169.658  10.725  1.00201.30      A16S
ATOM  23753  N1  G   A1127     239.762 168.764  12.696  1.00201.30      A16S
ATOM  23754  C6  G   A1127     240.236 167.768  13.543  1.00201.30      A16S
ATOM  23755  O6  G   A1127     240.536 168.041  14.711  1.00201.30      A16S
ATOM  23756  C5  G   A1127     240.303 166.517  12.885  1.00201.30      A16S
ATOM  23757  N7  G   A1127     240.711 165.276  13.350  1.00201.30      A16S
ATOM  23758  C8  G   A1127     240.566 164.486  12.322  1.00201.30      A16S
ATOM  23759  C2* G   A1127     240.900 164.954   8.878  1.00 76.31      A16S
ATOM  23760  O2* G   A1127     240.313 165.173   7.609  1.00 76.31      A16S
ATOM  23761  C3* G   A1127     241.809 163.733   8.929  1.00 76.31      A16S
ATOM  23762  O3* G   A1127     242.514 163.557   7.711  1.00 76.31      A16S
ATOM  23763  P   C   A1128     244.119 163.562   7.719  1.00112.82      A16S
ATOM  23764  O1P C   A1128     244.583 162.444   6.857  1.00 89.29      A16S
ATOM  23765  O2P C   A1128     244.588 163.640   9.129  1.00 89.29      A16S
ATOM  23766  O5* C   A1128     244.485 164.922   6.982  1.00112.82      A16S
ATOM  23767  C5* C   A1128     243.864 165.270   5.735  1.00112.82      A16S
ATOM  23768  C4* C   A1128     243.682 166.762   5.651  1.00112.82      A16S
ATOM  23769  O4* C   A1128     242.901 167.192   6.795  1.00112.82      A16S
ATOM  23770  C1* C   A1128     243.368 168.449   7.250  1.00112.82      A16S
ATOM  23771  N1  C   A1128     243.816 168.303   8.654  1.00 89.29      A16S
ATOM  23772  C6  C   A1128     244.109 167.070   9.170  1.00 89.29      A16S
ATOM  23773  C2  C   A1128     243.916 169.451   9.469  1.00 89.29      A16S
ATOM  23774  O2  C   A1128     243.687 170.574   8.976  1.00 89.29      A16S
ATOM  23775  N3  C   A1128     244.263 169.304  10.772  1.00 89.29      A16S
ATOM  23776  C4  C   A1128     244.519 168.088  11.265  1.00 89.29      A16S
ATOM  23777  N4  C   A1128     244.841 167.991  12.558  1.00 89.29      A16S
ATOM  23778  C5  C   A1128     244.456 166.918  10.455  1.00 89.29      A16S
ATOM  23779  C2* C   A1128     244.451 168.915   6.277  1.00112.82      A16S
ATOM  23780  O2* C   A1128     243.844 169.653   5.239  1.00112.82      A16S
ATOM  23781  C3* C   A1128     244.955 167.597   5.714  1.00112.82      A16S
ATOM  23782  O3* C   A1128     245.511 167.799   4.417  1.00112.82      A16S
ATOM  23783  P   C   A1129     246.987 168.420   4.269  1.00201.30      A16S
ATOM  23784  O1P C   A1129     247.028 169.041   2.927  1.00156.35      A16S
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ATOM  23785  O2P C   A1129     247.988 167.384   4.638  1.00156.35      A16S
ATOM  23786  O5* C   A1129     247.033 169.606   5.334  1.00201.30      A16S
ATOM  23787  C5* C   A1129     248.279 170.063   5.918  1.00201.30      A16S
ATOM  23788  C4* C   A1129     248.303 171.577   5.961  1.00201.30      A16S
ATOM  23789  O4* C   A1129     249.165 172.062   7.021  1.00201.30      A16S
ATOM  23790  C1* C   A1129     249.586 173.379   6.703  1.00201.30      A16S
ATOM  23791  N1   C   A1129     251.011 173.572   7.083  1.00156.35      A16S
ATOM  23792  C6   C   A1129     251.814 172.508   7.399  1.00156.35      A16S
ATOM  23793  C2   C   A1129     251.532 174.888   7.126  1.00156.35      A16S
ATOM  23794  O2   C   A1129     250.796 175.848   6.829  1.00156.35      A16S
ATOM  23795  N3   C   A1129     252.823 175.075   7.488  1.00156.35      A16S
ATOM  23796  C4   C   A1129     253.590 174.027   7.795  1.00156.35      A16S
ATOM  23797  N4   C   A1129     254.856 174.267   8.140  1.00156.35      A16S
ATOM  23798  C5   C   A1129     253.095 172.689   7.759  1.00156.35      A16S
ATOM  23799  C2* C   A1129     249.201 173.676   5.246  1.00201.30      A16S
ATOM  23800  O2* C   A1129     248.141 174.610   5.246  1.00201.30      A16S
ATOM  23801  C3* C   A1129     248.799 172.293   4.713  1.00201.30      A16S
ATOM  23802  O3* C   A1129     247.763 172.337   3.723  1.00201.30      A16S
ATOM  23803  P    A   A1130     247.963 173.185   2.364  1.00118.93      A16S
ATOM  23804  O1P A   A1130     249.370 173.074   1.892  1.00109.27      A16S
ATOM  23805  O2P A   A1130     247.381 174.518   2.641  1.00109.27      A16S
ATOM  23806  O5* A   A1130     247.036 172.446   1.299  1.00118.93      A16S
ATOM  23807  C5* A   A1130     245.967 171.591   1.739  1.00118.93      A16S
ATOM  23808  C4* A   A1130     244.638 172.246   1.484  1.00118.93      A16S
ATOM  23809  O4* A   A1130     243.695 171.674   2.415  1.00118.93      A16S
ATOM  23810  C1* A   A1130     242.852 172.686   2.922  1.00118.93      A16S
ATOM  23811  N9   A   A1130     243.022 172.717   4.371  1.00109.27      A16S
ATOM  23812  C4   A   A1130     242.162 173.278   5.284  1.00109.27      A16S
ATOM  23813  N3   A   A1130     241.038 173.970   5.027  1.00109.27      A16S
ATOM  23814  C2   A   A1130     240.443 174.330   6.160  1.00109.27      A16S
ATOM  23815  N1   A   A1130     240.809 174.082   7.427  1.00109.27      A16S
ATOM  23816  C6   A   A1130     241.941 173.376   7.649  1.00109.27      A16S
ATOM  23817  N6   A   A1130     242.289 173.099   8.910  1.00109.27      A16S
ATOM  23818  C5   A   A1130     242.678 172.959   6.529  1.00109.27      A16S
ATOM  23819  N7   A   A1130     243.869 172.257   6.403  1.00109.27      A16S
ATOM  23820  C8   A   A1130     244.035 172.155   5.107  1.00109.27      A16S
ATOM  23821  C2* A   A1130     243.187 173.998   2.217  1.00118.93      A16S
ATOM  23822  O2* A   A1130     242.278 174.191   1.153  1.00118.93      A16S
ATOM  23823  C3* A   A1130     244.616 173.746   1.753  1.00118.93      A16S
ATOM  23824  O3* A   A1130     244.881 174.440   0.533  1.00118.93      A16S
ATOM  23825  P    G   A1131     245.841 175.736   0.517  1.00199.80      A16S
ATOM  23826  O1P G   A1131     245.299 176.657  -0.527  1.00129.85      A16S
ATOM  23827  O2P G   A1131     247.249 175.264   0.406  1.00129.85      A16S
ATOM  23828  O5* G   A1131     245.616 176.428   1.939  1.00199.80      A16S
ATOM  23829  C5* G   A1131     245.177 177.800   2.020  1.00199.80      A16S
ATOM  23830  C4* G   A1131     245.486 178.398   3.375  1.00199.80      A16S
ATOM  23831  O4* G   A1131     244.558 177.909   4.379  1.00199.80      A16S
ATOM  23832  C1* G   A1131     245.184 177.942   5.653  1.00199.80      A16S
ATOM  23833  N9   G   A1131     245.220 176.593   6.205  1.00129.85      A16S
ATOM  23834  C4   G   A1131     245.044 176.244   7.523  1.00129.85      A16S
ATOM  23835  N3   G   A1131     244.744 177.086   8.536  1.00129.85      A16S
ATOM  23836  C2   G   A1131     244.667 176.455   9.696  1.00129.85      A16S
ATOM  23837  N2   G   A1131     244.371 177.138  10.810  1.00129.85      A16S
ATOM  23838  N1   G   A1131     244.873 175.104   9.851  1.00129.85      A16S
ATOM  23839  C6   G   A1131     245.180 174.218   8.821  1.00129.85      A16S
ATOM  23840  O6   G   A1131     245.345 173.013   9.067  1.00129.85      A16S
ATOM  23841  C5   G   A1131     245.261 174.883   7.571  1.00129.85      A16S
ATOM  23842  N7   G   A1131     245.537 174.385   6.307  1.00129.85      A16S
ATOM  23843  C8   G   A1131     245.488 175.430   5.529  1.00129.85      A16S
ATOM  23844  C2* G   A1131     246.609 178.457   5.457  1.00199.80      A16S
ATOM  23845  O2* G   A1131     246.653 179.841   5.735  1.00199.80      A16S
ATOM  23846  C3* G   A1131     246.855 178.144   3.985  1.00199.80      A16S
ATOM  23847  O3* G   A1131     247.884 178.960   3.446  1.00199.80      A16S
ATOM  23848  P    C   A1132     249.418 178.658   3.832  1.00197.40      A16S
ATOM  23849  O1P C   A1132     250.266 179.394   2.862  1.00129.57      A16S
ATOM  23850  O2P C   A1132     249.608 177.195   4.003  1.00129.57      A16S
ATOM  23851  O5* C   A1132     249.574 179.318   5.272  1.00197.40      A16S
ATOM  23852  C5* C   A1132     249.336 180.723   5.469  1.00197.40      A16S
ATOM  23853  C4* C   A1132     249.448 181.076   6.934  1.00197.40      A16S
ATOM  23854  O4* C   A1132     248.343 180.501   7.680  1.00197.40      A16S
ATOM  23855  C1* C   A1132     248.777 180.162   8.990  1.00197.40      A16S
ATOM  23856  N1   C   A1132     248.542 178.720   9.226  1.00129.57      A16S
ATOM  23857  C6   C   A1132     248.483 177.832   8.186  1.00129.57      A16S
ATOM  23858  C2   C   A1132     248.389 178.266  10.551  1.00129.57      A16S
ATOM  23859  O2   C   A1132     248.437 179.086  11.483  1.00129.57      A16S
ATOM  23860  N3   C   A1132     248.195 176.948  10.779  1.00129.57      A16S
ATOM  23861  C4   C   A1132     248.148 176.092   9.756  1.00129.57      A16S
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ATOM  23862  N4  C   A1132     247.962 174.799  10.033  1.00129.57      A16S
ATOM  23863  C5  C   A1132     248.291 176.523   8.403  1.00129.57      A16S
ATOM  23864  C2* C   A1132     250.253 180.550   9.107  1.00197.40      A16S
ATOM  23865  O2* C   A1132     250.363 181.814   9.731  1.00197.40      A16S
ATOM  23866  C3* C   A1132     250.688 180.564   7.646  1.00197.40      A16S
ATOM  23867  O3* C   A1132     251.822 181.388   7.411  1.00197.40      A16S
ATOM  23868  P   G   A1133     253.276 180.714   7.273  1.00191.22      A16S
ATOM  23869  O1P G   A1133     254.165 181.712   6.625  1.00168.33      A16S
ATOM  23870  O2P G   A1133     253.127 179.365   6.667  1.00168.33      A16S
ATOM  23871  O5* G   A1133     253.745 180.519   8.783  1.00191.22      A16S
ATOM  23872  C5* G   A1133     254.008 181.656   9.630  1.00191.22      A16S
ATOM  23873  C4* G   A1133     254.135 181.218  11.070  1.00191.22      A16S
ATOM  23874  O4* G   A1133     252.853 180.734  11.545  1.00191.22      A16S
ATOM  23875  C1* G   A1133     253.050 179.645  12.431  1.00191.22      A16S
ATOM  23876  N9  G   A1133     252.389 178.469  11.869  1.00168.33      A16S
ATOM  23877  C4  G   A1133     252.113 177.298  12.530  1.00168.33      A16S
ATOM  23878  N3  G   A1133     252.391 177.034  13.824  1.00168.33      A16S
ATOM  23879  C2  G   A1133     252.029 175.812  14.166  1.00168.33      A16S
ATOM  23880  N2  G   A1133     252.236 175.380  15.417  1.00168.33      A16S
ATOM  23881  N1  G   A1133     251.440 174.922  13.305  1.00168.33      A16S
ATOM  23882  C6  G   A1133     251.141 175.175  11.970  1.00168.33      A16S
ATOM  23883  O6  G   A1133     250.605 174.299  11.280  1.00168.33      A16S
ATOM  23884  C5  G   A1133     251.524 176.480  11.591  1.00168.33      A16S
ATOM  23885  N7  G   A1133     251.418 177.127  10.369  1.00168.33      A16S
ATOM  23886  C8  G   A1133     251.939 178.303  10.581  1.00168.33      A16S
ATOM  23887  C2* G   A1133     254.559 179.440  12.595  1.00191.22      A16S
ATOM  23888  O2* G   A1133     255.010 180.088  13.766  1.00191.22      A16S
ATOM  23889  C3* G   A1133     255.096 180.068  11.315  1.00191.22      A16S
ATOM  23890  O3* G   A1133     256.437 180.514  11.442  1.00191.22      A16S
ATOM  23891  P   G   A1134     257.638 179.527  11.040  1.00126.76      A16S
ATOM  23892  O1P G   A1134     258.891 180.325  11.038  1.00201.30      A16S
ATOM  23893  O2P G   A1134     257.245 178.780   9.817  1.00201.30      A16S
ATOM  23894  O5* G   A1134     257.700 178.498  12.255  1.00126.76      A16S
ATOM  23895  C5* G   A1134     258.131 178.928  13.560  1.00126.76      A16S
ATOM  23896  C4* G   A1134     257.965 177.818  14.571  1.00126.76      A16S
ATOM  23897  O4* G   A1134     256.554 177.514  14.736  1.00126.76      A16S
ATOM  23898  C1* G   A1134     256.391 176.126  14.979  1.00126.76      A16S
ATOM  23899  N9  G   A1134     255.614 175.555  13.878  1.00201.30      A16S
ATOM  23900  C4  G   A1134     255.246 174.236  13.731  1.00201.30      A16S
ATOM  23901  N3  G   A1134     255.519 173.235  14.594  1.00201.30      A16S
ATOM  23902  C2  G   A1134     255.053 172.075  14.168  1.00201.30      A16S
ATOM  23903  N2  G   A1134     255.235 170.973  14.908  1.00201.30      A16S
ATOM  23904  N1  G   A1134     254.373 171.908  12.986  1.00201.30      A16S
ATOM  23905  C6  G   A1134     254.080 172.922  12.080  1.00201.30      A16S
ATOM  23906  O6  G   A1134     253.463 172.661  11.039  1.00201.30      A16S
ATOM  23907  C5  G   A1134     254.573 174.176  12.528  1.00201.30      A16S
ATOM  23908  N7  G   A1134     254.503 175.431  11.939  1.00201.30      A16S
ATOM  23909  C8  G   A1134     255.129 176.215  12.774  1.00201.30      A16S
ATOM  23910  C2* G   A1134     257.790 175.509  15.062  1.00126.76      A16S
ATOM  23911  O2* G   A1134     258.228 175.459  16.408  1.00126.76      A16S
ATOM  23912  C3* G   A1134     258.605 176.484  14.225  1.00126.76      A16S
ATOM  23913  O3* G   A1134     259.987 176.430  14.544  1.00126.76      A16S
ATOM  23914  P   U   A1135     260.967 175.515  13.655  1.00196.71      A16S
ATOM  23915  O1P U   A1135     260.739 175.883  12.233  1.00153.48      A16S
ATOM  23916  O2P U   A1135     262.341 175.579  14.218  1.00153.48      A16S
ATOM  23917  O5* U   A1135     260.415 174.037  13.873  1.00196.71      A16S
ATOM  23918  C5* U   A1135     260.437 173.420  15.174  1.00196.71      A16S
ATOM  23919  C4* U   A1135     260.050 171.966  15.063  1.00196.71      A16S
ATOM  23920  O4* U   A1135     258.687 171.871  14.579  1.00196.71      A16S
ATOM  23921  C1* U   A1135     258.562 170.754  13.717  1.00196.71      A16S
ATOM  23922  N1  U   A1135     258.067 171.225  12.413  1.00153.48      A16S
ATOM  23923  C6  U   A1135     258.618 172.323  11.794  1.00153.48      A16S
ATOM  23924  C2  U   A1135     257.024 170.528  11.823  1.00153.48      A16S
ATOM  23925  O2  U   A1135     256.503 169.548  12.329  1.00153.48      A16S
ATOM  23926  N3  U   A1135     256.610 171.021  10.612  1.00153.48      A16S
ATOM  23927  C4  U   A1135     257.120 172.111   9.942  1.00153.48      A16S
ATOM  23928  O4  U   A1135     256.655 172.417   8.843  1.00153.48      A16S
ATOM  23929  C5  U   A1135     258.192 172.777  10.613  1.00153.48      A16S
ATOM  23930  C2* U   A1135     259.917 170.043  13.656  1.00196.71      A16S
ATOM  23931  O2* U   A1135     259.917 168.948  14.549  1.00196.71      A16S
ATOM  23932  C3* U   A1135     260.875 171.152  14.077  1.00196.71      A16S
ATOM  23933  O3* U   A1135     262.053 170.649  14.703  1.00196.71      A16S
ATOM  23934  P   U   A1136     263.212 169.976  13.814  1.00201.30      A16S
ATOM  23935  O1P U   A1136     263.045 170.456  12.414  1.00159.07      A16S
ATOM  23936  O2P U   A1136     264.502 170.203  14.520  1.00159.07      A16S
ATOM  23937  O5* U   A1136     262.872 168.417  13.860  1.00201.30      A16S
ATOM  23938  C5* U   A1136     263.890 167.415  13.615  1.00201.30      A16S
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ATOM  23939  C4* U   A1136     263.755 166.277  14.606  1.00201.30      A16S
ATOM  23940  O4* U   A1136     263.942 166.805  15.942  1.00201.30      A16S
ATOM  23941  C1* U   A1136     263.061 166.159  16.842  1.00201.30      A16S
ATOM  23942  N1   U   A1136     262.242 167.185  17.511  1.00159.07      A16S
ATOM  23943  C6   U   A1136     262.092 168.446  16.972  1.00159.07      A16S
ATOM  23944  C2   U   A1136     261.629 166.849  18.712  1.00159.07      A16S
ATOM  23945  O2   U   A1136     261.722 165.744  19.224  1.00159.07      A16S
ATOM  23946  N3   U   A1136     260.899 167.859  19.289  1.00159.07      A16S
ATOM  23947  C4   U   A1136     260.716 169.138  18.804  1.00159.07      A16S
ATOM  23948  O4   U   A1136     260.021 169.934  19.439  1.00159.07      A16S
ATOM  23949  C5   U   A1136     261.373 169.405  17.561  1.00159.07      A16S
ATOM  23950  C2* U   A1136     262.274 165.097  16.068  1.00201.30      A16S
ATOM  23951  O2* U   A1136     262.870 163.830  16.271  1.00201.30      A16S
ATOM  23952  C3* U   A1136     262.394 165.591  14.628  1.00201.30      A16S
ATOM  23953  O3* U   A1136     262.365 164.487  13.724  1.00201.30      A16S
ATOM  23954  P    C   A1137     261.903 164.705  12.199  1.00201.30      A16S
ATOM  23955  O1P C   A1137     263.010 165.401  11.495  1.00183.14      A16S
ATOM  23956  O2P C   A1137     261.402 163.408  11.674  1.00183.14      A16S
ATOM  23957  O5* C   A1137     260.678 165.716  12.295  1.00201.30      A16S
ATOM  23958  C5* C   A1137     259.355 165.257  12.627  1.00201.30      A16S
ATOM  23959  C4* C   A1137     258.392 165.635  11.530  1.00201.30      A16S
ATOM  23960  O4* C   A1137     258.444 167.070  11.335  1.00201.30      A16S
ATOM  23961  C1* C   A1137     258.325 167.372   9.957  1.00201.30      A16S
ATOM  23962  N1   C   A1137     259.524 168.131   9.541  1.00183.14      A16S
ATOM  23963  C6   C   A1137     260.680 168.069  10.273  1.00183.14      A16S
ATOM  23964  C2   C   A1137     259.463 168.926   8.381  1.00183.14      A16S
ATOM  23965  O2   C   A1137     258.406 168.967   7.725  1.00183.14      A16S
ATOM  23966  N3   C   A1137     260.560 169.627   8.007  1.00183.14      A16S
ATOM  23967  C4   C   A1137     261.680 169.559   8.734  1.00183.14      A16S
ATOM  23968  N4   C   A1137     262.737 170.268   8.328  1.00183.14      A16S
ATOM  23969  C5   C   A1137     261.768 168.760   9.911  1.00183.14      A16S
ATOM  23970  C2* C   A1137     258.101 166.058   9.200  1.00201.30      A16S
ATOM  23971  O2* C   A1137     256.713 165.891   8.980  1.00201.30      A16S
ATOM  23972  C3* C   A1137     258.687 165.028  10.165  1.00201.30      A16S
ATOM  23973  O3* C   A1137     258.033 163.763  10.065  1.00201.30      A16S
ATOM  23974  P    G   A1138     258.582 162.634   9.053  1.00198.41      A16S
ATOM  23975  O1P G   A1138     258.717 163.240   7.702  1.00183.53      A16S
ATOM  23976  O2P G   A1138     259.752 161.968   9.680  1.00183.53      A16S
ATOM  23977  O5* G   A1138     257.382 161.586   9.000  1.00198.41      A16S
ATOM  23978  C5* G   A1138     256.015 162.051   8.985  1.00198.41      A16S
ATOM  23979  C4* G   A1138     255.154 161.225   9.915  1.00198.41      A16S
ATOM  23980  O4* G   A1138     255.869 160.943  11.144  1.00198.41      A16S
ATOM  23981  C1* G   A1138     254.966 160.957  12.237  1.00198.41      A16S
ATOM  23982  N9   G   A1138     255.482 161.878  13.249  1.00183.53      A16S
ATOM  23983  C4   G   A1138     255.582 163.253  13.162  1.00183.53      A16S
ATOM  23984  N3   G   A1138     255.192 164.017  12.118  1.00183.53      A16S
ATOM  23985  C2   G   A1138     255.425 165.302  12.330  1.00183.53      A16S
ATOM  23986  N2   G   A1138     255.097 166.206  11.394  1.00183.53      A16S
ATOM  23987  N1   G   A1138     255.999 165.797  13.473  1.00183.53      A16S
ATOM  23988  C6   G   A1138     256.410 165.031  14.559  1.00183.53      A16S
ATOM  23989  O6   G   A1138     256.923 165.580  15.540  1.00183.53      A16S
ATOM  23990  C5   G   A1138     256.160 163.652  14.350  1.00183.53      A16S
ATOM  23991  N7   G   A1138     256.406 162.560  15.171  1.00183.53      A16S
ATOM  23992  C8   G   A1138     255.986 161.534  14.481  1.00183.53      A16S
ATOM  23993  C2* G   A1138     253.563 161.270  11.703  1.00198.41      A16S
ATOM  23994  O2* G   A1138     252.815 160.076  11.593  1.00198.41      A16S
ATOM  23995  C3* G   A1138     253.874 161.921  10.357  1.00198.41      A16S
ATOM  23996  O3* G   A1138     252.821 161.772   9.406  1.00198.41      A16S
ATOM  23997  P    G   A1139     251.727 162.941   9.244  1.00124.08      A16S
ATOM  23998  O1P G   A1139     250.561 162.375   8.512  1.00130.19      A16S
ATOM  23999  O2P G   A1139     252.390 164.169   8.724  1.00130.19      A16S
ATOM  24000  O5* G   A1139     251.289 163.226  10.746  1.00124.08      A16S
ATOM  24001  C5* G   A1139     250.057 162.722  11.266  1.00124.08      A16S
ATOM  24002  C4* G   A1139     249.595 163.593  12.395  1.00124.08      A16S
ATOM  24003  O4* G   A1139     249.719 164.976  12.011  1.00124.08      A16S
ATOM  24004  C1* G   A1139     248.668 165.724  12.577  1.00124.08      A16S
ATOM  24005  N9   G   A1139     248.111 166.581  11.537  1.00130.19      A16S
ATOM  24006  C4   G   A1139     247.891 167.930  11.642  1.00130.19      A16S
ATOM  24007  N3   G   A1139     248.085 168.678  12.746  1.00130.19      A16S
ATOM  24008  C2   G   A1139     247.815 169.952  12.532  1.00130.19      A16S
ATOM  24009  N2   G   A1139     247.952 170.830  13.525  1.00130.19      A16S
ATOM  24010  N1   G   A1139     247.390 170.457  11.330  1.00130.19      A16S
ATOM  24011  C6   G   A1139     247.183 169.709  10.178  1.00130.19      A16S
ATOM  24012  O6   G   A1139     246.800 170.267   9.141  1.00130.19      A16S
ATOM  24013  C5   G   A1139     247.465 168.331  10.394  1.00130.19      A16S
ATOM  24014  N7   G   A1139     247.381 167.246   9.532  1.00130.19      A16S
ATOM  24015  C8   G   A1139     247.763 166.229  10.256  1.00130.19      A16S
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ATOM  24016  C2* G   A1139     247.734 164.781  13.340  1.00124.08      A16S
ATOM  24017  O2* G   A1139     247.954 164.972  14.720  1.00124.08      A16S
ATOM  24018  C3* G   A1139     248.147 163.412  12.796  1.00124.08      A16S
ATOM  24019  O3* G   A1139     248.036 162.288  13.676  1.00124.08      A16S
ATOM  24020  P    C   A1140     248.726 162.307  15.138  1.00186.95      A16S
ATOM  24021  O1P C   A1140     249.167 160.908  15.395  1.00136.76      A16S
ATOM  24022  O2P C   A1140     247.801 162.965  16.101  1.00136.76      A16S
ATOM  24023  O5* C   A1140     250.040 163.203  14.973  1.00186.95      A16S
ATOM  24024  C5* C   A1140     251.307 162.761  15.514  1.00186.95      A16S
ATOM  24025  C4* C   A1140     252.139 163.931  16.017  1.00186.95      A16S
ATOM  24026  O4* C   A1140     252.971 164.488  14.967  1.00186.95      A16S
ATOM  24027  C1* C   A1140     253.319 165.820  15.311  1.00186.95      A16S
ATOM  24028  N1   C   A1140     253.134 166.718  14.148  1.00136.76      A16S
ATOM  24029  C6   C   A1140     252.264 166.408  13.140  1.00136.76      A16S
ATOM  24030  C2   C   A1140     253.874 167.915  14.096  1.00136.76      A16S
ATOM  24031  O2   C   A1140     254.661 168.180  15.020  1.00136.76      A16S
ATOM  24032  N3   C   A1140     253.712 168.750  13.043  1.00136.76      A16S
ATOM  24033  C4   C   A1140     252.860 168.436  12.067  1.00136.76      A16S
ATOM  24034  N4   C   A1140     252.734 169.292  11.047  1.00136.76      A16S
ATOM  24035  C5   C   A1140     252.098 167.230  12.091  1.00136.76      A16S
ATOM  24036  C2* C   A1140     252.524 166.215  16.560  1.00186.95      A16S
ATOM  24037  O2* C   A1140     253.379 166.159  17.686  1.00186.95      A16S
ATOM  24038  C3* C   A1140     251.435 165.144  16.608  1.00186.95      A16S
ATOM  24039  O3* C   A1140     250.992 164.940  17.945  1.00186.95      A16S
ATOM  24040  P    C   A1141     249.846 165.892  18.553  1.00179.26      A16S
ATOM  24041  O1P C   A1141     249.547 165.391  19.919  1.00173.29      A16S
ATOM  24042  O2P C   A1141     248.745 166.015  17.561  1.00173.29      A16S
ATOM  24043  O5* C   A1141     250.554 167.315  18.680  1.00179.26      A16S
ATOM  24044  C5* C   A1141     251.513 167.578  19.730  1.00179.26      A16S
ATOM  24045  C4* C   A1141     251.839 169.056  19.800  1.00179.26      A16S
ATOM  24046  O4* C   A1141     252.637 169.452  18.658  1.00179.26      A16S
ATOM  24047  C1* C   A1141     252.314 170.782  18.292  1.00179.26      A16S
ATOM  24048  N1   C   A1141     251.916 170.795  16.875  1.00173.29      A16S
ATOM  24049  C6   C   A1141     251.124 169.807  16.359  1.00173.29      A16S
ATOM  24050  C2   C   A1141     252.371 171.835  16.057  1.00173.29      A16S
ATOM  24051  O2   C   A1141     253.078 172.729  16.549  1.00173.29      A16S
ATOM  24052  N3   C   A1141     252.030 171.842  14.750  1.00173.29      A16S
ATOM  24053  C4   C   A1141     251.268 170.865  14.253  1.00173.29      A16S
ATOM  24054  N4   C   A1141     250.970 170.905  12.952  1.00173.29      A16S
ATOM  24055  C5   C   A1141     250.781 169.802  15.066  1.00173.29      A16S
ATOM  24056  C2* C   A1141     251.237 171.299  19.248  1.00179.26      A16S
ATOM  24057  O2* C   A1141     251.841 172.098  20.243  1.00179.26      A16S
ATOM  24058  C3* C   A1141     250.649 170.001  19.796  1.00179.26      A16S
ATOM  24059  O3* C   A1141     250.129 170.164  21.107  1.00179.26      A16S
ATOM  24060  P    G   A1142     248.669 170.794  21.305  1.00132.82      A16S
ATOM  24061  O1P G   A1142     248.448 170.921  22.770  1.00166.22      A16S
ATOM  24062  O2P G   A1142     247.705 170.020  20.481  1.00166.22      A16S
ATOM  24063  O5* G   A1142     248.804 172.254  20.684  1.00132.82      A16S
ATOM  24064  C5* G   A1142     249.483 173.291  21.408  1.00132.82      A16S
ATOM  24065  C4* G   A1142     249.342 174.614  20.697  1.00132.82      A16S
ATOM  24066  O4* G   A1142     250.188 174.649  19.521  1.00132.82      A16S
ATOM  24067  C1* G   A1142     249.593 175.482  18.540  1.00132.82      A16S
ATOM  24068  N9   G   A1142     249.428 174.721  17.304  1.00166.22      A16S
ATOM  24069  C4   G   A1142     249.079 175.235  16.075  1.00166.22      A16S
ATOM  24070  N3   G   A1142     248.853 176.536  15.793  1.00166.22      A16S
ATOM  24071  C2   G   A1142     248.517 176.718  14.525  1.00166.22      A16S
ATOM  24072  N2   G   A1142     248.260 177.951  14.070  1.00166.22      A16S
ATOM  24073  N1   G   A1142     248.408 175.706  13.609  1.00166.22      A16S
ATOM  24074  C6   G   A1142     248.635 174.361  13.872  1.00166.22      A16S
ATOM  24075  O6   G   A1142     248.503 173.530  12.965  1.00166.22      A16S
ATOM  24076  C5   G   A1142     249.005 174.149  15.232  1.00166.22      A16S
ATOM  24077  N7   G   A1142     249.321 172.977  15.910  1.00166.22      A16S
ATOM  24078  C8   G   A1142     249.567 173.365  17.132  1.00166.22      A16S
ATOM  24079  C2* G   A1142     248.262 175.994  19.098  1.00132.82      A16S
ATOM  24080  O2* G   A1142     248.430 177.303  19.604  1.00132.82      A16S
ATOM  24081  C3* G   A1142     247.956 174.969  20.186  1.00132.82      A16S
ATOM  24082  O3* G   A1142     247.128 175.505  21.214  1.00132.82      A16S
ATOM  24083  P    G   A1143     245.574 175.087  21.287  1.00110.06      A16S
ATOM  24084  O1P G   A1143     244.972 175.795  22.446  1.00194.93      A16S
ATOM  24085  O2P G   A1143     245.483 173.605  21.208  1.00194.93      A16S
ATOM  24086  O5* G   A1143     244.946 175.698  19.955  1.00110.06      A16S
ATOM  24087  C5* G   A1143     245.156 177.080  19.604  1.00110.06      A16S
ATOM  24088  C4* G   A1143     245.033 177.271  18.109  1.00110.06      A16S
ATOM  24089  O4* G   A1143     245.998 176.420  17.436  1.00110.06      A16S
ATOM  24090  C1* G   A1143     245.452 175.935  16.220  1.00110.06      A16S
ATOM  24091  N9   G   A1143     245.402 174.474  16.293  1.00194.93      A16S
ATOM  24092  C4   G   A1143     245.352 173.596  15.231  1.00194.93      A16S
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ATOM  24093  N3  G  A1143     245.347 173.930  13.921  1.00194.93      A16S
ATOM  24094  C2  G  A1143     245.295 172.863  13.139  1.00194.93      A16S
ATOM  24095  N2  G  A1143     245.290 173.011  11.808  1.00194.93      A16S
ATOM  24096  N1  G  A1143     245.246 171.571  13.606  1.00194.93      A16S
ATOM  24097  C6  G  A1143     245.251 171.202  14.948  1.00194.93      A16S
ATOM  24098  O6  G  A1143     245.210 170.003  15.260  1.00194.93      A16S
ATOM  24099  C5  G  A1143     245.308 172.337  15.799  1.00194.93      A16S
ATOM  24100  N7  G  A1143     245.332 172.419  17.184  1.00194.93      A16S
ATOM  24101  C8  G  A1143     245.388 173.700  17.432  1.00194.93      A16S
ATOM  24102  C2* G  A1143     244.075 176.579  16.047  1.00110.06      A16S
ATOM  24103  O2* G  A1143     244.204 177.730  15.234  1.00110.06      A16S
ATOM  24104  C3* G  A1143     243.696 176.892  17.493  1.00110.06      A16S
ATOM  24105  O3* G  A1143     242.749 177.951  17.610  1.00110.06      A16S
ATOM  24106  P   G  A1144     241.200 177.612  17.899  1.00181.48      A16S
ATOM  24107  O1P G  A1144     240.533 178.875  18.317  1.00174.26      A16S
ATOM  24108  O2P G  A1144     241.121 176.416  18.779  1.00174.26      A16S
ATOM  24109  O5* G  A1144     240.629 177.214  16.467  1.00181.48      A16S
ATOM  24110  C5* G  A1144     240.592 178.178  15.397  1.00181.48      A16S
ATOM  24111  C4* G  A1144     240.292 177.497  14.082  1.00181.48      A16S
ATOM  24112  O4* G  A1144     241.406 176.649  13.696  1.00181.48      A16S
ATOM  24113  C1* G  A1144     240.919 175.484  13.047  1.00181.48      A16S
ATOM  24114  N9  G  A1144     241.241 174.327  13.878  1.00174.26      A16S
ATOM  24115  C4  G  A1144     241.436 173.042  13.440  1.00174.26      A16S
ATOM  24116  N3  G  A1144     241.383 172.629  12.158  1.00174.26      A16S
ATOM  24117  C2  G  A1144     241.603 171.333  12.049  1.00174.26      A16S
ATOM  24118  N2  G  A1144     241.582 170.758  10.840  1.00174.26      A16S
ATOM  24119  N1  G  A1144     241.859 170.506  13.117  1.00174.26      A16S
ATOM  24120  C6  G  A1144     241.917 170.911  14.447  1.00174.26      A16S
ATOM  24121  O6  G  A1144     242.156 170.083  15.335  1.00174.26      A16S
ATOM  24122  C5  G  A1144     241.680 172.300  14.576  1.00174.26      A16S
ATOM  24123  N7  G  A1144     241.644 173.103  15.706  1.00174.26      A16S
ATOM  24124  C8  G  A1144     241.386 174.295  15.245  1.00174.26      A16S
ATOM  24125  C2* G  A1144     239.405 175.633  12.917  1.00181.48      A16S
ATOM  24126  O2* G  A1144     239.082 176.198  11.660  1.00181.48      A16S
ATOM  24127  C3* G  A1144     239.098 176.560  14.084  1.00181.48      A16S
ATOM  24128  O3* G  A1144     237.863 177.231  13.936  1.00181.48      A16S
ATOM  24129  P   C  A1145     236.498 176.458  14.287  1.00121.06      A16S
ATOM  24130  O1P C  A1145     235.878 177.101  15.473  1.00 94.17      A16S
ATOM  24131  O2P C  A1145     236.782 174.996  14.323  1.00 94.17      A16S
ATOM  24132  O5* C  A1145     235.587 176.786  13.023  1.00121.06      A16S
ATOM  24133  C5* C  A1145     234.505 175.926  12.655  1.00121.06      A16S
ATOM  24134  C4* C  A1145     234.895 175.078  11.469  1.00121.06      A16S
ATOM  24135  O4* C  A1145     236.131 174.378  11.741  1.00121.06      A16S
ATOM  24136  C1* C  A1145     236.074 173.079  11.197  1.00121.06      A16S
ATOM  24137  N1  C  A1145     236.403 172.134  12.270  1.00 94.17      A16S
ATOM  24138  C6  C  A1145     235.466 171.717  13.172  1.00 94.17      A16S
ATOM  24139  C2  C  A1145     237.723 171.692  12.373  1.00 94.17      A16S
ATOM  24140  O2  C  A1145     238.546 172.055  11.518  1.00 94.17      A16S
ATOM  24141  N3  C  A1145     238.077 170.887  13.396  1.00 94.17      A16S
ATOM  24142  C4  C  A1145     237.170 170.520  14.297  1.00 94.17      A16S
ATOM  24143  N4  C  A1145     237.581 169.767  15.320  1.00 94.17      A16S
ATOM  24144  C5  C  A1145     235.803 170.921  14.196  1.00 94.17      A16S
ATOM  24145  C2* C  A1145     234.735 172.909  10.481  1.00121.06      A16S
ATOM  24146  O2* C  A1145     234.983 173.123   9.114  1.00121.06      A16S
ATOM  24147  C3* C  A1145     233.886 174.002  11.131  1.00121.06      A16S
ATOM  24148  O3* C  A1145     232.912 174.616  10.294  1.00121.06      A16S
ATOM  24149  P   A  A1146     232.047 173.733   9.278  1.00152.46      A16S
ATOM  24150  O1P A  A1146     230.902 174.589   8.866  1.00 95.25      A16S
ATOM  24151  O2P A  A1146     231.789 172.395   9.903  1.00 95.25      A16S
ATOM  24152  O5* A  A1146     233.018 173.574   8.022  1.00152.46      A16S
ATOM  24153  C5* A  A1146     233.488 174.739   7.307  1.00152.46      A16S
ATOM  24154  C4* A  A1146     234.556 174.367   6.294  1.00152.46      A16S
ATOM  24155  O4* A  A1146     235.887 174.396   6.866  1.00152.46      A16S
ATOM  24156  C1* A  A1146     236.748 173.594   6.073  1.00152.46      A16S
ATOM  24157  N9  A  A1146     237.544 172.713   6.932  1.00 95.25      A16S
ATOM  24158  C4  A  A1146     238.497 171.825   6.489  1.00 95.25      A16S
ATOM  24159  N3  A  A1146     238.874 171.600   5.216  1.00 95.25      A16S
ATOM  24160  C2  A  A1146     239.822 170.667   5.167  1.00 95.25      A16S
ATOM  24161  N1  A  A1146     240.393 169.983   6.169  1.00 95.25      A16S
ATOM  24162  C6  A  A1146     239.989 170.233   7.435  1.00 95.25      A16S
ATOM  24163  N6  A  A1146     240.549 169.547   8.430  1.00 95.25      A16S
ATOM  24164  C5  A  A1146     238.993 171.204   7.623  1.00 95.25      A16S
ATOM  24165  N7  A  A1146     238.370 171.693   8.761  1.00 95.25      A16S
ATOM  24166  C8  A  A1146     237.523 172.581   8.299  1.00 95.25      A16S
ATOM  24167  C2* A  A1146     235.885 172.840   5.062  1.00152.46      A16S
ATOM  24168  O2* A  A1146     236.013 173.470   3.805  1.00152.46      A16S
ATOM  24169  C3* A  A1146     234.488 172.995   5.654  1.00152.46      A16S
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ATOM  24170  O3* A   A1146     233.496 172.912   4.654  1.00152.46      A16S
ATOM  24171  P    C   A1147     232.712 171.528   4.446  1.00114.58      A16S
ATOM  24172  O1P C   A1147     232.192 171.096   5.780  1.00 72.27      A16S
ATOM  24173  O2P C   A1147     231.765 171.737   3.313  1.00 72.27      A16S
ATOM  24174  O5* C   A1147     233.856 170.501   4.012  1.00114.58      A16S
ATOM  24175  C5* C   A1147     234.505 170.610   2.724  1.00114.58      A16S
ATOM  24176  C4* C   A1147     235.580 169.553   2.570  1.00114.58      A16S
ATOM  24177  O4* C   A1147     236.682 169.825   3.471  1.00114.58      A16S
ATOM  24178  C1* C   A1147     237.264 168.605   3.897  1.00114.58      A16S
ATOM  24179  N1   C   A1147     237.179 168.518   5.367  1.00 72.27      A16S
ATOM  24180  C6   C   A1147     236.158 169.123   6.048  1.00 72.27      A16S
ATOM  24181  C2   C   A1147     238.168 167.794   6.070  1.00 72.27      A16S
ATOM  24182  O2   C   A1147     239.081 167.254   5.443  1.00 72.27      A16S
ATOM  24183  N3   C   A1147     238.097 167.706   7.416  1.00 72.27      A16S
ATOM  24184  C4   C   A1147     237.097 168.305   8.069  1.00 72.27      A16S
ATOM  24185  N4   C   A1147     237.067 168.196   9.402  1.00 72.27      A16S
ATOM  24186  C5   C   A1147     236.077 169.045   7.384  1.00 72.27      A16S
ATOM  24187  C2* C   A1147     236.517 167.466   3.207  1.00114.58      A16S
ATOM  24188  O2* C   A1147     237.240 167.081   2.059  1.00114.58      A16S
ATOM  24189  C3* C   A1147     235.179 168.121   2.882  1.00114.58      A16S
ATOM  24190  O3* C   A1147     234.526 167.490   1.786  1.00114.58      A16S
ATOM  24191  P    U   A1148     233.593 166.204   2.050  1.00 77.73      A16S
ATOM  24192  O1P U   A1148     232.540 166.566   3.035  1.00 93.11      A16S
ATOM  24193  O2P U   A1148     233.204 165.662   0.726  1.00 93.11      A16S
ATOM  24194  O5* U   A1148     234.572 165.165   2.748  1.00 77.73      A16S
ATOM  24195  C5* U   A1148     235.546 164.471   1.975  1.00 77.73      A16S
ATOM  24196  C4* U   A1148     236.184 163.387   2.796  1.00 77.73      A16S
ATOM  24197  O4* U   A1148     237.074 163.964   3.785  1.00 77.73      A16S
ATOM  24198  C1* U   A1148     237.099 163.134   4.937  1.00 77.73      A16S
ATOM  24199  N1   U   A1148     236.677 163.917   6.109  1.00 93.11      A16S
ATOM  24200  C6   U   A1148     235.864 165.018   5.983  1.00 93.11      A16S
ATOM  24201  C2   U   A1148     237.110 163.493   7.358  1.00 93.11      A16S
ATOM  24202  O2   U   A1148     237.836 162.529   7.522  1.00 93.11      A16S
ATOM  24203  N3   U   A1148     236.654 164.236   8.411  1.00 93.11      A16S
ATOM  24204  C4   U   A1148     235.824 165.330   8.352  1.00 93.11      A16S
ATOM  24205  O4   U   A1148     235.440 165.849   9.399  1.00 93.11      A16S
ATOM  24206  C5   U   A1148     235.432 165.716   7.031  1.00 93.11      A16S
ATOM  24207  C2* U   A1148     236.156 161.955   4.682  1.00 77.73      A16S
ATOM  24208  O2* U   A1148     236.895 160.827   4.251  1.00 77.73      A16S
ATOM  24209  C3* U   A1148     235.239 162.518   3.604  1.00 77.73      A16S
ATOM  24210  O3* U   A1148     234.630 161.499   2.831  1.00 77.73      A16S
ATOM  24211  P    C   A1149     233.123 161.058   3.158  1.00 69.26      A16S
ATOM  24212  O1P C   A1149     232.782 159.967   2.213  1.00 79.77      A16S
ATOM  24213  O2P C   A1149     232.296 162.289   3.184  1.00 79.77      A16S
ATOM  24214  O5* C   A1149     233.204 160.454   4.634  1.00 69.26      A16S
ATOM  24215  C5* C   A1149     234.034 159.305   4.918  1.00 69.26      A16S
ATOM  24216  C4* C   A1149     234.382 159.242   6.394  1.00 69.26      A16S
ATOM  24217  O4* C   A1149     234.899 160.530   6.814  1.00 69.26      A16S
ATOM  24218  C1* C   A1149     234.526 160.787   8.160  1.00 69.26      A16S
ATOM  24219  N1   C   A1149     233.726 162.033   8.203  1.00 79.77      A16S
ATOM  24220  C6   C   A1149     233.424 162.716   7.056  1.00 79.77      A16S
ATOM  24221  C2   C   A1149     233.276 162.508   9.442  1.00 79.77      A16S
ATOM  24222  O2   C   A1149     233.551 161.869  10.470  1.00 79.77      A16S
ATOM  24223  N3   C   A1149     232.549 163.646   9.486  1.00 79.77      A16S
ATOM  24224  C4   C   A1149     232.261 164.300   8.360  1.00 79.77      A16S
ATOM  24225  N4   C   A1149     231.534 165.414   8.453  1.00 79.77      A16S
ATOM  24226  C5   C   A1149     232.701 163.841   7.089  1.00 79.77      A16S
ATOM  24227  C2* C   A1149     233.762 159.564   8.670  1.00 69.26      A16S
ATOM  24228  O2* C   A1149     234.646 158.701   9.356  1.00 69.26      A16S
ATOM  24229  C3* C   A1149     233.251 158.957   7.372  1.00 69.26      A16S
ATOM  24230  O3* C   A1149     233.029 157.569   7.541  1.00 69.26      A16S
ATOM  24231  P    U   A1150     231.550 157.042   7.858  1.00 72.31      A16S
ATOM  24232  O1P U   A1150     231.566 155.559   7.724  1.00 75.72      A16S
ATOM  24233  O2P U   A1150     230.596 157.858   7.053  1.00 75.72      A16S
ATOM  24234  O5* U   A1150     231.310 157.404   9.386  1.00 72.31      A16S
ATOM  24235  C5* U   A1150     232.079 156.788  10.428  1.00 72.31      A16S
ATOM  24236  C4* U   A1150     231.771 157.465  11.735  1.00 72.31      A16S
ATOM  24237  O4* U   A1150     232.097 158.870  11.602  1.00 72.31      A16S
ATOM  24238  C1* U   A1150     231.127 159.653  12.264  1.00 72.31      A16S
ATOM  24239  N1   U   A1150     230.559 160.604  11.297  1.00 75.72      A16S
ATOM  24240  C6   U   A1150     230.556 160.342   9.953  1.00 75.72      A16S
ATOM  24241  C2   U   A1150     230.049 161.784  11.784  1.00 75.72      A16S
ATOM  24242  O2   U   A1150     229.998 162.039  12.969  1.00 75.72      A16S
ATOM  24243  N3   U   A1150     229.596 162.660  10.833  1.00 75.72      A16S
ATOM  24244  C4   U   A1150     229.595 162.480   9.472  1.00 75.72      A16S
ATOM  24245  O4   U   A1150     229.264 163.414   8.733  1.00 75.72      A16S
ATOM  24246  C5   U   A1150     230.105 161.215   9.047  1.00 75.72      A16S
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ATOM  24247  C2* U   A1150     230.125 158.710  12.930  1.00 72.31      A16S
ATOM  24248  O2* U   A1150     230.492 158.555  14.285  1.00 72.31      A16S
ATOM  24249  C3* U   A1150     230.299 157.437  12.109  1.00 72.31      A16S
ATOM  24250  O3* U   A1150     230.001 156.254  12.847  1.00 72.31      A16S
ATOM  24251  P    A   A1151     228.621 155.467  12.579  1.00 71.74      A16S
ATOM  24252  O1P A   A1151     228.605 154.288  13.494  1.00 84.14      A16S
ATOM  24253  O2P A   A1151     228.459 155.265  11.116  1.00 84.14      A16S
ATOM  24254  O5* A   A1151     227.506 156.510  13.035  1.00 71.74      A16S
ATOM  24255  C5* A   A1151     227.476 156.990  14.384  1.00 71.74      A16S
ATOM  24256  C4* A   A1151     226.288 157.888  14.602  1.00 71.74      A16S
ATOM  24257  O4* A   A1151     226.521 159.208  14.044  1.00 71.74      A16S
ATOM  24258  C1* A   A1151     225.376 159.619  13.331  1.00 71.74      A16S
ATOM  24259  N9   A   A1151     225.776 160.548  12.268  1.00 84.14      A16S
ATOM  24260  C4   A   A1151     225.593 161.913  12.296  1.00 84.14      A16S
ATOM  24261  N3   A   A1151     225.034 162.643  13.277  1.00 84.14      A16S
ATOM  24262  C2   A   A1151     225.014 163.934  12.951  1.00 84.14      A16S
ATOM  24263  N1   A   A1151     225.454 164.535  11.842  1.00 84.14      A16S
ATOM  24264  C6   A   A1151     226.011 163.778  10.877  1.00 84.14      A16S
ATOM  24265  N6   A   A1151     226.448 164.382   9.773  1.00 84.14      A16S
ATOM  24266  C5   A   A1151     226.094 162.388  11.099  1.00 84.14      A16S
ATOM  24267  N7   A   A1151     226.592 161.347  10.329  1.00 84.14      A16S
ATOM  24268  C8   A   A1151     226.384 160.280  11.065  1.00 84.14      A16S
ATOM  24269  C2* A   A1151     224.702 158.332  12.869  1.00 71.74      A16S
ATOM  24270  O2* A   A1151     223.332 158.574  12.649  1.00 71.74      A16S
ATOM  24271  C3* A   A1151     224.949 157.411  14.062  1.00 71.74      A16S
ATOM  24272  O3* A   A1151     223.964 157.639  15.051  1.00 71.74      A16S
ATOM  24273  P    A   A1152     222.550 156.898  14.950  1.00 60.31      A16S
ATOM  24274  O1P A   A1152     222.209 156.484  16.332  1.00 98.44      A16S
ATOM  24275  O2P A   A1152     222.620 155.869  13.886  1.00 98.44      A16S
ATOM  24276  O5* A   A1152     221.566 158.053  14.456  1.00 60.31      A16S
ATOM  24277  C5* A   A1152     220.674 158.673  15.380  1.00 60.31      A16S
ATOM  24278  C4* A   A1152     220.206 160.025  14.888  1.00 60.31      A16S
ATOM  24279  O4* A   A1152     221.330 160.844  14.477  1.00 60.31      A16S
ATOM  24280  C1* A   A1152     220.840 161.915  13.693  1.00 60.31      A16S
ATOM  24281  N9   A   A1152     221.693 162.100  12.525  1.00 98.44      A16S
ATOM  24282  C4   A   A1152     221.824 163.275  11.831  1.00 98.44      A16S
ATOM  24283  N3   A   A1152     221.231 164.447  12.100  1.00 98.44      A16S
ATOM  24284  C2   A   A1152     221.579 165.362  11.204  1.00 98.44      A16S
ATOM  24285  N1   A   A1152     222.388 165.247  10.148  1.00 98.44      A16S
ATOM  24286  C6   A   A1152     222.967 164.054   9.907  1.00 98.44      A16S
ATOM  24287  N6   A   A1152     223.772 163.935   8.851  1.00 98.44      A16S
ATOM  24288  C5   A   A1152     222.682 163.002  10.787  1.00 98.44      A16S
ATOM  24289  N7   A   A1152     223.098 161.680  10.828  1.00 98.44      A16S
ATOM  24290  C8   A   A1152     222.488 161.192  11.879  1.00 98.44      A16S
ATOM  24291  C2* A   A1152     219.391 161.597  13.312  1.00 60.31      A16S
ATOM  24292  O2* A   A1152     218.529 162.429  14.071  1.00 60.31      A16S
ATOM  24293  C3* A   A1152     219.267 160.119  13.693  1.00 60.31      A16S
ATOM  24294  O3* A   A1152     217.915 159.821  14.057  1.00 60.31      A16S
ATOM  24295  P    C   A1153     216.787 159.660  12.914  1.00 72.84      A16S
ATOM  24296  O1P C   A1153     215.520 159.314  13.616  1.00119.28      A16S
ATOM  24297  O2P C   A1153     217.312 158.750  11.863  1.00119.28      A16S
ATOM  24298  O5* C   A1153     216.636 161.120  12.275  1.00 72.84      A16S
ATOM  24299  C5* C   A1153     215.995 162.186  13.002  1.00 72.84      A16S
ATOM  24300  C4* C   A1153     216.126 163.495  12.259  1.00 72.84      A16S
ATOM  24301  O4* C   A1153     217.525 163.793  12.022  1.00 72.84      A16S
ATOM  24302  C1* C   A1153     217.658 164.539  10.819  1.00 72.84      A16S
ATOM  24303  N1   C   A1153     218.642 163.881   9.935  1.00119.28      A16S
ATOM  24304  C6   C   A1153     218.837 162.528   9.981  1.00119.28      A16S
ATOM  24305  C2   C   A1153     219.382 164.670   9.035  1.00119.28      A16S
ATOM  24306  O2   C   A1153     219.189 165.895   9.003  1.00119.28      A16S
ATOM  24307  N3   C   A1153     220.285 164.079   8.227  1.00119.28      A16S
ATOM  24308  C4   C   A1153     220.468 162.759   8.285  1.00119.28      A16S
ATOM  24309  N4   C   A1153     221.378 162.220   7.473  1.00119.28      A16S
ATOM  24310  C5   C   A1153     219.730 161.933   9.182  1.00119.28      A16S
ATOM  24311  C2* C   A1153     216.271 164.677  10.187  1.00 72.84      A16S
ATOM  24312  O2* C   A1153     215.747 165.968  10.427  1.00 72.84      A16S
ATOM  24313  C3* C   A1153     215.493 163.561  10.881  1.00 72.84      A16S
ATOM  24314  O3* C   A1153     214.112 163.881  10.960  1.00 72.84      A16S
ATOM  24315  P    G   A1154     213.147 163.541   9.718  1.00126.57      A16S
ATOM  24316  O1P G   A1154     211.778 163.972  10.117  1.00107.24      A16S
ATOM  24317  O2P G   A1154     213.383 162.126   9.307  1.00107.24      A16S
ATOM  24318  O5* G   A1154     213.657 164.498   8.546  1.00126.57      A16S
ATOM  24319  C5* G   A1154     213.291 165.887   8.531  1.00126.57      A16S
ATOM  24320  C4* G   A1154     214.002 166.628   7.420  1.00126.57      A16S
ATOM  24321  O4* G   A1154     215.438 166.545   7.604  1.00126.57      A16S
ATOM  24322  C1* G   A1154     216.081 166.707   6.353  1.00126.57      A16S
ATOM  24323  N9   G   A1154     216.965 165.574   6.103  1.00107.24      A16S
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ATOM  24324  C4  G  A1154     217.909 165.506   5.108  1.00107.24      A16S
ATOM  24325  N3  G  A1154     218.222 166.499   4.249  1.00107.24      A16S
ATOM  24326  C2  G  A1154     219.124 166.120   3.364  1.00107.24      A16S
ATOM  24327  N2  G  A1154     219.551 166.989   2.441  1.00107.24      A16S
ATOM  24328  N1  G  A1154     219.669 164.862   3.316  1.00107.24      A16S
ATOM  24329  C6  G  A1154     219.358 163.820   4.183  1.00107.24      A16S
ATOM  24330  O6  G  A1154     219.885 162.709   4.028  1.00107.24      A16S
ATOM  24331  C5  G  A1154     218.404 164.223   5.159  1.00107.24      A16S
ATOM  24332  N7  G  A1154     217.830 163.516   6.208  1.00107.24      A16S
ATOM  24333  C8  G  A1154     216.991 164.360   6.746  1.00107.24      A16S
ATOM  24334  C2* G  A1154     214.996 166.797   5.278  1.00126.57      A16S
ATOM  24335  O2* G  A1154     214.793 168.151   4.933  1.00126.57      A16S
ATOM  24336  C3* G  A1154     213.793 166.179   5.982  1.00126.57      A16S
ATOM  24337  O3* G  A1154     212.574 166.669   5.426  1.00126.57      A16S
ATOM  24338  P   G  A1155     211.971 165.988   4.093  1.00 95.22      A16S
ATOM  24339  O1P G  A1155     210.583 166.483   3.909  1.00101.10      A16S
ATOM  24340  O2P G  A1155     212.217 164.522   4.167  1.00101.10      A16S
ATOM  24341  O5* G  A1155     212.838 166.613   2.909  1.00 95.22      A16S
ATOM  24342  C5* G  A1155     212.814 168.030   2.664  1.00 95.22      A16S
ATOM  24343  C4* G  A1155     213.854 168.410   1.640  1.00 95.22      A16S
ATOM  24344  O4* G  A1155     215.169 168.053   2.123  1.00 95.22      A16S
ATOM  24345  C1* G  A1155     215.978 167.631   1.042  1.00 95.22      A16S
ATOM  24346  N9  G  A1155     216.424 166.269   1.319  1.00101.10      A16S
ATOM  24347  C4  G  A1155     217.191 165.473   0.507  1.00101.10      A16S
ATOM  24348  N3  G  A1155     217.645 165.797  -0.718  1.00101.10      A16S
ATOM  24349  C2  G  A1155     218.351 164.821  -1.250  1.00101.10      A16S
ATOM  24350  N2  G  A1155     218.864 164.966  -2.472  1.00101.10      A16S
ATOM  24351  N1  G  A1155     218.604 163.627  -0.624  1.00101.10      A16S
ATOM  24352  C6  G  A1155     218.151 163.276   0.641  1.00101.10      A16S
ATOM  24353  O6  G  A1155     218.446 162.175   1.126  1.00101.10      A16S
ATOM  24354  C5  G  A1155     217.379 164.305   1.214  1.00101.10      A16S
ATOM  24355  N7  G  A1155     216.728 164.359   2.435  1.00101.10      A16S
ATOM  24356  C8  G  A1155     216.172 165.537   2.451  1.00101.10      A16S
ATOM  24357  C2* G  A1155     215.156 167.766  -0.241  1.00 95.22      A16S
ATOM  24358  O2* G  A1155     215.467 168.997  -0.862  1.00 95.22      A16S
ATOM  24359  C3* G  A1155     213.732 167.720   0.297  1.00 95.22      A16S
ATOM  24360  O3* G  A1155     212.826 168.421  -0.539  1.00 95.22      A16S
ATOM  24361  P   G  A1156     211.858 167.593  -1.513  1.00 89.30      A16S
ATOM  24362  O1P G  A1156     211.121 168.554  -2.383  1.00 73.08      A16S
ATOM  24363  O2P G  A1156     211.096 166.614  -0.681  1.00 73.08      A16S
ATOM  24364  O5* G  A1156     212.875 166.769  -2.420  1.00 89.30      A16S
ATOM  24365  C5* G  A1156     213.804 167.443  -3.285  1.00 89.30      A16S
ATOM  24366  C4* G  A1156     214.609 166.439  -4.067  1.00 89.30      A16S
ATOM  24367  O4* G  A1156     215.623 165.835  -3.227  1.00 89.30      A16S
ATOM  24368  C1* G  A1156     215.828 164.496  -3.631  1.00 89.30      A16S
ATOM  24369  N9  G  A1156     215.544 163.623  -2.498  1.00 73.08      A16S
ATOM  24370  C4  G  A1156     216.208 162.468  -2.174  1.00 73.08      A16S
ATOM  24371  N3  G  A1156     217.259 161.946  -2.837  1.00 73.08      A16S
ATOM  24372  C2  G  A1156     217.675 160.818  -2.293  1.00 73.08      A16S
ATOM  24373  N2  G  A1156     218.710 160.154  -2.833  1.00 73.08      A16S
ATOM  24374  N1  G  A1156     217.107 160.253  -1.180  1.00 73.08      A16S
ATOM  24375  C6  G  A1156     216.023 160.774  -0.484  1.00 73.08      A16S
ATOM  24376  O6  G  A1156     215.582 160.180   0.504  1.00 73.08      A16S
ATOM  24377  C5  G  A1156     215.567 161.978  -1.060  1.00 73.08      A16S
ATOM  24378  N7  G  A1156     214.527 162.811  -0.685  1.00 73.08      A16S
ATOM  24379  C8  G  A1156     214.553 163.775  -1.562  1.00 73.08      A16S
ATOM  24380  C2* G  A1156     214.892 164.214  -4.809  1.00 89.30      A16S
ATOM  24381  O2* G  A1156     215.567 164.405  -6.034  1.00 89.30      A16S
ATOM  24382  C3* G  A1156     213.819 165.264  -4.602  1.00 89.30      A16S
ATOM  24383  O3* G  A1156     213.133 165.580  -5.794  1.00 89.30      A16S
ATOM  24384  P   A  A1157     211.558 165.291  -5.889  1.00111.06      A16S
ATOM  24385  O1P A  A1157     210.926 166.537  -6.388  1.00 90.58      A16S
ATOM  24386  O2P A  A1157     211.112 164.702  -4.601  1.00 90.58      A16S
ATOM  24387  O5* A  A1157     211.435 164.173  -7.016  1.00111.06      A16S
ATOM  24388  C5* A  A1157     210.188 163.490  -7.265  1.00111.06      A16S
ATOM  24389  C4* A  A1157     210.460 162.075  -7.717  1.00111.06      A16S
ATOM  24390  O4* A  A1157     211.208 162.117  -8.959  1.00111.06      A16S
ATOM  24391  C1* A  A1157     212.445 161.450  -8.805  1.00111.06      A16S
ATOM  24392  N9  A  A1157     213.458 162.201  -9.550  1.00 90.58      A16S
ATOM  24393  C4  A  A1157     214.620 161.709 -10.091  1.00 90.58      A16S
ATOM  24394  N3  A  A1157     215.068 160.444 -10.054  1.00 90.58      A16S
ATOM  24395  C2  A  A1157     216.241 160.344 -10.677  1.00 90.58      A16S
ATOM  24396  N1  A  A1157     216.960 161.293 -11.287  1.00 90.58      A16S
ATOM  24397  C6  A  A1157     216.476 162.554 -11.308  1.00 90.58      A16S
ATOM  24398  N6  A  A1157     217.187 163.507 -11.915  1.00 90.58      A16S
ATOM  24399  C5  A  A1157     215.245 162.790 -10.683  1.00 90.58      A16S
ATOM  24400  N7  A  A1157     214.492 163.941 -10.525  1.00 90.58      A16S
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ATOM  24401  C8   A  A1157     213.446 163.539  -9.851  1.00 90.58      A16S
ATOM  24402  C2*  A  A1157     212.705 161.374  -7.299  1.00111.06      A16S
ATOM  24403  O2*  A  A1157     213.537 160.279  -6.970  1.00111.06      A16S
ATOM  24404  C3*  A  A1157     211.288 161.246  -6.741  1.00111.06      A16S
ATOM  24405  O3*  A  A1157     210.880 159.880  -6.804  1.00111.06      A16S
ATOM  24406  P    C  A1158     209.429 159.447  -6.264  1.00 80.47      A16S
ATOM  24407  O1P  C  A1158     209.119 160.263  -5.057  1.00114.40      A16S
ATOM  24408  O2P  C  A1158     209.418 157.963  -6.167  1.00114.40      A16S
ATOM  24409  O5*  C  A1158     208.433 159.890  -7.432  1.00 80.47      A16S
ATOM  24410  C5*  C  A1158     207.011 159.852  -7.222  1.00 80.47      A16S
ATOM  24411  C4*  C  A1158     206.283 160.750  -8.204  1.00 80.47      A16S
ATOM  24412  O4*  C  A1158     206.915 162.049  -8.233  1.00 80.47      A16S
ATOM  24413  C1*  C  A1158     206.598 162.684  -9.452  1.00 80.47      A16S
ATOM  24414  N1   C  A1158     207.783 163.414  -9.937  1.00114.40      A16S
ATOM  24415  C6   C  A1158     207.791 164.781  -9.934  1.00114.40      A16S
ATOM  24416  C2   C  A1158     208.893 162.706 -10.405  1.00114.40      A16S
ATOM  24417  O2   C  A1158     208.879 161.470 -10.365  1.00114.40      A16S
ATOM  24418  N3   C  A1158     209.958 163.389 -10.878  1.00114.40      A16S
ATOM  24419  C4   C  A1158     209.950 164.722 -10.881  1.00114.40      A16S
ATOM  24420  N4   C  A1158     211.017 165.354 -11.370  1.00114.40      A16S
ATOM  24421  C5   C  A1158     208.845 165.468 -10.389  1.00114.40      A16S
ATOM  24422  C2*  C  A1158     205.968 161.652 -10.396  1.00 80.47      A16S
ATOM  24423  O2*  C  A1158     204.596 161.944 -10.523  1.00 80.47      A16S
ATOM  24424  C3*  C  A1158     206.228 160.328  -9.667  1.00 80.47      A16S
ATOM  24425  O3*  C  A1158     205.135 159.420  -9.868  1.00 80.47      A16S
ATOM  24426  P    U  A1159     205.312 158.128 -10.814  1.00103.04      A16S
ATOM  24427  O1P  U  A1159     204.241 157.171 -10.442  1.00119.30      A16S
ATOM  24428  O2P  U  A1159     206.734 157.691 -10.753  1.00119.30      A16S
ATOM  24429  O5*  U  A1159     204.981 158.682 -12.274  1.00103.04      A16S
ATOM  24430  C5*  U  A1159     205.849 158.407 -13.391  1.00103.04      A16S
ATOM  24431  C4*  U  A1159     206.082 159.668 -14.189  1.00103.04      A16S
ATOM  24432  O4*  U  A1159     207.226 159.486 -15.067  1.00103.04      A16S
ATOM  24433  C1*  U  A1159     206.862 159.801 -16.395  1.00103.04      A16S
ATOM  24434  N1   U  A1159     207.578 158.890 -17.308  1.00119.30      A16S
ATOM  24435  C6   U  A1159     207.613 157.529 -17.088  1.00119.30      A16S
ATOM  24436  C2   U  A1159     208.226 159.445 -18.404  1.00119.30      A16S
ATOM  24437  O2   U  A1159     208.223 160.640 -18.646  1.00119.30      A16S
ATOM  24438  N3   U  A1159     208.878 158.543 -19.210  1.00119.30      A16S
ATOM  24439  C4   U  A1159     208.947 157.176 -19.046  1.00119.30      A16S
ATOM  24440  O4   U  A1159     209.541 156.494 -19.883  1.00119.30      A16S
ATOM  24441  C5   U  A1159     208.258 156.679 -17.897  1.00119.30      A16S
ATOM  24442  C2*  U  A1159     205.337 159.700 -16.463  1.00103.04      A16S
ATOM  24443  O2*  U  A1159     204.841 160.536 -17.491  1.00103.04      A16S
ATOM  24444  C3*  U  A1159     204.922 160.148 -15.058  1.00103.04      A16S
ATOM  24445  O3*  U  A1159     204.860 161.573 -15.019  1.00103.04      A16S
ATOM  24446  P    G  A1160     203.762 162.320 -14.099  1.00105.15      A16S
ATOM  24447  O1P  G  A1160     203.784 161.685 -12.754  1.00 94.67      A16S
ATOM  24448  O2P  G  A1160     202.478 162.401 -14.857  1.00 94.67      A16S
ATOM  24449  O5*  G  A1160     204.361 163.794 -13.988  1.00105.15      A16S
ATOM  24450  C5*  G  A1160     203.904 164.733 -13.000  1.00105.15      A16S
ATOM  24451  C4*  G  A1160     204.843 165.922 -12.941  1.00105.15      A16S
ATOM  24452  O4*  G  A1160     206.117 165.526 -12.364  1.00105.15      A16S
ATOM  24453  C1*  G  A1160     207.165 166.285 -12.952  1.00105.15      A16S
ATOM  24454  N9   G  A1160     208.158 165.382 -13.529  1.00 94.67      A16S
ATOM  24455  C4   G  A1160     209.340 165.762 -14.112  1.00 94.67      A16S
ATOM  24456  N3   G  A1160     209.790 167.026 -14.229  1.00 94.67      A16S
ATOM  24457  C2   G  A1160     210.952 167.080 -14.848  1.00 94.67      A16S
ATOM  24458  N2   G  A1160     211.551 168.263 -15.034  1.00 94.67      A16S
ATOM  24459  N1   G  A1160     211.616 165.979 -15.328  1.00 94.67      A16S
ATOM  24460  C6   G  A1160     211.169 164.668 -15.223  1.00 94.67      A16S
ATOM  24461  O6   G  A1160     211.844 163.744 -15.701  1.00 94.67      A16S
ATOM  24462  C5   G  A1160     209.928 164.595 -14.546  1.00 94.67      A16S
ATOM  24463  N7   G  A1160     209.142 163.499 -14.223  1.00 94.67      A16S
ATOM  24464  C8   G  A1160     208.105 164.012 -13.619  1.00 94.67      A16S
ATOM  24465  C2*  G  A1160     206.554 167.204 -14.009  1.00105.15      A16S
ATOM  24466  O2*  G  A1160     206.438 168.517 -13.510  1.00105.15      A16S
ATOM  24467  C3*  G  A1160     205.217 166.529 -14.284  1.00105.15      A16S
ATOM  24468  O3*  G  A1160     204.265 167.463 -14.745  1.00105.15      A16S
ATOM  24469  P    C  A1161     204.208 167.810 -16.306  1.00104.88      A16S
ATOM  24470  O1P  C  A1161     203.314 168.987 -16.469  1.00123.14      A16S
ATOM  24471  O2P  C  A1161     203.910 166.553 -17.039  1.00123.14      A16S
ATOM  24472  O5*  C  A1161     205.705 168.228 -16.658  1.00104.88      A16S
ATOM  24473  C5*  C  A1161     206.175 169.568 -16.433  1.00104.88      A16S
ATOM  24474  C4*  C  A1161     207.379 169.854 -17.300  1.00104.88      A16S
ATOM  24475  O4*  C  A1161     208.514 169.087 -16.828  1.00104.88      A16S
ATOM  24476  C1*  C  A1161     209.323 168.708 -17.932  1.00104.88      A16S
ATOM  24477  N1   C  A1161     209.447 167.235 -17.960  1.00123.14      A16S
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ATOM  24478  C6  C  A1161     208.479 166.433 -17.418  1.00123.14      A16S
ATOM  24479  C2  C  A1161     210.579 166.663 -18.561  1.00123.14      A16S
ATOM  24480  O2  C  A1161     211.448 167.407 -19.044  1.00123.14      A16S
ATOM  24481  N3  C  A1161     210.697 165.318 -18.601  1.00123.14      A16S
ATOM  24482  C4  C  A1161     209.745 164.549 -18.071  1.00123.14      A16S
ATOM  24483  N4  C  A1161     209.907 163.228 -18.132  1.00123.14      A16S
ATOM  24484  C5  C  A1161     208.586 165.100 -17.453  1.00123.14      A16S
ATOM  24485  C2* C  A1161     208.692 169.280 -19.202  1.00104.88      A16S
ATOM  24486  O2* C  A1161     209.334 170.491 -19.542  1.00104.88      A16S
ATOM  24487  C3* C  A1161     207.245 169.477 -18.768  1.00104.88      A16S
ATOM  24488  O3* C  A1161     206.590 170.483 -19.529  1.00104.88      A16S
ATOM  24489  P   C  A1162     205.848 170.084 -20.897  1.00110.89      A16S
ATOM  24490  O1P C  A1162     205.134 171.292 -21.386  1.00122.39      A16S
ATOM  24491  O2P C  A1162     205.089 168.828 -20.667  1.00122.39      A16S
ATOM  24492  O5* C  A1162     207.043 169.770 -21.902  1.00110.89      A16S
ATOM  24493  C5* C  A1162     207.815 170.836 -22.481  1.00110.89      A16S
ATOM  24494  C4* C  A1162     208.708 170.301 -23.573  1.00110.89      A16S
ATOM  24495  O4* C  A1162     209.719 169.442 -22.990  1.00110.89      A16S
ATOM  24496  C1* C  A1162     209.999 168.368 -23.872  1.00110.89      A16S
ATOM  24497  N1  C  A1162     209.763 167.094 -23.159  1.00122.39      A16S
ATOM  24498  C6  C  A1162     208.988 167.052 -22.030  1.00122.39      A16S
ATOM  24499  C2  C  A1162     210.357 165.918 -23.650  1.00122.39      A16S
ATOM  24500  O2  C  A1162     211.046 165.972 -24.683  1.00122.39      A16S
ATOM  24501  N3  C  A1162     210.162 164.755 -22.986  1.00122.39      A16S
ATOM  24502  C4  C  A1162     209.414 164.732 -21.880  1.00122.39      A16S
ATOM  24503  N4  C  A1162     209.264 163.565 -21.252  1.00122.39      A16S
ATOM  24504  C5  C  A1162     208.791 165.906 -21.367  1.00122.39      A16S
ATOM  24505  C2* C  A1162     209.150 168.554 -25.133  1.00110.89      A16S
ATOM  24506  O2* C  A1162     209.928 169.183 -26.133  1.00110.89      A16S
ATOM  24507  C3* C  A1162     208.019 169.440 -24.620  1.00110.89      A16S
ATOM  24508  O3* C  A1162     207.431 170.232 -25.651  1.00110.89      A16S
ATOM  24509  P   C  A1163     206.226 169.627 -26.526  1.00119.07      A16S
ATOM  24510  O1P C  A1163     205.780 170.679 -27.474  1.00117.77      A16S
ATOM  24511  O2P C  A1163     205.242 169.004 -25.607  1.00117.77      A16S
ATOM  24512  O5* C  A1163     206.921 168.462 -27.356  1.00119.07      A16S
ATOM  24513  C5* C  A1163     207.888 168.764 -28.372  1.00119.07      A16S
ATOM  24514  C4* C  A1163     208.253 167.512 -29.124  1.00119.07      A16S
ATOM  24515  O4* C  A1163     209.131 166.682 -28.323  1.00119.07      A16S
ATOM  24516  C1* C  A1163     208.815 165.314 -28.533  1.00119.07      A16S
ATOM  24517  N1  C  A1163     208.402 164.728 -27.241  1.00117.77      A16S
ATOM  24518  C6  C  A1163     207.929 165.523 -26.232  1.00117.77      A16S
ATOM  24519  C2  C  A1163     208.497 163.336 -27.058  1.00117.77      A16S
ATOM  24520  O2  C  A1163     208.926 162.628 -27.982  1.00117.77      A16S
ATOM  24521  N3  C  A1163     208.119 162.801 -25.877  1.00117.77      A16S
ATOM  24522  C4  C  A1163     207.662 163.590 -24.902  1.00117.77      A16S
ATOM  24523  N4  C  A1163     207.304 163.017 -23.754  1.00117.77      A16S
ATOM  24524  C5  C  A1163     207.553 165.001 -25.061  1.00117.77      A16S
ATOM  24525  C2* C  A1163     207.712 165.249 -29.592  1.00119.07      A16S
ATOM  24526  O2* C  A1163     208.282 165.046 -30.868  1.00119.07      A16S
ATOM  24527  C3* C  A1163     207.072 166.621 -29.450  1.00119.07      A16S
ATOM  24528  O3* C  A1163     206.394 167.050 -30.615  1.00119.07      A16S
ATOM  24529  P   G  A1164     204.827 166.750 -30.763  1.00107.23      A16S
ATOM  24530  O1P G  A1164     204.327 167.543 -31.918  1.00114.91      A16S
ATOM  24531  O2P G  A1164     204.201 166.928 -29.423  1.00114.91      A16S
ATOM  24532  O5* G  A1164     204.789 165.206 -31.158  1.00107.23      A16S
ATOM  24533  C5* G  A1164     205.390 164.757 -32.384  1.00107.23      A16S
ATOM  24534  C4* G  A1164     205.517 163.252 -32.400  1.00107.23      A16S
ATOM  24535  O4* G  A1164     206.491 162.815 -31.416  1.00107.23      A16S
ATOM  24536  C1* G  A1164     206.116 161.543 -30.906  1.00107.23      A16S
ATOM  24537  N9  G  A1164     205.824 161.677 -29.483  1.00114.91      A16S
ATOM  24538  C4  G  A1164     205.574 160.650 -28.608  1.00114.91      A16S
ATOM  24539  N3  G  A1164     205.612 159.334 -28.900  1.00114.91      A16S
ATOM  24540  C2  G  A1164     205.291 158.589 -27.859  1.00114.91      A16S
ATOM  24541  N2  G  A1164     205.290 157.256 -27.968  1.00114.91      A16S
ATOM  24542  N1  G  A1164     204.950 159.096 -26.633  1.00114.91      A16S
ATOM  24543  C6  G  A1164     204.904 160.448 -26.312  1.00114.91      A16S
ATOM  24544  O6  G  A1164     204.578 160.802 -25.174  1.00114.91      A16S
ATOM  24545  C5  G  A1164     205.257 161.256 -27.415  1.00114.91      A16S
ATOM  24546  N7  G  A1164     205.340 162.636 -27.525  1.00114.91      A16S
ATOM  24547  C8  G  A1164     205.688 162.839 -28.764  1.00114.91      A16S
ATOM  24548  C2* G  A1164     204.842 161.117 -31.632  1.00107.23      A16S
ATOM  24549  O2* G  A1164     205.149 160.271 -32.722  1.00107.23      A16S
ATOM  24550  C3* G  A1164     204.271 162.462 -32.053  1.00107.23      A16S
ATOM  24551  O3* G  A1164     203.359 162.340 -33.122  1.00107.23      A16S
ATOM  24552  P   C  A1165     201.813 162.066 -32.794  1.00118.41      A16S
ATOM  24553  O1P C  A1165     201.046 162.203 -34.065  1.00 78.02      A16S
ATOM  24554  O2P C  A1165     201.445 162.902 -31.618  1.00 78.02      A16S
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ATOM  24555  O5*  C   A1165     201.788 160.540 -32.334  1.00118.41      A16S
ATOM  24556  C5*  C   A1165     202.111 159.488 -33.259  1.00118.41      A16S
ATOM  24557  C4*  C   A1165     201.807 158.141 -32.650  1.00118.41      A16S
ATOM  24558  O4*  C   A1165     202.689 157.909 -31.522  1.00118.41      A16S
ATOM  24559  C1*  C   A1165     202.006 157.156 -30.533  1.00118.41      A16S
ATOM  24560  N1   C   A1165     201.903 157.958 -29.306  1.00 78.02      A16S
ATOM  24561  C6   C   A1165     201.891 159.324 -29.355  1.00 78.02      A16S
ATOM  24562  C2   C   A1165     201.802 157.295 -28.078  1.00 78.02      A16S
ATOM  24563  O2   C   A1165     201.811 156.049 -28.060  1.00 78.02      A16S
ATOM  24564  N3   C   A1165     201.692 158.020 -26.945  1.00 78.02      A16S
ATOM  24565  C4   C   A1165     201.678 159.352 -27.005  1.00 78.02      A16S
ATOM  24566  N4   C   A1165     201.561 160.028 -25.859  1.00 78.02      A16S
ATOM  24567  C5   C   A1165     201.780 160.052 -28.241  1.00 78.02      A16S
ATOM  24568  C2*  C   A1165     200.613 156.841 -31.066  1.00118.41      A16S
ATOM  24569  O2*  C   A1165     200.602 155.560 -31.662  1.00118.41      A16S
ATOM  24570  C3*  C   A1165     200.413 157.965 -32.068  1.00118.41      A16S
ATOM  24571  O3*  C   A1165     199.429 157.624 -33.025  1.00118.41      A16S
ATOM  24572  P    G   A1166     197.888 157.936 -32.705  1.00118.91      A16S
ATOM  24573  O1P  G   A1166     197.072 157.186 -33.693  1.00 97.95      A16S
ATOM  24574  O2P  G   A1166     197.723 159.409 -32.580  1.00 97.95      A16S
ATOM  24575  O5*  G   A1166     197.654 157.292 -31.266  1.00118.91      A16S
ATOM  24576  C5*  G   A1166     197.569 155.865 -31.102  1.00118.91      A16S
ATOM  24577  C4*  G   A1166     197.091 155.517 -29.711  1.00118.91      A16S
ATOM  24578  O4*  G   A1166     198.112 155.854 -28.733  1.00118.91      A16S
ATOM  24579  C1*  G   A1166     197.495 156.273 -27.525  1.00118.91      A16S
ATOM  24580  N9   G   A1166     197.818 157.678 -27.303  1.00 97.95      A16S
ATOM  24581  C4   G   A1166     197.875 158.319 -26.093  1.00 97.95      A16S
ATOM  24582  N3   G   A1166     197.681 157.751 -24.889  1.00 97.95      A16S
ATOM  24583  C2   G   A1166     197.774 158.631 -23.908  1.00 97.95      A16S
ATOM  24584  N2   G   A1166     197.608 158.236 -22.645  1.00 97.95      A16S
ATOM  24585  N1   G   A1166     198.038 159.963 -24.090  1.00 97.95      A16S
ATOM  24586  C6   G   A1166     198.245 160.573 -25.319  1.00 97.95      A16S
ATOM  24587  O6   G   A1166     198.479 161.789 -25.371  1.00 97.95      A16S
ATOM  24588  C5   G   A1166     198.146 159.637 -26.387  1.00 97.95      A16S
ATOM  24589  N7   G   A1166     198.278 159.818 -27.757  1.00 97.95      A16S
ATOM  24590  C8   G   A1166     198.084 158.630 -28.258  1.00 97.95      A16S
ATOM  24591  C2*  G   A1166     195.986 156.127 -27.710  1.00118.91      A16S
ATOM  24592  O2*  G   A1166     195.552 154.864 -27.246  1.00118.91      A16S
ATOM  24593  C3*  G   A1166     195.858 156.254 -29.218  1.00118.91      A16S
ATOM  24594  O3*  G   A1166     194.630 155.735 -29.692  1.00118.91      A16S
ATOM  24595  P    A   A1167     193.419 156.751 -29.974  1.00108.75      A16S
ATOM  24596  O1P  A   A1167     192.190 155.946 -30.184  1.00 77.92      A16S
ATOM  24597  O2P  A   A1167     193.870 157.694 -31.032  1.00 77.92      A16S
ATOM  24598  O5*  A   A1167     193.271 157.552 -28.599  1.00108.75      A16S
ATOM  24599  C5*  A   A1167     192.384 158.688 -28.479  1.00108.75      A16S
ATOM  24600  C4*  A   A1167     191.528 158.558 -27.236  1.00108.75      A16S
ATOM  24601  O4*  A   A1167     190.692 157.382 -27.368  1.00108.75      A16S
ATOM  24602  C1*  A   A1167     190.578 156.731 -26.116  1.00108.75      A16S
ATOM  24603  N9   A   A1167     191.127 155.384 -26.267  1.00 77.92      A16S
ATOM  24604  C4   A   A1167     191.153 154.386 -25.325  1.00 77.92      A16S
ATOM  24605  N3   A   A1167     190.690 154.440 -24.066  1.00 77.92      A16S
ATOM  24606  C2   A   A1167     190.875 153.277 -23.455  1.00 77.92      A16S
ATOM  24607  N1   A   A1167     191.429 152.151 -23.925  1.00 77.92      A16S
ATOM  24608  C6   A   A1167     191.885 152.136 -25.192  1.00 77.92      A16S
ATOM  24609  N6   A   A1167     192.434 151.018 -25.664  1.00 77.92      A16S
ATOM  24610  C5   A   A1167     191.753 153.302 -25.942  1.00 77.92      A16S
ATOM  24611  N7   A   A1167     192.113 153.613 -27.241  1.00 77.92      A16S
ATOM  24612  C8   A   A1167     191.720 154.853 -27.387  1.00 77.92      A16S
ATOM  24613  C2*  A   A1167     191.304 157.580 -25.068  1.00108.75      A16S
ATOM  24614  O2*  A   A1167     190.381 158.413 -24.395  1.00108.75      A16S
ATOM  24615  C3*  A   A1167     192.284 158.368 -25.927  1.00108.75      A16S
ATOM  24616  O3*  A   A1167     192.590 159.620 -25.323  1.00108.75      A16S
ATOM  24617  P    A   A1168     194.009 159.830 -24.600  1.00 92.75      A16S
ATOM  24618  O1P  A   A1168     194.107 161.262 -24.218  1.00 74.68      A16S
ATOM  24619  O2P  A   A1168     195.048 159.235 -25.481  1.00 74.68      A16S
ATOM  24620  O5*  A   A1168     193.919 158.960 -23.265  1.00 92.75      A16S
ATOM  24621  C5*  A   A1168     193.104 159.380 -22.151  1.00 92.75      A16S
ATOM  24622  C4*  A   A1168     192.982 158.262 -21.139  1.00 92.75      A16S
ATOM  24623  O4*  A   A1168     192.405 157.099 -21.787  1.00 92.75      A16S
ATOM  24624  C1*  A   A1168     193.005 155.920 -21.280  1.00 92.75      A16S
ATOM  24625  N9   A   A1168     193.663 155.227 -22.391  1.00 74.68      A16S
ATOM  24626  C4   A   A1168     193.911 153.879 -22.494  1.00 74.68      A16S
ATOM  24627  N3   A   A1168     193.623 152.924 -21.596  1.00 74.68      A16S
ATOM  24628  C2   A   A1168     193.991 151.734 -22.047  1.00 74.68      A16S
ATOM  24629  N1   A   A1168     194.565 151.410 -23.209  1.00 74.68      A16S
ATOM  24630  C6   A   A1168     194.833 152.393 -24.091  1.00 74.68      A16S
ATOM  24631  N6   A   A1168     195.381 152.071 -25.264  1.00 74.68      A16S
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ATOM  24632  C5  A   A1168     194.507 153.701 -23.726  1.00 74.68      A16S
ATOM  24633  N7  A   A1168     194.659 154.913 -24.379  1.00 74.68      A16S
ATOM  24634  C8  A   A1168     194.147 155.783 -23.550  1.00 74.68      A16S
ATOM  24635  C2* A   A1168     193.968 156.327 -20.163  1.00 92.75      A16S
ATOM  24636  O2* A   A1168     193.313 156.219 -18.917  1.00 92.75      A16S
ATOM  24637  C3* A   A1168     194.288 157.769 -20.533  1.00 92.75      A16S
ATOM  24638  O3* A   A1168     194.626 158.520 -19.376  1.00 92.75      A16S
ATOM  24639  P   A   A1169     196.168 158.805 -19.028  1.00 67.45      A16S
ATOM  24640  O1P A   A1169     196.184 159.783 -17.910  1.00 81.44      A16S
ATOM  24641  O2P A   A1169     196.865 159.137 -20.293  1.00 81.44      A16S
ATOM  24642  O5* A   A1169     196.729 157.415 -18.478  1.00 67.45      A16S
ATOM  24643  C5* A   A1169     196.495 157.012 -17.115  1.00 67.45      A16S
ATOM  24644  C4* A   A1169     196.512 155.504 -16.998  1.00 67.45      A16S
ATOM  24645  O4* A   A1169     195.712 154.961 -18.077  1.00 67.45      A16S
ATOM  24646  C1* A   A1169     196.291 153.761 -18.547  1.00 67.45      A16S
ATOM  24647  N9  A   A1169     196.727 153.987 -19.922  1.00 81.44      A16S
ATOM  24648  C4  A   A1169     196.994 153.027 -20.864  1.00 81.44      A16S
ATOM  24649  N3  A   A1169     196.883 151.696 -20.725  1.00 81.44      A16S
ATOM  24650  C2  A   A1169     197.248 151.080 -21.840  1.00 81.44      A16S
ATOM  24651  N1  A   A1169     197.675 151.603 -22.990  1.00 81.44      A16S
ATOM  24652  C6  A   A1169     197.768 152.944 -23.098  1.00 81.44      A16S
ATOM  24653  N6  A   A1169     198.184 153.468 -24.253  1.00 81.44      A16S
ATOM  24654  C5  A   A1169     197.415 153.709 -21.987  1.00 81.44      A16S
ATOM  24655  N7  A   A1169     197.398 155.075 -21.766  1.00 81.44      A16S
ATOM  24656  C8  A   A1169     196.981 155.188 -20.533  1.00 81.44      A16S
ATOM  24657  C2* A   A1169     197.476 153.436 -17.639  1.00 67.45      A16S
ATOM  24658  O2* A   A1169     197.064 152.583 -16.588  1.00 67.45      A16S
ATOM  24659  C3* A   A1169     197.864 154.819 -17.141  1.00 67.45      A16S
ATOM  24660  O3* A   A1169     198.561 154.729 -15.903  1.00 67.45      A16S
ATOM  24661  P   G   A1171     200.003 155.424 -15.747  1.00 92.23      A16S
ATOM  24662  O1P G   A1171     200.544 155.009 -14.419  1.00 84.12      A16S
ATOM  24663  O2P G   A1171     199.846 156.869 -16.061  1.00 84.12      A16S
ATOM  24664  O5* G   A1171     200.887 154.777 -16.906  1.00 92.23      A16S
ATOM  24665  C5* G   A1171     201.096 153.359 -16.959  1.00 92.23      A16S
ATOM  24666  C4* G   A1171     201.288 152.904 -18.385  1.00 92.23      A16S
ATOM  24667  O4* G   A1171     200.282 153.538 -19.216  1.00 92.23      A16S
ATOM  24668  C1* G   A1171     200.796 153.735 -20.517  1.00 92.23      A16S
ATOM  24669  N9  G   A1171     200.746 155.158 -20.836  1.00 84.12      A16S
ATOM  24670  C4  G   A1171     200.922 155.705 -22.082  1.00 84.12      A16S
ATOM  24671  N3  G   A1171     201.192 155.021 -23.212  1.00 84.12      A16S
ATOM  24672  C2  G   A1171     201.292 155.818 -24.259  1.00 84.12      A16S
ATOM  24673  N2  G   A1171     201.565 155.299 -25.465  1.00 84.12      A16S
ATOM  24674  N1  G   A1171     201.133 157.180 -24.203  1.00 84.12      A16S
ATOM  24675  C6  G   A1171     200.852 157.906 -23.051  1.00 84.12      A16S
ATOM  24676  O6  G   A1171     200.716 159.130 -23.116  1.00 84.12      A16S
ATOM  24677  C5  G   A1171     200.754 157.062 -21.915  1.00 84.12      A16S
ATOM  24678  N7  G   A1171     200.497 157.367 -20.584  1.00 84.12      A16S
ATOM  24679  C8  G   A1171     200.506 156.208 -19.980  1.00 84.12      A16S
ATOM  24680  C2* G   A1171     202.217 153.180 -20.547  1.00 92.23      A16S
ATOM  24681  O2* G   A1171     202.163 151.854 -21.040  1.00 92.23      A16S
ATOM  24682  C3* G   A1171     202.603 153.239 -19.074  1.00 92.23      A16S
ATOM  24683  O3* G   A1171     203.620 152.284 -18.774  1.00 92.23      A16S
ATOM  24684  P   C   A1172     205.154 152.604 -19.152  1.00 81.47      A16S
ATOM  24685  O1P C   A1172     206.004 151.494 -18.641  1.00 84.57      A16S
ATOM  24686  O2P C   A1172     205.451 154.002 -18.748  1.00 84.57      A16S
ATOM  24687  O5* C   A1172     205.182 152.536 -20.742  1.00 81.47      A16S
ATOM  24688  C5* C   A1172     204.989 151.284 -21.412  1.00 81.47      A16S
ATOM  24689  C4* C   A1172     205.328 151.410 -22.872  1.00 81.47      A16S
ATOM  24690  O4* C   A1172     204.363 152.263 -23.533  1.00 81.47      A16S
ATOM  24691  C1* C   A1172     204.997 152.966 -24.588  1.00 81.47      A16S
ATOM  24692  N1  C   A1172     204.857 154.412 -24.358  1.00 84.57      A16S
ATOM  24693  C6  C   A1172     204.656 154.914 -23.099  1.00 84.57      A16S
ATOM  24694  C2  C   A1172     204.946 155.281 -25.463  1.00 84.57      A16S
ATOM  24695  O2  C   A1172     205.114 154.803 -26.599  1.00 84.57      A16S
ATOM  24696  N3  C   A1172     204.846 156.613 -25.263  1.00 84.57      A16S
ATOM  24697  C4  C   A1172     204.659 157.090 -24.030  1.00 84.57      A16S
ATOM  24698  N4  C   A1172     204.576 158.410 -23.882  1.00 84.57      A16S
ATOM  24699  C5  C   A1172     204.551 156.231 -22.891  1.00 84.57      A16S
ATOM  24700  C2* C   A1172     206.461 152.537 -24.621  1.00 81.47      A16S
ATOM  24701  O2* C   A1172     206.602 151.523 -25.596  1.00 81.47      A16S
ATOM  24702  C3* C   A1172     206.667 152.042 -23.194  1.00 81.47      A16S
ATOM  24703  O3* C   A1172     207.736 151.116 -23.079  1.00 81.47      A16S
ATOM  24704  P   G   A1173     209.200 151.649 -22.679  1.00 97.67      A16S
ATOM  24705  O1P G   A1173     210.087 150.462 -22.574  1.00110.32      A16S
ATOM  24706  O2P G   A1173     209.070 152.573 -21.514  1.00110.32      A16S
ATOM  24707  O5* G   A1173     209.653 152.499 -23.950  1.00 97.67      A16S
ATOM  24708  C5* G   A1173     209.900 151.853 -25.211  1.00 97.67      A16S
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ATOM  24709  C4* G   A1173     210.217 152.872 -26.280  1.00 97.67      A16S
ATOM  24710  O4* G   A1173     209.036 153.646 -26.604  1.00 97.67      A16S
ATOM  24711  C1* G   A1173     209.415 154.956 -26.990  1.00 97.67      A16S
ATOM  24712  N9  G   A1173     208.753 155.911 -26.109  1.00110.32      A16S
ATOM  24713  C4  G   A1173     208.510 157.241 -26.371  1.00110.32      A16S
ATOM  24714  N3  G   A1173     208.809 157.895 -27.514  1.00110.32      A16S
ATOM  24715  C2  G   A1173     208.477 159.175 -27.451  1.00110.32      A16S
ATOM  24716  N2  G   A1173     208.692 159.977 -28.500  1.00110.32      A16S
ATOM  24717  N1  G   A1173     207.907 159.764 -26.354  1.00110.32      A16S
ATOM  24718  C6  G   A1173     207.595 159.110 -25.168  1.00110.32      A16S
ATOM  24719  O6  G   A1173     207.092 159.738 -24.232  1.00110.32      A16S
ATOM  24720  C5  G   A1173     207.932 157.738 -25.225  1.00110.32      A16S
ATOM  24721  N7  G   A1173     207.785 156.739 -24.273  1.00110.32      A16S
ATOM  24722  C8  G   A1173     208.278 155.675 -24.843  1.00110.32      A16S
ATOM  24723  C2* G   A1173     210.941 155.045 -26.901  1.00 97.67      A16S
ATOM  24724  O2* G   A1173     211.506 154.856 -28.184  1.00 97.67      A16S
ATOM  24725  C3* G   A1173     211.267 153.911 -25.936  1.00 97.67      A16S
ATOM  24726  O3* G   A1173     212.586 153.410 -26.100  1.00 97.67      A16S
ATOM  24727  P   G   A1174     213.781 154.026 -25.219  1.00 95.67      A16S
ATOM  24728  O1P G   A1174     214.992 153.227 -25.529  1.00122.26      A16S
ATOM  24729  O2P G   A1174     213.333 154.150 -23.810  1.00122.26      A16S
ATOM  24730  O5* G   A1174     213.963 155.488 -25.829  1.00 95.67      A16S
ATOM  24731  C5* G   A1174     214.350 155.654 -27.209  1.00 95.67      A16S
ATOM  24732  C4* G   A1174     214.254 157.102 -27.635  1.00 95.67      A16S
ATOM  24733  O4* G   A1174     212.869 157.538 -27.631  1.00 95.67      A16S
ATOM  24734  C1* G   A1174     212.819 158.934 -27.370  1.00 95.67      A16S
ATOM  24735  N9  G   A1174     211.986 159.194 -26.197  1.00122.26      A16S
ATOM  24736  C4  G   A1174     211.562 160.435 -25.776  1.00122.26      A16S
ATOM  24737  N3  G   A1174     211.826 161.612 -26.386  1.00122.26      A16S
ATOM  24738  C2  G   A1174     211.306 162.636 -25.734  1.00122.26      A16S
ATOM  24739  N2  G   A1174     211.480 163.879 -26.201  1.00122.26      A16S
ATOM  24740  N1  G   A1174     210.578 162.516 -24.577  1.00122.26      A16S
ATOM  24741  C6  G   A1174     210.289 161.315 -23.931  1.00122.26      A16S
ATOM  24742  O6  G   A1174     209.619 161.320 -22.889  1.00122.26      A16S
ATOM  24743  C5  G   A1174     210.848 160.206 -24.620  1.00122.26      A16S
ATOM  24744  N7  G   A1174     210.810 158.849 -24.324  1.00122.26      A16S
ATOM  24745  C8  G   A1174     211.492 158.288 -25.288  1.00122.26      A16S
ATOM  24746  C2* G   A1174     214.252 159.424 -27.139  1.00 95.67      A16S
ATOM  24747  O2* G   A1174     214.762 160.059 -28.297  1.00 95.67      A16S
ATOM  24748  C3* G   A1174     214.974 158.132 -26.779  1.00 95.67      A16S
ATOM  24749  O3* G   A1174     216.361 158.239 -27.049  1.00 95.67      A16S
ATOM  24750  P   G   A1175     217.328 158.888 -25.941  1.00126.46      A16S
ATOM  24751  O1P G   A1175     218.703 158.915 -26.503  1.00129.35      A16S
ATOM  24752  O2P G   A1175     217.075 158.178 -24.660  1.00129.35      A16S
ATOM  24753  O5* G   A1175     216.812 160.394 -25.793  1.00126.46      A16S
ATOM  24754  C5* G   A1175     216.997 161.349 -26.859  1.00126.46      A16S
ATOM  24755  C4* G   A1175     216.488 162.723 -26.458  1.00126.46      A16S
ATOM  24756  O4* G   A1175     215.057 162.678 -26.211  1.00126.46      A16S
ATOM  24757  C1* G   A1175     214.713 163.630 -25.208  1.00126.46      A16S
ATOM  24758  N9  G   A1175     214.117 162.930 -24.069  1.00129.35      A16S
ATOM  24759  C4  G   A1175     213.548 163.515 -22.962  1.00129.35      A16S
ATOM  24760  N3  G   A1175     213.430 164.839 -22.739  1.00129.35      A16S
ATOM  24761  C2  G   A1175     212.851 165.092 -21.581  1.00129.35      A16S
ATOM  24762  N2  G   A1175     212.663 166.357 -21.195  1.00129.35      A16S
ATOM  24763  N1  G   A1175     212.415 164.123 -20.715  1.00129.35      A16S
ATOM  24764  C6  G   A1175     212.526 162.753 -20.927  1.00129.35      A16S
ATOM  24765  O6  G   A1175     212.099 161.959 -20.082  1.00129.35      A16S
ATOM  24766  C5  G   A1175     213.150 162.468 -22.159  1.00129.35      A16S
ATOM  24767  N7  G   A1175     213.457 161.250 -22.747  1.00129.35      A16S
ATOM  24768  C8  G   A1175     214.025 161.571 -23.876  1.00129.35      A16S
ATOM  24769  C2* G   A1175     215.992 164.362 -24.802  1.00126.46      A16S
ATOM  24770  O2* G   A1175     216.072 165.598 -25.491  1.00126.46      A16S
ATOM  24771  C3* G   A1175     217.066 163.350 -25.196  1.00126.46      A16S
ATOM  24772  O3* G   A1175     218.325 163.971 -25.412  1.00126.46      A16S
ATOM  24773  P   A   A1176     219.369 164.094 -24.194  1.00128.16      A16S
ATOM  24774  O1P A   A1176     220.652 164.535 -24.792  1.00129.88      A16S
ATOM  24775  O2P A   A1176     219.326 162.842 -23.392  1.00129.88      A16S
ATOM  24776  O5* A   A1176     218.790 165.278 -23.297  1.00128.16      A16S
ATOM  24777  C5* A   A1176     218.740 166.629 -23.799  1.00128.16      A16S
ATOM  24778  C4* A   A1176     218.182 167.565 -22.750  1.00128.16      A16S
ATOM  24779  O4* A   A1176     216.796 167.232 -22.484  1.00128.16      A16S
ATOM  24780  C1* A   A1176     216.500 167.470 -21.117  1.00128.16      A16S
ATOM  24781  N9  A   A1176     216.008 166.225 -20.517  1.00129.88      A16S
ATOM  24782  C4  A   A1176     215.295 166.111 -19.345  1.00129.88      A16S
ATOM  24783  N3  A   A1176     214.908 167.103 -18.525  1.00129.88      A16S
ATOM  24784  C2  A   A1176     214.235 166.617 -17.485  1.00129.88      A16S
ATOM  24785  N1  A   A1176     213.929 165.348 -17.192  1.00129.88      A16S
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ATOM  24786  C6  A   A1176     214.335 164.375 -18.036  1.00129.88      A16S
ATOM  24787  N6  A   A1176     214.037 163.108 -17.741  1.00129.88      A16S
ATOM  24788  C5  A   A1176     215.055 164.760 -19.179  1.00129.88      A16S
ATOM  24789  N7  A   A1176     215.600 164.031 -20.226  1.00129.88      A16S
ATOM  24790  C8  A   A1176     216.154 164.941 -20.989  1.00129.88      A16S
ATOM  24791  C2* A   A1176     217.764 168.022 -20.451  1.00128.16      A16S
ATOM  24792  O2* A   A1176     217.688 169.434 -20.390  1.00128.16      A16S
ATOM  24793  C3* A   A1176     218.859 167.526 -21.390  1.00128.16      A16S
ATOM  24794  O3* A   A1176     220.009 168.362 -21.360  1.00128.16      A16S
ATOM  24795  P   G   A1177     221.252 167.973 -20.417  1.00 98.20      A16S
ATOM  24796  O1P G   A1177     222.421 168.777 -20.865  1.00 95.26      A16S
ATOM  24797  O2P G   A1177     221.350 166.492 -20.403  1.00 95.26      A16S
ATOM  24798  O5* G   A1177     220.812 168.467 -18.960  1.00 98.20      A16S
ATOM  24799  C5* G   A1177     220.457 169.851 -18.709  1.00 98.20      A16S
ATOM  24800  C4* G   A1177     219.556 169.957 -17.497  1.00 98.20      A16S
ATOM  24801  O4* G   A1177     218.339 169.207 -17.742  1.00 98.20      A16S
ATOM  24802  C1* G   A1177     217.917 168.566 -16.547  1.00 98.20      A16S
ATOM  24803  N9  G   A1177     217.927 167.126 -16.776  1.00 95.26      A16S
ATOM  24804  C4  G   A1177     217.221 166.181 -16.078  1.00 95.26      A16S
ATOM  24805  N3  G   A1177     216.378 166.420 -15.055  1.00 95.26      A16S
ATOM  24806  C2  G   A1177     215.850 165.305 -14.582  1.00 95.26      A16S
ATOM  24807  N2  G   A1177     214.988 165.357 -13.555  1.00 95.26      A16S
ATOM  24808  N1  G   A1177     216.127 164.056 -15.079  1.00 95.26      A16S
ATOM  24809  C6  G   A1177     216.992 163.788 -16.134  1.00 95.26      A16S
ATOM  24810  O6  G   A1177     217.174 162.621 -16.505  1.00 95.26      A16S
ATOM  24811  C5  G   A1177     217.564 164.975 -16.647  1.00 95.26      A16S
ATOM  24812  N7  G   A1177     218.464 165.158 -17.683  1.00 95.26      A16S
ATOM  24813  C8  G   A1177     218.650 166.447 -17.724  1.00 95.26      A16S
ATOM  24814  C2* G   A1177     218.879 168.969 -15.429  1.00 98.20      A16S
ATOM  24815  O2* G   A1177     218.329 170.020 -14.663  1.00 98.20      A16S
ATOM  24816  C3* G   A1177     220.121 169.366 -16.216  1.00 98.20      A16S
ATOM  24817  O3* G   A1177     220.903 170.305 -15.507  1.00 98.20      A16S
ATOM  24818  P   G   A1178     222.276 169.831 -14.837  1.00 82.10      A16S
ATOM  24819  O1P G   A1178     222.833 170.963 -14.059  1.00113.62      A16S
ATOM  24820  O2P G   A1178     223.088 169.203 -15.913  1.00113.62      A16S
ATOM  24821  O5* G   A1178     221.839 168.705 -13.804  1.00 82.10      A16S
ATOM  24822  C5* G   A1178     221.116 169.039 -12.611  1.00 82.10      A16S
ATOM  24823  C4* G   A1178     220.747 167.784 -11.854  1.00 82.10      A16S
ATOM  24824  O4* G   A1178     219.719 167.049 -12.574  1.00 82.10      A16S
ATOM  24825  C1* G   A1178     219.901 165.653 -12.374  1.00 82.10      A16S
ATOM  24826  N9  G   A1178     220.128 165.011 -13.667  1.00113.62      A16S
ATOM  24827  C4  G   A1178     219.966 163.674 -13.951  1.00113.62      A16S
ATOM  24828  N3  G   A1178     219.526 162.728 -13.094  1.00113.62      A16S
ATOM  24829  C2  G   A1178     219.489 161.533 -13.652  1.00113.62      A16S
ATOM  24830  N2  G   A1178     219.065 160.479 -12.943  1.00113.62      A16S
ATOM  24831  N1  G   A1178     219.862 161.282 -14.948  1.00113.62      A16S
ATOM  24832  C6  G   A1178     220.322 162.237 -15.849  1.00113.62      A16S
ATOM  24833  O6  G   A1178     220.638 161.900 -16.996  1.00113.62      A16S
ATOM  24834  C5  G   A1178     220.358 163.528 -15.264  1.00113.62      A16S
ATOM  24835  N7  G   A1178     220.738 164.749 -15.803  1.00113.62      A16S
ATOM  24836  C8  G   A1178     220.577 165.598 -14.826  1.00113.62      A16S
ATOM  24837  C2* G   A1178     221.110 165.472 -11.450  1.00 82.10      A16S
ATOM  24838  O2* G   A1178     220.702 165.316 -10.105  1.00 82.10      A16S
ATOM  24839  C3* G   A1178     221.867 166.772 -11.672  1.00 82.10      A16S
ATOM  24840  O3* G   A1178     222.736 167.068 -10.593  1.00 82.10      A16S
ATOM  24841  P   A   A1179     224.286 166.657 -10.703  1.00 78.53      A16S
ATOM  24842  O1P A   A1179     225.024 167.276  -9.567  1.00 72.08      A16S
ATOM  24843  O2P A   A1179     224.725 166.927 -12.106  1.00 72.08      A16S
ATOM  24844  O5* A   A1179     224.302 165.080 -10.467  1.00 78.53      A16S
ATOM  24845  C5* A   A1179     225.537 164.342 -10.564  1.00 78.53      A16S
ATOM  24846  C4* A   A1179     225.363 162.933 -10.048  1.00 78.53      A16S
ATOM  24847  O4* A   A1179     225.156 162.947  -8.613  1.00 78.53      A16S
ATOM  24848  C1* A   A1179     224.276 161.896  -8.249  1.00 78.53      A16S
ATOM  24849  N9  A   A1179     223.083 162.489  -7.645  1.00 72.08      A16S
ATOM  24850  C4  A   A1179     222.151 161.846  -6.868  1.00 72.08      A16S
ATOM  24851  N3  A   A1179     222.158 160.562  -6.484  1.00 72.08      A16S
ATOM  24852  C2  A   A1179     221.089 160.292  -5.742  1.00 72.08      A16S
ATOM  24853  N1  A   A1179     220.087 161.095  -5.375  1.00 72.08      A16S
ATOM  24854  C6  A   A1179     220.107 162.375  -5.785  1.00 72.08      A16S
ATOM  24855  N6  A   A1179     219.099 163.170  -5.435  1.00 72.08      A16S
ATOM  24856  C5  A   A1179     221.193 162.792  -6.568  1.00 72.08      A16S
ATOM  24857  N7  A   A1179     221.520 164.015  -7.129  1.00 72.08      A16S
ATOM  24858  C8  A   A1179     222.647 163.783  -7.751  1.00 72.08      A16S
ATOM  24859  C2* A   A1179     223.945 161.111  -9.520  1.00 78.53      A16S
ATOM  24860  O2* A   A1179     224.820 160.007  -9.632  1.00 78.53      A16S
ATOM  24861  C3* A   A1179     224.182 162.159 -10.596  1.00 78.53      A16S
ATOM  24862  O3* A   A1179     224.477 161.588 -11.851  1.00 78.53      A16S
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ATOM  24863  P    A   A1180     223.325 161.507 -12.962  1.00 98.63      A16S
ATOM  24864  O1P  A   A1180     223.932 161.047 -14.237  1.00 76.85      A16S
ATOM  24865  O2P  A   A1180     222.566 162.780 -12.933  1.00 76.85      A16S
ATOM  24866  O5*  A   A1180     222.378 160.352 -12.419  1.00 98.63      A16S
ATOM  24867  C5*  A   A1180     222.907 159.047 -12.136  1.00 98.63      A16S
ATOM  24868  C4*  A   A1180     221.978 158.301 -11.217  1.00 98.63      A16S
ATOM  24869  O4*  A   A1180     221.898 159.019  -9.960  1.00 98.63      A16S
ATOM  24870  C1*  A   A1180     220.560 159.028  -9.496  1.00 98.63      A16S
ATOM  24871  N9   A   A1180     220.097 160.418  -9.520  1.00 76.85      A16S
ATOM  24872  C4   A   A1180     219.046 160.962  -8.828  1.00 76.85      A16S
ATOM  24873  N3   A   A1180     218.223 160.339  -7.979  1.00 76.85      A16S
ATOM  24874  C2   A   A1180     217.320 161.186  -7.501  1.00 76.85      A16S
ATOM  24875  N1   A   A1180     217.155 162.482  -7.762  1.00 76.85      A16S
ATOM  24876  C6   A   A1180     217.994 163.075  -8.626  1.00 76.85      A16S
ATOM  24877  N6   A   A1180     217.814 164.365  -8.905  1.00 76.85      A16S
ATOM  24878  C5   A   A1180     219.002 162.292  -9.191  1.00 76.85      A16S
ATOM  24879  N7   A   A1180     220.012 162.589 -10.089  1.00 76.85      A16S
ATOM  24880  C8   A   A1180     220.631 161.449 -10.252  1.00 76.85      A16S
ATOM  24881  C2*  A   A1180     219.756 158.110 -10.421  1.00 98.63      A16S
ATOM  24882  O2*  A   A1180     219.785 156.791  -9.911  1.00 98.63      A16S
ATOM  24883  C3*  A   A1180     220.546 158.213 -11.714  1.00 98.63      A16S
ATOM  24884  O3*  A   A1180     220.358 157.094 -12.568  1.00 98.63      A16S
ATOM  24885  P    G   A1181     219.521 157.270 -13.929  1.00 71.26      A16S
ATOM  24886  O1P  G   A1181     219.489 155.951 -14.597  1.00 86.44      A16S
ATOM  24887  O2P  G   A1181     220.020 158.448 -14.672  1.00 86.44      A16S
ATOM  24888  O5*  G   A1181     218.052 157.604 -13.426  1.00 71.26      A16S
ATOM  24889  C5*  G   A1181     217.314 156.650 -12.656  1.00 71.26      A16S
ATOM  24890  C4*  G   A1181     215.919 156.514 -13.205  1.00 71.26      A16S
ATOM  24891  O4*  G   A1181     215.199 157.755 -12.991  1.00 71.26      A16S
ATOM  24892  C1*  G   A1181     214.652 158.182 -14.213  1.00 71.26      A16S
ATOM  24893  N9   G   A1181     214.436 159.619 -14.157  1.00 86.44      A16S
ATOM  24894  C4   G   A1181     213.393 160.205 -13.511  1.00 86.44      A16S
ATOM  24895  N3   G   A1181     212.421 159.552 -12.851  1.00 86.44      A16S
ATOM  24896  C2   G   A1181     211.547 160.377 -12.323  1.00 86.44      A16S
ATOM  24897  N2   G   A1181     210.494 159.885 -11.657  1.00 86.44      A16S
ATOM  24898  N1   G   A1181     211.634 161.744 -12.417  1.00 86.44      A16S
ATOM  24899  C6   G   A1181     212.637 162.437 -13.082  1.00 86.44      A16S
ATOM  24900  O6   G   A1181     212.634 163.669 -13.083  1.00 86.44      A16S
ATOM  24901  C5   G   A1181     213.568 161.556 -13.677  1.00 86.44      A16S
ATOM  24902  N7   G   A1181     214.699 161.815 -14.433  1.00 86.44      A16S
ATOM  24903  C8   G   A1181     215.185 160.633 -14.696  1.00 86.44      A16S
ATOM  24904  C2*  G   A1181     215.542 157.594 -15.299  1.00 71.26      A16S
ATOM  24905  O2*  G   A1181     214.844 157.570 -16.526  1.00 71.26      A16S
ATOM  24906  C3*  G   A1181     215.823 156.213 -14.702  1.00 71.26      A16S
ATOM  24907  O3*  G   A1181     214.669 155.389 -14.896  1.00 71.26      A16S
ATOM  24908  P    G   A1182     214.809 153.930 -15.549  1.00 95.25      A16S
ATOM  24909  O1P  G   A1182     215.687 153.116 -14.658  1.00 99.18      A16S
ATOM  24910  O2P  G   A1182     215.159 154.088 -16.986  1.00 99.18      A16S
ATOM  24911  O5*  G   A1182     213.320 153.360 -15.478  1.00 95.25      A16S
ATOM  24912  C5*  G   A1182     212.728 152.937 -14.224  1.00 95.25      A16S
ATOM  24913  C4*  G   A1182     211.308 153.453 -14.109  1.00 95.25      A16S
ATOM  24914  O4*  G   A1182     211.369 154.900 -14.047  1.00 95.25      A16S
ATOM  24915  C1*  G   A1182     210.340 155.469 -14.836  1.00 95.25      A16S
ATOM  24916  N9   G   A1182     210.981 156.309 -15.845  1.00 99.18      A16S
ATOM  24917  C4   G   A1182     210.945 157.689 -15.928  1.00 99.18      A16S
ATOM  24918  N3   G   A1182     210.277 158.524 -15.102  1.00 99.18      A16S
ATOM  24919  C2   G   A1182     210.450 159.796 -15.436  1.00 99.18      A16S
ATOM  24920  N2   G   A1182     209.847 160.763 -14.731  1.00 99.18      A16S
ATOM  24921  N1   G   A1182     211.223 160.214 -16.487  1.00 99.18      A16S
ATOM  24922  C6   G   A1182     211.916 159.376 -17.351  1.00 99.18      A16S
ATOM  24923  O6   G   A1182     212.584 159.858 -18.274  1.00 99.18      A16S
ATOM  24924  C5   G   A1182     211.734 158.008 -17.011  1.00 99.18      A16S
ATOM  24925  N7   G   A1182     212.241 156.862 -17.605  1.00 99.18      A16S
ATOM  24926  C8   G   A1182     211.766 155.883 -16.885  1.00 99.18      A16S
ATOM  24927  C2*  G   A1182     209.455 154.335 -15.372  1.00 95.25      A16S
ATOM  24928  O2*  G   A1182     208.269 154.255 -14.615  1.00 95.25      A16S
ATOM  24929  C3*  G   A1182     210.392 153.130 -15.283  1.00 95.25      A16S
ATOM  24930  O3*  G   A1182     209.821 151.795 -15.248  1.00 95.25      A16S
ATOM  24931  P    A   A1183     208.791 151.336 -14.076  1.00101.25      A16S
ATOM  24932  O1P  A   A1183     208.541 149.887 -14.293  1.00105.53      A16S
ATOM  24933  O2P  A   A1183     207.631 152.252 -13.957  1.00105.53      A16S
ATOM  24934  O5*  A   A1183     209.656 151.413 -12.745  1.00101.25      A16S
ATOM  24935  C5*  A   A1183     209.247 152.233 -11.652  1.00101.25      A16S
ATOM  24936  C4*  A   A1183     209.797 151.686 -10.362  1.00101.25      A16S
ATOM  24937  O4*  A   A1183     209.188 150.408 -10.083  1.00101.25      A16S
ATOM  24938  C1*  A   A1183     210.063 149.644  -9.283  1.00101.25      A16S
ATOM  24939  N9   A   A1183     209.998 148.252  -9.717  1.00105.53      A16S
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ATOM  24940  C4  A  A1183     209.546 147.211  -8.944  1.00105.53      A16S
ATOM  24941  N3  A  A1183     209.124 147.268  -7.671  1.00105.53      A16S
ATOM  24942  C2  A  A1183     208.752 146.066  -7.249  1.00105.53      A16S
ATOM  24943  N1  A  A1183     208.751 144.903  -7.904  1.00105.53      A16S
ATOM  24944  C6  A  A1183     209.179 144.882  -9.182  1.00105.53      A16S
ATOM  24945  N6  A  A1183     209.172 143.720  -9.838  1.00105.53      A16S
ATOM  24946  C5  A  A1183     209.604 146.092  -9.747  1.00105.53      A16S
ATOM  24947  N7  A  A1183     210.100 146.414 -11.002  1.00105.53      A16S
ATOM  24948  C8  A  A1183     210.323 147.704 -10.930  1.00105.53      A16S
ATOM  24949  C2* A  A1183     211.436 150.322  -9.251  1.00101.25      A16S
ATOM  24950  O2* A  A1183     211.650 150.780  -7.931  1.00101.25      A16S
ATOM  24951  C3* A  A1183     211.294 151.416 -10.326  1.00101.25      A16S
ATOM  24952  O3* A  A1183     211.966 152.682 -10.120  1.00101.25      A16S
ATOM  24953  P   G  A1184     213.210 152.818  -9.098  1.00 70.01      A16S
ATOM  24954  O1P G  A1184     213.832 151.485  -8.850  1.00 82.57      A16S
ATOM  24955  O2P G  A1184     212.714 153.621  -7.941  1.00 82.57      A16S
ATOM  24956  O5* G  A1184     214.278 153.702  -9.890  1.00 70.01      A16S
ATOM  24957  C5* G  A1184     214.964 153.195 -11.056  1.00 70.01      A16S
ATOM  24958  C4* G  A1184     216.407 152.862 -10.725  1.00 70.01      A16S
ATOM  24959  O4* G  A1184     216.946 153.918  -9.882  1.00 70.01      A16S
ATOM  24960  C1* G  A1184     217.894 153.380  -8.972  1.00 70.01      A16S
ATOM  24961  N9  G  A1184     217.453 153.652  -7.605  1.00 82.57      A16S
ATOM  24962  C4  G  A1184     218.230 153.589  -6.475  1.00 82.57      A16S
ATOM  24963  N3  G  A1184     219.538 153.279  -6.434  1.00 82.57      A16S
ATOM  24964  C2  G  A1184     220.009 153.296  -5.204  1.00 82.57      A16S
ATOM  24965  N2  G  A1184     221.291 153.003  -4.984  1.00 82.57      A16S
ATOM  24966  N1  G  A1184     219.260 153.597  -4.099  1.00 82.57      A16S
ATOM  24967  C6  G  A1184     217.910 153.919  -4.115  1.00 82.57      A16S
ATOM  24968  O6  G  A1184     217.326 154.178  -3.057  1.00 82.57      A16S
ATOM  24969  C5  G  A1184     217.388 153.900  -5.432  1.00 82.57      A16S
ATOM  24970  N7  G  A1184     216.106 154.159  -5.893  1.00 82.57      A16S
ATOM  24971  C8  G  A1184     216.192 154.004  -7.186  1.00 82.57      A16S
ATOM  24972  C2* G  A1184     218.002 151.881  -9.246  1.00 70.01      A16S
ATOM  24973  O2* G  A1184     219.122 151.614 -10.070  1.00 70.01      A16S
ATOM  24974  C3* G  A1184     216.664 151.595  -9.918  1.00 70.01      A16S
ATOM  24975  O3* G  A1184     216.721 150.410 -10.703  1.00 70.01      A16S
ATOM  24976  P   G  A1185     216.553 148.980  -9.980  1.00 72.63      A16S
ATOM  24977  O1P G  A1185     216.588 147.951 -11.047  1.00 90.48      A16S
ATOM  24978  O2P G  A1185     215.391 149.044  -9.057  1.00 90.48      A16S
ATOM  24979  O5* G  A1185     217.866 148.816  -9.096  1.00 72.63      A16S
ATOM  24980  C5* G  A1185     219.101 148.437  -9.709  1.00 72.63      A16S
ATOM  24981  C4* G  A1185     220.103 148.022  -8.667  1.00 72.63      A16S
ATOM  24982  O4* G  A1185     220.583 149.192  -7.962  1.00 72.63      A16S
ATOM  24983  C1* G  A1185     220.819 148.863  -6.600  1.00 72.63      A16S
ATOM  24984  N9  G  A1185     219.862 149.595  -5.773  1.00 90.48      A16S
ATOM  24985  C4  G  A1185     219.856 149.642  -4.404  1.00 90.48      A16S
ATOM  24986  N3  G  A1185     220.756 149.058  -3.596  1.00 90.48      A16S
ATOM  24987  C2  G  A1185     220.473 149.247  -2.326  1.00 90.48      A16S
ATOM  24988  N2  G  A1185     221.269 148.726  -1.392  1.00 90.48      A16S
ATOM  24989  N1  G  A1185     219.391 149.954  -1.879  1.00 90.48      A16S
ATOM  24990  C6  G  A1185     218.445 150.562  -2.692  1.00 90.48      A16S
ATOM  24991  O6  G  A1185     217.489 151.163  -2.182  1.00 90.48      A16S
ATOM  24992  C5  G  A1185     218.742 150.372  -4.065  1.00 90.48      A16S
ATOM  24993  N7  G  A1185     218.073 150.807  -5.201  1.00 90.48      A16S
ATOM  24994  C8  G  A1185     218.776 150.329  -6.190  1.00 90.48      A16S
ATOM  24995  C2* G  A1185     220.581 147.360  -6.448  1.00 72.63      A16S
ATOM  24996  O2* G  A1185     221.790 146.644  -6.613  1.00 72.63      A16S
ATOM  24997  C3* G  A1185     219.589 147.104  -7.570  1.00 72.63      A16S
ATOM  24998  O3* G  A1185     219.514 145.735  -7.939  1.00 72.63      A16S
ATOM  24999  P   G  A1186     218.314 144.830  -7.361  1.00 59.06      A16S
ATOM  25000  O1P G  A1186     218.223 143.597  -8.184  1.00 76.78      A16S
ATOM  25001  O2P G  A1186     217.121 145.708  -7.225  1.00 76.78      A16S
ATOM  25002  O5* G  A1186     218.831 144.402  -5.917  1.00 59.06      A16S
ATOM  25003  C5* G  A1186     220.038 143.640  -5.777  1.00 59.06      A16S
ATOM  25004  C4* G  A1186     220.460 143.591  -4.333  1.00 59.06      A16S
ATOM  25005  O4* G  A1186     220.684 144.943  -3.858  1.00 59.06      A16S
ATOM  25006  C1* G  A1186     220.244 145.068  -2.511  1.00 59.06      A16S
ATOM  25007  N9  G  A1186     219.139 146.026  -2.483  1.00 76.78      A16S
ATOM  25008  C4  G  A1186     218.491 146.514  -1.368  1.00 76.78      A16S
ATOM  25009  N3  G  A1186     218.773 146.208  -0.081  1.00 76.78      A16S
ATOM  25010  C2  G  A1186     217.957 146.821   0.762  1.00 76.78      A16S
ATOM  25011  N2  G  A1186     218.089 146.628   2.075  1.00 76.78      A16S
ATOM  25012  N1  G  A1186     216.948 147.666   0.379  1.00 76.78      A16S
ATOM  25013  C6  G  A1186     216.640 147.998  -0.937  1.00 76.78      A16S
ATOM  25014  O6  G  A1186     215.701 148.773  -1.180  1.00 76.78      A16S
ATOM  25015  C5  G  A1186     217.508 147.348  -1.855  1.00 76.78      A16S
ATOM  25016  N7  G  A1186     217.547 147.401  -3.242  1.00 76.78      A16S
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ATOM  25017  C8  G  A1186     218.527 146.607  -3.569  1.00 76.78      A16S
ATOM  25018  C2* G  A1186     219.808 143.679  -2.053  1.00 59.06      A16S
ATOM  25019  O2* G  A1186     220.890 143.029  -1.415  1.00 59.06      A16S
ATOM  25020  C3* G  A1186     219.425 143.038  -3.378  1.00 59.06      A16S
ATOM  25021  O3* G  A1186     219.429 141.632  -3.323  1.00 59.06      A16S
ATOM  25022  P   G  A1187     218.206 140.889  -2.605  1.00 55.09      A16S
ATOM  25023  O1P G  A1187     218.328 139.421  -2.797  1.00 59.05      A16S
ATOM  25024  O2P G  A1187     216.962 141.591  -3.035  1.00 59.05      A16S
ATOM  25025  O5* G  A1187     218.472 141.195  -1.070  1.00 55.09      A16S
ATOM  25026  C5* G  A1187     217.510 140.842  -0.090  1.00 55.09      A16S
ATOM  25027  C4* G  A1187     217.776 141.578   1.191  1.00 55.09      A16S
ATOM  25028  O4* G  A1187     217.776 143.009   0.968  1.00 55.09      A16S
ATOM  25029  C1* G  A1187     217.156 143.661   2.060  1.00 55.09      A16S
ATOM  25030  N9  G  A1187     216.028 144.442   1.554  1.00 59.05      A16S
ATOM  25031  C4  G  A1187     215.095 145.116   2.305  1.00 59.05      A16S
ATOM  25032  N3  G  A1187     215.032 145.145   3.652  1.00 59.05      A16S
ATOM  25033  C2  G  A1187     214.029 145.897   4.084  1.00 59.05      A16S
ATOM  25034  N2  G  A1187     213.808 146.025   5.400  1.00 59.05      A16S
ATOM  25035  N1  G  A1187     213.165 146.576   3.261  1.00 59.05      A16S
ATOM  25036  C6  G  A1187     213.212 146.567   1.876  1.00 59.05      A16S
ATOM  25037  O6  G  A1187     212.392 147.230   1.234  1.00 59.05      A16S
ATOM  25038  C5  G  A1187     214.275 145.747   1.393  1.00 59.05      A16S
ATOM  25039  N7  G  A1187     214.667 145.453   0.096  1.00 59.05      A16S
ATOM  25040  C8  G  A1187     215.704 144.674   0.240  1.00 59.05      A16S
ATOM  25041  C2* G  A1187     216.777 142.591   3.087  1.00 55.09      A16S
ATOM  25042  O2* G  A1187     217.808 142.467   4.043  1.00 55.09      A16S
ATOM  25043  C3* G  A1187     216.691 141.352   2.216  1.00 55.09      A16S
ATOM  25044  O3* G  A1187     216.938 140.151   2.912  1.00 55.09      A16S
ATOM  25045  P   A  A1188     215.765 139.075   3.031  1.00 61.26      A16S
ATOM  25046  O1P A  A1188     216.294 137.802   3.577  1.00 47.46      A16S
ATOM  25047  O2P A  A1188     215.016 139.077   1.741  1.00 47.46      A16S
ATOM  25048  O5* A  A1188     214.821 139.708   4.137  1.00 61.26      A16S
ATOM  25049  C5* A  A1188     215.317 139.961   5.449  1.00 61.26      A16S
ATOM  25050  C4* A  A1188     214.376 140.876   6.173  1.00 61.26      A16S
ATOM  25051  O4* A  A1188     214.365 142.172   5.540  1.00 61.26      A16S
ATOM  25052  C1* A  A1188     213.084 142.739   5.657  1.00 61.26      A16S
ATOM  25053  N9  A  A1188     212.621 143.064   4.321  1.00 47.46      A16S
ATOM  25054  C4  A  A1188     211.572 143.883   3.998  1.00 47.46      A16S
ATOM  25055  N3  A  A1188     210.778 144.556   4.841  1.00 47.46      A16S
ATOM  25056  C2  A  A1188     209.864 145.244   4.165  1.00 47.46      A16S
ATOM  25057  N1  A  A1188     209.666 145.321   2.846  1.00 47.46      A16S
ATOM  25058  C6  A  A1188     210.483 144.620   2.035  1.00 47.46      A16S
ATOM  25059  N6  A  A1188     210.281 144.666   0.719  1.00 47.46      A16S
ATOM  25060  C5  A  A1188     211.495 143.871   2.623  1.00 47.46      A16S
ATOM  25061  N7  A  A1188     212.491 143.076   2.082  1.00 47.46      A16S
ATOM  25062  C8  A  A1188     213.129 142.619   3.130  1.00 47.46      A16S
ATOM  25063  C2* A  A1188     212.188 141.734   6.375  1.00 61.26      A16S
ATOM  25064  O2* A  A1188     212.170 142.049   7.748  1.00 61.26      A16S
ATOM  25065  C3* A  A1188     212.933 140.435   6.152  1.00 61.26      A16S
ATOM  25066  O3* A  A1188     212.713 139.535   7.210  1.00 61.26      A16S
ATOM  25067  P   C  A1189     211.852 138.219   6.947  1.00 49.15      A16S
ATOM  25068  O1P C  A1189     211.534 137.678   8.287  1.00 67.73      A16S
ATOM  25069  O2P C  A1189     212.578 137.373   5.973  1.00 67.73      A16S
ATOM  25070  O5* C  A1189     210.526 138.790   6.271  1.00 49.15      A16S
ATOM  25071  C5* C  A1189     209.655 139.617   7.042  1.00 49.15      A16S
ATOM  25072  C4* C  A1189     208.576 140.238   6.190  1.00 49.15      A16S
ATOM  25073  O4* C  A1189     209.145 141.147   5.225  1.00 49.15      A16S
ATOM  25074  C1* C  A1189     208.246 141.289   4.145  1.00 49.15      A16S
ATOM  25075  N1  C  A1189     208.920 140.914   2.898  1.00 67.73      A16S
ATOM  25076  C6  C  A1189     210.005 140.082   2.894  1.00 67.73      A16S
ATOM  25077  C2  C  A1189     208.414 141.424   1.697  1.00 67.73      A16S
ATOM  25078  O2  C  A1189     207.409 142.172   1.727  1.00 67.73      A16S
ATOM  25079  N3  C  A1189     209.012 141.090   0.539  1.00 67.73      A16S
ATOM  25080  C4  C  A1189     210.063 140.274   0.543  1.00 67.73      A16S
ATOM  25081  N4  C  A1189     210.607 139.966  -0.635  1.00 67.73      A16S
ATOM  25082  C5  C  A1189     210.600 139.737   1.751  1.00 67.73      A16S
ATOM  25083  C2* C  A1189     207.051 140.378   4.409  1.00 49.15      A16S
ATOM  25084  O2* C  A1189     206.034 141.146   5.024  1.00 49.15      A16S
ATOM  25085  C3* C  A1189     207.647 139.358   5.366  1.00 49.15      A16S
ATOM  25086  O3* C  A1189     206.618 138.774   6.145  1.00 49.15      A16S
ATOM  25087  P   G  A1190     206.551 137.184   6.292  1.00 60.51      A16S
ATOM  25088  O1P G  A1190     205.569 136.911   7.370  1.00 77.41      A16S
ATOM  25089  O2P G  A1190     207.929 136.640   6.400  1.00 77.41      A16S
ATOM  25090  O5* G  A1190     205.936 136.707   4.910  1.00 60.51      A16S
ATOM  25091  C5* G  A1190     204.569 136.970   4.597  1.00 60.51      A16S
ATOM  25092  C4* G  A1190     204.142 136.152   3.406  1.00 60.51      A16S
ATOM  25093  O4* G  A1190     205.163 136.302   2.393  1.00 60.51      A16S
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ATOM  25094  C1* G  A1190     205.293 135.102   1.662  1.00 60.51      A16S
ATOM  25095  N9  G  A1190     206.666 134.631   1.809  1.00 77.41      A16S
ATOM  25096  C4  G  A1190     207.397 133.922   0.887  1.00 77.41      A16S
ATOM  25097  N3  G  A1190     206.962 133.505  -0.320  1.00 77.41      A16S
ATOM  25098  C2  G  A1190     207.898 132.845  -0.982  1.00 77.41      A16S
ATOM  25099  N2  G  A1190     207.636 132.347  -2.196  1.00 77.41      A16S
ATOM  25100  N1  G  A1190     209.164 132.619  -0.502  1.00 77.41      A16S
ATOM  25101  C6  G  A1190     209.641 133.044   0.734  1.00 77.41      A16S
ATOM  25102  O6  G  A1190     210.817 132.791   1.067  1.00 77.41      A16S
ATOM  25103  C5  G  A1190     208.638 133.748   1.461  1.00 77.41      A16S
ATOM  25104  N7  G  A1190     208.681 134.324   2.722  1.00 77.41      A16S
ATOM  25105  C8  G  A1190     207.490 134.828   2.887  1.00 77.41      A16S
ATOM  25106  C2* G  A1190     204.219 134.138   2.163  1.00 60.51      A16S
ATOM  25107  O2* G  A1190     203.082 134.356   1.352  1.00 60.51      A16S
ATOM  25108  C3* G  A1190     203.969 134.643   3.577  1.00 60.51      A16S
ATOM  25109  O3* G  A1190     202.646 134.390   4.107  1.00 60.51      A16S
ATOM  25110  P   A  A1191     201.654 133.285   3.445  1.00 37.81      A16S
ATOM  25111  O1P A  A1191     202.422 132.294   2.662  1.00 76.51      A16S
ATOM  25112  O2P A  A1191     200.759 132.799   4.521  1.00 76.51      A16S
ATOM  25113  O5* A  A1191     200.734 134.144   2.468  1.00 37.81      A16S
ATOM  25114  C5* A  A1191     200.120 135.354   2.947  1.00 37.81      A16S
ATOM  25115  C4* A  A1191     198.733 135.533   2.362  1.00 37.81      A16S
ATOM  25116  O4* A  A1191     198.832 135.842   0.951  1.00 37.81      A16S
ATOM  25117  C1* A  A1191     197.798 135.192   0.251  1.00 37.81      A16S
ATOM  25118  N9  A  A1191     198.438 134.285  -0.707  1.00 76.51      A16S
ATOM  25119  C4  A  A1191     197.900 133.748  -1.853  1.00 76.51      A16S
ATOM  25120  N3  A  A1191     196.654 133.912  -2.330  1.00 76.51      A16S
ATOM  25121  C2  A  A1191     196.501 133.255  -3.470  1.00 76.51      A16S
ATOM  25122  N1  A  A1191     197.383 132.514  -4.141  1.00 76.51      A16S
ATOM  25123  C6  A  A1191     198.625 132.369  -3.636  1.00 76.51      A16S
ATOM  25124  N6  A  A1191     199.511 131.636  -4.310  1.00 76.51      A16S
ATOM  25125  C5  A  A1191     198.913 133.005  -2.431  1.00 76.51      A16S
ATOM  25126  N7  A  A1191     200.061 133.049  -1.656  1.00 76.51      A16S
ATOM  25127  C8  A  A1191     199.730 133.813  -0.647  1.00 76.51      A16S
ATOM  25128  C2* A  A1191     196.870 134.520   1.281  1.00 37.81      A16S
ATOM  25129  O2* A  A1191     195.756 135.353   1.534  1.00 37.81      A16S
ATOM  25130  C3* A  A1191     197.787 134.349   2.493  1.00 37.81      A16S
ATOM  25131  O3* A  A1191     197.065 134.473   3.724  1.00 37.81      A16S
ATOM  25132  P   C  A1192     196.527 133.168   4.497  1.00 47.66      A16S
ATOM  25133  O1P C  A1192     195.854 133.655   5.729  1.00 84.00      A16S
ATOM  25134  O2P C  A1192     197.611 132.158   4.613  1.00 84.00      A16S
ATOM  25135  O5* C  A1192     195.392 132.601   3.540  1.00 47.66      A16S
ATOM  25136  C5* C  A1192     194.040 133.090   3.626  1.00 47.66      A16S
ATOM  25137  C4* C  A1192     193.099 132.149   2.913  1.00 47.66      A16S
ATOM  25138  O4* C  A1192     193.333 132.243   1.486  1.00 47.66      A16S
ATOM  25139  C1* C  A1192     193.251 130.950   0.908  1.00 47.66      A16S
ATOM  25140  N1  C  A1192     194.566 130.619   0.311  1.00 84.00      A16S
ATOM  25141  C6  C  A1192     195.704 130.646   1.068  1.00 84.00      A16S
ATOM  25142  C2  C  A1192     194.632 130.257  -1.034  1.00 84.00      A16S
ATOM  25143  O2  C  A1192     193.599 130.283  -1.718  1.00 84.00      A16S
ATOM  25144  N3  C  A1192     195.822 129.894  -1.558  1.00 84.00      A16S
ATOM  25145  C4  C  A1192     196.918 129.901  -0.798  1.00 84.00      A16S
ATOM  25146  N4  C  A1192     198.066 129.508  -1.346  1.00 84.00      A16S
ATOM  25147  C5  C  A1192     196.886 130.301   0.556  1.00 84.00      A16S
ATOM  25148  C2* C  A1192     192.843 129.964   2.009  1.00 47.66      A16S
ATOM  25149  O2* C  A1192     191.453 129.743   2.019  1.00 47.66      A16S
ATOM  25150  C3* C  A1192     193.304 130.685   3.261  1.00 47.66      A16S
ATOM  25151  O3* C  A1192     192.528 130.292   4.371  1.00 47.66      A16S
ATOM  25152  P   G  A1193     192.812 128.878   5.070  1.00 38.60      A16S
ATOM  25153  O1P G  A1193     191.634 128.526   5.898  1.00 75.79      A16S
ATOM  25154  O2P G  A1193     194.159 128.935   5.701  1.00 75.79      A16S
ATOM  25155  O5* G  A1193     192.853 127.870   3.839  1.00 38.60      A16S
ATOM  25156  C5* G  A1193     193.734 126.722   3.853  1.00 38.60      A16S
ATOM  25157  C4* G  A1193     193.977 126.220   2.443  1.00 38.60      A16S
ATOM  25158  O4* G  A1193     194.564 127.267   1.625  1.00 38.60      A16S
ATOM  25159  C1* G  A1193     195.575 126.719   0.804  1.00 38.60      A16S
ATOM  25160  N9  G  A1193     196.859 127.216   1.301  1.00 75.79      A16S
ATOM  25161  C4  G  A1193     198.099 127.033   0.732  1.00 75.79      A16S
ATOM  25162  N3  G  A1193     198.357 126.364  -0.406  1.00 75.79      A16S
ATOM  25163  C2  G  A1193     199.646 126.324  -0.670  1.00 75.79      A16S
ATOM  25164  N2  G  A1193     200.078 125.684  -1.757  1.00 75.79      A16S
ATOM  25165  N1  G  A1193     200.607 126.904   0.112  1.00 75.79      A16S
ATOM  25166  C6  G  A1193     200.364 127.604   1.287  1.00 75.79      A16S
ATOM  25167  O6  G  A1193     201.306 128.094   1.926  1.00 75.79      A16S
ATOM  25168  C5  G  A1193     198.986 127.646   1.587  1.00 75.79      A16S
ATOM  25169  N7  G  A1193     198.324 128.214   2.663  1.00 75.79      A16S
ATOM  25170  C8  G  A1193     197.069 127.937   2.452  1.00 75.79      A16S
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ATOM  25171  C2* G   A1193     195.480 125.197   0.946  1.00 38.60      A16S
ATOM  25172  O2* G   A1193     194.553 124.670   0.022  1.00 38.60      A16S
ATOM  25173  C3* G   A1193     194.947 125.059   2.354  1.00 38.60      A16S
ATOM  25174  O3* G   A1193     194.267 123.837   2.507  1.00 38.60      A16S
ATOM  25175  P    U   A1194     195.033 122.574   3.122  1.00 51.50      A16S
ATOM  25176  O1P U   A1194     194.052 121.466   3.252  1.00 65.06      A16S
ATOM  25177  O2P U   A1194     195.768 123.039   4.320  1.00 65.06      A16S
ATOM  25178  O5* U   A1194     196.087 122.190   1.989  1.00 51.50      A16S
ATOM  25179  C5* U   A1194     195.668 121.978   0.619  1.00 51.50      A16S
ATOM  25180  C4* U   A1194     196.820 121.450  -0.212  1.00 51.50      A16S
ATOM  25181  O4* U   A1194     197.769 122.505  -0.510  1.00 51.50      A16S
ATOM  25182  C1* U   A1194     199.080 121.970  -0.527  1.00 51.50      A16S
ATOM  25183  N1   U   A1194     199.917 122.757   0.393  1.00 65.06      A16S
ATOM  25184  C6   U   A1194     199.420 123.227   1.581  1.00 65.06      A16S
ATOM  25185  C2   U   A1194     201.221 123.025   0.021  1.00 65.06      A16S
ATOM  25186  O2   U   A1194     201.721 122.607  -1.017  1.00 65.06      A16S
ATOM  25187  N3   U   A1194     201.925 123.798   0.908  1.00 65.06      A16S
ATOM  25188  C4   U   A1194     201.475 124.311   2.096  1.00 65.06      A16S
ATOM  25189  O4   U   A1194     202.197 125.061   2.740  1.00 65.06      A16S
ATOM  25190  C5   U   A1194     200.137 123.971   2.420  1.00 65.06      A16S
ATOM  25191  C2* U   A1194     198.997 120.471  -0.208  1.00 51.50      A16S
ATOM  25192  O2* U   A1194     199.095 119.709  -1.389  1.00 51.50      A16S
ATOM  25193  C3* U   A1194     197.630 120.355   0.454  1.00 51.50      A16S
ATOM  25194  O3* U   A1194     197.029 119.090   0.223  1.00 51.50      A16S
ATOM  25195  P    C   A1195     197.096 117.961   1.366  1.00 50.55      A16S
ATOM  25196  O1P C   A1195     196.136 116.876   1.028  1.00 66.45      A16S
ATOM  25197  O2P C   A1195     197.014 118.640   2.687  1.00 66.45      A16S
ATOM  25198  O5* C   A1195     198.556 117.357   1.215  1.00 50.55      A16S
ATOM  25199  C5* C   A1195     198.952 116.746  -0.016  1.00 50.55      A16S
ATOM  25200  C4* C   A1195     200.425 116.509  -0.006  1.00 50.55      A16S
ATOM  25201  O4* C   A1195     201.085 117.785   0.057  1.00 50.55      A16S
ATOM  25202  C1* C   A1195     202.206 117.690   0.905  1.00 50.55      A16S
ATOM  25203  N1   C   A1195     202.167 118.823   1.861  1.00 66.45      A16S
ATOM  25204  C6   C   A1195     200.999 119.492   2.106  1.00 66.45      A16S
ATOM  25205  C2   C   A1195     203.356 119.238   2.481  1.00 66.45      A16S
ATOM  25206  O2   C   A1195     204.397 118.589   2.291  1.00 66.45      A16S
ATOM  25207  N3   C   A1195     203.337 120.335   3.276  1.00 66.45      A16S
ATOM  25208  C4   C   A1195     202.200 120.998   3.471  1.00 66.45      A16S
ATOM  25209  N4   C   A1195     202.236 122.084   4.232  1.00 66.45      A16S
ATOM  25210  C5   C   A1195     200.974 120.578   2.889  1.00 66.45      A16S
ATOM  25211  C2* C   A1195     202.304 116.250   1.433  1.00 50.55      A16S
ATOM  25212  O2* C   A1195     203.283 115.558   0.682  1.00 50.55      A16S
ATOM  25213  C3* C   A1195     200.891 115.721   1.200  1.00 50.55      A16S
ATOM  25214  O3* C   A1195     200.801 114.348   0.816  1.00 50.55      A16S
ATOM  25215  P    U   A1196     201.306 113.181   1.794  1.00 69.40      A16S
ATOM  25216  O1P U   A1196     202.564 113.608   2.434  1.00116.13      A16S
ATOM  25217  O2P U   A1196     201.287 111.941   0.984  1.00116.13      A16S
ATOM  25218  O5* U   A1196     200.187 113.025   2.923  1.00 69.40      A16S
ATOM  25219  C5* U   A1196     199.487 114.173   3.451  1.00 69.40      A16S
ATOM  25220  C4* U   A1196     199.338 114.082   4.960  1.00 69.40      A16S
ATOM  25221  O4* U   A1196     198.200 113.266   5.359  1.00 69.40      A16S
ATOM  25222  C1* U   A1196     198.562 112.521   6.500  1.00 69.40      A16S
ATOM  25223  N1   U   A1196     197.680 111.348   6.629  1.00116.13      A16S
ATOM  25224  C6   U   A1196     198.048 110.110   6.152  1.00116.13      A16S
ATOM  25225  C2   U   A1196     196.463 111.527   7.273  1.00116.13      A16S
ATOM  25226  O2   U   A1196     196.080 112.604   7.692  1.00116.13      A16S
ATOM  25227  N3   U   A1196     195.707 110.393   7.406  1.00116.13      A16S
ATOM  25228  C4   U   A1196     196.027 109.126   6.967  1.00116.13      A16S
ATOM  25229  O4   U   A1196     195.258 108.193   7.201  1.00116.13      A16S
ATOM  25230  C5   U   A1196     197.285 109.026   6.297  1.00116.13      A16S
ATOM  25231  C2* U   A1196     200.053 112.245   6.320  1.00 69.40      A16S
ATOM  25232  O2* U   A1196     200.647 111.895   7.553  1.00 69.40      A16S
ATOM  25233  C3* U   A1196     200.535 113.585   5.766  1.00 69.40      A16S
ATOM  25234  O3* U   A1196     200.771 114.463   6.849  1.00 69.40      A16S
ATOM  25235  P    G   A1197     202.275 114.811   7.262  1.00 47.46      A16S
ATOM  25236  O1P G   A1197     203.010 113.534   7.466  1.00 61.01      A16S
ATOM  25237  O2P G   A1197     202.203 115.812   8.359  1.00 61.01      A16S
ATOM  25238  O5* G   A1197     202.863 115.511   5.965  1.00 47.46      A16S
ATOM  25239  C5* G   A1197     203.461 114.724   4.923  1.00 47.46      A16S
ATOM  25240  C4* G   A1197     204.851 115.226   4.631  1.00 47.46      A16S
ATOM  25241  O4* G   A1197     204.770 116.583   4.138  1.00 47.46      A16S
ATOM  25242  C1* G   A1197     205.788 117.363   4.717  1.00 47.46      A16S
ATOM  25243  N9   G   A1197     205.136 118.416   5.490  1.00 61.01      A16S
ATOM  25244  C4   G   A1197     205.739 119.460   6.163  1.00 61.01      A16S
ATOM  25245  N3   G   A1197     207.065 119.691   6.258  1.00 61.01      A16S
ATOM  25246  C2   G   A1197     207.325 120.774   6.962  1.00 61.01      A16S
ATOM  25247  N2   G   A1197     208.583 121.145   7.171  1.00 61.01      A16S
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ATOM  25248  N1  G  A1197     206.370 121.571   7.517  1.00 61.01      A16S
ATOM  25249  C6  G  A1197     205.000 121.356   7.432  1.00 61.01      A16S
ATOM  25250  O6  G  A1197     204.215 122.147   7.968  1.00 61.01      A16S
ATOM  25251  C5  G  A1197     204.703 120.193   6.694  1.00 61.01      A16S
ATOM  25252  N7  G  A1197     203.479 119.619   6.382  1.00 61.01      A16S
ATOM  25253  C8  G  A1197     203.783 118.570   5.673  1.00 61.01      A16S
ATOM  25254  C2* G  A1197     206.687 116.427   5.528  1.00 47.46      A16S
ATOM  25255  O2* G  A1197     207.743 116.005   4.699  1.00 47.46      A16S
ATOM  25256  C3* G  A1197     205.747 115.278   5.853  1.00 47.46      A16S
ATOM  25257  O3* G  A1197     206.438 114.037   5.992  1.00 47.46      A16S
ATOM  25258  P   G  A1198     206.805 113.492   7.455  1.00 40.85      A16S
ATOM  25259  O1P G  A1198     207.685 112.287   7.389  1.00 61.26      A16S
ATOM  25260  O2P G  A1198     205.522 113.422   8.192  1.00 61.26      A16S
ATOM  25261  O5* G  A1198     207.684 114.673   8.051  1.00 40.85      A16S
ATOM  25262  C5* G  A1198     208.978 114.971   7.493  1.00 40.85      A16S
ATOM  25263  C4* G  A1198     209.739 115.926   8.381  1.00 40.85      A16S
ATOM  25264  O4* G  A1198     209.402 117.307   8.107  1.00 40.85      A16S
ATOM  25265  C1* G  A1198     209.567 118.064   9.288  1.00 40.85      A16S
ATOM  25266  N9  G  A1198     208.325 118.771   9.580  1.00 61.26      A16S
ATOM  25267  C4  G  A1198     208.209 119.887  10.370  1.00 61.26      A16S
ATOM  25268  N3  G  A1198     209.222 120.539  10.965  1.00 61.26      A16S
ATOM  25269  C2  G  A1198     208.799 121.562  11.682  1.00 61.26      A16S
ATOM  25270  N2  G  A1198     209.683 122.333  12.324  1.00 61.26      A16S
ATOM  25271  N1  G  A1198     207.485 121.909  11.822  1.00 61.26      A16S
ATOM  25272  C6  G  A1198     206.422 121.250  11.235  1.00 61.26      A16S
ATOM  25273  O6  G  A1198     205.273 121.636  11.455  1.00 61.26      A16S
ATOM  25274  C5  G  A1198     206.863 120.155  10.433  1.00 61.26      A16S
ATOM  25275  N7  G  A1198     206.145 119.247   9.662  1.00 61.26      A16S
ATOM  25276  C8  G  A1198     207.054 118.451   9.171  1.00 61.26      A16S
ATOM  25277  C2* G  A1198     209.981 117.102  10.408  1.00 40.85      A16S
ATOM  25278  O2* G  A1198     211.383 117.116  10.529  1.00 40.85      A16S
ATOM  25279  C3* G  A1198     209.520 115.765   9.867  1.00 40.85      A16S
ATOM  25280  O3* G  A1198     210.298 114.700  10.349  1.00 40.85      A16S
ATOM  25281  P   U  A1199     209.749 113.814  11.565  1.00 45.58      A16S
ATOM  25282  O1P U  A1199     210.471 112.511  11.579  1.00 48.32      A16S
ATOM  25283  O2P U  A1199     208.254 113.828  11.528  1.00 48.32      A16S
ATOM  25284  O5* U  A1199     210.217 114.633  12.845  1.00 45.58      A16S
ATOM  25285  C5* U  A1199     211.612 114.867  13.114  1.00 45.58      A16S
ATOM  25286  C4* U  A1199     211.759 115.934  14.173  1.00 45.58      A16S
ATOM  25287  O4* U  A1199     211.174 117.164  13.688  1.00 45.58      A16S
ATOM  25288  C1* U  A1199     210.551 117.839  14.748  1.00 45.58      A16S
ATOM  25289  N1  U  A1199     209.165 118.092  14.359  1.00 48.32      A16S
ATOM  25290  C6  U  A1199     208.376 117.119  13.812  1.00 48.32      A16S
ATOM  25291  C2  U  A1199     208.691 119.350  14.567  1.00 48.32      A16S
ATOM  25292  O2  U  A1199     209.377 120.230  15.057  1.00 48.32      A16S
ATOM  25293  N3  U  A1199     207.387 119.550  14.188  1.00 48.32      A16S
ATOM  25294  C4  U  A1199     206.536 118.624  13.640  1.00 48.32      A16S
ATOM  25295  O4  U  A1199     205.385 118.951  13.356  1.00 48.32      A16S
ATOM  25296  C5  U  A1199     207.111 117.334  13.456  1.00 48.32      A16S
ATOM  25297  C2* U  A1199     210.721 117.015  16.026  1.00 45.58      A16S
ATOM  25298  O2* U  A1199     211.774 117.536  16.806  1.00 45.58      A16S
ATOM  25299  C3* U  A1199     211.041 115.637  15.475  1.00 45.58      A16S
ATOM  25300  O3* U  A1199     211.920 114.948  16.329  1.00 45.58      A16S
ATOM  25301  P   C  A1200     211.385 113.715  17.171  1.00 91.11      A16S
ATOM  25302  O1P C  A1200     212.556 113.036  17.760  1.00 59.57      A16S
ATOM  25303  O2P C  A1200     210.457 112.944  16.335  1.00 59.57      A16S
ATOM  25304  O5* C  A1200     210.549 114.423  18.318  1.00 91.11      A16S
ATOM  25305  C5* C  A1200     210.318 113.757  19.564  1.00 91.11      A16S
ATOM  25306  C4* C  A1200     209.395 114.571  20.425  1.00 91.11      A16S
ATOM  25307  O4* C  A1200     208.159 114.805  19.712  1.00 91.11      A16S
ATOM  25308  C1* C  A1200     207.093 114.860  20.635  1.00 91.11      A16S
ATOM  25309  N1  C  A1200     205.995 113.986  20.184  1.00 59.57      A16S
ATOM  25310  C6  C  A1200     206.222 112.935  19.349  1.00 59.57      A16S
ATOM  25311  C2  C  A1200     204.695 114.270  20.615  1.00 59.57      A16S
ATOM  25312  O2  C  A1200     204.512 115.205  21.403  1.00 59.57      A16S
ATOM  25313  N3  C  A1200     203.670 113.524  20.170  1.00 59.57      A16S
ATOM  25314  C4  C  A1200     203.899 112.520  19.339  1.00 59.57      A16S
ATOM  25315  N4  C  A1200     202.852 111.825  18.915  1.00 59.57      A16S
ATOM  25316  C5  C  A1200     205.210 112.186  18.904  1.00 59.57      A16S
ATOM  25317  C2* C  A1200     207.650 114.579  22.032  1.00 91.11      A16S
ATOM  25318  O2* C  A1200     207.855 115.821  22.689  1.00 91.11      A16S
ATOM  25319  C3* C  A1200     208.977 113.898  21.720  1.00 91.11      A16S
ATOM  25320  O3* C  A1200     209.900 114.208  22.755  1.00 91.11      A16S
ATOM  25321  P   A  A1201     211.140 113.237  23.053  1.00 50.71      A16S
ATOM  25322  O1P A  A1201     210.882 111.910  22.428  1.00 66.24      A16S
ATOM  25323  O2P A  A1201     211.373 113.314  24.521  1.00 66.24      A16S
ATOM  25324  O5* A  A1201     212.349 113.963  22.297  1.00 50.71      A16S
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ATOM  25325  C5* A   A1201     212.598 115.374  22.515  1.00 50.71      A16S
ATOM  25326  C4* A   A1201     213.604 115.937  21.521  1.00 50.71      A16S
ATOM  25327  O4* A   A1201     214.927 115.416  21.781  1.00 50.71      A16S
ATOM  25328  C1* A   A1201     215.508 114.922  20.593  1.00 50.71      A16S
ATOM  25329  N9  A   A1201     216.054 113.602  20.901  1.00 66.24      A16S
ATOM  25330  C4  A   A1201     217.287 113.084  20.577  1.00 66.24      A16S
ATOM  25331  N3  A   A1201     218.281 113.686  19.902  1.00 66.24      A16S
ATOM  25332  C2  A   A1201     219.324 112.862  19.773  1.00 66.24      A16S
ATOM  25333  N1  A   A1201     219.469 111.600  20.207  1.00 66.24      A16S
ATOM  25334  C6  A   A1201     218.444 111.028  20.877  1.00 66.24      A16S
ATOM  25335  N6  A   A1201     218.566 109.768  21.296  1.00 66.24      A16S
ATOM  25336  C5  A   A1201     217.296 111.793  21.086  1.00 66.24      A16S
ATOM  25337  N7  A   A1201     216.102 111.506  21.722  1.00 66.24      A16S
ATOM  25338  C8  A   A1201     215.402 112.606  21.586  1.00 66.24      A16S
ATOM  25339  C2* A   A1201     214.398 114.774  19.560  1.00 50.71      A16S
ATOM  25340  O2* A   A1201     214.878 114.996  18.249  1.00 50.71      A16S
ATOM  25341  C3* A   A1201     213.336 115.763  20.036  1.00 50.71      A16S
ATOM  25342  O3* A   A1201     213.105 116.990  19.316  1.00 50.71      A16S
ATOM  25343  P   G   A1202     214.267 118.083  19.153  1.00 52.91      A16S
ATOM  25344  O1P G   A1202     213.687 119.174  18.336  1.00 56.88      A16S
ATOM  25345  O2P G   A1202     215.547 117.451  18.729  1.00 56.88      A16S
ATOM  25346  O5* G   A1202     214.403 118.667  20.623  1.00 52.91      A16S
ATOM  25347  C5* G   A1202     215.686 118.883  21.217  1.00 52.91      A16S
ATOM  25348  C4* G   A1202     215.646 120.095  22.111  1.00 52.91      A16S
ATOM  25349  O4* G   A1202     215.575 121.301  21.308  1.00 52.91      A16S
ATOM  25350  C1* G   A1202     214.818 122.278  21.990  1.00 52.91      A16S
ATOM  25351  N9  G   A1202     213.681 122.657  21.155  1.00 56.88      A16S
ATOM  25352  C4  G   A1202     212.923 123.800  21.287  1.00 56.88      A16S
ATOM  25353  N3  G   A1202     213.093 124.756  22.220  1.00 56.88      A16S
ATOM  25354  C2  G   A1202     212.214 125.733  22.098  1.00 56.88      A16S
ATOM  25355  N2  G   A1202     212.240 126.758  22.966  1.00 56.88      A16S
ATOM  25356  N1  G   A1202     211.248 125.776  21.125  1.00 56.88      A16S
ATOM  25357  C6  G   A1202     211.049 124.803  20.153  1.00 56.88      A16S
ATOM  25358  O6  G   A1202     210.139 124.942  19.325  1.00 56.88      A16S
ATOM  25359  C5  G   A1202     211.984 123.738  20.282  1.00 56.88      A16S
ATOM  25360  N7  G   A1202     212.137 122.575  19.539  1.00 56.88      A16S
ATOM  25361  C8  G   A1202     213.154 121.967  20.092  1.00 56.88      A16S
ATOM  25362  C2* G   A1202     214.393 121.681  23.332  1.00 52.91      A16S
ATOM  25363  O2* G   A1202     215.341 122.044  24.311  1.00 52.91      A16S
ATOM  25364  C3* G   A1202     214.451 120.188  23.045  1.00 52.91      A16S
ATOM  25365  O3* G   A1202     214.604 119.396  24.226  1.00 52.91      A16S
ATOM  25366  P   C   A1203     213.301 118.722  24.904  1.00 71.77      A16S
ATOM  25367  O1P C   A1203     213.704 117.942  26.119  1.00 78.65      A16S
ATOM  25368  O2P C   A1203     212.527 118.044  23.839  1.00 78.65      A16S
ATOM  25369  O5* C   A1203     212.428 119.981  25.340  1.00 71.77      A16S
ATOM  25370  C5* C   A1203     213.012 121.069  26.071  1.00 71.77      A16S
ATOM  25371  C4* C   A1203     212.083 122.255  26.064  1.00 71.77      A16S
ATOM  25372  O4* C   A1203     212.030 122.839  24.738  1.00 71.77      A16S
ATOM  25373  C1* C   A1203     210.710 123.292  24.463  1.00 71.77      A16S
ATOM  25374  N1  C   A1203     210.178 122.489  23.342  1.00 78.65      A16S
ATOM  25375  C6  C   A1203     210.619 121.209  23.135  1.00 78.65      A16S
ATOM  25376  C2  C   A1203     209.194 123.039  22.505  1.00 78.65      A16S
ATOM  25377  O2  C   A1203     208.824 124.208  22.689  1.00 78.65      A16S
ATOM  25378  N3  C   A1203     208.671 122.277  21.520  1.00 78.65      A16S
ATOM  25379  C4  C   A1203     209.093 121.021  21.350  1.00 78.65      A16S
ATOM  25380  N4  C   A1203     208.531 120.295  20.384  1.00 78.65      A16S
ATOM  25381  C5  C   A1203     210.105 120.449  22.166  1.00 78.65      A16S
ATOM  25382  C2* C   A1203     209.879 123.071  25.730  1.00 71.77      A16S
ATOM  25383  O2* C   A1203     209.829 124.239  26.529  1.00 71.77      A16S
ATOM  25384  C3* C   A1203     210.640 121.928  26.382  1.00 71.77      A16S
ATOM  25385  O3* C   A1203     210.398 121.793  27.761  1.00 71.77      A16S
ATOM  25386  P   A   A1204     209.324 120.715  28.256  1.00 68.47      A16S
ATOM  25387  O1P A   A1204     209.185 120.886  29.718  1.00 79.11      A16S
ATOM  25388  O2P A   A1204     209.686 119.375  27.710  1.00 79.11      A16S
ATOM  25389  O5* A   A1204     207.985 121.246  27.577  1.00 68.47      A16S
ATOM  25390  C5* A   A1204     207.492 122.567  27.875  1.00 68.47      A16S
ATOM  25391  C4* A   A1204     206.121 122.755  27.282  1.00 68.47      A16S
ATOM  25392  O4* A   A1204     206.233 122.812  25.840  1.00 68.47      A16S
ATOM  25393  C1* A   A1204     205.119 122.164  25.248  1.00 68.47      A16S
ATOM  25394  N9  A   A1204     205.608 121.040  24.442  1.00 79.11      A16S
ATOM  25395  C4  A   A1204     204.952 120.463  23.381  1.00 79.11      A16S
ATOM  25396  N3  A   A1204     203.755 120.803  22.881  1.00 79.11      A16S
ATOM  25397  C2  A   A1204     203.436 120.022  21.863  1.00 79.11      A16S
ATOM  25398  N1  A   A1204     204.125 119.025  21.315  1.00 79.11      A16S
ATOM  25399  C6  A   A1204     205.327 118.710  21.833  1.00 79.11      A16S
ATOM  25400  N6  A   A1204     206.021 117.719  21.275  1.00 79.11      A16S
ATOM  25401  C5  A   A1204     205.777 119.452  22.931  1.00 79.11      A16S
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ATOM  25402  N7  A   A1204     206.936 119.383  23.694  1.00 79.11      A16S
ATOM  25403  C8  A   A1204     206.788 120.344  24.573  1.00 79.11      A16S
ATOM  25404  C2* A   A1204     204.186 121.715  26.375  1.00 68.47      A16S
ATOM  25405  O2* A   A1204     203.170 122.672  26.583  1.00 68.47      A16S
ATOM  25406  C3* A   A1204     205.148 121.618  27.548  1.00 68.47      A16S
ATOM  25407  O3* A   A1204     204.488 121.744  28.796  1.00 68.47      A16S
ATOM  25408  P   U   A1205     203.921 120.429  29.528  1.00 70.65      A16S
ATOM  25409  O1P U   A1205     203.176 120.903  30.725  1.00 75.87      A16S
ATOM  25410  O2P U   A1205     205.009 119.422  29.689  1.00 75.87      A16S
ATOM  25411  O5* U   A1205     202.870 119.846  28.483  1.00 70.65      A16S
ATOM  25412  C5* U   A1205     201.607 120.495  28.266  1.00 70.65      A16S
ATOM  25413  C4* U   A1205     200.780 119.713  27.280  1.00 70.65      A16S
ATOM  25414  O4* U   A1205     201.416 119.783  25.985  1.00 70.65      A16S
ATOM  25415  C1* U   A1205     201.188 118.577  25.277  1.00 70.65      A16S
ATOM  25416  N1  U   A1205     202.478 117.929  25.005  1.00 75.87      A16S
ATOM  25417  C6  U   A1205     203.529 118.043  25.875  1.00 75.87      A16S
ATOM  25418  C2  U   A1205     202.587 117.164  23.858  1.00 75.87      A16S
ATOM  25419  O2  U   A1205     201.702 117.074  23.023  1.00 75.87      A16S
ATOM  25420  N3  U   A1205     203.774 116.508  23.717  1.00 75.87      A16S
ATOM  25421  C4  U   A1205     204.845 116.546  24.571  1.00 75.87      A16S
ATOM  25422  O4  U   A1205     205.791 115.781  24.379  1.00 75.87      A16S
ATOM  25423  C5  U   A1205     204.675 117.400  25.703  1.00 75.87      A16S
ATOM  25424  C2* U   A1205     200.316 117.682  26.154  1.00 70.65      A16S
ATOM  25425  O2* U   A1205     198.955 117.837  25.803  1.00 70.65      A16S
ATOM  25426  C3* U   A1205     200.623 118.222  27.540  1.00 70.65      A16S
ATOM  25427  O3* U   A1205     199.579 117.908  28.451  1.00 70.65      A16S
ATOM  25428  P   G   A1206     199.379 116.383  28.934  1.00 83.56      A16S
ATOM  25429  O1P G   A1206     198.678 116.414  30.246  1.00 82.51      A16S
ATOM  25430  O2P G   A1206     200.679 115.672  28.812  1.00 82.51      A16S
ATOM  25431  O5* G   A1206     198.398 115.765  27.840  1.00 83.56      A16S
ATOM  25432  C5* G   A1206     197.003 116.146  27.776  1.00 83.56      A16S
ATOM  25433  C4* G   A1206     196.234 115.153  26.936  1.00 83.56      A16S
ATOM  25434  O4* G   A1206     196.603 115.323  25.545  1.00 83.56      A16S
ATOM  25435  C1* G   A1206     196.720 114.052  24.920  1.00 83.56      A16S
ATOM  25436  N9  G   A1206     198.121 113.863  24.534  1.00 82.51      A16S
ATOM  25437  C4  G   A1206     198.658 112.823  23.802  1.00 82.51      A16S
ATOM  25438  N3  G   A1206     197.977 111.800  23.250  1.00 82.51      A16S
ATOM  25439  C2  G   A1206     198.782 110.941  22.639  1.00 82.51      A16S
ATOM  25440  N2  G   A1206     198.272 109.865  22.025  1.00 82.51      A16S
ATOM  25441  N1  G   A1206     200.142 111.073  22.582  1.00 82.51      A16S
ATOM  25442  C6  G   A1206     200.865 112.117  23.143  1.00 82.51      A16S
ATOM  25443  O6  G   A1206     202.100 112.137  23.046  1.00 82.51      A16S
ATOM  25444  C5  G   A1206     200.015 113.049  23.791  1.00 82.51      A16S
ATOM  25445  N7  G   A1206     200.325 114.224  24.459  1.00 82.51      A16S
ATOM  25446  C8  G   A1206     199.175 114.675  24.873  1.00 82.51      A16S
ATOM  25447  C2* G   A1206     196.247 113.003  25.931  1.00 83.56      A16S
ATOM  25448  O2* G   A1206     194.863 112.773  25.774  1.00 83.56      A16S
ATOM  25449  C3* G   A1206     196.537 113.694  27.251  1.00 83.56      A16S
ATOM  25450  O3* G   A1206     195.720 113.190  28.300  1.00 83.56      A16S
ATOM  25451  P   G   A1207     196.291 112.047  29.279  1.00 70.93      A16S
ATOM  25452  O1P G   A1207     195.213 111.719  30.239  1.00 75.93      A16S
ATOM  25453  O2P G   A1207     197.608 112.493  29.789  1.00 75.93      A16S
ATOM  25454  O5* G   A1207     196.509 110.787  28.328  1.00 70.93      A16S
ATOM  25455  C5* G   A1207     195.395 110.184  27.628  1.00 70.93      A16S
ATOM  25456  C4* G   A1207     195.874 109.080  26.705  1.00 70.93      A16S
ATOM  25457  O4* G   A1207     196.679 109.650  25.637  1.00 70.93      A16S
ATOM  25458  C1* G   A1207     197.720 108.745  25.287  1.00 70.93      A16S
ATOM  25459  N9  G   A1207     199.016 109.408  25.454  1.00 75.93      A16S
ATOM  25460  C4  G   A1207     200.217 108.971  24.940  1.00 75.93      A16S
ATOM  25461  N3  G   A1207     200.403 107.859  24.203  1.00 75.93      A16S
ATOM  25462  C2  G   A1207     201.660 107.705  23.850  1.00 75.93      A16S
ATOM  25463  N2  G   A1207     202.016 106.642  23.126  1.00 75.93      A16S
ATOM  25464  N1  G   A1207     202.661 108.581  24.182  1.00 75.93      A16S
ATOM  25465  C6  G   A1207     202.497 109.739  24.932  1.00 75.93      A16S
ATOM  25466  O6  G   A1207     203.470 110.474  25.153  1.00 75.93      A16S
ATOM  25467  C5  G   A1207     201.148 109.907  25.337  1.00 75.93      A16S
ATOM  25468  N7  G   A1207     200.551 110.906  26.096  1.00 75.93      A16S
ATOM  25469  C8  G   A1207     199.289 110.570  26.140  1.00 75.93      A16S
ATOM  25470  C2* G   A1207     197.580 107.496  26.160  1.00 70.93      A16S
ATOM  25471  O2* G   A1207     196.938 106.457  25.451  1.00 70.93      A16S
ATOM  25472  C3* G   A1207     196.775 108.029  27.340  1.00 70.93      A16S
ATOM  25473  O3* G   A1207     196.072 106.999  28.018  1.00 70.93      A16S
ATOM  25474  P   C   A1208     196.819 106.174  29.177  1.00 69.16      A16S
ATOM  25475  O1P C   A1208     195.811 105.282  29.804  1.00 82.55      A16S
ATOM  25476  O2P C   A1208     197.603 107.115  30.027  1.00 82.55      A16S
ATOM  25477  O5* C   A1208     197.852 105.258  28.392  1.00 69.16      A16S
ATOM  25478  C5* C   A1208     197.388 104.229  27.513  1.00 69.16      A16S
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ATOM  25479  C4* C   A1208     198.556 103.549  26.861  1.00 69.16      A16S
ATOM  25480  O4* C   A1208     199.267 104.514  26.045  1.00 69.16      A16S
ATOM  25481  C1* C   A1208     200.652 104.222  26.063  1.00 69.16      A16S
ATOM  25482  N1   C   A1208     201.389 105.385  26.585  1.00 82.55      A16S
ATOM  25483  C6   C   A1208     200.742 106.471  27.100  1.00 82.55      A16S
ATOM  25484  C2   C   A1208     202.783 105.348  26.554  1.00 82.55      A16S
ATOM  25485  O2   C   A1208     203.345 104.360  26.057  1.00 82.55      A16S
ATOM  25486  N3   C   A1208     203.484 106.381  27.060  1.00 82.55      A16S
ATOM  25487  C4   C   A1208     202.847 107.426  27.575  1.00 82.55      A16S
ATOM  25488  N4   C   A1208     203.588 108.415  28.080  1.00 82.55      A16S
ATOM  25489  C5   C   A1208     201.424 107.504  27.600  1.00 82.55      A16S
ATOM  25490  C2* C   A1208     200.858 102.984  26.935  1.00 69.16      A16S
ATOM  25491  O2* C   A1208     200.928 101.840  26.111  1.00 69.16      A16S
ATOM  25492  C3* C   A1208     199.614 103.016  27.811  1.00 69.16      A16S
ATOM  25493  O3* C   A1208     199.284 101.742  28.345  1.00 69.16      A16S
ATOM  25494  P    C   A1209     199.686 101.396  29.862  1.00100.84      A16S
ATOM  25495  O1P C   A1209     199.091 100.074  30.184  1.00 81.07      A16S
ATOM  25496  O2P C   A1209     199.362 102.580  30.707  1.00 81.07      A16S
ATOM  25497  O5* C   A1209     201.268 101.217  29.814  1.00100.84      A16S
ATOM  25498  C5* C   A1209     201.842 100.133  29.067  1.00100.84      A16S
ATOM  25499  C4* C   A1209     203.320 100.350  28.846  1.00100.84      A16S
ATOM  25500  O4* C   A1209     203.544 101.601  28.147  1.00100.84      A16S
ATOM  25501  C1* C   A1209     204.803 102.131  28.518  1.00100.84      A16S
ATOM  25502  N1   C   A1209     204.609 103.457  29.114  1.00 81.07      A16S
ATOM  25503  C6   C   A1209     203.370 103.895  29.480  1.00 81.07      A16S
ATOM  25504  C2   C   A1209     205.734 104.268  29.320  1.00 81.07      A16S
ATOM  25505  O2   C   A1209     206.854 103.857  28.944  1.00 81.07      A16S
ATOM  25506  N3   C   A1209     205.579 105.475  29.915  1.00 81.07      A16S
ATOM  25507  C4   C   A1209     204.364 105.886  30.281  1.00 81.07      A16S
ATOM  25508  N4   C   A1209     204.258 107.081  30.869  1.00 81.07      A16S
ATOM  25509  C5   C   A1209     203.203 105.091  30.061  1.00 81.07      A16S
ATOM  25510  C2* C   A1209     205.429 101.176  29.530  1.00100.84      A16S
ATOM  25511  O2* C   A1209     206.331 100.310  28.870  1.00100.84      A16S
ATOM  25512  C3* C   A1209     204.202 100.460  30.075  1.00100.84      A16S
ATOM  25513  O3* C   A1209     204.540  99.201  30.629  1.00100.84      A16S
ATOM  25514  P    C   A1210     205.159  99.141  32.109  1.00 85.16      A16S
ATOM  25515  O1P C   A1210     205.297  97.710  32.490  1.00 67.38      A16S
ATOM  25516  O2P C   A1210     204.387 100.070  32.984  1.00 67.38      A16S
ATOM  25517  O5* C   A1210     206.610  99.764  31.926  1.00 85.16      A16S
ATOM  25518  C5* C   A1210     207.724  98.948  31.544  1.00 85.16      A16S
ATOM  25519  C4* C   A1210     208.963  99.439  32.237  1.00 85.16      A16S
ATOM  25520  O4* C   A1210     209.241 100.790  31.798  1.00 85.16      A16S
ATOM  25521  C1* C   A1210     209.690 101.570  32.888  1.00 85.16      A16S
ATOM  25522  N1   C   A1210     208.740 102.675  33.074  1.00 67.38      A16S
ATOM  25523  C6   C   A1210     207.453 102.575  32.619  1.00 67.38      A16S
ATOM  25524  C2   C   A1210     209.176 103.843  33.709  1.00 67.38      A16S
ATOM  25525  O2   C   A1210     210.337 103.895  34.151  1.00 67.38      A16S
ATOM  25526  N3   C   A1210     208.320 104.882  33.833  1.00 67.38      A16S
ATOM  25527  C4   C   A1210     207.072 104.778  33.367  1.00 67.38      A16S
ATOM  25528  N4   C   A1210     206.266 105.832  33.498  1.00 67.38      A16S
ATOM  25529  C5   C   A1210     206.595 103.590  32.743  1.00 67.38      A16S
ATOM  25530  C2* C   A1210     209.812 100.652  34.098  1.00 85.16      A16S
ATOM  25531  O2* C   A1210     211.144 100.196  34.151  1.00 85.16      A16S
ATOM  25532  C3* C   A1210     208.821  99.551  33.741  1.00 85.16      A16S
ATOM  25533  O3* C   A1210     209.092  98.305  34.361  1.00 85.16      A16S
ATOM  25534  P    U   A1211     208.718  98.098  35.903  1.00 87.20      A16S
ATOM  25535  O1P U   A1211     208.720  96.633  36.139  1.00 92.71      A16S
ATOM  25536  O2P U   A1211     207.499  98.897  36.208  1.00 92.71      A16S
ATOM  25537  O5* U   A1211     209.955  98.754  36.661  1.00 87.20      A16S
ATOM  25538  C5* U   A1211     209.860  99.129  38.034  1.00 87.20      A16S
ATOM  25539  C4* U   A1211     210.339 100.543  38.218  1.00 87.20      A16S
ATOM  25540  O4* U   A1211     209.596 101.430  37.354  1.00 87.20      A16S
ATOM  25541  C1* U   A1211     209.635 102.728  37.910  1.00 87.20      A16S
ATOM  25542  N1   U   A1211     208.404 103.470  37.583  1.00 92.71      A16S
ATOM  25543  C6   U   A1211     207.341 102.881  36.922  1.00 92.71      A16S
ATOM  25544  C2   U   A1211     208.353 104.814  37.955  1.00 92.71      A16S
ATOM  25545  O2   U   A1211     209.263 105.377  38.551  1.00 92.71      A16S
ATOM  25546  N3   U   A1211     207.198 105.473  37.607  1.00 92.71      A16S
ATOM  25547  C4   U   A1211     206.104 104.948  36.944  1.00 92.71      A16S
ATOM  25548  O4   U   A1211     205.119 105.667  36.741  1.00 92.71      A16S
ATOM  25549  C5   U   A1211     206.225 103.556  36.596  1.00 92.71      A16S
ATOM  25550  C2* U   A1211     209.983 102.611  39.400  1.00 87.20      A16S
ATOM  25551  O2* U   A1211     211.154 103.349  39.688  1.00 87.20      A16S
ATOM  25552  C3* U   A1211     210.095 101.094  39.612  1.00 87.20      A16S
ATOM  25553  O3* U   A1211     211.203 100.771  40.458  1.00 87.20      A16S
ATOM  25554  P    U   A1212     211.150  99.469  41.401  1.00142.20      A16S
ATOM  25555  O1P U   A1212     209.726  99.180  41.711  1.00201.30      A16S
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ATOM  25556  O2P U   A1212     212.112  99.694  42.510  1.00201.30      A16S
ATOM  25557  O5* U   A1212     211.694  98.293  40.474  1.00142.20      A16S
ATOM  25558  C5* U   A1212     212.677  97.354  40.954  1.00142.20      A16S
ATOM  25559  C4* U   A1212     214.061  97.920  40.753  1.00142.20      A16S
ATOM  25560  O4* U   A1212     214.435  98.727  41.901  1.00142.20      A16S
ATOM  25561  C1* U   A1212     215.843  98.717  42.042  1.00142.20      A16S
ATOM  25562  N1   U   A1212     216.204  98.433  43.442  1.00201.30      A16S
ATOM  25563  C6   U   A1212     216.588  97.171  43.848  1.00201.30      A16S
ATOM  25564  C2   U   A1212     216.173  99.488  44.342  1.00201.30      A16S
ATOM  25565  O2   U   A1212     215.812 100.616  44.040  1.00201.30      A16S
ATOM  25566  N3   U   A1212     216.583  99.175  45.614  1.00201.30      A16S
ATOM  25567  C4   U   A1212     217.004  97.945  46.073  1.00201.30      A16S
ATOM  25568  O4   U   A1212     217.405  97.839  47.232  1.00201.30      A16S
ATOM  25569  C5   U   A1212     216.979  96.902  45.095  1.00201.30      A16S
ATOM  25570  C2* U   A1212     216.422  97.749  41.007  1.00142.20      A16S
ATOM  25571  O2* U   A1212     216.954  98.503  39.939  1.00142.20      A16S
ATOM  25572  C3* U   A1212     215.197  96.921  40.618  1.00142.20      A16S
ATOM  25573  O3* U   A1212     215.247  96.442  39.272  1.00142.20      A16S
ATOM  25574  P    A   A1213     216.562  95.694  38.725  1.00163.46      A16S
ATOM  25575  O1P A   A1213     216.105  94.730  37.690  1.00 73.98      A16S
ATOM  25576  O2P A   A1213     217.334  95.201  39.895  1.00 73.98      A16S
ATOM  25577  O5* A   A1213     217.404  96.869  38.043  1.00163.46      A16S
ATOM  25578  C5* A   A1213     217.236  97.236  36.647  1.00163.46      A16S
ATOM  25579  C4* A   A1213     215.944  98.002  36.447  1.00163.46      A16S
ATOM  25580  O4* A   A1213     215.729  98.926  37.531  1.00163.46      A16S
ATOM  25581  C1* A   A1213     214.805  99.897  37.106  1.00163.46      A16S
ATOM  25582  N9   A   A1213     215.023 101.149  37.834  1.00 73.98      A16S
ATOM  25583  C4   A   A1213     214.253 102.285  37.755  1.00 73.98      A16S
ATOM  25584  N3   A   A1213     213.212 102.509  36.936  1.00 73.98      A16S
ATOM  25585  C2   A   A1213     212.685 103.712  37.167  1.00 73.98      A16S
ATOM  25586  N1   A   A1213     213.047 104.642  38.063  1.00 73.98      A16S
ATOM  25587  C6   A   A1213     214.092 104.383  38.874  1.00 73.98      A16S
ATOM  25588  N6   A   A1213     214.438 105.300  39.777  1.00 73.98      A16S
ATOM  25589  C5   A   A1213     214.748 103.147  38.719  1.00 73.98      A16S
ATOM  25590  N7   A   A1213     215.841 102.586  39.360  1.00 73.98      A16S
ATOM  25591  C8   A   A1213     215.973 101.413  38.790  1.00 73.98      A16S
ATOM  25592  C2* A   A1213     214.766  99.903  35.575  1.00163.46      A16S
ATOM  25593  O2* A   A1213     213.473  99.490  35.187  1.00163.46      A16S
ATOM  25594  C3* A   A1213     215.838  98.871  35.200  1.00163.46      A16S
ATOM  25595  O3* A   A1213     215.382  98.078  34.102  1.00163.46      A16S
ATOM  25596  P    C   A1214     215.883  98.397  32.606  1.00 89.61      A16S
ATOM  25597  O1P C   A1214     215.076  97.538  31.704  1.00 81.64      A16S
ATOM  25598  O2P C   A1214     217.367  98.286  32.590  1.00 81.64      A16S
ATOM  25599  O5* C   A1214     215.450  99.914  32.341  1.00 89.61      A16S
ATOM  25600  C5* C   A1214     216.312 100.829  31.617  1.00 89.61      A16S
ATOM  25601  C4* C   A1214     215.495 101.908  30.941  1.00 89.61      A16S
ATOM  25602  O4* C   A1214     214.637 101.300  29.955  1.00 89.61      A16S
ATOM  25603  C1* C   A1214     213.493 102.105  29.781  1.00 89.61      A16S
ATOM  25604  N1   C   A1214     212.310 101.251  29.555  1.00 81.64      A16S
ATOM  25605  C6   C   A1214     212.418  99.889  29.574  1.00 81.64      A16S
ATOM  25606  C2   C   A1214     211.064 101.859  29.272  1.00 81.64      A16S
ATOM  25607  O2   C   A1214     210.963 103.096  29.312  1.00 81.64      A16S
ATOM  25608  N3   C   A1214     210.004 101.080  28.967  1.00 81.64      A16S
ATOM  25609  C4   C   A1214     210.135  99.753  28.956  1.00 81.64      A16S
ATOM  25610  N4   C   A1214     209.063  99.025  28.626  1.00 81.64      A16S
ATOM  25611  C5   C   A1214     211.370  99.109  29.280  1.00 81.64      A16S
ATOM  25612  C2* C   A1214     213.433 103.138  30.910  1.00 89.61      A16S
ATOM  25613  O2* C   A1214     213.642 104.435  30.374  1.00 89.61      A16S
ATOM  25614  C3* C   A1214     214.544 102.671  31.853  1.00 89.61      A16S
ATOM  25615  O3* C   A1214     215.120 103.828  32.483  1.00 89.61      A16S
ATOM  25616  P    G   A1215     216.471 104.514  31.906  1.00 90.93      A16S
ATOM  25617  O1P G   A1215     216.236 104.884  30.481  1.00 73.22      A16S
ATOM  25618  O2P G   A1215     217.637 103.673  32.266  1.00 73.22      A16S
ATOM  25619  O5* G   A1215     216.575 105.877  32.734  1.00 90.93      A16S
ATOM  25620  C5* G   A1215     215.476 106.835  32.740  1.00 90.93      A16S
ATOM  25621  C4* G   A1215     215.239 107.382  34.140  1.00 90.93      A16S
ATOM  25622  O4* G   A1215     214.779 106.326  35.019  1.00 90.93      A16S
ATOM  25623  C1* G   A1215     215.343 106.491  36.309  1.00 90.93      A16S
ATOM  25624  N9   G   A1215     216.180 105.325  36.587  1.00 73.22      A16S
ATOM  25625  C4   G   A1215     217.084 105.180  37.614  1.00 73.22      A16S
ATOM  25626  N3   G   A1215     217.366 106.099  38.557  1.00 73.22      A16S
ATOM  25627  C2   G   A1215     218.250 105.650  39.432  1.00 73.22      A16S
ATOM  25628  N2   G   A1215     218.629 106.428  40.456  1.00 73.22      A16S
ATOM  25629  N1   G   A1215     218.824 104.405  39.372  1.00 73.22      A16S
ATOM  25630  C6   G   A1215     218.551 103.446  38.404  1.00 73.22      A16S
ATOM  25631  O6   G   A1215     219.122 102.351  38.439  1.00 73.22      A16S
ATOM  25632  C5   G   A1215     217.597 103.908  37.471  1.00 73.22      A16S
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ATOM  25633  N7  G  A1215     217.036 103.268  36.378  1.00 73.22      A16S
ATOM  25634  C8  G  A1215     216.210 104.146  35.880  1.00 73.22      A16S
ATOM  25635  C2* G  A1215     216.114 107.809  36.310  1.00 90.93      A16S
ATOM  25636  O2* G  A1215     215.269 108.839  36.782  1.00 90.93      A16S
ATOM  25637  C3* G  A1215     216.459 107.957  34.836  1.00 90.93      A16S
ATOM  25638  O3* G  A1215     216.668 109.306  34.468  1.00 90.93      A16S
ATOM  25639  P   G  A1216     218.129 109.778  34.015  1.00 84.39      A16S
ATOM  25640  O1P G  A1216     218.014 111.227  33.691  1.00 84.04      A16S
ATOM  25641  O2P G  A1216     218.623 108.823  32.989  1.00 84.04      A16S
ATOM  25642  O5* G  A1216     219.015 109.591  35.325  1.00 84.39      A16S
ATOM  25643  C5* G  A1216     218.765 110.389  36.495  1.00 84.39      A16S
ATOM  25644  C4* G  A1216     219.775 110.087  37.578  1.00 84.39      A16S
ATOM  25645  O4* G  A1216     219.502 108.805  38.189  1.00 84.39      A16S
ATOM  25646  C1* G  A1216     220.719 108.208  38.588  1.00 84.39      A16S
ATOM  25647  N9  G  A1216     220.823 106.901  37.955  1.00 84.04      A16S
ATOM  25648  C4  G  A1216     221.667 105.882  38.324  1.00 84.04      A16S
ATOM  25649  N3  G  A1216     222.573 105.924  39.324  1.00 84.04      A16S
ATOM  25650  C2  G  A1216     223.229 104.781  39.445  1.00 84.04      A16S
ATOM  25651  N2  G  A1216     224.177 104.653  40.386  1.00 84.04      A16S
ATOM  25652  N1  G  A1216     223.007 103.683  38.651  1.00 84.04      A16S
ATOM  25653  C6  G  A1216     222.076 103.618  37.615  1.00 84.04      A16S
ATOM  25654  O6  G  A1216     221.947 102.572  36.958  1.00 84.04      A16S
ATOM  25655  C5  G  A1216     221.375 104.841  37.471  1.00 84.04      A16S
ATOM  25656  N7  G  A1216     220.383 105.205  36.571  1.00 84.04      A16S
ATOM  25657  C8  G  A1216     220.090 106.435  36.892  1.00 84.04      A16S
ATOM  25658  C2* G  A1216     221.862 109.154  38.228  1.00 84.39      A16S
ATOM  25659  O2* G  A1216     222.191 109.868  39.399  1.00 84.39      A16S
ATOM  25660  C3* G  A1216     221.226 110.018  37.140  1.00 84.39      A16S
ATOM  25661  O3* G  A1216     221.777 111.332  37.062  1.00 84.39      A16S
ATOM  25662  P   C  A1217     223.087 111.599  36.171  1.00 73.13      A16S
ATOM  25663  O1P C  A1217     223.233 113.078  36.097  1.00 77.10      A16S
ATOM  25664  O2P C  A1217     222.997 110.801  34.924  1.00 77.10      A16S
ATOM  25665  O5* C  A1217     224.279 111.006  37.050  1.00 73.13      A16S
ATOM  25666  C5* C  A1217     224.583 111.576  38.340  1.00 73.13      A16S
ATOM  25667  C4* C  A1217     225.638 110.768  39.066  1.00 73.13      A16S
ATOM  25668  O4* C  A1217     225.140 109.449  39.412  1.00 73.13      A16S
ATOM  25669  C1* C  A1217     226.227 108.542  39.497  1.00 73.13      A16S
ATOM  25670  N1  C  A1217     225.974 107.380  38.629  1.00 77.10      A16S
ATOM  25671  C6  C  A1217     225.068 107.444  37.607  1.00 77.10      A16S
ATOM  25672  C2  C  A1217     226.696 106.198  38.861  1.00 77.10      A16S
ATOM  25673  O2  C  A1217     227.501 106.157  39.805  1.00 77.10      A16S
ATOM  25674  N3  C  A1217     226.500 105.135  38.053  1.00 77.10      A16S
ATOM  25675  C4  C  A1217     225.626 105.213  37.050  1.00 77.10      A16S
ATOM  25676  N4  C  A1217     225.474 104.139  36.267  1.00 77.10      A16S
ATOM  25677  C5  C  A1217     224.866 106.395  36.799  1.00 77.10      A16S
ATOM  25678  C2* C  A1217     227.497 109.295  39.106  1.00 73.13      A16S
ATOM  25679  O2* C  A1217     228.168 109.654  40.296  1.00 73.13      A16S
ATOM  25680  C3* C  A1217     226.935 110.487  38.334  1.00 73.13      A16S
ATOM  25681  O3* C  A1217     227.802 111.611  38.358  1.00 73.13      A16S
ATOM  25682  P   C  A1218     228.778 111.883  37.106  1.00 70.83      A16S
ATOM  25683  O1P C  A1218     229.524 113.149  37.379  1.00 76.03      A16S
ATOM  25684  O2P C  A1218     227.970 111.757  35.859  1.00 76.03      A16S
ATOM  25685  O5* C  A1218     229.808 110.669  37.150  1.00 70.83      A16S
ATOM  25686  C5* C  A1218     230.615 110.465  38.306  1.00 70.83      A16S
ATOM  25687  C4* C  A1218     231.424 109.213  38.168  1.00 70.83      A16S
ATOM  25688  O4* C  A1218     230.563 108.056  38.112  1.00 70.83      A16S
ATOM  25689  C1* C  A1218     231.260 107.004  37.482  1.00 70.83      A16S
ATOM  25690  N1  C  A1218     230.359 106.307  36.556  1.00 76.03      A16S
ATOM  25691  C6  C  A1218     229.318 106.958  35.954  1.00 76.03      A16S
ATOM  25692  C2  C  A1218     230.590 104.953  36.295  1.00 76.03      A16S
ATOM  25693  O2  C  A1218     231.534 104.386  36.861  1.00 76.03      A16S
ATOM  25694  N3  C  A1218     229.780 104.296  35.438  1.00 76.03      A16S
ATOM  25695  C4  C  A1218     228.770 104.939  34.852  1.00 76.03      A16S
ATOM  25696  N4  C  A1218     227.996 104.251  34.010  1.00 76.03      A16S
ATOM  25697  C5  C  A1218     228.506 106.319  35.103  1.00 76.03      A16S
ATOM  25698  C2* C  A1218     232.519 107.587  36.831  1.00 70.83      A16S
ATOM  25699  O2* C  A1218     233.635 107.194  37.594  1.00 70.83      A16S
ATOM  25700  C3* C  A1218     232.263 109.092  36.914  1.00 70.83      A16S
ATOM  25701  O3* C  A1218     233.467 109.832  37.077  1.00 70.83      A16S
ATOM  25702  P   U  A1219     234.344 110.226  35.794  1.00 71.10      A16S
ATOM  25703  O1P U  A1219     235.379 111.185  36.258  1.00 73.28      A16S
ATOM  25704  O2P U  A1219     233.444 110.609  34.676  1.00 73.28      A16S
ATOM  25705  O5* U  A1219     235.060 108.856  35.432  1.00 71.10      A16S
ATOM  25706  C5* U  A1219     236.129 108.357  36.242  1.00 71.10      A16S
ATOM  25707  C4* U  A1219     236.605 107.040  35.701  1.00 71.10      A16S
ATOM  25708  O4* U  A1219     235.545 106.059  35.858  1.00 71.10      A16S
ATOM  25709  C1* U  A1219     235.526 105.181  34.742  1.00 71.10      A16S
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ATOM  25710  N1  U  A1219     234.254 105.364  34.019  1.00 73.28      A16S
ATOM  25711  C6  U  A1219     233.709 106.620  33.818  1.00 73.28      A16S
ATOM  25712  C2  U  A1219     233.626 104.236  33.523  1.00 73.28      A16S
ATOM  25713  O2  U  A1219     234.058 103.112  33.692  1.00 73.28      A16S
ATOM  25714  N3  U  A1219     232.469 104.475  32.820  1.00 73.28      A16S
ATOM  25715  C4  U  A1219     231.882 105.701  32.569  1.00 73.28      A16S
ATOM  25716  O4  U  A1219     230.850 105.755  31.896  1.00 73.28      A16S
ATOM  25717  C5  U  A1219     232.581 106.821  33.127  1.00 73.28      A16S
ATOM  25718  C2* U  A1219     236.707 105.560  33.852  1.00 71.10      A16S
ATOM  25719  O2* U  A1219     237.847 104.780  34.157  1.00 71.10      A16S
ATOM  25720  C3* U  A1219     236.882 107.026  34.209  1.00 71.10      A16S
ATOM  25721  O3* U  A1219     238.131 107.554  33.811  1.00 71.10      A16S
ATOM  25722  P   G  A1220     238.280 108.137  32.325  1.00 79.48      A16S
ATOM  25723  O1P G  A1220     239.672 108.618  32.160  1.00 43.18      A16S
ATOM  25724  O2P G  A1220     237.149 109.072  32.076  1.00 43.18      A16S
ATOM  25725  O5* G  A1220     238.100 106.840  31.421  1.00 79.48      A16S
ATOM  25726  C5* G  A1220     239.072 105.783  31.485  1.00 79.48      A16S
ATOM  25727  C4* G  A1220     238.671 104.626  30.602  1.00 79.48      A16S
ATOM  25728  O4* G  A1220     237.551 103.904  31.185  1.00 79.48      A16S
ATOM  25729  C1* G  A1220     236.737 103.369  30.148  1.00 79.48      A16S
ATOM  25730  N9  G  A1220     235.462 104.081  30.140  1.00 43.18      A16S
ATOM  25731  C4  G  A1220     234.307 103.654  29.541  1.00 43.18      A16S
ATOM  25732  N3  G  A1220     234.142 102.487  28.886  1.00 43.18      A16S
ATOM  25733  C2  G  A1220     232.936 102.384  28.367  1.00 43.18      A16S
ATOM  25734  N2  G  A1220     232.625 101.315  27.634  1.00 43.18      A16S
ATOM  25735  N1  G  A1220     231.954 103.333  28.516  1.00 43.18      A16S
ATOM  25736  C6  G  A1220     232.104 104.539  29.193  1.00 43.18      A16S
ATOM  25737  O6  G  A1220     231.164 105.333  29.264  1.00 43.18      A16S
ATOM  25738  C5  G  A1220     233.401 104.676  29.723  1.00 43.18      A16S
ATOM  25739  N7  G  A1220     233.973 105.723  30.432  1.00 43.18      A16S
ATOM  25740  C8  G  A1220     235.190 105.321  30.670  1.00 43.18      A16S
ATOM  25741  C2* G  A1220     237.426 103.693  28.826  1.00 79.48      A16S
ATOM  25742  O2* G  A1220     238.269 102.633  28.412  1.00 79.48      A16S
ATOM  25743  C3* G  A1220     238.188 104.954  29.199  1.00 79.48      A16S
ATOM  25744  O3* G  A1220     239.191 105.263  28.259  1.00 79.48      A16S
ATOM  25745  P   G  A1221     238.789 106.092  26.947  1.00 65.31      A16S
ATOM  25746  O1P G  A1221     240.072 106.351  26.267  1.00 56.32      A16S
ATOM  25747  O2P G  A1221     237.906 107.242  27.308  1.00 56.32      A16S
ATOM  25748  O5* G  A1221     237.948 105.037  26.090  1.00 65.31      A16S
ATOM  25749  C5* G  A1221     238.562 103.811  25.623  1.00 65.31      A16S
ATOM  25750  C4* G  A1221     237.547 102.916  24.934  1.00 65.31      A16S
ATOM  25751  O4* G  A1221     236.513 102.537  25.881  1.00 65.31      A16S
ATOM  25752  C1* G  A1221     235.248 102.524  25.236  1.00 65.31      A16S
ATOM  25753  N9  G  A1221     234.539 103.732  25.640  1.00 56.32      A16S
ATOM  25754  C4  G  A1221     233.217 104.038  25.406  1.00 56.32      A16S
ATOM  25755  N3  G  A1221     232.323 103.260  24.769  1.00 56.32      A16S
ATOM  25756  C2  G  A1221     231.138 103.842  24.673  1.00 56.32      A16S
ATOM  25757  N2  G  A1221     230.137 103.218  24.040  1.00 56.32      A16S
ATOM  25758  N1  G  A1221     230.845 105.077  25.182  1.00 56.32      A16S
ATOM  25759  C6  G  A1221     231.743 105.893  25.855  1.00 56.32      A16S
ATOM  25760  O6  G  A1221     231.372 106.995  26.296  1.00 56.32      A16S
ATOM  25761  C5  G  A1221     233.032 105.289  25.942  1.00 56.32      A16S
ATOM  25762  N7  G  A1221     234.213 105.765  26.501  1.00 56.32      A16S
ATOM  25763  C8  G  A1221     235.073 104.808  26.305  1.00 56.32      A16S
ATOM  25764  C2* G  A1221     235.520 102.642  23.743  1.00 65.31      A16S
ATOM  25765  O2* G  A1221     235.705 101.365  23.163  1.00 65.31      A16S
ATOM  25766  C3* G  A1221     236.777 103.495  23.754  1.00 65.31      A16S
ATOM  25767  O3* G  A1221     237.450 103.453  22.510  1.00 65.31      A16S
ATOM  25768  P   G  A1222     237.095 104.554  21.399  1.00 62.86      A16S
ATOM  25769  O1P G  A1222     237.842 104.218  20.161  1.00 71.65      A16S
ATOM  25770  O2P G  A1222     237.255 105.893  22.005  1.00 71.65      A16S
ATOM  25771  O5* G  A1222     235.540 104.341  21.134  1.00 62.86      A16S
ATOM  25772  C5* G  A1222     235.028 103.093  20.624  1.00 62.86      A16S
ATOM  25773  C4* G  A1222     233.563 103.238  20.283  1.00 62.86      A16S
ATOM  25774  O4* G  A1222     232.809 103.523  21.491  1.00 62.86      A16S
ATOM  25775  C1* G  A1222     231.733 104.405  21.201  1.00 62.86      A16S
ATOM  25776  N9  G  A1222     231.892 105.628  21.987  1.00 71.65      A16S
ATOM  25777  C4  G  A1222     230.987 106.663  22.082  1.00 71.65      A16S
ATOM  25778  N3  G  A1222     229.793 106.731  21.458  1.00 71.65      A16S
ATOM  25779  C2  G  A1222     229.149 107.850  21.740  1.00 71.65      A16S
ATOM  25780  N2  G  A1222     227.948 108.079  21.191  1.00 71.65      A16S
ATOM  25781  N1  G  A1222     229.634 108.828  22.580  1.00 71.65      A16S
ATOM  25782  C6  G  A1222     230.855 108.778  23.246  1.00 71.65      A16S
ATOM  25783  O6  G  A1222     231.188 109.709  24.010  1.00 71.65      A16S
ATOM  25784  C5  G  A1222     231.567 107.580  22.932  1.00 71.65      A16S
ATOM  25785  N7  G  A1222     232.814 107.139  23.352  1.00 71.65      A16S
ATOM  25786  C8  G  A1222     232.963 105.980  22.769  1.00 71.65      A16S
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ATOM  25787  C2* G   A1222     231.771 104.692  19.704  1.00 62.86      A16S
ATOM  25788  O2* G   A1222     230.874 103.835  19.031  1.00 62.86      A16S
ATOM  25789  C3* G   A1222     233.229 104.408  19.380  1.00 62.86      A16S
ATOM  25790  O3* G   A1222     233.434 104.152  18.016  1.00 62.86      A16S
ATOM  25791  P    C   A1223     233.859 105.364  17.068  1.00 47.06      A16S
ATOM  25792  O1P C   A1223     234.123 104.797  15.731  1.00 71.85      A16S
ATOM  25793  O2P C   A1223     234.927 106.117  17.783  1.00 71.85      A16S
ATOM  25794  O5* C   A1223     232.557 106.279  16.983  1.00 47.06      A16S
ATOM  25795  C5* C   A1223     231.350 105.754  16.436  1.00 47.06      A16S
ATOM  25796  C4* C   A1223     230.237 106.766  16.521  1.00 47.06      A16S
ATOM  25797  O4* C   A1223     229.991 107.127  17.902  1.00 47.06      A16S
ATOM  25798  C1* C   A1223     229.402 108.413  17.943  1.00 47.06      A16S
ATOM  25799  N1   C   A1223     230.124 109.272  18.892  1.00 71.85      A16S
ATOM  25800  C6   C   A1223     231.378 108.955  19.331  1.00 71.85      A16S
ATOM  25801  C2   C   A1223     229.493 110.448  19.341  1.00 71.85      A16S
ATOM  25802  O2   C   A1223     228.353 110.725  18.922  1.00 71.85      A16S
ATOM  25803  N3   C   A1223     230.139 111.252  20.212  1.00 71.85      A16S
ATOM  25804  C4   C   A1223     231.362 110.933  20.633  1.00 71.85      A16S
ATOM  25805  N4   C   A1223     231.960 111.766  21.493  1.00 71.85      A16S
ATOM  25806  C5   C   A1223     232.028 109.749  20.193  1.00 71.85      A16S
ATOM  25807  C2* C   A1223     229.423 108.995  16.532  1.00 47.06      A16S
ATOM  25808  O2* C   A1223     228.136 108.903  15.960  1.00 47.06      A16S
ATOM  25809  C3* C   A1223     230.439 108.104  15.830  1.00 47.06      A16S
ATOM  25810  O3* C   A1223     230.148 108.061  14.437  1.00 47.06      A16S
ATOM  25811  P    G   A1224     230.587 109.289  13.503  1.00 55.28      A16S
ATOM  25812  O1P G   A1224     230.060 110.539  14.094  1.00 79.74      A16S
ATOM  25813  O2P G   A1224     230.238 108.948  12.111  1.00 79.74      A16S
ATOM  25814  O5* G   A1224     232.175 109.304  13.644  1.00 55.28      A16S
ATOM  25815  C5* G   A1224     232.931 108.078  13.854  1.00 55.28      A16S
ATOM  25816  C4* G   A1224     234.399 108.295  13.532  1.00 55.28      A16S
ATOM  25817  O4* G   A1224     234.903 109.387  14.327  1.00 55.28      A16S
ATOM  25818  C1* G   A1224     236.259 109.162  14.647  1.00 55.28      A16S
ATOM  25819  N9   G   A1224     236.512 109.656  16.001  1.00 79.74      A16S
ATOM  25820  C4   G   A1224     237.248 110.771  16.300  1.00 79.74      A16S
ATOM  25821  N3   G   A1224     237.909 111.532  15.412  1.00 79.74      A16S
ATOM  25822  C2   G   A1224     238.496 112.560  15.982  1.00 79.74      A16S
ATOM  25823  N2   G   A1224     239.200 113.404  15.236  1.00 79.74      A16S
ATOM  25824  N1   G   A1224     238.437 112.834  17.323  1.00 79.74      A16S
ATOM  25825  C6   G   A1224     237.759 112.066  18.263  1.00 79.74      A16S
ATOM  25826  O6   G   A1224     237.760 112.412  19.451  1.00 79.74      A16S
ATOM  25827  C5   G   A1224     237.130 110.941  17.660  1.00 79.74      A16S
ATOM  25828  N7   G   A1224     236.373 109.922  18.219  1.00 79.74      A16S
ATOM  25829  C8   G   A1224     236.038 109.174  17.199  1.00 79.74      A16S
ATOM  25830  C2* G   A1224     236.669 107.747  14.220  1.00 55.28      A16S
ATOM  25831  O2* G   A1224     237.688 107.841  13.229  1.00 55.28      A16S
ATOM  25832  C3* G   A1224     235.313 107.118  13.838  1.00 55.28      A16S
ATOM  25833  O3* G   A1224     235.213 106.131  12.769  1.00 55.28      A16S
ATOM  25834  P    A   A1225     236.151 106.191  11.439  1.00 66.05      A16S
ATOM  25835  O1P A   A1225     236.570 107.578  11.112  1.00 60.84      A16S
ATOM  25836  O2P A   A1225     235.410 105.422  10.413  1.00 60.84      A16S
ATOM  25837  O5* A   A1225     237.422 105.320  11.860  1.00 66.05      A16S
ATOM  25838  C5* A   A1225     237.635 104.013  11.284  1.00 66.05      A16S
ATOM  25839  C4* A   A1225     237.077 102.920  12.178  1.00 66.05      A16S
ATOM  25840  O4* A   A1225     235.716 103.203  12.563  1.00 66.05      A16S
ATOM  25841  C1* A   A1225     235.090 101.988  12.915  1.00 66.05      A16S
ATOM  25842  N9   A   A1225     233.654 102.072  12.636  1.00 60.84      A16S
ATOM  25843  C4   A   A1225     232.913 101.416  11.680  1.00 60.84      A16S
ATOM  25844  N3   A   A1225     233.350 100.545  10.758  1.00 60.84      A16S
ATOM  25845  C2   A   A1225     232.339 100.118  10.002  1.00 60.84      A16S
ATOM  25846  N1   A   A1225     231.043 100.441  10.056  1.00 60.84      A16S
ATOM  25847  C6   A   A1225     230.639 101.324  10.987  1.00 60.84      A16S
ATOM  25848  N6   A   A1225     229.349 101.662  11.028  1.00 60.84      A16S
ATOM  25849  C5   A   A1225     231.608 101.844  11.856  1.00 60.84      A16S
ATOM  25850  N7   A   A1225     231.527 102.747  12.899  1.00 60.84      A16S
ATOM  25851  C8   A   A1225     232.761 102.848  13.325  1.00 60.84      A16S
ATOM  25852  C2* A   A1225     235.872 100.836  12.274  1.00 66.05      A16S
ATOM  25853  O2* A   A1225     236.355  99.981  13.285  1.00 66.05      A16S
ATOM  25854  C3* A   A1225     236.990 101.554  11.511  1.00 66.05      A16S
ATOM  25855  O3* A   A1225     238.211 100.853  11.717  1.00 66.05      A16S
ATOM  25856  P    C   A1226     239.341 100.869  10.588  1.00 74.61      A16S
ATOM  25857  O1P C   A1226     240.376  99.903  10.989  1.00 39.88      A16S
ATOM  25858  O2P C   A1226     239.724 102.262  10.294  1.00 39.88      A16S
ATOM  25859  O5* C   A1226     238.597 100.260   9.331  1.00 74.61      A16S
ATOM  25860  C5* C   A1226     239.002 100.596   8.005  1.00 74.61      A16S
ATOM  25861  C4* C   A1226     238.223  99.775   7.033  1.00 74.61      A16S
ATOM  25862  O4* C   A1226     236.882  99.681   7.539  1.00 74.61      A16S
ATOM  25863  C1* C   A1226     235.968  99.838   6.483  1.00 74.61      A16S
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ATOM  25864  N1  C  A1226     235.095 100.973   6.812  1.00 39.88      A16S
ATOM  25865  C6  C  A1226     235.595 102.100   7.403  1.00 39.88      A16S
ATOM  25866  C2  C  A1226     233.720 100.851   6.567  1.00 39.88      A16S
ATOM  25867  O2  C  A1226     233.295  99.844   5.944  1.00 39.88      A16S
ATOM  25868  N3  C  A1226     232.892 101.826   7.012  1.00 39.88      A16S
ATOM  25869  C4  C  A1226     233.387 102.883   7.652  1.00 39.88      A16S
ATOM  25870  N4  C  A1226     232.527 103.773   8.130  1.00 39.88      A16S
ATOM  25871  C5  C  A1226     234.781 103.063   7.844  1.00 39.88      A16S
ATOM  25872  C2* C  A1226     236.740  99.895   5.166  1.00 74.61      A16S
ATOM  25873  O2* C  A1226     236.728  98.596   4.619  1.00 74.61      A16S
ATOM  25874  C3* C  A1226     238.118 100.340   5.627  1.00 74.61      A16S
ATOM  25875  O3* C  A1226     239.205  99.898   4.790  1.00 74.61      A16S
ATOM  25876  P   A  A1227     239.522  98.316   4.595  1.00 40.86      A16S
ATOM  25877  O1P A  A1227     239.161  97.571   5.823  1.00 84.85      A16S
ATOM  25878  O2P A  A1227     240.913  98.223   4.074  1.00 84.85      A16S
ATOM  25879  O5* A  A1227     238.553  97.804   3.438  1.00 40.86      A16S
ATOM  25880  C5* A  A1227     238.694  96.457   2.954  1.00 40.86      A16S
ATOM  25881  C4* A  A1227     237.900  96.219   1.681  1.00 40.86      A16S
ATOM  25882  O4* A  A1227     236.656  95.531   1.979  1.00 40.86      A16S
ATOM  25883  C1* A  A1227     235.710  95.818   0.969  1.00 40.86      A16S
ATOM  25884  N9  A  A1227     234.573  96.524   1.577  1.00 84.85      A16S
ATOM  25885  C4  A  A1227     233.314  96.026   1.800  1.00 84.85      A16S
ATOM  25886  N3  A  A1227     232.878  94.783   1.555  1.00 84.85      A16S
ATOM  25887  C2  A  A1227     231.588  94.671   1.873  1.00 84.85      A16S
ATOM  25888  N1  A  A1227     230.746  95.595   2.362  1.00 84.85      A16S
ATOM  25889  C6  A  A1227     231.217  96.839   2.586  1.00 84.85      A16S
ATOM  25890  N6  A  A1227     230.370  97.770   3.039  1.00 84.85      A16S
ATOM  25891  C5  A  A1227     232.574  97.081   2.310  1.00 84.85      A16S
ATOM  25892  N7  A  A1227     233.359  98.214   2.440  1.00 84.85      A16S
ATOM  25893  C8  A  A1227     234.532  97.833   2.002  1.00 84.85      A16S
ATOM  25894  C2* A  A1227     236.415  96.695  -0.070  1.00 40.86      A16S
ATOM  25895  O2* A  A1227     236.988  95.870  -1.062  1.00 40.86      A16S
ATOM  25896  C3* A  A1227     237.489  97.366   0.772  1.00 40.86      A16S
ATOM  25897  O3* A  A1227     238.515  97.925  -0.045  1.00 40.86      A16S
ATOM  25898  P   C  A1228     238.257  99.355  -0.752  1.00 40.50      A16S
ATOM  25899  O1P C  A1228     239.391  99.645  -1.663  1.00 48.48      A16S
ATOM  25900  O2P C  A1228     237.878 100.357   0.274  1.00 48.48      A16S
ATOM  25901  O5* C  A1228     236.967  99.064  -1.635  1.00 40.50      A16S
ATOM  25902  C5* C  A1228     236.117 100.114  -2.091  1.00 40.50      A16S
ATOM  25903  C4* C  A1228     234.729  99.575  -2.289  1.00 40.50      A16S
ATOM  25904  O4* C  A1228     234.273  99.001  -1.031  1.00 40.50      A16S
ATOM  25905  C1* C  A1228     232.907  99.344  -0.810  1.00 40.50      A16S
ATOM  25906  N1  C  A1228     232.841 100.283   0.346  1.00 48.48      A16S
ATOM  25907  C6  C  A1228     233.984 100.809   0.885  1.00 48.48      A16S
ATOM  25908  C2  C  A1228     231.588 100.653   0.865  1.00 48.48      A16S
ATOM  25909  O2  C  A1228     230.567 100.143   0.401  1.00 48.48      A16S
ATOM  25910  N3  C  A1228     231.528 101.559   1.865  1.00 48.48      A16S
ATOM  25911  C4  C  A1228     232.648 102.082   2.358  1.00 48.48      A16S
ATOM  25912  N4  C  A1228     232.539 102.991   3.324  1.00 48.48      A16S
ATOM  25913  C5  C  A1228     233.932 101.702   1.877  1.00 48.48      A16S
ATOM  25914  C2* C  A1228     232.400 100.000  -2.102  1.00 40.50      A16S
ATOM  25915  O2* C  A1228     231.824  99.027  -2.960  1.00 40.50      A16S
ATOM  25916  C3* C  A1228     233.683 100.613  -2.650  1.00 40.50      A16S
ATOM  25917  O3* C  A1228     233.635 100.855  -4.038  1.00 40.50      A16S
ATOM  25918  P   A  A1229     233.434 102.353  -4.565  1.00 45.21      A16S
ATOM  25919  O1P A  A1229     233.782 102.355  -6.007  1.00 49.65      A16S
ATOM  25920  O2P A  A1229     234.120 103.287  -3.643  1.00 49.65      A16S
ATOM  25921  O5* A  A1229     231.875 102.633  -4.417  1.00 45.21      A16S
ATOM  25922  C5* A  A1229     230.911 102.120  -5.368  1.00 45.21      A16S
ATOM  25923  C4* A  A1229     229.568 102.779  -5.138  1.00 45.21      A16S
ATOM  25924  O4* A  A1229     229.047 102.387  -3.835  1.00 45.21      A16S
ATOM  25925  C1* A  A1229     228.527 103.523  -3.156  1.00 45.21      A16S
ATOM  25926  N9  A  A1229     229.387 103.801  -1.999  1.00 49.65      A16S
ATOM  25927  C4  A  A1229     229.139 104.684  -0.975  1.00 49.65      A16S
ATOM  25928  N3  A  A1229     228.047 105.441  -0.794  1.00 49.65      A16S
ATOM  25929  C2  A  A1229     228.168 106.176   0.304  1.00 49.65      A16S
ATOM  25930  N1  A  A1229     229.184 106.247   1.169  1.00 49.65      A16S
ATOM  25931  C6  A  A1229     230.269 105.485   0.949  1.00 49.65      A16S
ATOM  25932  N6  A  A1229     231.294 105.575   1.790  1.00 49.65      A16S
ATOM  25933  C5  A  A1229     230.258 104.645  -0.167  1.00 49.65      A16S
ATOM  25934  N7  A  A1229     231.185 103.737  -0.653  1.00 49.65      A16S
ATOM  25935  C8  A  A1229     230.621 103.261  -1.731  1.00 49.65      A16S
ATOM  25936  C2* A  A1229     228.535 104.684  -4.149  1.00 45.21      A16S
ATOM  25937  O2* A  A1229     227.295 104.744  -4.806  1.00 45.21      A16S
ATOM  25938  C3* A  A1229     229.674 104.288  -5.074  1.00 45.21      A16S
ATOM  25939  O3* A  A1229     229.588 104.869  -6.353  1.00 45.21      A16S
ATOM  25940  P   C  A1230     230.158 106.346  -6.576  1.00 33.95      A16S
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ATOM  25941  O1P C   A1230     230.174 106.648  -8.022  1.00 58.60      A16S
ATOM  25942  O2P C   A1230     231.415 106.448  -5.792  1.00 58.60      A16S
ATOM  25943  O5* C   A1230     229.054 107.281  -5.917  1.00 33.95      A16S
ATOM  25944  C5* C   A1230     227.728 107.362  -6.474  1.00 33.95      A16S
ATOM  25945  C4* C   A1230     226.841 108.223  -5.605  1.00 33.95      A16S
ATOM  25946  O4* C   A1230     226.758 107.650  -4.274  1.00 33.95      A16S
ATOM  25947  C1* C   A1230     226.716 108.688  -3.308  1.00 33.95      A16S
ATOM  25948  N1   C   A1230     227.893 108.560  -2.423  1.00 58.60      A16S
ATOM  25949  C6   C   A1230     228.897 107.683  -2.708  1.00 58.60      A16S
ATOM  25950  C2   C   A1230     227.973 109.370  -1.293  1.00 58.60      A16S
ATOM  25951  O2   C   A1230     227.036 110.129  -1.039  1.00 58.60      A16S
ATOM  25952  N3   C   A1230     229.062 109.306  -0.505  1.00 58.60      A16S
ATOM  25953  C4   C   A1230     230.047 108.463  -0.802  1.00 58.60      A16S
ATOM  25954  N4   C   A1230     231.120 108.442   0.000  1.00 58.60      A16S
ATOM  25955  C5   C   A1230     229.983 107.604  -1.934  1.00 58.60      A16S
ATOM  25956  C2* C   A1230     226.690 110.020  -4.063  1.00 33.95      A16S
ATOM  25957  O2* C   A1230     225.355 110.458  -4.229  1.00 33.95      A16S
ATOM  25958  C3* C   A1230     227.343 109.635  -5.380  1.00 33.95      A16S
ATOM  25959  O3* C   A1230     226.959 110.482  -6.436  1.00 33.95      A16S
ATOM  25960  P    G   A1231     227.723 111.872  -6.640  1.00 41.12      A16S
ATOM  25961  O1P G   A1231     227.276 112.466  -7.929  1.00 54.43      A16S
ATOM  25962  O2P G   A1231     229.169 111.658  -6.388  1.00 54.43      A16S
ATOM  25963  O5* G   A1231     227.163 112.774  -5.463  1.00 41.12      A16S
ATOM  25964  C5* G   A1231     225.778 113.098  -5.404  1.00 41.12      A16S
ATOM  25965  C4* G   A1231     225.490 113.928  -4.187  1.00 41.12      A16S
ATOM  25966  O4* G   A1231     225.715 113.136  -3.002  1.00 41.12      A16S
ATOM  25967  C1* G   A1231     226.171 113.976  -1.964  1.00 41.12      A16S
ATOM  25968  N9   G   A1231     227.481 113.516  -1.541  1.00 54.43      A16S
ATOM  25969  C4   G   A1231     228.173 113.966  -0.458  1.00 54.43      A16S
ATOM  25970  N3   G   A1231     227.746 114.890   0.414  1.00 54.43      A16S
ATOM  25971  C2   G   A1231     228.642 115.130   1.342  1.00 54.43      A16S
ATOM  25972  N2   G   A1231     228.379 116.006   2.307  1.00 54.43      A16S
ATOM  25973  N1   G   A1231     229.864 114.528   1.398  1.00 54.43      A16S
ATOM  25974  C6   G   A1231     230.324 113.583   0.502  1.00 54.43      A16S
ATOM  25975  O6   G   A1231     231.456 113.117   0.629  1.00 54.43      A16S
ATOM  25976  C5   G   A1231     229.365 113.296  -0.481  1.00 54.43      A16S
ATOM  25977  N7   G   A1231     229.412 112.413  -1.546  1.00 54.43      A16S
ATOM  25978  C8   G   A1231     228.270 112.579  -2.147  1.00 54.43      A16S
ATOM  25979  C2* G   A1231     226.231 115.401  -2.502  1.00 41.12      A16S
ATOM  25980  O2* G   A1231     225.018 116.034  -2.177  1.00 41.12      A16S
ATOM  25981  C3* G   A1231     226.353 115.158  -3.993  1.00 41.12      A16S
ATOM  25982  O3* G   A1231     225.883 116.257  -4.749  1.00 41.12      A16S
ATOM  25983  P    U   A1232     226.938 117.320  -5.325  1.00 34.04      A16S
ATOM  25984  O1P U   A1232     226.254 118.242  -6.282  1.00 61.29      A16S
ATOM  25985  O2P U   A1232     228.129 116.549  -5.775  1.00 61.29      A16S
ATOM  25986  O5* U   A1232     227.364 118.130  -4.028  1.00 34.04      A16S
ATOM  25987  C5* U   A1232     226.390 118.863  -3.266  1.00 34.04      A16S
ATOM  25988  C4* U   A1232     227.050 119.505  -2.071  1.00 34.04      A16S
ATOM  25989  O4* U   A1232     227.507 118.489  -1.145  1.00 34.04      A16S
ATOM  25990  C1* U   A1232     228.747 118.866  -0.599  1.00 34.04      A16S
ATOM  25991  N1   U   A1232     229.706 117.806  -0.922  1.00 61.29      A16S
ATOM  25992  C6   U   A1232     229.434 116.893  -1.905  1.00 61.29      A16S
ATOM  25993  C2   U   A1232     230.892 117.760  -0.216  1.00 61.29      A16S
ATOM  25994  O2   U   A1232     231.162 118.537   0.686  1.00 61.29      A16S
ATOM  25995  N3   U   A1232     231.754 116.767  -0.603  1.00 61.29      A16S
ATOM  25996  C4   U   A1232     231.552 115.840  -1.595  1.00 61.29      A16S
ATOM  25997  O4   U   A1232     232.467 115.083  -1.910  1.00 61.29      A16S
ATOM  25998  C5   U   A1232     230.289 115.939  -2.254  1.00 61.29      A16S
ATOM  25999  C2* U   A1232     229.124 120.238  -1.171  1.00 34.04      A16S
ATOM  26000  O2* U   A1232     228.787 121.259  -0.264  1.00 34.04      A16S
ATOM  26001  C3* U   A1232     228.281 120.303  -2.433  1.00 34.04      A16S
ATOM  26002  O3* U   A1232     227.883 121.620  -2.770  1.00 34.04      A16S
ATOM  26003  P    G   A1233     228.900 122.578  -3.539  1.00 39.20      A16S
ATOM  26004  O1P G   A1233     228.153 123.789  -3.957  1.00 64.18      A16S
ATOM  26005  O2P G   A1233     229.599 121.762  -4.552  1.00 64.18      A16S
ATOM  26006  O5* G   A1233     229.950 122.944  -2.396  1.00 39.20      A16S
ATOM  26007  C5* G   A1233     231.370 122.989  -2.665  1.00 39.20      A16S
ATOM  26008  C4* G   A1233     232.167 122.679  -1.412  1.00 39.20      A16S
ATOM  26009  O4* G   A1233     232.017 121.274  -1.076  1.00 39.20      A16S
ATOM  26010  C1* G   A1233     233.242 120.767  -0.568  1.00 39.20      A16S
ATOM  26011  N9   G   A1233     233.685 119.649  -1.398  1.00 64.18      A16S
ATOM  26012  C4   G   A1233     234.852 118.945  -1.239  1.00 64.18      A16S
ATOM  26013  N3   G   A1233     235.792 119.180  -0.304  1.00 64.18      A16S
ATOM  26014  C2   G   A1233     236.794 118.330  -0.393  1.00 64.18      A16S
ATOM  26015  N2   G   A1233     237.816 118.412   0.469  1.00 64.18      A16S
ATOM  26016  N1   G   A1233     236.866 117.335  -1.330  1.00 64.18      A16S
ATOM  26017  C6   G   A1233     235.910 117.078  -2.300  1.00 64.18      A16S
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ATOM  26018  O6  G  A1233     236.074 116.149  -3.091  1.00 64.18      A16S
ATOM  26019  C5  G  A1233     234.834 117.977  -2.217  1.00 64.18      A16S
ATOM  26020  N7  G  A1233     233.687 118.076  -2.990  1.00 64.18      A16S
ATOM  26021  C8  G  A1233     233.037 119.084  -2.471  1.00 64.18      A16S
ATOM  26022  C2* G  A1233     234.257 121.904  -0.549  1.00 39.20      A16S
ATOM  26023  O2* G  A1233     234.364 122.422   0.758  1.00 39.20      A16S
ATOM  26024  C3* G  A1233     233.667 122.853  -1.582  1.00 39.20      A16S
ATOM  26025  O3* G  A1233     234.076 124.205  -1.432  1.00 39.20      A16S
ATOM  26026  P   C  A1234     235.180 124.812  -2.438  1.00 39.77      A16S
ATOM  26027  O1P C  A1234     234.997 126.292  -2.464  1.00 48.30      A16S
ATOM  26028  O2P C  A1234     235.159 124.051  -3.714  1.00 48.30      A16S
ATOM  26029  O5* C  A1234     236.563 124.435  -1.746  1.00 39.77      A16S
ATOM  26030  C5* C  A1234     236.846 124.840  -0.398  1.00 39.77      A16S
ATOM  26031  C4* C  A1234     238.063 124.110   0.125  1.00 39.77      A16S
ATOM  26032  O4* C  A1234     237.796 122.685   0.179  1.00 39.77      A16S
ATOM  26033  C1* C  A1234     238.957 121.965  -0.174  1.00 39.77      A16S
ATOM  26034  N1  C  A1234     238.660 121.180  -1.388  1.00 48.30      A16S
ATOM  26035  C6  C  A1234     237.519 121.396  -2.108  1.00 48.30      A16S
ATOM  26036  C2  C  A1234     239.566 120.188  -1.786  1.00 48.30      A16S
ATOM  26037  O2  C  A1234     240.617 120.050  -1.153  1.00 48.30      A16S
ATOM  26038  N3  C  A1234     239.281 119.416  -2.852  1.00 48.30      A16S
ATOM  26039  C4  C  A1234     238.152 119.610  -3.526  1.00 48.30      A16S
ATOM  26040  N4  C  A1234     237.895 118.796  -4.550  1.00 48.30      A16S
ATOM  26041  C5  C  A1234     237.228 120.643  -3.173  1.00 48.30      A16S
ATOM  26042  C2* C  A1234     240.080 122.978  -0.378  1.00 39.77      A16S
ATOM  26043  O2* C  A1234     240.801 123.123   0.821  1.00 39.77      A16S
ATOM  26044  C3* C  A1234     239.296 124.225  -0.742  1.00 39.77      A16S
ATOM  26045  O3* C  A1234     240.006 125.419  -0.516  1.00 39.77      A16S
ATOM  26046  P   U  A1235     240.752 126.115  -1.748  1.00 37.30      A16S
ATOM  26047  O1P U  A1235     241.392 127.349  -1.225  1.00 44.67      A16S
ATOM  26048  O2P U  A1235     239.836 126.213  -2.919  1.00 44.67      A16S
ATOM  26049  O5* U  A1235     241.891 125.059  -2.094  1.00 37.30      A16S
ATOM  26050  C5* U  A1235     242.956 124.813  -1.171  1.00 37.30      A16S
ATOM  26051  C4* U  A1235     243.903 123.778  -1.719  1.00 37.30      A16S
ATOM  26052  O4* U  A1235     243.242 122.486  -1.774  1.00 37.30      A16S
ATOM  26053  C1* U  A1235     243.774 121.722  -2.852  1.00 37.30      A16S
ATOM  26054  N1  U  A1235     242.686 121.364  -3.787  1.00 44.67      A16S
ATOM  26055  C6  U  A1235     241.577 122.165  -3.930  1.00 44.67      A16S
ATOM  26056  C2  U  A1235     242.811 120.180  -4.531  1.00 44.67      A16S
ATOM  26057  O2  U  A1235     243.778 119.437  -4.457  1.00 44.67      A16S
ATOM  26058  N3  U  A1235     241.762 119.907  -5.369  1.00 44.67      A16S
ATOM  26059  C4  U  A1235     240.634 120.669  -5.555  1.00 44.67      A16S
ATOM  26060  O4  U  A1235     239.807 120.326  -6.401  1.00 44.67      A16S
ATOM  26061  C5  U  A1235     240.578 121.866  -4.763  1.00 44.67      A16S
ATOM  26062  C2* U  A1235     244.859 122.574  -3.509  1.00 37.30      A16S
ATOM  26063  O2* U  A1235     246.110 122.280  -2.923  1.00 37.30      A16S
ATOM  26064  C3* U  A1235     244.418 123.978  -3.134  1.00 37.30      A16S
ATOM  26065  O3* U  A1235     245.500 124.877  -3.242  1.00 37.30      A16S
ATOM  26066  P   A  A1236     245.732 125.654  -4.627  1.00 49.67      A16S
ATOM  26067  O1P A  A1236     247.042 126.321  -4.455  1.00 47.41      A16S
ATOM  26068  O2P A  A1236     244.547 126.469  -4.968  1.00 47.41      A16S
ATOM  26069  O5* A  A1236     245.884 124.496  -5.724  1.00 49.67      A16S
ATOM  26070  C5* A  A1236     247.092 123.703  -5.760  1.00 49.67      A16S
ATOM  26071  C4* A  A1236     247.015 122.534  -6.737  1.00 49.67      A16S
ATOM  26072  O4* A  A1236     245.869 121.679  -6.493  1.00 49.67      A16S
ATOM  26073  C1* A  A1236     245.706 120.815  -7.604  1.00 49.67      A16S
ATOM  26074  N9  A  A1236     244.323 120.824  -8.080  1.00 47.41      A16S
ATOM  26075  C4  A  A1236     243.691 119.727  -8.610  1.00 47.41      A16S
ATOM  26076  N3  A  A1236     244.190 118.487  -8.741  1.00 47.41      A16S
ATOM  26077  C2  A  A1236     243.295 117.681  -9.292  1.00 47.41      A16S
ATOM  26078  N1  A  A1236     242.056 117.950  -9.707  1.00 47.41      A16S
ATOM  26079  C6  A  A1236     241.593 119.209  -9.579  1.00 47.41      A16S
ATOM  26080  N6  A  A1236     240.366 119.485 -10.025  1.00 47.41      A16S
ATOM  26081  C5  A  A1236     242.440 120.159  -8.991  1.00 47.41      A16S
ATOM  26082  N7  A  A1236     242.273 121.505  -8.693  1.00 47.41      A16S
ATOM  26083  C8  A  A1236     243.415 121.849  -8.150  1.00 47.41      A16S
ATOM  26084  C2* A  A1236     246.631 121.312  -8.705  1.00 49.67      A16S
ATOM  26085  O2* A  A1236     247.736 120.437  -8.680  1.00 49.67      A16S
ATOM  26086  C3* A  A1236     246.960 122.731  -8.242  1.00 49.67      A16S
ATOM  26087  O3* A  A1236     248.211 123.109  -8.793  1.00 49.67      A16S
ATOM  26088  P   C  A1237     248.274 123.766 -10.263  1.00 52.95      A16S
ATOM  26089  O1P C  A1237     249.505 124.602 -10.258  1.00 33.83      A16S
ATOM  26090  O2P C  A1237     246.974 124.377 -10.626  1.00 33.83      A16S
ATOM  26091  O5* C  A1237     248.475 122.537 -11.252  1.00 52.95      A16S
ATOM  26092  C5* C  A1237     249.657 121.727 -11.192  1.00 52.95      A16S
ATOM  26093  C4* C  A1237     249.416 120.413 -11.884  1.00 52.95      A16S
ATOM  26094  O4* C  A1237     248.308 119.746 -11.232  1.00 52.95      A16S
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ATOM  26095  C1* C   A1237     247.501 119.092 -12.191  1.00 52.95      A16S
ATOM  26096  N1  C   A1237     246.153 119.697 -12.148  1.00 33.83      A16S
ATOM  26097  C6  C   A1237     245.989 120.996 -11.758  1.00 33.83      A16S
ATOM  26098  C2  C   A1237     245.044 118.937 -12.533  1.00 33.83      A16S
ATOM  26099  O2  C   A1237     245.200 117.741 -12.811  1.00 33.83      A16S
ATOM  26100  N3  C   A1237     243.824 119.525 -12.577  1.00 33.83      A16S
ATOM  26101  C4  C   A1237     243.689 120.801 -12.218  1.00 33.83      A16S
ATOM  26102  N4  C   A1237     242.489 121.352 -12.298  1.00 33.83      A16S
ATOM  26103  C5  C   A1237     244.786 121.575 -11.770  1.00 33.83      A16S
ATOM  26104  C2* C   A1237     248.187 119.256 -13.551  1.00 52.95      A16S
ATOM  26105  O2* C   A1237     248.991 118.129 -13.818  1.00 52.95      A16S
ATOM  26106  C3* C   A1237     249.018 120.515 -13.343  1.00 52.95      A16S
ATOM  26107  O3* C   A1237     250.187 120.524 -14.152  1.00 52.95      A16S
ATOM  26108  P   A   A1238     250.063 120.585 -15.756  1.00 34.37      A16S
ATOM  26109  O1P A   A1238     248.661 120.319 -16.142  1.00 58.33      A16S
ATOM  26110  O2P A   A1238     251.144 119.737 -16.317  1.00 58.33      A16S
ATOM  26111  O5* A   A1238     250.392 122.101 -16.113  1.00 34.37      A16S
ATOM  26112  C5* A   A1238     249.352 123.063 -16.175  1.00 34.37      A16S
ATOM  26113  C4* A   A1238     249.674 124.250 -15.305  1.00 34.37      A16S
ATOM  26114  O4* A   A1238     250.352 123.825 -14.094  1.00 34.37      A16S
ATOM  26115  C1* A   A1238     251.056 124.929 -13.548  1.00 34.37      A16S
ATOM  26116  N9  A   A1238     252.450 124.577 -13.297  1.00 58.33      A16S
ATOM  26117  C4  A   A1238     253.387 125.460 -12.814  1.00 58.33      A16S
ATOM  26118  N3  A   A1238     253.192 126.736 -12.450  1.00 58.33      A16S
ATOM  26119  C2  A   A1238     254.328 127.292 -12.066  1.00 58.33      A16S
ATOM  26120  N1  A   A1238     255.541 126.766 -12.015  1.00 58.33      A16S
ATOM  26121  C6  A   A1238     255.704 125.485 -12.391  1.00 58.33      A16S
ATOM  26122  N6  A   A1238     256.924 124.962 -12.356  1.00 58.33      A16S
ATOM  26123  C5  A   A1238     254.578 124.778 -12.804  1.00 58.33      A16S
ATOM  26124  N7  A   A1238     254.398 123.472 -13.233  1.00 58.33      A16S
ATOM  26125  C8  A   A1238     253.118 123.401 -13.503  1.00 58.33      A16S
ATOM  26126  C2* A   A1238     250.983 126.064 -14.564  1.00 34.37      A16S
ATOM  26127  O2* A   A1238     249.965 126.930 -14.113  1.00 34.37      A16S
ATOM  26128  C3* A   A1238     250.605 125.325 -15.841  1.00 34.37      A16S
ATOM  26129  O3* A   A1238     249.941 126.201 -16.745  1.00 34.37      A16S
ATOM  26130  P   A   A1239     250.765 126.863 -17.953  1.00 43.53      A16S
ATOM  26131  O1P A   A1239     249.831 127.643 -18.796  1.00 45.24      A16S
ATOM  26132  O2P A   A1239     251.613 125.816 -18.568  1.00 45.24      A16S
ATOM  26133  O5* A   A1239     251.714 127.916 -17.239  1.00 43.53      A16S
ATOM  26134  C5* A   A1239     251.178 129.147 -16.736  1.00 43.53      A16S
ATOM  26135  C4* A   A1239     252.191 130.251 -16.875  1.00 43.53      A16S
ATOM  26136  O4* A   A1239     253.363 129.900 -16.100  1.00 43.53      A16S
ATOM  26137  C1* A   A1239     254.505 129.987 -16.912  1.00 43.53      A16S
ATOM  26138  N9  A   A1239     255.468 128.991 -16.471  1.00 45.24      A16S
ATOM  26139  C4  A   A1239     256.814 129.213 -16.386  1.00 45.24      A16S
ATOM  26140  N3  A   A1239     257.470 130.343 -16.705  1.00 45.24      A16S
ATOM  26141  C2  A   A1239     258.778 130.197 -16.502  1.00 45.24      A16S
ATOM  26142  N1  A   A1239     259.455 129.127 -16.052  1.00 45.24      A16S
ATOM  26143  C6  A   A1239     258.764 128.006 -15.746  1.00 45.24      A16S
ATOM  26144  N6  A   A1239     259.441 126.941 -15.313  1.00 45.24      A16S
ATOM  26145  C5  A   A1239     257.361 128.037 -15.913  1.00 45.24      A16S
ATOM  26146  N7  A   A1239     256.368 127.089 -15.705  1.00 45.24      A16S
ATOM  26147  C8  A   A1239     255.269 127.705 -16.055  1.00 45.24      A16S
ATOM  26148  C2* A   A1239     254.030 129.830 -18.348  1.00 43.53      A16S
ATOM  26149  O2* A   A1239     254.933 130.478 -19.215  1.00 43.53      A16S
ATOM  26150  C3* A   A1239     252.680 130.537 -18.290  1.00 43.53      A16S
ATOM  26151  O3* A   A1239     252.878 131.934 -18.437  1.00 43.53      A16S
ATOM  26152  P   U   A1240     251.962 132.757 -19.462  1.00 46.07      A16S
ATOM  26153  O1P U   A1240     251.261 131.769 -20.321  1.00 47.15      A16S
ATOM  26154  O2P U   A1240     252.789 133.817 -20.094  1.00 47.15      A16S
ATOM  26155  O5* U   A1240     250.860 133.442 -18.532  1.00 46.07      A16S
ATOM  26156  C5* U   A1240     251.220 134.446 -17.555  1.00 46.07      A16S
ATOM  26157  C4* U   A1240     249.987 134.947 -16.828  1.00 46.07      A16S
ATOM  26158  O4* U   A1240     249.059 135.514 -17.791  1.00 46.07      A16S
ATOM  26159  C1* U   A1240     247.800 134.912 -17.634  1.00 46.07      A16S
ATOM  26160  N1  U   A1240     247.136 134.873 -18.938  1.00 47.15      A16S
ATOM  26161  C6  U   A1240     247.656 134.177 -19.995  1.00 47.15      A16S
ATOM  26162  C2  U   A1240     245.953 135.576 -19.061  1.00 47.15      A16S
ATOM  26163  O2  U   A1240     245.458 136.215 -18.148  1.00 47.15      A16S
ATOM  26164  N3  U   A1240     245.365 135.508 -20.294  1.00 47.15      A16S
ATOM  26165  C4  U   A1240     245.825 134.829 -21.389  1.00 47.15      A16S
ATOM  26166  O4  U   A1240     245.178 134.870 -22.432  1.00 47.15      A16S
ATOM  26167  C5  U   A1240     247.058 134.129 -21.184  1.00 47.15      A16S
ATOM  26168  C2* U   A1240     248.061 133.558 -16.987  1.00 46.07      A16S
ATOM  26169  O2* U   A1240     246.905 133.111 -16.325  1.00 46.07      A16S
ATOM  26170  C3* U   A1240     249.199 133.906 -16.039  1.00 46.07      A16S
ATOM  26171  O3* U   A1240     248.597 134.545 -14.918  1.00 46.07      A16S
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ATOM  26172  P    G    A1241     249.384 134.657 -13.518  1.00 54.58      A16S
ATOM  26173  O1P  G    A1241     248.338 134.874 -12.468  1.00 44.87      A16S
ATOM  26174  O2P  G    A1241     250.455 135.662 -13.698  1.00 44.87      A16S
ATOM  26175  O5*  G    A1241     250.087 133.238 -13.311  1.00 54.58      A16S
ATOM  26176  C5*  G    A1241     249.323 132.030 -13.262  1.00 54.58      A16S
ATOM  26177  C4*  G    A1241     250.210 130.878 -12.891  1.00 54.58      A16S
ATOM  26178  O4*  G    A1241     251.223 130.717 -13.908  1.00 54.58      A16S
ATOM  26179  C1*  G    A1241     252.441 130.299 -13.312  1.00 54.58      A16S
ATOM  26180  N9   G    A1241     253.494 131.255 -13.667  1.00 44.87      A16S
ATOM  26181  C4   G    A1241     254.851 131.089 -13.492  1.00 44.87      A16S
ATOM  26182  N3   G    A1241     255.454 130.016 -12.959  1.00 44.87      A16S
ATOM  26183  C2   G    A1241     256.762 130.149 -12.928  1.00 44.87      A16S
ATOM  26184  N2   G    A1241     257.506 129.172 -12.433  1.00 44.87      A16S
ATOM  26185  N1   G    A1241     257.435 131.248 -13.375  1.00 44.87      A16S
ATOM  26186  C6   G    A1241     256.838 132.377 -13.915  1.00 44.87      A16S
ATOM  26187  O6   G    A1241     257.536 133.342 -14.262  1.00 44.87      A16S
ATOM  26188  C5   G    A1241     255.426 132.242 -13.971  1.00 44.87      A16S
ATOM  26189  N7   G    A1241     254.457 133.116 -14.446  1.00 44.87      A16S
ATOM  26190  C8   G    A1241     253.331 132.493 -14.245  1.00 44.87      A16S
ATOM  26191  C2*  G    A1241     252.200 130.158 -11.808  1.00 54.58      A16S
ATOM  26192  O2*  G    A1241     251.929 128.813 -11.492  1.00 54.58      A16S
ATOM  26193  C3*  G    A1241     250.986 131.052 -11.600  1.00 54.58      A16S
ATOM  26194  O3*  G    A1241     250.214 130.622 -10.490  1.00 54.58      A16S
ATOM  26195  P    C    A1242     250.529 131.197  -9.024  1.00 52.20      A16S
ATOM  26196  O1P  C    A1242     249.443 130.689  -8.142  1.00 42.08      A16S
ATOM  26197  O2P  C    A1242     250.763 132.666  -9.133  1.00 42.08      A16S
ATOM  26198  O5*  C    A1242     251.873 130.456  -8.605  1.00 52.20      A16S
ATOM  26199  C5*  C    A1242     251.812 129.127  -8.081  1.00 52.20      A16S
ATOM  26200  C4*  C    A1242     253.190 128.609  -7.785  1.00 52.20      A16S
ATOM  26201  O4*  C    A1242     253.952 128.627  -9.013  1.00 52.20      A16S
ATOM  26202  C1*  C    A1242     255.307 128.921  -8.730  1.00 52.20      A16S
ATOM  26203  N1   C    A1242     255.652 130.185  -9.399  1.00 42.08      A16S
ATOM  26204  C6   C    A1242     254.691 130.966  -9.985  1.00 42.08      A16S
ATOM  26205  C2   C    A1242     256.985 130.580  -9.418  1.00 42.08      A16S
ATOM  26206  O2   C    A1242     257.827 129.849  -8.869  1.00 42.08      A16S
ATOM  26207  N3   C    A1242     257.321 131.745 -10.024  1.00 42.08      A16S
ATOM  26208  C4   C    A1242     256.372 132.504 -10.579  1.00 42.08      A16S
ATOM  26209  N4   C    A1242     256.739 133.654 -11.139  1.00 42.08      A16S
ATOM  26210  C5   C    A1242     255.004 132.121 -10.576  1.00 42.08      A16S
ATOM  26211  C2*  C    A1242     255.451 129.024  -7.213  1.00 52.20      A16S
ATOM  26212  O2*  C    A1242     255.877 127.772  -6.700  1.00 52.20      A16S
ATOM  26213  C3*  C    A1242     254.033 129.412  -6.808  1.00 52.20      A16S
ATOM  26214  O3*  C    A1242     253.732 129.124  -5.445  1.00 52.20      A16S
ATOM  26215  P    C    A1243     253.840 130.296  -4.347  1.00 64.71      A16S
ATOM  26216  O1P  C    A1243     253.328 129.765  -3.059  1.00 54.99      A16S
ATOM  26217  O2P  C    A1243     253.258 131.544  -4.921  1.00 54.99      A16S
ATOM  26218  O5*  C    A1243     255.411 130.489  -4.174  1.00 64.71      A16S
ATOM  26219  C5*  C    A1243     256.250 129.363  -3.822  1.00 64.71      A16S
ATOM  26220  C4*  C    A1243     257.719 129.738  -3.876  1.00 64.71      A16S
ATOM  26221  O4*  C    A1243     258.137 129.980  -5.242  1.00 64.71      A16S
ATOM  26222  C1*  C    A1243     259.125 130.989  -5.262  1.00 64.71      A16S
ATOM  26223  N1   C    A1243     258.631 132.109  -6.068  1.00 54.99      A16S
ATOM  26224  C6   C    A1243     257.294 132.295  -6.261  1.00 54.99      A16S
ATOM  26225  C2   C    A1243     259.557 132.999  -6.626  1.00 54.99      A16S
ATOM  26226  O2   C    A1243     260.772 132.802  -6.437  1.00 54.99      A16S
ATOM  26227  N3   C    A1243     259.109 134.053  -7.348  1.00 54.99      A16S
ATOM  26228  C4   C    A1243     257.796 134.238  -7.507  1.00 54.99      A16S
ATOM  26229  N4   C    A1243     257.386 135.311  -8.196  1.00 54.99      A16S
ATOM  26230  C5   C    A1243     256.837 133.336  -6.962  1.00 54.99      A16S
ATOM  26231  C2*  C    A1243     259.404 131.407  -3.821  1.00 64.71      A16S
ATOM  26232  O2*  C    A1243     260.544 130.708  -3.371  1.00 64.71      A16S
ATOM  26233  C3*  C    A1243     258.116 130.991  -3.122  1.00 64.71      A16S
ATOM  26234  O3*  C    A1243     258.288 130.713  -1.739  1.00 64.71      A16S
ATOM  26235  P    C    A1244     257.985 131.860  -0.655  1.00 89.51      A16S
ATOM  26236  O1P  C    A1244     258.026 131.187   0.661  1.00 51.82      A16S
ATOM  26237  O2P  C    A1244     256.785 132.651  -1.042  1.00 51.82      A16S
ATOM  26238  O5*  C    A1244     259.247 132.819  -0.781  1.00 89.51      A16S
ATOM  26239  C5*  C    A1244     260.555 132.371  -0.383  1.00 89.51      A16S
ATOM  26240  C4*  C    A1244     261.571 133.463  -0.600  1.00 89.51      A16S
ATOM  26241  O4*  C    A1244     261.860 133.611  -2.014  1.00 89.51      A16S
ATOM  26242  C1*  C    A1244     262.142 134.973  -2.303  1.00 89.51      A16S
ATOM  26243  N1   C    A1244     261.131 135.485  -3.237  1.00 51.82      A16S
ATOM  26244  C6   C    A1244     259.870 134.958  -3.262  1.00 51.82      A16S
ATOM  26245  C2   C    A1244     261.471 136.560  -4.089  1.00 51.82      A16S
ATOM  26246  O2   C    A1244     262.640 137.010  -4.073  1.00 51.82      A16S
ATOM  26247  N3   C    A1244     260.523 137.077  -4.902  1.00 51.82      A16S
ATOM  26248  C4   C    A1244     259.289 136.567  -4.897  1.00 51.82      A16S
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ATOM  26249  N4  C   A1244     258.382 137.120  -5.703  1.00 51.82      A16S
ATOM  26250  C5  C   A1244     258.927 135.465  -4.062  1.00 51.82      A16S
ATOM  26251  C2* C   A1244     262.050 135.751  -0.995  1.00 89.51      A16S
ATOM  26252  O2* C   A1244     263.341 135.906  -0.446  1.00 89.51      A16S
ATOM  26253  C3* C   A1244     261.137 134.852  -0.174  1.00 89.51      A16S
ATOM  26254  O3* C   A1244     261.238 135.075   1.217  1.00 89.51      A16S
ATOM  26255  P   A   A1245     260.390 136.266   1.880  1.00 81.32      A16S
ATOM  26256  O1P A   A1245     260.629 136.150   3.344  1.00 68.48      A16S
ATOM  26257  O2P A   A1245     258.997 136.261   1.362  1.00 68.48      A16S
ATOM  26258  O5* A   A1245     261.095 137.576   1.313  1.00 81.32      A16S
ATOM  26259  C5* A   A1245     262.489 137.803   1.544  1.00 81.32      A16S
ATOM  26260  C4* A   A1245     262.954 139.003   0.773  1.00 81.32      A16S
ATOM  26261  O4* A   A1245     262.802 138.757  -0.644  1.00 81.32      A16S
ATOM  26262  C1* A   A1245     262.480 139.968  -1.305  1.00 81.32      A16S
ATOM  26263  N9  A   A1245     261.207 139.790  -1.995  1.00 68.48      A16S
ATOM  26264  C4  A   A1245     260.733 140.587  -3.004  1.00 68.48      A16S
ATOM  26265  N3  A   A1245     261.336 141.655  -3.545  1.00 68.48      A16S
ATOM  26266  C2  A   A1245     260.576 142.187  -4.492  1.00 68.48      A16S
ATOM  26267  N1  A   A1245     259.375 141.804  -4.924  1.00 68.48      A16S
ATOM  26268  C6  A   A1245     258.798 140.729  -4.353  1.00 68.48      A16S
ATOM  26269  N6  A   A1245     257.592 140.353  -4.775  1.00 68.48      A16S
ATOM  26270  C5  A   A1245     259.502 140.072  -3.342  1.00 68.48      A16S
ATOM  26271  N7  A   A1245     259.202 138.963  -2.565  1.00 68.48      A16S
ATOM  26272  C8  A   A1245     260.245 138.837  -1.784  1.00 68.48      A16S
ATOM  26273  C2* A   A1245     262.403 141.077  -0.253  1.00 81.32      A16S
ATOM  26274  O2* A   A1245     263.602 141.825  -0.232  1.00 81.32      A16S
ATOM  26275  C3* A   A1245     262.165 140.272   1.017  1.00 81.32      A16S
ATOM  26276  O3* A   A1245     262.596 140.949   2.176  1.00 81.32      A16S
ATOM  26277  P   C   A1246     261.571 141.904   2.942  1.00 80.59      A16S
ATOM  26278  O1P C   A1246     262.279 142.375   4.153  1.00101.92      A16S
ATOM  26279  O2P C   A1246     260.275 141.195   3.080  1.00101.92      A16S
ATOM  26280  O5* C   A1246     261.382 143.122   1.932  1.00 80.59      A16S
ATOM  26281  C5* C   A1246     262.475 144.014   1.669  1.00 80.59      A16S
ATOM  26282  C4* C   A1246     262.101 145.022   0.613  1.00 80.59      A16S
ATOM  26283  O4* C   A1246     261.879 144.336  -0.647  1.00 80.59      A16S
ATOM  26284  C1* C   A1246     260.866 145.011  -1.383  1.00 80.59      A16S
ATOM  26285  N1  C   A1246     259.720 144.097  -1.575  1.00101.92      A16S
ATOM  26286  C6  C   A1246     259.628 142.926  -0.873  1.00101.92      A16S
ATOM  26287  C2  C   A1246     258.709 144.456  -2.492  1.00101.92      A16S
ATOM  26288  O2  C   A1246     258.799 145.532  -3.106  1.00101.92      A16S
ATOM  26289  N3  C   A1246     257.663 143.625  -2.673  1.00101.92      A16S
ATOM  26290  C4  C   A1246     257.589 142.485  -1.983  1.00101.92      A16S
ATOM  26291  N4  C   A1246     256.541 141.691  -2.202  1.00101.92      A16S
ATOM  26292  C5  C   A1246     258.589 142.103  -1.041  1.00101.92      A16S
ATOM  26293  C2* C   A1246     260.450 146.240  -0.578  1.00 80.59      A16S
ATOM  26294  O2* C   A1246     261.144 147.380  -1.055  1.00 80.59      A16S
ATOM  26295  C3* C   A1246     260.820 145.810   0.838  1.00 80.59      A16S
ATOM  26296  O3* C   A1246     260.956 146.906   1.734  1.00 80.59      A16S
ATOM  26297  P   U   A1247     259.700 147.340   2.646  1.00 72.37      A16S
ATOM  26298  O1P U   A1247     260.128 148.468   3.506  1.00102.45      A16S
ATOM  26299  O2P U   A1247     259.155 146.106   3.275  1.00102.45      A16S
ATOM  26300  O5* U   A1247     258.632 147.907   1.603  1.00 72.37      A16S
ATOM  26301  C5* U   A1247     258.975 148.982   0.699  1.00 72.37      A16S
ATOM  26302  C4* U   A1247     257.917 149.148  -0.379  1.00 72.37      A16S
ATOM  26303  O4* U   A1247     257.881 147.974  -1.237  1.00 72.37      A16S
ATOM  26304  C1* U   A1247     256.543 147.719  -1.648  1.00 72.37      A16S
ATOM  26305  N1  U   A1247     256.110 146.441  -1.058  1.00102.45      A16S
ATOM  26306  C6  U   A1247     256.622 146.005   0.145  1.00102.45      A16S
ATOM  26307  C2  U   A1247     255.156 145.697  -1.731  1.00102.45      A16S
ATOM  26308  O2  U   A1247     254.679 146.033  -2.803  1.00102.45      A16S
ATOM  26309  N3  U   A1247     254.773 144.541  -1.096  1.00102.45      A16S
ATOM  26310  C4  U   A1247     255.235 144.064   0.116  1.00102.45      A16S
ATOM  26311  O4  U   A1247     254.750 143.034   0.589  1.00102.45      A16S
ATOM  26312  C5  U   A1247     256.226 144.878   0.736  1.00102.45      A16S
ATOM  26313  C2* U   A1247     255.680 148.867  -1.127  1.00 72.37      A16S
ATOM  26314  O2* U   A1247     255.569 149.886  -2.104  1.00 72.37      A16S
ATOM  26315  C3* U   A1247     256.478 149.307   0.093  1.00 72.37      A16S
ATOM  26316  O3* U   A1247     256.156 150.626   0.515  1.00 72.37      A16S
ATOM  26317  P   A   A1248     254.977 150.845   1.589  1.00104.19      A16S
ATOM  26318  O1P A   A1248     255.120 152.233   2.103  1.00 95.40      A16S
ATOM  26319  O2P A   A1248     254.969 149.702   2.545  1.00 95.40      A16S
ATOM  26320  O5* A   A1248     253.659 150.778   0.699  1.00104.19      A16S
ATOM  26321  C5* A   A1248     253.483 151.711  -0.378  1.00104.19      A16S
ATOM  26322  C4* A   A1248     252.124 151.553  -1.018  1.00104.19      A16S
ATOM  26323  O4* A   A1248     252.075 150.379  -1.866  1.00104.19      A16S
ATOM  26324  C1* A   A1248     250.742 149.903  -1.930  1.00104.19      A16S
ATOM  26325  N9  A   A1248     250.727 148.508  -1.494  1.00 95.40      A16S
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ATOM  26326  C4   A   A1248     249.894 147.517  -1.960  1.00 95.40      A16S
ATOM  26327  N3   A   A1248     248.940 147.628  -2.901  1.00 95.40      A16S
ATOM  26328  C2   A   A1248     248.330 146.462  -3.087  1.00 95.40      A16S
ATOM  26329  N1   A   A1248     248.550 145.281  -2.487  1.00 95.40      A16S
ATOM  26330  C6   A   A1248     249.518 145.203  -1.545  1.00 95.40      A16S
ATOM  26331  N6   A   A1248     249.745 144.025  -0.948  1.00 95.40      A16S
ATOM  26332  C5   A   A1248     250.234 146.374  -1.252  1.00 95.40      A16S
ATOM  26333  N7   A   A1248     251.261 146.638  -0.356  1.00 95.40      A16S
ATOM  26334  C8   A   A1248     251.519 147.912  -0.540  1.00 95.40      A16S
ATOM  26335  C2*  A   A1248     249.883 150.805  -1.040  1.00104.19      A16S
ATOM  26336  O2*  A   A1248     249.253 151.798  -1.823  1.00104.19      A16S
ATOM  26337  C3*  A   A1248     250.921 151.415  -0.108  1.00104.19      A16S
ATOM  26338  O3*  A   A1248     250.485 152.674   0.375  1.00104.19      A16S
ATOM  26339  P    C   A1249     249.246 152.742   1.392  1.00 77.79      A16S
ATOM  26340  O1P  C   A1249     249.194 154.101   1.992  1.00 68.15      A16S
ATOM  26341  O2P  C   A1249     249.276 151.545   2.287  1.00 68.15      A16S
ATOM  26342  O5*  C   A1249     247.979 152.632   0.444  1.00 77.79      A16S
ATOM  26343  C5*  C   A1249     246.713 152.325   1.007  1.00 77.79      A16S
ATOM  26344  C4*  C   A1249     245.631 152.421  -0.026  1.00 77.79      A16S
ATOM  26345  O4*  C   A1249     246.020 151.705  -1.225  1.00 77.79      A16S
ATOM  26346  C1*  C   A1249     245.009 150.774  -1.572  1.00 77.79      A16S
ATOM  26347  N1   C   A1249     245.471 149.440  -1.135  1.00 68.15      A16S
ATOM  26348  C6   C   A1249     246.561 149.314  -0.315  1.00 68.15      A16S
ATOM  26349  C2   C   A1249     244.771 148.307  -1.547  1.00 68.15      A16S
ATOM  26350  O2   C   A1249     243.803 148.440  -2.318  1.00 68.15      A16S
ATOM  26351  N3   C   A1249     245.167 147.094  -1.097  1.00 68.15      A16S
ATOM  26352  C4   C   A1249     246.219 146.990  -0.284  1.00 68.15      A16S
ATOM  26353  N4   C   A1249     246.562 145.774   0.148  1.00 68.15      A16S
ATOM  26354  C5   C   A1249     246.962 148.124   0.127  1.00 68.15      A16S
ATOM  26355  C2*  C   A1249     243.753 151.190  -0.799  1.00 77.79      A16S
ATOM  26356  O2*  C   A1249     242.996 152.152  -1.502  1.00 77.79      A16S
ATOM  26357  C3*  C   A1249     244.375 151.738   0.470  1.00 77.79      A16S
ATOM  26358  O3*  C   A1249     243.576 152.621   1.220  1.00 77.79      A16S
ATOM  26359  P    A   A1250     243.320 152.308   2.773  1.00 88.07      A16S
ATOM  26360  O1P  A   A1250     242.748 153.552   3.344  1.00 55.21      A16S
ATOM  26361  O2P  A   A1250     244.550 151.718   3.372  1.00 55.21      A16S
ATOM  26362  O5*  A   A1250     242.210 151.162   2.758  1.00 88.07      A16S
ATOM  26363  C5*  A   A1250     241.433 150.935   1.578  1.00 88.07      A16S
ATOM  26364  C4*  A   A1250     240.317 149.953   1.826  1.00 88.07      A16S
ATOM  26365  O4*  A   A1250     240.787 148.584   1.786  1.00 88.07      A16S
ATOM  26366  C1*  A   A1250     239.785 147.759   2.347  1.00 88.07      A16S
ATOM  26367  N9   A   A1250     240.377 146.743   3.223  1.00 55.21      A16S
ATOM  26368  C4   A   A1250     239.944 145.439   3.308  1.00 55.21      A16S
ATOM  26369  N3   A   A1250     238.963 144.867   2.600  1.00 55.21      A16S
ATOM  26370  C2   A   A1250     238.816 143.595   2.946  1.00 55.21      A16S
ATOM  26371  N1   A   A1250     239.477 142.877   3.864  1.00 55.21      A16S
ATOM  26372  C6   A   A1250     240.441 143.478   4.574  1.00 55.21      A16S
ATOM  26373  N6   A   A1250     241.058 142.758   5.515  1.00 55.21      A16S
ATOM  26374  C5   A   A1250     240.718 144.840   4.280  1.00 55.21      A16S
ATOM  26375  N7   A   A1250     241.643 145.742   4.786  1.00 55.21      A16S
ATOM  26376  C8   A   A1250     241.402 146.852   4.123  1.00 55.21      A16S
ATOM  26377  C2*  A   A1250     238.789 148.671   3.063  1.00 88.07      A16S
ATOM  26378  O2*  A   A1250     237.635 148.754   2.249  1.00 88.07      A16S
ATOM  26379  C3*  A   A1250     239.546 149.998   3.126  1.00 88.07      A16S
ATOM  26380  O3*  A   A1250     238.650 151.100   3.225  1.00 88.07      A16S
ATOM  26381  P    A   A1251     238.021 151.494   4.668  1.00 81.81      A16S
ATOM  26382  O1P  A   A1251     237.313 152.800   4.511  1.00 47.33      A16S
ATOM  26383  O2P  A   A1251     239.039 151.321   5.748  1.00 47.33      A16S
ATOM  26384  O5*  A   A1251     236.906 150.390   4.933  1.00 81.81      A16S
ATOM  26385  C5*  A   A1251     235.775 150.287   4.063  1.00 81.81      A16S
ATOM  26386  C4*  A   A1251     235.095 148.961   4.242  1.00 81.81      A16S
ATOM  26387  O4*  A   A1251     236.046 147.899   4.012  1.00 81.81      A16S
ATOM  26388  C1*  A   A1251     235.727 146.798   4.828  1.00 81.81      A16S
ATOM  26389  N9   A   A1251     236.888 146.487   5.658  1.00 47.33      A16S
ATOM  26390  C4   A   A1251     237.237 145.238   6.116  1.00 47.33      A16S
ATOM  26391  N3   A   A1251     236.595 144.077   5.895  1.00 47.33      A16S
ATOM  26392  C2   A   A1251     237.232 143.068   6.493  1.00 47.33      A16S
ATOM  26393  N1   A   A1251     238.347 143.087   7.231  1.00 47.33      A16S
ATOM  26394  C6   A   A1251     238.959 144.268   7.437  1.00 47.33      A16S
ATOM  26395  N6   A   A1251     240.059 144.286   8.179  1.00 47.33      A16S
ATOM  26396  C5   A   A1251     238.391 145.414   6.853  1.00 47.33      A16S
ATOM  26397  N7   A   A1251     238.767 146.748   6.860  1.00 47.33      A16S
ATOM  26398  C8   A   A1251     237.843 147.340   6.141  1.00 47.33      A16S
ATOM  26399  C2*  A   A1251     234.465 147.155   5.614  1.00 81.81      A16S
ATOM  26400  O2*  A   A1251     233.359 146.712   4.858  1.00 81.81      A16S
ATOM  26401  C3*  A   A1251     234.509 148.674   5.610  1.00 81.81      A16S
ATOM  26402  O3*  A   A1251     233.199 149.239   5.702  1.00 81.81      A16S
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ATOM	26403	P	A	A1252	232.621	149.708	7.131	1.00	81.57	A16S
ATOM	26404	O1P	A	A1252	231.368	150.460	6.865	1.00	53.94	A16S
ATOM	26405	O2P	A	A1252	233.703	150.341	7.915	1.00	53.94	A16S
ATOM	26406	O5*	A	A1252	232.255	148.348	7.870	1.00	81.57	A16S
ATOM	26407	C5*	A	A1252	231.252	147.473	7.337	1.00	81.57	A16S
ATOM	26408	C4*	A	A1252	231.405	146.089	7.915	1.00	81.57	A16S
ATOM	26409	O4*	A	A1252	232.708	145.560	7.574	1.00	81.57	A16S
ATOM	26410	C1*	A	A1252	233.190	144.758	8.631	1.00	81.57	A16S
ATOM	26411	N9	A	A1252	234.485	145.289	9.044	1.00	53.94	A16S
ATOM	26412	C4	A	A1252	235.522	144.562	9.585	1.00	53.94	A16S
ATOM	26413	N3	A	A1252	235.540	143.243	9.876	1.00	53.94	A16S
ATOM	26414	C2	A	A1252	236.725	142.884	10.363	1.00	53.94	A16S
ATOM	26415	N1	A	A1252	237.814	143.633	10.570	1.00	53.94	A16S
ATOM	26416	C6	A	A1252	237.760	144.949	10.262	1.00	53.94	A16S
ATOM	26417	N6	A	A1252	238.846	145.694	10.444	1.00	53.94	A16S
ATOM	26418	C5	A	A1252	236.557	145.458	9.752	1.00	53.94	A16S
ATOM	26419	N7	A	A1252	236.175	146.733	9.353	1.00	53.94	A16S
ATOM	26420	C8	A	A1252	234.940	146.582	8.950	1.00	53.94	A16S
ATOM	26421	C2*	A	A1252	232.136	144.741	9.735	1.00	81.57	A16S
ATOM	26422	O2*	A	A1252	231.367	143.561	9.610	1.00	81.57	A16S
ATOM	26423	C3*	A	A1252	231.345	146.007	9.426	1.00	81.57	A16S
ATOM	26424	O3*	A	A1252	229.996	145.923	9.849	1.00	81.57	A16S
ATOM	26425	P	G	A1253	229.650	146.054	11.407	1.00	70.88	A16S
ATOM	26426	O1P	G	A1253	228.174	145.888	11.510	1.00	52.32	A16S
ATOM	26427	O2P	G	A1253	230.298	147.281	11.942	1.00	52.32	A16S
ATOM	26428	O5*	G	A1253	230.339	144.767	12.031	1.00	70.88	A16S
ATOM	26429	C5*	G	A1253	230.901	144.774	13.335	1.00	70.88	A16S
ATOM	26430	C4*	G	A1253	231.746	143.550	13.489	1.00	70.88	A16S
ATOM	26431	O4*	G	A1253	232.871	143.644	12.585	1.00	70.88	A16S
ATOM	26432	C1*	G	A1253	233.994	142.989	13.157	1.00	70.88	A16S
ATOM	26433	N9	G	A1253	235.078	143.961	13.312	1.00	52.32	A16S
ATOM	26434	C4	G	A1253	236.326	143.712	13.837	1.00	52.32	A16S
ATOM	26435	N3	G	A1253	236.769	142.526	14.299	1.00	52.32	A16S
ATOM	26436	C2	G	A1253	237.997	142.607	14.762	1.00	52.32	A16S
ATOM	26437	N2	G	A1253	238.582	141.531	15.287	1.00	52.32	A16S
ATOM	26438	N1	G	A1253	238.741	143.752	14.757	1.00	52.32	A16S
ATOM	26439	C6	G	A1253	238.308	144.984	14.285	1.00	52.32	A16S
ATOM	26440	O6	G	A1253	239.061	145.962	14.333	1.00	52.32	A16S
ATOM	26441	C5	G	A1253	236.985	144.917	13.797	1.00	52.32	A16S
ATOM	26442	N7	G	A1253	236.175	145.908	13.255	1.00	52.32	A16S
ATOM	26443	C8	G	A1253	235.058	145.296	12.978	1.00	52.32	A16S
ATOM	26444	C2*	G	A1253	233.547	142.400	14.497	1.00	70.88	A16S
ATOM	26445	O2*	G	A1253	233.147	141.051	14.323	1.00	70.88	A16S
ATOM	26446	C3*	G	A1253	232.375	143.305	14.843	1.00	70.88	A16S
ATOM	26447	O3*	G	A1253	231.465	142.674	15.712	1.00	70.88	A16S
ATOM	26448	P	C	A1254	231.222	143.292	17.161	1.00	70.81	A16S
ATOM	26449	O1P	C	A1254	229.917	142.780	17.615	1.00	57.66	A16S
ATOM	26450	O2P	C	A1254	231.442	144.754	17.046	1.00	57.66	A16S
ATOM	26451	O5*	C	A1254	232.351	142.625	18.058	1.00	70.81	A16S
ATOM	26452	C5*	C	A1254	232.441	141.197	18.156	1.00	70.81	A16S
ATOM	26453	C4*	C	A1254	233.867	140.778	18.422	1.00	70.81	A16S
ATOM	26454	O4*	C	A1254	234.730	141.243	17.349	1.00	70.81	A16S
ATOM	26455	C1*	C	A1254	236.001	141.592	17.876	1.00	70.81	A16S
ATOM	26456	N1	C	A1254	236.251	143.013	17.599	1.00	57.66	A16S
ATOM	26457	C6	C	A1254	235.232	143.856	17.246	1.00	57.66	A16S
ATOM	26458	C2	C	A1254	237.556	143.490	17.703	1.00	57.66	A16S
ATOM	26459	O2	C	A1254	238.455	142.699	18.029	1.00	57.66	A16S
ATOM	26460	N3	C	A1254	237.804	144.797	17.441	1.00	57.66	A16S
ATOM	26461	C4	C	A1254	236.801	145.608	17.083	1.00	57.66	A16S
ATOM	26462	N4	C	A1254	237.086	146.883	16.814	1.00	57.66	A16S
ATOM	26463	C5	C	A1254	235.462	145.146	16.980	1.00	57.66	A16S
ATOM	26464	C2*	C	A1254	235.989	141.299	19.373	1.00	70.81	A16S
ATOM	26465	O2*	C	A1254	236.584	140.036	19.598	1.00	70.81	A16S
ATOM	26466	C3*	C	A1254	234.495	141.355	19.678	1.00	70.81	A16S
ATOM	26467	O3*	C	A1254	234.122	140.616	20.827	1.00	70.81	A16S
ATOM	26468	P	G	A1255	233.724	141.402	22.167	1.00	75.76	A16S
ATOM	26469	O1P	G	A1255	232.824	140.515	22.962	1.00	57.25	A16S
ATOM	26470	O2P	G	A1255	233.267	142.771	21.783	1.00	57.25	A16S
ATOM	26471	O5*	G	A1255	235.108	141.522	22.940	1.00	75.76	A16S
ATOM	26472	C5*	G	A1255	235.812	140.343	23.354	1.00	75.76	A16S
ATOM	26473	C4*	G	A1255	237.230	140.691	23.706	1.00	75.76	A16S
ATOM	26474	O4*	G	A1255	237.879	141.242	22.535	1.00	75.76	A16S
ATOM	26475	C1*	G	A1255	238.776	142.259	22.922	1.00	75.76	A16S
ATOM	26476	N9	G	A1255	238.384	143.492	22.251	1.00	57.25	A16S
ATOM	26477	C4	G	A1255	239.159	144.615	22.099	1.00	57.25	A16S
ATOM	26478	N3	G	A1255	240.418	144.774	22.552	1.00	57.25	A16S
ATOM	26479	C2	G	A1255	240.900	145.968	22.257	1.00	57.25	A16S

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ATOM  26480  N2  G  A1255     242.137 146.303  22.645  1.00 57.25      A16S
ATOM  26481  N1  G  A1255     240.205 146.925  21.566  1.00 57.25      A16S
ATOM  26482  C6  G  A1255     238.905 146.786  21.099  1.00 57.25      A16S
ATOM  26483  O6  G  A1255     238.361 147.724  20.508  1.00 57.25      A16S
ATOM  26484  C5  G  A1255     238.375 145.511  21.407  1.00 57.25      A16S
ATOM  26485  N7  G  A1255     237.130 144.965  21.130  1.00 57.25      A16S
ATOM  26486  C8  G  A1255     237.181 143.768  21.649  1.00 57.25      A16S
ATOM  26487  C2* G  A1255     238.742 142.358  24.447  1.00 75.76      A16S
ATOM  26488  O2* G  A1255     239.792 141.579  24.974  1.00 75.76      A16S
ATOM  26489  C3* G  A1255     237.378 141.763  24.770  1.00 75.76      A16S
ATOM  26490  O3* G  A1255     237.331 141.197  26.077  1.00 75.76      A16S
ATOM  26491  P   A  A1256     236.256 141.741  27.142  1.00129.84      A16S
ATOM  26492  O1P A  A1256     234.934 141.190  26.756  1.00151.10      A16S
ATOM  26493  O2P A  A1256     236.427 143.210  27.261  1.00151.10      A16S
ATOM  26494  O5* A  A1256     236.690 141.073  28.527  1.00129.84      A16S
ATOM  26495  C5* A  A1256     237.618 139.959  28.573  1.00129.84      A16S
ATOM  26496  C4* A  A1256     238.616 140.145  29.704  1.00129.84      A16S
ATOM  26497  O4* A  A1256     239.262 141.428  29.550  1.00129.84      A16S
ATOM  26498  C1* A  A1256     239.558 141.964  30.819  1.00129.84      A16S
ATOM  26499  N9  A  A1256     239.106 143.351  30.838  1.00151.10      A16S
ATOM  26500  C4  A  A1256     239.923 144.452  30.899  1.00151.10      A16S
ATOM  26501  N3  A  A1256     241.266 144.470  30.969  1.00151.10      A16S
ATOM  26502  C2  A  A1256     241.718 145.721  31.014  1.00151.10      A16S
ATOM  26503  N1  A  A1256     241.032 146.869  31.003  1.00151.10      A16S
ATOM  26504  C6  A  A1256     239.682 146.814  30.936  1.00151.10      A16S
ATOM  26505  N6  A  A1256     238.991 147.958  30.936  1.00151.10      A16S
ATOM  26506  C5  A  A1256     239.081 145.546  30.875  1.00151.10      A16S
ATOM  26507  N7  A  A1256     237.755 145.143  30.799  1.00151.10      A16S
ATOM  26508  C8  A  A1256     237.824 143.836  30.784  1.00151.10      A16S
ATOM  26509  C2* A  A1256     239.004 141.034  31.904  1.00129.84      A16S
ATOM  26510  O2* A  A1256     240.075 140.335  32.495  1.00129.84      A16S
ATOM  26511  C3* A  A1256     238.048 140.134  31.118  1.00129.84      A16S
ATOM  26512  O3* A  A1256     238.137 138.793  31.599  1.00129.84      A16S
ATOM  26513  P   U  A1257     237.058 138.229  32.648  1.00201.30      A16S
ATOM  26514  O1P U  A1257     236.191 137.276  31.907  1.00201.30      A16S
ATOM  26515  O2P U  A1257     236.445 139.379  33.366  1.00201.30      A16S
ATOM  26516  O5* U  A1257     237.935 137.393  33.689  1.00201.30      A16S
ATOM  26517  C5* U  A1257     239.073 136.621  33.250  1.00201.30      A16S
ATOM  26518  C4* U  A1257     240.301 137.500  33.201  1.00201.30      A16S
ATOM  26519  O4* U  A1257     240.724 137.856  34.543  1.00201.30      A16S
ATOM  26520  C1* U  A1257     242.121 138.101  34.544  1.00201.30      A16S
ATOM  26521  N1  U  A1257     242.757 137.345  35.635  1.00201.30      A16S
ATOM  26522  C6  U  A1257     242.671 135.970  35.712  1.00201.30      A16S
ATOM  26523  C2  U  A1257     243.468 138.068  36.585  1.00201.30      A16S
ATOM  26524  O2  U  A1257     243.555 139.289  36.570  1.00201.30      A16S
ATOM  26525  N3  U  A1257     244.074 137.309  37.555  1.00201.30      A16S
ATOM  26526  C4  U  A1257     244.041 135.936  37.680  1.00201.30      A16S
ATOM  26527  O4  U  A1257     244.661 135.398  38.600  1.00201.30      A16S
ATOM  26528  C5  U  A1257     243.273 135.261  36.674  1.00201.30      A16S
ATOM  26529  C2* U  A1257     242.669 137.759  33.156  1.00201.30      A16S
ATOM  26530  O2* U  A1257     242.894 138.958  32.438  1.00201.30      A16S
ATOM  26531  C3* U  A1257     241.547 136.899  32.574  1.00201.30      A16S
ATOM  26532  O3* U  A1257     241.494 137.016  31.162  1.00201.30      A16S
ATOM  26533  P   G  A1258     241.673 135.710  30.248  1.00117.27      A16S
ATOM  26534  O1P G  A1258     240.473 134.852  30.489  1.00 84.42      A16S
ATOM  26535  O2P G  A1258     243.039 135.147  30.468  1.00 84.42      A16S
ATOM  26536  O5* G  A1258     241.597 136.297  28.770  1.00117.27      A16S
ATOM  26537  C5* G  A1258     240.394 136.175  28.002  1.00117.27      A16S
ATOM  26538  C4* G  A1258     240.281 137.299  27.004  1.00117.27      A16S
ATOM  26539  O4* G  A1258     240.014 138.552  27.680  1.00117.27      A16S
ATOM  26540  C1* G  A1258     240.573 139.619  26.937  1.00117.27      A16S
ATOM  26541  N9  G  A1258     241.531 140.333  27.778  1.00 84.42      A16S
ATOM  26542  C4  G  A1258     241.818 141.678  27.724  1.00 84.42      A16S
ATOM  26543  N3  G  A1258     241.235 142.580  26.910  1.00 84.42      A16S
ATOM  26544  C2  G  A1258     241.736 143.789  27.069  1.00 84.42      A16S
ATOM  26545  N2  G  A1258     241.265 144.805  26.334  1.00 84.42      A16S
ATOM  26546  N1  G  A1258     242.736 144.091  27.956  1.00 84.42      A16S
ATOM  26547  C6  G  A1258     243.356 143.180  28.805  1.00 84.42      A16S
ATOM  26548  O6  G  A1258     244.266 143.557  29.560  1.00 84.42      A16S
ATOM  26549  C5  G  A1258     242.819 141.876  28.650  1.00 84.42      A16S
ATOM  26550  N7  G  A1258     243.139 140.687  29.294  1.00 84.42      A16S
ATOM  26551  C8  G  A1258     242.347 139.802  28.751  1.00 84.42      A16S
ATOM  26552  C2* G  A1258     241.240 139.020  25.698  1.00117.27      A16S
ATOM  26553  O2* G  A1258     240.333 139.092  24.619  1.00117.27      A16S
ATOM  26554  C3* G  A1258     241.499 137.586  26.146  1.00117.27      A16S
ATOM  26555  O3* G  A1258     241.615 136.673  25.059  1.00117.27      A16S
ATOM  26556  P   C  A1259     243.040 136.472  24.338  1.00 77.47      A16S
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ATOM  26557  O1P C   A1259     242.936 135.270  23.467  1.00 83.97      A16S
ATOM  26558  O2P C   A1259     244.116 136.537  25.365  1.00 83.97      A16S
ATOM  26559  O5* C   A1259     243.139 137.751  23.397  1.00 77.47      A16S
ATOM  26560  C5* C   A1259     242.136 137.969  22.397  1.00 77.47      A16S
ATOM  26561  C4* C   A1259     242.317 139.311  21.746  1.00 77.47      A16S
ATOM  26562  O4* C   A1259     241.970 140.376  22.663  1.00 77.47      A16S
ATOM  26563  C1* C   A1259     242.809 141.494  22.433  1.00 77.47      A16S
ATOM  26564  N1   C   A1259     243.546 141.771  23.675  1.00 83.97      A16S
ATOM  26565  C6   C   A1259     244.022 140.746  24.446  1.00 83.97      A16S
ATOM  26566  C2   C   A1259     243.758 143.101  24.058  1.00 83.97      A16S
ATOM  26567  O2   C   A1259     243.315 144.016  23.347  1.00 83.97      A16S
ATOM  26568  N3   C   A1259     244.442 143.355  25.191  1.00 83.97      A16S
ATOM  26569  C4   C   A1259     244.905 142.347  25.931  1.00 83.97      A16S
ATOM  26570  N4   C   A1259     245.583 142.647  27.038  1.00 83.97      A16S
ATOM  26571  C5   C   A1259     244.699 140.986  25.567  1.00 83.97      A16S
ATOM  26572  C2* C   A1259     243.736 141.151  21.263  1.00 77.47      A16S
ATOM  26573  O2* C   A1259     243.217 141.706  20.066  1.00 77.47      A16S
ATOM  26574  C3* C   A1259     243.728 139.626  21.306  1.00 77.47      A16S
ATOM  26575  O3* C   A1259     244.022 139.009  20.072  1.00 77.47      A16S
ATOM  26576  P    C   A1260     245.477 138.405  19.841  1.00 94.05      A16S
ATOM  26577  O1P C   A1260     245.566 137.940  18.438  1.00101.37      A16S
ATOM  26578  O2P C   A1260     245.741 137.451  20.951  1.00101.37      A16S
ATOM  26579  O5* C   A1260     246.388 139.701  19.996  1.00 94.05      A16S
ATOM  26580  C5* C   A1260     247.765 139.621  20.394  1.00 94.05      A16S
ATOM  26581  C4* C   A1260     248.201 140.950  20.959  1.00 94.05      A16S
ATOM  26582  O4* C   A1260     247.461 141.215  22.179  1.00 94.05      A16S
ATOM  26583  C1* C   A1260     248.292 141.883  23.108  1.00 94.05      A16S
ATOM  26584  N1   C   A1260     248.470 141.001  24.277  1.00101.37      A16S
ATOM  26585  C6   C   A1260     248.697 139.661  24.116  1.00101.37      A16S
ATOM  26586  C2   C   A1260     248.405 141.554  25.562  1.00101.37      A16S
ATOM  26587  O2   C   A1260     248.199 142.772  25.686  1.00101.37      A16S
ATOM  26588  N3   C   A1260     248.565 140.746  26.637  1.00101.37      A16S
ATOM  26589  C4   C   A1260     248.778 139.440  26.465  1.00101.37      A16S
ATOM  26590  N4   C   A1260     248.916 138.680  27.553  1.00101.37      A16S
ATOM  26591  C5   C   A1260     248.855 138.853  25.171  1.00101.37      A16S
ATOM  26592  C2* C   A1260     249.611 142.185  22.399  1.00 94.05      A16S
ATOM  26593  O2* C   A1260     249.515 143.453  21.781  1.00 94.05      A16S
ATOM  26594  C3* C   A1260     249.658 141.069  21.366  1.00 94.05      A16S
ATOM  26595  O3* C   A1260     250.471 141.401  20.254  1.00 94.05      A16S
ATOM  26596  P    A   A1261     252.061 141.529  20.438  1.00 85.73      A16S
ATOM  26597  O1P A   A1261     252.687 140.919  19.233  1.00 80.19      A16S
ATOM  26598  O2P A   A1261     252.427 141.013  21.787  1.00 80.19      A16S
ATOM  26599  O5* A   A1261     252.290 143.106  20.384  1.00 85.73      A16S
ATOM  26600  C5* A   A1261     251.570 143.910  19.421  1.00 85.73      A16S
ATOM  26601  C4* A   A1261     251.866 145.380  19.614  1.00 85.73      A16S
ATOM  26602  O4* A   A1261     251.399 145.795  20.918  1.00 85.73      A16S
ATOM  26603  C1* A   A1261     252.291 146.749  21.465  1.00 85.73      A16S
ATOM  26604  N9   A   A1261     252.837 146.203  22.708  1.00 80.19      A16S
ATOM  26605  C4   A   A1261     253.744 146.816  23.531  1.00 80.19      A16S
ATOM  26606  N3   A   A1261     254.324 148.010  23.349  1.00 80.19      A16S
ATOM  26607  C2   A   A1261     255.137 148.291  24.361  1.00 80.19      A16S
ATOM  26608  N1   A   A1261     255.415 147.567  25.453  1.00 80.19      A16S
ATOM  26609  C6   A   A1261     254.812 146.369  25.603  1.00 80.19      A16S
ATOM  26610  N6   A   A1261     255.081 145.648  26.694  1.00 80.19      A16S
ATOM  26611  C5   A   A1261     253.931 145.955  24.596  1.00 80.19      A16S
ATOM  26612  N7   A   A1261     253.169 144.808  24.440  1.00 80.19      A16S
ATOM  26613  C8   A   A1261     252.544 145.001  23.307  1.00 80.19      A16S
ATOM  26614  C2* A   A1261     253.358 147.053  20.415  1.00 85.73      A16S
ATOM  26615  O2* A   A1261     252.968 148.215  19.714  1.00 85.73      A16S
ATOM  26616  C3* A   A1261     253.332 145.782  19.572  1.00 85.73      A16S
ATOM  26617  O3* A   A1261     253.765 146.015  18.235  1.00 85.73      A16S
ATOM  26618  P    C   A1262     255.175 145.421  17.741  1.00125.17      A16S
ATOM  26619  O1P C   A1262     255.499 146.110  16.460  1.00 99.64      A16S
ATOM  26620  O2P C   A1262     255.126 143.938  17.789  1.00 99.64      A16S
ATOM  26621  O5* C   A1262     256.210 145.871  18.866  1.00125.17      A16S
ATOM  26622  C5* C   A1262     256.689 147.230  18.955  1.00125.17      A16S
ATOM  26623  C4* C   A1262     257.573 147.390  20.173  1.00125.17      A16S
ATOM  26624  O4* C   A1262     256.773 147.220  21.372  1.00125.17      A16S
ATOM  26625  C1* C   A1262     257.534 146.550  22.361  1.00125.17      A16S
ATOM  26626  N1   C   A1262     256.832 145.313  22.742  1.00 99.64      A16S
ATOM  26627  C6   C   A1262     255.845 144.787  21.953  1.00 99.64      A16S
ATOM  26628  C2   C   A1262     257.192 144.677  23.941  1.00 99.64      A16S
ATOM  26629  O2   C   A1262     258.102 145.162  24.633  1.00 99.64      A16S
ATOM  26630  N3   C   A1262     256.547 143.551  24.311  1.00 99.64      A16S
ATOM  26631  C4   C   A1262     255.584 143.052  23.538  1.00 99.64      A16S
ATOM  26632  N4   C   A1262     254.971 141.944  23.952  1.00 99.64      A16S
ATOM  26633  C5   C   A1262     255.204 143.669  22.307  1.00 99.64      A16S
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ATOM  26634  C2* C   A1262     258.937 146.300  21.803  1.00125.17      A16S
ATOM  26635  O2* C   A1262     259.821 147.295  22.275  1.00125.17      A16S
ATOM  26636  C3* C   A1262     258.693 146.364  20.300  1.00125.17      A16S
ATOM  26637  O3* C   A1262     259.855 146.760  19.578  1.00125.17      A16S
ATOM  26638  P   C   A1263     260.928 145.652  19.125  1.00109.61      A16S
ATOM  26639  O1P C   A1263     261.969 146.380  18.358  1.00122.82      A16S
ATOM  26640  O2P C   A1263     260.225 144.503  18.499  1.00122.82      A16S
ATOM  26641  O5* C   A1263     261.561 145.138  20.493  1.00109.61      A16S
ATOM  26642  C5* C   A1263     262.456 145.973  21.252  1.00109.61      A16S
ATOM  26643  C4* C   A1263     262.957 145.238  22.473  1.00109.61      A16S
ATOM  26644  O4* C   A1263     261.861 144.995  23.388  1.00109.61      A16S
ATOM  26645  C1* C   A1263     262.056 143.756  24.042  1.00109.61      A16S
ATOM  26646  N1  C   A1263     260.887 142.901  23.789  1.00122.82      A16S
ATOM  26647  C6  C   A1263     260.044 143.149  22.741  1.00122.82      A16S
ATOM  26648  C2  C   A1263     260.645 141.826  24.649  1.00122.82      A16S
ATOM  26649  O2  C   A1263     261.435 141.613  25.581  1.00122.82      A16S
ATOM  26650  N3  C   A1263     259.561 141.044  24.440  1.00122.82      A16S
ATOM  26651  C4  C   A1263     258.741 141.300  23.418  1.00122.82      A16S
ATOM  26652  N4  C   A1263     257.681 140.507  23.253  1.00122.82      A16S
ATOM  26653  C5  C   A1263     258.971 142.381  22.520  1.00122.82      A16S
ATOM  26654  C2* C   A1263     263.368 143.152  23.541  1.00109.61      A16S
ATOM  26655  O2* C   A1263     264.401 143.435  24.460  1.00109.61      A16S
ATOM  26656  C3* C   A1263     263.555 143.869  22.212  1.00109.61      A16S
ATOM  26657  O3* C   A1263     264.922 143.974  21.868  1.00109.61      A16S
ATOM  26658  P   C   A1264     265.605 142.818  20.991  1.00 72.09      A16S
ATOM  26659  O1P C   A1264     266.989 143.261  20.681  1.00157.08      A16S
ATOM  26660  O2P C   A1264     264.679 142.479  19.881  1.00157.08      A16S
ATOM  26661  O5* C   A1264     265.686 141.572  21.982  1.00 72.09      A16S
ATOM  26662  C5* C   A1264     266.428 141.657  23.205  1.00 72.09      A16S
ATOM  26663  C4* C   A1264     266.093 140.498  24.109  1.00 72.09      A16S
ATOM  26664  O4* C   A1264     264.714 140.581  24.549  1.00 72.09      A16S
ATOM  26665  C1* C   A1264     264.196 139.272  24.730  1.00 72.09      A16S
ATOM  26666  N1  C   A1264     262.980 139.115  23.905  1.00157.08      A16S
ATOM  26667  C6  C   A1264     262.753 139.920  22.822  1.00157.08      A16S
ATOM  26668  C2  C   A1264     262.056 138.116  24.245  1.00157.08      A16S
ATOM  26669  O2  C   A1264     262.273 137.406  25.239  1.00157.08      A16S
ATOM  26670  N3  C   A1264     260.951 137.950  23.482  1.00157.08      A16S
ATOM  26671  C4  C   A1264     260.747 138.734  22.422  1.00157.08      A16S
ATOM  26672  N4  C   A1264     259.649 138.524  21.689  1.00157.08      A16S
ATOM  26673  C5  C   A1264     261.660 139.767  22.062  1.00157.08      A16S
ATOM  26674  C2* C   A1264     265.308 138.275  24.387  1.00 72.09      A16S
ATOM  26675  O2* C   A1264     265.951 137.866  25.576  1.00 72.09      A16S
ATOM  26676  C3* C   A1264     266.220 139.114  23.500  1.00 72.09      A16S
ATOM  26677  O3* C   A1264     267.564 138.668  23.541  1.00 72.09      A16S
ATOM  26678  P   G   A1265     268.146 137.780  22.337  1.00 93.73      A16S
ATOM  26679  O1P G   A1265     269.624 137.825  22.443  1.00 98.71      A16S
ATOM  26680  O2P G   A1265     267.492 138.190  21.069  1.00 98.71      A16S
ATOM  26681  O5* G   A1265     267.683 136.305  22.702  1.00 93.73      A16S
ATOM  26682  C5* G   A1265     268.272 135.620  23.815  1.00 93.73      A16S
ATOM  26683  C4* G   A1265     267.615 134.282  24.005  1.00 93.73      A16S
ATOM  26684  O4* G   A1265     266.272 134.463  24.516  1.00 93.73      A16S
ATOM  26685  C1* G   A1265     265.411 133.485  23.956  1.00 93.73      A16S
ATOM  26686  N9  G   A1265     264.344 134.172  23.229  1.00 98.71      A16S
ATOM  26687  C4  G   A1265     263.083 133.684  22.980  1.00 98.71      A16S
ATOM  26688  N3  G   A1265     262.616 132.475  23.352  1.00 98.71      A16S
ATOM  26689  C2  G   A1265     261.365 132.292  22.976  1.00 98.71      A16S
ATOM  26690  N2  G   A1265     260.753 131.132  23.261  1.00 98.71      A16S
ATOM  26691  N1  G   A1265     260.624 133.231  22.293  1.00 98.71      A16S
ATOM  26692  C6  G   A1265     261.084 134.485  21.903  1.00 98.71      A16S
ATOM  26693  O6  G   A1265     260.330 135.259  21.298  1.00 98.71      A16S
ATOM  26694  C5  G   A1265     262.430 134.687  22.292  1.00 98.71      A16S
ATOM  26695  N7  G   A1265     263.266 135.778  22.099  1.00 98.71      A16S
ATOM  26696  C8  G   A1265     264.389 135.429  22.667  1.00 98.71      A16S
ATOM  26697  C2* G   A1265     266.260 132.573  23.069  1.00 93.73      A16S
ATOM  26698  O2* G   A1265     266.660 131.425  23.796  1.00 93.73      A16S
ATOM  26699  C3* G   A1265     267.430 133.485  22.730  1.00 93.73      A16S
ATOM  26700  O3* G   A1265     268.603 132.784  22.362  1.00 93.73      A16S
ATOM  26701  P   G   A1266     268.999 132.692  20.810  1.00104.96      A16S
ATOM  26702  O1P G   A1266     270.371 132.131  20.745  1.00 83.57      A16S
ATOM  26703  O2P G   A1266     268.703 134.014  20.171  1.00 83.57      A16S
ATOM  26704  O5* G   A1266     267.994 131.600  20.229  1.00104.96      A16S
ATOM  26705  C5* G   A1266     268.011 130.251  20.733  1.00104.96      A16S
ATOM  26706  C4* G   A1266     266.706 129.545  20.429  1.00104.96      A16S
ATOM  26707  O4* G   A1266     265.607 130.203  21.117  1.00104.96      A16S
ATOM  26708  C1* G   A1266     264.415 130.058  20.361  1.00104.96      A16S
ATOM  26709  N9  G   A1266     263.944 131.378  19.949  1.00 83.57      A16S
ATOM  26710  C4  G   A1266     262.683 131.678  19.502  1.00 83.57      A16S
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ATOM  26711  N3  G  A1266     261.654 130.812  19.406  1.00 83.57      A16S
ATOM  26712  C2  G  A1266     260.576 131.383  18.898  1.00 83.57      A16S
ATOM  26713  N2  G  A1266     259.464 130.658  18.714  1.00 83.57      A16S
ATOM  26714  N1  G  A1266     260.509 132.702  18.527  1.00 83.57      A16S
ATOM  26715  C6  G  A1266     261.552 133.614  18.621  1.00 83.57      A16S
ATOM  26716  O6  G  A1266     261.382 134.784  18.254  1.00 83.57      A16S
ATOM  26717  C5  G  A1266     262.721 133.013  19.156  1.00 83.57      A16S
ATOM  26718  N7  G  A1266     263.975 133.550  19.407  1.00 83.57      A16S
ATOM  26719  C8  G  A1266     264.664 132.548  19.885  1.00 83.57      A16S
ATOM  26720  C2* G  A1266     264.761 129.217  19.133  1.00104.96      A16S
ATOM  26721  O2* G  A1266     264.506 127.854  19.417  1.00104.96      A16S
ATOM  26722  C3* G  A1266     266.248 129.500  18.979  1.00104.96      A16S
ATOM  26723  O3* G  A1266     266.904 128.500  18.215  1.00104.96      A16S
ATOM  26724  P   C  A1267     267.643 128.911  16.843  1.00101.67      A16S
ATOM  26725  O1P C  A1267     268.070 127.649  16.192  1.00 87.59      A16S
ATOM  26726  O2P C  A1267     268.649 129.975  17.117  1.00 87.59      A16S
ATOM  26727  O5* C  A1267     266.513 129.566  15.934  1.00101.67      A16S
ATOM  26728  C5* C  A1267     266.879 130.415  14.829  1.00101.67      A16S
ATOM  26729  C4* C  A1267     265.983 130.159  13.636  1.00101.67      A16S
ATOM  26730  O4* C  A1267     266.191 128.818  13.120  1.00101.67      A16S
ATOM  26731  C1* C  A1267     264.969 128.307  12.615  1.00101.67      A16S
ATOM  26732  N1  C  A1267     264.634 127.083  13.364  1.00 87.59      A16S
ATOM  26733  C6  C  A1267     264.984 126.947  14.678  1.00 87.59      A16S
ATOM  26734  C2  C  A1267     263.958 126.055  12.709  1.00 87.59      A16S
ATOM  26735  O2  C  A1267     263.636 126.207  11.525  1.00 87.59      A16S
ATOM  26736  N3  C  A1267     263.672 124.919  13.381  1.00 87.59      A16S
ATOM  26737  C4  C  A1267     264.032 124.792  14.657  1.00 87.59      A16S
ATOM  26738  N4  C  A1267     263.747 123.646  15.276  1.00 87.59      A16S
ATOM  26739  C5  C  A1267     264.706 125.830  15.354  1.00 87.59      A16S
ATOM  26740  C2* C  A1267     263.913 129.403  12.756  1.00101.67      A16S
ATOM  26741  O2* C  A1267     263.852 130.132  11.548  1.00101.67      A16S
ATOM  26742  C3* C  A1267     264.489 130.240  13.890  1.00101.67      A16S
ATOM  26743  O3* C  A1267     264.036 131.582  13.868  1.00101.67      A16S
ATOM  26744  P   A  A1268     263.169 132.132  15.098  1.00 76.64      A16S
ATOM  26745  O1P A  A1268     262.956 133.593  14.894  1.00 66.03      A16S
ATOM  26746  O2P A  A1268     263.803 131.648  16.351  1.00 66.03      A16S
ATOM  26747  O5* A  A1268     261.783 131.362  14.949  1.00 76.64      A16S
ATOM  26748  C5* A  A1268     261.014 131.437  13.723  1.00 76.64      A16S
ATOM  26749  C4* A  A1268     259.983 130.329  13.677  1.00 76.64      A16S
ATOM  26750  O4* A  A1268     260.661 129.053  13.757  1.00 76.64      A16S
ATOM  26751  C1* A  A1268     259.887 128.144  14.509  1.00 76.64      A16S
ATOM  26752  N9  A  A1268     260.717 127.674  15.612  1.00 66.03      A16S
ATOM  26753  C4  A  A1268     260.823 126.382  16.062  1.00 66.03      A16S
ATOM  26754  N3  A  A1268     260.178 125.301  15.595  1.00 66.03      A16S
ATOM  26755  C2  A  A1268     260.537 124.206  16.274  1.00 66.03      A16S
ATOM  26756  N1  A  A1268     261.403 124.081  17.294  1.00 66.03      A16S
ATOM  26757  C6  A  A1268     262.033 125.188  17.739  1.00 66.03      A16S
ATOM  26758  N6  A  A1268     262.895 125.061  18.751  1.00 66.03      A16S
ATOM  26759  C5  A  A1268     261.737 126.416  17.098  1.00 66.03      A16S
ATOM  26760  N7  A  A1268     262.192 127.710  17.300  1.00 66.03      A16S
ATOM  26761  C8  A  A1268     261.558 128.414  16.396  1.00 66.03      A16S
ATOM  26762  C2* A  A1268     258.591 128.845  14.921  1.00 76.64      A16S
ATOM  26763  O2* A  A1268     257.573 128.493  14.008  1.00 76.64      A16S
ATOM  26764  C3* A  A1268     258.979 130.315  14.817  1.00 76.64      A16S
ATOM  26765  O3* A  A1268     257.871 131.137  14.483  1.00 76.64      A16S
ATOM  26766  P   A  A1269     257.070 131.904  15.641  1.00 60.18      A16S
ATOM  26767  O1P A  A1269     256.386 133.064  14.997  1.00 59.54      A16S
ATOM  26768  O2P A  A1269     257.996 132.137  16.769  1.00 59.54      A16S
ATOM  26769  O5* A  A1269     256.003 130.837  16.155  1.00 60.18      A16S
ATOM  26770  C5* A  A1269     254.957 130.374  15.289  1.00 60.18      A16S
ATOM  26771  C4* A  A1269     254.412 129.057  15.779  1.00 60.18      A16S
ATOM  26772  O4* A  A1269     255.474 128.081  15.832  1.00 60.18      A16S
ATOM  26773  C1* A  A1269     255.257 127.200  16.914  1.00 60.18      A16S
ATOM  26774  N9  A  A1269     256.433 127.247  17.776  1.00 59.54      A16S
ATOM  26775  C4  A  A1269     257.077 126.172  18.341  1.00 59.54      A16S
ATOM  26776  N3  A  A1269     256.747 124.875  18.239  1.00 59.54      A16S
ATOM  26777  C2  A  A1269     257.617 124.115  18.896  1.00 59.54      A16S
ATOM  26778  N1  A  A1269     258.697 124.474  19.591  1.00 59.54      A16S
ATOM  26779  C6  A  A1269     259.000 125.787  19.673  1.00 59.54      A16S
ATOM  26780  N6  A  A1269     260.088 126.155  20.353  1.00 59.54      A16S
ATOM  26781  C5  A  A1269     258.152 126.696  19.025  1.00 59.54      A16S
ATOM  26782  N7  A  A1269     258.176 128.082  18.917  1.00 59.54      A16S
ATOM  26783  C8  A  A1269     257.136 128.358  18.171  1.00 59.54      A16S
ATOM  26784  C2* A  A1269     253.964 127.615  17.610  1.00 60.18      A16S
ATOM  26785  O2* A  A1269     252.919 126.793  17.133  1.00 60.18      A16S
ATOM  26786  C3* A  A1269     253.822 129.067  17.172  1.00 60.18      A16S
ATOM  26787  O3* A  A1269     252.458 129.416  17.084  1.00 60.18      A16S
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ATOM  26788  P    C   A1270     251.835 130.479  18.103  1.00 75.14      A16S
ATOM  26789  O1P  C   A1270     250.441 130.013  18.334  1.00 69.34      A16S
ATOM  26790  O2P  C   A1270     252.071 131.832  17.539  1.00 69.34      A16S
ATOM  26791  O5*  C   A1270     252.681 130.309  19.449  1.00 75.14      A16S
ATOM  26792  C5*  C   A1270     252.518 129.148  20.283  1.00 75.14      A16S
ATOM  26793  C4*  C   A1270     253.714 128.964  21.194  1.00 75.14      A16S
ATOM  26794  O4*  C   A1270     254.923 129.152  20.414  1.00 75.14      A16S
ATOM  26795  C1*  C   A1270     255.957 129.662  21.246  1.00 75.14      A16S
ATOM  26796  N1   C   A1270     256.362 131.002  20.767  1.00 69.34      A16S
ATOM  26797  C6   C   A1270     255.467 131.838  20.157  1.00 69.34      A16S
ATOM  26798  C2   C   A1270     257.683 131.417  20.971  1.00 69.34      A16S
ATOM  26799  O2   C   A1270     258.485 130.632  21.508  1.00 69.34      A16S
ATOM  26800  N3   C   A1270     258.055 132.658  20.577  1.00 69.34      A16S
ATOM  26801  C4   C   A1270     257.171 133.466  19.992  1.00 69.34      A16S
ATOM  26802  N4   C   A1270     257.581 134.682  19.620  1.00 69.34      A16S
ATOM  26803  C5   C   A1270     255.826 133.067  19.760  1.00 69.34      A16S
ATOM  26804  C2*  C   A1270     255.393 129.758  22.658  1.00 75.14      A16S
ATOM  26805  O2*  C   A1270     255.690 128.564  23.359  1.00 75.14      A16S
ATOM  26806  C3*  C   A1270     253.907 129.912  22.376  1.00 75.14      A16S
ATOM  26807  O3*  C   A1270     253.149 129.579  23.535  1.00 75.14      A16S
ATOM  26808  P    G   A1271     252.935 130.683  24.691  1.00105.25      A16S
ATOM  26809  O1P  G   A1271     251.928 130.128  25.625  1.00 93.78      A16S
ATOM  26810  O2P  G   A1271     252.703 132.016  24.073  1.00 93.78      A16S
ATOM  26811  O5*  G   A1271     254.337 130.719  25.448  1.00105.25      A16S
ATOM  26812  C5*  G   A1271     254.803 129.572  26.191  1.00105.25      A16S
ATOM  26813  C4*  G   A1271     256.188 129.822  26.751  1.00105.25      A16S
ATOM  26814  O4*  G   A1271     257.127 130.026  25.662  1.00105.25      A16S
ATOM  26815  C1*  G   A1271     258.103 130.986  26.036  1.00105.25      A16S
ATOM  26816  N9   G   A1271     257.921 132.171  25.203  1.00 93.78      A16S
ATOM  26817  C4   G   A1271     258.710 133.295  25.195  1.00 93.78      A16S
ATOM  26818  N3   G   A1271     259.798 133.505  25.964  1.00 93.78      A16S
ATOM  26819  C2   G   A1271     260.346 134.690  25.735  1.00 93.78      A16S
ATOM  26820  N2   G   A1271     261.432 135.077  26.438  1.00 93.78      A16S
ATOM  26821  N1   G   A1271     259.869 135.587  24.807  1.00 93.78      A16S
ATOM  26822  C6   G   A1271     258.752 135.386  24.001  1.00 93.78      A16S
ATOM  26823  O6   G   A1271     258.412 136.255  23.189  1.00 93.78      A16S
ATOM  26824  C5   G   A1271     258.148 134.130  24.253  1.00 93.78      A16S
ATOM  26825  N7   G   A1271     257.023 133.549  23.689  1.00 93.78      A16S
ATOM  26826  C8   G   A1271     256.928 132.390  24.280  1.00 93.78      A16S
ATOM  26827  C2*  G   A1271     257.858 131.320  27.501  1.00105.25      A16S
ATOM  26828  O2*  G   A1271     258.623 130.439  28.303  1.00105.25      A16S
ATOM  26829  C3*  G   A1271     256.365 131.060  27.613  1.00105.25      A16S
ATOM  26830  O3*  G   A1271     255.954 130.879  28.954  1.00105.25      A16S
ATOM  26831  P    G   A1272     255.568 132.165  29.835  1.00 92.30      A16S
ATOM  26832  O1P  G   A1272     255.130 131.631  31.150  1.00 73.63      A16S
ATOM  26833  O2P  G   A1272     254.665 133.065  29.060  1.00 73.63      A16S
ATOM  26834  O5*  G   A1272     256.952 132.932  30.016  1.00 92.30      A16S
ATOM  26835  C5*  G   A1272     257.912 132.519  31.010  1.00 92.30      A16S
ATOM  26836  C4*  G   A1272     258.890 133.636  31.281  1.00 92.30      A16S
ATOM  26837  O4*  G   A1272     259.645 133.898  30.068  1.00 92.30      A16S
ATOM  26838  C1*  G   A1272     259.828 135.294  29.904  1.00 92.30      A16S
ATOM  26839  N9   G   A1272     259.049 135.710  28.740  1.00 73.63      A16S
ATOM  26840  C4   G   A1272     259.252 136.826  27.959  1.00 73.63      A16S
ATOM  26841  N3   G   A1272     260.228 137.744  28.120  1.00 73.63      A16S
ATOM  26842  C2   G   A1272     260.142 138.713  27.224  1.00 73.63      A16S
ATOM  26843  N2   G   A1272     261.027 139.714  27.238  1.00 73.63      A16S
ATOM  26844  N1   G   A1272     259.180 138.774  26.249  1.00 73.63      A16S
ATOM  26845  C6   G   A1272     258.165 137.842  26.070  1.00 73.63      A16S
ATOM  26846  O6   G   A1272     257.337 137.997  25.168  1.00 73.63      A16S
ATOM  26847  C5   G   A1272     258.244 136.800  27.019  1.00 73.63      A16S
ATOM  26848  N7   G   A1272     257.433 135.689  27.194  1.00 73.63      A16S
ATOM  26849  C8   G   A1272     257.949 135.071  28.220  1.00 73.63      A16S
ATOM  26850  C2*  G   A1272     259.305 135.968  31.172  1.00 92.30      A16S
ATOM  26851  O2*  G   A1272     260.346 136.109  32.117  1.00 92.30      A16S
ATOM  26852  C3*  G   A1272     258.253 134.973  31.627  1.00 92.30      A16S
ATOM  26853  O3*  G   A1272     257.921 135.109  33.002  1.00 92.30      A16S
ATOM  26854  P    G   A1273     256.748 136.126  33.431  1.00 82.51      A16S
ATOM  26855  O1P  G   A1273     256.705 136.096  34.915  1.00111.40      A16S
ATOM  26856  O2P  G   A1273     255.512 135.820  32.659  1.00111.40      A16S
ATOM  26857  O5*  G   A1273     257.284 137.552  32.949  1.00 82.51      A16S
ATOM  26858  C5*  G   A1273     258.504 138.086  33.494  1.00 82.51      A16S
ATOM  26859  C4*  G   A1273     259.038 139.215  32.644  1.00 82.51      A16S
ATOM  26860  O4*  G   A1273     259.172 138.784  31.265  1.00 82.51      A16S
ATOM  26861  C1*  G   A1273     259.042 139.904  30.406  1.00 82.51      A16S
ATOM  26862  N9   G   A1273     257.970 139.658  29.447  1.00111.40      A16S
ATOM  26863  C4   G   A1273     257.597 140.492  28.416  1.00111.40      A16S
ATOM  26864  N3   G   A1273     258.151 141.685  28.122  1.00111.40      A16S
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ATOM	26865	C2	G	A1273	257.569	142.257	27.084	1.00111.40	A16S
ATOM	26866	N2	G	A1273	257.981	143.456	26.671	1.00111.40	A16S
ATOM	26867	N1	G	A1273	256.536	141.697	26.379	1.00111.40	A16S
ATOM	26868	C6	G	A1273	255.953	140.467	26.660	1.00111.40	A16S
ATOM	26869	O6	G	A1273	255.029	140.045	25.952	1.00111.40	A16S
ATOM	26870	C5	G	A1273	256.557	139.850	27.785	1.00111.40	A16S
ATOM	26871	N7	G	A1273	256.275	138.641	28.406	1.00111.40	A16S
ATOM	26872	C8	G	A1273	257.134	138.571	29.386	1.00111.40	A16S
ATOM	26873	C2*	G	A1273	258.755	141.128	31.275	1.00 82.51	A16S
ATOM	26874	O2*	G	A1273	259.959	141.841	31.462	1.00 82.51	A16S
ATOM	26875	C3*	G	A1273	258.219	140.492	32.555	1.00 82.51	A16S
ATOM	26876	O3*	G	A1273	258.417	141.348	33.678	1.00 82.51	A16S
ATOM	26877	P	G	A1274	257.206	142.281	34.195	1.00 93.16	A16S
ATOM	26878	O1P	G	A1274	257.736	143.164	35.269	1.00118.04	A16S
ATOM	26879	O2P	G	A1274	256.038	141.410	34.475	1.00118.04	A16S
ATOM	26880	O5*	G	A1274	256.841	143.195	32.944	1.00 93.16	A16S
ATOM	26881	C5*	G	A1274	257.614	144.364	32.634	1.00 93.16	A16S
ATOM	26882	C4*	G	A1274	257.039	145.047	31.425	1.00 93.16	A16S
ATOM	26883	O4*	G	A1274	257.106	144.124	30.309	1.00 93.16	A16S
ATOM	26884	C1*	G	A1274	255.935	144.242	29.517	1.00 93.16	A16S
ATOM	26885	N9	G	A1274	255.219	142.968	29.566	1.00118.04	A16S
ATOM	26886	C4	G	A1274	254.129	142.612	28.804	1.00118.04	A16S
ATOM	26887	N3	G	A1274	253.532	143.377	27.865	1.00118.04	A16S
ATOM	26888	C2	G	A1274	252.502	142.764	27.312	1.00118.04	A16S
ATOM	26889	N2	G	A1274	251.793	143.378	26.363	1.00118.04	A16S
ATOM	26890	N1	G	A1274	252.091	141.503	27.650	1.00118.04	A16S
ATOM	26891	C6	G	A1274	252.690	140.697	28.611	1.00118.04	A16S
ATOM	26892	O6	G	A1274	252.237	139.573	28.839	1.00118.04	A16S
ATOM	26893	C5	G	A1274	253.796	141.340	29.215	1.00118.04	A16S
ATOM	26894	N7	G	A1274	254.658	140.900	30.209	1.00118.04	A16S
ATOM	26895	C8	G	A1274	255.483	141.895	30.384	1.00118.04	A16S
ATOM	26896	C2*	G	A1274	255.099	145.389	30.090	1.00 93.16	A16S
ATOM	26897	O2*	G	A1274	255.378	146.599	29.410	1.00 93.16	A16S
ATOM	26898	C3*	G	A1274	255.564	145.406	31.540	1.00 93.16	A16S
ATOM	26899	O3*	G	A1274	255.344	146.664	32.177	1.00 93.16	A16S
ATOM	26900	P	A	A1275	253.837	147.168	32.447	1.00107.82	A16S
ATOM	26901	O1P	A	A1275	253.832	148.033	33.645	1.00 91.51	A16S
ATOM	26902	O2P	A	A1275	252.927	145.997	32.394	1.00 91.51	A16S
ATOM	26903	O5*	A	A1275	253.540	148.103	31.197	1.00107.82	A16S
ATOM	26904	C5*	A	A1275	254.399	149.211	30.911	1.00107.82	A16S
ATOM	26905	C4*	A	A1275	253.917	149.943	29.690	1.00107.82	A16S
ATOM	26906	O4*	A	A1275	254.154	149.139	28.503	1.00107.82	A16S
ATOM	26907	C1*	A	A1275	253.134	149.391	27.546	1.00107.82	A16S
ATOM	26908	N9	A	A1275	252.405	148.147	27.272	1.00 91.51	A16S
ATOM	26909	C4	A	A1275	251.643	147.901	26.154	1.00 91.51	A16S
ATOM	26910	N3	A	A1275	251.460	148.711	25.097	1.00 91.51	A16S
ATOM	26911	C2	A	A1275	250.640	148.152	24.213	1.00 91.51	A16S
ATOM	26912	N1	A	A1275	250.024	146.968	24.261	1.00 91.51	A16S
ATOM	26913	C6	A	A1275	250.225	146.180	25.339	1.00 91.51	A16S
ATOM	26914	N6	A	A1275	249.596	145.009	25.394	1.00 91.51	A16S
ATOM	26915	C5	A	A1275	251.085	146.653	26.345	1.00 91.51	A16S
ATOM	26916	N7	A	A1275	251.506	146.105	27.548	1.00 91.51	A16S
ATOM	26917	C8	A	A1275	252.291	147.024	28.054	1.00 91.51	A16S
ATOM	26918	C2*	A	A1275	252.197	150.441	28.146	1.00107.82	A16S
ATOM	26919	O2*	A	A1275	252.559	151.734	27.695	1.00107.82	A16S
ATOM	26920	C3*	A	A1275	252.430	150.241	29.637	1.00107.82	A16S
ATOM	26921	O3*	A	A1275	252.030	151.354	30.417	1.00107.82	A16S
ATOM	26922	P	G	A1276	250.529	151.405	30.991	1.00130.69	A16S
ATOM	26923	O1P	G	A1276	250.374	152.624	31.817	1.00 76.59	A16S
ATOM	26924	O2P	G	A1276	250.221	150.072	31.580	1.00 76.59	A16S
ATOM	26925	O5*	G	A1276	249.641	151.617	29.686	1.00130.69	A16S
ATOM	26926	C5*	G	A1276	249.928	152.698	28.771	1.00130.69	A16S
ATOM	26927	C4*	G	A1276	249.165	152.515	27.477	1.00130.69	A16S
ATOM	26928	O4*	G	A1276	249.580	151.287	26.828	1.00130.69	A16S
ATOM	26929	C1*	G	A1276	248.465	150.671	26.208	1.00130.69	A16S
ATOM	26930	N9	G	A1276	248.260	149.368	26.831	1.00 76.59	A16S
ATOM	26931	C4	G	A1276	247.543	148.324	26.307	1.00 76.59	A16S
ATOM	26932	N3	G	A1276	246.891	148.327	25.130	1.00 76.59	A16S
ATOM	26933	C2	G	A1276	246.315	147.167	24.890	1.00 76.59	A16S
ATOM	26934	N2	G	A1276	245.627	146.989	23.764	1.00 76.59	A16S
ATOM	26935	N1	G	A1276	246.372	146.093	25.737	1.00 76.59	A16S
ATOM	26936	C6	G	A1276	247.037	146.070	26.952	1.00 76.59	A16S
ATOM	26937	O6	G	A1276	247.034	145.049	27.632	1.00 76.59	A16S
ATOM	26938	C5	G	A1276	247.657	147.303	27.228	1.00 76.59	A16S
ATOM	26939	N7	G	A1276	248.415	147.703	28.318	1.00 76.59	A16S
ATOM	26940	C8	G	A1276	248.748	148.934	28.042	1.00 76.59	A16S
ATOM	26941	C2*	G	A1276	247.264	151.594	26.386	1.00130.69	A16S

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ATOM  26942  O2* G   A1276     247.139 152.416  25.244  1.00130.69      A16S
ATOM  26943  C3* G   A1276     247.664 152.371  27.631  1.00130.69      A16S
ATOM  26944  O3* G   A1276     247.032 153.630  27.703  1.00130.69      A16S
ATOM  26945  P    C   A1277     245.623 153.750  28.447  1.00108.06      A16S
ATOM  26946  O1P C   A1277     245.167 155.165  28.316  1.00 78.00      A16S
ATOM  26947  O2P C   A1277     245.754 153.127  29.795  1.00 78.00      A16S
ATOM  26948  O5* C   A1277     244.672 152.823  27.570  1.00108.06      A16S
ATOM  26949  C5* C   A1277     244.302 153.210  26.238  1.00108.06      A16S
ATOM  26950  C4* C   A1277     243.309 152.235  25.665  1.00108.06      A16S
ATOM  26951  O4* C   A1277     243.959 150.964  25.432  1.00108.06      A16S
ATOM  26952  C1* C   A1277     243.025 149.917  25.608  1.00108.06      A16S
ATOM  26953  N1   C   A1277     243.529 148.993  26.642  1.00 78.00      A16S
ATOM  26954  C6   C   A1277     244.274 149.452  27.691  1.00 78.00      A16S
ATOM  26955  C2   C   A1277     243.225 147.625  26.538  1.00 78.00      A16S
ATOM  26956  O2   C   A1277     242.558 147.223  25.571  1.00 78.00      A16S
ATOM  26957  N3   C   A1277     243.669 146.775  27.493  1.00 78.00      A16S
ATOM  26958  C4   C   A1277     244.391 147.237  28.515  1.00 78.00      A16S
ATOM  26959  N4   C   A1277     244.805 146.363  29.435  1.00 78.00      A16S
ATOM  26960  C5   C   A1277     244.722 148.616  28.640  1.00 78.00      A16S
ATOM  26961  C2* C   A1277     241.681 150.555  25.960  1.00108.06      A16S
ATOM  26962  O2* C   A1277     240.969 150.750  24.759  1.00108.06      A16S
ATOM  26963  C3* C   A1277     242.110 151.894  26.537  1.00108.06      A16S
ATOM  26964  O3* C   A1277     241.075 152.870  26.426  1.00108.06      A16S
ATOM  26965  P    U   A1278     240.833 153.924  27.625  1.00133.05      A16S
ATOM  26966  O1P U   A1278     240.585 155.246  26.984  1.00198.56      A16S
ATOM  26967  O2P U   A1278     241.923 153.787  28.628  1.00198.56      A16S
ATOM  26968  O5* U   A1278     239.481 153.456  28.324  1.00133.05      A16S
ATOM  26969  C5* U   A1278     238.258 153.408  27.584  1.00133.05      A16S
ATOM  26970  C4* U   A1278     237.812 151.980  27.438  1.00133.05      A16S
ATOM  26971  O4* U   A1278     238.969 151.126  27.603  1.00133.05      A16S
ATOM  26972  C1* U   A1278     238.792 150.268  28.706  1.00133.05      A16S
ATOM  26973  N1   U   A1278     240.066 150.273  29.447  1.00198.56      A16S
ATOM  26974  C6   U   A1278     240.372 151.270  30.353  1.00198.56      A16S
ATOM  26975  C2   U   A1278     240.968 149.249  29.196  1.00198.56      A16S
ATOM  26976  O2   U   A1278     240.748 148.341  28.412  1.00198.56      A16S
ATOM  26977  N3   U   A1278     242.143 149.327  29.899  1.00198.56      A16S
ATOM  26978  C4   U   A1278     242.509 150.296  30.807  1.00198.56      A16S
ATOM  26979  O4   U   A1278     243.617 150.235  31.342  1.00198.56      A16S
ATOM  26980  C5   U   A1278     241.529 151.314  31.019  1.00198.56      A16S
ATOM  26981  C2* U   A1278     237.576 150.772  29.496  1.00133.05      A16S
ATOM  26982  O2* U   A1278     236.858 149.706  30.090  1.00133.05      A16S
ATOM  26983  C3* U   A1278     236.761 151.500  28.427  1.00133.05      A16S
ATOM  26984  O3* U   A1278     235.884 150.616  27.737  1.00133.05      A16S
ATOM  26985  P    A   A1279     234.749 151.217  26.758  1.00104.39      A16S
ATOM  26986  O1P A   A1279     233.694 150.168  26.652  1.00 90.38      A16S
ATOM  26987  O2P A   A1279     234.377 152.601  27.195  1.00 90.38      A16S
ATOM  26988  O5* A   A1279     235.466 151.336  25.337  1.00104.39      A16S
ATOM  26989  C5* A   A1279     236.148 152.543  24.949  1.00104.39      A16S
ATOM  26990  C4* A   A1279     237.235 152.233  23.947  1.00104.39      A16S
ATOM  26991  O4* A   A1279     238.091 151.216  24.506  1.00104.39      A16S
ATOM  26992  C1* A   A1279     238.595 150.404  23.475  1.00104.39      A16S
ATOM  26993  N9   A   A1279     238.497 149.006  23.892  1.00 90.38      A16S
ATOM  26994  C4   A   A1279     237.381 148.215  23.931  1.00 90.38      A16S
ATOM  26995  N3   A   A1279     236.138 148.544  23.549  1.00 90.38      A16S
ATOM  26996  C2   A   A1279     235.304 147.528  23.753  1.00 90.38      A16S
ATOM  26997  N1   A   A1279     235.557 146.313  24.262  1.00 90.38      A16S
ATOM  26998  C6   A   A1279     236.824 146.020  24.638  1.00 90.38      A16S
ATOM  26999  N6   A   A1279     237.082 144.818  25.161  1.00 90.38      A16S
ATOM  27000  C5   A   A1279     237.797 147.007  24.463  1.00 90.38      A16S
ATOM  27001  N7   A   A1279     239.154 147.025  24.729  1.00 90.38      A16S
ATOM  27002  C8   A   A1279     239.523 148.227  24.368  1.00 90.38      A16S
ATOM  27003  C2* A   A1279     237.948 150.828  22.158  1.00104.39      A16S
ATOM  27004  O2* A   A1279     238.885 151.635  21.482  1.00104.39      A16S
ATOM  27005  C3* A   A1279     236.757 151.664  22.622  1.00104.39      A16S
ATOM  27006  O3* A   A1279     236.630 152.698  21.651  1.00104.39      A16S
ATOM  27007  P    A   A1280     235.615 153.927  21.867  1.00 80.81      A16S
ATOM  27008  O1P A   A1280     235.745 154.464  23.245  1.00 75.16      A16S
ATOM  27009  O2P A   A1280     234.267 153.560  21.351  1.00 75.16      A16S
ATOM  27010  O5* A   A1280     236.246 155.024  20.897  1.00 80.81      A16S
ATOM  27011  C5* A   A1280     235.596 155.433  19.677  1.00 80.81      A16S
ATOM  27012  C4* A   A1280     236.286 154.829  18.466  1.00 80.81      A16S
ATOM  27013  O4* A   A1280     235.720 155.452  17.284  1.00 80.81      A16S
ATOM  27014  C1* A   A1280     236.737 156.050  16.512  1.00 80.81      A16S
ATOM  27015  N9   A   A1280     236.234 157.340  16.048  1.00 75.16      A16S
ATOM  27016  C4   A   A1280     235.749 157.633  14.798  1.00 75.16      A16S
ATOM  27017  N3   A   A1280     235.640 156.802  13.749  1.00 75.16      A16S
ATOM  27018  C2   A   A1280     235.135 157.442  12.697  1.00 75.16      A16S
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ATOM  27019  N1  A   A1280     234.753 158.723  12.584  1.00 75.16      A16S
ATOM  27020  C6  A   A1280     234.872 159.528  13.661  1.00 75.16      A16S
ATOM  27021  N6  A   A1280     234.486 160.802  13.556  1.00 75.16      A16S
ATOM  27022  C5  A   A1280     235.396 158.970  14.835  1.00 75.16      A16S
ATOM  27023  N7  A   A1280     235.649 159.510  16.086  1.00 75.16      A16S
ATOM  27024  C8  A   A1280     236.144 158.506  16.766  1.00 75.16      A16S
ATOM  27025  C2* A   A1280     237.963 156.183  17.411  1.00 80.81      A16S
ATOM  27026  O2* A   A1280     239.132 156.069  16.632  1.00 80.81      A16S
ATOM  27027  C3* A   A1280     237.801 154.999  18.353  1.00 80.81      A16S
ATOM  27028  O3* A   A1280     238.341 153.858  17.705  1.00 80.81      A16S
ATOM  27029  P   U   A1281     239.802 153.324  18.094  1.00162.03      A16S
ATOM  27030  O1P U   A1281     240.488 152.894  16.851  1.00 84.06      A16S
ATOM  27031  O2P U   A1281     239.653 152.371  19.216  1.00 84.06      A16S
ATOM  27032  O5* U   A1281     240.566 154.612  18.621  1.00162.03      A16S
ATOM  27033  C5* U   A1281     241.455 154.521  19.739  1.00162.03      A16S
ATOM  27034  C4* U   A1281     242.437 155.658  19.712  1.00162.03      A16S
ATOM  27035  O4* U   A1281     241.726 156.899  19.491  1.00162.03      A16S
ATOM  27036  C1* U   A1281     242.189 157.891  20.383  1.00162.03      A16S
ATOM  27037  N1  U   A1281     241.015 158.311  21.174  1.00 84.06      A16S
ATOM  27038  C6  U   A1281     240.603 157.627  22.308  1.00 84.06      A16S
ATOM  27039  C2  U   A1281     240.284 159.392  20.694  1.00 84.06      A16S
ATOM  27040  O2  U   A1281     240.658 160.088  19.758  1.00 84.06      A16S
ATOM  27041  N3  U   A1281     239.103 159.633  21.356  1.00 84.06      A16S
ATOM  27042  C4  U   A1281     238.598 158.943  22.447  1.00 84.06      A16S
ATOM  27043  O4  U   A1281     237.439 159.163  22.814  1.00 84.06      A16S
ATOM  27044  C5  U   A1281     239.452 157.901  22.942  1.00 84.06      A16S
ATOM  27045  C2* U   A1281     243.432 157.334  21.099  1.00162.03      A16S
ATOM  27046  O2* U   A1281     244.593 157.764  20.417  1.00162.03      A16S
ATOM  27047  C3* U   A1281     243.204 155.827  21.007  1.00162.03      A16S
ATOM  27048  O3* U   A1281     244.354 154.960  21.045  1.00162.03      A16S
ATOM  27049  P   C   A1282     245.462 154.977  19.854  1.00 82.51      A16S
ATOM  27050  O1P C   A1282     246.442 156.068  20.102  1.00 88.77      A16S
ATOM  27051  O2P C   A1282     244.838 154.859  18.514  1.00 88.77      A16S
ATOM  27052  O5* C   A1282     246.230 153.608  20.093  1.00 82.51      A16S
ATOM  27053  C5* C   A1282     247.147 153.482  21.182  1.00 82.51      A16S
ATOM  27054  C4* C   A1282     247.000 152.141  21.846  1.00 82.51      A16S
ATOM  27055  O4* C   A1282     245.748 152.062  22.575  1.00 82.51      A16S
ATOM  27056  C1* C   A1282     245.311 150.708  22.619  1.00 82.51      A16S
ATOM  27057  N1  C   A1282     243.959 150.589  22.017  1.00 88.77      A16S
ATOM  27058  C6  C   A1282     243.317 151.668  21.470  1.00 88.77      A16S
ATOM  27059  C2  C   A1282     243.340 149.315  21.996  1.00 88.77      A16S
ATOM  27060  O2  C   A1282     243.912 148.356  22.532  1.00 88.77      A16S
ATOM  27061  N3  C   A1282     242.139 149.170  21.398  1.00 88.77      A16S
ATOM  27062  C4  C   A1282     241.538 150.223  20.845  1.00 88.77      A16S
ATOM  27063  N4  C   A1282     240.366 150.017  20.242  1.00 88.77      A16S
ATOM  27064  C5  C   A1282     242.116 151.531  20.879  1.00 88.77      A16S
ATOM  27065  C2* C   A1282     246.334 149.881  21.842  1.00 82.51      A16S
ATOM  27066  O2* C   A1282     247.263 149.321  22.750  1.00 82.51      A16S
ATOM  27067  C3* C   A1282     246.949 150.935  20.934  1.00 82.51      A16S
ATOM  27068  O3* C   A1282     248.214 150.559  20.425  1.00 82.51      A16S
ATOM  27069  P   G   A1283     248.300 149.881  18.971  1.00123.94      A16S
ATOM  27070  O1P G   A1283     249.732 149.707  18.636  1.00 68.36      A16S
ATOM  27071  O2P G   A1283     247.418 150.645  18.049  1.00 68.36      A16S
ATOM  27072  O5* G   A1283     247.669 148.440  19.206  1.00123.94      A16S
ATOM  27073  C5* G   A1283     248.185 147.589  20.239  1.00123.94      A16S
ATOM  27074  C4* G   A1283     247.392 146.311  20.319  1.00123.94      A16S
ATOM  27075  O4* G   A1283     246.069 146.555  20.865  1.00123.94      A16S
ATOM  27076  C1* G   A1283     245.148 145.627  20.310  1.00123.94      A16S
ATOM  27077  N9  G   A1283     244.129 146.349  19.550  1.00 68.36      A16S
ATOM  27078  C4  G   A1283     242.875 145.873  19.236  1.00 68.36      A16S
ATOM  27079  N3  G   A1283     242.375 144.668  19.585  1.00 68.36      A16S
ATOM  27080  C2  G   A1283     241.143 144.495  19.141  1.00 68.36      A16S
ATOM  27081  N2  G   A1283     240.504 143.354  19.409  1.00 68.36      A16S
ATOM  27082  N1  G   A1283     240.452 145.428  18.404  1.00 68.36      A16S
ATOM  27083  C6  G   A1283     240.945 146.671  18.027  1.00 68.36      A16S
ATOM  27084  O6  G   A1283     240.243 147.430  17.357  1.00 68.36      A16S
ATOM  27085  C5  G   A1283     242.273 146.876  18.505  1.00 68.36      A16S
ATOM  27086  N7  G   A1283     243.129 147.961  18.359  1.00 68.36      A16S
ATOM  27087  C8  G   A1283     244.216 147.605  18.994  1.00 68.36      A16S
ATOM  27088  C2* G   A1283     245.935 144.716  19.376  1.00123.94      A16S
ATOM  27089  O2* G   A1283     246.349 143.565  20.085  1.00123.94      A16S
ATOM  27090  C3* G   A1283     247.101 145.616  19.005  1.00123.94      A16S
ATOM  27091  O3* G   A1283     248.192 144.895  18.489  1.00123.94      A16S
ATOM  27092  P   C   A1284     248.201 144.512  16.931  1.00 94.99      A16S
ATOM  27093  O1P C   A1284     249.551 143.953  16.681  1.00 40.66      A16S
ATOM  27094  O2P C   A1284     247.720 145.680  16.125  1.00 40.66      A16S
ATOM  27095  O5* C   A1284     247.145 143.320  16.846  1.00 94.99      A16S
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ATOM  27096  C5* C   A1284      247.289 142.156  17.699  1.00 94.99      A16S
ATOM  27097  C4* C   A1284      246.215 141.133  17.407  1.00 94.99      A16S
ATOM  27098  O4* C   A1284      244.931 141.581  17.908  1.00 94.99      A16S
ATOM  27099  C1* C   A1284      243.906 141.175  17.018  1.00 94.99      A16S
ATOM  27100  N1  C   A1284      243.321 142.380  16.412  1.00 40.66      A16S
ATOM  27101  C6  C   A1284      244.060 143.522  16.290  1.00 40.66      A16S
ATOM  27102  C2  C   A1284      241.993 142.342  15.944  1.00 40.66      A16S
ATOM  27103  O2  C   A1284      241.334 141.276  16.044  1.00 40.66      A16S
ATOM  27104  N3  C   A1284      241.466 143.462  15.385  1.00 40.66      A16S
ATOM  27105  C4  C   A1284      242.209 144.565  15.271  1.00 40.66      A16S
ATOM  27106  N4  C   A1284      241.663 145.637  14.707  1.00 40.66      A16S
ATOM  27107  C5  C   A1284      243.551 144.620  15.728  1.00 40.66      A16S
ATOM  27108  C2* C   A1284      244.551 140.312  15.938  1.00 94.99      A16S
ATOM  27109  O2* C   A1284      244.482 138.956  16.317  1.00 94.99      A16S
ATOM  27110  C3* C   A1284      245.974 140.844  15.939  1.00 94.99      A16S
ATOM  27111  O3* C   A1284      246.895 139.912  15.414  1.00 94.99      A16S
ATOM  27112  P   A   A1285      247.404 140.084  13.905  1.00100.22      A16S
ATOM  27113  O1P A   A1285      246.208 140.214  13.050  1.00 53.41      A16S
ATOM  27114  O2P A   A1285      248.407 139.021  13.620  1.00 53.41      A16S
ATOM  27115  O5* A   A1285      248.106 141.508  13.883  1.00100.22      A16S
ATOM  27116  C5* A   A1285      248.867 141.916  12.744  1.00100.22      A16S
ATOM  27117  C4* A   A1285      248.168 143.039  12.031  1.00100.22      A16S
ATOM  27118  O4* A   A1285      246.849 142.601  11.652  1.00100.22      A16S
ATOM  27119  C1* A   A1285      245.978 143.710  11.622  1.00100.22      A16S
ATOM  27120  N9  A   A1285      244.665 143.302  12.126  1.00 53.41      A16S
ATOM  27121  C4  A   A1285      243.479 143.950  11.880  1.00 53.41      A16S
ATOM  27122  N3  A   A1285      243.309 145.109  11.227  1.00 53.41      A16S
ATOM  27123  C2  A   A1285      242.020 145.398  11.126  1.00 53.41      A16S
ATOM  27124  N1  A   A1285      240.960 144.711  11.560  1.00 53.41      A16S
ATOM  27125  C6  A   A1285      241.161 143.548  12.205  1.00 53.41      A16S
ATOM  27126  N6  A   A1285      240.098 142.853  12.603  1.00 53.41      A16S
ATOM  27127  C5  A   A1285      242.488 143.136  12.399  1.00 53.41      A16S
ATOM  27128  N7  A   A1285      243.042 142.024  13.022  1.00 53.41      A16S
ATOM  27129  C8  A   A1285      244.333 142.179  12.849  1.00 53.41      A16S
ATOM  27130  C2* A   A1285      246.675 144.930  12.231  1.00100.22      A16S
ATOM  27131  O2* A   A1285      246.878 145.897  11.219  1.00100.22      A16S
ATOM  27132  C3* A   A1285      247.935 144.305  12.842  1.00100.22      A16S
ATOM  27133  O3* A   A1285      249.126 145.125  12.910  1.00100.22      A16S
ATOM  27134  P   A   A1286      249.889 145.626  11.565  1.00 84.63      A16S
ATOM  27135  O1P A   A1286      251.287 145.845  12.000  1.00103.28      A16S
ATOM  27136  O2P A   A1286      249.149 146.739  10.917  1.00103.28      A16S
ATOM  27137  O5* A   A1286      249.915 144.375  10.574  1.00 84.63      A16S
ATOM  27138  C5* A   A1286      251.166 143.871  10.077  1.00 84.63      A16S
ATOM  27139  C4* A   A1286      250.977 143.005   8.841  1.00 84.63      A16S
ATOM  27140  O4* A   A1286      250.447 141.694   9.196  1.00 84.63      A16S
ATOM  27141  C1* A   A1286      249.689 141.173   8.108  1.00 84.63      A16S
ATOM  27142  N9  A   A1286      248.277 141.071   8.519  1.00103.28      A16S
ATOM  27143  C4  A   A1286      247.581 139.931   8.847  1.00103.28      A16S
ATOM  27144  N3  A   A1286      248.046 138.670   8.886  1.00103.28      A16S
ATOM  27145  C2  A   A1286      247.081 137.828   9.255  1.00103.28      A16S
ATOM  27146  N1  A   A1286      245.800 138.085   9.564  1.00103.28      A16S
ATOM  27147  C6  A   A1286      245.367 139.363   9.511  1.00103.28      A16S
ATOM  27148  N6  A   A1286      244.095 139.624   9.814  1.00103.28      A16S
ATOM  27149  C5  A   A1286      246.288 140.348   9.137  1.00103.28      A16S
ATOM  27150  N7  A   A1286      246.168 141.721   8.997  1.00103.28      A16S
ATOM  27151  C8  A   A1286      247.366 142.104   8.639  1.00103.28      A16S
ATOM  27152  C2* A   A1286      249.855 142.157   6.948  1.00 84.63      A16S
ATOM  27153  O2* A   A1286      250.945 141.748   6.143  1.00 84.63      A16S
ATOM  27154  C3* A   A1286      250.082 143.474   7.699  1.00 84.63      A16S
ATOM  27155  O3* A   A1286      250.638 144.549   6.935  1.00 84.63      A16S
ATOM  27156  P   A   A1287      250.012 144.970   5.493  1.00 91.03      A16S
ATOM  27157  O1P A   A1287      250.508 143.942   4.550  1.00 67.41      A16S
ATOM  27158  O2P A   A1287      250.374 146.393   5.267  1.00 67.41      A16S
ATOM  27159  O5* A   A1287      248.405 144.913   5.532  1.00 91.03      A16S
ATOM  27160  C5* A   A1287      247.679 143.862   6.212  1.00 91.03      A16S
ATOM  27161  C4* A   A1287      246.905 142.948   5.253  1.00 91.03      A16S
ATOM  27162  O4* A   A1287      245.581 143.454   4.967  1.00 91.03      A16S
ATOM  27163  C1* A   A1287      245.040 142.708   3.897  1.00 91.03      A16S
ATOM  27164  N9  A   A1287      244.263 143.577   3.013  1.00 67.41      A16S
ATOM  27165  C4  A   A1287      243.223 143.160   2.213  1.00 67.41      A16S
ATOM  27166  N3  A   A1287      242.754 141.911   2.072  1.00 67.41      A16S
ATOM  27167  C2  A   A1287      241.728 141.886   1.228  1.00 67.41      A16S
ATOM  27168  N1  A   A1287      241.157 142.890   0.554  1.00 67.41      A16S
ATOM  27169  C6  A   A1287      241.652 144.130   0.709  1.00 67.41      A16S
ATOM  27170  N6  A   A1287      241.085 145.123   0.025  1.00 67.41      A16S
ATOM  27171  C5  A   A1287      242.747 144.295   1.586  1.00 67.41      A16S
ATOM  27172  N7  A   A1287      243.483 145.408   1.969  1.00 67.41      A16S
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ATOM  27173  C8   A   A1287     244.370 144.927   2.809  1.00 67.41      A16S
ATOM  27174  C2*  A   A1287     246.178 141.931   3.236  1.00 91.03      A16S
ATOM  27175  O2*  A   A1287     246.008 140.579   3.604  1.00 91.03      A16S
ATOM  27176  C3*  A   A1287     247.427 142.537   3.882  1.00 91.03      A16S
ATOM  27177  O3*  A   A1287     248.429 141.524   3.951  1.00 91.03      A16S
ATOM  27178  P    A   A1288     249.296 141.164   2.638  1.00 80.06      A16S
ATOM  27179  O1P  A   A1288     250.406 140.264   3.060  1.00 52.43      A16S
ATOM  27180  O2P  A   A1288     249.600 142.411   1.895  1.00 52.43      A16S
ATOM  27181  O5*  A   A1288     248.299 140.345   1.709  1.00 80.06      A16S
ATOM  27182  C5*  A   A1288     248.288 138.911   1.719  1.00 80.06      A16S
ATOM  27183  C4*  A   A1288     247.414 138.399   0.606  1.00 80.06      A16S
ATOM  27184  O4*  A   A1288     246.105 139.007   0.749  1.00 80.06      A16S
ATOM  27185  C1*  A   A1288     245.543 139.227  -0.525  1.00 80.06      A16S
ATOM  27186  N9   A   A1288     245.301 140.654  -0.693  1.00 52.43      A16S
ATOM  27187  C4   A   A1288     244.241 141.201  -1.369  1.00 52.43      A16S
ATOM  27188  N3   A   A1288     243.245 140.543  -1.976  1.00 52.43      A16S
ATOM  27189  C2   A   A1288     242.406 141.399  -2.557  1.00 52.43      A16S
ATOM  27190  N1   A   A1288     242.446 142.737  -2.592  1.00 52.43      A16S
ATOM  27191  C6   A   A1288     243.455 143.363  -1.967  1.00 52.43      A16S
ATOM  27192  N6   A   A1288     243.481 144.688  -2.004  1.00 52.43      A16S
ATOM  27193  C5   A   A1288     244.418 142.567  -1.316  1.00 52.43      A16S
ATOM  27194  N7   A   A1288     245.568 142.879  -0.609  1.00 52.43      A16S
ATOM  27195  C8   A   A1288     246.051 141.710  -0.258  1.00 52.43      A16S
ATOM  27196  C2*  A   A1288     246.525 138.701  -1.568  1.00 80.06      A16S
ATOM  27197  O2*  A   A1288     246.175 137.373  -1.900  1.00 80.06      A16S
ATOM  27198  C3*  A   A1288     247.841 138.762  -0.810  1.00 80.06      A16S
ATOM  27199  O3*  A   A1288     248.785 137.839  -1.356  1.00 80.06      A16S
ATOM  27200  P    A   A1289     249.774 138.312  -2.541  1.00 60.69      A16S
ATOM  27201  O1P  A   A1289     250.631 137.130  -2.839  1.00 70.89      A16S
ATOM  27202  O2P  A   A1289     250.407 139.605  -2.150  1.00 70.89      A16S
ATOM  27203  O5*  A   A1289     248.817 138.603  -3.791  1.00 60.69      A16S
ATOM  27204  C5*  A   A1289     248.223 137.516  -4.531  1.00 60.69      A16S
ATOM  27205  C4*  A   A1289     247.021 137.980  -5.328  1.00 60.69      A16S
ATOM  27206  O4*  A   A1289     246.086 138.681  -4.465  1.00 60.69      A16S
ATOM  27207  C1*  A   A1289     245.359 139.632  -5.222  1.00 60.69      A16S
ATOM  27208  N9   A   A1289     245.601 140.964  -4.685  1.00 70.89      A16S
ATOM  27209  C4   A   A1289     244.847 142.066  -4.996  1.00 70.89      A16S
ATOM  27210  N3   A   A1289     243.748 142.106  -5.767  1.00 70.89      A16S
ATOM  27211  C2   A   A1289     243.293 143.350  -5.877  1.00 70.89      A16S
ATOM  27212  N1   A   A1289     243.777 144.473  -5.347  1.00 70.89      A16S
ATOM  27213  C6   A   A1289     244.885 144.398  -4.578  1.00 70.89      A16S
ATOM  27214  N6   A   A1289     245.374 145.524  -4.056  1.00 70.89      A16S
ATOM  27215  C5   A   A1289     245.461 143.131  -4.377  1.00 70.89      A16S
ATOM  27216  N7   A   A1289     246.564 142.704  -3.648  1.00 70.89      A16S
ATOM  27217  C8   A   A1289     246.597 141.410  -3.856  1.00 70.89      A16S
ATOM  27218  C2*  A   A1289     245.892 139.590  -6.650  1.00 60.69      A16S
ATOM  27219  O2*  A   A1289     245.032 138.831  -7.474  1.00 60.69      A16S
ATOM  27220  C3*  A   A1289     247.267 138.974  -6.443  1.00 60.69      A16S
ATOM  27221  O3*  A   A1289     247.752 138.378  -7.625  1.00 60.69      A16S
ATOM  27222  P    G   A1290     249.069 138.981  -8.313  1.00 61.09      A16S
ATOM  27223  O1P  G   A1290     249.127 138.492  -9.719  1.00 78.22      A16S
ATOM  27224  O2P  G   A1290     250.206 138.704  -7.385  1.00 78.22      A16S
ATOM  27225  O5*  G   A1290     248.823 140.554  -8.332  1.00 61.09      A16S
ATOM  27226  C5*  G   A1290     247.799 141.135  -9.150  1.00 61.09      A16S
ATOM  27227  C4*  G   A1290     247.758 142.631  -8.943  1.00 61.09      A16S
ATOM  27228  O4*  G   A1290     247.548 142.896  -7.531  1.00 61.09      A16S
ATOM  27229  C1*  G   A1290     248.274 144.047  -7.138  1.00 61.09      A16S
ATOM  27230  N9   G   A1290     249.243 143.657  -6.109  1.00 78.22      A16S
ATOM  27231  C4   G   A1290     250.194 144.466  -5.522  1.00 78.22      A16S
ATOM  27232  N3   G   A1290     250.404 145.771  -5.795  1.00 78.22      A16S
ATOM  27233  C2   G   A1290     251.385 146.279  -5.066  1.00 78.22      A16S
ATOM  27234  N2   G   A1290     251.713 147.574  -5.206  1.00 78.22      A16S
ATOM  27235  N1   G   A1290     252.114 145.560  -4.147  1.00 78.22      A16S
ATOM  27236  C6   G   A1290     251.924 144.214  -3.851  1.00 78.22      A16S
ATOM  27237  O6   G   A1290     252.648 143.658  -3.009  1.00 78.22      A16S
ATOM  27238  C5   G   A1290     250.860 143.656  -4.621  1.00 78.22      A16S
ATOM  27239  N7   G   A1290     250.338 142.368  -4.636  1.00 78.22      A16S
ATOM  27240  C8   G   A1290     249.387 142.415  -5.531  1.00 78.22      A16S
ATOM  27241  C2*  G   A1290     248.900 144.631  -8.404  1.00 61.09      A16S
ATOM  27242  O2*  G   A1290     247.995 145.570  -8.955  1.00 61.09      A16S
ATOM  27243  C3*  G   A1290     249.030 143.394  -9.284  1.00 61.09      A16S
ATOM  27244  O3*  G   A1290     249.117 143.713 -10.678  1.00 61.09      A16S
ATOM  27245  P    G   A1291     250.514 143.505 -11.467  1.00 66.06      A16S
ATOM  27246  O1P  G   A1291     250.240 143.771 -12.903  1.00 74.26      A16S
ATOM  27247  O2P  G   A1291     251.136 142.209 -11.066  1.00 74.26      A16S
ATOM  27248  O5*  G   A1291     251.458 144.660 -10.911  1.00 66.06      A16S
ATOM  27249  C5*  G   A1291     251.168 146.052 -11.155  1.00 66.06      A16S
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ATOM  27250  C4* G   A1291     252.147 146.924 -10.400  1.00 66.06      A16S
ATOM  27251  O4* G   A1291     251.976 146.727  -8.972  1.00 66.06      A16S
ATOM  27252  C1* G   A1291     253.223 146.849  -8.318  1.00 66.06      A16S
ATOM  27253  N9  G   A1291     253.478 145.625  -7.576  1.00 74.26      A16S
ATOM  27254  C4  G   A1291     254.502 145.414  -6.685  1.00 74.26      A16S
ATOM  27255  N3  G   A1291     255.460 146.303  -6.352  1.00 74.26      A16S
ATOM  27256  C2  G   A1291     256.308 145.805  -5.465  1.00 74.26      A16S
ATOM  27257  N2  G   A1291     257.321 146.555  -5.015  1.00 74.26      A16S
ATOM  27258  N1  G   A1291     256.223 144.535  -4.950  1.00 74.26      A16S
ATOM  27259  C6  G   A1291     255.242 143.608  -5.273  1.00 74.26      A16S
ATOM  27260  O6  G   A1291     255.252 142.498  -4.745  1.00 74.26      A16S
ATOM  27261  C5  G   A1291     254.327 144.125  -6.225  1.00 74.26      A16S
ATOM  27262  N7  G   A1291     253.221 143.537  -6.821  1.00 74.26      A16S
ATOM  27263  C8  G   A1291     252.751 144.461  -7.615  1.00 74.26      A16S
ATOM  27264  C2* G   A1291     254.287 147.140  -9.371  1.00 66.06      A16S
ATOM  27265  O2* G   A1291     254.544 148.531  -9.370  1.00 66.06      A16S
ATOM  27266  C3* G   A1291     253.618 146.628 -10.644  1.00 66.06      A16S
ATOM  27267  O3* G   A1291     254.092 147.279 -11.817  1.00 66.06      A16S
ATOM  27268  P   U   A1292     255.405 146.724 -12.552  1.00 78.74      A16S
ATOM  27269  O1P U   A1292     255.720 147.692 -13.633  1.00 84.61      A16S
ATOM  27270  O2P U   A1292     255.215 145.287 -12.881  1.00 84.61      A16S
ATOM  27271  O5* U   A1292     256.529 146.809 -11.429  1.00 78.74      A16S
ATOM  27272  C5* U   A1292     257.165 148.059 -11.116  1.00 78.74      A16S
ATOM  27273  C4* U   A1292     258.432 147.817 -10.339  1.00 78.74      A16S
ATOM  27274  O4* U   A1292     258.122 147.409  -8.982  1.00 78.74      A16S
ATOM  27275  C1* U   A1292     259.098 146.486  -8.525  1.00 78.74      A16S
ATOM  27276  N1  U   A1292     258.432 145.229  -8.153  1.00 84.61      A16S
ATOM  27277  C6  U   A1292     257.266 144.833  -8.756  1.00 84.61      A16S
ATOM  27278  C2  U   A1292     259.028 144.442  -7.174  1.00 84.61      A16S
ATOM  27279  O2  U   A1292     260.069 144.740  -6.616  1.00 84.61      A16S
ATOM  27280  N3  U   A1292     258.363 143.283  -6.879  1.00 84.61      A16S
ATOM  27281  C4  U   A1292     257.204 142.829  -7.448  1.00 84.61      A16S
ATOM  27282  O4  U   A1292     256.728 141.760  -7.070  1.00 84.61      A16S
ATOM  27283  C5  U   A1292     256.652 143.690  -8.450  1.00 84.61      A16S
ATOM  27284  C2* U   A1292     260.113 146.283  -9.649  1.00 78.74      A16S
ATOM  27285  O2* U   A1292     261.243 147.101  -9.418  1.00 78.74      A16S
ATOM  27286  C3* U   A1292     259.306 146.699 -10.873  1.00 78.74      A16S
ATOM  27287  O3* U   A1292     260.111 147.097 -11.973  1.00 78.74      A16S
ATOM  27288  P   G   A1293     260.659 145.976 -12.987  1.00 70.29      A16S
ATOM  27289  O1P G   A1293     261.447 146.693 -14.029  1.00 75.47      A16S
ATOM  27290  O2P G   A1293     259.508 145.131 -13.406  1.00 75.47      A16S
ATOM  27291  O5* G   A1293     261.642 145.104 -12.072  1.00 70.29      A16S
ATOM  27292  C5* G   A1293     262.845 145.696 -11.565  1.00 70.29      A16S
ATOM  27293  C4* G   A1293     263.578 144.758 -10.641  1.00 70.29      A16S
ATOM  27294  O4* G   A1293     262.842 144.568  -9.412  1.00 70.29      A16S
ATOM  27295  C1* G   A1293     263.205 143.321  -8.839  1.00 70.29      A16S
ATOM  27296  N9  G   A1293     262.004 142.515  -8.641  1.00 75.47      A16S
ATOM  27297  C4  G   A1293     261.892 141.422  -7.818  1.00 75.47      A16S
ATOM  27298  N3  G   A1293     262.865 140.921  -7.033  1.00 75.47      A16S
ATOM  27299  C2  G   A1293     262.460 139.853  -6.372  1.00 75.47      A16S
ATOM  27300  N2  G   A1293     263.301 139.217  -5.541  1.00 75.47      A16S
ATOM  27301  N1  G   A1293     261.205 139.328  -6.476  1.00 75.47      A16S
ATOM  27302  C6  G   A1293     260.193 139.831  -7.279  1.00 75.47      A16S
ATOM  27303  O6  G   A1293     259.096 139.280  -7.300  1.00 75.47      A16S
ATOM  27304  C5  G   A1293     260.609 140.966  -7.989  1.00 75.47      A16S
ATOM  27305  N7  G   A1293     259.919 141.758  -8.894  1.00 75.47      A16S
ATOM  27306  C8  G   A1293     260.782 142.667  -9.251  1.00 75.47      A16S
ATOM  27307  C2* G   A1293     264.166 142.625  -9.807  1.00 70.29      A16S
ATOM  27308  O2* G   A1293     265.508 142.776  -9.386  1.00 70.29      A16S
ATOM  27309  C3* G   A1293     263.879 143.350 -11.114  1.00 70.29      A16S
ATOM  27310  O3* G   A1293     265.011 143.276 -11.959  1.00 70.29      A16S
ATOM  27311  P   G   A1294     265.221 141.977 -12.880  1.00 80.51      A16S
ATOM  27312  O1P G   A1294     266.418 142.242 -13.730  1.00 68.26      A16S
ATOM  27313  O2P G   A1294     263.922 141.648 -13.525  1.00 68.26      A16S
ATOM  27314  O5* G   A1294     265.567 140.821 -11.841  1.00 80.51      A16S
ATOM  27315  C5* G   A1294     266.813 140.833 -11.146  1.00 80.51      A16S
ATOM  27316  C4* G   A1294     266.908 139.659 -10.210  1.00 80.51      A16S
ATOM  27317  O4* G   A1294     265.904 139.788  -9.171  1.00 80.51      A16S
ATOM  27318  C1* G   A1294     265.444 138.497  -8.786  1.00 80.51      A16S
ATOM  27319  N9  G   A1294     264.025 138.381  -9.126  1.00 68.26      A16S
ATOM  27320  C4  G   A1294     263.140 137.476  -8.598  1.00 68.26      A16S
ATOM  27321  N3  G   A1294     263.418 136.570  -7.639  1.00 68.26      A16S
ATOM  27322  C2  G   A1294     262.375 135.815  -7.360  1.00 68.26      A16S
ATOM  27323  N2  G   A1294     262.485 134.857  -6.424  1.00 68.26      A16S
ATOM  27324  N1  G   A1294     261.150 135.940  -7.979  1.00 68.26      A16S
ATOM  27325  C6  G   A1294     260.846 136.867  -8.973  1.00 68.26      A16S
ATOM  27326  O6  G   A1294     259.718 136.889  -9.482  1.00 68.26      A16S
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ATOM  27327  C5  G  A1294     261.956 137.686  -9.272  1.00 68.26      A16S
ATOM  27328  N7  G  A1294     262.083 138.725 -10.183  1.00 68.26      A16S
ATOM  27329  C8  G  A1294     263.322 139.113 -10.058  1.00 68.26      A16S
ATOM  27330  C2* G  A1294     266.252 137.469  -9.578  1.00 80.51      A16S
ATOM  27331  O2* G  A1294     267.351 137.001  -8.814  1.00 80.51      A16S
ATOM  27332  C3* G  A1294     266.647 138.285 -10.803  1.00 80.51      A16S
ATOM  27333  O3* G  A1294     267.750 137.733 -11.492  1.00 80.51      A16S
ATOM  27334  P   G  A1295     267.487 136.654 -12.654  1.00 65.47      A16S
ATOM  27335  O1P G  A1295     268.806 136.299 -13.240  1.00 72.49      A16S
ATOM  27336  O2P G  A1295     266.400 137.177 -13.538  1.00 72.49      A16S
ATOM  27337  O5* G  A1295     266.979 135.370 -11.862  1.00 65.47      A16S
ATOM  27338  C5* G  A1295     267.804 134.804 -10.840  1.00 65.47      A16S
ATOM  27339  C4* G  A1295     267.083 133.705 -10.113  1.00 65.47      A16S
ATOM  27340  O4* G  A1295     265.930 134.239  -9.418  1.00 65.47      A16S
ATOM  27341  C1* G  A1295     264.925 133.242  -9.330  1.00 65.47      A16S
ATOM  27342  N9  G  A1295     263.703 133.727  -9.973  1.00 72.49      A16S
ATOM  27343  C4  G  A1295     262.486 133.082  -9.983  1.00 72.49      A16S
ATOM  27344  N3  G  A1295     262.222 131.883  -9.429  1.00 72.49      A16S
ATOM  27345  C2  G  A1295     260.963 131.535  -9.588  1.00 72.49      A16S
ATOM  27346  N2  G  A1295     260.536 130.362  -9.113  1.00 72.49      A16S
ATOM  27347  N1  G  A1295     260.033 132.306 -10.227  1.00 72.49      A16S
ATOM  27348  C6  G  A1295     260.282 133.542 -10.801  1.00 72.49      A16S
ATOM  27349  O6  G  A1295     259.371 134.155 -11.345  1.00 72.49      A16S
ATOM  27350  C5  G  A1295     261.630 133.924 -10.655  1.00 72.49      A16S
ATOM  27351  N7  G  A1295     262.294 135.063 -11.086  1.00 72.49      A16S
ATOM  27352  C8  G  A1295     263.520 134.903 -10.663  1.00 72.49      A16S
ATOM  27353  C2* G  A1295     265.477 131.989  -9.998  1.00 65.47      A16S
ATOM  27354  O2* G  A1295     266.088 131.186  -9.005  1.00 65.47      A16S
ATOM  27355  C3* G  A1295     266.500 132.587 -10.950  1.00 65.47      A16S
ATOM  27356  O3* G  A1295     267.462 131.646 -11.374  1.00 65.47      A16S
ATOM  27357  P   C  A1296     267.304 130.978 -12.826  1.00 80.23      A16S
ATOM  27358  O1P C  A1296     268.522 130.176 -13.068  1.00 43.81      A16S
ATOM  27359  O2P C  A1296     266.904 132.036 -13.802  1.00 43.81      A16S
ATOM  27360  O5* C  A1296     266.091 129.964 -12.647  1.00 80.23      A16S
ATOM  27361  C5* C  A1296     266.172 128.886 -11.693  1.00 80.23      A16S
ATOM  27362  C4* C  A1296     264.911 128.060 -11.728  1.00 80.23      A16S
ATOM  27363  O4* C  A1296     263.801 128.844 -11.241  1.00 80.23      A16S
ATOM  27364  C1* C  A1296     262.639 128.531 -11.977  1.00 80.23      A16S
ATOM  27365  N1  C  A1296     262.171 129.768 -12.622  1.00 43.81      A16S
ATOM  27366  C6  C  A1296     263.061 130.696 -13.076  1.00 43.81      A16S
ATOM  27367  C2  C  A1296     260.795 129.982 -12.768  1.00 43.81      A16S
ATOM  27368  O2  C  A1296     260.007 129.128 -12.334  1.00 43.81      A16S
ATOM  27369  N3  C  A1296     260.361 131.113 -13.375  1.00 43.81      A16S
ATOM  27370  C4  C  A1296     261.246 132.011 -13.816  1.00 43.81      A16S
ATOM  27371  N4  C  A1296     260.788 133.112 -14.416  1.00 43.81      A16S
ATOM  27372  C5  C  A1296     262.646 131.821 -13.668  1.00 43.81      A16S
ATOM  27373  C2* C  A1296     262.988 127.411 -12.963  1.00 80.23      A16S
ATOM  27374  O2* C  A1296     262.655 126.155 -12.404  1.00 80.23      A16S
ATOM  27375  C3* C  A1296     264.493 127.573 -13.104  1.00 80.23      A16S
ATOM  27376  O3* C  A1296     265.113 126.320 -13.356  1.00 80.23      A16S
ATOM  27377  P   C  A1297     266.105 126.155 -14.601  1.00 41.53      A16S
ATOM  27378  O1P C  A1297     266.805 124.868 -14.361  1.00 58.02      A16S
ATOM  27379  O2P C  A1297     266.890 127.401 -14.801  1.00 58.02      A16S
ATOM  27380  O5* C  A1297     265.123 126.014 -15.841  1.00 41.53      A16S
ATOM  27381  C5* C  A1297     264.146 124.974 -15.871  1.00 41.53      A16S
ATOM  27382  C4* C  A1297     263.120 125.263 -16.923  1.00 41.53      A16S
ATOM  27383  O4* C  A1297     262.552 126.572 -16.651  1.00 41.53      A16S
ATOM  27384  C1* C  A1297     262.526 127.321 -17.845  1.00 41.53      A16S
ATOM  27385  N1  C  A1297     262.717 128.742 -17.540  1.00 58.02      A16S
ATOM  27386  C6  C  A1297     263.592 129.146 -16.576  1.00 58.02      A16S
ATOM  27387  C2  C  A1297     261.986 129.682 -18.272  1.00 58.02      A16S
ATOM  27388  O2  C  A1297     261.199 129.291 -19.143  1.00 58.02      A16S
ATOM  27389  N3  C  A1297     262.152 130.989 -18.018  1.00 58.02      A16S
ATOM  27390  C4  C  A1297     263.012 131.379 -17.079  1.00 58.02      A16S
ATOM  27391  N4  C  A1297     263.142 132.698 -16.861  1.00 58.02      A16S
ATOM  27392  C5  C  A1297     263.774 130.441 -16.318  1.00 58.02      A16S
ATOM  27393  C2* C  A1297     263.632 126.761 -18.730  1.00 41.53      A16S
ATOM  27394  O2* C  A1297     263.294 127.015 -20.081  1.00 41.53      A16S
ATOM  27395  C3* C  A1297     263.600 125.279 -18.374  1.00 41.53      A16S
ATOM  27396  O3* C  A1297     262.633 124.667 -19.200  1.00 41.53      A16S
ATOM  27397  P   C  A1298     263.080 123.553 -20.257  1.00 52.10      A16S
ATOM  27398  O1P C  A1298     264.126 122.724 -19.591  1.00 54.98      A16S
ATOM  27399  O2P C  A1298     263.352 124.171 -21.579  1.00 54.98      A16S
ATOM  27400  O5* C  A1298     261.775 122.663 -20.384  1.00 52.10      A16S
ATOM  27401  C5* C  A1298     261.408 121.786 -19.311  1.00 52.10      A16S
ATOM  27402  C4* C  A1298     259.914 121.666 -19.216  1.00 52.10      A16S
ATOM  27403  O4* C  A1298     259.336 122.855 -18.613  1.00 52.10      A16S
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ATOM  27404  C1* C   A1298     258.246 123.277 -19.390  1.00 52.10      A16S
ATOM  27405  N1  C   A1298     258.061 124.729 -19.242  1.00 54.98      A16S
ATOM  27406  C6  C   A1298     259.117 125.559 -19.016  1.00 54.98      A16S
ATOM  27407  C2  C   A1298     256.774 125.252 -19.368  1.00 54.98      A16S
ATOM  27408  O2  C   A1298     255.822 124.473 -19.501  1.00 54.98      A16S
ATOM  27409  N3  C   A1298     256.593 126.590 -19.334  1.00 54.98      A16S
ATOM  27410  C4  C   A1298     257.638 127.395 -19.162  1.00 54.98      A16S
ATOM  27411  N4  C   A1298     257.425 128.713 -19.191  1.00 54.98      A16S
ATOM  27412  C5  C   A1298     258.951 126.887 -18.969  1.00 54.98      A16S
ATOM  27413  C2* C   A1298     258.565 122.806 -20.805  1.00 52.10      A16S
ATOM  27414  O2* C   A1298     257.386 122.733 -21.569  1.00 52.10      A16S
ATOM  27415  C3* C   A1298     259.189 121.442 -20.531  1.00 52.10      A16S
ATOM  27416  O3* C   A1298     258.168 120.488 -20.296  1.00 52.10      A16S
ATOM  27417  P   A   A1299     258.090 119.150 -21.186  1.00 43.30      A16S
ATOM  27418  O1P A   A1299     256.669 119.039 -21.624  1.00 71.59      A16S
ATOM  27419  O2P A   A1299     259.176 119.149 -22.206  1.00 71.59      A16S
ATOM  27420  O5* A   A1299     258.363 117.978 -20.145  1.00 43.30      A16S
ATOM  27421  C5* A   A1299     259.692 117.526 -19.896  1.00 43.30      A16S
ATOM  27422  C4* A   A1299     260.007 117.610 -18.425  1.00 43.30      A16S
ATOM  27423  O4* A   A1299     259.997 118.979 -17.986  1.00 43.30      A16S
ATOM  27424  C1* A   A1299     259.988 118.973 -16.583  1.00 43.30      A16S
ATOM  27425  N9  A   A1299     259.576 120.285 -16.084  1.00 71.59      A16S
ATOM  27426  C4  A   A1299     258.424 120.983 -16.327  1.00 71.59      A16S
ATOM  27427  N3  A   A1299     257.351 120.566 -17.012  1.00 71.59      A16S
ATOM  27428  C2  A   A1299     256.447 121.544 -17.095  1.00 71.59      A16S
ATOM  27429  N1  A   A1299     256.501 122.800 -16.613  1.00 71.59      A16S
ATOM  27430  C6  A   A1299     257.604 123.183 -15.938  1.00 71.59      A16S
ATOM  27431  N6  A   A1299     257.677 124.434 -15.492  1.00 71.59      A16S
ATOM  27432  C5  A   A1299     258.618 122.236 -15.763  1.00 71.59      A16S
ATOM  27433  N7  A   A1299     259.840 122.301 -15.119  1.00 71.59      A16S
ATOM  27434  C8  A   A1299     260.360 121.119 -15.322  1.00 71.59      A16S
ATOM  27435  C2* A   A1299     259.371 117.654 -16.115  1.00 43.30      A16S
ATOM  27436  O2* A   A1299     260.388 116.976 -15.411  1.00 43.30      A16S
ATOM  27437  C3* A   A1299     259.050 116.950 -17.446  1.00 43.30      A16S
ATOM  27438  O3* A   A1299     259.355 115.559 -17.395  1.00 43.30      A16S
ATOM  27439  P   G   A1300     258.230 114.497 -16.972  1.00 73.78      A16S
ATOM  27440  O1P G   A1300     258.136 113.497 -18.050  1.00 47.96      A16S
ATOM  27441  O2P G   A1300     257.022 115.250 -16.568  1.00 47.96      A16S
ATOM  27442  O5* G   A1300     258.905 113.774 -15.720  1.00 73.78      A16S
ATOM  27443  C5* G   A1300     258.160 113.389 -14.536  1.00 73.78      A16S
ATOM  27444  C4* G   A1300     257.842 114.606 -13.693  1.00 73.78      A16S
ATOM  27445  O4* G   A1300     256.529 115.053 -14.090  1.00 73.78      A16S
ATOM  27446  C1* G   A1300     255.814 115.499 -12.968  1.00 73.78      A16S
ATOM  27447  N9  G   A1300     254.524 114.811 -12.931  1.00 47.96      A16S
ATOM  27448  C4  G   A1300     253.301 115.431 -12.989  1.00 47.96      A16S
ATOM  27449  N3  G   A1300     253.099 116.765 -13.029  1.00 47.96      A16S
ATOM  27450  C2  G   A1300     251.825 117.066 -13.110  1.00 47.96      A16S
ATOM  27451  N2  G   A1300     251.455 118.355 -13.155  1.00 47.96      A16S
ATOM  27452  N1  G   A1300     250.822 116.127 -13.155  1.00 47.96      A16S
ATOM  27453  C6  G   A1300     251.009 114.751 -13.126  1.00 47.96      A16S
ATOM  27454  O6  G   A1300     250.038 113.998 -13.205  1.00 47.96      A16S
ATOM  27455  C5  G   A1300     252.374 114.416 -13.021  1.00 47.96      A16S
ATOM  27456  N7  G   A1300     252.995 113.177 -12.944  1.00 47.96      A16S
ATOM  27457  C8  G   A1300     254.271 113.460 -12.881  1.00 47.96      A16S
ATOM  27458  C2* G   A1300     256.720 115.413 -11.742  1.00 73.78      A16S
ATOM  27459  O2* G   A1300     257.271 116.696 -11.540  1.00 73.78      A16S
ATOM  27460  C3* G   A1300     257.766 114.395 -12.182  1.00 73.78      A16S
ATOM  27461  O3* G   A1300     259.088 114.591 -11.620  1.00 73.78      A16S
ATOM  27462  P   U   A1301     259.319 115.469 -10.269  1.00 49.26      A16S
ATOM  27463  O1P U   A1301     260.600 114.990  -9.702  1.00 64.83      A16S
ATOM  27464  O2P U   A1301     258.110 115.463  -9.403  1.00 64.83      A16S
ATOM  27465  O5* U   A1301     259.571 116.956 -10.803  1.00 49.26      A16S
ATOM  27466  C5* U   A1301     260.792 117.293 -11.498  1.00 49.26      A16S
ATOM  27467  C4* U   A1301     260.862 118.778 -11.759  1.00 49.26      A16S
ATOM  27468  O4* U   A1301     259.818 119.116 -12.682  1.00 49.26      A16S
ATOM  27469  C1* U   A1301     259.302 120.387 -12.372  1.00 49.26      A16S
ATOM  27470  N1  U   A1301     257.850 120.356 -12.595  1.00 64.83      A16S
ATOM  27471  C6  U   A1301     257.155 119.174 -12.536  1.00 64.83      A16S
ATOM  27472  C2  U   A1301     257.210 121.536 -12.905  1.00 64.83      A16S
ATOM  27473  O2  U   A1301     257.775 122.611 -12.922  1.00 64.83      A16S
ATOM  27474  N3  U   A1301     255.877 121.408 -13.195  1.00 64.83      A16S
ATOM  27475  C4  U   A1301     255.130 120.243 -13.193  1.00 64.83      A16S
ATOM  27476  O4  U   A1301     253.966 120.263 -13.599  1.00 64.83      A16S
ATOM  27477  C5  U   A1301     255.856 119.079 -12.816  1.00 64.83      A16S
ATOM  27478  C2* U   A1301     259.833 120.855 -11.009  1.00 49.26      A16S
ATOM  27479  O2* U   A1301     260.474 122.107 -11.128  1.00 49.26      A16S
ATOM  27480  C3* U   A1301     260.652 119.645 -10.526  1.00 49.26      A16S
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ATOM  27481  O3* U   A1301     261.928 119.802  -9.826  1.00 49.26      A16S
ATOM  27482  P    U   A1302     262.819 121.149  -9.950  1.00 47.77      A16S
ATOM  27483  O1P U   A1302     262.955 121.554 -11.371  1.00 83.93      A16S
ATOM  27484  O2P U   A1302     264.029 120.875  -9.160  1.00 83.93      A16S
ATOM  27485  O5* U   A1302     261.980 122.243  -9.154  1.00 47.77      A16S
ATOM  27486  C5* U   A1302     261.451 121.930  -7.851  1.00 47.77      A16S
ATOM  27487  C4* U   A1302     260.825 123.149  -7.200  1.00 47.77      A16S
ATOM  27488  O4* U   A1302     261.832 124.171  -6.962  1.00 47.77      A16S
ATOM  27489  C1* U   A1302     261.353 125.407  -7.438  1.00 47.77      A16S
ATOM  27490  N1   U   A1302     262.497 126.246  -7.823  1.00 83.93      A16S
ATOM  27491  C6   U   A1302     263.466 125.804  -8.695  1.00 83.93      A16S
ATOM  27492  C2   U   A1302     262.571 127.512  -7.257  1.00 83.93      A16S
ATOM  27493  O2   U   A1302     261.731 127.947  -6.479  1.00 83.93      A16S
ATOM  27494  N3   U   A1302     263.664 128.250  -7.630  1.00 83.93      A16S
ATOM  27495  C4   U   A1302     264.670 127.865  -8.484  1.00 83.93      A16S
ATOM  27496  O4   U   A1302     265.608 128.634  -8.690  1.00 83.93      A16S
ATOM  27497  C5   U   A1302     264.522 126.548  -9.033  1.00 83.93      A16S
ATOM  27498  C2* U   A1302     260.319 125.077  -8.516  1.00 47.77      A16S
ATOM  27499  O2* U   A1302     259.430 126.168  -8.700  1.00 47.77      A16S
ATOM  27500  C3* U   A1302     259.660 123.833  -7.914  1.00 47.77      A16S
ATOM  27501  O3* U   A1302     258.729 124.263  -6.909  1.00 47.77      A16S
ATOM  27502  P    C   A1303     257.505 123.309  -6.463  1.00 53.69      A16S
ATOM  27503  O1P C   A1303     256.817 124.025  -5.346  1.00 33.18      A16S
ATOM  27504  O2P C   A1303     257.987 121.903  -6.256  1.00 33.18      A16S
ATOM  27505  O5* C   A1303     256.527 123.289  -7.724  1.00 53.69      A16S
ATOM  27506  C5* C   A1303     256.231 124.485  -8.475  1.00 53.69      A16S
ATOM  27507  C4* C   A1303     255.041 124.249  -9.375  1.00 53.69      A16S
ATOM  27508  O4* C   A1303     255.343 123.182 -10.310  1.00 53.69      A16S
ATOM  27509  C1* C   A1303     254.193 122.376 -10.514  1.00 53.69      A16S
ATOM  27510  N1   C   A1303     254.496 120.994 -10.074  1.00 33.18      A16S
ATOM  27511  C6   C   A1303     255.746 120.647  -9.657  1.00 33.18      A16S
ATOM  27512  C2   C   A1303     253.488 120.038 -10.104  1.00 33.18      A16S
ATOM  27513  O2   C   A1303     252.351 120.380 -10.440  1.00 33.18      A16S
ATOM  27514  N3   C   A1303     253.769 118.765  -9.759  1.00 33.18      A16S
ATOM  27515  C4   C   A1303     254.992 118.436  -9.377  1.00 33.18      A16S
ATOM  27516  N4   C   A1303     255.223 117.175  -9.063  1.00 33.18      A16S
ATOM  27517  C5   C   A1303     256.032 119.388  -9.303  1.00 33.18      A16S
ATOM  27518  C2* C   A1303     253.045 123.015  -9.740  1.00 53.69      A16S
ATOM  27519  O2* C   A1303     252.318 123.876 -10.586  1.00 53.69      A16S
ATOM  27520  C3* C   A1303     253.799 123.762  -8.656  1.00 53.69      A16S
ATOM  27521  O3* C   A1303     253.041 124.817  -8.109  1.00 53.69      A16S
ATOM  27522  P    G   A1304     252.577 124.727  -6.581  1.00 48.49      A16S
ATOM  27523  O1P G   A1304     251.440 125.677  -6.442  1.00 45.89      A16S
ATOM  27524  O2P G   A1304     253.790 124.876  -5.714  1.00 45.89      A16S
ATOM  27525  O5* G   A1304     252.021 123.238  -6.446  1.00 48.49      A16S
ATOM  27526  C5* G   A1304     250.761 122.862  -7.047  1.00 48.49      A16S
ATOM  27527  C4* G   A1304     250.355 121.482  -6.592  1.00 48.49      A16S
ATOM  27528  O4* G   A1304     251.119 120.477  -7.296  1.00 48.49      A16S
ATOM  27529  C1* G   A1304     251.396 119.391  -6.430  1.00 48.49      A16S
ATOM  27530  N9   G   A1304     252.844 119.241  -6.366  1.00 45.89      A16S
ATOM  27531  C4   G   A1304     253.563 118.073  -6.283  1.00 45.89      A16S
ATOM  27532  N3   G   A1304     253.056 116.824  -6.268  1.00 45.89      A16S
ATOM  27533  C2   G   A1304     254.004 115.907  -6.146  1.00 45.89      A16S
ATOM  27534  N2   G   A1304     253.680 114.603  -6.117  1.00 45.89      A16S
ATOM  27535  N1   G   A1304     255.341 116.200  -6.046  1.00 45.89      A16S
ATOM  27536  C6   G   A1304     255.883 117.483  -6.070  1.00 45.89      A16S
ATOM  27537  O6   G   A1304     257.115 117.648  -5.971  1.00 45.89      A16S
ATOM  27538  C5   G   A1304     254.881 118.463  -6.203  1.00 45.89      A16S
ATOM  27539  N7   G   A1304     254.991 119.842  -6.260  1.00 45.89      A16S
ATOM  27540  C8   G   A1304     253.763 120.260  -6.361  1.00 45.89      A16S
ATOM  27541  C2* G   A1304     250.747 119.694  -5.074  1.00 48.49      A16S
ATOM  27542  O2* G   A1304     249.507 119.032  -4.978  1.00 48.49      A16S
ATOM  27543  C3* G   A1304     250.591 121.209  -5.123  1.00 48.49      A16S
ATOM  27544  O3* G   A1304     249.479 121.660  -4.379  1.00 48.49      A16S
ATOM  27545  P    G   A1305     249.698 122.528  -3.044  1.00 38.60      A16S
ATOM  27546  O1P G   A1305     248.907 123.772  -3.219  1.00 78.37      A16S
ATOM  27547  O2P G   A1305     251.128 122.616  -2.688  1.00 78.37      A16S
ATOM  27548  O5* G   A1305     248.929 121.681  -1.942  1.00 38.60      A16S
ATOM  27549  C5* G   A1305     249.544 121.274  -0.731  1.00 38.60      A16S
ATOM  27550  C4* G   A1305     249.443 119.784  -0.607  1.00 38.60      A16S
ATOM  27551  O4* G   A1305     250.281 119.229  -1.635  1.00 38.60      A16S
ATOM  27552  C1* G   A1305     251.432 118.660  -1.053  1.00 38.60      A16S
ATOM  27553  N9   G   A1305     252.588 119.342  -1.613  1.00 78.37      A16S
ATOM  27554  C4   G   A1305     253.671 118.762  -2.198  1.00 78.37      A16S
ATOM  27555  N3   G   A1305     253.852 117.448  -2.376  1.00 78.37      A16S
ATOM  27556  C2   G   A1305     254.982 117.196  -2.984  1.00 78.37      A16S
ATOM  27557  N2   G   A1305     255.295 115.961  -3.284  1.00 78.37      A16S
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ATOM  27558  N1  G  A1305     255.886 118.150  -3.360  1.00 78.37      A16S
ATOM  27559  C6  G  A1305     255.723 119.515  -3.184  1.00 78.37      A16S
ATOM  27560  O6  G  A1305     256.603 120.304  -3.573  1.00 78.37      A16S
ATOM  27561  C5  G  A1305     254.500 119.803  -2.553  1.00 78.37      A16S
ATOM  27562  N7  G  A1305     253.941 121.018  -2.200  1.00 78.37      A16S
ATOM  27563  C8  G  A1305     252.808 120.696  -1.644  1.00 78.37      A16S
ATOM  27564  C2* G  A1305     251.391 118.904   0.455  1.00 38.60      A16S
ATOM  27565  O2* G  A1305     251.827 117.759   1.149  1.00 38.60      A16S
ATOM  27566  C3* G  A1305     249.926 119.208   0.715  1.00 38.60      A16S
ATOM  27567  O3* G  A1305     249.231 118.005   1.024  1.00 38.60      A16S
ATOM  27568  P   A  A1306     248.979 117.606   2.563  1.00 46.83      A16S
ATOM  27569  O1P A  A1306     247.896 118.508   3.054  1.00 46.85      A16S
ATOM  27570  O2P A  A1306     250.276 117.573   3.281  1.00 46.85      A16S
ATOM  27571  O5* A  A1306     248.471 116.095   2.502  1.00 46.83      A16S
ATOM  27572  C5* A  A1306     247.199 115.759   1.929  1.00 46.83      A16S
ATOM  27573  C4* A  A1306     247.264 114.405   1.262  1.00 46.83      A16S
ATOM  27574  O4* A  A1306     248.107 114.476   0.090  1.00 46.83      A16S
ATOM  27575  C1* A  A1306     248.811 113.256  -0.065  1.00 46.83      A16S
ATOM  27576  N9  A  A1306     250.241 113.539   0.035  1.00 46.85      A16S
ATOM  27577  C4  A  A1306     251.265 112.627  -0.072  1.00 46.85      A16S
ATOM  27578  N3  A  A1306     251.165 111.309  -0.302  1.00 46.85      A16S
ATOM  27579  C2  A  A1306     252.365 110.743  -0.329  1.00 46.85      A16S
ATOM  27580  N1  A  A1306     253.567 111.298  -0.164  1.00 46.85      A16S
ATOM  27581  C6  A  A1306     253.639 112.624   0.066  1.00 46.85      A16S
ATOM  27582  N6  A  A1306     254.841 113.177   0.236  1.00 46.85      A16S
ATOM  27583  C5  A  A1306     252.428 113.345   0.115  1.00 46.85      A16S
ATOM  27584  N7  A  A1306     252.146 114.691   0.321  1.00 46.85      A16S
ATOM  27585  C8  A  A1306     250.840 114.752   0.263  1.00 46.85      A16S
ATOM  27586  C2* A  A1306     248.339 112.301   1.032  1.00 46.83      A16S
ATOM  27587  O2* A  A1306     247.295 111.489   0.530  1.00 46.83      A16S
ATOM  27588  C3* A  A1306     247.854 113.274   2.092  1.00 46.83      A16S
ATOM  27589  O3* A  A1306     246.890 112.680   2.939  1.00 46.83      A16S
ATOM  27590  P   U  A1307     247.226 112.482   4.488  1.00 50.87      A16S
ATOM  27591  O1P U  A1307     245.977 112.080   5.177  1.00 68.63      A16S
ATOM  27592  O2P U  A1307     247.947 113.704   4.936  1.00 68.63      A16S
ATOM  27593  O5* U  A1307     248.246 111.262   4.504  1.00 50.87      A16S
ATOM  27594  C5* U  A1307     247.967 110.078   3.765  1.00 50.87      A16S
ATOM  27595  C4* U  A1307     249.239 109.313   3.500  1.00 50.87      A16S
ATOM  27596  O4* U  A1307     250.085 110.008   2.546  1.00 50.87      A16S
ATOM  27597  C1* U  A1307     251.450 109.746   2.842  1.00 50.87      A16S
ATOM  27598  N1  U  A1307     252.161 111.021   3.031  1.00 68.63      A16S
ATOM  27599  C6  U  A1307     251.488 112.198   3.222  1.00 68.63      A16S
ATOM  27600  C2  U  A1307     253.546 110.994   3.024  1.00 68.63      A16S
ATOM  27601  O2  U  A1307     254.195 109.975   2.830  1.00 68.63      A16S
ATOM  27602  N3  U  A1307     254.148 112.202   3.245  1.00 68.63      A16S
ATOM  27603  C4  U  A1307     253.533 113.405   3.454  1.00 68.63      A16S
ATOM  27604  O4  U  A1307     254.217 114.404   3.650  1.00 68.63      A16S
ATOM  27605  C5  U  A1307     252.110 113.358   3.426  1.00 68.63      A16S
ATOM  27606  C2* U  A1307     251.499 108.861   4.090  1.00 50.87      A16S
ATOM  27607  O2* U  A1307     251.715 107.518   3.721  1.00 50.87      A16S
ATOM  27608  C3* U  A1307     250.128 109.109   4.706  1.00 50.87      A16S
ATOM  27609  O3* U  A1307     249.677 108.037   5.510  1.00 50.87      A16S
ATOM  27610  P   U  A1308     249.801 108.158   7.099  1.00 74.07      A16S
ATOM  27611  O1P U  A1308     249.068 107.024   7.723  1.00 50.03      A16S
ATOM  27612  O2P U  A1308     249.434 109.561   7.446  1.00 50.03      A16S
ATOM  27613  O5* U  A1308     251.359 107.941   7.337  1.00 74.07      A16S
ATOM  27614  C5* U  A1308     252.004 106.740   6.872  1.00 74.07      A16S
ATOM  27615  C4* U  A1308     253.507 106.854   6.990  1.00 74.07      A16S
ATOM  27616  O4* U  A1308     254.024 107.772   5.993  1.00 74.07      A16S
ATOM  27617  C1* U  A1308     255.188 108.408   6.493  1.00 74.07      A16S
ATOM  27618  N1  U  A1308     254.967 109.862   6.523  1.00 50.03      A16S
ATOM  27619  C6  U  A1308     253.704 110.392   6.487  1.00 50.03      A16S
ATOM  27620  C2  U  A1308     256.085 110.692   6.610  1.00 50.03      A16S
ATOM  27621  O2  U  A1308     257.238 110.275   6.607  1.00 50.03      A16S
ATOM  27622  N3  U  A1308     255.806 112.034   6.695  1.00 50.03      A16S
ATOM  27623  C4  U  A1308     254.564 112.624   6.687  1.00 50.03      A16S
ATOM  27624  O4  U  A1308     254.471 113.849   6.852  1.00 50.03      A16S
ATOM  27625  C5  U  A1308     253.470 111.704   6.561  1.00 50.03      A16S
ATOM  27626  C2* U  A1308     255.445 107.862   7.896  1.00 74.07      A16S
ATOM  27627  O2* U  A1308     256.371 106.798   7.840  1.00 74.07      A16S
ATOM  27628  C3* U  A1308     254.063 107.381   8.302  1.00 74.07      A16S
ATOM  27629  O3* U  A1308     254.149 106.399   9.318  1.00 74.07      A16S
ATOM  27630  P   G  A1309     254.512 106.850  10.817  1.00 87.75      A16S
ATOM  27631  O1P G  A1309     254.299 105.656  11.686  1.00 49.49      A16S
ATOM  27632  O2P G  A1309     253.803 108.124  11.117  1.00 49.49      A16S
ATOM  27633  O5* G  A1309     256.070 107.186  10.759  1.00 87.75      A16S
ATOM  27634  C5* G  A1309     257.047 106.135  10.648  1.00 87.75      A16S
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ATOM  27635  C4* G   A1309     258.450 106.698  10.704  1.00 87.75      A16S
ATOM  27636  O4* G   A1309     258.653 107.601   9.586  1.00 87.75      A16S
ATOM  27637  C1* G   A1309     259.531 108.647   9.967  1.00 87.75      A16S
ATOM  27638  N9  G   A1309     258.804 109.908   9.904  1.00 49.49      A16S
ATOM  27639  C4  G   A1309     259.348 111.168   9.885  1.00 49.49      A16S
ATOM  27640  N3  G   A1309     260.660 111.465   9.900  1.00 49.49      A16S
ATOM  27641  C2  G   A1309     260.872 112.775   9.901  1.00 49.49      A16S
ATOM  27642  N2  G   A1309     262.130 113.251   9.918  1.00 49.49      A16S
ATOM  27643  N1  G   A1309     259.872 113.715   9.884  1.00 49.49      A16S
ATOM  27644  C6  G   A1309     258.516 113.431   9.857  1.00 49.49      A16S
ATOM  27645  O6  G   A1309     257.698 114.353   9.827  1.00 49.49      A16S
ATOM  27646  C5  G   A1309     258.276 112.029   9.865  1.00 49.49      A16S
ATOM  27647  N7  G   A1309     257.083 111.326   9.861  1.00 49.49      A16S
ATOM  27648  C8  G   A1309     257.446 110.074   9.880  1.00 49.49      A16S
ATOM  27649  C2* G   A1309     259.974 108.373  11.401  1.00 87.75      A16S
ATOM  27650  O2* G   A1309     261.203 107.674  11.390  1.00 87.75      A16S
ATOM  27651  C3* G   A1309     258.814 107.535  11.921  1.00 87.75      A16S
ATOM  27652  O3* G   A1309     259.183 106.770  13.062  1.00 87.75      A16S
ATOM  27653  P   G   A1310     259.001 107.407  14.532  1.00 81.77      A16S
ATOM  27654  O1P G   A1310     259.624 106.454  15.488  1.00 68.01      A16S
ATOM  27655  O2P G   A1310     257.582 107.807  14.714  1.00 68.01      A16S
ATOM  27656  O5* G   A1310     259.867 108.749  14.494  1.00 81.77      A16S
ATOM  27657  C5* G   A1310     261.305 108.695  14.390  1.00 81.77      A16S
ATOM  27658  C4* G   A1310     261.916 110.078  14.501  1.00 81.77      A16S
ATOM  27659  O4* G   A1310     261.642 110.871  13.316  1.00 81.77      A16S
ATOM  27660  C1* G   A1310     261.606 112.249  13.664  1.00 81.77      A16S
ATOM  27661  N9  G   A1310     260.303 112.805  13.302  1.00 68.01      A16S
ATOM  27662  C4  G   A1310     260.005 114.137  13.096  1.00 68.01      A16S
ATOM  27663  N3  G   A1310     260.873 115.167  13.156  1.00 68.01      A16S
ATOM  27664  C2  G   A1310     260.274 116.332  12.950  1.00 68.01      A16S
ATOM  27665  N2  G   A1310     260.982 117.465  12.989  1.00 68.01      A16S
ATOM  27666  N1  G   A1310     258.937 116.474  12.697  1.00 68.01      A16S
ATOM  27667  C6  G   A1310     258.024 115.431  12.630  1.00 68.01      A16S
ATOM  27668  O6  G   A1310     256.828 115.671  12.408  1.00 68.01      A16S
ATOM  27669  C5  G   A1310     258.650 114.173  12.851  1.00 68.01      A16S
ATOM  27670  N7  G   A1310     258.111 112.895  12.870  1.00 68.01      A16S
ATOM  27671  C8  G   A1310     259.126 112.118  13.134  1.00 68.01      A16S
ATOM  27672  C2* G   A1310     261.857 112.349  15.170  1.00 81.77      A16S
ATOM  27673  O2* G   A1310     263.225 112.621  15.395  1.00 81.77      A16S
ATOM  27674  C3* G   A1310     261.459 110.958  15.651  1.00 81.77      A16S
ATOM  27675  O3* G   A1310     262.092 110.623  16.875  1.00 81.77      A16S
ATOM  27676  P   G   A1311     261.392 111.028  18.268  1.00 84.32      A16S
ATOM  27677  O1P G   A1311     262.138 110.293  19.323  1.00 68.29      A16S
ATOM  27678  O2P G   A1311     259.918 110.853  18.166  1.00 68.29      A16S
ATOM  27679  O5* G   A1311     261.678 112.593  18.402  1.00 84.32      A16S
ATOM  27680  C5* G   A1311     263.025 113.085  18.495  1.00 84.32      A16S
ATOM  27681  C4* G   A1311     263.057 114.587  18.349  1.00 84.32      A16S
ATOM  27682  O4* G   A1311     262.568 114.970  17.040  1.00 84.32      A16S
ATOM  27683  C1* G   A1311     261.940 116.241  17.121  1.00 84.32      A16S
ATOM  27684  N9  G   A1311     260.562 116.128  16.649  1.00 68.29      A16S
ATOM  27685  C4  G   A1311     259.736 117.180  16.336  1.00 68.29      A16S
ATOM  27686  N3  G   A1311     260.059 118.486  16.415  1.00 68.29      A16S
ATOM  27687  C2  G   A1311     259.056 119.265  16.055  1.00 68.29      A16S
ATOM  27688  N2  G   A1311     259.202 120.595  16.092  1.00 68.29      A16S
ATOM  27689  N1  G   A1311     257.834 118.800  15.637  1.00 68.29      A16S
ATOM  27690  C6  G   A1311     257.478 117.460  15.542  1.00 68.29      A16S
ATOM  27691  O6  G   A1311     256.347 117.151  15.151  1.00 68.29      A16S
ATOM  27692  C5  G   A1311     258.546 116.608  15.938  1.00 68.29      A16S
ATOM  27693  N7  G   A1311     258.620 115.220  16.005  1.00 68.29      A16S
ATOM  27694  C8  G   A1311     259.831 114.981  16.430  1.00 68.29      A16S
ATOM  27695  C2* G   A1311     262.000 116.704  18.574  1.00 84.32      A16S
ATOM  27696  O2* G   A1311     263.070 117.611  18.758  1.00 84.32      A16S
ATOM  27697  C3* G   A1311     262.195 115.385  19.307  1.00 84.32      A16S
ATOM  27698  O3* G   A1311     262.811 115.589  20.558  1.00 84.32      A16S
ATOM  27699  P   G   A1312     261.893 115.758  21.862  1.00 71.85      A16S
ATOM  27700  O1P G   A1312     262.843 116.073  22.958  1.00 67.38      A16S
ATOM  27701  O2P G   A1312     261.029 114.546  21.967  1.00 67.38      A16S
ATOM  27702  O5* G   A1312     260.999 117.057  21.564  1.00 71.85      A16S
ATOM  27703  C5* G   A1312     261.588 118.367  21.684  1.00 71.85      A16S
ATOM  27704  C4* G   A1312     260.663 119.469  21.197  1.00 71.85      A16S
ATOM  27705  O4* G   A1312     260.118 119.143  19.898  1.00 71.85      A16S
ATOM  27706  C1* G   A1312     258.978 119.953  19.662  1.00 71.85      A16S
ATOM  27707  N9  G   A1312     257.850 119.123  19.246  1.00 67.38      A16S
ATOM  27708  C4  G   A1312     256.668 119.594  18.719  1.00 67.38      A16S
ATOM  27709  N3  G   A1312     256.364 120.890  18.493  1.00 67.38      A16S
ATOM  27710  C2  G   A1312     255.155 121.031  17.988  1.00 67.38      A16S
ATOM  27711  N2  G   A1312     254.692 122.253  17.702  1.00 67.38      A16S
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ATOM  27712  N1  G  A1312     254.311 119.984  17.724  1.00 67.38      A16S
ATOM  27713  C6  G  A1312     254.604 118.643  17.946  1.00 67.38      A16S
ATOM  27714  O6  G  A1312     253.773 117.778  17.666  1.00 67.38      A16S
ATOM  27715  C5  G  A1312     255.898 118.477  18.491  1.00 67.38      A16S
ATOM  27716  N7  G  A1312     256.579 117.323  18.863  1.00 67.38      A16S
ATOM  27717  C8  G  A1312     257.731 117.753  19.303  1.00 67.38      A16S
ATOM  27718  C2* G  A1312     258.662 120.702  20.953  1.00 71.85      A16S
ATOM  27719  O2* G  A1312     259.128 122.033  20.838  1.00 71.85      A16S
ATOM  27720  C3* G  A1312     259.429 119.884  21.987  1.00 71.85      A16S
ATOM  27721  O3* G  A1312     259.704 120.713  23.114  1.00 71.85      A16S
ATOM  27722  P   U  A1313     258.547 120.985  24.201  1.00 75.05      A16S
ATOM  27723  O1P U  A1313     259.162 121.547  25.427  1.00 72.66      A16S
ATOM  27724  O2P U  A1313     257.745 119.743  24.291  1.00 72.66      A16S
ATOM  27725  O5* U  A1313     257.650 122.120  23.539  1.00 75.05      A16S
ATOM  27726  C5* U  A1313     258.181 123.434  23.351  1.00 75.05      A16S
ATOM  27727  C4* U  A1313     257.134 124.358  22.782  1.00 75.05      A16S
ATOM  27728  O4* U  A1313     256.685 123.837  21.507  1.00 75.05      A16S
ATOM  27729  C1* U  A1313     255.325 124.186  21.301  1.00 75.05      A16S
ATOM  27730  N1  U  A1313     254.534 122.953  21.162  1.00 72.66      A16S
ATOM  27731  C6  U  A1313     255.007 121.739  21.614  1.00 72.66      A16S
ATOM  27732  C2  U  A1313     253.288 123.052  20.553  1.00 72.66      A16S
ATOM  27733  O2  U  A1313     252.811 124.114  20.163  1.00 72.66      A16S
ATOM  27734  N3  U  A1313     252.616 121.864  20.427  1.00 72.66      A16S
ATOM  27735  C4  U  A1313     253.036 120.621  20.849  1.00 72.66      A16S
ATOM  27736  O4  U  A1313     252.298 119.653  20.689  1.00 72.66      A16S
ATOM  27737  C5  U  A1313     254.319 120.603  21.483  1.00 72.66      A16S
ATOM  27738  C2* U  A1313     254.873 125.013  22.501  1.00 75.05      A16S
ATOM  27739  O2* U  A1313     254.998 126.394  22.207  1.00 75.05      A16S
ATOM  27740  C3* U  A1313     255.846 124.544  23.572  1.00 75.05      A16S
ATOM  27741  O3* U  A1313     255.938 125.486  24.632  1.00 75.05      A16S
ATOM  27742  P   C  A1314     254.984 125.314  25.914  1.00103.58     A16S
ATOM  27743  O1P C  A1314     255.148 126.533  26.751  1.00 68.68      A16S
ATOM  27744  O2P C  A1314     255.228 123.973  26.510  1.00 68.68      A16S
ATOM  27745  O5* C  A1314     253.518 125.340  25.292  1.00103.58     A16S
ATOM  27746  C5* C  A1314     253.031 126.523  24.641  1.00103.58     A16S
ATOM  27747  C4* C  A1314     251.586 126.359  24.235  1.00103.58     A16S
ATOM  27748  O4* C  A1314     251.455 125.414  23.140  1.00103.58     A16S
ATOM  27749  C1* C  A1314     250.180 124.790  23.206  1.00103.58     A16S
ATOM  27750  N1  C  A1314     250.350 123.325  23.278  1.00 68.68      A16S
ATOM  27751  C6  C  A1314     251.545 122.774  23.633  1.00 68.68      A16S
ATOM  27752  C2  C  A1314     249.251 122.492  22.967  1.00 68.68      A16S
ATOM  27753  O2  C  A1314     248.158 123.008  22.668  1.00 68.68      A16S
ATOM  27754  N3  C  A1314     249.410 121.150  23.007  1.00 68.68      A16S
ATOM  27755  C4  C  A1314     250.587 120.629  23.347  1.00 68.68      A16S
ATOM  27756  N4  C  A1314     250.702 119.298  23.368  1.00 68.68      A16S
ATOM  27757  C5  C  A1314     251.705 121.446  23.681  1.00 68.68      A16S
ATOM  27758  C2* C  A1314     249.456 125.352  24.427  1.00103.58     A16S
ATOM  27759  O2* C  A1314     248.623 126.414  24.003  1.00103.58     A16S
ATOM  27760  C3* C  A1314     250.619 125.839  25.280  1.00103.58     A16S
ATOM  27761  O3* C  A1314     250.208 126.838  26.192  1.00103.58     A16S
ATOM  27762  P   U  A1315     249.497 126.402  27.564  1.00 88.52      A16S
ATOM  27763  O1P U  A1315     249.334 127.660  28.346  1.00 66.79      A16S
ATOM  27764  O2P U  A1315     250.211 125.236  28.161  1.00 66.79      A16S
ATOM  27765  O5* U  A1315     248.065 125.874  27.102  1.00 88.52      A16S
ATOM  27766  C5* U  A1315     247.072 126.779  26.568  1.00 88.52      A16S
ATOM  27767  C4* U  A1315     245.789 126.037  26.278  1.00 88.52      A16S
ATOM  27768  O4* U  A1315     245.997 125.109  25.192  1.00 88.52      A16S
ATOM  27769  C1* U  A1315     245.230 123.946  25.411  1.00 88.52      A16S
ATOM  27770  N1  U  A1315     246.138 122.798  25.435  1.00 66.79      A16S
ATOM  27771  C6  U  A1315     247.360 122.868  26.055  1.00 66.79      A16S
ATOM  27772  C2  U  A1315     245.723 121.641  24.804  1.00 66.79      A16S
ATOM  27773  O2  U  A1315     244.648 121.538  24.250  1.00 66.79      A16S
ATOM  27774  N3  U  A1315     246.618 120.605  24.844  1.00 66.79      A16S
ATOM  27775  C4  U  A1315     247.860 120.608  25.435  1.00 66.79      A16S
ATOM  27776  O4  U  A1315     248.570 119.604  25.355  1.00 66.79      A16S
ATOM  27777  C5  U  A1315     248.215 121.842  26.075  1.00 66.79      A16S
ATOM  27778  C2* U  A1315     244.446 124.120  26.709  1.00 88.52      A16S
ATOM  27779  O2* U  A1315     243.142 124.544  26.385  1.00 88.52      A16S
ATOM  27780  C3* U  A1315     245.255 125.194  27.422  1.00 88.52      A16S
ATOM  27781  O3* U  A1315     244.428 125.990  28.256  1.00 88.52      A16S
ATOM  27782  P   G  A1316     244.440 125.766  29.843  1.00 76.26      A16S
ATOM  27783  O1P G  A1316     243.412 126.702  30.377  1.00100.54     A16S
ATOM  27784  O2P G  A1316     245.838 125.840  30.343  1.00100.54     A16S
ATOM  27785  O5* G  A1316     243.937 124.266  30.041  1.00 76.26      A16S
ATOM  27786  C5* G  A1316     242.547 123.948  29.932  1.00 76.26      A16S
ATOM  27787  C4* G  A1316     242.366 122.469  29.743  1.00 76.26      A16S
ATOM  27788  O4* G  A1316     243.137 122.036  28.596  1.00 76.26      A16S
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ATOM  27789  C1* G   A1316     243.540 120.692  28.779  1.00 76.26      A16S
ATOM  27790  N9  G   A1316     244.993 120.621  28.705  1.00100.54      A16S
ATOM  27791  C4  G   A1316     245.731 119.508  28.385  1.00100.54      A16S
ATOM  27792  N3  G   A1316     245.236 118.307  28.016  1.00100.54      A16S
ATOM  27793  C2  G   A1316     246.196 117.423  27.809  1.00100.54      A16S
ATOM  27794  N2  G   A1316     245.886 116.179  27.430  1.00100.54      A16S
ATOM  27795  N1  G   A1316     247.531 117.695  27.958  1.00100.54      A16S
ATOM  27796  C6  G   A1316     248.056 118.923  28.341  1.00100.54      A16S
ATOM  27797  O6  G   A1316     249.271 119.059  28.462  1.00100.54      A16S
ATOM  27798  C5  G   A1316     247.044 119.881  28.552  1.00100.54      A16S
ATOM  27799  N7  G   A1316     247.134 121.215  28.924  1.00100.54      A16S
ATOM  27800  C8  G   A1316     245.894 121.616  28.990  1.00100.54      A16S
ATOM  27801  C2* G   A1316     243.048 120.238  30.155  1.00 76.26      A16S
ATOM  27802  O2* G   A1316     241.854 119.503  30.010  1.00 76.26      A16S
ATOM  27803  C3* G   A1316     242.843 121.571  30.869  1.00 76.26      A16S
ATOM  27804  O3* G   A1316     241.873 121.470  31.907  1.00 76.26      A16S
ATOM  27805  P   C   A1317     242.347 121.422  33.448  1.00 75.40      A16S
ATOM  27806  O1P C   A1317     243.100 122.686  33.670  1.00 80.51      A16S
ATOM  27807  O2P C   A1317     241.160 121.106  34.296  1.00 80.51      A16S
ATOM  27808  O5* C   A1317     243.338 120.171  33.548  1.00 75.40      A16S
ATOM  27809  C5* C   A1317     244.140 119.975  34.724  1.00 75.40      A16S
ATOM  27810  C4* C   A1317     244.360 118.500  35.012  1.00 75.40      A16S
ATOM  27811  O4* C   A1317     243.130 117.845  35.420  1.00 75.40      A16S
ATOM  27812  C1* C   A1317     243.192 116.463  35.082  1.00 75.40      A16S
ATOM  27813  N1  C   A1317     242.030 116.113  34.235  1.00 80.51      A16S
ATOM  27814  C6  C   A1317     241.349 117.080  33.543  1.00 80.51      A16S
ATOM  27815  C2  C   A1317     241.627 114.759  34.148  1.00 80.51      A16S
ATOM  27816  O2  C   A1317     242.267 113.889  34.759  1.00 80.51      A16S
ATOM  27817  N3  C   A1317     240.555 114.441  33.393  1.00 80.51      A16S
ATOM  27818  C4  C   A1317     239.892 115.399  32.733  1.00 80.51      A16S
ATOM  27819  N4  C   A1317     238.824 115.038  32.010  1.00 80.51      A16S
ATOM  27820  C5  C   A1317     240.289 116.772  32.789  1.00 80.51      A16S
ATOM  27821  C2* C   A1317     244.530 116.215  34.383  1.00 75.40      A16S
ATOM  27822  O2* C   A1317     245.451 115.679  35.313  1.00 75.40      A16S
ATOM  27823  C3* C   A1317     244.896 117.617  33.901  1.00 75.40      A16S
ATOM  27824  O3* C   A1317     246.293 117.765  33.714  1.00 75.40      A16S
ATOM  27825  P   A   A1318     246.857 118.032  32.237  1.00113.26      A16S
ATOM  27826  O1P A   A1318     248.346 118.086  32.297  1.00 63.79      A16S
ATOM  27827  O2P A   A1318     246.092 119.198  31.704  1.00 63.79      A16S
ATOM  27828  O5* A   A1318     246.468 116.696  31.459  1.00113.26      A16S
ATOM  27829  C5* A   A1318     246.947 115.429  31.942  1.00113.26      A16S
ATOM  27830  C4* A   A1318     246.156 114.284  31.352  1.00113.26      A16S
ATOM  27831  O4* A   A1318     244.753 114.452  31.649  1.00113.26      A16S
ATOM  27832  C1* A   A1318     243.979 113.955  30.577  1.00113.26      A16S
ATOM  27833  N9  A   A1318     243.155 115.055  30.080  1.00 63.79      A16S
ATOM  27834  C4  A   A1318     241.898 114.942  29.545  1.00 63.79      A16S
ATOM  27835  N3  A   A1318     241.198 113.813  29.344  1.00 63.79      A16S
ATOM  27836  C2  A   A1318     240.007 114.088  28.820  1.00 63.79      A16S
ATOM  27837  N1  A   A1318     239.473 115.272  28.500  1.00 63.79      A16S
ATOM  27838  C6  A   A1318     240.200 116.387  28.715  1.00 63.79      A16S
ATOM  27839  N6  A   A1318     239.659 117.567  28.399  1.00 63.79      A16S
ATOM  27840  C5  A   A1318     241.490 116.232  29.266  1.00 63.79      A16S
ATOM  27841  N7  A   A1318     242.484 117.143  29.604  1.00 63.79      A16S
ATOM  27842  C8  A   A1318     243.448 116.397  30.073  1.00 63.79      A16S
ATOM  27843  C2* A   A1318     244.932 113.361  29.538  1.00113.26      A16S
ATOM  27844  O2* A   A1318     245.065 111.972  29.773  1.00113.26      A16S
ATOM  27845  C3* A   A1318     246.224 114.104  29.846  1.00113.26      A16S
ATOM  27846  O3* A   A1318     247.340 113.298  29.522  1.00113.26      A16S
ATOM  27847  P   A   A1319     248.224 113.647  28.240  1.00105.99      A16S
ATOM  27848  O1P A   A1319     249.314 112.654  28.220  1.00 33.00      A16S
ATOM  27849  O2P A   A1319     248.533 115.110  28.231  1.00 33.00      A16S
ATOM  27850  O5* A   A1319     247.278 113.302  27.012  1.00105.99      A16S
ATOM  27851  C5* A   A1319     247.803 113.231  25.673  1.00105.99      A16S
ATOM  27852  C4* A   A1319     246.673 113.260  24.677  1.00105.99      A16S
ATOM  27853  O4* A   A1319     245.936 114.475  24.871  1.00105.99      A16S
ATOM  27854  C1* A   A1319     245.226 114.746  23.699  1.00105.99      A16S
ATOM  27855  N9  A   A1319     244.990 116.180  23.601  1.00 33.00      A16S
ATOM  27856  C4  A   A1319     243.835 116.721  23.093  1.00 33.00      A16S
ATOM  27857  N3  A   A1319     242.793 116.054  22.560  1.00 33.00      A16S
ATOM  27858  C2  A   A1319     241.833 116.901  22.202  1.00 33.00      A16S
ATOM  27859  N1  A   A1319     241.798 118.234  22.303  1.00 33.00      A16S
ATOM  27860  C6  A   A1319     242.867 118.875  22.829  1.00 33.00      A16S
ATOM  27861  N6  A   A1319     242.839 120.208  22.900  1.00 33.00      A16S
ATOM  27862  C5  A   A1319     243.952 118.089  23.260  1.00 33.00      A16S
ATOM  27863  N7  A   A1319     245.175 118.410  23.837  1.00 33.00      A16S
ATOM  27864  C8  A   A1319     245.756 117.243  24.007  1.00 33.00      A16S
ATOM  27865  C2* A   A1319     245.883 114.008  22.531  1.00105.99      A16S
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ATOM  27866  O2* A   A1319     244.908 113.141  21.977  1.00105.99      A16S
ATOM  27867  C3* A   A1319     247.066 113.293  23.207  1.00105.99      A16S
ATOM  27868  O3* A   A1319     247.144 111.956  22.709  1.00105.99      A16S
ATOM  27869  P    C   A1320     248.341 110.980  23.166  1.00 86.24      A16S
ATOM  27870  O1P C   A1320     248.359 110.890  24.651  1.00 82.49      A16S
ATOM  27871  O2P C   A1320     249.573 111.393  22.438  1.00 82.49      A16S
ATOM  27872  O5* C   A1320     247.871 109.544  22.654  1.00 86.24      A16S
ATOM  27873  C5* C   A1320     248.795 108.645  22.034  1.00 86.24      A16S
ATOM  27874  C4* C   A1320     248.096 107.375  21.611  1.00 86.24      A16S
ATOM  27875  O4* C   A1320     247.831 106.535  22.763  1.00 86.24      A16S
ATOM  27876  C1* C   A1320     246.644 105.789  22.544  1.00 86.24      A16S
ATOM  27877  N1   C   A1320     245.670 106.125  23.600  1.00 82.49      A16S
ATOM  27878  C6   C   A1320     245.629 107.381  24.143  1.00 82.49      A16S
ATOM  27879  C2   C   A1320     244.772 105.139  24.032  1.00 82.49      A16S
ATOM  27880  O2   C   A1320     244.828 104.005  23.531  1.00 82.49      A16S
ATOM  27881  N3   C   A1320     243.866 105.447  24.983  1.00 82.49      A16S
ATOM  27882  C4   C   A1320     243.831 106.677  25.498  1.00 82.49      A16S
ATOM  27883  N4   C   A1320     242.913 106.937  26.429  1.00 82.49      A16S
ATOM  27884  C5   C   A1320     244.733 107.696  25.082  1.00 82.49      A16S
ATOM  27885  C2* C   A1320     246.116 106.152  21.156  1.00 86.24      A16S
ATOM  27886  O2* C   A1320     246.559 105.195  20.215  1.00 86.24      A16S
ATOM  27887  C3* C   A1320     246.742 107.522  20.937  1.00 86.24      A16S
ATOM  27888  O3* C   A1320     246.836 107.847  19.562  1.00 86.24      A16S
ATOM  27889  P    C   A1321     245.593 108.561  18.839  1.00 70.60      A16S
ATOM  27890  O1P C   A1321     245.928 108.652  17.401  1.00 65.99      A16S
ATOM  27891  O2P C   A1321     245.226 109.792  19.582  1.00 65.99      A16S
ATOM  27892  O5* C   A1321     244.427 107.491  18.990  1.00 70.60      A16S
ATOM  27893  C5* C   A1321     244.527 106.221  18.332  1.00 70.60      A16S
ATOM  27894  C4* C   A1321     243.375 105.341  18.726  1.00 70.60      A16S
ATOM  27895  O4* C   A1321     243.435 105.093  20.149  1.00 70.60      A16S
ATOM  27896  C1* C   A1321     242.121 104.993  20.664  1.00 70.60      A16S
ATOM  27897  N1   C   A1321     241.949 106.004  21.716  1.00 65.99      A16S
ATOM  27898  C6   C   A1321     242.150 107.330  21.453  1.00 65.99      A16S
ATOM  27899  C2   C   A1321     241.543 105.591  22.986  1.00 65.99      A16S
ATOM  27900  O2   C   A1321     241.427 104.378  23.223  1.00 65.99      A16S
ATOM  27901  N3   C   A1321     241.298 106.521  23.929  1.00 65.99      A16S
ATOM  27902  C4   C   A1321     241.472 107.814  23.654  1.00 65.99      A16S
ATOM  27903  N4   C   A1321     241.207 108.698  24.617  1.00 65.99      A16S
ATOM  27904  C5   C   A1321     241.924 108.259  22.383  1.00 65.99      A16S
ATOM  27905  C2* C   A1321     241.134 105.190  19.509  1.00 70.60      A16S
ATOM  27906  O2* C   A1321     240.659 103.938  19.064  1.00 70.60      A16S
ATOM  27907  C3* C   A1321     241.993 105.929  18.490  1.00 70.60      A16S
ATOM  27908  O3* C   A1321     241.559 105.713  17.157  1.00 70.60      A16S
ATOM  27909  P    C   A1322     240.714 106.847  16.402  1.00 64.77      A16S
ATOM  27910  O1P C   A1322     240.775 106.555  14.944  1.00 97.59      A16S
ATOM  27911  O2P C   A1322     239.395 106.959  17.068  1.00 97.59      A16S
ATOM  27912  O5* C   A1322     241.519 108.188  16.686  1.00 64.77      A16S
ATOM  27913  C5* C   A1322     241.240 109.371  15.932  1.00 64.77      A16S
ATOM  27914  C4* C   A1322     241.298 110.594  16.818  1.00 64.77      A16S
ATOM  27915  O4* C   A1322     240.287 110.487  17.851  1.00 64.77      A16S
ATOM  27916  C1* C   A1322     240.870 110.773  19.102  1.00 64.77      A16S
ATOM  27917  N1   C   A1322     240.140 110.044  20.146  1.00 97.59      A16S
ATOM  27918  C6   C   A1322     239.639 108.794  19.917  1.00 97.59      A16S
ATOM  27919  C2   C   A1322     239.944 110.669  21.380  1.00 97.59      A16S
ATOM  27920  O2   C   A1322     240.442 111.792  21.578  1.00 97.59      A16S
ATOM  27921  N3   C   A1322     239.223 110.038  22.326  1.00 97.59      A16S
ATOM  27922  C4   C   A1322     238.715 108.829  22.083  1.00 97.59      A16S
ATOM  27923  N4   C   A1322     237.985 108.256  23.042  1.00 97.59      A16S
ATOM  27924  C5   C   A1322     238.926 108.158  20.847  1.00 97.59      A16S
ATOM  27925  C2* C   A1322     242.358 110.463  18.962  1.00 64.77      A16S
ATOM  27926  O2* C   A1322     243.086 111.217  19.914  1.00 64.77      A16S
ATOM  27927  C3* C   A1322     242.615 110.920  17.528  1.00 64.77      A16S
ATOM  27928  O3* C   A1322     242.735 112.340  17.553  1.00 64.77      A16S
ATOM  27929  P    G   A1323     243.992 113.063  16.861  1.00 67.70      A16S
ATOM  27930  O1P G   A1323     243.856 112.913  15.390  1.00 72.31      A16S
ATOM  27931  O2P G   A1323     245.237 112.596  17.540  1.00 72.31      A16S
ATOM  27932  O5* G   A1323     243.751 114.605  17.188  1.00 67.70      A16S
ATOM  27933  C5* G   A1323     242.431 115.159  17.101  1.00 67.70      A16S
ATOM  27934  C4* G   A1323     242.431 116.615  17.493  1.00 67.70      A16S
ATOM  27935  O4* G   A1323     242.761 116.758  18.896  1.00 67.70      A16S
ATOM  27936  C1* G   A1323     243.434 117.989  19.098  1.00 67.70      A16S
ATOM  27937  N9   G   A1323     244.729 117.715  19.719  1.00 72.31      A16S
ATOM  27938  C4   G   A1323     245.582 118.649  20.260  1.00 72.31      A16S
ATOM  27939  N3   G   A1323     245.365 119.981  20.323  1.00 72.31      A16S
ATOM  27940  C2   G   A1323     246.373 120.614  20.890  1.00 72.31      A16S
ATOM  27941  N2   G   A1323     246.323 121.941  21.043  1.00 72.31      A16S
ATOM  27942  N1   G   A1323     247.507 119.992  21.352  1.00 72.31      A16S
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ATOM  27943  C6  G  A1323     247.753 118.624  21.292  1.00 72.31      A16S
ATOM  27944  O6  G  A1323     248.819 118.166  21.722  1.00 72.31      A16S
ATOM  27945  C5  G  A1323     246.677 117.931  20.699  1.00 72.31      A16S
ATOM  27946  N7  G  A1323     246.508 116.575  20.456  1.00 72.31      A16S
ATOM  27947  C8  G  A1323     245.343 116.493  19.874  1.00 72.31      A16S
ATOM  27948  C2* G  A1323     243.552 118.693  17.741  1.00 67.70      A16S
ATOM  27949  O2* G  A1323     242.529 119.663  17.624  1.00 67.70      A16S
ATOM  27950  C3* G  A1323     243.410 117.522  16.772  1.00 67.70      A16S
ATOM  27951  O3* G  A1323     242.904 117.906  15.504  1.00 67.70      A16S
ATOM  27952  P   A  A1324     243.869 117.881  14.219  1.00 74.45      A16S
ATOM  27953  O1P A  A1324     243.005 117.740  13.016  1.00 51.52      A16S
ATOM  27954  O2P A  A1324     244.971 116.908  14.436  1.00 51.52      A16S
ATOM  27955  O5* A  A1324     244.457 119.354  14.211  1.00 74.45      A16S
ATOM  27956  C5* A  A1324     243.563 120.470  14.139  1.00 74.45      A16S
ATOM  27957  C4* A  A1324     244.202 121.694  14.727  1.00 74.45      A16S
ATOM  27958  O4* A  A1324     244.424 121.491  16.146  1.00 74.45      A16S
ATOM  27959  C1* A  A1324     245.644 122.105  16.530  1.00 74.45      A16S
ATOM  27960  N9  A  A1324     246.565 121.050  16.957  1.00 51.52      A16S
ATOM  27961  C4  A  A1324     247.678 121.194  17.751  1.00 51.52      A16S
ATOM  27962  N3  A  A1324     248.168 122.331  18.280  1.00 51.52      A16S
ATOM  27963  C2  A  A1324     249.242 122.078  19.022  1.00 51.52      A16S
ATOM  27964  N1  A  A1324     249.833 120.906  19.285  1.00 51.52      A16S
ATOM  27965  C6  A  A1324     249.311 119.784  18.743  1.00 51.52      A16S
ATOM  27966  N6  A  A1324     249.877 118.607  19.031  1.00 51.52      A16S
ATOM  27967  C5  A  A1324     248.186 119.920  17.920  1.00 51.52      A16S
ATOM  27968  N7  A  A1324     247.432 118.996  17.217  1.00 51.52      A16S
ATOM  27969  C8  A  A1324     246.490 119.714  16.662  1.00 51.52      A16S
ATOM  27970  C2* A  A1324     246.174 122.854  15.310  1.00 74.45      A16S
ATOM  27971  O2* A  A1324     245.677 124.181  15.318  1.00 74.45      A16S
ATOM  27972  C3* A  A1324     245.577 122.031  14.182  1.00 74.45      A16S
ATOM  27973  O3* A  A1324     245.535 122.724  12.951  1.00 74.45      A16S
ATOM  27974  P   C  A1325     246.764 122.571  11.929  1.00 65.46      A16S
ATOM  27975  O1P C  A1325     246.382 123.324  10.707  1.00 55.95      A16S
ATOM  27976  O2P C  A1325     247.195 121.143  11.825  1.00 55.95      A16S
ATOM  27977  O5* C  A1325     247.945 123.364  12.640  1.00 65.46      A16S
ATOM  27978  C5* C  A1325     247.842 124.776  12.871  1.00 65.46      A16S
ATOM  27979  C4* C  A1325     249.023 125.251  13.664  1.00 65.46      A16S
ATOM  27980  O4* C  A1325     249.029 124.567  14.939  1.00 65.46      A16S
ATOM  27981  C1* C  A1325     250.357 124.312  15.336  1.00 65.46      A16S
ATOM  27982  N1  C  A1325     250.530 122.865  15.474  1.00 55.95      A16S
ATOM  27983  C6  C  A1325     249.727 121.997  14.798  1.00 55.95      A16S
ATOM  27984  C2  C  A1325     251.547 122.382  16.307  1.00 55.95      A16S
ATOM  27985  O2  C  A1325     252.261 123.192  16.924  1.00 55.95      A16S
ATOM  27986  N3  C  A1325     251.729 121.047  16.421  1.00 55.95      A16S
ATOM  27987  C4  C  A1325     250.947 120.210  15.746  1.00 55.95      A16S
ATOM  27988  N4  C  A1325     251.178 118.904  15.870  1.00 55.95      A16S
ATOM  27989  C5  C  A1325     249.897 120.674  14.907  1.00 55.95      A16S
ATOM  27990  C2* C  A1325     251.280 124.896  14.274  1.00 65.46      A16S
ATOM  27991  O2* C  A1325     251.674 126.192  14.677  1.00 65.46      A16S
ATOM  27992  C3* C  A1325     250.370 124.919  13.058  1.00 65.46      A16S
ATOM  27993  O3* C  A1325     250.776 125.875  12.091  1.00 65.46      A16S
ATOM  27994  P   C  A1326     251.823 125.443  10.952  1.00 55.17      A16S
ATOM  27995  O1P C  A1326     251.798 126.512   9.930  1.00 45.61      A16S
ATOM  27996  O2P C  A1326     251.568 124.031  10.561  1.00 45.61      A16S
ATOM  27997  O5* C  A1326     253.233 125.432  11.688  1.00 55.17      A16S
ATOM  27998  C5* C  A1326     253.663 126.556  12.474  1.00 55.17      A16S
ATOM  27999  C4* C  A1326     254.958 126.238  13.184  1.00 55.17      A16S
ATOM  28000  O4* C  A1326     254.743 125.281  14.248  1.00 55.17      A16S
ATOM  28001  C1* C  A1326     255.885 124.464  14.381  1.00 55.17      A16S
ATOM  28002  N1  C  A1326     255.467 123.056  14.347  1.00 45.61      A16S
ATOM  28003  C6  C  A1326     254.252 122.691  13.842  1.00 45.61      A16S
ATOM  28004  C2  C  A1326     256.337 122.083  14.855  1.00 45.61      A16S
ATOM  28005  O2  C  A1326     257.446 122.429  15.281  1.00 45.61      A16S
ATOM  28006  N3  C  A1326     255.958 120.790  14.863  1.00 45.61      A16S
ATOM  28007  C4  C  A1326     254.774 120.445  14.375  1.00 45.61      A16S
ATOM  28008  N4  C  A1326     254.452 119.158  14.403  1.00 45.61      A16S
ATOM  28009  C5  C  A1326     253.869 121.407  13.835  1.00 45.61      A16S
ATOM  28010  C2* C  A1326     256.903 124.873  13.312  1.00 55.17      A16S
ATOM  28011  O2* C  A1326     257.865 125.714  13.907  1.00 55.17      A16S
ATOM  28012  C3* C  A1326     256.030 125.619  12.310  1.00 55.17      A16S
ATOM  28013  O3* C  A1326     256.727 126.644  11.618  1.00 55.17      A16S
ATOM  28014  P   C  A1327     257.147 126.418  10.089  1.00 50.28      A16S
ATOM  28015  O1P C  A1327     257.621 127.730   9.560  1.00 50.26      A16S
ATOM  28016  O2P C  A1327     256.034 125.707   9.406  1.00 50.26      A16S
ATOM  28017  O5* C  A1327     258.382 125.421  10.214  1.00 50.28      A16S
ATOM  28018  C5* C  A1327     259.594 125.879  10.810  1.00 50.28      A16S
ATOM  28019  C4* C  A1327     260.483 124.727  11.181  1.00 50.28      A16S
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ATOM  28020  O4*  C   A1327     259.845 123.902  12.180  1.00 50.28      A16S
ATOM  28021  C1*  C   A1327     260.446 122.624  12.164  1.00 50.28      A16S
ATOM  28022  N1   C   A1327     259.405 121.602  12.172  1.00 50.26      A16S
ATOM  28023  C6   C   A1327     258.155 121.859  11.681  1.00 50.26      A16S
ATOM  28024  C2   C   A1327     259.723 120.333  12.683  1.00 50.26      A16S
ATOM  28025  O2   C   A1327     260.864 120.133  13.133  1.00 50.26      A16S
ATOM  28026  N3   C   A1327     258.783 119.361  12.673  1.00 50.26      A16S
ATOM  28027  C4   C   A1327     257.567 119.617  12.182  1.00 50.26      A16S
ATOM  28028  N4   C   A1327     256.671 118.625  12.185  1.00 50.26      A16S
ATOM  28029  C5   C   A1327     257.214 120.905  11.664  1.00 50.26      A16S
ATOM  28030  C2*  C   A1327     261.318 122.529  10.913  1.00 50.28      A16S
ATOM  28031  O2*  C   A1327     262.677 122.622  11.294  1.00 50.28      A16S
ATOM  28032  C3*  C   A1327     260.828 123.725  10.101  1.00 50.28      A16S
ATOM  28033  O3*  C   A1327     261.825 124.197   9.214  1.00 50.28      A16S
ATOM  28034  P    C   A1328     261.915 123.570   7.742  1.00 59.03      A16S
ATOM  28035  O1P  C   A1328     262.927 124.350   6.990  1.00 59.00      A16S
ATOM  28036  O2P  C   A1328     260.522 123.472   7.213  1.00 59.00      A16S
ATOM  28037  O5*  C   A1328     262.504 122.109   7.999  1.00 59.03      A16S
ATOM  28038  C5*  C   A1328     263.835 121.965   8.505  1.00 59.03      A16S
ATOM  28039  C4*  C   A1328     264.216 120.514   8.663  1.00 59.03      A16S
ATOM  28040  O4*  C   A1328     263.492 119.906   9.759  1.00 59.03      A16S
ATOM  28041  C1*  C   A1328     263.325 118.517   9.505  1.00 59.03      A16S
ATOM  28042  N1   C   A1328     261.886 118.206   9.439  1.00 59.00      A16S
ATOM  28043  C6   C   A1328     260.959 119.198   9.285  1.00 59.00      A16S
ATOM  28044  C2   C   A1328     261.481 116.865   9.512  1.00 59.00      A16S
ATOM  28045  O2   C   A1328     262.340 115.987   9.674  1.00 59.00      A16S
ATOM  28046  N3   C   A1328     260.169 116.565   9.401  1.00 59.00      A16S
ATOM  28047  C4   C   A1328     259.275 117.543   9.230  1.00 59.00      A16S
ATOM  28048  N4   C   A1328     257.988 117.208   9.104  1.00 59.00      A16S
ATOM  28049  C5   C   A1328     259.658 118.913   9.175  1.00 59.00      A16S
ATOM  28050  C2*  C   A1328     263.997 118.212   8.168  1.00 59.03      A16S
ATOM  28051  O2*  C   A1328     265.287 117.708   8.432  1.00 59.03      A16S
ATOM  28052  C3*  C   A1328     263.979 119.581   7.494  1.00 59.03      A16S
ATOM  28053  O3*  C   A1328     264.971 119.705   6.493  1.00 59.03      A16S
ATOM  28054  P    A   A1329     264.618 119.303   4.980  1.00 53.19      A16S
ATOM  28055  O1P  A   A1329     265.859 119.439   4.183  1.00 49.95      A16S
ATOM  28056  O2P  A   A1329     263.402 120.053   4.563  1.00 49.95      A16S
ATOM  28057  O5*  A   A1329     264.294 117.748   5.096  1.00 53.19      A16S
ATOM  28058  C5*  A   A1329     265.354 116.825   5.367  1.00 53.19      A16S
ATOM  28059  C4*  A   A1329     264.827 115.419   5.497  1.00 53.19      A16S
ATOM  28060  O4*  A   A1329     263.999 115.309   6.685  1.00 53.19      A16S
ATOM  28061  C1*  A   A1329     262.968 114.357   6.457  1.00 53.19      A16S
ATOM  28062  N9   A   A1329     261.687 115.066   6.407  1.00 49.95      A16S
ATOM  28063  C4   A   A1329     260.437 114.498   6.503  1.00 49.95      A16S
ATOM  28064  N3   A   A1329     260.138 113.203   6.717  1.00 49.95      A16S
ATOM  28065  C2   A   A1329     258.824 113.023   6.725  1.00 49.95      A16S
ATOM  28066  N1   A   A1329     257.847 113.920   6.555  1.00 49.95      A16S
ATOM  28067  C6   A   A1329     258.184 115.208   6.337  1.00 49.95      A16S
ATOM  28068  N6   A   A1329     257.216 116.108   6.157  1.00 49.95      A16S
ATOM  28069  C5   A   A1329     259.542 115.531   6.309  1.00 49.95      A16S
ATOM  28070  N7   A   A1329     260.208 116.734   6.120  1.00 49.95      A16S
ATOM  28071  C8   A   A1329     261.474 116.408   6.199  1.00 49.95      A16S
ATOM  28072  C2*  A   A1329     263.208 113.756   5.073  1.00 53.19      A16S
ATOM  28073  O2*  A   A1329     263.978 112.569   5.142  1.00 53.19      A16S
ATOM  28074  C3*  A   A1329     263.932 114.899   4.384  1.00 53.19      A16S
ATOM  28075  O3*  A   A1329     264.573 114.496   3.188  1.00 53.19      A16S
ATOM  28076  P    U   A1330     263.792 114.698   1.801  1.00 70.70      A16S
ATOM  28077  O1P  U   A1330     264.686 114.439   0.635  1.00 47.01      A16S
ATOM  28078  O2P  U   A1330     263.100 116.011   1.904  1.00 47.01      A16S
ATOM  28079  O5*  U   A1330     262.684 113.558   1.866  1.00 70.70      A16S
ATOM  28080  C5*  U   A1330     263.022 112.223   2.269  1.00 70.70      A16S
ATOM  28081  C4*  U   A1330     261.769 111.399   2.442  1.00 70.70      A16S
ATOM  28082  O4*  U   A1330     260.951 111.991   3.480  1.00 70.70      A16S
ATOM  28083  C1*  U   A1330     259.577 111.851   3.150  1.00 70.70      A16S
ATOM  28084  N1   U   A1330     259.002 113.199   3.022  1.00 47.01      A16S
ATOM  28085  C6   U   A1330     259.713 114.221   2.438  1.00 47.01      A16S
ATOM  28086  C2   U   A1330     257.727 113.420   3.524  1.00 47.01      A16S
ATOM  28087  O2   U   A1330     257.032 112.538   4.001  1.00 47.01      A16S
ATOM  28088  N3   U   A1330     257.289 114.717   3.433  1.00 47.01      A16S
ATOM  28089  C4   U   A1330     257.966 115.785   2.890  1.00 47.01      A16S
ATOM  28090  O4   U   A1330     257.494 116.911   3.002  1.00 47.01      A16S
ATOM  28091  C5   U   A1330     259.248 115.468   2.352  1.00 47.01      A16S
ATOM  28092  C2*  U   A1330     259.492 111.041   1.857  1.00 70.70      A16S
ATOM  28093  O2*  U   A1330     259.331 109.665   2.158  1.00 70.70      A16S
ATOM  28094  C3*  U   A1330     260.848 111.332   1.232  1.00 70.70      A16S
ATOM  28095  O3*  U   A1330     261.225 110.311   0.331  1.00 70.70      A16S
ATOM  28096  P    G   A1331     261.539 110.687  -1.193  1.00 55.58      A16S
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ATOM  28097  O1P G   A1331     261.611 109.395  -1.920  1.00 86.80      A16S
ATOM  28098  O2P G   A1331     262.671 111.644  -1.247  1.00 86.80      A16S
ATOM  28099  O5* G   A1331     260.264 111.481  -1.680  1.00 55.58      A16S
ATOM  28100  C5* G   A1331     258.975 110.978  -1.395  1.00 55.58      A16S
ATOM  28101  C4* G   A1331     257.944 112.022  -1.676  1.00 55.58      A16S
ATOM  28102  O4* G   A1331     258.223 113.214  -0.928  1.00 55.58      A16S
ATOM  28103  C1* G   A1331     257.387 114.200  -1.444  1.00 55.58      A16S
ATOM  28104  N9  G   A1331     257.845 115.516  -1.024  1.00 86.80      A16S
ATOM  28105  C4  G   A1331     257.114 116.398  -0.271  1.00 86.80      A16S
ATOM  28106  N3  G   A1331     255.879 116.177   0.226  1.00 86.80      A16S
ATOM  28107  C2  G   A1331     255.421 117.219   0.892  1.00 86.80      A16S
ATOM  28108  N2  G   A1331     254.223 117.158   1.472  1.00 86.80      A16S
ATOM  28109  N1  G   A1331     256.111 118.396   1.046  1.00 86.80      A16S
ATOM  28110  C6  G   A1331     257.385 118.648   0.546  1.00 86.80      A16S
ATOM  28111  O6  G   A1331     257.916 119.748   0.741  1.00 86.80      A16S
ATOM  28112  C5  G   A1331     257.898 117.523  -0.160  1.00 86.80      A16S
ATOM  28113  N7  G   A1331     259.112 117.340  -0.806  1.00 86.80      A16S
ATOM  28114  C8  G   A1331     259.037 116.132  -1.299  1.00 86.80      A16S
ATOM  28115  C2* G   A1331     257.189 113.911  -2.939  1.00 55.58      A16S
ATOM  28116  O2* G   A1331     255.801 113.854  -3.171  1.00 55.58      A16S
ATOM  28117  C3* G   A1331     257.829 112.524  -3.108  1.00 55.58      A16S
ATOM  28118  O3* G   A1331     256.984 111.557  -3.752  1.00 55.58      A16S
ATOM  28119  P   A   A1332     256.305 111.841  -5.189  1.00 63.50      A16S
ATOM  28120  O1P A   A1332     257.106 111.131  -6.234  1.00 56.52      A16S
ATOM  28121  O2P A   A1332     255.969 113.278  -5.386  1.00 56.52      A16S
ATOM  28122  O5* A   A1332     254.937 111.043  -5.034  1.00 63.50      A16S
ATOM  28123  C5* A   A1332     254.944 109.666  -4.603  1.00 63.50      A16S
ATOM  28124  C4* A   A1332     253.535 109.183  -4.376  1.00 63.50      A16S
ATOM  28125  O4* A   A1332     252.992 109.839  -3.212  1.00 63.50      A16S
ATOM  28126  C1* A   A1332     251.645 110.179  -3.439  1.00 63.50      A16S
ATOM  28127  N9  A   A1332     251.544 111.633  -3.332  1.00 56.52      A16S
ATOM  28128  C4  A   A1332     250.411 112.397  -3.428  1.00 56.52      A16S
ATOM  28129  N3  A   A1332     249.163 111.969  -3.659  1.00 56.52      A16S
ATOM  28130  C2  A   A1332     248.322 112.994  -3.693  1.00 56.52      A16S
ATOM  28131  N1  A   A1332     248.567 114.301  -3.534  1.00 56.52      A16S
ATOM  28132  C6  A   A1332     249.831 114.694  -3.295  1.00 56.52      A16S
ATOM  28133  N6  A   A1332     250.070 115.995  -3.120  1.00 56.52      A16S
ATOM  28134  C5  A   A1332     250.818 113.704  -3.240  1.00 56.52      A16S
ATOM  28135  N7  A   A1332     252.185 113.765  -3.031  1.00 56.52      A16S
ATOM  28136  C8  A   A1332     252.568 112.515  -3.101  1.00 56.52      A16S
ATOM  28137  C2* A   A1332     251.238 109.593  -4.794  1.00 63.50      A16S
ATOM  28138  O2* A   A1332     250.678 108.314  -4.587  1.00 63.50      A16S
ATOM  28139  C3* A   A1332     252.577 109.502  -5.506  1.00 63.50      A16S
ATOM  28140  O3* A   A1332     252.616 108.462  -6.470  1.00 63.50      A16S
ATOM  28141  P   A   A1333     252.605 108.822  -8.040  1.00 61.17      A16S
ATOM  28142  O1P A   A1333     253.028 107.571  -8.726  1.00 49.59      A16S
ATOM  28143  O2P A   A1333     253.361 110.087  -8.300  1.00 49.59      A16S
ATOM  28144  O5* A   A1333     251.064 109.108  -8.340  1.00 61.17      A16S
ATOM  28145  C5* A   A1333     250.057 108.106  -8.067  1.00 61.17      A16S
ATOM  28146  C4* A   A1333     248.688 108.739  -7.954  1.00 61.17      A16S
ATOM  28147  O4* A   A1333     248.619 109.563  -6.766  1.00 61.17      A16S
ATOM  28148  C1* A   A1333     247.786 110.679  -7.014  1.00 61.17      A16S
ATOM  28149  N9  A   A1333     248.570 111.894  -6.851  1.00 49.59      A16S
ATOM  28150  C4  A   A1333     248.064 113.164  -6.759  1.00 49.59      A16S
ATOM  28151  N3  A   A1333     246.775 113.528  -6.764  1.00 49.59      A16S
ATOM  28152  C2  A   A1333     246.660 114.842  -6.655  1.00 49.59      A16S
ATOM  28153  N1  A   A1333     247.614 115.767  -6.556  1.00 49.59      A16S
ATOM  28154  C6  A   A1333     248.902 115.364  -6.562  1.00 49.59      A16S
ATOM  28155  N6  A   A1333     249.864 116.284  -6.484  1.00 49.59      A16S
ATOM  28156  C5  A   A1333     249.155 113.996  -6.659  1.00 49.59      A16S
ATOM  28157  N7  A   A1333     250.332 113.266  -6.671  1.00 49.59      A16S
ATOM  28158  C8  A   A1333     249.930 112.026  -6.783  1.00 49.59      A16S
ATOM  28159  C2* A   A1333     247.268 110.579  -8.445  1.00 61.17      A16S
ATOM  28160  O2* A   A1333     245.982 110.018  -8.435  1.00 61.17      A16S
ATOM  28161  C3* A   A1333     248.295 109.667  -9.090  1.00 61.17      A16S
ATOM  28162  O3* A   A1333     247.716 108.959 -10.172  1.00 61.17      A16S
ATOM  28163  P   G   A1334     247.891 109.518 -11.665  1.00 39.42      A16S
ATOM  28164  O1P G   A1334     246.971 108.758 -12.567  1.00 41.89      A16S
ATOM  28165  O2P G   A1334     249.361 109.523 -11.945  1.00 41.89      A16S
ATOM  28166  O5* G   A1334     247.404 111.035 -11.585  1.00 39.42      A16S
ATOM  28167  C5* G   A1334     246.039 111.365 -11.309  1.00 39.42      A16S
ATOM  28168  C4* G   A1334     245.910 112.840 -11.061  1.00 39.42      A16S
ATOM  28169  O4* G   A1334     246.719 113.181  -9.914  1.00 39.42      A16S
ATOM  28170  C1* G   A1334     247.314 114.454 -10.106  1.00 39.42      A16S
ATOM  28171  N9  G   A1334     248.761 114.306  -9.998  1.00 41.89      A16S
ATOM  28172  C4  G   A1334     249.691 115.314  -9.921  1.00 41.89      A16S
ATOM  28173  N3  G   A1334     249.432 116.633  -9.904  1.00 41.89      A16S
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ATOM  28174  C2  G  A1334     250.536 117.346  -9.854  1.00 41.89      A16S
ATOM  28175  N2  G  A1334     250.470 118.666  -9.829  1.00 41.89      A16S
ATOM  28176  N1  G  A1334     251.786 116.813  -9.826  1.00 41.89      A16S
ATOM  28177  C6  G  A1334     252.074 115.459  -9.843  1.00 41.89      A16S
ATOM  28178  O6  G  A1334     253.249 115.075  -9.823  1.00 41.89      A16S
ATOM  28179  C5  G  A1334     250.908 114.683  -9.890  1.00 41.89      A16S
ATOM  28180  N7  G  A1334     250.753 113.307  -9.925  1.00 41.89      A16S
ATOM  28181  C8  G  A1334     249.464 113.130  -9.980  1.00 41.89      A16S
ATOM  28182  C2* G  A1334     246.861 114.991 -11.468  1.00 39.42      A16S
ATOM  28183  O2* G  A1334     245.828 115.935 -11.279  1.00 39.42      A16S
ATOM  28184  C3* G  A1334     246.424 113.717 -12.189  1.00 39.42      A16S
ATOM  28185  O3* G  A1334     245.388 113.964 -13.134  1.00 39.42      A16S
ATOM  28186  P   C  A1335     245.609 113.596 -14.680  1.00 48.58      A16S
ATOM  28187  O1P C  A1335     244.357 113.923 -15.402  1.00 54.55      A16S
ATOM  28188  O2P C  A1335     246.183 112.227 -14.771  1.00 54.55      A16S
ATOM  28189  O5* C  A1335     246.685 114.652 -15.178  1.00 48.58      A16S
ATOM  28190  C5* C  A1335     246.376 116.050 -15.184  1.00 48.58      A16S
ATOM  28191  C4* C  A1335     247.186 116.764 -16.235  1.00 48.58      A16S
ATOM  28192  O4* C  A1335     248.581 116.701 -15.913  1.00 48.58      A16S
ATOM  28193  C1* C  A1335     249.331 116.782 -17.099  1.00 48.58      A16S
ATOM  28194  N1  C  A1335     250.492 115.890 -16.946  1.00 54.55      A16S
ATOM  28195  C6  C  A1335     250.322 114.622 -16.473  1.00 54.55      A16S
ATOM  28196  C2  C  A1335     251.796 116.377 -17.231  1.00 54.55      A16S
ATOM  28197  O2  C  A1335     251.937 117.508 -17.727  1.00 54.55      A16S
ATOM  28198  N3  C  A1335     252.860 115.594 -16.958  1.00 54.55      A16S
ATOM  28199  C4  C  A1335     252.674 114.374 -16.447  1.00 54.55      A16S
ATOM  28200  N4  C  A1335     253.750 113.645 -16.154  1.00 54.55      A16S
ATOM  28201  C5  C  A1335     251.372 113.843 -16.205  1.00 54.55      A16S
ATOM  28202  C2* C  A1335     248.386 116.650 -18.308  1.00 48.58      A16S
ATOM  28203  O2* C  A1335     248.324 117.886 -18.992  1.00 48.58      A16S
ATOM  28204  C3* C  A1335     247.045 116.272 -17.666  1.00 48.58      A16S
ATOM  28205  O3* C  A1335     245.967 117.095 -18.111  1.00 48.58      A16S
ATOM  28206  P   C  A1336     245.431 117.052 -19.626  1.00 36.60      A16S
ATOM  28207  O1P C  A1336     245.559 115.651 -20.132  1.00 69.93      A16S
ATOM  28208  O2P C  A1336     246.034 118.175 -20.391  1.00 69.93      A16S
ATOM  28209  O5* C  A1336     243.894 117.430 -19.424  1.00 36.60      A16S
ATOM  28210  C5* C  A1336     243.045 116.632 -18.558  1.00 36.60      A16S
ATOM  28211  C4* C  A1336     242.028 117.496 -17.836  1.00 36.60      A16S
ATOM  28212  O4* C  A1336     242.634 118.196 -16.723  1.00 36.60      A16S
ATOM  28213  C1* C  A1336     242.346 119.570 -16.817  1.00 36.60      A16S
ATOM  28214  N1  C  A1336     243.486 120.341 -16.289  1.00 69.93      A16S
ATOM  28215  C6  C  A1336     244.729 119.784 -16.212  1.00 69.93      A16S
ATOM  28216  C2  C  A1336     243.280 121.663 -15.860  1.00 69.93      A16S
ATOM  28217  O2  C  A1336     242.146 122.162 -15.942  1.00 69.93      A16S
ATOM  28218  N3  C  A1336     244.322 122.364 -15.374  1.00 69.93      A16S
ATOM  28219  C4  C  A1336     245.530 121.803 -15.309  1.00 69.93      A16S
ATOM  28220  N4  C  A1336     246.536 122.532 -14.829  1.00 69.93      A16S
ATOM  28221  C5  C  A1336     245.764 120.471 -15.733  1.00 69.93      A16S
ATOM  28222  C2* C  A1336     242.034 119.828 -18.286  1.00 36.60      A16S
ATOM  28223  O2* C  A1336     241.206 120.961 -18.401  1.00 36.60      A16S
ATOM  28224  C3* C  A1336     241.313 118.543 -18.670  1.00 36.60      A16S
ATOM  28225  O3* C  A1336     239.959 118.630 -18.234  1.00 36.60      A16S
ATOM  28226  P   G  A1337     238.769 118.091 -19.176  1.00 39.09      A16S
ATOM  28227  O1P G  A1337     239.296 117.863 -20.549  1.00 53.10      A16S
ATOM  28228  O2P G  A1337     237.623 119.020 -18.987  1.00 53.10      A16S
ATOM  28229  O5* G  A1337     238.407 116.686 -18.514  1.00 39.09      A16S
ATOM  28230  C5* G  A1337     238.890 115.439 -19.053  1.00 39.09      A16S
ATOM  28231  C4* G  A1337     238.512 114.312 -18.124  1.00 39.09      A16S
ATOM  28232  O4* G  A1337     239.316 114.442 -16.931  1.00 39.09      A16S
ATOM  28233  C1* G  A1337     238.490 114.583 -15.805  1.00 39.09      A16S
ATOM  28234  N9  G  A1337     238.631 115.972 -15.372  1.00 53.10      A16S
ATOM  28235  C4  G  A1337     239.775 116.501 -14.835  1.00 53.10      A16S
ATOM  28236  N3  G  A1337     240.921 115.825 -14.604  1.00 53.10      A16S
ATOM  28237  C2  G  A1337     241.862 116.602 -14.105  1.00 53.10      A16S
ATOM  28238  N2  G  A1337     243.068 116.085 -13.822  1.00 53.10      A16S
ATOM  28239  N1  G  A1337     241.691 117.936 -13.846  1.00 53.10      A16S
ATOM  28240  C6  G  A1337     240.518 118.647 -14.063  1.00 53.10      A16S
ATOM  28241  O6  G  A1337     240.468 119.840 -13.771  1.00 53.10      A16S
ATOM  28242  C5  G  A1337     239.499 117.827 -14.614  1.00 53.10      A16S
ATOM  28243  N7  G  A1337     238.199 118.132 -14.997  1.00 53.10      A16S
ATOM  28244  C8  G  A1337     237.720 117.000 -15.435  1.00 53.10      A16S
ATOM  28245  C2* G  A1337     237.109 114.055 -16.197  1.00 39.09      A16S
ATOM  28246  O2* G  A1337     237.097 112.668 -15.947  1.00 39.09      A16S
ATOM  28247  C3* G  A1337     237.056 114.382 -17.687  1.00 39.09      A16S
ATOM  28248  O3* G  A1337     236.298 113.414 -18.409  1.00 39.09      A16S
ATOM  28249  P   G  A1338     235.529 113.833 -19.763  1.00 34.84      A16S
ATOM  28250  O1P G  A1338     234.646 114.998 -19.487  1.00 68.42      A16S
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ATOM  28251  O2P G   A1338     236.531 113.934 -20.845  1.00 68.42      A16S
ATOM  28252  O5* G   A1338     234.610 112.561 -20.055  1.00 34.84      A16S
ATOM  28253  C5* G   A1338     235.057 111.521 -20.945  1.00 34.84      A16S
ATOM  28254  C4* G   A1338     234.183 110.290 -20.837  1.00 34.84      A16S
ATOM  28255  O4* G   A1338     234.482 109.538 -19.640  1.00 34.84      A16S
ATOM  28256  C1* G   A1338     233.313 108.885 -19.186  1.00 34.84      A16S
ATOM  28257  N9   G   A1338     233.109 109.253 -17.788  1.00 68.42      A16S
ATOM  28258  C4   G   A1338     232.384 108.558 -16.854  1.00 68.42      A16S
ATOM  28259  N3   G   A1338     231.682 107.431 -17.074  1.00 68.42      A16S
ATOM  28260  C2   G   A1338     231.111 106.983 -15.968  1.00 68.42      A16S
ATOM  28261  N2   G   A1338     230.365 105.875 -15.999  1.00 68.42      A16S
ATOM  28262  N1   G   A1338     231.227 107.585 -14.745  1.00 68.42      A16S
ATOM  28263  C6   G   A1338     231.949 108.741 -14.492  1.00 68.42      A16S
ATOM  28264  O6   G   A1338     232.001 109.191 -13.338  1.00 68.42      A16S
ATOM  28265  C5   G   A1338     232.555 109.245 -15.673  1.00 68.42      A16S
ATOM  28266  N7   G   A1338     233.341 110.369 -15.869  1.00 68.42      A16S
ATOM  28267  C8   G   A1338     233.639 110.337 -17.136  1.00 68.42      A16S
ATOM  28268  C2* G   A1338     232.170 109.237 -20.146  1.00 34.84      A16S
ATOM  28269  O2* G   A1338     231.974 108.184 -21.079  1.00 34.84      A16S
ATOM  28270  C3* G   A1338     232.690 110.514 -20.799  1.00 34.84      A16S
ATOM  28271  O3* G   A1338     232.197 110.676 -22.110  1.00 34.84      A16S
ATOM  28272  P    A   A1339     231.085 111.787 -22.398  1.00 31.34      A16S
ATOM  28273  O1P A   A1339     231.005 111.997 -23.868  1.00 50.55      A16S
ATOM  28274  O2P A   A1339     231.338 112.954 -21.503  1.00 50.55      A16S
ATOM  28275  O5* A   A1339     229.743 111.066 -21.948  1.00 31.34      A16S
ATOM  28276  C5* A   A1339     229.213 109.976 -22.708  1.00 31.34      A16S
ATOM  28277  C4* A   A1339     228.202 109.229 -21.894  1.00 31.34      A16S
ATOM  28278  O4* A   A1339     228.876 108.594 -20.786  1.00 31.34      A16S
ATOM  28279  C1* A   A1339     228.044 108.639 -19.645  1.00 31.34      A16S
ATOM  28280  N9   A   A1339     228.706 109.441 -18.622  1.00 50.55      A16S
ATOM  28281  C4   A   A1339     228.613 109.257 -17.267  1.00 50.55      A16S
ATOM  28282  N3   A   A1339     227.940 108.293 -16.621  1.00 50.55      A16S
ATOM  28283  C2   A   A1339     228.051 108.444 -15.314  1.00 50.55      A16S
ATOM  28284  N1   A   A1339     228.707 109.375 -14.629  1.00 50.55      A16S
ATOM  28285  C6   A   A1339     229.374 110.329 -15.310  1.00 50.55      A16S
ATOM  28286  N6   A   A1339     230.036 111.264 -14.623  1.00 50.55      A16S
ATOM  28287  C5   A   A1339     229.333 110.279 -16.703  1.00 50.55      A16S
ATOM  28288  N7   A   A1339     229.891 111.084 -17.681  1.00 50.55      A16S
ATOM  28289  C8   A   A1339     229.497 110.539 -18.798  1.00 50.55      A16S
ATOM  28290  C2* A   A1339     226.723 109.306 -20.043  1.00 31.34      A16S
ATOM  28291  O2* A   A1339     225.711 108.349 -20.297  1.00 31.34      A16S
ATOM  28292  C3* A   A1339     227.145 110.109 -21.256  1.00 31.34      A16S
ATOM  28293  O3* A   A1339     226.063 110.343 -22.115  1.00 31.34      A16S
ATOM  28294  P    A   A1340     225.518 111.829 -22.292  1.00 44.34      A16S
ATOM  28295  O1P A   A1340     224.311 111.764 -23.150  1.00 65.36      A16S
ATOM  28296  O2P A   A1340     226.672 112.659 -22.715  1.00 65.36      A16S
ATOM  28297  O5* A   A1340     225.093 112.260 -20.817  1.00 44.34      A16S
ATOM  28298  C5* A   A1340     224.057 111.543 -20.117  1.00 44.34      A16S
ATOM  28299  C4* A   A1340     224.121 111.799 -18.622  1.00 44.34      A16S
ATOM  28300  O4* A   A1340     225.436 111.443 -18.118  1.00 44.34      A16S
ATOM  28301  C1* A   A1340     225.770 112.282 -17.031  1.00 44.34      A16S
ATOM  28302  N9   A   A1340     226.898 113.117 -17.430  1.00 65.36      A16S
ATOM  28303  C4   A   A1340     227.621 113.933 -16.598  1.00 65.36      A16S
ATOM  28304  N3   A   A1340     227.477 114.070 -15.270  1.00 65.36      A16S
ATOM  28305  C2   A   A1340     228.325 114.971 -14.804  1.00 65.36      A16S
ATOM  28306  N1   A   A1340     229.230 115.697 -15.462  1.00 65.36      A16S
ATOM  28307  C6   A   A1340     229.346 115.535 -16.794  1.00 65.36      A16S
ATOM  28308  N6   A   A1340     230.244 116.268 -17.449  1.00 65.36      A16S
ATOM  28309  C5   A   A1340     228.508 114.606 -17.409  1.00 65.36      A16S
ATOM  28310  N7   A   A1340     228.377 114.197 -18.724  1.00 65.36      A16S
ATOM  28311  C8   A   A1340     227.419 113.307 -18.682  1.00 65.36      A16S
ATOM  28312  C2* A   A1340     224.560 113.177 -16.758  1.00 44.34      A16S
ATOM  28313  O2* A   A1340     223.725 112.580 -15.788  1.00 44.34      A16S
ATOM  28314  C3* A   A1340     223.898 113.220 -18.123  1.00 44.34      A16S
ATOM  28315  O3* A   A1340     222.520 113.559 -18.001  1.00 44.34      A16S
ATOM  28316  P    U   A1341     222.048 115.082 -18.241  1.00 46.65      A16S
ATOM  28317  O1P U   A1341     220.561 115.096 -18.203  1.00 52.63      A16S
ATOM  28318  O2P U   A1341     222.753 115.624 -19.433  1.00 52.63      A16S
ATOM  28319  O5* U   A1341     222.604 115.866 -16.970  1.00 46.65      A16S
ATOM  28320  C5* U   A1341     222.275 115.447 -15.638  1.00 46.65      A16S
ATOM  28321  C4* U   A1341     223.108 116.202 -14.628  1.00 46.65      A16S
ATOM  28322  O4* U   A1341     224.506 115.909 -14.851  1.00 46.65      A16S
ATOM  28323  C1* U   A1341     225.282 117.065 -14.589  1.00 46.65      A16S
ATOM  28324  N1   U   A1341     225.983 117.451 -15.821  1.00 52.63      A16S
ATOM  28325  C6   U   A1341     225.618 116.941 -17.041  1.00 52.63      A16S
ATOM  28326  C2   U   A1341     227.027 118.332 -15.711  1.00 52.63      A16S
ATOM  28327  O2   U   A1341     227.365 118.829 -14.655  1.00 52.63      A16S
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ATOM  28328  N3  U   A1341     227.663 118.614 -16.887  1.00 52.63      A16S
ATOM  28329  C4  U   A1341     227.364 118.115 -18.129  1.00 52.63      A16S
ATOM  28330  O4  U   A1341     228.098 118.374 -19.073  1.00 52.63      A16S
ATOM  28331  C5  U   A1341     226.256 117.236 -18.164  1.00 52.63      A16S
ATOM  28332  C2* U   A1341     224.343 118.159 -14.091  1.00 46.65      A16S
ATOM  28333  O2* U   A1341     224.342 118.153 -12.675  1.00 46.65      A16S
ATOM  28334  C3* U   A1341     223.016 117.718 -14.681  1.00 46.65      A16S
ATOM  28335  O3* U   A1341     221.949 118.204 -13.890  1.00 46.65      A16S
ATOM  28336  P   C   A1342     221.538 119.747 -13.991  1.00 34.59      A16S
ATOM  28337  O1P C   A1342     220.175 119.909 -13.424  1.00 64.67      A16S
ATOM  28338  O2P C   A1342     221.813 120.187 -15.381  1.00 64.67      A16S
ATOM  28339  O5* C   A1342     222.590 120.498 -13.057  1.00 34.59      A16S
ATOM  28340  C5* C   A1342     222.607 120.325 -11.619  1.00 34.59      A16S
ATOM  28341  C4* C   A1342     223.568 121.313 -10.982  1.00 34.59      A16S
ATOM  28342  O4* C   A1342     224.922 121.028 -11.435  1.00 34.59      A16S
ATOM  28343  C1* C   A1342     225.647 122.244 -11.600  1.00 34.59      A16S
ATOM  28344  N1  C   A1342     226.001 122.419 -13.028  1.00 64.67      A16S
ATOM  28345  C6  C   A1342     225.448 121.626 -13.994  1.00 64.67      A16S
ATOM  28346  C2  C   A1342     226.895 123.445 -13.387  1.00 64.67      A16S
ATOM  28347  O2  C   A1342     227.414 124.133 -12.503  1.00 64.67      A16S
ATOM  28348  N3  C   A1342     227.164 123.658 -14.690  1.00 64.67      A16S
ATOM  28349  C4  C   A1342     226.589 122.898 -15.624  1.00 64.67      A16S
ATOM  28350  N4  C   A1342     226.857 123.170 -16.907  1.00 64.67      A16S
ATOM  28351  C5  C   A1342     225.707 121.830 -15.290  1.00 64.67      A16S
ATOM  28352  C2* C   A1342     224.733 123.384 -11.150  1.00 34.59      A16S
ATOM  28353  O2* C   A1342     225.043 123.743  -9.819  1.00 34.59      A16S
ATOM  28354  C3* C   A1342     223.354 122.773 -11.355  1.00 34.59      A16S
ATOM  28355  O3* C   A1342     222.346 123.424 -10.600  1.00 34.59      A16S
ATOM  28356  P   G   A1343     221.662 124.755 -11.186  1.00 51.99      A16S
ATOM  28357  O1P G   A1343     220.422 125.054 -10.435  1.00 47.73      A16S
ATOM  28358  O2P G   A1343     221.600 124.628 -12.661  1.00 47.73      A16S
ATOM  28359  O5* G   A1343     222.716 125.887 -10.815  1.00 51.99      A16S
ATOM  28360  C5* G   A1343     223.116 126.123  -9.437  1.00 51.99      A16S
ATOM  28361  C4* G   A1343     224.102 127.271  -9.371  1.00 51.99      A16S
ATOM  28362  O4* G   A1343     225.319 126.872 -10.043  1.00 51.99      A16S
ATOM  28363  C1* G   A1343     225.835 127.961 -10.787  1.00 51.99      A16S
ATOM  28364  N9  G   A1343     225.897 127.565 -12.190  1.00 47.73      A16S
ATOM  28365  C4  G   A1343     226.776 128.033 -13.137  1.00 47.73      A16S
ATOM  28366  N3  G   A1343     227.768 128.926 -12.931  1.00 47.73      A16S
ATOM  28367  C2  G   A1343     228.426 129.192 -14.038  1.00 47.73      A16S
ATOM  28368  N2  G   A1343     229.442 130.049 -14.015  1.00 47.73      A16S
ATOM  28369  N1  G   A1343     228.136 128.637 -15.253  1.00 47.73      A16S
ATOM  28370  C6  G   A1343     227.120 127.719 -15.490  1.00 47.73      A16S
ATOM  28371  O6  G   A1343     226.931 127.281 -16.637  1.00 47.73      A16S
ATOM  28372  C5  G   A1343     226.411 127.413 -14.307  1.00 47.73      A16S
ATOM  28373  N7  G   A1343     225.344 126.553 -14.098  1.00 47.73      A16S
ATOM  28374  C8  G   A1343     225.078 126.672 -12.830  1.00 47.73      A16S
ATOM  28375  C2* G   A1343     224.938 129.179 -10.545  1.00 51.99      A16S
ATOM  28376  O2* G   A1343     225.488 130.026  -9.560  1.00 51.99      A16S
ATOM  28377  C3* G   A1343     223.644 128.531 -10.091  1.00 51.99      A16S
ATOM  28378  O3* G   A1343     222.938 129.389  -9.214  1.00 51.99      A16S
ATOM  28379  P   C   A1344     221.698 130.236  -9.770  1.00 33.03      A16S
ATOM  28380  O1P C   A1344     220.911 130.686  -8.585  1.00 66.32      A16S
ATOM  28381  O2P C   A1344     221.042 129.431 -10.838  1.00 66.32      A16S
ATOM  28382  O5* C   A1344     222.361 131.510 -10.463  1.00 33.03      A16S
ATOM  28383  C5* C   A1344     222.902 132.584  -9.660  1.00 33.03      A16S
ATOM  28384  C4* C   A1344     223.874 133.410 -10.461  1.00 33.03      A16S
ATOM  28385  O4* C   A1344     224.912 132.539 -10.975  1.00 33.03      A16S
ATOM  28386  C1* C   A1344     225.328 132.995 -12.249  1.00 33.03      A16S
ATOM  28387  N1  C   A1344     225.102 131.930 -13.249  1.00 66.32      A16S
ATOM  28388  C6  C   A1344     223.976 131.156 -13.206  1.00 66.32      A16S
ATOM  28389  C2  C   A1344     226.052 131.736 -14.270  1.00 66.32      A16S
ATOM  28390  O2  C   A1344     227.086 132.432 -14.285  1.00 66.32      A16S
ATOM  28391  N3  C   A1344     225.819 130.797 -15.213  1.00 66.32      A16S
ATOM  28392  C4  C   A1344     224.707 130.070 -15.168  1.00 66.32      A16S
ATOM  28393  N4  C   A1344     224.512 129.179 -16.127  1.00 66.32      A16S
ATOM  28394  C5  C   A1344     223.743 130.228 -14.138  1.00 66.32      A16S
ATOM  28395  C2* C   A1344     224.531 134.259 -12.573  1.00 33.03      A16S
ATOM  28396  O2* C   A1344     225.311 135.396 -12.272  1.00 33.03      A16S
ATOM  28397  C3* C   A1344     223.307 134.102 -11.684  1.00 33.03      A16S
ATOM  28398  O3* C   A1344     222.743 135.360 -11.368  1.00 33.03      A16S
ATOM  28399  P   U   A1345     221.804 136.096 -12.444  1.00 45.42      A16S
ATOM  28400  O1P U   A1345     221.439 137.439 -11.953  1.00 55.29      A16S
ATOM  28401  O2P U   A1345     220.740 135.157 -12.846  1.00 55.29      A16S
ATOM  28402  O5* U   A1345     222.740 136.345 -13.698  1.00 45.42      A16S
ATOM  28403  C5* U   A1345     223.758 137.339 -13.646  1.00 45.42      A16S
ATOM  28404  C4* U   A1345     223.443 138.443 -14.611  1.00 45.42      A16S
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ATOM  28405  O4*  U    A1345      223.596 137.949 -15.964  1.00 45.42      A16S
ATOM  28406  C1*  U    A1345      222.424 138.217 -16.691  1.00 45.42      A16S
ATOM  28407  N1   U    A1345      222.241 137.152 -17.684  1.00 55.29      A16S
ATOM  28408  C6   U    A1345      221.368 136.112 -17.496  1.00 55.29      A16S
ATOM  28409  C2   U    A1345      222.975 137.248 -18.826  1.00 55.29      A16S
ATOM  28410  O2   U    A1345      223.774 138.131 -19.015  1.00 55.29      A16S
ATOM  28411  N3   U    A1345      222.740 136.272 -19.747  1.00 55.29      A16S
ATOM  28412  C4   U    A1345      221.871 135.226 -19.638  1.00 55.29      A16S
ATOM  28413  O4   U    A1345      221.690 134.498 -20.607  1.00 55.29      A16S
ATOM  28414  C5   U    A1345      221.165 135.173 -18.410  1.00 55.29      A16S
ATOM  28415  C2*  U    A1345      221.304 138.379 -15.665  1.00 45.42      A16S
ATOM  28416  O2*  U    A1345      220.287 139.181 -16.231  1.00 45.42      A16S
ATOM  28417  C3*  U    A1345      222.044 139.043 -14.508  1.00 45.42      A16S
ATOM  28418  O3*  U    A1345      222.136 140.443 -14.763  1.00 45.42      A16S
ATOM  28419  P    A    A1346      221.907 141.498 -13.570  1.00 71.98      A16S
ATOM  28420  O1P  A    A1346      221.402 140.795 -12.356  1.00 52.04      A16S
ATOM  28421  O2P  A    A1346      221.118 142.614 -14.153  1.00 52.04      A16S
ATOM  28422  O5*  A    A1346      223.374 142.027 -13.252  1.00 71.98      A16S
ATOM  28423  C5*  A    A1346      223.760 142.325 -11.912  1.00 71.98      A16S
ATOM  28424  C4*  A    A1346      225.049 143.102 -11.894  1.00 71.98      A16S
ATOM  28425  O4*  A    A1346      226.100 142.261 -12.426  1.00 71.98      A16S
ATOM  28426  C1*  A    A1346      227.100 143.077 -12.998  1.00 71.98      A16S
ATOM  28427  N9   A    A1346      227.509 142.532 -14.289  1.00 52.04      A16S
ATOM  28428  C4   A    A1346      228.542 143.011 -15.050  1.00 52.04      A16S
ATOM  28429  N3   A    A1346      229.322 144.067 -14.784  1.00 52.04      A16S
ATOM  28430  C2   A    A1346      230.220 144.233 -15.742  1.00 52.04      A16S
ATOM  28431  N1   A    A1346      230.413 143.517 -16.849  1.00 52.04      A16S
ATOM  28432  C6   A    A1346      229.614 142.459 -17.078  1.00 52.04      A16S
ATOM  28433  N6   A    A1346      229.817 141.736 -18.173  1.00 52.04      A16S
ATOM  28434  C5   A    A1346      228.620 142.182 -16.144  1.00 52.04      A16S
ATOM  28435  N7   A    A1346      227.639 141.210 -16.093  1.00 52.04      A16S
ATOM  28436  C8   A    A1346      227.003 141.468 -14.977  1.00 52.04      A16S
ATOM  28437  C2*  A    A1346      226.621 144.531 -13.010  1.00 71.98      A16S
ATOM  28438  O2*  A    A1346      227.364 145.236 -12.036  1.00 71.98      A16S
ATOM  28439  C3*  A    A1346      225.125 144.382 -12.726  1.00 71.98      A16S
ATOM  28440  O3*  A    A1346      224.425 145.521 -12.140  1.00 71.98      A16S
ATOM  28441  P    G    A1347      225.056 146.385 -10.913  1.00 47.95      A16S
ATOM  28442  O1P  G    A1347      223.921 147.233 -10.477  1.00 66.63      A16S
ATOM  28443  O2P  G    A1347      226.338 147.033 -11.266  1.00 66.63      A16S
ATOM  28444  O5*  G    A1347      225.319 145.312  -9.760  1.00 47.95      A16S
ATOM  28445  C5*  G    A1347      226.244 145.556  -8.660  1.00 47.95      A16S
ATOM  28446  C4*  G    A1347      227.508 144.781  -8.902  1.00 47.95      A16S
ATOM  28447  O4*  G    A1347      228.364 145.597  -9.729  1.00 47.95      A16S
ATOM  28448  C1*  G    A1347      229.642 145.021  -9.714  1.00 47.95      A16S
ATOM  28449  N9   G    A1347      230.689 146.024  -9.832  1.00 66.63      A16S
ATOM  28450  C4   G    A1347      231.717 145.956 -10.725  1.00 66.63      A16S
ATOM  28451  N3   G    A1347      231.921 144.961 -11.611  1.00 66.63      A16S
ATOM  28452  C2   G    A1347      232.968 145.187 -12.374  1.00 66.63      A16S
ATOM  28453  N2   G    A1347      233.292 144.315 -13.336  1.00 66.63      A16S
ATOM  28454  N1   G    A1347      233.765 146.289 -12.259  1.00 66.63      A16S
ATOM  28455  C6   G    A1347      233.574 147.320 -11.347  1.00 66.63      A16S
ATOM  28456  O6   G    A1347      234.347 148.275 -11.335  1.00 66.63      A16S
ATOM  28457  C5   G    A1347      232.447 147.096 -10.533  1.00 66.63      A16S
ATOM  28458  N7   G    A1347      231.901 147.864  -9.519  1.00 66.63      A16S
ATOM  28459  C8   G    A1347      230.860 147.184  -9.128  1.00 66.63      A16S
ATOM  28460  C2*  G    A1347      229.729 144.071  -8.527  1.00 47.95      A16S
ATOM  28461  O2*  G    A1347      229.632 142.782  -9.098  1.00 47.95      A16S
ATOM  28462  C3*  G    A1347      228.447 144.373  -7.765  1.00 47.95      A16S
ATOM  28463  O3*  G    A1347      227.938 143.210  -7.077  1.00 47.95      A16S
ATOM  28464  P    U    A1348      228.859 141.878  -6.826  1.00 34.02      A16S
ATOM  28465  O1P  U    A1348      228.460 141.307  -5.498  1.00 48.91      A16S
ATOM  28466  O2P  U    A1348      230.302 142.093  -7.079  1.00 48.91      A16S
ATOM  28467  O5*  U    A1348      228.265 140.883  -7.926  1.00 34.02      A16S
ATOM  28468  C5*  U    A1348      226.842 140.538  -7.886  1.00 34.02      A16S
ATOM  28469  C4*  U    A1348      226.494 139.523  -8.942  1.00 34.02      A16S
ATOM  28470  O4*  U    A1348      226.486 140.165 -10.228  1.00 34.02      A16S
ATOM  28471  C1*  U    A1348      227.062 139.304 -11.185  1.00 34.02      A16S
ATOM  28472  N1   U    A1348      228.200 140.001 -11.792  1.00 48.91      A16S
ATOM  28473  C6   U    A1348      228.962 140.898 -11.082  1.00 48.91      A16S
ATOM  28474  C2   U    A1348      228.461 139.733 -13.101  1.00 48.91      A16S
ATOM  28475  O2   U    A1348      227.834 138.909 -13.733  1.00 48.91      A16S
ATOM  28476  N3   U    A1348      229.492 140.457 -13.643  1.00 48.91      A16S
ATOM  28477  C4   U    A1348      230.285 141.382 -12.998  1.00 48.91      A16S
ATOM  28478  O4   U    A1348      231.153 141.982 -13.629  1.00 48.91      A16S
ATOM  28479  C5   U    A1348      229.971 141.573 -11.626  1.00 48.91      A16S
ATOM  28480  C2*  U    A1348      227.425 137.983 -10.505  1.00 34.02      A16S
ATOM  28481  O2*  U    A1348      226.429 137.032 -10.757  1.00 34.02      A16S
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ATOM  28482  C3* U   A1348     227.480 138.382  -9.044  1.00 34.02      A16S
ATOM  28483  O3* U   A1348     227.031 137.327  -8.235  1.00 34.02      A16S
ATOM  28484  P    A   A1349     228.096 136.342  -7.576  1.00 39.20      A16S
ATOM  28485  O1P A   A1349     227.371 135.337  -6.759  1.00 62.88      A16S
ATOM  28486  O2P A   A1349     229.121 137.203  -6.932  1.00 62.88      A16S
ATOM  28487  O5* A   A1349     228.742 135.606  -8.832  1.00 39.20      A16S
ATOM  28488  C5* A   A1349     228.017 134.571  -9.512  1.00 39.20      A16S
ATOM  28489  C4* A   A1349     228.780 134.083 -10.714  1.00 39.20      A16S
ATOM  28490  O4* A   A1349     228.868 135.141 -11.695  1.00 39.20      A16S
ATOM  28491  C1* A   A1349     230.098 135.043 -12.386  1.00 39.20      A16S
ATOM  28492  N9   A   A1349     230.822 136.308 -12.228  1.00 62.88      A16S
ATOM  28493  C4   A   A1349     232.076 136.594 -12.711  1.00 62.88      A16S
ATOM  28494  N3   A   A1349     232.877 135.788 -13.419  1.00 62.88      A16S
ATOM  28495  C2   A   A1349     233.999 136.405 -13.717  1.00 62.88      A16S
ATOM  28496  N1   A   A1349     234.392 137.639 -13.408  1.00 62.88      A16S
ATOM  28497  C6   A   A1349     233.571 138.417 -12.687  1.00 62.88      A16S
ATOM  28498  N6   A   A1349     233.976 139.642 -12.361  1.00 62.88      A16S
ATOM  28499  C5   A   A1349     232.343 137.887 -12.318  1.00 62.88      A16S
ATOM  28500  N7   A   A1349     231.279 138.415 -11.608  1.00 62.88      A16S
ATOM  28501  C8   A   A1349     230.405 137.442 -11.581  1.00 62.88      A16S
ATOM  28502  C2* A   A1349     230.846 133.825 -11.837  1.00 39.20      A16S
ATOM  28503  O2* A   A1349     230.589 132.731 -12.686  1.00 39.20      A16S
ATOM  28504  C3* A   A1349     230.207 133.649 -10.471  1.00 39.20      A16S
ATOM  28505  O3* A   A1349     230.238 132.300 -10.085  1.00 39.20      A16S
ATOM  28506  P    A   A1350     231.334 131.817  -9.033  1.00 33.03      A16S
ATOM  28507  O1P A   A1350     231.194 130.359  -8.782  1.00 60.11      A16S
ATOM  28508  O2P A   A1350     231.272 132.761  -7.908  1.00 60.11      A16S
ATOM  28509  O5* A   A1350     232.719 132.097  -9.748  1.00 33.03      A16S
ATOM  28510  C5* A   A1350     233.122 131.384 -10.918  1.00 33.03      A16S
ATOM  28511  C4* A   A1350     234.389 131.995 -11.458  1.00 33.03      A16S
ATOM  28512  O4* A   A1350     234.088 133.307 -12.003  1.00 33.03      A16S
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ATOM  28514  N9   A   A1350     234.549 135.224 -10.756  1.00 60.11      A16S
ATOM  28515  C4   A   A1350     235.168 136.374 -10.332  1.00 60.11      A16S
ATOM  28516  N3   A   A1350     236.391 136.812 -10.665  1.00 60.11      A16S
ATOM  28517  C2   A   A1350     236.663 137.951 -10.052  1.00 60.11      A16S
ATOM  28518  N1   A   A1350     235.916 138.650  -9.197  1.00 60.11      A16S
ATOM  28519  C6   A   A1350     234.696 138.182  -8.873  1.00 60.11      A16S
ATOM  28520  N6   A   A1350     233.963 138.872  -7.995  1.00 60.11      A16S
ATOM  28521  C5   A   A1350     234.279 136.985  -9.474  1.00 60.11      A16S
ATOM  28522  N7   A   A1350     233.110 136.247  -9.373  1.00 60.11      A16S
ATOM  28523  C8   A   A1350     233.319 135.219 -10.151  1.00 60.11      A16S
ATOM  28524  C2* A   A1350     236.229 133.407 -10.972  1.00 33.03      A16S
ATOM  28525  O2* A   A1350     237.144 132.974 -11.959  1.00 33.03      A16S
ATOM  28526  C3* A   A1350     235.455 132.238 -10.397  1.00 33.03      A16S
ATOM  28527  O3* A   A1350     236.282 131.099 -10.225  1.00 33.03      A16S
ATOM  28528  P    U   A1351     236.809 130.713  -8.758  1.00 43.92      A16S
ATOM  28529  O1P U   A1351     237.453 129.373  -8.840  1.00 65.53      A16S
ATOM  28530  O2P U   A1351     235.703 130.933  -7.800  1.00 65.53      A16S
ATOM  28531  O5* U   A1351     237.925 131.808  -8.443  1.00 43.92      A16S
ATOM  28532  C5* U   A1351     239.058 131.993  -9.315  1.00 43.92      A16S
ATOM  28533  C4* U   A1351     239.764 133.291  -8.998  1.00 43.92      A16S
ATOM  28534  O4* U   A1351     238.902 134.410  -9.324  1.00 43.92      A16S
ATOM  28535  C1* U   A1351     239.096 135.450  -8.384  1.00 43.92      A16S
ATOM  28536  N1   U   A1351     237.819 135.710  -7.689  1.00 65.53      A16S
ATOM  28537  C6   U   A1351     236.819 134.770  -7.625  1.00 65.53      A16S
ATOM  28538  C2   U   A1351     237.654 136.946  -7.099  1.00 65.53      A16S
ATOM  28539  O2   U   A1351     238.513 137.800  -7.107  1.00 65.53      A16S
ATOM  28540  N3   U   A1351     236.448 137.150  -6.489  1.00 65.53      A16S
ATOM  28541  C4   U   A1351     235.412 136.265  -6.394  1.00 65.53      A16S
ATOM  28542  O4   U   A1351     234.371 136.615  -5.827  1.00 65.53      A16S
ATOM  28543  C5   U   A1351     235.654 134.997  -7.013  1.00 65.53      A16S
ATOM  28544  C2* U   A1351     240.227 135.019  -7.446  1.00 43.92      A16S
ATOM  28545  O2* U   A1351     241.468 135.518  -7.927  1.00 43.92      A16S
ATOM  28546  C3* U   A1351     240.141 133.504  -7.543  1.00 43.92      A16S
ATOM  28547  O3* U   A1351     241.373 132.888  -7.227  1.00 43.92      A16S
ATOM  28548  P    C   A1352     241.620 132.316  -5.744  1.00 43.68      A16S
ATOM  28549  O1P C   A1352     242.856 131.476  -5.799  1.00 80.92      A16S
ATOM  28550  O2P C   A1352     240.358 131.732  -5.222  1.00 80.92      A16S
ATOM  28551  O5* C   A1352     241.911 133.626  -4.896  1.00 43.68      A16S
ATOM  28552  C5* C   A1352     243.023 134.463  -5.226  1.00 43.68      A16S
ATOM  28553  C4* C   A1352     243.095 135.643  -4.295  1.00 43.68      A16S
ATOM  28554  O4* C   A1352     242.061 136.601  -4.624  1.00 43.68      A16S
ATOM  28555  C1* C   A1352     241.652 137.268  -3.448  1.00 43.68      A16S
ATOM  28556  N1   C   A1352     240.193 137.099  -3.288  1.00 80.92      A16S
ATOM  28557  C6   C   A1352     239.626 135.854  -3.268  1.00 80.92      A16S
ATOM  28558  C2   C   A1352     239.393 138.238  -3.149  1.00 80.92      A16S
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ATOM	28559	O2	C	A1352	239.924	139.357	-3.179	1.00	80.92	A16S
ATOM	28560	N3	C	A1352	238.060	138.091	-2.985	1.00	80.92	A16S
ATOM	28561	C4	C	A1352	237.518	136.872	-2.964	1.00	80.92	A16S
ATOM	28562	N4	C	A1352	236.194	136.777	-2.807	1.00	80.92	A16S
ATOM	28563	C5	C	A1352	238.307	135.696	-3.107	1.00	80.92	A16S
ATOM	28564	C2*	C	A1352	242.468	136.701	-2.280	1.00	43.68	A16S
ATOM	28565	O2*	C	A1352	243.571	137.539	-2.017	1.00	43.68	A16S
ATOM	28566	C3*	C	A1352	242.899	135.349	-2.823	1.00	43.68	A16S
ATOM	28567	O3*	C	A1352	244.081	134.876	-2.205	1.00	43.68	A16S
ATOM	28568	P	G	A1353	243.965	133.863	-0.968	1.00	51.36	A16S
ATOM	28569	O1P	G	A1353	245.307	133.269	-0.721	1.00	68.77	A16S
ATOM	28570	O2P	G	A1353	242.814	132.977	-1.224	1.00	68.77	A16S
ATOM	28571	O5*	G	A1353	243.588	134.798	0.263	1.00	51.36	A16S
ATOM	28572	C5*	G	A1353	244.591	135.616	0.871	1.00	51.36	A16S
ATOM	28573	C4*	G	A1353	243.991	136.879	1.434	1.00	51.36	A16S
ATOM	28574	O4*	G	A1353	243.025	137.413	0.503	1.00	51.36	A16S
ATOM	28575	C1*	G	A1353	242.034	138.127	1.212	1.00	51.36	A16S
ATOM	28576	N9	G	A1353	240.720	137.579	0.892	1.00	68.77	A16S
ATOM	28577	C4	G	A1353	239.523	138.099	1.304	1.00	68.77	A16S
ATOM	28578	N3	G	A1353	239.362	139.207	2.052	1.00	68.77	A16S
ATOM	28579	C2	G	A1353	238.095	139.448	2.299	1.00	68.77	A16S
ATOM	28580	N2	G	A1353	237.750	140.511	3.018	1.00	68.77	A16S
ATOM	28581	N1	G	A1353	237.072	138.667	1.856	1.00	68.77	A16S
ATOM	28582	C6	G	A1353	237.216	137.521	1.091	1.00	68.77	A16S
ATOM	28583	O6	G	A1353	236.225	136.885	0.757	1.00	68.77	A16S
ATOM	28584	C5	G	A1353	238.565	137.251	0.808	1.00	68.77	A16S
ATOM	28585	N7	G	A1353	239.144	136.221	0.082	1.00	68.77	A16S
ATOM	28586	C8	G	A1353	240.423	136.457	0.156	1.00	68.77	A16S
ATOM	28587	C2*	G	A1353	242.357	138.023	2.703	1.00	51.36	A16S
ATOM	28588	O2*	G	A1353	243.054	139.187	3.101	1.00	51.36	A16S
ATOM	28589	C3*	G	A1353	243.240	136.785	2.750	1.00	51.36	A16S
ATOM	28590	O3*	G	A1353	244.157	136.894	3.827	1.00	51.36	A16S
ATOM	28591	P	C	A1354	243.737	136.397	5.291	1.00	48.71	A16S
ATOM	28592	O1P	C	A1354	244.943	136.518	6.166	1.00	66.10	A16S
ATOM	28593	O2P	C	A1354	243.080	135.071	5.125	1.00	66.10	A16S
ATOM	28594	O5*	C	A1354	242.638	137.456	5.751	1.00	48.71	A16S
ATOM	28595	C5*	C	A1354	242.998	138.818	5.998	1.00	48.71	A16S
ATOM	28596	C4*	C	A1354	241.845	139.565	6.623	1.00	48.71	A16S
ATOM	28597	O4*	C	A1354	240.872	139.970	5.623	1.00	48.71	A16S
ATOM	28598	C1*	C	A1354	239.574	139.950	6.196	1.00	48.71	A16S
ATOM	28599	N1	C	A1354	238.784	138.899	5.529	1.00	66.10	A16S
ATOM	28600	C6	C	A1354	239.405	137.834	4.941	1.00	66.10	A16S
ATOM	28601	C2	C	A1354	237.381	138.983	5.536	1.00	66.10	A16S
ATOM	28602	O2	C	A1354	236.830	139.979	6.034	1.00	66.10	A16S
ATOM	28603	N3	C	A1354	236.666	137.975	4.998	1.00	66.10	A16S
ATOM	28604	C4	C	A1354	237.290	136.925	4.463	1.00	66.10	A16S
ATOM	28605	N4	C	A1354	236.546	135.936	3.981	1.00	66.10	A16S
ATOM	28606	C5	C	A1354	238.703	136.837	4.407	1.00	66.10	A16S
ATOM	28607	C2*	C	A1354	239.730	139.589	7.675	1.00	48.71	A16S
ATOM	28608	O2*	C	A1354	239.802	140.772	8.439	1.00	48.71	A16S
ATOM	28609	C3*	C	A1354	241.039	138.814	7.667	1.00	48.71	A16S
ATOM	28610	O3*	C	A1354	241.666	138.806	8.937	1.00	48.71	A16S
ATOM	28611	P	G	A1355	241.264	137.679	10.010	1.00	48.51	A16S
ATOM	28612	O1P	G	A1355	242.258	137.687	11.120	1.00	78.01	A16S
ATOM	28613	O2P	G	A1355	241.049	136.425	9.255	1.00	78.01	A16S
ATOM	28614	O5*	G	A1355	239.849	138.184	10.567	1.00	48.51	A16S
ATOM	28615	C5*	G	A1355	239.694	139.498	11.169	1.00	48.51	A16S
ATOM	28616	C4*	G	A1355	238.228	139.801	11.461	1.00	48.51	A16S
ATOM	28617	O4*	G	A1355	237.479	139.912	10.216	1.00	48.51	A16S
ATOM	28618	C1*	G	A1355	236.158	139.417	10.397	1.00	48.51	A16S
ATOM	28619	N9	G	A1355	235.999	138.213	9.579	1.00	78.01	A16S
ATOM	28620	C4	G	A1355	234.835	137.496	9.362	1.00	78.01	A16S
ATOM	28621	N3	G	A1355	233.614	137.787	9.852	1.00	78.01	A16S
ATOM	28622	C2	G	A1355	232.712	136.892	9.486	1.00	78.01	A16S
ATOM	28623	N2	G	A1355	231.449	137.005	9.894	1.00	78.01	A16S
ATOM	28624	N1	G	A1355	232.979	135.814	8.698	1.00	78.01	A16S
ATOM	28625	C6	G	A1355	234.222	135.494	8.181	1.00	78.01	A16S
ATOM	28626	O6	G	A1355	234.353	134.490	7.479	1.00	78.01	A16S
ATOM	28627	C5	G	A1355	235.206	136.434	8.569	1.00	78.01	A16S
ATOM	28628	N7	G	A1355	236.564	136.480	8.283	1.00	78.01	A16S
ATOM	28629	C8	G	A1355	236.989	137.551	8.893	1.00	78.01	A16S
ATOM	28630	C2*	G	A1355	236.005	139.086	11.879	1.00	48.51	A16S
ATOM	28631	O2*	G	A1355	235.493	140.216	12.543	1.00	48.51	A16S
ATOM	28632	C3*	G	A1355	237.441	138.789	12.286	1.00	48.51	A16S
ATOM	28633	O3*	G	A1355	237.603	138.945	13.688	1.00	48.51	A16S
ATOM	28634	P	G	A1356	237.389	137.676	14.651	1.00	70.94	A16S
ATOM	28635	O1P	G	A1356	237.800	138.013	16.028	1.00	66.60	A16S

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ATOM  28636  O2P G   A1356     237.992 136.500  13.977  1.00 66.60      A16S
ATOM  28637  O5* G   A1356     235.812 137.479  14.698  1.00 70.94      A16S
ATOM  28638  C5* G   A1356     234.941 138.545  15.121  1.00 70.94      A16S
ATOM  28639  C4* G   A1356     233.500 138.104  15.020  1.00 70.94      A16S
ATOM  28640  O4* G   A1356     233.215 137.743  13.642  1.00 70.94      A16S
ATOM  28641  C1* G   A1356     232.321 136.646  13.611  1.00 70.94      A16S
ATOM  28642  N9  G   A1356     232.954 135.540  12.899  1.00 66.60      A16S
ATOM  28643  C4  G   A1356     232.309 134.492  12.285  1.00 66.60      A16S
ATOM  28644  N3  G   A1356     230.974 134.308  12.227  1.00 66.60      A16S
ATOM  28645  C2  G   A1356     230.660 133.198  11.595  1.00 66.60      A16S
ATOM  28646  N2  G   A1356     229.380 132.850  11.466  1.00 66.60      A16S
ATOM  28647  N1  G   A1356     231.580 132.342  11.051  1.00 66.60      A16S
ATOM  28648  C6  G   A1356     232.959 132.510  11.100  1.00 66.60      A16S
ATOM  28649  O6  G   A1356     233.705 131.665  10.591  1.00 66.60      A16S
ATOM  28650  C5  G   A1356     233.310 133.693  11.780  1.00 66.60      A16S
ATOM  28651  N7  G   A1356     234.558 134.228  12.060  1.00 66.60      A16S
ATOM  28652  C8  G   A1356     234.298 135.323  12.721  1.00 66.60      A16S
ATOM  28653  C2* G   A1356     231.963 136.285  15.054  1.00 70.94      A16S
ATOM  28654  O2* G   A1356     230.724 136.880  15.367  1.00 70.94      A16S
ATOM  28655  C3* G   A1356     233.138 136.869  15.833  1.00 70.94      A16S
ATOM  28656  O3* G   A1356     232.781 137.221  17.170  1.00 70.94      A16S
ATOM  28657  P   A   A1357     232.884 136.126  18.344  1.00 61.91      A16S
ATOM  28658  O1P A   A1357     232.746 136.834  19.641  1.00 70.93      A16S
ATOM  28659  O2P A   A1357     234.061 135.266  18.105  1.00 70.93      A16S
ATOM  28660  O5* A   A1357     231.594 135.222  18.141  1.00 61.91      A16S
ATOM  28661  C5* A   A1357     230.266 135.789  18.196  1.00 61.91      A16S
ATOM  28662  C4* A   A1357     229.247 134.777  17.722  1.00 61.91      A16S
ATOM  28663  O4* A   A1357     229.432 134.532  16.307  1.00 61.91      A16S
ATOM  28664  C1* A   A1357     229.246 133.157  16.036  1.00 61.91      A16S
ATOM  28665  N9  A   A1357     230.483 132.629  15.454  1.00 70.93      A16S
ATOM  28666  C4  A   A1357     230.589 131.531  14.638  1.00 70.93      A16S
ATOM  28667  N3  A   A1357     229.598 130.731  14.216  1.00 70.93      A16S
ATOM  28668  C2  A   A1357     230.078 129.757  13.456  1.00 70.93      A16S
ATOM  28669  N1  A   A1357     231.335 129.515  13.090  1.00 70.93      A16S
ATOM  28670  C6  A   A1357     232.303 130.348  13.520  1.00 70.93      A16S
ATOM  28671  N6  A   A1357     233.558 130.121  13.137  1.00 70.93      A16S
ATOM  28672  C5  A   A1357     231.929 131.410  14.342  1.00 70.93      A16S
ATOM  28673  N7  A   A1357     232.661 132.411  14.957  1.00 70.93      A16S
ATOM  28674  C8  A   A1357     231.761 133.106  15.602  1.00 70.93      A16S
ATOM  28675  C2* A   A1357     228.830 132.465  17.340  1.00 61.91      A16S
ATOM  28676  O2* A   A1357     227.421 132.383  17.422  1.00 61.91      A16S
ATOM  28677  C3* A   A1357     229.375 133.417  18.388  1.00 61.91      A16S
ATOM  28678  O3* A   A1357     228.575 133.376  19.553  1.00 61.91      A16S
ATOM  28679  P   U   A1358     229.234 132.983  20.954  1.00 52.84      A16S
ATOM  28680  O1P U   A1358     228.189 133.287  21.963  1.00 64.99      A16S
ATOM  28681  O2P U   A1358     230.570 133.625  21.061  1.00 64.99      A16S
ATOM  28682  O5* U   A1358     229.442 131.410  20.864  1.00 52.84      A16S
ATOM  28683  C5* U   A1358     228.323 130.539  20.673  1.00 52.84      A16S
ATOM  28684  C4* U   A1358     228.779 129.223  20.109  1.00 52.84      A16S
ATOM  28685  O4* U   A1358     229.326 129.422  18.794  1.00 52.84      A16S
ATOM  28686  C1* U   A1358     230.206 128.360  18.510  1.00 52.84      A16S
ATOM  28687  N1  U   A1358     231.353 128.867  17.750  1.00 64.99      A16S
ATOM  28688  C6  U   A1358     231.863 130.120  17.968  1.00 64.99      A16S
ATOM  28689  C2  U   A1358     231.920 128.020  16.823  1.00 64.99      A16S
ATOM  28690  O2  U   A1358     231.462 126.922  16.565  1.00 64.99      A16S
ATOM  28691  N3  U   A1358     233.044 128.504  16.210  1.00 64.99      A16S
ATOM  28692  C4  U   A1358     233.636 129.728  16.420  1.00 64.99      A16S
ATOM  28693  O4  U   A1358     234.733 129.961  15.915  1.00 64.99      A16S
ATOM  28694  C5  U   A1358     232.954 130.568  17.351  1.00 64.99      A16S
ATOM  28695  C2* U   A1358     230.589 127.685  19.832  1.00 52.84      A16S
ATOM  28696  O2* U   A1358     230.182 126.333  19.885  1.00 52.84      A16S
ATOM  28697  C3* U   A1358     229.908 128.565  20.875  1.00 52.84      A16S
ATOM  28698  O3* U   A1358     229.363 127.756  21.903  1.00 52.84      A16S
ATOM  28699  P   C   A1359     229.768 128.029  23.429  1.00 67.90      A16S
ATOM  28700  O1P C   A1359     229.113 126.964  24.262  1.00 52.96      A16S
ATOM  28701  O2P C   A1359     229.474 129.473  23.689  1.00 52.96      A16S
ATOM  28702  O5* C   A1359     231.344 127.796  23.450  1.00 67.90      A16S
ATOM  28703  C5* C   A1359     231.897 126.491  23.209  1.00 67.90      A16S
ATOM  28704  C4* C   A1359     233.312 126.607  22.694  1.00 67.90      A16S
ATOM  28705  O4* C   A1359     233.294 127.380  21.477  1.00 67.90      A16S
ATOM  28706  C1* C   A1359     234.479 128.136  21.375  1.00 67.90      A16S
ATOM  28707  N1  C   A1359     234.114 129.547  21.182  1.00 52.96      A16S
ATOM  28708  C6  C   A1359     232.924 130.046  21.640  1.00 52.96      A16S
ATOM  28709  C2  C   A1359     234.998 130.368  20.483  1.00 52.96      A16S
ATOM  28710  O2  C   A1359     236.099 129.898  20.123  1.00 52.96      A16S
ATOM  28711  N3  C   A1359     234.642 131.650  20.212  1.00 52.96      A16S
ATOM  28712  C4  C   A1359     233.459 132.116  20.620  1.00 52.96      A16S
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ATOM  28713  N4  C   A1359     233.128 133.372  20.278  1.00 52.96      A16S
ATOM  28714  C5  C   A1359     232.557 131.312  21.382  1.00 52.96      A16S
ATOM  28715  C2* C   A1359     235.343 127.838  22.594  1.00 67.90      A16S
ATOM  28716  O2* C   A1359     236.271 126.831  22.254  1.00 67.90      A16S
ATOM  28717  C3* C   A1359     234.307 127.334  23.583  1.00 67.90      A16S
ATOM  28718  O3* C   A1359     234.888 126.460  24.540  1.00 67.90      A16S
ATOM  28719  P   A   A1360     235.397 127.053  25.947  1.00 79.44      A16S
ATOM  28720  O1P A   A1360     234.675 128.343  26.215  1.00 62.35      A16S
ATOM  28721  O2P A   A1360     235.341 125.940  26.947  1.00 62.35      A16S
ATOM  28722  O5* A   A1360     236.922 127.408  25.665  1.00 79.44      A16S
ATOM  28723  C5* A   A1360     237.670 128.233  26.572  1.00 79.44      A16S
ATOM  28724  C4* A   A1360     239.071 127.701  26.707  1.00 79.44      A16S
ATOM  28725  O4* A   A1360     239.059 126.469  27.461  1.00 79.44      A16S
ATOM  28726  C1* A   A1360     240.004 125.575  26.918  1.00 79.44      A16S
ATOM  28727  N9  A   A1360     239.312 124.330  26.614  1.00 62.35      A16S
ATOM  28728  C4  A   A1360     239.874 123.150  26.199  1.00 62.35      A16S
ATOM  28729  N3  A   A1360     241.162 122.920  25.902  1.00 62.35      A16S
ATOM  28730  C2  A   A1360     241.352 121.639  25.601  1.00 62.35      A16S
ATOM  28731  N1  A   A1360     240.471 120.636  25.575  1.00 62.35      A16S
ATOM  28732  C6  A   A1360     239.184 120.902  25.878  1.00 62.35      A16S
ATOM  28733  N6  A   A1360     238.301 119.895  25.879  1.00 62.35      A16S
ATOM  28734  C5  A   A1360     238.849 122.227  26.192  1.00 62.35      A16S
ATOM  28735  N7  A   A1360     237.646 122.828  26.529  1.00 62.35      A16S
ATOM  28736  C8  A   A1360     237.973 124.075  26.755  1.00 62.35      A16S
ATOM  28737  C2* A   A1360     240.703 126.256  25.745  1.00 79.44      A16S
ATOM  28738  O2* A   A1360     241.929 126.778  26.194  1.00 79.44      A16S
ATOM  28739  C3* A   A1360     239.709 127.348  25.382  1.00 79.44      A16S
ATOM  28740  O3* A   A1360     240.336 128.492  24.839  1.00 79.44      A16S
ATOM  28741  P   G   A1361     240.295 128.722  23.262  1.00 44.69      A16S
ATOM  28742  O1P G   A1361     241.225 129.825  22.907  1.00 53.37      A16S
ATOM  28743  O2P G   A1361     238.861 128.824  22.881  1.00 53.37      A16S
ATOM  28744  O5* G   A1361     240.927 127.367  22.714  1.00 44.69      A16S
ATOM  28745  C5* G   A1361     242.320 127.080  22.945  1.00 44.69      A16S
ATOM  28746  C4* G   A1361     242.684 125.726  22.389  1.00 44.69      A16S
ATOM  28747  O4* G   A1361     242.178 124.676  23.243  1.00 44.69      A16S
ATOM  28748  C1* G   A1361     241.727 123.600  22.453  1.00 44.69      A16S
ATOM  28749  N9  G   A1361     240.281 123.510  22.626  1.00 53.37      A16S
ATOM  28750  C4  G   A1361     239.525 122.368  22.594  1.00 53.37      A16S
ATOM  28751  N3  G   A1361     239.993 121.115  22.423  1.00 53.37      A16S
ATOM  28752  C2  G   A1361     239.023 120.225  22.424  1.00 53.37      A16S
ATOM  28753  N2  G   A1361     239.303 118.923  22.289  1.00 53.37      A16S
ATOM  28754  N1  G   A1361     237.703 120.541  22.564  1.00 53.37      A16S
ATOM  28755  C6  G   A1361     237.198 121.822  22.736  1.00 53.37      A16S
ATOM  28756  O6  G   A1361     235.979 121.991  22.849  1.00 53.37      A16S
ATOM  28757  C5  G   A1361     238.225 122.786  22.753  1.00 53.37      A16S
ATOM  28758  N7  G   A1361     238.162 124.165  22.901  1.00 53.37      A16S
ATOM  28759  C8  G   A1361     239.402 124.552  22.823  1.00 53.37      A16S
ATOM  28760  C2* G   A1361     242.089 123.912  20.999  1.00 44.69      A16S
ATOM  28761  O2* G   A1361     243.341 123.355  20.666  1.00 44.69      A16S
ATOM  28762  C3* G   A1361     242.122 125.426  21.017  1.00 44.69      A16S
ATOM  28763  O3* G   A1361     242.939 125.963  20.004  1.00 44.69      A16S
ATOM  28764  P   C   A1361A    242.254 126.577  18.699  1.00 65.60      A16S
ATOM  28765  O1P C   A1361A    243.334 127.107  17.832  1.00 71.12      A16S
ATOM  28766  O2P C   A1361A    241.168 127.481  19.132  1.00 71.12      A16S
ATOM  28767  O5* C   A1361A    241.605 125.283  18.034  1.00 65.60      A16S
ATOM  28768  C5* C   A1361A    242.429 124.145  17.697  1.00 65.60      A16S
ATOM  28769  C4* C   A1361A    241.587 123.001  17.177  1.00 65.60      A16S
ATOM  28770  O4* C   A1361A    240.827 122.408  18.263  1.00 65.60      A16S
ATOM  28771  C1* C   A1361A    239.581 121.944  17.775  1.00 65.60      A16S
ATOM  28772  N1  C   A1361A    238.491 122.623  18.507  1.00 71.12      A16S
ATOM  28773  C6  C   A1361A    238.611 123.929  18.901  1.00 71.12      A16S
ATOM  28774  C2  C   A1361A    237.310 121.915  18.777  1.00 71.12      A16S
ATOM  28775  O2  C   A1361A    237.226 120.718  18.438  1.00 71.12      A16S
ATOM  28776  N3  C   A1361A    236.287 122.550  19.401  1.00 71.12      A16S
ATOM  28777  C4  C   A1361A    236.410 123.829  19.755  1.00 71.12      A16S
ATOM  28778  N4  C   A1361A    235.368 124.416  20.333  1.00 71.12      A16S
ATOM  28779  C5  C   A1361A    237.606 124.563  19.521  1.00 71.12      A16S
ATOM  28780  C2* C   A1361A    239.545 122.212  16.267  1.00 65.60      A16S
ATOM  28781  O2* C   A1361A    239.968 121.050  15.594  1.00 65.60      A16S
ATOM  28782  C3* C   A1361A    240.557 123.342  16.113  1.00 65.60      A16S
ATOM  28783  O3* C   A1361A    241.134 123.383  14.806  1.00 65.60      A16S
ATOM  28784  P   C   A1362     240.250 123.891  13.551  1.00 60.92      A16S
ATOM  28785  O1P C   A1362     241.102 124.730  12.665  1.00 54.77      A16S
ATOM  28786  O2P C   A1362     238.958 124.445  14.048  1.00 54.77      A16S
ATOM  28787  O5* C   A1362     239.999 122.551  12.728  1.00 60.92      A16S
ATOM  28788  C5* C   A1362     238.808 121.756  12.889  1.00 60.92      A16S
ATOM  28789  C4* C   A1362     239.104 120.323  12.517  1.00 60.92      A16S
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ATOM	28790	O4*	C	A1362	239.725	119.662	13.639	1.00	60.92	A16S
ATOM	28791	C1*	C	A1362	239.502	118.278	13.535	1.00	60.92	A16S
ATOM	28792	N1	C	A1362	239.170	117.709	14.846	1.00	54.77	A16S
ATOM	28793	C6	C	A1362	238.544	118.431	15.825	1.00	54.77	A16S
ATOM	28794	C2	C	A1362	239.521	116.391	15.068	1.00	54.77	A16S
ATOM	28795	O2	C	A1362	240.082	115.762	14.145	1.00	54.77	A16S
ATOM	28796	N3	C	A1362	239.252	115.822	16.264	1.00	54.77	A16S
ATOM	28797	C4	C	A1362	238.656	116.528	17.220	1.00	54.77	A16S
ATOM	28798	N4	C	A1362	238.431	115.917	18.388	1.00	54.77	A16S
ATOM	28799	C5	C	A1362	238.271	117.884	17.020	1.00	54.77	A16S
ATOM	28800	C2*	C	A1362	238.466	118.031	12.446	1.00	60.92	A16S
ATOM	28801	O2*	C	A1362	239.165	117.473	11.350	1.00	60.92	A16S
ATOM	28802	C3*	C	A1362	237.915	119.436	12.204	1.00	60.92	A16S
ATOM	28803	O3*	C	A1362	237.549	119.606	10.845	1.00	60.92	A16S
ATOM	28804	P	A	A1363	236.596	120.822	10.429	1.00	52.53	A16S
ATOM	28805	O1P	A	A1363	235.926	121.361	11.639	1.00	77.16	A16S
ATOM	28806	O2P	A	A1363	235.781	120.371	9.280	1.00	77.16	A16S
ATOM	28807	O5*	A	A1363	237.592	121.932	9.906	1.00	52.53	A16S
ATOM	28808	C5*	A	A1363	237.531	122.369	8.550	1.00	52.53	A16S
ATOM	28809	C4*	A	A1363	237.351	123.855	8.509	1.00	52.53	A16S
ATOM	28810	O4*	A	A1363	236.047	124.194	9.033	1.00	52.53	A16S
ATOM	28811	C1*	A	A1363	236.182	125.082	10.116	1.00	52.53	A16S
ATOM	28812	N9	A	A1363	235.124	124.778	11.075	1.00	77.16	A16S
ATOM	28813	C4	A	A1363	234.720	125.556	12.131	1.00	77.16	A16S
ATOM	28814	N3	A	A1363	235.222	126.741	12.510	1.00	77.16	A16S
ATOM	28815	C2	A	A1363	234.584	127.197	13.582	1.00	77.16	A16S
ATOM	28816	N1	A	A1363	233.578	126.648	14.265	1.00	77.16	A16S
ATOM	28817	C6	A	A1363	233.095	125.457	13.856	1.00	77.16	A16S
ATOM	28818	N6	A	A1363	232.089	124.902	14.536	1.00	77.16	A16S
ATOM	28819	C5	A	A1363	233.686	124.867	12.731	1.00	77.16	A16S
ATOM	28820	N7	A	A1363	233.442	123.673	12.069	1.00	77.16	A16S
ATOM	28821	C8	A	A1363	234.319	123.668	11.100	1.00	77.16	A16S
ATOM	28822	C2*	A	A1363	237.612	124.910	10.630	1.00	52.53	A16S
ATOM	28823	O2*	A	A1363	238.098	126.087	11.251	1.00	52.53	A16S
ATOM	28824	C3*	A	A1363	238.365	124.621	9.338	1.00	52.53	A16S
ATOM	28825	O3*	A	A1363	238.661	125.834	8.664	1.00	52.53	A16S
ATOM	28826	P	U	A1364	239.826	125.859	7.563	1.00	35.18	A16S
ATOM	28827	O1P	U	A1364	240.273	127.287	7.426	1.00	49.32	A16S
ATOM	28828	O2P	U	A1364	240.811	124.797	7.948	1.00	49.32	A16S
ATOM	28829	O5*	U	A1364	239.100	125.408	6.218	1.00	35.18	A16S
ATOM	28830	C5*	U	A1364	238.805	126.368	5.178	1.00	35.18	A16S
ATOM	28831	C4*	U	A1364	238.179	125.670	3.999	1.00	35.18	A16S
ATOM	28832	O4*	U	A1364	238.988	124.510	3.695	1.00	35.18	A16S
ATOM	28833	C1*	U	A1364	238.197	123.356	3.728	1.00	35.18	A16S
ATOM	28834	N1	U	A1364	239.046	122.255	4.189	1.00	49.32	A16S
ATOM	28835	C6	U	A1364	239.906	122.410	5.236	1.00	49.32	A16S
ATOM	28836	C2	U	A1364	238.976	121.068	3.496	1.00	49.32	A16S
ATOM	28837	O2	U	A1364	238.179	120.872	2.594	1.00	49.32	A16S
ATOM	28838	N3	U	A1364	239.871	120.112	3.893	1.00	49.32	A16S
ATOM	28839	C4	U	A1364	240.796	120.220	4.897	1.00	49.32	A16S
ATOM	28840	O4	U	A1364	241.661	119.355	5.008	1.00	49.32	A16S
ATOM	28841	C5	U	A1364	240.760	121.460	5.605	1.00	49.32	A16S
ATOM	28842	C2*	U	A1364	236.970	123.695	4.562	1.00	35.18	A16S
ATOM	28843	O2*	U	A1364	235.881	122.910	4.144	1.00	35.18	A16S
ATOM	28844	C3*	U	A1364	236.763	125.155	4.191	1.00	35.18	A16S
ATOM	28845	O3*	U	A1364	236.152	125.210	2.917	1.00	35.18	A16S
ATOM	28846	P	G	A1365	234.666	125.770	2.765	1.00	33.15	A16S
ATOM	28847	O1P	G	A1365	234.115	125.254	1.490	1.00	73.89	A16S
ATOM	28848	O2P	G	A1365	234.724	127.238	2.991	1.00	73.89	A16S
ATOM	28849	O5*	G	A1365	233.897	125.081	3.978	1.00	33.15	A16S
ATOM	28850	C5*	G	A1365	233.167	123.851	3.809	1.00	33.15	A16S
ATOM	28851	C4*	G	A1365	231.962	123.833	4.722	1.00	33.15	A16S
ATOM	28852	O4*	G	A1365	232.386	123.609	6.088	1.00	33.15	A16S
ATOM	28853	C1*	G	A1365	231.575	124.378	6.969	1.00	33.15	A16S
ATOM	28854	N9	G	A1365	232.418	125.297	7.736	1.00	73.89	A16S
ATOM	28855	C4	G	A1365	232.049	125.999	8.864	1.00	73.89	A16S
ATOM	28856	N3	G	A1365	230.837	125.974	9.453	1.00	73.89	A16S
ATOM	28857	C2	G	A1365	230.791	126.753	10.517	1.00	73.89	A16S
ATOM	28858	N2	G	A1365	229.657	126.852	11.227	1.00	73.89	A16S
ATOM	28859	N1	G	A1365	231.849	127.493	10.964	1.00	73.89	A16S
ATOM	28860	C6	G	A1365	233.102	127.534	10.372	1.00	73.89	A16S
ATOM	28861	O6	G	A1365	233.990	128.239	10.859	1.00	73.89	A16S
ATOM	28862	C5	G	A1365	233.165	126.708	9.233	1.00	73.89	A16S
ATOM	28863	N7	G	A1365	234.212	126.473	8.357	1.00	73.89	A16S
ATOM	28864	C8	G	A1365	233.725	125.633	7.488	1.00	73.89	A16S
ATOM	28865	C2*	G	A1365	230.530	125.113	6.130	1.00	33.15	A16S
ATOM	28866	O2*	G	A1365	229.333	124.375	6.113	1.00	33.15	A16S

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ATOM  28867  C3* G   A1365     231.186 125.139   4.764  1.00 33.15      A16S
ATOM  28868  O3* G   A1365     230.202 125.220   3.761  1.00 33.15      A16S
ATOM  28869  P    C   A1366     229.582 126.649   3.395  1.00 54.47      A16S
ATOM  28870  O1P C   A1366     228.455 126.437   2.447  1.00 72.91      A16S
ATOM  28871  O2P C   A1366     230.701 127.551   3.014  1.00 72.91      A16S
ATOM  28872  O5* C   A1366     228.976 127.163   4.776  1.00 54.47      A16S
ATOM  28873  C5* C   A1366     227.723 126.646   5.274  1.00 54.47      A16S
ATOM  28874  C4* C   A1366     227.250 127.456   6.461  1.00 54.47      A16S
ATOM  28875  O4* C   A1366     228.207 127.333   7.538  1.00 54.47      A16S
ATOM  28876  C1* C   A1366     228.315 128.568   8.215  1.00 54.47      A16S
ATOM  28877  N1   C   A1366     229.730 128.983   8.180  1.00 72.91      A16S
ATOM  28878  C6   C   A1366     230.559 128.547   7.187  1.00 72.91      A16S
ATOM  28879  C2   C   A1366     230.214 129.819   9.178  1.00 72.91      A16S
ATOM  28880  O2   C   A1366     229.445 130.212  10.058  1.00 72.91      A16S
ATOM  28881  N3   C   A1366     231.507 130.183   9.160  1.00 72.91      A16S
ATOM  28882  C4   C   A1366     232.308 129.750   8.190  1.00 72.91      A16S
ATOM  28883  N4   C   A1366     233.584 130.135   8.215  1.00 72.91      A16S
ATOM  28884  C5   C   A1366     231.841 128.903   7.155  1.00 72.91      A16S
ATOM  28885  C2* C   A1366     227.322 129.555   7.586  1.00 54.47      A16S
ATOM  28886  O2* C   A1366     226.124 129.596   8.332  1.00 54.47      A16S
ATOM  28887  C3* C   A1366     227.092 128.946   6.214  1.00 54.47      A16S
ATOM  28888  O3* C   A1366     225.771 129.209   5.782  1.00 54.47      A16S
ATOM  28889  P    C   A1367     225.495 130.423   4.778  1.00 35.22      A16S
ATOM  28890  O1P C   A1367     224.088 130.330   4.301  1.00 63.87      A16S
ATOM  28891  O2P C   A1367     226.608 130.432   3.791  1.00 63.87      A16S
ATOM  28892  O5* C   A1367     225.617 131.720   5.704  1.00 35.22      A16S
ATOM  28893  C5* C   A1367     224.671 131.973   6.783  1.00 35.22      A16S
ATOM  28894  C4* C   A1367     225.109 133.157   7.629  1.00 35.22      A16S
ATOM  28895  O4* C   A1367     226.278 132.823   8.416  1.00 35.22      A16S
ATOM  28896  C1* C   A1367     227.113 133.960   8.533  1.00 35.22      A16S
ATOM  28897  N1   C   A1367     228.476 133.608   8.079  1.00 63.87      A16S
ATOM  28898  C6   C   A1367     228.730 132.391   7.509  1.00 63.87      A16S
ATOM  28899  C2   C   A1367     229.519 134.546   8.236  1.00 63.87      A16S
ATOM  28900  O2   C   A1367     229.279 135.644   8.766  1.00 63.87      A16S
ATOM  28901  N3   C   A1367     230.758 134.228   7.800  1.00 63.87      A16S
ATOM  28902  C4   C   A1367     230.982 133.043   7.227  1.00 63.87      A16S
ATOM  28903  N4   C   A1367     232.209 132.783   6.785  1.00 63.87      A16S
ATOM  28904  C5   C   A1367     229.953 132.072   7.074  1.00 63.87      A16S
ATOM  28905  C2* C   A1367     226.466 135.114   7.764  1.00 35.22      A16S
ATOM  28906  O2* C   A1367     225.855 135.998   8.674  1.00 35.22      A16S
ATOM  28907  C3* C   A1367     225.490 134.390   6.846  1.00 35.22      A16S
ATOM  28908  O3* C   A1367     224.343 135.164   6.592  1.00 35.22      A16S
ATOM  28909  P    G   A1368     224.287 136.051   5.273  1.00 45.28      A16S
ATOM  28910  O1P G   A1368     223.069 136.901   5.273  1.00 48.04      A16S
ATOM  28911  O2P G   A1368     224.503 135.081   4.184  1.00 48.04      A16S
ATOM  28912  O5* G   A1368     225.557 137.011   5.405  1.00 45.28      A16S
ATOM  28913  C5* G   A1368     225.549 138.076   6.379  1.00 45.28      A16S
ATOM  28914  C4* G   A1368     226.935 138.690   6.610  1.00 45.28      A16S
ATOM  28915  O4* G   A1368     227.893 137.743   7.160  1.00 45.28      A16S
ATOM  28916  C1* G   A1368     229.197 138.264   6.979  1.00 45.28      A16S
ATOM  28917  N9   G   A1368     230.054 137.279   6.326  1.00 48.04      A16S
ATOM  28918  C4   G   A1368     231.422 137.392   6.192  1.00 48.04      A16S
ATOM  28919  N3   G   A1368     232.185 138.423   6.642  1.00 48.04      A16S
ATOM  28920  C2   G   A1368     233.458 138.265   6.339  1.00 48.04      A16S
ATOM  28921  N2   G   A1368     234.341 139.208   6.667  1.00 48.04      A16S
ATOM  28922  N1   G   A1368     233.951 137.177   5.677  1.00 48.04      A16S
ATOM  28923  C6   G   A1368     233.193 136.103   5.215  1.00 48.04      A16S
ATOM  28924  O6   G   A1368     233.748 135.169   4.639  1.00 48.04      A16S
ATOM  28925  C5   G   A1368     231.816 136.266   5.508  1.00 48.04      A16S
ATOM  28926  N7   G   A1368     230.724 135.454   5.219  1.00 48.04      A16S
ATOM  28927  C8   G   A1368     229.702 136.095   5.721  1.00 48.04      A16S
ATOM  28928  C2* G   A1368     229.086 139.532   6.134  1.00 45.28      A16S
ATOM  28929  O2* G   A1368     229.141 140.646   6.997  1.00 45.28      A16S
ATOM  28930  C3* G   A1368     227.711 139.380   5.496  1.00 45.28      A16S
ATOM  28931  O3* G   A1368     227.213 140.677   5.194  1.00 45.28      A16S
ATOM  28932  P    C   A1369     227.718 141.429   3.864  1.00 30.88      A16S
ATOM  28933  O1P C   A1369     226.975 142.716   3.746  1.00 64.18      A16S
ATOM  28934  O2P C   A1369     227.688 140.463   2.735  1.00 64.18      A16S
ATOM  28935  O5* C   A1369     229.245 141.770   4.174  1.00 30.88      A16S
ATOM  28936  C5* C   A1369     229.599 142.710   5.209  1.00 30.88      A16S
ATOM  28937  C4* C   A1369     231.064 143.092   5.119  1.00 30.88      A16S
ATOM  28938  O4* C   A1369     231.924 141.984   5.483  1.00 30.88      A16S
ATOM  28939  C1* C   A1369     233.129 142.061   4.744  1.00 30.88      A16S
ATOM  28940  N1   C   A1369     233.293 140.827   3.951  1.00 64.18      A16S
ATOM  28941  C6   C   A1369     232.330 139.861   3.954  1.00 64.18      A16S
ATOM  28942  C2   C   A1369     234.452 140.663   3.174  1.00 64.18      A16S
ATOM  28943  O2   C   A1369     235.329 141.544   3.193  1.00 64.18      A16S
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ATOM  28944  N3  C  A1369     234.581 139.553   2.420  1.00 64.18      A16S
ATOM  28945  C4  C  A1369     233.619 138.632   2.419  1.00 64.18      A16S
ATOM  28946  N4  C  A1369     233.772 137.569   1.637  1.00 64.18      A16S
ATOM  28947  C5  C  A1369     232.452 138.762   3.211  1.00 64.18      A16S
ATOM  28948  C2* C  A1369     233.055 143.311   3.862  1.00 30.88      A16S
ATOM  28949  O2* C  A1369     233.732 144.331   4.549  1.00 30.88      A16S
ATOM  28950  C3* C  A1369     231.559 143.559   3.768  1.00 30.88      A16S
ATOM  28951  O3* C  A1369     231.305 144.934   3.655  1.00 30.88      A16S
ATOM  28952  P   G  A1370     230.758 145.530   2.279  1.00 56.77      A16S
ATOM  28953  O1P G  A1370     230.309 146.923   2.560  1.00 74.48      A16S
ATOM  28954  O2P G  A1370     229.798 144.555   1.686  1.00 74.48      A16S
ATOM  28955  O5* G  A1370     232.059 145.601   1.362  1.00 56.77      A16S
ATOM  28956  C5* G  A1370     232.937 146.730   1.460  1.00 56.77      A16S
ATOM  28957  C4* G  A1370     234.374 146.336   1.197  1.00 56.77      A16S
ATOM  28958  O4* G  A1370     234.655 145.033   1.772  1.00 56.77      A16S
ATOM  28959  C1* G  A1370     235.696 144.413   1.044  1.00 56.77      A16S
ATOM  28960  N9  G  A1370     235.207 143.136   0.539  1.00 74.48      A16S
ATOM  28961  C4  G  A1370     235.969 142.072   0.111  1.00 74.48      A16S
ATOM  28962  N3  G  A1370     237.314 141.991   0.146  1.00 74.48      A16S
ATOM  28963  C2  G  A1370     237.753 140.864  -0.380  1.00 74.48      A16S
ATOM  28964  N2  G  A1370     239.068 140.613  -0.420  1.00 74.48      A16S
ATOM  28965  N1  G  A1370     236.937 139.898  -0.904  1.00 74.48      A16S
ATOM  28966  C6  G  A1370     235.552 139.965  -0.957  1.00 74.48      A16S
ATOM  28967  O6  G  A1370     234.907 139.047  -1.476  1.00 74.48      A16S
ATOM  28968  C5  G  A1370     235.069 141.156  -0.383  1.00 74.48      A16S
ATOM  28969  N7  G  A1370     233.769 141.609  -0.222  1.00 74.48      A16S
ATOM  28970  C8  G  A1370     233.899 142.779   0.340  1.00 74.48      A16S
ATOM  28971  C2* G  A1370     236.087 145.361  -0.096  1.00 56.77      A16S
ATOM  28972  O2* G  A1370     237.178 146.152   0.313  1.00 56.77      A16S
ATOM  28973  C3* G  A1370     234.842 146.222  -0.242  1.00 56.77      A16S
ATOM  28974  O3* G  A1370     235.187 147.504  -0.751  1.00 56.77      A16S
ATOM  28975  P   G  A1371     235.421 147.704  -2.327  1.00 49.15      A16S
ATOM  28976  O1P G  A1371     235.720 149.133  -2.591  1.00 74.18      A16S
ATOM  28977  O2P G  A1371     234.317 147.052  -3.060  1.00 74.18      A16S
ATOM  28978  O5* G  A1371     236.762 146.894  -2.593  1.00 49.15      A16S
ATOM  28979  C5* G  A1371     238.030 147.431  -2.172  1.00 49.15      A16S
ATOM  28980  C4* G  A1371     239.169 146.616  -2.742  1.00 49.15      A16S
ATOM  28981  O4* G  A1371     239.182 145.283  -2.164  1.00 49.15      A16S
ATOM  28982  C1* G  A1371     239.630 144.355  -3.135  1.00 49.15      A16S
ATOM  28983  N9  G  A1371     238.603 143.329  -3.295  1.00 74.18      A16S
ATOM  28984  C4  G  A1371     238.664 142.242  -4.128  1.00 74.18      A16S
ATOM  28985  N3  G  A1371     239.688 141.929  -4.947  1.00 74.18      A16S
ATOM  28986  C2  G  A1371     239.446 140.838  -5.642  1.00 74.18      A16S
ATOM  28987  N2  G  A1371     240.355 140.391  -6.513  1.00 74.18      A16S
ATOM  28988  N1  G  A1371     238.293 140.105  -5.537  1.00 74.18      A16S
ATOM  28989  C6  G  A1371     237.225 140.408  -4.700  1.00 74.18      A16S
ATOM  28990  O6  G  A1371     236.222 139.677  -4.686  1.00 74.18      A16S
ATOM  28991  C5  G  A1371     237.472 141.579  -3.951  1.00 74.18      A16S
ATOM  28992  N7  G  A1371     236.682 142.229  -3.017  1.00 74.18      A16S
ATOM  28993  C8  G  A1371     237.393 143.259  -2.656  1.00 74.18      A16S
ATOM  28994  C2* G  A1371     239.946 145.130  -4.424  1.00 49.15      A16S
ATOM  28995  O2* G  A1371     241.335 145.388  -4.499  1.00 49.15      A16S
ATOM  28996  C3* G  A1371     239.132 146.401  -4.241  1.00 49.15      A16S
ATOM  28997  O3* G  A1371     239.752 147.492  -4.872  1.00 49.15      A16S
ATOM  28998  P   U  A1372     239.101 148.114  -6.187  1.00 40.02      A16S
ATOM  28999  O1P U  A1372     239.858 149.348  -6.504  1.00 81.93      A16S
ATOM  29000  O2P U  A1372     237.636 148.191  -5.999  1.00 81.93      A16S
ATOM  29001  O5* U  A1372     239.435 147.030  -7.300  1.00 40.02      A16S
ATOM  29002  C5* U  A1372     240.808 146.731  -7.619  1.00 40.02      A16S
ATOM  29003  C4* U  A1372     240.914 145.571  -8.591  1.00 40.02      A16S
ATOM  29004  O4* U  A1372     240.703 144.297  -7.927  1.00 40.02      A16S
ATOM  29005  C1* U  A1372     240.121 143.386  -8.844  1.00 40.02      A16S
ATOM  29006  N1  U  A1372     238.810 142.960  -8.333  1.00 81.93      A16S
ATOM  29007  C6  U  A1372     238.213 143.572  -7.257  1.00 81.93      A16S
ATOM  29008  C2  U  A1372     238.183 141.937  -9.000  1.00 81.93      A16S
ATOM  29009  O2  U  A1372     238.698 141.347  -9.938  1.00 81.93      A16S
ATOM  29010  N3  U  A1372     236.932 141.628  -8.534  1.00 81.93      A16S
ATOM  29011  C4  U  A1372     236.266 142.220  -7.486  1.00 81.93      A16S
ATOM  29012  O4  U  A1372     235.102 141.891  -7.243  1.00 81.93      A16S
ATOM  29013  C5  U  A1372     236.998 143.246  -6.824  1.00 81.93      A16S
ATOM  29014  C2* U  A1372     239.964 144.110 -10.185  1.00 40.02      A16S
ATOM  29015  O2* U  A1372     241.043 143.799 -11.031  1.00 40.02      A16S
ATOM  29016  C3* U  A1372     239.964 145.571  -9.770  1.00 40.02      A16S
ATOM  29017  O3* U  A1372     240.445 146.382 -10.818  1.00 40.02      A16S
ATOM  29018  P   G  A1373     239.409 146.996 -11.874  1.00 41.73      A16S
ATOM  29019  O1P G  A1373     240.138 147.472 -13.084  1.00 67.51      A16S
ATOM  29020  O2P G  A1373     238.520 147.933 -11.133  1.00 67.51      A16S
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ATOM  29021  O5* G   A1373     238.550 145.735 -12.328  1.00 41.73      A16S
ATOM  29022  C5* G   A1373     239.136 144.641 -13.076  1.00 41.73      A16S
ATOM  29023  C4* G   A1373     238.098 143.563 -13.324  1.00 41.73      A16S
ATOM  29024  O4* G   A1373     237.739 142.901 -12.077  1.00 41.73      A16S
ATOM  29025  C1* G   A1373     236.352 142.605 -12.074  1.00 41.73      A16S
ATOM  29026  N9  G   A1373     235.699 143.403 -11.032  1.00 67.51      A16S
ATOM  29027  C4  G   A1373     234.623 143.024 -10.253  1.00 67.51      A16S
ATOM  29028  N3  G   A1373     234.015 141.821 -10.271  1.00 67.51      A16S
ATOM  29029  C2  G   A1373     233.010 141.763  -9.421  1.00 67.51      A16S
ATOM  29030  N2  G   A1373     232.307 140.638  -9.305  1.00 67.51      A16S
ATOM  29031  N1  G   A1373     232.616 142.801  -8.621  1.00 67.51      A16S
ATOM  29032  C6  G   A1373     233.204 144.053  -8.588  1.00 67.51      A16S
ATOM  29033  O6  G   A1373     232.737 144.928  -7.842  1.00 67.51      A16S
ATOM  29034  C5  G   A1373     234.313 144.131  -9.491  1.00 67.51      A16S
ATOM  29035  N7  G   A1373     235.189 145.174  -9.759  1.00 67.51      A16S
ATOM  29036  C8  G   A1373     235.996 144.696 -10.668  1.00 67.51      A16S
ATOM  29037  C2* G   A1373     235.807 143.003 -13.444  1.00 41.73      A16S
ATOM  29038  O2* G   A1373     235.853 141.928 -14.349  1.00 41.73      A16S
ATOM  29039  C3* G   A1373     236.778 144.085 -13.853  1.00 41.73      A16S
ATOM  29040  O3* G   A1373     236.770 144.285 -15.239  1.00 41.73      A16S
ATOM  29041  P   A   A1374     235.496 144.983 -15.914  1.00 35.91      A16S
ATOM  29042  O1P A   A1374     235.877 145.439 -17.283  1.00 80.47      A16S
ATOM  29043  O2P A   A1374     234.920 145.961 -14.954  1.00 80.47      A16S
ATOM  29044  O5* A   A1374     234.449 143.791 -16.036  1.00 35.91      A16S
ATOM  29045  C5* A   A1374     233.788 143.504 -17.288  1.00 35.91      A16S
ATOM  29046  C4* A   A1374     234.365 142.248 -17.901  1.00 35.91      A16S
ATOM  29047  O4* A   A1374     234.507 141.225 -16.883  1.00 35.91      A16S
ATOM  29048  C1* A   A1374     234.202 139.963 -17.436  1.00 35.91      A16S
ATOM  29049  N9  A   A1374     233.037 139.428 -16.721  1.00 80.47      A16S
ATOM  29050  C4  A   A1374     232.511 138.162 -16.825  1.00 80.47      A16S
ATOM  29051  N3  A   A1374     232.947 137.158 -17.600  1.00 80.47      A16S
ATOM  29052  C2  A   A1374     232.185 136.084 -17.445  1.00 80.47      A16S
ATOM  29053  N1  A   A1374     231.119 135.908 -16.664  1.00 80.47      A16S
ATOM  29054  C6  A   A1374     230.706 136.932 -15.896  1.00 80.47      A16S
ATOM  29055  N6  A   A1374     229.641 136.748 -15.112  1.00 80.47      A16S
ATOM  29056  C5  A   A1374     231.428 138.133 -15.971  1.00 80.47      A16S
ATOM  29057  N7  A   A1374     231.271 139.355 -15.339  1.00 80.47      A16S
ATOM  29058  C8  A   A1374     232.246 140.085 -15.815  1.00 80.47      A16S
ATOM  29059  C2* A   A1374     233.965 140.160 -18.937  1.00 35.91      A16S
ATOM  29060  O2* A   A1374     235.180 139.989 -19.626  1.00 35.91      A16S
ATOM  29061  C3* A   A1374     233.537 141.613 -19.002  1.00 35.91      A16S
ATOM  29062  O3* A   A1374     233.866 142.161 -20.262  1.00 35.91      A16S
ATOM  29063  P   A   A1375     232.823 142.042 -21.472  1.00 44.85      A16S
ATOM  29064  O1P A   A1375     233.536 142.404 -22.726  1.00 55.26      A16S
ATOM  29065  O2P A   A1375     231.596 142.778 -21.095  1.00 55.26      A16S
ATOM  29066  O5* A   A1375     232.464 140.494 -21.516  1.00 44.85      A16S
ATOM  29067  C5* A   A1375     233.429 139.541 -21.969  1.00 44.85      A16S
ATOM  29068  C4* A   A1375     232.787 138.194 -22.161  1.00 44.85      A16S
ATOM  29069  O4* A   A1375     232.420 137.614 -20.885  1.00 44.85      A16S
ATOM  29070  C1* A   A1375     231.207 136.889 -21.027  1.00 44.85      A16S
ATOM  29071  N9  A   A1375     230.216 137.444 -20.097  1.00 55.26      A16S
ATOM  29072  C4  A   A1375     229.017 136.868 -19.756  1.00 55.26      A16S
ATOM  29073  N3  A   A1375     228.525 135.697 -20.187  1.00 55.26      A16S
ATOM  29074  C2  A   A1375     227.330 135.465 -19.652  1.00 55.26      A16S
ATOM  29075  N1  A   A1375     226.620 136.215 -18.805  1.00 55.26      A16S
ATOM  29076  C6  A   A1375     227.138 137.387 -18.401  1.00 55.26      A16S
ATOM  29077  N6  A   A1375     226.416 138.140 -17.576  1.00 55.26      A16S
ATOM  29078  C5  A   A1375     228.410 137.745 -18.886  1.00 55.26      A16S
ATOM  29079  N7  A   A1375     229.214 138.850 -18.668  1.00 55.26      A16S
ATOM  29080  C8  A   A1375     230.270 138.623 -19.404  1.00 55.26      A16S
ATOM  29081  C2* A   A1375     230.782 136.975 -22.500  1.00 44.85      A16S
ATOM  29082  O2* A   A1375     231.223 135.842 -23.214  1.00 44.85      A16S
ATOM  29083  C3* A   A1375     231.506 138.227 -22.961  1.00 44.85      A16S
ATOM  29084  O3* A   A1375     231.798 138.179 -24.327  1.00 44.85      A16S
ATOM  29085  P   U   A1376     230.856 138.956 -25.354  1.00 43.80      A16S
ATOM  29086  O1P U   A1376     231.419 138.686 -26.714  1.00 67.54      A16S
ATOM  29087  O2P U   A1376     230.699 140.360 -24.890  1.00 67.54      A16S
ATOM  29088  O5* U   A1376     229.463 138.197 -25.211  1.00 43.80      A16S
ATOM  29089  C5* U   A1376     229.347 136.816 -25.610  1.00 43.80      A16S
ATOM  29090  C4* U   A1376     227.999 136.253 -25.230  1.00 43.80      A16S
ATOM  29091  O4* U   A1376     227.927 136.080 -23.794  1.00 43.80      A16S
ATOM  29092  C1* U   A1376     226.603 136.322 -23.363  1.00 43.80      A16S
ATOM  29093  N1  U   A1376     226.598 137.463 -22.432  1.00 67.54      A16S
ATOM  29094  C6  U   A1376     227.609 138.385 -22.411  1.00 67.54      A16S
ATOM  29095  C2  U   A1376     225.513 137.594 -21.592  1.00 67.54      A16S
ATOM  29096  O2  U   A1376     224.615 136.784 -21.541  1.00 67.54      A16S
ATOM  29097  N3  U   A1376     225.515 138.712 -20.812  1.00 67.54      A16S
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ATOM  29098  C4   U   A1376     226.468 139.688 -20.769  1.00 67.54      A16S
ATOM  29099  O4   U   A1376     226.266 140.695 -20.087  1.00 67.54      A16S
ATOM  29100  C5   U   A1376     227.582 139.464 -21.630  1.00 67.54      A16S
ATOM  29101  C2*  U   A1376     225.746 136.613 -24.603  1.00 43.80      A16S
ATOM  29102  O2*  U   A1376     225.076 135.443 -25.031  1.00 43.80      A16S
ATOM  29103  C3*  U   A1376     226.788 137.096 -25.597  1.00 43.80      A16S
ATOM  29104  O3*  U   A1376     226.368 136.886 -26.942  1.00 43.80      A16S
ATOM  29105  P    A   A1377     225.346 137.923 -27.633  1.00 39.04      A16S
ATOM  29106  O1P  A   A1377     225.228 137.587 -29.080  1.00 62.82      A16S
ATOM  29107  O2P  A   A1377     225.740 139.297 -27.226  1.00 62.82      A16S
ATOM  29108  O5*  A   A1377     223.946 137.607 -26.943  1.00 39.04      A16S
ATOM  29109  C5*  A   A1377     223.235 136.401 -27.258  1.00 39.04      A16S
ATOM  29110  C4*  A   A1377     221.982 136.273 -26.417  1.00 39.04      A16S
ATOM  29111  O4*  A   A1377     222.324 136.130 -25.010  1.00 39.04      A16S
ATOM  29112  C1*  A   A1377     221.261 136.635 -24.218  1.00 39.04      A16S
ATOM  29113  N9   A   A1377     221.755 137.744 -23.410  1.00 62.82      A16S
ATOM  29114  C4   A   A1377     221.376 138.050 -22.128  1.00 62.82      A16S
ATOM  29115  N3   A   A1377     220.525 137.372 -21.345  1.00 62.82      A16S
ATOM  29116  C2   A   A1377     220.381 137.985 -20.176  1.00 62.82      A16S
ATOM  29117  N1   A   A1377     220.951 139.108 -19.734  1.00 62.82      A16S
ATOM  29118  C6   A   A1377     221.800 139.761 -20.552  1.00 62.82      A16S
ATOM  29119  N6   A   A1377     222.367 140.888 -20.124  1.00 62.82      A16S
ATOM  29120  C5   A   A1377     222.036 139.216 -21.812  1.00 62.82      A16S
ATOM  29121  N7   A   A1377     222.840 139.624 -22.860  1.00 62.82      A16S
ATOM  29122  C8   A   A1377     222.644 138.715 -23.778  1.00 62.82      A16S
ATOM  29123  C2*  A   A1377     220.185 137.152 -25.169  1.00 39.04      A16S
ATOM  29124  O2*  A   A1377     219.209 136.156 -25.372  1.00 39.04      A16S
ATOM  29125  C3*  A   A1377     220.990 137.420 -26.427  1.00 39.04      A16S
ATOM  29126  O3*  A   A1377     220.134 137.425 -27.536  1.00 39.04      A16S
ATOM  29127  P    C   A1378     219.087 138.623 -27.692  1.00 45.42      A16S
ATOM  29128  O1P  C   A1378     219.887 139.872 -27.657  1.00 63.62      A16S
ATOM  29129  O2P  C   A1378     217.988 138.427 -26.711  1.00 63.62      A16S
ATOM  29130  O5*  C   A1378     218.484 138.452 -29.151  1.00 45.42      A16S
ATOM  29131  C5*  C   A1378     219.193 138.933 -30.299  1.00 45.42      A16S
ATOM  29132  C4*  C   A1378     219.101 137.927 -31.408  1.00 45.42      A16S
ATOM  29133  O4*  C   A1378     219.888 136.762 -31.076  1.00 45.42      A16S
ATOM  29134  C1*  C   A1378     219.230 135.600 -31.545  1.00 45.42      A16S
ATOM  29135  N1   C   A1378     219.092 134.647 -30.428  1.00 63.62      A16S
ATOM  29136  C6   C   A1378     219.399 135.019 -29.151  1.00 63.62      A16S
ATOM  29137  C2   C   A1378     218.669 133.336 -30.696  1.00 63.62      A16S
ATOM  29138  O2   C   A1378     218.345 133.023 -31.857  1.00 63.62      A16S
ATOM  29139  N3   C   A1378     218.618 132.442 -29.684  1.00 63.62      A16S
ATOM  29140  C4   C   A1378     218.950 132.812 -28.449  1.00 63.62      A16S
ATOM  29141  N4   C   A1378     218.908 131.889 -27.487  1.00 63.62      A16S
ATOM  29142  C5   C   A1378     219.345 134.142 -28.143  1.00 63.62      A16S
ATOM  29143  C2*  C   A1378     217.926 136.029 -32.227  1.00 45.42      A16S
ATOM  29144  O2*  C   A1378     218.128 136.104 -33.623  1.00 45.42      A16S
ATOM  29145  C3*  C   A1378     217.697 137.404 -31.626  1.00 45.42      A16S
ATOM  29146  O3*  C   A1378     217.011 138.258 -32.511  1.00 45.42      A16S
ATOM  29147  P    G   A1379     215.664 138.970 -32.029  1.00 57.84      A16S
ATOM  29148  O1P  G   A1379     215.278 139.916 -33.108  1.00 42.70      A16S
ATOM  29149  O2P  G   A1379     215.877 139.467 -30.637  1.00 42.70      A16S
ATOM  29150  O5*  G   A1379     214.602 137.784 -31.996  1.00 57.84      A16S
ATOM  29151  C5*  G   A1379     214.199 137.165 -30.760  1.00 57.84      A16S
ATOM  29152  C4*  G   A1379     214.306 135.665 -30.876  1.00 57.84      A16S
ATOM  29153  O4*  G   A1379     215.573 135.229 -30.323  1.00 57.84      A16S
ATOM  29154  C1*  G   A1379     215.407 133.988 -29.656  1.00 57.84      A16S
ATOM  29155  N9   G   A1379     215.813 134.157 -28.263  1.00 42.70      A16S
ATOM  29156  C4   G   A1379     215.916 133.178 -27.305  1.00 42.70      A16S
ATOM  29157  N3   G   A1379     215.630 131.874 -27.468  1.00 42.70      A16S
ATOM  29158  C2   G   A1379     215.866 131.179 -26.368  1.00 42.70      A16S
ATOM  29159  N2   G   A1379     215.645 129.872 -26.354  1.00 42.70      A16S
ATOM  29160  N1   G   A1379     216.337 131.719 -25.204  1.00 42.70      A16S
ATOM  29161  C6   G   A1379     216.622 133.065 -25.012  1.00 42.70      A16S
ATOM  29162  O6   G   A1379     217.024 133.461 -23.914  1.00 42.70      A16S
ATOM  29163  C5   G   A1379     216.383 133.818 -26.179  1.00 42.70      A16S
ATOM  29164  N7   G   A1379     216.547 135.170 -26.414  1.00 42.70      A16S
ATOM  29165  C8   G   A1379     216.193 135.327 -27.658  1.00 42.70      A16S
ATOM  29166  C2*  G   A1379     213.957 133.549 -29.844  1.00 57.84      A16S
ATOM  29167  O2*  G   A1379     213.919 132.655 -30.945  1.00 57.84      A16S
ATOM  29168  C3*  G   A1379     213.262 134.884 -30.103  1.00 57.84      A16S
ATOM  29169  O3*  G   A1379     212.091 134.759 -30.901  1.00 57.84      A16S
ATOM  29170  P    U   A1380     210.637 134.811 -30.207  1.00 65.62      A16S
ATOM  29171  O1P  U   A1380     209.623 134.867 -31.301  1.00 53.94      A16S
ATOM  29172  O2P  U   A1380     210.641 135.857 -29.144  1.00 53.94      A16S
ATOM  29173  O5*  U   A1380     210.498 133.383 -29.528  1.00 65.62      A16S
ATOM  29174  C5*  U   A1380     210.718 132.213 -30.310  1.00 65.62      A16S
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ATOM  29175  C4*  U    A1380      210.573 131.000 -29.457  1.00 65.62      A16S
ATOM  29176  O4*  U    A1380      211.635 130.981 -28.472  1.00 65.62      A16S
ATOM  29177  C1*  U    A1380      211.104 130.812 -27.179  1.00 65.62      A16S
ATOM  29178  N1   U    A1380      211.939 131.596 -26.261  1.00 53.94      A16S
ATOM  29179  C6   U    A1380      212.183 132.923 -26.489  1.00 53.94      A16S
ATOM  29180  C2   U    A1380      212.471 130.957 -25.152  1.00 53.94      A16S
ATOM  29181  O2   U    A1380      212.320 129.773 -24.924  1.00 53.94      A16S
ATOM  29182  N3   U    A1380      213.201 131.756 -24.319  1.00 53.94      A16S
ATOM  29183  C4   U    A1380      213.464 133.086 -24.480  1.00 53.94      A16S
ATOM  29184  O4   U    A1380      214.123 133.672 -23.629  1.00 53.94      A16S
ATOM  29185  C5   U    A1380      212.910 133.670 -25.661  1.00 53.94      A16S
ATOM  29186  C2*  U    A1380      209.637 131.240 -27.220  1.00 65.62      A16S
ATOM  29187  O2*  U    A1380      208.932 130.446 -26.292  1.00 65.62      A16S
ATOM  29188  C3*  U    A1380      209.286 130.951 -28.675  1.00 65.62      A16S
ATOM  29189  O3*  U    A1380      208.069 130.491 -29.270  1.00 65.62      A16S
ATOM  29190  P    U    A1381      207.650 128.941 -29.190  1.00 63.60      A16S
ATOM  29191  O1P  U    A1381      206.245 128.900 -29.684  1.00 84.56      A16S
ATOM  29192  O2P  U    A1381      207.976 128.381 -27.853  1.00 84.56      A16S
ATOM  29193  O5*  U    A1381      208.585 128.208 -30.252  1.00 63.60      A16S
ATOM  29194  C5*  U    A1381      208.030 127.234 -31.159  1.00 63.60      A16S
ATOM  29195  C4*  U    A1381      208.849 125.960 -31.163  1.00 63.60      A16S
ATOM  29196  O4*  U    A1381      210.185 126.255 -31.639  1.00 63.60      A16S
ATOM  29197  C1*  U    A1381      211.106 125.360 -31.045  1.00 63.60      A16S
ATOM  29198  N1   U    A1381      212.161 126.122 -30.365  1.00 84.56      A16S
ATOM  29199  C6   U    A1381      211.955 127.393 -29.899  1.00 84.56      A16S
ATOM  29200  C2   U    A1381      213.375 125.500 -30.208  1.00 84.56      A16S
ATOM  29201  O2   U    A1381      213.591 124.362 -30.597  1.00 84.56      A16S
ATOM  29202  N3   U    A1381      214.330 126.249 -29.574  1.00 84.56      A16S
ATOM  29203  C4   U    A1381      214.193 127.526 -29.090  1.00 84.56      A16S
ATOM  29204  O4   U    A1381      215.167 128.090 -28.590  1.00 84.56      A16S
ATOM  29205  C5   U    A1381      212.902 128.095 -29.280  1.00 84.56      A16S
ATOM  29206  C2*  U    A1381      210.341 124.443 -30.093  1.00 63.60      A16S
ATOM  29207  O2*  U    A1381      210.122 123.203 -30.724  1.00 63.60      A16S
ATOM  29208  C3*  U    A1381      209.066 125.241 -29.838  1.00 63.60      A16S
ATOM  29209  O3*  U    A1381      207.990 124.379 -29.476  1.00 63.60      A16S
ATOM  29210  P    C    A1382      207.821 123.922 -27.937  1.00 52.89      A16S
ATOM  29211  O1P  C    A1382      206.693 122.953 -27.835  1.00 77.00      A16S
ATOM  29212  O2P  C    A1382      207.812 125.153 -27.100  1.00 77.00      A16S
ATOM  29213  O5*  C    A1382      209.142 123.099 -27.615  1.00 52.89      A16S
ATOM  29214  C5*  C    A1382      209.462 121.926 -28.365  1.00 52.89      A16S
ATOM  29215  C4*  C    A1382      210.823 121.426 -27.985  1.00 52.89      A16S
ATOM  29216  O4*  C    A1382      211.824 122.424 -28.285  1.00 52.89      A16S
ATOM  29217  C1*  C    A1382      212.852 122.366 -27.307  1.00 52.89      A16S
ATOM  29218  N1   C    A1382      213.062 123.712 -26.734  1.00 77.00      A16S
ATOM  29219  C6   C    A1382      212.203 124.740 -27.006  1.00 77.00      A16S
ATOM  29220  C2   C    A1382      214.182 123.925 -25.914  1.00 77.00      A16S
ATOM  29221  O2   C    A1382      214.934 122.964 -25.645  1.00 77.00      A16S
ATOM  29222  N3   C    A1382      214.415 125.165 -25.427  1.00 77.00      A16S
ATOM  29223  C4   C    A1382      213.575 126.162 -25.709  1.00 77.00      A16S
ATOM  29224  N4   C    A1382      213.847 127.367 -25.200  1.00 77.00      A16S
ATOM  29225  C5   C    A1382      212.419 125.967 -26.522  1.00 77.00      A16S
ATOM  29226  C2*  C    A1382      212.481 121.286 -26.289  1.00 52.89      A16S
ATOM  29227  O2*  C    A1382      213.133 120.075 -26.603  1.00 52.89      A16S
ATOM  29228  C3*  C    A1382      210.986 121.171 -26.505  1.00 52.89      A16S
ATOM  29229  O3*  C    A1382      210.511 119.896 -26.193  1.00 52.89      A16S
ATOM  29230  P    C    A1383      209.435 119.739 -25.026  1.00 48.71      A16S
ATOM  29231  O1P  C    A1383      208.730 118.459 -25.293  1.00 48.48      A16S
ATOM  29232  O2P  C    A1383      208.654 121.013 -24.942  1.00 48.48      A16S
ATOM  29233  O5*  C    A1383      210.328 119.572 -23.717  1.00 48.71      A16S
ATOM  29234  C5*  C    A1383      211.167 118.429 -23.570  1.00 48.71      A16S
ATOM  29235  C4*  C    A1383      212.140 118.640 -22.454  1.00 48.71      A16S
ATOM  29236  O4*  C    A1383      213.075 119.686 -22.802  1.00 48.71      A16S
ATOM  29237  C1*  C    A1383      213.470 120.380 -21.631  1.00 48.71      A16S
ATOM  29238  N1   C    A1383      213.156 121.814 -21.785  1.00 48.48      A16S
ATOM  29239  C6   C    A1383      212.267 122.252 -22.729  1.00 48.48      A16S
ATOM  29240  C2   C    A1383      213.783 122.724 -20.939  1.00 48.48      A16S
ATOM  29241  O2   C    A1383      214.565 122.298 -20.082  1.00 48.48      A16S
ATOM  29242  N3   C    A1383      213.514 124.044 -21.068  1.00 48.48      A16S
ATOM  29243  C4   C    A1383      212.648 124.462 -21.989  1.00 48.48      A16S
ATOM  29244  N4   C    A1383      212.414 125.769 -22.079  1.00 48.48      A16S
ATOM  29245  C5   C    A1383      211.984 123.557 -22.861  1.00 48.48      A16S
ATOM  29246  C2*  C    A1383      212.725 119.754 -20.455  1.00 48.71      A16S
ATOM  29247  O2*  C    A1383      213.545 118.801 -19.815  1.00 48.71      A16S
ATOM  29248  C3*  C    A1383      211.540 119.109 -21.153  1.00 48.71      A16S
ATOM  29249  O3*  C    A1383      211.005 118.054 -20.395  1.00 48.71      A16S
ATOM  29250  P    C    A1384      209.830 118.367 -19.359  1.00 50.93      A16S
ATOM  29251  O1P  C    A1384      209.533 117.108 -18.624  1.00 37.93      A16S
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ATOM  29252  O2P C   A1384     208.750 119.072 -20.091  1.00 37.93      A16S
ATOM  29253  O5* C   A1384     210.492 119.375 -18.325  1.00 50.93      A16S
ATOM  29254  C5* C   A1384     211.343 118.875 -17.295  1.00 50.93      A16S
ATOM  29255  C4* C   A1384     211.513 119.897 -16.211  1.00 50.93      A16S
ATOM  29256  O4* C   A1384     212.298 120.999 -16.718  1.00 50.93      A16S
ATOM  29257  C1* C   A1384     211.887 122.204 -16.098  1.00 50.93      A16S
ATOM  29258  N1   C   A1384     211.331 123.099 -17.127  1.00 37.93      A16S
ATOM  29259  C6   C   A1384     210.936 122.617 -18.341  1.00 37.93      A16S
ATOM  29260  C2   C   A1384     211.201 124.458 -16.833  1.00 37.93      A16S
ATOM  29261  O2   C   A1384     211.570 124.869 -15.724  1.00 37.93      A16S
ATOM  29262  N3   C   A1384     210.680 125.284 -17.756  1.00 37.93      A16S
ATOM  29263  C4   C   A1384     210.298 124.801 -18.934  1.00 37.93      A16S
ATOM  29264  N4   C   A1384     209.792 125.650 -19.819  1.00 37.93      A16S
ATOM  29265  C5   C   A1384     210.419 123.425 -19.262  1.00 37.93      A16S
ATOM  29266  C2* C   A1384     210.824 121.836 -15.074  1.00 50.93      A16S
ATOM  29267  O2* C   A1384     211.470 121.594 -13.842  1.00 50.93      A16S
ATOM  29268  C3* C   A1384     210.260 120.568 -15.689  1.00 50.93      A16S
ATOM  29269  O3* C   A1384     209.534 119.785 -14.765  1.00 50.93      A16S
ATOM  29270  P    G   A1385     207.935 119.982 -14.652  1.00 63.34      A16S
ATOM  29271  O1P G   A1385     207.468 118.933 -13.695  1.00 31.63      A16S
ATOM  29272  O2P G   A1385     207.333 120.073 -16.014  1.00 31.63      A16S
ATOM  29273  O5* G   A1385     207.772 121.402 -13.952  1.00 63.34      A16S
ATOM  29274  C5* G   A1385     208.173 121.564 -12.589  1.00 63.34      A16S
ATOM  29275  C4* G   A1385     207.947 122.973 -12.135  1.00 63.34      A16S
ATOM  29276  O4* G   A1385     208.840 123.870 -12.834  1.00 63.34      A16S
ATOM  29277  C1* G   A1385     208.215 125.126 -13.004  1.00 63.34      A16S
ATOM  29278  N9   G   A1385     208.026 125.356 -14.430  1.00 31.63      A16S
ATOM  29279  C4   G   A1385     207.880 126.575 -15.038  1.00 31.63      A16S
ATOM  29280  N3   G   A1385     207.905 127.769 -14.422  1.00 31.63      A16S
ATOM  29281  C2   G   A1385     207.717 128.766 -15.273  1.00 31.63      A16S
ATOM  29282  N2   G   A1385     207.734 130.032 -14.834  1.00 31.63      A16S
ATOM  29283  N1   G   A1385     207.504 128.599 -16.615  1.00 31.63      A16S
ATOM  29284  C6   G   A1385     207.466 127.377 -17.264  1.00 31.63      A16S
ATOM  29285  O6   G   A1385     207.248 127.339 -18.468  1.00 31.63      A16S
ATOM  29286  C5   G   A1385     207.684 126.301 -16.371  1.00 31.63      A16S
ATOM  29287  N7   G   A1385     207.718 124.934 -16.603  1.00 31.63      A16S
ATOM  29288  C8   G   A1385     207.926 124.413 -15.423  1.00 31.63      A16S
ATOM  29289  C2* G   A1385     206.855 125.041 -12.323  1.00 63.34      A16S
ATOM  29290  O2* G   A1385     206.962 125.486 -10.983  1.00 63.34      A16S
ATOM  29291  C3* G   A1385     206.582 123.552 -12.414  1.00 63.34      A16S
ATOM  29292  O3* G   A1385     205.584 123.114 -11.522  1.00 63.34      A16S
ATOM  29293  P    G   A1386     204.065 123.060 -12.033  1.00 51.41      A16S
ATOM  29294  O1P G   A1386     203.283 122.469 -10.915  1.00 49.56      A16S
ATOM  29295  O2P G   A1386     203.994 122.444 -13.398  1.00 49.56      A16S
ATOM  29296  O5* G   A1386     203.696 124.598 -12.201  1.00 51.41      A16S
ATOM  29297  C5* G   A1386     203.836 125.485 -11.093  1.00 51.41      A16S
ATOM  29298  C4* G   A1386     203.702 126.908 -11.537  1.00 51.41      A16S
ATOM  29299  O4* G   A1386     204.714 127.195 -12.531  1.00 51.41      A16S
ATOM  29300  C1* G   A1386     204.270 128.260 -13.351  1.00 51.41      A16S
ATOM  29301  N9   G   A1386     204.345 127.873 -14.756  1.00 49.56      A16S
ATOM  29302  C4   G   A1386     204.198 128.724 -15.826  1.00 49.56      A16S
ATOM  29303  N3   G   A1386     203.980 130.047 -15.755  1.00 49.56      A16S
ATOM  29304  C2   G   A1386     203.873 130.596 -16.943  1.00 49.56      A16S
ATOM  29305  N2   G   A1386     203.642 131.901 -17.042  1.00 49.56      A16S
ATOM  29306  N1   G   A1386     203.979 129.908 -18.117  1.00 49.56      A16S
ATOM  29307  C6   G   A1386     204.202 128.540 -18.221  1.00 49.56      A16S
ATOM  29308  O6   G   A1386     204.278 128.006 -19.343  1.00 49.56      A16S
ATOM  29309  C5   G   A1386     204.314 127.934 -16.941  1.00 49.56      A16S
ATOM  29310  N7   G   A1386     204.533 126.610 -16.586  1.00 49.56      A16S
ATOM  29311  C8   G   A1386     204.548 126.623 -15.279  1.00 49.56      A16S
ATOM  29312  C2* G   A1386     202.827 128.572 -12.961  1.00 51.41      A16S
ATOM  29313  O2* G   A1386     202.768 129.711 -12.121  1.00 51.41      A16S
ATOM  29314  C3* G   A1386     202.420 127.297 -12.245  1.00 51.41      A16S
ATOM  29315  O3* G   A1386     201.320 127.550 -11.398  1.00 51.41      A16S
ATOM  29316  P    G   A1387     199.861 127.719 -12.048  1.00 45.52      A16S
ATOM  29317  O1P G   A1387     198.898 127.637 -10.918  1.00 45.91      A16S
ATOM  29318  O2P G   A1387     199.731 126.781 -13.196  1.00 45.91      A16S
ATOM  29319  O5* G   A1387     199.861 129.195 -12.649  1.00 45.52      A16S
ATOM  29320  C5* G   A1387     199.945 130.330 -11.785  1.00 45.52      A16S
ATOM  29321  C4* G   A1387     199.647 131.589 -12.549  1.00 45.52      A16S
ATOM  29322  O4* G   A1387     200.712 131.827 -13.502  1.00 45.52      A16S
ATOM  29323  C1* G   A1387     200.175 132.347 -14.711  1.00 45.52      A16S
ATOM  29324  N9   G   A1387     200.386 131.341 -15.752  1.00 45.91      A16S
ATOM  29325  C4   G   A1387     200.294 131.521 -17.116  1.00 45.91      A16S
ATOM  29326  N3   G   A1387     200.035 132.680 -17.751  1.00 45.91      A16S
ATOM  29327  C2   G   A1387     199.977 132.520 -19.062  1.00 45.91      A16S
ATOM  29328  N2   G   A1387     199.737 133.563 -19.853  1.00 45.91      A16S
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ATOM  29329  N1  G  A1387     200.152 131.327 -19.698  1.00 45.91      A16S
ATOM  29330  C6  G  A1387     200.416 130.121 -19.071  1.00 45.91      A16S
ATOM  29331  O6  G  A1387     200.541 129.093 -19.746  1.00 45.91      A16S
ATOM  29332  C5  G  A1387     200.492 130.271 -17.662  1.00 45.91      A16S
ATOM  29333  N7  G  A1387     200.735 129.329 -16.669  1.00 45.91      A16S
ATOM  29334  C8  G  A1387     200.671 130.008 -15.558  1.00 45.91      A16S
ATOM  29335  C2* G  A1387     198.675 132.579 -14.478  1.00 45.52      A16S
ATOM  29336  O2* G  A1387     198.353 133.919 -14.110  1.00 45.52      A16S
ATOM  29337  C3* G  A1387     198.384 131.552 -13.391  1.00 45.52      A16S
ATOM  29338  O3* G  A1387     197.175 131.805 -12.681  1.00 45.52      A16S
ATOM  29339  P   C  A1388     195.805 131.171 -13.233  1.00 35.28      A16S
ATOM  29340  O1P C  A1388     194.716 131.444 -12.263  1.00 55.45      A16S
ATOM  29341  O2P C  A1388     196.122 129.754 -13.596  1.00 55.45      A16S
ATOM  29342  O5* C  A1388     195.518 132.022 -14.550  1.00 35.28      A16S
ATOM  29343  C5* C  A1388     195.262 133.420 -14.458  1.00 35.28      A16S
ATOM  29344  C4* C  A1388     194.747 133.948 -15.768  1.00 35.28      A16S
ATOM  29345  O4* C  A1388     195.845 134.049 -16.705  1.00 35.28      A16S
ATOM  29346  C1* C  A1388     195.384 133.729 -18.012  1.00 35.28      A16S
ATOM  29347  N1  C  A1388     196.013 132.458 -18.421  1.00 55.45      A16S
ATOM  29348  C6  C  A1388     196.366 131.519 -17.492  1.00 55.45      A16S
ATOM  29349  C2  C  A1388     196.226 132.220 -19.773  1.00 55.45      A16S
ATOM  29350  O2  C  A1388     195.894 133.089 -20.595  1.00 55.45      A16S
ATOM  29351  N3  C  A1388     196.785 131.047 -20.154  1.00 55.45      A16S
ATOM  29352  C4  C  A1388     197.117 130.135 -19.238  1.00 55.45      A16S
ATOM  29353  N4  C  A1388     197.659 128.991 -19.656  1.00 55.45      A16S
ATOM  29354  C5  C  A1388     196.910 130.355 -17.855  1.00 55.45      A16S
ATOM  29355  C2* C  A1388     193.871 133.540 -17.931  1.00 35.28      A16S
ATOM  29356  O2* C  A1388     193.184 134.747 -18.208  1.00 35.28      A16S
ATOM  29357  C3* C  A1388     193.716 133.093 -16.489  1.00 35.28      A16S
ATOM  29358  O3* C  A1388     192.390 133.239 -16.040  1.00 35.28      A16S
ATOM  29359  P   C  A1389     191.371 132.015 -16.225  1.00 43.51      A16S
ATOM  29360  O1P C  A1389     190.160 132.268 -15.404  1.00 48.56      A16S
ATOM  29361  O2P C  A1389     192.154 130.774 -16.010  1.00 48.56      A16S
ATOM  29362  O5* C  A1389     190.960 132.086 -17.758  1.00 43.51      A16S
ATOM  29363  C5* C  A1389     190.273 133.226 -18.268  1.00 43.51      A16S
ATOM  29364  C4* C  A1389     190.198 133.157 -19.766  1.00 43.51      A16S
ATOM  29365  O4* C  A1389     191.541 133.190 -20.309  1.00 43.51      A16S
ATOM  29366  C1* C  A1389     191.594 132.405 -21.493  1.00 43.51      A16S
ATOM  29367  N1  C  A1389     192.486 131.258 -21.275  1.00 48.56      A16S
ATOM  29368  C6  C  A1389     192.828 130.858 -20.015  1.00 48.56      A16S
ATOM  29369  C2  C  A1389     192.956 130.559 -22.389  1.00 48.56      A16S
ATOM  29370  O2  C  A1389     192.646 130.957 -23.530  1.00 48.56      A16S
ATOM  29371  N3  C  A1389     193.727 129.467 -22.202  1.00 48.56      A16S
ATOM  29372  C4  C  A1389     194.026 129.069 -20.966  1.00 48.56      A16S
ATOM  29373  N4  C  A1389     194.754 127.964 -20.826  1.00 48.56      A16S
ATOM  29374  C5  C  A1389     193.584 129.779 -19.818  1.00 48.56      A16S
ATOM  29375  C2* C  A1389     190.189 131.882 -21.755  1.00 43.51      A16S
ATOM  29376  O2* C  A1389     189.506 132.760 -22.631  1.00 43.51      A16S
ATOM  29377  C3* C  A1389     189.618 131.881 -20.351  1.00 43.51      A16S
ATOM  29378  O3* C  A1389     188.217 131.836 -20.367  1.00 43.51      A16S
ATOM  29379  P   U  A1390     187.495 130.424 -20.201  1.00 47.93      A16S
ATOM  29380  O1P U  A1390     186.045 130.666 -20.226  1.00 51.56      A16S
ATOM  29381  O2P U  A1390     188.113 129.711 -19.053  1.00 51.56      A16S
ATOM  29382  O5* U  A1390     187.867 129.635 -21.524  1.00 47.93      A16S
ATOM  29383  C5* U  A1390     187.506 130.146 -22.812  1.00 47.93      A16S
ATOM  29384  C4* U  A1390     188.124 129.295 -23.896  1.00 47.93      A16S
ATOM  29385  O4* U  A1390     189.560 129.244 -23.693  1.00 47.93      A16S
ATOM  29386  C1* U  A1390     190.054 127.980 -24.097  1.00 47.93      A16S
ATOM  29387  N1  U  A1390     190.721 127.321 -22.963  1.00 51.56      A16S
ATOM  29388  C6  U  A1390     190.655 127.802 -21.685  1.00 51.56      A16S
ATOM  29389  C2  U  A1390     191.432 126.187 -23.242  1.00 51.56      A16S
ATOM  29390  O2  U  A1390     191.518 125.741 -24.364  1.00 51.56      A16S
ATOM  29391  N3  U  A1390     192.048 125.594 -22.170  1.00 51.56      A16S
ATOM  29392  C4  U  A1390     192.033 126.020 -20.869  1.00 51.56      A16S
ATOM  29393  O4  U  A1390     192.635 125.371 -20.006  1.00 51.56      A16S
ATOM  29394  C5  U  A1390     191.275 127.210 -20.653  1.00 51.56      A16S
ATOM  29395  C2* U  A1390     188.877 127.181 -24.644  1.00 47.93      A16S
ATOM  29396  O2* U  A1390     188.790 127.403 -26.041  1.00 47.93      A16S
ATOM  29397  C3* U  A1390     187.717 127.831 -23.916  1.00 47.93      A16S
ATOM  29398  O3* U  A1390     186.509 127.619 -24.606  1.00 47.93      A16S
ATOM  29399  P   U  A1391     185.514 126.460 -24.113  1.00 38.28      A16S
ATOM  29400  O1P U  A1391     184.230 126.753 -24.801  1.00 54.33      A16S
ATOM  29401  O2P U  A1391     185.550 126.349 -22.622  1.00 54.33      A16S
ATOM  29402  O5* U  A1391     186.131 125.126 -24.726  1.00 38.28      A16S
ATOM  29403  C5* U  A1391     186.166 124.919 -26.145  1.00 38.28      A16S
ATOM  29404  C4* U  A1391     186.943 123.672 -26.469  1.00 38.28      A16S
ATOM  29405  O4* U  A1391     188.317 123.839 -26.053  1.00 38.28      A16S
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ATOM  29406  C1* U   A1391     188.824 122.612 -25.579  1.00 38.28      A16S
ATOM  29407  N1  U   A1391     189.291 122.816 -24.202  1.00 54.33      A16S
ATOM  29408  C6  U   A1391     188.679 123.711 -23.363  1.00 54.33      A16S
ATOM  29409  C2  U   A1391     190.378 122.074 -23.779  1.00 54.33      A16S
ATOM  29410  O2  U   A1391     190.960 121.273 -24.503  1.00 54.33      A16S
ATOM  29411  N3  U   A1391     190.767 122.308 -22.483  1.00 54.33      A16S
ATOM  29412  C4  U   A1391     190.202 123.194 -21.596  1.00 54.33      A16S
ATOM  29413  O4  U   A1391     190.708 123.343 -20.485  1.00 54.33      A16S
ATOM  29414  C5  U   A1391     189.087 123.920 -22.111  1.00 54.33      A16S
ATOM  29415  C2* U   A1391     187.723 121.558 -25.706  1.00 38.28      A16S
ATOM  29416  O2* U   A1391     187.949 120.768 -26.856  1.00 38.28      A16S
ATOM  29417  C3* U   A1391     186.466 122.422 -25.759  1.00 38.28      A16S
ATOM  29418  O3* U   A1391     185.393 121.828 -26.484  1.00 38.28      A16S
ATOM  29419  P   G   A1392     184.398 120.807 -25.744  1.00 39.39      A16S
ATOM  29420  O1P G   A1392     183.256 120.559 -26.668  1.00 39.94      A16S
ATOM  29421  O2P G   A1392     184.131 121.275 -24.362  1.00 39.94      A16S
ATOM  29422  O5* G   A1392     185.270 119.488 -25.614  1.00 39.39      A16S
ATOM  29423  C5* G   A1392     185.568 118.684 -26.763  1.00 39.39      A16S
ATOM  29424  C4* G   A1392     186.371 117.494 -26.340  1.00 39.39      A16S
ATOM  29425  O4* G   A1392     187.688 117.945 -25.970  1.00 39.39      A16S
ATOM  29426  C1* G   A1392     188.136 117.233 -24.831  1.00 39.39      A16S
ATOM  29427  N9  G   A1392     188.333 118.200 -23.760  1.00 39.94      A16S
ATOM  29428  C4  G   A1392     189.203 118.107 -22.711  1.00 39.94      A16S
ATOM  29429  N3  G   A1392     190.048 117.089 -22.469  1.00 39.94      A16S
ATOM  29430  C2  G   A1392     190.742 117.288 -21.363  1.00 39.94      A16S
ATOM  29431  N2  G   A1392     191.625 116.389 -20.956  1.00 39.94      A16S
ATOM  29432  N1  G   A1392     190.620 118.395 -20.568  1.00 39.94      A16S
ATOM  29433  C6  G   A1392     189.760 119.456 -20.811  1.00 39.94      A16S
ATOM  29434  O6  G   A1392     189.730 120.415 -20.045  1.00 39.94      A16S
ATOM  29435  C5  G   A1392     189.010 119.256 -21.976  1.00 39.94      A16S
ATOM  29436  N7  G   A1392     188.040 120.056 -22.554  1.00 39.94      A16S
ATOM  29437  C8  G   A1392     187.667 119.390 -23.608  1.00 39.94      A16S
ATOM  29438  C2* G   A1392     187.071 116.194 -24.488  1.00 39.39      A16S
ATOM  29439  O2* G   A1392     187.358 114.977 -25.129  1.00 39.39      A16S
ATOM  29440  C3* G   A1392     185.836 116.818 -25.095  1.00 39.39      A16S
ATOM  29441  O3* G   A1392     184.877 115.842 -25.404  1.00 39.39      A16S
ATOM  29442  P   U   A1393     183.892 115.321 -24.257  1.00 35.06      A16S
ATOM  29443  O1P U   A1393     183.041 114.297 -24.920  1.00 43.91      A16S
ATOM  29444  O2P U   A1393     183.254 116.497 -23.605  1.00 43.91      A16S
ATOM  29445  O5* U   A1393     184.860 114.621 -23.199  1.00 35.06      A16S
ATOM  29446  C5* U   A1393     185.498 113.385 -23.527  1.00 35.06      A16S
ATOM  29447  C4* U   A1393     186.191 112.799 -22.330  1.00 35.06      A16S
ATOM  29448  O4* U   A1393     187.373 113.561 -22.014  1.00 35.06      A16S
ATOM  29449  C1* U   A1393     187.582 113.565 -20.621  1.00 35.06      A16S
ATOM  29450  N1  U   A1393     187.562 114.961 -20.166  1.00 43.91      A16S
ATOM  29451  C6  U   A1393     187.099 115.953 -20.977  1.00 43.91      A16S
ATOM  29452  C2  U   A1393     188.016 115.240 -18.900  1.00 43.91      A16S
ATOM  29453  O2  U   A1393     188.444 114.394 -18.142  1.00 43.91      A16S
ATOM  29454  N3  U   A1393     187.951 116.555 -18.545  1.00 43.91      A16S
ATOM  29455  C4  U   A1393     187.489 117.591 -19.306  1.00 43.91      A16S
ATOM  29456  O4  U   A1393     187.444 118.721 -18.825  1.00 43.91      A16S
ATOM  29457  C5  U   A1393     187.048 117.220 -20.601  1.00 43.91      A16S
ATOM  29458  C2* U   A1393     186.495 112.693 -19.990  1.00 35.06      A16S
ATOM  29459  O2* U   A1393     187.034 111.399 -19.845  1.00 35.06      A16S
ATOM  29460  C3* U   A1393     185.394 112.746 -21.045  1.00 35.06      A16S
ATOM  29461  O3* U   A1393     184.556 111.592 -21.049  1.00 35.06      A16S
ATOM  29462  P   A   A1394     183.360 111.466 -19.988  1.00 29.59      A16S
ATOM  29463  O1P A   A1394     182.363 110.500 -20.505  1.00 51.02      A16S
ATOM  29464  O2P A   A1394     182.927 112.829 -19.602  1.00 51.02      A16S
ATOM  29465  O5* A   A1394     184.060 110.785 -18.744  1.00 29.59      A16S
ATOM  29466  C5* A   A1394     183.291 110.063 -17.791  1.00 29.59      A16S
ATOM  29467  C4* A   A1394     183.919 108.727 -17.548  1.00 29.59      A16S
ATOM  29468  O4* A   A1394     183.661 107.868 -18.682  1.00 29.59      A16S
ATOM  29469  C1* A   A1394     184.881 107.393 -19.203  1.00 29.59      A16S
ATOM  29470  N9  A   A1394     184.777 107.386 -20.648  1.00 51.02      A16S
ATOM  29471  C4  A   A1394     185.305 106.442 -21.480  1.00 51.02      A16S
ATOM  29472  N3  A   A1394     186.013 105.362 -21.129  1.00 51.02      A16S
ATOM  29473  C2  A   A1394     186.358 104.674 -22.202  1.00 51.02      A16S
ATOM  29474  N1  A   A1394     186.096 104.924 -23.485  1.00 51.02      A16S
ATOM  29475  C6  A   A1394     185.380 106.019 -23.794  1.00 51.02      A16S
ATOM  29476  N6  A   A1394     185.119 106.278 -25.075  1.00 51.02      A16S
ATOM  29477  C5  A   A1394     184.956 106.827 -22.752  1.00 51.02      A16S
ATOM  29478  N7  A   A1394     184.223 108.001 -22.726  1.00 51.02      A16S
ATOM  29479  C8  A   A1394     184.148 108.292 -21.455  1.00 51.02      A16S
ATOM  29480  C2* A   A1394     185.956 108.366 -18.746  1.00 29.59      A16S
ATOM  29481  O2* A   A1394     187.238 107.762 -18.809  1.00 29.59      A16S
ATOM  29482  C3* A   A1394     185.430 108.774 -17.369  1.00 29.59      A16S
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ATOM  29483  O3* A   A1394      185.784 107.857 -16.347  1.00 29.59       A16S
ATOM  29484  P    C   A1395      186.078 108.413 -14.874  1.00 28.60       A16S
ATOM  29485  O1P C   A1395      186.103 107.257 -13.933  1.00 49.31       A16S
ATOM  29486  O2P C   A1395      185.130 109.543 -14.634  1.00 49.31       A16S
ATOM  29487  O5* C   A1395      187.541 109.019 -14.989  1.00 28.60       A16S
ATOM  29488  C5* C   A1395      188.708 108.213 -14.762  1.00 28.60       A16S
ATOM  29489  C4* C   A1395      189.786 109.069 -14.159  1.00 28.60       A16S
ATOM  29490  O4* C   A1395      189.984 110.212 -15.022  1.00 28.60       A16S
ATOM  29491  C1* C   A1395      190.108 111.384 -14.256  1.00 28.60       A16S
ATOM  29492  N1   C   A1395      189.055 112.315 -14.678  1.00 49.31       A16S
ATOM  29493  C6   C   A1395      187.895 111.858 -15.232  1.00 49.31       A16S
ATOM  29494  C2   C   A1395      189.264 113.682 -14.511  1.00 49.31       A16S
ATOM  29495  O2   C   A1395      190.326 114.073 -13.999  1.00 49.31       A16S
ATOM  29496  N3   C   A1395      188.311 114.546 -14.908  1.00 49.31       A16S
ATOM  29497  C4   C   A1395      187.187 114.090 -15.446  1.00 49.31       A16S
ATOM  29498  N4   C   A1395      186.280 114.981 -15.820  1.00 49.31       A16S
ATOM  29499  C5   C   A1395      186.945 112.702 -15.625  1.00 49.31       A16S
ATOM  29500  C2* C   A1395      190.088 110.993 -12.782  1.00 28.60       A16S
ATOM  29501  O2* C   A1395      191.420 110.885 -12.349  1.00 28.60       A16S
ATOM  29502  C3* C   A1395      189.371 109.648 -12.825  1.00 28.60       A16S
ATOM  29503  O3* C   A1395      189.800 108.750 -11.815  1.00 28.60       A16S
ATOM  29504  P    A   A1396      188.990 108.649 -10.435  1.00 43.50       A16S
ATOM  29505  O1P A   A1396      189.860 107.888  -9.482  1.00 24.37       A16S
ATOM  29506  O2P A   A1396      187.593 108.182 -10.723  1.00 24.37       A16S
ATOM  29507  O5* A   A1396      188.935 110.152  -9.920  1.00 43.50       A16S
ATOM  29508  C5* A   A1396      190.095 110.760  -9.353  1.00 43.50       A16S
ATOM  29509  C4* A   A1396      189.699 111.916  -8.483  1.00 43.50       A16S
ATOM  29510  O4* A   A1396      189.164 112.966  -9.319  1.00 43.50       A16S
ATOM  29511  C1* A   A1396      187.908 113.355  -8.832  1.00 43.50       A16S
ATOM  29512  N9   A   A1396      187.096 113.759  -9.967  1.00 24.37       A16S
ATOM  29513  C4   A   A1396      186.698 115.041 -10.218  1.00 24.37       A16S
ATOM  29514  N3   A   A1396      186.947 116.123  -9.471  1.00 24.37       A16S
ATOM  29515  C2   A   A1396      186.429 117.210 -10.037  1.00 24.37       A16S
ATOM  29516  N1   A   A1396      185.748 117.326 -11.179  1.00 24.37       A16S
ATOM  29517  C6   A   A1396      185.518 116.214 -11.906  1.00 24.37       A16S
ATOM  29518  N6   A   A1396      184.849 116.331 -13.053  1.00 24.37       A16S
ATOM  29519  C5   A   A1396      186.008 114.997 -11.408  1.00 24.37       A16S
ATOM  29520  N7   A   A1396      185.948 113.697 -11.889  1.00 24.37       A16S
ATOM  29521  C8   A   A1396      186.605 113.004 -10.994  1.00 24.37       A16S
ATOM  29522  C2* A   A1396      187.374 112.175  -8.033  1.00 43.50       A16S
ATOM  29523  O2* A   A1396      186.477 112.663  -7.070  1.00 43.50       A16S
ATOM  29524  C3* A   A1396      188.654 111.631  -7.411  1.00 43.50       A16S
ATOM  29525  O3* A   A1396      188.967 112.417  -6.273  1.00 43.50       A16S
ATOM  29526  P    C   A1397      189.116 111.724  -4.842  1.00 48.03       A16S
ATOM  29527  O1P C   A1397      189.206 112.840  -3.874  1.00102.21       A16S
ATOM  29528  O2P C   A1397      188.071 110.690  -4.680  1.00102.21       A16S
ATOM  29529  O5* C   A1397      190.528 110.995  -4.902  1.00 53.26       A16S
ATOM  29530  C5* C   A1397      191.714 111.694  -5.346  1.00 53.26       A16S
ATOM  29531  C4* C   A1397      192.958 111.016  -4.811  1.00 53.26       A16S
ATOM  29532  O4* C   A1397      193.074 111.265  -3.391  1.00 53.26       A16S
ATOM  29533  C1* C   A1397      193.719 110.172  -2.768  1.00 53.26       A16S
ATOM  29534  N1   C   A1397      192.960 109.765  -1.576  1.00147.15       A16S
ATOM  29535  C6   C   A1397      191.713 109.212  -1.686  1.00147.15       A16S
ATOM  29536  C2   C   A1397      193.551 109.935  -0.315  1.00147.15       A16S
ATOM  29537  O2   C   A1397      194.673 110.467  -0.237  1.00147.15       A16S
ATOM  29538  N3   C   A1397      192.884 109.519   0.785  1.00147.15       A16S
ATOM  29539  C4   C   A1397      191.675 108.963   0.663  1.00147.15       A16S
ATOM  29540  N4   C   A1397      191.062 108.551   1.774  1.00147.15       A16S
ATOM  29541  C5   C   A1397      191.043 108.800  -0.605  1.00147.15       A16S
ATOM  29542  C2* C   A1397      193.933 109.061  -3.798  1.00 53.26       A16S
ATOM  29543  O2* C   A1397      195.305 108.970  -4.108  1.00 53.26       A16S
ATOM  29544  C3* C   A1397      193.020 109.498  -4.941  1.00 53.26       A16S
ATOM  29545  O3* C   A1397      193.429 109.055  -6.250  1.00 53.26       A16S
ATOM  29546  P    A   A1398      194.800 109.606  -6.925  1.00 53.50       A16S
ATOM  29547  O1P A   A1398      195.685 108.437  -7.229  1.00 41.36       A16S
ATOM  29548  O2P A   A1398      195.355 110.769  -6.155  1.00 41.36       A16S
ATOM  29549  O5* A   A1398      194.282 110.205  -8.304  1.00 53.50       A16S
ATOM  29550  C5* A   A1398      194.838 111.417  -8.813  1.00 53.50       A16S
ATOM  29551  C4* A   A1398      193.892 112.065  -9.775  1.00 53.50       A16S
ATOM  29552  O4* A   A1398      192.750 112.614  -9.072  1.00 53.50       A16S
ATOM  29553  C1* A   A1398      192.355 113.831  -9.687  1.00 53.50       A16S
ATOM  29554  N9   A   A1398      192.409 114.916  -8.700  1.00 41.36       A16S
ATOM  29555  C4   A   A1398      191.793 116.138  -8.840  1.00 41.36       A16S
ATOM  29556  N3   A   A1398      191.008 116.542  -9.852  1.00 41.36       A16S
ATOM  29557  C2   A   A1398      190.604 117.786  -9.655  1.00 41.36       A16S
ATOM  29558  N1   A   A1398      190.880 118.616  -8.643  1.00 41.36       A16S
ATOM  29559  C6   A   A1398      191.669 118.179  -7.646  1.00 41.36       A16S
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ATOM  29560  N6   A  A1398     191.942 119.009  -6.648  1.00 41.36      A16S
ATOM  29561  C5   A  A1398     192.154 116.873  -7.726  1.00 41.36      A16S
ATOM  29562  N7   A  A1398     192.958 116.124  -6.882  1.00 41.36      A16S
ATOM  29563  C8   A  A1398     193.077 114.971  -7.499  1.00 41.36      A16S
ATOM  29564  C2*  A  A1398     193.320 114.105 -10.839  1.00 53.50      A16S
ATOM  29565  O2*  A  A1398     192.780 113.722 -12.086  1.00 53.50      A16S
ATOM  29566  C3*  A  A1398     194.514 113.266 -10.436  1.00 53.50      A16S
ATOM  29567  O3*  A  A1398     195.286 112.883 -11.530  1.00 53.50      A16S
ATOM  29568  P    C  A1399     196.381 113.887 -12.082  1.00 34.63      A16S
ATOM  29569  O1P  C  A1399     197.224 114.312 -10.942  1.00 50.76      A16S
ATOM  29570  O2P  C  A1399     195.678 114.890 -12.908  1.00 50.76      A16S
ATOM  29571  O5*  C  A1399     197.263 112.986 -13.040  1.00 34.63      A16S
ATOM  29572  C5*  C  A1399     197.946 111.820 -12.546  1.00 34.63      A16S
ATOM  29573  C4*  C  A1399     198.531 111.046 -13.701  1.00 34.63      A16S
ATOM  29574  O4*  C  A1399     197.448 110.485 -14.488  1.00 34.63      A16S
ATOM  29575  C1*  C  A1399     197.563 110.916 -15.819  1.00 34.63      A16S
ATOM  29576  N1   C  A1399     196.216 111.045 -16.390  1.00 50.76      A16S
ATOM  29577  C6   C  A1399     195.319 111.934 -15.881  1.00 50.76      A16S
ATOM  29578  C2   C  A1399     195.870 110.246 -17.488  1.00 50.76      A16S
ATOM  29579  O2   C  A1399     196.688 109.416 -17.918  1.00 50.76      A16S
ATOM  29580  N3   C  A1399     194.657 110.397 -18.056  1.00 50.76      A16S
ATOM  29581  C4   C  A1399     193.806 111.296 -17.573  1.00 50.76      A16S
ATOM  29582  N4   C  A1399     192.639 111.447 -18.194  1.00 50.76      A16S
ATOM  29583  C5   C  A1399     194.116 112.091 -16.439  1.00 50.76      A16S
ATOM  29584  C2*  C  A1399     198.374 112.208 -15.768  1.00 34.63      A16S
ATOM  29585  O2*  C  A1399     198.996 112.493 -16.997  1.00 34.63      A16S
ATOM  29586  C3*  C  A1399     199.364 111.899 -14.651  1.00 34.63      A16S
ATOM  29587  O3*  C  A1399     200.458 111.147 -15.170  1.00 34.63      A16S
ATOM  29588  P    C  A1400     201.800 110.979 -14.301  1.00 28.17      A16S
ATOM  29589  O1P  C  A1400     202.056 112.257 -13.602  1.00 58.86      A16S
ATOM  29590  O2P  C  A1400     202.830 110.428 -15.206  1.00 58.86      A16S
ATOM  29591  O5*  C  A1400     201.424 109.864 -13.229  1.00 28.17      A16S
ATOM  29592  C5*  C  A1400     201.100 108.540 -13.652  1.00 28.17      A16S
ATOM  29593  C4*  C  A1400     201.259 107.586 -12.509  1.00 28.17      A16S
ATOM  29594  O4*  C  A1400     202.561 107.822 -11.927  1.00 28.17      A16S
ATOM  29595  C1*  C  A1400     202.430 108.115 -10.553  1.00 28.17      A16S
ATOM  29596  N1   C  A1400     203.469 109.093 -10.185  1.00 58.86      A16S
ATOM  29597  C6   C  A1400     203.695 110.195 -10.963  1.00 58.86      A16S
ATOM  29598  C2   C  A1400     204.255 108.863  -9.030  1.00 58.86      A16S
ATOM  29599  O2   C  A1400     204.008 107.883  -8.300  1.00 58.86      A16S
ATOM  29600  N3   C  A1400     205.259 109.719  -8.742  1.00 58.86      A16S
ATOM  29601  C4   C  A1400     205.488 110.773  -9.533  1.00 58.86      A16S
ATOM  29602  N4   C  A1400     206.515 111.573  -9.226  1.00 58.86      A16S
ATOM  29603  C5   C  A1400     204.683 111.050 -10.678  1.00 58.86      A16S
ATOM  29604  C2*  C  A1400     200.992 108.577 -10.345  1.00 28.17      A16S
ATOM  29605  O2*  C  A1400     200.584 108.313  -9.013  1.00 28.17      A16S
ATOM  29606  C3*  C  A1400     200.247 107.733 -11.379  1.00 28.17      A16S
ATOM  29607  O3*  C  A1400     199.948 106.439 -10.837  1.00 28.17      A16S
ATOM  29608  P    G  A1401     198.662 105.624 -11.368  1.00 38.24      A16S
ATOM  29609  O1P  G  A1401     198.180 104.731 -10.272  1.00 44.55      A16S
ATOM  29610  O2P  G  A1401     199.013 105.041 -12.698  1.00 44.55      A16S
ATOM  29611  O5*  G  A1401     197.566 106.749 -11.647  1.00 38.24      A16S
ATOM  29612  C5*  G  A1401     196.937 107.449 -10.580  1.00 38.24      A16S
ATOM  29613  C4*  G  A1401     195.587 107.965 -11.015  1.00 38.24      A16S
ATOM  29614  O4*  G  A1401     195.751 108.902 -12.112  1.00 38.24      A16S
ATOM  29615  C1*  G  A1401     194.653 108.794 -13.005  1.00 38.24      A16S
ATOM  29616  N9   G  A1401     195.147 108.225 -14.256  1.00 44.55      A16S
ATOM  29617  C4   G  A1401     194.433 108.033 -15.412  1.00 44.55      A16S
ATOM  29618  N3   G  A1401     193.162 108.421 -15.631  1.00 44.55      A16S
ATOM  29619  C2   G  A1401     192.721 108.019 -16.810  1.00 44.55      A16S
ATOM  29620  N2   G  A1401     191.476 108.307 -17.188  1.00 44.55      A16S
ATOM  29621  N1   G  A1401     193.469 107.298 -17.709  1.00 44.55      A16S
ATOM  29622  C6   G  A1401     194.782 106.887 -17.510  1.00 44.55      A16S
ATOM  29623  O6   G  A1401     195.362 106.217 -18.382  1.00 44.55      A16S
ATOM  29624  C5   G  A1401     195.271 107.320 -16.243  1.00 44.55      A16S
ATOM  29625  N7   G  A1401     196.509 107.133 -15.649  1.00 44.55      A16S
ATOM  29626  C8   G  A1401     196.395 107.699 -14.482  1.00 44.55      A16S
ATOM  29627  C2*  G  A1401     193.665 107.814 -12.367  1.00 38.24      A16S
ATOM  29628  O2*  G  A1401     192.766 108.510 -11.529  1.00 38.24      A16S
ATOM  29629  C3*  G  A1401     194.591 106.945 -11.539  1.00 38.24      A16S
ATOM  29630  O3*  G  A1401     193.878 106.291 -10.507  1.00 38.24      A16S
ATOM  29631  P    C  A1402     193.578 104.719 -10.637  1.00 35.82      A16S
ATOM  29632  O1P  C  A1402     192.787 104.301  -9.451  1.00 48.05      A16S
ATOM  29633  O2P  C  A1402     194.855 104.036 -10.938  1.00 48.05      A16S
ATOM  29634  O5*  C  A1402     192.628 104.607 -11.906  1.00 35.82      A16S
ATOM  29635  C5*  C  A1402     191.315 105.166 -11.869  1.00 35.82      A16S
ATOM  29636  C4*  C  A1402     190.714 105.208 -13.249  1.00 35.82      A16S
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ATOM  29637  O4*  C   A1402     191.667 105.806 -14.173  1.00 35.82      A16S
ATOM  29638  C1*  C   A1402     191.494 105.246 -15.467  1.00 35.82      A16S
ATOM  29639  N1   C   A1402     192.747 104.587 -15.870  1.00 48.05      A16S
ATOM  29640  C6   C   A1402     193.819 104.520 -15.028  1.00 48.05      A16S
ATOM  29641  C2   C   A1402     192.808 104.010 -17.125  1.00 48.05      A16S
ATOM  29642  O2   C   A1402     191.832 104.112 -17.869  1.00 48.05      A16S
ATOM  29643  N3   C   A1402     193.921 103.353 -17.502  1.00 48.05      A16S
ATOM  29644  C4   C   A1402     194.955 103.266 -16.669  1.00 48.05      A16S
ATOM  29645  N4   C   A1402     196.035 102.578 -17.077  1.00 48.05      A16S
ATOM  29646  C5   C   A1402     194.931 103.871 -15.381  1.00 48.05      A16S
ATOM  29647  C2*  C   A1402     190.341 104.242 -15.382  1.00 35.82      A16S
ATOM  29648  O2*  C   A1402     189.137 104.860 -15.806  1.00 35.82      A16S
ATOM  29649  C3*  C   A1402     190.360 103.882 -13.898  1.00 35.82      A16S
ATOM  29650  O3*  C   A1402     189.117 103.372 -13.447  1.00 35.82      A16S
ATOM  29651  P    C   A1403     188.947 101.790 -13.231  1.00 42.77      A16S
ATOM  29652  O1P  C   A1403     187.528 101.515 -12.880  1.00 53.09      A16S
ATOM  29653  O2P  C   A1403     190.030 101.314 -12.330  1.00 53.09      A16S
ATOM  29654  O5*  C   A1403     189.185 101.201 -14.689  1.00 42.77      A16S
ATOM  29655  C5*  C   A1403     188.372 101.643 -15.792  1.00 42.77      A16S
ATOM  29656  C4*  C   A1403     188.967 101.187 -17.103  1.00 42.77      A16S
ATOM  29657  O4*  C   A1403     190.255 101.813 -17.302  1.00 42.77      A16S
ATOM  29658  C1*  C   A1403     191.145 100.895 -17.894  1.00 42.77      A16S
ATOM  29659  N1   C   A1403     192.250 100.675 -16.943  1.00 53.09      A16S
ATOM  29660  C6   C   A1403     192.213 101.228 -15.693  1.00 53.09      A16S
ATOM  29661  C2   C   A1403     193.337  99.899 -17.329  1.00 53.09      A16S
ATOM  29662  O2   C   A1403     193.344  99.405 -18.458  1.00 53.09      A16S
ATOM  29663  N3   C   A1403     194.354  99.704 -16.456  1.00 53.09      A16S
ATOM  29664  C4   C   A1403     194.305 100.251 -15.243  1.00 53.09      A16S
ATOM  29665  N4   C   A1403     195.326 100.040 -14.415  1.00 53.09      A16S
ATOM  29666  C5   C   A1403     193.208 101.042 -14.823  1.00 53.09      A16S
ATOM  29667  C2*  C   A1403     190.341  99.639 -18.248  1.00 42.77      A16S
ATOM  29668  O2*  C   A1403     189.870  99.803 -19.569  1.00 42.77      A16S
ATOM  29669  C3*  C   A1403     189.205  99.694 -17.234  1.00 42.77      A16S
ATOM  29670  O3*  C   A1403     187.998  99.095 -17.714  1.00 42.77      A16S
ATOM  29671  P    C   A1404     187.684  97.543 -17.423  1.00 35.39      A16S
ATOM  29672  O1P  C   A1404     186.211  97.408 -17.382  1.00 36.77      A16S
ATOM  29673  O2P  C   A1404     188.499  97.050 -16.276  1.00 36.77      A16S
ATOM  29674  O5*  C   A1404     188.150  96.828 -18.764  1.00 35.39      A16S
ATOM  29675  C5*  C   A1404     187.642  97.280 -20.031  1.00 35.39      A16S
ATOM  29676  C4*  C   A1404     188.410  96.645 -21.153  1.00 35.39      A16S
ATOM  29677  O4*  C   A1404     189.735  97.206 -21.219  1.00 35.39      A16S
ATOM  29678  C1*  C   A1404     190.666  96.197 -21.554  1.00 35.39      A16S
ATOM  29679  N1   C   A1404     191.599  96.072 -20.429  1.00 36.77      A16S
ATOM  29680  C6   C   A1404     191.247  96.493 -19.172  1.00 36.77      A16S
ATOM  29681  C2   C   A1404     192.850  95.527 -20.661  1.00 36.77      A16S
ATOM  29682  O2   C   A1404     193.120  95.126 -21.802  1.00 36.77      A16S
ATOM  29683  N3   C   A1404     193.730  95.442 -19.638  1.00 36.77      A16S
ATOM  29684  C4   C   A1404     193.381  95.868 -18.419  1.00 36.77      A16S
ATOM  29685  N4   C   A1404     194.279  95.776 -17.440  1.00 36.77      A16S
ATOM  29686  C5   C   A1404     192.097  96.410 -18.151  1.00 36.77      A16S
ATOM  29687  C2*  C   A1404     189.882  94.913 -21.813  1.00 35.39      A16S
ATOM  29688  O2*  C   A1404     189.569  94.794 -23.187  1.00 35.39      A16S
ATOM  29689  C3*  C   A1404     188.631  95.159 -20.996  1.00 35.39      A16S
ATOM  29690  O3*  C   A1404     187.533  94.451 -21.504  1.00 35.39      A16S
ATOM  29691  P    G   A1405     186.991  93.188 -20.706  1.00 31.45      A16S
ATOM  29692  O1P  G   A1405     185.537  93.087 -20.982  1.00 54.03      A16S
ATOM  29693  O2P  G   A1405     187.471  93.344 -19.311  1.00 54.03      A16S
ATOM  29694  O5*  G   A1405     187.759  91.975 -21.385  1.00 31.45      A16S
ATOM  29695  C5*  G   A1405     187.655  91.757 -22.795  1.00 31.45      A16S
ATOM  29696  C4*  G   A1405     188.810  90.925 -23.302  1.00 31.45      A16S
ATOM  29697  O4*  G   A1405     190.031  91.715 -23.318  1.00 31.45      A16S
ATOM  29698  C1*  G   A1405     191.144  90.875 -23.034  1.00 31.45      A16S
ATOM  29699  N9   G   A1405     191.701  91.245 -21.726  1.00 54.03      A16S
ATOM  29700  C4   G   A1405     193.038  91.263 -21.350  1.00 54.03      A16S
ATOM  29701  N3   G   A1405     194.096  90.976 -22.137  1.00 54.03      A16S
ATOM  29702  C2   G   A1405     195.240  91.020 -21.468  1.00 54.03      A16S
ATOM  29703  N2   G   A1405     196.385  90.727 -22.088  1.00 54.03      A16S
ATOM  29704  N1   G   A1405     195.345  91.342 -20.142  1.00 54.03      A16S
ATOM  29705  C6   G   A1405     194.280  91.647 -19.311  1.00 54.03      A16S
ATOM  29706  O6   G   A1405     194.488  91.915 -18.123  1.00 54.03      A16S
ATOM  29707  C5   G   A1405     193.036  91.590 -20.010  1.00 54.03      A16S
ATOM  29708  N7   G   A1405     191.741  91.801 -19.557  1.00 54.03      A16S
ATOM  29709  C8   G   A1405     190.988  91.598 -20.604  1.00 54.03      A16S
ATOM  29710  C2*  G   A1405     190.601  89.443 -22.995  1.00 31.45      A16S
ATOM  29711  O2*  G   A1405     190.579  88.919 -24.314  1.00 31.45      A16S
ATOM  29712  C3*  G   A1405     189.178  89.674 -22.518  1.00 31.45      A16S
ATOM  29713  O3*  G   A1405     188.345  88.558 -22.793  1.00 31.45      A16S
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ATOM  29714  P    U    A1406     188.285  87.335 -21.746  1.00 43.98      A16S
ATOM  29715  O1P  U    A1406     187.098  86.518 -22.096  1.00 64.89      A16S
ATOM  29716  O2P  U    A1406     188.440  87.844 -20.372  1.00 64.89      A16S
ATOM  29717  O5*  U    A1406     189.607  86.498 -22.036  1.00 43.98      A16S
ATOM  29718  C5*  U    A1406     189.939  86.085 -23.370  1.00 43.98      A16S
ATOM  29719  C4*  U    A1406     191.358  85.551 -23.432  1.00 43.98      A16S
ATOM  29720  O4*  U    A1406     192.344  86.613 -23.274  1.00 43.98      A16S
ATOM  29721  C1*  U    A1406     193.533  86.067 -22.727  1.00 43.98      A16S
ATOM  29722  N1   U    A1406     193.885  86.790 -21.496  1.00 64.89      A16S
ATOM  29723  C6   U    A1406     192.944  87.462 -20.765  1.00 64.89      A16S
ATOM  29724  C2   U    A1406     195.208  86.754 -21.085  1.00 64.89      A16S
ATOM  29725  O2   U    A1406     196.083  86.190 -21.710  1.00 64.89      A16S
ATOM  29726  N3   U    A1406     195.470  87.408 -19.915  1.00 64.89      A16S
ATOM  29727  C4   U    A1406     194.576  88.087 -19.133  1.00 64.89      A16S
ATOM  29728  O4   U    A1406     194.965  88.613 -18.093  1.00 64.89      A16S
ATOM  29729  C5   U    A1406     193.235  88.095 -19.628  1.00 64.89      A16S
ATOM  29730  C2*  U    A1406     193.282  84.579 -22.466  1.00 43.98      A16S
ATOM  29731  O2*  U    A1406     193.789  83.818 -23.547  1.00 43.98      A16S
ATOM  29732  C3*  U    A1406     191.764  84.514 -22.403  1.00 43.98      A16S
ATOM  29733  O3*  U    A1406     191.315  83.225 -22.749  1.00 43.98      A16S
ATOM  29734  P    C    A1407     190.978  82.172 -21.587  1.00 50.49      A16S
ATOM  29735  O1P  C    A1407     190.673  80.870 -22.241  1.00 59.84      A16S
ATOM  29736  O2P  C    A1407     189.984  82.783 -20.684  1.00 59.84      A16S
ATOM  29737  O5*  C    A1407     192.343  82.039 -20.776  1.00 50.49      A16S
ATOM  29738  C5*  C    A1407     193.529  81.564 -21.428  1.00 50.49      A16S
ATOM  29739  C4*  C    A1407     194.711  81.617 -20.494  1.00 50.49      A16S
ATOM  29740  O4*  C    A1407     195.115  82.986 -20.243  1.00 50.49      A16S
ATOM  29741  C1*  C    A1407     195.676  83.083 -18.946  1.00 50.49      A16S
ATOM  29742  N1   C    A1407     194.919  84.082 -18.169  1.00 59.84      A16S
ATOM  29743  C6   C    A1407     193.592  84.310 -18.417  1.00 59.84      A16S
ATOM  29744  C2   C    A1407     195.574  84.786 -17.153  1.00 59.84      A16S
ATOM  29745  O2   C    A1407     196.776  84.570 -16.950  1.00 59.84      A16S
ATOM  29746  N3   C    A1407     194.881  85.677 -16.418  1.00 59.84      A16S
ATOM  29747  C4   C    A1407     193.587  85.876 -16.658  1.00 59.84      A16S
ATOM  29748  N4   C    A1407     192.943  86.749 -15.897  1.00 59.84      A16S
ATOM  29749  C5   C    A1407     192.895  85.185 -17.688  1.00 59.84      A16S
ATOM  29750  C2*  C    A1407     195.609  81.693 -18.308  1.00 50.49      A16S
ATOM  29751  O2*  C    A1407     196.844  81.024 -18.462  1.00 50.49      A16S
ATOM  29752  C3*  C    A1407     194.504  81.030 -19.117  1.00 50.49      A16S
ATOM  29753  O3*  C    A1407     194.630  79.624 -19.118  1.00 50.49      A16S
ATOM  29754  P    A    A1408     193.906  78.778 -17.964  1.00 50.30      A16S
ATOM  29755  O1P  A    A1408     194.139  77.334 -18.249  1.00 64.92      A16S
ATOM  29756  O2P  A    A1408     192.511  79.275 -17.825  1.00 64.92      A16S
ATOM  29757  O5*  A    A1408     194.719  79.204 -16.661  1.00 50.30      A16S
ATOM  29758  C5*  A    A1408     196.116  78.913 -16.556  1.00 50.30      A16S
ATOM  29759  C4*  A    A1408     196.606  79.176 -15.161  1.00 50.30      A16S
ATOM  29760  O4*  A    A1408     196.759  80.594 -14.950  1.00 50.30      A16S
ATOM  29761  C1*  A    A1408     196.506  80.899 -13.591  1.00 50.30      A16S
ATOM  29762  N9   A    A1408     195.436  81.887 -13.532  1.00 64.92      A16S
ATOM  29763  C4   A    A1408     195.064  82.622 -12.438  1.00 64.92      A16S
ATOM  29764  N3   A    A1408     195.631  82.620 -11.225  1.00 64.92      A16S
ATOM  29765  C2   A    A1408     194.990  83.447 -10.411  1.00 64.92      A16S
ATOM  29766  N1   A    A1408     193.922  84.210 -10.651  1.00 64.92      A16S
ATOM  29767  C6   A    A1408     193.370  84.175 -11.880  1.00 64.92      A16S
ATOM  29768  N6   A    A1408     192.280  84.909 -12.121  1.00 64.92      A16S
ATOM  29769  C5   A    A1408     193.971  83.355 -12.836  1.00 64.92      A16S
ATOM  29770  N7   A    A1408     193.681  83.118 -14.167  1.00 64.92      A16S
ATOM  29771  C8   A    A1408     194.581  82.246 -14.533  1.00 64.92      A16S
ATOM  29772  C2*  A    A1408     196.127  79.599 -12.878  1.00 50.30      A16S
ATOM  29773  O2*  A    A1408     197.246  79.084 -12.197  1.00 50.30      A16S
ATOM  29774  C3*  A    A1408     195.704  78.713 -14.039  1.00 50.30      A16S
ATOM  29775  O3*  A    A1408     195.904  77.350 -13.737  1.00 50.30      A16S
ATOM  29776  P    C    A1409     194.754  76.543 -12.969  1.00 48.39      A16S
ATOM  29777  O1P  C    A1409     195.267  75.173 -12.742  1.00 77.53      A16S
ATOM  29778  O2P  C    A1409     193.474  76.729 -13.699  1.00 77.53      A16S
ATOM  29779  O5*  C    A1409     194.642  77.287 -11.566  1.00 48.39      A16S
ATOM  29780  C5*  C    A1409     195.677  77.144 -10.595  1.00 48.39      A16S
ATOM  29781  C4*  C    A1409     195.244  77.706  -9.272  1.00 48.39      A16S
ATOM  29782  O4*  C    A1409     195.279  79.152  -9.311  1.00 48.39      A16S
ATOM  29783  C1*  C    A1409     194.246  79.675  -8.491  1.00 48.39      A16S
ATOM  29784  N1   C    A1409     193.313  80.434  -9.344  1.00 77.53      A16S
ATOM  29785  C6   C    A1409     193.141  80.105 -10.659  1.00 77.53      A16S
ATOM  29786  C2   C    A1409     192.578  81.477  -8.780  1.00 77.53      A16S
ATOM  29787  O2   C    A1409     192.781  81.787  -7.591  1.00 77.53      A16S
ATOM  29788  N3   C    A1409     191.669  82.124  -9.540  1.00 77.53      A16S
ATOM  29789  C4   C    A1409     191.495  81.776 -10.815  1.00 77.53      A16S
ATOM  29790  N4   C    A1409     190.578  82.437 -11.528  1.00 77.53      A16S
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ATOM  29791  C5  C   A1409     192.250  80.740 -11.419  1.00 77.53      A16S
ATOM  29792  C2* C   A1409     193.532  78.488  -7.839  1.00 48.39      A16S
ATOM  29793  O2* C   A1409     194.054  78.251  -6.547  1.00 48.39      A16S
ATOM  29794  C3* C   A1409     193.834  77.373  -8.830  1.00 48.39      A16S
ATOM  29795  O3* C   A1409     193.732  76.089  -8.252  1.00 48.39      A16S
ATOM  29796  P   G   A1410     192.345  75.295  -8.354  1.00 57.57      A16S
ATOM  29797  O1P G   A1410     192.538  73.981  -7.694  1.00 77.76      A16S
ATOM  29798  O2P G   A1410     191.884  75.349  -9.759  1.00 77.76      A16S
ATOM  29799  O5* G   A1410     191.358  76.159  -7.461  1.00 57.57      A16S
ATOM  29800  C5* G   A1410     191.571  76.259  -6.056  1.00 57.57      A16S
ATOM  29801  C4* G   A1410     190.509  77.116  -5.428  1.00 57.57      A16S
ATOM  29802  O4* G   A1410     190.632  78.476  -5.916  1.00 57.57      A16S
ATOM  29803  C1* G   A1410     189.356  79.089  -5.929  1.00 57.57      A16S
ATOM  29804  N9  G   A1410     189.045  79.525  -7.287  1.00 77.76      A16S
ATOM  29805  C4  G   A1410     188.040  80.388  -7.642  1.00 77.76      A16S
ATOM  29806  N3  G   A1410     187.180  80.977  -6.800  1.00 77.76      A16S
ATOM  29807  C2  G   A1410     186.337  81.760  -7.430  1.00 77.76      A16S
ATOM  29808  N2  G   A1410     185.419  82.426  -6.738  1.00 77.76      A16S
ATOM  29809  N1  G   A1410     186.332  81.951  -8.780  1.00 77.76      A16S
ATOM  29810  C6  G   A1410     187.204  81.351  -9.671  1.00 77.76      A16S
ATOM  29811  O6  G   A1410     187.110  81.590 -10.876  1.00 77.76      A16S
ATOM  29812  C5  G   A1410     188.121  80.508  -9.008  1.00 77.76      A16S
ATOM  29813  N7  G   A1410     189.155  79.730  -9.511  1.00 77.76      A16S
ATOM  29814  C8  G   A1410     189.675  79.166  -8.455  1.00 77.76      A16S
ATOM  29815  C2* G   A1410     188.348  78.064  -5.414  1.00 57.57      A16S
ATOM  29816  O2* G   A1410     188.172  78.257  -4.024  1.00 57.57      A16S
ATOM  29817  C3* G   A1410     189.062  76.755  -5.714  1.00 57.57      A16S
ATOM  29818  O3* G   A1410     188.571  75.701  -4.904  1.00 57.57      A16S
ATOM  29819  P   C   A1411     187.334  74.815  -5.430  1.00 90.96      A16S
ATOM  29820  O1P C   A1411     187.183  73.684  -4.490  1.00 76.91      A16S
ATOM  29821  O2P C   A1411     187.508  74.544  -6.880  1.00 76.91      A16S
ATOM  29822  O5* C   A1411     186.071  75.772  -5.254  1.00 90.96      A16S
ATOM  29823  C5* C   A1411     185.551  76.063  -3.939  1.00 90.96      A16S
ATOM  29824  C4* C   A1411     184.239  76.815  -4.028  1.00 90.96      A16S
ATOM  29825  O4* C   A1411     184.467  78.146  -4.558  1.00 90.96      A16S
ATOM  29826  C1* C   A1411     183.354  78.540  -5.342  1.00 90.96      A16S
ATOM  29827  N1  C   A1411     183.803  78.764  -6.733  1.00 76.91      A16S
ATOM  29828  C6  C   A1411     185.058  78.403  -7.135  1.00 76.91      A16S
ATOM  29829  C2  C   A1411     182.916  79.357  -7.646  1.00 76.91      A16S
ATOM  29830  O2  C   A1411     181.777  79.670  -7.267  1.00 76.91      A16S
ATOM  29831  N3  C   A1411     183.319  79.569  -8.914  1.00 76.91      A16S
ATOM  29832  C4  C   A1411     184.544  79.213  -9.291  1.00 76.91      A16S
ATOM  29833  N4  C   A1411     184.897  79.440 -10.552  1.00 76.91      A16S
ATOM  29834  C5  C   A1411     185.464  78.606  -8.392  1.00 76.91      A16S
ATOM  29835  C2* C   A1411     182.305  77.430  -5.255  1.00 90.96      A16S
ATOM  29836  O2* C   A1411     181.379  77.729  -4.228  1.00 90.96      A16S
ATOM  29837  C3* C   A1411     183.164  76.218  -4.928  1.00 90.96      A16S
ATOM  29838  O3* C   A1411     182.404  75.193  -4.295  1.00 90.96      A16S
ATOM  29839  P   C   A1412     181.558  74.160  -5.198  1.00 98.60      A16S
ATOM  29840  O1P C   A1412     180.873  73.221  -4.266  1.00 62.87      A16S
ATOM  29841  O2P C   A1412     182.419  73.619  -6.283  1.00 62.87      A16S
ATOM  29842  O5* C   A1412     180.455  75.077  -5.887  1.00 98.60      A16S
ATOM  29843  C5* C   A1412     179.455  75.725  -5.093  1.00 98.60      A16S
ATOM  29844  C4* C   A1412     178.562  76.582  -5.954  1.00 98.60      A16S
ATOM  29845  O4* C   A1412     179.324  77.673  -6.534  1.00 98.60      A16S
ATOM  29846  C1* C   A1412     178.767  78.021  -7.792  1.00 98.60      A16S
ATOM  29847  N1  C   A1412     179.789  77.846  -8.845  1.00 62.87      A16S
ATOM  29848  C6  C   A1412     180.770  76.900  -8.730  1.00 62.87      A16S
ATOM  29849  C2  C   A1412     179.729  78.663  -9.986  1.00 62.87      A16S
ATOM  29850  O2  C   A1412     178.836  79.522 -10.070  1.00 62.87      A16S
ATOM  29851  N3  C   A1412     180.643  78.494 -10.967  1.00 62.87      A16S
ATOM  29852  C4  C   A1412     181.590  77.567 -10.842  1.00 62.87      A16S
ATOM  29853  N4  C   A1412     182.466  77.442 -11.831  1.00 62.87      A16S
ATOM  29854  C5  C   A1412     181.680  76.728  -9.695  1.00 62.87      A16S
ATOM  29855  C2* C   A1412     177.561  77.113  -8.027  1.00 98.60      A16S
ATOM  29856  O2* C   A1412     176.384  77.763  -7.590  1.00 98.60      A16S
ATOM  29857  C3* C   A1412     177.900  75.917  -7.151  1.00 98.60      A16S
ATOM  29858  O3* C   A1412     176.739  75.169  -6.814  1.00 98.60      A16S
ATOM  29859  P   A   A1413     176.238  73.994  -7.798  1.00 81.30      A16S
ATOM  29860  O1P A   A1413     175.322  73.142  -7.006  1.00 87.46      A16S
ATOM  29861  O2P A   A1413     177.401  73.370  -8.489  1.00 87.46      A16S
ATOM  29862  O5* A   A1413     175.375  74.753  -8.902  1.00 81.30      A16S
ATOM  29863  C5* A   A1413     174.227  75.545  -8.536  1.00 81.30      A16S
ATOM  29864  C4* A   A1413     173.886  76.513  -9.644  1.00 81.30      A16S
ATOM  29865  O4* A   A1413     175.020  77.392  -9.870  1.00 81.30      A16S
ATOM  29866  C1* A   A1413     175.154  77.666 -11.254  1.00 81.30      A16S
ATOM  29867  N9  A   A1413     176.377  77.027 -11.732  1.00 87.46      A16S
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ATOM  29868  C4   A   A1413     176.927  77.201 -12.974  1.00 87.46      A16S
ATOM  29869  N3   A   A1413     176.469  77.987 -13.959  1.00 87.46      A16S
ATOM  29870  C2   A   A1413     177.250  77.899 -15.026  1.00 87.46      A16S
ATOM  29871  N1   A   A1413     178.354  77.174 -15.207  1.00 87.46      A16S
ATOM  29872  C6   A   A1413     178.788  76.395 -14.195  1.00 87.46      A16S
ATOM  29873  N6   A   A1413     179.896  75.673 -14.373  1.00 87.46      A16S
ATOM  29874  C5   A   A1413     178.043  76.394 -13.009  1.00 87.46      A16S
ATOM  29875  N7   A   A1413     178.202  75.722 -11.806  1.00 87.46      A16S
ATOM  29876  C8   A   A1413     177.192  76.133 -11.085  1.00 87.46      A16S
ATOM  29877  C2*  A   A1413     173.959  77.033 -11.953  1.00 81.30      A16S
ATOM  29878  O2*  A   A1413     172.917  77.982 -12.055  1.00 81.30      A16S
ATOM  29879  C3*  A   A1413     173.636  75.892 -11.005  1.00 81.30      A16S
ATOM  29880  O3*  A   A1413     172.315  75.449 -11.174  1.00 81.30      A16S
ATOM  29881  P    U   A1414     172.013  74.297 -12.244  1.00 93.35      A16S
ATOM  29882  O1P  U   A1414     170.532  74.248 -12.404  1.00 69.14      A16S
ATOM  29883  O2P  U   A1414     172.759  73.078 -11.821  1.00 69.14      A16S
ATOM  29884  O5*  U   A1414     172.634  74.840 -13.611  1.00 93.35      A16S
ATOM  29885  C5*  U   A1414     171.984  75.903 -14.339  1.00 93.35      A16S
ATOM  29886  C4*  U   A1414     172.625  76.109 -15.693  1.00 93.35      A16S
ATOM  29887  O4*  U   A1414     174.031  76.438 -15.530  1.00 93.35      A16S
ATOM  29888  C1*  U   A1414     174.739  76.055 -16.700  1.00 93.35      A16S
ATOM  29889  N1   U   A1414     175.858  75.157 -16.363  1.00 69.14      A16S
ATOM  29890  C6   U   A1414     175.848  74.339 -15.261  1.00 69.14      A16S
ATOM  29891  C2   U   A1414     176.925  75.129 -17.253  1.00 69.14      A16S
ATOM  29892  O2   U   A1414     177.021  75.890 -18.201  1.00 69.14      A16S
ATOM  29893  N3   U   A1414     177.881  74.185 -16.991  1.00 69.14      A16S
ATOM  29894  C4   U   A1414     177.904  73.300 -15.949  1.00 69.14      A16S
ATOM  29895  O4   U   A1414     178.758  72.409 -15.941  1.00 69.14      A16S
ATOM  29896  C5   U   A1414     176.809  73.434 -15.028  1.00 69.14      A16S
ATOM  29897  C2*  U   A1414     173.757  75.338 -17.625  1.00 93.35      A16S
ATOM  29898  O2*  U   A1414     173.298  76.223 -18.625  1.00 93.35      A16S
ATOM  29899  C3*  U   A1414     172.656  74.933 -16.658  1.00 93.35      A16S
ATOM  29900  O3*  U   A1414     171.446  74.707 -17.364  1.00 93.35      A16S
ATOM  29901  P    G   A1415     171.228  73.299 -18.120  1.00 45.46      A16S
ATOM  29902  O1P  G   A1415     169.763  73.081 -18.224  1.00 92.58      A16S
ATOM  29903  O2P  G   A1415     172.072  72.281 -17.440  1.00 92.58      A16S
ATOM  29904  O5*  G   A1415     171.795  73.542 -19.591  1.00 45.46      A16S
ATOM  29905  C5*  G   A1415     171.225  74.563 -20.416  1.00 45.46      A16S
ATOM  29906  C4*  G   A1415     172.042  74.781 -21.665  1.00 45.46      A16S
ATOM  29907  O4*  G   A1415     173.373  75.243 -21.330  1.00 45.46      A16S
ATOM  29908  C1*  G   A1415     174.309  74.751 -22.279  1.00 45.46      A16S
ATOM  29909  N9   G   A1415     175.209  73.833 -21.585  1.00 92.58      A16S
ATOM  29910  C4   G   A1415     176.276  73.151 -22.122  1.00 92.58      A16S
ATOM  29911  N3   G   A1415     176.728  73.250 -23.387  1.00 92.58      A16S
ATOM  29912  C2   G   A1415     177.748  72.442 -23.609  1.00 92.58      A16S
ATOM  29913  N2   G   A1415     178.326  72.409 -24.816  1.00 92.58      A16S
ATOM  29914  N1   G   A1415     178.276  71.604 -22.665  1.00 92.58      A16S
ATOM  29915  C6   G   A1415     177.818  71.480 -21.358  1.00 92.58      A16S
ATOM  29916  O6   G   A1415     178.351  70.670 -20.585  1.00 92.58      A16S
ATOM  29917  C5   G   A1415     176.740  72.344 -21.106  1.00 92.58      A16S
ATOM  29918  N7   G   A1415     176.007  72.539 -19.946  1.00 92.58      A16S
ATOM  29919  C8   G   A1415     175.121  73.438 -20.272  1.00 92.58      A16S
ATOM  29920  C2*  G   A1415     173.502  74.004 -23.341  1.00 45.46      A16S
ATOM  29921  O2*  G   A1415     173.160  74.871 -24.406  1.00 45.46      A16S
ATOM  29922  C3*  G   A1415     172.282  73.578 -22.544  1.00 45.46      A16S
ATOM  29923  O3*  G   A1415     171.186  73.297 -23.375  1.00 45.46      A16S
ATOM  29924  P    G   A1416     170.787  71.772 -23.642  1.00 64.41      A16S
ATOM  29925  O1P  G   A1416     169.456  71.752 -24.284  1.00 56.68      A16S
ATOM  29926  O2P  G   A1416     171.008  71.021 -22.371  1.00 56.68      A16S
ATOM  29927  O5*  G   A1416     171.850  71.290 -24.717  1.00 64.41      A16S
ATOM  29928  C5*  G   A1416     171.920  71.907 -26.007  1.00 64.41      A16S
ATOM  29929  C4*  G   A1416     173.044  71.299 -26.803  1.00 64.41      A16S
ATOM  29930  O4*  G   A1416     174.302  71.612 -26.156  1.00 64.41      A16S
ATOM  29931  C1*  G   A1416     175.167  70.491 -26.215  1.00 64.41      A16S
ATOM  29932  N9   G   A1416     175.436  70.059 -24.847  1.00 56.68      A16S
ATOM  29933  C4   G   A1416     176.393  69.168 -24.449  1.00 56.68      A16S
ATOM  29934  N3   G   A1416     177.242  68.507 -25.262  1.00 56.68      A16S
ATOM  29935  C2   G   A1416     178.058  67.733 -24.583  1.00 56.68      A16S
ATOM  29936  N2   G   A1416     178.960  67.005 -25.234  1.00 56.68      A16S
ATOM  29937  N1   G   A1416     178.050  67.621 -23.211  1.00 56.68      A16S
ATOM  29938  C6   G   A1416     177.189  68.305 -22.355  1.00 56.68      A16S
ATOM  29939  O6   G   A1416     177.277  68.161 -21.123  1.00 56.68      A16S
ATOM  29940  C5   G   A1416     176.300  69.121 -23.072  1.00 56.68      A16S
ATOM  29941  N7   G   A1416     175.286  69.946 -22.618  1.00 56.68      A16S
ATOM  29942  C8   G   A1416     174.797  70.477 -23.702  1.00 56.68      A16S
ATOM  29943  C2*  G   A1416     174.483  69.422 -27.063  1.00 64.41      A16S
ATOM  29944  O2*  G   A1416     174.912  69.569 -28.400  1.00 64.41      A16S
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ATOM  29945  C3* G   A1416     173.015  69.781 -26.876  1.00 64.41      A16S
ATOM  29946  O3* G   A1416     172.196  69.332 -27.944  1.00 64.41      A16S
ATOM  29947  P    G   A1417     171.335  67.998 -27.761  1.00 93.60      A16S
ATOM  29948  O1P G   A1417     170.730  67.697 -29.083  1.00 91.42      A16S
ATOM  29949  O2P G   A1417     170.464  68.153 -26.571  1.00 91.42      A16S
ATOM  29950  O5* G   A1417     172.442  66.904 -27.432  1.00 93.60      A16S
ATOM  29951  C5* G   A1417     173.488  66.618 -28.382  1.00 93.60      A16S
ATOM  29952  C4* G   A1417     174.515  65.690 -27.780  1.00 93.60      A16S
ATOM  29953  O4* G   A1417     175.245  66.365 -26.729  1.00 93.60      A16S
ATOM  29954  C1* G   A1417     175.585  65.436 -25.719  1.00 93.60      A16S
ATOM  29955  N9   G   A1417     175.028  65.906 -24.459  1.00 91.42      A16S
ATOM  29956  C4   G   A1417     175.479  65.587 -23.205  1.00 91.42      A16S
ATOM  29957  N3   G   A1417     176.508  64.763 -22.919  1.00 91.42      A16S
ATOM  29958  C2   G   A1417     176.713  64.663 -21.613  1.00 91.42      A16S
ATOM  29959  N2   G   A1417     177.690  63.870 -21.145  1.00 91.42      A16S
ATOM  29960  N1   G   A1417     175.974  65.329 -20.667  1.00 91.42      A16S
ATOM  29961  C6   G   A1417     174.915  66.188 -20.939  1.00 91.42      A16S
ATOM  29962  O6   G   A1417     174.324  66.754 -20.005  1.00 91.42      A16S
ATOM  29963  C5   G   A1417     174.672  66.289 -22.337  1.00 91.42      A16S
ATOM  29964  N7   G   A1417     173.721  67.020 -23.034  1.00 91.42      A16S
ATOM  29965  C8   G   A1417     173.968  66.759 -24.286  1.00 91.42      A16S
ATOM  29966  C2* G   A1417     175.067  64.061 -26.140  1.00 93.60      A16S
ATOM  29967  O2* G   A1417     176.133  63.355 -26.738  1.00 93.60      A16S
ATOM  29968  C3* G   A1417     173.970  64.430 -27.133  1.00 93.60      A16S
ATOM  29969  O3* G   A1417     173.769  63.428 -28.122  1.00 93.60      A16S
ATOM  29970  P    A   A1418     172.829  62.163 -27.806  1.00131.96      A16S
ATOM  29971  O1P A   A1418     171.810  62.104 -28.888  1.00103.68      A16S
ATOM  29972  O2P A   A1418     172.392  62.206 -26.383  1.00103.68      A16S
ATOM  29973  O5* A   A1418     173.820  60.930 -27.981  1.00131.96      A16S
ATOM  29974  C5* A   A1418     174.671  60.824 -29.140  1.00131.96      A16S
ATOM  29975  C4* A   A1418     175.723  59.766 -28.920  1.00131.96      A16S
ATOM  29976  O4* A   A1418     176.708  60.228 -27.957  1.00131.96      A16S
ATOM  29977  C1* A   A1418     177.122  59.147 -27.137  1.00131.96      A16S
ATOM  29978  N9   A   A1418     176.732  59.441 -25.757  1.00103.68      A16S
ATOM  29979  C4   A   A1418     177.326  58.958 -24.615  1.00103.68      A16S
ATOM  29980  N3   A   A1418     178.392  58.147 -24.531  1.00103.68      A16S
ATOM  29981  C2   A   A1418     178.680  57.884 -23.259  1.00103.68      A16S
ATOM  29982  N1   A   A1418     178.072  58.307 -22.147  1.00103.68      A16S
ATOM  29983  C6   A   A1418     177.004  59.121 -22.267  1.00103.68      A16S
ATOM  29984  N6   A   A1418     176.397  59.543 -21.157  1.00103.68      A16S
ATOM  29985  C5   A   A1418     176.596  59.476 -23.562  1.00103.68      A16S
ATOM  29986  N7   A   A1418     175.568  60.281 -24.026  1.00103.68      A16S
ATOM  29987  C8   A   A1418     175.692  60.230 -25.329  1.00103.68      A16S
ATOM  29988  C2* A   A1418     176.427  57.886 -27.652  1.00131.96      A16S
ATOM  29989  O2* A   A1418     177.287  57.212 -28.548  1.00131.96      A16S
ATOM  29990  C3* A   A1418     175.194  58.472 -28.330  1.00131.96      A16S
ATOM  29991  O3* A   A1418     174.616  57.629 -29.316  1.00131.96      A16S
ATOM  29992  P    G   A1419     173.189  56.943 -29.027  1.00160.47      A16S
ATOM  29993  O1P G   A1419     172.914  56.010 -30.149  1.00154.76      A16S
ATOM  29994  O2P G   A1419     172.205  58.008 -28.706  1.00154.76      A16S
ATOM  29995  O5* G   A1419     173.438  56.092 -27.702  1.00160.47      A16S
ATOM  29996  C5* G   A1419     174.477  55.096 -27.654  1.00160.47      A16S
ATOM  29997  C4* G   A1419     174.783  54.712 -26.226  1.00160.47      A16S
ATOM  29998  O4* G   A1419     175.301  55.862 -25.510  1.00160.47      A16S
ATOM  29999  C1* G   A1419     174.892  55.802 -24.154  1.00160.47      A16S
ATOM  30000  N9   G   A1419     174.124  57.004 -23.849  1.00154.76      A16S
ATOM  30001  C4   G   A1419     173.907  57.545 -22.603  1.00154.76      A16S
ATOM  30002  N3   G   A1419     174.380  57.064 -21.434  1.00154.76      A16S
ATOM  30003  C2   G   A1419     173.988  57.796 -20.403  1.00154.76      A16S
ATOM  30004  N2   G   A1419     174.362  57.459 -19.161  1.00154.76      A16S
ATOM  30005  N1   G   A1419     173.198  58.912 -20.511  1.00154.76      A16S
ATOM  30006  C6   G   A1419     172.698  59.426 -21.702  1.00154.76      A16S
ATOM  30007  O6   G   A1419     171.980  60.438 -21.687  1.00154.76      A16S
ATOM  30008  C5   G   A1419     173.112  58.649 -22.818  1.00154.76      A16S
ATOM  30009  N7   G   A1419     172.840  58.805 -24.171  1.00154.76      A16S
ATOM  30010  C8   G   A1419     173.461  57.810 -24.742  1.00154.76      A16S
ATOM  30011  C2* G   A1419     174.073  54.523 -23.965  1.00160.47      A16S
ATOM  30012  O2* G   A1419     174.900  53.505 -23.436  1.00160.47      A16S
ATOM  30013  C3* G   A1419     173.608  54.232 -25.388  1.00160.47      A16S
ATOM  30014  O3* G   A1419     173.346  52.846 -25.594  1.00160.47      A16S
ATOM  30015  P    C   A1420     171.857  52.275 -25.375  1.00132.58      A16S
ATOM  30016  O1P C   A1420     171.871  50.833 -25.729  1.00194.28      A16S
ATOM  30017  O2P C   A1420     170.898  53.185 -26.051  1.00194.28      A16S
ATOM  30018  O5* C   A1420     171.632  52.394 -23.804  1.00132.58      A16S
ATOM  30019  C5* C   A1420     172.466  51.667 -22.895  1.00132.58      A16S
ATOM  30020  C4* C   A1420     172.181  52.079 -21.475  1.00132.58      A16S
ATOM  30021  O4* C   A1420     172.642  53.436 -21.240  1.00132.58      A16S
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ATOM  30022  C1* C   A1420     171.804  54.064 -20.280  1.00132.58      A16S
ATOM  30023  N1  C   A1420     171.223  55.291 -20.864  1.00194.28      A16S
ATOM  30024  C6  C   A1420     170.992  55.394 -22.210  1.00194.28      A16S
ATOM  30025  C2  C   A1420     170.886  56.354 -20.007  1.00194.28      A16S
ATOM  30026  O2  C   A1420     171.130  56.255 -18.792  1.00194.28      A16S
ATOM  30027  N3  C   A1420     170.306  57.461 -20.526  1.00194.28      A16S
ATOM  30028  C4  C   A1420     170.068  57.539 -21.838  1.00194.28      A16S
ATOM  30029  N4  C   A1420     169.481  58.646 -22.302  1.00194.28      A16S
ATOM  30030  C5  C   A1420     170.420  56.487 -22.733  1.00194.28      A16S
ATOM  30031  C2* C   A1420     170.728  53.055 -19.870  1.00132.58      A16S
ATOM  30032  O2* C   A1420     171.092  52.434 -18.651  1.00132.58      A16S
ATOM  30033  C3* C   A1420     170.719  52.106 -21.067  1.00132.58      A16S
ATOM  30034  O3* C   A1420     170.212  50.814 -20.760  1.00132.58      A16S
ATOM  30035  P   G   A1421     168.649  50.501 -20.989  1.00192.31      A16S
ATOM  30036  O1P G   A1421     168.480  49.029 -20.894  1.00201.30      A16S
ATOM  30037  O2P G   A1421     168.192  51.212 -22.214  1.00201.30      A16S
ATOM  30038  O5* G   A1421     167.944  51.166 -19.722  1.00192.31      A16S
ATOM  30039  C5* G   A1421     168.214  50.677 -18.392  1.00192.31      A16S
ATOM  30040  C4* G   A1421     167.575  51.569 -17.352  1.00192.31      A16S
ATOM  30041  O4* G   A1421     168.237  52.861 -17.324  1.00192.31      A16S
ATOM  30042  C1* G   A1421     167.294  53.876 -17.006  1.00192.31      A16S
ATOM  30043  N9  G   A1421     167.231  54.826 -18.118  1.00201.30      A16S
ATOM  30044  C4  G   A1421     166.675  56.087 -18.089  1.00201.30      A16S
ATOM  30045  N3  G   A1421     166.107  56.682 -17.016  1.00201.30      A16S
ATOM  30046  C2  G   A1421     165.650  57.889 -17.305  1.00201.30      A16S
ATOM  30047  N2  G   A1421     165.061  58.626 -16.352  1.00201.30      A16S
ATOM  30048  N1  G   A1421     165.738  58.464 -18.549  1.00201.30      A16S
ATOM  30049  C6  G   A1421     166.317  57.870 -19.668  1.00201.30      A16S
ATOM  30050  O6  G   A1421     166.344  58.478 -20.745  1.00201.30      A16S
ATOM  30051  C5  G   A1421     166.816  56.578 -19.371  1.00201.30      A16S
ATOM  30052  N7  G   A1421     167.459  55.656 -20.185  1.00201.30      A16S
ATOM  30053  C8  G   A1421     167.689  54.637 -19.402  1.00201.30      A16S
ATOM  30054  C2* G   A1421     165.946  53.194 -16.766  1.00192.31      A16S
ATOM  30055  O2* G   A1421     165.761  52.971 -15.381  1.00192.31      A16S
ATOM  30056  C3* G   A1421     166.108  51.904 -17.561  1.00192.31      A16S
ATOM  30057  O3* G   A1421     165.242  50.876 -17.110  1.00192.31      A16S
ATOM  30058  P   G   A1422     163.809  50.690 -17.812  1.00165.04      A16S
ATOM  30059  O1P G   A1422     163.226  49.434 -17.270  1.00159.18      A16S
ATOM  30060  O2P G   A1422     163.967  50.853 -19.283  1.00159.18      A16S
ATOM  30061  O5* G   A1422     162.954  51.918 -17.265  1.00165.04      A16S
ATOM  30062  C5* G   A1422     162.528  51.959 -15.891  1.00165.04      A16S
ATOM  30063  C4* G   A1422     161.719  53.206 -15.620  1.00165.04      A16S
ATOM  30064  O4* G   A1422     162.573  54.377 -15.718  1.00165.04      A16S
ATOM  30065  C1* G   A1422     161.833  55.466 -16.251  1.00165.04      A16S
ATOM  30066  N9  G   A1422     162.377  55.796 -17.566  1.00159.18      A16S
ATOM  30067  C4  G   A1422     162.112  56.931 -18.299  1.00159.18      A16S
ATOM  30068  N3  G   A1422     161.330  57.962 -17.912  1.00159.18      A16S
ATOM  30069  C2  G   A1422     161.255  58.900 -18.839  1.00159.18      A16S
ATOM  30070  N2  G   A1422     160.523  60.001 -18.620  1.00159.18      A16S
ATOM  30071  N1  G   A1422     161.894  58.829 -20.051  1.00159.18      A16S
ATOM  30072  C6  G   A1422     162.702  57.776 -20.471  1.00159.18      A16S
ATOM  30073  O6  G   A1422     163.228  57.809 -21.590  1.00159.18      A16S
ATOM  30074  C5  G   A1422     162.795  56.767 -19.484  1.00159.18      A16S
ATOM  30075  N7  G   A1422     163.489  55.566 -19.493  1.00159.18      A16S
ATOM  30076  C8  G   A1422     163.218  55.028 -18.336  1.00159.18      A16S
ATOM  30077  C2* G   A1422     160.389  54.997 -16.405  1.00165.04      A16S
ATOM  30078  O2* G   A1422     159.650  55.319 -15.243  1.00165.04      A16S
ATOM  30079  C3* G   A1422     160.581  53.500 -16.585  1.00165.04      A16S
ATOM  30080  O3* G   A1422     159.394  52.768 -16.334  1.00165.04      A16S
ATOM  30081  P   G   A1423     158.307  52.613 -17.510  1.00150.95      A16S
ATOM  30082  O1P G   A1423     157.364  51.533 -17.117  1.00137.71      A16S
ATOM  30083  O2P G   A1423     159.034  52.517 -18.804  1.00137.71      A16S
ATOM  30084  O5* G   A1423     157.523  54.001 -17.485  1.00150.95      A16S
ATOM  30085  C5* G   A1423     156.988  54.520 -16.252  1.00150.95      A16S
ATOM  30086  C4* G   A1423     156.535  55.951 -16.429  1.00150.95      A16S
ATOM  30087  O4* G   A1423     157.665  56.772 -16.830  1.00150.95      A16S
ATOM  30088  C1* G   A1423     157.229  57.790 -17.720  1.00150.95      A16S
ATOM  30089  N9  G   A1423     157.934  57.632 -18.994  1.00137.71      A16S
ATOM  30090  C4  G   A1423     157.852  58.472 -20.085  1.00137.71      A16S
ATOM  30091  N3  G   A1423     157.106  59.596 -20.167  1.00137.71      A16S
ATOM  30092  C2  G   A1423     157.230  60.187 -21.343  1.00137.71      A16S
ATOM  30093  N2  G   A1423     156.559  61.323 -21.591  1.00137.71      A16S
ATOM  30094  N1  G   A1423     158.022  59.712 -22.361  1.00137.71      A16S
ATOM  30095  C6  G   A1423     158.800  58.559 -22.301  1.00137.71      A16S
ATOM  30096  O6  G   A1423     159.482  58.223 -23.280  1.00137.71      A16S
ATOM  30097  C5  G   A1423     158.677  57.914 -21.041  1.00137.71      A16S
ATOM  30098  N7  G   A1423     159.270  56.752 -20.563  1.00137.71      A16S
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ATOM	30099	C8	G	A1423	158.803	56.624	-19.350	1.00137.71	A16S
ATOM	30100	C2*	G	A1423	155.709	57.664	-17.857	1.00150.95	A16S
ATOM	30101	O2*	G	A1423	155.080	58.559	-16.957	1.00150.95	A16S
ATOM	30102	C3*	G	A1423	155.488	56.196	-17.504	1.00150.95	A16S
ATOM	30103	O3*	G	A1423	154.168	55.921	-17.044	1.00150.95	A16S
ATOM	30104	P	C	A1424	153.023	55.529	-18.107	1.00151.74	A16S
ATOM	30105	O1P	C	A1424	151.783	55.235	-17.342	1.00127.86	A16S
ATOM	30106	O2P	C	A1424	153.557	54.515	-19.058	1.00127.86	A16S
ATOM	30107	O5*	C	A1424	152.795	56.885	-18.909	1.00151.74	A16S
ATOM	30108	C5*	C	A1424	152.408	58.082	-18.216	1.00151.74	A16S
ATOM	30109	C4*	C	A1424	152.246	59.226	-19.184	1.00151.74	A16S
ATOM	30110	O4*	C	A1424	153.536	59.616	-19.721	1.00151.74	A16S
ATOM	30111	C1*	C	A1424	153.371	60.089	-21.047	1.00151.74	A16S
ATOM	30112	N1	C	A1424	154.168	59.258	-21.962	1.00127.86	A16S
ATOM	30113	C6	C	A1424	154.623	58.024	-21.591	1.00127.86	A16S
ATOM	30114	C2	C	A1424	154.445	59.757	-23.239	1.00127.86	A16S
ATOM	30115	O2	C	A1424	154.024	60.883	-23.548	1.00127.86	A16S
ATOM	30116	N3	C	A1424	155.160	59.003	-24.102	1.00127.86	A16S
ATOM	30117	C4	C	A1424	155.597	57.799	-23.732	1.00127.86	A16S
ATOM	30118	N4	C	A1424	156.301	57.091	-24.619	1.00127.86	A16S
ATOM	30119	C5	C	A1424	155.333	57.267	-22.436	1.00127.86	A16S
ATOM	30120	C2*	C	A1424	151.886	60.008	-21.393	1.00151.74	A16S
ATOM	30121	O2*	C	A1424	151.294	61.273	-21.190	1.00151.74	A16S
ATOM	30122	C3*	C	A1424	151.402	58.947	-20.415	1.00151.74	A16S
ATOM	30123	O3*	C	A1424	150.011	59.039	-20.160	1.00151.74	A16S
ATOM	30124	P	U	A1425	148.989	58.192	-21.065	1.00 99.68	A16S
ATOM	30125	O1P	U	A1425	147.613	58.500	-20.594	1.00161.30	A16S
ATOM	30126	O2P	U	A1425	149.450	56.781	-21.120	1.00161.30	A16S
ATOM	30127	O5*	U	A1425	149.166	58.819	-22.515	1.00 99.68	A16S
ATOM	30128	C5*	U	A1425	148.857	60.199	-22.751	1.00 99.68	A16S
ATOM	30129	C4*	U	A1425	149.114	60.549	-24.190	1.00 99.68	A16S
ATOM	30130	O4*	U	A1425	150.533	60.467	-24.474	1.00 99.68	A16S
ATOM	30131	C1*	U	A1425	150.722	60.051	-25.812	1.00 99.68	A16S
ATOM	30132	N1	U	A1425	151.574	58.853	-25.837	1.00161.30	A16S
ATOM	30133	C6	U	A1425	151.586	57.938	-24.808	1.00161.30	A16S
ATOM	30134	C2	U	A1425	152.366	58.675	-26.953	1.00161.30	A16S
ATOM	30135	O2	U	A1425	152.388	59.466	-27.879	1.00161.30	A16S
ATOM	30136	N3	U	A1425	153.132	57.537	-26.949	1.00161.30	A16S
ATOM	30137	C4	U	A1425	153.189	56.579	-25.964	1.00161.30	A16S
ATOM	30138	O4	U	A1425	153.914	55.593	-26.121	1.00161.30	A16S
ATOM	30139	C5	U	A1425	152.346	56.837	-24.832	1.00161.30	A16S
ATOM	30140	C2*	U	A1425	149.346	59.822	-26.437	1.00 99.68	A16S
ATOM	30141	O2*	U	A1425	148.986	60.964	-27.183	1.00 99.68	A16S
ATOM	30142	C3*	U	A1425	148.473	59.621	-25.204	1.00 99.68	A16S
ATOM	30143	O3*	U	A1425	147.107	59.946	-25.424	1.00 99.68	A16S
ATOM	30144	P	C	A1426	146.141	58.864	-26.113	1.00 85.74	A16S
ATOM	30145	O1P	C	A1426	144.757	59.403	-26.064	1.00122.70	A16S
ATOM	30146	O2P	C	A1426	146.431	57.520	-25.547	1.00122.70	A16S
ATOM	30147	O5*	C	A1426	146.613	58.880	-27.628	1.00 85.74	A16S
ATOM	30148	C5*	C	A1426	146.590	60.103	-28.369	1.00 85.74	A16S
ATOM	30149	C4*	C	A1426	147.263	59.916	-29.695	1.00 85.74	A16S
ATOM	30150	O4*	C	A1426	148.685	59.712	-29.518	1.00 85.74	A16S
ATOM	30151	C1*	C	A1426	149.161	58.832	-30.518	1.00 85.74	A16S
ATOM	30152	N1	C	A1426	149.835	57.693	-29.872	1.00122.70	A16S
ATOM	30153	C6	C	A1426	149.604	57.384	-28.562	1.00122.70	A16S
ATOM	30154	C2	C	A1426	150.733	56.931	-30.627	1.00122.70	A16S
ATOM	30155	O2	C	A1426	150.910	57.218	-31.818	1.00122.70	A16S
ATOM	30156	N3	C	A1426	151.385	55.903	-30.043	1.00122.70	A16S
ATOM	30157	C4	C	A1426	151.167	55.621	-28.759	1.00122.70	A16S
ATOM	30158	N4	C	A1426	151.851	54.608	-28.219	1.00122.70	A16S
ATOM	30159	C5	C	A1426	150.243	56.367	-27.970	1.00122.70	A16S
ATOM	30160	C2*	C	A1426	147.975	58.424	-31.395	1.00 85.74	A16S
ATOM	30161	O2*	C	A1426	147.949	59.221	-32.563	1.00 85.74	A16S
ATOM	30162	C3*	C	A1426	146.797	58.703	-30.471	1.00 85.74	A16S
ATOM	30163	O3*	C	A1426	145.600	58.984	-31.172	1.00 85.74	A16S
ATOM	30164	P	U	A1427	144.622	57.782	-31.577	1.00106.57	A16S
ATOM	30165	O1P	U	A1427	143.361	58.410	-32.065	1.00116.93	A16S
ATOM	30166	O2P	U	A1427	144.571	56.813	-30.452	1.00116.93	A16S
ATOM	30167	O5*	U	A1427	145.375	57.096	-32.802	1.00106.57	A16S
ATOM	30168	C5*	U	A1427	145.517	57.792	-34.057	1.00106.57	A16S
ATOM	30169	C4*	U	A1427	146.302	56.956	-35.038	1.00106.57	A16S
ATOM	30170	O4*	U	A1427	147.691	56.897	-34.628	1.00106.57	A16S
ATOM	30171	C1*	U	A1427	148.220	55.615	-34.915	1.00106.57	A16S
ATOM	30172	N1	U	A1427	148.611	54.982	-33.645	1.00116.93	A16S
ATOM	30173	C6	U	A1427	148.008	55.330	-32.458	1.00116.93	A16S
ATOM	30174	C2	U	A1427	149.600	54.017	-33.682	1.00116.93	A16S
ATOM	30175	O2	U	A1427	150.168	53.681	-34.710	1.00116.93	A16S

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ATOM  30176  N3  U   A1427     149.903  53.457 -32.467  1.00116.93      A16S
ATOM  30177  C4  U   A1427     149.336  53.756 -31.249  1.00116.93      A16S
ATOM  30178  O4  U   A1427     149.718  53.161 -30.242  1.00116.93      A16S
ATOM  30179  C5  U   A1427     148.327  54.765 -31.294  1.00116.93      A16S
ATOM  30180  C2* U   A1427     147.136  54.818 -35.640  1.00106.57      A16S
ATOM  30181  O2* U   A1427     147.313  54.948 -37.034  1.00106.57      A16S
ATOM  30182  C3* U   A1427     145.872  55.504 -35.146  1.00106.57      A16S
ATOM  30183  O3* U   A1427     144.769  55.327 -36.021  1.00106.57      A16S
ATOM  30184  P   A   A1428     143.769  54.089 -35.787  1.00129.27      A16S
ATOM  30185  O1P A   A1428     142.613  54.248 -36.710  1.00117.64      A16S
ATOM  30186  O2P A   A1428     143.523  53.960 -34.324  1.00117.64      A16S
ATOM  30187  O5* A   A1428     144.623  52.827 -36.257  1.00129.27      A16S
ATOM  30188  C5* A   A1428     145.091  52.709 -37.618  1.00129.27      A16S
ATOM  30189  C4* A   A1428     145.935  51.466 -37.775  1.00129.27      A16S
ATOM  30190  O4* A   A1428     147.181  51.625 -37.055  1.00129.27      A16S
ATOM  30191  C1* A   A1428     147.564  50.387 -36.486  1.00129.27      A16S
ATOM  30192  N9  A   A1428     147.728  50.575 -35.043  1.00117.64      A16S
ATOM  30193  C4  A   A1428     148.569  49.867 -34.216  1.00117.64      A16S
ATOM  30194  N3  A   A1428     149.391  48.858 -34.553  1.00117.64      A16S
ATOM  30195  C2  A   A1428     150.057  48.420 -33.490  1.00117.64      A16S
ATOM  30196  N1  A   A1428     150.003  48.844 -32.228  1.00117.64      A16S
ATOM  30197  C6  A   A1428     149.170  49.861 -31.924  1.00117.64      A16S
ATOM  30198  N6  A   A1428     149.120  50.290 -30.666  1.00117.64      A16S
ATOM  30199  C5  A   A1428     148.405  50.410 -32.958  1.00117.64      A16S
ATOM  30200  N7  A   A1428     147.471  51.434 -32.980  1.00117.64      A16S
ATOM  30201  C8  A   A1428     147.098  51.490 -34.235  1.00117.64      A16S
ATOM  30202  C2* A   A1428     146.521  49.337 -36.877  1.00129.27      A16S
ATOM  30203  O2* A   A1428     146.990  48.601 -37.986  1.00129.27      A16S
ATOM  30204  C3* A   A1428     145.311  50.202 -37.212  1.00129.27      A16S
ATOM  30205  O3* A   A1428     144.451  49.597 -38.170  1.00129.27      A16S
ATOM  30206  P   C   A1429     143.129  48.830 -37.678  1.00 86.06      A16S
ATOM  30207  O1P C   A1429     142.289  48.537 -38.875  1.00123.14      A16S
ATOM  30208  O2P C   A1429     142.548  49.612 -36.552  1.00123.14      A16S
ATOM  30209  O5* C   A1429     143.688  47.450 -37.112  1.00 86.06      A16S
ATOM  30210  C5* C   A1429     144.263  46.486 -38.000  1.00 86.06      A16S
ATOM  30211  C4* C   A1429     145.119  45.504 -37.241  1.00 86.06      A16S
ATOM  30212  O4* C   A1429     146.239  46.186 -36.624  1.00 86.06      A16S
ATOM  30213  C1* C   A1429     146.622  45.494 -35.445  1.00 86.06      A16S
ATOM  30214  N1  C   A1429     146.546  46.409 -34.295  1.00123.14      A16S
ATOM  30215  C6  C   A1429     145.620  47.414 -34.253  1.00123.14      A16S
ATOM  30216  C2  C   A1429     147.437  46.221 -33.225  1.00123.14      A16S
ATOM  30217  O2  C   A1429     148.280  45.310 -33.289  1.00123.14      A16S
ATOM  30218  N3  C   A1429     147.355  47.035 -32.152  1.00123.14      A16S
ATOM  30219  C4  C   A1429     146.438  48.003 -32.117  1.00123.14      A16S
ATOM  30220  N4  C   A1429     146.386  48.774 -31.030  1.00123.14      A16S
ATOM  30221  C5  C   A1429     145.532  48.224 -33.194  1.00123.14      A16S
ATOM  30222  C2* C   A1429     145.674  44.311 -35.271  1.00 86.06      A16S
ATOM  30223  O2* C   A1429     146.274  43.143 -35.794  1.00 86.06      A16S
ATOM  30224  C3* C   A1429     144.472  44.754 -36.091  1.00 86.06      A16S
ATOM  30225  O3* C   A1429     143.731  43.629 -36.523  1.00 86.06      A16S
ATOM  30226  P   C   A1430     142.746  42.898 -35.489  1.00 93.81      A16S
ATOM  30227  O1P C   A1430     142.055  41.795 -36.213  1.00 76.90      A16S
ATOM  30228  O2P C   A1430     141.944  43.950 -34.793  1.00 76.90      A16S
ATOM  30229  O5* C   A1430     143.728  42.240 -34.425  1.00 93.81      A16S
ATOM  30230  C5* C   A1430     144.425  41.025 -34.723  1.00 93.81      A16S
ATOM  30231  C4* C   A1430     144.959  40.410 -33.457  1.00 93.81      A16S
ATOM  30232  O4* C   A1430     145.985  41.270 -32.897  1.00 93.81      A16S
ATOM  30233  C1* C   A1430     145.939  41.208 -31.481  1.00 93.81      A16S
ATOM  30234  N1  C   A1430     145.615  42.544 -30.952  1.00 76.90      A16S
ATOM  30235  C6  C   A1430     144.908  43.446 -31.695  1.00 76.90      A16S
ATOM  30236  C2  C   A1430     146.024  42.866 -29.658  1.00 76.90      A16S
ATOM  30237  O2  C   A1430     146.683  42.032 -29.011  1.00 76.90      A16S
ATOM  30238  N3  C   A1430     145.693  44.073 -29.143  1.00 76.90      A16S
ATOM  30239  C4  C   A1430     144.990  44.940 -29.876  1.00 76.90      A16S
ATOM  30240  N4  C   A1430     144.676  46.116 -29.330  1.00 76.90      A16S
ATOM  30241  C5  C   A1430     144.577  44.642 -31.200  1.00 76.90      A16S
ATOM  30242  C2* C   A1430     144.851  40.207 -31.100  1.00 93.81      A16S
ATOM  30243  O2* C   A1430     145.435  38.940 -30.890  1.00 93.81      A16S
ATOM  30244  C3* C   A1430     143.956  40.251 -32.328  1.00 93.81      A16S
ATOM  30245  O3* C   A1430     143.148  39.095 -32.452  1.00 93.81      A16S
ATOM  30246  P   C   A1431     141.743  39.030 -31.670  1.00 91.90      A16S
ATOM  30247  O1P C   A1431     141.061  37.771 -32.069  1.00 77.54      A16S
ATOM  30248  O2P C   A1431     141.037  40.331 -31.845  1.00 77.54      A16S
ATOM  30249  O5* C   A1431     142.184  38.889 -30.147  1.00 91.90      A16S
ATOM  30250  C5* C   A1431     143.039  37.809 -29.738  1.00 91.90      A16S
ATOM  30251  C4* C   A1431     143.424  37.954 -28.288  1.00 91.90      A16S
ATOM  30252  O4* C   A1431     144.269  39.118 -28.091  1.00 91.90      A16S
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ATOM  30253  C1* C   A1431     144.020  39.676 -26.807  1.00 91.90      A16S
ATOM  30254  N1  C   A1431     143.525  41.061 -26.961  1.00 77.54      A16S
ATOM  30255  C6  C   A1431     143.174  41.554 -28.186  1.00 77.54      A16S
ATOM  30256  C2  C   A1431     143.404  41.868 -25.818  1.00 77.54      A16S
ATOM  30257  O2  C   A1431     143.741  41.408 -24.714  1.00 77.54      A16S
ATOM  30258  N3  C   A1431     142.925  43.124 -25.946  1.00 77.54      A16S
ATOM  30259  C4  C   A1431     142.577  43.587 -27.146  1.00 77.54      A16S
ATOM  30260  N4  C   A1431     142.099  44.828 -27.223  1.00 77.54      A16S
ATOM  30261  C5  C   A1431     142.700  42.798 -28.321  1.00 77.54      A16S
ATOM  30262  C2* C   A1431     142.974  38.794 -26.127  1.00 91.90      A16S
ATOM  30263  O2* C   A1431     143.609  37.815 -25.330  1.00 91.90      A16S
ATOM  30264  C3* C   A1431     142.279  38.175 -27.325  1.00 91.90      A16S
ATOM  30265  O3* C   A1431     141.618  36.988 -26.978  1.00 91.90      A16S
ATOM  30266  P   G   A1432     140.052  37.041 -26.670  1.00 70.81      A16S
ATOM  30267  O1P G   A1432     139.705  35.739 -26.040  1.00 72.45      A16S
ATOM  30268  O2P G   A1432     139.333  37.493 -27.894  1.00 72.45      A16S
ATOM  30269  O5* G   A1432     139.906  38.186 -25.572  1.00 70.81      A16S
ATOM  30270  C5* G   A1432     140.373  37.980 -24.221  1.00 70.81      A16S
ATOM  30271  C4* G   A1432     139.994  39.152 -23.341  1.00 70.81      A16S
ATOM  30272  O4* G   A1432     140.632  40.357 -23.829  1.00 70.81      A16S
ATOM  30273  C1* G   A1432     139.784  41.467 -23.622  1.00 70.81      A16S
ATOM  30274  N9  G   A1432     139.464  42.038 -24.927  1.00 72.45      A16S
ATOM  30275  C4  G   A1432     139.293  43.366 -25.216  1.00 72.45      A16S
ATOM  30276  N3  G   A1432     139.404  44.386 -24.341  1.00 72.45      A16S
ATOM  30277  C2  G   A1432     139.167  45.550 -24.915  1.00 72.45      A16S
ATOM  30278  N2  G   A1432     139.241  46.675 -24.193  1.00 72.45      A16S
ATOM  30279  N1  G   A1432     138.840  45.701 -26.241  1.00 72.45      A16S
ATOM  30280  C6  G   A1432     138.711  44.662 -27.159  1.00 72.45      A16S
ATOM  30281  O6  G   A1432     138.383  44.904 -28.334  1.00 72.45      A16S
ATOM  30282  C5  G   A1432     138.978  43.411 -26.560  1.00 72.45      A16S
ATOM  30283  N7  G   A1432     138.966  42.139 -27.107  1.00 72.45      A16S
ATOM  30284  C8  G   A1432     139.261  41.357 -26.105  1.00 72.45      A16S
ATOM  30285  C2* G   A1432     138.555  40.966 -22.868  1.00 70.81      A16S
ATOM  30286  O2* G   A1432     138.798  41.089 -21.482  1.00 70.81      A16S
ATOM  30287  C3* G   A1432     138.520  39.501 -23.271  1.00 70.81      A16S
ATOM  30288  O3* G   A1432     137.892  38.701 -22.285  1.00 70.81      A16S
ATOM  30289  P   A   A1433     136.337  38.924 -21.937  1.00 54.54      A16S
ATOM  30290  O1P A   A1433     135.653  37.604 -22.003  1.00 50.32      A16S
ATOM  30291  O2P A   A1433     135.823  40.059 -22.752  1.00 50.32      A16S
ATOM  30292  O5* A   A1433     136.366  39.331 -20.398  1.00 54.54      A16S
ATOM  30293  C5* A   A1433     136.984  38.463 -19.432  1.00 54.54      A16S
ATOM  30294  C4* A   A1433     136.893  39.066 -18.059  1.00 54.54      A16S
ATOM  30295  O4* A   A1433     137.696  40.267 -18.006  1.00 54.54      A16S
ATOM  30296  C1* A   A1433     137.051  41.243 -17.200  1.00 54.54      A16S
ATOM  30297  N9  A   A1433     136.816  42.426 -18.033  1.00 50.32      A16S
ATOM  30298  C4  A   A1433     136.459  43.690 -17.626  1.00 50.32      A16S
ATOM  30299  N3  A   A1433     136.263  44.121 -16.372  1.00 50.32      A16S
ATOM  30300  C2  A   A1433     135.925  45.403 -16.371  1.00 50.32      A16S
ATOM  30301  N1  A   A1433     135.769  46.239 -17.403  1.00 50.32      A16S
ATOM  30302  C6  A   A1433     135.970  45.766 -18.649  1.00 50.32      A16S
ATOM  30303  N6  A   A1433     135.801  46.584 -19.688  1.00 50.32      A16S
ATOM  30304  C5  A   A1433     136.340  44.434 -18.782  1.00 50.32      A16S
ATOM  30305  N7  A   A1433     136.627  43.665 -19.894  1.00 50.32      A16S
ATOM  30306  C8  A   A1433     136.902  42.488 -19.401  1.00 50.32      A16S
ATOM  30307  C2* A   A1433     135.775  40.608 -16.638  1.00 54.54      A16S
ATOM  30308  O2* A   A1433     136.033  40.093 -15.347  1.00 54.54      A16S
ATOM  30309  C3* A   A1433     135.504  39.514 -17.660  1.00 54.54      A16S
ATOM  30310  O3* A   A1433     134.768  38.433 -17.138  1.00 54.54      A16S
ATOM  30311  P   A   A1434     133.188  38.380 -17.378  1.00 52.35      A16S
ATOM  30312  O1P A   A1434     132.685  37.132 -16.763  1.00 50.01      A16S
ATOM  30313  O2P A   A1434     132.904  38.659 -18.814  1.00 50.01      A16S
ATOM  30314  O5* A   A1434     132.669  39.607 -16.507  1.00 52.35      A16S
ATOM  30315  C5* A   A1434     132.946  39.669 -15.094  1.00 52.35      A16S
ATOM  30316  C4* A   A1434     132.491  40.987 -14.530  1.00 52.35      A16S
ATOM  30317  O4* A   A1434     133.357  42.052 -14.992  1.00 52.35      A16S
ATOM  30318  C1* A   A1434     132.599  43.230 -15.185  1.00 52.35      A16S
ATOM  30319  N9  A   A1434     132.725  43.647 -16.579  1.00 50.01      A16S
ATOM  30320  C4  A   A1434     132.705  44.944 -17.023  1.00 50.01      A16S
ATOM  30321  N3  A   A1434     132.621  46.055 -16.275  1.00 50.01      A16S
ATOM  30322  C2  A   A1434     132.592  47.129 -17.046  1.00 50.01      A16S
ATOM  30323  N1  A   A1434     132.635  47.215 -18.380  1.00 50.01      A16S
ATOM  30324  C6  A   A1434     132.734  46.079 -19.099  1.00 50.01      A16S
ATOM  30325  N6  A   A1434     132.798  46.167 -20.427  1.00 50.01      A16S
ATOM  30326  C5  A   A1434     132.770  44.871 -18.400  1.00 50.01      A16S
ATOM  30327  N7  A   A1434     132.865  43.553 -18.819  1.00 50.01      A16S
ATOM  30328  C8  A   A1434     132.843  42.867 -17.704  1.00 50.01      A16S
ATOM  30329  C2* A   A1434     131.143  42.917 -14.837  1.00 52.35      A16S
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ATOM  30330  O2* A  A1434     130.841  43.394 -13.546  1.00 52.35      A16S
ATOM  30331  C3* A  A1434     131.110  41.404 -14.975  1.00 52.35      A16S
ATOM  30332  O3* A  A1434     130.119  40.790 -14.191  1.00 52.35      A16S
ATOM  30333  P    G  A1435     128.760  40.324 -14.888  1.00 43.48      A16S
ATOM  30334  O1P G  A1435     127.856  39.768 -13.852  1.00 60.83      A16S
ATOM  30335  O2P G  A1435     129.104  39.513 -16.078  1.00 60.83      A16S
ATOM  30336  O5* G  A1435     128.120  41.689 -15.390  1.00 43.48      A16S
ATOM  30337  C5* G  A1435     127.737  42.713 -14.449  1.00 43.48      A16S
ATOM  30338  C4* G  A1435     127.322  43.961 -15.179  1.00 43.48      A16S
ATOM  30339  O4* G  A1435     128.470  44.487 -15.887  1.00 43.48      A16S
ATOM  30340  C1* G  A1435     128.060  45.011 -17.133  1.00 43.48      A16S
ATOM  30341  N9   G  A1435     128.717  44.237 -18.181  1.00 60.83      A16S
ATOM  30342  C4   G  A1435     129.195  44.703 -19.386  1.00 60.83      A16S
ATOM  30343  N3   G  A1435     129.180  45.985 -19.809  1.00 60.83      A16S
ATOM  30344  C2   G  A1435     129.677  46.108 -21.031  1.00 60.83      A16S
ATOM  30345  N2   G  A1435     129.739  47.310 -21.606  1.00 60.83      A16S
ATOM  30346  N1   G  A1435     130.151  45.061 -21.779  1.00 60.83      A16S
ATOM  30347  C6   G  A1435     130.181  43.735 -21.366  1.00 60.83      A16S
ATOM  30348  O6   G  A1435     130.629  42.862 -22.123  1.00 60.83      A16S
ATOM  30349  C5   G  A1435     129.653  43.585 -20.053  1.00 60.83      A16S
ATOM  30350  N7   G  A1435     129.496  42.449 -19.273  1.00 60.83      A16S
ATOM  30351  C8   G  A1435     128.948  42.885 -18.173  1.00 60.83      A16S
ATOM  30352  C2* G  A1435     126.530  44.913 -17.197  1.00 43.48      A16S
ATOM  30353  O2* G  A1435     125.938  46.114 -16.741  1.00 43.48      A16S
ATOM  30354  C3* G  A1435     126.251  43.762 -16.242  1.00 43.48      A16S
ATOM  30355  O3* G  A1435     124.939  43.818 -15.674  1.00 43.48      A16S
ATOM  30356  P    U  A1436     123.682  43.186 -16.467  1.00 43.78      A16S
ATOM  30357  O1P U  A1436     122.575  43.045 -15.493  1.00 59.29      A16S
ATOM  30358  O2P U  A1436     124.100  42.013 -17.273  1.00 59.29      A16S
ATOM  30359  O5* U  A1436     123.257  44.334 -17.475  1.00 43.78      A16S
ATOM  30360  C5* U  A1436     122.878  45.633 -16.994  1.00 43.78      A16S
ATOM  30361  C4* U  A1436     122.866  46.616 -18.134  1.00 43.78      A16S
ATOM  30362  O4* U  A1436     124.225  46.828 -18.597  1.00 43.78      A16S
ATOM  30363  C1* U  A1436     124.215  47.088 -19.988  1.00 43.78      A16S
ATOM  30364  N1   U  A1436     125.101  46.132 -20.668  1.00 59.29      A16S
ATOM  30365  C6   U  A1436     125.230  44.833 -20.242  1.00 59.29      A16S
ATOM  30366  C2   U  A1436     125.801  46.588 -21.765  1.00 59.29      A16S
ATOM  30367  O2   U  A1436     125.731  47.742 -22.162  1.00 59.29      A16S
ATOM  30368  N3   U  A1436     126.595  45.649 -22.378  1.00 59.29      A16S
ATOM  30369  C4   U  A1436     126.763  44.335 -22.004  1.00 59.29      A16S
ATOM  30370  O4   U  A1436     127.516  43.612 -22.653  1.00 59.29      A16S
ATOM  30371  C5   U  A1436     126.017  43.946 -20.854  1.00 59.29      A16S
ATOM  30372  C2* U  A1436     122.763  47.032 -20.470  1.00 43.78      A16S
ATOM  30373  O2* U  A1436     122.250  48.351 -20.482  1.00 43.78      A16S
ATOM  30374  C3* U  A1436     122.103  46.192 -19.385  1.00 43.78      A16S
ATOM  30375  O3* U  A1436     120.711  46.477 -19.287  1.00 43.78      A16S
ATOM  30376  P    C  A1437     119.660  45.607 -20.133  1.00 33.63      A16S
ATOM  30377  O1P C  A1437     118.309  46.192 -19.932  1.00 77.12      A16S
ATOM  30378  O2P C  A1437     119.893  44.181 -19.811  1.00 77.12      A16S
ATOM  30379  O5* C  A1437     120.079  45.853 -21.650  1.00 33.63      A16S
ATOM  30380  C5* C  A1437     119.853  47.129 -22.275  1.00 33.63      A16S
ATOM  30381  C4* C  A1437     120.458  47.155 -23.652  1.00 33.63      A16S
ATOM  30382  O4* C  A1437     121.880  46.929 -23.534  1.00 33.63      A16S
ATOM  30383  C1* C  A1437     122.340  46.183 -24.647  1.00 33.63      A16S
ATOM  30384  N1   C  A1437     123.009  44.959 -24.169  1.00 77.12      A16S
ATOM  30385  C6   C  A1437     122.707  44.413 -22.954  1.00 77.12      A16S
ATOM  30386  C2   C  A1437     123.960  44.355 -24.994  1.00 77.12      A16S
ATOM  30387  O2   C  A1437     124.229  44.880 -26.089  1.00 77.12      A16S
ATOM  30388  N3   C  A1437     124.566  43.220 -24.582  1.00 77.12      A16S
ATOM  30389  C4   C  A1437     124.263  42.697 -23.397  1.00 77.12      A16S
ATOM  30390  N4   C  A1437     124.895  41.587 -23.029  1.00 77.12      A16S
ATOM  30391  C5   C  A1437     123.304  43.292 -22.535  1.00 77.12      A16S
ATOM  30392  C2* C  A1437     121.145  45.887 -25.551  1.00 33.63      A16S
ATOM  30393  O2* C  A1437     121.121  46.789 -26.640  1.00 33.63      A16S
ATOM  30394  C3* C  A1437     119.980  46.060 -24.587  1.00 33.63      A16S
ATOM  30395  O3* C  A1437     118.793  46.415 -25.267  1.00 33.63      A16S
ATOM  30396  P    G  A1438     117.819  45.257 -25.789  1.00 46.37      A16S
ATOM  30397  O1P G  A1438     116.606  45.935 -26.311  1.00 59.49      A16S
ATOM  30398  O2P G  A1438     117.702  44.258 -24.695  1.00 59.49      A16S
ATOM  30399  O5* G  A1438     118.599  44.563 -26.990  1.00 46.37      A16S
ATOM  30400  C5* G  A1438     118.714  45.222 -28.252  1.00 46.37      A16S
ATOM  30401  C4* G  A1438     119.437  44.349 -29.244  1.00 46.37      A16S
ATOM  30402  O4* G  A1438     120.793  44.120 -28.798  1.00 46.37      A16S
ATOM  30403  C1* G  A1438     121.212  42.826 -29.194  1.00 46.37      A16S
ATOM  30404  N9   G  A1438     121.661  42.085 -28.017  1.00 59.49      A16S
ATOM  30405  C4   G  A1438     122.437  40.958 -28.037  1.00 59.49      A16S
ATOM  30406  N3   G  A1438     122.883  40.331 -29.141  1.00 59.49      A16S
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ATOM  30407  C2  G   A1438     123.632  39.290 -28.845  1.00 59.49      A16S
ATOM  30408  N2  G   A1438     124.155  38.548 -29.829  1.00 59.49      A16S
ATOM  30409  N1  G   A1438     123.926  38.900 -27.567  1.00 59.49      A16S
ATOM  30410  C6  G   A1438     123.480  39.533 -26.418  1.00 59.49      A16S
ATOM  30411  O6  G   A1438     123.815  39.106 -25.322  1.00 59.49      A16S
ATOM  30412  C5  G   A1438     122.666  40.644 -26.717  1.00 59.49      A16S
ATOM  30413  N7  G   A1438     122.020  41.540 -25.877  1.00 59.49      A16S
ATOM  30414  C8  G   A1438     121.430  42.373 -26.691  1.00 59.49      A16S
ATOM  30415  C2* G   A1438     120.059  42.163 -29.939  1.00 46.37      A16S
ATOM  30416  O2* G   A1438     120.274  42.317 -31.322  1.00 46.37      A16S
ATOM  30417  C3* G   A1438     118.865  42.960 -29.430  1.00 46.37      A16S
ATOM  30418  O3* G   A1438     117.783  42.959 -30.340  1.00 46.37      A16S
ATOM  30419  P   C   A1439     116.638  41.853 -30.181  1.00 54.79      A16S
ATOM  30420  O1P C   A1439     115.549  42.182 -31.134  1.00 74.47      A16S
ATOM  30421  O2P C   A1439     116.337  41.737 -28.735  1.00 74.47      A16S
ATOM  30422  O5* C   A1439     117.351  40.518 -30.665  1.00 54.79      A16S
ATOM  30423  C5* C   A1439     117.761  40.398 -32.021  1.00 54.79      A16S
ATOM  30424  C4* C   A1439     118.573  39.152 -32.222  1.00 54.79      A16S
ATOM  30425  O4* C   A1439     119.838  39.250 -31.525  1.00 54.79      A16S
ATOM  30426  C1* C   A1439     120.280  37.951 -31.175  1.00 54.79      A16S
ATOM  30427  N1  C   A1439     120.474  37.872 -29.716  1.00 74.47      A16S
ATOM  30428  C6  C   A1439     119.894  38.774 -28.868  1.00 74.47      A16S
ATOM  30429  C2  C   A1439     121.266  36.839 -29.210  1.00 74.47      A16S
ATOM  30430  O2  C   A1439     121.781  36.035 -30.002  1.00 74.47      A16S
ATOM  30431  N3  C   A1439     121.452  36.740 -27.880  1.00 74.47      A16S
ATOM  30432  C4  C   A1439     120.886  37.622 -27.062  1.00 74.47      A16S
ATOM  30433  N4  C   A1439     121.106  37.485 -25.759  1.00 74.47      A16S
ATOM  30434  C5  C   A1439     120.072  38.686 -27.546  1.00 74.47      A16S
ATOM  30435  C2* C   A1439     119.218  36.962 -31.647  1.00 54.79      A16S
ATOM  30436  O2* C   A1439     119.572  36.479 -32.927  1.00 54.79      A16S
ATOM  30437  C3* C   A1439     117.987  37.850 -31.718  1.00 54.79      A16S
ATOM  30438  O3* C   A1439     117.012  37.306 -32.585  1.00 54.79      A16S
ATOM  30439  P   C   A1440     115.876  36.351 -31.977  1.00 52.32      A16S
ATOM  30440  O1P C   A1440     114.896  36.119 -33.077  1.00 62.88      A16S
ATOM  30441  O2P C   A1440     115.415  36.920 -30.681  1.00 62.88      A16S
ATOM  30442  O5* C   A1440     116.645  34.991 -31.659  1.00 52.32      A16S
ATOM  30443  C5* C   A1440     117.144  34.167 -32.727  1.00 52.32      A16S
ATOM  30444  C4* C   A1440     117.912  32.988 -32.179  1.00 52.32      A16S
ATOM  30445  O4* C   A1440     119.042  33.467 -31.411  1.00 52.32      A16S
ATOM  30446  C1* C   A1440     119.276  32.601 -30.318  1.00 52.32      A16S
ATOM  30447  N1  C   A1440     119.053  33.343 -29.068  1.00 62.88      A16S
ATOM  30448  C6  C   A1440     118.333  34.502 -29.058  1.00 62.88      A16S
ATOM  30449  C2  C   A1440     119.572  32.826 -27.881  1.00 62.88      A16S
ATOM  30450  O2  C   A1440     120.239  31.780 -27.915  1.00 62.88      A16S
ATOM  30451  N3  C   A1440     119.336  33.471 -26.730  1.00 62.88      A16S
ATOM  30452  C4  C   A1440     118.618  34.589 -26.730  1.00 62.88      A16S
ATOM  30453  N4  C   A1440     118.395  35.184 -25.561  1.00 62.88      A16S
ATOM  30454  C5  C   A1440     118.093  35.147 -27.923  1.00 62.88      A16S
ATOM  30455  C2* C   A1440     118.292  31.442 -30.427  1.00 52.32      A16S
ATOM  30456  O2* C   A1440     118.953  30.386 -31.087  1.00 52.32      A16S
ATOM  30457  C3* C   A1440     117.161  32.074 -31.227  1.00 52.32      A16S
ATOM  30458  O3* C   A1440     116.383  31.108 -31.919  1.00 52.32      A16S
ATOM  30459  P   G   A1441     115.007  30.588 -31.273  1.00 54.37      A16S
ATOM  30460  O1P G   A1441     114.539  29.404 -32.029  1.00 69.17      A16S
ATOM  30461  O2P G   A1441     114.109  31.756 -31.123  1.00 69.17      A16S
ATOM  30462  O5* G   A1441     115.446  30.085 -29.831  1.00 54.37      A16S
ATOM  30463  C5* G   A1441     116.366  28.993 -29.685  1.00 54.37      A16S
ATOM  30464  C4* G   A1441     116.619  28.735 -28.228  1.00 54.37      A16S
ATOM  30465  O4* G   A1441     117.343  29.850 -27.658  1.00 54.37      A16S
ATOM  30466  C1* G   A1441     116.855  30.120 -26.355  1.00 54.37      A16S
ATOM  30467  N9  G   A1441     116.331  31.484 -26.343  1.00 69.17      A16S
ATOM  30468  C4  G   A1441     116.316  32.345 -25.279  1.00 69.17      A16S
ATOM  30469  N3  G   A1441     116.791  32.085 -24.053  1.00 69.17      A16S
ATOM  30470  C2  G   A1441     116.637  33.110 -23.240  1.00 69.17      A16S
ATOM  30471  N2  G   A1441     117.055  33.020 -21.974  1.00 69.17      A16S
ATOM  30472  N1  G   A1441     116.059  34.301 -23.603  1.00 69.17      A16S
ATOM  30473  C6  G   A1441     115.551  34.591 -24.861  1.00 69.17      A16S
ATOM  30474  O6  G   A1441     115.025  35.699 -25.083  1.00 69.17      A16S
ATOM  30475  C5  G   A1441     115.718  33.496 -25.746  1.00 69.17      A16S
ATOM  30476  N7  G   A1441     115.369  33.363 -27.082  1.00 69.17      A16S
ATOM  30477  C8  G   A1441     115.749  32.157 -27.393  1.00 69.17      A16S
ATOM  30478  C2* G   A1441     115.793  29.066 -26.021  1.00 54.37      A16S
ATOM  30479  O2* G   A1441     116.370  28.013 -25.278  1.00 54.37      A16S
ATOM  30480  C3* G   A1441     115.348  28.620 -27.409  1.00 54.37      A16S
ATOM  30481  O3* G   A1441     114.888  27.282 -27.432  1.00 54.37      A16S
ATOM  30482  P   G   A1442     113.319  26.973 -27.511  1.00120.87      A16S
ATOM  30483  O1P G   A1442     112.708  27.910 -28.491  1.00 99.52      A16S
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ATOM  30484  O2P G   A1442     112.798  26.915 -26.116  1.00 99.52      A16S
ATOM  30485  O5* G   A1442     113.290  25.501 -28.113  1.00120.87      A16S
ATOM  30486  C5* G   A1442     113.103  25.267 -29.525  1.00120.87      A16S
ATOM  30487  C4* G   A1442     114.256  24.461 -30.101  1.00120.87      A16S
ATOM  30488  O4* G   A1442     115.324  25.331 -30.540  1.00120.87      A16S
ATOM  30489  C1* G   A1442     116.538  24.609 -30.538  1.00120.87      A16S
ATOM  30490  N9  G   A1442     117.592  25.466 -30.007  1.00 99.52      A16S
ATOM  30491  C4  G   A1442     117.979  25.620 -28.695  1.00 99.52      A16S
ATOM  30492  N3  G   A1442     117.471  24.963 -27.631  1.00 99.52      A16S
ATOM  30493  C2  G   A1442     118.043  25.341 -26.498  1.00 99.52      A16S
ATOM  30494  N2  G   A1442     117.672  24.780 -25.341  1.00 99.52      A16S
ATOM  30495  N1  G   A1442     119.023  26.295 -26.416  1.00 99.52      A16S
ATOM  30496  C6  G   A1442     119.559  26.985 -27.498  1.00 99.52      A16S
ATOM  30497  O6  G   A1442     120.440  27.835 -27.314  1.00 99.52      A16S
ATOM  30498  C5  G   A1442     118.968  26.578 -28.718  1.00 99.52      A16S
ATOM  30499  N7  G   A1442     119.220  26.995 -30.016  1.00 99.52      A16S
ATOM  30500  C8  G   A1442     118.386  26.307 -30.744  1.00 99.52      A16S
ATOM  30501  C2* G   A1442     116.307  23.254 -29.863  1.00120.87      A16S
ATOM  30502  O2* G   A1442     116.304  22.269 -30.874  1.00120.87      A16S
ATOM  30503  C3* G   A1442     114.939  23.441 -29.198  1.00120.87      A16S
ATOM  30504  O3* G   A1442     114.207  22.214 -29.166  1.00120.87      A16S
ATOM  30505  P   G   A1443     113.981  21.446 -27.770  1.00101.53      A16S
ATOM  30506  O1P G   A1443     112.729  21.974 -27.170  1.00123.72      A16S
ATOM  30507  O2P G   A1443     115.247  21.478 -26.978  1.00123.72      A16S
ATOM  30508  O5* G   A1443     113.694  19.950 -28.231  1.00101.53      A16S
ATOM  30509  C5* G   A1443     114.513  18.859 -27.771  1.00101.53      A16S
ATOM  30510  C4* G   A1443     114.360  17.674 -28.690  1.00101.53      A16S
ATOM  30511  O4* G   A1443     112.954  17.361 -28.770  1.00101.53      A16S
ATOM  30512  C1* G   A1443     112.662  16.846 -30.044  1.00101.53      A16S
ATOM  30513  N9  G   A1443     111.400  17.418 -30.497  1.00123.72      A16S
ATOM  30514  C4  G   A1443     110.255  16.711 -30.753  1.00123.72      A16S
ATOM  30515  N3  G   A1443     110.119  15.374 -30.659  1.00123.72      A16S
ATOM  30516  C2  G   A1443     108.891  14.983 -30.943  1.00123.72      A16S
ATOM  30517  N2  G   A1443     108.579  13.681 -30.888  1.00123.72      A16S
ATOM  30518  N1  G   A1443     107.875  15.835 -31.297  1.00123.72      A16S
ATOM  30519  C6  G   A1443     107.989  17.215 -31.404  1.00123.72      A16S
ATOM  30520  O6  G   A1443     107.003  17.891 -31.731  1.00123.72      A16S
ATOM  30521  C5  G   A1443     109.309  17.652 -31.096  1.00123.72      A16S
ATOM  30522  N7  G   A1443     109.855  18.929 -31.073  1.00123.72      A16S
ATOM  30523  C8  G   A1443     111.099  18.741 -30.719  1.00123.72      A16S
ATOM  30524  C2* G   A1443     113.905  16.957 -30.933  1.00101.53      A16S
ATOM  30525  O2* G   A1443     114.443  15.660 -31.083  1.00101.53      A16S
ATOM  30526  C3* G   A1443     114.816  17.890 -30.128  1.00101.53      A16S
ATOM  30527  O3* G   A1443     116.176  17.443 -30.252  1.00101.53      A16S
ATOM  30528  P   A   A1446     117.369  18.494 -30.516  1.00108.59      A16S
ATOM  30529  O1P A   A1446     116.761  19.806 -30.840  1.00163.02      A16S
ATOM  30530  O2P A   A1446     118.320  17.875 -31.473  1.00163.02      A16S
ATOM  30531  O5* A   A1446     118.107  18.607 -29.107  1.00108.59      A16S
ATOM  30532  C5* A   A1446     117.519  19.359 -28.031  1.00108.59      A16S
ATOM  30533  C4* A   A1446     118.343  19.220 -26.779  1.00108.59      A16S
ATOM  30534  O4* A   A1446     119.627  19.858 -26.963  1.00108.59      A16S
ATOM  30535  C1* A   A1446     120.107  20.302 -25.707  1.00108.59      A16S
ATOM  30536  N9  A   A1446     120.702  21.633 -25.844  1.00163.02      A16S
ATOM  30537  C4  A   A1446     120.667  22.465 -26.938  1.00163.02      A16S
ATOM  30538  N3  A   A1446     120.034  22.256 -28.107  1.00163.02      A16S
ATOM  30539  C2  A   A1446     120.258  23.261 -28.946  1.00163.02      A16S
ATOM  30540  N1  A   A1446     120.990  24.369 -28.765  1.00163.02      A16S
ATOM  30541  C6  A   A1446     121.611  24.548 -27.577  1.00163.02      A16S
ATOM  30542  N6  A   A1446     122.350  25.646 -27.395  1.00163.02      A16S
ATOM  30543  C5  A   A1446     121.446  23.559 -26.601  1.00163.02      A16S
ATOM  30544  N7  A   A1446     121.932  23.439 -25.307  1.00163.02      A16S
ATOM  30545  C8  A   A1446     121.458  22.289 -24.900  1.00163.02      A16S
ATOM  30546  C2* A   A1446     118.990  20.161 -24.674  1.00108.59      A16S
ATOM  30547  O2* A   A1446     119.307  19.084 -23.814  1.00108.59      A16S
ATOM  30548  C3* A   A1446     117.766  19.905 -25.552  1.00108.59      A16S
ATOM  30549  O3* A   A1446     116.863  19.014 -24.917  1.00108.59      A16S
ATOM  30550  P   G   A1447     115.893  19.548 -23.755  1.00 64.90      A16S
ATOM  30551  O1P G   A1447     114.714  18.638 -23.735  1.00 87.67      A16S
ATOM  30552  O2P G   A1447     115.685  21.014 -23.956  1.00 87.67      A16S
ATOM  30553  O5* G   A1447     116.704  19.292 -22.403  1.00 64.90      A16S
ATOM  30554  C5* G   A1447     116.013  19.247 -21.145  1.00 64.90      A16S
ATOM  30555  C4* G   A1447     116.817  19.937 -20.075  1.00 64.90      A16S
ATOM  30556  O4* G   A1447     117.681  20.938 -20.659  1.00 64.90      A16S
ATOM  30557  C1* G   A1447     117.697  22.095 -19.840  1.00 64.90      A16S
ATOM  30558  N9  G   A1447     117.211  23.221 -20.638  1.00 87.67      A16S
ATOM  30559  C4  G   A1447     116.875  24.467 -20.174  1.00 87.67      A16S
ATOM  30560  N3  G   A1447     116.942  24.875 -18.894  1.00 87.67      A16S
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ATOM  30561  C2  G  A1447     116.528  26.114 -18.753  1.00 87.67      A16S
ATOM  30562  N2  G  A1447     116.513  26.666 -17.535  1.00 87.67      A16S
ATOM  30563  N1  G  A1447     116.093  26.899 -19.792  1.00 87.67      A16S
ATOM  30564  C6  G  A1447     116.017  26.498 -21.120  1.00 87.67      A16S
ATOM  30565  O6  G  A1447     115.602  27.282 -21.980  1.00 87.67      A16S
ATOM  30566  C5  G  A1447     116.452  25.169 -21.282  1.00 87.67      A16S
ATOM  30567  N7  G  A1447     116.532  24.388 -22.421  1.00 87.67      A16S
ATOM  30568  C8  G  A1447     116.991  23.244 -21.994  1.00 87.67      A16S
ATOM  30569  C2* G  A1447     116.849  21.809 -18.594  1.00 64.90      A16S
ATOM  30570  O2* G  A1447     117.658  21.456 -17.488  1.00 64.90      A16S
ATOM  30571  C3* G  A1447     115.947  20.684 -19.082  1.00 64.90      A16S
ATOM  30572  O3* G  A1447     115.518  19.826 -18.041  1.00 64.90      A16S
ATOM  30573  P   C  A1448     113.951  19.678 -17.735  1.00 82.56      A16S
ATOM  30574  O1P C  A1448     113.803  18.477 -16.881  1.00 64.77      A16S
ATOM  30575  O2P C  A1448     113.190  19.770 -19.013  1.00 64.77      A16S
ATOM  30576  O5* C  A1448     113.630  20.954 -16.840  1.00 82.56      A16S
ATOM  30577  C5* C  A1448     114.243  21.107 -15.547  1.00 82.56      A16S
ATOM  30578  C4* C  A1448     113.932  22.465 -14.971  1.00 82.56      A16S
ATOM  30579  O4* C  A1448     114.660  23.488 -15.691  1.00 82.56      A16S
ATOM  30580  C1* C  A1448     113.867  24.658 -15.789  1.00 82.56      A16S
ATOM  30581  N1  C  A1448     113.627  24.942 -17.214  1.00 64.77      A16S
ATOM  30582  C6  C  A1448     113.978  24.044 -18.179  1.00 64.77      A16S
ATOM  30583  C2  C  A1448     113.022  26.143 -17.563  1.00 64.77      A16S
ATOM  30584  O2  C  A1448     112.720  26.940 -16.670  1.00 64.77      A16S
ATOM  30585  N3  C  A1448     112.777  26.407 -18.864  1.00 64.77      A16S
ATOM  30586  C4  C  A1448     113.116  25.520 -19.797  1.00 64.77      A16S
ATOM  30587  N4  C  A1448     112.850  25.814 -21.069  1.00 64.77      A16S
ATOM  30588  C5  C  A1448     113.742  24.291 -19.469  1.00 64.77      A16S
ATOM  30589  C2* C  A1448     112.567  24.404 -15.027  1.00 82.56      A16S
ATOM  30590  O2* C  A1448     112.683  24.917 -13.714  1.00 82.56      A16S
ATOM  30591  C3* C  A1448     112.481  22.886 -15.071  1.00 82.56      A16S
ATOM  30592  O3* C  A1448     111.717  22.350 -14.015  1.00 82.56      A16S
ATOM  30593  P   C  A1449     110.224  21.845 -14.307  1.00 63.25      A16S
ATOM  30594  O1P C  A1449     109.796  21.076 -13.112  1.00 54.69      A16S
ATOM  30595  O2P C  A1449     110.190  21.210 -15.655  1.00 54.69      A16S
ATOM  30596  O5* C  A1449     109.370  23.185 -14.346  1.00 63.25      A16S
ATOM  30597  C5* C  A1449     109.263  23.998 -13.174  1.00 63.25      A16S
ATOM  30598  C4* C  A1449     108.518  25.268 -13.482  1.00 63.25      A16S
ATOM  30599  O4* C  A1449     109.347  26.183 -14.240  1.00 63.25      A16S
ATOM  30600  C1* C  A1449     108.536  26.916 -15.141  1.00 63.25      A16S
ATOM  30601  N1  C  A1449     108.954  26.605 -16.512  1.00 54.69      A16S
ATOM  30602  C6  C  A1449     109.668  25.479 -16.792  1.00 54.69      A16S
ATOM  30603  C2  C  A1449     108.584  27.469 -17.526  1.00 54.69      A16S
ATOM  30604  O2  C  A1449     107.983  28.505 -17.231  1.00 54.69      A16S
ATOM  30605  N3  C  A1449     108.892  27.164 -18.799  1.00 54.69      A16S
ATOM  30606  C4  C  A1449     109.568  26.049 -19.068  1.00 54.69      A16S
ATOM  30607  N4  C  A1449     109.840  25.769 -20.344  1.00 54.69      A16S
ATOM  30608  C5  C  A1449     109.993  25.166 -18.044  1.00 54.69      A16S
ATOM  30609  C2* C  A1449     107.091  26.476 -14.929  1.00 63.25      A16S
ATOM  30610  O2* C  A1449     106.443  27.365 -14.043  1.00 63.25      A16S
ATOM  30611  C3* C  A1449     107.286  25.093 -14.336  1.00 63.25      A16S
ATOM  30612  O3* C  A1449     106.175  24.671 -13.595  1.00 63.25      A16S
ATOM  30613  P   U  A1450     105.021  23.879 -14.349  1.00 45.22      A16S
ATOM  30614  O1P U  A1450     103.971  23.496 -13.368  1.00 72.60      A16S
ATOM  30615  O2P U  A1450     105.689  22.837 -15.176  1.00 72.60      A16S
ATOM  30616  O5* U  A1450     104.422  24.965 -15.342  1.00 45.22      A16S
ATOM  30617  C5* U  A1450     103.680  26.084 -14.846  1.00 45.22      A16S
ATOM  30618  C4* U  A1450     103.171  26.912 -15.992  1.00 45.22      A16S
ATOM  30619  O4* U  A1450     104.305  27.406 -16.752  1.00 45.22      A16S
ATOM  30620  C1* U  A1450     103.946  27.523 -18.116  1.00 45.22      A16S
ATOM  30621  N1  U  A1450     104.836  26.685 -18.936  1.00 72.60      A16S
ATOM  30622  C6  U  A1450     105.628  25.706 -18.387  1.00 72.60      A16S
ATOM  30623  C2  U  A1450     104.827  26.899 -20.305  1.00 72.60      A16S
ATOM  30624  O2  U  A1450     104.179  27.783 -20.834  1.00 72.60      A16S
ATOM  30625  N3  U  A1450     105.606  26.040 -21.033  1.00 72.60      A16S
ATOM  30626  C4  U  A1450     106.388  25.019 -20.553  1.00 72.60      A16S
ATOM  30627  O4  U  A1450     106.934  24.251 -21.350  1.00 72.60      A16S
ATOM  30628  C5  U  A1450     106.383  24.888 -19.128  1.00 72.60      A16S
ATOM  30629  C2* U  A1450     102.486  27.089 -18.247  1.00 45.22      A16S
ATOM  30630  O2* U  A1450     101.662  28.237 -18.180  1.00 45.22      A16S
ATOM  30631  C3* U  A1450     102.308  26.199 -17.025  1.00 45.22      A16S
ATOM  30632  O3* U  A1450     100.938  26.118 -16.630  1.00 45.22      A16S
ATOM  30633  P   A  A1451      99.890  25.260 -17.507  1.00 46.41      A16S
ATOM  30634  O1P A  A1451      99.479  24.089 -16.696  1.00114.11      A16S
ATOM  30635  O2P A  A1451     100.424  25.050 -18.861  1.00114.11      A16S
ATOM  30636  O5* A  A1451      98.626  26.222 -17.591  1.00 46.41      A16S
ATOM  30637  C5* A  A1451      97.661  26.138 -18.661  1.00 46.41      A16S
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ATOM	30638	C4*	A	A1451	97.257	27.535	-19.080	1.00	46.41	A16S
ATOM	30639	O4*	A	A1451	96.915	28.276	-17.885	1.00	46.41	A16S
ATOM	30640	C1*	A	A1451	97.553	29.538	-17.890	1.00	46.41	A16S
ATOM	30641	N9	A	A1451	98.391	29.607	-16.700	1.00	114.11	A16S
ATOM	30642	C4	A	A1451	98.271	30.520	-15.684	1.00	114.11	A16S
ATOM	30643	N3	A	A1451	97.405	31.544	-15.607	1.00	114.11	A16S
ATOM	30644	C2	A	A1451	97.560	32.202	-14.462	1.00	114.11	A16S
ATOM	30645	N1	A	A1451	98.413	31.966	-13.458	1.00	114.11	A16S
ATOM	30646	C6	A	A1451	99.268	30.924	-13.567	1.00	114.11	A16S
ATOM	30647	N6	A	A1451	100.111	30.675	-12.560	1.00	114.11	A16S
ATOM	30648	C5	A	A1451	99.212	30.156	-14.740	1.00	114.11	A16S
ATOM	30649	N7	A	A1451	99.934	29.051	-15.168	1.00	114.11	A16S
ATOM	30650	C8	A	A1451	99.415	28.771	-16.336	1.00	114.11	A16S
ATOM	30651	C2*	A	A1451	98.277	29.729	-19.222	1.00	46.41	A16S
ATOM	30652	O2*	A	A1451	97.556	30.605	-20.055	1.00	46.41	A16S
ATOM	30653	C3*	A	A1451	98.403	28.297	-19.724	1.00	46.41	A16S
ATOM	30654	O3*	A	A1451	98.372	28.140	-21.147	1.00	46.41	A16S
ATOM	30655	P	C	A1452	96.972	28.257	-21.972	1.00	49.00	A16S
ATOM	30656	O1P	C	A1452	96.158	29.412	-21.527	1.00	58.99	A16S
ATOM	30657	O2P	C	A1452	96.358	26.906	-21.977	1.00	58.99	A16S
ATOM	30658	O5*	C	A1452	97.465	28.541	-23.466	1.00	49.00	A16S
ATOM	30659	C5*	C	A1452	98.207	29.744	-23.786	1.00	49.00	A16S
ATOM	30660	C4*	C	A1452	99.499	29.423	-24.524	1.00	49.00	A16S
ATOM	30661	O4*	C	A1452	100.475	28.826	-23.633	1.00	49.00	A16S
ATOM	30662	C1*	C	A1452	101.074	27.731	-24.282	1.00	49.00	A16S
ATOM	30663	N1	C	A1452	101.485	26.734	-23.290	1.00	58.99	A16S
ATOM	30664	C6	C	A1452	100.726	26.479	-22.187	1.00	58.99	A16S
ATOM	30665	C2	C	A1452	102.674	26.037	-23.503	1.00	58.99	A16S
ATOM	30666	O2	C	A1452	103.344	26.282	-24.519	1.00	58.99	A16S
ATOM	30667	N3	C	A1452	103.063	25.110	-22.610	1.00	58.99	A16S
ATOM	30668	C4	C	A1452	102.311	24.864	-21.541	1.00	58.99	A16S
ATOM	30669	N4	C	A1452	102.735	23.932	-20.685	1.00	58.99	A16S
ATOM	30670	C5	C	A1452	101.095	25.559	-21.301	1.00	58.99	A16S
ATOM	30671	C2*	C	A1452	100.038	27.222	-25.277	1.00	49.00	A16S
ATOM	30672	O2*	C	A1452	100.691	26.521	-26.317	1.00	49.00	A16S
ATOM	30673	C3*	C	A1452	99.431	28.529	-25.760	1.00	49.00	A16S
ATOM	30674	O3*	C	A1452	100.326	29.025	-26.740	1.00	49.00	A16S
ATOM	30675	P	G	A1453	99.761	29.712	-28.072	1.00	55.80	A16S
ATOM	30676	O1P	G	A1453	98.280	29.599	-28.149	1.00	58.10	A16S
ATOM	30677	O2P	G	A1453	100.598	29.201	-29.188	1.00	58.10	A16S
ATOM	30678	O5*	G	A1453	100.107	31.241	-27.827	1.00	55.80	A16S
ATOM	30679	C5*	G	A1453	101.432	31.623	-27.426	1.00	55.80	A16S
ATOM	30680	C4*	G	A1453	101.393	32.938	-26.704	1.00	55.80	A16S
ATOM	30681	O4*	G	A1453	100.549	32.815	-25.539	1.00	55.80	A16S
ATOM	30682	C1*	G	A1453	100.990	33.728	-24.561	1.00	55.80	A16S
ATOM	30683	N9	G	A1453	100.934	33.084	-23.251	1.00	58.10	A16S
ATOM	30684	C4	G	A1453	101.650	31.993	-22.819	1.00	58.10	A16S
ATOM	30685	N3	G	A1453	102.575	31.317	-23.528	1.00	58.10	A16S
ATOM	30686	C2	G	A1453	103.074	30.303	-22.844	1.00	58.10	A16S
ATOM	30687	N2	G	A1453	104.014	29.533	-23.391	1.00	58.10	A16S
ATOM	30688	N1	G	A1453	102.690	29.972	-21.574	1.00	58.10	A16S
ATOM	30689	C6	G	A1453	101.736	30.651	-20.828	1.00	58.10	A16S
ATOM	30690	O6	G	A1453	101.449	30.261	-19.692	1.00	58.10	A16S
ATOM	30691	C5	G	A1453	101.204	31.749	-21.540	1.00	58.10	A16S
ATOM	30692	N7	G	A1453	100.246	32.678	-21.166	1.00	58.10	A16S
ATOM	30693	C8	G	A1453	100.122	33.450	-22.208	1.00	58.10	A16S
ATOM	30694	C2*	G	A1453	102.328	34.332	-25.013	1.00	55.80	A16S
ATOM	30695	O2*	G	A1453	102.126	35.663	-25.452	1.00	55.80	A16S
ATOM	30696	C3*	G	A1453	102.728	33.417	-26.166	1.00	55.80	A16S
ATOM	30697	O3*	G	A1453	103.394	34.166	-27.174	1.00	55.80	A16S
ATOM	30698	P	G	A1454	104.894	33.790	-27.592	1.00	38.53	A16S
ATOM	30699	O1P	G	A1454	105.290	34.797	-28.599	1.00	62.65	A16S
ATOM	30700	O2P	G	A1454	104.934	32.358	-27.959	1.00	62.65	A16S
ATOM	30701	O5*	G	A1454	105.742	34.001	-26.252	1.00	38.53	A16S
ATOM	30702	C5*	G	A1454	105.949	35.321	-25.719	1.00	38.53	A16S
ATOM	30703	C4*	G	A1454	105.933	35.306	-24.206	1.00	38.53	A16S
ATOM	30704	O4*	G	A1454	105.096	34.211	-23.754	1.00	38.53	A16S
ATOM	30705	C1*	G	A1454	105.626	33.656	-22.555	1.00	38.53	A16S
ATOM	30706	N9	G	A1454	106.138	32.316	-22.838	1.00	62.65	A16S
ATOM	30707	C4	G	A1454	106.578	31.402	-21.907	1.00	62.65	A16S
ATOM	30708	N3	G	A1454	106.565	31.568	-20.574	1.00	62.65	A16S
ATOM	30709	C2	G	A1454	107.074	30.531	-19.941	1.00	62.65	A16S
ATOM	30710	N2	G	A1454	107.126	30.539	-18.605	1.00	62.65	A16S
ATOM	30711	N1	G	A1454	107.566	29.415	-20.565	1.00	62.65	A16S
ATOM	30712	C6	G	A1454	107.596	29.220	-21.937	1.00	62.65	A16S
ATOM	30713	O6	G	A1454	108.072	28.178	-22.399	1.00	62.65	A16S
ATOM	30714	C5	G	A1454	107.040	30.331	-22.633	1.00	62.65	A16S

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ATOM  30715  N7  G   A1454     106.869  30.549 -23.994  1.00 62.65      A16S
ATOM  30716  C8  G   A1454     106.324  31.733 -24.068  1.00 62.65      A16S
ATOM  30717  C2* G   A1454     106.802  34.530 -22.140  1.00 38.53      A16S
ATOM  30718  O2* G   A1454     106.358  35.521 -21.228  1.00 38.53      A16S
ATOM  30719  C3* G   A1454     107.256  35.062 -23.493  1.00 38.53      A16S
ATOM  30720  O3* G   A1454     108.067  36.217 -23.361  1.00 38.53      A16S
ATOM  30721  P   G   A1455     109.651  36.044 -23.158  1.00 49.93      A16S
ATOM  30722  O1P G   A1455     110.276  37.380 -23.265  1.00 56.74      A16S
ATOM  30723  O2P G   A1455     110.129  34.935 -24.020  1.00 56.74      A16S
ATOM  30724  O5* G   A1455     109.795  35.588 -21.645  1.00 49.93      A16S
ATOM  30725  C5* G   A1455     109.361  36.438 -20.574  1.00 49.93      A16S
ATOM  30726  C4* G   A1455     109.682  35.792 -19.257  1.00 49.93      A16S
ATOM  30727  O4* G   A1455     108.921  34.560 -19.149  1.00 49.93      A16S
ATOM  30728  C1* G   A1455     109.714  33.567 -18.520  1.00 49.93      A16S
ATOM  30729  N9  G   A1455     109.935  32.461 -19.450  1.00 56.74      A16S
ATOM  30730  C4  G   A1455     110.430  31.226 -19.113  1.00 56.74      A16S
ATOM  30731  N3  G   A1455     110.771  30.826 -17.871  1.00 56.74      A16S
ATOM  30732  C2  G   A1455     111.210  29.585 -17.855  1.00 56.74      A16S
ATOM  30733  N2  G   A1455     111.566  29.034 -16.692  1.00 56.74      A16S
ATOM  30734  N1  G   A1455     111.324  28.799 -18.977  1.00 56.74      A16S
ATOM  30735  C6  G   A1455     110.985  29.195 -20.269  1.00 56.74      A16S
ATOM  30736  O6  G   A1455     111.134  28.413 -21.212  1.00 56.74      A16S
ATOM  30737  C5  G   A1455     110.496  30.523 -20.293  1.00 56.74      A16S
ATOM  30738  N7  G   A1455     110.045  31.297 -21.351  1.00 56.74      A16S
ATOM  30739  C8  G   A1455     109.721  32.436 -20.805  1.00 56.74      A16S
ATOM  30740  C2* G   A1455     111.047  34.204 -18.133  1.00 49.93      A16S
ATOM  30741  O2* G   A1455     111.020  34.621 -16.780  1.00 49.93      A16S
ATOM  30742  C3* G   A1455     111.130  35.351 -19.123  1.00 49.93      A16S
ATOM  30743  O3* G   A1455     111.993  36.372 -18.674  1.00 49.93      A16S
ATOM  30744  P   C   A1459     113.533  36.335 -19.113  1.00 49.24      A16S
ATOM  30745  O1P C   A1459     114.160  37.633 -18.757  1.00 65.89      A16S
ATOM  30746  O2P C   A1459     113.599  35.838 -20.515  1.00 65.89      A16S
ATOM  30747  O5* C   A1459     114.187  35.228 -18.185  1.00 49.24      A16S
ATOM  30748  C5* C   A1459     114.019  35.261 -16.761  1.00 49.24      A16S
ATOM  30749  C4* C   A1459     114.479  33.958 -16.168  1.00 49.24      A16S
ATOM  30750  O4* C   A1459     113.640  32.885 -16.666  1.00 49.24      A16S
ATOM  30751  C1* C   A1459     114.417  31.716 -16.823  1.00 49.24      A16S
ATOM  30752  N1  C   A1459     114.306  31.217 -18.198  1.00 65.89      A16S
ATOM  30753  C6  C   A1459     113.852  32.003 -19.216  1.00 65.89      A16S
ATOM  30754  C2  C   A1459     114.684  29.906 -18.443  1.00 65.89      A16S
ATOM  30755  O2  C   A1459     115.096  29.220 -17.498  1.00 65.89      A16S
ATOM  30756  N3  C   A1459     114.598  29.412 -19.692  1.00 65.89      A16S
ATOM  30757  C4  C   A1459     114.148  30.177 -20.679  1.00 65.89      A16S
ATOM  30758  N4  C   A1459     114.062  29.636 -21.896  1.00 65.89      A16S
ATOM  30759  C5  C   A1459     113.758  31.528 -20.464  1.00 65.89      A16S
ATOM  30760  C2* C   A1459     115.856  32.042 -16.444  1.00 49.24      A16S
ATOM  30761  O2* C   A1459     116.082  31.605 -15.126  1.00 49.24      A16S
ATOM  30762  C3* C   A1459     115.880  33.554 -16.582  1.00 49.24      A16S
ATOM  30763  O3* C   A1459     116.873  34.154 -15.769  1.00 49.24      A16S
ATOM  30764  P   A   A1460     118.351  34.370 -16.364  1.00 51.28      A16S
ATOM  30765  O1P A   A1460     119.133  35.100 -15.334  1.00 63.85      A16S
ATOM  30766  O2P A   A1460     118.223  34.939 -17.728  1.00 63.85      A16S
ATOM  30767  O5* A   A1460     118.926  32.890 -16.515  1.00 51.28      A16S
ATOM  30768  C5* A   A1460     119.067  32.043 -15.361  1.00 51.28      A16S
ATOM  30769  C4* A   A1460     119.480  30.649 -15.759  1.00 51.28      A16S
ATOM  30770  O4* A   A1460     118.431  30.015 -16.526  1.00 51.28      A16S
ATOM  30771  C1* A   A1460     119.006  29.096 -17.436  1.00 51.28      A16S
ATOM  30772  N9  A   A1460     118.565  29.438 -18.781  1.00 63.85      A16S
ATOM  30773  C4  A   A1460     118.896  28.762 -19.927  1.00 63.85      A16S
ATOM  30774  N3  A   A1460     119.661  27.663 -20.033  1.00 63.85      A16S
ATOM  30775  C2  A   A1460     119.783  27.295 -21.306  1.00 63.85      A16S
ATOM  30776  N1  A   A1460     119.263  27.857 -22.400  1.00 63.85      A16S
ATOM  30777  C6  A   A1460     118.487  28.959 -22.253  1.00 63.85      A16S
ATOM  30778  N6  A   A1460     117.952  29.526 -23.340  1.00 63.85      A16S
ATOM  30779  C5  A   A1460     118.286  29.447 -20.955  1.00 63.85      A16S
ATOM  30780  N7  A   A1460     117.567  30.527 -20.468  1.00 63.85      A16S
ATOM  30781  C8  A   A1460     117.765  30.476 -19.176  1.00 63.85      A16S
ATOM  30782  C2* A   A1460     120.526  29.169 -17.290  1.00 51.28      A16S
ATOM  30783  O2* A   A1460     121.002  28.109 -16.480  1.00 51.28      A16S
ATOM  30784  C3* A   A1460     120.711  30.529 -16.636  1.00 51.28      A16S
ATOM  30785  O3* A   A1460     121.910  30.574 -15.884  1.00 51.28      A16S
ATOM  30786  P   G   A1461     123.173  31.369 -16.471  1.00 56.98      A16S
ATOM  30787  O1P G   A1461     124.294  31.181 -15.509  1.00 61.14      A16S
ATOM  30788  O2P G   A1461     122.720  32.745 -16.821  1.00 61.14      A16S
ATOM  30789  O5* G   A1461     123.523  30.599 -17.816  1.00 56.98      A16S
ATOM  30790  C5* G   A1461     123.904  29.232 -17.781  1.00 56.98      A16S
ATOM  30791  C4* G   A1461     123.880  28.659 -19.166  1.00 56.98      A16S
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ATOM  30792  O4* G   A1461     122.525  28.674 -19.673  1.00 56.98      A16S
ATOM  30793  C1* G   A1461     122.535  28.919 -21.068  1.00 56.98      A16S
ATOM  30794  N9  G   A1461     121.822  30.167 -21.300  1.00 61.14      A16S
ATOM  30795  C4  G   A1461     121.379  30.636 -22.504  1.00 61.14      A16S
ATOM  30796  N3  G   A1461     121.489  30.003 -23.685  1.00 61.14      A16S
ATOM  30797  C2  G   A1461     120.984  30.719 -24.667  1.00 61.14      A16S
ATOM  30798  N2  G   A1461     120.996  30.242 -25.914  1.00 61.14      A16S
ATOM  30799  N1  G   A1461     120.426  31.955 -24.499  1.00 61.14      A16S
ATOM  30800  C6  G   A1461     120.310  32.622 -23.287  1.00 61.14      A16S
ATOM  30801  O6  G   A1461     119.797  33.740 -23.242  1.00 61.14      A16S
ATOM  30802  C5  G   A1461     120.833  31.870 -22.236  1.00 61.14      A16S
ATOM  30803  N7  G   A1461     120.910  32.163 -20.883  1.00 61.14      A16S
ATOM  30804  C8  G   A1461     121.495  31.120 -20.366  1.00 61.14      A16S
ATOM  30805  C2* G   A1461     123.996  29.026 -21.509  1.00 56.98      A16S
ATOM  30806  O2* G   A1461     124.415  27.778 -22.030  1.00 56.98      A16S
ATOM  30807  C3* G   A1461     124.677  29.424 -20.202  1.00 56.98      A16S
ATOM  30808  O3* G   A1461     126.047  29.074 -20.140  1.00 56.98      A16S
ATOM  30809  P   G   A1462     127.149  30.121 -20.638  1.00 70.05      A16S
ATOM  30810  O1P G   A1462     128.480  29.509 -20.368  1.00 71.76      A16S
ATOM  30811  O2P G   A1462     126.825  31.461 -20.079  1.00 71.76      A16S
ATOM  30812  O5* G   A1462     126.921  30.151 -22.210  1.00 70.05      A16S
ATOM  30813  C5* G   A1462     127.099  28.956 -22.981  1.00 70.05      A16S
ATOM  30814  C4* G   A1462     126.720  29.198 -24.417  1.00 70.05      A16S
ATOM  30815  O4* G   A1462     125.296  29.450 -24.507  1.00 70.05      A16S
ATOM  30816  C1* G   A1462     125.045  30.374 -25.548  1.00 70.05      A16S
ATOM  30817  N9  G   A1462     124.403  31.554 -24.975  1.00 71.76      A16S
ATOM  30818  C4  G   A1462     123.756  32.542 -25.677  1.00 71.76      A16S
ATOM  30819  N3  G   A1462     123.599  32.585 -27.013  1.00 71.76      A16S
ATOM  30820  C2  G   A1462     122.940  33.658 -27.397  1.00 71.76      A16S
ATOM  30821  N2  G   A1462     122.702  33.853 -28.695  1.00 71.76      A16S
ATOM  30822  N1  G   A1462     122.467  34.619 -26.539  1.00 71.76      A16S
ATOM  30823  C6  G   A1462     122.617  34.601 -25.158  1.00 71.76      A16S
ATOM  30824  O6  G   A1462     122.154  35.524 -24.474  1.00 71.76      A16S
ATOM  30825  C5  G   A1462     123.327  33.445 -24.729  1.00 71.76      A16S
ATOM  30826  N7  G   A1462     123.694  33.033 -23.453  1.00 71.76      A16S
ATOM  30827  C8  G   A1462     124.329  31.909 -23.647  1.00 71.76      A16S
ATOM  30828  C2* G   A1462     126.384  30.714 -26.202  1.00 70.05      A16S
ATOM  30829  O2* G   A1462     126.594  29.874 -27.315  1.00 70.05      A16S
ATOM  30830  C3* G   A1462     127.359  30.405 -25.079  1.00 70.05      A16S
ATOM  30831  O3* G   A1462     128.663  30.140 -25.565  1.00 70.05      A16S
ATOM  30832  P   C   A1463     129.665  31.365 -25.823  1.00 61.77      A16S
ATOM  30833  O1P C   A1463     130.945  30.793 -26.314  1.00 64.89      A16S
ATOM  30834  O2P C   A1463     129.668  32.267 -24.646  1.00 64.89      A16S
ATOM  30835  O5* C   A1463     128.987  32.120 -27.041  1.00 61.77      A16S
ATOM  30836  C5* C   A1463     128.925  31.468 -28.302  1.00 61.77      A16S
ATOM  30837  C4* C   A1463     128.357  32.379 -29.340  1.00 61.77      A16S
ATOM  30838  O4* C   A1463     126.953  32.595 -29.074  1.00 61.77      A16S
ATOM  30839  C1* C   A1463     126.599  33.904 -29.471  1.00 61.77      A16S
ATOM  30840  N1  C   A1463     126.238  34.664 -28.275  1.00 64.89      A16S
ATOM  30841  C6  C   A1463     126.808  34.387 -27.064  1.00 64.89      A16S
ATOM  30842  C2  C   A1463     125.324  35.701 -28.402  1.00 64.89      A16S
ATOM  30843  O2  C   A1463     124.805  35.909 -29.514  1.00 64.89      A16S
ATOM  30844  N3  C   A1463     125.028  36.454 -27.321  1.00 64.89      A16S
ATOM  30845  C4  C   A1463     125.612  36.196 -26.150  1.00 64.89      A16S
ATOM  30846  N4  C   A1463     125.317  36.982 -25.120  1.00 64.89      A16S
ATOM  30847  C5  C   A1463     126.530  35.123 -25.988  1.00 64.89      A16S
ATOM  30848  C2* C   A1463     127.836  34.546 -30.092  1.00 61.77      A16S
ATOM  30849  O2* C   A1463     127.826  34.355 -31.496  1.00 61.77      A16S
ATOM  30850  C3* C   A1463     128.940  33.774 -29.393  1.00 61.77      A16S
ATOM  30851  O3* C   A1463     130.179  33.857 -30.060  1.00 61.77      A16S
ATOM  30852  P   G   A1464     131.202  35.022 -29.647  1.00 61.79      A16S
ATOM  30853  O1P G   A1464     132.421  34.824 -30.473  1.00 73.57      A16S
ATOM  30854  O2P G   A1464     131.318  35.051 -28.160  1.00 73.57      A16S
ATOM  30855  O5* G   A1464     130.456  36.361 -30.101  1.00 61.79      A16S
ATOM  30856  C5* G   A1464     130.135  36.585 -31.487  1.00 61.79      A16S
ATOM  30857  C4* G   A1464     129.386  37.891 -31.675  1.00 61.79      A16S
ATOM  30858  O4* G   A1464     128.122  37.850 -30.966  1.00 61.79      A16S
ATOM  30859  C1* G   A1464     127.766  39.161 -30.551  1.00 61.79      A16S
ATOM  30860  N9  G   A1464     127.714  39.185 -29.094  1.00 73.57      A16S
ATOM  30861  C4  G   A1464     127.032  40.086 -28.322  1.00 73.57      A16S
ATOM  30862  N3  G   A1464     126.282  41.101 -28.778  1.00 73.57      A16S
ATOM  30863  C2  G   A1464     125.756  41.799 -27.794  1.00 73.57      A16S
ATOM  30864  N2  G   A1464     124.981  42.852 -28.069  1.00 73.57      A16S
ATOM  30865  N1  G   A1464     125.950  41.520 -26.467  1.00 73.57      A16S
ATOM  30866  C6  G   A1464     126.726  40.483 -25.978  1.00 73.57      A16S
ATOM  30867  O6  G   A1464     126.848  40.326 -24.762  1.00 73.57      A16S
ATOM  30868  C5  G   A1464     127.294  39.728 -27.021  1.00 73.57      A16S
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ATOM  30869  N7  G  A1464     128.127  38.621 -26.973  1.00 73.57      A16S
ATOM  30870  C8  G  A1464     128.347  38.332 -28.225  1.00 73.57      A16S
ATOM  30871  C2* G  A1464     128.850  40.110 -31.050  1.00 61.79      A16S
ATOM  30872  O2* G  A1464     128.474  40.665 -32.294  1.00 61.79      A16S
ATOM  30873  C3* G  A1464     130.036  39.168 -31.173  1.00 61.79      A16S
ATOM  30874  O3* G  A1464     131.008  39.696 -32.042  1.00 61.79      A16S
ATOM  30875  P    C  A1465     132.148  40.649 -31.442  1.00 56.09      A16S
ATOM  30876  O1P C  A1465     133.169  40.796 -32.497  1.00 66.96      A16S
ATOM  30877  O2P C  A1465     132.550  40.158 -30.093  1.00 66.96      A16S
ATOM  30878  O5* C  A1465     131.417  42.054 -31.281  1.00 56.09      A16S
ATOM  30879  C5* C  A1465     130.912  42.749 -32.433  1.00 56.09      A16S
ATOM  30880  C4* C  A1465     130.268  44.050 -32.024  1.00 56.09      A16S
ATOM  30881  O4* C  A1465     129.073  43.778 -31.254  1.00 56.09      A16S
ATOM  30882  C1* C  A1465     128.892  44.793 -30.278  1.00 56.09      A16S
ATOM  30883  N1   C  A1465     128.870  44.179 -28.931  1.00 66.96      A16S
ATOM  30884  C6   C  A1465     129.299  42.896 -28.731  1.00 66.96      A16S
ATOM  30885  C2   C  A1465     128.407  44.945 -27.845  1.00 66.96      A16S
ATOM  30886  O2   C  A1465     127.996  46.104 -28.050  1.00 66.96      A16S
ATOM  30887  N3   C  A1465     128.411  44.403 -26.605  1.00 66.96      A16S
ATOM  30888  C4   C  A1465     128.836  43.153 -26.425  1.00 66.96      A16S
ATOM  30889  N4   C  A1465     128.817  42.662 -25.186  1.00 66.96      A16S
ATOM  30890  C5   C  A1465     129.297  42.350 -27.508  1.00 66.96      A16S
ATOM  30891  C2* C  A1465     130.028  45.804 -30.448  1.00 56.09      A16S
ATOM  30892  O2* C  A1465     129.598  46.869 -31.271  1.00 56.09      A16S
ATOM  30893  C3* C  A1465     131.091  44.955 -31.124  1.00 56.09      A16S
ATOM  30894  O3* C  A1465     132.003  45.756 -31.841  1.00 56.09      A16S
ATOM  30895  P    C  A1466     133.347  46.254 -31.118  1.00 54.98      A16S
ATOM  30896  O1P C  A1466     134.036  47.142 -32.096  1.00 80.28      A16S
ATOM  30897  O2P C  A1466     134.072  45.085 -30.550  1.00 80.28      A16S
ATOM  30898  O5* C  A1466     132.821  47.149 -29.916  1.00 54.98      A16S
ATOM  30899  C5* C  A1466     132.278  48.439 -30.179  1.00 54.98      A16S
ATOM  30900  C4* C  A1466     131.801  49.069 -28.907  1.00 54.98      A16S
ATOM  30901  O4* C  A1466     130.817  48.197 -28.300  1.00 54.98      A16S
ATOM  30902  C1* C  A1466     130.900  48.295 -26.889  1.00 54.98      A16S
ATOM  30903  N1   C  A1466     131.210  46.959 -26.342  1.00 80.28      A16S
ATOM  30904  C6   C  A1466     132.029  46.101 -27.019  1.00 80.28      A16S
ATOM  30905  C2   C  A1466     130.659  46.579 -25.108  1.00 80.28      A16S
ATOM  30906  O2   C  A1466     129.902  47.360 -24.512  1.00 80.28      A16S
ATOM  30907  N3   C  A1466     130.962  45.369 -24.597  1.00 80.28      A16S
ATOM  30908  C4   C  A1466     131.770  44.547 -25.264  1.00 80.28      A16S
ATOM  30909  N4   C  A1466     132.047  43.365 -24.714  1.00 80.28      A16S
ATOM  30910  C5   C  A1466     132.331  44.899 -26.521  1.00 80.28      A16S
ATOM  30911  C2* C  A1466     131.973  49.337 -26.571  1.00 54.98      A16S
ATOM  30912  O2* C  A1466     131.358  50.606 -26.456  1.00 54.98      A16S
ATOM  30913  C3* C  A1466     132.838  49.273 -27.818  1.00 54.98      A16S
ATOM  30914  O3* C  A1466     133.581  50.466 -28.002  1.00 54.98      A16S
ATOM  30915  P    G  A1467     135.161  50.472 -27.692  1.00 68.23      A16S
ATOM  30916  O1P G  A1467     135.635  51.872 -27.863  1.00 58.56      A16S
ATOM  30917  O2P G  A1467     135.808  49.377 -28.453  1.00 58.56      A16S
ATOM  30918  O5* G  A1467     135.272  50.090 -26.151  1.00 68.23      A16S
ATOM  30919  C5* G  A1467     134.575  50.850 -25.158  1.00 68.23      A16S
ATOM  30920  C4* G  A1467     134.494  50.076 -23.867  1.00 68.23      A16S
ATOM  30921  O4* G  A1467     133.748  48.848 -24.070  1.00 68.23      A16S
ATOM  30922  C1* G  A1467     134.292  47.823 -23.260  1.00 68.23      A16S
ATOM  30923  N9   G  A1467     134.755  46.745 -24.126  1.00 58.56      A16S
ATOM  30924  C4   G  A1467     134.885  45.431 -23.774  1.00 58.56      A16S
ATOM  30925  N3   G  A1467     134.581  44.903 -22.572  1.00 58.56      A16S
ATOM  30926  C2   G  A1467     134.815  43.605 -22.532  1.00 58.56      A16S
ATOM  30927  N2   G  A1467     134.546  42.912 -21.414  1.00 58.56      A16S
ATOM  30928  N1   G  A1467     135.321  42.890 -23.589  1.00 58.56      A16S
ATOM  30929  C6   G  A1467     135.637  43.418 -24.834  1.00 58.56      A16S
ATOM  30930  O6   G  A1467     136.079  42.683 -25.718  1.00 58.56      A16S
ATOM  30931  C5   G  A1467     135.383  44.800 -24.890  1.00 58.56      A16S
ATOM  30932  N7   G  A1467     135.553  45.699 -25.928  1.00 58.56      A16S
ATOM  30933  C8   G  A1467     135.164  46.838 -25.431  1.00 58.56      A16S
ATOM  30934  C2* G  A1467     135.438  48.429 -22.447  1.00 68.23      A16S
ATOM  30935  O2* G  A1467     134.969  48.814 -21.171  1.00 68.23      A16S
ATOM  30936  C3* G  A1467     135.826  49.623 -23.307  1.00 68.23      A16S
ATOM  30937  O3* G  A1467     136.441  50.651 -22.558  1.00 68.23      A16S
ATOM  30938  P    A  A1468     138.018  50.898 -22.703  1.00 46.97      A16S
ATOM  30939  O1P A  A1468     138.167  52.343 -22.984  1.00 71.86      A16S
ATOM  30940  O2P A  A1468     138.598  49.905 -23.647  1.00 71.86      A16S
ATOM  30941  O5* A  A1468     138.596  50.611 -21.244  1.00 46.97      A16S
ATOM  30942  C5* A  A1468     138.168  51.410 -20.124  1.00 46.97      A16S
ATOM  30943  C4* A  A1468     138.542  50.754 -18.816  1.00 46.97      A16S
ATOM  30944  O4* A  A1468     137.836  49.500 -18.672  1.00 46.97      A16S
ATOM  30945  C1* A  A1468     138.664  48.565 -18.007  1.00 46.97      A16S
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ATOM  30946  N9  A  A1468     138.941  47.471 -18.926  1.00 71.86      A16S
ATOM  30947  C4  A  A1468     139.205  46.176 -18.573  1.00 71.86      A16S
ATOM  30948  N3  A  A1468     139.266  45.669 -17.331  1.00 71.86      A16S
ATOM  30949  C2  A  A1468     139.531  44.370 -17.371  1.00 71.86      A16S
ATOM  30950  N1  A  A1468     139.721  43.577 -18.436  1.00 71.86      A16S
ATOM  30951  C6  A  A1468     139.653  44.125 -19.670  1.00 71.86      A16S
ATOM  30952  N6  A  A1468     139.835  43.341 -20.735  1.00 71.86      A16S
ATOM  30953  C5  A  A1468     139.387  45.495 -19.758  1.00 71.86      A16S
ATOM  30954  N7  A  A1468     139.257  46.350 -20.840  1.00 71.86      A16S
ATOM  30955  C8  A  A1468     138.994  47.507 -20.294  1.00 71.86      A16S
ATOM  30956  C2* A  A1468     139.957  49.272 -17.621  1.00 46.97      A16S
ATOM  30957  O2* A  A1468     139.855  49.706 -16.281  1.00 46.97      A16S
ATOM  30958  C3* A  A1468     140.004  50.390 -18.653  1.00 46.97      A16S
ATOM  30959  O3* A  A1468     140.785  51.498 -18.243  1.00 46.97      A16S
ATOM  30960  P   G  A1469     142.134  51.841 -19.043  1.00 72.81      A16S
ATOM  30961  O1P G  A1469     142.777  52.999 -18.365  1.00 65.79      A16S
ATOM  30962  O2P G  A1469     141.788  51.930 -20.489  1.00 65.79      A16S
ATOM  30963  O5* G  A1469     143.047  50.554 -18.831  1.00 72.81      A16S
ATOM  30964  C5* G  A1469     143.310  50.067 -17.513  1.00 72.81      A16S
ATOM  30965  C4* G  A1469     143.642  48.601 -17.555  1.00 72.81      A16S
ATOM  30966  O4* G  A1469     142.540  47.879 -18.157  1.00 72.81      A16S
ATOM  30967  C1* G  A1469     143.039  46.794 -18.920  1.00 72.81      A16S
ATOM  30968  N9  G  A1469     142.734  47.041 -20.324  1.00 65.79      A16S
ATOM  30969  C4  G  A1469     142.778  46.115 -21.330  1.00 65.79      A16S
ATOM  30970  N3  G  A1469     143.094  44.809 -21.188  1.00 65.79      A16S
ATOM  30971  C2  G  A1469     143.064  44.168 -22.343  1.00 65.79      A16S
ATOM  30972  N2  G  A1469     143.366  42.865 -22.386  1.00 65.79      A16S
ATOM  30973  N1  G  A1469     142.740  44.762 -23.541  1.00 65.79      A16S
ATOM  30974  C6  G  A1469     142.411  46.107 -23.706  1.00 65.79      A16S
ATOM  30975  O6  G  A1469     142.138  46.546 -24.829  1.00 65.79      A16S
ATOM  30976  C5  G  A1469     142.447  46.804 -22.478  1.00 65.79      A16S
ATOM  30977  N7  G  A1469     142.197  48.139 -22.197  1.00 65.79      A16S
ATOM  30978  C8  G  A1469     142.376  48.233 -20.908  1.00 65.79      A16S
ATOM  30979  C2* G  A1469     144.548  46.756 -18.722  1.00 72.81      A16S
ATOM  30980  O2* G  A1469     144.852  45.896 -17.642  1.00 72.81      A16S
ATOM  30981  C3* G  A1469     144.836  48.214 -18.407  1.00 72.81      A16S
ATOM  30982  O3* G  A1469     146.055  48.379 -17.722  1.00 72.81      A16S
ATOM  30983  P   G  A1470     147.379  48.730 -18.549  1.00 64.47      A16S
ATOM  30984  O1P G  A1470     148.404  48.937 -17.503  1.00 55.47      A16S
ATOM  30985  O2P G  A1470     147.107  49.800 -19.542  1.00 55.47      A16S
ATOM  30986  O5* G  A1470     147.696  47.393 -19.349  1.00 64.47      A16S
ATOM  30987  C5* G  A1470     148.096  46.214 -18.644  1.00 64.47      A16S
ATOM  30988  C4* G  A1470     148.305  45.067 -19.597  1.00 64.47      A16S
ATOM  30989  O4* G  A1470     147.043  44.703 -20.217  1.00 64.47      A16S
ATOM  30990  C1* G  A1470     147.274  44.249 -21.540  1.00 64.47      A16S
ATOM  30991  N9  G  A1470     146.669  45.204 -22.458  1.00 55.47      A16S
ATOM  30992  C4  G  A1470     146.339  44.979 -23.771  1.00 55.47      A16S
ATOM  30993  N3  G  A1470     146.480  43.816 -24.436  1.00 55.47      A16S
ATOM  30994  C2  G  A1470     146.098  43.923 -25.699  1.00 55.47      A16S
ATOM  30995  N2  G  A1470     146.171  42.865 -26.508  1.00 55.47      A16S
ATOM  30996  N1  G  A1470     145.615  45.074 -26.265  1.00 55.47      A16S
ATOM  30997  C6  G  A1470     145.453  46.284 -25.599  1.00 55.47      A16S
ATOM  30998  O6  G  A1470     144.994  47.267 -26.201  1.00 55.47      A16S
ATOM  30999  C5  G  A1470     145.865  46.188 -24.241  1.00 55.47      A16S
ATOM  31000  N7  G  A1470     145.881  47.148 -23.236  1.00 55.47      A16S
ATOM  31001  C8  G  A1470     146.357  46.519 -22.197  1.00 55.47      A16S
ATOM  31002  C2* G  A1470     148.784  44.250 -21.760  1.00 64.47      A16S
ATOM  31003  O2* G  A1470     149.329  42.975 -21.462  1.00 64.47      A16S
ATOM  31004  C3* G  A1470     149.231  45.317 -20.772  1.00 64.47      A16S
ATOM  31005  O3* G  A1470     150.606  45.203 -20.460  1.00 64.47      A16S
ATOM  31006  P   G  A1471     151.687  45.820 -21.476  1.00 99.47      A16S
ATOM  31007  O1P G  A1471     153.017  45.644 -20.842  1.00 77.67      A16S
ATOM  31008  O2P G  A1471     151.246  47.176 -21.894  1.00 77.67      A16S
ATOM  31009  O5* G  A1471     151.586  44.893 -22.769  1.00 99.47      A16S
ATOM  31010  C5* G  A1471     151.805  43.471 -22.686  1.00 99.47      A16S
ATOM  31011  C4* G  A1471     151.669  42.841 -24.053  1.00 99.47      A16S
ATOM  31012  O4* G  A1471     150.314  43.005 -24.539  1.00 99.47      A16S
ATOM  31013  C1* G  A1471     150.332  43.212 -25.941  1.00 99.47      A16S
ATOM  31014  N9  G  A1471     149.675  44.484 -26.232  1.00 77.67      A16S
ATOM  31015  C4  G  A1471     149.197  44.893 -27.452  1.00 77.67      A16S
ATOM  31016  N3  G  A1471     149.274  44.200 -28.605  1.00 77.67      A16S
ATOM  31017  C2  G  A1471     148.713  44.849 -29.608  1.00 77.67      A16S
ATOM  31018  N2  G  A1471     148.702  44.307 -30.837  1.00 77.67      A16S
ATOM  31019  N1  G  A1471     148.122  46.077 -29.484  1.00 77.67      A16S
ATOM  31020  C6  G  A1471     148.035  46.807 -28.307  1.00 77.67      A16S
ATOM  31021  O6  G  A1471     147.479  47.906 -28.305  1.00 77.67      A16S
ATOM  31022  C5  G  A1471     148.634  46.128 -27.229  1.00 77.67      A16S
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ATOM  31023  N7  G   A1471     148.772  46.502 -25.901  1.00 77.67      A16S
ATOM  31024  C8  G   A1471     149.397  45.499 -25.348  1.00 77.67      A16S
ATOM  31025  C2* G   A1471     151.785  43.148 -26.415  1.00 99.47      A16S
ATOM  31026  O2* G   A1471     152.051  41.861 -26.932  1.00 99.47      A16S
ATOM  31027  C3* G   A1471     152.545  43.457 -25.129  1.00 99.47      A16S
ATOM  31028  O3* G   A1471     153.848  42.892 -25.103  1.00 99.47      A16S
ATOM  31029  P   U   A1472     155.090  43.735 -25.663  1.00109.57      A16S
ATOM  31030  O1P U   A1472     156.312  42.985 -25.276  1.00 90.13      A16S
ATOM  31031  O2P U   A1472     154.943  45.156 -25.259  1.00 90.13      A16S
ATOM  31032  O5* U   A1472     154.909  43.645 -27.241  1.00109.57      A16S
ATOM  31033  C5* U   A1472     155.189  42.418 -27.939  1.00109.57      A16S
ATOM  31034  C4* U   A1472     155.049  42.611 -29.429  1.00109.57      A16S
ATOM  31035  O4* U   A1472     153.648  42.763 -29.775  1.00109.57      A16S
ATOM  31036  C1* U   A1472     153.520  43.666 -30.864  1.00109.57      A16S
ATOM  31037  N1  U   A1472     152.740  44.834 -30.420  1.00 90.13      A16S
ATOM  31038  C6  U   A1472     152.777  45.257 -29.107  1.00 90.13      A16S
ATOM  31039  C2  U   A1472     151.973  45.508 -31.365  1.00 90.13      A16S
ATOM  31040  O2  U   A1472     151.897  45.164 -32.536  1.00 90.13      A16S
ATOM  31041  N3  U   A1472     151.295  46.601 -30.885  1.00 90.13      A16S
ATOM  31042  C4  U   A1472     151.297  47.078 -29.586  1.00 90.13      A16S
ATOM  31043  O4  U   A1472     150.648  48.090 -29.309  1.00 90.13      A16S
ATOM  31044  C5  U   A1472     152.101  46.322 -28.673  1.00 90.13      A16S
ATOM  31045  C2* U   A1472     154.930  44.068 -31.296  1.00109.57      A16S
ATOM  31046  O2* U   A1472     155.357  43.234 -32.359  1.00109.57      A16S
ATOM  31047  C3* U   A1472     155.718  43.846 -30.011  1.00109.57      A16S
ATOM  31048  O3* U   A1472     157.115  43.686 -30.238  1.00109.57      A16S
ATOM  31049  P   A   A1473     158.072  44.982 -30.230  1.00110.88      A16S
ATOM  31050  O1P A   A1473     159.441  44.501 -30.546  1.00116.85      A16S
ATOM  31051  O2P A   A1473     157.842  45.753 -28.979  1.00116.85      A16S
ATOM  31052  O5* A   A1473     157.533  45.853 -31.454  1.00110.88      A16S
ATOM  31053  C5* A   A1473     157.549  45.324 -32.796  1.00110.88      A16S
ATOM  31054  C4* A   A1473     156.931  46.303 -33.771  1.00110.88      A16S
ATOM  31055  O4* A   A1473     155.497  46.395 -33.565  1.00110.88      A16S
ATOM  31056  C1* A   A1473     155.050  47.702 -33.901  1.00110.88      A16S
ATOM  31057  N9  A   A1473     154.399  48.303 -32.734  1.00116.85      A16S
ATOM  31058  C4  A   A1473     153.499  49.344 -32.762  1.00116.85      A16S
ATOM  31059  N3  A   A1473     153.035  49.996 -33.842  1.00116.85      A16S
ATOM  31060  C2  A   A1473     152.183  50.953 -33.484  1.00116.85      A16S
ATOM  31061  N1  A   A1473     151.773  51.306 -32.264  1.00116.85      A16S
ATOM  31062  C6  A   A1473     152.257  50.632 -31.199  1.00116.85      A16S
ATOM  31063  N6  A   A1473     151.846  50.984 -29.980  1.00116.85      A16S
ATOM  31064  C5  A   A1473     153.170  49.593 -31.443  1.00116.85      A16S
ATOM  31065  N7  A   A1473     153.845  48.725 -30.597  1.00116.85      A16S
ATOM  31066  C8  A   A1473     154.556  47.981 -31.408  1.00116.85      A16S
ATOM  31067  C2* A   A1473     156.268  48.511 -34.349  1.00110.88      A16S
ATOM  31068  O2* A   A1473     156.341  48.526 -35.763  1.00110.88      A16S
ATOM  31069  C3* A   A1473     157.408  47.742 -33.692  1.00110.88      A16S
ATOM  31070  O3* A   A1473     158.643  47.953 -34.353  1.00110.88      A16S
ATOM  31071  P   G   A1474     159.549  49.208 -33.937  1.00119.28      A16S
ATOM  31072  O1P G   A1474     160.869  49.008 -34.584  1.00126.17      A16S
ATOM  31073  O2P G   A1474     159.474  49.398 -32.466  1.00126.17      A16S
ATOM  31074  O5* G   A1474     158.817  50.443 -34.623  1.00119.28      A16S
ATOM  31075  C5* G   A1474     158.796  50.575 -36.054  1.00119.28      A16S
ATOM  31076  C4* G   A1474     157.956  51.760 -36.461  1.00119.28      A16S
ATOM  31077  O4* G   A1474     156.571  51.513 -36.096  1.00119.28      A16S
ATOM  31078  C1* G   A1474     155.967  52.720 -35.665  1.00119.28      A16S
ATOM  31079  N9  G   A1474     155.675  52.594 -34.240  1.00126.17      A16S
ATOM  31080  C4  G   A1474     154.705  53.270 -33.538  1.00126.17      A16S
ATOM  31081  N3  G   A1474     153.813  54.138 -34.056  1.00126.17      A16S
ATOM  31082  C2  G   A1474     153.034  54.654 -33.127  1.00126.17      A16S
ATOM  31083  N2  G   A1474     152.098  55.541 -33.469  1.00126.17      A16S
ATOM  31084  N1  G   A1474     153.119  54.341 -31.794  1.00126.17      A16S
ATOM  31085  C6  G   A1474     154.031  53.451 -31.238  1.00126.17      A16S
ATOM  31086  O6  G   A1474     154.036  53.250 -30.015  1.00126.17      A16S
ATOM  31087  C5  G   A1474     154.871  52.887 -32.223  1.00126.17      A16S
ATOM  31088  N7  G   A1474     155.902  51.966 -32.104  1.00126.17      A16S
ATOM  31089  C8  G   A1474     156.342  51.815 -33.322  1.00126.17      A16S
ATOM  31090  C2* G   A1474     156.984  53.842 -35.892  1.00119.28      A16S
ATOM  31091  O2* G   A1474     156.786  54.442 -37.162  1.00119.28      A16S
ATOM  31092  C3* G   A1474     158.297  53.079 -35.786  1.00119.28      A16S
ATOM  31093  O3* G   A1474     159.400  53.756 -36.378  1.00119.28      A16S
ATOM  31094  P   G   A1475     160.351  54.670 -35.457  1.00151.62      A16S
ATOM  31095  O1P G   A1475     161.567  54.982 -36.248  1.00196.99      A16S
ATOM  31096  O2P G   A1475     160.490  54.034 -34.121  1.00196.99      A16S
ATOM  31097  O5* G   A1475     159.519  56.015 -35.271  1.00151.62      A16S
ATOM  31098  C5* G   A1475     159.009  56.732 -36.415  1.00151.62      A16S
ATOM  31099  C4* G   A1475     157.937  57.708 -35.988  1.00151.62      A16S
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ATOM  31100  O4*  G    A1475     156.841  56.971 -35.389  1.00151.62        A16S
ATOM  31101  C1*  G    A1475     156.310  57.700 -34.293  1.00151.62        A16S
ATOM  31102  N9   G    A1475     156.477  56.893 -33.084  1.00196.99        A16S
ATOM  31103  C4   G    A1475     155.723  56.975 -31.936  1.00196.99        A16S
ATOM  31104  N3   G    A1475     154.696  57.821 -31.724  1.00196.99        A16S
ATOM  31105  C2   G    A1475     154.171  57.669 -30.523  1.00196.99        A16S
ATOM  31106  N2   G    A1475     153.148  58.443 -30.149  1.00196.99        A16S
ATOM  31107  N1   G    A1475     154.615  56.752 -29.598  1.00196.99        A16S
ATOM  31108  C6   G    A1475     155.671  55.867 -29.792  1.00196.99        A16S
ATOM  31109  O6   G    A1475     155.990  55.077 -28.890  1.00196.99        A16S
ATOM  31110  C5   G    A1475     156.250  56.025 -31.082  1.00196.99        A16S
ATOM  31111  N7   G    A1475     157.313  55.361 -31.679  1.00196.99        A16S
ATOM  31112  C8   G    A1475     157.412  55.906 -32.862  1.00196.99        A16S
ATOM  31113  C2*  G    A1475     157.040  59.045 -34.229  1.00151.62        A16S
ATOM  31114  O2*  G    A1475     156.289  60.042 -34.899  1.00151.62        A16S
ATOM  31115  C3*  G    A1475     158.356  58.712 -34.925  1.00151.62        A16S
ATOM  31116  O3*  G    A1475     158.981  59.857 -35.492  1.00151.62        A16S
ATOM  31117  P    G    A1476     159.966  60.751 -34.589  1.00157.01        A16S
ATOM  31118  O1P  G    A1476     160.563  61.778 -35.483  1.00179.82        A16S
ATOM  31119  O2P  G    A1476     160.858  59.843 -33.818  1.00179.82        A16S
ATOM  31120  O5*  G    A1476     158.981  61.471 -33.561  1.00157.01        A16S
ATOM  31121  C5*  G    A1476     158.169  62.588 -33.975  1.00157.01        A16S
ATOM  31122  C4*  G    A1476     157.404  63.156 -32.801  1.00157.01        A16S
ATOM  31123  O4*  G    A1476     156.373  62.222 -32.392  1.00157.01        A16S
ATOM  31124  C1*  G    A1476     156.179  62.314 -30.990  1.00157.01        A16S
ATOM  31125  N9   G    A1476     156.449  61.011 -30.391  1.00179.82        A16S
ATOM  31126  C4   G    A1476     156.100  60.620 -29.122  1.00179.82        A16S
ATOM  31127  N3   G    A1476     155.430  61.369 -28.221  1.00179.82        A16S
ATOM  31128  C2   G    A1476     155.244  60.724 -27.085  1.00179.82        A16S
ATOM  31129  N2   G    A1476     154.589  61.323 -26.084  1.00179.82        A16S
ATOM  31130  N1   G    A1476     155.685  59.444 -26.848  1.00179.82        A16S
ATOM  31131  C6   G    A1476     156.379  58.654 -27.759  1.00179.82        A16S
ATOM  31132  O6   G    A1476     156.734  57.510 -27.443  1.00179.82        A16S
ATOM  31133  C5   G    A1476     156.582  59.335 -28.987  1.00179.82        A16S
ATOM  31134  N7   G    A1476     157.216  58.923 -30.152  1.00179.82        A16S
ATOM  31135  C8   G    A1476     157.110  59.946 -30.956  1.00179.82        A16S
ATOM  31136  C2*  G    A1476     157.124  63.390 -30.451  1.00157.01        A16S
ATOM  31137  O2*  G    A1476     156.423  64.608 -30.305  1.00157.01        A16S
ATOM  31138  C3*  G    A1476     158.198  63.429 -31.532  1.00157.01        A16S
ATOM  31139  O3*  G    A1476     158.884  64.676 -31.569  1.00157.01        A16S
ATOM  31140  P    C    A1477     160.175  64.904 -30.632  1.00134.87        A16S
ATOM  31141  O1P  C    A1477     160.860  66.122 -31.135  1.00146.67        A16S
ATOM  31142  O2P  C    A1477     160.935  63.630 -30.516  1.00146.67        A16S
ATOM  31143  O5*  C    A1477     159.553  65.237 -29.205  1.00134.87        A16S
ATOM  31144  C5*  C    A1477     158.696  66.378 -29.034  1.00134.87        A16S
ATOM  31145  C4*  C    A1477     158.029  66.343 -27.681  1.00134.87        A16S
ATOM  31146  O4*  C    A1477     157.200  65.154 -27.573  1.00134.87        A16S
ATOM  31147  C1*  C    A1477     157.182  64.709 -26.227  1.00134.87        A16S
ATOM  31148  N1   C    A1477     157.710  63.333 -26.163  1.00146.67        A16S
ATOM  31149  C6   C    A1477     158.560  62.854 -27.123  1.00146.67        A16S
ATOM  31150  C2   C    A1477     157.337  62.517 -25.079  1.00146.67        A16S
ATOM  31151  O2   C    A1477     156.550  62.966 -24.225  1.00146.67        A16S
ATOM  31152  N3   C    A1477     157.843  61.265 -24.991  1.00146.67        A16S
ATOM  31153  C4   C    A1477     158.681  60.815 -25.927  1.00146.67        A16S
ATOM  31154  N4   C    A1477     159.161  59.575 -25.791  1.00146.67        A16S
ATOM  31155  C5   C    A1477     159.065  61.615 -27.045  1.00146.67        A16S
ATOM  31156  C2*  C    A1477     158.035  65.675 -25.405  1.00134.87        A16S
ATOM  31157  O2*  C    A1477     157.201  66.644 -24.800  1.00134.87        A16S
ATOM  31158  C3*  C    A1477     158.947  66.264 -26.473  1.00134.87        A16S
ATOM  31159  O3*  C    A1477     159.463  67.529 -26.092  1.00134.87        A16S
ATOM  31160  P    C    A1478     160.758  67.600 -25.141  1.00115.49        A16S
ATOM  31161  O1P  C    A1478     161.118  69.032 -24.984  1.00167.23        A16S
ATOM  31162  O2P  C    A1478     161.778  66.640 -25.641  1.00167.23        A16S
ATOM  31163  O5*  C    A1478     160.224  67.072 -23.735  1.00115.49        A16S
ATOM  31164  C5*  C    A1478     159.265  67.837 -22.973  1.00115.49        A16S
ATOM  31165  C4*  C    A1478     159.051  67.209 -21.617  1.00115.49        A16S
ATOM  31166  O4*  C    A1478     158.367  65.940 -21.764  1.00115.49        A16S
ATOM  31167  C1*  C    A1478     158.870  65.013 -20.818  1.00115.49        A16S
ATOM  31168  N1   C    A1478     159.451  63.873 -21.549  1.00167.23        A16S
ATOM  31169  C6   C    A1478     159.908  64.022 -22.831  1.00167.23        A16S
ATOM  31170  C2   C    A1478     159.529  62.626 -20.913  1.00167.23        A16S
ATOM  31171  O2   C    A1478     159.117  62.513 -19.744  1.00167.23        A16S
ATOM  31172  N3   C    A1478     160.052  61.576 -21.586  1.00167.23        A16S
ATOM  31173  C4   C    A1478     160.486  61.734 -22.840  1.00167.23        A16S
ATOM  31174  N4   C    A1478     160.982  60.667 -23.469  1.00167.23        A16S
ATOM  31175  C5   C    A1478     160.427  62.991 -23.505  1.00167.23        A16S
ATOM  31176  C2*  C    A1478     159.894  65.740 -19.947  1.00115.49        A16S
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ATOM  31177  O2*  C    A1478     159.272  66.202 -18.767  1.00115.49      A16S
ATOM  31178  C3*  C    A1478     160.325  66.874 -20.865  1.00115.49      A16S
ATOM  31179  O3*  C    A1478     160.822  67.990 -20.153  1.00115.49      A16S
ATOM  31180  P    C    A1479     162.372  68.037 -19.755  1.00160.05      A16S
ATOM  31181  O1P  C    A1479     162.653  69.390 -19.219  1.00119.64      A16S
ATOM  31182  O2P  C    A1479     163.154  67.526 -20.911  1.00119.64      A16S
ATOM  31183  O5*  C    A1479     162.478  66.992 -18.558  1.00160.05      A16S
ATOM  31184  C5*  C    A1479     161.769  67.220 -17.325  1.00160.05      A16S
ATOM  31185  C4*  C    A1479     161.975  66.065 -16.373  1.00160.05      A16S
ATOM  31186  O4*  C    A1479     161.340  64.871 -16.896  1.00160.05      A16S
ATOM  31187  C1*  C    A1479     162.105  63.730 -16.541  1.00160.05      A16S
ATOM  31188  N1   C    A1479     162.553  63.059 -17.775  1.00119.64      A16S
ATOM  31189  C6   C    A1479     162.473  63.689 -18.987  1.00119.64      A16S
ATOM  31190  C2   C    A1479     163.072  61.757 -17.690  1.00119.64      A16S
ATOM  31191  O2   C    A1479     163.130  61.201 -16.583  1.00119.64      A16S
ATOM  31192  N3   C    A1479     163.499  61.143 -18.814  1.00119.64      A16S
ATOM  31193  C4   C    A1479     163.424  61.774 -19.989  1.00119.64      A16S
ATOM  31194  N4   C    A1479     163.870  61.134 -21.070  1.00119.64      A16S
ATOM  31195  C5   C    A1479     162.893  63.091 -20.106  1.00119.64      A16S
ATOM  31196  C2*  C    A1479     163.281  64.205 -15.687  1.00160.05      A16S
ATOM  31197  O2*  C    A1479     162.946  64.079 -14.319  1.00160.05      A16S
ATOM  31198  C3*  C    A1479     163.416  65.655 -16.129  1.00160.05      A16S
ATOM  31199  O3*  C    A1479     164.043  66.462 -15.145  1.00160.05      A16S
ATOM  31200  P    G    A1480     165.643  66.590 -15.136  1.00144.46      A16S
ATOM  31201  O1P  G    A1480     166.007  67.596 -14.109  1.00141.04      A16S
ATOM  31202  O2P  G    A1480     166.102  66.773 -16.540  1.00141.04      A16S
ATOM  31203  O5*  G    A1480     166.137  65.157 -14.640  1.00144.46      A16S
ATOM  31204  C5*  G    A1480     165.830  64.676 -13.313  1.00144.46      A16S
ATOM  31205  C4*  G    A1480     166.452  63.316 -13.099  1.00144.46      A16S
ATOM  31206  O4*  G    A1480     165.843  62.366 -14.010  1.00144.46      A16S
ATOM  31207  C1*  G    A1480     166.825  61.473 -14.506  1.00144.46      A16S
ATOM  31208  N9   G    A1480     166.918  61.664 -15.952  1.00141.04      A16S
ATOM  31209  C4   G    A1480     167.546  60.835 -16.851  1.00141.04      A16S
ATOM  31210  N3   G    A1480     168.185  59.683 -16.555  1.00141.04      A16S
ATOM  31211  C2   G    A1480     168.704  59.112 -17.632  1.00141.04      A16S
ATOM  31212  N2   G    A1480     169.369  57.953 -17.519  1.00141.04      A16S
ATOM  31213  N1   G    A1480     168.608  59.634 -18.902  1.00141.04      A16S
ATOM  31214  C6   G    A1480     167.958  60.819 -19.233  1.00141.04      A16S
ATOM  31215  O6   G    A1480     167.938  61.203 -20.414  1.00141.04      A16S
ATOM  31216  C5   G    A1480     167.389  61.441 -18.081  1.00141.04      A16S
ATOM  31217  N7   G    A1480     166.669  62.622 -17.959  1.00141.04      A16S
ATOM  31218  C8   G    A1480     166.409  62.712 -16.684  1.00141.04      A16S
ATOM  31219  C2*  G    A1480     168.140  61.784 -13.789  1.00144.46      A16S
ATOM  31220  O2*  G    A1480     168.303  60.914 -12.686  1.00144.46      A16S
ATOM  31221  C3*  G    A1480     167.940  63.244 -13.400  1.00144.46      A16S
ATOM  31222  O3*  G    A1480     168.720  63.653 -12.279  1.00144.46      A16S
ATOM  31223  P    U    A1481     170.234  64.156 -12.500  1.00120.58      A16S
ATOM  31224  O1P  U    A1481     170.721  64.669 -11.188  1.00123.20      A16S
ATOM  31225  O2P  U    A1481     170.312  65.032 -13.707  1.00123.20      A16S
ATOM  31226  O5*  U    A1481     171.016  62.810 -12.821  1.00120.58      A16S
ATOM  31227  C5*  U    A1481     171.163  61.782 -11.825  1.00120.58      A16S
ATOM  31228  C4*  U    A1481     171.919  60.622 -12.407  1.00120.58      A16S
ATOM  31229  O4*  U    A1481     171.085  59.975 -13.402  1.00120.58      A16S
ATOM  31230  C1*  U    A1481     171.869  59.634 -14.535  1.00120.58      A16S
ATOM  31231  N1   U    A1481     171.418  60.463 -15.664  1.00123.20      A16S
ATOM  31232  C6   U    A1481     170.697  61.618 -15.453  1.00123.20      A16S
ATOM  31233  C2   U    A1481     171.754  60.057 -16.947  1.00123.20      A16S
ATOM  31234  O2   U    A1481     172.391  59.038 -17.186  1.00123.20      A16S
ATOM  31235  N3   U    A1481     171.319  60.895 -17.945  1.00123.20      A16S
ATOM  31236  C4   U    A1481     170.602  62.066 -17.796  1.00123.20      A16S
ATOM  31237  O4   U    A1481     170.274  62.706 -18.797  1.00123.20      A16S
ATOM  31238  C5   U    A1481     170.293  62.411 -16.444  1.00123.20      A16S
ATOM  31239  C2*  U    A1481     173.327  59.942 -14.197  1.00120.58      A16S
ATOM  31240  O2*  U    A1481     173.980  58.794 -13.695  1.00120.58      A16S
ATOM  31241  C3*  U    A1481     173.160  61.049 -13.172  1.00120.58      A16S
ATOM  31242  O3*  U    A1481     174.291  61.254 -12.348  1.00120.58      A16S
ATOM  31243  P    G    A1482     175.334  62.416 -12.729  1.00106.69      A16S
ATOM  31244  O1P  G    A1482     176.435  62.364 -11.733  1.00129.68      A16S
ATOM  31245  O2P  G    A1482     174.580  63.682 -12.923  1.00129.68      A16S
ATOM  31246  O5*  G    A1482     175.913  61.950 -14.139  1.00106.69      A16S
ATOM  31247  C5*  G    A1482     176.466  60.632 -14.295  1.00106.69      A16S
ATOM  31248  C4*  G    A1482     176.662  60.309 -15.753  1.00106.69      A16S
ATOM  31249  O4*  G    A1482     175.384  60.299 -16.431  1.00106.69      A16S
ATOM  31250  C1*  G    A1482     175.536  60.810 -17.745  1.00106.69      A16S
ATOM  31251  N9   G    A1482     174.696  62.000 -17.851  1.00129.68      A16S
ATOM  31252  C4   G    A1482     174.136  62.530 -18.994  1.00129.68      A16S
ATOM  31253  N3   G    A1482     174.280  62.052 -20.251  1.00129.68      A16S
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ATOM  31254  C2  G  A1482     173.614  62.780 -21.135  1.00129.68      A16S
ATOM  31255  N2  G  A1482     173.657  62.460 -22.433  1.00129.68      A16S
ATOM  31256  N1  G  A1482     172.858  63.879 -20.812  1.00129.68      A16S
ATOM  31257  C6  G  A1482     172.694  64.390 -19.526  1.00129.68      A16S
ATOM  31258  O6  G  A1482     171.988  65.397 -19.340  1.00129.68      A16S
ATOM  31259  C5  G  A1482     173.412  63.627 -18.569  1.00129.68      A16S
ATOM  31260  N7  G  A1482     173.525  63.791 -17.195  1.00129.68      A16S
ATOM  31261  C8  G  A1482     174.295  62.810 -16.814  1.00129.68      A16S
ATOM  31262  C2* G  A1482     177.027  61.089 -17.966  1.00106.69      A16S
ATOM  31263  O2* G  A1482     177.639  59.977 -18.598  1.00106.69      A16S
ATOM  31264  C3* G  A1482     177.517  61.289 -16.536  1.00106.69      A16S
ATOM  31265  O3* G  A1482     178.892  60.967 -16.376  1.00106.69      A16S
ATOM  31266  P   A  A1483     180.025  61.966 -16.928  1.00108.19      A16S
ATOM  31267  O1P A  A1483     181.042  62.090 -15.849  1.00135.98      A16S
ATOM  31268  O2P A  A1483     179.386  63.194 -17.476  1.00135.98      A16S
ATOM  31269  O5* A  A1483     180.672  61.141 -18.129  1.00108.19      A16S
ATOM  31270  C5* A  A1483     181.311  59.872 -17.886  1.00108.19      A16S
ATOM  31271  C4* A  A1483     182.025  59.394 -19.125  1.00108.19      A16S
ATOM  31272  O4* A  A1483     181.060  59.002 -20.129  1.00108.19      A16S
ATOM  31273  C1* A  A1483     181.568  59.300 -21.418  1.00108.19      A16S
ATOM  31274  N9  A  A1483     180.629  60.196 -22.087  1.00135.98      A16S
ATOM  31275  C4  A  A1483     180.534  60.391 -23.441  1.00135.98      A16S
ATOM  31276  N3  A  A1483     181.265  59.801 -24.401  1.00135.98      A16S
ATOM  31277  C2  A  A1483     180.893  60.233 -25.604  1.00135.98      A16S
ATOM  31278  N1  A  A1483     179.945  61.120 -25.931  1.00135.98      A16S
ATOM  31279  C6  A  A1483     179.229  61.693 -24.939  1.00135.98      A16S
ATOM  31280  N6  A  A1483     178.284  62.578 -25.261  1.00135.98      A16S
ATOM  31281  C5  A  A1483     179.527  61.319 -23.618  1.00135.98      A16S
ATOM  31282  N7  A  A1483     178.996  61.704 -22.396  1.00135.98      A16S
ATOM  31283  C8  A  A1483     179.682  61.012 -21.522  1.00135.98      A16S
ATOM  31284  C2* A  A1483     182.953  59.927 -21.254  1.00108.19      A16S
ATOM  31285  O2* A  A1483     183.947  58.953 -21.486  1.00108.19      A16S
ATOM  31286  C3* A  A1483     182.897  60.427 -19.816  1.00108.19      A16S
ATOM  31287  O3* A  A1483     184.175  60.510 -19.213  1.00108.19      A16S
ATOM  31288  P   C  A1484     184.722  61.937 -18.718  1.00110.43      A16S
ATOM  31289  O1P C  A1484     186.094  61.712 -18.194  1.00103.25      A16S
ATOM  31290  O2P C  A1484     183.689  62.545 -17.834  1.00103.25      A16S
ATOM  31291  O5* C  A1484     184.829  62.799 -20.058  1.00110.43      A16S
ATOM  31292  C5* C  A1484     185.602  62.322 -21.174  1.00110.43      A16S
ATOM  31293  C4* C  A1484     185.076  62.896 -22.463  1.00110.43      A16S
ATOM  31294  O4* C  A1484     183.666  62.582 -22.577  1.00110.43      A16S
ATOM  31295  C1* C  A1484     182.985  63.651 -23.221  1.00110.43      A16S
ATOM  31296  N1  C  A1484     181.996  64.222 -22.281  1.00103.25      A16S
ATOM  31297  C6  C  A1484     181.981  63.853 -20.962  1.00103.25      A16S
ATOM  31298  C2  C  A1484     181.078  65.172 -22.757  1.00103.25      A16S
ATOM  31299  O2  C  A1484     181.088  65.471 -23.962  1.00103.25      A16S
ATOM  31300  N3  C  A1484     180.206  65.736 -21.892  1.00103.25      A16S
ATOM  31301  C4  C  A1484     180.216  65.381 -20.603  1.00103.25      A16S
ATOM  31302  N4  C  A1484     179.348  65.977 -19.781  1.00103.25      A16S
ATOM  31303  C5  C  A1484     181.118  64.401 -20.098  1.00103.25      A16S
ATOM  31304  C2* C  A1484     184.036  64.688 -23.613  1.00110.43      A16S
ATOM  31305  O2* C  A1484     184.480  64.466 -24.939  1.00110.43      A16S
ATOM  31306  C3* C  A1484     185.127  64.407 -22.596  1.00110.43      A16S
ATOM  31307  O3* C  A1484     186.373  64.866 -23.072  1.00110.43      A16S
ATOM  31308  P   U  A1485     186.849  66.355 -22.710  1.00116.73      A16S
ATOM  31309  O1P U  A1485     188.169  66.563 -23.373  1.00 99.83      A16S
ATOM  31310  O2P U  A1485     186.730  66.515 -21.228  1.00 99.83      A16S
ATOM  31311  O5* U  A1485     185.759  67.296 -23.406  1.00116.73      A16S
ATOM  31312  C5* U  A1485     185.682  67.418 -24.847  1.00116.73      A16S
ATOM  31313  C4* U  A1485     184.515  68.301 -25.251  1.00116.73      A16S
ATOM  31314  O4* U  A1485     183.287  67.733 -24.727  1.00116.73      A16S
ATOM  31315  C1* U  A1485     182.380  68.772 -24.399  1.00116.73      A16S
ATOM  31316  N1  U  A1485     182.101  68.721 -22.955  1.00 99.83      A16S
ATOM  31317  C6  U  A1485     183.058  68.327 -22.051  1.00 99.83      A16S
ATOM  31318  C2  U  A1485     180.848  69.111 -22.531  1.00 99.83      A16S
ATOM  31319  O2  U  A1485     179.965  69.448 -23.296  1.00 99.83      A16S
ATOM  31320  N3  U  A1485     180.666  69.097 -21.173  1.00 99.83      A16S
ATOM  31321  C4  U  A1485     181.587  68.742 -20.218  1.00 99.83      A16S
ATOM  31322  O4  U  A1485     181.298  68.861 -19.029  1.00 99.83      A16S
ATOM  31323  C5  U  A1485     182.850  68.328 -20.734  1.00 99.83      A16S
ATOM  31324  C2* U  A1485     183.035  70.097 -24.780  1.00116.73      A16S
ATOM  31325  O2* U  A1485     182.626  70.494 -26.071  1.00116.73      A16S
ATOM  31326  C3* U  A1485     184.508  69.732 -24.733  1.00116.73      A16S
ATOM  31327  O3* U  A1485     185.258  70.625 -25.533  1.00116.73      A16S
ATOM  31328  P   G  A1486     185.762  72.015 -24.901  1.00 77.65      A16S
ATOM  31329  O1P G  A1486     186.768  72.579 -25.840  1.00 81.13      A16S
ATOM  31330  O2P G  A1486     186.128  71.777 -23.477  1.00 81.13      A16S
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ATOM  31331  O5* G   A1486     184.480  72.961 -24.937  1.00 77.65      A16S
ATOM  31332  C5* G   A1486     183.998  73.493 -26.188  1.00 77.65      A16S
ATOM  31333  C4* G   A1486     182.896  74.506 -25.956  1.00 77.65      A16S
ATOM  31334  O4* G   A1486     181.729  73.868 -25.378  1.00 77.65      A16S
ATOM  31335  C1* G   A1486     181.057  74.780 -24.529  1.00 77.65      A16S
ATOM  31336  N9   G   A1486     180.988  74.199 -23.190  1.00 81.13      A16S
ATOM  31337  C4   G   A1486     180.096  74.522 -22.194  1.00 81.13      A16S
ATOM  31338  N3   G   A1486     179.117  75.443 -22.276  1.00 81.13      A16S
ATOM  31339  C2   G   A1486     178.426  75.526 -21.156  1.00 81.13      A16S
ATOM  31340  N2   G   A1486     177.399  76.386 -21.069  1.00 81.13      A16S
ATOM  31341  N1   G   A1486     178.685  74.771 -20.039  1.00 81.13      A16S
ATOM  31342  C6   G   A1486     179.690  73.816 -19.932  1.00 81.13      A16S
ATOM  31343  O6   G   A1486     179.839  73.183 -18.873  1.00 81.13      A16S
ATOM  31344  C5   G   A1486     180.430  73.714 -21.128  1.00 81.13      A16S
ATOM  31345  N7   G   A1486     181.506  72.901 -21.444  1.00 81.13      A16S
ATOM  31346  C8   G   A1486     181.804  73.222 -22.673  1.00 81.13      A16S
ATOM  31347  C2* G   A1486     181.825  76.100 -24.579  1.00 77.65      A16S
ATOM  31348  O2* G   A1486     181.252  76.929 -25.566  1.00 77.65      A16S
ATOM  31349  C3* G   A1486     183.208  75.648 -25.013  1.00 77.65      A16S
ATOM  31350  O3* G   A1486     183.878  76.691 -25.692  1.00 77.65      A16S
ATOM  31351  P    G   A1487     185.166  77.367 -25.018  1.00 62.66      A16S
ATOM  31352  O1P G   A1487     185.593  78.487 -25.896  1.00 78.93      A16S
ATOM  31353  O2P G   A1487     186.118  76.276 -24.698  1.00 78.93      A16S
ATOM  31354  O5* G   A1487     184.639  77.947 -23.631  1.00 62.66      A16S
ATOM  31355  C5* G   A1487     184.449  79.367 -23.417  1.00 62.66      A16S
ATOM  31356  C4* G   A1487     182.973  79.695 -23.391  1.00 62.66      A16S
ATOM  31357  O4* G   A1487     182.224  78.483 -23.133  1.00 62.66      A16S
ATOM  31358  C1* G   A1487     181.125  78.758 -22.292  1.00 62.66      A16S
ATOM  31359  N9   G   A1487     181.339  78.032 -21.040  1.00 78.93      A16S
ATOM  31360  C4   G   A1487     180.527  78.026 -19.930  1.00 78.93      A16S
ATOM  31361  N3   G   A1487     179.368  78.696 -19.792  1.00 78.93      A16S
ATOM  31362  C2   G   A1487     178.823  78.493 -18.612  1.00 78.93      A16S
ATOM  31363  N2   G   A1487     177.661  79.081 -18.310  1.00 78.93      A16S
ATOM  31364  N1   G   A1487     179.374  77.698 -17.640  1.00 78.93      A16S
ATOM  31365  C6   G   A1487     180.571  77.005 -17.759  1.00 78.93      A16S
ATOM  31366  O6   G   A1487     180.992  76.325 -16.816  1.00 78.93      A16S
ATOM  31367  C5   G   A1487     181.159  77.208 -19.020  1.00 78.93      A16S
ATOM  31368  N7   G   A1487     182.339  76.706 -19.543  1.00 78.93      A16S
ATOM  31369  C8   G   A1487     182.404  77.218 -20.740  1.00 78.93      A16S
ATOM  31370  C2* G   A1487     181.062  80.277 -22.131  1.00 62.66      A16S
ATOM  31371  O2* G   A1487     180.243  80.811 -23.157  1.00 62.66      A16S
ATOM  31372  C3* G   A1487     182.520  80.666 -22.317  1.00 62.66      A16S
ATOM  31373  O3* G   A1487     182.661  82.026 -22.701  1.00 62.66      A16S
ATOM  31374  P    G   A1488     183.028  83.129 -21.584  1.00 48.79      A16S
ATOM  31375  O1P G   A1488     182.998  84.471 -22.239  1.00 74.03      A16S
ATOM  31376  O2P G   A1488     184.262  82.683 -20.882  1.00 74.03      A16S
ATOM  31377  O5* G   A1488     181.834  83.032 -20.532  1.00 48.79      A16S
ATOM  31378  C5* G   A1488     180.501  83.453 -20.878  1.00 48.79      A16S
ATOM  31379  C4* G   A1488     179.591  83.389 -19.672  1.00 48.79      A16S
ATOM  31380  O4* G   A1488     179.362  82.009 -19.279  1.00 48.79      A16S
ATOM  31381  C1* G   A1488     179.155  81.944 -17.876  1.00 48.79      A16S
ATOM  31382  N9   G   A1488     180.158  81.063 -17.287  1.00 74.03      A16S
ATOM  31383  C4   G   A1488     180.131  80.520 -16.019  1.00 74.03      A16S
ATOM  31384  N3   G   A1488     179.159  80.692 -15.099  1.00 74.03      A16S
ATOM  31385  C2   G   A1488     179.427  80.051 -13.971  1.00 74.03      A16S
ATOM  31386  N2   G   A1488     178.567  80.111 -12.942  1.00 74.03      A16S
ATOM  31387  N1   G   A1488     180.555  79.304 -13.768  1.00 74.03      A16S
ATOM  31388  C6   G   A1488     181.562  79.113 -14.700  1.00 74.03      A16S
ATOM  31389  O6   G   A1488     182.531  78.418 -14.414  1.00 74.03      A16S
ATOM  31390  C5   G   A1488     181.292  79.794 -15.909  1.00 74.03      A16S
ATOM  31391  N7   G   A1488     182.031  79.867 -17.081  1.00 74.03      A16S
ATOM  31392  C8   G   A1488     181.320  80.626 -17.869  1.00 74.03      A16S
ATOM  31393  C2* G   A1488     179.261  83.367 -17.328  1.00 48.79      A16S
ATOM  31394  O2* G   A1488     177.962  83.915 -17.215  1.00 48.79      A16S
ATOM  31395  C3* G   A1488     180.096  84.047 -18.402  1.00 48.79      A16S
ATOM  31396  O3* G   A1488     179.936  85.449 -18.403  1.00 48.79      A16S
ATOM  31397  P    G   A1489     180.789  86.330 -17.372  1.00 38.59      A16S
ATOM  31398  O1P G   A1489     180.572  87.763 -17.674  1.00 61.24      A16S
ATOM  31399  O2P G   A1489     182.168  85.793 -17.335  1.00 61.24      A16S
ATOM  31400  O5* G   A1489     180.095  86.018 -15.977  1.00 38.59      A16S
ATOM  31401  C5* G   A1489     178.709  86.368 -15.763  1.00 38.59      A16S
ATOM  31402  C4* G   A1489     178.330  86.152 -14.320  1.00 38.59      A16S
ATOM  31403  O4* G   A1489     178.281  84.737 -14.024  1.00 38.59      A16S
ATOM  31404  C1* G   A1489     178.853  84.499 -12.758  1.00 38.59      A16S
ATOM  31405  N9   G   A1489     180.042  83.686 -12.975  1.00 61.24      A16S
ATOM  31406  C4   G   A1489     180.689  82.912 -12.048  1.00 61.24      A16S
ATOM  31407  N3   G   A1489     180.361  82.795 -10.752  1.00 61.24      A16S
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ATOM  31408  C2  G   A1489     181.158  81.962 -10.122  1.00 61.24      A16S
ATOM  31409  N2  G   A1489     180.977  81.735  -8.822  1.00 61.24      A16S
ATOM  31410  N1  G   A1489     182.190  81.290 -10.718  1.00 61.24      A16S
ATOM  31411  C6  G   A1489     182.538  81.391 -12.053  1.00 61.24      A16S
ATOM  31412  O6  G   A1489     183.469  80.722 -12.497  1.00 61.24      A16S
ATOM  31413  C5  G   A1489     181.705  82.292 -12.735  1.00 61.24      A16S
ATOM  31414  N7  G   A1489     181.717  82.691 -14.062  1.00 61.24      A16S
ATOM  31415  C8  G   A1489     180.719  83.523 -14.157  1.00 61.24      A16S
ATOM  31416  C2* G   A1489     179.152  85.856 -12.118  1.00 38.59      A16S
ATOM  31417  O2* G   A1489     178.043  86.262 -11.347  1.00 38.59      A16S
ATOM  31418  C3* G   A1489     179.319  86.741 -13.337  1.00 38.59      A16S
ATOM  31419  O3* G   A1489     178.977  88.081 -13.061  1.00 38.59      A16S
ATOM  31420  P   C   A1490     180.072  89.047 -12.429  1.00 39.49      A16S
ATOM  31421  O1P C   A1490     179.365  90.291 -12.043  1.00 79.05      A16S
ATOM  31422  O2P C   A1490     181.242  89.127 -13.341  1.00 79.05      A16S
ATOM  31423  O5* C   A1490     180.517  88.258 -11.118  1.00 39.49      A16S
ATOM  31424  C5* C   A1490     179.628  88.184  -9.998  1.00 39.49      A16S
ATOM  31425  C4* C   A1490     180.253  87.442  -8.840  1.00 39.49      A16S
ATOM  31426  O4* C   A1490     180.379  86.035  -9.151  1.00 39.49      A16S
ATOM  31427  C1* C   A1490     181.474  85.491  -8.435  1.00 39.49      A16S
ATOM  31428  N1  C   A1490     182.460  84.986  -9.407  1.00 79.05      A16S
ATOM  31429  C6  C   A1490     182.409  85.356 -10.720  1.00 79.05      A16S
ATOM  31430  C2  C   A1490     183.469  84.136  -8.957  1.00 79.05      A16S
ATOM  31431  O2  C   A1490     183.474  83.796  -7.767  1.00 79.05      A16S
ATOM  31432  N3  C   A1490     184.410  83.708  -9.824  1.00 79.05      A16S
ATOM  31433  C4  C   A1490     184.361  84.091 -11.099  1.00 79.05      A16S
ATOM  31434  N4  C   A1490     185.321  83.662 -11.920  1.00 79.05      A16S
ATOM  31435  C5  C   A1490     183.330  84.936 -11.590  1.00 79.05      A16S
ATOM  31436  C2* C   A1490     182.067  86.618  -7.586  1.00 39.49      A16S
ATOM  31437  O2* C   A1490     181.497  86.628  -6.291  1.00 39.49      A16S
ATOM  31438  C3* C   A1490     181.639  87.840  -8.375  1.00 39.49      A16S
ATOM  31439  O3* C   A1490     181.669  88.991  -7.562  1.00 39.49      A16S
ATOM  31440  P   G   A1491     183.026  89.839  -7.473  1.00 42.30      A16S
ATOM  31441  O1P G   A1491     182.738  91.026  -6.636  1.00 57.91      A16S
ATOM  31442  O2P G   A1491     183.580  90.030  -8.841  1.00 57.91      A16S
ATOM  31443  O5* G   A1491     183.987  88.873  -6.659  1.00 42.30      A16S
ATOM  31444  C5* G   A1491     183.660  88.513  -5.320  1.00 42.30      A16S
ATOM  31445  C4* G   A1491     184.670  87.542  -4.773  1.00 42.30      A16S
ATOM  31446  O4* G   A1491     184.646  86.338  -5.576  1.00 42.30      A16S
ATOM  31447  C1* G   A1491     185.940  85.774  -5.627  1.00 42.30      A16S
ATOM  31448  N9  G   A1491     186.343  85.670  -7.028  1.00 57.91      A16S
ATOM  31449  C4  G   A1491     187.378  84.915  -7.518  1.00 57.91      A16S
ATOM  31450  N3  G   A1491     188.201  84.135  -6.791  1.00 57.91      A16S
ATOM  31451  C2  G   A1491     189.116  83.554  -7.542  1.00 57.91      A16S
ATOM  31452  N2  G   A1491     190.025  82.747  -6.984  1.00 57.91      A16S
ATOM  31453  N1  G   A1491     189.214  83.722  -8.890  1.00 57.91      A16S
ATOM  31454  C6  G   A1491     188.385  84.519  -9.654  1.00 57.91      A16S
ATOM  31455  O6  G   A1491     188.580  84.610 -10.856  1.00 57.91      A16S
ATOM  31456  C5  G   A1491     187.393  85.147  -8.871  1.00 57.91      A16S
ATOM  31457  N7  G   A1491     186.376  86.018  -9.233  1.00 57.91      A16S
ATOM  31458  C8  G   A1491     185.780  86.302  -8.109  1.00 57.91      A16S
ATOM  31459  C2* G   A1491     186.864  86.651  -4.772  1.00 42.30      A16S
ATOM  31460  O2* G   A1491     186.953  86.109  -3.466  1.00 42.30      A16S
ATOM  31461  C3* G   A1491     186.125  87.986  -4.775  1.00 42.30      A16S
ATOM  31462  O3* G   A1491     186.442  88.772  -3.625  1.00 42.30      A16S
ATOM  31463  P   A   A1492     186.941  90.282  -3.811  1.00 68.02      A16S
ATOM  31464  O1P A   A1492     186.612  90.983  -2.549  1.00139.02      A16S
ATOM  31465  O2P A   A1492     186.417  90.809  -5.096  1.00139.02      A16S
ATOM  31466  O5* A   A1492     188.527  90.158  -3.928  1.00 68.02      A16S
ATOM  31467  C5* A   A1492     189.392  90.373  -2.772  1.00 68.02      A16S
ATOM  31468  C4* A   A1492     190.375  91.505  -3.038  1.00 68.02      A16S
ATOM  31469  O4* A   A1492     190.705  92.183  -1.796  1.00 68.02      A16S
ATOM  31470  C1* A   A1492     191.965  92.819  -1.927  1.00 68.02      A16S
ATOM  31471  N9  A   A1492     192.798  92.535  -0.753  1.00139.02      A16S
ATOM  31472  C4  A   A1492     192.678  91.512   0.160  1.00139.02      A16S
ATOM  31473  N3  A   A1492     191.776  90.513   0.161  1.00139.02      A16S
ATOM  31474  C2  A   A1492     191.954  89.716   1.218  1.00139.02      A16S
ATOM  31475  N1  A   A1492     192.859  89.799   2.202  1.00139.02      A16S
ATOM  31476  C6  A   A1492     193.750  90.816   2.173  1.00139.02      A16S
ATOM  31477  N6  A   A1492     194.647  90.908   3.160  1.00139.02      A16S
ATOM  31478  C5  A   A1492     193.674  91.726   1.099  1.00139.02      A16S
ATOM  31479  N7  A   A1492     194.424  92.847   0.771  1.00139.02      A16S
ATOM  31480  C8  A   A1492     193.871  93.285  -0.331  1.00139.02      A16S
ATOM  31481  C2* A   A1492     192.558  92.416  -3.276  1.00 68.02      A16S
ATOM  31482  O2* A   A1492     192.331  93.491  -4.168  1.00 68.02      A16S
ATOM  31483  C3* A   A1492     191.738  91.176  -3.635  1.00 68.02      A16S
ATOM  31484  O3* A   A1492     191.707  90.989  -5.042  1.00 68.02      A16S
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ATOM  31485  P    A   A1493     192.671  89.897  -5.713  1.00 64.02      A16S
ATOM  31486  O1P  A   A1493     192.432  89.929  -7.178  1.00 93.90      A16S
ATOM  31487  O2P  A   A1493     192.522  88.623  -4.971  1.00 93.90      A16S
ATOM  31488  O5*  A   A1493     194.142  90.430  -5.400  1.00 64.02      A16S
ATOM  31489  C5*  A   A1493     194.646  91.666  -5.963  1.00 64.02      A16S
ATOM  31490  C4*  A   A1493     196.003  92.009  -5.364  1.00 64.02      A16S
ATOM  31491  O4*  A   A1493     195.850  92.253  -3.941  1.00 64.02      A16S
ATOM  31492  C1*  A   A1493     197.008  91.820  -3.256  1.00 64.02      A16S
ATOM  31493  N9   A   A1493     196.626  90.794  -2.288  1.00 93.90      A16S
ATOM  31494  C4   A   A1493     196.928  90.810  -0.951  1.00 93.90      A16S
ATOM  31495  N3   A   A1493     197.588  91.769  -0.277  1.00 93.90      A16S
ATOM  31496  C2   A   A1493     197.722  91.436   1.004  1.00 93.90      A16S
ATOM  31497  N1   A   A1493     197.305  90.332   1.642  1.00 93.90      A16S
ATOM  31498  C6   A   A1493     196.642  89.386   0.936  1.00 93.90      A16S
ATOM  31499  N6   A   A1493     196.228  88.283   1.572  1.00 93.90      A16S
ATOM  31500  C5   A   A1493     196.430  89.624  -0.437  1.00 93.90      A16S
ATOM  31501  N7   A   A1493     195.799  88.885  -1.429  1.00 93.90      A16S
ATOM  31502  C8   A   A1493     195.937  89.621  -2.504  1.00 93.90      A16S
ATOM  31503  C2*  A   A1493     198.009  91.304  -4.291  1.00 64.02      A16S
ATOM  31504  O2*  A   A1493     198.917  92.344  -4.592  1.00 64.02      A16S
ATOM  31505  C3*  A   A1493     197.101  90.950  -5.467  1.00 64.02      A16S
ATOM  31506  O3*  A   A1493     197.831  91.055  -6.693  1.00 64.02      A16S
ATOM  31507  P    G   A1494     197.540  90.029  -7.896  1.00 66.93      A16S
ATOM  31508  O1P  G   A1494     198.268  90.526  -9.086  1.00 61.45      A16S
ATOM  31509  O2P  G   A1494     196.088  89.810  -7.970  1.00 61.45      A16S
ATOM  31510  O5*  G   A1494     198.197  88.651  -7.449  1.00 66.93      A16S
ATOM  31511  C5*  G   A1494     199.632  88.471  -7.401  1.00 66.93      A16S
ATOM  31512  C4*  G   A1494     200.063  87.315  -8.293  1.00 66.93      A16S
ATOM  31513  O4*  G   A1494     198.999  86.324  -8.388  1.00 66.93      A16S
ATOM  31514  C1*  G   A1494     198.973  85.762  -9.695  1.00 66.93      A16S
ATOM  31515  N9   G   A1494     197.703  86.106 -10.325  1.00 61.45      A16S
ATOM  31516  C4   G   A1494     197.277  85.724 -11.572  1.00 61.45      A16S
ATOM  31517  N3   G   A1494     197.945  84.934 -12.432  1.00 61.45      A16S
ATOM  31518  C2   G   A1494     197.287  84.775 -13.567  1.00 61.45      A16S
ATOM  31519  N2   G   A1494     197.804  84.032 -14.554  1.00 61.45      A16S
ATOM  31520  N1   G   A1494     196.076  85.338 -13.823  1.00 61.45      A16S
ATOM  31521  C6   G   A1494     195.379  86.153 -12.950  1.00 61.45      A16S
ATOM  31522  O6   G   A1494     194.295  86.614 -13.285  1.00 61.45      A16S
ATOM  31523  C5   G   A1494     196.065  86.334 -11.744  1.00 61.45      A16S
ATOM  31524  N7   G   A1494     195.720  87.067 -10.625  1.00 61.45      A16S
ATOM  31525  C8   G   A1494     196.717  86.898  -9.808  1.00 61.45      A16S
ATOM  31526  C2*  G   A1494     200.131  86.375 -10.479  1.00 66.93      A16S
ATOM  31527  O2*  G   A1494     201.267  85.535 -10.453  1.00 66.93      A16S
ATOM  31528  C3*  G   A1494     200.343  87.681  -9.736  1.00 66.93      A16S
ATOM  31529  O3*  G   A1494     201.662  88.119  -9.919  1.00 66.93      A16S
ATOM  31530  P    U   A1495     201.990  89.089 -11.143  1.00 43.02      A16S
ATOM  31531  O1P  U   A1495     203.429  89.457 -11.040  1.00 62.37      A16S
ATOM  31532  O2P  U   A1495     200.953  90.155 -11.140  1.00 62.37      A16S
ATOM  31533  O5*  U   A1495     201.770  88.194 -12.445  1.00 43.02      A16S
ATOM  31534  C5*  U   A1495     202.651  87.100 -12.743  1.00 43.02      A16S
ATOM  31535  C4*  U   A1495     202.464  86.651 -14.166  1.00 43.02      A16S
ATOM  31536  O4*  U   A1495     201.141  86.095 -14.325  1.00 43.02      A16S
ATOM  31537  C1*  U   A1495     200.673  86.353 -15.636  1.00 43.02      A16S
ATOM  31538  N1   U   A1495     199.373  87.049 -15.563  1.00 62.37      A16S
ATOM  31539  C6   U   A1495     198.952  87.661 -14.402  1.00 62.37      A16S
ATOM  31540  C2   U   A1495     198.573  87.069 -16.706  1.00 62.37      A16S
ATOM  31541  O2   U   A1495     198.898  86.555 -17.768  1.00 62.37      A16S
ATOM  31542  N3   U   A1495     197.376  87.723 -16.557  1.00 62.37      A16S
ATOM  31543  C4   U   A1495     196.902  88.347 -15.425  1.00 62.37      A16S
ATOM  31544  O4   U   A1495     195.801  88.886 -15.452  1.00 62.37      A16S
ATOM  31545  C5   U   A1495     197.777  88.291 -14.299  1.00 62.37      A16S
ATOM  31546  C2*  U   A1495     201.767  87.128 -16.370  1.00 43.02      A16S
ATOM  31547  O2*  U   A1495     202.579  86.212 -17.059  1.00 43.02      A16S
ATOM  31548  C3*  U   A1495     202.551  87.730 -15.225  1.00 43.02      A16S
ATOM  31549  O3*  U   A1495     203.882  87.939 -15.633  1.00 43.02      A16S
ATOM  31550  P    C   A1496     204.282  89.316 -16.356  1.00 36.79      A16S
ATOM  31551  O1P  C   A1496     205.762  89.265 -16.519  1.00 60.23      A16S
ATOM  31552  O2P  C   A1496     203.679  90.435 -15.588  1.00 60.23      A16S
ATOM  31553  O5*  C   A1496     203.579  89.230 -17.789  1.00 36.79      A16S
ATOM  31554  C5*  C   A1496     204.203  88.490 -18.848  1.00 36.79      A16S
ATOM  31555  C4*  C   A1496     203.479  88.686 -20.154  1.00 36.79      A16S
ATOM  31556  O4*  C   A1496     202.162  88.104 -20.066  1.00 36.79      A16S
ATOM  31557  C1*  C   A1496     201.241  88.900 -20.794  1.00 36.79      A16S
ATOM  31558  N1   C   A1496     200.319  89.528 -19.830  1.00 60.23      A16S
ATOM  31559  C6   C   A1496     200.554  89.452 -18.483  1.00 60.23      A16S
ATOM  31560  C2   C   A1496     199.209  90.223 -20.311  1.00 60.23      A16S
ATOM  31561  O2   C   A1496     199.009  90.262 -21.525  1.00 60.23      A16S
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ATOM	31562	N3	C	A1496	198.386	90.835	-19.437	1.00 60.23	A16S
ATOM	31563	C4	C	A1496	198.633	90.765	-18.127	1.00 60.23	A16S
ATOM	31564	N4	C	A1496	197.800	91.394	-17.299	1.00 60.23	A16S
ATOM	31565	C5	C	A1496	199.746	90.051	-17.608	1.00 60.23	A16S
ATOM	31566	C2*	C	A1496	202.048	89.973	-21.522	1.00 36.79	A16S
ATOM	31567	O2*	C	A1496	202.419	89.514	-22.809	1.00 36.79	A16S
ATOM	31568	C3*	C	A1496	203.244	90.116	-20.602	1.00 36.79	A16S
ATOM	31569	O3*	C	A1496	204.356	90.650	-21.290	1.00 36.79	A16S
ATOM	31570	P	G	A1497	205.025	92.008	-20.762	1.00 36.41	A16S
ATOM	31571	O1P	G	A1497	206.407	92.054	-21.290	1.00 65.38	A16S
ATOM	31572	O2P	G	A1497	204.800	92.089	-19.287	1.00 65.38	A16S
ATOM	31573	O5*	G	A1497	204.193	93.160	-21.474	1.00 36.41	A16S
ATOM	31574	C5*	G	A1497	204.284	93.337	-22.876	1.00 36.41	A16S
ATOM	31575	C4*	G	A1497	202.914	93.325	-23.500	1.00 36.41	A16S
ATOM	31576	O4*	G	A1497	201.985	92.530	-22.714	1.00 36.41	A16S
ATOM	31577	C1*	G	A1497	200.668	92.995	-22.938	1.00 36.41	A16S
ATOM	31578	N9	G	A1497	200.027	93.297	-21.663	1.00 65.38	A16S
ATOM	31579	C4	G	A1497	198.726	93.696	-21.502	1.00 65.38	A16S
ATOM	31580	N3	G	A1497	197.823	93.839	-22.488	1.00 65.38	A16S
ATOM	31581	C2	G	A1497	196.659	94.246	-22.035	1.00 65.38	A16S
ATOM	31582	N2	G	A1497	195.645	94.415	-22.891	1.00 65.38	A16S
ATOM	31583	N1	G	A1497	196.403	94.512	-20.711	1.00 65.38	A16S
ATOM	31584	C6	G	A1497	197.323	94.386	-19.678	1.00 65.38	A16S
ATOM	31585	O6	G	A1497	196.997	94.677	-18.520	1.00 65.38	A16S
ATOM	31586	C5	G	A1497	198.574	93.924	-20.154	1.00 65.38	A16S
ATOM	31587	N7	G	A1497	199.751	93.652	-19.474	1.00 65.38	A16S
ATOM	31588	C8	G	A1497	200.582	93.276	-20.408	1.00 65.38	A16S
ATOM	31589	C2*	G	A1497	200.764	94.230	-23.839	1.00 36.41	A16S
ATOM	31590	O2*	G	A1497	200.518	93.836	-25.173	1.00 36.41	A16S
ATOM	31591	C3*	G	A1497	202.214	94.660	-23.657	1.00 36.41	A16S
ATOM	31592	O3*	G	A1497	202.691	95.315	-24.830	1.00 36.41	A16S
ATOM	31593	P	U	A1498	202.622	96.908	-24.929	1.00 32.46	A16S
ATOM	31594	O1P	U	A1498	202.907	97.347	-26.317	1.00 34.36	A16S
ATOM	31595	O2P	U	A1498	203.413	97.459	-23.809	1.00 34.36	A16S
ATOM	31596	O5*	U	A1498	201.087	97.185	-24.652	1.00 32.46	A16S
ATOM	31597	C5*	U	A1498	200.086	96.655	-25.537	1.00 32.46	A16S
ATOM	31598	C4*	U	A1498	198.847	97.503	-25.475	1.00 32.46	A16S
ATOM	31599	O4*	U	A1498	198.135	97.257	-24.245	1.00 32.46	A16S
ATOM	31600	C1*	U	A1498	198.028	98.436	-23.484	1.00 32.46	A16S
ATOM	31601	N1	U	A1498	198.374	98.067	-22.100	1.00 34.36	A16S
ATOM	31602	C6	U	A1498	199.490	97.326	-21.827	1.00 34.36	A16S
ATOM	31603	C2	U	A1498	197.526	98.463	-21.076	1.00 34.36	A16S
ATOM	31604	O2	U	A1498	196.529	99.133	-21.262	1.00 34.36	A16S
ATOM	31605	N3	U	A1498	197.884	98.043	-19.823	1.00 34.36	A16S
ATOM	31606	C4	U	A1498	198.971	97.287	-19.488	1.00 34.36	A16S
ATOM	31607	O4	U	A1498	199.134	96.942	-18.311	1.00 34.36	A16S
ATOM	31608	C5	U	A1498	199.808	96.930	-20.593	1.00 34.36	A16S
ATOM	31609	C2*	U	A1498	198.937	99.495	-24.101	1.00 32.46	A16S
ATOM	31610	O2*	U	A1498	198.328	100.760	-24.028	1.00 32.46	A16S
ATOM	31611	C3*	U	A1498	199.136	98.980	-25.527	1.00 32.46	A16S
ATOM	31612	O3*	U	A1498	198.744	99.611	-26.750	1.00 32.46	A16S
ATOM	31613	P	A	A1499	197.234	100.072	-26.997	1.00 29.48	A16S
ATOM	31614	O1P	A	A1499	197.285	100.944	-28.211	1.00 35.68	A16S
ATOM	31615	O2P	A	A1499	196.639	100.598	-25.734	1.00 35.68	A16S
ATOM	31616	O5*	A	A1499	196.471	98.731	-27.355	1.00 29.48	A16S
ATOM	31617	C5*	A	A1499	195.796	98.608	-28.605	1.00 29.48	A16S
ATOM	31618	C4*	A	A1499	194.302	98.693	-28.412	1.00 29.48	A16S
ATOM	31619	O4*	A	A1499	193.882	97.632	-27.517	1.00 29.48	A16S
ATOM	31620	C1*	A	A1499	192.796	98.069	-26.732	1.00 29.48	A16S
ATOM	31621	N9	A	A1499	193.253	98.108	-25.350	1.00 35.68	A16S
ATOM	31622	C4	A	A1499	192.512	98.484	-24.260	1.00 35.68	A16S
ATOM	31623	N3	A	A1499	191.225	98.848	-24.240	1.00 35.68	A16S
ATOM	31624	C2	A	A1499	190.867	99.198	-23.017	1.00 35.68	A16S
ATOM	31625	N1	A	A1499	191.587	99.214	-21.903	1.00 35.68	A16S
ATOM	31626	C6	A	A1499	192.869	98.830	-21.963	1.00 35.68	A16S
ATOM	31627	N6	A	A1499	193.587	98.833	-20.853	1.00 35.68	A16S
ATOM	31628	C5	A	A1499	193.375	98.448	-23.193	1.00 35.68	A16S
ATOM	31629	N7	A	A1499	194.633	98.031	-23.591	1.00 35.68	A16S
ATOM	31630	C8	A	A1499	194.505	97.830	-24.874	1.00 35.68	A16S
ATOM	31631	C2*	A	A1499	192.416	99.464	-27.227	1.00 29.48	A16S
ATOM	31632	O2*	A	A1499	191.458	99.303	-28.246	1.00 29.48	A16S
ATOM	31633	C3*	A	A1499	193.737	99.962	-27.791	1.00 29.48	A16S
ATOM	31634	O3*	A	A1499	193.549	100.987	-28.759	1.00 29.48	A16S
ATOM	31635	P	A	A1500	193.508	102.523	-28.294	1.00 24.20	A16S
ATOM	31636	O1P	A	A1500	193.345	103.366	-29.506	1.00 39.66	A16S
ATOM	31637	O2P	A	A1500	194.608	102.801	-27.336	1.00 39.66	A16S
ATOM	31638	O5*	A	A1500	192.177	102.600	-27.438	1.00 24.20	A16S

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ATOM  31639  C5* A   A1500     190.892 102.326 -28.038  1.00 24.20      A16S
ATOM  31640  C4* A   A1500     189.776 102.635 -27.064  1.00 24.20      A16S
ATOM  31641  O4* A   A1500     189.804 101.704 -25.955  1.00 24.20      A16S
ATOM  31642  C1* A   A1500     189.566 102.395 -24.746  1.00 24.20      A16S
ATOM  31643  N9  A   A1500     190.797 102.357 -23.951  1.00 39.66      A16S
ATOM  31644  C4  A   A1500     190.917 102.707 -22.629  1.00 39.66      A16S
ATOM  31645  N3  A   A1500     189.949 103.160 -21.816  1.00 39.66      A16S
ATOM  31646  C2  A   A1500     190.434 103.404 -20.600  1.00 39.66      A16S
ATOM  31647  N1  A   A1500     191.677 103.252 -20.139  1.00 39.66      A16S
ATOM  31648  C6  A   A1500     192.623 102.788 -20.972  1.00 39.66      A16S
ATOM  31649  N6  A   A1500     193.854 102.623 -20.490  1.00 39.66      A16S
ATOM  31650  C5  A   A1500     192.242 102.500 -22.300  1.00 39.66      A16S
ATOM  31651  N7  A   A1500     192.952 102.035 -23.400  1.00 39.66      A16S
ATOM  31652  C8  A   A1500     192.055 101.971 -24.349  1.00 39.66      A16S
ATOM  31653  C2* A   A1500     189.164 103.816 -25.119  1.00 24.20      A16S
ATOM  31654  O2* A   A1500     187.778 103.836 -25.350  1.00 24.20      A16S
ATOM  31655  C3* A   A1500     189.895 103.998 -26.427  1.00 24.20      A16S
ATOM  31656  O3* A   A1500     189.294 104.970 -27.234  1.00 24.20      A16S
ATOM  31657  P   C   A1501     189.862 106.461 -27.199  1.00 17.85      A16S
ATOM  31658  O1P C   A1501     189.057 107.272 -28.165  1.00 38.35      A16S
ATOM  31659  O2P C   A1501     191.346 106.433 -27.317  1.00 38.35      A16S
ATOM  31660  O5* C   A1501     189.503 106.950 -25.733  1.00 17.85      A16S
ATOM  31661  C5* C   A1501     188.140 107.041 -25.321  1.00 17.85      A16S
ATOM  31662  C4* C   A1501     188.053 107.548 -23.914  1.00 17.85      A16S
ATOM  31663  O4* C   A1501     188.652 106.595 -23.013  1.00 17.85      A16S
ATOM  31664  C1* C   A1501     189.176 107.286 -21.896  1.00 17.85      A16S
ATOM  31665  N1  C   A1501     190.580 106.897 -21.706  1.00 38.35      A16S
ATOM  31666  C6  C   A1501     191.283 106.301 -22.704  1.00 38.35      A16S
ATOM  31667  C2  C   A1501     191.173 107.130 -20.471  1.00 38.35      A16S
ATOM  31668  O2  C   A1501     190.526 107.715 -19.586  1.00 38.35      A16S
ATOM  31669  N3  C   A1501     192.432 106.724 -20.265  1.00 38.35      A16S
ATOM  31670  C4  C   A1501     193.100 106.121 -21.236  1.00 38.35      A16S
ATOM  31671  N4  C   A1501     194.340 105.721 -20.978  1.00 38.35      A16S
ATOM  31672  C5  C   A1501     192.530 105.898 -22.513  1.00 38.35      A16S
ATOM  31673  C2* C   A1501     188.946 108.784 -22.107  1.00 17.85      A16S
ATOM  31674  O2* C   A1501     187.780 109.170 -21.395  1.00 17.85      A16S
ATOM  31675  C3* C   A1501     188.767 108.847 -23.613  1.00 17.85      A16S
ATOM  31676  O3* C   A1501     187.977 109.927 -24.006  1.00 17.85      A16S
ATOM  31677  P   A   A1502     188.478 110.842 -25.197  1.00 30.92      A16S
ATOM  31678  O1P A   A1502     187.362 111.728 -25.589  1.00 42.29      A16S
ATOM  31679  O2P A   A1502     189.129 109.994 -26.223  1.00 42.29      A16S
ATOM  31680  O5* A   A1502     189.615 111.706 -24.518  1.00 30.92      A16S
ATOM  31681  C5* A   A1502     189.358 113.054 -24.194  1.00 30.92      A16S
ATOM  31682  C4* A   A1502     190.588 113.894 -24.383  1.00 30.92      A16S
ATOM  31683  O4* A   A1502     191.402 113.881 -23.196  1.00 30.92      A16S
ATOM  31684  C1* A   A1502     192.736 113.972 -23.582  1.00 30.92      A16S
ATOM  31685  N9  A   A1502     193.573 113.633 -22.438  1.00 42.29      A16S
ATOM  31686  C4  A   A1502     194.615 112.770 -22.373  1.00 42.29      A16S
ATOM  31687  N3  A   A1502     195.064 111.992 -23.355  1.00 42.29      A16S
ATOM  31688  C2  A   A1502     196.098 111.305 -22.938  1.00 42.29      A16S
ATOM  31689  N1  A   A1502     196.700 111.318 -21.732  1.00 42.29      A16S
ATOM  31690  C6  A   A1502     196.212 112.133 -20.772  1.00 42.29      A16S
ATOM  31691  N6  A   A1502     196.810 112.184 -19.579  1.00 42.29      A16S
ATOM  31692  C5  A   A1502     195.118 112.884 -21.086  1.00 42.29      A16S
ATOM  31693  N7  A   A1502     194.383 113.777 -20.341  1.00 42.29      A16S
ATOM  31694  C8  A   A1502     193.474 114.189 -21.181  1.00 42.29      A16S
ATOM  31695  C2* A   A1502     192.809 113.173 -24.873  1.00 30.92      A16S
ATOM  31696  O2* A   A1502     193.925 113.632 -25.584  1.00 30.92      A16S
ATOM  31697  C3* A   A1502     191.520 113.629 -25.559  1.00 30.92      A16S
ATOM  31698  O3* A   A1502     191.753 114.892 -26.158  1.00 30.92      A16S
ATOM  31699  P   A   A1503     190.970 115.286 -27.492  1.00 34.65      A16S
ATOM  31700  O1P A   A1503     191.192 116.729 -27.752  1.00 72.60      A16S
ATOM  31701  O2P A   A1503     189.586 114.755 -27.432  1.00 72.60      A16S
ATOM  31702  O5* A   A1503     191.768 114.449 -28.570  1.00 34.65      A16S
ATOM  31703  C5* A   A1503     191.079 113.723 -29.604  1.00 34.65      A16S
ATOM  31704  C4* A   A1503     192.083 113.141 -30.568  1.00 34.65      A16S
ATOM  31705  O4* A   A1503     192.784 114.232 -31.229  1.00 34.65      A16S
ATOM  31706  C1* A   A1503     194.156 114.165 -30.930  1.00 34.65      A16S
ATOM  31707  N9  A   A1503     194.654 115.539 -30.880  1.00 72.60      A16S
ATOM  31708  C4  A   A1503     195.239 116.175 -31.947  1.00 72.60      A16S
ATOM  31709  N3  A   A1503     195.489 115.661 -33.164  1.00 72.60      A16S
ATOM  31710  C2  A   A1503     196.042 116.571 -33.957  1.00 72.60      A16S
ATOM  31711  N1  A   A1503     196.348 117.842 -33.698  1.00 72.60      A16S
ATOM  31712  C6  A   A1503     196.085 118.332 -32.469  1.00 72.60      A16S
ATOM  31713  N6  A   A1503     196.387 119.607 -32.220  1.00 72.60      A16S
ATOM  31714  C5  A   A1503     195.501 117.460 -31.525  1.00 72.60      A16S
ATOM  31715  N7  A   A1503     195.111 117.628 -30.202  1.00 72.60      A16S
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ATOM  31716  C8  A   A1503     194.623 116.460 -29.866  1.00 72.60      A16S
ATOM  31717  C2* A   A1503     194.281 113.294 -29.677  1.00 34.65      A16S
ATOM  31718  O2* A   A1503     195.569 112.726 -29.531  1.00 34.65      A16S
ATOM  31719  C3* A   A1503     193.143 112.290 -29.891  1.00 34.65      A16S
ATOM  31720  O3* A   A1503     193.465 111.226 -30.790  1.00 34.65      A16S
ATOM  31721  P   G   A1504     193.606 109.728 -30.236  1.00 25.08      A16S
ATOM  31722  O1P G   A1504     193.968 108.809 -31.332  1.00 51.78      A16S
ATOM  31723  O2P G   A1504     192.442 109.402 -29.388  1.00 51.78      A16S
ATOM  31724  O5* G   A1504     194.902 109.853 -29.338  1.00 25.08      A16S
ATOM  31725  C5* G   A1504     194.809 110.005 -27.944  1.00 25.08      A16S
ATOM  31726  C4* G   A1504     195.511 108.870 -27.300  1.00 25.08      A16S
ATOM  31727  O4* G   A1504     195.393 109.047 -25.888  1.00 25.08      A16S
ATOM  31728  C1* G   A1504     194.754 107.932 -25.295  1.00 25.08      A16S
ATOM  31729  N9  G   A1504     193.808 108.489 -24.333  1.00 51.78      A16S
ATOM  31730  C4  G   A1504     194.026 108.687 -22.990  1.00 51.78      A16S
ATOM  31731  N3  G   A1504     195.122 108.320 -22.302  1.00 51.78      A16S
ATOM  31732  C2  G   A1504     195.046 108.684 -21.037  1.00 51.78      A16S
ATOM  31733  N2  G   A1504     196.035 108.398 -20.199  1.00 51.78      A16S
ATOM  31734  N1  G   A1504     193.995 109.357 -20.495  1.00 51.78      A16S
ATOM  31735  C6  G   A1504     192.864 109.752 -21.184  1.00 51.78      A16S
ATOM  31736  O6  G   A1504     191.979 110.384 -20.599  1.00 51.78      A16S
ATOM  31737  C5  G   A1504     192.916 109.354 -22.537  1.00 51.78      A16S
ATOM  31738  N7  G   A1504     191.996 109.528 -23.558  1.00 51.78      A16S
ATOM  31739  C8  G   A1504     192.561 108.988 -24.599  1.00 51.78      A16S
ATOM  31740  C2* G   A1504     194.139 107.056 -26.396  1.00 25.08      A16S
ATOM  31741  O2* G   A1504     194.367 105.687 -26.095  1.00 25.08      A16S
ATOM  31742  C3* G   A1504     194.920 107.512 -27.624  1.00 25.08      A16S
ATOM  31743  O3* G   A1504     195.485 106.683 -28.661  1.00 25.08      A16S
ATOM  31744  P   G   A1505     196.478 105.462 -28.299  1.00 31.07      A16S
ATOM  31745  O1P G   A1505     195.967 104.230 -28.929  1.00 33.01      A16S
ATOM  31746  O2P G   A1505     196.715 105.471 -26.850  1.00 33.01      A16S
ATOM  31747  O5* G   A1505     197.826 105.873 -29.049  1.00 31.07      A16S
ATOM  31748  C5* G   A1505     197.782 106.594 -30.312  1.00 31.07      A16S
ATOM  31749  C4* G   A1505     198.877 107.639 -30.369  1.00 31.07      A16S
ATOM  31750  O4* G   A1505     198.639 108.594 -29.322  1.00 31.07      A16S
ATOM  31751  C1* G   A1505     199.836 108.901 -28.655  1.00 31.07      A16S
ATOM  31752  N9  G   A1505     199.643 108.547 -27.254  1.00 33.01      A16S
ATOM  31753  C4  G   A1505     199.189 109.387 -26.269  1.00 33.01      A16S
ATOM  31754  N3  G   A1505     198.908 110.699 -26.413  1.00 33.01      A16S
ATOM  31755  C2  G   A1505     198.465 111.232 -25.291  1.00 33.01      A16S
ATOM  31756  N2  G   A1505     198.115 112.526 -25.255  1.00 33.01      A16S
ATOM  31757  N1  G   A1505     198.326 110.538 -24.122  1.00 33.01      A16S
ATOM  31758  C6  G   A1505     198.609 109.195 -23.948  1.00 33.01      A16S
ATOM  31759  O6  G   A1505     198.447 108.675 -22.843  1.00 33.01      A16S
ATOM  31760  C5  G   A1505     199.073 108.605 -25.143  1.00 33.01      A16S
ATOM  31761  N7  G   A1505     199.476 107.308 -25.404  1.00 33.01      A16S
ATOM  31762  C8  G   A1505     199.815 107.323 -26.665  1.00 33.01      A16S
ATOM  31763  C2* G   A1505     200.979 108.233 -29.412  1.00 31.07      A16S
ATOM  31764  O2* G   A1505     201.489 109.194 -30.307  1.00 31.07      A16S
ATOM  31765  C3* G   A1505     200.272 107.093 -30.141  1.00 31.07      A16S
ATOM  31766  O3* G   A1505     200.901 106.904 -31.411  1.00 31.07      A16S
ATOM  31767  P   U   A1506     200.607 105.582 -32.288  1.00 37.00      A16S
ATOM  31768  O1P U   A1506     200.259 104.420 -31.386  1.00 44.44      A16S
ATOM  31769  O2P U   A1506     201.736 105.453 -33.258  1.00 44.44      A16S
ATOM  31770  O5* U   A1506     199.345 106.003 -33.160  1.00 37.00      A16S
ATOM  31771  C5* U   A1506     199.424 107.141 -34.044  1.00 37.00      A16S
ATOM  31772  C4* U   A1506     198.384 107.027 -35.131  1.00 37.00      A16S
ATOM  31773  O4* U   A1506     198.462 105.686 -35.667  1.00 37.00      A16S
ATOM  31774  C1* U   A1506     197.210 105.074 -35.581  1.00 37.00      A16S
ATOM  31775  N1  U   A1506     197.430 103.631 -35.442  1.00 44.44      A16S
ATOM  31776  C6  U   A1506     197.664 103.042 -34.236  1.00 44.44      A16S
ATOM  31777  C2  U   A1506     197.392 102.890 -36.598  1.00 44.44      A16S
ATOM  31778  O2  U   A1506     197.219 103.394 -37.700  1.00 44.44      A16S
ATOM  31779  N3  U   A1506     197.582 101.543 -36.432  1.00 44.44      A16S
ATOM  31780  C4  U   A1506     197.827 100.886 -35.253  1.00 44.44      A16S
ATOM  31781  O4  U   A1506     198.077  99.681 -35.269  1.00 44.44      A16S
ATOM  31782  C5  U   A1506     197.860 101.729 -34.103  1.00 44.44      A16S
ATOM  31783  C2* U   A1506     196.449 105.814 -34.479  1.00 37.00      A16S
ATOM  31784  O2* U   A1506     195.042 105.722 -34.628  1.00 37.00      A16S
ATOM  31785  C3* U   A1506     196.936 107.234 -34.706  1.00 37.00      A16S
ATOM  31786  O3* U   A1506     196.213 107.738 -35.824  1.00 37.00      A16S
ATOM  31787  P   A   A1507     195.720 109.264 -35.853  1.00 29.86      A16S
ATOM  31788  O1P A   A1507     195.131 109.565 -37.192  1.00 45.41      A16S
ATOM  31789  O2P A   A1507     196.821 110.116 -35.321  1.00 45.41      A16S
ATOM  31790  O5* A   A1507     194.519 109.319 -34.816  1.00 29.86      A16S
ATOM  31791  C5* A   A1507     193.397 108.435 -34.931  1.00 29.86      A16S
ATOM  31792  C4* A   A1507     192.363 108.800 -33.903  1.00 29.86      A16S
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ATOM  31793  O4*  A   A1507     191.631 109.971 -34.334  1.00 29.86      A16S
ATOM  31794  C1*  A   A1507     190.277 109.853 -33.958  1.00 29.86      A16S
ATOM  31795  N9   A   A1507     189.485 109.822 -35.184  1.00 45.41      A16S
ATOM  31796  C4   A   A1507     188.119 109.738 -35.296  1.00 45.41      A16S
ATOM  31797  N3   A   A1507     187.217 109.667 -34.304  1.00 45.41      A16S
ATOM  31798  C2   A   A1507     185.984 109.595 -34.796  1.00 45.41      A16S
ATOM  31799  N1   A   A1507     185.580 109.574 -36.068  1.00 45.41      A16S
ATOM  31800  C6   A   A1507     186.513 109.632 -37.036  1.00 45.41      A16S
ATOM  31801  N6   A   A1507     186.119 109.583 -38.302  1.00 45.41      A16S
ATOM  31802  C5   A   A1507     187.852 109.729 -36.649  1.00 45.41      A16S
ATOM  31803  N7   A   A1507     189.024 109.811 -37.379  1.00 45.41      A16S
ATOM  31804  C8   A   A1507     189.960 109.862 -36.466  1.00 45.41      A16S
ATOM  31805  C2*  A   A1507     190.148 108.574 -33.132  1.00 29.86      A16S
ATOM  31806  O2*  A   A1507     190.316 108.885 -31.762  1.00 29.86      A16S
ATOM  31807  C3*  A   A1507     191.304 107.753 -33.670  1.00 29.86      A16S
ATOM  31808  O3*  A   A1507     191.789 106.806 -32.748  1.00 29.86      A16S
ATOM  31809  P    G   A1508     191.461 105.258 -32.972  1.00 29.50      A16S
ATOM  31810  O1P  G   A1508     192.378 104.473 -32.101  1.00 32.31      A16S
ATOM  31811  O2P  G   A1508     191.403 104.968 -34.414  1.00 32.31      A16S
ATOM  31812  O5*  G   A1508     189.978 105.121 -32.418  1.00 29.50      A16S
ATOM  31813  C5*  G   A1508     189.655 105.475 -31.061  1.00 29.50      A16S
ATOM  31814  C4*  G   A1508     188.157 105.557 -30.882  1.00 29.50      A16S
ATOM  31815  O4*  G   A1508     187.625 106.647 -31.674  1.00 29.50      A16S
ATOM  31816  C1*  G   A1508     186.331 106.314 -32.126  1.00 29.50      A16S
ATOM  31817  N9   G   A1508     186.318 106.350 -33.580  1.00 32.31      A16S
ATOM  31818  C4   G   A1508     185.235 106.618 -34.376  1.00 32.31      A16S
ATOM  31819  N3   G   A1508     183.993 106.912 -33.951  1.00 32.31      A16S
ATOM  31820  C2   G   A1508     183.171 107.135 -34.962  1.00 32.31      A16S
ATOM  31821  N2   G   A1508     181.901 107.465 -34.735  1.00 32.31      A16S
ATOM  31822  N1   G   A1508     183.536 107.060 -36.274  1.00 32.31      A16S
ATOM  31823  C6   G   A1508     184.804 106.762 -36.728  1.00 32.31      A16S
ATOM  31824  O6   G   A1508     185.024 106.743 -37.928  1.00 32.31      A16S
ATOM  31825  C5   G   A1508     185.698 106.525 -35.665  1.00 32.31      A16S
ATOM  31826  N7   G   A1508     187.043 106.199 -35.682  1.00 32.31      A16S
ATOM  31827  C8   G   A1508     187.367 106.110 -34.424  1.00 32.31      A16S
ATOM  31828  C2*  G   A1508     185.988 104.929 -31.581  1.00 29.50      A16S
ATOM  31829  O2*  G   A1508     185.283 105.065 -30.363  1.00 29.50      A16S
ATOM  31830  C3*  G   A1508     187.362 104.342 -31.329  1.00 29.50      A16S
ATOM  31831  O3*  G   A1508     187.299 103.372 -30.300  1.00 29.50      A16S
ATOM  31832  P    C   A1509     186.723 101.905 -30.620  1.00 21.98      A16S
ATOM  31833  O1P  C   A1509     186.603 101.143 -29.319  1.00 32.60      A16S
ATOM  31834  O2P  C   A1509     187.521 101.325 -31.737  1.00 32.60      A16S
ATOM  31835  O5*  C   A1509     185.248 102.189 -31.147  1.00 21.98      A16S
ATOM  31836  C5*  C   A1509     184.200 102.438 -30.218  1.00 21.98      A16S
ATOM  31837  C4*  C   A1509     182.929 102.757 -30.938  1.00 21.98      A16S
ATOM  31838  O4*  C   A1509     183.152 103.842 -31.865  1.00 21.98      A16S
ATOM  31839  C1*  C   A1509     182.307 103.689 -32.987  1.00 21.98      A16S
ATOM  31840  N1   C   A1509     183.133 103.599 -34.189  1.00 32.60      A16S
ATOM  31841  C6   C   A1509     184.469 103.344 -34.107  1.00 32.60      A16S
ATOM  31842  C2   C   A1509     182.530 103.792 -35.422  1.00 32.60      A16S
ATOM  31843  O2   C   A1509     181.313 103.965 -35.467  1.00 32.60      A16S
ATOM  31844  N3   C   A1509     183.279 103.771 -36.535  1.00 32.60      A16S
ATOM  31845  C4   C   A1509     184.582 103.542 -36.448  1.00 32.60      A16S
ATOM  31846  N4   C   A1509     185.287 103.544 -37.574  1.00 32.60      A16S
ATOM  31847  C5   C   A1509     185.223 103.305 -35.202  1.00 32.60      A16S
ATOM  31848  C2*  C   A1509     181.494 102.422 -32.778  1.00 21.98      A16S
ATOM  31849  O2*  C   A1509     180.266 102.790 -32.199  1.00 21.98      A16S
ATOM  31850  C3*  C   A1509     182.378 101.661 -31.809  1.00 21.98      A16S
ATOM  31851  O3*  C   A1509     181.658 100.726 -31.061  1.00 21.98      A16S
ATOM  31852  P    U   A1510     181.621  99.212 -31.567  1.00 24.25      A16S
ATOM  31853  O1P  U   A1510     180.828  98.399 -30.607  1.00 41.53      A16S
ATOM  31854  O2P  U   A1510     183.020  98.823 -31.867  1.00 41.53      A16S
ATOM  31855  O5*  U   A1510     180.810  99.320 -32.927  1.00 24.25      A16S
ATOM  31856  C5*  U   A1510     179.504  99.860 -32.910  1.00 24.25      A16S
ATOM  31857  C4*  U   A1510     178.983 100.008 -34.301  1.00 24.25      A16S
ATOM  31858  O4*  U   A1510     179.751 100.994 -35.026  1.00 24.25      A16S
ATOM  31859  C1*  U   A1510     179.758 100.655 -36.403  1.00 24.25      A16S
ATOM  31860  N1   U   A1510     181.153 100.513 -36.823  1.00 41.53      A16S
ATOM  31861  C6   U   A1510     182.138 100.223 -35.917  1.00 41.53      A16S
ATOM  31862  C2   U   A1510     181.432 100.686 -38.152  1.00 41.53      A16S
ATOM  31863  O2   U   A1510     180.575 100.937 -38.979  1.00 41.53      A16S
ATOM  31864  N3   U   A1510     182.753 100.556 -38.480  1.00 41.53      A16S
ATOM  31865  C4   U   A1510     183.796 100.279 -37.620  1.00 41.53      A16S
ATOM  31866  O4   U   A1510     184.947 100.224 -38.057  1.00 41.53      A16S
ATOM  31867  C5   U   A1510     183.412 100.105 -36.259  1.00 41.53      A16S
ATOM  31868  C2*  U   A1510     178.968  99.355 -36.573  1.00 24.25      A16S
ATOM  31869  O2*  U   A1510     177.637  99.633 -36.968  1.00 24.25      A16S
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ATOM  31870  C3* U   A1510     179.052  98.774 -35.171  1.00 24.25      A16S
ATOM  31871  O3* U   A1510     178.002  97.895 -34.883  1.00 24.25      A16S
ATOM  31872  P   G   A1511     178.316  96.336 -34.740  1.00 26.09      A16S
ATOM  31873  O1P G   A1511     177.365  95.805 -33.729  1.00 38.46      A16S
ATOM  31874  O2P G   A1511     179.770  96.129 -34.537  1.00 38.46      A16S
ATOM  31875  O5* G   A1511     177.917  95.784 -36.184  1.00 26.09      A16S
ATOM  31876  C5* G   A1511     176.548  95.832 -36.629  1.00 26.09      A16S
ATOM  31877  C4* G   A1511     176.451  95.519 -38.104  1.00 26.09      A16S
ATOM  31878  O4* G   A1511     176.955  96.629 -38.872  1.00 26.09      A16S
ATOM  31879  C1* G   A1511     177.606  96.163 -40.028  1.00 26.09      A16S
ATOM  31880  N9  G   A1511     179.009  96.552 -39.914  1.00 38.46      A16S
ATOM  31881  C4  G   A1511     179.918  96.681 -40.930  1.00 38.46      A16S
ATOM  31882  N3  G   A1511     179.680  96.467 -42.235  1.00 38.46      A16S
ATOM  31883  C2  G   A1511     180.754  96.662 -42.967  1.00 38.46      A16S
ATOM  31884  N2  G   A1511     180.695  96.483 -44.286  1.00 38.46      A16S
ATOM  31885  N1  G   A1511     181.965  97.045 -42.459  1.00 38.46      A16S
ATOM  31886  C6  G   A1511     182.233  97.265 -41.115  1.00 38.46      A16S
ATOM  31887  O6  G   A1511     183.367  97.590 -40.754  1.00 38.46      A16S
ATOM  31888  C5  G   A1511     181.093  97.060 -40.323  1.00 38.46      A16S
ATOM  31889  N7  G   A1511     180.929  97.169 -38.954  1.00 38.46      A16S
ATOM  31890  C8  G   A1511     179.680  96.859 -38.757  1.00 38.46      A16S
ATOM  31891  C2* G   A1511     177.403  94.651 -40.070  1.00 26.09      A16S
ATOM  31892  O2* G   A1511     176.222  94.365 -40.786  1.00 26.09      A16S
ATOM  31893  C3* G   A1511     177.221  94.320 -38.604  1.00 26.09      A16S
ATOM  31894  O3* G   A1511     176.471  93.132 -38.451  1.00 26.09      A16S
ATOM  31895  P   U   A1512     177.241  91.747 -38.209  1.00 22.36      A16S
ATOM  31896  O1P U   A1512     176.288  90.610 -38.101  1.00 36.59      A16S
ATOM  31897  O2P U   A1512     178.193  92.004 -37.095  1.00 36.59      A16S
ATOM  31898  O5* U   A1512     178.050  91.575 -39.571  1.00 22.36      A16S
ATOM  31899  C5* U   A1512     177.373  91.589 -40.850  1.00 22.36      A16S
ATOM  31900  C4* U   A1512     178.382  91.580 -41.973  1.00 22.36      A16S
ATOM  31901  O4* U   A1512     179.009  92.875 -42.095  1.00 22.36      A16S
ATOM  31902  C1* U   A1512     180.349  92.716 -42.512  1.00 22.36      A16S
ATOM  31903  N1  U   A1512     181.227  93.326 -41.504  1.00 36.59      A16S
ATOM  31904  C6  U   A1512     180.856  93.450 -40.195  1.00 36.59      A16S
ATOM  31905  C2  U   A1512     182.455  93.753 -41.926  1.00 36.59      A16S
ATOM  31906  O2  U   A1512     182.813  93.662 -43.088  1.00 36.59      A16S
ATOM  31907  N3  U   A1512     183.258  94.284 -40.946  1.00 36.59      A16S
ATOM  31908  C4  U   A1512     182.955  94.429 -39.617  1.00 36.59      A16S
ATOM  31909  O4  U   A1512     183.772  94.959 -38.856  1.00 36.59      A16S
ATOM  31910  C5  U   A1512     181.656  93.968 -39.262  1.00 36.59      A16S
ATOM  31911  C2* U   A1512     180.620  91.217 -42.680  1.00 22.36      A16S
ATOM  31912  O2* U   A1512     180.510  90.809 -44.028  1.00 22.36      A16S
ATOM  31913  C3* U   A1512     179.537  90.609 -41.809  1.00 22.36      A16S
ATOM  31914  O3* U   A1512     179.179  89.337 -42.282  1.00 22.36      A16S
ATOM  31915  P   A   A1513     180.019  88.058 -41.828  1.00 29.76      A16S
ATOM  31916  O1P A   A1513     179.340  86.894 -42.451  1.00 33.28      A16S
ATOM  31917  O2P A   A1513     180.234  88.089 -40.360  1.00 33.28      A16S
ATOM  31918  O5* A   A1513     181.423  88.286 -42.533  1.00 29.76      A16S
ATOM  31919  C5* A   A1513     181.576  88.114 -43.944  1.00 29.76      A16S
ATOM  31920  C4* A   A1513     183.008  88.367 -44.334  1.00 29.76      A16S
ATOM  31921  O4* A   A1513     183.313  89.777 -44.170  1.00 29.76      A16S
ATOM  31922  C1* A   A1513     184.688  89.919 -43.879  1.00 29.76      A16S
ATOM  31923  N9  A   A1513     184.847  90.661 -42.640  1.00 33.28      A16S
ATOM  31924  C4  A   A1513     185.926  91.449 -42.356  1.00 33.28      A16S
ATOM  31925  N3  A   A1513     186.956  91.723 -43.165  1.00 33.28      A16S
ATOM  31926  C2  A   A1513     187.852  92.463 -42.537  1.00 33.28      A16S
ATOM  31927  N1  A   A1513     187.838  92.925 -41.288  1.00 33.28      A16S
ATOM  31928  C6  A   A1513     186.787  92.632 -40.504  1.00 33.28      A16S
ATOM  31929  N6  A   A1513     186.787  93.084 -39.252  1.00 33.28      A16S
ATOM  31930  C5  A   A1513     185.762  91.858 -41.056  1.00 33.28      A16S
ATOM  31931  N7  A   A1513     184.568  91.379 -40.542  1.00 33.28      A16S
ATOM  31932  C8  A   A1513     184.059  90.687 -41.526  1.00 33.28      A16S
ATOM  31933  C2* A   A1513     185.302  88.522 -43.729  1.00 29.76      A16S
ATOM  31934  O2* A   A1513     186.030  88.184 -44.885  1.00 29.76      A16S
ATOM  31935  C3* A   A1513     184.074  87.649 -43.514  1.00 29.76      A16S
ATOM  31936  O3* A   A1513     184.303  86.320 -43.973  1.00 29.76      A16S
ATOM  31937  P   C   A1514     184.959  85.224 -42.987  1.00 28.51      A16S
ATOM  31938  O1P C   A1514     184.779  83.890 -43.618  1.00 41.95      A16S
ATOM  31939  O2P C   A1514     184.450  85.444 -41.615  1.00 41.95      A16S
ATOM  31940  O5* C   A1514     186.514  85.575 -43.006  1.00 28.51      A16S
ATOM  31941  C5* C   A1514     187.285  85.377 -44.201  1.00 28.51      A16S
ATOM  31942  C4* C   A1514     188.687  85.915 -44.041  1.00 28.51      A16S
ATOM  31943  O4* C   A1514     188.658  87.355 -43.891  1.00 28.51      A16S
ATOM  31944  C1* C   A1514     189.728  87.767 -43.061  1.00 28.51      A16S
ATOM  31945  N1  C   A1514     189.155  88.417 -41.866  1.00 41.95      A16S
ATOM  31946  C6  C   A1514     187.939  88.035 -41.387  1.00 41.95      A16S
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ATOM  31947  C2  C   A1514     189.870  89.430 -41.229  1.00 41.95      A16S
ATOM  31948  O2  C   A1514     190.987  89.741 -41.655  1.00 41.95      A16S
ATOM  31949  N3  C   A1514     189.331  90.041 -40.159  1.00 41.95      A16S
ATOM  31950  C4  C   A1514     188.140  89.662 -39.712  1.00 41.95      A16S
ATOM  31951  N4  C   A1514     187.640  90.294 -38.659  1.00 41.95      A16S
ATOM  31952  C5  C   A1514     187.406  88.622 -40.324  1.00 41.95      A16S
ATOM  31953  C2* C   A1514     190.534  86.515 -42.706  1.00 28.51      A16S
ATOM  31954  O2* C   A1514     191.588  86.307 -43.633  1.00 28.51      A16S
ATOM  31955  C3* C   A1514     189.486  85.431 -42.850  1.00 28.51      A16S
ATOM  31956  O3* C   A1514     190.110  84.200 -43.093  1.00 28.51      A16S
ATOM  31957  P   C   A1515     190.512  83.270 -41.857  1.00 31.15      A16S
ATOM  31958  O1P C   A1515     191.050  82.056 -42.518  1.00 47.07      A16S
ATOM  31959  O2P C   A1515     189.384  83.144 -40.891  1.00 47.07      A16S
ATOM  31960  O5* C   A1515     191.701  84.058 -41.154  1.00 31.15      A16S
ATOM  31961  C5* C   A1515     192.975  84.134 -41.800  1.00 31.15      A16S
ATOM  31962  C4* C   A1515     193.908  85.039 -41.047  1.00 31.15      A16S
ATOM  31963  O4* C   A1515     193.347  86.372 -41.002  1.00 31.15      A16S
ATOM  31964  C1* C   A1515     193.710  86.997 -39.787  1.00 31.15      A16S
ATOM  31965  N1  C   A1515     192.484  87.342 -39.042  1.00 47.07      A16S
ATOM  31966  C6  C   A1515     191.279  86.789 -39.367  1.00 47.07      A16S
ATOM  31967  C2  C   A1515     192.577  88.243 -37.977  1.00 47.07      A16S
ATOM  31968  O2  C   A1515     193.680  88.743 -37.707  1.00 47.07      A16S
ATOM  31969  N3  C   A1515     191.468  88.543 -37.266  1.00 47.07      A16S
ATOM  31970  C4  C   A1515     190.305  87.980 -37.581  1.00 47.07      A16S
ATOM  31971  N4  C   A1515     189.246  88.283 -36.837  1.00 47.07      A16S
ATOM  31972  C5  C   A1515     190.177  87.077 -38.668  1.00 47.07      A16S
ATOM  31973  C2* C   A1515     194.606  86.021 -39.025  1.00 31.15      A16S
ATOM  31974  O2* C   A1515     195.945  86.284 -39.367  1.00 31.15      A16S
ATOM  31975  C3* C   A1515     194.168  84.685 -39.597  1.00 31.15      A16S
ATOM  31976  O3* C   A1515     195.182  83.702 -39.458  1.00 31.15      A16S
ATOM  31977  P   G   A1516     195.278  82.851 -38.095  1.00 31.15      A16S
ATOM  31978  O1P G   A1516     196.382  81.862 -38.235  1.00 49.40      A16S
ATOM  31979  O2P G   A1516     193.915  82.380 -37.730  1.00 49.40      A16S
ATOM  31980  O5* G   A1516     195.758  83.937 -37.034  1.00 31.15      A16S
ATOM  31981  C5* G   A1516     197.025  84.624 -37.204  1.00 31.15      A16S
ATOM  31982  C4* G   A1516     197.309  85.526 -36.023  1.00 31.15      A16S
ATOM  31983  O4* G   A1516     196.446  86.687 -36.060  1.00 31.15      A16S
ATOM  31984  C1* G   A1516     196.067  87.041 -34.742  1.00 31.15      A16S
ATOM  31985  N9  G   A1516     194.617  86.915 -34.613  1.00 49.40      A16S
ATOM  31986  C4  G   A1516     193.815  87.583 -33.710  1.00 49.40      A16S
ATOM  31987  N3  G   A1516     194.224  88.516 -32.820  1.00 49.40      A16S
ATOM  31988  C2  G   A1516     193.232  88.953 -32.068  1.00 49.40      A16S
ATOM  31989  N2  G   A1516     193.468  89.879 -31.126  1.00 49.40      A16S
ATOM  31990  N1  G   A1516     191.936  88.512 -32.177  1.00 49.40      A16S
ATOM  31991  C6  G   A1516     191.489  87.548 -33.076  1.00 49.40      A16S
ATOM  31992  O6  G   A1516     190.292  87.204 -33.072  1.00 49.40      A16S
ATOM  31993  C5  G   A1516     192.550  87.074 -33.899  1.00 49.40      A16S
ATOM  31994  N7  G   A1516     192.547  86.133 -34.920  1.00 49.40      A16S
ATOM  31995  C8  G   A1516     193.789  86.080 -35.318  1.00 49.40      A16S
ATOM  31996  C2* G   A1516     196.767  86.078 -33.781  1.00 31.15      A16S
ATOM  31997  O2* G   A1516     197.917  86.668 -33.216  1.00 31.15      A16S
ATOM  31998  C3* G   A1516     197.038  84.886 -34.681  1.00 31.15      A16S
ATOM  31999  O3* G   A1516     198.115  84.095 -34.239  1.00 31.15      A16S
ATOM  32000  P   G   A1517     197.844  82.928 -33.173  1.00 36.34      A16S
ATOM  32001  O1P G   A1517     196.635  82.160 -33.580  1.00 60.62      A16S
ATOM  32002  O2P G   A1517     199.130  82.209 -32.940  1.00 60.62      A16S
ATOM  32003  O5* G   A1517     197.453  83.746 -31.868  1.00 36.34      A16S
ATOM  32004  C5* G   A1517     198.460  84.275 -31.003  1.00 36.34      A16S
ATOM  32005  C4* G   A1517     198.053  84.056 -29.579  1.00 36.34      A16S
ATOM  32006  O4* G   A1517     199.163  84.314 -28.705  1.00 36.34      A16S
ATOM  32007  C1* G   A1517     198.700  84.898 -27.506  1.00 36.34      A16S
ATOM  32008  N9  G   A1517     199.295  86.228 -27.391  1.00 60.62      A16S
ATOM  32009  C4  G   A1517     199.277  87.036 -26.279  1.00 60.62      A16S
ATOM  32010  N3  G   A1517     198.672  86.755 -25.106  1.00 60.62      A16S
ATOM  32011  C2  G   A1517     198.853  87.711 -24.215  1.00 60.62      A16S
ATOM  32012  N2  G   A1517     198.315  87.597 -22.981  1.00 60.62      A16S
ATOM  32013  N1  G   A1517     199.575  88.849 -24.456  1.00 60.62      A16S
ATOM  32014  C6  G   A1517     200.212  89.159 -25.650  1.00 60.62      A16S
ATOM  32015  O6  G   A1517     200.862  90.212 -25.745  1.00 60.62      A16S
ATOM  32016  C5  G   A1517     200.013  88.147 -26.623  1.00 60.62      A16S
ATOM  32017  N7  G   A1517     200.456  88.058 -27.937  1.00 60.62      A16S
ATOM  32018  C8  G   A1517     200.004  86.909 -28.353  1.00 60.62      A16S
ATOM  32019  C2* G   A1517     197.180  84.930 -27.579  1.00 36.34      A16S
ATOM  32020  O2* G   A1517     196.667  83.740 -27.017  1.00 36.34      A16S
ATOM  32021  C3* G   A1517     196.970  84.973 -29.075  1.00 36.34      A16S
ATOM  32022  O3* G   A1517     195.695  84.537 -29.443  1.00 36.34      A16S
ATOM  32023  P   A   A1518     194.649  85.614 -29.989  1.00 38.28      A16S
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ATOM  32024  O1P A   A1518      193.415  84.903 -30.398  1.00 30.98      A16S
ATOM  32025  O2P A   A1518      195.367  86.475 -30.969  1.00 30.98      A16S
ATOM  32026  O5* A   A1518      194.361  86.526 -28.718  1.00 38.28      A16S
ATOM  32027  C5* A   A1518      193.793  85.990 -27.513  1.00 38.28      A16S
ATOM  32028  C4* A   A1518      193.785  87.058 -26.459  1.00 38.28      A16S
ATOM  32029  O4* A   A1518      195.153  87.325 -26.077  1.00 38.28      A16S
ATOM  32030  C1* A   A1518      195.340  88.716 -25.907  1.00 38.28      A16S
ATOM  32031  N9  A   A1518      196.364  89.161 -26.852  1.00 30.98      A16S
ATOM  32032  C4  A   A1518      197.169  90.259 -26.706  1.00 30.98      A16S
ATOM  32033  N3  A   A1518      197.200  91.102 -25.664  1.00 30.98      A16S
ATOM  32034  C2  A   A1518      198.099  92.051 -25.865  1.00 30.98      A16S
ATOM  32035  N1  A   A1518      198.909  92.252 -26.925  1.00 30.98      A16S
ATOM  32036  C6  A   A1518      198.841  91.394 -27.970  1.00 30.98      A16S
ATOM  32037  N6  A   A1518      199.623  91.614 -29.036  1.00 30.98      A16S
ATOM  32038  C5  A   A1518      197.935  90.325 -27.864  1.00 30.98      A16S
ATOM  32039  N7  A   A1518      197.635  89.270 -28.711  1.00 30.98      A16S
ATOM  32040  C8  A   A1518      196.705  88.607 -28.064  1.00 30.98      A16S
ATOM  32041  C2* A   A1518      193.989  89.404 -26.120  1.00 38.28      A16S
ATOM  32042  O2* A   A1518      193.372  89.611 -24.870  1.00 38.28      A16S
ATOM  32043  C3* A   A1518      193.245  88.384 -26.968  1.00 38.28      A16S
ATOM  32044  O3* A   A1518      191.840  88.442 -26.772  1.00 38.28      A16S
ATOM  32045  P   A   A1519      190.889  89.048 -27.918  1.00 36.92      A16S
ATOM  32046  O1P A   A1519      189.508  88.994 -27.369  1.00 49.47      A16S
ATOM  32047  O2P A   A1519      191.177  88.407 -29.219  1.00 49.47      A16S
ATOM  32048  O5* A   A1519      191.320  90.576 -28.011  1.00 36.92      A16S
ATOM  32049  C5* A   A1519      190.411  91.615 -27.596  1.00 36.92      A16S
ATOM  32050  C4* A   A1519      190.952  92.332 -26.388  1.00 36.92      A16S
ATOM  32051  O4* A   A1519      192.223  91.743 -26.001  1.00 36.92      A16S
ATOM  32052  C1* A   A1519      193.153  92.765 -25.677  1.00 36.92      A16S
ATOM  32053  N9  A   A1519      194.172  92.822 -26.737  1.00 49.47      A16S
ATOM  32054  C4  A   A1519      195.274  93.645 -26.771  1.00 49.47      A16S
ATOM  32055  N3  A   A1519      195.671  94.506 -25.824  1.00 49.47      A16S
ATOM  32056  C2  A   A1519      196.748  95.165 -26.219  1.00 49.47      A16S
ATOM  32057  N1  A   A1519      197.431  95.075 -27.371  1.00 49.47      A16S
ATOM  32058  C6  A   A1519      197.011  94.201 -28.305  1.00 49.47      A16S
ATOM  32059  N6  A   A1519      197.696  94.123 -29.457  1.00 49.47      A16S
ATOM  32060  C5  A   A1519      195.872  93.430 -28.000  1.00 49.47      A16S
ATOM  32061  N7  A   A1519      195.189  92.458 -28.710  1.00 49.47      A16S
ATOM  32062  C8  A   A1519      194.201  92.121 -27.916  1.00 49.47      A16S
ATOM  32063  C2* A   A1519      192.356  94.069 -25.636  1.00 36.92      A16S
ATOM  32064  O2* A   A1519      191.847  94.229 -24.331  1.00 36.92      A16S
ATOM  32065  C3* A   A1519      191.267  93.786 -26.658  1.00 36.92      A16S
ATOM  32066  O3* A   A1519      190.123  94.603 -26.525  1.00 36.92      A16S
ATOM  32067  P   G   A1520      189.411  95.205 -27.840  1.00 32.47      A16S
ATOM  32068  O1P G   A1520      189.084  96.625 -27.623  1.00 40.72      A16S
ATOM  32069  O2P G   A1520      188.347  94.275 -28.221  1.00 40.72      A16S
ATOM  32070  O5* G   A1520      190.496  95.166 -28.999  1.00 32.47      A16S
ATOM  32071  C5* G   A1520      191.649  96.015 -28.966  1.00 32.47      A16S
ATOM  32072  C4* G   A1520      192.673  95.544 -29.974  1.00 32.47      A16S
ATOM  32073  O4* G   A1520      192.659  94.095 -30.014  1.00 32.47      A16S
ATOM  32074  C1* G   A1520      192.917  93.653 -31.325  1.00 32.47      A16S
ATOM  32075  N9  G   A1520      191.785  92.855 -31.772  1.00 40.72      A16S
ATOM  32076  C4  G   A1520      191.740  92.050 -32.886  1.00 40.72      A16S
ATOM  32077  N3  G   A1520      192.744  91.853 -33.763  1.00 40.72      A16S
ATOM  32078  C2  G   A1520      192.398  91.021 -34.725  1.00 40.72      A16S
ATOM  32079  N2  G   A1520      193.276  90.707 -35.677  1.00 40.72      A16S
ATOM  32080  N1  G   A1520      191.167  90.433 -34.825  1.00 40.72      A16S
ATOM  32081  C6  G   A1520      190.124  90.618 -33.933  1.00 40.72      A16S
ATOM  32082  O6  G   A1520      189.052  90.026 -34.108  1.00 40.72      A16S
ATOM  32083  C5  G   A1520      190.483  91.510 -32.892  1.00 40.72      A16S
ATOM  32084  N7  G   A1520      189.753  91.959 -31.807  1.00 40.72      A16S
ATOM  32085  C8  G   A1520      190.566  92.754 -31.174  1.00 40.72      A16S
ATOM  32086  C2* G   A1520      193.178  94.880 -32.194  1.00 32.47      A16S
ATOM  32087  O2* G   A1520      194.573  95.041 -32.230  1.00 32.47      A16S
ATOM  32088  C3* G   A1520      192.463  95:977 -31.414  1.00 32.47      A16S
ATOM  32089  O3* G   A1520      193.075  97.253 -31.588  1.00 32.47      A16S
ATOM  32090  P   G   A1521      192.931  98.042 -32.982  1.00 32.79      A16S
ATOM  32091  O1P G   A1521      193.766  99.273 -32.853  1.00 41.77      A16S
ATOM  32092  O2P G   A1521      191.502  98.157 -33.372  1.00 41.77      A16S
ATOM  32093  O5* G   A1521      193.633  97.082 -34.030  1.00 32.79      A16S
ATOM  32094  C5* G   A1521      195.054  97.092 -34.188  1.00 32.79      A16S
ATOM  32095  C4* G   A1521      195.424  96.399 -35.462  1.00 32.79      A16S
ATOM  32096  O4* G   A1521      194.936  95.040 -35.396  1.00 32.79      A16S
ATOM  32097  C1* G   A1521      194.484  94.639 -36.672  1.00 32.79      A16S
ATOM  32098  N9  G   A1521      193.111  94.170 -36.553  1.00 41.77      A16S
ATOM  32099  C4  G   A1521      192.468  93.291 -37.391  1.00 41.77      A16S
ATOM  32100  N3  G   A1521      192.974  92.745 -38.520  1.00 41.77      A16S
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ATOM  32101  C2  G  A1521     192.125  91.891 -39.079  1.00 41.77      A16S
ATOM  32102  N2  G  A1521     192.447  91.268 -40.208  1.00 41.77      A16S
ATOM  32103  N1  G  A1521     190.893  91.592 -38.571  1.00 41.77      A16S
ATOM  32104  C6  G  A1521     190.357  92.138 -37.413  1.00 41.77      A16S
ATOM  32105  O6  G  A1521     189.243  91.788 -37.031  1.00 41.77      A16S
ATOM  32106  C5  G  A1521     191.245  93.067 -36.811  1.00 41.77      A16S
ATOM  32107  N7  G  A1521     191.102  93.825 -35.663  1.00 41.77      A16S
ATOM  32108  C8  G  A1521     192.227  94.471 -35.559  1.00 41.77      A16S
ATOM  32109  C2* G  A1521     194.691  95.804 -37.632  1.00 32.79      A16S
ATOM  32110  O2* G  A1521     195.936  95.636 -38.260  1.00 32.79      A16S
ATOM  32111  C3* G  A1521     194.746  96.979 -36.683  1.00 32.79      A16S
ATOM  32112  O3* G  A1521     195.462  98.055 -37.242  1.00 32.79      A16S
ATOM  32113  P   U  A1522     194.663  99.142 -38.100  1.00 23.84      A16S
ATOM  32114  O1P U  A1522     195.544 100.302 -38.399  1.00 56.33      A16S
ATOM  32115  O2P U  A1522     193.373  99.369 -37.399  1.00 56.33      A16S
ATOM  32116  O5* U  A1522     194.330  98.376 -39.454  1.00 23.84      A16S
ATOM  32117  C5* U  A1522     195.380  97.886 -40.286  1.00 23.84      A16S
ATOM  32118  C4* U  A1522     194.831  96.967 -41.341  1.00 23.84      A16S
ATOM  32119  O4* U  A1522     194.377  95.718 -40.754  1.00 23.84      A16S
ATOM  32120  C1* U  A1522     193.266  95.225 -41.482  1.00 23.84      A16S
ATOM  32121  N1  U  A1522     192.105  95.153 -40.586  1.00 56.33      A16S
ATOM  32122  C6  U  A1522     191.977  95.975 -39.497  1.00 56.33      A16S
ATOM  32123  C2  U  A1522     191.131  94.245 -40.897  1.00 56.33      A16S
ATOM  32124  O2  U  A1522     191.229  93.464 -41.817  1.00 56.33      A16S
ATOM  32125  N3  U  A1522     190.038  94.272 -40.084  1.00 56.33      A16S
ATOM  32126  C4  U  A1522     189.834  95.084 -39.008  1.00 56.33      A16S
ATOM  32127  O4  U  A1522     188.761  95.033 -38.417  1.00 56.33      A16S
ATOM  32128  C5  U  A1522     190.907  95.970 -38.718  1.00 56.33      A16S
ATOM  32129  C2* U  A1522     193.006  96.199 -42.630  1.00 23.84      A16S
ATOM  32130  O2* U  A1522     193.677  95.737 -43.784  1.00 23.84      A16S
ATOM  32131  C3* U  A1522     193.627  97.477 -42.092  1.00 23.84      A16S
ATOM  32132  O3* U  A1522     193.993  98.337 -43.130  1.00 23.84      A16S
ATOM  32133  P   G  A1523     192.903  99.343 -43.704  1.00 27.57      A16S
ATOM  32134  O1P G  A1523     193.547 100.358 -44.596  1.00 39.41      A16S
ATOM  32135  O2P G  A1523     192.143  99.787 -42.515  1.00 39.41      A16S
ATOM  32136  O5* G  A1523     191.975  98.413 -44.601  1.00 27.57      A16S
ATOM  32137  C5* G  A1523     192.524  97.744 -45.731  1.00 27.57      A16S
ATOM  32138  C4* G  A1523     191.467  96.946 -46.438  1.00 27.57      A16S
ATOM  32139  O4* G  A1523     191.052  95.808 -45.646  1.00 27.57      A16S
ATOM  32140  C1* G  A1523     189.694  95.521 -45.911  1.00 27.57      A16S
ATOM  32141  N9  G  A1523     188.950  95.643 -44.663  1.00 39.41      A16S
ATOM  32142  C4  G  A1523     187.682  95.183 -44.430  1.00 39.41      A16S
ATOM  32143  N3  G  A1523     186.905  94.542 -45.314  1.00 39.41      A16S
ATOM  32144  C2  G  A1523     185.758  94.186 -44.789  1.00 39.41      A16S
ATOM  32145  N2  G  A1523     184.878  93.505 -45.527  1.00 39.41      A16S
ATOM  32146  N1  G  A1523     185.389  94.459 -43.506  1.00 39.41      A16S
ATOM  32147  C6  G  A1523     186.163  95.129 -42.581  1.00 39.41      A16S
ATOM  32148  O6  G  A1523     185.727  95.328 -41.448  1.00 39.41      A16S
ATOM  32149  C5  G  A1523     187.410  95.501 -43.123  1.00 39.41      A16S
ATOM  32150  N7  G  A1523     188.484  96.161 -42.541  1.00 39.41      A16S
ATOM  32151  C8  G  A1523     189.372  96.227 -43.495  1.00 39.41      A16S
ATOM  32152  C2* G  A1523     189.219  96.510 -46.974  1.00 27.57      A16S
ATOM  32153  O2* G  A1523     189.389  95.923 -48.254  1.00 27.57      A16S
ATOM  32154  C3* G  A1523     190.181  97.664 -46.761  1.00 27.57      A16S
ATOM  32155  O3* G  A1523     190.335  98.410 -47.932  1.00 27.57      A16S
ATOM  32156  P   C  A1524     189.829  99.924 -47.964  1.00 26.28      A16S
ATOM  32157  O1P C  A1524     190.420 100.538 -49.186  1.00 38.00      A16S
ATOM  32158  O2P C  A1524     190.080 100.529 -46.628  1.00 38.00      A16S
ATOM  32159  O5* C  A1524     188.267  99.785 -48.202  1.00 26.28      A16S
ATOM  32160  C5* C  A1524     187.806  99.118 -49.372  1.00 26.28      A16S
ATOM  32161  C4* C  A1524     186.350  98.780 -49.252  1.00 26.28      A16S
ATOM  32162  O4* C  A1524     186.145  97.744 -48.274  1.00 26.28      A16S
ATOM  32163  C1* C  A1524     184.874  97.903 -47.689  1.00 26.28      A16S
ATOM  32164  N1  C  A1524     185.049  98.006 -46.237  1.00 38.00      A16S
ATOM  32165  C6  C  A1524     186.220  98.459 -45.712  1.00 38.00      A16S
ATOM  32166  C2  C  A1524     183.997  97.641 -45.396  1.00 38.00      A16S
ATOM  32167  O2  C  A1524     182.942  97.233 -45.891  1.00 38.00      A16S
ATOM  32168  N3  C  A1524     184.155  97.747 -44.067  1.00 38.00      A16S
ATOM  32169  C4  C  A1524     185.300  98.201 -43.569  1.00 38.00      A16S
ATOM  32170  N4  C  A1524     185.414  98.303 -42.244  1.00 38.00      A16S
ATOM  32171  C5  C  A1524     186.384  98.574 -44.399  1.00 38.00      A16S
ATOM  32172  C2* C  A1524     184.224  99.140 -48.313  1.00 26.28      A16S
ATOM  32173  O2* C  A1524     183.376  98.751 -49.377  1.00 26.28      A16S
ATOM  32174  C3* C  A1524     185.432  99.900 -48.825  1.00 26.28      A16S
ATOM  32175  O3* C  A1524     185.110 100.733 -49.924  1.00 26.28      A16S
ATOM  32176  P   G  A1525     185.030 102.317 -49.709  1.00 27.51      A16S
ATOM  32177  O1P G  A1525     184.849 102.930 -51.045  1.00 37.02      A16S
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ATOM  32178  O2P G   A1525     186.150 102.766 -48.842  1.00 37.02      A16S
ATOM  32179  O5* G   A1525     183.674 102.474 -48.906  1.00 27.51      A16S
ATOM  32180  C5* G   A1525     182.448 102.240 -49.585  1.00 27.51      A16S
ATOM  32181  C4* G   A1525     181.317 102.111 -48.620  1.00 27.51      A16S
ATOM  32182  O4* G   A1525     181.495 100.947 -47.791  1.00 27.51      A16S
ATOM  32183  C1* G   A1525     180.833 101.155 -46.570  1.00 27.51      A16S
ATOM  32184  N9   G   A1525     181.783 101.068 -45.480  1.00 37.02      A16S
ATOM  32185  C4   G   A1525     181.447 100.753 -44.210  1.00 37.02      A16S
ATOM  32186  N3   G   A1525     180.213 100.437 -43.797  1.00 37.02      A16S
ATOM  32187  C2   G   A1525     180.177 100.181 -42.518  1.00 37.02      A16S
ATOM  32188  N2   G   A1525     179.018  99.799 -41.957  1.00 37.02      A16S
ATOM  32189  N1   G   A1525     181.270 100.266 -41.692  1.00 37.02      A16S
ATOM  32190  C6   G   A1525     182.553 100.606 -42.097  1.00 37.02      A16S
ATOM  32191  O6   G   A1525     183.465 100.671 -41.266  1.00 37.02      A16S
ATOM  32192  C5   G   A1525     182.605 100.847 -43.486  1.00 37.02      A16S
ATOM  32193  N7   G   A1525     183.670 101.192 -44.305  1.00 37.02      A16S
ATOM  32194  C8   G   A1525     183.130 101.312 -45.486  1.00 37.02      A16S
ATOM  32195  C2* G   A1525     180.258 102.561 -46.589  1.00 27.51      A16S
ATOM  32196  O2* G   A1525     178.910 102.492 -47.024  1.00 27.51      A16S
ATOM  32197  C3* G   A1525     181.144 103.223 -47.619  1.00 27.51      A16S
ATOM  32198  O3* G   A1525     180.502 104.327 -48.183  1.00 27.51      A16S
ATOM  32199  P    G   A1526     180.708 105.764 -47.519  1.00 26.27      A16S
ATOM  32200  O1P G   A1526     180.057 106.667 -48.500  1.00 34.75      A16S
ATOM  32201  O2P G   A1526     182.140 105.955 -47.174  1.00 34.75      A16S
ATOM  32202  O5* G   A1526     179.864 105.699 -46.168  1.00 26.27      A16S
ATOM  32203  C5* G   A1526     178.470 105.373 -46.215  1.00 26.27      A16S
ATOM  32204  C4* G   A1526     177.903 105.198 -44.829  1.00 26.27      A16S
ATOM  32205  O4* G   A1526     178.468 104.040 -44.176  1.00 26.27      A16S
ATOM  32206  C1* G   A1526     178.484 104.249 -42.776  1.00 26.27      A16S
ATOM  32207  N9   G   A1526     179.859 104.109 -42.302  1.00 34.75      A16S
ATOM  32208  C4   G   A1526     180.284 104.024 -41.000  1.00 34.75      A16S
ATOM  32209  N3   G   A1526     179.506 104.055 -39.909  1.00 34.75      A16S
ATOM  32210  C2   G   A1526     180.216 103.963 -38.802  1.00 34.75      A16S
ATOM  32211  N2   G   A1526     179.618 103.986 -37.615  1.00 34.75      A16S
ATOM  32212  N1   G   A1526     181.567 103.842 -38.775  1.00 34.75      A16S
ATOM  32213  C6   G   A1526     182.379 103.805 -39.890  1.00 34.75      A16S
ATOM  32214  O6   G   A1526     183.588 103.690 -39.757  1.00 34.75      A16S
ATOM  32215  C5   G   A1526     181.646 103.910 -41.069  1.00 34.75      A16S
ATOM  32216  N7   G   A1526     182.076 103.925 -42.378  1.00 34.75      A16S
ATOM  32217  C8   G   A1526     180.983 104.041 -43.074  1.00 34.75      A16S
ATOM  32218  C2* G   A1526     177.891 105.637 -42.516  1.00 26.27      A16S
ATOM  32219  O2* G   A1526     176.498 105.540 -42.290  1.00 26.27      A16S
ATOM  32220  C3* G   A1526     178.116 106.327 -43.846  1.00 26.27      A16S
ATOM  32221  O3* G   A1526     177.142 107.327 -44.008  1.00 26.27      A16S
ATOM  32222  P    C   A1527     177.403 108.776 -43.396  1.00 30.02      A16S
ATOM  32223  O1P C   A1527     176.292 109.605 -43.919  1.00 25.17      A16S
ATOM  32224  O2P C   A1527     178.797 109.183 -43.647  1.00 25.17      A16S
ATOM  32225  O5* C   A1527     177.285 108.551 -41.829  1.00 30.02      A16S
ATOM  32226  C5* C   A1527     176.003 108.376 -41.205  1.00 30.02      A16S
ATOM  32227  C4* C   A1527     176.139 108.484 -39.707  1.00 30.02      A16S
ATOM  32228  O4* C   A1527     176.875 107.336 -39.227  1.00 30.02      A16S
ATOM  32229  C1* C   A1527     177.797 107.741 -38.230  1.00 30.02      A16S
ATOM  32230  N1   C   A1527     179.162 107.503 -38.733  1.00 25.17      A16S
ATOM  32231  C6   C   A1527     179.417 107.395 -40.074  1.00 25.17      A16S
ATOM  32232  C2   C   A1527     180.195 107.391 -37.811  1.00 25.17      A16S
ATOM  32233  O2   C   A1527     179.934 107.493 -36.611  1.00 25.17      A16S
ATOM  32234  N3   C   A1527     181.449 107.177 -38.246  1.00 25.17      A16S
ATOM  32235  C4   C   A1527     181.691 107.080 -39.550  1.00 25.17      A16S
ATOM  32236  N4   C   A1527     182.949 106.890 -39.930  1.00 25.17      A16S
ATOM  32237  C5   C   A1527     180.653 107.183 -40.521  1.00 25.17      A16S
ATOM  32238  C2* C   A1527     177.538 109.213 -37.927  1.00 30.02      A16S
ATOM  32239  O2* C   A1527     176.628 109.277 -36.862  1.00 30.02      A16S
ATOM  32240  C3* C   A1527     176.937 109.691 -39.236  1.00 30.02      A16S
ATOM  32241  O3* C   A1527     176.112 110.827 -39.063  1.00 30.02      A16S
ATOM  32242  P    U   A1528     176.786 112.277 -38.949  1.00 35.46      A16S
ATOM  32243  O1P U   A1528     175.660 113.243 -38.924  1.00 41.36      A16S
ATOM  32244  O2P U   A1528     177.835 112.405 -39.987  1.00 41.36      A16S
ATOM  32245  O5* U   A1528     177.486 112.258 -37.520  1.00 35.46      A16S
ATOM  32246  C5* U   A1528     176.713 111.991 -36.337  1.00 35.46      A16S
ATOM  32247  C4* U   A1528     177.497 112.350 -35.102  1.00 35.46      A16S
ATOM  32248  O4* U   A1528     178.632 111.465 -34.953  1.00 35.46      A16S
ATOM  32249  C1* U   A1528     179.844 112.194 -34.967  1.00 35.46      A16S
ATOM  32250  N1   U   A1528     180.712 111.563 -35.973  1.00 41.36      A16S
ATOM  32251  C6   U   A1528     180.343 111.533 -37.294  1.00 41.36      A16S
ATOM  32252  C2   U   A1528     181.901 110.989 -35.555  1.00 41.36      A16S
ATOM  32253  O2   U   A1528     182.276 110.988 -34.398  1.00 41.36      A16S
ATOM  32254  N3   U   A1528     182.637 110.409 -36.546  1.00 41.36      A16S
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ATOM  32255  C4   U   A1528     182.316 110.337 -37.879  1.00 41.36      A16S
ATOM  32256  O4   U   A1528     183.077 109.754 -38.655  1.00 41.36      A16S
ATOM  32257  C5   U   A1528     181.079 110.955 -38.230  1.00 41.36      A16S
ATOM  32258  C2*  U   A1528     179.555 113.662 -35.281  1.00 35.46      A16S
ATOM  32259  O2*  U   A1528     180.255 114.448 -34.351  1.00 35.46      A16S
ATOM  32260  C3*  U   A1528     178.049 113.754 -35.085  1.00 35.46      A16S
ATOM  32261  O3*  U   A1528     177.308 114.824 -34.492  1.00 35.46      A16S
ATOM  32262  P    G   A1529     177.360 115.073 -32.905  1.00 33.49      A16S
ATOM  32263  O1P  G   A1529     176.000 115.522 -32.573  1.00 33.71      A16S
ATOM  32264  O2P  G   A1529     178.519 115.922 -32.545  1.00 33.71      A16S
ATOM  32265  O5*  G   A1529     177.501 113.633 -32.255  1.00 33.49      A16S
ATOM  32266  C5*  G   A1529     177.317 113.474 -30.865  1.00 33.49      A16S
ATOM  32267  C4*  G   A1529     178.390 112.596 -30.312  1.00 33.49      A16S
ATOM  32268  O4*  G   A1529     177.822 111.320 -29.935  1.00 33.49      A16S
ATOM  32269  C1*  G   A1529     178.566 110.291 -30.523  1.00 33.49      A16S
ATOM  32270  N9   G   A1529     177.689 109.142 -30.730  1.00 33.71      A16S
ATOM  32271  C4   G   A1529     176.621 109.033 -31.587  1.00 33.71      A16S
ATOM  32272  N3   G   A1529     176.165 109.990 -32.409  1.00 33.71      A16S
ATOM  32273  C2   G   A1529     175.132 109.579 -33.117  1.00 33.71      A16S
ATOM  32274  N2   G   A1529     174.545 110.417 -33.975  1.00 33.71      A16S
ATOM  32275  N1   G   A1529     174.599 108.319 -33.035  1.00 33.71      A16S
ATOM  32276  C6   G   A1529     175.067 107.314 -32.205  1.00 33.71      A16S
ATOM  32277  O6   G   A1529     174.548 106.200 -32.231  1.00 33.71      A16S
ATOM  32278  C5   G   A1529     176.151 107.750 -31.425  1.00 33.71      A16S
ATOM  32279  N7   G   A1529     176.889 107.073 -30.472  1.00 33.71      A16S
ATOM  32280  C8   G   A1529     177.787 107.936 -30.087  1.00 33.71      A16S
ATOM  32281  C2*  G   A1529     179.229 110.910 -31.758  1.00 33.49      A16S
ATOM  32282  O2*  G   A1529     180.381 110.178 -32.147  1.00 33.49      A16S
ATOM  32283  C3*  G   A1529     179.553 112.324 -31.258  1.00 33.49      A16S
ATOM  32284  O3*  G   A1529     180.801 112.323 -30.547  1.00 33.49      A16S
ATOM  32285  P    G   A1530     181.420 113.699 -29.993  1.00 52.69      A16S
ATOM  32286  O1P  G   A1530     182.735 113.364 -29.380  1.00 66.54      A16S
ATOM  32287  O2P  G   A1530     180.400 114.393 -29.187  1.00 66.54      A16S
ATOM  32288  O5*  G   A1530     181.649 114.596 -31.281  1.00 52.69      A16S
ATOM  32289  C5*  G   A1530     182.259 114.043 -32.442  1.00 52.69      A16S
ATOM  32290  C4*  G   A1530     183.760 114.009 -32.286  1.00 52.69      A16S
ATOM  32291  O4*  G   A1530     184.251 112.937 -33.112  1.00 52.69      A16S
ATOM  32292  C1*  G   A1530     185.506 113.290 -33.641  1.00 52.69      A16S
ATOM  32293  N9   G   A1530     185.402 113.280 -35.090  1.00 66.54      A16S
ATOM  32294  C4   G   A1530     186.443 113.157 -35.953  1.00 66.54      A16S
ATOM  32295  N3   G   A1530     187.735 113.024 -35.601  1.00 66.54      A16S
ATOM  32296  C2   G   A1530     188.519 112.937 -36.649  1.00 66.54      A16S
ATOM  32297  N2   G   A1530     189.844 112.813 -36.467  1.00 66.54      A16S
ATOM  32298  N1   G   A1530     188.064 112.970 -37.951  1.00 66.54      A16S
ATOM  32299  C6   G   A1530     186.728 113.108 -38.332  1.00 66.54      A16S
ATOM  32300  O6   G   A1530     186.418 113.136 -39.532  1.00 66.54      A16S
ATOM  32301  C5   G   A1530     185.885 113.205 -37.212  1.00 66.54      A16S
ATOM  32302  N7   G   A1530     184.507 113.349 -37.135  1.00 66.54      A16S
ATOM  32303  C8   G   A1530     184.264 113.389 -35.856  1.00 66.54      A16S
ATOM  32304  C2*  G   A1530     185.914 114.646 -33.069  1.00 52.69      A16S
ATOM  32305  O2*  G   A1530     186.742 114.393 -31.953  1.00 52.69      A16S
ATOM  32306  C3*  G   A1530     184.569 115.248 -32.681  1.00 52.69      A16S
ATOM  32307  O3*  G   A1530     184.730 116.156 -31.582  1.00 52.69      A16S
ATOM  32308  P    A   A1531     185.164 117.685 -31.849  1.00 93.03      A16S
ATOM  32309  O1P  A   A1531     184.391 118.532 -30.903  1.00 96.48      A16S
ATOM  32310  O2P  A   A1531     185.112 117.971 -33.308  1.00 96.48      A16S
ATOM  32311  O5*  A   A1531     186.688 117.741 -31.394  1.00 93.03      A16S
ATOM  32312  C5*  A   A1531     187.073 117.676 -29.998  1.00 93.03      A16S
ATOM  32313  C4*  A   A1531     188.586 117.716 -29.873  1.00 93.03      A16S
ATOM  32314  O4*  A   A1531     189.131 116.566 -30.575  1.00 93.03      A16S
ATOM  32315  C1*  A   A1531     190.232 116.962 -31.380  1.00 93.03      A16S
ATOM  32316  N9   A   A1531     189.800 116.908 -32.783  1.00 96.48      A16S
ATOM  32317  C4   A   A1531     190.604 116.960 -33.894  1.00 96.48      A16S
ATOM  32318  N3   A   A1531     191.947 117.041 -33.924  1.00 96.48      A16S
ATOM  32319  C2   A   A1531     192.380 117.093 -35.180  1.00 96.48      A16S
ATOM  32320  N1   A   A1531     191.670 117.072 -36.326  1.00 96.48      A16S
ATOM  32321  C6   A   A1531     190.320 116.984 -36.256  1.00 96.48      A16S
ATOM  32322  N6   A   A1531     189.612 116.956 -37.393  1.00 96.48      A16S
ATOM  32323  C5   A   A1531     189.742 116.926 -34.984  1.00 96.48      A16S
ATOM  32324  N7   A   A1531     188.424 116.835 -34.570  1.00 96.48      A16S
ATOM  32325  C8   A   A1531     188.509 116.822 -33.264  1.00 96.48      A16S
ATOM  32326  C2*  A   A1531     190.606 118.386 -30.963  1.00 93.03      A16S
ATOM  32327  O2*  A   A1531     191.585 118.371 -29.938  1.00 93.03      A16S
ATOM  32328  C3*  A   A1531     189.254 118.929 -30.516  1.00 93.03      A16S
ATOM  32329  O3*  A   A1531     189.370 120.038 -29.629  1.00 93.03      A16S
ATOM  32330  P    U   A1532     189.484 121.527 -30.229  1.00 89.46      A16S
ATOM  32331  O1P  U   A1532     189.825 122.442 -29.107  1.00116.75      A16S
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ATOM  32332  O2P U   A1532     188.285 121.802 -31.059  1.00116.75      A16S
ATOM  32333  O5* U   A1532     190.730 121.437 -31.214  1.00 89.46      A16S
ATOM  32334  C5* U   A1532     192.079 121.478 -30.722  1.00 89.46      A16S
ATOM  32335  C4* U   A1532     193.023 121.716 -31.870  1.00 89.46      A16S
ATOM  32336  O4* U   A1532     192.890 120.598 -32.787  1.00 89.46      A16S
ATOM  32337  C1* U   A1532     192.903 121.066 -34.128  1.00 89.46      A16S
ATOM  32338  N1  U   A1532     191.567 120.843 -34.712  1.00116.75      A16S
ATOM  32339  C6  U   A1532     190.432 120.873 -33.929  1.00116.75      A16S
ATOM  32340  C2  U   A1532     191.476 120.629 -36.079  1.00116.75      A16S
ATOM  32341  O2  U   A1532     192.448 120.563 -36.814  1.00116.75      A16S
ATOM  32342  N3  U   A1532     190.198 120.497 -36.554  1.00116.75      A16S
ATOM  32343  C4  U   A1532     189.033 120.547 -35.826  1.00116.75      A16S
ATOM  32344  O4  U   A1532     187.958 120.489 -36.412  1.00116.75      A16S
ATOM  32345  C5  U   A1532     189.207 120.739 -34.426  1.00116.75      A16S
ATOM  32346  C2* U   A1532     193.225 122.561 -34.085  1.00 89.46      A16S
ATOM  32347  O2* U   A1532     194.611 122.791 -34.236  1.00 89.46      A16S
ATOM  32348  C3* U   A1532     192.690 122.942 -32.714  1.00 89.46      A16S
ATOM  32349  O3* U   A1532     193.214 124.174 -32.221  1.00 89.46      A16S
ATOM  32350  P   C   A1533     192.416 125.541 -32.515  1.00119.85      A16S
ATOM  32351  O1P C   A1533     190.977 125.282 -32.242  1.00201.30      A16S
ATOM  32352  O2P C   A1533     193.090 126.665 -31.831  1.00201.30      A16S
ATOM  32353  O5* C   A1533     192.601 125.752 -34.084  1.00119.85      A16S
ATOM  32354  C5* C   A1533     191.652 125.215 -35.033  1.00119.85      A16S
ATOM  32355  C4* C   A1533     192.030 125.619 -36.442  1.00119.85      A16S
ATOM  32356  O4* C   A1533     192.077 127.069 -36.529  1.00119.85      A16S
ATOM  32357  C1* C   A1533     193.102 127.464 -37.427  1.00119.85      A16S
ATOM  32358  N1  C   A1533     194.054 128.326 -36.691  1.00201.30      A16S
ATOM  32359  C6  C   A1533     194.729 127.853 -35.596  1.00201.30      A16S
ATOM  32360  C2  C   A1533     194.258 129.647 -37.129  1.00201.30      A16S
ATOM  32361  O2  C   A1533     193.639 130.060 -38.127  1.00201.30      A16S
ATOM  32362  N3  C   A1533     195.124 130.440 -36.452  1.00201.30      A16S
ATOM  32363  C4  C   A1533     195.773 129.964 -35.384  1.00201.30      A16S
ATOM  32364  N4  C   A1533     196.616 130.783 -34.746  1.00201.30      A16S
ATOM  32365  C5  C   A1533     195.588 128.628 -34.921  1.00201.30      A16S
ATOM  32366  C2* C   A1533     193.728 126.192 -38.012  1.00119.85      A16S
ATOM  32367  O2* C   A1533     193.094 125.895 -39.244  1.00119.85      A16S
ATOM  32368  C3* C   A1533     193.401 125.171 -36.929  1.00119.85      A16S
ATOM  32369  O3* C   A1533     193.619 123.776 -37.179  1.00119.85      A16S
TER   32369       C   A1533                                             A16S
ATOM  32370  O5* UNK X   1     210.416 110.523 -33.926  1.00119.00      XMES
ATOM  32371  C5* UNK X   1     209.596 111.220 -34.881  1.00119.00      XMES
ATOM  32372  C4* UNK X   1     208.703 110.323 -35.715  1.00119.00      XMES
ATOM  32373  O4* UNK X   1     209.517 109.474 -36.571  1.00119.00      XMES
ATOM  32374  C1* UNK X   1     208.915 108.190 -36.695  1.00119.00      XMES
ATOM  32375  N1  UNK X   1     209.838 107.181 -36.125  1.00 75.78      XMES
ATOM  32376  C6  UNK X   1     211.009 107.566 -35.532  1.00 75.78      XMES
ATOM  32377  C2  UNK X   1     209.492 105.807 -36.183  1.00 75.78      XMES
ATOM  32378  O2  UNK X   1     208.437 105.464 -36.744  1.00 75.78      XMES
ATOM  32379  N3  UNK X   1     210.319 104.895 -35.624  1.00 75.78      XMES
ATOM  32380  C4  UNK X   1     211.452 105.291 -35.035  1.00 75.78      XMES
ATOM  32381  N4  UNK X   1     212.237 104.355 -34.485  1.00 75.78      XMES
ATOM  32382  C5  UNK X   1     211.834 106.667 -34.979  1.00 75.78      XMES
ATOM  32383  C2* UNK X   1     207.579 108.238 -35.948  1.00119.00      XMES
ATOM  32384  O2* UNK X   1     206.527 108.520 -36.854  1.00119.00      XMES
ATOM  32385  C3* UNK X   1     207.832 109.349 -34.935  1.00119.00      XMES
ATOM  32386  O3* UNK X   1     206.633 109.937 -34.444  1.00119.00      XMES
ATOM  32387  P   UNK X   2     206.211 109.702 -32.910  1.00111.91      XMES
ATOM  32388  O1P UNK X   2     204.797 110.130 -32.761  1.00143.93      XMES
ATOM  32389  O2P UNK X   2     207.259 110.318 -32.053  1.00143.93      XMES
ATOM  32390  O5* UNK X   2     206.271 108.117 -32.726  1.00111.91      XMES
ATOM  32391  C5* UNK X   2     205.482 107.241 -33.560  1.00111.91      XMES
ATOM  32392  C4* UNK X   2     205.866 105.790 -33.335  1.00111.91      XMES
ATOM  32393  O4* UNK X   2     207.260 105.583 -33.680  1.00111.91      XMES
ATOM  32394  C1* UNK X   2     207.814 104.573 -32.849  1.00111.91      XMES
ATOM  32395  N1  UNK X   2     208.999 105.109 -32.153  1.00143.93      XMES
ATOM  32396  C6  UNK X   2     209.332 106.447 -32.212  1.00143.93      XMES
ATOM  32397  C2  UNK X   2     209.791 104.213 -31.441  1.00143.93      XMES
ATOM  32398  O2  UNK X   2     209.522 103.026 -31.331  1.00143.93      XMES
ATOM  32399  N3  UNK X   2     210.906 104.762 -30.858  1.00143.93      XMES
ATOM  32400  C4  UNK X   2     211.305 106.082 -30.902  1.00143.93      XMES
ATOM  32401  O4  UNK X   2     212.379 106.405 -30.392  1.00143.93      XMES
ATOM  32402  C5  UNK X   2     210.426 106.948 -31.626  1.00143.93      XMES
ATOM  32403  C2* UNK X   2     206.715 104.080 -31.908  1.00111.91      XMES
ATOM  32404  O2* UNK X   2     206.163 102.884 -32.428  1.00111.91      XMES
ATOM  32405  C3* UNK X   2     205.748 105.260 -31.915  1.00111.91      XMES
ATOM  32406  O3* UNK X   2     204.424 104.847 -31.613  1.00111.91      XMES
ATOM  32407  P   UNK X   3     203.746 105.314 -30.235  1.00101.48      XMES
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ATOM  32408  O1P UNK X   3     202.622 104.367 -29.955  1.00 92.83      XMES
ATOM  32409  O2P UNK X   3     203.481 106.776 -30.332  1.00 92.83      XMES
ATOM  32410  O5* UNK X   3     204.893 105.113 -29.149  1.00101.48      XMES
ATOM  32411  C5* UNK X   3     205.317 103.800 -28.736  1.00101.48      XMES
ATOM  32412  C4* UNK X   3     206.406 103.910 -27.692  1.00101.48      XMES
ATOM  32413  O4* UNK X   3     207.598 104.482 -28.294  1.00101.48      XMES
ATOM  32414  C1* UNK X   3     208.249 105.323 -27.362  1.00101.48      XMES
ATOM  32415  N1   UNK X   3     208.365 106.663 -27.961  1.00 92.83      XMES
ATOM  32416  C6   UNK X   3     207.268 107.326 -28.469  1.00 92.83      XMES
ATOM  32417  C2   UNK X   3     209.627 107.235 -28.019  1.00 92.83      XMES
ATOM  32418  O2   UNK X   3     210.623 106.704 -27.549  1.00 92.83      XMES
ATOM  32419  N3   UNK X   3     209.682 108.457 -28.646  1.00 92.83      XMES
ATOM  32420  C4   UNK X   3     208.631 109.158 -29.200  1.00 92.83      XMES
ATOM  32421  O4   UNK X   3     208.863 110.195 -29.831  1.00 92.83      XMES
ATOM  32422  C5   UNK X   3     207.355 108.520 -29.066  1.00 92.83      XMES
ATOM  32423  C2* UNK X   3     207.471 105.262 -26.045  1.00101.48      XMES
ATOM  32424  O2* UNK X   3     208.085 104.316 -25.187  1.00101.48      XMES
ATOM  32425  C3* UNK X   3     206.088 104.824 -26.519  1.00101.48      XMES
ATOM  32426  O3* UNK X   3     205.331 104.151 -25.514  1.00101.48      XMES
ATOM  32427  P    U    X   4     204.007 104.847 -24.918  1.00 64.21      XMES
ATOM  32428  O1P U    X   4     203.097 105.084 -26.060  1.00 45.93      XMES
ATOM  32429  O2P U    X   4     204.437 105.991 -24.079  1.00 45.93      XMES
ATOM  32430  O5* U    X   4     203.366 103.728 -23.978  1.00 64.21      XMES
ATOM  32431  C5* U    X   4     202.722 102.574 -24.554  1.00 64.21      XMES
ATOM  32432  C4* U    X   4     203.036 101.328 -23.755  1.00 64.21      XMES
ATOM  32433  O4* U    X   4     204.464 101.057 -23.779  1.00 64.21      XMES
ATOM  32434  C1* U    X   4     204.861 100.467 -22.548  1.00 64.21      XMES
ATOM  32435  N1   U    X   4     205.844 101.335 -21.881  1.00 45.93      XMES
ATOM  32436  C6   U    X   4     206.167 102.585 -22.365  1.00 45.93      XMES
ATOM  32437  C2   U    X   4     206.416 100.857 -20.715  1.00 45.93      XMES
ATOM  32438  O2   U    X   4     206.184  99.744 -20.271  1.00 45.93      XMES
ATOM  32439  N3   U    X   4     207.262 101.729 -20.086  1.00 45.93      XMES
ATOM  32440  C4   U    X   4     207.595 102.999 -20.493  1.00 45.93      XMES
ATOM  32441  O4   U    X   4     208.259 103.711 -19.741  1.00 45.93      XMES
ATOM  32442  C5   U    X   4     206.998 103.410 -21.729  1.00 45.93      XMES
ATOM  32443  C2* U    X   4     203.613 100.320 -21.680  1.00 64.21      XMES
ATOM  32444  O2* U    X   4     203.147  98.989 -21.764  1.00 64.21      XMES
ATOM  32445  C3* U    X   4     202.693 101.381 -22.279  1.00 64.21      XMES
ATOM  32446  O3* U    X   4     201.322 101.121 -22.051  1.00 64.21      XMES
ATOM  32447  P    C    X   5     200.527 101.978 -20.953  1.00 56.95      XMES
ATOM  32448  O1P C    X   5     199.101 101.584 -21.074  1.00 54.18      XMES
ATOM  32449  O2P C    X   5     200.905 103.405 -21.099  1.00 54.18      XMES
ATOM  32450  O5* C    X   5     201.068 101.425 -19.561  1.00 56.95      XMES
ATOM  32451  C5* C    X   5     200.858 100.043 -19.201  1.00 56.95      XMES
ATOM  32452  C4* C    X   5     201.728  99.646 -18.025  1.00 56.95      XMES
ATOM  32453  O4* C    X   5     203.119  99.974 -18.297  1.00 56.95      XMES
ATOM  32454  C1* C    X   5     203.774 100.299 -17.083  1.00 56.95      XMES
ATOM  32455  N1   C    X   5     204.413 101.628 -17.200  1.00 54.18      XMES
ATOM  32456  C6   C    X   5     204.099 102.484 -18.217  1.00 54.18      XMES
ATOM  32457  C2   C    X   5     205.379 101.993 -16.249  1.00 54.18      XMES
ATOM  32458  O2   C    X   5     205.609 101.222 -15.292  1.00 54.18      XMES
ATOM  32459  N3   C    X   5     206.031 103.175 -16.385  1.00 54.18      XMES
ATOM  32460  C4   C    X   5     205.736 103.985 -17.399  1.00 54.18      XMES
ATOM  32461  N4   C    X   5     206.420 105.123 -17.507  1.00 54.18      XMES
ATOM  32462  C5   C    X   5     204.729 103.661 -18.352  1.00 54.18      XMES
ATOM  32463  C2* C    X   5     202.756 100.177 -15.948  1.00 56.95      XMES
ATOM  32464  O2* C    X   5     202.899  98.904 -15.340  1.00 56.95      XMES
ATOM  32465  C3* C    X   5     201.435 100.324 -16.696  1.00 56.95      XMES
ATOM  32466  O3* C    X   5     200.369  99.686 -16.007  1.00 56.95      XMES
ATOM  32467  P    U    X   6     199.435 100.547 -15.031  1.00 77.63      XMES
ATOM  32468  O1P U    X   6     198.557  99.569 -14.336  1.00 65.77      XMES
ATOM  32469  O2P U    X   6     198.833 101.670 -15.796  1.00 65.77      XMES
ATOM  32470  O5* U    X   6     200.449 101.155 -13.965  1.00 77.63      XMES
ATOM  32471  C5* U    X   6     200.995 100.322 -12.925  1.00 77.63      XMES
ATOM  32472  C4* U    X   6     201.843 101.134 -11.972  1.00 77.63      XMES
ATOM  32473  O4* U    X   6     202.992 101.683 -12.663  1.00 77.63      XMES
ATOM  32474  C1* U    X   6     203.367 102.908 -12.053  1.00 77.63      XMES
ATOM  32475  N1   U    X   6     203.402 103.958 -13.084  1.00 65.77      XMES
ATOM  32476  C6   U    X   6     202.632 103.870 -14.214  1.00 65.77      XMES
ATOM  32477  C2   U    X   6     204.247 105.041 -12.882  1.00 65.77      XMES
ATOM  32478  O2   U    X   6     204.940 105.175 -11.883  1.00 65.77      XMES
ATOM  32479  N3   U    X   6     204.249 105.967 -13.892  1.00 65.77      XMES
ATOM  32480  C4   U    X   6     203.508 105.932 -15.051  1.00 65.77      XMES
ATOM  32481  O4   U    X   6     203.628 106.843 -15.879  1.00 65.77      XMES
ATOM  32482  C5   U    X   6     202.656 104.792 -15.176  1.00 65.77      XMES
ATOM  32483  C2* U    X   6     202.390 103.187 -10.906  1.00 77.63      XMES
ATOM  32484  O2* U    X   6     202.988 102.740  -9.703  1.00 77.63      XMES
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ATOM  32485  C3* U   X   6      201.192 102.337 -11.312  1.00 77.63       XMES
ATOM  32486  O3* U   X   6      200.162 102.086 -10.343  1.00 77.63       XMES
TER   32486      U   X   6                                                XMES
ATOM  32487  CB  VAL B   7      150.536 171.100 -20.876  1.00 63.72       BS2
ATOM  32488  CG1 VAL B   7      151.729 171.564 -20.021  1.00 63.72       BS2
ATOM  32489  CG2 VAL B   7      149.263 171.852 -20.478  1.00 63.72       BS2
ATOM  32490  C   VAL B   7      149.858 170.475 -23.224  1.00143.86       BS2
ATOM  32491  O   VAL B   7      148.937 169.870 -22.672  1.00143.86       BS2
ATOM  32492  N   VAL B   7      150.779 172.760 -22.770  1.00143.86       BS2
ATOM  32493  CA  VAL B   7      150.839 171.315 -22.401  1.00143.86       BS2
ATOM  32494  N   LYS B   8      150.043 170.444 -24.544  1.00115.63       BS2
ATOM  32495  CA  LYS B   8      149.156 169.662 -25.416  1.00115.63       BS2
ATOM  32496  CB  LYS B   8      147.822 170.399 -25.656  1.00189.77       BS2
ATOM  32497  CG  LYS B   8      147.308 171.277 -24.516  1.00189.77       BS2
ATOM  32498  CD  LYS B   8      148.091 172.582 -24.434  1.00189.77       BS2
ATOM  32499  CE  LYS B   8      147.728 173.380 -23.195  1.00189.77       BS2
ATOM  32500  NZ  LYS B   8      148.597 174.583 -23.043  1.00189.77       BS2
ATOM  32501  C   LYS B   8      149.790 169.359 -26.782  1.00115.63       BS2
ATOM  32502  O   LYS B   8      150.689 168.518 -26.899  1.00115.63       BS2
ATOM  32503  N   GLU B   9      149.291 170.060 -27.802  1.00130.16       BS2
ATOM  32504  CA  GLU B   9      149.733 169.943 -29.193  1.00130.16       BS2
ATOM  32505  CB  GLU B   9      151.248 170.136 -29.294  1.00 99.35       BS2
ATOM  32506  CG  GLU B   9      151.768 170.493 -30.688  1.00 99.35       BS2
ATOM  32507  CD  GLU B   9      152.026 169.282 -31.568  1.00 99.35       BS2
ATOM  32508  OE1 GLU B   9      152.779 169.420 -32.557  1.00 99.35       BS2
ATOM  32509  OE2 GLU B   9      151.481 168.199 -31.276  1.00 99.35       BS2
ATOM  32510  C   GLU B   9      149.338 168.595 -29.763  1.00130.16       BS2
ATOM  32511  O   GLU B   9      149.468 167.572 -29.093  1.00130.16       BS2
ATOM  32512  N   LEU B  10      148.849 168.602 -31.000  1.00 61.54       BS2
ATOM  32513  CA  LEU B  10      148.423 167.369 -31.669  1.00 61.54       BS2
ATOM  32514  CB  LEU B  10      146.898 167.358 -31.834  1.00162.43       BS2
ATOM  32515  CG  LEU B  10      146.240 166.084 -32.377  1.00162.43       BS2
ATOM  32516  CD1 LEU B  10      144.758 166.106 -32.040  1.00162.43       BS2
ATOM  32517  CD2 LEU B  10      146.451 165.971 -33.878  1.00162.43       BS2
ATOM  32518  C   LEU B  10      149.100 167.254 -33.028  1.00 61.54       BS2
ATOM  32519  O   LEU B  10      149.251 166.159 -33.577  1.00 61.54       BS2
ATOM  32520  N   LEU B  11      149.493 168.403 -33.568  1.00 76.05       BS2
ATOM  32521  CA  LEU B  11      150.180 168.448 -34.843  1.00 76.05       BS2
ATOM  32522  CB  LEU B  11      150.091 169.847 -35.453  1.00160.37       BS2
ATOM  32523  CG  LEU B  11      148.677 170.284 -35.844  1.00160.37       BS2
ATOM  32524  CD1 LEU B  11      148.715 171.690 -36.423  1.00160.37       BS2
ATOM  32525  CD2 LEU B  11      148.100 169.302 -36.855  1.00160.37       BS2
ATOM  32526  C   LEU B  11      151.619 168.096 -34.520  1.00 76.05       BS2
ATOM  32527  O   LEU B  11      152.565 168.786 -34.927  1.00 76.05       BS2
ATOM  32528  N   GLU B  12      151.770 167.015 -33.758  1.00 70.76       BS2
ATOM  32529  CA  GLU B  12      153.087 166.559 -33.366  1.00 70.76       BS2
ATOM  32530  CB  GLU B  12      153.029 165.588 -32.191  1.00 98.09       BS2
ATOM  32531  CG  GLU B  12      154.334 165.631 -31.454  1.00 98.09       BS2
ATOM  32532  CD  GLU B  12      155.221 166.759 -31.998  1.00 98.09       BS2
ATOM  32533  OE1 GLU B  12      156.147 166.469 -32.787  1.00 98.09       BS2
ATOM  32534  OE2 GLU B  12      154.970 167.942 -31.664  1.00 98.09       BS2
ATOM  32535  C   GLU B  12      153.786 165.905 -34.534  1.00 70.76       BS2
ATOM  32536  O   GLU B  12      154.913 165.421 -34.420  1.00 70.76       BS2
ATOM  32537  N   ALA B  13      153.099 165.893 -35.666  1.00103.38       BS2
ATOM  32538  CA  ALA B  13      153.669 165.337 -36.871  1.00103.38       BS2
ATOM  32539  CB  ALA B  13      152.719 165.547 -38.041  1.00 32.72       BS2
ATOM  32540  C   ALA B  13      154.943 166.149 -37.054  1.00103.38       BS2
ATOM  32541  O   ALA B  13      155.842 165.775 -37.808  1.00103.38       BS2
ATOM  32542  N   GLY B  14      155.005 167.267 -36.334  1.00 87.69       BS2
ATOM  32543  CA  GLY B  14      156.161 168.136 -36.395  1.00 87.69       BS2
ATOM  32544  C   GLY B  14      157.444 167.419 -36.020  1.00 87.69       BS2
ATOM  32545  O   GLY B  14      158.532 167.906 -36.333  1.00 87.69       BS2
ATOM  32546  N   VAL B  15      157.331 166.272 -35.348  1.00 83.37       BS2
ATOM  32547  CA  VAL B  15      158.518 165.511 -34.950  1.00 83.37       BS2
ATOM  32548  CB  VAL B  15      159.098 166.023 -33.604  1.00 81.36       BS2
ATOM  32549  CG1 VAL B  15      160.479 165.428 -33.391  1.00 81.36       BS2
ATOM  32550  CG2 VAL B  15      159.152 167.539 -33.579  1.00 81.36       BS2
ATOM  32551  C   VAL B  15      158.314 163.992 -34.809  1.00 83.37       BS2
ATOM  32552  O   VAL B  15      158.309 163.257 -35.796  1.00 83.37       BS2
ATOM  32553  N   HIS B  16      158.164 163.555 -33.559  1.00142.00       BS2
ATOM  32554  CA  HIS B  16      157.977 162.157 -33.161  1.00142.00       BS2
ATOM  32555  CB  HIS B  16      156.948 162.069 -32.037  1.00159.59       BS2
ATOM  32556  CG  HIS B  16      157.407 162.691 -30.762  1.00159.59       BS2
ATOM  32557  CD2 HIS B  16      156.820 163.598 -29.947  1.00159.59       BS2
ATOM  32558  ND1 HIS B  16      158.630 162.402 -30.200  1.00159.59       BS2
ATOM  32559  CE1 HIS B  16      158.780 163.107 -29.094  1.00159.59       BS2
ATOM  32560  NE2 HIS B  16      157.696 163.842 -28.917  1.00159.59       BS2
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ATOM  32561  C   HIS B  16     157.620 161.107 -34.187  1.00142.00       BS2
ATOM  32562  O   HIS B  16     158.207 161.030 -35.261  1.00142.00       BS2
ATOM  32563  N   PHE B  17     156.650 160.285 -33.802  1.00 93.87       BS2
ATOM  32564  CA  PHE B  17     156.138 159.172 -34.591  1.00 93.87       BS2
ATOM  32565  CB  PHE B  17     154.826 159.579 -35.293  1.00 62.68       BS2
ATOM  32566  CG  PHE B  17     155.002 160.359 -36.562  1.00 62.68       BS2
ATOM  32567  CD1 PHE B  17     155.925 161.391 -36.655  1.00 62.68       BS2
ATOM  32568  CD2 PHE B  17     154.204 160.075 -37.665  1.00 62.68       BS2
ATOM  32569  CE1 PHE B  17     156.056 162.131 -37.828  1.00 62.68       BS2
ATOM  32570  CE2 PHE B  17     154.323 160.810 -38.845  1.00 62.68       BS2
ATOM  32571  CZ  PHE B  17     155.253 161.840 -38.924  1.00 62.68       BS2
ATOM  32572  C   PHE B  17     157.118 158.537 -35.576  1.00 93.87       BS2
ATOM  32573  O   PHE B  17     158.328 158.745 -35.485  1.00 93.87       BS2
ATOM  32574  N   GLY B  18     156.586 157.728 -36.486  1.00103.01       BS2
ATOM  32575  CA  GLY B  18     157.402 157.056 -37.484  1.00103.01       BS2
ATOM  32576  C   GLY B  18     158.886 156.884 -37.205  1.00103.01       BS2
ATOM  32577  O   GLY B  18     159.646 157.857 -37.222  1.00103.01       BS2
ATOM  32578  N   HIS B  19     159.300 155.642 -36.952  1.00123.62       BS2
ATOM  32579  CA  HIS B  19     160.706 155.329 -36.699  1.00123.62       BS2
ATOM  32580  CB  HIS B  19     161.131 155.834 -35.315  1.00186.88       BS2
ATOM  32581  CG  HIS B  19     162.616 155.953 -35.148  1.00186.88       BS2
ATOM  32582  CD2 HIS B  19     163.454 155.443 -34.215  1.00186.88       BS2
ATOM  32583  ND1 HIS B  19     163.407 156.681 -36.012  1.00186.88       BS2
ATOM  32584  CE1 HIS B  19     164.666 156.612 -35.619  1.00186.88       BS2
ATOM  32585  NE2 HIS B  19     164.722 155.867 -34.530  1.00186.88       BS2
ATOM  32586  C   HIS B  19     160.993 153.828 -36.825  1.00123.62       BS2
ATOM  32587  O   HIS B  19     160.095 153.043 -37.140  1.00123.62       BS2
ATOM  32588  N   GLU B  20     162.249 153.449 -36.575  1.00 63.87       BS2
ATOM  32589  CA  GLU B  20     162.724 152.065 -36.664  1.00 63.87       BS2
ATOM  32590  CB  GLU B  20     162.299 151.238 -35.440  1.00 64.65       BS2
ATOM  32591  CG  GLU B  20     162.572 151.879 -34.080  1.00 64.65       BS2
ATOM  32592  CD  GLU B  20     164.027 152.220 -33.847  1.00 64.65       BS2
ATOM  32593  OE1 GLU B  20     164.643 152.810 -34.751  1.00 64.65       BS2
ATOM  32594  OE2 GLU B  20     164.553 151.916 -32.755  1.00 64.65       BS2
ATOM  32595  C   GLU B  20     162.213 151.396 -37.935  1.00 63.87       BS2
ATOM  32596  O   GLU B  20     161.013 151.165 -38.102  1.00 63.87       BS2
ATOM  32597  N   ARG B  21     163.151 151.095 -38.827  1.00 80.70       BS2
ATOM  32598  CA  ARG B  21     162.866 150.464 -40.107  1.00 80.70       BS2
ATOM  32599  CB  ARG B  21     164.134 149.779 -40.633  1.00141.92       BS2
ATOM  32600  CG  ARG B  21     164.836 148.886 -39.618  1.00141.92       BS2
ATOM  32601  CD  ARG B  21     166.324 149.196 -39.558  1.00141.92       BS2
ATOM  32602  NE  ARG B  21     166.588 150.520 -38.998  1.00141.92       BS2
ATOM  32603  CZ  ARG B  21     166.451 150.833 -37.712  1.00141.92       BS2
ATOM  32604  NH1 ARG B  21     166.054 149.916 -36.837  1.00141.92       BS2
ATOM  32605  NH2 ARG B  21     166.709 152.066 -37.300  1.00141.92       BS2
ATOM  32606  C   ARG B  21     161.714 149.473 -40.061  1.00 80.70       BS2
ATOM  32607  O   ARG B  21     160.552 149.866 -40.129  1.00 80.70       BS2
ATOM  32608  N   LYS B  22     162.035 148.190 -39.939  1.00 61.01       BS2
ATOM  32609  CA  LYS B  22     161.014 147.150 -39.910  1.00 61.01       BS2
ATOM  32610  CB  LYS B  22     160.529 146.871 -41.339  1.00106.63       BS2
ATOM  32611  CG  LYS B  22     159.300 145.988 -41.456  1.00106.63       BS2
ATOM  32612  CD  LYS B  22     158.853 145.898 -42.910  1.00106.63       BS2
ATOM  32613  CE  LYS B  22     157.767 144.847 -43.108  1.00106.63       BS2
ATOM  32614  NZ  LYS B  22     157.309 144.780 -44.527  1.00106.63       BS2
ATOM  32615  C   LYS B  22     161.580 145.888 -39.273  1.00 61.01       BS2
ATOM  32616  O   LYS B  22     161.350 144.772 -39.730  1.00 61.01       BS2
ATOM  32617  N   ARG B  23     162.353 146.090 -38.218  1.00149.09       BS2
ATOM  32618  CA  ARG B  23     162.930 144.987 -37.480  1.00149.09       BS2
ATOM  32619  CB  ARG B  23     164.340 145.362 -37.018  1.00126.95       BS2
ATOM  32620  CG  ARG B  23     164.471 146.778 -36.464  1.00126.95       BS2
ATOM  32621  CD  ARG B  23     163.625 146.948 -35.219  1.00126.95       BS2
ATOM  32622  NE  ARG B  23     163.918 145.901 -34.244  1.00126.95       BS2
ATOM  32623  CZ  ARG B  23     163.155 145.612 -33.197  1.00126.95       BS2
ATOM  32624  NH1 ARG B  23     162.039 146.290 -32.982  1.00126.95       BS2
ATOM  32625  NH2 ARG B  23     163.511 144.645 -32.362  1.00126.95       BS2
ATOM  32626  C   ARG B  23     161.976 144.790 -36.302  1.00149.09       BS2
ATOM  32627  O   ARG B  23     162.007 143.774 -35.614  1.00149.09       BS2
ATOM  32628  N   TRP B  24     161.126 145.799 -36.118  1.00 81.79       BS2
ATOM  32629  CA  TRP B  24     160.083 145.899 -35.091  1.00 81.79       BS2
ATOM  32630  CB  TRP B  24     158.720 146.041 -35.775  1.00 62.12       BS2
ATOM  32631  CG  TRP B  24     158.082 144.727 -36.113  1.00 62.12       BS2
ATOM  32632  CD2 TRP B  24     156.695 144.400 -36.017  1.00 62.12       BS2
ATOM  32633  CE2 TRP B  24     156.547 143.072 -36.472  1.00 62.12       BS2
ATOM  32634  CE3 TRP B  24     155.562 145.100 -35.595  1.00 62.12       BS2
ATOM  32635  CD1 TRP B  24     158.702 143.620 -36.602  1.00 62.12       BS2
ATOM  32636  NE1 TRP B  24     157.790 142.619 -36.821  1.00 62.12       BS2
ATOM  32637  CZ2 TRP B  24     155.305 142.424 -36.518  1.00 62.12       BS2
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ATOM  32638  CZ3 TRP B  24     154.326 144.456 -35.642  1.00 62.12       BS2
ATOM  32639  CH2 TRP B  24     154.210 143.128 -36.102  1.00 62.12       BS2
ATOM  32640  C   TRP B  24     159.940 144.837 -34.005  1.00 81.79       BS2
ATOM  32641  O   TRP B  24     160.839 144.049 -33.738  1.00 81.79       BS2
ATOM  32642  N   ASN B  25     158.768 144.863 -33.376  1.00 48.18       BS2
ATOM  32643  CA  ASN B  25     158.387 143.941 -32.314  1.00 48.18       BS2
ATOM  32644  CB  ASN B  25     158.774 144.472 -30.942  1.00 37.87       BS2
ATOM  32645  CG  ASN B  25     158.317 143.558 -29.835  1.00 37.87       BS2
ATOM  32646  OD1 ASN B  25     158.813 143.637 -28.709  1.00 37.87       BS2
ATOM  32647  ND2 ASN B  25     157.362 142.676 -30.144  1.00 37.87       BS2
ATOM  32648  C   ASN B  25     156.881 143.779 -32.370  1.00 48.18       BS2
ATOM  32649  O   ASN B  25     156.131 144.614 -31.878  1.00 48.18       BS2
ATOM  32650  N   PRO B  26     156.429 142.668 -32.939  1.00 44.16       BS2
ATOM  32651  CD  PRO B  26     157.260 141.463 -33.082  1.00 59.91       BS2
ATOM  32652  CA  PRO B  26     155.021 142.332 -33.101  1.00 44.16       BS2
ATOM  32653  CB  PRO B  26     155.035 140.812 -33.051  1.00 59.91       BS2
ATOM  32654  CG  PRO B  26     156.312 140.495 -33.723  1.00 59.91       BS2
ATOM  32655  C   PRO B  26     154.069 142.946 -32.083  1.00 44.16       BS2
ATOM  32656  O   PRO B  26     152.950 143.315 -32.434  1.00 44.16       BS2
ATOM  32657  N   LYS B  27     154.512 143.062 -30.834  1.00 45.69       BS2
ATOM  32658  CA  LYS B  27     153.666 143.606 -29.777  1.00 45.69       BS2
ATOM  32659  CB  LYS B  27     154.299 143.355 -28.413  1.00 69.53       BS2
ATOM  32660  CG  LYS B  27     154.331 141.895 -28.031  1.00 69.53       BS2
ATOM  32661  CD  LYS B  27     154.931 141.712 -26.664  1.00 69.53       BS2
ATOM  32662  CE  LYS B  27     154.923 140.256 -26.265  1.00 69.53       BS2
ATOM  32663  NZ  LYS B  27     155.505 140.052 -24.911  1.00 69.53       BS2
ATOM  32664  C   LYS B  27     153.361 145.083 -29.934  1.00 45.69       BS2
ATOM  32665  O   LYS B  27     152.230 145.513 -29.718  1.00 45.69       BS2
ATOM  32666  N   PHE B  28     154.369 145.856 -30.316  1.00 56.08       BS2
ATOM  32667  CA  PHE B  28     154.195 147.289 -30.507  1.00 56.08       BS2
ATOM  32668  CB  PHE B  28     155.534 147.934 -30.846  1.00 44.43       BS2
ATOM  32669  CG  PHE B  28     155.600 149.372 -30.493  1.00 44.43       BS2
ATOM  32670  CD1 PHE B  28     156.111 149.769 -29.266  1.00 44.43       BS2
ATOM  32671  CD2 PHE B  28     155.086 150.330 -31.349  1.00 44.43       BS2
ATOM  32672  CE1 PHE B  28     156.106 151.106 -28.890  1.00 44.43       BS2
ATOM  32673  CE2 PHE B  28     155.072 151.674 -30.986  1.00 44.43       BS2
ATOM  32674  CZ  PHE B  28     155.581 152.066 -29.754  1.00 44.43       BS2
ATOM  32675  C   PHE B  28     153.200 147.587 -31.636  1.00 56.08       BS2
ATOM  32676  O   PHE B  28     152.848 148.742 -31.885  1.00 56.08       BS2
ATOM  32677  N   ALA B  29     152.749 146.536 -32.311  1.00 66.64       BS2
ATOM  32678  CA  ALA B  29     151.824 146.673 -33.424  1.00 66.64       BS2
ATOM  32679  CB  ALA B  29     151.420 145.300 -33.934  1.00 76.22       BS2
ATOM  32680  C   ALA B  29     150.583 147.479 -33.095  1.00 66.64       BS2
ATOM  32681  O   ALA B  29     150.042 148.160 -33.974  1.00 66.64       BS2
ATOM  32682  N   ARG B  30     150.129 147.400 -31.842  1.00 57.85       BS2
ATOM  32683  CA  ARG B  30     148.925 148.118 -31.428  1.00 57.85       BS2
ATOM  32684  CB  ARG B  30     148.577 147.819 -29.964  1.00107.68       BS2
ATOM  32685  CG  ARG B  30     149.445 148.511 -28.936  1.00107.68       BS2
ATOM  32686  CD  ARG B  30     149.283 147.870 -27.561  1.00107.68       BS2
ATOM  32687  NE  ARG B  30     149.583 146.439 -27.612  1.00107.68       BS2
ATOM  32688  CZ  ARG B  30     150.062 145.726 -26.595  1.00107.68       BS2
ATOM  32689  NH1 ARG B  30     150.306 146.304 -25.425  1.00107.68       BS2
ATOM  32690  NH2 ARG B  30     150.305 144.428 -26.750  1.00107.68       BS2
ATOM  32691  C   ARG B  30     149.083 149.612 -31.637  1.00 57.85       BS2
ATOM  32692  O   ARG B  30     148.114 150.299 -31.931  1.00 57.85       BS2
ATOM  32693  N   TYR B  31     150.310 150.111 -31.516  1.00 49.23       BS2
ATOM  32694  CA  TYR B  31     150.577 151.538 -31.700  1.00 49.23       BS2
ATOM  32695  CB  TYR B  31     151.541 152.029 -30.618  1.00 68.53       BS2
ATOM  32696  CG  TYR B  31     151.081 151.790 -29.206  1.00 68.53       BS2
ATOM  32697  CD1 TYR B  31     151.993 151.481 -28.209  1.00 68.53       BS2
ATOM  32698  CE1 TYR B  31     151.587 151.250 -26.912  1.00 68.53       BS2
ATOM  32699  CD2 TYR B  31     149.740 151.868 -28.867  1.00 68.53       BS2
ATOM  32700  CE2 TYR B  31     149.318 151.640 -27.571  1.00 68.53       BS2
ATOM  32701  CZ  TYR B  31     150.248 151.328 -26.598  1.00 68.53       BS2
ATOM  32702  OH  TYR B  31     149.834 151.078 -25.311  1.00 68.53       BS2
ATOM  32703  C   TYR B  31     151.181 151.882 -33.067  1.00 49.23       BS2
ATOM  32704  O   TYR B  31     151.887 152.880 -33.190  1.00 49.23       BS2
ATOM  32705  N   ILE B  32     150.920 151.079 -34.093  1.00 78.86       BS2
ATOM  32706  CA  ILE B  32     151.502 151.367 -35.400  1.00 78.86       BS2
ATOM  32707  CB  ILE B  32     152.360 150.197 -35.896  1.00 60.97       BS2
ATOM  32708  CG2 ILE B  32     152.845 150.469 -37.314  1.00 60.97       BS2
ATOM  32709  CG1 ILE B  32     153.555 150.018 -34.963  1.00 60.97       BS2
ATOM  32710  CD1 ILE B  32     154.346 148.795 -35.251  1.00 60.97       BS2
ATOM  32711  C   ILE B  32     150.492 151.717 -36.471  1.00 78.86       BS2
ATOM  32712  O   ILE B  32     149.546 150.971 -36.718  1.00 78.86       BS2
ATOM  32713  N   TYR B  33     150.718 152.857 -37.115  1.00 94.71       BS2
ATOM  32714  CA  TYR B  33     149.829 153.339 -38.157  1.00 94.71       BS2
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ATOM  32715  CB  TYR B  33     149.992 154.849 -38.330  1.00141.86      BS2
ATOM  32716  CG  TYR B  33     148.973 155.460 -39.261  1.00141.86      BS2
ATOM  32717  CD1 TYR B  33     147.608 155.361 -38.994  1.00141.86      BS2
ATOM  32718  CE1 TYR B  33     146.669 155.911 -39.856  1.00141.86      BS2
ATOM  32719  CD2 TYR B  33     149.373 156.130 -40.415  1.00141.86      BS2
ATOM  32720  CE2 TYR B  33     148.442 156.684 -41.283  1.00141.86      BS2
ATOM  32721  CZ  TYR B  33     147.094 156.571 -40.999  1.00141.86      BS2
ATOM  32722  OH  TYR B  33     146.176 157.115 -41.865  1.00141.86      BS2
ATOM  32723  C   TYR B  33     150.083 152.631 -39.479  1.00 94.71       BS2
ATOM  32724  O   TYR B  33     149.141 152.221 -40.159  1.00 94.71       BS2
ATOM  32725  N   ALA B  34     151.354 152.499 -39.846  1.00 78.01       BS2
ATOM  32726  CA  ALA B  34     151.715 151.814 -41.084  1.00 78.01       BS2
ATOM  32727  CB  ALA B  34     150.872 152.326 -42.240  1.00 49.81       BS2
ATOM  32728  C   ALA B  34     153.191 151.915 -41.441  1.00 78.01       BS2
ATOM  32729  O   ALA B  34     153.976 152.581 -40.759  1.00 78.01       BS2
ATOM  32730  N   GLU B  35     153.558 151.238 -42.523  1.00106.44      BS2
ATOM  32731  CA  GLU B  35     154.932 151.221 -42.991  1.00106.44      BS2
ATOM  32732  CB  GLU B  35     155.309 149.816 -43.447  1.00164.86      BS2
ATOM  32733  CG  GLU B  35     155.213 148.765 -42.366  1.00164.86      BS2
ATOM  32734  CD  GLU B  35     155.324 147.369 -42.930  1.00164.86      BS2
ATOM  32735  OE1 GLU B  35     156.289 147.117 -43.680  1.00164.86      BS2
ATOM  32736  OE2 GLU B  35     154.450 146.528 -42.630  1.00164.86      BS2
ATOM  32737  C   GLU B  35     155.130 152.188 -44.141  1.00106.44      BS2
ATOM  32738  O   GLU B  35     154.243 152.379 -44.976  1.00106.44      BS2
ATOM  32739  N   ARG B  36     156.309 152.795 -44.174  1.00124.50      BS2
ATOM  32740  CA  ARG B  36     156.672 153.743 -45.210  1.00124.50      BS2
ATOM  32741  CB  ARG B  36     156.242 155.149 -44.822  1.00 85.15       BS2
ATOM  32742  CG  ARG B  36     154.772 155.429 -45.044  1.00 85.15       BS2
ATOM  32743  CD  ARG B  36     154.490 156.878 -44.718  1.00 85.15       BS2
ATOM  32744  NE  ARG B  36     153.113 157.275 -44.980  1.00 85.15       BS2
ATOM  32745  CZ  ARG B  36     152.596 158.428 -44.571  1.00 85.15       BS2
ATOM  32746  NH1 ARG B  36     153.348 159.283 -43.883  1.00 85.15       BS2
ATOM  32747  NH2 ARG B  36     151.333 158.728 -44.849  1.00 85.15       BS2
ATOM  32748  C   ARG B  36     158.173 153.710 -45.398  1.00124.50      BS2
ATOM  32749  O   ARG B  36     158.928 153.752 -44.425  1.00124.50      BS2
ATOM  32750  N   ASN B  37     158.603 153.636 -46.653  1.00201.30      BS2
ATOM  32751  CA  ASN B  37     160.022 153.588 -46.966  1.00201.30      BS2
ATOM  32752  CB  ASN B  37     160.699 154.902 -46.558  1.00201.30      BS2
ATOM  32753  CG  ASN B  37     159.978 156.126 -47.101  1.00201.30      BS2
ATOM  32754  OD1 ASN B  37     159.748 156.242 -48.306  1.00201.30      BS2
ATOM  32755  ND2 ASN B  37     159.620 157.047 -46.211  1.00201.30      BS2
ATOM  32756  C   ASN B  37     160.632 152.424 -46.192  1.00201.30      BS2
ATOM  32757  O   ASN B  37     161.799 152.465 -45.796  1.00201.30      BS2
ATOM  32758  N   GLY B  38     159.825 151.390 -45.974  1.00201.30      BS2
ATOM  32759  CA  GLY B  38     160.289 150.226 -45.244  1.00201.30      BS2
ATOM  32760  C   GLY B  38     160.393 150.500 -43.757  1.00201.30      BS2
ATOM  32761  O   GLY B  38     161.102 149.799 -43.035  1.00201.30      BS2
ATOM  32762  N   ILE B  39     159.686 151.526 -43.298  1.00 55.50       BS2
ATOM  32763  CA  ILE B  39     159.702 151.892 -41.887  1.00 55.50       BS2
ATOM  32764  CB  ILE B  39     160.493 153.192 -41.670  1.00106.21      BS2
ATOM  32765  CG2 ILE B  39     160.512 153.553 -40.189  1.00106.21      BS2
ATOM  32766  CG1 ILE B  39     161.916 153.015 -42.209  1.00106.21      BS2
ATOM  32767  CD1 ILE B  39     162.791 154.248 -42.086  1.00106.21      BS2
ATOM  32768  C   ILE B  39     158.296 152.067 -41.308  1.00 55.50       BS2
ATOM  32769  O   ILE B  39     157.408 152.615 -41.954  1.00 55.50       BS2
ATOM  32770  N   HIS B  40     158.092 151.586 -40.089  1.00122.35      BS2
ATOM  32771  CA  HIS B  40     156.793 151.732 -39.456  1.00122.35      BS2
ATOM  32772  CB  HIS B  40     156.709 150.916 -38.168  1.00 92.58       BS2
ATOM  32773  CG  HIS B  40     156.716 149.437 -38.380  1.00 92.58       BS2
ATOM  32774  CD2 HIS B  40     155.712 148.574 -38.659  1.00 92.58       BS2
ATOM  32775  ND1 HIS B  40     157.866 148.681 -38.304  1.00 92.58       BS2
ATOM  32776  CE1 HIS B  40     157.568 147.414 -38.526  1.00 92.58       BS2
ATOM  32777  NE2 HIS B  40     156.268 147.322 -38.743  1.00 92.58       BS2
ATOM  32778  C   HIS B  40     156.604 153.196 -39.108  1.00122.35      BS2
ATOM  32779  O   HIS B  40     157.556 153.974 -39.129  1.00122.35      BS2
ATOM  32780  N   ILE B  41     155.372 153.564 -38.784  1.00 68.80       BS2
ATOM  32781  CA  ILE B  41     155.053 154.931 -38.404  1.00 68.80       BS2
ATOM  32782  CB  ILE B  41     154.514 155.744 -39.592  1.00106.12      BS2
ATOM  32783  CG2 ILE B  41     153.825 157.004 -39.093  1.00106.12      BS2
ATOM  32784  CG1 ILE B  41     155.664 156.099 -40.533  1.00106.12      BS2
ATOM  32785  CD1 ILE B  41     155.284 157.059 -41.633  1.00106.12      BS2
ATOM  32786  C   ILE B  41     154.013 154.936 -37.299  1.00 68.80       BS2
ATOM  32787  O   ILE B  41     152.850 154.584 -37.527  1.00 68.80       BS2
ATOM  32788  N   ILE B  42     154.440 155.338 -36.106  1.00 52.95       BS2
ATOM  32789  CA  ILE B  42     153.544 155.387 -34.960  1.00 52.95       BS2
ATOM  32790  CB  ILE B  42     154.231 155.987 -33.737  1.00 36.43       BS2
ATOM  32791  CG2 ILE B  42     153.320 155.874 -32.524  1.00 36.43       BS2
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ATOM  32792  CG1 ILE B  42     155.542 155.272 -33.467  1.00 36.43      BS2
ATOM  32793  CD1 ILE B  42     156.269 155.864 -32.283  1.00 36.43      BS2
ATOM  32794  C   ILE B  42     152.290 156.221 -35.221  1.00 52.95      BS2
ATOM  32795  O   ILE B  42     152.366 157.317 -35.784  1.00 52.95      BS2
ATOM  32796  N   ASP B  43     151.149 155.683 -34.787  1.00 64.67      BS2
ATOM  32797  CA  ASP B  43     149.834 156.310 -34.915  1.00 64.67      BS2
ATOM  32798  CB  ASP B  43     148.744 155.236 -34.758  1.00 93.91      BS2
ATOM  32799  CG  ASP B  43     147.332 155.785 -34.906  1.00 93.91      BS2
ATOM  32800  OD1 ASP B  43     147.027 156.830 -34.297  1.00 93.91      BS2
ATOM  32801  OD2 ASP B  43     146.516 155.156 -35.618  1.00 93.91      BS2
ATOM  32802  C   ASP B  43     149.715 157.348 -33.799  1.00 64.67      BS2
ATOM  32803  O   ASP B  43     149.188 157.059 -32.727  1.00 64.67      BS2
ATOM  32804  N   LEU B  44     150.224 158.549 -34.058  1.00 44.29      BS2
ATOM  32805  CA  LEU B  44     150.197 159.647 -33.098  1.00 44.29      BS2
ATOM  32806  CB  LEU B  44     150.505 160.951 -33.817  1.00 94.26      BS2
ATOM  32807  CG  LEU B  44     151.949 161.016 -34.291  1.00 94.26      BS2
ATOM  32808  CD1 LEU B  44     152.145 162.195 -35.222  1.00 94.26      BS2
ATOM  32809  CD2 LEU B  44     152.854 161.114 -33.072  1.00 94.26      BS2
ATOM  32810  C   LEU B  44     148.881 159.782 -32.347  1.00 44.29      BS2
ATOM  32811  O   LEU B  44     148.861 160.137 -31.168  1.00 44.29      BS2
ATOM  32812  N   GLN B  45     147.779 159.512 -33.033  1.00 61.98      BS2
ATOM  32813  CA  GLN B  45     146.474 159.601 -32.404  1.00 61.98      BS2
ATOM  32814  CB  GLN B  45     145.421 158.935 -33.290  1.00161.55      BS2
ATOM  32815  CG  GLN B  45     145.258 159.573 -34.675  1.00161.55      BS2
ATOM  32816  CD  GLN B  45     146.480 159.416 -35.581  1.00161.55      BS2
ATOM  32817  OE1 GLN B  45     147.545 159.980 -35.324  1.00161.55      BS2
ATOM  32818  NE2 GLN B  45     146.321 158.649 -36.652  1.00161.55      BS2
ATOM  32819  C   GLN B  45     146.581 158.887 -31.056  1.00 61.98      BS2
ATOM  32820  O   GLN B  45     146.490 159.509 -29.992  1.00 61.98      BS2
ATOM  32821  N   LYS B  46     146.807 157.579 -31.113  1.00 82.18      BS2
ATOM  32822  CA  LYS B  46     146.947 156.774 -29.909  1.00 82.18      BS2
ATOM  32823  CB  LYS B  46     147.328 155.334 -30.274  1.00116.23      BS2
ATOM  32824  CG  LYS B  46     146.200 154.583 -30.962  1.00116.23      BS2
ATOM  32825  CD  LYS B  46     146.655 153.277 -31.578  1.00116.23      BS2
ATOM  32826  CE  LYS B  46     145.497 152.602 -32.305  1.00116.23      BS2
ATOM  32827  NZ  LYS B  46     145.915 151.397 -33.079  1.00116.23      BS2
ATOM  32828  C   LYS B  46     148.008 157.397 -29.029  1.00 82.18      BS2
ATOM  32829  O   LYS B  46     147.810 157.545 -27.831  1.00 82.18      BS2
ATOM  32830  N   THR B  47     149.130 157.773 -29.630  1.00 40.77      BS2
ATOM  32831  CA  THR B  47     150.206 158.399 -28.877  1.00 40.77      BS2
ATOM  32832  CB  THR B  47     151.248 159.055 -29.809  1.00 45.10      BS2
ATOM  32833  OG1 THR B  47     151.851 158.052 -30.635  1.00 45.10      BS2
ATOM  32834  CG2 THR B  47     152.331 159.748 -28.992  1.00 45.10      BS2
ATOM  32835  C   THR B  47     149.616 159.471 -27.957  1.00 40.77      BS2
ATOM  32836  O   THR B  47     150.036 159.622 -26.804  1.00 40.77      BS2
ATOM  32837  N   MET B  48     148.634 160.211 -28.470  1.00 69.71      BS2
ATOM  32838  CA  MET B  48     147.977 161.246 -27.680  1.00 69.71      BS2
ATOM  32839  CB  MET B  48     146.912 161.958 -28.513  1.00127.30      BS2
ATOM  32840  CG  MET B  48     147.470 162.911 -29.547  1.00127.30      BS2
ATOM  32841  SD  MET B  48     148.296 164.331 -28.790  1.00127.30      BS2
ATOM  32842  CE  MET B  48     146.971 165.562 -28.827  1.00127.30      BS2
ATOM  32843  C   MET B  48     147.318 160.584 -26.481  1.00 69.71      BS2
ATOM  32844  O   MET B  48     147.643 160.881 -25.329  1.00 69.71      BS2
ATOM  32845  N   GLU B  49     146.393 159.673 -26.775  1.00 68.42      BS2
ATOM  32846  CA  GLU B  49     145.667 158.943 -25.745  1.00 68.42      BS2
ATOM  32847  CB  GLU B  49     144.988 157.716 -26.351  1.00200.98      BS2
ATOM  32848  CG  GLU B  49     143.904 158.065 -27.353  1.00200.98      BS2
ATOM  32849  CD  GLU B  49     143.212 156.844 -27.915  1.00200.98      BS2
ATOM  32850  OE1 GLU B  49     142.696 156.032 -27.118  1.00200.98      BS2
ATOM  32851  OE2 GLU B  49     143.180 156.698 -29.156  1.00200.98      BS2
ATOM  32852  C   GLU B  49     146.592 158.523 -24.615  1.00 68.42      BS2
ATOM  32853  O   GLU B  49     146.310 158.766 -23.444  1.00 68.42      BS2
ATOM  32854  N   GLU B  50     147.708 157.903 -24.968  1.00 64.56      BS2
ATOM  32855  CA  GLU B  50     148.649 157.463 -23.957  1.00 64.56      BS2
ATOM  32856  CB  GLU B  50     149.746 156.596 -24.582  1.00 88.50      BS2
ATOM  32857  CG  GLU B  50     149.279 155.193 -24.990  1.00 88.50      BS2
ATOM  32858  CD  GLU B  50     148.623 154.419 -23.846  1.00 88.50      BS2
ATOM  32859  OE1 GLU B  50     149.191 154.400 -22.733  1.00 88.50      BS2
ATOM  32860  OE2 GLU B  50     147.546 153.821 -24.062  1.00 88.50      BS2
ATOM  32861  C   GLU B  50     149.248 158.676 -23.273  1.00 64.56      BS2
ATOM  32862  O   GLU B  50     149.419 158.692 -22.053  1.00 64.56      BS2
ATOM  32863  N   LEU B  51     149.556 159.696 -24.065  1.00 58.26      BS2
ATOM  32864  CA  LEU B  51     150.123 160.917 -23.517  1.00 58.26      BS2
ATOM  32865  CB  LEU B  51     150.180 161.998 -24.588  1.00 58.48      BS2
ATOM  32866  CG  LEU B  51     151.411 161.929 -25.481  1.00 58.48      BS2
ATOM  32867  CD1 LEU B  51     151.162 162.716 -26.761  1.00 58.48      BS2
ATOM  32868  CD2 LEU B  51     152.624 162.447 -24.701  1.00 58.48      BS2
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ATOM  32869  C   LEU B  51     149.246 161.381 -22.374  1.00 58.26       BS2
ATOM  32870  O   LEU B  51     149.709 161.526 -21.239  1.00 58.26       BS2
ATOM  32871  N   GLU B  52     147.972 161.608 -22.688  1.00 76.30       BS2
ATOM  32872  CA  GLU B  52     147.014 162.050 -21.691  1.00 76.30       BS2
ATOM  32873  CB  GLU B  52     145.584 161.834 -22.196  1.00200.23       BS2
ATOM  32874  CG  GLU B  52     144.502 162.230 -21.200  1.00200.23       BS2
ATOM  32875  CD  GLU B  52     143.098 161.950 -21.710  1.00200.23       BS2
ATOM  32876  OE1 GLU B  52     142.130 162.224 -20.969  1.00200.23       BS2
ATOM  32877  OE2 GLU B  52     142.960 161.456 -22.849  1.00200.23       BS2
ATOM  32878  C   GLU B  52     147.260 161.211 -20.445  1.00 76.30       BS2
ATOM  32879  O   GLU B  52     147.988 161.620 -19.527  1.00 76.30       BS2
ATOM  32880  N   ARG B  53     146.662 160.023 -20.446  1.00 68.19       BS2
ATOM  32881  CA  ARG B  53     146.770 159.072 -19.349  1.00 68.19       BS2
ATOM  32882  CB  ARG B  53     146.531 157.660 -19.887  1.00 76.10       BS2
ATOM  32883  CG  ARG B  53     146.690 156.578 -18.848  1.00 76.10       BS2
ATOM  32884  CD  ARG B  53     146.343 155.191 -19.370  1.00 76.10       BS2
ATOM  32885  NE  ARG B  53     146.578 154.216 -18.314  1.00 76.10       BS2
ATOM  32886  CZ  ARG B  53     147.784 153.901 -17.854  1.00 76.10       BS2
ATOM  32887  NH1 ARG B  53     148.863 154.469 -18.372  1.00 76.10       BS2
ATOM  32888  NH2 ARG B  53     147.911 153.055 -16.842  1.00 76.10       BS2
ATOM  32889  C   ARG B  53     148.123 159.138 -18.639  1.00 68.19       BS2
ATOM  32890  O   ARG B  53     148.201 159.238 -17.413  1.00 68.19       BS2
ATOM  32891  N   THR B  54     149.188 159.092 -19.425  1.00 48.12       BS2
ATOM  32892  CA  THR B  54     150.529 159.125 -18.873  1.00 48.12       BS2
ATOM  32893  CB  THR B  54     151.576 159.048 -19.984  1.00 83.48       BS2
ATOM  32894  OG1 THR B  54     151.453 157.792 -20.667  1.00 83.48       BS2
ATOM  32895  CG2 THR B  54     152.965 159.175 -19.399  1.00 83.48       BS2
ATOM  32896  C   THR B  54     150.776 160.369 -18.051  1.00 48.12       BS2
ATOM  32897  O   THR B  54     151.067 160.289 -16.862  1.00 48.12       BS2
ATOM  32898  N   PHE B  55     150.659 161.526 -18.683  1.00 71.97       BS2
ATOM  32899  CA  PHE B  55     150.892 162.764 -17.964  1.00 71.97       BS2
ATOM  32900  CB  PHE B  55     150.686 163.967 -18.895  1.00 81.40       BS2
ATOM  32901  CG  PHE B  55     151.877 164.250 -19.780  1.00 81.40       BS2
ATOM  32902  CD1 PHE B  55     152.216 163.384 -20.816  1.00 81.40       BS2
ATOM  32903  CD2 PHE B  55     152.704 165.342 -19.527  1.00 81.40       BS2
ATOM  32904  CE1 PHE B  55     153.363 163.598 -21.579  1.00 81.40       BS2
ATOM  32905  CE2 PHE B  55     153.851 165.563 -20.284  1.00 81.40       BS2
ATOM  32906  CZ  PHE B  55     154.181 164.690 -21.309  1.00 81.40       BS2
ATOM  32907  C   PHE B  55     150.003 162.846 -16.729  1.00 71.97       BS2
ATOM  32908  O   PHE B  55     150.477 163.201 -15.644  1.00 71.97       BS2
ATOM  32909  N   ARG B  56     148.727 162.490 -16.894  1.00 87.83       BS2
ATOM  32910  CA  ARG B  56     147.772 162.509 -15.785  1.00 87.83       BS2
ATOM  32911  CB  ARG B  56     146.569 161.603 -16.072  1.00136.44       BS2
ATOM  32912  CG  ARG B  56     145.756 161.953 -17.306  1.00136.44       BS2
ATOM  32913  CD  ARG B  56     144.426 161.194 -17.314  1.00136.44       BS2
ATOM  32914  NE  ARG B  56     144.596 159.739 -17.290  1.00136.44       BS2
ATOM  32915  CZ  ARG B  56     143.602 158.862 -17.133  1.00136.44       BS2
ATOM  32916  NH1 ARG B  56     142.352 159.282 -16.982  1.00136.44       BS2
ATOM  32917  NH2 ARG B  56     143.855 157.559 -17.129  1.00136.44       BS2
ATOM  32918  C   ARG B  56     148.488 161.974 -14.561  1.00 87.83       BS2
ATOM  32919  O   ARG B  56     148.373 162.508 -13.457  1.00 87.83       BS2
ATOM  32920  N   PHE B  57     149.240 160.906 -14.786  1.00 53.84       BS2
ATOM  32921  CA  PHE B  57     149.986 160.260 -13.732  1.00 53.84       BS2
ATOM  32922  CB  PHE B  57     150.447 158.874 -14.193  1.00 35.01       BS2
ATOM  32923  CG  PHE B  57     151.395 158.212 -13.244  1.00 35.01       BS2
ATOM  32924  CD1 PHE B  57     151.015 157.937 -11.940  1.00 35.01       BS2
ATOM  32925  CD2 PHE B  57     152.685 157.906 -13.636  1.00 35.01       BS2
ATOM  32926  CE1 PHE B  57     151.913 157.369 -11.036  1.00 35.01       BS2
ATOM  32927  CE2 PHE B  57     153.586 157.338 -12.738  1.00 35.01       BS2
ATOM  32928  CZ  PHE B  57     153.198 157.072 -11.438  1.00 35.01       BS2
ATOM  32929  C   PHE B  57     151.179 161.096 -13.304  1.00 53.84       BS2
ATOM  32930  O   PHE B  57     151.415 161.268 -12.108  1.00 53.84       BS2
ATOM  32931  N   ILE B  58     151.928 161.626 -14.268  1.00 51.59       BS2
ATOM  32932  CA  ILE B  58     153.100 162.428 -13.921  1.00 51.59       BS2
ATOM  32933  CB  ILE B  58     153.809 162.990 -15.162  1.00 86.05       BS2
ATOM  32934  CG2 ILE B  58     155.062 163.751 -14.736  1.00 86.05       BS2
ATOM  32935  CG1 ILE B  58     154.216 161.852 -16.091  1.00 86.05       BS2
ATOM  32936  CD1 ILE B  58     155.011 162.311 -17.294  1.00 86.05       BS2
ATOM  32937  C   ILE B  58     152.747 163.593 -13.001  1.00 51.59       BS2
ATOM  32938  O   ILE B  58     153.466 163.879 -12.044  1.00 51.59       BS2
ATOM  32939  N   GLU B  59     151.646 164.273 -13.299  1.00 46.99       BS2
ATOM  32940  CA  GLU B  59     151.205 165.386 -12.469  1.00 46.99       BS2
ATOM  32941  CB  GLU B  59     150.011 166.078 -13.111  1.00 96.48       BS2
ATOM  32942  CG  GLU B  59     149.367 167.106 -12.224  1.00 96.48       BS2
ATOM  32943  CD  GLU B  59     148.385 167.960 -12.976  1.00 96.48       BS2
ATOM  32944  OE1 GLU B  59     147.463 167.396 -13.606  1.00 96.48       BS2
ATOM  32945  OE2 GLU B  59     148.540 169.198 -12.938  1.00 96.48       BS2
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ATOM  32946  C   GLU B  59     150.806 164.845 -11.105  1.00 46.99      BS2
ATOM  32947  O   GLU B  59     151.247 165.339 -10.064  1.00 46.99      BS2
ATOM  32948  N   ASP B  60     149.957 163.824 -11.125  1.00 60.69      BS2
ATOM  32949  CA  ASP B  60     149.506 163.199  -9.903  1.00 60.69      BS2
ATOM  32950  CB  ASP B  60     148.884 161.838 -10.208  1.00201.30      BS2
ATOM  32951  CG  ASP B  60     148.548 161.060  -8.954  1.00201.30      BS2
ATOM  32952  OD1 ASP B  60     149.473 160.751  -8.174  1.00201.30      BS2
ATOM  32953  OD2 ASP B  60     147.356 160.757  -8.749  1.00201.30      BS2
ATOM  32954  C   ASP B  60     150.715 163.018  -9.000  1.00 60.69      BS2
ATOM  32955  O   ASP B  60     150.803 163.618  -7.929  1.00 60.69      BS2
ATOM  32956  N   LEU B  61     151.657 162.199  -9.449  1.00 65.33      BS2
ATOM  32957  CA  LEU B  61     152.854 161.928  -8.669  1.00 65.33      BS2
ATOM  32958  CB  LEU B  61     153.689 160.838  -9.358  1.00 92.62      BS2
ATOM  32959  CG  LEU B  61     154.879 160.192  -8.630  1.00 92.62      BS2
ATOM  32960  CD1 LEU B  61     155.259 158.916  -9.347  1.00 92.62      BS2
ATOM  32961  CD2 LEU B  61     156.067 161.131  -8.583  1.00 92.62      BS2
ATOM  32962  C   LEU B  61     153.673 163.202  -8.493  1.00 65.33      BS2
ATOM  32963  O   LEU B  61     154.491 163.306  -7.578  1.00 65.33      BS2
ATOM  32964  N   ALA B  62     153.446 164.178  -9.365  1.00 42.05      BS2
ATOM  32965  CA  ALA B  62     154.191 165.430  -9.283  1.00 42.05      BS2
ATOM  32966  CB  ALA B  62     153.940 166.273 -10.527  1.00148.08      BS2
ATOM  32967  C   ALA B  62     153.788 166.205  -8.036  1.00 42.05      BS2
ATOM  32968  O   ALA B  62     154.602 166.423  -7.125  1.00 42.05      BS2
ATOM  32969  N   MET B  63     152.522 166.612  -8.002  1.00 65.07      BS2
ATOM  32970  CA  MET B  63     152.005 167.369  -6.876  1.00 65.07      BS2
ATOM  32971  CB  MET B  63     150.557 167.786  -7.126  1.00125.54      BS2
ATOM  32972  CG  MET B  63     149.616 166.643  -7.406  1.00125.54      BS2
ATOM  32973  SD  MET B  63     147.925 167.231  -7.496  1.00125.54      BS2
ATOM  32974  CE  MET B  63     147.343 166.810  -5.851  1.00125.54      BS2
ATOM  32975  C   MET B  63     152.105 166.578  -5.584  1.00 65.07      BS2
ATOM  32976  O   MET B  63     152.274 167.158  -4.517  1.00 65.07      BS2
ATOM  32977  N   ARG B  64     152.010 165.255  -5.674  1.00 55.88      BS2
ATOM  32978  CA  ARG B  64     152.105 164.409  -4.486  1.00 55.88      BS2
ATOM  32979  CB  ARG B  64     151.974 162.932  -4.867  1.00171.70      BS2
ATOM  32980  CG  ARG B  64     151.898 162.000  -3.670  1.00171.70      BS2
ATOM  32981  CD  ARG B  64     152.450 160.624  -3.997  1.00171.70      BS2
ATOM  32982  NE  ARG B  64     151.786 160.018  -5.145  1.00171.70      BS2
ATOM  32983  CZ  ARG B  64     152.126 158.843  -5.664  1.00171.70      BS2
ATOM  32984  NH1 ARG B  64     153.125 158.148  -5.133  1.00171.70      BS2
ATOM  32985  NH2 ARG B  64     151.472 158.362  -6.713  1.00171.70      BS2
ATOM  32986  C   ARG B  64     153.461 164.643  -3.816  1.00 55.88      BS2
ATOM  32987  O   ARG B  64     153.670 164.250  -2.664  1.00 55.88      BS2
ATOM  32988  N   GLY B  65     154.372 165.281  -4.558  1.00 74.19      BS2
ATOM  32989  CA  GLY B  65     155.709 165.576  -4.062  1.00 74.19      BS2
ATOM  32990  C   GLY B  65     156.703 164.437  -4.236  1.00 74.19      BS2
ATOM  32991  O   GLY B  65     157.746 164.403  -3.585  1.00 74.19      BS2
ATOM  32992  N   GLY B  66     156.390 163.505  -5.127  1.00126.46      BS2
ATOM  32993  CA  GLY B  66     157.268 162.369  -5.342  1.00126.46      BS2
ATOM  32994  C   GLY B  66     158.437 162.609  -6.277  1.00126.46      BS2
ATOM  32995  O   GLY B  66     158.767 163.747  -6.609  1.00126.46      BS2
ATOM  32996  N   THR B  67     159.064 161.517  -6.701  1.00 84.05      BS2
ATOM  32997  CA  THR B  67     160.206 161.580  -7.599  1.00 84.05      BS2
ATOM  32998  CB  THR B  67     161.439 160.945  -6.974  1.00 55.64      BS2
ATOM  32999  OG1 THR B  67     161.674 161.509  -5.680  1.00 55.64      BS2
ATOM  33000  CG2 THR B  67     162.648 161.178  -7.870  1.00 55.64      BS2
ATOM  33001  C   THR B  67     159.953 160.837  -8.901  1.00 84.05      BS2
ATOM  33002  O   THR B  67     159.025 160.035  -9.006  1.00 84.05      BS2
ATOM  33003  N   ILE B  68     160.799 161.101  -9.890  1.00 52.12      BS2
ATOM  33004  CA  ILE B  68     160.693 160.453 -11.183  1.00 52.12      BS2
ATOM  33005  CB  ILE B  68     159.833 161.241 -12.165  1.00 42.67      BS2
ATOM  33006  CG2 ILE B  68     159.740 160.485 -13.468  1.00 42.67      BS2
ATOM  33007  CG1 ILE B  68     158.438 161.460 -11.591  1.00 42.67      BS2
ATOM  33008  CD1 ILE B  68     157.522 162.248 -12.511  1.00 42.67      BS2
ATOM  33009  C   ILE B  68     162.075 160.379 -11.776  1.00 52.12      BS2
ATOM  33010  O   ILE B  68     162.478 161.271 -12.518  1.00 52.12      BS2
ATOM  33011  N   LEU B  69     162.799 159.316 -11.450  1.00 63.42      BS2
ATOM  33012  CA  LEU B  69     164.143 159.123 -11.966  1.00 63.42      BS2
ATOM  33013  CB  LEU B  69     164.734 157.832 -11.413  1.00 36.56      BS2
ATOM  33014  CG  LEU B  69     166.261 157.788 -11.347  1.00 36.56      BS2
ATOM  33015  CD1 LEU B  69     166.723 156.470 -10.727  1.00 36.56      BS2
ATOM  33016  CD2 LEU B  69     166.830 157.960 -12.740  1.00 36.56      BS2
ATOM  33017  C   LEU B  69     164.127 159.056 -13.489  1.00 63.42      BS2
ATOM  33018  O   LEU B  69     163.562 158.129 -14.075  1.00 63.42      BS2
ATOM  33019  N   PHE B  70     164.736 160.050 -14.127  1.00 70.03      BS2
ATOM  33020  CA  PHE B  70     164.810 160.073 -15.578  1.00 70.03      BS2
ATOM  33021  CB  PHE B  70     164.910 161.503 -16.105  1.00 52.79      BS2
ATOM  33022  CG  PHE B  70     163.638 162.281 -15.991  1.00 52.79      BS2
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ATOM  33023  CD1 PHE B  70     163.353 163.012 -14.845  1.00 52.79      BS2
ATOM  33024  CD2 PHE B  70     162.714 162.274 -17.028  1.00 52.79      BS2
ATOM  33025  CE1 PHE B  70     162.163 163.727 -14.736  1.00 52.79      BS2
ATOM  33026  CE2 PHE B  70     161.523 162.981 -16.933  1.00 52.79      BS2
ATOM  33027  CZ  PHE B  70     161.246 163.710 -15.786  1.00 52.79      BS2
ATOM  33028  C   PHE B  70     166.056 159.308 -15.981  1.00 70.03      BS2
ATOM  33029  O   PHE B  70     167.156 159.611 -15.505  1.00 70.03      BS2
ATOM  33030  N   VAL B  71     165.881 158.309 -16.844  1.00 53.53      BS2
ATOM  33031  CA  VAL B  71     167.003 157.504 -17.310  1.00 53.53      BS2
ATOM  33032  CB  VAL B  71     166.835 156.019 -16.938  1.00 70.20      BS2
ATOM  33033  CG1 VAL B  71     167.953 155.215 -17.549  1.00 70.20      BS2
ATOM  33034  CG2 VAL B  71     166.861 155.847 -15.425  1.00 70.20      BS2
ATOM  33035  C   VAL B  71     167.177 157.613 -18.816  1.00 53.53      BS2
ATOM  33036  O   VAL B  71     166.254 157.342 -19.589  1.00 53.53      BS2
ATOM  33037  N   GLY B  72     168.374 158.030 -19.212  1.00 91.59      BS2
ATOM  33038  CA  GLY B  72     168.705 158.181 -20.615  1.00 91.59      BS2
ATOM  33039  C   GLY B  72     170.190 157.931 -20.804  1.00 91.59      BS2
ATOM  33040  O   GLY B  72     171.016 158.816 -20.562  1.00 91.59      BS2
ATOM  33041  N   THR B  73     170.532 156.712 -21.213  1.00 60.53      BS2
ATOM  33042  CA  THR B  73     171.922 156.342 -21.439  1.00 60.53      BS2
ATOM  33043  CB  THR B  73     172.209 154.898 -20.973  1.00 91.37      BS2
ATOM  33044  OG1 THR B  73     171.832 154.749 -19.597  1.00 91.37      BS2
ATOM  33045  CG2 THR B  73     173.696 154.578 -21.118  1.00 91.37      BS2
ATOM  33046  C   THR B  73     172.189 156.448 -22.933  1.00 60.53      BS2
ATOM  33047  O   THR B  73     173.332 156.551 -23.370  1.00 60.53      BS2
ATOM  33048  N   LYS B  74     171.113 156.420 -23.709  1.00 69.04      BS2
ATOM  33049  CA  LYS B  74     171.196 156.533 -25.158  1.00 69.04      BS2
ATOM  33050  CB  LYS B  74     169.785 156.546 -25.738  1.00 66.99      BS2
ATOM  33051  CG  LYS B  74     169.690 157.043 -27.154  1.00 66.99      BS2
ATOM  33052  CD  LYS B  74     168.237 157.282 -27.505  1.00 66.99      BS2
ATOM  33053  CE  LYS B  74     167.496 155.976 -27.712  1.00 66.99      BS2
ATOM  33054  NZ  LYS B  74     167.611 155.502 -29.124  1.00 66.99      BS2
ATOM  33055  C   LYS B  74     171.935 157.822 -25.514  1.00 69.04      BS2
ATOM  33056  O   LYS B  74     171.845 158.812 -24.785  1.00 69.04      BS2
ATOM  33057  N   LYS B  75     172.656 157.811 -26.635  1.00117.69      BS2
ATOM  33058  CA  LYS B  75     173.426 158.977 -27.071  1.00117.69      BS2
ATOM  33059  CB  LYS B  75     174.469 158.566 -28.110  1.00178.50      BS2
ATOM  33060  CG  LYS B  75     175.892 158.804 -27.644  1.00178.50      BS2
ATOM  33061  CD  LYS B  75     176.092 160.258 -27.234  1.00178.50      BS2
ATOM  33062  CE  LYS B  75     177.439 160.470 -26.558  1.00178.50      BS2
ATOM  33063  NZ  LYS B  75     178.583 160.096 -27.436  1.00178.50      BS2
ATOM  33064  C   LYS B  75     172.604 160.138 -27.617  1.00117.69      BS2
ATOM  33065  O   LYS B  75     172.833 161.289 -27.249  1.00117.69      BS2
ATOM  33066  N   GLN B  76     171.660 159.843 -28.503  1.00 92.17      BS2
ATOM  33067  CA  GLN B  76     170.809 160.878 -29.075  1.00 92.17      BS2
ATOM  33068  CB  GLN B  76     169.919 160.289 -30.169  1.00118.20      BS2
ATOM  33069  CG  GLN B  76     170.546 160.252 -31.543  1.00118.20      BS2
ATOM  33070  CD  GLN B  76     170.770 161.638 -32.110  1.00118.20      BS2
ATOM  33071  OE1 GLN B  76     171.604 162.396 -31.613  1.00118.20      BS2
ATOM  33072  NE2 GLN B  76     170.019 161.981 -33.154  1.00118.20      BS2
ATOM  33073  C   GLN B  76     169.924 161.538 -28.022  1.00 92.17      BS2
ATOM  33074  O   GLN B  76     168.861 162.067 -28.348  1.00 92.17      BS2
ATOM  33075  N   ALA B  77     170.350 161.508 -26.762  1.00 67.98      BS2
ATOM  33076  CA  ALA B  77     169.557 162.114 -25.697  1.00 67.98      BS2
ATOM  33077  CB  ALA B  77     168.273 161.338 -25.518  1.00 26.38      BS2
ATOM  33078  C   ALA B  77     170.297 162.205 -24.366  1.00 67.98      BS2
ATOM  33079  O   ALA B  77     169.777 162.742 -23.386  1.00 67.98      BS2
ATOM  33080  N   GLN B  78     171.514 161.678 -24.336  1.00 68.28      BS2
ATOM  33081  CA  GLN B  78     172.321 161.703 -23.127  1.00 68.28      BS2
ATOM  33082  CB  GLN B  78     173.756 161.283 -23.471  1.00125.94      BS2
ATOM  33083  CG  GLN B  78     174.645 161.002 -22.275  1.00125.94      BS2
ATOM  33084  CD  GLN B  78     175.846 160.143 -22.636  1.00125.94      BS2
ATOM  33085  OE1 GLN B  78     176.583 160.446 -23.573  1.00125.94      BS2
ATOM  33086  NE2 GLN B  78     176.049 159.065 -21.888  1.00125.94      BS2
ATOM  33087  C   GLN B  78     172.295 163.094 -22.477  1.00 68.28      BS2
ATOM  33088  O   GLN B  78     172.391 163.222 -21.256  1.00 68.28      BS2
ATOM  33089  N   ASP B  79     172.144 164.135 -23.291  1.00 91.83      BS2
ATOM  33090  CA  ASP B  79     172.114 165.500 -22.777  1.00 91.83      BS2
ATOM  33091  CB  ASP B  79     172.773 166.449 -23.769  1.00145.20      BS2
ATOM  33092  CG  ASP B  79     174.240 166.164 -23.937  1.00145.20      BS2
ATOM  33093  OD1 ASP B  79     174.971 166.229 -22.926  1.00145.20      BS2
ATOM  33094  OD2 ASP B  79     174.660 165.867 -25.074  1.00145.20      BS2
ATOM  33095  C   ASP B  79     170.708 165.968 -22.480  1.00 91.83      BS2
ATOM  33096  O   ASP B  79     170.414 166.363 -21.354  1.00 91.83      BS2
ATOM  33097  N   ILE B  80     169.846 165.929 -23.495  1.00 75.76      BS2
ATOM  33098  CA  ILE B  80     168.446 166.335 -23.351  1.00 75.76      BS2
ATOM  33099  CB  ILE B  80     167.547 165.613 -24.373  1.00 76.61      BS2
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ATOM  33100  CG2 ILE B  80     166.095 166.037 -24.181  1.00 76.61      BS2
ATOM  33101  CG1 ILE B  80     168.031 165.906 -25.794  1.00 76.61      BS2
ATOM  33102  CD1 ILE B  80     167.469 164.955 -26.831  1.00 76.61      BS2
ATOM  33103  C   ILE B  80     167.957 165.962 -21.958  1.00 75.76      BS2
ATOM  33104  O   ILE B  80     167.205 166.708 -21.324  1.00 75.76      BS2
ATOM  33105  N   VAL B  81     168.393 164.793 -21.499  1.00 54.34      BS2
ATOM  33106  CA  VAL B  81     168.032 164.293 -20.186  1.00 54.34      BS2
ATOM  33107  CB  VAL B  81     168.572 162.856 -19.976  1.00 54.16      BS2
ATOM  33108  CG1 VAL B  81     168.481 162.462 -18.501  1.00 54.16      BS2
ATOM  33109  CG2 VAL B  81     167.776 161.878 -20.828  1.00 54.16      BS2
ATOM  33110  C   VAL B  81     168.575 165.215 -19.099  1.00 54.34      BS2
ATOM  33111  O   VAL B  81     167.810 165.895 -18.423  1.00 54.34      BS2
ATOM  33112  N   ARG B  82     169.891 165.248 -18.939  1.00 57.64      BS2
ATOM  33113  CA  ARG B  82     170.493 166.090 -17.916  1.00 57.64      BS2
ATOM  33114  CB  ARG B  82     171.958 166.362 -18.248  1.00131.99      BS2
ATOM  33115  CG  ARG B  82     172.787 166.739 -17.041  1.00131.99      BS2
ATOM  33116  CD  ARG B  82     174.218 167.037 -17.431  1.00131.99      BS2
ATOM  33117  NE  ARG B  82     175.084 167.135 -16.260  1.00131.99      BS2
ATOM  33118  CZ  ARG B  82     176.374 167.451 -16.306  1.00131.99      BS2
ATOM  33119  NH1 ARG B  82     176.956 167.704 -17.471  1.00131.99      BS2
ATOM  33120  NH2 ARG B  82     177.086 167.511 -15.187  1.00131.99      BS2
ATOM  33121  C   ARG B  82     169.730 167.410 -17.805  1.00 57.64      BS2
ATOM  33122  O   ARG B  82     169.217 167.746 -16.739  1.00 57.64      BS2
ATOM  33123  N   MET B  83     169.641 168.150 -18.908  1.00 87.03      BS2
ATOM  33124  CA  MET B  83     168.930 169.426 -18.917  1.00 87.03      BS2
ATOM  33125  CB  MET B  83     168.725 169.914 -20.349  1.00173.20      BS2
ATOM  33126  CG  MET B  83     169.995 170.374 -21.025  1.00173.20      BS2
ATOM  33127  SD  MET B  83     170.711 171.789 -20.187  1.00173.20      BS2
ATOM  33128  CE  MET B  83     170.102 173.136 -21.208  1.00173.20      BS2
ATOM  33129  C   MET B  83     167.576 169.304 -18.233  1.00 87.03      BS2
ATOM  33130  O   MET B  83     167.394 169.767 -17.109  1.00 87.03      BS2
ATOM  33131  N   GLU B  84     166.632 168.673 -18.922  1.00 58.70      BS2
ATOM  33132  CA  GLU B  84     165.286 168.482 -18.396  1.00 58.70      BS2
ATOM  33133  CB  GLU B  84     164.503 167.551 -19.319  1.00 90.44      BS2
ATOM  33134  CG  GLU B  84     164.239 168.156 -20.669  1.00 90.44      BS2
ATOM  33135  CD  GLU B  84     163.545 169.494 -20.550  1.00 90.44      BS2
ATOM  33136  OE1 GLU B  84     162.430 169.534 -19.992  1.00 90.44      BS2
ATOM  33137  OE2 GLU B  84     164.117 170.506 -21.005  1.00 90.44      BS2
ATOM  33138  C   GLU B  84     165.271 167.927 -16.976  1.00 58.70      BS2
ATOM  33139  O   GLU B  84     164.541 168.419 -16.118  1.00 58.70      BS2
ATOM  33140  N   ALA B  85     166.077 166.896 -16.739  1.00 53.14      BS2
ATOM  33141  CA  ALA B  85     166.165 166.263 -15.426  1.00 53.14      BS2
ATOM  33142  CB  ALA B  85     167.144 165.088 -15.475  1.00 34.07      BS2
ATOM  33143  C   ALA B  85     166.614 167.273 -14.376  1.00 53.14      BS2
ATOM  33144  O   ALA B  85     166.142 167.259 -13.239  1.00 53.14      BS2
ATOM  33145  N   GLU B  86     167.542 168.141 -14.767  1.00 70.18      BS2
ATOM  33146  CA  GLU B  86     168.052 169.160 -13.868  1.00 70.18      BS2
ATOM  33147  CB  GLU B  86     169.273 169.862 -14.471  1.00199.99      BS2
ATOM  33148  CG  GLU B  86     170.533 169.017 -14.545  1.00199.99      BS2
ATOM  33149  CD  GLU B  86     171.679 169.743 -15.229  1.00199.99      BS2
ATOM  33150  OE1 GLU B  86     171.541 170.093 -16.422  1.00199.99      BS2
ATOM  33151  OE2 GLU B  86     172.719 169.966 -14.575  1.00199.99      BS2
ATOM  33152  C   GLU B  86     166.955 170.177 -13.648  1.00 70.18      BS2
ATOM  33153  O   GLU B  86     166.786 170.681 -12.542  1.00 70.18      BS2
ATOM  33154  N   ARG B  87     166.203 170.463 -14.707  1.00 80.91      BS2
ATOM  33155  CA  ARG B  87     165.134 171.448 -14.639  1.00 80.91      BS2
ATOM  33156  CB  ARG B  87     164.439 171.582 -15.992  1.00 80.36      BS2
ATOM  33157  CG  ARG B  87     164.070 173.016 -16.291  1.00 80.36      BS2
ATOM  33158  CD  ARG B  87     162.625 173.152 -16.673  1.00 80.36      BS2
ATOM  33159  NE  ARG B  87     162.373 172.589 -17.989  1.00 80.36      BS2
ATOM  33160  CZ  ARG B  87     161.205 172.669 -18.616  1.00 80.36      BS2
ATOM  33161  NH1 ARG B  87     160.185 173.290 -18.035  1.00 80.36      BS2
ATOM  33162  NH2 ARG B  87     161.060 172.141 -19.827  1.00 80.36      BS2
ATOM  33163  C   ARG B  87     164.112 171.150 -13.546  1.00 80.91      BS2
ATOM  33164  O   ARG B  87     163.527 172.070 -12.973  1.00 80.91      BS2
ATOM  33165  N   ALA B  88     163.883 169.871 -13.267  1.00 86.70      BS2
ATOM  33166  CA  ALA B  88     162.967 169.488 -12.199  1.00 86.70      BS2
ATOM  33167  CB  ALA B  88     162.109 168.306 -12.613  1.00 65.70      BS2
ATOM  33168  C   ALA B  88     163.896 169.090 -11.070  1.00 86.70      BS2
ATOM  33169  O   ALA B  88     165.079 168.840 -11.302  1.00 86.70      BS2
ATOM  33170  N   GLY B  89     163.391 169.035  -9.849  1.00 75.42      BS2
ATOM  33171  CA  GLY B  89     164.264 168.655  -8.756  1.00 75.42      BS2
ATOM  33172  C   GLY B  89     164.600 167.185  -8.881  1.00 75.42      BS2
ATOM  33173  O   GLY B  89     164.930 166.528  -7.894  1.00 75.42      BS2
ATOM  33174  N   MET B  90     164.530 166.677 -10.109  1.00 52.90      BS2
ATOM  33175  CA  MET B  90     164.777 165.267 -10.390  1.00 52.90      BS2
ATOM  33176  CB  MET B  90     163.869 164.829 -11.541  1.00 81.19      BS2
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ATOM  33177  CG  MET B  90     162.400 165.173 -11.321  1.00 81.19      BS2
ATOM  33178  SD  MET B  90     161.805 164.632  -9.697  1.00 81.19      BS2
ATOM  33179  CE  MET B  90     160.584 165.883  -9.346  1.00 81.19      BS2
ATOM  33180  C   MET B  90     166.225 164.860 -10.690  1.00 52.90      BS2
ATOM  33181  O   MET B  90     167.037 165.681 -11.124  1.00 52.90      BS2
ATOM  33182  N   PRO B  91     166.562 163.576 -10.428  1.00 98.70      BS2
ATOM  33183  CD  PRO B  91     165.770 162.717  -9.536  1.00 69.15      BS2
ATOM  33184  CA  PRO B  91     167.880 162.964 -10.642  1.00 98.70      BS2
ATOM  33185  CB  PRO B  91     167.988 161.929  -9.515  1.00 69.15      BS2
ATOM  33186  CG  PRO B  91     166.829 162.235  -8.589  1.00 69.15      BS2
ATOM  33187  C   PRO B  91     167.910 162.286 -12.006  1.00 98.70      BS2
ATOM  33188  O   PRO B  91     166.905 162.282 -12.724  1.00 98.70      BS2
ATOM  33189  N   TYR B  92     169.045 161.690 -12.356  1.00 56.32      BS2
ATOM  33190  CA  TYR B  92     169.151 161.034 -13.654  1.00 56.32      BS2
ATOM  33191  CB  TYR B  92     169.293 162.096 -14.753  1.00 81.73      BS2
ATOM  33192  CG  TYR B  92     170.475 163.012 -14.524  1.00 81.73      BS2
ATOM  33193  CD1 TYR B  92     171.775 162.514 -14.519  1.00 81.73      BS2
ATOM  33194  CE1 TYR B  92     172.859 163.328 -14.235  1.00 81.73      BS2
ATOM  33195  CD2 TYR B  92     170.295 164.359 -14.246  1.00 81.73      BS2
ATOM  33196  CE2 TYR B  92     171.382 165.183 -13.958  1.00 81.73      BS2
ATOM  33197  CZ  TYR B  92     172.657 164.655 -13.951  1.00 81.73      BS2
ATOM  33198  OH  TYR B  92     173.728 165.443 -13.627  1.00 81.73      BS2
ATOM  33199  C   TYR B  92     170.318 160.058 -13.761  1.00 56.32      BS2
ATOM  33200  O   TYR B  92     171.088 159.870 -12.814  1.00 56.32      BS2
ATOM  33201  N   VAL B  93     170.423 159.443 -14.937  1.00 74.64      BS2
ATOM  33202  CA  VAL B  93     171.495 158.513 -15.268  1.00 74.64      BS2
ATOM  33203  CB  VAL B  93     171.118 157.044 -14.958  1.00 39.12      BS2
ATOM  33204  CG1 VAL B  93     172.204 156.108 -15.488  1.00 39.12      BS2
ATOM  33205  CG2 VAL B  93     170.966 156.845 -13.452  1.00 39.12      BS2
ATOM  33206  C   VAL B  93     171.772 158.665 -16.768  1.00 74.64      BS2
ATOM  33207  O   VAL B  93     170.868 158.492 -17.601  1.00 74.64      BS2
ATOM  33208  N   ASN B  94     173.020 159.012 -17.095  1.00 70.40      BS2
ATOM  33209  CA  ASN B  94     173.454 159.205 -18.479  1.00 70.40      BS2
ATOM  33210  CB  ASN B  94     173.930 160.626 -18.699  1.00 63.45      BS2
ATOM  33211  CG  ASN B  94     172.811 161.594 -18.723  1.00 63.45      BS2
ATOM  33212  OD1 ASN B  94     171.822 161.387 -19.424  1.00 63.45      BS2
ATOM  33213  ND2 ASN B  94     172.944 162.670 -17.961  1.00 63.45      BS2
ATOM  33214  C   ASN B  94     174.584 158.296 -18.871  1.00 70.40      BS2
ATOM  33215  O   ASN B  94     174.504 157.588 -19.867  1.00 70.40      BS2
ATOM  33216  N   GLN B  95     175.655 158.353 -18.096  1.00114.59      BS2
ATOM  33217  CA  GLN B  95     176.819 157.533 -18.359  1.00114.59      BS2
ATOM  33218  CB  GLN B  95     177.718 157.521 -17.126  1.00161.94      BS2
ATOM  33219  CG  GLN B  95     178.102 158.916 -16.643  1.00161.94      BS2
ATOM  33220  CD  GLN B  95     179.006 159.664 -17.615  1.00161.94      BS2
ATOM  33221  OE1 GLN B  95     178.657 159.866 -18.780  1.00161.94      BS2
ATOM  33222  NE2 GLN B  95     180.175 160.082 -17.133  1.00161.94      BS2
ATOM  33223  C   GLN B  95     176.344 156.125 -18.695  1.00114.59      BS2
ATOM  33224  O   GLN B  95     176.112 155.795 -19.862  1.00114.59      BS2
ATOM  33225  N   ARG B  96     176.197 155.297 -17.669  1.00 95.00      BS2
ATOM  33226  CA  ARG B  96     175.727 153.939 -17.863  1.00 95.00      BS2
ATOM  33227  CB  ARG B  96     176.898 152.961 -17.979  1.00201.30      BS2
ATOM  33228  CG  ARG B  96     176.464 151.559 -18.372  1.00201.30      BS2
ATOM  33229  CD  ARG B  96     175.611 151.596 -19.638  1.00201.30      BS2
ATOM  33230  NE  ARG B  96     175.154 150.271 -20.047  1.00201.30      BS2
ATOM  33231  CZ  ARG B  96     174.399 150.041 -21.117  1.00201.30      BS2
ATOM  33232  NH1 ARG B  96     174.015 151.050 -21.885  1.00201.30      BS2
ATOM  33233  NH2 ARG B  96     174.033 148.803 -21.423  1.00201.30      BS2
ATOM  33234  C   ARG B  96     174.884 153.597 -16.660  1.00 95.00      BS2
ATOM  33235  O   ARG B  96     175.165 154.051 -15.554  1.00 95.00      BS2
ATOM  33236  N   TRP B  97     173.847 152.800 -16.865  1.00 49.95      BS2
ATOM  33237  CA  TRP B  97     172.995 152.452 -15.749  1.00 49.95      BS2
ATOM  33238  CB  TRP B  97     171.595 152.084 -16.238  1.00 80.33      BS2
ATOM  33239  CG  TRP B  97     170.557 152.325 -15.184  1.00 80.33      BS2
ATOM  33240  CD2 TRP B  97     169.859 151.337 -14.444  1.00 80.33      BS2
ATOM  33241  CE2 TRP B  97     169.002 152.015 -13.542  1.00 80.33      BS2
ATOM  33242  CE3 TRP B  97     169.871 149.941 -14.451  1.00 80.33      BS2
ATOM  33243  CD1 TRP B  97     170.111 153.538 -14.719  1.00 80.33      BS2
ATOM  33244  NE1 TRP B  97     169.176 153.358 -13.731  1.00 80.33      BS2
ATOM  33245  CZ2 TRP B  97     168.168 151.344 -12.662  1.00 80.33      BS2
ATOM  33246  CZ3 TRP B  97     169.041 149.271 -13.579  1.00 80.33      BS2
ATOM  33247  CH2 TRP B  97     168.197 149.974 -12.692  1.00 80.33      BS2
ATOM  33248  C   TRP B  97     173.534 151.325 -14.890  1.00 49.95      BS2
ATOM  33249  O   TRP B  97     173.079 150.202 -15.020  1.00 49.95      BS2
ATOM  33250  N   LEU B  98     174.486 151.633 -14.009  1.00 29.87      BS2
ATOM  33251  CA  LEU B  98     175.078 150.639 -13.100  1.00 29.87      BS2
ATOM  33252  CB  LEU B  98     175.662 151.329 -11.868  1.00 42.86      BS2
ATOM  33253  CG  LEU B  98     176.687 152.438 -12.118  1.00 42.86      BS2
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ATOM  33254  CD1 LEU B  98     177.110 153.041 -10.790  1.00 42.86      BS2
ATOM  33255  CD2 LEU B  98     177.890 151.884 -12.843  1.00 42.86      BS2
ATOM  33256  C   LEU B  98     174.126 149.519 -12.631  1.00 29.87      BS2
ATOM  33257  O   LEU B  98     172.940 149.745 -12.345  1.00 29.87      BS2
ATOM  33258  N   GLY B  99     174.654 148.306 -12.535  1.00 50.66      BS2
ATOM  33259  CA  GLY B  99     173.819 147.191 -12.140  1.00 50.66      BS2
ATOM  33260  C   GLY B  99     173.297 147.238 -10.722  1.00 50.66      BS2
ATOM  33261  O   GLY B  99     174.050 147.002  -9.768  1.00 50.66      BS2
ATOM  33262  N   GLY B 100     172.007 147.530 -10.575  1.00 48.01      BS2
ATOM  33263  CA  GLY B 100     171.415 147.583  -9.245  1.00 48.01      BS2
ATOM  33264  C   GLY B 100     171.175 148.978  -8.692  1.00 48.01      BS2
ATOM  33265  O   GLY B 100     171.085 149.170  -7.478  1.00 48.01      BS2
ATOM  33266  N   MET B 101     171.094 149.957  -9.586  1.00 69.93      BS2
ATOM  33267  CA  MET B 101     170.837 151.320  -9.172  1.00 69.93      BS2
ATOM  33268  CB  MET B 101     170.463 152.181 -10.383  1.00 60.76      BS2
ATOM  33269  CG  MET B 101     171.552 152.296 -11.444  1.00 60.76      BS2
ATOM  33270  SD  MET B 101     172.417 153.896 -11.476  1.00 60.76      BS2
ATOM  33271  CE  MET B 101     173.620 153.635 -10.205  1.00 60.76      BS2
ATOM  33272  C   MET B 101     169.660 151.215  -8.214  1.00 69.93      BS2
ATOM  33273  O   MET B 101     169.756 151.608  -7.055  1.00 69.93      BS2
ATOM  33274  N   LEU B 102     168.562 150.647  -8.707  1.00 21.90      BS2
ATOM  33275  CA  LEU B 102     167.345 150.466  -7.921  1.00 21.90      BS2
ATOM  33276  CB  LEU B 102     166.155 150.304  -8.865  1.00 21.85      BS2
ATOM  33277  CG  LEU B 102     165.460 151.572  -9.377  1.00 21.85      BS2
ATOM  33278  CD1 LEU B 102     166.485 152.660  -9.643  1.00 21.85      BS2
ATOM  33279  CD2 LEU B 102     164.668 151.257 -10.633  1.00 21.85      BS2
ATOM  33280  C   LEU B 102     167.460 149.229  -7.034  1.00 21.90      BS2
ATOM  33281  O   LEU B 102     167.521 149.306  -5.797  1.00 21.90      BS2
ATOM  33282  N   THR B 103     167.488 148.085  -7.702  1.00 32.43      BS2
ATOM  33283  CA  THR B 103     167.588 146.785  -7.068  1.00 32.43      BS2
ATOM  33284  CB  THR B 103     167.816 145.718  -8.130  1.00 66.88      BS2
ATOM  33285  OG1 THR B 103     166.595 145.530  -8.855  1.00 66.88      BS2
ATOM  33286  CG2 THR B 103     168.247 144.415  -7.507  1.00 66.88      BS2
ATOM  33287  C   THR B 103     168.666 146.704  -6.009  1.00 32.43      BS2
ATOM  33288  O   THR B 103     168.553 145.931  -5.070  1.00 32.43      BS2
ATOM  33289  N   ASN B 104     169.733 147.469  -6.150  1.00 77.21      BS2
ATOM  33290  CA  ASN B 104     170.728 147.416  -5.106  1.00 77.21      BS2
ATOM  33291  CB  ASN B 104     172.027 146.803  -5.579  1.00 45.26      BS2
ATOM  33292  CG  ASN B 104     172.807 146.222  -4.434  1.00 45.26      BS2
ATOM  33293  OD1 ASN B 104     172.555 146.568  -3.282  1.00 45.26      BS2
ATOM  33294  ND2 ASN B 104     173.754 145.339  -4.730  1.00 45.26      BS2
ATOM  33295  C   ASN B 104     170.994 148.798  -4.572  1.00 77.21      BS2
ATOM  33296  O   ASN B 104     172.080 149.084  -4.064  1.00 77.21      BS2
ATOM  33297  N   PHE B 105     169.978 149.650  -4.690  1.00 75.12      BS2
ATOM  33298  CA  PHE B 105     170.038 151.026  -4.223  1.00 75.12      BS2
ATOM  33299  CB  PHE B 105     168.620 151.547  -3.995  1.00 53.71      BS2
ATOM  33300  CG  PHE B 105     168.555 153.018  -3.716  1.00 53.71      BS2
ATOM  33301  CD1 PHE B 105     167.933 153.878  -4.614  1.00 53.71      BS2
ATOM  33302  CD2 PHE B 105     169.127 153.550  -2.563  1.00 53.71      BS2
ATOM  33303  CE1 PHE B 105     167.882 155.246  -4.368  1.00 53.71      BS2
ATOM  33304  CE2 PHE B 105     169.084 154.914  -2.308  1.00 53.71      BS2
ATOM  33305  CZ  PHE B 105     168.461 155.762  -3.211  1.00 53.71      BS2
ATOM  33306  C   PHE B 105     170.828 151.102  -2.924  1.00 75.12      BS2
ATOM  33307  O   PHE B 105     171.868 151.752  -2.852  1.00 75.12      BS2
ATOM  33308  N   LYS B 106     170.325 150.422  -1.903  1.00 52.01      BS2
ATOM  33309  CA  LYS B 106     170.971 150.407  -0.605  1.00 52.01      BS2
ATOM  33310  CB  LYS B 106     170.485 149.209   0.218  1.00201.30      BS2
ATOM  33311  CG  LYS B 106     171.417 148.824   1.371  1.00201.30      BS2
ATOM  33312  CD  LYS B 106     170.734 148.876   2.734  1.00201.30      BS2
ATOM  33313  CE  LYS B 106     170.435 150.303   3.173  1.00201.30      BS2
ATOM  33314  NZ  LYS B 106     169.858 150.349   4.548  1.00201.30      BS2
ATOM  33315  C   LYS B 106     172.487 150.373  -0.695  1.00 52.01      BS2
ATOM  33316  O   LYS B 106     173.169 150.975   0.133  1.00 52.01      BS2
ATOM  33317  N   THR B 107     173.022 149.676  -1.694  1.00 58.04      BS2
ATOM  33318  CA  THR B 107     174.472 149.571  -1.826  1.00 58.04      BS2
ATOM  33319  CB  THR B 107     174.894 148.182  -2.352  1.00 70.94      BS2
ATOM  33320  OG1 THR B 107     174.752 147.208  -1.309  1.00 70.94      BS2
ATOM  33321  CG2 THR B 107     176.335 148.203  -2.806  1.00 70.94      BS2
ATOM  33322  C   THR B 107     175.120 150.646  -2.679  1.00 58.04      BS2
ATOM  33323  O   THR B 107     176.107 151.244  -2.257  1.00 58.04      BS2
ATOM  33324  N   ILE B 108     174.591 150.901  -3.871  1.00 50.63      BS2
ATOM  33325  CA  ILE B 108     175.190 151.933  -4.701  1.00 50.63      BS2
ATOM  33326  CB  ILE B 108     174.406 152.209  -5.984  1.00 52.49      BS2
ATOM  33327  CG2 ILE B 108     175.014 153.400  -6.714  1.00 52.49      BS2
ATOM  33328  CG1 ILE B 108     174.452 150.991  -6.898  1.00 52.49      BS2
ATOM  33329  CD1 ILE B 108     173.702 151.190  -8.208  1.00 52.49      BS2
ATOM  33330  C   ILE B 108     175.225 153.220  -3.910  1.00 50.63      BS2
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ATOM  33331  O   ILE B 108     176.049 154.085  -4.172  1.00 50.63       BS2
ATOM  33332  N   SER B 109     174.328 153.355  -2.940  1.00 75.12       BS2
ATOM  33333  CA  SER B 109     174.303 154.558  -2.120  1.00 75.12       BS2
ATOM  33334  CB  SER B 109     173.311 154.400  -0.966  1.00178.75       BS2
ATOM  33335  OG  SER B 109     173.746 153.405  -0.056  1.00178.75       BS2
ATOM  33336  C   SER B 109     175.703 154.829  -1.563  1.00 75.12       BS2
ATOM  33337  O   SER B 109     176.195 155.955  -1.634  1.00 75.12       BS2
ATOM  33338  N   GLN B 110     176.342 153.793  -1.018  1.00 49.05       BS2
ATOM  33339  CA  GLN B 110     177.683 153.925  -0.455  1.00 49.05       BS2
ATOM  33340  CB  GLN B 110     178.275 152.550  -0.152  1.00148.81       BS2
ATOM  33341  CG  GLN B 110     177.531 151.786   0.922  1.00148.81       BS2
ATOM  33342  CD  GLN B 110     178.287 150.557   1.378  1.00148.81       BS2
ATOM  33343  OE1 GLN B 110     178.596 149.674   0.579  1.00148.81       BS2
ATOM  33344  NE2 GLN B 110     178.592 150.494   2.670  1.00148.81       BS2
ATOM  33345  C   GLN B 110     178.611 154.680  -1.400  1.00 49.05       BS2
ATOM  33346  O   GLN B 110     179.562 155.330  -0.963  1.00 49.05       BS2
ATOM  33347  N   ARG B 111     178.330 154.587  -2.697  1.00 77.56       BS2
ATOM  33348  CA  ARG B 111     179.129 155.270  -3.706  1.00 77.56       BS2
ATOM  33349  CB  ARG B 111     178.847 154.707  -5.098  1.00 67.00       BS2
ATOM  33350  CG  ARG B 111     179.476 153.355  -5.369  1.00 67.00       BS2
ATOM  33351  CD  ARG B 111     180.990 153.410  -5.244  1.00 67.00       BS2
ATOM  33352  NE  ARG B 111     181.423 153.240  -3.862  1.00 67.00       BS2
ATOM  33353  CZ  ARG B 111     182.693 153.161  -3.483  1.00 67.00       BS2
ATOM  33354  NH1 ARG B 111     183.660 153.244  -4.389  1.00 67.00       BS2
ATOM  33355  NH2 ARG B 111     182.993 152.981  -2.203  1.00 67.00       BS2
ATOM  33356  C   ARG B 111     178.847 156.758  -3.706  1.00 77.56       BS2
ATOM  33357  O   ARG B 111     179.715 157.554  -4.048  1.00 77.56       BS2
ATOM  33358  N   VAL B 112     177.628 157.138  -3.339  1.00 82.61       BS2
ATOM  33359  CA  VAL B 112     177.294 158.550  -3.283  1.00 82.61       BS2
ATOM  33360  CB  VAL B 112     175.782 158.789  -3.191  1.00 43.41       BS2
ATOM  33361  CG1 VAL B 112     175.471 160.228  -3.535  1.00 43.41       BS2
ATOM  33362  CG2 VAL B 112     175.053 157.865  -4.138  1.00 43.41       BS2
ATOM  33363  C   VAL B 112     177.962 159.101  -2.030  1.00 82.61       BS2
ATOM  33364  O   VAL B 112     178.430 160.238  -2.017  1.00 82.61       BS2
ATOM  33365  N   HIS B 113     178.012 158.290  -0.975  1.00 65.98       BS2
ATOM  33366  CA  HIS B 113     178.660 158.716   0.257  1.00 65.98       BS2
ATOM  33367  CB  HIS B 113     178.731 157.571   1.270  1.00135.39       BS2
ATOM  33368  CG  HIS B 113     177.421 157.262   1.924  1.00135.39       BS2
ATOM  33369  CD2 HIS B 113     176.725 156.106   2.029  1.00135.39       BS2
ATOM  33370  ND1 HIS B 113     176.678 158.217   2.585  1.00135.39       BS2
ATOM  33371  CE1 HIS B 113     175.581 157.662   3.068  1.00135.39       BS2
ATOM  33372  NE2 HIS B 113     175.585 156.381   2.744  1.00135.39       BS2
ATOM  33373  C   HIS B 113     180.062 159.151  -0.119  1.00 65.98       BS2
ATOM  33374  O   HIS B 113     180.384 160.335  -0.065  1.00 65.98       BS2
ATOM  33375  N   ARG B 114     180.883 158.186  -0.520  1.00 54.09       BS2
ATOM  33376  CA  ARG B 114     182.260 158.456  -0.922  1.00 54.09       BS2
ATOM  33377  CB  ARG B 114     182.810 157.300  -1.756  1.00112.91       BS2
ATOM  33378  CG  ARG B 114     183.827 156.433  -1.033  1.00112.91       BS2
ATOM  33379  CD  ARG B 114     185.122 157.184  -0.770  1.00112.91       BS2
ATOM  33380  NE  ARG B 114     186.155 156.287  -0.263  1.00112.91       BS2
ATOM  33381  CZ  ARG B 114     187.395 156.662   0.029  1.00112.91       BS2
ATOM  33382  NH1 ARG B 114     187.766 157.924  -0.133  1.00112.91       BS2
ATOM  33383  NH2 ARG B 114     188.266 155.769   0.479  1.00112.91       BS2
ATOM  33384  C   ARG B 114     182.375 159.739  -1.722  1.00 54.09       BS2
ATOM  33385  O   ARG B 114     183.319 160.498  -1.546  1.00 54.09       BS2
ATOM  33386  N   LEU B 115     181.424 159.976  -2.615  1.00 46.64       BS2
ATOM  33387  CA  LEU B 115     181.455 161.191  -3.403  1.00 46.64       BS2
ATOM  33388  CB  LEU B 115     180.221 161.292  -4.305  1.00 29.50       BS2
ATOM  33389  CG  LEU B 115     180.193 162.612  -5.082  1.00 29.50       BS2
ATOM  33390  CD1 LEU B 115     181.499 162.729  -5.823  1.00 29.50       BS2
ATOM  33391  CD2 LEU B 115     179.042 162.693  -6.058  1.00 29.50       BS2
ATOM  33392  C   LEU B 115     181.474 162.358  -2.425  1.00 46.64       BS2
ATOM  33393  O   LEU B 115     182.509 163.000  -2.205  1.00 46.64       BS2
ATOM  33394  N   GLU B 116     180.317 162.618  -1.829  1.00 69.26       BS2
ATOM  33395  CA  GLU B 116     180.177 163.692  -0.866  1.00 69.26       BS2
ATOM  33396  CB  GLU B 116     178.863 163.522  -0.107  1.00 90.80       BS2
ATOM  33397  CG  GLU B 116     177.675 163.279  -1.036  1.00 90.80       BS2
ATOM  33398  CD  GLU B 116     176.351 163.138  -0.302  1.00 90.80       BS2
ATOM  33399  OE1 GLU B 116     176.304 162.395   0.704  1.00 90.80       BS2
ATOM  33400  OE2 GLU B 116     175.355 163.761  -0.742  1.00 90.80       BS2
ATOM  33401  C   GLU B 116     181.356 163.643   0.094  1.00 69.26       BS2
ATOM  33402  O   GLU B 116     181.842 164.674   0.553  1.00 69.26       BS2
ATOM  33403  N   GLU B 117     181.829 162.434   0.367  1.00 72.78       BS2
ATOM  33404  CA  GLU B 117     182.946 162.227   1.276  1.00 72.78       BS2
ATOM  33405  CB  GLU B 117     183.068 160.742   1.615  1.00150.43       BS2
ATOM  33406  CG  GLU B 117     184.159 160.420   2.612  1.00150.43       BS2
ATOM  33407  CD  GLU B 117     184.109 158.977   3.072  1.00150.43       BS2
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ATOM  33408  OE1 GLU B 117     184.091 158.078   2.207  1.00150.43      BS2
ATOM  33409  OE2 GLU B 117     184.090 158.741   4.298  1.00150.43      BS2
ATOM  33410  C   GLU B 117     184.272 162.753   0.737  1.00 72.78      BS2
ATOM  33411  O   GLU B 117     185.089 163.259   1.500  1.00 72.78      BS2
ATOM  33412  N   LEU B 118     184.504 162.638  -0.567  1.00 94.64      BS2
ATOM  33413  CA  LEU B 118     185.756 163.133  -1.129  1.00 94.64      BS2
ATOM  33414  CB  LEU B 118     186.168 162.333  -2.372  1.00 39.38      BS2
ATOM  33415  CG  LEU B 118     186.451 160.842  -2.137  1.00 39.38      BS2
ATOM  33416  CD1 LEU B 118     187.018 160.229  -3.379  1.00 39.38      BS2
ATOM  33417  CD2 LEU B 118     187.436 160.662  -0.996  1.00 39.38      BS2
ATOM  33418  C   LEU B 118     185.600 164.599  -1.474  1.00 94.64      BS2
ATOM  33419  O   LEU B 118     186.558 165.368  -1.405  1.00 94.64      BS2
ATOM  33420  N   GLU B 119     184.386 164.991  -1.839  1.00 65.06      BS2
ATOM  33421  CA  GLU B 119     184.133 166.386  -2.157  1.00 65.06      BS2
ATOM  33422  CB  GLU B 119     182.677 166.592  -2.561  1.00126.79      BS2
ATOM  33423  CG  GLU B 119     182.319 165.980  -3.892  1.00126.79      BS2
ATOM  33424  CD  GLU B 119     180.839 166.073  -4.181  1.00126.79      BS2
ATOM  33425  OE1 GLU B 119     180.055 165.518  -3.385  1.00126.79      BS2
ATOM  33426  OE2 GLU B 119     180.460 166.696  -5.197  1.00126.79      BS2
ATOM  33427  C   GLU B 119     184.432 167.189  -0.902  1.00 65.06      BS2
ATOM  33428  O   GLU B 119     184.504 168.415  -0.937  1.00 65.06      BS2
ATOM  33429  N   ALA B 120     184.594 166.477   0.209  1.00128.81      BS2
ATOM  33430  CA  ALA B 120     184.900 167.098   1.489  1.00128.81      BS2
ATOM  33431  CB  ALA B 120     184.657 166.114   2.621  1.00 52.97      BS2
ATOM  33432  C   ALA B 120     186.358 167.519   1.484  1.00128.81      BS2
ATOM  33433  O   ALA B 120     186.679 168.705   1.559  1.00128.81      BS2
ATOM  33434  N   LEU B 121     187.239 166.530   1.395  1.00103.63      BS2
ATOM  33435  CA  LEU B 121     188.665 166.790   1.382  1.00103.63      BS2
ATOM  33436  CB  LEU B 121     189.434 165.511   1.056  1.00163.81      BS2
ATOM  33437  CG  LEU B 121     189.179 164.343   2.012  1.00163.81      BS2
ATOM  33438  CD1 LEU B 121     190.066 163.168   1.634  1.00163.81      BS2
ATOM  33439  CD2 LEU B 121     189.458 164.777   3.442  1.00163.81      BS2
ATOM  33440  C   LEU B 121     188.996 167.869   0.368  1.00103.63      BS2
ATOM  33441  O   LEU B 121     189.214 169.020   0.736  1.00103.63      BS2
ATOM  33442  N   PHE B 122     189.011 167.505  -0.910  1.00105.02      BS2
ATOM  33443  CA  PHE B 122     189.342 168.464  -1.957  1.00105.02      BS2
ATOM  33444  CB  PHE B 122     189.404 167.766  -3.320  1.00 94.56      BS2
ATOM  33445  CG  PHE B 122     190.326 166.578  -3.350  1.00 94.56      BS2
ATOM  33446  CD1 PHE B 122     191.483 166.558  -2.575  1.00 94.56      BS2
ATOM  33447  CD2 PHE B 122     190.037 165.478  -4.145  1.00 94.56      BS2
ATOM  33448  CE1 PHE B 122     192.337 165.460  -2.591  1.00 94.56      BS2
ATOM  33449  CE2 PHE B 122     190.886 164.373  -4.169  1.00 94.56      BS2
ATOM  33450  CZ  PHE B 122     192.037 164.364  -3.390  1.00 94.56      BS2
ATOM  33451  C   PHE B 122     188.390 169.654  -2.017  1.00105.02      BS2
ATOM  33452  O   PHE B 122     187.476 169.701  -2.843  1.00105.02      BS2
ATOM  33453  N   ALA B 123     188.639 170.617  -1.133  1.00192.89      BS2
ATOM  33454  CA  ALA B 123     187.861 171.849  -1.011  1.00192.89      BS2
ATOM  33455  CB  ALA B 123     186.372 171.546  -1.054  1.00123.94      BS2
ATOM  33456  C   ALA B 123     188.233 172.457   0.336  1.00192.89      BS2
ATOM  33457  O   ALA B 123     187.838 173.577   0.669  1.00192.89      BS2
ATOM  33458  N   SER B 124     189.007 171.690   1.097  1.00124.36      BS2
ATOM  33459  CA  SER B 124     189.474 172.082   2.420  1.00124.36      BS2
ATOM  33460  CB  SER B 124     188.793 171.207   3.475  1.00149.05      BS2
ATOM  33461  OG  SER B 124     189.084 169.836   3.260  1.00149.05      BS2
ATOM  33462  C   SER B 124     190.989 171.882   2.481  1.00124.36      BS2
ATOM  33463  O   SER B 124     191.590 171.389   1.530  1.00124.36      BS2
ATOM  33464  N   PRO B 125     191.630 172.265   3.597  1.00189.63      BS2
ATOM  33465  CD  PRO B 125     191.121 172.831   4.857  1.00147.61      BS2
ATOM  33466  CA  PRO B 125     193.081 172.073   3.667  1.00189.63      BS2
ATOM  33467  CB  PRO B 125     193.444 172.690   5.015  1.00147.61      BS2
ATOM  33468  CG  PRO B 125     192.213 172.457   5.831  1.00147.61      BS2
ATOM  33469  C   PRO B 125     193.436 170.592   3.588  1.00189.63      BS2
ATOM  33470  O   PRO B 125     194.591 170.229   3.366  1.00189.63      BS2
ATOM  33471  N   GLU B 126     192.430 169.742   3.773  1.00191.19      BS2
ATOM  33472  CA  GLU B 126     192.623 168.300   3.716  1.00191.19      BS2
ATOM  33473  CB  GLU B 126     191.296 167.568   3.946  1.00198.20      BS2
ATOM  33474  CG  GLU B 126     190.876 167.433   5.404  1.00198.20      BS2
ATOM  33475  CD  GLU B 126     190.540 168.759   6.053  1.00198.20      BS2
ATOM  33476  OE1 GLU B 126     191.445 169.608   6.184  1.00198.20      BS2
ATOM  33477  OE2 GLU B 126     189.365 168.948   6.436  1.00198.20      BS2
ATOM  33478  C   GLU B 126     193.199 167.878   2.370  1.00191.19      BS2
ATOM  33479  O   GLU B 126     193.777 166.798   2.249  1.00191.19      BS2
ATOM  33480  N   ILE B 127     193.036 168.730   1.361  1.00173.61      BS2
ATOM  33481  CA  ILE B 127     193.541 168.431   0.026  1.00173.61      BS2
ATOM  33482  CB  ILE B 127     193.509 169.676  -0.893  1.00153.16      BS2
ATOM  33483  CG2 ILE B 127     193.944 169.290  -2.304  1.00153.16      BS2
ATOM  33484  CG1 ILE B 127     192.099 170.261  -0.945  1.00153.16      BS2
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ATOM  33485  CD1 ILE B 127     191.993 171.528  -1.775  1.00153.16       BS2
ATOM  33486  C   ILE B 127     194.983 167.944   0.106  1.00173.61       BS2
ATOM  33487  O   ILE B 127     195.294 166.810  -0.266  1.00173.61       BS2
ATOM  33488  N   GLU B 128     195.855 168.817   0.603  1.00201.30       BS2
ATOM  33489  CA  GLU B 128     197.275 168.516   0.736  1.00201.30       BS2
ATOM  33490  CB  GLU B 128     198.073 169.821   0.822  1.00146.37       BS2
ATOM  33491  CG  GLU B 128     198.054 170.670  -0.452  1.00146.37       BS2
ATOM  33492  CD  GLU B 128     196.654 171.079  -0.888  1.00146.37       BS2
ATOM  33493  OE1 GLU B 128     195.916 171.674  -0.073  1.00146.37       BS2
ATOM  33494  OE2 GLU B 128     196.298 170.808  -2.053  1.00146.37       BS2
ATOM  33495  C   GLU B 128     197.585 167.640   1.947  1.00201.30       BS2
ATOM  33496  O   GLU B 128     198.062 168.123   2.975  1.00201.30       BS2
ATOM  33497  N   GLU B 129     197.309 166.347   1.814  1.00201.30       BS2
ATOM  33498  CA  GLU B 129     197.562 165.383   2.880  1.00201.30       BS2
ATOM  33499  CB  GLU B 129     196.295 165.163   3.716  1.00201.30       BS2
ATOM  33500  CG  GLU B 129     195.771 166.413   4.419  1.00201.30       BS2
ATOM  33501  CD  GLU B 129     194.568 166.128   5.306  1.00201.30       BS2
ATOM  33502  OE1 GLU B 129     193.565 165.583   4.798  1.00201.30       BS2
ATOM  33503  OE2 GLU B 129     194.623 166.451   6.512  1.00201.30       BS2
ATOM  33504  C   GLU B 129     198.006 164.062   2.256  1.00201.30       BS2
ATOM  33505  O   GLU B 129     197.454 163.631   1.241  1.00201.30       BS2
ATOM  33506  N   ARG B 130     199.006 163.426   2.862  1.00143.43       BS2
ATOM  33507  CA  ARG B 130     199.531 162.156   2.363  1.00143.43       BS2
ATOM  33508  CB  ARG B 130     198.405 161.115   2.280  1.00201.30       BS2
ATOM  33509  CG  ARG B 130     198.191 160.328   3.574  1.00201.30       BS2
ATOM  33510  CD  ARG B 130     199.439 159.519   3.925  1.00201.30       BS2
ATOM  33511  NE  ARG B 130     199.271 158.688   5.114  1.00201.30       BS2
ATOM  33512  CZ  ARG B 130     200.203 157.863   5.581  1.00201.30       BS2
ATOM  33513  NH1 ARG B 130     201.371 157.758   4.961  1.00201.30       BS2
ATOM  33514  NH2 ARG B 130     199.970 157.141   6.667  1.00201.30       BS2
ATOM  33515  C   ARG B 130     200.214 162.324   1.002  1.00143.43       BS2
ATOM  33516  O   ARG B 130     200.034 163.343   0.332  1.00143.43       BS2
ATOM  33517  N   PRO B 131     200.998 161.319   0.571  1.00148.59       BS2
ATOM  33518  CD  PRO B 131     201.011 159.929   1.053  1.00160.81       BS2
ATOM  33519  CA  PRO B 131     201.692 161.407  -0.716  1.00148.59       BS2
ATOM  33520  CB  PRO B 131     202.044 159.948  -1.029  1.00160.81       BS2
ATOM  33521  CG  PRO B 131     201.042 159.165  -0.240  1.00160.81       BS2
ATOM  33522  C   PRO B 131     200.902 162.071  -1.833  1.00148.59       BS2
ATOM  33523  O   PRO B 131     199.709 161.821  -2.010  1.00148.59       BS2
ATOM  33524  N   LYS B 132     201.591 162.931  -2.576  1.00169.24       BS2
ATOM  33525  CA  LYS B 132     200.998 163.648  -3.693  1.00169.24       BS2
ATOM  33526  CB  LYS B 132     202.060 164.525  -4.365  1.00161.92       BS2
ATOM  33527  CG  LYS B 132     202.803 165.437  -3.392  1.00161.92       BS2
ATOM  33528  CD  LYS B 132     203.926 166.216  -4.067  1.00161.92       BS2
ATOM  33529  CE  LYS B 132     204.624 167.141  -3.072  1.00161.92       BS2
ATOM  33530  NZ  LYS B 132     205.712 167.953  -3.693  1.00161.92       BS2
ATOM  33531  C   LYS B 132     200.456 162.617  -4.677  1.00169.24       BS2
ATOM  33532  O   LYS B 132     199.655 162.941  -5.554  1.00169.24       BS2
ATOM  33533  N   LYS B 133     200.905 161.373  -4.521  1.00103.81       BS2
ATOM  33534  CA  LYS B 133     200.458 160.285  -5.379  1.00103.81       BS2
ATOM  33535  CB  LYS B 133     201.379 159.065  -5.238  1.00154.65       BS2
ATOM  33536  CG  LYS B 133     202.687 159.185  -6.019  1.00154.65       BS2
ATOM  33537  CD  LYS B 133     203.332 157.822  -6.270  1.00154.65       BS2
ATOM  33538  CE  LYS B 133     204.433 157.923  -7.321  1.00154.65       BS2
ATOM  33539  NZ  LYS B 133     205.081 156.622  -7.651  1.00154.65       BS2
ATOM  33540  C   LYS B 133     199.024 159.906  -5.029  1.00103.81       BS2
ATOM  33541  O   LYS B 133     198.141 159.942  -5.888  1.00103.81       BS2
ATOM  33542  N   GLU B 134     198.793 159.541  -3.770  1.00133.83       BS2
ATOM  33543  CA  GLU B 134     197.448 159.191  -3.334  1.00133.83       BS2
ATOM  33544  CB  GLU B 134     197.455 158.707  -1.885  1.00196.61       BS2
ATOM  33545  CG  GLU B 134     198.210 157.410  -1.681  1.00196.61       BS2
ATOM  33546  CD  GLU B 134     197.828 156.719  -0.389  1.00196.61       BS2
ATOM  33547  OE1 GLU B 134     197.971 157.340   0.686  1.00196.61       BS2
ATOM  33548  OE2 GLU B 134     197.382 155.553  -0.449  1.00196.61       BS2
ATOM  33549  C   GLU B 134     196.585 160.438  -3.466  1.00133.83       BS2
ATOM  33550  O   GLU B 134     195.357 160.365  -3.522  1.00133.83       BS2
ATOM  33551  N   GLN B 135     197.251 161.588  -3.518  1.00122.31       BS2
ATOM  33552  CA  GLN B 135     196.582 162.871  -3.680  1.00122.31       BS2
ATOM  33553  CB  GLN B 135     197.555 164.011  -3.369  1.00175.45       BS2
ATOM  33554  CG  GLN B 135     196.957 165.400  -3.497  1.00175.45       BS2
ATOM  33555  CD  GLN B 135     198.005 166.486  -3.415  1.00175.45       BS2
ATOM  33556  OE1 GLN B 135     198.953 166.507  -4.200  1.00175.45       BS2
ATOM  33557  NE2 GLN B 135     197.842 167.398  -2.464  1.00175.45       BS2
ATOM  33558  C   GLN B 135     196.143 162.942  -5.140  1.00122.31       BS2
ATOM  33559  O   GLN B 135     195.855 164.014  -5.674  1.00122.31       BS2
ATOM  33560  N   VAL B 136     196.113 161.778  -5.782  1.00107.94       BS2
ATOM  33561  CA  VAL B 136     195.714 161.673  -7.174  1.00107.94       BS2
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ATOM  33562  CB  VAL B 136     196.937 161.554  -8.094  1.00147.78       BS2
ATOM  33563  CG1 VAL B 136     196.489 161.507  -9.541  1.00147.78       BS2
ATOM  33564  CG2 VAL B 136     197.870 162.730  -7.869  1.00147.78       BS2
ATOM  33565  C   VAL B 136     194.812 160.460  -7.376  1.00107.94       BS2
ATOM  33566  O   VAL B 136     193.925 160.478  -8.228  1.00107.94       BS2
ATOM  33567  N   ARG B 137     195.039 159.400  -6.606  1.00134.54       BS2
ATOM  33568  CA  ARG B 137     194.192 158.218  -6.724  1.00134.54       BS2
ATOM  33569  CB  ARG B 137     194.648 157.109  -5.770  1.00191.57       BS2
ATOM  33570  CG  ARG B 137     196.073 156.630  -5.987  1.00191.57       BS2
ATOM  33571  CD  ARG B 137     196.336 155.267  -5.335  1.00191.57       BS2
ATOM  33572  NE  ARG B 137     196.070 155.240  -3.897  1.00191.57       BS2
ATOM  33573  CZ  ARG B 137     194.875 155.028  -3.352  1.00191.57       BS2
ATOM  33574  NH1 ARG B 137     193.815 154.821  -4.120  1.00191.57       BS2
ATOM  33575  NH2 ARG B 137     194.739 155.018  -2.033  1.00191.57       BS2
ATOM  33576  C   ARG B 137     192.801 158.690  -6.326  1.00134.54       BS2
ATOM  33577  O   ARG B 137     191.789 158.272  -6.893  1.00134.54       BS2
ATOM  33578  N   LEU B 138     192.779 159.581  -5.341  1.00106.70       BS2
ATOM  33579  CA  LEU B 138     191.545 160.156  -4.837  1.00106.70       BS2
ATOM  33580  CB  LEU B 138     191.814 160.902  -3.531  1.00118.36       BS2
ATOM  33581  CG  LEU B 138     192.413 160.041  -2.415  1.00118.36       BS2
ATOM  33582  CD1 LEU B 138     192.726 160.914  -1.213  1.00118.36       BS2
ATOM  33583  CD2 LEU B 138     191.444 158.928  -2.035  1.00118.36       BS2
ATOM  33584  C   LEU B 138     191.005 161.110  -5.886  1.00106.70       BS2
ATOM  33585  O   LEU B 138     189.877 160.949  -6.349  1.00106.70       BS2
ATOM  33586  N   LYS B 139     191.817 162.098  -6.260  1.00 66.13       BS2
ATOM  33587  CA  LYS B 139     191.430 163.074  -7.278  1.00 66.13       BS2
ATOM  33588  CB  LYS B 139     192.666 163.742  -7.888  1.00201.30       BS2
ATOM  33589  CG  LYS B 139     193.154 164.986  -7.164  1.00201.30       BS2
ATOM  33590  CD  LYS B 139     192.123 166.103  -7.226  1.00201.30       BS2
ATOM  33591  CE  LYS B 139     192.731 167.447  -6.838  1.00201.30       BS2
ATOM  33592  NZ  LYS B 139     193.351 167.440  -5.483  1.00201.30       BS2
ATOM  33593  C   LYS B 139     190.656 162.368  -8.378  1.00 66.13       BS2
ATOM  33594  O   LYS B 139     189.739 162.940  -8.964  1.00 66.13       BS2
ATOM  33595  N   HIS B 140     191.040 161.119  -8.647  1.00122.00       BS2
ATOM  33596  CA  HIS B 140     190.398 160.298  -9.668  1.00122.00       BS2
ATOM  33597  CB  HIS B 140     191.375 159.257 -10.222  1.00181.87       BS2
ATOM  33598  CG  HIS B 140     192.210 159.761 -11.357  1.00181.87       BS2
ATOM  33599  CD2 HIS B 140     193.551 159.777 -11.542  1.00181.87       BS2
ATOM  33600  ND1 HIS B 140     191.660 160.335 -12.483  1.00181.87       BS2
ATOM  33601  CE1 HIS B 140     192.627 160.686 -13.313  1.00181.87       BS2
ATOM  33602  NE2 HIS B 140     193.783 160.358 -12.766  1.00181.87       BS2
ATOM  33603  C   HIS B 140     189.161 159.591  -9.148  1.00122.00       BS2
ATOM  33604  O   HIS B 140     188.096 159.669  -9.761  1.00122.00       BS2
ATOM  33605  N   GLU B 141     189.301 158.899  -8.022  1.00100.71       BS2
ATOM  33606  CA  GLU B 141     188.177 158.183  -7.433  1.00100.71       BS2
ATOM  33607  CB  GLU B 141     188.489 157.789  -5.996  1.00102.10       BS2
ATOM  33608  CG  GLU B 141     187.373 157.009  -5.342  1.00102.10       BS2
ATOM  33609  CD  GLU B 141     187.704 156.614  -3.925  1.00102.10       BS2
ATOM  33610  OE1 GLU B 141     188.679 155.854  -3.733  1.00102.10       BS2
ATOM  33611  OE2 GLU B 141     186.990 157.068  -3.003  1.00102.10       BS2
ATOM  33612  C   GLU B 141     186.926 159.055  -7.467  1.00100.71       BS2
ATOM  33613  O   GLU B 141     185.806 158.553  -7.548  1.00100.71       BS2
ATOM  33614  N   LEU B 142     187.127 160.365  -7.390  1.00 57.36       BS2
ATOM  33615  CA  LEU B 142     186.020 161.302  -7.455  1.00 57.36       BS2
ATOM  33616  CB  LEU B 142     186.457 162.697  -7.009  1.00119.48       BS2
ATOM  33617  CG  LEU B 142     186.278 163.036  -5.531  1.00119.48       BS2
ATOM  33618  CD1 LEU B 142     186.902 164.383  -5.229  1.00119.48       BS2
ATOM  33619  CD2 LEU B 142     184.798 163.054  -5.196  1.00119.48       BS2
ATOM  33620  C   LEU B 142     185.617 161.350  -8.909  1.00 57.36       BS2
ATOM  33621  O   LEU B 142     184.518 160.945  -9.274  1.00 57.36       BS2
ATOM  33622  N   GLU B 143     186.540 161.841  -9.731  1.00 78.47       BS2
ATOM  33623  CA  GLU B 143     186.335 161.970 -11.165  1.00 78.47       BS2
ATOM  33624  CB  GLU B 143     187.605 161.575 -11.924  1.00172.33       BS2
ATOM  33625  CG  GLU B 143     188.855 162.332 -11.528  1.00172.33       BS2
ATOM  33626  CD  GLU B 143     188.760 163.813 -11.805  1.00172.33       BS2
ATOM  33627  OE1 GLU B 143     188.609 164.188 -12.986  1.00172.33       BS2
ATOM  33628  OE2 GLU B 143     188.837 164.603 -10.839  1.00172.33       BS2
ATOM  33629  C   GLU B 143     185.190 161.102 -11.653  1.00 78.47       BS2
ATOM  33630  O   GLU B 143     184.119 161.609 -12.001  1.00 78.47       BS2
ATOM  33631  N   ARG B 144     185.426 159.790 -11.663  1.00 71.76       BS2
ATOM  33632  CA  ARG B 144     184.430 158.836 -12.136  1.00 71.76       BS2
ATOM  33633  CB  ARG B 144     184.996 157.401 -12.119  1.00159.68       BS2
ATOM  33634  CG  ARG B 144     185.278 156.800 -10.745  1.00159.68       BS2
ATOM  33635  CD  ARG B 144     184.254 155.724 -10.383  1.00159.68       BS2
ATOM  33636  NE  ARG B 144     184.269 154.592 -11.311  1.00159.68       BS2
ATOM  33637  CZ  ARG B 144     183.408 153.577 -11.271  1.00159.68       BS2
ATOM  33638  NH1 ARG B 144     182.456 153.540 -10.349  1.00159.68       BS2
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ATOM  33639  NH2 ARG B 144     183.495 152.595 -12.158  1.00159.68       BS2
ATOM  33640  C   ARG B 144     183.156 158.930 -11.316  1.00 71.76       BS2
ATOM  33641  O   ARG B 144     182.063 159.037 -11.873  1.00 71.76       BS2
ATOM  33642  N   LEU B 145     183.299 158.896  -9.994  1.00 67.63       BS2
ATOM  33643  CA  LEU B 145     182.149 158.999  -9.111  1.00 67.63       BS2
ATOM  33644  CB  LEU B 145     182.602 159.294  -7.686  1.00 41.10       BS2
ATOM  33645  CG  LEU B 145     182.816 158.004  -6.908  1.00 41.10       BS2
ATOM  33646  CD1 LEU B 145     183.319 158.257  -5.484  1.00 41.10       BS2
ATOM  33647  CD2 LEU B 145     181.477 157.282  -6.896  1.00 41.10       BS2
ATOM  33648  C   LEU B 145     181.265 160.117  -9.610  1.00 67.63       BS2
ATOM  33649  O   LEU B 145     180.074 159.933  -9.854  1.00 67.63       BS2
ATOM  33650  N   GLN B 146     181.871 161.279  -9.784  1.00 59.70       BS2
ATOM  33651  CA  GLN B 146     181.144 162.435 -10.255  1.00 59.70       BS2
ATOM  33652  CB  GLN B 146     182.051 163.669 -10.209  1.00136.28       BS2
ATOM  33653  CG  GLN B 146     182.765 163.828  -8.871  1.00136.28       BS2
ATOM  33654  CD  GLN B 146     183.558 165.114  -8.756  1.00136.28       BS2
ATOM  33655  OE1 GLN B 146     182.993 166.208  -8.787  1.00136.28       BS2
ATOM  33656  NE2 GLN B 146     184.874 164.989  -8.614  1.00136.28       BS2
ATOM  33657  C   GLN B 146     180.664 162.174 -11.674  1.00 59.70       BS2
ATOM  33658  O   GLN B 146     179.669 162.747 -12.120  1.00 59.70       BS2
ATOM  33659  N   LYS B 147     181.359 161.289 -12.378  1.00 51.68       BS2
ATOM  33660  CA  LYS B 147     180.997 160.983 -13.757  1.00 51.68       BS2
ATOM  33661  CB  LYS B 147     182.110 160.181 -14.443  1.00109.70       BS2
ATOM  33662  CG  LYS B 147     183.394 160.943 -14.694  1.00109.70       BS2
ATOM  33663  CD  LYS B 147     184.429 160.048 -15.373  1.00109.70       BS2
ATOM  33664  CE  LYS B 147     185.724 160.804 -15.671  1.00109.70       BS2
ATOM  33665  NZ  LYS B 147     186.761 159.931 -16.295  1.00109.70       BS2
ATOM  33666  C   LYS B 147     179.697 160.213 -13.906  1.00 51.68       BS2
ATOM  33667  O   LYS B 147     178.805 160.622 -14.650  1.00 51.68       BS2
ATOM  33668  N   TYR B 148     179.599 159.105 -13.177  1.00 84.00       BS2
ATOM  33669  CA  TYR B 148     178.455 158.201 -13.260  1.00 84.00       BS2
ATOM  33670  CB  TYR B 148     178.966 156.759 -13.098  1.00118.14       BS2
ATOM  33671  CG  TYR B 148     180.139 156.427 -14.012  1.00118.14       BS2
ATOM  33672  CD1 TYR B 148     180.827 155.223 -13.902  1.00118.14       BS2
ATOM  33673  CE1 TYR B 148     181.910 154.934 -14.745  1.00118.14       BS2
ATOM  33674  CD2 TYR B 148     180.562 157.331 -14.989  1.00118.14       BS2
ATOM  33675  CE2 TYR B 148     181.634 157.058 -15.828  1.00118.14       BS2
ATOM  33676  CZ  TYR B 148     182.304 155.865 -15.705  1.00118.14       BS2
ATOM  33677  OH  TYR B 148     183.374 155.631 -16.543  1.00118.14       BS2
ATOM  33678  C   TYR B 148     177.322 158.473 -12.282  1.00 84.00       BS2
ATOM  33679  O   TYR B 148     176.164 158.137 -12.552  1.00 84.00       BS2
ATOM  33680  N   LEU B 149     177.656 159.097 -11.158  1.00 57.53       BS2
ATOM  33681  CA  LEU B 149     176.668 159.396 -10.131  1.00 57.53       BS2
ATOM  33682  CB  LEU B 149     177.217 158.960  -8.773  1.00 41.85       BS2
ATOM  33683  CG  LEU B 149     177.704 157.511  -8.685  1.00 41.85       BS2
ATOM  33684  CD1 LEU B 149     178.081 157.158  -7.241  1.00 41.85       BS2
ATOM  33685  CD2 LEU B 149     176.604 156.585  -9.184  1.00 41.85       BS2
ATOM  33686  C   LEU B 149     176.221 160.865 -10.060  1.00 57.53       BS2
ATOM  33687  O   LEU B 149     175.773 161.328  -9.013  1.00 57.53       BS2
ATOM  33688  N   SER B 150     176.332 161.593 -11.169  1.00 60.04       BS2
ATOM  33689  CA  SER B 150     175.941 163.000 -11.202  1.00 60.04       BS2
ATOM  33690  CB  SER B 150     176.173 163.579 -12.601  1.00143.41       BS2
ATOM  33691  OG  SER B 150     175.599 162.758 -13.602  1.00143.41       BS2
ATOM  33692  C   SER B 150     174.491 163.225 -10.773  1.00 60.04       BS2
ATOM  33693  O   SER B 150     174.241 163.897  -9.776  1.00 60.04       BS2
ATOM  33694  N   GLY B 151     173.540 162.664 -11.516  1.00 67.77       BS2
ATOM  33695  CA  GLY B 151     172.132 162.823 -11.175  1.00 67.77       BS2
ATOM  33696  C   GLY B 151     171.638 161.862 -10.103  1.00 67.77       BS2
ATOM  33697  O   GLY B 151     170.924 162.241  -9.173  1.00 67.77       BS2
ATOM  33698  N   PHE B 152     172.022 160.602 -10.231  1.00 68.42       BS2
ATOM  33699  CA  PHE B 152     171.630 159.584  -9.268  1.00 68.42       BS2
ATOM  33700  CB  PHE B 152     172.191 158.243  -9.709  1.00 61.49       BS2
ATOM  33701  CG  PHE B 152     171.788 157.121  -8.838  1.00 61.49       BS2
ATOM  33702  CD1 PHE B 152     170.518 156.580  -8.943  1.00 61.49       BS2
ATOM  33703  CD2 PHE B 152     172.668 156.628  -7.881  1.00 61.49       BS2
ATOM  33704  CE1 PHE B 152     170.121 155.563  -8.108  1.00 61.49       BS2
ATOM  33705  CE2 PHE B 152     172.290 155.613  -7.035  1.00 61.49       BS2
ATOM  33706  CZ  PHE B 152     171.008 155.073  -7.145  1.00 61.49       BS2
ATOM  33707  C   PHE B 152     172.186 159.953  -7.894  1.00 68.42       BS2
ATOM  33708  O   PHE B 152     172.183 159.163  -6.953  1.00 68.42       BS2
ATOM  33709  N   ARG B 153     172.664 161.179  -7.798  1.00 68.15       BS2
ATOM  33710  CA  ARG B 153     173.246 161.694  -6.579  1.00 68.15       BS2
ATOM  33711  CB  ARG B 153     174.109 162.906  -6.942  1.00131.14       BS2
ATOM  33712  CG  ARG B 153     175.102 163.355  -5.899  1.00131.14       BS2
ATOM  33713  CD  ARG B 153     175.908 164.544  -6.412  1.00131.14       BS2
ATOM  33714  NE  ARG B 153     176.923 164.953  -5.449  1.00131.14       BS2
ATOM  33715  CZ  ARG B 153     176.660 165.305  -4.194  1.00131.14       BS2
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ATOM  33716  NH1 ARG B 153     175.412 165.305  -3.745  1.00131.14      BS2
ATOM  33717  NH2 ARG B 153     177.648 165.645  -3.380  1.00131.14      BS2
ATOM  33718  C   ARG B 153     172.137 162.096  -5.609  1.00 68.15      BS2
ATOM  33719  O   ARG B 153     172.281 161.953  -4.393  1.00 68.15      BS2
ATOM  33720  N   LEU B 154     171.028 162.585  -6.160  1.00 71.88      BS2
ATOM  33721  CA  LEU B 154     169.894 163.044  -5.363  1.00 71.88      BS2
ATOM  33722  CB  LEU B 154     168.902 163.779  -6.257  1.00 52.71      BS2
ATOM  33723  CG  LEU B 154     169.507 164.883  -7.120  1.00 52.71      BS2
ATOM  33724  CD1 LEU B 154     168.383 165.661  -7.799  1.00 52.71      BS2
ATOM  33725  CD2 LEU B 154     170.365 165.791  -6.262  1.00 52.71      BS2
ATOM  33726  C   LEU B 154     169.146 161.976  -4.570  1.00 71.88      BS2
ATOM  33727  O   LEU B 154     169.067 162.050  -3.343  1.00 71.88      BS2
ATOM  33728  N   LEU B 155     168.575 161.002  -5.268  1.00 51.32      BS2
ATOM  33729  CA  LEU B 155     167.840 159.929  -4.614  1.00 51.32      BS2
ATOM  33730  CB  LEU B 155     167.878 158.672  -5.479  1.00 59.63      BS2
ATOM  33731  CG  LEU B 155     166.825 158.626  -6.581  1.00 59.63      BS2
ATOM  33732  CD1 LEU B 155     166.900 157.301  -7.312  1.00 59.63      BS2
ATOM  33733  CD2 LEU B 155     165.447 158.800  -5.956  1.00 59.63      BS2
ATOM  33734  C   LEU B 155     168.336 159.578  -3.212  1.00 51.32      BS2
ATOM  33735  O   LEU B 155     169.538 159.466  -2.981  1.00 51.32      BS2
ATOM  33736  N   LYS B 156     167.406 159.410  -2.277  1.00 67.34      BS2
ATOM  33737  CA  LYS B 156     167.759 159.039  -0.912  1.00 67.34      BS2
ATOM  33738  CB  LYS B 156     167.538 160.214   0.045  1.00154.78      BS2
ATOM  33739  CG  LYS B 156     168.588 160.340   1.161  1.00154.78      BS2
ATOM  33740  CD  LYS B 156     168.610 159.147   2.131  1.00154.78      BS2
ATOM  33741  CE  LYS B 156     169.447 157.970   1.621  1.00154.78      BS2
ATOM  33742  NZ  LYS B 156     169.398 156.794   2.546  1.00154.78      BS2
ATOM  33743  C   LYS B 156     166.889 157.845  -0.508  1.00 67.34      BS2
ATOM  33744  O   LYS B 156     166.900 157.396   0.638  1.00 67.34      BS2
ATOM  33745  N   ARG B 157     166.132 157.337  -1.474  1.00 41.82      BS2
ATOM  33746  CA  ARG B 157     165.265 156.184  -1.282  1.00 41.82      BS2
ATOM  33747  CB  ARG B 157     164.085 156.547  -0.386  1.00 98.99      BS2
ATOM  33748  CG  ARG B 157     163.190 157.639  -0.953  1.00 98.99      BS2
ATOM  33749  CD  ARG B 157     162.680 158.570   0.145  1.00 98.99      BS2
ATOM  33750  NE  ARG B 157     161.871 157.878   1.143  1.00 98.99      BS2
ATOM  33751  CZ  ARG B 157     160.647 157.414   0.920  1.00 98.99      BS2
ATOM  33752  NH1 ARG B 157     160.080 157.572  -0.269  1.00 98.99      BS2
ATOM  33753  NH2 ARG B 157     159.995 156.780   1.884  1.00 98.99      BS2
ATOM  33754  C   ARG B 157     164.791 155.888  -2.688  1.00 41.82      BS2
ATOM  33755  O   ARG B 157     164.693 156.803  -3.506  1.00 41.82      BS2
ATOM  33756  N   LEU B 158     164.521 154.626  -2.991  1.00 20.83      BS2
ATOM  33757  CA  LEU B 158     164.049 154.272  -4.330  1.00 20.83      BS2
ATOM  33758  CB  LEU B 158     163.359 152.914  -4.281  1.00 28.65      BS2
ATOM  33759  CG  LEU B 158     164.267 151.788  -3.782  1.00 28.65      BS2
ATOM  33760  CD1 LEU B 158     163.464 150.551  -3.487  1.00 28.65      BS2
ATOM  33761  CD2 LEU B 158     165.326 151.494  -4.838  1.00 28.65      BS2
ATOM  33762  C   LEU B 158     163.084 155.312  -4.906  1.00 20.83      BS2
ATOM  33763  O   LEU B 158     162.245 155.857  -4.197  1.00 20.83      BS2
ATOM  33764  N   PRO B 159     163.191 155.603  -6.206  1.00 38.95      BS2
ATOM  33765  CD  PRO B 159     163.935 154.878  -7.249  1.00 76.65      BS2
ATOM  33766  CA  PRO B 159     162.288 156.588  -6.805  1.00 38.95      BS2
ATOM  33767  CB  PRO B 159     162.744 156.622  -8.255  1.00 76.65      BS2
ATOM  33768  CG  PRO B 159     163.137 155.200  -8.495  1.00 76.65      BS2
ATOM  33769  C   PRO B 159     160.836 156.126  -6.672  1.00 38.95      BS2
ATOM  33770  O   PRO B 159     160.566 155.020  -6.206  1.00 38.95      BS2
ATOM  33771  N   ASP B 160     159.896 156.964  -7.080  1.00 44.81      BS2
ATOM  33772  CA  ASP B 160     158.491 156.593  -6.989  1.00 44.81      BS2
ATOM  33773  CB  ASP B 160     157.667 157.758  -6.428  1.00125.13      BS2
ATOM  33774  CG  ASP B 160     158.051 158.109  -4.997  1.00125.13      BS2
ATOM  33775  OD1 ASP B 160     157.776 157.298  -4.086  1.00125.13      BS2
ATOM  33776  OD2 ASP B 160     158.634 159.194  -4.781  1.00125.13      BS2
ATOM  33777  C   ASP B 160     158.029 156.237  -8.384  1.00 44.81      BS2
ATOM  33778  O   ASP B 160     156.931 155.719  -8.590  1.00 44.81      BS2
ATOM  33779  N   ALA B 161     158.889 156.525  -9.348  1.00 46.96      BS2
ATOM  33780  CA  ALA B 161     158.591 156.235 -10.734  1.00 46.96      BS2
ATOM  33781  CB  ALA B 161     157.608 157.252 -11.297  1.00 58.63      BS2
ATOM  33782  C   ALA B 161     159.871 156.257 -11.531  1.00 46.96      BS2
ATOM  33783  O   ALA B 161     160.958 156.452 -10.989  1.00 46.96      BS2
ATOM  33784  N   ILE B 162     159.724 156.057 -12.830  1.00 38.29      BS2
ATOM  33785  CA  ILE B 162     160.851 156.026 -13.730  1.00 38.29      BS2
ATOM  33786  CB  ILE B 162     161.469 154.614 -13.765  1.00 44.14      BS2
ATOM  33787  CG2 ILE B 162     162.217 154.370 -15.061  1.00 44.14      BS2
ATOM  33788  CG1 ILE B 162     162.413 154.453 -12.586  1.00 44.14      BS2
ATOM  33789  CD1 ILE B 162     163.181 153.163 -12.622  1.00 44.14      BS2
ATOM  33790  C   ILE B 162     160.405 156.431 -15.120  1.00 38.29      BS2
ATOM  33791  O   ILE B 162     159.541 155.784 -15.725  1.00 38.29      BS2
ATOM  33792  N   PHE B 163     160.976 157.531 -15.601  1.00 76.60      BS2
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ATOM  33793  CA  PHE B 163     160.676 158.020 -16.934  1.00 76.60       BS2
ATOM  33794  CB  PHE B 163     160.495 159.539 -16.965  1.00 83.02       BS2
ATOM  33795  CG  PHE B 163     159.935 160.042 -18.263  1.00 83.02       BS2
ATOM  33796  CD1 PHE B 163     158.597 159.837 -18.579  1.00 83.02       BS2
ATOM  33797  CD2 PHE B 163     160.754 160.656 -19.199  1.00 83.02       BS2
ATOM  33798  CE1 PHE B 163     158.081 160.231 -19.813  1.00 83.02       BS2
ATOM  33799  CE2 PHE B 163     160.248 161.056 -20.438  1.00 83.02       BS2
ATOM  33800  CZ  PHE B 163     158.910 160.842 -20.745  1.00 83.02       BS2
ATOM  33801  C   PHE B 163     161.898 157.646 -17.732  1.00 76.60       BS2
ATOM  33802  O   PHE B 163     162.973 158.214 -17.547  1.00 76.60       BS2
ATOM  33803  N   VAL B 164     161.737 156.665 -18.603  1.00 59.76       BS2
ATOM  33804  CA  VAL B 164     162.846 156.214 -19.408  1.00 59.76       BS2
ATOM  33805  CB  VAL B 164     163.093 154.714 -19.193  1.00 69.05       BS2
ATOM  33806  CG1 VAL B 164     161.838 153.935 -19.510  1.00 69.05       BS2
ATOM  33807  CG2 VAL B 164     164.239 154.250 -20.055  1.00 69.05       BS2
ATOM  33808  C   VAL B 164     162.588 156.489 -20.877  1.00 59.76       BS2
ATOM  33809  O   VAL B 164     161.442 156.536 -21.331  1.00 59.76       BS2
ATOM  33810  N   VAL B 165     163.672 156.683 -21.610  1.00 91.22       BS2
ATOM  33811  CA  VAL B 165     163.603 156.953 -23.030  1.00 91.22       BS2
ATOM  33812  CB  VAL B 165     164.848 157.681 -23.456  1.00 48.32       BS2
ATOM  33813  CG1 VAL B 165     164.693 159.153 -23.156  1.00 48.32       BS2
ATOM  33814  CG2 VAL B 165     166.044 157.116 -22.691  1.00 48.32       BS2
ATOM  33815  C   VAL B 165     163.450 155.658 -23.821  1.00 91.22       BS2
ATOM  33816  O   VAL B 165     162.348 155.129 -23.916  1.00 91.22       BS2
ATOM  33817  N   ASP B 166     164.536 155.146 -24.394  1.00 58.54       BS2
ATOM  33818  CA  ASP B 166     164.458 153.895 -25.146  1.00 58.54       BS2
ATOM  33819  CB  ASP B 166     165.604 153.805 -26.161  1.00 88.47       BS2
ATOM  33820  CG  ASP B 166     165.423 152.667 -27.159  1.00 88.47       BS2
ATOM  33821  OD1 ASP B 166     164.269 152.406 -27.555  1.00 88.47       BS2
ATOM  33822  OD2 ASP B 166     166.431 152.047 -27.561  1.00 88.47       BS2
ATOM  33823  C   ASP B 166     164.546 152.755 -24.127  1.00 58.54       BS2
ATOM  33824  O   ASP B 166     165.626 152.436 -23.620  1.00 58.54       BS2
ATOM  33825  N   PRO B 167     163.401 152.126 -23.814  1.00 48.94       BS2
ATOM  33826  CD  PRO B 167     162.128 152.243 -24.549  1.00 39.33       BS2
ATOM  33827  CA  PRO B 167     163.324 151.029 -22.854  1.00 48.94       BS2
ATOM  33828  CB  PRO B 167     161.826 150.808 -22.727  1.00 39.33       BS2
ATOM  33829  CG  PRO B 167     161.378 150.978 -24.128  1.00 39.33       BS2
ATOM  33830  C   PRO B 167     164.035 149.802 -23.379  1.00 48.94       BS2
ATOM  33831  O   PRO B 167     164.681 149.071 -22.623  1.00 48.94       BS2
ATOM  33832  N   THR B 168     163.895 149.580 -24.682  1.00 64.74       BS2
ATOM  33833  CA  THR B 168     164.517 148.440 -25.338  1.00 64.74       BS2
ATOM  33834  CB  THR B 168     164.335 148.497 -26.856  1.00 82.50       BS2
ATOM  33835  OG1 THR B 168     162.960 148.753 -27.164  1.00 82.50       BS2
ATOM  33836  CG2 THR B 168     164.769 147.178 -27.488  1.00 82.50       BS2
ATOM  33837  C   THR B 168     166.001 148.476 -25.052  1.00 64.74       BS2
ATOM  33838  O   THR B 168     166.608 147.464 -24.718  1.00 64.74       BS2
ATOM  33839  N   LYS B 169     166.569 149.667 -25.184  1.00 49.64       BS2
ATOM  33840  CA  LYS B 169     167.984 149.889 -24.959  1.00 49.64       BS2
ATOM  33841  CB  LYS B 169     168.399 151.168 -25.692  1.00 58.33       BS2
ATOM  33842  CG  LYS B 169     169.846 151.580 -25.531  1.00 58.33       BS2
ATOM  33843  CD  LYS B 169     169.984 152.678 -24.491  1.00 58.33       BS2
ATOM  33844  CE  LYS B 169     171.414 153.177 -24.402  1.00 58.33       BS2
ATOM  33845  NZ  LYS B 169     172.354 152.081 -24.045  1.00 58.33       BS2
ATOM  33846  C   LYS B 169     168.268 149.994 -23.466  1.00 49.64       BS2
ATOM  33847  O   LYS B 169     169.370 149.694 -23.008  1.00 49.64       BS2
ATOM  33848  N   GLU B 170     167.258 150.389 -22.702  1.00 48.63       BS2
ATOM  33849  CA  GLU B 170     167.425 150.545 -21.269  1.00 48.63       BS2
ATOM  33850  CB  GLU B 170     166.817 151.873 -20.844  1.00 71.70       BS2
ATOM  33851  CG  GLU B 170     167.749 152.707 -20.000  1.00 71.70       BS2
ATOM  33852  CD  GLU B 170     169.024 153.074 -20.729  1.00 71.70       BS2
ATOM  33853  OE1 GLU B 170     168.936 153.807 -21.744  1.00 71.70       BS2
ATOM  33854  OE2 GLU B 170     170.107 152.628 -20.279  1.00 71.70       BS2
ATOM  33855  C   GLU B 170     166.821 149.409 -20.445  1.00 48.63       BS2
ATOM  33856  O   GLU B 170     166.579 149.559 -19.246  1.00 48.63       BS2
ATOM  33857  N   ALA B 171     166.606 148.269 -21.093  1.00 68.88       BS2
ATOM  33858  CA  ALA B 171     166.011 147.088 -20.468  1.00 68.88       BS2
ATOM  33859  CB  ALA B 171     166.405 145.850 -21.258  1.00160.57       BS2
ATOM  33860  C   ALA B 171     166.282 146.849 -18.977  1.00 68.88       BS2
ATOM  33861  O   ALA B 171     165.349 146.711 -18.187  1.00 68.88       BS2
ATOM  33862  N   ILE B 172     167.550 146.785 -18.595  1.00 32.53       BS2
ATOM  33863  CA  ILE B 172     167.907 146.535 -17.199  1.00 32.53       BS2
ATOM  33864  CB  ILE B 172     169.438 146.523 -17.006  1.00 47.43       BS2
ATOM  33865  CG2 ILE B 172     169.785 146.056 -15.595  1.00 47.43       BS2
ATOM  33866  CG1 ILE B 172     170.086 145.593 -18.026  1.00 47.43       BS2
ATOM  33867  CD1 ILE B 172     171.580 145.552 -17.926  1.00 47.43       BS2
ATOM  33868  C   ILE B 172     167.320 147.556 -16.228  1.00 32.53       BS2
ATOM  33869  O   ILE B 172     166.962 147.224 -15.092  1.00 32.53       BS2
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ATOM  33870  N   ALA B 173     167.250 148.810 -16.658  1.00 55.11      BS2
ATOM  33871  CA  ALA B 173     166.690 149.838 -15.802  1.00 55.11      BS2
ATOM  33872  CB  ALA B 173     166.631 151.146 -16.538  1.00 58.14      BS2
ATOM  33873  C   ALA B 173     165.293 149.361 -15.464  1.00 55.11      BS2
ATOM  33874  O   ALA B 173     164.955 149.129 -14.304  1.00 55.11      BS2
ATOM  33875  N   VAL B 174     164.495 149.191 -16.506  1.00 35.16      BS2
ATOM  33876  CA  VAL B 174     163.132 148.724 -16.363  1.00 35.16      BS2
ATOM  33877  CB  VAL B 174     162.571 148.346 -17.727  1.00  2.30      BS2
ATOM  33878  CG1 VAL B 174     161.181 147.740 -17.570  1.00  2.30      BS2
ATOM  33879  CG2 VAL B 174     162.537 149.561 -18.620  1.00  2.30      BS2
ATOM  33880  C   VAL B 174     163.029 147.503 -15.446  1.00 35.16      BS2
ATOM  33881  O   VAL B 174     162.403 147.553 -14.385  1.00 35.16      BS2
ATOM  33882  N   ARG B 175     163.644 146.406 -15.872  1.00 32.08      BS2
ATOM  33883  CA  ARG B 175     163.618 145.168 -15.116  1.00 32.08      BS2
ATOM  33884  CB  ARG B 175     164.750 144.256 -15.577  1.00151.94      BS2
ATOM  33885  CG  ARG B 175     164.629 142.812 -15.130  1.00151.94      BS2
ATOM  33886  CD  ARG B 175     165.760 142.007 -15.735  1.00151.94      BS2
ATOM  33887  NE  ARG B 175     165.808 142.183 -17.185  1.00151.94      BS2
ATOM  33888  CZ  ARG B 175     166.867 141.910 -17.943  1.00151.94      BS2
ATOM  33889  NH1 ARG B 175     167.981 141.445 -17.390  1.00151.94      BS2
ATOM  33890  NH2 ARG B 175     166.817 142.105 -19.255  1.00151.94      BS2
ATOM  33891  C   ARG B 175     163.748 145.462 -13.636  1.00 32.08      BS2
ATOM  33892  O   ARG B 175     162.852 145.136 -12.864  1.00 32.08      BS2
ATOM  33893  N   GLU B 176     164.853 146.090 -13.240  1.00 48.01      BS2
ATOM  33894  CA  GLU B 176     165.068 146.410 -11.831  1.00 48.01      BS2
ATOM  33895  CB  GLU B 176     166.239 147.389 -11.664  1.00 58.67      BS2
ATOM  33896  CG  GLU B 176     167.604 146.709 -11.660  1.00 58.67      BS2
ATOM  33897  CD  GLU B 176     168.707 147.561 -11.050  1.00 58.67      BS2
ATOM  33898  OE1 GLU B 176     168.481 148.163  -9.980  1.00 58.67      BS2
ATOM  33899  OE2 GLU B 176     169.808 147.619 -11.635  1.00 58.67      BS2
ATOM  33900  C   GLU B 176     163.801 147.003 -11.238  1.00 48.01      BS2
ATOM  33901  O   GLU B 176     163.259 146.494 -10.253  1.00 48.01      BS2
ATOM  33902  N   ALA B 177     163.335 148.079 -11.862  1.00 35.74      BS2
ATOM  33903  CA  ALA B 177     162.123 148.758 -11.435  1.00 35.74      BS2
ATOM  33904  CB  ALA B 177     161.629 149.685 -12.545  1.00 54.48      BS2
ATOM  33905  C   ALA B 177     161.101 147.678 -11.157  1.00 35.74      BS2
ATOM  33906  O   ALA B 177     160.823 147.357 -10.009  1.00 35.74      BS2
ATOM  33907  N   ARG B 178     160.561 147.121 -12.233  1.00 23.73      BS2
ATOM  33908  CA  ARG B 178     159.583 146.049 -12.165  1.00 23.73      BS2
ATOM  33909  CB  ARG B 178     159.778 145.111 -13.351  1.00 52.68      BS2
ATOM  33910  CG  ARG B 178     158.781 145.257 -14.448  1.00 52.68      BS2
ATOM  33911  CD  ARG B 178     158.837 146.615 -15.069  1.00 52.68      BS2
ATOM  33912  NE  ARG B 178     157.841 146.715 -16.124  1.00 52.68      BS2
ATOM  33913  CZ  ARG B 178     156.586 146.288 -16.002  1.00 52.68      BS2
ATOM  33914  NH1 ARG B 178     156.165 145.723 -14.874  1.00 52.68      BS2
ATOM  33915  NH2 ARG B 178     155.742 146.436 -17.010  1.00 52.68      BS2
ATOM  33916  C   ARG B 178     159.676 145.222 -10.882  1.00 23.73      BS2
ATOM  33917  O   ARG B 178     158.741 145.199 -10.090  1.00 23.73      BS2
ATOM  33918  N   LYS B 179     160.803 144.534 -10.692  1.00 56.54      BS2
ATOM  33919  CA  LYS B 179     160.978 143.689  -9.517  1.00 56.54      BS2
ATOM  33920  CB  LYS B 179     162.404 143.143  -9.425  1.00105.89      BS2
ATOM  33921  CG  LYS B 179     162.618 142.262  -8.182  1.00105.89      BS2
ATOM  33922  CD  LYS B 179     164.035 141.715  -8.073  1.00105.89      BS2
ATOM  33923  CE  LYS B 179     164.346 140.745  -9.196  1.00105.89      BS2
ATOM  33924  NZ  LYS B 179     165.757 140.289  -9.145  1.00105.89      BS2
ATOM  33925  C   LYS B 179     160.665 144.443  -8.248  1.00 56.54      BS2
ATOM  33926  O   LYS B 179     160.120 143.888  -7.295  1.00 56.54      BS2
ATOM  33927  N   LEU B 180     161.023 145.715  -8.241  1.00 45.08      BS2
ATOM  33928  CA  LEU B 180     160.783 146.559  -7.089  1.00 45.08      BS2
ATOM  33929  CB  LEU B 180     161.838 147.649  -7.039  1.00 23.41      BS2
ATOM  33930  CG  LEU B 180     163.193 147.123  -6.616  1.00 23.41      BS2
ATOM  33931  CD1 LEU B 180     164.220 148.213  -6.793  1.00 23.41      BS2
ATOM  33932  CD2 LEU B 180     163.127 146.660  -5.171  1.00 23.41      BS2
ATOM  33933  C   LEU B 180     159.399 147.193  -7.087  1.00 45.08      BS2
ATOM  33934  O   LEU B 180     158.968 147.739  -6.075  1.00 45.08      BS2
ATOM  33935  N   PHE B 181     158.698 147.112  -8.209  1.00 70.00      BS2
ATOM  33936  CA  PHE B 181     157.375 147.707  -8.311  1.00 70.00      BS2
ATOM  33937  CB  PHE B 181     156.500 147.379  -7.089  1.00 49.70      BS2
ATOM  33938  CG  PHE B 181     156.172 145.918  -6.929  1.00 49.70      BS2
ATOM  33939  CD1 PHE B 181     156.679 145.193  -5.850  1.00 49.70      BS2
ATOM  33940  CD2 PHE B 181     155.354 145.264  -7.851  1.00 49.70      BS2
ATOM  33941  CE1 PHE B 181     156.377 143.843  -5.695  1.00 49.70      BS2
ATOM  33942  CE2 PHE B 181     155.046 143.917  -7.705  1.00 49.70      BS2
ATOM  33943  CZ  PHE B 181     155.559 143.205  -6.627  1.00 49.70      BS2
ATOM  33944  C   PHE B 181     157.578 149.210  -8.367  1.00 70.00      BS2
ATOM  33945  O   PHE B 181     157.409 149.907  -7.372  1.00 70.00      BS2
ATOM  33946  N   ILE B 182     157.963 149.717  -9.524  1.00 46.00      BS2
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ATOM  33947  CA  ILE B 182     158.158 151.143  -9.650  1.00 46.00       BS2
ATOM  33948  CB  ILE B 182     159.622 151.505  -9.528  1.00  8.70       BS2
ATOM  33949  CG2 ILE B 182     159.786 153.007  -9.784  1.00  8.70       BS2
ATOM  33950  CG1 ILE B 182     160.160 151.060  -8.166  1.00  8.70       BS2
ATOM  33951  CD1 ILE B 182     161.595 151.545  -7.874  1.00  8.70       BS2
ATOM  33952  C   ILE B 182     157.663 151.616 -11.003  1.00 46.00       BS2
ATOM  33953  O   ILE B 182     158.405 151.600 -11.979  1.00 46.00       BS2
ATOM  33954  N   PRO B 183     156.408 152.071 -11.071  1.00 59.57       BS2
ATOM  33955  CD  PRO B 183     155.616 152.544  -9.924  1.00 80.04       BS2
ATOM  33956  CA  PRO B 183     155.827 152.545 -12.329  1.00 59.57       BS2
ATOM  33957  CB  PRO B 183     154.894 153.653 -11.867  1.00 80.04       BS2
ATOM  33958  CG  PRO B 183     154.371 153.095 -10.595  1.00 80.04       BS2
ATOM  33959  C   PRO B 183     156.854 153.029 -13.348  1.00 59.57       BS2
ATOM  33960  O   PRO B 183     157.655 153.925 -13.075  1.00 59.57       BS2
ATOM  33961  N   VAL B 184     156.847 152.417 -14.521  1.00 33.53       BS2
ATOM  33962  CA  VAL B 184     157.775 152.820 -15.552  1.00 33.53       BS2
ATOM  33963  CB  VAL B 184     158.448 151.616 -16.239  1.00 41.36       BS2
ATOM  33964  CG1 VAL B 184     159.425 150.958 -15.287  1.00 41.36       BS2
ATOM  33965  CG2 VAL B 184     157.394 150.628 -16.708  1.00 41.36       BS2
ATOM  33966  C   VAL B 184     157.052 153.635 -16.602  1.00 33.53       BS2
ATOM  33967  O   VAL B 184     156.020 153.229 -17.147  1.00 33.53       BS2
ATOM  33968  N   ILE B 185     157.609 154.803 -16.870  1.00 64.24       BS2
ATOM  33969  CA  ILE B 185     157.068 155.710 -17.856  1.00 64.24       BS2
ATOM  33970  CB  ILE B 185     156.993 157.120 -17.272  1.00 33.44       BS2
ATOM  33971  CG2 ILE B 185     155.874 157.900 -17.931  1.00 33.44       BS2
ATOM  33972  CG1 ILE B 185     156.758 157.021 -15.764  1.00 33.44       BS2
ATOM  33973  CD1 ILE B 185     156.941 158.319 -15.021  1.00 33.44       BS2
ATOM  33974  C   ILE B 185     158.111 155.655 -18.957  1.00 64.24       BS2
ATOM  33975  O   ILE B 185     159.294 155.888 -18.702  1.00 64.24       BS2
ATOM  33976  N   ALA B 186     157.699 155.335 -20.175  1.00 49.12       BS2
ATOM  33977  CA  ALA B 186     158.683 155.248 -21.238  1.00 49.12       BS2
ATOM  33978  CB  ALA B 186     159.087 153.804 -21.425  1.00124.62       BS2
ATOM  33979  C   ALA B 186     158.307 155.845 -22.585  1.00 49.12       BS2
ATOM  33980  O   ALA B 186     157.163 155.755 -23.032  1.00 49.12       BS2
ATOM  33981  N   LEU B 187     159.291 156.466 -23.224  1.00 48.85       BS2
ATOM  33982  CA  LEU B 187     159.093 157.042 -24.540  1.00 48.85       BS2
ATOM  33983  CB  LEU B 187     159.962 158.283 -24.727  1.00 42.81       BS2
ATOM  33984  CG  LEU B 187     159.665 159.191 -25.930  1.00 42.81       BS2
ATOM  33985  CD1 LEU B 187     160.983 159.704 -26.468  1.00 42.81       BS2
ATOM  33986  CD2 LEU B 187     158.914 158.451 -27.023  1.00 42.81       BS2
ATOM  33987  C   LEU B 187     159.616 155.933 -25.425  1.00 48.85       BS2
ATOM  33988  O   LEU B 187     160.825 155.798 -25.602  1.00 48.85       BS2
ATOM  33989  N   ALA B 188     158.725 155.131 -25.987  1.00 66.14       BS2
ATOM  33990  CA  ALA B 188     159.192 154.027 -26.803  1.00 66.14       BS2
ATOM  33991  CB  ALA B 188     159.208 152.768 -25.974  1.00 67.75       BS2
ATOM  33992  C   ALA B 188     158.412 153.786 -28.072  1.00 66.14       BS2
ATOM  33993  O   ALA B 188     157.254 154.182 -28.196  1.00 66.14       BS2
ATOM  33994  N   ASP B 189     159.066 153.107 -29.008  1.00 77.88       BS2
ATOM  33995  CA  ASP B 189     158.463 152.780 -30.287  1.00 77.88       BS2
ATOM  33996  CB  ASP B 189     158.947 153.744 -31.358  1.00 92.89       BS2
ATOM  33997  CG  ASP B 189     160.442 153.870 -31.377  1.00 92.89       BS2
ATOM  33998  OD1 ASP B 189     161.024 154.136 -30.302  1.00 92.89       BS2
ATOM  33999  OD2 ASP B 189     161.030 153.710 -32.464  1.00 92.89       BS2
ATOM  34000  C   ASP B 189     158.768 151.359 -30.712  1.00 77.88       BS2
ATOM  34001  O   ASP B 189     159.412 150.602 -29.992  1.00 77.88       BS2
ATOM  34002  N   THR B 190     158.268 151.018 -31.891  1.00 43.36       BS2
ATOM  34003  CA  THR B 190     158.438 149.716 -32.520  1.00 43.36       BS2
ATOM  34004  CB  THR B 190     158.764 149.942 -33.981  1.00 44.58       BS2
ATOM  34005  OG1 THR B 190     159.494 151.168 -34.090  1.00 44.58       BS2
ATOM  34006  CG2 THR B 190     157.500 150.057 -34.802  1.00 44.58       BS2
ATOM  34007  C   THR B 190     159.499 148.785 -31.917  1.00 43.36       BS2
ATOM  34008  O   THR B 190     159.224 147.621 -31.609  1.00 43.36       BS2
ATOM  34009  N   ASP B 191     160.713 149.293 -31.745  1.00 35.52       BS2
ATOM  34010  CA  ASP B 191     161.791 148.472 -31.211  1.00 35.52       BS2
ATOM  34011  CB  ASP B 191     163.110 149.264 -31.220  1.00 71.44       BS2
ATOM  34012  CG  ASP B 191     163.195 150.299 -30.110  1.00 71.44       BS2
ATOM  34013  OD1 ASP B 191     162.143 150.694 -29.561  1.00 71.44       BS2
ATOM  34014  OD2 ASP B 191     164.328 150.730 -29.795  1.00 71.44       BS2
ATOM  34015  C   ASP B 191     161.551 147.873 -29.829  1.00 35.52       BS2
ATOM  34016  O   ASP B 191     162.267 146.967 -29.429  1.00 35.52       BS2
ATOM  34017  N   SER B 192     160.540 148.344 -29.107  1.00 64.44       BS2
ATOM  34018  CA  SER B 192     160.300 147.830 -27.759  1.00 64.44       BS2
ATOM  34019  CB  SER B 192     160.264 148.987 -26.764  1.00163.61       BS2
ATOM  34020  OG  SER B 192     159.219 149.882 -27.085  1.00163.61       BS2
ATOM  34021  C   SER B 192     159.059 146.977 -27.545  1.00 64.44       BS2
ATOM  34022  O   SER B 192     158.202 146.851 -28.419  1.00 64.44       BS2
ATOM  34023  N   ASP B 193     158.991 146.393 -26.351  1.00 42.12       BS2
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ATOM  34024  CA  ASP B 193     157.878 145.550 -25.930  1.00 42.12      BS2
ATOM  34025  CB  ASP B 193     158.403 144.323 -25.178  1.00 88.18      BS2
ATOM  34026  CG  ASP B 193     157.338 143.646 -24.337  1.00 88.18      BS2
ATOM  34027  OD1 ASP B 193     156.176 143.565 -24.785  1.00 88.18      BS2
ATOM  34028  OD2 ASP B 193     157.675 143.180 -23.227  1.00 88.18      BS2
ATOM  34029  C   ASP B 193     157.009 146.395 -25.021  1.00 42.12      BS2
ATOM  34030  O   ASP B 193     157.327 146.599 -23.852  1.00 42.12      BS2
ATOM  34031  N   PRO B 194     155.899 146.908 -25.560  1.00 43.07      BS2
ATOM  34032  CD  PRO B 194     155.380 146.534 -26.889  1.00 37.97      BS2
ATOM  34033  CA  PRO B 194     154.942 147.753 -24.840  1.00 43.07      BS2
ATOM  34034  CB  PRO B 194     153.833 147.959 -25.868  1.00 37.97      BS2
ATOM  34035  CG  PRO B 194     153.902 146.694 -26.707  1.00 37.97      BS2
ATOM  34036  C   PRO B 194     154.419 147.151 -23.537  1.00 43.07      BS2
ATOM  34037  O   PRO B 194     154.235 147.858 -22.536  1.00 43.07      BS2
ATOM  34038  N   ASP B 195     154.180 145.842 -23.554  1.00 33.05      BS2
ATOM  34039  CA  ASP B 195     153.664 145.155 -22.384  1.00 33.05      BS2
ATOM  34040  CB  ASP B 195     153.623 143.645 -22.623  1.00138.69      BS2
ATOM  34041  CG  ASP B 195     152.548 143.244 -23.614  1.00138.69      BS2
ATOM  34042  OD1 ASP B 195     151.401 143.726 -23.479  1.00138.69      BS2
ATOM  34043  OD2 ASP B 195     152.847 142.442 -24.523  1.00138.69      BS2
ATOM  34044  C   ASP B 195     154.452 145.457 -21.121  1.00 33.05      BS2
ATOM  34045  O   ASP B 195     153.891 145.514 -20.042  1.00 33.05      BS2
ATOM  34046  N   LEU B 196     155.749 145.677 -21.250  1.00 24.65      BS2
ATOM  34047  CA  LEU B 196     156.570 145.946 -20.088  1.00 24.65      BS2
ATOM  34048  CB  LEU B 196     158.002 145.511 -20.364  1.00 49.38      BS2
ATOM  34049  CG  LEU B 196     158.340 144.199 -19.681  1.00 49.38      BS2
ATOM  34050  CD1 LEU B 196     159.834 143.914 -19.753  1.00 49.38      BS2
ATOM  34051  CD2 LEU B 196     157.894 144.308 -18.235  1.00 49.38      BS2
ATOM  34052  C   LEU B 196     156.567 147.393 -19.612  1.00 24.65      BS2
ATOM  34053  O   LEU B 196     157.272 147.743 -18.654  1.00 24.65      BS2
ATOM  34054  N   VAL B 197     155.776 148.240 -20.258  1.00 56.76      BS2
ATOM  34055  CA  VAL B 197     155.748 149.633 -19.858  1.00 56.76      BS2
ATOM  34056  CB  VAL B 197     155.963 150.551 -21.052  1.00 86.98      BS2
ATOM  34057  CG1 VAL B 197     156.356 151.937 -20.573  1.00 86.98      BS2
ATOM  34058  CG2 VAL B 197     157.014 149.969 -21.957  1.00 86.98      BS2
ATOM  34059  C   VAL B 197     154.436 150.005 -19.199  1.00 56.76      BS2
ATOM  34060  O   VAL B 197     153.364 149.826 -19.787  1.00 56.76      BS2
ATOM  34061  N   ASP B 198     154.535 150.531 -17.979  1.00 49.62      BS2
ATOM  34062  CA  ASP B 198     153.373 150.950 -17.204  1.00 49.62      BS2
ATOM  34063  CB  ASP B 198     153.816 151.367 -15.806  1.00 73.22      BS2
ATOM  34064  CG  ASP B 198     154.520 150.255 -15.072  1.00 73.22      BS2
ATOM  34065  OD1 ASP B 198     154.011 149.119 -15.120  1.00 73.22      BS2
ATOM  34066  OD2 ASP B 198     155.569 150.507 -14.443  1.00 73.22      BS2
ATOM  34067  C   ASP B 198     152.633 152.099 -17.882  1.00 49.62      BS2
ATOM  34068  O   ASP B 198     151.431 152.008 -18.125  1.00 49.62      BS2
ATOM  34069  N   TYR B 199     153.357 153.179 -18.172  1.00 65.70      BS2
ATOM  34070  CA  TYR B 199     152.797 154.350 -18.850  1.00 65.70      BS2
ATOM  34071  CB  TYR B 199     152.807 155.561 -17.918  1.00 59.36      BS2
ATOM  34072  CG  TYR B 199     152.104 155.322 -16.599  1.00 59.36      BS2
ATOM  34073  CD1 TYR B 199     152.814 154.928 -15.468  1.00 59.36      BS2
ATOM  34074  CE1 TYR B 199     152.164 154.701 -14.249  1.00 59.36      BS2
ATOM  34075  CD2 TYR B 199     150.724 155.481 -16.484  1.00 59.36      BS2
ATOM  34076  CE2 TYR B 199     150.064 155.255 -15.277  1.00 59.36      BS2
ATOM  34077  CZ  TYR B 199     150.788 154.866 -14.163  1.00 59.36      BS2
ATOM  34078  OH  TYR B 199     150.139 154.635 -12.968  1.00 59.36      BS2
ATOM  34079  C   TYR B 199     153.652 154.618 -20.094  1.00 65.70      BS2
ATOM  34080  O   TYR B 199     154.771 155.135 -20.007  1.00 65.70      BS2
ATOM  34081  N   ILE B 200     153.109 154.255 -21.251  1.00 67.79      BS2
ATOM  34082  CA  ILE B 200     153.817 154.388 -22.515  1.00 67.79      BS2
ATOM  34083  CB  ILE B 200     153.432 153.253 -23.496  1.00148.56      BS2
ATOM  34084  CG2 ILE B 200     154.245 153.369 -24.777  1.00148.56      BS2
ATOM  34085  CG1 ILE B 200     153.669 151.891 -22.848  1.00148.56      BS2
ATOM  34086  CD1 ILE B 200     153.231 150.714 -23.705  1.00148.56      BS2
ATOM  34087  C   ILE B 200     153.596 155.684 -23.261  1.00 67.79      BS2
ATOM  34088  O   ILE B 200     152.503 156.246 -23.256  1.00 67.79      BS2
ATOM  34089  N   ILE B 201     154.663 156.144 -23.903  1.00 49.66      BS2
ATOM  34090  CA  ILE B 201     154.638 157.332 -24.737  1.00 49.66      BS2
ATOM  34091  CB  ILE B 201     155.450 158.496 -24.142  1.00 72.92      BS2
ATOM  34092  CG2 ILE B 201     155.702 159.559 -25.206  1.00 72.92      BS2
ATOM  34093  CG1 ILE B 201     154.666 159.122 -22.992  1.00 72.92      BS2
ATOM  34094  CD1 ILE B 201     155.334 160.321 -22.377  1.00 72.92      BS2
ATOM  34095  C   ILE B 201     155.281 156.850 -26.020  1.00 49.66      BS2
ATOM  34096  O   ILE B 201     156.501 156.905 -26.180  1.00 49.66      BS2
ATOM  34097  N   PRO B 202     154.457 156.329 -26.939  1.00 41.92      BS2
ATOM  34098  CD  PRO B 202     152.992 156.272 -26.814  1.00 36.91      BS2
ATOM  34099  CA  PRO B 202     154.876 155.806 -28.238  1.00 41.92      BS2
ATOM  34100  CB  PRO B 202     153.588 155.197 -28.786  1.00 36.91      BS2
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ATOM  34101  CG  PRO B 202     152.556 156.107 -28.251  1.00 36.91      BS2
ATOM  34102  C   PRO B 202     155.446 156.895 -29.139  1.00 41.92      BS2
ATOM  34103  O   PRO B 202     154.736 157.469 -29.966  1.00 41.92      BS2
ATOM  34104  N   GLY B 203     156.735 157.169 -28.974  1.00 67.86      BS2
ATOM  34105  CA  GLY B 203     157.374 158.193 -29.774  1.00 67.86      BS2
ATOM  34106  C   GLY B 203     158.621 157.691 -30.461  1.00 67.86      BS2
ATOM  34107  O   GLY B 203     158.585 156.655 -31.108  1.00 67.86      BS2
ATOM  34108  N   ASN B 204     159.728 158.417 -30.322  1.00 45.60      BS2
ATOM  34109  CA  ASN B 204     160.976 158.012 -30.959  1.00 45.60      BS2
ATOM  34110  CB  ASN B 204     161.481 159.124 -31.865  1.00 80.31      BS2
ATOM  34111  CG  ASN B 204     161.328 158.781 -33.320  1.00 80.31      BS2
ATOM  34112  OD1 ASN B 204     160.218 158.545 -33.802  1.00 80.31      BS2
ATOM  34113  ND2 ASN B 204     162.445 158.738 -34.034  1.00 80.31      BS2
ATOM  34114  C   ASN B 204     162.092 157.593 -30.019  1.00 45.60      BS2
ATOM  34115  O   ASN B 204     162.701 158.437 -29.372  1.00 45.60      BS2
ATOM  34116  N   ASP B 205     162.360 156.287 -29.958  1.00110.51      BS2
ATOM  34117  CA  ASP B 205     163.423 155.775 -29.102  1.00110.51      BS2
ATOM  34118  CB  ASP B 205     163.757 154.288 -29.427  1.00 45.85      BS2
ATOM  34119  CG  ASP B 205     164.211 154.044 -30.888  1.00 45.85      BS2
ATOM  34120  OD1 ASP B 205     163.435 154.292 -31.832  1.00 45.85      BS2
ATOM  34121  OD2 ASP B 205     165.348 153.573 -31.095  1.00 45.85      BS2
ATOM  34122  C   ASP B 205     164.643 156.677 -29.279  1.00110.51      BS2
ATOM  34123  O   ASP B 205     165.175 157.209 -28.307  1.00110.51      BS2
ATOM  34124  N   ASP B 206     165.049 156.877 -30.528  1.00 96.31      BS2
ATOM  34125  CA  ASP B 206     166.184 157.729 -30.852  1.00 96.31      BS2
ATOM  34126  CB  ASP B 206     167.112 157.021 -31.830  1.00157.43      BS2
ATOM  34127  CG  ASP B 206     168.377 157.797 -32.082  1.00157.43      BS2
ATOM  34128  OD1 ASP B 206     169.282 157.743 -31.224  1.00157.43      BS2
ATOM  34129  OD2 ASP B 206     168.460 158.472 -33.128  1.00157.43      BS2
ATOM  34130  C   ASP B 206     165.645 158.999 -31.501  1.00 96.31      BS2
ATOM  34131  O   ASP B 206     164.484 159.028 -31.912  1.00 96.31      BS2
ATOM  34132  N   ALA B 207     166.494 160.029 -31.589  1.00 88.20      BS2
ATOM  34133  CA  ALA B 207     166.170 161.344 -32.180  1.00 88.20      BS2
ATOM  34134  CB  ALA B 207     164.923 161.266 -33.072  1.00104.94      BS2
ATOM  34135  C   ALA B 207     165.976 162.424 -31.119  1.00 88.20      BS2
ATOM  34136  O   ALA B 207     165.308 162.205 -30.114  1.00 88.20      BS2
ATOM  34137  N   ILE B 208     166.549 163.599 -31.360  1.00 71.01      BS2
ATOM  34138  CA  ILE B 208     166.455 164.700 -30.407  1.00 71.01      BS2
ATOM  34139  CB  ILE B 208     167.746 165.547 -30.423  1.00 78.24      BS2
ATOM  34140  CG2 ILE B 208     167.531 166.857 -29.672  1.00 78.24      BS2
ATOM  34141  CG1 ILE B 208     168.884 164.738 -29.796  1.00 78.24      BS2
ATOM  34142  CD1 ILE B 208     170.093 165.557 -29.410  1.00 78.24      BS2
ATOM  34143  C   ILE B 208     165.247 165.621 -30.564  1.00 71.01      BS2
ATOM  34144  O   ILE B 208     164.535 165.876 -29.590  1.00 71.01      BS2
ATOM  34145  N   ARG B 209     165.010 166.129 -31.769  1.00103.18      BS2
ATOM  34146  CA  ARG B 209     163.864 167.005 -31.963  1.00103.18      BS2
ATOM  34147  CB  ARG B 209     163.645 167.295 -33.452  1.00184.56      BS2
ATOM  34148  CG  ARG B 209     162.391 168.121 -33.749  1.00184.56      BS2
ATOM  34149  CD  ARG B 209     162.305 169.381 -32.884  1.00184.56      BS2
ATOM  34150  NE  ARG B 209     163.158 170.470 -33.359  1.00184.56      BS2
ATOM  34151  CZ  ARG B 209     162.854 171.270 -34.377  1.00184.56      BS2
ATOM  34152  NH1 ARG B 209     161.712 171.109 -35.033  1.00184.56      BS2
ATOM  34153  NH2 ARG B 209     163.689 172.236 -34.737  1.00184.56      BS2
ATOM  34154  C   ARG B 209     162.640 166.316 -31.364  1.00103.18      BS2
ATOM  34155  O   ARG B 209     161.656 166.960 -31.000  1.00103.18      BS2
ATOM  34156  N   SER B 210     162.726 164.994 -31.254  1.00 63.61      BS2
ATOM  34157  CA  SER B 210     161.659 164.172 -30.689  1.00 63.61      BS2
ATOM  34158  CB  SER B 210     161.804 162.736 -31.201  1.00 96.19      BS2
ATOM  34159  OG  SER B 210     160.921 161.851 -30.540  1.00 96.19      BS2
ATOM  34160  C   SER B 210     161.745 164.193 -29.166  1.00 63.61      BS2
ATOM  34161  O   SER B 210     160.978 164.874 -28.489  1.00 63.61      BS2
ATOM  34162  N   ILE B 211     162.697 163.432 -28.647  1.00 65.83      BS2
ATOM  34163  CA  ILE B 211     162.942 163.329 -27.220  1.00 65.83      BS2
ATOM  34164  CB  ILE B 211     164.377 162.873 -26.963  1.00 32.92      BS2
ATOM  34165  CG2 ILE B 211     164.715 163.037 -25.501  1.00 32.92      BS2
ATOM  34166  CG1 ILE B 211     164.545 161.427 -27.421  1.00 32.92      BS2
ATOM  34167  CD1 ILE B 211     165.975 160.959 -27.478  1.00 32.92      BS2
ATOM  34168  C   ILE B 211     162.735 164.650 -26.504  1.00 65.83      BS2
ATOM  34169  O   ILE B 211     161.832 164.786 -25.676  1.00 65.83      BS2
ATOM  34170  N   GLN B 212     163.592 165.615 -26.826  1.00 94.04      BS2
ATOM  34171  CA  GLN B 212     163.544 166.942 -26.223  1.00 94.04      BS2
ATOM  34172  CB  GLN B 212     164.306 167.937 -27.106  1.00120.83      BS2
ATOM  34173  CG  GLN B 212     164.469 169.337 -26.524  1.00120.83      BS2
ATOM  34174  CD  GLN B 212     163.167 170.114 -26.475  1.00120.83      BS2
ATOM  34175  OE1 GLN B 212     162.437 170.192 -27.468  1.00120.83      BS2
ATOM  34176  NE2 GLN B 212     162.873 170.704 -25.320  1.00120.83      BS2
ATOM  34177  C   GLN B 212     162.106 167.406 -26.023  1.00 94.04      BS2
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ATOM  34178  O   GLN B 212     161.728 167.834 -24.933  1.00 94.04       BS2
ATOM  34179  N   LEU B 213     161.302 167.308 -27.074  1.00 57.57       BS2
ATOM  34180  CA  LEU B 213     159.912 167.727 -26.997  1.00 57.57       BS2
ATOM  34181  CB  LEU B 213     159.208 167.410 -28.312  1.00 55.51       BS2
ATOM  34182  CG  LEU B 213     157.889 168.131 -28.590  1.00 55.51       BS2
ATOM  34183  CD1 LEU B 213     157.440 167.723 -29.976  1.00 55.51       BS2
ATOM  34184  CD2 LEU B 213     156.819 167.808 -27.549  1.00 55.51       BS2
ATOM  34185  C   LEU B 213     159.178 167.046 -25.843  1.00 57.57       BS2
ATOM  34186  O   LEU B 213     158.685 167.701 -24.928  1.00 57.57       BS2
ATOM  34187  N   ILE B 214     159.099 165.725 -25.900  1.00 58.18       BS2
ATOM  34188  CA  ILE B 214     158.419 164.963 -24.867  1.00 58.18       BS2
ATOM  34189  CB  ILE B 214     158.568 163.453 -25.125  1.00 38.43       BS2
ATOM  34190  CG2 ILE B 214     158.311 162.667 -23.840  1.00 38.43       BS2
ATOM  34191  CG1 ILE B 214     157.614 163.030 -26.232  1.00 38.43       BS2
ATOM  34192  CD1 ILE B 214     156.199 163.459 -25.990  1.00 38.43       BS2
ATOM  34193  C   ILE B 214     158.911 165.287 -23.457  1.00 58.18       BS2
ATOM  34194  O   ILE B 214     158.151 165.790 -22.630  1.00 58.18       BS2
ATOM  34195  N   LEU B 215     160.175 164.982 -23.185  1.00 70.65       BS2
ATOM  34196  CA  LEU B 215     160.756 165.250 -21.880  1.00 70.65       BS2
ATOM  34197  CB  LEU B 215     162.272 165.127 -21.945  1.00 85.84       BS2
ATOM  34198  CG  LEU B 215     162.884 163.796 -21.534  1.00 85.84       BS2
ATOM  34199  CD1 LEU B 215     164.402 163.862 -21.668  1.00 85.84       BS2
ATOM  34200  CD2 LEU B 215     162.501 163.504 -20.105  1.00 85.84       BS2
ATOM  34201  C   LEU B 215     160.400 166.637 -21.353  1.00 70.65       BS2
ATOM  34202  O   LEU B 215     159.878 166.768 -20.246  1.00 70.65       BS2
ATOM  34203  N   SER B 216     160.690 167.670 -22.144  1.00 48.66       BS2
ATOM  34204  CA  SER B 216     160.411 169.044 -21.743  1.00 48.66       BS2
ATOM  34205  CB  SER B 216     160.581 169.993 -22.930  1.00141.68       BS2
ATOM  34206  OG  SER B 216     159.658 169.690 -23.958  1.00141.68       BS2
ATOM  34207  C   SER B 216     159.003 169.163 -21.184  1.00 48.66       BS2
ATOM  34208  O   SER B 216     158.827 169.399 -19.983  1.00 48.66       BS2
ATOM  34209  N   ARG B 217     158.008 168.982 -22.053  1.00 47.10       BS2
ATOM  34210  CA  ARG B 217     156.606 169.070 -21.654  1.00 47.10       BS2
ATOM  34211  CB  ARG B 217     155.708 168.492 -22.746  1.00 84.75       BS2
ATOM  34212  CG  ARG B 217     155.845 169.202 -24.081  1.00 84.75       BS2
ATOM  34213  CD  ARG B 217     155.770 170.732 -23.930  1.00 84.75       BS2
ATOM  34214  NE  ARG B 217     155.728 171.431 -25.221  1.00 84.75       BS2
ATOM  34215  CZ  ARG B 217     154.627 171.611 -25.953  1.00 84.75       BS2
ATOM  34216  NH1 ARG B 217     153.453 171.153 -25.530  1.00 84.75       BS2
ATOM  34217  NH2 ARG B 217     154.701 172.242 -27.119  1.00 84.75       BS2
ATOM  34218  C   ARG B 217     156.350 168.352 -20.329  1.00 47.10       BS2
ATOM  34219  O   ARG B 217     155.619 168.850 -19.476  1.00 47.10       BS2
ATOM  34220  N   ALA B 218     156.964 167.187 -20.157  1.00 42.44       BS2
ATOM  34221  CA  ALA B 218     156.807 166.418 -18.935  1.00 42.44       BS2
ATOM  34222  CB  ALA B 218     157.472 165.063 -19.089  1.00145.39       BS2
ATOM  34223  C   ALA B 218     157.407 167.171 -17.749  1.00 42.44       BS2
ATOM  34224  O   ALA B 218     156.817 167.223 -16.667  1.00 42.44       BS2
ATOM  34225  N   VAL B 219     158.585 167.748 -17.938  1.00 69.06       BS2
ATOM  34226  CA  VAL B 219     159.192 168.492 -16.853  1.00 69.06       BS2
ATOM  34227  CB  VAL B 219     160.633 168.901 -17.172  1.00 61.46       BS2
ATOM  34228  CG1 VAL B 219     161.258 169.568 -15.957  1.00 61.46       BS2
ATOM  34229  CG2 VAL B 219     161.435 167.683 -17.576  1.00 61.46       BS2
ATOM  34230  C   VAL B 219     158.346 169.740 -16.663  1.00 69.06       BS2
ATOM  34231  O   VAL B 219     158.116 170.173 -15.531  1.00 69.06       BS2
ATOM  34232  N   ASP B 220     157.883 170.311 -17.778  1.00 63.96       BS2
ATOM  34233  CA  ASP B 220     157.031 171.502 -17.736  1.00 63.96       BS2
ATOM  34234  CB  ASP B 220     156.445 171.815 -19.122  1.00122.09       BS2
ATOM  34235  CG  ASP B 220     157.507 172.180 -20.149  1.00122.09       BS2
ATOM  34236  OD1 ASP B 220     157.139 172.549 -21.287  1.00122.09       BS2
ATOM  34237  OD2 ASP B 220     158.707 172.098 -19.826  1.00122.09       BS2
ATOM  34238  C   ASP B 220     155.895 171.146 -16.792  1.00 63.96       BS2
ATOM  34239  O   ASP B 220     155.702 171.764 -15.742  1.00 63.96       BS2
ATOM  34240  N   LEU B 221     155.160 170.119 -17.193  1.00 48.18       BS2
ATOM  34241  CA  LEU B 221     154.045 169.593 -16.431  1.00 48.18       BS2
ATOM  34242  CB  LEU B 221     153.533 168.324 -17.112  1.00 65.56       BS2
ATOM  34243  CG  LEU B 221     152.194 167.698 -16.726  1.00 65.56       BS2
ATOM  34244  CD1 LEU B 221     152.212 167.290 -15.267  1.00 65.56       BS2
ATOM  34245  CD2 LEU B 221     151.071 168.679 -17.028  1.00 65.56       BS2
ATOM  34246  C   LEU B 221     154.474 169.284 -14.992  1.00 48.18       BS2
ATOM  34247  O   LEU B 221     153.685 169.468 -14.066  1.00 48.18       BS2
ATOM  34248  N   ILE B 222     155.706 168.807 -14.793  1.00 33.61       BS2
ATOM  34249  CA  ILE B 222     156.153 168.511 -13.432  1.00 33.61       BS2
ATOM  34250  CB  ILE B 222     157.635 168.051 -13.342  1.00 35.32       BS2
ATOM  34251  CG2 ILE B 222     158.241 168.495 -12.009  1.00 35.32       BS2
ATOM  34252  CG1 ILE B 222     157.720 166.523 -13.418  1.00 35.32       BS2
ATOM  34253  CD1 ILE B 222     159.036 165.933 -12.873  1.00 35.32       BS2
ATOM  34254  C   ILE B 222     156.008 169.748 -12.576  1.00 33.61       BS2
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ATOM  34255  O   ILE B 222     155.299 169.734 -11.576  1.00 33.61       BS2
ATOM  34256  N   ILE B 223     156.677 170.823 -12.971  1.00 32.94       BS2
ATOM  34257  CA  ILE B 223     156.606 172.052 -12.200  1.00 32.94       BS2
ATOM  34258  CB  ILE B 223     157.685 173.054 -12.647  1.00109.92       BS2
ATOM  34259  CG2 ILE B 223     157.599 174.319 -11.807  1.00109.92       BS2
ATOM  34260  CG1 ILE B 223     159.070 172.423 -12.478  1.00109.92       BS2
ATOM  34261  CD1 ILE B 223     160.219 173.332 -12.852  1.00109.92       BS2
ATOM  34262  C   ILE B 223     155.225 172.683 -12.320  1.00 32.94       BS2
ATOM  34263  O   ILE B 223     154.708 173.253 -11.356  1.00 32.94       BS2
ATOM  34264  N   GLN B 224     154.620 172.565 -13.499  1.00 75.41       BS2
ATOM  34265  CA  GLN B 224     153.287 173.113 -13.728  1.00 75.41       BS2
ATOM  34266  CB  GLN B 224     152.824 172.800 -15.157  1.00161.33       BS2
ATOM  34267  CG  GLN B 224     151.466 173.389 -15.531  1.00161.33       BS2
ATOM  34268  CD  GLN B 224     151.024 173.012 -16.938  1.00161.33       BS2
ATOM  34269  OE1 GLN B 224     150.950 171.832 -17.286  1.00161.33       BS2
ATOM  34270  NE2 GLN B 224     150.722 174.017 -17.752  1.00161.33       BS2
ATOM  34271  C   GLN B 224     152.338 172.477 -12.713  1.00 75.41       BS2
ATOM  34272  O   GLN B 224     151.122 172.484 -12.883  1.00 75.41       BS2
ATOM  34273  N   ALA B 225     152.914 171.913 -11.659  1.00 86.95       BS2
ATOM  34274  CA  ALA B 225     152.152 171.271 -10.604  1.00 86.95       BS2
ATOM  34275  CB  ALA B 225     151.767 169.858 -11.021  1.00 77.83       BS2
ATOM  34276  C   ALA B 225     152.983 171.237  -9.326  1.00 86.95       BS2
ATOM  34277  O   ALA B 225     153.042 170.218  -8.639  1.00 86.95       BS2
ATOM  34278  N   ARG B 226     153.631 172.355  -9.017  1.00144.44       BS2
ATOM  34279  CA  ARG B 226     154.442 172.458  -7.811  1.00144.44       BS2
ATOM  34280  CB  ARG B 226     155.838 171.882  -8.052  1.00159.46       BS2
ATOM  34281  CG  ARG B 226     155.851 170.394  -8.350  1.00159.46       BS2
ATOM  34282  CD  ARG B 226     157.223 169.823  -8.101  1.00159.46       BS2
ATOM  34283  NE  ARG B 226     158.244 170.582  -8.810  1.00159.46       BS2
ATOM  34284  CZ  ARG B 226     159.542 170.513  -8.540  1.00159.46       BS2
ATOM  34285  NH1 ARG B 226     159.978 169.716  -7.572  1.00159.46       BS2
ATOM  34286  NH2 ARG B 226     160.403 171.245  -9.233  1.00159.46       BS2
ATOM  34287  C   ARG B 226     154.551 173.905  -7.331  1.00144.44       BS2
ATOM  34288  O   ARG B 226     155.356 174.220  -6.453  1.00144.44       BS2
ATOM  34289  N   GLY B 227     153.736 174.777  -7.918  1.00152.23       BS2
ATOM  34290  CA  GLY B 227     153.730 176.179  -7.534  1.00152.23       BS2
ATOM  34291  C   GLY B 227     154.932 176.988  -7.980  1.00152.23       BS2
ATOM  34292  O   GLY B 227     155.181 178.076  -7.458  1.00152.23       BS2
ATOM  34293  N   GLY B 228     155.677 176.465  -8.947  1.00175.51       BS2
ATOM  34294  CA  GLY B 228     156.844 177.175  -9.436  1.00175.51       BS2
ATOM  34295  C   GLY B 228     156.575 177.927 -10.725  1.00175.51       BS2
ATOM  34296  O   GLY B 228     157.153 178.992 -10.957  1.00175.51       BS2
ATOM  34297  N   VAL B 229     155.689 177.376 -11.554  1.00142.86       BS2
ATOM  34298  CA  VAL B 229     155.336 177.975 -12.838  1.00142.86       BS2
ATOM  34299  CB  VAL B 229     154.251 179.052 -12.675  1.00118.18       BS2
ATOM  34300  CG1 VAL B 229     153.824 179.570 -14.040  1.00118.18       BS2
ATOM  34301  CG2 VAL B 229     153.059 178.471 -11.932  1.00118.18       BS2
ATOM  34302  C   VAL B 229     156.587 178.594 -13.446  1.00142.86       BS2
ATOM  34303  O   VAL B 229     156.802 179.806 -13.371  1.00142.86       BS2
ATOM  34304  N   VAL B 230     157.410 177.740 -14.046  1.00155.73       BS2
ATOM  34305  CA  VAL B 230     158.668 178.161 -14.644  1.00155.73       BS2
ATOM  34306  CB  VAL B 230     159.780 177.120 -14.324  1.00130.22       BS2
ATOM  34307  CG1 VAL B 230     161.148 177.643 -14.746  1.00130.22       BS2
ATOM  34308  CG2 VAL B 230     159.773 176.803 -12.830  1.00130.22       BS2
ATOM  34309  C   VAL B 230     158.594 178.386 -16.156  1.00155.73       BS2
ATOM  34310  O   VAL B 230     157.644 177.971 -16.824  1.00155.73       BS2
ATOM  34311  N   GLU B 231     159.617 179.062 -16.670  1.00201.30       BS2
ATOM  34312  CA  GLU B 231     159.759 179.387 -18.084  1.00201.30       BS2
ATOM  34313  CB  GLU B 231     161.019 180.233 -18.271  1.00131.06       BS2
ATOM  34314  CG  GLU B 231     162.252 179.708 -17.522  1.00131.06       BS2
ATOM  34315  CD  GLU B 231     162.628 178.277 -17.888  1.00131.06       BS2
ATOM  34316  OE1 GLU B 231     162.712 177.972 -19.096  1.00131.06       BS2
ATOM  34317  OE2 GLU B 231     162.852 177.458 -16.968  1.00131.06       BS2
ATOM  34318  C   GLU B 231     159.849 178.141 -18.964  1.00201.30       BS2
ATOM  34319  O   GLU B 231     159.841 177.019 -18.460  1.00201.30       BS2
ATOM  34320  N   PRO B 232     159.929 178.325 -20.297  1.00201.30       BS2
ATOM  34321  CD  PRO B 232     159.728 179.589 -21.031  1.00171.03       BS2
ATOM  34322  CA  PRO B 232     160.028 177.201 -21.234  1.00201.30       BS2
ATOM  34323  CB  PRO B 232     160.230 177.898 -22.573  1.00171.03       BS2
ATOM  34324  CG  PRO B 232     159.366 179.106 -22.422  1.00171.03       BS2
ATOM  34325  C   PRO B 232     161.175 176.250 -20.881  1.00201.30       BS2
ATOM  34326  O   PRO B 232     161.035 175.422 -19.982  1.00201.30       BS2
ATOM  34327  N   SER B 233     162.304 176.361 -21.581  1.00148.95       BS2
ATOM  34328  CA  SER B 233     163.444 175.492 -21.292  1.00148.95       BS2
ATOM  34329  CB  SER B 233     163.067 174.026 -21.516  1.00111.30       BS2
ATOM  34330  OG  SER B 233     164.122 173.168 -21.119  1.00111.30       BS2
ATOM  34331  C   SER B 233     164.698 175.804 -22.098  1.00148.95       BS2
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ATOM  34332  O   SER B 233     164.627 176.099 -23.291  1.00148.95      BS2
ATOM  34333  N   PRO B 234     165.871 175.733 -21.445  1.00115.78      BS2
ATOM  34334  CD  PRO B 234     165.998 175.569 -19.983  1.00143.60      BS2
ATOM  34335  CA  PRO B 234     167.182 175.994 -22.049  1.00115.78      BS2
ATOM  34336  CB  PRO B 234     168.051 176.315 -20.839  1.00143.60      BS2
ATOM  34337  CG  PRO B 234     167.493 175.398 -19.800  1.00143.60      BS2
ATOM  34338  C   PRO B 234     167.725 174.808 -22.845  1.00115.78      BS2
ATOM  34339  O   PRO B 234     168.624 174.962 -23.671  1.00115.78      BS2
ATOM  34340  N   SER B 235     167.173 173.628 -22.584  1.00120.65      BS2
ATOM  34341  CA  SER B 235     167.592 172.403 -23.257  1.00120.65      BS2
ATOM  34342  CB  SER B 235     166.771 171.218 -22.750  1.00166.03      BS2
ATOM  34343  OG  SER B 235     165.419 171.333 -23.160  1.00166.03      BS2
ATOM  34344  C   SER B 235     167.433 172.499 -24.769  1.00120.65      BS2
ATOM  34345  O   SER B 235     168.324 172.097 -25.516  1.00120.65      BS2
ATOM  34346  N   TYR B 236     166.288 173.025 -25.202  1.00120.49      BS2
ATOM  34347  CA  TYR B 236     165.960 173.184 -26.620  1.00120.49      BS2
ATOM  34348  CB  TYR B 236     164.794 174.171 -26.764  1.00155.05      BS2
ATOM  34349  CG  TYR B 236     164.101 174.169 -28.115  1.00155.05      BS2
ATOM  34350  CD1 TYR B 236     162.978 174.968 -28.337  1.00155.05      BS2
ATOM  34351  CE1 TYR B 236     162.333 174.978 -29.571  1.00155.05      BS2
ATOM  34352  CD2 TYR B 236     164.562 173.377 -29.168  1.00155.05      BS2
ATOM  34353  CE2 TYR B 236     163.925 173.381 -30.406  1.00155.05      BS2
ATOM  34354  CZ  TYR B 236     162.812 174.183 -30.601  1.00155.05      BS2
ATOM  34355  OH  TYR B 236     162.180 174.196 -31.824  1.00155.05      BS2
ATOM  34356  C   TYR B 236     167.157 173.661 -27.446  1.00120.49      BS2
ATOM  34357  O   TYR B 236     167.321 173.278 -28.604  1.00120.49      BS2
ATOM  34358  N   ALA B 237     167.994 174.496 -26.844  1.00128.25      BS2
ATOM  34359  CA  ALA B 237     169.173 175.008 -27.526  1.00128.25      BS2
ATOM  34360  CB  ALA B 237     169.955 175.921 -26.593  1.00126.53      BS2
ATOM  34361  C   ALA B 237     170.061 173.859 -27.992  1.00128.25      BS2
ATOM  34362  O   ALA B 237     170.860 174.015 -28.915  1.00128.25      BS2
ATOM  34363  N   LEU B 238     169.913 172.705 -27.347  1.00112.08      BS2
ATOM  34364  CA  LEU B 238     170.705 171.526 -27.679  1.00112.08      BS2
ATOM  34365  CB  LEU B 238     170.826 170.616 -26.455  1.00145.16      BS2
ATOM  34366  CG  LEU B 238     171.449 171.265 -25.216  1.00145.16      BS2
ATOM  34367  CD1 LEU B 238     171.428 170.281 -24.065  1.00145.16      BS2
ATOM  34368  CD2 LEU B 238     172.873 171.704 -25.519  1.00145.16      BS2
ATOM  34369  C   LEU B 238     170.098 170.753 -28.841  1.00112.08      BS2
ATOM  34370  O   LEU B 238     170.545 169.656 -29.176  1.00112.08      BS2
ATOM  34371  N   VAL B 239     169.075 171.335 -29.452  1.00146.53      BS2
ATOM  34372  CA  VAL B 239     168.407 170.717 -30.586  1.00146.53      BS2
ATOM  34373  CB  VAL B 239     166.885 170.956 -30.504  1.00 93.86      BS2
ATOM  34374  CG1 VAL B 239     166.165 170.297 -31.666  1.00 93.86      BS2
ATOM  34375  CG2 VAL B 239     166.368 170.396 -29.199  1.00 93.86      BS2
ATOM  34376  C   VAL B 239     168.989 171.317 -31.866  1.00146.53      BS2
ATOM  34377  O   VAL B 239     168.490 171.098 -32.971  1.00146.53      BS2
ATOM  34378  N   GLN B 240     170.064 172.079 -31.697  1.00201.30      BS2
ATOM  34379  CA  GLN B 240     170.745 172.703 -32.820  1.00201.30      BS2
ATOM  34380  CB  GLN B 240     170.561 174.223 -32.791  1.00176.38      BS2
ATOM  34381  CG  GLN B 240     169.113 174.691 -32.853  1.00176.38      BS2
ATOM  34382  CD  GLN B 240     168.372 174.492 -31.544  1.00176.38      BS2
ATOM  34383  OE1 GLN B 240     168.744 175.056 -30.513  1.00176.38      BS2
ATOM  34384  NE2 GLN B 240     167.315 173.690 -31.580  1.00176.38      BS2
ATOM  34385  C   GLN B 240     172.228 172.365 -32.738  1.00201.30      BS2
ATOM  34386  O   GLN B 240     172.729 171.707 -33.675  1.00201.30      BS2
ATOM  34387  OXT GLN B 240     172.865 172.752 -31.734  1.00176.38      BS2
TER   34387       GLN B 240                                             BS2
ATOM  34388  C   GLY C   2     205.394 128.361   7.659  1.00 69.27      CS3
ATOM  34389  O   GLY C   2     206.541 128.277   7.235  1.00 69.27      CS3
ATOM  34390  N   GLY C   2     204.034 126.369   6.818  1.00 69.27      CS3
ATOM  34391  CA  GLY C   2     204.614 127.104   8.004  1.00 69.27      CS3
ATOM  34392  N   ASN C   3     204.780 129.525   7.858  1.00 61.66      CS3
ATOM  34393  CA  ASN C   3     205.426 130.793   7.547  1.00 61.66      CS3
ATOM  34394  CB  ASN C   3     205.247 131.089   6.060  1.00 76.64      CS3
ATOM  34395  CG  ASN C   3     203.835 130.817   5.573  1.00 76.64      CS3
ATOM  34396  OD1 ASN C   3     203.321 129.703   5.681  1.00 76.64      CS3
ATOM  34397  ND2 ASN C   3     203.207 131.838   5.025  1.00 76.64      CS3
ATOM  34398  C   ASN C   3     204.915 131.969   8.389  1.00 61.66      CS3
ATOM  34399  O   ASN C   3     204.382 131.763   9.480  1.00 61.66      CS3
ATOM  34400  N   LYS C   4     205.092 133.195   7.893  1.00 90.31      CS3
ATOM  34401  CA  LYS C   4     204.643 134.410   8.594  1.00 90.31      CS3
ATOM  34402  CB  LYS C   4     203.164 134.301   8.957  1.00 50.21      CS3
ATOM  34403  CG  LYS C   4     202.221 134.516   7.800  1.00 50.21      CS3
ATOM  34404  CD  LYS C   4     200.920 133.789   8.040  1.00 50.21      CS3
ATOM  34405  CE  LYS C   4     199.897 134.116   6.974  1.00 50.21      CS3
ATOM  34406  NZ  LYS C   4     198.737 133.180   7.033  1.00 50.21      CS3
ATOM  34407  C   LYS C   4     205.422 134.762   9.858  1.00 90.31      CS3
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ATOM  34408  O   LYS C   4     205.568 133.935  10.760  1.00 90.31      CS3
ATOM  34409  N   ILE C   5     205.905 136.001   9.923  1.00 92.52      CS3
ATOM  34410  CA  ILE C   5     206.666 136.480  11.077  1.00 92.52      CS3
ATOM  34411  CB  ILE C   5     207.226 137.889  10.857  1.00 45.41      CS3
ATOM  34412  CG2 ILE C   5     208.516 137.846  10.114  1.00 45.41      CS3
ATOM  34413  CG1 ILE C   5     206.187 138.737  10.133  1.00 45.41      CS3
ATOM  34414  CD1 ILE C   5     204.869 138.930  10.895  1.00 45.41      CS3
ATOM  34415  C   ILE C   5     205.770 136.619  12.282  1.00 92.52      CS3
ATOM  34416  O   ILE C   5     204.653 136.112  12.315  1.00 92.52      CS3
ATOM  34417  N   HIS C   6     206.282 137.351  13.262  1.00 42.09      CS3
ATOM  34418  CA  HIS C   6     205.549 137.663  14.476  1.00 42.09      CS3
ATOM  34419  CB  HIS C   6     206.436 137.459  15.685  1.00 64.81      CS3
ATOM  34420  CG  HIS C   6     205.736 137.706  16.972  1.00 64.81      CS3
ATOM  34421  CD2 HIS C   6     205.062 138.787  17.420  1.00 64.81      CS3
ATOM  34422  ND1 HIS C   6     205.669 136.765  17.976  1.00 64.81      CS3
ATOM  34423  CE1 HIS C   6     204.984 137.259  18.991  1.00 64.81      CS3
ATOM  34424  NE2 HIS C   6     204.604 138.485  18.678  1.00 64.81      CS3
ATOM  34425  C   HIS C   6     205.203 139.144  14.306  1.00 42.09      CS3
ATOM  34426  O   HIS C   6     206.084 139.994  14.294  1.00 42.09      CS3
ATOM  34427  N   PRO C   7     203.913 139.469  14.186  1.00 40.63      CS3
ATOM  34428  CD  PRO C   7     202.810 138.677  14.747  1.00 40.04      CS3
ATOM  34429  CA  PRO C   7     203.491 140.856  13.999  1.00 40.63      CS3
ATOM  34430  CB  PRO C   7     201.996 140.796  14.245  1.00 40.04      CS3
ATOM  34431  CG  PRO C   7     201.893 139.747  15.266  1.00 40.04      CS3
ATOM  34432  C   PRO C   7     204.197 141.813  14.924  1.00 40.63      CS3
ATOM  34433  O   PRO C   7     204.475 142.954  14.539  1.00 40.63      CS3
ATOM  34434  N   ILE C   8     204.494 141.352  16.138  1.00 32.35      CS3
ATOM  34435  CA  ILE C   8     205.197 142.190  17.110  1.00 32.35      CS3
ATOM  34436  CB  ILE C   8     205.082 141.634  18.540  1.00 82.84      CS3
ATOM  34437  CG2 ILE C   8     206.248 142.107  19.387  1.00 82.84      CS3
ATOM  34438  CG1 ILE C   8     203.753 142.068  19.153  1.00 82.84      CS3
ATOM  34439  CD1 ILE C   8     203.595 141.649  20.595  1.00 82.84      CS3
ATOM  34440  C   ILE C   8     206.667 142.301  16.729  1.00 32.35      CS3
ATOM  34441  O   ILE C   8     207.130 143.380  16.366  1.00 32.35      CS3
ATOM  34442  N   GLY C   9     207.393 141.187  16.799  1.00 67.14      CS3
ATOM  34443  CA  GLY C   9     208.800 141.206  16.434  1.00 67.14      CS3
ATOM  34444  C   GLY C   9     209.035 141.844  15.072  1.00 67.14      CS3
ATOM  34445  O   GLY C   9     210.081 142.451  14.827  1.00 67.14      CS3
ATOM  34446  N   PHE C  10     208.055 141.712  14.181  1.00 50.04      CS3
ATOM  34447  CA  PHE C  10     208.173 142.280  12.851  1.00 50.04      CS3
ATOM  34448  CB  PHE C  10     207.101 141.734  11.903  1.00 53.80      CS3
ATOM  34449  CG  PHE C  10     207.143 142.361  10.530  1.00 53.80      CS3
ATOM  34450  CD1 PHE C  10     208.298 142.294   9.754  1.00 53.80      CS3
ATOM  34451  CD2 PHE C  10     206.048 143.052  10.027  1.00 53.80      CS3
ATOM  34452  CE1 PHE C  10     208.363 142.910   8.502  1.00 53.80      CS3
ATOM  34453  CE2 PHE C  10     206.105 143.671   8.772  1.00 53.80      CS3
ATOM  34454  CZ  PHE C  10     207.267 143.599   8.010  1.00 53.80      CS3
ATOM  34455  C   PHE C  10     208.039 143.779  12.909  1.00 50.04      CS3
ATOM  34456  O   PHE C  10     208.671 144.490  12.133  1.00 50.04      CS3
ATOM  34457  N   ARG C  11     207.204 144.259  13.821  1.00 52.73      CS3
ATOM  34458  CA  ARG C  11     206.992 145.692  13.964  1.00 52.73      CS3
ATOM  34459  CB  ARG C  11     205.505 145.973  14.171  1.00 60.84      CS3
ATOM  34460  CG  ARG C  11     204.763 146.324  12.892  1.00 60.84      CS3
ATOM  34461  CD  ARG C  11     203.262 146.166  13.069  1.00 60.84      CS3
ATOM  34462  NE  ARG C  11     202.876 144.762  12.990  1.00 60.84      CS3
ATOM  34463  CZ  ARG C  11     202.596 144.133  11.855  1.00 60.84      CS3
ATOM  34464  NH1 ARG C  11     202.647 144.790  10.699  1.00 60.84      CS3
ATOM  34465  NH2 ARG C  11     202.288 142.842  11.877  1.00 60.84      CS3
ATOM  34466  C   ARG C  11     207.801 146.299  15.106  1.00 52.73      CS3
ATOM  34467  O   ARG C  11     207.899 147.519  15.215  1.00 52.73      CS3
ATOM  34468  N   LEU C  12     208.401 145.437  15.928  1.00 57.03      CS3
ATOM  34469  CA  LEU C  12     209.185 145.848  17.093  1.00 57.03      CS3
ATOM  34470  CB  LEU C  12     210.144 144.741  17.508  1.00 46.19      CS3
ATOM  34471  CG  LEU C  12     209.915 144.257  18.941  1.00 46.19      CS3
ATOM  34472  CD1 LEU C  12     210.895 143.142  19.293  1.00 46.19      CS3
ATOM  34473  CD2 LEU C  12     210.072 145.422  19.892  1.00 46.19      CS3
ATOM  34474  C   LEU C  12     209.964 147.136  16.946  1.00 57.03      CS3
ATOM  34475  O   LEU C  12     210.143 147.881  17.909  1.00 57.03      CS3
ATOM  34476  N   GLY C  13     210.448 147.403  15.745  1.00 71.68      CS3
ATOM  34477  CA  GLY C  13     211.185 148.634  15.557  1.00 71.68      CS3
ATOM  34478  C   GLY C  13     210.269 149.812  15.811  1.00 71.68      CS3
ATOM  34479  O   GLY C  13     210.586 150.710  16.588  1.00 71.68      CS3
ATOM  34480  N   ILE C  14     209.116 149.786  15.157  1.00 54.04      CS3
ATOM  34481  CA  ILE C  14     208.141 150.853  15.277  1.00 54.04      CS3
ATOM  34482  CB  ILE C  14     207.930 151.522  13.915  1.00 69.20      CS3
ATOM  34483  CG2 ILE C  14     207.017 152.736  14.042  1.00 69.20      CS3
ATOM  34484  CG1 ILE C  14     209.296 151.918  13.351  1.00 69.20      CS3
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ATOM  34485  CD1 ILE C  14     210.172 152.701  14.335  1.00 69.20      CS3
ATOM  34486  C   ILE C  14     206.811 150.346  15.804  1.00 54.04      CS3
ATOM  34487  O   ILE C  14     206.694 149.186  16.198  1.00 54.04      CS3
ATOM  34488  N   THR C  15     205.820 151.234  15.816  1.00 59.50      CS3
ATOM  34489  CA  THR C  15     204.477 150.919  16.288  1.00 59.50      CS3
ATOM  34490  CB  THR C  15     203.537 150.668  15.094  1.00 67.62      CS3
ATOM  34491  OG1 THR C  15     204.203 149.854  14.120  1.00 67.62      CS3
ATOM  34492  CG2 THR C  15     203.138 151.989  14.450  1.00 67.62      CS3
ATOM  34493  C   THR C  15     204.431 149.728  17.242  1.00 59.50      CS3
ATOM  34494  O   THR C  15     203.535 148.893  17.152  1.00 59.50      CS3
ATOM  34495  N   ARG C  16     205.401 149.674  18.158  1.00 59.50      CS3
ATOM  34496  CA  ARG C  16     205.508 148.600  19.142  1.00 59.50      CS3
ATOM  34497  CB  ARG C  16     205.433 147.241  18.451  1.00 69.25      CS3
ATOM  34498  CG  ARG C  16     205.076 146.108  19.376  1.00 69.25      CS3
ATOM  34499  CD  ARG C  16     203.625 146.211  19.750  1.00 69.25      CS3
ATOM  34500  NE  ARG C  16     203.207 145.129  20.625  1.00 69.25      CS3
ATOM  34501  CZ  ARG C  16     201.953 144.950  21.025  1.00 69.25      CS3
ATOM  34502  NH1 ARG C  16     201.009 145.792  20.616  1.00 69.25      CS3
ATOM  34503  NH2 ARG C  16     201.640 143.936  21.832  1.00 69.25      CS3
ATOM  34504  C   ARG C  16     206.846 148.691  19.870  1.00 59.50      CS3
ATOM  34505  O   ARG C  16     207.866 148.303  19.318  1.00 59.50      CS3
ATOM  34506  N   ASP C  17     206.853 149.193  21.099  1.00 71.50      CS3
ATOM  34507  CA  ASP C  17     208.102 149.298  21.848  1.00 71.50      CS3
ATOM  34508  CB  ASP C  17     208.011 150.427  22.872  1.00178.78      CS3
ATOM  34509  CG  ASP C  17     207.623 151.751  22.241  1.00178.78      CS3
ATOM  34510  OD1 ASP C  17     208.284 152.163  21.264  1.00178.78      CS3
ATOM  34511  OD2 ASP C  17     206.657 152.380  22.722  1.00178.78      CS3
ATOM  34512  C   ASP C  17     208.387 147.973  22.544  1.00 71.50      CS3
ATOM  34513  O   ASP C  17     207.520 147.102  22.595  1.00 71.50      CS3
ATOM  34514  N   TRP C  18     209.599 147.815  23.069  1.00118.09      CS3
ATOM  34515  CA  TRP C  18     209.976 146.576  23.752  1.00118.09      CS3
ATOM  34516  CB  TRP C  18     211.480 146.568  24.061  1.00 66.11      CS3
ATOM  34517  CG  TRP C  18     212.363 146.162  22.905  1.00 66.11      CS3
ATOM  34518  CD2 TRP C  18     212.563 146.879  21.682  1.00 66.11      CS3
ATOM  34519  CE2 TRP C  18     213.484 146.138  20.908  1.00 66.11      CS3
ATOM  34520  CE3 TRP C  18     212.051 148.075  21.163  1.00 66.11      CS3
ATOM  34521  CD1 TRP C  18     213.149 145.045  22.822  1.00 66.11      CS3
ATOM  34522  NE1 TRP C  18     213.827 145.025  21.627  1.00 66.11      CS3
ATOM  34523  CZ2 TRP C  18     213.905 146.556  19.648  1.00 66.11      CS3
ATOM  34524  CZ3 TRP C  18     212.470 148.487  19.908  1.00 66.11      CS3
ATOM  34525  CH2 TRP C  18     213.387 147.729  19.165  1.00 66.11      CS3
ATOM  34526  C   TRP C  18     209.194 146.356  25.048  1.00118.09      CS3
ATOM  34527  O   TRP C  18     208.763 147.310  25.694  1.00118.09      CS3
ATOM  34528  N   GLU C  19     209.018 145.089  25.416  1.00 68.05      CS3
ATOM  34529  CA  GLU C  19     208.298 144.711  26.633  1.00 68.05      CS3
ATOM  34530  CB  GLU C  19     207.461 143.448  26.388  1.00201.30      CS3
ATOM  34531  CG  GLU C  19     206.312 143.635  25.400  1.00201.30      CS3
ATOM  34532  CD  GLU C  19     205.450 142.391  25.252  1.00201.30      CS3
ATOM  34533  OE1 GLU C  19     204.977 141.865  26.282  1.00201.30      CS3
ATOM  34534  OE2 GLU C  19     205.239 141.942  24.105  1.00201.30      CS3
ATOM  34535  C   GLU C  19     209.296 144.457  27.756  1.00 68.05      CS3
ATOM  34536  O   GLU C  19     209.145 143.527  28.548  1.00 68.05      CS3
ATOM  34537  N   SER C  20     210.313 145.307  27.807  1.00 58.20      CS3
ATOM  34538  CA  SER C  20     211.388 145.224  28.789  1.00 58.20      CS3
ATOM  34539  CB  SER C  20     211.856 143.771  28.971  1.00 37.50      CS3
ATOM  34540  OG  SER C  20     212.826 143.650  29.997  1.00 37.50      CS3
ATOM  34541  C   SER C  20     212.497 146.050  28.158  1.00 58.20      CS3
ATOM  34542  O   SER C  20     213.318 145.527  27.401  1.00 58.20      CS3
ATOM  34543  N   ARG C  21     212.504 147.345  28.465  1.00101.20      CS3
ATOM  34544  CA  ARG C  21     213.481 148.271  27.904  1.00101.20      CS3
ATOM  34545  CB  ARG C  21     212.740 149.435  27.244  1.00179.62      CS3
ATOM  34546  CG  ARG C  21     211.704 150.071  28.150  1.00179.62      CS3
ATOM  34547  CD  ARG C  21     210.418 150.371  27.404  1.00179.62      CS3
ATOM  34548  NE  ARG C  21     209.395 150.904  28.298  1.00179.62      CS3
ATOM  34549  CZ  ARG C  21     208.152 151.186  27.927  1.00179.62      CS3
ATOM  34550  NH1 ARG C  21     207.771 150.986  26.673  1.00179.62      CS3
ATOM  34551  NH2 ARG C  21     207.289 151.672  28.810  1.00179.62      CS3
ATOM  34552  C   ARG C  21     214.516 148.809  28.888  1.00101.20      CS3
ATOM  34553  O   ARG C  21     214.451 149.964  29.307  1.00101.20      CS3
ATOM  34554  N   TRP C  22     215.476 147.962  29.243  1.00 56.67      CS3
ATOM  34555  CA  TRP C  22     216.542 148.343  30.157  1.00 56.67      CS3
ATOM  34556  CB  TRP C  22     216.474 147.511  31.426  1.00 67.91      CS3
ATOM  34557  CG  TRP C  22     216.245 146.078  31.166  1.00 67.91      CS3
ATOM  34558  CD2 TRP C  22     217.242 145.067  30.999  1.00 67.91      CS3
ATOM  34559  CE2 TRP C  22     216.566 143.851  30.776  1.00 67.91      CS3
ATOM  34560  CE3 TRP C  22     218.644 145.069  31.015  1.00 67.91      CS3
ATOM  34561  CD1 TRP C  22     215.041 145.459  31.037  1.00 67.91      CS3
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ATOM  34562  NE1 TRP C  22     215.223 144.120  30.806  1.00 67.91      CS3
ATOM  34563  CZ2 TRP C  22     217.242 142.641  30.570  1.00 67.91      CS3
ATOM  34564  CZ3 TRP C  22     219.318 143.868  30.808  1.00 67.91      CS3
ATOM  34565  CH2 TRP C  22     218.614 142.671  30.589  1.00 67.91      CS3
ATOM  34566  C   TRP C  22     217.911 148.155  29.517  1.00 56.67      CS3
ATOM  34567  O   TRP C  22     218.331 147.030  29.257  1.00 56.67      CS3
ATOM  34568  N   TYR C  23     218.602 149.264  29.268  1.00128.55      CS3
ATOM  34569  CA  TYR C  23     219.926 149.218  28.663  1.00128.55      CS3
ATOM  34570  CB  TYR C  23     220.353 150.610  28.200  1.00118.36      CS3
ATOM  34571  CG  TYR C  23     221.769 150.636  27.675  1.00118.36      CS3
ATOM  34572  CD1 TYR C  23     222.029 150.824  26.320  1.00118.36      CS3
ATOM  34573  CE1 TYR C  23     223.332 150.794  25.829  1.00118.36      CS3
ATOM  34574  CD2 TYR C  23     222.851 150.421  28.527  1.00118.36      CS3
ATOM  34575  CE2 TYR C  23     224.148 150.387  28.049  1.00118.36      CS3
ATOM  34576  CZ  TYR C  23     224.386 150.571  26.702  1.00118.36      CS3
ATOM  34577  OH  TYR C  23     225.678 150.512  26.234  1.00118.36      CS3
ATOM  34578  C   TYR C  23     220.976 148.679  29.629  1.00128.55      CS3
ATOM  34579  O   TYR C  23     221.114 149.172  30.744  1.00128.55      CS3
ATOM  34580  N   ALA C  24     221.737 147.688  29.182  1.00 67.21      CS3
ATOM  34581  CA  ALA C  24     222.783 147.090  30.001  1.00 67.21      CS3
ATOM  34582  CB  ALA C  24     222.326 145.746  30.540  1.00 55.80      CS3
ATOM  34583  C   ALA C  24     224.034 146.920  29.149  1.00 67.21      CS3
ATOM  34584  O   ALA C  24     224.327 147.773  28.306  1.00 67.21      CS3
ATOM  34585  N   GLY C  25     224.770 145.824  29.350  1.00 76.48      CS3
ATOM  34586  CA  GLY C  25     225.978 145.629  28.563  1.00 76.48      CS3
ATOM  34587  C   GLY C  25     226.797 144.356  28.706  1.00 76.48      CS3
ATOM  34588  O   GLY C  25     226.786 143.679  29.737  1.00 76.48      CS3
ATOM  34589  N   LYS C  26     227.525 144.067  27.629  1.00 77.70      CS3
ATOM  34590  CA  LYS C  26     228.412 142.913  27.475  1.00 77.70      CS3
ATOM  34591  CB  LYS C  26     229.819 143.397  27.097  1.00160.86      CS3
ATOM  34592  CG  LYS C  26     229.874 144.414  25.966  1.00160.86      CS3
ATOM  34593  CD  LYS C  26     229.488 143.808  24.629  1.00160.86      CS3
ATOM  34594  CE  LYS C  26     229.625 144.830  23.509  1.00160.86      CS3
ATOM  34595  NZ  LYS C  26     229.323 144.258  22.168  1.00160.86      CS3
ATOM  34596  C   LYS C  26     228.550 141.939  28.644  1.00 77.70      CS3
ATOM  34597  O   LYS C  26     228.082 140.802  28.578  1.00 77.70      CS3
ATOM  34598  N   LYS C  27     229.220 142.392  29.701  1.00 77.04      CS3
ATOM  34599  CA  LYS C  27     229.483 141.571  30.875  1.00 77.04      CS3
ATOM  34600  CB  LYS C  27     230.338 142.350  31.876  1.00198.58      CS3
ATOM  34601  CG  LYS C  27     231.729 142.710  31.384  1.00198.58      CS3
ATOM  34602  CD  LYS C  27     232.492 143.475  32.457  1.00198.58      CS3
ATOM  34603  CE  LYS C  27     233.886 143.866  31.998  1.00198.58      CS3
ATOM  34604  NZ  LYS C  27     234.609 144.645  33.045  1.00198.58      CS3
ATOM  34605  C   LYS C  27     228.253 141.048  31.589  1.00 77.04      CS3
ATOM  34606  O   LYS C  27     228.360 140.156  32.428  1.00 77.04      CS3
ATOM  34607  N   GLN C  28     227.084 141.586  31.258  1.00192.64      CS3
ATOM  34608  CA  GLN C  28     225.861 141.156  31.922  1.00192.64      CS3
ATOM  34609  CB  GLN C  28     225.371 142.272  32.834  1.00110.58      CS3
ATOM  34610  CG  GLN C  28     226.481 142.955  33.594  1.00110.58      CS3
ATOM  34611  CD  GLN C  28     226.016 144.230  34.249  1.00110.58      CS3
ATOM  34612  OE1 GLN C  28     225.282 144.202  35.237  1.00110.58      CS3
ATOM  34613  NE2 GLN C  28     226.426 145.363  33.690  1.00110.58      CS3
ATOM  34614  C   GLN C  28     224.739 140.758  30.971  1.00192.64      CS3
ATOM  34615  O   GLN C  28     224.798 139.714  30.318  1.00192.64      CS3
ATOM  34616  N   TYR C  29     223.716 141.605  30.907  1.00 72.29      CS3
ATOM  34617  CA  TYR C  29     222.552 141.367  30.062  1.00 72.29      CS3
ATOM  34618  CB  TYR C  29     222.943 141.293  28.587  1.00 39.61      CS3
ATOM  34619  CG  TYR C  29     221.854 141.747  27.643  1.00 39.61      CS3
ATOM  34620  CD1 TYR C  29     221.708 143.102  27.313  1.00 39.61      CS3
ATOM  34621  CE1 TYR C  29     220.699 143.535  26.429  1.00 39.61      CS3
ATOM  34622  CD2 TYR C  29     220.965 140.828  27.075  1.00 39.61      CS3
ATOM  34623  CE2 TYR C  29     219.949 141.242  26.197  1.00 39.61      CS3
ATOM  34624  CZ  TYR C  29     219.821 142.596  25.877  1.00 39.61      CS3
ATOM  34625  OH  TYR C  29     218.819 143.008  25.023  1.00 39.61      CS3
ATOM  34626  C   TYR C  29     221.903 140.055  30.465  1.00 72.29      CS3
ATOM  34627  O   TYR C  29     220.868 140.051  31.126  1.00 72.29      CS3
ATOM  34628  N   ARG C  30     222.525 138.944  30.078  1.00145.16      CS3
ATOM  34629  CA  ARG C  30     221.998 137.618  30.381  1.00145.16      CS3
ATOM  34630  CB  ARG C  30     223.025 136.542  30.036  1.00127.68      CS3
ATOM  34631  CG  ARG C  30     224.273 136.596  30.860  1.00127.68      CS3
ATOM  34632  CD  ARG C  30     225.162 135.411  30.551  1.00127.68      CS3
ATOM  34633  NE  ARG C  30     226.419 135.489  31.286  1.00127.68      CS3
ATOM  34634  CZ  ARG C  30     227.296 136.482  31.163  1.00127.68      CS3
ATOM  34635  NH1 ARG C  30     227.056 137.487  30.326  1.00127.68      CS3
ATOM  34636  NH2 ARG C  30     228.410 136.476  31.886  1.00127.68      CS3
ATOM  34637  C   ARG C  30     221.567 137.459  31.830  1.00145.16      CS3
ATOM  34638  O   ARG C  30     220.645 136.700  32.132  1.00145.16      CS3
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ATOM  34639  N   HIS C  31     222.233 138.173  32.728  1.00 76.34      CS3
ATOM  34640  CA  HIS C  31     221.886 138.098  34.138  1.00 76.34      CS3
ATOM  34641  CB  HIS C  31     223.017 138.675  34.975  1.00 84.59      CS3
ATOM  34642  CG  HIS C  31     224.305 137.929  34.826  1.00 84.59      CS3
ATOM  34643  CD2 HIS C  31     225.545 138.346  34.474  1.00 84.59      CS3
ATOM  34644  ND1 HIS C  31     224.407 136.573  35.058  1.00 84.59      CS3
ATOM  34645  CE1 HIS C  31     225.655 136.188  34.857  1.00 84.59      CS3
ATOM  34646  NE2 HIS C  31     226.366 137.244  34.502  1.00 84.59      CS3
ATOM  34647  C   HIS C  31     220.578 138.838  34.403  1.00 76.34      CS3
ATOM  34648  O   HIS C  31     219.651 138.280  34.991  1.00 76.34      CS3
ATOM  34649  N   LEU C  32     220.499 140.089  33.960  1.00 72.66      CS3
ATOM  34650  CA  LEU C  32     219.283 140.865  34.141  1.00 72.66      CS3
ATOM  34651  CB  LEU C  32     219.483 142.314  33.709  1.00 64.44      CS3
ATOM  34652  CG  LEU C  32     220.595 143.116  34.377  1.00 64.44      CS3
ATOM  34653  CD1 LEU C  32     221.940 142.559  33.948  1.00 64.44      CS3
ATOM  34654  CD2 LEU C  32     220.484 144.586  33.985  1.00 64.44      CS3
ATOM  34655  C   LEU C  32     218.184 140.240  33.291  1.00 72.66      CS3
ATOM  34656  O   LEU C  32     217.014 140.235  33.679  1.00 72.66      CS3
ATOM  34657  N   LEU C  33     218.562 139.724  32.125  1.00 69.58      CS3
ATOM  34658  CA  LEU C  33     217.603 139.087  31.231  1.00 69.58      CS3
ATOM  34659  CB  LEU C  33     218.296 138.534  29.991  1.00 66.35      CS3
ATOM  34660  CG  LEU C  33     217.380 137.853  28.971  1.00 66.35      CS3
ATOM  34661  CD1 LEU C  33     216.506 138.908  28.299  1.00 66.35      CS3
ATOM  34662  CD2 LEU C  33     218.220 137.109  27.939  1.00 66.35      CS3
ATOM  34663  C   LEU C  33     216.982 137.940  31.991  1.00 69.58      CS3
ATOM  34664  O   LEU C  33     215.760 137.780  32.011  1.00 69.58      CS3
ATOM  34665  N   LEU C  34     217.834 137.139  32.621  1.00 54.63      CS3
ATOM  34666  CA  LEU C  34     217.344 136.011  33.392  1.00 54.63      CS3
ATOM  34667  CB  LEU C  34     218.484 135.244  34.037  1.00 55.09      CS3
ATOM  34668  CG  LEU C  34     218.189 133.749  34.183  1.00 55.09      CS3
ATOM  34669  CD1 LEU C  34     219.149 133.174  35.199  1.00 55.09      CS3
ATOM  34670  CD2 LEU C  34     216.761 133.501  34.612  1.00 55.09      CS3
ATOM  34671  C   LEU C  34     216.446 136.539  34.487  1.00 54.63      CS3
ATOM  34672  O   LEU C  34     215.410 135.950  34.791  1.00 54.63      CS3
ATOM  34673  N   GLU C  35     216.859 137.651  35.086  1.00 79.16      CS3
ATOM  34674  CA  GLU C  35     216.078 138.270  36.145  1.00 79.16      CS3
ATOM  34675  CB  GLU C  35     216.758 139.559  36.615  1.00128.15      CS3
ATOM  34676  CG  GLU C  35     216.112 140.201  37.830  1.00128.15      CS3
ATOM  34677  CD  GLU C  35     216.990 141.259  38.471  1.00128.15      CS3
ATOM  34678  OE1 GLU C  35     218.108 140.917  38.916  1.00128.15      CS3
ATOM  34679  OE2 GLU C  35     216.563 142.432  38.534  1.00128.15      CS3
ATOM  34680  C   GLU C  35     214.681 138.564  35.600  1.00 79.16      CS3
ATOM  34681  O   GLU C  35     213.688 138.054  36.111  1.00 79.16      CS3
ATOM  34682  N   ASP C  36     214.610 139.372  34.549  1.00 44.22      CS3
ATOM  34683  CA  ASP C  36     213.330 139.707  33.948  1.00 44.22      CS3
ATOM  34684  CB  ASP C  36     213.535 140.559  32.698  1.00116.85      CS3
ATOM  34685  CG  ASP C  36     213.678 142.023  33.017  1.00116.85      CS3
ATOM  34686  OD1 ASP C  36     213.747 142.827  32.072  1.00116.85      CS3
ATOM  34687  OD2 ASP C  36     213.714 142.370  34.215  1.00116.85      CS3
ATOM  34688  C   ASP C  36     212.518 138.475  33.581  1.00 44.22      CS3
ATOM  34689  O   ASP C  36     211.302 138.422  33.805  1.00 44.22      CS3
ATOM  34690  N   GLN C  37     213.180 137.489  32.995  1.00112.40      CS3
ATOM  34691  CA  GLN C  37     212.472 136.283  32.616  1.00112.40      CS3
ATOM  34692  CB  GLN C  37     213.350 135.420  31.699  1.00 67.27      CS3
ATOM  34693  CG  GLN C  37     212.672 135.003  30.368  1.00 67.27      CS3
ATOM  34694  CD  GLN C  37     211.958 136.153  29.637  1.00 67.27      CS3
ATOM  34695  OE1 GLN C  37     212.506 137.248  29.475  1.00 67.27      CS3
ATOM  34696  NE2 GLN C  37     210.733 135.893  29.182  1.00 67.27      CS3
ATOM  34697  C   GLN C  37     212.082 135.557  33.904  1.00112.40      CS3
ATOM  34698  O   GLN C  37     211.074 134.850  33.949  1.00112.40      CS3
ATOM  34699  N   ARG C  38     212.876 135.750  34.956  1.00 86.93      CS3
ATOM  34700  CA  ARG C  38     212.574 135.148  36.251  1.00 86.93      CS3
ATOM  34701  CB  ARG C  38     213.748 135.317  37.222  1.00128.89      CS3
ATOM  34702  CG  ARG C  38     214.712 134.143  37.258  1.00128.89      CS3
ATOM  34703  CD  ARG C  38     214.097 132.946  37.977  1.00128.89      CS3
ATOM  34704  NE  ARG C  38     214.855 131.706  37.780  1.00128.89      CS3
ATOM  34705  CZ  ARG C  38     216.127 131.522  38.133  1.00128.89      CS3
ATOM  34706  NH1 ARG C  38     216.814 132.503  38.709  1.00128.89      CS3
ATOM  34707  NH2 ARG C  38     216.713 130.351  37.911  1.00128.89      CS3
ATOM  34708  C   ARG C  38     211.362 135.910  36.765  1.00 86.93      CS3
ATOM  34709  O   ARG C  38     210.378 135.314  37.212  1.00 86.93      CS3
ATOM  34710  N   ILE C  39     211.449 137.237  36.680  1.00 50.66      CS3
ATOM  34711  CA  ILE C  39     210.380 138.129  37.106  1.00 50.66      CS3
ATOM  34712  CB  ILE C  39     210.602 139.569  36.576  1.00 62.91      CS3
ATOM  34713  CG2 ILE C  39     209.343 140.392  36.731  1.00 62.91      CS3
ATOM  34714  CG1 ILE C  39     211.751 140.236  37.330  1.00 62.91      CS3
ATOM  34715  CD1 ILE C  39     212.100 141.615  36.800  1.00 62.91      CS3
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ATOM  34716  C    ILE C  39     209.066 137.602  36.563  1.00 50.66      CS3
ATOM  34717  O    ILE C  39     208.340 136.915  37.270  1.00 50.66      CS3
ATOM  34718  N    ARG C  40     208.773 137.902  35.301  1.00 50.81      CS3
ATOM  34719  CA   ARG C  40     207.529 137.453  34.679  1.00 50.81      CS3
ATOM  34720  CB   ARG C  40     207.661 137.460  33.155  1.00 66.17      CS3
ATOM  34721  CG   ARG C  40     208.006 138.820  32.580  1.00 66.17      CS3
ATOM  34722  CD   ARG C  40     207.875 138.840  31.067  1.00 66.17      CS3
ATOM  34723  NE   ARG C  40     208.336 140.098  30.485  1.00 66.17      CS3
ATOM  34724  CZ   ARG C  40     209.521 140.644  30.741  1.00 66.17      CS3
ATOM  34725  NH1  ARG C  40     210.360 140.044  31.575  1.00 66.17      CS3
ATOM  34726  NH2  ARG C  40     209.875 141.779  30.151  1.00 66.17      CS3
ATOM  34727  C    ARG C  40     207.142 136.057  35.156  1.00 50.81      CS3
ATOM  34728  O    ARG C  40     205.960 135.755  35.324  1.00 50.81      CS3
ATOM  34729  N    GLY C  41     208.154 135.222  35.384  1.00 81.27      CS3
ATOM  34730  CA   GLY C  41     207.922 133.867  35.850  1.00 81.27      CS3
ATOM  34731  C    GLY C  41     206.854 133.800  36.921  1.00 81.27      CS3
ATOM  34732  O    GLY C  41     206.100 132.829  36.997  1.00 81.27      CS3
ATOM  34733  N    LEU C  42     206.790 134.838  37.750  1.00 86.33      CS3
ATOM  34734  CA   LEU C  42     205.802 134.905  38.819  1.00 86.33      CS3
ATOM  34735  CB   LEU C  42     206.424 135.467  40.100  1.00101.61      CS3
ATOM  34736  CG   LEU C  42     207.573 134.681  40.741  1.00101.61      CS3
ATOM  34737  CD1  LEU C  42     208.018 135.418  41.996  1.00101.61      CS3
ATOM  34738  CD2  LEU C  42     207.137 133.251  41.073  1.00101.61      CS3
ATOM  34739  C    LEU C  42     204.630 135.777  38.405  1.00 86.33      CS3
ATOM  34740  O    LEU C  42     203.480 135.348  38.463  1.00 86.33      CS3
ATOM  34741  N    LEU C  43     204.923 137.001  37.983  1.00 76.63      CS3
ATOM  34742  CA   LEU C  43     203.877 137.921  37.566  1.00 76.63      CS3
ATOM  34743  CB   LEU C  43     204.501 139.161  36.930  1.00141.32      CS3
ATOM  34744  CG   LEU C  43     205.585 139.814  37.790  1.00141.32      CS3
ATOM  34745  CD1  LEU C  43     205.998 141.123  37.149  1.00141.32      CS3
ATOM  34746  CD2  LEU C  43     205.075 140.051  39.201  1.00141.32      CS3
ATOM  34747  C    LEU C  43     202.877 137.271  36.603  1.00 76.63      CS3
ATOM  34748  O    LEU C  43     201.753 137.759  36.429  1.00 76.63      CS3
ATOM  34749  N    GLU C  44     203.288 136.177  35.968  1.00 73.42      CS3
ATOM  34750  CA   GLU C  44     202.398 135.458  35.068  1.00 73.42      CS3
ATOM  34751  CB   GLU C  44     203.189 134.729  33.981  1.00201.18      CS3
ATOM  34752  CG   GLU C  44     203.807 135.651  32.944  1.00201.18      CS3
ATOM  34753  CD   GLU C  44     204.448 134.891  31.799  1.00201.18      CS3
ATOM  34754  OE1  GLU C  44     203.742 134.094  31.144  1.00201.18      CS3
ATOM  34755  OE2  GLU C  44     205.656 135.093  31.550  1.00201.18      CS3
ATOM  34756  C    GLU C  44     201.648 134.453  35.931  1.00 73.42      CS3
ATOM  34757  O    GLU C  44     200.423 134.497  36.021  1.00 73.42      CS3
ATOM  34758  N    LYS C  45     202.398 133.564  36.581  1.00105.56      CS3
ATOM  34759  CA   LYS C  45     201.823 132.545  37.458  1.00105.56      CS3
ATOM  34760  CB   LYS C  45     202.928 131.863  38.272  1.00169.20      CS3
ATOM  34761  CG   LYS C  45     203.546 130.640  37.611  1.00169.20      CS3
ATOM  34762  CD   LYS C  45     202.564 129.474  37.574  1.00169.20      CS3
ATOM  34763  CE   LYS C  45     203.203 128.214  37.001  1.00169.20      CS3
ATOM  34764  NZ   LYS C  45     202.256 127.060  36.983  1.00169.20      CS3
ATOM  34765  C    LYS C  45     200.788 133.121  38.420  1.00105.56      CS3
ATOM  34766  O    LYS C  45     199.692 132.578  38.569  1.00105.56      CS3
ATOM  34767  N    GLU C  46     201.140 134.223  39.072  1.00 98.39      CS3
ATOM  34768  CA   GLU C  46     200.248 134.858  40.028  1.00 98.39      CS3
ATOM  34769  CB   GLU C  46     201.025 135.856  40.889  1.00201.30      CS3
ATOM  34770  CG   GLU C  46     202.230 135.259  41.599  1.00201.30      CS3
ATOM  34771  CD   GLU C  46     201.868 134.073  42.476  1.00201.30      CS3
ATOM  34772  OE1  GLU C  46     201.040 134.240  43.396  1.00201.30      CS3
ATOM  34773  OE2  GLU C  46     202.414 132.972  42.246  1.00201.30      CS3
ATOM  34774  C    GLU C  46     199.083 135.569  39.359  1.00 98.39      CS3
ATOM  34775  O    GLU C  46     198.006 134.999  39.186  1.00 98.39      CS3
ATOM  34776  N    LEU C  47     199.322 136.816  38.975  1.00 68.65      CS3
ATOM  34777  CA   LEU C  47     198.316 137.668  38.351  1.00 68.65      CS3
ATOM  34778  CB   LEU C  47     198.958 139.000  37.972  1.00 82.64      CS3
ATOM  34779  CG   LEU C  47     199.162 139.956  39.140  1.00 82.64      CS3
ATOM  34780  CD1  LEU C  47     199.982 139.278  40.228  1.00 82.64      CS3
ATOM  34781  CD2  LEU C  47     199.839 141.213  38.640  1.00 82.64      CS3
ATOM  34782  C    LEU C  47     197.488 137.184  37.157  1.00 68.65      CS3
ATOM  34783  O    LEU C  47     197.106 138.004  36.316  1.00 68.65      CS3
ATOM  34784  N    TYR C  48     197.181 135.891  37.066  1.00134.13      CS3
ATOM  34785  CA   TYR C  48     196.378 135.432  35.932  1.00134.13      CS3
ATOM  34786  CB   TYR C  48     196.301 133.903  35.857  1.00128.65      CS3
ATOM  34787  CG   TYR C  48     195.335 133.421  34.781  1.00128.65      CS3
ATOM  34788  CD1  TYR C  48     195.131 134.165  33.609  1.00128.65      CS3
ATOM  34789  CE1  TYR C  48     194.235 133.746  32.626  1.00128.65      CS3
ATOM  34790  CD2  TYR C  48     194.615 132.236  34.936  1.00128.65      CS3
ATOM  34791  CE2  TYR C  48     193.716 131.806  33.952  1.00128.65      CS3
ATOM  34792  CZ   TYR C  48     193.532 132.568  32.803  1.00128.65      CS3
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ATOM  34793  OH  TYR C  48     192.643 132.155  31.838  1.00128.65      CS3
ATOM  34794  C   TYR C  48     194.967 135.993  36.008  1.00134.13      CS3
ATOM  34795  O   TYR C  48     194.508 136.671  35.085  1.00134.13      CS3
ATOM  34796  N   SER C  49     194.286 135.683  37.106  1.00101.34      CS3
ATOM  34797  CA  SER C  49     192.924 136.145  37.347  1.00101.34      CS3
ATOM  34798  CB  SER C  49     192.595 135.969  38.821  1.00 75.53      CS3
ATOM  34799  OG  SER C  49     193.575 136.625  39.604  1.00 75.53      CS3
ATOM  34800  C   SER C  49     192.782 137.618  36.973  1.00101.34      CS3
ATOM  34801  O   SER C  49     191.774 138.038  36.398  1.00101.34      CS3
ATOM  34802  N   ALA C  50     193.804 138.395  37.320  1.00 54.78      CS3
ATOM  34803  CA  ALA C  50     193.832 139.824  37.033  1.00 54.78      CS3
ATOM  34804  CB  ALA C  50     195.176 140.399  37.449  1.00 59.35      CS3
ATOM  34805  C   ALA C  50     193.602 140.075  35.553  1.00 54.78      CS3
ATOM  34806  O   ALA C  50     192.946 141.044  35.166  1.00 54.78      CS3
ATOM  34807  N   GLY C  51     194.145 139.180  34.733  1.00161.04      CS3
ATOM  34808  CA  GLY C  51     194.027 139.324  33.299  1.00161.04      CS3
ATOM  34809  C   GLY C  51     194.999 140.416  32.913  1.00161.04      CS3
ATOM  34810  O   GLY C  51     194.599 141.551  32.650  1.00161.04      CS3
ATOM  34811  N   LEU C  52     196.285 140.076  32.897  1.00 82.79      CS3
ATOM  34812  CA  LEU C  52     197.323 141.045  32.565  1.00 82.79      CS3
ATOM  34813  CB  LEU C  52     198.498 140.907  33.531  1.00 43.07      CS3
ATOM  34814  CG  LEU C  52     199.375 139.685  33.270  1.00 43.07      CS3
ATOM  34815  CD1 LEU C  52     200.469 139.592  34.339  1.00 43.07      CS3
ATOM  34816  CD2 LEU C  52     198.502 138.426  33.242  1.00 43.07      CS3
ATOM  34817  C   LEU C  52     197.844 140.915  31.139  1.00 82.79      CS3
ATOM  34818  O   LEU C  52     198.234 139.832  30.694  1.00 82.79      CS3
ATOM  34819  N   ALA C  53     197.846 142.035  30.426  1.00 83.37      CS3
ATOM  34820  CA  ALA C  53     198.343 142.055  29.064  1.00 83.37      CS3
ATOM  34821  CB  ALA C  53     197.894 143.327  28.356  1.00 73.50      CS3
ATOM  34822  C   ALA C  53     199.864 142.003  29.153  1.00 83.37      CS3
ATOM  34823  O   ALA C  53     200.436 140.951  29.437  1.00 83.37      CS3
ATOM  34824  N   ARG C  54     200.503 143.150  28.933  1.00 85.31      CS3
ATOM  34825  CA  ARG C  54     201.959 143.275  28.982  1.00 85.31      CS3
ATOM  34826  CB  ARG C  54     202.386 144.493  28.141  1.00143.70      CS3
ATOM  34827  CG  ARG C  54     203.880 144.796  28.138  1.00143.70      CS3
ATOM  34828  CD  ARG C  54     204.211 146.076  27.369  1.00143.70      CS3
ATOM  34829  NE  ARG C  54     204.350 145.866  25.928  1.00143.70      CS3
ATOM  34830  CZ  ARG C  54     204.746 146.804  25.069  1.00143.70      CS3
ATOM  34831  NH1 ARG C  54     205.040 148.023  25.503  1.00143.70      CS3
ATOM  34832  NH2 ARG C  54     204.859 146.523  23.776  1.00143.70      CS3
ATOM  34833  C   ARG C  54     202.475 143.408  30.427  1.00 85.31      CS3
ATOM  34834  O   ARG C  54     201.693 143.459  31.377  1.00 85.31      CS3
ATOM  34835  N   VAL C  55     203.797 143.447  30.579  1.00 71.11      CS3
ATOM  34836  CA  VAL C  55     204.451 143.586  31.881  1.00 71.11      CS3
ATOM  34837  CB  VAL C  55     204.727 142.193  32.512  1.00 51.44      CS3
ATOM  34838  CG1 VAL C  55     205.620 142.321  33.732  1.00 51.44      CS3
ATOM  34839  CG2 VAL C  55     203.412 141.542  32.911  1.00 51.44      CS3
ATOM  34840  C   VAL C  55     205.773 144.326  31.663  1.00 71.11      CS3
ATOM  34841  O   VAL C  55     206.845 143.758  31.856  1.00 71.11      CS3
ATOM  34842  N   ASP C  56     205.685 145.592  31.250  1.00 59.56      CS3
ATOM  34843  CA  ASP C  56     206.863 146.420  30.979  1.00 59.56      CS3
ATOM  34844  CB  ASP C  56     206.462 147.890  30.879  1.00146.81      CS3
ATOM  34845  CG  ASP C  56     205.522 148.159  29.734  1.00146.81      CS3
ATOM  34846  OD1 ASP C  56     205.915 147.916  28.576  1.00146.81      CS3
ATOM  34847  OD2 ASP C  56     204.390 148.617  29.992  1.00146.81      CS3
ATOM  34848  C   ASP C  56     207.962 146.298  32.026  1.00 59.56      CS3
ATOM  34849  O   ASP C  56     207.790 145.630  33.040  1.00 59.56      CS3
ATOM  34850  N   ILE C  57     209.090 146.949  31.768  1.00156.57      CS3
ATOM  34851  CA  ILE C  57     210.219 146.961  32.695  1.00156.57      CS3
ATOM  34852  CB  ILE C  57     210.976 145.613  32.765  1.00 28.62      CS3
ATOM  34853  CG2 ILE C  57     212.194 145.767  33.649  1.00 28.62      CS3
ATOM  34854  CG1 ILE C  57     210.114 144.524  33.391  1.00 28.62      CS3
ATOM  34855  CD1 ILE C  57     210.873 143.214  33.698  1.00 28.62      CS3
ATOM  34856  C   ILE C  57     211.249 148.000  32.278  1.00156.57      CS3
ATOM  34857  O   ILE C  57     211.583 148.115  31.099  1.00156.57      CS3
ATOM  34858  N   GLU C  58     211.747 148.755  33.252  1.00 42.10      CS3
ATOM  34859  CA  GLU C  58     212.779 149.755  33.007  1.00 42.10      CS3
ATOM  34860  CB  GLU C  58     212.206 151.168  33.133  1.00162.99      CS3
ATOM  34861  CG  GLU C  58     211.115 151.476  32.120  1.00162.99      CS3
ATOM  34862  CD  GLU C  58     210.668 152.925  32.162  1.00162.99      CS3
ATOM  34863  OE1 GLU C  58     210.271 153.394  33.251  1.00162.99      CS3
ATOM  34864  OE2 GLU C  58     210.711 153.592  31.105  1.00162.99      CS3
ATOM  34865  C   GLU C  58     213.829 149.501  34.081  1.00 42.10      CS3
ATOM  34866  O   GLU C  58     213.580 148.723  35.005  1.00 42.10      CS3
ATOM  34867  N   ARG C  59     215.001 150.118  33.964  1.00 98.33      CS3
ATOM  34868  CA  ARG C  59     216.032 149.922  34.977  1.00 98.33      CS3
ATOM  34869  CB  ARG C  59     216.697 148.560  34.826  1.00 68.00      CS3
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ATOM  34870  CG  ARG C  59     215.837 147.398  35.207  1.00 68.00      CS3
ATOM  34871  CD  ARG C  59     216.699 146.217  35.480  1.00 68.00      CS3
ATOM  34872  NE  ARG C  59     215.930 144.988  35.523  1.00 68.00      CS3
ATOM  34873  CZ  ARG C  59     216.425 143.827  35.936  1.00 68.00      CS3
ATOM  34874  NH1 ARG C  59     217.689 143.758  36.342  1.00 68.00      CS3
ATOM  34875  NH2 ARG C  59     215.662 142.737  35.945  1.00 68.00      CS3
ATOM  34876  C   ARG C  59     217.123 150.974  35.019  1.00 98.33      CS3
ATOM  34877  O   ARG C  59     217.263 151.790  34.101  1.00 98.33      CS3
ATOM  34878  N   ALA C  60     217.893 150.925  36.106  1.00 93.36      CS3
ATOM  34879  CA  ALA C  60     219.010 151.833  36.357  1.00 93.36      CS3
ATOM  34880  CB  ALA C  60     218.542 153.288  36.308  1.00 81.05      CS3
ATOM  34881  C   ALA C  60     219.609 151.521  37.725  1.00 93.36      CS3
ATOM  34882  O   ALA C  60     219.450 152.290  38.675  1.00 93.36      CS3
ATOM  34883  N   ALA C  61     220.287 150.380  37.814  1.00185.83      CS3
ATOM  34884  CA  ALA C  61     220.931 149.934  39.047  1.00185.83      CS3
ATOM  34885  CB  ALA C  61     221.843 151.032  39.594  1.00128.55      CS3
ATOM  34886  C   ALA C  61     219.944 149.500  40.123  1.00185.83      CS3
ATOM  34887  O   ALA C  61     219.112 150.286  40.574  1.00185.83      CS3
ATOM  34888  N   ASP C  62     220.059 148.236  40.520  1.00186.97      CS3
ATOM  34889  CA  ASP C  62     219.224 147.623  41.552  1.00186.97      CS3
ATOM  34890  CB  ASP C  62     220.061 147.412  42.816  1.00201.30      CS3
ATOM  34891  CG  ASP C  62     221.359 146.678  42.536  1.00201.30      CS3
ATOM  34892  OD1 ASP C  62     221.301 145.538  42.028  1.00201.30      CS3
ATOM  34893  OD2 ASP C  62     222.437 147.243  42.822  1.00201.30      CS3
ATOM  34894  C   ASP C  62     217.939 148.374  41.909  1.00186.97      CS3
ATOM  34895  O   ASP C  62     217.819 148.944  42.996  1.00186.97      CS3
ATOM  34896  N   ASN C  63     216.981 148.359  40.987  1.00131.84      CS3
ATOM  34897  CA  ASN C  63     215.688 149.012  41.170  1.00131.84      CS3
ATOM  34898  CB  ASN C  63     215.867 150.487  41.544  1.00185.23      CS3
ATOM  34899  CG  ASN C  63     215.444 150.780  42.975  1.00185.23      CS3
ATOM  34900  OD1 ASN C  63     214.273 150.640  43.331  1.00185.23      CS3
ATOM  34901  ND2 ASN C  63     216.400 151.185  43.803  1.00185.23      CS3
ATOM  34902  C   ASN C  63     214.903 148.894  39.873  1.00131.84      CS3
ATOM  34903  O   ASN C  63     214.832 149.834  39.081  1.00131.84      CS3
ATOM  34904  N   VAL C  64     214.316 147.721  39.669  1.00 78.76      CS3
ATOM  34905  CA  VAL C  64     213.548 147.438  38.468  1.00 78.76      CS3
ATOM  34906  CB  VAL C  64     213.488 145.924  38.220  1.00167.04      CS3
ATOM  34907  CG1 VAL C  64     213.025 145.651  36.801  1.00167.04      CS3
ATOM  34908  CG2 VAL C  64     214.857 145.303  38.475  1.00167.04      CS3
ATOM  34909  C   VAL C  64     212.130 147.995  38.552  1.00 78.76      CS3
ATOM  34910  O   VAL C  64     211.516 147.985  39.617  1.00 78.76      CS3
ATOM  34911  N   ALA C  65     211.616 148.464  37.418  1.00132.15      CS3
ATOM  34912  CA  ALA C  65     210.280 149.050  37.347  1.00132.15      CS3
ATOM  34913  CB  ALA C  65     210.121 149.808  36.033  1.00 89.85      CS3
ATOM  34914  C   ALA C  65     209.104 148.088  37.532  1.00132.15      CS3
ATOM  34915  O   ALA C  65     208.195 148.379  38.308  1.00132.15      CS3
ATOM  34916  N   VAL C  66     209.110 146.958  36.826  1.00105.45      CS3
ATOM  34917  CA  VAL C  66     208.016 145.987  36.929  1.00105.45      CS3
ATOM  34918  CB  VAL C  66     208.096 145.173  38.246  1.00 67.50      CS3
ATOM  34919  CG1 VAL C  66     206.904 144.254  38.358  1.00 67.50      CS3
ATOM  34920  CG2 VAL C  66     209.370 144.359  38.286  1.00 67.50      CS3
ATOM  34921  C   VAL C  66     206.697 146.755  36.903  1.00105.45      CS3
ATOM  34922  O   VAL C  66     206.115 147.041  37.945  1.00105.45      CS3
ATOM  34923  N   THR C  67     206.226 147.079  35.707  1.00 59.87      CS3
ATOM  34924  CA  THR C  67     205.001 147.855  35.548  1.00 59.87      CS3
ATOM  34925  CB  THR C  67     205.240 148.988  34.544  1.00 63.87      CS3
ATOM  34926  OG1 THR C  67     206.503 149.608  34.823  1.00 63.87      CS3
ATOM  34927  CG2 THR C  67     204.137 150.022  34.634  1.00 63.87      CS3
ATOM  34928  C   THR C  67     203.760 147.071  35.104  1.00 59.87      CS3
ATOM  34929  O   THR C  67     202.987 147.563  34.282  1.00 59.87      CS3
ATOM  34930  N   VAL C  68     203.570 145.870  35.656  1.00 42.70      CS3
ATOM  34931  CA  VAL C  68     202.428 144.993  35.341  1.00 42.70      CS3
ATOM  34932  CB  VAL C  68     202.126 144.056  36.517  1.00 41.41      CS3
ATOM  34933  CG1 VAL C  68     200.927 143.192  36.180  1.00 41.41      CS3
ATOM  34934  CG2 VAL C  68     203.340 143.204  36.841  1.00 41.41      CS3
ATOM  34935  C   VAL C  68     201.084 145.647  34.982  1.00 42.70      CS3
ATOM  34936  O   VAL C  68     200.467 146.292  35.826  1.00 42.70      CS3
ATOM  34937  N   HIS C  69     200.618 145.447  33.748  1.00 89.14      CS3
ATOM  34938  CA  HIS C  69     199.328 145.998  33.313  1.00 89.14      CS3
ATOM  34939  CB  HIS C  69     199.363 146.403  31.842  1.00 69.45      CS3
ATOM  34940  CG  HIS C  69     200.365 147.465  31.532  1.00 69.45      CS3
ATOM  34941  CD2 HIS C  69     201.650 147.619  31.926  1.00 69.45      CS3
ATOM  34942  ND1 HIS C  69     200.084 148.534  30.710  1.00 69.45      CS3
ATOM  34943  CE1 HIS C  69     201.153 149.304  30.612  1.00 69.45      CS3
ATOM  34944  NE2 HIS C  69     202.118 148.771  31.341  1.00 69.45      CS3
ATOM  34945  C   HIS C  69     198.227 144.959  33.494  1.00 89.14      CS3
ATOM  34946  O   HIS C  69     198.414 143.790  33.150  1.00 89.14      CS3
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ATOM  34947  N   VAL C  70     197.077 145.385  34.014  1.00100.33      CS3
ATOM  34948  CA  VAL C  70     195.962 144.468  34.241  1.00100.33      CS3
ATOM  34949  CB  VAL C  70     195.944 143.984  35.700  1.00 74.18      CS3
ATOM  34950  CG1 VAL C  70     194.782 143.046  35.915  1.00 74.18      CS3
ATOM  34951  CG2 VAL C  70     197.243 143.283  36.031  1.00 74.18      CS3
ATOM  34952  C   VAL C  70     194.585 145.053  33.926  1.00100.33      CS3
ATOM  34953  O   VAL C  70     194.369 146.256  34.042  1.00100.33      CS3
ATOM  34954  N   ALA C  71     193.657 144.185  33.528  1.00111.64      CS3
ATOM  34955  CA  ALA C  71     192.292 144.597  33.214  1.00111.64      CS3
ATOM  34956  CB  ALA C  71     191.631 143.563  32.319  1.00126.46      CS3
ATOM  34957  C   ALA C  71     191.492 144.755  34.509  1.00111.64      CS3
ATOM  34958  O   ALA C  71     190.587 145.593  34.598  1.00111.64      CS3
ATOM  34959  N   LYS C  72     191.831 143.933  35.502  1.00 73.28      CS3
ATOM  34960  CA  LYS C  72     191.186 143.964  36.815  1.00 73.28      CS3
ATOM  34961  CB  LYS C  72     190.399 142.672  37.046  1.00171.36      CS3
ATOM  34962  CG  LYS C  72     189.369 142.392  35.959  1.00171.36      CS3
ATOM  34963  CD  LYS C  72     188.409 141.282  36.356  1.00171.36      CS3
ATOM  34964  CE  LYS C  72     187.519 141.712  37.512  1.00171.36      CS3
ATOM  34965  NZ  LYS C  72     186.551 140.652  37.903  1.00171.36      CS3
ATOM  34966  C   LYS C  72     192.259 144.143  37.898  1.00 73.28      CS3
ATOM  34967  O   LYS C  72     192.597 143.204  38.626  1.00 73.28      CS3
ATOM  34968  N   PRO C  73     192.800 145.371  38.013  1.00103.54      CS3
ATOM  34969  CD  PRO C  73     192.267 146.570  37.342  1.00 58.23      CS3
ATOM  34970  CA  PRO C  73     193.840 145.746  38.977  1.00103.54      CS3
ATOM  34971  CB  PRO C  73     193.968 147.255  38.778  1.00 58.23      CS3
ATOM  34972  CG  PRO C  73     192.598 147.652  38.325  1.00 58.23      CS3
ATOM  34973  C   PRO C  73     193.496 145.384  40.408  1.00103.54      CS3
ATOM  34974  O   PRO C  73     194.374 145.042  41.201  1.00103.54      CS3
ATOM  34975  N   GLY C  74     192.212 145.473  40.735  1.00 89.51      CS3
ATOM  34976  CA  GLY C  74     191.786 145.141  42.076  1.00 89.51      CS3
ATOM  34977  C   GLY C  74     192.395 143.816  42.470  1.00 89.51      CS3
ATOM  34978  O   GLY C  74     193.080 143.701  43.483  1.00 89.51      CS3
ATOM  34979  N   VAL C  75     192.160 142.813  41.637  1.00 83.21      CS3
ATOM  34980  CA  VAL C  75     192.674 141.479  41.885  1.00 83.21      CS3
ATOM  34981  CB  VAL C  75     192.483 140.589  40.641  1.00 62.85      CS3
ATOM  34982  CG1 VAL C  75     192.639 139.133  41.022  1.00 62.85      CS3
ATOM  34983  CG2 VAL C  75     191.110 140.835  40.018  1.00 62.85      CS3
ATOM  34984  C   VAL C  75     194.158 141.544  42.248  1.00 83.21      CS3
ATOM  34985  O   VAL C  75     194.661 140.724  43.025  1.00 83.21      CS3
ATOM  34986  N   VAL C  76     194.848 142.532  41.685  1.00113.59      CS3
ATOM  34987  CA  VAL C  76     196.273 142.720  41.939  1.00113.59      CS3
ATOM  34988  CB  VAL C  76     196.936 143.587  40.837  1.00 98.09      CS3
ATOM  34989  CG1 VAL C  76     198.425 143.732  41.105  1.00 98.09      CS3
ATOM  34990  CG2 VAL C  76     196.713 142.961  39.480  1.00 98.09      CS3
ATOM  34991  C   VAL C  76     196.493 143.405  43.283  1.00113.59      CS3
ATOM  34992  O   VAL C  76     196.937 142.774  44.246  1.00113.59      CS3
ATOM  34993  N   ILE C  77     196.175 144.697  43.333  1.00 77.72      CS3
ATOM  34994  CA  ILE C  77     196.340 145.502  44.540  1.00 77.72      CS3
ATOM  34995  CB  ILE C  77     195.504 146.801  44.462  1.00147.69      CS3
ATOM  34996  CG2 ILE C  77     195.505 147.508  45.811  1.00147.69      CS3
ATOM  34997  CG1 ILE C  77     196.073 147.723  43.382  1.00147.69      CS3
ATOM  34998  CD1 ILE C  77     197.487 148.203  43.663  1.00147.69      CS3
ATOM  34999  C   ILE C  77     195.953 144.758  45.805  1.00 77.72      CS3
ATOM  35000  O   ILE C  77     196.655 144.832  46.806  1.00 77.72      CS3
ATOM  35001  N   GLY C  78     194.839 144.036  45.752  1.00184.38      CS3
ATOM  35002  CA  GLY C  78     194.378 143.302  46.916  1.00184.38      CS3
ATOM  35003  C   GLY C  78     193.469 144.187  47.746  1.00184.38      CS3
ATOM  35004  O   GLY C  78     193.233 145.341  47.384  1.00184.38      CS3
ATOM  35005  N   ARG C  79     192.957 143.661  48.855  1.00147.04      CS3
ATOM  35006  CA  ARG C  79     192.070 144.438  49.717  1.00147.04      CS3
ATOM  35007  CB  ARG C  79     191.373 143.523  50.729  1.00197.90      CS3
ATOM  35008  CG  ARG C  79     192.304 142.674  51.573  1.00197.90      CS3
ATOM  35009  CD  ARG C  79     191.520 141.582  52.274  1.00197.90      CS3
ATOM  35010  NE  ARG C  79     192.380 140.689  53.042  1.00197.90      CS3
ATOM  35011  CZ  ARG C  79     191.974 139.539  53.570  1.00197.90      CS3
ATOM  35012  NH1 ARG C  79     190.718 139.139  53.411  1.00197.90      CS3
ATOM  35013  NH2 ARG C  79     192.822 138.788  54.259  1.00197.90      CS3
ATOM  35014  C   ARG C  79     192.832 145.544  50.438  1.00147.04      CS3
ATOM  35015  O   ARG C  79     193.607 145.287  51.362  1.00147.04      CS3
ATOM  35016  N   GLY C  80     192.601 146.778  49.997  1.00171.72      CS3
ATOM  35017  CA  GLY C  80     193.275 147.918  50.587  1.00171.72      CS3
ATOM  35018  C   GLY C  80     194.722 147.955  50.143  1.00171.72      CS3
ATOM  35019  O   GLY C  80     195.241 149.004  49.759  1.00171.72      CS3
ATOM  35020  N   GLY C  81     195.369 146.795  50.189  1.00111.03      CS3
ATOM  35021  CA  GLY C  81     196.761 146.687  49.792  1.00111.03      CS3
ATOM  35022  C   GLY C  81     197.351 145.401  50.333  1.00111.03      CS3
ATOM  35023  O   GLY C  81     198.536 145.328  50.657  1.00111.03      CS3
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ATOM  35024  N   GLU C  82     196.508 144.378  50.424  1.00199.12      CS3
ATOM  35025  CA  GLU C  82     196.922 143.082  50.938  1.00199.12      CS3
ATOM  35026  CB  GLU C  82     195.689 142.274  51.358  1.00201.30      CS3
ATOM  35027  CG  GLU C  82     195.983 140.829  51.742  1.00201.30      CS3
ATOM  35028  CD  GLU C  82     197.097 140.710  52.763  1.00201.30      CS3
ATOM  35029  OE1 GLU C  82     196.984 141.325  53.844  1.00201.30      CS3
ATOM  35030  OE2 GLU C  82     198.085 139.998  52.484  1.00201.30      CS3
ATOM  35031  C   GLU C  82     197.772 142.259  49.974  1.00199.12      CS3
ATOM  35032  O   GLU C  82     198.700 141.575  50.403  1.00199.12      CS3
ATOM  35033  N   ARG C  83     197.473 142.316  48.678  1.00133.70      CS3
ATOM  35034  CA  ARG C  83     198.249 141.532  47.730  1.00133.70      CS3
ATOM  35035  CB  ARG C  83     197.357 140.951  46.633  1.00121.92      CS3
ATOM  35036  CG  ARG C  83     198.077 139.855  45.865  1.00121.92      CS3
ATOM  35037  CD  ARG C  83     197.265 139.267  44.736  1.00121.92      CS3
ATOM  35038  NE  ARG C  83     197.987 138.153  44.130  1.00121.92      CS3
ATOM  35039  CZ  ARG C  83     197.589 137.512  43.038  1.00121.92      CS3
ATOM  35040  NH1 ARG C  83     196.470 137.874  42.427  1.00121.92      CS3
ATOM  35041  NH2 ARG C  83     198.313 136.514  42.553  1.00121.92      CS3
ATOM  35042  C   ARG C  83     199.430 142.256  47.086  1.00133.70      CS3
ATOM  35043  O   ARG C  83     200.528 141.704  47.038  1.00133.70      CS3
ATOM  35044  N   ILE C  84     199.219 143.472  46.583  1.00 94.94      CS3
ATOM  35045  CA  ILE C  84     200.312 144.227  45.962  1.00 94.94      CS3
ATOM  35046  CB  ILE C  84     199.874 145.675  45.629  1.00 84.24      CS3
ATOM  35047  CG2 ILE C  84     199.224 146.311  46.839  1.00 84.24      CS3
ATOM  35048  CG1 ILE C  84     201.078 146.496  45.155  1.00 84.24      CS3
ATOM  35049  CD1 ILE C  84     200.757 147.953  44.844  1.00 84.24      CS3
ATOM  35050  C   ILE C  84     201.516 144.253  46.912  1.00 94.94      CS3
ATOM  35051  O   ILE C  84     202.637 144.573  46.516  1.00 94.94      CS3
ATOM  35052  N   ARG C  85     201.259 143.896  48.168  1.00 81.66      CS3
ATOM  35053  CA  ARG C  85     202.273 143.836  49.215  1.00 81.66      CS3
ATOM  35054  CB  ARG C  85     201.610 144.096  50.575  1.00201.30      CS3
ATOM  35055  CG  ARG C  85     202.266 143.413  51.766  1.00201.30      CS3
ATOM  35056  CD  ARG C  85     203.710 143.831  51.931  1.00201.30      CS3
ATOM  35057  NE  ARG C  85     204.359 143.094  53.009  1.00201.30      CS3
ATOM  35058  CZ  ARG C  85     205.658 143.163  53.278  1.00201.30      CS3
ATOM  35059  NH1 ARG C  85     206.449 143.936  52.545  1.00201.30      CS3
ATOM  35060  NH2 ARG C  85     206.166 142.460  54.281  1.00201.30      CS3
ATOM  35061  C   ARG C  85     202.963 142.467  49.207  1.00 81.66      CS3
ATOM  35062  O   ARG C  85     204.163 142.360  49.464  1.00 81.66      CS3
ATOM  35063  N   VAL C  86     202.193 141.422  48.922  1.00114.34      CS3
ATOM  35064  CA  VAL C  86     202.728 140.067  48.864  1.00114.34      CS3
ATOM  35065  CB  VAL C  86     201.592 139.021  48.722  1.00191.30      CS3
ATOM  35066  CG1 VAL C  86     202.175 137.620  48.667  1.00191.30      CS3
ATOM  35067  CG2 VAL C  86     200.620 139.142  49.886  1.00191.30      CS3
ATOM  35068  C   VAL C  86     203.648 139.973  47.647  1.00114.34      CS3
ATOM  35069  O   VAL C  86     204.754 139.431  47.719  1.00114.34      CS3
ATOM  35070  N   LEU C  87     203.177 140.508  46.525  1.00114.68      CS3
ATOM  35071  CA  LEU C  87     203.956 140.505  45.297  1.00114.68      CS3
ATOM  35072  CB  LEU C  87     203.202 141.252  44.199  1.00 86.77      CS3
ATOM  35073  CG  LEU C  87     201.857 140.631  43.823  1.00 86.77      CS3
ATOM  35074  CD1 LEU C  87     201.110 141.554  42.873  1.00 86.77      CS3
ATOM  35075  CD2 LEU C  87     202.088 139.259  43.201  1.00 86.77      CS3
ATOM  35076  C   LEU C  87     205.286 141.187  45.577  1.00114.68      CS3
ATOM  35077  O   LEU C  87     206.343 140.572  45.443  1.00114.68      CS3
ATOM  35078  N   ARG C  88     205.223 142.457  45.973  1.00 63.05      CS3
ATOM  35079  CA  ARG C  88     206.422 143.222  46.293  1.00 63.05      CS3
ATOM  35080  CB  ARG C  88     206.057 144.486  47.071  1.00141.43      CS3
ATOM  35081  CG  ARG C  88     206.534 145.777  46.440  1.00141.43      CS3
ATOM  35082  CD  ARG C  88     205.459 146.377  45.557  1.00141.43      CS3
ATOM  35083  NE  ARG C  88     205.847 147.684  45.036  1.00141.43      CS3
ATOM  35084  CZ  ARG C  88     205.002 148.554  44.489  1.00141.43      CS3
ATOM  35085  NH1 ARG C  88     203.711 148.257  44.390  1.00141.43      CS3
ATOM  35086  NH2 ARG C  88     205.446 149.725  44.044  1.00141.43      CS3
ATOM  35087  C   ARG C  88     207.308 142.341  47.167  1.00 63.05      CS3
ATOM  35088  O   ARG C  88     208.458 142.053  46.826  1.00 63.05      CS3
ATOM  35089  N   GLU C  89     206.746 141.913  48.295  1.00138.93      CS3
ATOM  35090  CA  GLU C  89     207.436 141.063  49.261  1.00138.93      CS3
ATOM  35091  CB  GLU C  89     206.427 140.525  50.283  1.00192.02      CS3
ATOM  35092  CG  GLU C  89     206.995 139.495  51.244  1.00192.02      CS3
ATOM  35093  CD  GLU C  89     208.156 140.034  52.055  1.00192.02      CS3
ATOM  35094  OE1 GLU C  89     207.932 140.941  52.883  1.00192.02      CS3
ATOM  35095  OE2 GLU C  89     209.294 139.554  51.861  1.00192.02      CS3
ATOM  35096  C   GLU C  89     208.173 139.897  48.608  1.00138.93      CS3
ATOM  35097  O   GLU C  89     209.039 139.272  49.225  1.00138.93      CS3
ATOM  35098  N   GLU C  90     207.835 139.609  47.357  1.00108.97      CS3
ATOM  35099  CA  GLU C  90     208.472 138.511  46.653  1.00108.97      CS3
ATOM  35100  CB  GLU C  90     207.407 137.598  46.044  1.00104.09      CS3
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ATOM	35101	CG	GLU	C	90	207.987	136.337	45.450	1.00104.09	CS3
ATOM	35102	CD	GLU	C	90	209.138	135.792	46.280	1.00104.09	CS3
ATOM	35103	OE1	GLU	C	90	208.969	135.633	47.508	1.00104.09	CS3
ATOM	35104	OE2	GLU	C	90	210.213	135.521	45.703	1.00104.09	CS3
ATOM	35105	C	GLU	C	90	209.465	138.947	45.578	1.00108.97	CS3
ATOM	35106	O	GLU	C	90	210.447	138.251	45.322	1.00108.97	CS3
ATOM	35107	N	LEU	C	91	209.220	140.095	44.951	1.00 95.58	CS3
ATOM	35108	CA	LEU	C	91	210.119	140.589	43.911	1.00 95.58	CS3
ATOM	35109	CB	LEU	C	91	209.488	141.756	43.141	1.00 62.71	CS3
ATOM	35110	CG	LEU	C	91	208.080	141.615	42.548	1.00 62.71	CS3
ATOM	35111	CD1	LEU	C	91	207.866	142.727	41.533	1.00 62.71	CS3
ATOM	35112	CD2	LEU	C	91	207.908	140.267	41.877	1.00 62.71	CS3
ATOM	35113	C	LEU	C	91	211.434	141.047	44.533	1.00 95.58	CS3
ATOM	35114	O	LEU	C	91	212.052	142.006	44.068	1.00 95.58	CS3
ATOM	35115	N	ALA	C	92	211.842	140.361	45.597	1.00112.28	CS3
ATOM	35116	CA	ALA	C	92	213.086	140.662	46.300	1.00112.28	CS3
ATOM	35117	CB	ALA	C	92	212.830	141.610	47.447	1.00 36.25	CS3
ATOM	35118	C	ALA	C	92	213.693	139.363	46.813	1.00112.28	CS3
ATOM	35119	O	ALA	C	92	214.902	139.272	47.018	1.00112.28	CS3
ATOM	35120	N	LYS	C	93	212.843	138.368	47.045	1.00165.35	CS3
ATOM	35121	CA	LYS	C	93	213.311	137.057	47.481	1.00165.35	CS3
ATOM	35122	CB	LYS	C	93	212.142	136.204	47.978	1.00180.35	CS3
ATOM	35123	CG	LYS	C	93	211.737	136.443	49.420	1.00180.35	CS3
ATOM	35124	CD	LYS	C	93	212.720	135.789	50.375	1.00180.35	CS3
ATOM	35125	CE	LYS	C	93	212.223	135.862	51.807	1.00180.35	CS3
ATOM	35126	NZ	LYS	C	93	213.122	135.130	52.740	1.00180.35	CS3
ATOM	35127	C	LYS	C	93	213.866	136.462	46.195	1.00165.35	CS3
ATOM	35128	O	LYS	C	93	214.758	135.610	46.198	1.00165.35	CS3
ATOM	35129	N	LEU	C	94	213.311	136.953	45.092	1.00131.97	CS3
ATOM	35130	CA	LEU	C	94	213.679	136.540	43.747	1.00131.97	CS3
ATOM	35131	CB	LEU	C	94	212.518	136.831	42.793	1.00106.58	CS3
ATOM	35132	CG	LEU	C	94	212.027	135.767	41.815	1.00106.58	CS3
ATOM	35133	CD1	LEU	C	94	211.336	134.648	42.583	1.00106.58	CS3
ATOM	35134	CD2	LEU	C	94	211.062	136.408	40.820	1.00106.58	CS3
ATOM	35135	C	LEU	C	94	214.890	137.351	43.308	1.00131.97	CS3
ATOM	35136	O	LEU	C	94	215.906	136.805	42.877	1.00131.97	CS3
ATOM	35137	N	THR	C	95	214.762	138.667	43.438	1.00143.58	CS3
ATOM	35138	CA	THR	C	95	215.806	139.597	43.039	1.00143.58	CS3
ATOM	35139	CB	THR	C	95	215.337	140.415	41.849	1.00105.96	CS3
ATOM	35140	OG1	THR	C	95	214.337	141.346	42.281	1.00105.96	CS3
ATOM	35141	CG2	THR	C	95	214.724	139.497	40.803	1.00105.96	CS3
ATOM	35142	C	THR	C	95	216.163	140.563	44.159	1.00143.58	CS3
ATOM	35143	O	THR	C	95	215.432	141.520	44.416	1.00143.58	CS3
ATOM	35144	N	GLY	C	96	217.287	140.318	44.823	1.00140.74	CS3
ATOM	35145	CA	GLY	C	96	217.697	141.196	45.902	1.00140.74	CS3
ATOM	35146	C	GLY	C	96	218.097	142.556	45.368	1.00140.74	CS3
ATOM	35147	O	GLY	C	96	219.234	142.988	45.546	1.00140.74	CS3
ATOM	35148	N	LYS	C	97	217.160	143.238	44.717	1.00 93.19	CS3
ATOM	35149	CA	LYS	C	97	217.439	144.547	44.143	1.00 93.19	CS3
ATOM	35150	CB	LYS	C	97	217.331	144.487	42.618	1.00159.05	CS3
ATOM	35151	CG	LYS	C	97	218.451	143.740	41.924	1.00159.05	CS3
ATOM	35152	CD	LYS	C	97	218.403	144.008	40.430	1.00159.05	CS3
ATOM	35153	CE	LYS	C	97	219.621	143.454	39.719	1.00159.05	CS3
ATOM	35154	NZ	LYS	C	97	219.619	143.839	38.283	1.00159.05	CS3
ATOM	35155	C	LYS	C	97	216.549	145.679	44.643	1.00 93.19	CS3
ATOM	35156	O	LYS	C	97	216.763	146.837	44.278	1.00 93.19	CS3
ATOM	35157	N	ASN	C	98	215.558	145.361	45.471	1.00129.04	CS3
ATOM	35158	CA	ASN	C	98	214.654	146.394	45.971	1.00129.04	CS3
ATOM	35159	CB	ASN	C	98	215.452	147.478	46.711	1.00201.30	CS3
ATOM	35160	CG	ASN	C	98	214.570	148.579	47.275	1.00201.30	CS3
ATOM	35161	OD1	ASN	C	98	213.849	149.255	46.541	1.00201.30	CS3
ATOM	35162	ND2	ASN	C	98	214.632	148.767	48.589	1.00201.30	CS3
ATOM	35163	C	ASN	C	98	213.970	146.986	44.740	1.00129.04	CS3
ATOM	35164	O	ASN	C	98	214.332	148.068	44.274	1.00129.04	CS3
ATOM	35165	N	VAL	C	99	212.983	146.267	44.215	1.00 92.40	CS3
ATOM	35166	CA	VAL	C	99	212.284	146.710	43.016	1.00 92.40	CS3
ATOM	35167	CB	VAL	C	99	212.233	145.582	41.970	1.00190.52	CS3
ATOM	35168	CG1	VAL	C	99	213.643	145.119	41.637	1.00190.52	CS3
ATOM	35169	CG2	VAL	C	99	211.402	144.425	42.500	1.00190.52	CS3
ATOM	35170	C	VAL	C	99	210.862	147.195	43.245	1.00 92.40	CS3
ATOM	35171	O	VAL	C	99	210.182	146.750	44.166	1.00 92.40	CS3
ATOM	35172	N	ALA	C	100	210.423	148.104	42.382	1.00116.13	CS3
ATOM	35173	CA	ALA	C	100	209.080	148.664	42.451	1.00116.13	CS3
ATOM	35174	CB	ALA	C	100	208.989	149.867	41.535	1.00 18.85	CS3
ATOM	35175	C	ALA	C	100	208.063	147.606	42.027	1.00116.13	CS3
ATOM	35176	O	ALA	C	100	208.342	146.408	42.117	1.00116.13	CS3
ATOM	35177	N	LEU	C	101	206.888	148.052	41.572	1.00 57.25	CS3

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ATOM  35178  CA  LEU C 101     205.826 147.151  41.108  1.00 57.25      CS3
ATOM  35179  CB  LEU C 101     205.537 146.055  42.137  1.00 75.06      CS3
ATOM  35180  CG  LEU C 101     205.016 144.725  41.579  1.00 75.06      CS3
ATOM  35181  CD1 LEU C 101     204.568 143.855  42.735  1.00 75.06      CS3
ATOM  35182  CD2 LEU C 101     203.863 144.941  40.616  1.00 75.06      CS3
ATOM  35183  C   LEU C 101     204.544 147.920  40.848  1.00 57.25      CS3
ATOM  35184  O   LEU C 101     203.473 147.500  41.273  1.00 57.25      CS3
ATOM  35185  N   ASN C 102     204.651 149.045  40.153  1.00 84.04      CS3
ATOM  35186  CA  ASN C 102     203.477 149.851  39.849  1.00 84.04      CS3
ATOM  35187  CB  ASN C 102     203.882 151.068  39.018  1.00170.49      CS3
ATOM  35188  CG  ASN C 102     204.965 151.889  39.682  1.00170.49      CS3
ATOM  35189  OD1 ASN C 102     205.390 152.915  39.155  1.00170.49      CS3
ATOM  35190  ND2 ASN C 102     205.422 151.439  40.846  1.00170.49      CS3
ATOM  35191  C   ASN C 102     202.439 149.028  39.086  1.00 84.04      CS3
ATOM  35192  O   ASN C 102     202.778 148.032  38.449  1.00 84.04      CS3
ATOM  35193  N   VAL C 103     201.174 149.436  39.164  1.00 64.71      CS3
ATOM  35194  CA  VAL C 103     200.099 148.742  38.459  1.00 64.71      CS3
ATOM  35195  CB  VAL C 103     199.153 147.976  39.428  1.00 58.50      CS3
ATOM  35196  CG1 VAL C 103     197.927 147.467  38.675  1.00 58.50      CS3
ATOM  35197  CG2 VAL C 103     199.883 146.801  40.052  1.00 58.50      CS3
ATOM  35198  C   VAL C 103     199.268 149.737  37.668  1.00 64.71      CS3
ATOM  35199  O   VAL C 103     198.738 150.695  38.221  1.00 64.71      CS3
ATOM  35200  N   GLN C 104     199.172 149.512  36.365  1.00 82.42      CS3
ATOM  35201  CA  GLN C 104     198.390 150.379  35.507  1.00 82.42      CS3
ATOM  35202  CB  GLN C 104     199.194 150.801  34.289  1.00157.77      CS3
ATOM  35203  CG  GLN C 104     198.529 151.893  33.494  1.00157.77      CS3
ATOM  35204  CD  GLN C 104     199.213 152.125  32.173  1.00157.77      CS3
ATOM  35205  OE1 GLN C 104     200.426 152.332  32.118  1.00157.77      CS3
ATOM  35206  NE2 GLN C 104     198.440 152.093  31.093  1.00157.77      CS3
ATOM  35207  C   GLN C 104     197.167 149.589  35.071  1.00 82.42      CS3
ATOM  35208  O   GLN C 104     197.198 148.356  35.030  1.00 82.42      CS3
ATOM  35209  N   GLU C 105     196.097 150.302  34.739  1.00 90.00      CS3
ATOM  35210  CA  GLU C 105     194.848 149.666  34.344  1.00 90.00      CS3
ATOM  35211  CB  GLU C 105     193.658 150.530  34.772  1.00201.30      CS3
ATOM  35212  CG  GLU C 105     192.299 149.910  34.468  1.00201.30      CS3
ATOM  35213  CD  GLU C 105     191.142 150.837  34.795  1.00201.30      CS3
ATOM  35214  OE1 GLU C 105     191.043 151.912  34.165  1.00201.30      CS3
ATOM  35215  OE2 GLU C 105     190.333 150.491  35.683  1.00201.30      CS3
ATOM  35216  C   GLU C 105     194.722 149.362  32.866  1.00 90.00      CS3
ATOM  35217  O   GLU C 105     195.068 150.179  32.014  1.00 90.00      CS3
ATOM  35218  N   VAL C 106     194.218 148.168  32.581  1.00 96.11      CS3
ATOM  35219  CA  VAL C 106     193.989 147.720  31.221  1.00 96.11      CS3
ATOM  35220  CB  VAL C 106     194.338 146.230  31.050  1.00142.45      CS3
ATOM  35221  CG1 VAL C 106     193.888 145.742  29.683  1.00142.45      CS3
ATOM  35222  CG2 VAL C 106     195.841 146.032  31.211  1.00142.45      CS3
ATOM  35223  C   VAL C 106     192.505 147.933  30.974  1.00 96.11      CS3
ATOM  35224  O   VAL C 106     191.660 147.180  31.460  1.00 96.11      CS3
ATOM  35225  N   GLN C 107     192.207 148.985  30.226  1.00112.21      CS3
ATOM  35226  CA  GLN C 107     190.842 149.365  29.903  1.00112.21      CS3
ATOM  35227  CB  GLN C 107     190.741 150.888  29.859  1.00 95.20      CS3
ATOM  35228  CG  GLN C 107     192.090 151.576  29.979  1.00 95.20      CS3
ATOM  35229  CD  GLN C 107     193.099 151.049  28.973  1.00 95.20      CS3
ATOM  35230  OE1 GLN C 107     192.911 151.178  27.763  1.00 95.20      CS3
ATOM  35231  NE2 GLN C 107     194.173 150.442  29.472  1.00 95.20      CS3
ATOM  35232  C   GLN C 107     190.347 148.773  28.588  1.00112.21      CS3
ATOM  35233  O   GLN C 107     190.906 149.021  27.515  1.00112.21      CS3
ATOM  35234  N   ASN C 108     189.279 147.993  28.693  1.00 75.64      CS3
ATOM  35235  CA  ASN C 108     188.654 147.338  27.554  1.00 75.64      CS3
ATOM  35236  CB  ASN C 108     188.351 148.337  26.438  1.00137.97      CS3
ATOM  35237  CG  ASN C 108     187.646 147.690  25.266  1.00137.97      CS3
ATOM  35238  OD1 ASN C 108     186.535 147.174  25.398  1.00137.97      CS3
ATOM  35239  ND2 ASN C 108     188.293 147.702  24.114  1.00137.97      CS3
ATOM  35240  C   ASN C 108     189.525 146.233  27.011  1.00 75.64      CS3
ATOM  35241  O   ASN C 108     190.144 146.381  25.963  1.00 75.64      CS3
ATOM  35242  N   PRO C 109     189.585 145.102  27.721  1.00 62.36      CS3
ATOM  35243  CD  PRO C 109     188.795 144.725  28.904  1.00124.19      CS3
ATOM  35244  CA  PRO C 109     190.404 143.981  27.265  1.00 62.36      CS3
ATOM  35245  CB  PRO C 109     190.122 142.902  28.310  1.00124.19      CS3
ATOM  35246  CG  PRO C 109     188.734 143.230  28.770  1.00124.19      CS3
ATOM  35247  C   PRO C 109     190.019 143.549  25.851  1.00 62.36      CS3
ATOM  35248  O   PRO C 109     190.756 142.811  25.190  1.00 62.36      CS3
ATOM  35249  N   ASN C 110     188.867 144.024  25.386  1.00115.14      CS3
ATOM  35250  CA  ASN C 110     188.400 143.679  24.053  1.00115.14      CS3
ATOM  35251  CB  ASN C 110     186.963 144.146  23.853  1.00 92.11      CS3
ATOM  35252  CG  ASN C 110     185.984 143.350  24.683  1.00 92.11      CS3
ATOM  35253  OD1 ASN C 110     186.141 142.136  24.854  1.00 92.11      CS3
ATOM  35254  ND2 ASN C 110     184.957 144.021  25.195  1.00 92.11      CS3
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ATOM  35255  C   ASN C 110     189.295 144.245  22.963  1.00115.14      CS3
ATOM  35256  O   ASN C 110     189.235 143.808  21.816  1.00115.14      CS3
ATOM  35257  N   LEU C 111     190.118 145.225  23.318  1.00 66.97      CS3
ATOM  35258  CA  LEU C 111     191.049 145.796  22.358  1.00 66.97      CS3
ATOM  35259  CB  LEU C 111     190.870 147.314  22.235  1.00 42.26      CS3
ATOM  35260  CG  LEU C 111     189.550 147.775  21.593  1.00 42.26      CS3
ATOM  35261  CD1 LEU C 111     189.657 149.234  21.214  1.00 42.26      CS3
ATOM  35262  CD2 LEU C 111     189.235 146.960  20.362  1.00 42.26      CS3
ATOM  35263  C   LEU C 111     192.470 145.442  22.790  1.00 66.97      CS3
ATOM  35264  O   LEU C 111     193.455 145.940  22.238  1.00 66.97      CS3
ATOM  35265  N   SER C 112     192.562 144.575  23.792  1.00 34.24      CS3
ATOM  35266  CA  SER C 112     193.847 144.101  24.277  1.00 34.24      CS3
ATOM  35267  CB  SER C 112     193.931 144.160  25.798  1.00112.35      CS3
ATOM  35268  OG  SER C 112     195.107 143.508  26.252  1.00112.35      CS3
ATOM  35269  C   SER C 112     193.930 142.658  23.829  1.00 34.24      CS3
ATOM  35270  O   SER C 112     193.538 141.747  24.559  1.00 34.24      CS3
ATOM  35271  N   ALA C 113     194.430 142.469  22.613  1.00 62.79      CS3
ATOM  35272  CA  ALA C 113     194.573 141.155  22.000  1.00 62.79      CS3
ATOM  35273  CB  ALA C 113     195.508 141.257  20.791  1.00 49.91      CS3
ATOM  35274  C   ALA C 113     195.058 140.046  22.937  1.00 62.79      CS3
ATOM  35275  O   ALA C 113     194.414 138.998  23.063  1.00 62.79      CS3
ATOM  35276  N   PRO C 114     196.197 140.269  23.612  1.00 51.39      CS3
ATOM  35277  CD  PRO C 114     196.934 141.543  23.689  1.00 64.62      CS3
ATOM  35278  CA  PRO C 114     196.772 139.283  24.531  1.00 51.39      CS3
ATOM  35279  CB  PRO C 114     197.826 140.089  25.279  1.00 64.62      CS3
ATOM  35280  CG  PRO C 114     198.255 141.107  24.264  1.00 64.62      CS3
ATOM  35281  C   PRO C 114     195.748 138.670  25.469  1.00 51.39      CS3
ATOM  35282  O   PRO C 114     195.869 137.509  25.871  1.00 51.39      CS3
ATOM  35283  N   LEU C 115     194.739 139.465  25.812  1.00 57.20      CS3
ATOM  35284  CA  LEU C 115     193.681 139.033  26.713  1.00 57.20      CS3
ATOM  35285  CB  LEU C 115     193.089 140.249  27.427  1.00 69.94      CS3
ATOM  35286  CG  LEU C 115     194.134 141.206  28.006  1.00 69.94      CS3
ATOM  35287  CD1 LEU C 115     193.448 142.414  28.612  1.00 69.94      CS3
ATOM  35288  CD2 LEU C 115     194.969 140.484  29.047  1.00 69.94      CS3
ATOM  35289  C   LEU C 115     192.597 138.309  25.936  1.00 57.20      CS3
ATOM  35290  O   LEU C 115     192.167 137.224  26.320  1.00 57.20      CS3
ATOM  35291  N   VAL C 116     192.168 138.914  24.834  1.00 42.81      CS3
ATOM  35292  CA  VAL C 116     191.129 138.327  24.003  1.00 42.81      CS3
ATOM  35293  CB  VAL C 116     191.033 139.020  22.641  1.00 45.50      CS3
ATOM  35294  CG1 VAL C 116     189.695 138.690  21.998  1.00 45.50      CS3
ATOM  35295  CG2 VAL C 116     191.205 140.519  22.806  1.00 45.50      CS3
ATOM  35296  C   VAL C 116     191.429 136.859  23.761  1.00 42.81      CS3
ATOM  35297  O   VAL C 116     190.523 136.025  23.703  1.00 42.81      CS3
ATOM  35298  N   ALA C 117     192.712 136.551  23.612  1.00 67.91      CS3
ATOM  35299  CA  ALA C 117     193.140 135.179  23.389  1.00 67.91      CS3
ATOM  35300  CB  ALA C 117     194.636 135.130  23.129  1.00 92.05      CS3
ATOM  35301  C   ALA C 117     192.800 134.375  24.627  1.00 67.91      CS3
ATOM  35302  O   ALA C 117     192.135 133.343  24.544  1.00 67.91      CS3
ATOM  35303  N   GLN C 118     193.256 134.872  25.775  1.00 76.70      CS3
ATOM  35304  CA  GLN C 118     193.020 134.222  27.059  1.00 76.70      CS3
ATOM  35305  CB  GLN C 118     193.422 135.157  28.202  1.00144.54      CS3
ATOM  35306  CG  GLN C 118     194.925 135.315  28.370  1.00144.54      CS3
ATOM  35307  CD  GLN C 118     195.286 136.295  29.467  1.00144.54      CS3
ATOM  35308  OE1 GLN C 118     195.029 137.492  29.349  1.00144.54      CS3
ATOM  35309  NE2 GLN C 118     195.878 135.791  30.546  1.00144.54      CS3
ATOM  35310  C   GLN C 118     191.574 133.769  27.239  1.00 76.70      CS3
ATOM  35311  O   GLN C 118     191.328 132.659  27.705  1.00 76.70      CS3
ATOM  35312  N   ARG C 119     190.619 134.624  26.879  1.00 81.98      CS3
ATOM  35313  CA  ARG C 119     189.211 134.262  26.998  1.00 81.98      CS3
ATOM  35314  CB  ARG C 119     188.314 135.451  26.624  1.00145.35      CS3
ATOM  35315  CG  ARG C 119     186.818 135.125  26.478  1.00145.35      CS3
ATOM  35316  CD  ARG C 119     186.170 134.621  27.777  1.00145.35      CS3
ATOM  35317  NE  ARG C 119     184.748 134.307  27.597  1.00145.35      CS3
ATOM  35318  CZ  ARG C 119     183.957 133.806  28.543  1.00145.35      CS3
ATOM  35319  NH1 ARG C 119     184.436 133.554  29.753  1.00145.35      CS3
ATOM  35320  NH2 ARG C 119     182.682 133.554  28.278  1.00145.35      CS3
ATOM  35321  C   ARG C 119     188.943 133.084  26.062  1.00 81.98      CS3
ATOM  35322  O   ARG C 119     188.639 131.977  26.516  1.00 81.98      CS3
ATOM  35323  N   VAL C 120     189.073 133.325  24.757  1.00 32.05      CS3
ATOM  35324  CA  VAL C 120     188.846 132.291  23.761  1.00 32.05      CS3
ATOM  35325  CB  VAL C 120     189.402 132.703  22.413  1.00 57.16      CS3
ATOM  35326  CG1 VAL C 120     188.957 131.708  21.358  1.00 57.16      CS3
ATOM  35327  CG2 VAL C 120     188.928 134.102  22.071  1.00 57.16      CS3
ATOM  35328  C   VAL C 120     189.546 131.035  24.220  1.00 32.05      CS3
ATOM  35329  O   VAL C 120     189.047 129.928  24.049  1.00 32.05      CS3
ATOM  35330  N   ALA C 121     190.712 131.226  24.817  1.00 35.58      CS3
ATOM  35331  CA  ALA C 121     191.489 130.118  25.340  1.00 35.58      CS3
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ATOM  35332  CB  ALA C 121     192.853 130.602  25.795  1.00 91.84      CS3
ATOM  35333  C   ALA C 121     190.721 129.552  26.517  1.00 35.58      CS3
ATOM  35334  O   ALA C 121     190.375 128.370  26.540  1.00 35.58      CS3
ATOM  35335  N   GLU C 122     190.454 130.418  27.489  1.00 81.05      CS3
ATOM  35336  CA  GLU C 122     189.722 130.053  28.693  1.00 81.05      CS3
ATOM  35337  CB  GLU C 122     189.304 131.317  29.447  1.00184.43      CS3
ATOM  35338  CG  GLU C 122     188.665 131.070  30.800  1.00184.43      CS3
ATOM  35339  CD  GLU C 122     188.278 132.360  31.497  1.00184.43      CS3
ATOM  35340  OE1 GLU C 122     187.446 133.109  30.942  1.00184.43      CS3
ATOM  35341  OE2 GLU C 122     188.808 132.628  32.598  1.00184.43      CS3
ATOM  35342  C   GLU C 122     188.491 129.239  28.314  1.00 81.05      CS3
ATOM  35343  O   GLU C 122     188.333 128.098  28.757  1.00 81.05      CS3
ATOM  35344  N   GLN C 123     187.629 129.825  27.483  1.00 59.85      CS3
ATOM  35345  CA  GLN C 123     186.416 129.146  27.045  1.00 59.85      CS3
ATOM  35346  CB  GLN C 123     185.714 129.949  25.953  1.00 69.74      CS3
ATOM  35347  CG  GLN C 123     185.060 131.220  26.445  1.00 69.74      CS3
ATOM  35348  CD  GLN C 123     184.205 131.876  25.375  1.00 69.74      CS3
ATOM  35349  OE1 GLN C 123     183.198 131.316  24.935  1.00 69.74      CS3
ATOM  35350  NE2 GLN C 123     184.607 133.068  24.943  1.00 69.74      CS3
ATOM  35351  C   GLN C 123     186.742 127.753  26.529  1.00 59.85      CS3
ATOM  35352  O   GLN C 123     186.224 126.756  27.028  1.00 59.85      CS3
ATOM  35353  N   ILE C 124     187.613 127.691  25.530  1.00 74.83      CS3
ATOM  35354  CA  ILE C 124     188.008 126.419  24.946  1.00 74.83      CS3
ATOM  35355  CB  ILE C 124     189.275 126.579  24.075  1.00 64.80      CS3
ATOM  35356  CG2 ILE C 124     189.886 125.218  23.767  1.00 64.80      CS3
ATOM  35357  CG1 ILE C 124     188.915 127.316  22.786  1.00 64.80      CS3
ATOM  35358  CD1 ILE C 124     190.047 127.397  21.793  1.00 64.80      CS3
ATOM  35359  C   ILE C 124     188.270 125.365  26.012  1.00 74.83      CS3
ATOM  35360  O   ILE C 124     187.861 124.208  25.870  1.00 74.83      CS3
ATOM  35361  N   GLU C 125     188.947 125.775  27.080  1.00 72.65      CS3
ATOM  35362  CA  GLU C 125     189.278 124.859  28.163  1.00 72.65      CS3
ATOM  35363  CB  GLU C 125     190.296 125.506  29.099  1.00138.33      CS3
ATOM  35364  CG  GLU C 125     191.600 125.858  28.416  1.00138.33      CS3
ATOM  35365  CD  GLU C 125     192.573 126.542  29.346  1.00138.33      CS3
ATOM  35366  OE1 GLU C 125     192.240 127.632  29.861  1.00138.33      CS3
ATOM  35367  OE2 GLU C 125     193.670 125.988  29.564  1.00138.33      CS3
ATOM  35368  C   GLU C 125     188.041 124.437  28.940  1.00 72.65      CS3
ATOM  35369  O   GLU C 125     187.950 123.297  29.402  1.00 72.65      CS3
ATOM  35370  N   ARG C 126     187.092 125.363  29.071  1.00120.45      CS3
ATOM  35371  CA  ARG C 126     185.845 125.107  29.787  1.00120.45      CS3
ATOM  35372  CB  ARG C 126     185.137 126.423  30.110  1.00149.23      CS3
ATOM  35373  CG  ARG C 126     185.861 127.258  31.143  1.00149.23      CS3
ATOM  35374  CD  ARG C 126     185.099 128.521  31.482  1.00149.23      CS3
ATOM  35375  NE  ARG C 126     185.776 129.271  32.534  1.00149.23      CS3
ATOM  35376  CZ  ARG C 126     185.375 130.451  32.990  1.00149.23      CS3
ATOM  35377  NH1 ARG C 126     184.290 131.025  32.483  1.00149.23      CS3
ATOM  35378  NH2 ARG C 126     186.057 131.054  33.957  1.00149.23      CS3
ATOM  35379  C   ARG C 126     184.923 124.218  28.975  1.00120.45      CS3
ATOM  35380  O   ARG C 126     183.902 123.749  29.472  1.00120.45      CS3
ATOM  35381  N   ARG C 127     185.298 123.998  27.720  1.00 67.51      CS3
ATOM  35382  CA  ARG C 127     184.554 123.151  26.798  1.00 67.51      CS3
ATOM  35383  CB  ARG C 127     184.070 121.898  27.527  1.00 86.01      CS3
ATOM  35384  CG  ARG C 127     185.176 121.286  28.373  1.00 86.01      CS3
ATOM  35385  CD  ARG C 127     184.772 120.011  29.063  1.00 86.01      CS3
ATOM  35386  NE  ARG C 127     185.814 119.575  29.987  1.00 86.01      CS3
ATOM  35387  CZ  ARG C 127     185.837 118.387  30.585  1.00 86.01      CS3
ATOM  35388  NH1 ARG C 127     184.870 117.506  30.354  1.00 86.01      CS3
ATOM  35389  NH2 ARG C 127     186.824 118.080  31.418  1.00 86.01      CS3
ATOM  35390  C   ARG C 127     183.400 123.882  26.132  1.00 67.51      CS3
ATOM  35391  O   ARG C 127     182.238 123.546  26.321  1.00 67.51      CS3
ATOM  35392  N   PHE C 128     183.749 124.889  25.342  1.00 70.59      CS3
ATOM  35393  CA  PHE C 128     182.773 125.681  24.616  1.00 70.59      CS3
ATOM  35394  CB  PHE C 128     183.000 127.164  24.876  1.00126.88      CS3
ATOM  35395  CG  PHE C 128     182.214 127.693  26.023  1.00126.88      CS3
ATOM  35396  CD1 PHE C 128     182.363 127.147  27.292  1.00126.88      CS3
ATOM  35397  CD2 PHE C 128     181.306 128.729  25.834  1.00126.88      CS3
ATOM  35398  CE1 PHE C 128     181.616 127.624  28.361  1.00126.88      CS3
ATOM  35399  CE2 PHE C 128     180.553 129.216  26.894  1.00126.88      CS3
ATOM  35400  CZ  PHE C 128     180.707 128.663  28.162  1.00126.88      CS3
ATOM  35401  C   PHE C 128     182.836 125.426  23.115  1.00 70.59      CS3
ATOM  35402  O   PHE C 128     183.775 124.803  22.611  1.00 70.59      CS3
ATOM  35403  N   ALA C 129     181.823 125.917  22.407  1.00 51.57      CS3
ATOM  35404  CA  ALA C 129     181.749 125.770  20.962  1.00 51.57      CS3
ATOM  35405  CB  ALA C 129     180.369 126.151  20.467  1.00171.60      CS3
ATOM  35406  C   ALA C 129     182.783 126.714  20.401  1.00 51.57      CS3
ATOM  35407  O   ALA C 129     182.576 127.935  20.374  1.00 51.57      CS3
ATOM  35408  N   VAL C 130     183.901 126.145  19.962  1.00 38.05      CS3
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ATOM  35409  CA  VAL C 130     184.986 126.950  19.428  1.00 38.05      CS3
ATOM  35410  CB  VAL C 130     186.139 126.078  18.946  1.00 33.10      CS3
ATOM  35411  CG1 VAL C 130     187.334 126.957  18.629  1.00 33.10      CS3
ATOM  35412  CG2 VAL C 130     186.493 125.056  20.017  1.00 33.10      CS3
ATOM  35413  C   VAL C 130     184.549 127.857  18.292  1.00 38.05      CS3
ATOM  35414  O   VAL C 130     184.754 129.071  18.355  1.00 38.05      CS3
ATOM  35415  N   ARG C 131     183.943 127.281  17.260  1.00 56.86      CS3
ATOM  35416  CA  ARG C 131     183.495 128.088  16.136  1.00 56.86      CS3
ATOM  35417  CB  ARG C 131     182.523 127.293  15.251  1.00198.94      CS3
ATOM  35418  CG  ARG C 131     182.374 127.834  13.822  1.00198.94      CS3
ATOM  35419  CD  ARG C 131     181.590 126.864  12.932  1.00198.94      CS3
ATOM  35420  NE  ARG C 131     181.458 127.329  11.549  1.00198.94      CS3
ATOM  35421  CZ  ARG C 131     180.811 126.667  10.590  1.00198.94      CS3
ATOM  35422  NH1 ARG C 131     180.231 125.504  10.855  1.00198.94      CS3
ATOM  35423  NH2 ARG C 131     180.737 127.168   9.364  1.00198.94      CS3
ATOM  35424  C   ARG C 131     182.828 129.357  16.676  1.00 56.86      CS3
ATOM  35425  O   ARG C 131     183.027 130.448  16.132  1.00 56.86      CS3
ATOM  35426  N   ARG C 132     182.055 129.214  17.758  1.00 61.76      CS3
ATOM  35427  CA  ARG C 132     181.370 130.351  18.387  1.00 61.76      CS3
ATOM  35428  CB  ARG C 132     180.423 129.899  19.501  1.00201.15      CS3
ATOM  35429  CG  ARG C 132     179.172 129.165  19.095  1.00201.15      CS3
ATOM  35430  CD  ARG C 132     178.382 128.854  20.357  1.00201.15      CS3
ATOM  35431  NE  ARG C 132     177.283 127.924  20.133  1.00201.15      CS3
ATOM  35432  CZ  ARG C 132     176.630 127.301  21.109  1.00201.15      CS3
ATOM  35433  NH1 ARG C 132     176.970 127.511  22.375  1.00201.15      CS3
ATOM  35434  NH2 ARG C 132     175.644 126.462  20.823  1.00201.15      CS3
ATOM  35435  C   ARG C 132     182.414 131.218  19.042  1.00 61.76      CS3
ATOM  35436  O   ARG C 132     182.677 132.347  18.619  1.00 61.76      CS3
ATOM  35437  N   ALA C 133     182.983 130.656  20.105  1.00 54.75      CS3
ATOM  35438  CA  ALA C 133     184.008 131.303  20.907  1.00 54.75      CS3
ATOM  35439  CB  ALA C 133     184.995 130.269  21.392  1.00 52.35      CS3
ATOM  35440  C   ALA C 133     184.726 132.352  20.095  1.00 54.75      CS3
ATOM  35441  O   ALA C 133     184.813 133.523  20.474  1.00 54.75      CS3
ATOM  35442  N   ILE C 134     185.227 131.903  18.957  1.00 64.47      CS3
ATOM  35443  CA  ILE C 134     185.957 132.750  18.044  1.00 64.47      CS3
ATOM  35444  CB  ILE C 134     186.591 131.896  16.948  1.00 74.56      CS3
ATOM  35445  CG2 ILE C 134     187.556 132.724  16.142  1.00 74.56      CS3
ATOM  35446  CG1 ILE C 134     187.324 130.721  17.595  1.00 74.56      CS3
ATOM  35447  CD1 ILE C 134     187.919 129.767  16.621  1.00 74.56      CS3
ATOM  35448  C   ILE C 134     185.042 133.791  17.421  1.00 64.47      CS3
ATOM  35449  O   ILE C 134     185.272 134.993  17.562  1.00 64.47      CS3
ATOM  35450  N   LYS C 135     184.004 133.325  16.733  1.00 63.22      CS3
ATOM  35451  CA  LYS C 135     183.071 134.235  16.097  1.00 63.22      CS3
ATOM  35452  CB  LYS C 135     181.784 133.511  15.718  1.00117.60      CS3
ATOM  35453  CG  LYS C 135     181.907 132.620  14.501  1.00117.60      CS3
ATOM  35454  CD  LYS C 135     180.544 132.072  14.100  1.00117.60      CS3
ATOM  35455  CE  LYS C 135     180.605 131.274  12.806  1.00117.60      CS3
ATOM  35456  NZ  LYS C 135     179.245 130.891  12.329  1.00117.60      CS3
ATOM  35457  C   LYS C 135     182.755 135.380  17.042  1.00 63.22      CS3
ATOM  35458  O   LYS C 135     182.814 136.551  16.649  1.00 63.22      CS3
ATOM  35459  N   GLN C 136     182.442 135.034  18.290  1.00 70.48      CS3
ATOM  35460  CA  GLN C 136     182.102 136.025  19.311  1.00 70.48      CS3
ATOM  35461  CB  GLN C 136     181.820 135.334  20.640  1.00 97.82      CS3
ATOM  35462  CG  GLN C 136     180.769 134.255  20.566  1.00 97.82      CS3
ATOM  35463  CD  GLN C 136     180.397 133.718  21.936  1.00 97.82      CS3
ATOM  35464  OE1 GLN C 136     181.262 133.317  22.722  1.00 97.82      CS3
ATOM  35465  NE2 GLN C 136     179.101 133.704  22.230  1.00 97.82      CS3
ATOM  35466  C   GLN C 136     183.206 137.058  19.515  1.00 70.48      CS3
ATOM  35467  O   GLN C 136     183.019 138.247  19.239  1.00 70.48      CS3
ATOM  35468  N   ALA C 137     184.350 136.586  20.009  1.00 44.21      CS3
ATOM  35469  CA  ALA C 137     185.519 137.426  20.274  1.00 44.21      CS3
ATOM  35470  CB  ALA C 137     186.755 136.551  20.412  1.00 17.13      CS3
ATOM  35471  C   ALA C 137     185.751 138.485  19.202  1.00 44.21      CS3
ATOM  35472  O   ALA C 137     185.854 139.679  19.497  1.00 44.21      CS3
ATOM  35473  N   VAL C 138     185.846 138.043  17.956  1.00 80.90      CS3
ATOM  35474  CA  VAL C 138     186.062 138.979  16.868  1.00 80.90      CS3
ATOM  35475  CB  VAL C 138     185.734 138.344  15.503  1.00 93.94      CS3
ATOM  35476  CG1 VAL C 138     186.554 139.019  14.407  1.00 93.94      CS3
ATOM  35477  CG2 VAL C 138     186.002 136.851  15.549  1.00 93.94      CS3
ATOM  35478  C   VAL C 138     185.112 140.140  17.119  1.00 80.90      CS3
ATOM  35479  O   VAL C 138     185.532 141.296  17.221  1.00 80.90      CS3
ATOM  35480  N   GLN C 139     183.830 139.810  17.242  1.00 60.76      CS3
ATOM  35481  CA  GLN C 139     182.810 140.809  17.495  1.00 60.76      CS3
ATOM  35482  CB  GLN C 139     181.472 140.141  17.817  1.00 86.07      CS3
ATOM  35483  CG  GLN C 139     180.486 140.129  16.660  1.00 86.07      CS3
ATOM  35484  CD  GLN C 139     180.112 141.529  16.180  1.00 86.07      CS3
ATOM  35485  OE1 GLN C 139     180.914 142.224  15.552  1.00 86.07      CS3
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ATOM  35486  NE2 GLN C 139     178.887 141.949  16.482  1.00 86.07       CS3
ATOM  35487  C   GLN C 139     183.231 141.699  18.653  1.00 60.76       CS3
ATOM  35488  O   GLN C 139     183.474 142.890  18.466  1.00 60.76       CS3
ATOM  35489  N   ARG C 140     183.319 141.116  19.846  1.00 75.36       CS3
ATOM  35490  CA  ARG C 140     183.709 141.866  21.034  1.00 75.36       CS3
ATOM  35491  CB  ARG C 140     184.326 140.940  22.079  1.00 83.56       CS3
ATOM  35492  CG  ARG C 140     183.373 139.942  22.692  1.00 83.56       CS3
ATOM  35493  CD  ARG C 140     184.163 138.806  23.303  1.00 83.56       CS3
ATOM  35494  NE  ARG C 140     183.305 137.771  23.866  1.00 83.56       CS3
ATOM  35495  CZ  ARG C 140     183.683 136.507  24.042  1.00 83.56       CS3
ATOM  35496  NH1 ARG C 140     184.907 136.124  23.693  1.00 83.56       CS3
ATOM  35497  NH2 ARG C 140     182.842 135.624  24.573  1.00 83.56       CS3
ATOM  35498  C   ARG C 140     184.725 142.922  20.646  1.00 75.36       CS3
ATOM  35499  O   ARG C 140     184.560 144.101  20.961  1.00 75.36       CS3
ATOM  35500  N   VAL C 141     185.767 142.489  19.941  1.00 29.69       CS3
ATOM  35501  CA  VAL C 141     186.829 143.392  19.512  1.00 29.69       CS3
ATOM  35502  CB  VAL C 141     188.047 142.605  18.971  1.00 36.90       CS3
ATOM  35503  CG1 VAL C 141     189.216 143.559  18.742  1.00 36.90       CS3
ATOM  35504  CG2 VAL C 141     188.439 141.504  19.959  1.00 36.90       CS3
ATOM  35505  C   VAL C 141     186.349 144.379  18.449  1.00 29.69       CS3
ATOM  35506  O   VAL C 141     186.819 145.512  18.375  1.00 29.69       CS3
ATOM  35507  N   MET C 142     185.420 143.950  17.613  1.00 59.91       CS3
ATOM  35508  CA  MET C 142     184.908 144.854  16.606  1.00 59.91       CS3
ATOM  35509  CB  MET C 142     184.220 144.084  15.481  1.00 65.98       CS3
ATOM  35510  CG  MET C 142     185.201 143.421  14.531  1.00 65.98       CS3
ATOM  35511  SD  MET C 142     186.514 144.570  14.059  1.00 65.98       CS3
ATOM  35512  CE  MET C 142     185.538 145.902  13.382  1.00 65.98       CS3
ATOM  35513  C   MET C 142     183.934 145.776  17.299  1.00 59.91       CS3
ATOM  35514  O   MET C 142     183.902 146.974  17.026  1.00 59.91       CS3
ATOM  35515  N   GLU C 143     183.149 145.202  18.208  1.00 71.57       CS3
ATOM  35516  CA  GLU C 143     182.174 145.961  18.978  1.00 71.57       CS3
ATOM  35517  CB  GLU C 143     181.454 145.064  19.990  1.00201.30       CS3
ATOM  35518  CG  GLU C 143     180.564 143.986  19.386  1.00201.30       CS3
ATOM  35519  CD  GLU C 143     179.732 143.261  20.438  1.00201.30       CS3
ATOM  35520  OE1 GLU C 143     178.909 143.922  21.107  1.00201.30       CS3
ATOM  35521  OE2 GLU C 143     179.901 142.032  20.596  1.00201.30       CS3
ATOM  35522  C   GLU C 143     182.916 147.054  19.729  1.00 71.57       CS3
ATOM  35523  O   GLU C 143     182.510 148.217  19.704  1.00 71.57       CS3
ATOM  35524  N   SER C 144     184.008 146.667  20.388  1.00 47.53       CS3
ATOM  35525  CA  SER C 144     184.830 147.598  21.155  1.00 47.53       CS3
ATOM  35526  CB  SER C 144     185.723 146.829  22.139  1.00 92.88       CS3
ATOM  35527  OG  SER C 144     186.646 145.986  21.472  1.00 92.88       CS3
ATOM  35528  C   SER C 144     185.684 148.563  20.312  1.00 47.53       CS3
ATOM  35529  O   SER C 144     186.703 149.070  20.784  1.00 47.53       CS3
ATOM  35530  N   GLY C 145     185.277 148.793  19.062  1.00 88.58       CS3
ATOM  35531  CA  GLY C 145     185.966 149.748  18.203  1.00 88.58       CS3
ATOM  35532  C   GLY C 145     187.166 149.437  17.318  1.00 88.58       CS3
ATOM  35533  O   GLY C 145     187.676 150.357  16.679  1.00 88.58       CS3
ATOM  35534  N   ALA C 146     187.629 148.191  17.249  1.00 95.65       CS3
ATOM  35535  CA  ALA C 146     188.790 147.881  16.403  1.00 95.65       CS3
ATOM  35536  CB  ALA C 146     189.224 146.423  16.583  1.00 17.44       CS3
ATOM  35537  C   ALA C 146     188.500 148.146  14.934  1.00 95.65       CS3
ATOM  35538  O   ALA C 146     187.341 148.231  14.526  1.00 95.65       CS3
ATOM  35539  N   LYS C 147     189.559 148.282  14.141  1.00 66.85       CS3
ATOM  35540  CA  LYS C 147     189.404 148.522  12.713  1.00 66.85       CS3
ATOM  35541  CB  LYS C 147     190.495 149.469  12.197  1.00104.89       CS3
ATOM  35542  CG  LYS C 147     190.115 150.161  10.889  1.00104.89       CS3
ATOM  35543  CD  LYS C 147     191.253 150.994  10.300  1.00104.89       CS3
ATOM  35544  CE  LYS C 147     191.661 152.159  11.199  1.00104.89       CS3
ATOM  35545  NZ  LYS C 147     192.757 152.982  10.588  1.00104.89       CS3
ATOM  35546  C   LYS C 147     189.482 147.169  12.006  1.00 66.85       CS3
ATOM  35547  O   LYS C 147     189.340 147.072  10.787  1.00 66.85       CS3
ATOM  35548  N   GLY C 148     189.695 146.127  12.803  1.00 36.15       CS3
ATOM  35549  CA  GLY C 148     189.775 144.779  12.286  1.00 36.15       CS3
ATOM  35550  C   GLY C 148     190.301 143.855  13.366  1.00 36.15       CS3
ATOM  35551  O   GLY C 148     190.921 144.311  14.325  1.00 36.15       CS3
ATOM  35552  N   ALA C 149     190.061 142.557  13.219  1.00 34.13       CS3
ATOM  35553  CA  ALA C 149     190.538 141.592  14.198  1.00 34.13       CS3
ATOM  35554  CB  ALA C 149     189.710 141.702  15.455  1.00 37.17       CS3
ATOM  35555  C   ALA C 149     190.476 140.166  13.646  1.00 34.13       CS3
ATOM  35556  O   ALA C 149     189.711 139.875  12.726  1.00 34.13       CS3
ATOM  35557  N   LYS C 150     191.274 139.273  14.216  1.00 48.93       CS3
ATOM  35558  CA  LYS C 150     191.303 137.890  13.762  1.00 48.93       CS3
ATOM  35559  CB  LYS C 150     192.364 137.765  12.668  1.00100.84       CS3
ATOM  35560  CG  LYS C 150     192.408 136.440  11.933  1.00100.84       CS3
ATOM  35561  CD  LYS C 150     193.495 136.472  10.861  1.00100.84       CS3
ATOM  35562  CE  LYS C 150     193.646 135.127  10.175  1.00100.84       CS3
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ATOM  35563  NZ  LYS C 150     194.831 135.085   9.273  1.00100.84      CS3
ATOM  35564  C   LYS C 150     191.606 136.938  14.928  1.00 48.93      CS3
ATOM  35565  O   LYS C 150     192.389 137.258  15.825  1.00 48.93      CS3
ATOM  35566  N   VAL C 151     190.981 135.769  14.929  1.00 32.26      CS3
ATOM  35567  CA  VAL C 151     191.224 134.812  15.996  1.00 32.26      CS3
ATOM  35568  CB  VAL C 151     190.025 134.715  16.921  1.00 40.53      CS3
ATOM  35569  CG1 VAL C 151     190.356 133.830  18.125  1.00 40.53      CS3
ATOM  35570  CG2 VAL C 151     189.617 136.108  17.347  1.00 40.53      CS3
ATOM  35571  C   VAL C 151     191.507 133.448  15.398  1.00 32.26      CS3
ATOM  35572  O   VAL C 151     190.851 133.026  14.451  1.00 32.26      CS3
ATOM  35573  N   ILE C 152     192.467 132.733  15.960  1.00 29.13      CS3
ATOM  35574  CA  ILE C 152     192.824 131.456  15.384  1.00 29.13      CS3
ATOM  35575  CB  ILE C 152     194.104 131.650  14.536  1.00 12.80      CS3
ATOM  35576  CG2 ILE C 152     194.621 130.330  13.992  1.00 12.80      CS3
ATOM  35577  CG1 ILE C 152     193.788 132.612  13.396  1.00 12.80      CS3
ATOM  35578  CD1 ILE C 152     194.973 133.111  12.675  1.00 12.80      CS3
ATOM  35579  C   ILE C 152     193.034 130.353  16.400  1.00 29.13      CS3
ATOM  35580  O   ILE C 152     193.869 130.479  17.308  1.00 29.13      CS3
ATOM  35581  N   VAL C 153     192.275 129.271  16.255  1.00 40.95      CS3
ATOM  35582  CA  VAL C 153     192.432 128.135  17.157  1.00 40.95      CS3
ATOM  35583  CB  VAL C 153     191.086 127.652  17.737  1.00 51.65      CS3
ATOM  35584  CG1 VAL C 153     191.322 126.457  18.649  1.00 51.65      CS3
ATOM  35585  CG2 VAL C 153     190.421 128.775  18.526  1.00 51.65      CS3
ATOM  35586  C   VAL C 153     193.077 127.007  16.363  1.00 40.95      CS3
ATOM  35587  O   VAL C 153     192.775 126.829  15.188  1.00 40.95      CS3
ATOM  35588  N   SER C 154     193.972 126.264  17.011  1.00 49.13      CS3
ATOM  35589  CA  SER C 154     194.693 125.165  16.379  1.00 49.13      CS3
ATOM  35590  CB  SER C 154     195.785 124.667  17.299  1.00 52.86      CS3
ATOM  35591  OG  SER C 154     195.197 123.949  18.368  1.00 52.86      CS3
ATOM  35592  C   SER C 154     193.795 123.988  16.050  1.00 49.13      CS3
ATOM  35593  O   SER C 154     192.736 124.149  15.453  1.00 49.13      CS3
ATOM  35594  N   GLY C 155     194.225 122.794  16.455  1.00 76.48      CS3
ATOM  35595  CA  GLY C 155     193.456 121.599  16.162  1.00 76.48      CS3
ATOM  35596  C   GLY C 155     192.993 120.812  17.366  1.00 76.48      CS3
ATOM  35597  O   GLY C 155     193.351 121.125  18.494  1.00 76.48      CS3
ATOM  35598  N   ARG C 156     192.215 119.767  17.093  1.00 57.67      CS3
ATOM  35599  CA  ARG C 156     191.620 118.878  18.093  1.00 57.67      CS3
ATOM  35600  CB  ARG C 156     192.532 118.644  19.293  1.00 36.36      CS3
ATOM  35601  CG  ARG C 156     193.704 117.757  18.992  1.00 36.36      CS3
ATOM  35602  CD  ARG C 156     193.695 116.478  19.819  1.00 36.36      CS3
ATOM  35603  NE  ARG C 156     192.600 115.569  19.486  1.00 36.36      CS3
ATOM  35604  CZ  ARG C 156     192.499 114.327  19.960  1.00 36.36      CS3
ATOM  35605  NH1 ARG C 156     193.424 113.843  20.782  1.00 36.36      CS3
ATOM  35606  NH2 ARG C 156     191.471 113.564  19.619  1.00 36.36      CS3
ATOM  35607  C   ARG C 156     190.353 119.544  18.548  1.00 57.67      CS3
ATOM  35608  O   ARG C 156     189.781 119.187  19.571  1.00 57.67      CS3
ATOM  35609  N   ILE C 157     189.922 120.531  17.776  1.00 48.61      CS3
ATOM  35610  CA  ILE C 157     188.703 121.238  18.095  1.00 48.61      CS3
ATOM  35611  CB  ILE C 157     188.286 122.144  16.941  1.00 70.35      CS3
ATOM  35612  CG2 ILE C 157     186.906 122.715  17.196  1.00 70.35      CS3
ATOM  35613  CG1 ILE C 157     189.302 123.266  16.782  1.00 70.35      CS3
ATOM  35614  CD1 ILE C 157     188.921 124.260  15.715  1.00 70.35      CS3
ATOM  35615  C   ILE C 157     187.577 120.244  18.379  1.00 48.61      CS3
ATOM  35616  O   ILE C 157     187.189 119.449  17.517  1.00 48.61      CS3
ATOM  35617  N   GLY C 158     187.057 120.294  19.599  1.00 66.85      CS3
ATOM  35618  CA  GLY C 158     185.978 119.401  19.969  1.00 66.85      CS3
ATOM  35619  C   GLY C 158     186.482 118.034  20.366  1.00 66.85      CS3
ATOM  35620  O   GLY C 158     185.693 117.123  20.605  1.00 66.85      CS3
ATOM  35621  N   GLY C 159     187.800 117.894  20.450  1.00 44.07      CS3
ATOM  35622  CA  GLY C 159     188.383 116.615  20.817  1.00 44.07      CS3
ATOM  35623  C   GLY C 159     188.486 115.719  19.596  1.00 44.07      CS3
ATOM  35624  O   GLY C 159     188.755 114.519  19.709  1.00 44.07      CS3
ATOM  35625  N   ALA C 160     188.260 116.318  18.426  1.00 90.56      CS3
ATOM  35626  CA  ALA C 160     188.320 115.613  17.150  1.00 90.56      CS3
ATOM  35627  CB  ALA C 160     188.092 116.591  16.003  1.00 54.87      CS3
ATOM  35628  C   ALA C 160     189.676 114.943  17.003  1.00 90.56      CS3
ATOM  35629  O   ALA C 160     190.712 115.545  17.301  1.00 90.56      CS3
ATOM  35630  N   GLU C 161     189.672 113.697  16.540  1.00 56.57      CS3
ATOM  35631  CA  GLU C 161     190.923 112.979  16.388  1.00 56.57      CS3
ATOM  35632  CB  GLU C 161     190.672 111.556  15.887  1.00200.98      CS3
ATOM  35633  CG  GLU C 161     191.904 110.661  15.960  1.00200.98      CS3
ATOM  35634  CD  GLU C 161     191.588 109.195  15.719  1.00200.98      CS3
ATOM  35635  OE1 GLU C 161     192.532 108.375  15.706  1.00200.98      CS3
ATOM  35636  OE2 GLU C 161     190.397 108.860  15.545  1.00200.98      CS3
ATOM  35637  C   GLU C 161     191.835 113.720  15.422  1.00 56.57      CS3
ATOM  35638  O   GLU C 161     193.024 113.873  15.677  1.00 56.57      CS3
ATOM  35639  N   GLN C 162     191.281 114.191  14.311  1.00 57.41      CS3
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ATOM  35640  CA  GLN C 162     192.093 114.904  13.334  1.00 57.41      CS3
ATOM  35641  CB  GLN C 162     191.539 114.715  11.919  1.00169.24      CS3
ATOM  35642  CG  GLN C 162     192.014 113.447  11.217  1.00169.24      CS3
ATOM  35643  CD  GLN C 162     193.514 113.435  10.980  1.00169.24      CS3
ATOM  35644  OE1 GLN C 162     194.071 114.377  10.415  1.00169.24      CS3
ATOM  35645  NE2 GLN C 162     194.176 112.362  11.405  1.00169.24      CS3
ATOM  35646  C   GLN C 162     192.159 116.373  13.655  1.00 57.41      CS3
ATOM  35647  O   GLN C 162     191.153 117.068  13.561  1.00 57.41      CS3
ATOM  35648  N   ALA C 163     193.347 116.834  14.039  1.00 36.68      CS3
ATOM  35649  CA  ALA C 163     193.565 118.239  14.366  1.00 36.68      CS3
ATOM  35650  CB  ALA C 163     195.040 118.492  14.580  1.00 39.81      CS3
ATOM  35651  C   ALA C 163     193.028 119.144  13.251  1.00 36.68      CS3
ATOM  35652  O   ALA C 163     193.032 118.766  12.079  1.00 36.68      CS3
ATOM  35653  N   ARG C 164     192.550 120.331  13.607  1.00 48.85      CS3
ATOM  35654  CA  ARG C 164     192.015 121.229  12.595  1.00 48.85      CS3
ATOM  35655  CB  ARG C 164     190.482 121.267  12.670  1.00 84.95      CS3
ATOM  35656  CG  ARG C 164     189.831 119.887  12.625  1.00 84.95      CS3
ATOM  35657  CD  ARG C 164     188.354 119.907  12.205  1.00 84.95      CS3
ATOM  35658  NE  ARG C 164     187.483 120.642  13.116  1.00 84.95      CS3
ATOM  35659  CZ  ARG C 164     187.186 121.930  12.986  1.00 84.95      CS3
ATOM  35660  NH1 ARG C 164     187.688 122.633  11.976  1.00 84.95      CS3
ATOM  35661  NH2 ARG C 164     186.387 122.514  13.868  1.00 84.95      CS3
ATOM  35662  C   ARG C 164     192.581 122.624  12.754  1.00 48.85      CS3
ATOM  35663  O   ARG C 164     193.738 122.782  13.110  1.00 48.85      CS3
ATOM  35664  N   THR C 165     191.767 123.631  12.470  1.00 50.70      CS3
ATOM  35665  CA  THR C 165     192.183 125.019  12.591  1.00 50.70      CS3
ATOM  35666  CB  THR C 165     193.300 125.362  11.581  1.00 56.97      CS3
ATOM  35667  OG1 THR C 165     194.552 124.880  12.082  1.00 56.97      CS3
ATOM  35668  CG2 THR C 165     193.411 126.864  11.377  1.00 56.97      CS3
ATOM  35669  C   THR C 165     190.991 125.950  12.387  1.00 50.70      CS3
ATOM  35670  O   THR C 165     190.601 126.247  11.252  1.00 50.70      CS3
ATOM  35671  N   GLU C 166     190.413 126.400  13.501  1.00 34.81      CS3
ATOM  35672  CA  GLU C 166     189.272 127.283  13.445  1.00 34.81      CS3
ATOM  35673  CB  GLU C 166     188.467 127.212  14.737  1.00178.37      CS3
ATOM  35674  CG  GLU C 166     186.965 127.236  14.492  1.00178.37      CS3
ATOM  35675  CD  GLU C 166     186.540 126.281  13.385  1.00178.37      CS3
ATOM  35676  OE1 GLU C 166     186.873 125.080  13.472  1.00178.37      CS3
ATOM  35677  OE2 GLU C 166     185.872 126.733  12.428  1.00178.37      CS3
ATOM  35678  C   GLU C 166     189.741 128.697  13.170  1.00 34.81      CS3
ATOM  35679  O   GLU C 166     190.660 129.219  13.819  1.00 34.81      CS3
ATOM  35680  N   TRP C 167     189.071 129.299  12.196  1.00 72.18      CS3
ATOM  35681  CA  TRP C 167     189.364 130.628  11.703  1.00 72.18      CS3
ATOM  35682  CB  TRP C 167     189.088 130.621  10.215  1.00 70.50      CS3
ATOM  35683  CG  TRP C 167     190.176 131.187   9.462  1.00 70.50      CS3
ATOM  35684  CD2 TRP C 167     190.120 132.351   8.651  1.00 70.50      CS3
ATOM  35685  CE2 TRP C 167     191.410 132.567   8.151  1.00 70.50      CS3
ATOM  35686  CE3 TRP C 167     189.099 133.237   8.298  1.00 70.50      CS3
ATOM  35687  CD1 TRP C 167     191.452 130.745   9.426  1.00 70.50      CS3
ATOM  35688  NE1 TRP C 167     192.209 131.568   8.641  1.00 70.50      CS3
ATOM  35689  CZ2 TRP C 167     191.716 133.640   7.314  1.00 70.50      CS3
ATOM  35690  CZ3 TRP C 167     189.399 134.301   7.470  1.00 70.50      CS3
ATOM  35691  CH2 TRP C 167     190.697 134.495   6.986  1.00 70.50      CS3
ATOM  35692  C   TRP C 167     188.611 131.782  12.362  1.00 72.18      CS3
ATOM  35693  O   TRP C 167     188.689 131.956  13.569  1.00 72.18      CS3
ATOM  35694  N   ALA C 168     187.907 132.570  11.541  1.00 29.75      CS3
ATOM  35695  CA  ALA C 168     187.101 133.740  11.950  1.00 29.75      CS3
ATOM  35696  CB  ALA C 168     186.426 133.478  13.281  1.00 91.98      CS3
ATOM  35697  C   ALA C 168     187.855 135.060  12.016  1.00 29.75      CS3
ATOM  35698  O   ALA C 168     188.867 135.172  12.693  1.00 29.75      CS3
ATOM  35699  N   ALA C 169     187.354 136.065  11.316  1.00 35.19      CS3
ATOM  35700  CA  ALA C 169     187.995 137.373  11.336  1.00 35.19      CS3
ATOM  35701  CB  ALA C 169     189.331 137.287  10.704  1.00 15.27      CS3
ATOM  35702  C   ALA C 169     187.155 138.429  10.628  1.00 35.19      CS3
ATOM  35703  O   ALA C 169     186.366 138.101   9.731  1.00 35.19      CS3
ATOM  35704  N   GLN C 170     187.321 139.692  11.031  1.00 22.48      CS3
ATOM  35705  CA  GLN C 170     186.560 140.801  10.443  1.00 22.48      CS3
ATOM  35706  CB  GLN C 170     185.308 141.068  11.283  1.00153.16      CS3
ATOM  35707  CG  GLN C 170     184.211 141.823  10.558  1.00153.16      CS3
ATOM  35708  CD  GLN C 170     182.968 141.987  11.410  1.00153.16      CS3
ATOM  35709  OE1 GLN C 170     182.972 142.713  12.405  1.00153.16      CS3
ATOM  35710  NE2 GLN C 170     181.894 141.303  11.027  1.00153.16      CS3
ATOM  35711  C   GLN C 170     187.408 142.074  10.337  1.00 22.48      CS3
ATOM  35712  O   GLN C 170     188.390 142.237  11.072  1.00 22.48      CS3
ATOM  35713  N   GLY C 171     187.032 142.958   9.409  1.00 47.29      CS3
ATOM  35714  CA  GLY C 171     187.762 144.203   9.208  1.00 47.29      CS3
ATOM  35715  C   GLY C 171     189.206 144.050   8.742  1.00 47.29      CS3
ATOM  35716  O   GLY C 171     189.750 142.952   8.736  1.00 47.29      CS3
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ATOM  35717  N   ARG C 172     189.831 145.158   8.353  1.00 46.32      CS3
ATOM  35718  CA  ARG C 172     191.221 145.166   7.890  1.00 46.32      CS3
ATOM  35719  CB  ARG C 172     191.661 146.595   7.585  1.00 83.95      CS3
ATOM  35720  CG  ARG C 172     190.849 147.275   6.515  1.00 83.95      CS3
ATOM  35721  CD  ARG C 172     191.569 147.227   5.192  1.00 83.95      CS3
ATOM  35722  NE  ARG C 172     192.214 148.499   4.867  1.00 83.95      CS3
ATOM  35723  CZ  ARG C 172     193.200 149.057   5.566  1.00 83.95      CS3
ATOM  35724  NH1 ARG C 172     193.680 148.460   6.653  1.00 83.95      CS3
ATOM  35725  NH2 ARG C 172     193.707 150.222   5.174  1.00 83.95      CS3
ATOM  35726  C   ARG C 172     192.160 144.597   8.939  1.00 46.32      CS3
ATOM  35727  O   ARG C 172     192.146 145.033  10.084  1.00 46.32      CS3
ATOM  35728  N   VAL C 173     192.973 143.622   8.548  1.00 40.49      CS3
ATOM  35729  CA  VAL C 173     193.958 143.015   9.451  1.00 40.49      CS3
ATOM  35730  CB  VAL C 173     193.474 141.651   9.974  1.00 55.03      CS3
ATOM  35731  CG1 VAL C 173     194.118 141.351  11.328  1.00 55.03      CS3
ATOM  35732  CG2 VAL C 173     191.963 141.643  10.070  1.00 55.03      CS3
ATOM  35733  C   VAL C 173     195.271 142.815   8.666  1.00 40.49      CS3
ATOM  35734  O   VAL C 173     195.865 141.740   8.681  1.00 40.49      CS3
ATOM  35735  N   PRO C 174     195.744 143.873   7.986  1.00 53.25      CS3
ATOM  35736  CD  PRO C 174     195.220 145.253   8.065  1.00 50.77      CS3
ATOM  35737  CA  PRO C 174     196.967 143.839   7.185  1.00 53.25      CS3
ATOM  35738  CB  PRO C 174     196.986 145.226   6.558  1.00 50.77      CS3
ATOM  35739  CG  PRO C 174     196.396 146.076   7.629  1.00 50.77      CS3
ATOM  35740  C   PRO C 174     198.256 143.521   7.929  1.00 53.25      CS3
ATOM  35741  O   PRO C 174     198.784 144.367   8.637  1.00 53.25      CS3
ATOM  35742  N   LEU C 175     198.772 142.309   7.755  1.00 38.59      CS3
ATOM  35743  CA  LEU C 175     200.006 141.931   8.426  1.00 38.59      CS3
ATOM  35744  CB  LEU C 175     200.074 140.423   8.669  1.00 34.51      CS3
ATOM  35745  CG  LEU C 175     199.087 139.714   9.596  1.00 34.51      CS3
ATOM  35746  CD1 LEU C 175     199.815 138.546  10.259  1.00 34.51      CS3
ATOM  35747  CD2 LEU C 175     198.551 140.665  10.655  1.00 34.51      CS3
ATOM  35748  C   LEU C 175     201.226 142.341   7.623  1.00 38.59      CS3
ATOM  35749  O   LEU C 175     202.303 142.545   8.175  1.00 38.59      CS3
ATOM  35750  N   HIS C 176     201.068 142.452   6.314  1.00 61.50      CS3
ATOM  35751  CA  HIS C 176     202.195 142.832   5.479  1.00 61.50      CS3
ATOM  35752  CB  HIS C 176     201.899 142.539   4.004  1.00 53.45      CS3
ATOM  35753  CG  HIS C 176     202.332 141.180   3.556  1.00 53.45      CS3
ATOM  35754  CD2 HIS C 176     203.314 140.793   2.709  1.00 53.45      CS3
ATOM  35755  ND1 HIS C 176     201.726 140.022   3.993  1.00 53.45      CS3
ATOM  35756  CE1 HIS C 176     202.313 138.980   3.433  1.00 53.45      CS3
ATOM  35757  NE2 HIS C 176     203.281 139.421   2.648  1.00 53.45      CS3
ATOM  35758  C   HIS C 176     202.527 144.308   5.646  1.00 61.50      CS3
ATOM  35759  O   HIS C 176     203.698 144.697   5.587  1.00 61.50      CS3
ATOM  35760  N   THR C 177     201.492 145.125   5.850  1.00 63.01      CS3
ATOM  35761  CA  THR C 177     201.688 146.558   6.007  1.00 63.01      CS3
ATOM  35762  CB  THR C 177     200.373 147.333   5.810  1.00 53.34      CS3
ATOM  35763  OG1 THR C 177     200.642 148.738   5.790  1.00 53.34      CS3
ATOM  35764  CG2 THR C 177     199.418 147.031   6.916  1.00 53.34      CS3
ATOM  35765  C   THR C 177     202.309 146.867   7.366  1.00 63.01      CS3
ATOM  35766  O   THR C 177     201.646 146.993   8.396  1.00 63.01      CS3
ATOM  35767  N   LEU C 178     203.630 146.954   7.320  1.00 82.85      CS3
ATOM  35768  CA  LEU C 178     204.500 147.226   8.448  1.00 82.85      CS3
ATOM  35769  CB  LEU C 178     205.936 147.045   7.967  1.00 55.15      CS3
ATOM  35770  CG  LEU C 178     207.161 147.413   8.783  1.00 55.15      CS3
ATOM  35771  CD1 LEU C 178     207.442 146.361   9.857  1.00 55.15      CS3
ATOM  35772  CD2 LEU C 178     208.328 147.523   7.812  1.00 55.15      CS3
ATOM  35773  C   LEU C 178     204.289 148.646   8.901  1.00 82.85      CS3
ATOM  35774  O   LEU C 178     204.931 149.544   8.381  1.00 82.85      CS3
ATOM  35775  N   ARG C 179     203.400 148.848   9.864  1.00 80.86      CS3
ATOM  35776  CA  ARG C 179     203.113 150.186  10.372  1.00 80.86      CS3
ATOM  35777  CB  ARG C 179     203.304 151.237   9.275  1.00 76.87      CS3
ATOM  35778  CG  ARG C 179     202.605 152.556   9.506  1.00 76.87      CS3
ATOM  35779  CD  ARG C 179     201.110 152.455   9.252  1.00 76.87      CS3
ATOM  35780  NE  ARG C 179     200.761 152.333   7.840  1.00 76.87      CS3
ATOM  35781  CZ  ARG C 179     200.894 153.309   6.940  1.00 76.87      CS3
ATOM  35782  NH1 ARG C 179     201.378 154.494   7.292  1.00 76.87      CS3
ATOM  35783  NH2 ARG C 179     200.517 153.112   5.684  1.00 76.87      CS3
ATOM  35784  C   ARG C 179     201.694 150.280  10.884  1.00 80.86      CS3
ATOM  35785  O   ARG C 179     201.434 150.931  11.891  1.00 80.86      CS3
ATOM  35786  N   ALA C 180     200.777 149.655  10.157  1.00 87.79      CS3
ATOM  35787  CA  ALA C 180     199.366 149.666  10.507  1.00 87.79      CS3
ATOM  35788  CB  ALA C 180     198.681 148.481   9.873  1.00115.29      CS3
ATOM  35789  C   ALA C 180     199.138 149.645  12.011  1.00 87.79      CS3
ATOM  35790  O   ALA C 180     198.271 150.359  12.529  1.00 87.79      CS3
ATOM  35791  N   ASN C 181     199.931 148.831  12.702  1.00 75.71      CS3
ATOM  35792  CA  ASN C 181     199.831 148.675  14.149  1.00 75.71      CS3
ATOM  35793  CB  ASN C 181     199.413 149.962  14.856  1.00108.08      CS3
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ATOM  35794  CG  ASN C 181     199.217 149.758  16.347  1.00108.08      CS3
ATOM  35795  OD1 ASN C 181     198.670 148.743  16.779  1.00108.08      CS3
ATOM  35796  ND2 ASN C 181     199.658 150.723  17.140  1.00108.08      CS3
ATOM  35797  C   ASN C 181     198.793 147.632  14.454  1.00 75.71      CS3
ATOM  35798  O   ASN C 181     197.597 147.912  14.520  1.00 75.71      CS3
ATOM  35799  N   ILE C 182     199.262 146.421  14.658  1.00 63.43      CS3
ATOM  35800  CA  ILE C 182     198.369 145.335  14.957  1.00 63.43      CS3
ATOM  35801  CB  ILE C 182     198.395 144.310  13.810  1.00 42.43      CS3
ATOM  35802  CG2 ILE C 182     197.650 143.051  14.220  1.00 42.43      CS3
ATOM  35803  CG1 ILE C 182     197.831 144.965  12.537  1.00 42.43      CS3
ATOM  35804  CD1 ILE C 182     197.673 144.027  11.345  1.00 42.43      CS3
ATOM  35805  C   ILE C 182     198.838 144.710  16.256  1.00 63.43      CS3
ATOM  35806  O   ILE C 182     200.034 144.500  16.451  1.00 63.43      CS3
ATOM  35807  N   ASP C 183     197.909 144.448  17.166  1.00 50.47      CS3
ATOM  35808  CA  ASP C 183     198.297 143.839  18.423  1.00 50.47      CS3
ATOM  35809  CB  ASP C 183     197.462 144.372  19.592  1.00101.96      CS3
ATOM  35810  CG  ASP C 183     198.027 143.959  20.952  1.00101.96      CS3
ATOM  35811  OD1 ASP C 183     197.503 144.429  21.985  1.00101.96      CS3
ATOM  35812  OD2 ASP C 183     198.993 143.164  20.989  1.00101.96      CS3
ATOM  35813  C   ASP C 183     198.136 142.343  18.305  1.00 50.47      CS3
ATOM  35814  O   ASP C 183     197.125 141.833  17.805  1.00 50.47      CS3
ATOM  35815  N   TYR C 184     199.156 141.641  18.766  1.00 50.76      CS3
ATOM  35816  CA  TYR C 184     199.155 140.199  18.709  1.00 50.76      CS3
ATOM  35817  CB  TYR C 184     200.459 139.717  18.101  1.00 52.09      CS3
ATOM  35818  CG  TYR C 184     200.663 138.223  18.169  1.00 52.09      CS3
ATOM  35819  CD1 TYR C 184     200.097 137.377  17.220  1.00 52.09      CS3
ATOM  35820  CE1 TYR C 184     200.329 136.021  17.256  1.00 52.09      CS3
ATOM  35821  CD2 TYR C 184     201.460 137.665  19.162  1.00 52.09      CS3
ATOM  35822  CE2 TYR C 184     201.696 136.317  19.206  1.00 52.09      CS3
ATOM  35823  CZ  TYR C 184     201.135 135.497  18.251  1.00 52.09      CS3
ATOM  35824  OH  TYR C 184     201.408 134.148  18.287  1.00 52.09      CS3
ATOM  35825  C   TYR C 184     198.994 139.583  20.079  1.00 50.76      CS3
ATOM  35826  O   TYR C 184     199.462 140.120  21.078  1.00 50.76      CS3
ATOM  35827  N   GLY C 185     198.340 138.436  20.116  1.00 41.81      CS3
ATOM  35828  CA  GLY C 185     198.154 137.765  21.374  1.00 41.81      CS3
ATOM  35829  C   GLY C 185     197.999 136.279  21.180  1.00 41.81      CS3
ATOM  35830  O   GLY C 185     197.141 135.822  20.420  1.00 41.81      CS3
ATOM  35831  N   PHE C 186     198.847 135.523  21.859  1.00 34.18      CS3
ATOM  35832  CA  PHE C 186     198.781 134.076  21.790  1.00 34.18      CS3
ATOM  35833  CB  PHE C 186     200.159 133.464  21.521  1.00 50.23      CS3
ATOM  35834  CG  PHE C 186     200.202 131.970  21.698  1.00 50.23      CS3
ATOM  35835  CD1 PHE C 186     199.417 131.137  20.909  1.00 50.23      CS3
ATOM  35836  CD2 PHE C 186     201.007 131.396  22.676  1.00 50.23      CS3
ATOM  35837  CE1 PHE C 186     199.432 129.748  21.097  1.00 50.23      CS3
ATOM  35838  CE2 PHE C 186     201.028 130.012  22.867  1.00 50.23      CS3
ATOM  35839  CZ  PHE C 186     200.239 129.188  22.077  1.00 50.23      CS3
ATOM  35840  C   PHE C 186     198.280 133.608  23.136  1.00 34.18      CS3
ATOM  35841  O   PHE C 186     198.365 134.340  24.114  1.00 34.18      CS3
ATOM  35842  N   ALA C 187     197.760 132.390  23.177  1.00 31.93      CS3
ATOM  35843  CA  ALA C 187     197.246 131.816  24.400  1.00 31.93      CS3
ATOM  35844  CB  ALA C 187     195.876 132.355  24.676  1.00 12.19      CS3
ATOM  35845  C   ALA C 187     197.183 130.318  24.217  1.00 31.93      CS3
ATOM  35846  O   ALA C 187     196.565 129.824  23.261  1.00 31.93      CS3
ATOM  35847  N   LEU C 188     197.833 129.607  25.135  1.00 45.66      CS3
ATOM  35848  CA  LEU C 188     197.885 128.149  25.137  1.00 45.66      CS3
ATOM  35849  CB  LEU C 188     198.904 127.717  26.191  1.00 71.56      CS3
ATOM  35850  CG  LEU C 188     199.586 126.357  26.095  1.00 71.56      CS3
ATOM  35851  CD1 LEU C 188     198.698 125.284  26.666  1.00 71.56      CS3
ATOM  35852  CD2 LEU C 188     199.945 126.078  24.654  1.00 71.56      CS3
ATOM  35853  C   LEU C 188     196.477 127.662  25.489  1.00 45.66      CS3
ATOM  35854  O   LEU C 188     195.530 128.435  25.399  1.00 45.66      CS3
ATOM  35855  N   ALA C 189     196.310 126.399  25.867  1.00 51.01      CS3
ATOM  35856  CA  ALA C 189     194.980 125.912  26.251  1.00 51.01      CS3
ATOM  35857  CB  ALA C 189     193.928 126.242  25.163  1.00  2.30      CS3
ATOM  35858  C   ALA C 189     194.937 124.431  26.555  1.00 51.01      CS3
ATOM  35859  O   ALA C 189     194.198 123.703  25.903  1.00 51.01      CS3
ATOM  35860  N   ARG C 190     195.713 123.994  27.548  1.00 62.44      CS3
ATOM  35861  CA  ARG C 190     195.747 122.586  27.946  1.00 62.44      CS3
ATOM  35862  CB  ARG C 190     196.383 122.426  29.326  1.00116.64      CS3
ATOM  35863  CG  ARG C 190     197.815 122.914  29.456  1.00116.64      CS3
ATOM  35864  CD  ARG C 190     198.381 122.625  30.851  1.00116.64      CS3
ATOM  35865  NE  ARG C 190     198.801 121.230  31.045  1.00116.64      CS3
ATOM  35866  CZ  ARG C 190     197.989 120.170  31.091  1.00116.64      CS3
ATOM  35867  NH1 ARG C 190     196.677 120.309  30.960  1.00116.64      CS3
ATOM  35868  NH2 ARG C 190     198.494 118.955  31.275  1.00116.64      CS3
ATOM  35869  C   ARG C 190     194.316 122.062  27.998  1.00 62.44      CS3
ATOM  35870  O   ARG C 190     193.374 122.824  28.228  1.00 62.44      CS3
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ATOM  35871  N   THR C 191     194.154 120.760  27.801  1.00 53.66      CS3
ATOM  35872  CA  THR C 191     192.831 120.160  27.798  1.00 53.66      CS3
ATOM  35873  CB  THR C 191     192.323 120.042  26.355  1.00 30.39      CS3
ATOM  35874  OG1 THR C 191     192.134 121.360  25.843  1.00 30.39      CS3
ATOM  35875  CG2 THR C 191     190.996 119.321  26.273  1.00 30.39      CS3
ATOM  35876  C   THR C 191     192.818 118.804  28.475  1.00 53.66      CS3
ATOM  35877  O   THR C 191     193.464 118.612  29.498  1.00 53.66      CS3
ATOM  35878  N   THR C 192     192.059 117.877  27.909  1.00 78.40      CS3
ATOM  35879  CA  THR C 192     191.925 116.531  28.427  1.00 78.40      CS3
ATOM  35880  CB  THR C 192     190.469 116.223  28.793  1.00117.10      CS3
ATOM  35881  OG1 THR C 192     189.944 117.287  29.597  1.00117.10      CS3
ATOM  35882  CG2 THR C 192     190.379 114.907  29.554  1.00117.10      CS3
ATOM  35883  C   THR C 192     192.285 115.699  27.231  1.00 78.40      CS3
ATOM  35884  O   THR C 192     192.477 114.488  27.318  1.00 78.40      CS3
ATOM  35885  N   TYR C 193     192.368 116.381  26.098  1.00 69.47      CS3
ATOM  35886  CA  TYR C 193     192.689 115.727  24.850  1.00 69.47      CS3
ATOM  35887  CB  TYR C 193     191.435 115.661  23.980  1.00 71.49      CS3
ATOM  35888  CG  TYR C 193     190.794 117.000  23.709  1.00 71.49      CS3
ATOM  35889  CD1 TYR C 193     191.499 118.019  23.072  1.00 71.49      CS3
ATOM  35890  CE1 TYR C 193     190.905 119.237  22.787  1.00 71.49      CS3
ATOM  35891  CD2 TYR C 193     189.472 117.237  24.061  1.00 71.49      CS3
ATOM  35892  CE2 TYR C 193     188.863 118.453  23.783  1.00 71.49      CS3
ATOM  35893  CZ  TYR C 193     189.583 119.451  23.144  1.00 71.49      CS3
ATOM  35894  OH  TYR C 193     188.979 120.657  22.851  1.00 71.49      CS3
ATOM  35895  C   TYR C 193     193.813 116.434  24.102  1.00 69.47      CS3
ATOM  35896  O   TYR C 193     193.904 116.340  22.878  1.00 69.47      CS3
ATOM  35897  N   GLY C 194     194.664 117.146  24.833  1.00 74.85      CS3
ATOM  35898  CA  GLY C 194     195.757 117.845  24.183  1.00 74.85      CS3
ATOM  35899  C   GLY C 194     195.593 119.350  24.050  1.00 74.85      CS3
ATOM  35900  O   GLY C 194     194.493 119.896  24.072  1.00 74.85      CS3
ATOM  35901  N   VAL C 195     196.725 120.009  23.880  1.00 49.89      CS3
ATOM  35902  CA  VAL C 195     196.800 121.450  23.764  1.00 49.89      CS3
ATOM  35903  CB  VAL C 195     198.241 121.886  23.878  1.00 44.05      CS3
ATOM  35904  CG1 VAL C 195     198.304 123.372  24.161  1.00 44.05      CS3
ATOM  35905  CG2 VAL C 195     198.941 121.056  24.926  1.00 44.05      CS3
ATOM  35906  C   VAL C 195     196.275 122.051  22.469  1.00 49.89      CS3
ATOM  35907  O   VAL C 195     196.402 121.451  21.406  1.00 49.89      CS3
ATOM  35908  N   LEU C 196     195.699 123.246  22.562  1.00 34.66      CS3
ATOM  35909  CA  LEU C 196     195.208 123.964  21.388  1.00 34.66      CS3
ATOM  35910  CB  LEU C 196     193.685 123.919  21.286  1.00 51.38      CS3
ATOM  35911  CG  LEU C 196     192.881 122.748  21.860  1.00 51.38      CS3
ATOM  35912  CD1 LEU C 196     191.509 122.761  21.197  1.00 51.38      CS3
ATOM  35913  CD2 LEU C 196     193.552 121.406  21.611  1.00 51.38      CS3
ATOM  35914  C   LEU C 196     195.656 125.407  21.582  1.00 34.66      CS3
ATOM  35915  O   LEU C 196     195.401 125.997  22.620  1.00 34.66      CS3
ATOM  35916  N   GLY C 197     196.337 125.980  20.602  1.00 50.27      CS3
ATOM  35917  CA  GLY C 197     196.796 127.346  20.764  1.00 50.27      CS3
ATOM  35918  C   GLY C 197     195.819 128.320  20.161  1.00 50.27      CS3
ATOM  35919  O   GLY C 197     195.182 128.010  19.154  1.00 50.27      CS3
ATOM  35920  N   VAL C 198     195.685 129.496  20.764  1.00 29.15      CS3
ATOM  35921  CA  VAL C 198     194.760 130.476  20.224  1.00 29.15      CS3
ATOM  35922  CB  VAL C 198     193.621 130.791  21.201  1.00 51.07      CS3
ATOM  35923  CG1 VAL C 198     192.710 131.858  20.599  1.00 51.07      CS3
ATOM  35924  CG2 VAL C 198     192.832 129.531  21.498  1.00 51.07      CS3
ATOM  35925  C   VAL C 198     195.459 131.765  19.888  1.00 29.15      CS3
ATOM  35926  O   VAL C 198     196.128 132.353  20.731  1.00 29.15      CS3
ATOM  35927  N   LYS C 199     195.287 132.210  18.652  1.00 34.62      CS3
ATOM  35928  CA  LYS C 199     195.917 133.437  18.206  1.00 34.62      CS3
ATOM  35929  CB  LYS C 199     196.674 133.181  16.903  1.00142.09      CS3
ATOM  35930  CG  LYS C 199     197.728 132.100  17.035  1.00142.09      CS3
ATOM  35931  CD  LYS C 199     198.424 131.813  15.720  1.00142.09      CS3
ATOM  35932  CE  LYS C 199     199.406 130.664  15.887  1.00142.09      CS3
ATOM  35933  NZ  LYS C 199     200.122 130.326  14.629  1.00142.09      CS3
ATOM  35934  C   LYS C 199     194.899 134.551  18.018  1.00 34.62      CS3
ATOM  35935  O   LYS C 199     193.798 134.319  17.511  1.00 34.62      CS3
ATOM  35936  N   ALA C 200     195.278 135.762  18.421  1.00 28.94      CS3
ATOM  35937  CA  ALA C 200     194.395 136.914  18.307  1.00 28.94      CS3
ATOM  35938  CB  ALA C 200     193.842 137.272  19.676  1.00 79.48      CS3
ATOM  35939  C   ALA C 200     195.115 138.111  17.708  1.00 28.94      CS3
ATOM  35940  O   ALA C 200     196.200 138.485  18.150  1.00 28.94      CS3
ATOM  35941  N   TYR C 201     194.499 138.717  16.706  1.00 39.18      CS3
ATOM  35942  CA  TYR C 201     195.084 139.871  16.046  1.00 39.18      CS3
ATOM  35943  CB  TYR C 201     195.364 139.568  14.565  1.00 62.11      CS3
ATOM  35944  CG  TYR C 201     196.351 138.451  14.286  1.00 62.11      CS3
ATOM  35945  CD1 TYR C 201     196.057 137.134  14.626  1.00 62.11      CS3
ATOM  35946  CE1 TYR C 201     196.946 136.109  14.352  1.00 62.11      CS3
ATOM  35947  CD2 TYR C 201     197.574 138.713  13.661  1.00 62.11      CS3
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ATOM  35948  CE2 TYR C 201     198.471 137.696  13.386  1.00 62.11       CS3
ATOM  35949  CZ  TYR C 201     198.149 136.394  13.732  1.00 62.11       CS3
ATOM  35950  OH  TYR C 201     199.017 135.363  13.443  1.00 62.11       CS3
ATOM  35951  C   TYR C 201     194.101 141.024  16.109  1.00 39.18       CS3
ATOM  35952  O   TYR C 201     192.939 140.876  15.713  1.00 39.18       CS3
ATOM  35953  N   ILE C 202     194.550 142.182  16.581  1.00 39.31       CS3
ATOM  35954  CA  ILE C 202     193.652 143.330  16.636  1.00 39.31       CS3
ATOM  35955  CB  ILE C 202     193.324 143.710  18.078  1.00 57.81       CS3
ATOM  35956  CG2 ILE C 202     192.298 144.838  18.077  1.00 57.81       CS3
ATOM  35957  CG1 ILE C 202     192.798 142.475  18.822  1.00 57.81       CS3
ATOM  35958  CD1 ILE C 202     192.388 142.719  20.254  1.00 57.81       CS3
ATOM  35959  C   ILE C 202     194.200 144.549  15.907  1.00 39.31       CS3
ATOM  35960  O   ILE C 202     195.214 145.122  16.285  1.00 39.31       CS3
ATOM  35961  N   PHE C 203     193.516 144.945  14.850  1.00 46.04       CS3
ATOM  35962  CA  PHE C 203     193.958 146.087  14.083  1.00 46.04       CS3
ATOM  35963  CB  PHE C 203     193.487 145.949  12.636  1.00 42.02       CS3
ATOM  35964  CG  PHE C 203     193.923 147.072  11.747  1.00 42.02       CS3
ATOM  35965  CD1 PHE C 203     195.193 147.607  11.859  1.00 42.02       CS3
ATOM  35966  CD2 PHE C 203     193.068 147.582  10.782  1.00 42.02       CS3
ATOM  35967  CE1 PHE C 203     195.598 148.631  11.027  1.00 42.02       CS3
ATOM  35968  CE2 PHE C 203     193.470 148.610   9.938  1.00 42.02       CS3
ATOM  35969  CZ  PHE C 203     194.733 149.135  10.061  1.00 42.02       CS3
ATOM  35970  C   PHE C 203     193.430 147.373  14.694  1.00 46.04       CS3
ATOM  35971  O   PHE C 203     192.233 147.501  14.944  1.00 46.04       CS3
ATOM  35972  N   LEU C 204     194.341 148.315  14.938  1.00 91.30       CS3
ATOM  35973  CA  LEU C 204     194.012 149.615  15.525  1.00 91.30       CS3
ATOM  35974  CB  LEU C 204     194.520 149.702  16.968  1.00 47.75       CS3
ATOM  35975  CG  LEU C 204     194.503 148.441  17.845  1.00 47.75       CS3
ATOM  35976  CD1 LEU C 204     195.347 148.682  19.087  1.00 47.75       CS3
ATOM  35977  CD2 LEU C 204     193.068 148.052  18.220  1.00 47.75       CS3
ATOM  35978  C   LEU C 204     194.717 150.694  14.715  1.00 91.30       CS3
ATOM  35979  O   LEU C 204     195.944 150.677  14.600  1.00 91.30       CS3
ATOM  35980  N   GLY C 205     193.946 151.625  14.160  1.00 76.24       CS3
ATOM  35981  CA  GLY C 205     194.517 152.713  13.374  1.00 76.24       CS3
ATOM  35982  C   GLY C 205     195.731 152.408  12.498  1.00 76.24       CS3
ATOM  35983  O   GLY C 205     196.014 151.252  12.185  1.00 76.24       CS3
ATOM  35984  N   GLU C 206     196.464 153.450  12.108  1.00123.98       CS3
ATOM  35985  CA  GLU C 206     197.630 153.265  11.253  1.00123.98       CS3
ATOM  35986  CB  GLU C 206     197.212 153.439   9.789  1.00 80.65       CS3
ATOM  35987  CG  GLU C 206     197.707 152.338   8.855  1.00 80.65       CS3
ATOM  35988  CD  GLU C 206     197.096 152.429   7.465  1.00 80.65       CS3
ATOM  35989  OE1 GLU C 206     197.402 151.562   6.619  1.00 80.65       CS3
ATOM  35990  OE2 GLU C 206     196.307 153.366   7.219  1.00 80.65       CS3
ATOM  35991  C   GLU C 206     198.831 154.170  11.572  1.00123.98       CS3
ATOM  35992  O   GLU C 206     199.445 154.032  12.630  1.00123.98       CS3
ATOM  35993  N   VAL C 207     199.144 155.081  10.645  1.00 82.99       CS3
ATOM  35994  CA  VAL C 207     200.278 156.025  10.717  1.00 82.99       CS3
ATOM  35995  CB  VAL C 207     199.785 157.503  10.742  1.00 75.33       CS3
ATOM  35996  CG1 VAL C 207     200.962 158.456  10.918  1.00 75.33       CS3
ATOM  35997  CG2 VAL C 207     199.068 157.831   9.443  1.00 75.33       CS3
ATOM  35998  C   VAL C 207     201.306 155.838  11.837  1.00 82.99       CS3
ATOM  35999  O   VAL C 207     200.921 155.611  13.003  1.00 82.99       CS3
ATOM  36000  OXT VAL C 207     202.511 155.945  11.517  1.00 75.33       CS3
TER   36000       VAL C 207                                               CS3
ATOM  36001  C   GLY D   2     149.879  96.789  32.827  1.00 78.84       DS4
ATOM  36002  O   GLY D   2     150.471  96.562  33.883  1.00 78.84       DS4
ATOM  36003  N   GLY D   2     149.232  94.429  32.196  1.00 78.84       DS4
ATOM  36004  CA  GLY D   2     149.799  95.732  31.738  1.00 78.84       DS4
ATOM  36005  N   ARG D   3     149.293  97.952  32.563  1.00 54.24       DS4
ATOM  36006  CA  ARG D   3     149.281  99.054  33.518  1.00 54.24       DS4
ATOM  36007  CB  ARG D   3     148.623  98.615  34.835  1.00201.30       DS4
ATOM  36008  CG  ARG D   3     147.309  97.861  34.681  1.00201.30       DS4
ATOM  36009  CD  ARG D   3     146.346  98.581  33.752  1.00201.30       DS4
ATOM  36010  NE  ARG D   3     146.716  98.436  32.346  1.00201.30       DS4
ATOM  36011  CZ  ARG D   3     146.086  99.032  31.337  1.00201.30       DS4
ATOM  36012  NH1 ARG D   3     145.047  99.824  31.568  1.00201.30       DS4
ATOM  36013  NH2 ARG D   3     146.496  98.834  30.091  1.00201.30       DS4
ATOM  36014  C   ARG D   3     150.665  99.628  33.826  1.00 54.24       DS4
ATOM  36015  O   ARG D   3     150.934 100.028  34.958  1.00 54.24       DS4
ATOM  36016  N   TYR D   4     151.530  99.698  32.823  1.00126.31       DS4
ATOM  36017  CA  TYR D   4     152.876 100.217  33.033  1.00126.31       DS4
ATOM  36018  CB  TYR D   4     152.898 101.754  33.012  1.00 65.52       DS4
ATOM  36019  CG  TYR D   4     154.233 102.309  33.470  1.00 65.52       DS4
ATOM  36020  CD1 TYR D   4     155.406 101.997  32.791  1.00 65.52       DS4
ATOM  36021  CE1 TYR D   4     156.645 102.390  33.270  1.00 65.52       DS4
ATOM  36022  CD2 TYR D   4     154.339 103.047  34.639  1.00 65.52       DS4
ATOM  36023  CE2 TYR D   4     155.576 103.446  35.126  1.00 65.52       DS4
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ATOM  36024  CZ  TYR D   4     156.723 103.107  34.438  1.00 65.52      DS4
ATOM  36025  OH  TYR D   4     157.954 103.445  34.942  1.00 65.52      DS4
ATOM  36026  C   TYR D   4     153.478  99.752  34.356  1.00126.31      DS4
ATOM  36027  O   TYR D   4     154.227  98.772  34.405  1.00126.31      DS4
ATOM  36028  N   ILE D   5     153.132 100.467  35.424  1.00118.86      DS4
ATOM  36029  CA  ILE D   5     153.646 100.193  36.759  1.00118.86      DS4
ATOM  36030  CB  ILE D   5     153.534  98.715  37.148  1.00 55.84      DS4
ATOM  36031  CG2 ILE D   5     154.250  98.470  38.459  1.00 55.84      DS4
ATOM  36032  CG1 ILE D   5     152.073  98.326  37.295  1.00 55.84      DS4
ATOM  36033  CD1 ILE D   5     151.886  96.845  37.364  1.00 55.84      DS4
ATOM  36034  C   ILE D   5     155.110 100.566  36.741  1.00118.86      DS4
ATOM  36035  O   ILE D   5     155.791 100.424  35.724  1.00118.86      DS4
ATOM  36036  N   GLY D   6     155.603 101.042  37.869  1.00 29.32      DS4
ATOM  36037  CA  GLY D   6     156.990 101.434  37.907  1.00 29.32      DS4
ATOM  36038  C   GLY D   6     157.041 102.926  38.090  1.00 29.32      DS4
ATOM  36039  O   GLY D   6     156.007 103.586  38.017  1.00 29.32      DS4
ATOM  36040  N   PRO D   7     158.231 103.488  38.318  1.00 45.63      DS4
ATOM  36041  CD  PRO D   7     159.518 102.870  37.982  1.00 42.53      DS4
ATOM  36042  CA  PRO D   7     158.399 104.923  38.518  1.00 45.63      DS4
ATOM  36043  CB  PRO D   7     159.899 105.118  38.358  1.00 42.53      DS4
ATOM  36044  CG  PRO D   7     160.269 104.032  37.432  1.00 42.53      DS4
ATOM  36045  C   PRO D   7     157.602 105.699  37.501  1.00 45.63      DS4
ATOM  36046  O   PRO D   7     157.659 105.409  36.308  1.00 45.63      DS4
ATOM  36047  N   VAL D   8     156.843 106.678  37.976  1.00 42.36      DS4
ATOM  36048  CA  VAL D   8     156.038 107.482  37.080  1.00 42.36      DS4
ATOM  36049  CB  VAL D   8     154.574 107.509  37.526  1.00 49.90      DS4
ATOM  36050  CG1 VAL D   8     153.741 106.716  36.557  1.00 49.90      DS4
ATOM  36051  CG2 VAL D   8     154.443 106.920  38.918  1.00 49.90      DS4
ATOM  36052  C   VAL D   8     156.572 108.902  36.978  1.00 42.36      DS4
ATOM  36053  O   VAL D   8     156.702 109.435  35.877  1.00 42.36      DS4
ATOM  36054  N   CYS D   9     156.893 109.519  38.113  1.00115.03      DS4
ATOM  36055  CA  CYS D   9     157.416 110.878  38.072  1.00115.03      DS4
ATOM  36056  CB  CYS D   9     157.815 111.358  39.492  1.00 35.24      DS4
ATOM  36057  SG  CYS D   9     156.764 112.725  40.172  1.00 35.24      DS4
ATOM  36058  C   CYS D   9     158.603 110.892  37.088  1.00115.03      DS4
ATOM  36059  O   CYS D   9     159.114 111.950  36.721  1.00115.03      DS4
ATOM  36060  N   ARG D  10     159.011 109.709  36.629  1.00 46.79      DS4
ATOM  36061  CA  ARG D  10     160.117 109.603  35.672  1.00 46.79      DS4
ATOM  36062  CB  ARG D  10     160.788 108.229  35.733  1.00 39.78      DS4
ATOM  36063  CG  ARG D  10     160.199 107.203  34.781  1.00 39.78      DS4
ATOM  36064  CD  ARG D  10     160.768 105.823  35.043  1.00 39.78      DS4
ATOM  36065  NE  ARG D  10     162.216 105.778  34.892  1.00 39.78      DS4
ATOM  36066  CZ  ARG D  10     162.839 106.068  33.758  1.00 39.78      DS4
ATOM  36067  NH1 ARG D  10     162.135 106.427  32.691  1.00 39.78      DS4
ATOM  36068  NH2 ARG D  10     164.156 105.974  33.679  1.00 39.78      DS4
ATOM  36069  C   ARG D  10     159.629 109.838  34.253  1.00 46.79      DS4
ATOM  36070  O   ARG D  10     160.429 109.876  33.325  1.00 46.79      DS4
ATOM  36071  N   LEU D  11     158.315 109.944  34.090  1.00 53.89      DS4
ATOM  36072  CA  LEU D  11     157.725 110.222  32.792  1.00 53.89      DS4
ATOM  36073  CB  LEU D  11     156.452 109.434  32.555  1.00 18.58      DS4
ATOM  36074  CG  LEU D  11     156.418 108.018  33.101  1.00 18.58      DS4
ATOM  36075  CD1 LEU D  11     155.201 107.306  32.555  1.00 18.58      DS4
ATOM  36076  CD2 LEU D  11     157.666 107.284  32.715  1.00 18.58      DS4
ATOM  36077  C   LEU D  11     157.359 111.671  32.948  1.00 53.89      DS4
ATOM  36078  O   LEU D  11     157.610 112.481  32.052  1.00 53.89      DS4
ATOM  36079  N   CYS D  12     156.754 111.988  34.096  1.00 63.91      DS4
ATOM  36080  CA  CYS D  12     156.375 113.366  34.406  1.00 63.91      DS4
ATOM  36081  CB  CYS D  12     156.294 113.597  35.952  1.00 38.07      DS4
ATOM  36082  SG  CYS D  12     154.643 113.729  36.848  1.00 38.07      DS4
ATOM  36083  C   CYS D  12     157.577 114.111  33.806  1.00 63.91      DS4
ATOM  36084  O   CYS D  12     157.422 114.945  32.909  1.00 63.91      DS4
ATOM  36085  N   ARG D  13     158.776 113.726  34.257  1.00 49.27      DS4
ATOM  36086  CA  ARG D  13     160.021 114.337  33.806  1.00 49.27      DS4
ATOM  36087  CB  ARG D  13     161.215 113.742  34.553  1.00 41.87      DS4
ATOM  36088  CG  ARG D  13     161.535 114.476  35.838  1.00 41.87      DS4
ATOM  36089  CD  ARG D  13     162.992 114.364  36.218  1.00 41.87      DS4
ATOM  36090  NE  ARG D  13     163.315 113.064  36.777  1.00 41.87      DS4
ATOM  36091  CZ  ARG D  13     164.529 112.530  36.733  1.00 41.87      DS4
ATOM  36092  NH1 ARG D  13     165.525 113.191  36.154  1.00 41.87      DS4
ATOM  36093  NH2 ARG D  13     164.749 111.332  37.254  1.00 41.87      DS4
ATOM  36094  C   ARG D  13     160.285 114.259  32.315  1.00 49.27      DS4
ATOM  36095  O   ARG D  13     160.520 115.281  31.677  1.00 49.27      DS4
ATOM  36096  N   ARG D  14     160.272 113.048  31.769  1.00 35.48      DS4
ATOM  36097  CA  ARG D  14     160.501 112.839  30.341  1.00 35.48      DS4
ATOM  36098  CB  ARG D  14     160.328 111.358  30.000  1.00 51.66      DS4
ATOM  36099  CG  ARG D  14     160.148 111.079  28.514  1.00 51.66      DS4
ATOM  36100  CD  ARG D  14     161.346 111.552  27.726  1.00 51.66      DS4
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ATOM  36101  NE  ARG D  14     162.527 110.774  28.072  1.00 51.66      DS4
ATOM  36102  CZ  ARG D  14     163.760 111.099  27.712  1.00 51.66      DS4
ATOM  36103  NH1 ARG D  14     163.972 112.195  26.993  1.00 51.66      DS4
ATOM  36104  NH2 ARG D  14     164.777 110.328  28.064  1.00 51.66      DS4
ATOM  36105  C   ARG D  14     159.560 113.669  29.456  1.00 35.48      DS4
ATOM  36106  O   ARG D  14     159.997 114.432  28.589  1.00 35.48      DS4
ATOM  36107  N   GLU D  15     158.262 113.515  29.659  1.00 45.77      DS4
ATOM  36108  CA  GLU D  15     157.332 114.266  28.847  1.00 45.77      DS4
ATOM  36109  CB  GLU D  15     155.893 113.831  29.131  1.00 81.87      DS4
ATOM  36110  CG  GLU D  15     155.184 113.250  27.913  1.00 81.87      DS4
ATOM  36111  CD  GLU D  15     155.837 111.977  27.409  1.00 81.87      DS4
ATOM  36112  OE1 GLU D  15     155.782 110.957  28.126  1.00 81.87      DS4
ATOM  36113  OE2 GLU D  15     156.411 111.995  26.301  1.00 81.87      DS4
ATOM  36114  C   GLU D  15     157.500 115.746  29.125  1.00 45.77      DS4
ATOM  36115  O   GLU D  15     156.973 116.578  28.397  1.00 45.77      DS4
ATOM  36116  N   GLY D  16     158.237 116.072  30.181  1.00 55.53      DS4
ATOM  36117  CA  GLY D  16     158.452 117.469  30.523  1.00 55.53      DS4
ATOM  36118  C   GLY D  16     157.289 118.089  31.284  1.00 55.53      DS4
ATOM  36119  O   GLY D  16     157.457 118.617  32.381  1.00 55.53      DS4
ATOM  36120  N   VAL D  17     156.101 118.038  30.698  1.00 52.28      DS4
ATOM  36121  CA  VAL D  17     154.930 118.586  31.354  1.00 52.28      DS4
ATOM  36122  CB  VAL D  17     153.675 118.395  30.482  1.00111.42      DS4
ATOM  36123  CG1 VAL D  17     152.464 118.999  31.162  1.00111.42      DS4
ATOM  36124  CG2 VAL D  17     153.888 119.037  29.129  1.00111.42      DS4
ATOM  36125  C   VAL D  17     154.722 117.868  32.686  1.00 52.28      DS4
ATOM  36126  O   VAL D  17     155.359 116.851  32.983  1.00 52.28      DS4
ATOM  36127  N   LYS D  18     153.824 118.410  33.490  1.00 87.91      DS4
ATOM  36128  CA  LYS D  18     153.499 117.838  34.781  1.00 87.91      DS4
ATOM  36129  CB  LYS D  18     153.374 118.977  35.792  1.00 98.84      DS4
ATOM  36130  CG  LYS D  18     153.377 118.605  37.265  1.00 98.84      DS4
ATOM  36131  CD  LYS D  18     153.285 119.898  38.083  1.00 98.84      DS4
ATOM  36132  CE  LYS D  18     153.163 119.668  39.582  1.00 98.84      DS4
ATOM  36133  NZ  LYS D  18     152.773 120.924  40.302  1.00 98.84      DS4
ATOM  36134  C   LYS D  18     152.153 117.148  34.566  1.00 87.91      DS4
ATOM  36135  O   LYS D  18     151.121 117.809  34.555  1.00 87.91      DS4
ATOM  36136  N   LEU D  19     152.166 115.834  34.352  1.00 51.06      DS4
ATOM  36137  CA  LEU D  19     150.927 115.079  34.137  1.00 51.06      DS4
ATOM  36138  CB  LEU D  19     151.058 114.158  32.925  1.00 44.21      DS4
ATOM  36139  CG  LEU D  19     152.462 113.827  32.407  1.00 44.21      DS4
ATOM  36140  CD1 LEU D  19     153.317 113.223  33.496  1.00 44.21      DS4
ATOM  36141  CD2 LEU D  19     152.340 112.869  31.254  1.00 44.21      DS4
ATOM  36142  C   LEU D  19     150.592 114.261  35.371  1.00 51.06      DS4
ATOM  36143  O   LEU D  19     150.956 113.096  35.478  1.00 51.06      DS4
ATOM  36144  N   TYR D  20     149.885 114.895  36.296  1.00 73.71      DS4
ATOM  36145  CA  TYR D  20     149.499 114.300  37.570  1.00 73.71      DS4
ATOM  36146  CB  TYR D  20     148.375 115.127  38.185  1.00 67.06      DS4
ATOM  36147  CG  TYR D  20     148.681 116.600  38.191  1.00 67.06      DS4
ATOM  36148  CD1 TYR D  20     148.385 117.396  37.087  1.00 67.06      DS4
ATOM  36149  CE1 TYR D  20     148.716 118.751  37.066  1.00 67.06      DS4
ATOM  36150  CD2 TYR D  20     149.316 117.192  39.281  1.00 67.06      DS4
ATOM  36151  CE2 TYR D  20     149.653 118.546  39.275  1.00 67.06      DS4
ATOM  36152  CZ  TYR D  20     149.352 119.320  38.165  1.00 67.06      DS4
ATOM  36153  OH  TYR D  20     149.699 120.655  38.151  1.00 67.06      DS4
ATOM  36154  C   TYR D  20     149.104 112.831  37.563  1.00 73.71      DS4
ATOM  36155  O   TYR D  20     148.050 112.461  37.053  1.00 73.71      DS4
ATOM  36156  N   LEU D  21     149.956 111.999  38.153  1.00 71.65      DS4
ATOM  36157  CA  LEU D  21     149.700 110.566  38.230  1.00 71.65      DS4
ATOM  36158  CB  LEU D  21     150.776 109.793  37.459  1.00 33.07      DS4
ATOM  36159  CG  LEU D  21     151.184 110.251  36.054  1.00 33.07      DS4
ATOM  36160  CD1 LEU D  21     152.298 109.339  35.574  1.00 33.07      DS4
ATOM  36161  CD2 LEU D  21     150.007 110.212  35.080  1.00 33.07      DS4
ATOM  36162  C   LEU D  21     149.717 110.130  39.697  1.00 71.65      DS4
ATOM  36163  O   LEU D  21     149.929 108.952  40.006  1.00 71.65      DS4
ATOM  36164  N   LYS D  22     149.498 111.087  40.598  1.00 67.13      DS4
ATOM  36165  CA  LYS D  22     149.503 110.795  42.024  1.00 67.13      DS4
ATOM  36166  CB  LYS D  22     150.920 110.921  42.572  1.00 51.38      DS4
ATOM  36167  CG  LYS D  22     151.795 109.695  42.417  1.00 51.38      DS4
ATOM  36168  CD  LYS D  22     153.152 109.942  43.088  1.00 51.38      DS4
ATOM  36169  CE  LYS D  22     154.092 108.737  43.009  1.00 51.38      DS4
ATOM  36170  NZ  LYS D  22     155.415 109.016  43.655  1.00 51.38      DS4
ATOM  36171  C   LYS D  22     148.582 111.669  42.869  1.00 67.13      DS4
ATOM  36172  O   LYS D  22     148.352 111.378  44.044  1.00 67.13      DS4
ATOM  36173  N   GLY D  23     148.053 112.737  42.290  1.00127.77      DS4
ATOM  36174  CA  GLY D  23     147.199 113.604  43.078  1.00127.77      DS4
ATOM  36175  C   GLY D  23     148.069 114.299  44.111  1.00127.77      DS4
ATOM  36176  O   GLY D  23     148.876 115.155  43.752  1.00127.77      DS4
ATOM  36177  N   GLU D  24     147.939 113.936  45.386  1.00 76.15      DS4
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ATOM  36178  CA  GLU D  24     148.758 114.571  46.410  1.00 76.15      DS4
ATOM  36179  CB  GLU D  24     148.574 113.890  47.767  1.00201.30      DS4
ATOM  36180  CG  GLU D  24     149.331 114.592  48.891  1.00201.30      DS4
ATOM  36181  CD  GLU D  24     149.249 113.863  50.218  1.00201.30      DS4
ATOM  36182  OE1 GLU D  24     148.120 113.571  50.668  1.00201.30      DS4
ATOM  36183  OE2 GLU D  24     150.314 113.590  50.816  1.00201.30      DS4
ATOM  36184  C   GLU D  24     150.203 114.428  45.967  1.00 76.15      DS4
ATOM  36185  O   GLU D  24     150.498 113.561  45.163  1.00 76.15      DS4
ATOM  36186  N   ARG D  25     151.092 115.275  46.481  1.00 89.92      DS4
ATOM  36187  CA  ARG D  25     152.525 115.242  46.146  1.00 89.92      DS4
ATOM  36188  CB  ARG D  25     153.108 113.824  46.255  1.00 43.80      DS4
ATOM  36189  CG  ARG D  25     154.643 113.792  46.225  1.00 43.80      DS4
ATOM  36190  CD  ARG D  25     155.190 112.364  46.255  1.00 43.80      DS4
ATOM  36191  NE  ARG D  25     156.305 112.209  47.191  1.00 43.80      DS4
ATOM  36192  CZ  ARG D  25     157.580 112.463  46.920  1.00 43.80      DS4
ATOM  36193  NH1 ARG D  25     157.948 112.889  45.722  1.00 43.80      DS4
ATOM  36194  NH2 ARG D  25     158.490 112.288  47.864  1.00 43.80      DS4
ATOM  36195  C   ARG D  25     152.834 115.792  44.763  1.00 89.92      DS4
ATOM  36196  O   ARG D  25     153.561 116.775  44.643  1.00 89.92      DS4
ATOM  36197  N   CYS D  26     152.308 115.158  43.716  1.00165.57      DS4
ATOM  36198  CA  CYS D  26     152.539 115.653  42.363  1.00165.57      DS4
ATOM  36199  CB  CYS D  26     151.912 114.701  41.312  1.00 28.67      DS4
ATOM  36200  SG  CYS D  26     152.686 114.689  39.643  1.00 28.67      DS4
ATOM  36201  C   CYS D  26     151.846 117.028  42.401  1.00165.57      DS4
ATOM  36202  O   CYS D  26     151.642 117.671  41.374  1.00165.57      DS4
ATOM  36203  N   TYR D  27     151.496 117.451  43.622  1.00 66.55      DS4
ATOM  36204  CA  TYR D  27     150.853 118.738  43.928  1.00 66.55      DS4
ATOM  36205  CB  TYR D  27     149.492 118.531  44.605  1.00 59.07      DS4
ATOM  36206  CG  TYR D  27     148.331 118.659  43.657  1.00 59.07      DS4
ATOM  36207  CD1 TYR D  27     147.706 117.527  43.140  1.00 59.07      DS4
ATOM  36208  CE1 TYR D  27     146.720 117.625  42.169  1.00 59.07      DS4
ATOM  36209  CD2 TYR D  27     147.930 119.907  43.189  1.00 59.07      DS4
ATOM  36210  CE2 TYR D  27     146.948 120.024  42.216  1.00 59.07      DS4
ATOM  36211  CZ  TYR D  27     146.350 118.876  41.703  1.00 59.07      DS4
ATOM  36212  OH  TYR D  27     145.428 118.969  40.683  1.00 59.07      DS4
ATOM  36213  C   TYR D  27     151.728 119.559  44.878  1.00 66.55      DS4
ATOM  36214  O   TYR D  27     151.669 120.788  44.902  1.00 66.55      DS4
ATOM  36215  N   SER D  28     152.528 118.853  45.666  1.00 82.44      DS4
ATOM  36216  CA  SER D  28     153.425 119.459  46.643  1.00 82.44      DS4
ATOM  36217  CB  SER D  28     153.689 118.457  47.773  1.00125.43      DS4
ATOM  36218  OG  SER D  28     154.491 117.378  47.318  1.00125.43      DS4
ATOM  36219  C   SER D  28     154.748 119.842  45.991  1.00 82.44      DS4
ATOM  36220  O   SER D  28     154.838 119.934  44.772  1.00 82.44      DS4
ATOM  36221  N   PRO D  29     155.778 120.127  46.805  1.00 81.31      DS4
ATOM  36222  CD  PRO D  29     155.683 120.702  48.156  1.00 80.83      DS4
ATOM  36223  CA  PRO D  29     157.066 120.481  46.207  1.00 81.31      DS4
ATOM  36224  CB  PRO D  29     157.689 121.419  47.238  1.00 80.83      DS4
ATOM  36225  CG  PRO D  29     156.511 121.937  48.009  1.00 80.83      DS4
ATOM  36226  C   PRO D  29     157.872 119.197  46.063  1.00 81.31      DS4
ATOM  36227  O   PRO D  29     158.947 119.061  46.652  1.00 81.31      DS4
ATOM  36228  N   LYS D  30     157.342 118.250  45.291  1.00 94.38      DS4
ATOM  36229  CA  LYS D  30     158.028 116.986  45.090  1.00 94.38      DS4
ATOM  36230  CB  LYS D  30     157.649 116.003  46.204  1.00 84.31      DS4
ATOM  36231  CG  LYS D  30     158.137 116.376  47.596  1.00 84.31      DS4
ATOM  36232  CD  LYS D  30     157.763 115.295  48.618  1.00 84.31      DS4
ATOM  36233  CE  LYS D  30     158.160 115.675  50.055  1.00 84.31      DS4
ATOM  36234  NZ  LYS D  30     157.759 114.660  51.084  1.00 84.31      DS4
ATOM  36235  C   LYS D  30     157.842 116.291  43.738  1.00 94.38      DS4
ATOM  36236  O   LYS D  30     158.633 115.404  43.424  1.00 94.38      DS4
ATOM  36237  N   CYS D  31     156.837 116.660  42.932  1.00 92.28      DS4
ATOM  36238  CA  CYS D  31     156.647 115.966  41.644  1.00 92.28      DS4
ATOM  36239  CB  CYS D  31     155.476 116.512  40.827  1.00 12.62      DS4
ATOM  36240  SG  CYS D  31     155.255 115.565  39.284  1.00 12.62      DS4
ATOM  36241  C   CYS D  31     157.889 116.048  40.783  1.00 92.28      DS4
ATOM  36242  O   CYS D  31     157.890 115.594  39.636  1.00 92.28      DS4
ATOM  36243  N   ALA D  32     158.932 116.649  41.352  1.00 79.03      DS4
ATOM  36244  CA  ALA D  32     160.228 116.797  40.708  1.00 79.03      DS4
ATOM  36245  CB  ALA D  32     160.735 115.451  40.232  1.00 31.82      DS4
ATOM  36246  C   ALA D  32     160.237 117.786  39.569  1.00 79.03      DS4
ATOM  36247  O   ALA D  32     161.288 118.323  39.226  1.00 79.03      DS4
ATOM  36248  N   MET D  33     159.085 118.026  38.957  1.00109.13      DS4
ATOM  36249  CA  MET D  33     159.069 119.016  37.900  1.00109.13      DS4
ATOM  36250  CB  MET D  33     157.721 119.032  37.174  1.00 58.74      DS4
ATOM  36251  CG  MET D  33     157.551 117.866  36.188  1.00 58.74      DS4
ATOM  36252  SD  MET D  33     159.119 117.319  35.421  1.00 58.74      DS4
ATOM  36253  CE  MET D  33     159.383 118.534  34.158  1.00 58.74      DS4
ATOM  36254  C   MET D  33     159.349 120.316  38.655  1.00109.13      DS4
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ATOM  36255  O   MET D  33     159.356 121.417  38.097  1.00109.13      DS4
ATOM  36256  N   GLU D  34     159.579 120.129  39.953  1.00 85.80      DS4
ATOM  36257  CA  GLU D  34     159.940 121.168  40.902  1.00 85.80      DS4
ATOM  36258  CB  GLU D  34     159.055 121.097  42.146  1.00107.87      DS4
ATOM  36259  CG  GLU D  34     158.196 122.318  42.397  1.00107.87      DS4
ATOM  36260  CD  GLU D  34     156.891 122.274  41.636  1.00107.87      DS4
ATOM  36261  OE1 GLU D  34     156.127 121.304  41.829  1.00107.87      DS4
ATOM  36262  OE2 GLU D  34     156.623 123.207  40.852  1.00107.87      DS4
ATOM  36263  C   GLU D  34     161.351 120.714  41.271  1.00 85.80      DS4
ATOM  36264  O   GLU D  34     161.517 119.783  42.068  1.00 85.80      DS4
ATOM  36265  N   ARG D  35     162.360 121.340  40.670  1.00 94.32      DS4
ATOM  36266  CA  ARG D  35     163.758 120.975  40.921  1.00 94.32      DS4
ATOM  36267  CB  ARG D  35     164.042 121.017  42.427  1.00201.30      DS4
ATOM  36268  CG  ARG D  35     163.745 122.370  43.077  1.00201.30      DS4
ATOM  36269  CD  ARG D  35     163.949 122.318  44.588  1.00201.30      DS4
ATOM  36270  NE  ARG D  35     163.673 123.597  45.240  1.00201.30      DS4
ATOM  36271  CZ  ARG D  35     163.744 123.798  46.554  1.00201.30      DS4
ATOM  36272  NH1 ARG D  35     164.083 122.803  47.363  1.00201.30      DS4
ATOM  36273  NH2 ARG D  35     163.476 124.994  47.061  1.00201.30      DS4
ATOM  36274  C   ARG D  35     164.073 119.579  40.352  1.00 94.32      DS4
ATOM  36275  O   ARG D  35     164.068 118.587  41.080  1.00 94.32      DS4
ATOM  36276  N   ARG D  36     164.352 119.548  39.045  1.00 56.40      DS4
ATOM  36277  CA  ARG D  36     164.655 118.350  38.247  1.00 56.40      DS4
ATOM  36278  CB  ARG D  36     164.482 117.067  39.059  1.00 76.53      DS4
ATOM  36279  CG  ARG D  36     165.736 116.535  39.708  1.00 76.53      DS4
ATOM  36280  CD  ARG D  36     165.526 115.073  40.042  1.00 76.53      DS4
ATOM  36281  NE  ARG D  36     166.733 114.419  40.533  1.00 76.53      DS4
ATOM  36282  CZ  ARG D  36     166.848 113.104  40.687  1.00 76.53      DS4
ATOM  36283  NH1 ARG D  36     165.828 112.308  40.384  1.00 76.53      DS4
ATOM  36284  NH2 ARG D  36     167.977 112.583  41.154  1.00 76.53      DS4
ATOM  36285  C   ARG D  36     163.743 118.237  37.015  1.00 56.40      DS4
ATOM  36286  O   ARG D  36     163.499 117.139  36.527  1.00 56.40      DS4
ATOM  36287  N   PRO D  37     163.236 119.365  36.492  1.00 62.21      DS4
ATOM  36288  CD  PRO D  37     163.437 120.762  36.903  1.00 75.76      DS4
ATOM  36289  CA  PRO D  37     162.355 119.309  35.323  1.00 62.21      DS4
ATOM  36290  CB  PRO D  37     162.009 120.778  35.081  1.00 75.76      DS4
ATOM  36291  CG  PRO D  37     162.167 121.401  36.427  1.00 75.76      DS4
ATOM  36292  C   PRO D  37     162.981 118.669  34.089  1.00 62.21      DS4
ATOM  36293  O   PRO D  37     162.381 118.655  33.013  1.00 62.21      DS4
ATOM  36294  N   TYR D  38     164.194 118.155  34.228  1.00 90.41      DS4
ATOM  36295  CA  TYR D  38     164.840 117.523  33.094  1.00 90.41      DS4
ATOM  36296  CB  TYR D  38     166.355 117.611  33.215  1.00 66.19      DS4
ATOM  36297  CG  TYR D  38     166.882 117.348  34.596  1.00 66.19      DS4
ATOM  36298  CD1 TYR D  38     166.564 116.185  35.278  1.00 66.19      DS4
ATOM  36299  CE1 TYR D  38     167.069 115.942  36.545  1.00 66.19      DS4
ATOM  36300  CD2 TYR D  38     167.720 118.263  35.215  1.00 66.19      DS4
ATOM  36301  CE2 TYR D  38     168.230 118.031  36.474  1.00 66.19      DS4
ATOM  36302  CZ  TYR D  38     167.905 116.872  37.138  1.00 66.19      DS4
ATOM  36303  OH  TYR D  38     168.422 116.653  38.396  1.00 66.19      DS4
ATOM  36304  C   TYR D  38     164.433 116.071  32.989  1.00 90.41      DS4
ATOM  36305  O   TYR D  38     163.861 115.502  33.916  1.00 90.41      DS4
ATOM  36306  N   PRO D  39     164.716 115.449  31.844  1.00 52.01      DS4
ATOM  36307  CD  PRO D  39     165.380 115.988  30.647  1.00 62.26      DS4
ATOM  36308  CA  PRO D  39     164.366 114.046  31.653  1.00 52.01      DS4
ATOM  36309  CB  PRO D  39     164.683 113.822  30.183  1.00 62.26      DS4
ATOM  36310  CG  PRO D  39     165.844 114.737  29.962  1.00 62.26      DS4
ATOM  36311  C   PRO D  39     165.196 113.160  32.575  1.00 52.01      DS4
ATOM  36312  O   PRO D  39     166.246 113.564  33.075  1.00 52.01      DS4
ATOM  36313  N   PRO D  40     164.731 111.933  32.810  1.00 44.54      DS4
ATOM  36314  CD  PRO D  40     163.531 111.307  32.225  1.00 36.33      DS4
ATOM  36315  CA  PRO D  40     165.444 110.999  33.682  1.00 44.54      DS4
ATOM  36316  CB  PRO D  40     164.414 109.905  33.905  1.00 36.33      DS4
ATOM  36317  CG  PRO D  40     163.726 109.851  32.569  1.00 36.33      DS4
ATOM  36318  C   PRO D  40     166.685 110.487  32.985  1.00 44.54      DS4
ATOM  36319  O   PRO D  40     167.019 110.954  31.899  1.00 44.54      DS4
ATOM  36320  N   GLY D  41     167.376 109.540  33.613  1.00 52.84      DS4
ATOM  36321  CA  GLY D  41     168.562 108.967  33.004  1.00 52.84      DS4
ATOM  36322  C   GLY D  41     169.853 109.767  33.026  1.00 52.84      DS4
ATOM  36323  O   GLY D  41     169.879 110.992  33.144  1.00 52.84      DS4
ATOM  36324  N   GLN D  42     170.943 109.030  32.885  1.00 33.07      DS4
ATOM  36325  CA  GLN D  42     172.293 109.563  32.886  1.00 33.07      DS4
ATOM  36326  CB  GLN D  42     173.262 108.439  32.509  1.00 83.16      DS4
ATOM  36327  CG  GLN D  42     174.646 108.894  32.108  1.00 83.16      DS4
ATOM  36328  CD  GLN D  42     175.609 107.738  31.943  1.00 83.16      DS4
ATOM  36329  OE1 GLN D  42     176.699 107.903  31.394  1.00 83.16      DS4
ATOM  36330  NE2 GLN D  42     175.217 106.558  32.429  1.00 83.16      DS4
ATOM  36331  C   GLN D  42     172.549 110.762  32.001  1.00 33.07      DS4
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ATOM  36332  O   GLN D  42     173.605 111.372  32.109  1.00 33.07      DS4
ATOM  36333  N   HIS D  43     171.596 111.120  31.147  1.00 67.53      DS4
ATOM  36334  CA  HIS D  43     171.803 112.235  30.223  1.00 67.53      DS4
ATOM  36335  CB  HIS D  43     171.739 111.717  28.788  1.00 79.09      DS4
ATOM  36336  CG  HIS D  43     172.753 110.665  28.478  1.00 79.09      DS4
ATOM  36337  CD2 HIS D  43     172.673 109.314  28.514  1.00 79.09      DS4
ATOM  36338  ND1 HIS D  43     174.039 110.965  28.087  1.00 79.09      DS4
ATOM  36339  CE1 HIS D  43     174.709 109.843  27.895  1.00 79.09      DS4
ATOM  36340  NE2 HIS D  43     173.903 108.827  28.148  1.00 79.09      DS4
ATOM  36341  C   HIS D  43     170.850 113.418  30.336  1.00 67.53      DS4
ATOM  36342  O   HIS D  43     170.888 114.328  29.505  1.00 67.53      DS4
ATOM  36343  N   GLY D  44     169.995 113.409  31.349  1.00 75.77      DS4
ATOM  36344  CA  GLY D  44     169.037 114.490  31.505  1.00 75.77      DS4
ATOM  36345  C   GLY D  44     169.533 115.913  31.291  1.00 75.77      DS4
ATOM  36346  O   GLY D  44     168.980 116.657  30.478  1.00 75.77      DS4
ATOM  36347  N   GLN D  45     170.589 116.284  32.006  1.00 67.54      DS4
ATOM  36348  CA  GLN D  45     171.131 117.634  31.941  1.00 67.54      DS4
ATOM  36349  CB  GLN D  45     171.976 117.885  33.195  1.00 77.44      DS4
ATOM  36350  CG  GLN D  45     171.118 118.159  34.439  1.00 77.44      DS4
ATOM  36351  CD  GLN D  45     171.571 117.392  35.670  1.00 77.44      DS4
ATOM  36352  OE1 GLN D  45     172.684 117.577  36.158  1.00 77.44      DS4
ATOM  36353  NE2 GLN D  45     170.703 116.524  36.179  1.00 77.44      DS4
ATOM  36354  C   GLN D  45     171.879 118.104  30.688  1.00 67.54      DS4
ATOM  36355  O   GLN D  45     172.067 119.308  30.516  1.00 67.54      DS4
ATOM  36356  N   LYS D  46     172.310 117.195  29.813  1.00 45.87      DS4
ATOM  36357  CA  LYS D  46     172.999 117.626  28.589  1.00 45.87      DS4
ATOM  36358  CB  LYS D  46     173.620 116.428  27.854  1.00 69.60      DS4
ATOM  36359  CG  LYS D  46     174.884 115.832  28.494  1.00 69.60      DS4
ATOM  36360  CD  LYS D  46     175.462 114.715  27.607  1.00 69.60      DS4
ATOM  36361  CE  LYS D  46     176.845 114.235  28.052  1.00 69.60      DS4
ATOM  36362  NZ  LYS D  46     176.847 113.463  29.329  1.00 69.60      DS4
ATOM  36363  C   LYS D  46     171.987 118.336  27.671  1.00 45.87      DS4
ATOM  36364  O   LYS D  46     170.789 118.050  27.732  1.00 45.87      DS4
ATOM  36365  N   ARG D  47     172.465 119.260  26.833  1.00 75.44      DS4
ATOM  36366  CA  ARG D  47     171.597 120.014  25.917  1.00 75.44      DS4
ATOM  36367  CB  ARG D  47     172.422 120.978  25.054  1.00134.94      DS4
ATOM  36368  CG  ARG D  47     171.580 121.861  24.126  1.00134.94      DS4
ATOM  36369  CD  ARG D  47     172.448 122.733  23.220  1.00134.94      DS4
ATOM  36370  NE  ARG D  47     173.095 121.969  22.154  1.00134.94      DS4
ATOM  36371  CZ  ARG D  47     172.494 121.577  21.033  1.00134.94      DS4
ATOM  36372  NH1 ARG D  47     171.221 121.877  20.813  1.00134.94      DS4
ATOM  36373  NH2 ARG D  47     173.167 120.880  20.129  1.00134.94      DS4
ATOM  36374  C   ARG D  47     170.801 119.091  25.005  1.00 75.44      DS4
ATOM  36375  O   ARG D  47     171.264 118.007  24.649  1.00 75.44      DS4
ATOM  36376  N   ALA D  48     169.608 119.530  24.614  1.00 79.48      DS4
ATOM  36377  CA  ALA D  48     168.748 118.719  23.760  1.00 79.48      DS4
ATOM  36378  CB  ALA D  48     167.301 118.853  24.204  1.00134.20      DS4
ATOM  36379  C   ALA D  48     168.868 119.092  22.300  1.00 79.48      DS4
ATOM  36380  O   ALA D  48     168.964 120.271  21.968  1.00 79.48      DS4
ATOM  36381  N   ARG D  49     168.862 118.083  21.432  1.00 63.15      DS4
ATOM  36382  CA  ARG D  49     168.949 118.315  19.995  1.00 63.15      DS4
ATOM  36383  CB  ARG D  49     169.648 117.149  19.291  1.00201.30      DS4
ATOM  36384  CG  ARG D  49     171.156 117.108  19.473  1.00201.30      DS4
ATOM  36385  CD  ARG D  49     171.793 116.173  18.453  1.00201.30      DS4
ATOM  36386  NE  ARG D  49     173.254 116.200  18.503  1.00201.30      DS4
ATOM  36387  CZ  ARG D  49     174.043 115.597  17.617  1.00201.30      DS4
ATOM  36388  NH1 ARG D  49     173.512 114.917  16.610  1.00201.30      DS4
ATOM  36389  NH2 ARG D  49     175.362 115.673  17.736  1.00201.30      DS4
ATOM  36390  C   ARG D  49     167.537 118.470  19.446  1.00 63.15      DS4
ATOM  36391  O   ARG D  49     166.604 117.834  19.947  1.00 63.15      DS4
ATOM  36392  N   ARG D  50     167.388 119.328  18.435  1.00 51.87      DS4
ATOM  36393  CA  ARG D  50     166.096 119.568  17.799  1.00 51.87      DS4
ATOM  36394  CB  ARG D  50     166.285 120.317  16.478  1.00 88.67      DS4
ATOM  36395  CG  ARG D  50     165.214 120.025  15.440  1.00 88.67      DS4
ATOM  36396  CD  ARG D  50     165.786 119.220  14.274  1.00 88.67      DS4
ATOM  36397  NE  ARG D  50     165.947 120.037  13.073  1.00 88.67      DS4
ATOM  36398  CZ  ARG D  50     164.996 120.219  12.161  1.00 88.67      DS4
ATOM  36399  NH1 ARG D  50     163.812 119.633  12.311  1.00 88.67      DS4
ATOM  36400  NH2 ARG D  50     165.224 120.996  11.107  1.00 88.67      DS4
ATOM  36401  C   ARG D  50     165.432 118.224  17.554  1.00 51.87      DS4
ATOM  36402  O   ARG D  50     166.038 117.315  16.992  1.00 51.87      DS4
ATOM  36403  N   PRO D  51     164.172 118.079  17.973  1.00 26.92      DS4
ATOM  36404  CD  PRO D  51     163.397 119.059  18.741  1.00 82.74      DS4
ATOM  36405  CA  PRO D  51     163.413 116.837  17.812  1.00 26.92      DS4
ATOM  36406  CB  PRO D  51     162.193 117.066  18.697  1.00 82.74      DS4
ATOM  36407  CG  PRO D  51     162.634 118.165  19.644  1.00 82.74      DS4
ATOM  36408  C   PRO D  51     163.003 116.545  16.381  1.00 26.92      DS4
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ATOM  36409  O   PRO D  51     162.649 117.465  15.640  1.00 26.92      DS4
ATOM  36410  N   SER D  52     163.044 115.270  15.997  1.00 47.60      DS4
ATOM  36411  CA  SER D  52     162.638 114.858  14.652  1.00 47.60      DS4
ATOM  36412  CB  SER D  52     163.067 113.418  14.381  1.00 73.69      DS4
ATOM  36413  OG  SER D  52     162.277 112.506  15.127  1.00 73.69      DS4
ATOM  36414  C   SER D  52     161.111 114.937  14.589  1.00 47.60      DS4
ATOM  36415  O   SER D  52     160.437 114.601  15.567  1.00 47.60      DS4
ATOM  36416  N   ASP D  53     160.565 115.370  13.452  1.00 43.23      DS4
ATOM  36417  CA  ASP D  53     159.115 115.486  13.316  1.00 43.23      DS4
ATOM  36418  CB  ASP D  53     158.723 115.581  11.848  1.00102.64      DS4
ATOM  36419  CG  ASP D  53     159.005 116.945  11.267  1.00102.64      DS4
ATOM  36420  OD1 ASP D  53     160.165 117.405  11.362  1.00102.64      DS4
ATOM  36421  OD2 ASP D  53     158.064 117.556  10.719  1.00102.64      DS4
ATOM  36422  C   ASP D  53     158.444 114.292  13.966  1.00 43.23      DS4
ATOM  36423  O   ASP D  53     157.338 114.402  14.506  1.00 43.23      DS4
ATOM  36424  N   TYR D  54     159.127 113.151  13.923  1.00 35.49      DS4
ATOM  36425  CA  TYR D  54     158.606 111.943  14.535  1.00 35.49      DS4
ATOM  36426  CB  TYR D  54     159.533 110.745  14.278  1.00 42.13      DS4
ATOM  36427  CG  TYR D  54     158.973 109.433  14.789  1.00 42.13      DS4
ATOM  36428  CD1 TYR D  54     157.696 109.024  14.432  1.00 42.13      DS4
ATOM  36429  CE1 TYR D  54     157.133 107.852  14.949  1.00 42.13      DS4
ATOM  36430  CD2 TYR D  54     159.690 108.632  15.675  1.00 42.13      DS4
ATOM  36431  CE2 TYR D  54     159.139 107.455  16.203  1.00 42.13      DS4
ATOM  36432  CZ  TYR D  54     157.853 107.073  15.836  1.00 42.13      DS4
ATOM  36433  OH  TYR D  54     157.258 105.934  16.359  1.00 42.13      DS4
ATOM  36434  C   TYR D  54     158.534 112.220  16.020  1.00 35.49      DS4
ATOM  36435  O   TYR D  54     157.446 112.401  16.565  1.00 35.49      DS4
ATOM  36436  N   ALA D  55     159.707 112.284  16.653  1.00 19.94      DS4
ATOM  36437  CA  ALA D  55     159.834 112.524  18.094  1.00 19.94      DS4
ATOM  36438  CB  ALA D  55     161.127 113.234  18.401  1.00 38.93      DS4
ATOM  36439  C   ALA D  55     158.686 113.342  18.610  1.00 19.94      DS4
ATOM  36440  O   ALA D  55     157.967 112.931  19.516  1.00 19.94      DS4
ATOM  36441  N   VAL D  56     158.519 114.519  18.035  1.00 25.17      DS4
ATOM  36442  CA  VAL D  56     157.433 115.380  18.437  1.00 25.17      DS4
ATOM  36443  CB  VAL D  56     157.243 116.486  17.414  1.00 44.75      DS4
ATOM  36444  CG1 VAL D  56     155.884 117.133  17.583  1.00 44.75      DS4
ATOM  36445  CG2 VAL D  56     158.356 117.500  17.576  1.00 44.75      DS4
ATOM  36446  C   VAL D  56     156.163 114.552  18.547  1.00 25.17      DS4
ATOM  36447  O   VAL D  56     155.741 114.176  19.644  1.00 25.17      DS4
ATOM  36448  N   ARG D  57     155.572 114.248  17.399  1.00 43.62      DS4
ATOM  36449  CA  ARG D  57     154.349 113.470  17.371  1.00 43.62      DS4
ATOM  36450  CB  ARG D  57     154.005 113.115  15.927  1.00 57.43      DS4
ATOM  36451  CG  ARG D  57     153.610 114.328  15.114  1.00 57.43      DS4
ATOM  36452  CD  ARG D  57     153.621 114.067  13.625  1.00 57.43      DS4
ATOM  36453  NE  ARG D  57     153.336 115.294  12.891  1.00 57.43      DS4
ATOM  36454  CZ  ARG D  57     153.972 116.449  13.090  1.00 57.43      DS4
ATOM  36455  NH1 ARG D  57     154.936 116.536  14.006  1.00 57.43      DS4
ATOM  36456  NH2 ARG D  57     153.643 117.523  12.378  1.00 57.43      DS4
ATOM  36457  C   ARG D  57     154.462 112.222  18.236  1.00 43.62      DS4
ATOM  36458  O   ARG D  57     153.489 111.791  18.845  1.00 43.62      DS4
ATOM  36459  N   LEU D  58     155.649 111.640  18.308  1.00 35.55      DS4
ATOM  36460  CA  LEU D  58     155.801 110.463  19.142  1.00 35.55      DS4
ATOM  36461  CB  LEU D  58     157.208 109.864  19.010  1.00 50.32      DS4
ATOM  36462  CG  LEU D  58     157.485 108.534  19.740  1.00 50.32      DS4
ATOM  36463  CD1 LEU D  58     157.709 108.753  21.217  1.00 50.32      DS4
ATOM  36464  CD2 LEU D  58     156.319 107.585  19.531  1.00 50.32      DS4
ATOM  36465  C   LEU D  58     155.544 110.882  20.581  1.00 35.55      DS4
ATOM  36466  O   LEU D  58     154.664 110.345  21.242  1.00 35.55      DS4
ATOM  36467  N   ARG D  59     156.297 111.860  21.060  1.00 29.63      DS4
ATOM  36468  CA  ARG D  59     156.121 112.299  22.422  1.00 29.63      DS4
ATOM  36469  CB  ARG D  59     157.073 113.447  22.748  1.00 61.38      DS4
ATOM  36470  CG  ARG D  59     158.553 113.164  22.517  1.00 61.38      DS4
ATOM  36471  CD  ARG D  59     158.994 111.756  22.918  1.00 61.38      DS4
ATOM  36472  NE  ARG D  59     158.630 111.370  24.278  1.00 61.38      DS4
ATOM  36473  CZ  ARG D  59     158.843 110.156  24.781  1.00 61.38      DS4
ATOM  36474  NH1 ARG D  59     159.419 109.212  24.044  1.00 61.38      DS4
ATOM  36475  NH2 ARG D  59     158.464 109.877  26.017  1.00 61.38      DS4
ATOM  36476  C   ARG D  59     154.682 112.734  22.693  1.00 29.63      DS4
ATOM  36477  O   ARG D  59     153.992 112.147  23.532  1.00 29.63      DS4
ATOM  36478  N   GLU D  60     154.223 113.761  21.986  1.00 24.51      DS4
ATOM  36479  CA  GLU D  60     152.872 114.251  22.199  1.00 24.51      DS4
ATOM  36480  CB  GLU D  60     152.420 115.106  21.019  1.00 57.30      DS4
ATOM  36481  CG  GLU D  60     151.239 116.003  21.337  1.00 57.30      DS4
ATOM  36482  CD  GLU D  60     151.577 117.073  22.361  1.00 57.30      DS4
ATOM  36483  OE1 GLU D  60     151.994 116.723  23.479  1.00 57.30      DS4
ATOM  36484  OE2 GLU D  60     151.425 118.271  22.056  1.00 57.30      DS4
ATOM  36485  C   GLU D  60     151.921 113.080  22.402  1.00 24.51      DS4
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ATOM  36486  O   GLU D  60     151.113 113.094  23.310  1.00 24.51      DS4
ATOM  36487  N   LYS D  61     152.024 112.051  21.571  1.00 29.67      DS4
ATOM  36488  CA  LYS D  61     151.145 110.900  21.728  1.00 29.67      DS4
ATOM  36489  CB  LYS D  61     151.323 109.909  20.588  1.00 45.93      DS4
ATOM  36490  CG  LYS D  61     150.228 108.851  20.562  1.00 45.93      DS4
ATOM  36491  CD  LYS D  61     150.785 107.442  20.575  1.00 45.93      DS4
ATOM  36492  CE  LYS D  61     151.589 107.181  21.824  1.00 45.93      DS4
ATOM  36493  NZ  LYS D  61     152.023 105.767  21.873  1.00 45.93      DS4
ATOM  36494  C   LYS D  61     151.442 110.195  23.044  1.00 29.67      DS4
ATOM  36495  O   LYS D  61     150.533 109.925  23.820  1.00 29.67      DS4
ATOM  36496  N   GLN D  62     152.715 109.888  23.284  1.00 38.79      DS4
ATOM  36497  CA  GLN D  62     153.129 109.229  24.516  1.00 38.79      DS4
ATOM  36498  CB  GLN D  62     154.647 109.220  24.623  1.00 59.09      DS4
ATOM  36499  CG  GLN D  62     155.291 108.222  23.702  1.00 59.09      DS4
ATOM  36500  CD  GLN D  62     154.948 106.795  24.074  1.00 59.09      DS4
ATOM  36501  OE1 GLN D  62     155.312 106.327  25.147  1.00 59.09      DS4
ATOM  36502  NE2 GLN D  62     154.245 106.096  23.191  1.00 59.09      DS4
ATOM  36503  C   GLN D  62     152.539 109.961  25.708  1.00 38.79      DS4
ATOM  36504  O   GLN D  62     151.978 109.351  26.616  1.00 38.79      DS4
ATOM  36505  N   LYS D  63     152.672 111.278  25.706  1.00 37.86      DS4
ATOM  36506  CA  LYS D  63     152.119 112.090  26.777  1.00 37.86      DS4
ATOM  36507  CB  LYS D  63     152.173 113.556  26.360  1.00 47.52      DS4
ATOM  36508  CG  LYS D  63     151.557 114.529  27.329  1.00 47.52      DS4
ATOM  36509  CD  LYS D  63     151.616 115.922  26.734  1.00 47.52      DS4
ATOM  36510  CE  LYS D  63     153.043 116.271  26.294  1.00 47.52      DS4
ATOM  36511  NZ  LYS D  63     153.123 117.600  25.615  1.00 47.52      DS4
ATOM  36512  C   LYS D  63     150.668 111.657  27.048  1.00 37.86      DS4
ATOM  36513  O   LYS D  63     150.403 110.882  27.972  1.00 37.86      DS4
ATOM  36514  N   LEU D  64     149.745 112.146  26.223  1.00 10.47      DS4
ATOM  36515  CA  LEU D  64     148.337 111.825  26.358  1.00 10.47      DS4
ATOM  36516  CB  LEU D  64     147.615 111.897  25.012  1.00 10.36      DS4
ATOM  36517  CG  LEU D  64     146.114 112.228  25.055  1.00 10.36      DS4
ATOM  36518  CD1 LEU D  64     145.446 111.697  23.814  1.00 10.36      DS4
ATOM  36519  CD2 LEU D  64     145.467 111.637  26.276  1.00 10.36      DS4
ATOM  36520  C   LEU D  64     148.166 110.432  26.914  1.00 10.47      DS4
ATOM  36521  O   LEU D  64     147.702 110.274  28.031  1.00 10.47      DS4
ATOM  36522  N   ARG D  65     148.549 109.418  26.147  1.00 31.15      DS4
ATOM  36523  CA  ARG D  65     148.386 108.047  26.606  1.00 31.15      DS4
ATOM  36524  CB  ARG D  65     149.020 107.060  25.634  1.00 44.56      DS4
ATOM  36525  CG  ARG D  65     148.440 105.666  25.783  1.00 44.56      DS4
ATOM  36526  CD  ARG D  65     149.138 104.630  24.931  1.00 44.56      DS4
ATOM  36527  NE  ARG D  65     150.113 103.860  25.696  1.00 44.56      DS4
ATOM  36528  CZ  ARG D  65     151.429 104.002  25.592  1.00 44.56      DS4
ATOM  36529  NH1 ARG D  65     151.945 104.887  24.752  1.00 44.56      DS4
ATOM  36530  NH2 ARG D  65     152.234 103.247  26.326  1.00 44.56      DS4
ATOM  36531  C   ARG D  65     148.960 107.812  27.995  1.00 31.15      DS4
ATOM  36532  O   ARG D  65     148.312 107.206  28.846  1.00 31.15      DS4
ATOM  36533  N   ARG D  66     150.172 108.285  28.238  1.00 45.72      DS4
ATOM  36534  CA  ARG D  66     150.767 108.089  29.549  1.00 45.72      DS4
ATOM  36535  CB  ARG D  66     152.209 108.587  29.554  1.00 46.88      DS4
ATOM  36536  CG  ARG D  66     153.186 107.538  29.053  1.00 46.88      DS4
ATOM  36537  CD  ARG D  66     154.559 108.110  28.811  1.00 46.88      DS4
ATOM  36538  NE  ARG D  66     155.594 107.084  28.892  1.00 46.88      DS4
ATOM  36539  CZ  ARG D  66     156.893 107.326  28.747  1.00 46.88      DS4
ATOM  36540  NH1 ARG D  66     157.321 108.558  28.504  1.00 46.88      DS4
ATOM  36541  NH2 ARG D  66     157.773 106.344  28.873  1.00 46.88      DS4
ATOM  36542  C   ARG D  66     149.944 108.787  30.617  1.00 45.72      DS4
ATOM  36543  O   ARG D  66     149.973 108.412  31.785  1.00 45.72      DS4
ATOM  36544  N   ILE D  67     149.185 109.789  30.201  1.00 43.43      DS4
ATOM  36545  CA  ILE D  67     148.345 110.544  31.117  1.00 43.43      DS4
ATOM  36546  CB  ILE D  67     147.799 111.805  30.420  1.00 48.28      DS4
ATOM  36547  CG2 ILE D  67     146.568 112.331  31.130  1.00 48.28      DS4
ATOM  36548  CG1 ILE D  67     148.914 112.846  30.354  1.00 48.28      DS4
ATOM  36549  CD1 ILE D  67     148.511 114.129  29.692  1.00 48.28      DS4
ATOM  36550  C   ILE D  67     147.187 109.729  31.678  1.00 43.43      DS4
ATOM  36551  O   ILE D  67     146.876 109.814  32.868  1.00 43.43      DS4
ATOM  36552  N   TYR D  68     146.546 108.944  30.825  1.00 38.87      DS4
ATOM  36553  CA  TYR D  68     145.428 108.134  31.275  1.00 38.87      DS4
ATOM  36554  CB  TYR D  68     144.353 108.059  30.195  1.00 36.63      DS4
ATOM  36555  CG  TYR D  68     143.658 109.368  29.952  1.00 36.63      DS4
ATOM  36556  CD1 TYR D  68     144.352 110.457  29.453  1.00 36.63      DS4
ATOM  36557  CE1 TYR D  68     143.720 111.674  29.258  1.00 36.63      DS4
ATOM  36558  CD2 TYR D  68     142.311 109.527  30.249  1.00 36.63      DS4
ATOM  36559  CE2 TYR D  68     141.671 110.737  30.062  1.00 36.63      DS4
ATOM  36560  CZ  TYR D  68     142.379 111.808  29.568  1.00 36.63      DS4
ATOM  36561  OH  TYR D  68     141.767 113.027  29.404  1.00 36.63      DS4
ATOM  36562  C   TYR D  68     145.851 106.730  31.676  1.00 38.87      DS4
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ATOM  36563  O   TYR D  68     145.009 105.849  31.847  1.00 38.87      DS4
ATOM  36564  N   GLY D  69     147.157 106.525  31.816  1.00 46.75      DS4
ATOM  36565  CA  GLY D  69     147.674 105.228  32.228  1.00 46.75      DS4
ATOM  36566  C   GLY D  69     147.209 104.019  31.437  1.00 46.75      DS4
ATOM  36567  O   GLY D  69     147.463 102.874  31.824  1.00 46.75      DS4
ATOM  36568  N   ILE D  70     146.536 104.271  30.324  1.00 35.72      DS4
ATOM  36569  CA  ILE D  70     146.038 103.205  29.474  1.00 35.72      DS4
ATOM  36570  CB  ILE D  70     144.879 103.741  28.621  1.00 35.74      DS4
ATOM  36571  CG2 ILE D  70     145.406 104.671  27.558  1.00 35.74      DS4
ATOM  36572  CG1 ILE D  70     144.134 102.599  27.958  1.00 35.74      DS4
ATOM  36573  CD1 ILE D  70     143.137 103.077  26.929  1.00 35.74      DS4
ATOM  36574  C   ILE D  70     147.179 102.660  28.580  1.00 35.72      DS4
ATOM  36575  O   ILE D  70     148.143 103.372  28.268  1.00 35.72      DS4
ATOM  36576  N   SER D  71     147.074 101.395  28.180  1.00 37.27      DS4
ATOM  36577  CA  SER D  71     148.093 100.758  27.343  1.00 37.27      DS4
ATOM  36578  CB  SER D  71     147.972  99.235  27.414  1.00 66.17      DS4
ATOM  36579  OG  SER D  71     146.849  98.784  26.674  1.00 66.17      DS4
ATOM  36580  C   SER D  71     147.973 101.173  25.890  1.00 37.27      DS4
ATOM  36581  O   SER D  71     146.920 101.630  25.454  1.00 37.27      DS4
ATOM  36582  N   GLU D  72     149.051 100.981  25.136  1.00 43.28      DS4
ATOM  36583  CA  GLU D  72     149.064 101.341  23.722  1.00 43.28      DS4
ATOM  36584  CB  GLU D  72     150.452 101.137  23.115  1.00 67.60      DS4
ATOM  36585  CG  GLU D  72     150.533 101.478  21.631  1.00 67.60      DS4
ATOM  36586  CD  GLU D  72     150.200 102.933  21.318  1.00 67.60      DS4
ATOM  36587  OE1 GLU D  72     149.071 103.372  21.603  1.00 67.60      DS4
ATOM  36588  OE2 GLU D  72     151.069 103.643  20.774  1.00 67.60      DS4
ATOM  36589  C   GLU D  72     148.044 100.538  22.946  1.00 43.28      DS4
ATOM  36590  O   GLU D  72     147.416 101.055  22.040  1.00 43.28      DS4
ATOM  36591  N   ARG D  73     147.870  99.274  23.297  1.00 47.75      DS4
ATOM  36592  CA  ARG D  73     146.891  98.456  22.597  1.00 47.75      DS4
ATOM  36593  CB  ARG D  73     146.796  97.075  23.241  1.00177.82      DS4
ATOM  36594  CG  ARG D  73     146.020  96.061  22.420  1.00177.82      DS4
ATOM  36595  CD  ARG D  73     146.755  95.715  21.137  1.00177.82      DS4
ATOM  36596  NE  ARG D  73     146.057  94.688  20.370  1.00177.82      DS4
ATOM  36597  CZ  ARG D  73     146.530  94.135  19.259  1.00177.82      DS4
ATOM  36598  NH1 ARG D  73     147.709  94.508  18.779  1.00177.82      DS4
ATOM  36599  NH2 ARG D  73     145.825  93.208  18.625  1.00177.82      DS4
ATOM  36600  C   ARG D  73     145.538  99.162  22.674  1.00 47.75      DS4
ATOM  36601  O   ARG D  73     144.970  99.545  21.653  1.00 47.75      DS4
ATOM  36602  N   GLN D  74     145.043  99.353  23.895  1.00 35.02      DS4
ATOM  36603  CA  GLN D  74     143.756 100.000  24.114  1.00 35.02      DS4
ATOM  36604  CB  GLN D  74     143.434 100.053  25.602  1.00 54.72      DS4
ATOM  36605  CG  GLN D  74     143.038  98.733  26.213  1.00 54.72      DS4
ATOM  36606  CD  GLN D  74     142.541  98.892  27.638  1.00 54.72      DS4
ATOM  36607  OE1 GLN D  74     143.295  99.292  28.533  1.00 54.72      DS4
ATOM  36608  NE2 GLN D  74     141.264  98.588  27.856  1.00 54.72      DS4
ATOM  36609  C   GLN D  74     143.688 101.408  23.550  1.00 35.02      DS4
ATOM  36610  O   GLN D  74     142.679 101.807  22.975  1.00 35.02      DS4
ATOM  36611  N   PHE D  75     144.764 102.162  23.727  1.00 33.41      DS4
ATOM  36612  CA  PHE D  75     144.820 103.538  23.252  1.00 33.41      DS4
ATOM  36613  CB  PHE D  75     146.209 104.119  23.531  1.00 25.34      DS4
ATOM  36614  CG  PHE D  75     146.283 105.605  23.413  1.00 25.34      DS4
ATOM  36615  CD1 PHE D  75     145.459 106.419  24.171  1.00 25.34      DS4
ATOM  36616  CD2 PHE D  75     147.196 106.202  22.564  1.00 25.34      DS4
ATOM  36617  CE1 PHE D  75     145.544 107.816  24.083  1.00 25.34      DS4
ATOM  36618  CE2 PHE D  75     147.288 107.596  22.471  1.00 25.34      DS4
ATOM  36619  CZ  PHE D  75     146.459 108.399  23.233  1.00 25.34      DS4
ATOM  36620  C   PHE D  75     144.515 103.597  21.762  1.00 33.41      DS4
ATOM  36621  O   PHE D  75     143.666 104.372  21.314  1.00 33.41      DS4
ATOM  36622  N   ARG D  76     145.198 102.748  21.005  1.00 23.74      DS4
ATOM  36623  CA  ARG D  76     145.043 102.696  19.557  1.00 23.74      DS4
ATOM  36624  CB  ARG D  76     145.967 101.629  18.966  1.00103.06      DS4
ATOM  36625  CG  ARG D  76     146.122 101.717  17.464  1.00103.06      DS4
ATOM  36626  CD  ARG D  76     146.912 102.950  17.065  1.00103.06      DS4
ATOM  36627  NE  ARG D  76     146.708 103.297  15.660  1.00103.06      DS4
ATOM  36628  CZ  ARG D  76     147.034 102.519  14.632  1.00103.06      DS4
ATOM  36629  NH1 ARG D  76     147.592 101.330  14.837  1.00103.06      DS4
ATOM  36630  NH2 ARG D  76     146.787 102.929  13.393  1.00103.06      DS4
ATOM  36631  C   ARG D  76     143.602 102.402  19.179  1.00 23.74      DS4
ATOM  36632  O   ARG D  76     142.971 103.165  18.443  1.00 23.74      DS4
ATOM  36633  N   ASN D  77     143.068 101.298  19.687  1.00 34.78      DS4
ATOM  36634  CA  ASN D  77     141.697 100.956  19.358  1.00 34.78      DS4
ATOM  36635  CB  ASN D  77     141.207  99.781  20.197  1.00 65.77      DS4
ATOM  36636  CG  ASN D  77     142.155  98.609  20.164  1.00 65.77      DS4
ATOM  36637  OD1 ASN D  77     142.785  98.330  19.142  1.00 65.77      DS4
ATOM  36638  ND2 ASN D  77     142.252  97.900  21.284  1.00 65.77      DS4
ATOM  36639  C   ASN D  77     140.833 102.172  19.634  1.00 34.78      DS4
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ATOM  36640  O   ASN D  77     140.120 102.647  18.759  1.00 34.78      DS4
ATOM  36641  N   LEU D  78     140.912 102.689  20.851  1.00 32.44      DS4
ATOM  36642  CA  LEU D  78     140.113 103.839  21.198  1.00 32.44      DS4
ATOM  36643  CB  LEU D  78     140.563 104.423  22.520  1.00 22.05      DS4
ATOM  36644  CG  LEU D  78     139.468 104.340  23.580  1.00 22.05      DS4
ATOM  36645  CD1 LEU D  78     139.887 105.116  24.824  1.00 22.05      DS4
ATOM  36646  CD2 LEU D  78     138.181 104.903  23.007  1.00 22.05      DS4
ATOM  36647  C   LEU D  78     140.223 104.883  20.119  1.00 32.44      DS4
ATOM  36648  O   LEU D  78     139.211 105.343  19.586  1.00 32.44      DS4
ATOM  36649  N   PHE D  79     141.455 105.249  19.790  1.00 32.08      DS4
ATOM  36650  CA  PHE D  79     141.681 106.245  18.745  1.00 32.08      DS4
ATOM  36651  CB  PHE D  79     143.180 106.430  18.493  1.00 23.25      DS4
ATOM  36652  CG  PHE D  79     143.482 107.280  17.305  1.00 23.25      DS4
ATOM  36653  CD1 PHE D  79     143.428 108.661  17.393  1.00 23.25      DS4
ATOM  36654  CD2 PHE D  79     143.802 106.698  16.088  1.00 23.25      DS4
ATOM  36655  CE1 PHE D  79     143.691 109.452  16.282  1.00 23.25      DS4
ATOM  36656  CE2 PHE D  79     144.065 107.469  14.976  1.00 23.25      DS4
ATOM  36657  CZ  PHE D  79     144.011 108.849  15.068  1.00 23.25      DS4
ATOM  36658  C   PHE D  79     140.990 105.820  17.446  1.00 32.08      DS4
ATOM  36659  O   PHE D  79     140.119 106.525  16.924  1.00 32.08      DS4
ATOM  36660  N   GLU D  80     141.382 104.661  16.930  1.00 23.68      DS4
ATOM  36661  CA  GLU D  80     140.780 104.155  15.715  1.00 23.68      DS4
ATOM  36662  CB  GLU D  80     141.223 102.719  15.451  1.00140.45      DS4
ATOM  36663  CG  GLU D  80     142.635 102.634  14.903  1.00140.45      DS4
ATOM  36664  CD  GLU D  80     142.764 103.279  13.533  1.00140.45      DS4
ATOM  36665  OE1 GLU D  80     143.910 103.475  13.068  1.00140.45      DS4
ATOM  36666  OE2 GLU D  80     141.718 103.582  12.919  1.00140.45      DS4
ATOM  36667  C   GLU D  80     139.262 104.233  15.777  1.00 23.68      DS4
ATOM  36668  O   GLU D  80     138.625 104.446  14.755  1.00 23.68      DS4
ATOM  36669  N   GLU D  81     138.672 104.082  16.965  1.00 39.86      DS4
ATOM  36670  CA  GLU D  81     137.214 104.155  17.055  1.00 39.86      DS4
ATOM  36671  CB  GLU D  81     136.665 103.709  18.421  1.00 69.52      DS4
ATOM  36672  CG  GLU D  81     135.115 103.775  18.444  1.00 69.52      DS4
ATOM  36673  CD  GLU D  81     134.451 103.144  19.672  1.00 69.52      DS4
ATOM  36674  OE1 GLU D  81     133.194 103.103  19.712  1.00 69.52      DS4
ATOM  36675  OE2 GLU D  81     135.174 102.695  20.589  1.00 69.52      DS4
ATOM  36676  C   GLU D  81     136.801 105.578  16.810  1.00 39.86      DS4
ATOM  36677  O   GLU D  81     135.930 105.856  15.999  1.00 39.86      DS4
ATOM  36678  N   ALA D  82     137.441 106.487  17.518  1.00 35.49      DS4
ATOM  36679  CA  ALA D  82     137.115 107.877  17.345  1.00 35.49      DS4
ATOM  36680  CB  ALA D  82     138.053 108.731  18.171  1.00 43.57      DS4
ATOM  36681  C   ALA D  82     137.258 108.207  15.867  1.00 35.49      DS4
ATOM  36682  O   ALA D  82     136.433 108.923  15.288  1.00 35.49      DS4
ATOM  36683  N   SER D  83     138.305 107.661  15.253  1.00 42.69      DS4
ATOM  36684  CA  SER D  83     138.572 107.917  13.847  1.00 42.69      DS4
ATOM  36685  CB  SER D  83     139.820 107.166  13.400  1.00 50.44      DS4
ATOM  36686  OG  SER D  83     140.949 107.554  14.167  1.00 50.44      DS4
ATOM  36687  C   SER D  83     137.399 107.497  12.999  1.00 42.69      DS4
ATOM  36688  O   SER D  83     137.007 108.213  12.075  1.00 42.69      DS4
ATOM  36689  N   LYS D  84     136.838 106.337  13.331  1.00 47.22      DS4
ATOM  36690  CA  LYS D  84     135.708 105.777  12.602  1.00 47.22      DS4
ATOM  36691  CB  LYS D  84     135.492 104.310  12.990  1.00201.30      DS4
ATOM  36692  CG  LYS D  84     136.619 103.378  12.561  1.00201.30      DS4
ATOM  36693  CD  LYS D  84     136.318 101.924  12.918  1.00201.30      DS4
ATOM  36694  CE  LYS D  84     137.462 101.000  12.508  1.00201.30      DS4
ATOM  36695  NZ  LYS D  84     137.185  99.574  12.846  1.00201.30      DS4
ATOM  36696  C   LYS D  84     134.423 106.554  12.820  1.00 47.22      DS4
ATOM  36697  O   LYS D  84     133.632 106.708  11.893  1.00 47.22      DS4
ATOM  36698  N   LYS D  85     134.209 107.048  14.037  1.00 74.77      DS4
ATOM  36699  CA  LYS D  85     132.989 107.793  14.334  1.00 74.77      DS4
ATOM  36700  CB  LYS D  85     132.876 108.105  15.828  1.00 81.27      DS4
ATOM  36701  CG  LYS D  85     132.989 106.899  16.741  1.00 81.27      DS4
ATOM  36702  CD  LYS D  85     132.339 107.163  18.090  1.00 81.27      DS4
ATOM  36703  CE  LYS D  85     130.833 107.328  17.934  1.00 81.27      DS4
ATOM  36704  NZ  LYS D  85     130.165 107.509  19.245  1.00 81.27      DS4
ATOM  36705  C   LYS D  85     132.961 109.096  13.569  1.00 74.77      DS4
ATOM  36706  O   LYS D  85     133.929 109.458  12.897  1.00 74.77      DS4
ATOM  36707  N   LYS D  86     131.838 109.798  13.674  1.00 70.96      DS4
ATOM  36708  CA  LYS D  86     131.679 111.086  13.012  1.00 70.96      DS4
ATOM  36709  CB  LYS D  86     130.200 111.462  12.905  1.00131.28      DS4
ATOM  36710  CG  LYS D  86     129.398 110.638  11.913  1.00131.28      DS4
ATOM  36711  CD  LYS D  86     127.975 111.163  11.803  1.00131.28      DS4
ATOM  36712  CE  LYS D  86     127.951 112.633  11.398  1.00131.28      DS4
ATOM  36713  NZ  LYS D  86     126.570 113.203  11.371  1.00131.28      DS4
ATOM  36714  C   LYS D  86     132.398 112.140  13.838  1.00 70.96      DS4
ATOM  36715  O   LYS D  86     133.188 111.821  14.721  1.00 70.96      DS4
ATOM  36716  N   GLY D  87     132.124 113.401  13.542  1.00 79.63      DS4
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ATOM  36717  CA  GLY D  87     132.742 114.471  14.296  1.00 79.63      DS4
ATOM  36718  C   GLY D  87     134.254 114.512  14.278  1.00 79.63      DS4
ATOM  36719  O   GLY D  87     134.935 113.619  13.762  1.00 79.63      DS4
ATOM  36720  N   VAL D  88     134.774 115.578  14.868  1.00 35.76      DS4
ATOM  36721  CA  VAL D  88     136.201 115.810  14.939  1.00 35.76      DS4
ATOM  36722  CB  VAL D  88     136.495 117.116  15.679  1.00 20.11      DS4
ATOM  36723  CG1 VAL D  88     138.013 117.251  15.910  1.00 20.11      DS4
ATOM  36724  CG2 VAL D  88     135.933 118.285  14.901  1.00 20.11      DS4
ATOM  36725  C   VAL D  88     136.944 114.686  15.638  1.00 35.76      DS4
ATOM  36726  O   VAL D  88     136.992 114.621  16.870  1.00 35.76      DS4
ATOM  36727  N   THR D  89     137.530 113.798  14.856  1.00 41.20      DS4
ATOM  36728  CA  THR D  89     138.272 112.704  15.446  1.00 41.20      DS4
ATOM  36729  CB  THR D  89     139.350 112.233  14.491  1.00 60.31      DS4
ATOM  36730  OG1 THR D  89     138.797 112.144  13.174  1.00 60.31      DS4
ATOM  36731  CG2 THR D  89     139.876 110.886  14.920  1.00 60.31      DS4
ATOM  36732  C   THR D  89     138.937 113.199  16.736  1.00 41.20      DS4
ATOM  36733  O   THR D  89     138.603 112.761  17.840  1.00 41.20      DS4
ATOM  36734  N   GLY D  90     139.856 114.144  16.581  1.00 52.29      DS4
ATOM  36735  CA  GLY D  90     140.567 114.684  17.720  1.00 52.29      DS4
ATOM  36736  C   GLY D  90     139.752 114.677  18.990  1.00 52.29      DS4
ATOM  36737  O   GLY D  90     140.000 113.884  19.888  1.00 52.29      DS4
ATOM  36738  N   SER D  91     138.769 115.563  19.060  1.00 53.01      DS4
ATOM  36739  CA  SER D  91     137.922 115.664  20.234  1.00 53.01      DS4
ATOM  36740  CB  SER D  91     136.765 116.624  19.969  1.00 61.74      DS4
ATOM  36741  OG  SER D  91     137.243 117.917  19.650  1.00 61.74      DS4
ATOM  36742  C   SER D  91     137.367 114.310  20.635  1.00 53.01      DS4
ATOM  36743  O   SER D  91     137.768 113.752  21.660  1.00 53.01      DS4
ATOM  36744  N   VAL D  92     136.448 113.792  19.821  1.00 39.79      DS4
ATOM  36745  CA  VAL D  92     135.806 112.506  20.090  1.00 39.79      DS4
ATOM  36746  CB  VAL D  92     135.454 111.769  18.803  1.00 18.01      DS4
ATOM  36747  CG1 VAL D  92     134.522 110.623  19.108  1.00 18.01      DS4
ATOM  36748  CG2 VAL D  92     134.815 112.721  17.835  1.00 18.01      DS4
ATOM  36749  C   VAL D  92     136.700 111.604  20.908  1.00 39.79      DS4
ATOM  36750  O   VAL D  92     136.293 111.098  21.950  1.00 39.79      DS4
ATOM  36751  N   PHE D  93     137.916 111.404  20.420  1.00 36.43      DS4
ATOM  36752  CA  PHE D  93     138.899 110.585  21.110  1.00 36.43      DS4
ATOM  36753  CB  PHE D  93     140.282 110.842  20.509  1.00 47.22      DS4
ATOM  36754  CG  PHE D  93     141.339 109.890  20.975  1.00 47.22      DS4
ATOM  36755  CD1 PHE D  93     142.680 110.203  20.816  1.00 47.22      DS4
ATOM  36756  CD2 PHE D  93     141.000 108.666  21.536  1.00 47.22      DS4
ATOM  36757  CE1 PHE D  93     143.673 109.311  21.207  1.00 47.22      DS4
ATOM  36758  CE2 PHE D  93     141.983 107.765  21.931  1.00 47.22      DS4
ATOM  36759  CZ  PHE D  93     143.325 108.088  21.765  1.00 47.22      DS4
ATOM  36760  C   PHE D  93     138.899 110.974  22.594  1.00 36.43      DS4
ATOM  36761  O   PHE D  93     138.470 110.196  23.463  1.00 36.43      DS4
ATOM  36762  N   LEU D  94     139.378 112.184  22.874  1.00 27.11      DS4
ATOM  36763  CA  LEU D  94     139.425 112.693  24.234  1.00 27.11      DS4
ATOM  36764  CB  LEU D  94     139.630 114.206  24.218  1.00 46.87      DS4
ATOM  36765  CG  LEU D  94     140.937 114.694  23.597  1.00 46.87      DS4
ATOM  36766  CD1 LEU D  94     140.981 116.212  23.615  1.00 46.87      DS4
ATOM  36767  CD2 LEU D  94     142.104 114.117  24.374  1.00 46.87      DS4
ATOM  36768  C   LEU D  94     138.106 112.357  24.906  1.00 27.11      DS4
ATOM  36769  O   LEU D  94     138.053 112.061  26.098  1.00 27.11      DS4
ATOM  36770  N   GLY D  95     137.039 112.403  24.121  1.00 42.47      DS4
ATOM  36771  CA  GLY D  95     135.731 112.081  24.649  1.00 42.47      DS4
ATOM  36772  C   GLY D  95     135.718 110.678  25.220  1.00 42.47      DS4
ATOM  36773  O   GLY D  95     135.512 110.489  26.420  1.00 42.47      DS4
ATOM  36774  N   LEU D  96     135.949 109.689  24.362  1.00 33.36      DS4
ATOM  36775  CA  LEU D  96     135.953 108.306  24.803  1.00 33.36      DS4
ATOM  36776  CB  LEU D  96     136.317 107.379  23.654  1.00 32.58      DS4
ATOM  36777  CG  LEU D  96     135.402 107.407  22.437  1.00 32.58      DS4
ATOM  36778  CD1 LEU D  96     133.968 107.771  22.850  1.00 32.58      DS4
ATOM  36779  CD2 LEU D  96     135.950 108.415  21.463  1.00 32.58      DS4
ATOM  36780  C   LEU D  96     136.927 108.097  25.945  1.00 33.36      DS4
ATOM  36781  O   LEU D  96     136.582 107.487  26.969  1.00 33.36      DS4
ATOM  36782  N   LEU D  97     138.148 108.598  25.759  1.00 30.07      DS4
ATOM  36783  CA  LEU D  97     139.180 108.480  26.783  1.00 30.07      DS4
ATOM  36784  CB  LEU D  97     140.411 109.305  26.408  1.00 44.59      DS4
ATOM  36785  CG  LEU D  97     141.569 108.608  25.705  1.00 44.59      DS4
ATOM  36786  CD1 LEU D  97     142.643 109.631  25.364  1.00 44.59      DS4
ATOM  36787  CD2 LEU D  97     142.127 107.525  26.612  1.00 44.59      DS4
ATOM  36788  C   LEU D  97     138.660 108.967  28.125  1.00 30.07      DS4
ATOM  36789  O   LEU D  97     138.954 108.388  29.152  1.00 30.07      DS4
ATOM  36790  N   GLU D  98     137.870 110.030  28.102  1.00 49.11      DS4
ATOM  36791  CA  GLU D  98     137.341 110.606  29.324  1.00 49.11      DS4
ATOM  36792  CB  GLU D  98     136.950 112.059  29.067  1.00 52.62      DS4
ATOM  36793  CG  GLU D  98     137.011 112.917  30.298  1.00 52.62      DS4
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ATOM  36794  CD  GLU D  98     138.433 113.213  30.705  1.00 52.62      DS4
ATOM  36795  OE1 GLU D  98     139.102 113.948  29.959  1.00 52.62      DS4
ATOM  36796  OE2 GLU D  98     138.889 112.714  31.754  1.00 52.62      DS4
ATOM  36797  C   GLU D  98     136.144 109.845  29.892  1.00 49.11      DS4
ATOM  36798  O   GLU D  98     135.716 110.092  31.022  1.00 49.11      DS4
ATOM  36799  N   SER D  99     135.597 108.922  29.116  1.00 28.04      DS4
ATOM  36800  CA  SER D  99     134.446 108.167  29.586  1.00 28.04      DS4
ATOM  36801  CB  SER D  99     133.518 107.838  28.408  1.00 23.00      DS4
ATOM  36802  OG  SER D  99     133.086 109.013  27.739  1.00 23.00      DS4
ATOM  36803  C   SER D  99     134.859 106.878  30.310  1.00 28.04      DS4
ATOM  36804  O   SER D  99     134.015 106.082  30.747  1.00 28.04      DS4
ATOM  36805  N   ARG D 100     136.158 106.657  30.439  1.00 35.96      DS4
ATOM  36806  CA  ARG D 100     136.595 105.451  31.109  1.00 35.96      DS4
ATOM  36807  CB  ARG D 100     138.113 105.300  31.021  1.00 54.27      DS4
ATOM  36808  CG  ARG D 100     138.614 104.924  29.635  1.00 54.27      DS4
ATOM  36809  CD  ARG D 100     140.132 104.990  29.561  1.00 54.27      DS4
ATOM  36810  NE  ARG D 100     140.808 104.006  30.411  1.00 54.27      DS4
ATOM  36811  CZ  ARG D 100     140.932 102.718  30.109  1.00 54.27      DS4
ATOM  36812  NH1 ARG D 100     140.424 102.254  28.972  1.00 54.27      DS4
ATOM  36813  NH2 ARG D 100     141.562 101.897  30.938  1.00 54.27      DS4
ATOM  36814  C   ARG D 100     136.156 105.549  32.547  1.00 35.96      DS4
ATOM  36815  O   ARG D 100     136.401 106.555  33.205  1.00 35.96      DS4
ATOM  36816  N   LEU D 101     135.471 104.512  33.016  1.00 32.42      DS4
ATOM  36817  CA  LEU D 101     135.003 104.455  34.397  1.00 32.42      DS4
ATOM  36818  CB  LEU D 101     134.491 103.052  34.734  1.00 36.96      DS4
ATOM  36819  CG  LEU D 101     133.914 102.887  36.138  1.00 36.96      DS4
ATOM  36820  CD1 LEU D 101     132.596 103.636  36.210  1.00 36.96      DS4
ATOM  36821  CD2 LEU D 101     133.688 101.431  36.448  1.00 36.96      DS4
ATOM  36822  C   LEU D 101     136.149 104.792  35.338  1.00 32.42      DS4
ATOM  36823  O   LEU D 101     136.037 105.695  36.155  1.00 32.42      DS4
ATOM  36824  N   ASP D 102     137.256 104.067  35.213  1.00 58.63      DS4
ATOM  36825  CA  ASP D 102     138.398 104.317  36.078  1.00 58.63      DS4
ATOM  36826  CB  ASP D 102     139.630 103.462  35.663  1.00 79.96      DS4
ATOM  36827  CG  ASP D 102     140.120 103.736  34.240  1.00 79.96      DS4
ATOM  36828  OD1 ASP D 102     139.316 103.626  33.296  1.00 79.96      DS4
ATOM  36829  OD2 ASP D 102     141.321 104.044  34.064  1.00 79.96      DS4
ATOM  36830  C   ASP D 102     138.733 105.808  36.105  1.00 58.63      DS4
ATOM  36831  O   ASP D 102     139.204 106.330  37.116  1.00 58.63      DS4
ATOM  36832  N   ASN D 103     138.455 106.494  35.002  1.00 39.01      DS4
ATOM  36833  CA  ASN D 103     138.721 107.925  34.904  1.00 39.01      DS4
ATOM  36834  CB  ASN D 103     138.720 108.362  33.443  1.00 39.27      DS4
ATOM  36835  CG  ASN D 103     138.946 109.849  33.277  1.00 39.27      DS4
ATOM  36836  OD1 ASN D 103     140.034 110.373  33.559  1.00 39.27      DS4
ATOM  36837  ND2 ASN D 103     137.916 110.542  32.812  1.00 39.27      DS4
ATOM  36838  C   ASN D 103     137.635 108.670  35.644  1.00 39.01      DS4
ATOM  36839  O   ASN D 103     137.889 109.342  36.637  1.00 39.01      DS4
ATOM  36840  N   VAL D 104     136.416 108.542  35.143  1.00 35.92      DS4
ATOM  36841  CA  VAL D 104     135.280 109.195  35.751  1.00 35.92      DS4
ATOM  36842  CB  VAL D 104     133.984 108.530  35.316  1.00 32.83      DS4
ATOM  36843  CG1 VAL D 104     132.798 109.310  35.841  1.00 32.83      DS4
ATOM  36844  CG2 VAL D 104     133.939 108.468  33.822  1.00 32.83      DS4
ATOM  36845  C   VAL D 104     135.391 109.144  37.268  1.00 35.92      DS4
ATOM  36846  O   VAL D 104     135.278 110.169  37.935  1.00 35.92      DS4
ATOM  36847  N   VAL D 105     135.615 107.959  37.820  1.00 30.19      DS4
ATOM  36848  CA  VAL D 105     135.745 107.851  39.260  1.00 30.19      DS4
ATOM  36849  CB  VAL D 105     136.156 106.428  39.676  1.00 21.43      DS4
ATOM  36850  CG1 VAL D 105     136.845 106.435  41.034  1.00 21.43      DS4
ATOM  36851  CG2 VAL D 105     134.917 105.562  39.742  1.00 21.43      DS4
ATOM  36852  C   VAL D 105     136.776 108.864  39.735  1.00 30.19      DS4
ATOM  36853  O   VAL D 105     136.489 109.692  40.590  1.00 30.19      DS4
ATOM  36854  N   TYR D 106     137.975 108.808  39.177  1.00 43.25      DS4
ATOM  36855  CA  TYR D 106     139.010 109.756  39.557  1.00 43.25      DS4
ATOM  36856  CB  TYR D 106     140.238 109.569  38.695  1.00 43.33      DS4
ATOM  36857  CG  TYR D 106     141.114 110.786  38.672  1.00 43.33      DS4
ATOM  36858  CD1 TYR D 106     142.021 111.028  39.698  1.00 43.33      DS4
ATOM  36859  CE1 TYR D 106     142.816 112.160  39.702  1.00 43.33      DS4
ATOM  36860  CD2 TYR D 106     141.019 111.710  37.638  1.00 43.33      DS4
ATOM  36861  CE2 TYR D 106     141.806 112.846  37.626  1.00 43.33      DS4
ATOM  36862  CZ  TYR D 106     142.707 113.072  38.665  1.00 43.33      DS4
ATOM  36863  OH  TYR D 106     143.486 114.218  38.677  1.00 43.33      DS4
ATOM  36864  C   TYR D 106     138.513 111.179  39.366  1.00 43.25      DS4
ATOM  36865  O   TYR D 106     138.706 112.029  40.229  1.00 43.25      DS4
ATOM  36866  N   ARG D 107     137.907 111.444  38.212  1.00 43.92      DS4
ATOM  36867  CA  ARG D 107     137.373 112.770  37.937  1.00 43.92      DS4
ATOM  36868  CB  ARG D 107     136.467 112.773  36.693  1.00 72.76      DS4
ATOM  36869  CG  ARG D 107     137.166 112.962  35.342  1.00 72.76      DS4
ATOM  36870  CD  ARG D 107     137.810 114.339  35.189  1.00 72.76      DS4
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ATOM  36871  NE  ARG D 107     138.630 114.410  33.981  1.00 72.76      DS4
ATOM  36872  CZ  ARG D 107     139.515 115.367  33.727  1.00 72.76      DS4
ATOM  36873  NH1 ARG D 107     139.701 116.351  34.593  1.00 72.76      DS4
ATOM  36874  NH2 ARG D 107     140.231 115.329  32.614  1.00 72.76      DS4
ATOM  36875  C   ARG D 107     136.541 113.215  39.125  1.00 43.92      DS4
ATOM  36876  O   ARG D 107     136.661 114.347  39.568  1.00 43.92      DS4
ATOM  36877  N   LEU D 108     135.708 112.315  39.644  1.00 48.49      DS4
ATOM  36878  CA  LEU D 108     134.829 112.632  40.768  1.00 48.49      DS4
ATOM  36879  CB  LEU D 108     133.602 111.720  40.741  1.00 23.40      DS4
ATOM  36880  CG  LEU D 108     132.704 112.013  39.539  1.00 23.40      DS4
ATOM  36881  CD1 LEU D 108     131.448 111.201  39.676  1.00 23.40      DS4
ATOM  36882  CD2 LEU D 108     132.361 113.497  39.459  1.00 23.40      DS4
ATOM  36883  C   LEU D 108     135.428 112.627  42.170  1.00 48.49      DS4
ATOM  36884  O   LEU D 108     134.702 112.532  43.150  1.00 48.49      DS4
ATOM  36885  N   GLY D 109     136.742 112.729  42.278  1.00 51.58      DS4
ATOM  36886  CA  GLY D 109     137.346 112.754  43.593  1.00 51.58      DS4
ATOM  36887  C   GLY D 109     137.249 111.498  44.443  1.00 51.58      DS4
ATOM  36888  O   GLY D 109     137.794 111.479  45.545  1.00 51.58      DS4
ATOM  36889  N   PHE D 110     136.563 110.454  43.986  1.00 41.44      DS4
ATOM  36890  CA  PHE D 110     136.504 109.234  44.792  1.00 41.44      DS4
ATOM  36891  CB  PHE D 110     135.651 108.144  44.129  1.00 37.61      DS4
ATOM  36892  CG  PHE D 110     134.217 108.536  43.910  1.00 37.61      DS4
ATOM  36893  CD1 PHE D 110     133.614 109.507  44.697  1.00 37.61      DS4
ATOM  36894  CD2 PHE D 110     133.465 107.925  42.916  1.00 37.61      DS4
ATOM  36895  CE1 PHE D 110     132.281 109.862  44.489  1.00 37.61      DS4
ATOM  36896  CE2 PHE D 110     132.135 108.272  42.703  1.00 37.61      DS4
ATOM  36897  CZ  PHE D 110     131.543 109.238  43.485  1.00 37.61      DS4
ATOM  36898  C   PHE D 110     137.940 108.741  44.921  1.00 41.44      DS4
ATOM  36899  O   PHE D 110     138.322 108.149  45.932  1.00 41.44      DS4
ATOM  36900  N   ALA D 111     138.734 109.002  43.884  1.00 21.69      DS4
ATOM  36901  CA  ALA D 111     140.130 108.601  43.877  1.00 21.69      DS4
ATOM  36902  CB  ALA D 111     140.435 107.826  42.621  1.00113.81      DS4
ATOM  36903  C   ALA D 111     141.059 109.805  43.978  1.00 21.69      DS4
ATOM  36904  O   ALA D 111     140.743 110.904  43.506  1.00 21.69      DS4
ATOM  36905  N   VAL D 112     142.209 109.587  44.603  1.00 48.34      DS4
ATOM  36906  CA  VAL D 112     143.211 110.622  44.771  1.00 48.34      DS4
ATOM  36907  CB  VAL D 112     144.263 110.202  45.788  1.00 74.90      DS4
ATOM  36908  CG1 VAL D 112     145.355 111.255  45.871  1.00 74.90      DS4
ATOM  36909  CG2 VAL D 112     143.613 109.977  47.133  1.00 74.90      DS4
ATOM  36910  C   VAL D 112     143.921 110.835  43.448  1.00 48.34      DS4
ATOM  36911  O   VAL D 112     144.322 111.949  43.118  1.00 48.34      DS4
ATOM  36912  N   SER D 113     144.080 109.754  42.690  1.00 50.49      DS4
ATOM  36913  CA  SER D 113     144.762 109.820  41.408  1.00 50.49      DS4
ATOM  36914  CB  SER D 113     146.233 109.474  41.583  1.00 39.70      DS4
ATOM  36915  OG  SER D 113     146.369 108.091  41.864  1.00 39.70      DS4
ATOM  36916  C   SER D 113     144.161 108.843  40.414  1.00 50.49      DS4
ATOM  36917  O   SER D 113     143.356 107.983  40.777  1.00 50.49      DS4
ATOM  36918  N   ARG D 114     144.584 108.985  39.159  1.00 66.57      DS4
ATOM  36919  CA  ARG D 114     144.139 108.138  38.058  1.00 66.57      DS4
ATOM  36920  CB  ARG D 114     144.911 108.507  36.791  1.00 50.68      DS4
ATOM  36921  CG  ARG D 114     144.342 109.692  36.050  1.00 50.68      DS4
ATOM  36922  CD  ARG D 114     143.154 109.237  35.217  1.00 50.68      DS4
ATOM  36923  NE  ARG D 114     142.406 110.328  34.588  1.00 50.68      DS4
ATOM  36924  CZ  ARG D 114     142.956 111.374  33.978  1.00 50.68      DS4
ATOM  36925  NH1 ARG D 114     144.282 111.492  33.913  1.00 50.68      DS4
ATOM  36926  NH2 ARG D 114     142.175 112.296  33.422  1.00 50.68      DS4
ATOM  36927  C   ARG D 114     144.361 106.672  38.398  1.00 66.57      DS4
ATOM  36928  O   ARG D 114     143.441 105.857  38.322  1.00 66.57      DS4
ATOM  36929  N   ARG D 115     145.590 106.345  38.780  1.00 60.01      DS4
ATOM  36930  CA  ARG D 115     145.924 104.978  39.132  1.00 60.01      DS4
ATOM  36931  CB  ARG D 115     147.399 104.873  39.492  1.00102.73      DS4
ATOM  36932  CG  ARG D 115     148.291 104.847  38.277  1.00102.73      DS4
ATOM  36933  CD  ARG D 115     149.719 104.514  38.644  1.00102.73      DS4
ATOM  36934  NE  ARG D 115     150.396 103.869  37.527  1.00102.73      DS4
ATOM  36935  CZ  ARG D 115     151.686 103.558  37.512  1.00102.73      DS4
ATOM  36936  NH1 ARG D 115     152.453 103.839  38.559  1.00102.73      DS4
ATOM  36937  NH2 ARG D 115     152.203 102.955  36.451  1.00102.73      DS4
ATOM  36938  C   ARG D 115     145.067 104.484  40.278  1.00 60.01      DS4
ATOM  36939  O   ARG D 115     144.349 103.501  40.134  1.00 60.01      DS4
ATOM  36940  N   GLN D 116     145.136 105.168  41.412  1.00 61.35      DS4
ATOM  36941  CA  GLN D 116     144.347 104.785  42.575  1.00 61.35      DS4
ATOM  36942  CB  GLN D 116     144.451 105.865  43.647  1.00 55.54      DS4
ATOM  36943  CG  GLN D 116     143.811 105.489  44.971  1.00 55.54      DS4
ATOM  36944  CD  GLN D 116     143.497 106.698  45.817  1.00 55.54      DS4
ATOM  36945  OE1 GLN D 116     142.503 107.386  45.580  1.00 55.54      DS4
ATOM  36946  NE2 GLN D 116     144.348 106.976  46.802  1.00 55.54      DS4
ATOM  36947  C   GLN D 116     142.871 104.576  42.201  1.00 61.35      DS4
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ATOM  36948  O   GLN D 116     142.178 103.740  42.785  1.00 61.35      DS4
ATOM  36949  N   ALA D 117     142.393 105.341  41.228  1.00 44.45      DS4
ATOM  36950  CA  ALA D 117     141.012 105.219  40.794  1.00 44.45      DS4
ATOM  36951  CB  ALA D 117     140.715 106.226  39.710  1.00 77.95      DS4
ATOM  36952  C   ALA D 117     140.795 103.824  40.265  1.00 44.45      DS4
ATOM  36953  O   ALA D 117     139.774 103.187  40.538  1.00 44.45      DS4
ATOM  36954  N   ARG D 118     141.771 103.357  39.495  1.00 57.99      DS4
ATOM  36955  CA  ARG D 118     141.717 102.032  38.901  1.00 57.99      DS4
ATOM  36956  CB  ARG D 118     143.060 101.699  38.238  1.00 69.81      DS4
ATOM  36957  CG  ARG D 118     143.027 100.464  37.350  1.00 69.81      DS4
ATOM  36958  CD  ARG D 118     144.349 100.230  36.628  1.00 69.81      DS4
ATOM  36959  NE  ARG D 118     144.175  99.394  35.441  1.00 69.81      DS4
ATOM  36960  CZ  ARG D 118     143.526  99.778  34.345  1.00 69.81      DS4
ATOM  36961  NH1 ARG D 118     143.410  98.950  33.316  1.00 69.81      DS4
ATOM  36962  NH2 ARG D 118     143.001 100.995  34.275  1.00 69.81      DS4
ATOM  36963  C   ARG D 118     141.403 100.992  39.965  1.00 57.99      DS4
ATOM  36964  O   ARG D 118     140.319 100.399  39.987  1.00 57.99      DS4
ATOM  36965  N   GLN D 119     142.363 100.796  40.857  1.00 55.75      DS4
ATOM  36966  CA  GLN D 119     142.232  99.823  41.924  1.00 55.75      DS4
ATOM  36967  CB  GLN D 119     143.292 100.058  42.994  1.00 47.13      DS4
ATOM  36968  CG  GLN D 119     143.419  98.902  43.944  1.00 47.13      DS4
ATOM  36969  CD  GLN D 119     144.698  98.943  44.734  1.00 47.13      DS4
ATOM  36970  OE1 GLN D 119     144.838  99.718  45.680  1.00 47.13      DS4
ATOM  36971  NE2 GLN D 119     145.653  98.111  44.341  1.00 47.13      DS4
ATOM  36972  C   GLN D 119     140.861  99.835  42.563  1.00 55.75      DS4
ATOM  36973  O   GLN D 119     140.345  98.786  42.949  1.00 55.75      DS4
ATOM  36974  N   LEU D 120     140.265 101.013  42.680  1.00 47.51      DS4
ATOM  36975  CA  LEU D 120     138.945 101.077  43.282  1.00 47.51      DS4
ATOM  36976  CB  LEU D 120     138.473 102.529  43.438  1.00 35.74      DS4
ATOM  36977  CG  LEU D 120     139.325 103.367  44.406  1.00 35.74      DS4
ATOM  36978  CD1 LEU D 120     138.578 104.627  44.776  1.00 35.74      DS4
ATOM  36979  CD2 LEU D 120     139.633 102.567  45.666  1.00 35.74      DS4
ATOM  36980  C   LEU D 120     137.985 100.288  42.418  1.00 47.51      DS4
ATOM  36981  O   LEU D 120     137.401  99.305  42.874  1.00 47.51      DS4
ATOM  36982  N   VAL D 121     137.845 100.699  41.164  1.00 46.15      DS4
ATOM  36983  CA  VAL D 121     136.944 100.006  40.251  1.00 46.15      DS4
ATOM  36984  CB  VAL D 121     137.138 100.474  38.798  1.00 43.75      DS4
ATOM  36985  CG1 VAL D 121     136.334  99.579  37.853  1.00 43.75      DS4
ATOM  36986  CG2 VAL D 121     136.698 101.933  38.659  1.00 43.75      DS4
ATOM  36987  C   VAL D 121     137.182  98.509  40.307  1.00 46.15      DS4
ATOM  36988  O   VAL D 121     136.248  97.722  40.436  1.00 46.15      DS4
ATOM  36989  N   ARG D 122     138.446  98.127  40.217  1.00 44.21      DS4
ATOM  36990  CA  ARG D 122     138.800  96.724  40.252  1.00 44.21      DS4
ATOM  36991  CB  ARG D 122     140.302  96.557  40.047  1.00 54.15      DS4
ATOM  36992  CG  ARG D 122     140.662  95.930  38.713  1.00 54.15      DS4
ATOM  36993  CD  ARG D 122     140.482  94.422  38.738  1.00 54.15      DS4
ATOM  36994  NE  ARG D 122     139.458  93.937  37.821  1.00 54.15      DS4
ATOM  36995  CZ  ARG D 122     139.324  92.657  37.486  1.00 54.15      DS4
ATOM  36996  NH1 ARG D 122     140.151  91.750  37.992  1.00 54.15      DS4
ATOM  36997  NH2 ARG D 122     138.371  92.278  36.645  1.00 54.15      DS4
ATOM  36998  C   ARG D 122     138.374  96.061  41.550  1.00 44.21      DS4
ATOM  36999  O   ARG D 122     137.803  94.973  41.535  1.00 44.21      DS4
ATOM  37000  N   HIS D 123     138.646  96.703  42.678  1.00 29.48      DS4
ATOM  37001  CA  HIS D 123     138.255  96.107  43.941  1.00 29.48      DS4
ATOM  37002  CB  HIS D 123     139.140  96.611  45.072  1.00 39.28      DS4
ATOM  37003  CG  HIS D 123     140.570  96.199  44.942  1.00 39.28      DS4
ATOM  37004  CD2 HIS D 123     141.713  96.813  45.326  1.00 39.28      DS4
ATOM  37005  ND1 HIS D 123     140.948  94.984  44.417  1.00 39.28      DS4
ATOM  37006  CE1 HIS D 123     142.262  94.864  44.488  1.00 39.28      DS4
ATOM  37007  NE2 HIS D 123     142.750  95.961  45.037  1.00 39.28      DS4
ATOM  37008  C   HIS D 123     136.787  96.387  44.239  1.00 29.48      DS4
ATOM  37009  O   HIS D 123     136.378  96.484  45.395  1.00 29.48      DS4
ATOM  37010  N   GLY D 124     136.004  96.521  43.173  1.00 69.64      DS4
ATOM  37011  CA  GLY D 124     134.574  96.758  43.294  1.00 69.64      DS4
ATOM  37012  C   GLY D 124     134.066  97.812  44.261  1.00 69.64      DS4
ATOM  37013  O   GLY D 124     132.910  97.776  44.669  1.00 69.64      DS4
ATOM  37014  N   HIS D 125     134.908  98.757  44.637  1.00 46.52      DS4
ATOM  37015  CA  HIS D 125     134.459  99.790  45.543  1.00 46.52      DS4
ATOM  37016  CB  HIS D 125     135.658 100.491  46.179  1.00 54.47      DS4
ATOM  37017  CG  HIS D 125     136.544  99.577  46.963  1.00 54.47      DS4
ATOM  37018  CD2 HIS D 125     137.893  99.485  47.034  1.00 54.47      DS4
ATOM  37019  ND1 HIS D 125     136.048  98.624  47.827  1.00 54.47      DS4
ATOM  37020  CE1 HIS D 125     137.054  97.983  48.395  1.00 54.47      DS4
ATOM  37021  NE2 HIS D 125     138.184  98.487  47.932  1.00 54.47      DS4
ATOM  37022  C   HIS D 125     133.615 100.800  44.772  1.00 46.52      DS4
ATOM  37023  O   HIS D 125     133.058 101.725  45.357  1.00 46.52      DS4
ATOM  37024  N   ILE D 126     133.518 100.625  43.458  1.00 46.48      DS4
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ATOM  37025  CA  ILE D 126     132.743 101.548  42.642  1.00 46.48      DS4
ATOM  37026  CB  ILE D 126     133.601 102.163  41.548  1.00 84.75      DS4
ATOM  37027  CG2 ILE D 126     132.807 103.226  40.812  1.00 84.75      DS4
ATOM  37028  CG1 ILE D 126     134.883 102.736  42.162  1.00 84.75      DS4
ATOM  37029  CD1 ILE D 126     134.657 103.701  43.311  1.00 84.75      DS4
ATOM  37030  C   ILE D 126     131.573 100.849  41.992  1.00 46.48      DS4
ATOM  37031  O   ILE D 126     131.604  99.641  41.810  1.00 46.48      DS4
ATOM  37032  N   THR D 127     130.535 101.606  41.646  1.00 53.81      DS4
ATOM  37033  CA  THR D 127     129.355 101.023  41.014  1.00 53.81      DS4
ATOM  37034  CB  THR D 127     128.317 100.603  42.045  1.00 74.87      DS4
ATOM  37035  OG1 THR D 127     127.214  99.999  41.363  1.00 74.87      DS4
ATOM  37036  CG2 THR D 127     127.811 101.812  42.825  1.00 74.87      DS4
ATOM  37037  C   THR D 127     128.666 101.941  40.004  1.00 53.81      DS4
ATOM  37038  O   THR D 127     128.542 103.152  40.206  1.00 53.81      DS4
ATOM  37039  N   VAL D 128     128.192 101.335  38.923  1.00 26.65      DS4
ATOM  37040  CA  VAL D 128     127.549 102.071  37.853  1.00 26.65      DS4
ATOM  37041  CB  VAL D 128     128.128 101.666  36.461  1.00 36.41      DS4
ATOM  37042  CG1 VAL D 128     127.505 102.516  35.367  1.00 36.41      DS4
ATOM  37043  CG2 VAL D 128     129.646 101.829  36.445  1.00 36.41      DS4
ATOM  37044  C   VAL D 128     126.059 101.826  37.844  1.00 26.65      DS4
ATOM  37045  O   VAL D 128     125.609 100.713  37.578  1.00 26.65      DS4
ATOM  37046  N   ASN D 129     125.303 102.882  38.128  1.00 43.62      DS4
ATOM  37047  CA  ASN D 129     123.853 102.814  38.143  1.00 43.62      DS4
ATOM  37048  CB  ASN D 129     123.312 102.576  36.736  1.00 58.58      DS4
ATOM  37049  CG  ASN D 129     123.590 103.731  35.802  1.00 58.58      DS4
ATOM  37050  OD1 ASN D 129     123.426 104.903  36.164  1.00 58.58      DS4
ATOM  37051  ND2 ASN D 129     123.994 103.409  34.580  1.00 58.58      DS4
ATOM  37052  C   ASN D 129     123.367 101.703  39.043  1.00 43.62      DS4
ATOM  37053  O   ASN D 129     122.315 101.113  38.785  1.00 43.62      DS4
ATOM  37054  N   GLY D 130     124.133 101.416  40.091  1.00 54.14      DS4
ATOM  37055  CA  GLY D 130     123.747 100.355  40.998  1.00 54.14      DS4
ATOM  37056  C   GLY D 130     124.586  99.099  40.837  1.00 54.14      DS4
ATOM  37057  O   GLY D 130     125.172  98.634  41.814  1.00 54.14      DS4
ATOM  37058  N   ARG D 131     124.642  98.536  39.628  1.00 40.65      DS4
ATOM  37059  CA  ARG D 131     125.440  97.333  39.386  1.00 40.65      DS4
ATOM  37060  CB  ARG D 131     125.339  96.911  37.918  1.00188.76      DS4
ATOM  37061  CG  ARG D 131     124.482  95.684  37.655  1.00188.76      DS4
ATOM  37062  CD  ARG D 131     123.010  95.951  37.905  1.00188.76      DS4
ATOM  37063  NE  ARG D 131     122.185  94.813  37.505  1.00188.76      DS4
ATOM  37064  CZ  ARG D 131     120.859  94.773  37.601  1.00188.76      DS4
ATOM  37065  NH1 ARG D 131     120.193  95.813  38.087  1.00188.76      DS4
ATOM  37066  NH2 ARG D 131     120.195  93.693  37.209  1.00188.76      DS4
ATOM  37067  C   ARG D 131     126.915  97.597  39.726  1.00 40.65      DS4
ATOM  37068  O   ARG D 131     127.470  98.629  39.342  1.00 40.65      DS4
ATOM  37069  N   ARG D 132     127.550  96.682  40.454  1.00 39.51      DS4
ATOM  37070  CA  ARG D 132     128.956  96.861  40.784  1.00 39.51      DS4
ATOM  37071  CB  ARG D 132     129.404  95.917  41.900  1.00118.50      DS4
ATOM  37072  CG  ARG D 132     130.912  95.961  42.132  1.00118.50      DS4
ATOM  37073  CD  ARG D 132     131.388  95.067  43.275  1.00118.50      DS4
ATOM  37074  NE  ARG D 132     131.308  93.639  42.975  1.00118.50      DS4
ATOM  37075  CZ  ARG D 132     130.205  92.905  43.090  1.00118.50      DS4
ATOM  37076  NH1 ARG D 132     129.073  93.458  43.503  1.00118.50      DS4
ATOM  37077  NH2 ARG D 132     130.235  91.613  42.798  1.00118.50      DS4
ATOM  37078  C   ARG D 132     129.717  96.527  39.524  1.00 39.51      DS4
ATOM  37079  O   ARG D 132     129.454  95.502  38.898  1.00 39.51      DS4
ATOM  37080  N   VAL D 133     130.655  97.391  39.152  1.00 51.31      DS4
ATOM  37081  CA  VAL D 133     131.452  97.189  37.948  1.00 51.31      DS4
ATOM  37082  CB  VAL D 133     131.071  98.203  36.882  1.00 18.67      DS4
ATOM  37083  CG1 VAL D 133     131.940  97.994  35.658  1.00 18.67      DS4
ATOM  37084  CG2 VAL D 133     129.596  98.051  36.537  1.00 18.67      DS4
ATOM  37085  C   VAL D 133     132.941  97.321  38.233  1.00 51.31      DS4
ATOM  37086  O   VAL D 133     133.408  98.399  38.582  1.00 51.31      DS4
ATOM  37087  N   ASP D 134     133.689  96.235  38.063  1.00 33.66      DS4
ATOM  37088  CA  ASP D 134     135.120  96.261  38.346  1.00 33.66      DS4
ATOM  37089  CB  ASP D 134     135.525  95.027  39.134  1.00 65.41      DS4
ATOM  37090  CG  ASP D 134     135.283  93.750  38.365  1.00 65.41      DS4
ATOM  37091  OD1 ASP D 134     134.107  93.411  38.143  1.00 65.41      DS4
ATOM  37092  OD2 ASP D 134     136.265  93.085  37.977  1.00 65.41      DS4
ATOM  37093  C   ASP D 134     135.989  96.333  37.114  1.00 33.66      DS4
ATOM  37094  O   ASP D 134     137.155  95.932  37.160  1.00 33.66      DS4
ATOM  37095  N   LEU D 135     135.428  96.852  36.022  1.00 29.93      DS4
ATOM  37096  CA  LEU D 135     136.149  96.968  34.754  1.00 29.93      DS4
ATOM  37097  CB  LEU D 135     135.270  96.452  33.624  1.00 41.99      DS4
ATOM  37098  CG  LEU D 135     134.695  95.089  33.999  1.00 41.99      DS4
ATOM  37099  CD1 LEU D 135     133.765  94.628  32.916  1.00 41.99      DS4
ATOM  37100  CD2 LEU D 135     135.821  94.090  34.216  1.00 41.99      DS4
ATOM  37101  C   LEU D 135     136.567  98.394  34.476  1.00 29.93      DS4
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ATOM  37102  O   LEU D 135     135.785  99.214  34.026  1.00 29.93       DS4
ATOM  37103  N   PRO D 136     137.827  98.695  34.728  1.00 19.32       DS4
ATOM  37104  CD  PRO D 136     138.892  97.726  34.991  1.00 41.40       DS4
ATOM  37105  CA  PRO D 136     138.373 100.030  34.515  1.00 19.32       DS4
ATOM  37106  CB  PRO D 136     139.876  99.818  34.620  1.00 41.40       DS4
ATOM  37107  CG  PRO D 136     139.987  98.615  35.496  1.00 41.40       DS4
ATOM  37108  C   PRO D 136     137.992 100.566  33.155  1.00 19.32       DS4
ATOM  37109  O   PRO D 136     137.519 101.692  33.032  1.00 19.32       DS4
ATOM  37110  N   SER D 137     138.202  99.748  32.131  1.00 38.18       DS4
ATOM  37111  CA  SER D 137     137.910 100.130  30.761  1.00 38.18       DS4
ATOM  37112  CB  SER D 137     138.390  99.030  29.821  1.00 73.25       DS4
ATOM  37113  OG  SER D 137     137.764  97.799  30.139  1.00 73.25       DS4
ATOM  37114  C   SER D 137     136.436 100.419  30.503  1.00 38.18       DS4
ATOM  37115  O   SER D 137     136.105 101.015  29.483  1.00 38.18       DS4
ATOM  37116  N   TYR D 138     135.556 100.007  31.419  1.00 28.03       DS4
ATOM  37117  CA  TYR D 138     134.112 100.224  31.259  1.00 28.03       DS4
ATOM  37118  CB  TYR D 138     133.369  99.923  32.557  1.00 51.41       DS4
ATOM  37119  CG  TYR D 138     131.870 100.117  32.441  1.00 51.41       DS4
ATOM  37120  CD1 TYR D 138     131.028  99.053  32.116  1.00 51.41       DS4
ATOM  37121  CE1 TYR D 138     129.659  99.239  31.971  1.00 51.41       DS4
ATOM  37122  CD2 TYR D 138     131.299 101.375  32.620  1.00 51.41       DS4
ATOM  37123  CE2 TYR D 138     129.933 101.573  32.476  1.00 51.41       DS4
ATOM  37124  CZ  TYR D 138     129.118 100.506  32.151  1.00 51.41       DS4
ATOM  37125  OH  TYR D 138     127.768 100.717  31.990  1.00 51.41       DS4
ATOM  37126  C   TYR D 138     133.766 101.644  30.836  1.00 28.03       DS4
ATOM  37127  O   TYR D 138     134.188 102.613  31.470  1.00 28.03       DS4
ATOM  37128  N   ARG D 139     132.959 101.773  29.791  1.00 47.82       DS4
ATOM  37129  CA  ARG D 139     132.609 103.103  29.310  1.00 47.82       DS4
ATOM  37130  CB  ARG D 139     132.476 103.092  27.796  1.00 46.76       DS4
ATOM  37131  CG  ARG D 139     132.259 104.460  27.201  1.00 46.76       DS4
ATOM  37132  CD  ARG D 139     132.090 104.377  25.687  1.00 46.76       DS4
ATOM  37133  NE  ARG D 139     133.282 103.869  25.009  1.00 46.76       DS4
ATOM  37134  CZ  ARG D 139     133.456 103.897  23.692  1.00 46.76       DS4
ATOM  37135  NH1 ARG D 139     132.515 104.411  22.914  1.00 46.76       DS4
ATOM  37136  NH2 ARG D 139     134.567 103.413  23.154  1.00 46.76       DS4
ATOM  37137  C   ARG D 139     131.354 103.720  29.902  1.00 47.82       DS4
ATOM  37138  O   ARG D 139     130.240 103.356  29.533  1.00 47.82       DS4
ATOM  37139  N   VAL D 140     131.545 104.667  30.810  1.00 32.45       DS4
ATOM  37140  CA  VAL D 140     130.434 105.368  31.437  1.00 32.45       DS4
ATOM  37141  CB  VAL D 140     130.945 106.316  32.534  1.00 33.98       DS4
ATOM  37142  CG1 VAL D 140     129.813 107.128  33.090  1.00 33.98       DS4
ATOM  37143  CG2 VAL D 140     131.636 105.519  33.636  1.00 33.98       DS4
ATOM  37144  C   VAL D 140     129.737 106.203  30.366  1.00 32.45       DS4
ATOM  37145  O   VAL D 140     130.345 107.108  29.796  1.00 32.45       DS4
ATOM  37146  N   ARG D 141     128.473 105.891  30.088  1.00 31.95       DS4
ATOM  37147  CA  ARG D 141     127.675 106.603  29.088  1.00 31.95       DS4
ATOM  37148  CB  ARG D 141     126.608 105.643  28.560  1.00 94.66       DS4
ATOM  37149  CG  ARG D 141     126.026 105.991  27.216  1.00 94.66       DS4
ATOM  37150  CD  ARG D 141     125.469 104.756  26.506  1.00 94.66       DS4
ATOM  37151  NE  ARG D 141     124.372 104.108  27.229  1.00 94.66       DS4
ATOM  37152  CZ  ARG D 141     124.521 103.255  28.241  1.00 94.66       DS4
ATOM  37153  NH1 ARG D 141     125.733 102.926  28.671  1.00 94.66       DS4
ATOM  37154  NH2 ARG D 141     123.451 102.728  28.826  1.00 94.66       DS4
ATOM  37155  C   ARG D 141     127.035 107.827  29.775  1.00 31.95       DS4
ATOM  37156  O   ARG D 141     127.139 107.977  30.984  1.00 31.95       DS4
ATOM  37157  N   PRO D 142     126.400 108.738  29.019  1.00 48.35       DS4
ATOM  37158  CD  PRO D 142     126.585 109.087  27.604  1.00 59.82       DS4
ATOM  37159  CA  PRO D 142     125.809 109.873  29.735  1.00 48.35       DS4
ATOM  37160  CB  PRO D 142     125.545 110.886  28.626  1.00 59.82       DS4
ATOM  37161  CG  PRO D 142     126.602 110.599  27.665  1.00 59.82       DS4
ATOM  37162  C   PRO D 142     124.527 109.502  30.479  1.00 48.35       DS4
ATOM  37163  O   PRO D 142     123.633 108.848  29.936  1.00 48.35       DS4
ATOM  37164  N   GLY D 143     124.442 109.944  31.726  1.00 55.77       DS4
ATOM  37165  CA  GLY D 143     123.277 109.652  32.524  1.00 55.77       DS4
ATOM  37166  C   GLY D 143     123.659 108.711  33.639  1.00 55.77       DS4
ATOM  37167  O   GLY D 143     123.125 108.798  34.740  1.00 55.77       DS4
ATOM  37168  N   ASP D 144     124.597 107.813  33.367  1.00 36.69       DS4
ATOM  37169  CA  ASP D 144     125.011 106.859  34.382  1.00 36.69       DS4
ATOM  37170  CB  ASP D 144     126.221 106.057  33.911  1.00 84.64       DS4
ATOM  37171  CG  ASP D 144     125.971 105.344  32.605  1.00 84.64       DS4
ATOM  37172  OD1 ASP D 144     124.794 105.037  32.302  1.00 84.64       DS4
ATOM  37173  OD2 ASP D 144     126.959 105.080  31.890  1.00 84.64       DS4
ATOM  37174  C   ASP D 144     125.371 107.578  35.660  1.00 36.69       DS4
ATOM  37175  O   ASP D 144     125.936 108.659  35.608  1.00 36.69       DS4
ATOM  37176  N   GLU D 145     125.018 106.990  36.801  1.00 48.54       DS4
ATOM  37177  CA  GLU D 145     125.352 107.567  38.099  1.00 48.54       DS4
ATOM  37178  CB  GLU D 145     124.132 107.599  39.022  1.00198.33       DS4
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ATOM  37179  CG  GLU D 145     123.057 108.588  38.614  1.00198.33      DS4
ATOM  37180  CD  GLU D 145     121.998 108.768  39.687  1.00198.33      DS4
ATOM  37181  OE1 GLU D 145     121.370 107.762  40.081  1.00198.33      DS4
ATOM  37182  OE2 GLU D 145     121.795 109.916  40.137  1.00198.33      DS4
ATOM  37183  C   GLU D 145     126.437 106.697  38.725  1.00 48.54      DS4
ATOM  37184  O   GLU D 145     126.188 105.551  39.106  1.00 48.54      DS4
ATOM  37185  N   ILE D 146     127.644 107.233  38.827  1.00 57.96      DS4
ATOM  37186  CA  ILE D 146     128.740 106.472  39.398  1.00 57.96      DS4
ATOM  37187  CB  ILE D 146     130.079 106.885  38.780  1.00 43.89      DS4
ATOM  37188  CG2 ILE D 146     131.199 106.033  39.348  1.00 43.89      DS4
ATOM  37189  CG1 ILE D 146     130.029 106.695  37.268  1.00 43.89      DS4
ATOM  37190  CD1 ILE D 146     129.134 107.670  36.556  1.00 43.89      DS4
ATOM  37191  C   ILE D 146     128.785 106.694  40.900  1.00 57.96      DS4
ATOM  37192  O   ILE D 146     129.009 107.815  41.359  1.00 57.96      DS4
ATOM  37193  N   ALA D 147     128.584 105.622  41.664  1.00 44.55      DS4
ATOM  37194  CA  ALA D 147     128.565 105.730  43.115  1.00 44.55      DS4
ATOM  37195  CB  ALA D 147     127.148 105.523  43.609  1.00149.90      DS4
ATOM  37196  C   ALA D 147     129.500 104.799  43.870  1.00 44.55      DS4
ATOM  37197  O   ALA D 147     129.760 103.682  43.450  1.00 44.55      DS4
ATOM  37198  N   VAL D 148     129.987 105.274  45.008  1.00 42.94      DS4
ATOM  37199  CA  VAL D 148     130.872 104.489  45.850  1.00 42.94      DS4
ATOM  37200  CB  VAL D 148     131.419 105.338  47.014  1.00 25.44      DS4
ATOM  37201  CG1 VAL D 148     132.378 104.516  47.867  1.00 25.44      DS4
ATOM  37202  CG2 VAL D 148     132.114 106.579  46.461  1.00 25.44      DS4
ATOM  37203  C   VAL D 148     130.099 103.300  46.416  1.00 42.94      DS4
ATOM  37204  O   VAL D 148     128.919 103.416  46.768  1.00 42.94      DS4
ATOM  37205  N   ALA D 149     130.786 102.163  46.499  1.00 62.62      DS4
ATOM  37206  CA  ALA D 149     130.231 100.904  46.995  1.00 62.62      DS4
ATOM  37207  CB  ALA D 149     131.288  99.813  46.892  1.00 89.25      DS4
ATOM  37208  C   ALA D 149     129.696 100.955  48.419  1.00 62.62      DS4
ATOM  37209  O   ALA D 149     130.456 101.140  49.364  1.00 62.62      DS4
ATOM  37210  N   GLU D 150     128.389 100.763  48.560  1.00 47.91      DS4
ATOM  37211  CA  GLU D 150     127.726 100.774  49.864  1.00 47.91      DS4
ATOM  37212  CB  GLU D 150     126.495  99.866  49.838  1.00154.17      DS4
ATOM  37213  CG  GLU D 150     125.508 100.178  48.726  1.00154.17      DS4
ATOM  37214  CD  GLU D 150     126.111  99.997  47.345  1.00154.17      DS4
ATOM  37215  OE1 GLU D 150     126.489  98.857  46.999  1.00154.17      DS4
ATOM  37216  OE2 GLU D 150     126.214 101.000  46.607  1.00154.17      DS4
ATOM  37217  C   GLU D 150     128.663 100.309  50.968  1.00 47.91      DS4
ATOM  37218  O   GLU D 150     129.107 101.099  51.800  1.00 47.91      DS4
ATOM  37219  N   LYS D 151     128.971  99.021  50.959  1.00 37.94      DS4
ATOM  37220  CA  LYS D 151     129.846  98.443  51.961  1.00 37.94      DS4
ATOM  37221  CB  LYS D 151     130.078  96.964  51.664  1.00 91.19      DS4
ATOM  37222  CG  LYS D 151     128.820  96.224  51.280  1.00 91.19      DS4
ATOM  37223  CD  LYS D 151     128.341  96.673  49.911  1.00 91.19      DS4
ATOM  37224  CE  LYS D 151     126.979  96.096  49.577  1.00 91.19      DS4
ATOM  37225  NZ  LYS D 151     126.520  96.545  48.230  1.00 91.19      DS4
ATOM  37226  C   LYS D 151     131.183  99.167  52.009  1.00 37.94      DS4
ATOM  37227  O   LYS D 151     131.742  99.400  53.078  1.00 37.94      DS4
ATOM  37228  N   SER D 152     131.700  99.529  50.845  1.00 46.19      DS4
ATOM  37229  CA  SER D 152     132.983 100.207  50.783  1.00 46.19      DS4
ATOM  37230  CB  SER D 152     133.462 100.282  49.331  1.00 76.65      DS4
ATOM  37231  OG  SER D 152     133.575  98.994  48.749  1.00 76.65      DS4
ATOM  37232  C   SER D 152     132.911 101.609  51.370  1.00 46.19      DS4
ATOM  37233  O   SER D 152     133.913 102.137  51.836  1.00 46.19      DS4
ATOM  37234  N   ARG D 153     131.725 102.209  51.358  1.00 67.18      DS4
ATOM  37235  CA  ARG D 153     131.558 103.567  51.869  1.00 67.18      DS4
ATOM  37236  CB  ARG D 153     130.075 103.961  51.864  1.00185.02      DS4
ATOM  37237  CG  ARG D 153     129.605 104.410  50.489  1.00185.02      DS4
ATOM  37238  CD  ARG D 153     128.184 104.944  50.474  1.00185.02      DS4
ATOM  37239  NE  ARG D 153     127.185 103.882  50.538  1.00185.02      DS4
ATOM  37240  CZ  ARG D 153     125.919 104.026  50.154  1.00185.02      DS4
ATOM  37241  NH1 ARG D 153     125.496 105.190  49.676  1.00185.02      DS4
ATOM  37242  NH2 ARG D 153     125.073 103.007  50.249  1.00185.02      DS4
ATOM  37243  C   ARG D 153     132.171 103.819  53.239  1.00 67.18      DS4
ATOM  37244  O   ARG D 153     132.552 104.945  53.553  1.00 67.18      DS4
ATOM  37245  N   ASN D 154     132.284 102.769  54.044  1.00 68.43      DS4
ATOM  37246  CA  ASN D 154     132.858 102.893  55.380  1.00 68.43      DS4
ATOM  37247  CB  ASN D 154     132.403 101.732  56.269  1.00201.30      DS4
ATOM  37248  CG  ASN D 154     130.912 101.752  56.540  1.00201.30      DS4
ATOM  37249  OD1 ASN D 154     130.385 102.708  57.111  1.00201.30      DS4
ATOM  37250  ND2 ASN D 154     130.223 100.692  56.133  1.00201.30      DS4
ATOM  37251  C   ASN D 154     134.372 102.900  55.311  1.00 68.43      DS4
ATOM  37252  O   ASN D 154     135.042 103.184  56.301  1.00 68.43      DS4
ATOM  37253  N   LEU D 155     134.902 102.588  54.131  1.00 97.89      DS4
ATOM  37254  CA  LEU D 155     136.344 102.530  53.919  1.00 97.89      DS4
ATOM  37255  CB  LEU D 155     136.658 102.132  52.478  1.00 75.20      DS4
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ATOM  37256  CG  LEU D 155     136.423 100.647  52.206  1.00 75.20      DS4
ATOM  37257  CD1 LEU D 155     136.525 100.370  50.730  1.00 75.20      DS4
ATOM  37258  CD2 LEU D 155     137.444  99.831  52.974  1.00 75.20      DS4
ATOM  37259  C   LEU D 155     137.084 103.803  54.270  1.00 97.89      DS4
ATOM  37260  O   LEU D 155     136.831 104.873  53.711  1.00 97.89      DS4
ATOM  37261  N   GLU D 156     138.013 103.653  55.206  1.00 66.56      DS4
ATOM  37262  CA  GLU D 156     138.829 104.748  55.692  1.00 66.56      DS4
ATOM  37263  CB  GLU D 156     140.086 104.199  56.361  1.00149.69      DS4
ATOM  37264  CG  GLU D 156     140.896 105.245  57.091  1.00149.69      DS4
ATOM  37265  CD  GLU D 156     142.263 104.737  57.482  1.00149.69      DS4
ATOM  37266  OE1 GLU D 156     143.059 104.435  56.569  1.00149.69      DS4
ATOM  37267  OE2 GLU D 156     142.544 104.637  58.695  1.00149.69      DS4
ATOM  37268  C   GLU D 156     139.227 105.669  54.557  1.00 66.56      DS4
ATOM  37269  O   GLU D 156     138.842 106.836  54.529  1.00 66.56      DS4
ATOM  37270  N   LEU D 157     139.990 105.122  53.615  1.00 68.99      DS4
ATOM  37271  CA  LEU D 157     140.472 105.883  52.471  1.00 68.99      DS4
ATOM  37272  CB  LEU D 157     141.224 104.965  51.501  1.00131.60      DS4
ATOM  37273  CG  LEU D 157     142.076 105.639  50.417  1.00131.60      DS4
ATOM  37274  CD1 LEU D 157     142.980 104.602  49.765  1.00131.60      DS4
ATOM  37275  CD2 LEU D 157     141.189 106.308  49.382  1.00131.60      DS4
ATOM  37276  C   LEU D 157     139.356 106.609  51.738  1.00 68.99      DS4
ATOM  37277  O   LEU D 157     139.441 107.813  51.522  1.00 68.99      DS4
ATOM  37278  N   ILE D 158     138.309 105.890  51.354  1.00 46.54      DS4
ATOM  37279  CA  ILE D 158     137.228 106.541  50.643  1.00 46.54      DS4
ATOM  37280  CB  ILE D 158     136.127 105.550  50.237  1.00 57.77      DS4
ATOM  37281  CG2 ILE D 158     134.832 106.280  49.903  1.00 57.77      DS4
ATOM  37282  CG1 ILE D 158     136.600 104.772  49.012  1.00 57.77      DS4
ATOM  37283  CD1 ILE D 158     135.550 103.889  48.412  1.00 57.77      DS4
ATOM  37284  C   ILE D 158     136.648 107.665  51.467  1.00 46.54      DS4
ATOM  37285  O   ILE D 158     136.124 108.630  50.912  1.00 46.54      DS4
ATOM  37286  N   ARG D 159     136.742 107.560  52.790  1.00 54.71      DS4
ATOM  37287  CA  ARG D 159     136.238 108.630  53.650  1.00 54.71      DS4
ATOM  37288  CB  ARG D 159     136.094 108.152  55.096  1.00201.30      DS4
ATOM  37289  CG  ARG D 159     134.807 107.393  55.358  1.00201.30      DS4
ATOM  37290  CD  ARG D 159     134.510 107.313  56.845  1.00201.30      DS4
ATOM  37291  NE  ARG D 159     133.132 106.901  57.099  1.00201.30      DS4
ATOM  37292  CZ  ARG D 159     132.569 106.870  58.303  1.00201.30      DS4
ATOM  37293  NH1 ARG D 159     133.267 107.225  59.374  1.00201.30      DS4
ATOM  37294  NH2 ARG D 159     131.304 106.489  58.437  1.00201.30      DS4
ATOM  37295  C   ARG D 159     137.209 109.803  53.581  1.00 54.71      DS4
ATOM  37296  O   ARG D 159     136.849 110.892  53.127  1.00 54.71      DS4
ATOM  37297  N   GLN D 160     138.444 109.562  54.019  1.00 56.56      DS4
ATOM  37298  CA  GLN D 160     139.494 110.577  54.001  1.00 56.56      DS4
ATOM  37299  CB  GLN D 160     140.871 109.931  54.190  1.00158.19      DS4
ATOM  37300  CG  GLN D 160     141.001 109.035  55.416  1.00158.19      DS4
ATOM  37301  CD  GLN D 160     142.368 108.376  55.511  1.00158.19      DS4
ATOM  37302  OE1 GLN D 160     143.387 109.052  55.643  1.00158.19      DS4
ATOM  37303  NE2 GLN D 160     142.394 107.051  55.440  1.00158.19      DS4
ATOM  37304  C   GLN D 160     139.453 111.260  52.649  1.00 56.56      DS4
ATOM  37305  O   GLN D 160     139.694 112.459  52.530  1.00 56.56      DS4
ATOM  37306  N   ASN D 161     139.132 110.468  51.635  1.00 70.06      DS4
ATOM  37307  CA  ASN D 161     139.042 110.933  50.260  1.00 70.06      DS4
ATOM  37308  CB  ASN D 161     139.010 109.736  49.315  1.00 53.28      DS4
ATOM  37309  CG  ASN D 161     140.190 109.701  48.393  1.00 53.28      DS4
ATOM  37310  OD1 ASN D 161     141.330 109.903  48.819  1.00 53.28      DS4
ATOM  37311  ND2 ASN D 161     139.935 109.432  47.121  1.00 53.28      DS4
ATOM  37312  C   ASN D 161     137.811 111.784  50.008  1.00 70.06      DS4
ATOM  37313  O   ASN D 161     137.894 113.005  49.895  1.00 70.06      DS4
ATOM  37314  N   LEU D 162     136.665 111.124  49.918  1.00 67.36      DS4
ATOM  37315  CA  LEU D 162     135.427 111.821  49.653  1.00 67.36      DS4
ATOM  37316  CB  LEU D 162     134.263 110.838  49.651  1.00 70.65      DS4
ATOM  37317  CG  LEU D 162     133.268 111.163  48.535  1.00 70.65      DS4
ATOM  37318  CD1 LEU D 162     132.560 109.905  48.081  1.00 70.65      DS4
ATOM  37319  CD2 LEU D 162     132.279 112.207  49.013  1.00 70.65      DS4
ATOM  37320  C   LEU D 162     135.202 112.931  50.663  1.00 67.36      DS4
ATOM  37321  O   LEU D 162     134.341 113.787  50.464  1.00 67.36      DS4
ATOM  37322  N   GLU D 163     135.986 112.920  51.740  1.00118.32      DS4
ATOM  37323  CA  GLU D 163     135.890 113.954  52.768  1.00118.32      DS4
ATOM  37324  CB  GLU D 163     136.714 113.581  54.001  1.00127.52      DS4
ATOM  37325  CG  GLU D 163     136.969 114.759  54.940  1.00127.52      DS4
ATOM  37326  CD  GLU D 163     135.686 115.390  55.464  1.00127.52      DS4
ATOM  37327  OE1 GLU D 163     135.749 116.494  56.051  1.00127.52      DS4
ATOM  37328  OE2 GLU D 163     134.611 114.776  55.296  1.00127.52      DS4
ATOM  37329  C   GLU D 163     136.420 115.267  52.206  1.00118.32      DS4
ATOM  37330  O   GLU D 163     135.680 116.242  52.044  1.00118.32      DS4
ATOM  37331  N   ALA D 164     137.713 115.288  51.916  1.00 55.79      DS4
ATOM  37332  CA  ALA D 164     138.329 116.478  51.363  1.00 55.79      DS4
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ATOM  37333  CB  ALA D 164     139.793 116.198  51.038  1.00 64.11      DS4
ATOM  37334  C   ALA D 164     137.575 116.931  50.106  1.00 55.79      DS4
ATOM  37335  O   ALA D 164     137.785 118.034  49.598  1.00 55.79      DS4
ATOM  37336  N   MET D 165     136.690 116.079  49.605  1.00 50.97      DS4
ATOM  37337  CA  MET D 165     135.943 116.429  48.415  1.00 50.97      DS4
ATOM  37338  CB  MET D 165     135.181 115.225  47.876  1.00110.58      DS4
ATOM  37339  CG  MET D 165     135.957 114.490  46.810  1.00110.58      DS4
ATOM  37340  SD  MET D 165     136.729 115.661  45.661  1.00110.58      DS4
ATOM  37341  CE  MET D 165     135.295 116.326  44.826  1.00110.58      DS4
ATOM  37342  C   MET D 165     134.992 117.566  48.667  1.00 50.97      DS4
ATOM  37343  O   MET D 165     134.527 118.201  47.722  1.00 50.97      DS4
ATOM  37344  N   LYS D 166     134.698 117.816  49.941  1.00 81.75      DS4
ATOM  37345  CA  LYS D 166     133.801 118.903  50.323  1.00 81.75      DS4
ATOM  37346  CB  LYS D 166     133.615 118.925  51.840  1.00114.98      DS4
ATOM  37347  CG  LYS D 166     133.014 117.665  52.431  1.00114.98      DS4
ATOM  37348  CD  LYS D 166     133.034 117.729  53.955  1.00114.98      DS4
ATOM  37349  CE  LYS D 166     132.409 116.493  54.585  1.00114.98      DS4
ATOM  37350  NZ  LYS D 166     132.560 116.502  56.067  1.00114.98      DS4
ATOM  37351  C   LYS D 166     134.453 120.207  49.876  1.00 81.75      DS4
ATOM  37352  O   LYS D 166     135.589 120.490  50.247  1.00 81.75      DS4
ATOM  37353  N   GLY D 167     133.747 121.003  49.085  1.00121.35      DS4
ATOM  37354  CA  GLY D 167     134.333 122.245  48.620  1.00121.35      DS4
ATOM  37355  C   GLY D 167     134.786 122.116  47.179  1.00121.35      DS4
ATOM  37356  O   GLY D 167     134.223 122.776  46.304  1.00121.35      DS4
ATOM  37357  N   ARG D 168     135.794 121.276  46.928  1.00 61.07      DS4
ATOM  37358  CA  ARG D 168     136.301 121.057  45.572  1.00 61.07      DS4
ATOM  37359  CB  ARG D 168     137.072 119.736  45.491  1.00168.26      DS4
ATOM  37360  CG  ARG D 168     138.427 119.710  46.181  1.00168.26      DS4
ATOM  37361  CD  ARG D 168     139.149 118.405  45.845  1.00168.26      DS4
ATOM  37362  NE  ARG D 168     140.526 118.362  46.335  1.00168.26      DS4
ATOM  37363  CZ  ARG D 168     141.369 117.356  46.109  1.00168.26      DS4
ATOM  37364  NH1 ARG D 168     140.979 116.306  45.398  1.00168.26      DS4
ATOM  37365  NH2 ARG D 168     142.604 117.398  46.595  1.00168.26      DS4
ATOM  37366  C   ARG D 168     135.129 121.005  44.589  1.00 61.07      DS4
ATOM  37367  O   ARG D 168     134.208 120.202  44.761  1.00 61.07      DS4
ATOM  37368  N   LYS D 169     135.157 121.861  43.570  1.00 80.53      DS4
ATOM  37369  CA  LYS D 169     134.093 121.896  42.569  1.00 80.53      DS4
ATOM  37370  CB  LYS D 169     134.070 123.267  41.895  1.00120.54      DS4
ATOM  37371  CG  LYS D 169     132.844 123.531  41.039  1.00120.54      DS4
ATOM  37372  CD  LYS D 169     132.941 124.892  40.358  1.00120.54      DS4
ATOM  37373  CE  LYS D 169     133.088 126.025  41.373  1.00120.54      DS4
ATOM  37374  NZ  LYS D 169     133.227 127.357  40.717  1.00120.54      DS4
ATOM  37375  C   LYS D 169     134.377 120.802  41.539  1.00 80.53      DS4
ATOM  37376  O   LYS D 169     135.479 120.254  41.521  1.00 80.53      DS4
ATOM  37377  N   VAL D 170     133.405 120.474  40.685  1.00 65.83      DS4
ATOM  37378  CA  VAL D 170     133.626 119.430  39.676  1.00 65.83      DS4
ATOM  37379  CB  VAL D 170     132.668 118.231  39.884  1.00 41.93      DS4
ATOM  37380  CG1 VAL D 170     131.547 118.259  38.846  1.00 41.93      DS4
ATOM  37381  CG2 VAL D 170     133.448 116.930  39.804  1.00 41.93      DS4
ATOM  37382  C   VAL D 170     133.492 119.915  38.228  1.00 65.83      DS4
ATOM  37383  O   VAL D 170     132.931 120.980  37.965  1.00 65.83      DS4
ATOM  37384  N   GLY D 171     134.009 119.117  37.297  1.00 35.46      DS4
ATOM  37385  CA  GLY D 171     133.948 119.464  35.887  1.00 35.46      DS4
ATOM  37386  C   GLY D 171     132.540 119.741  35.404  1.00 35.46      DS4
ATOM  37387  O   GLY D 171     131.581 119.152  35.905  1.00 35.46      DS4
ATOM  37388  N   PRO D 172     132.383 120.637  34.422  1.00 28.85      DS4
ATOM  37389  CD  PRO D 172     133.448 121.415  33.773  1.00 78.93      DS4
ATOM  37390  CA  PRO D 172     131.076 120.994  33.872  1.00 28.85      DS4
ATOM  37391  CB  PRO D 172     131.400 122.143  32.918  1.00 78.93      DS4
ATOM  37392  CG  PRO D 172     132.784 121.833  32.485  1.00 78.93      DS4
ATOM  37393  C   PRO D 172     130.323 119.864  33.188  1.00 28.85      DS4
ATOM  37394  O   PRO D 172     129.156 120.032  32.811  1.00 28.85      DS4
ATOM  37395  N   TRP D 173     130.973 118.715  33.025  1.00 53.09      DS4
ATOM  37396  CA  TRP D 173     130.309 117.578  32.388  1.00 53.09      DS4
ATOM  37397  CB  TRP D 173     131.227 116.929  31.331  1.00 29.39      DS4
ATOM  37398  CG  TRP D 173     132.423 116.189  31.840  1.00 29.39      DS4
ATOM  37399  CD2 TRP D 173     133.720 116.726  32.076  1.00 29.39      DS4
ATOM  37400  CE2 TRP D 173     134.534 115.667  32.525  1.00 29.39      DS4
ATOM  37401  CE3 TRP D 173     134.276 118.000  31.951  1.00 29.39      DS4
ATOM  37402  CD1 TRP D 173     132.493 114.868  32.145  1.00 29.39      DS4
ATOM  37403  NE1 TRP D 173     133.760 114.541  32.558  1.00 29.39      DS4
ATOM  37404  CZ2 TRP D 173     135.879 115.842  32.849  1.00 29.39      DS4
ATOM  37405  CZ3 TRP D 173     135.612 118.180  32.271  1.00 29.39      DS4
ATOM  37406  CH2 TRP D 173     136.401 117.104  32.716  1.00 29.39      DS4
ATOM  37407  C   TRP D 173     129.896 116.570  33.448  1.00 53.09      DS4
ATOM  37408  O   TRP D 173     129.260 115.553  33.163  1.00 53.09      DS4
ATOM  37409  N   LEU D 174     130.238 116.898  34.685  1.00 71.29      DS4
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ATOM  37410  CA  LEU D 174     129.940 116.052  35.818  1.00 71.29      DS4
ATOM  37411  CB  LEU D 174     131.244 115.714  36.515  1.00 37.23      DS4
ATOM  37412  CG  LEU D 174     132.247 115.020  35.606  1.00 37.23      DS4
ATOM  37413  CD1 LEU D 174     133.610 114.970  36.269  1.00 37.23      DS4
ATOM  37414  CD2 LEU D 174     131.746 113.626  35.310  1.00 37.23      DS4
ATOM  37415  C   LEU D 174     129.005 116.745  36.797  1.00 71.29      DS4
ATOM  37416  O   LEU D 174     128.613 117.893  36.592  1.00 71.29      DS4
ATOM  37417  N   SER D 175     128.650 116.032  37.860  1.00 59.40      DS4
ATOM  37418  CA  SER D 175     127.788 116.562  38.908  1.00 59.40      DS4
ATOM  37419  CB  SER D 175     126.332 116.579  38.454  1.00 93.95      DS4
ATOM  37420  OG  SER D 175     125.889 115.274  38.135  1.00 93.95      DS4
ATOM  37421  C   SER D 175     127.942 115.658  40.115  1.00 59.40      DS4
ATOM  37422  O   SER D 175     127.297 114.619  40.211  1.00 59.40      DS4
ATOM  37423  N   LEU D 176     128.815 116.046  41.032  1.00 89.47      DS4
ATOM  37424  CA  LEU D 176     129.048 115.251  42.224  1.00 89.47      DS4
ATOM  37425  CB  LEU D 176     130.459 115.497  42.745  1.00 52.20      DS4
ATOM  37426  CG  LEU D 176     130.880 114.808  44.045  1.00 52.20      DS4
ATOM  37427  CD1 LEU D 176     130.685 113.300  43.948  1.00 52.20      DS4
ATOM  37428  CD2 LEU D 176     132.336 115.140  44.326  1.00 52.20      DS4
ATOM  37429  C   LEU D 176     128.038 115.556  43.319  1.00 89.47      DS4
ATOM  37430  O   LEU D 176     127.350 116.577  43.282  1.00 89.47      DS4
ATOM  37431  N   ASP D 177     127.968 114.653  44.292  1.00 61.29      DS4
ATOM  37432  CA  ASP D 177     127.065 114.753  45.438  1.00 61.29      DS4
ATOM  37433  CB  ASP D 177     125.803 113.931  45.153  1.00112.76      DS4
ATOM  37434  CG  ASP D 177     124.876 113.843  46.342  1.00112.76      DS4
ATOM  37435  OD1 ASP D 177     125.215 113.138  47.313  1.00112.76      DS4
ATOM  37436  OD2 ASP D 177     123.803 114.478  46.307  1.00112.76      DS4
ATOM  37437  C   ASP D 177     127.840 114.168  46.614  1.00 61.29      DS4
ATOM  37438  O   ASP D 177     127.576 113.044  47.033  1.00 61.29      DS4
ATOM  37439  N   VAL D 178     128.798 114.934  47.137  1.00 44.50      DS4
ATOM  37440  CA  VAL D 178     129.657 114.463  48.227  1.00 44.50      DS4
ATOM  37441  CB  VAL D 178     130.452 115.605  48.868  1.00 51.37      DS4
ATOM  37442  CG1 VAL D 178     131.354 115.054  49.959  1.00 51.37      DS4
ATOM  37443  CG2 VAL D 178     131.287 116.304  47.819  1.00 51.37      DS4
ATOM  37444  C   VAL D 178     128.909 113.742  49.325  1.00 44.50      DS4
ATOM  37445  O   VAL D 178     129.355 112.700  49.817  1.00 44.50      DS4
ATOM  37446  N   GLU D 179     127.776 114.311  49.715  1.00 62.32      DS4
ATOM  37447  CA  GLU D 179     126.946 113.724  50.748  1.00 62.32      DS4
ATOM  37448  CB  GLU D 179     125.629 114.504  50.871  1.00201.30      DS4
ATOM  37449  CG  GLU D 179     125.088 115.085  49.560  1.00201.30      DS4
ATOM  37450  CD  GLU D 179     125.742 116.408  49.164  1.00201.30      DS4
ATOM  37451  OE1 GLU D 179     126.959 116.428  48.879  1.00201.30      DS4
ATOM  37452  OE2 GLU D 179     125.031 117.435  49.136  1.00201.30      DS4
ATOM  37453  C   GLU D 179     126.679 112.259  50.418  1.00 62.32      DS4
ATOM  37454  O   GLU D 179     127.350 111.373  50.944  1.00 62.32      DS4
ATOM  37455  N   GLY D 180     125.719 112.008  49.534  1.00 75.37      DS4
ATOM  37456  CA  GLY D 180     125.392 110.641  49.166  1.00 75.37      DS4
ATOM  37457  C   GLY D 180     126.522 109.902  48.475  1.00 75.37      DS4
ATOM  37458  O   GLY D 180     126.393 108.720  48.149  1.00 75.37      DS4
ATOM  37459  N   MET D 181     127.639 110.591  48.265  1.00 73.00      DS4
ATOM  37460  CA  MET D 181     128.785 109.995  47.593  1.00 73.00      DS4
ATOM  37461  CB  MET D 181     129.340 108.830  48.409  1.00 75.85      DS4
ATOM  37462  CG  MET D 181     129.782 109.219  49.805  1.00 75.85      DS4
ATOM  37463  SD  MET D 181     130.500 107.838  50.717  1.00 75.85      DS4
ATOM  37464  CE  MET D 181     132.188 108.406  50.989  1.00 75.85      DS4
ATOM  37465  C   MET D 181     128.324 109.496  46.234  1.00 73.00      DS4
ATOM  37466  O   MET D 181     128.208 108.296  46.012  1.00 73.00      DS4
ATOM  37467  N   LYS D 182     128.051 110.429  45.332  1.00 89.52      DS4
ATOM  37468  CA  LYS D 182     127.594 110.085  43.999  1.00 89.52      DS4
ATOM  37469  CB  LYS D 182     126.094 109.869  43.990  1.00 52.73      DS4
ATOM  37470  CG  LYS D 182     125.660 108.592  44.609  1.00 52.73      DS4
ATOM  37471  CD  LYS D 182     124.164 108.410  44.434  1.00 52.73      DS4
ATOM  37472  CE  LYS D 182     123.397 109.481  45.185  1.00 52.73      DS4
ATOM  37473  NZ  LYS D 182     123.740 109.451  46.641  1.00 52.73      DS4
ATOM  37474  C   LYS D 182     127.905 111.161  42.991  1.00 89.52      DS4
ATOM  37475  O   LYS D 182     128.008 112.338  43.325  1.00 89.52      DS4
ATOM  37476  N   GLY D 183     128.036 110.740  41.741  1.00 51.33      DS4
ATOM  37477  CA  GLY D 183     128.308 111.666  40.667  1.00 51.33      DS4
ATOM  37478  C   GLY D 183     127.402 111.246  39.540  1.00 51.33      DS4
ATOM  37479  O   GLY D 183     126.730 110.217  39.633  1.00 51.33      DS4
ATOM  37480  N   LYS D 184     127.375 112.030  38.474  1.00 60.88      DS4
ATOM  37481  CA  LYS D 184     126.532 111.688  37.348  1.00 60.88      DS4
ATOM  37482  CB  LYS D 184     125.137 112.268  37.553  1.00 56.00      DS4
ATOM  37483  CG  LYS D 184     124.035 111.524  36.832  1.00 56.00      DS4
ATOM  37484  CD  LYS D 184     122.688 111.816  37.486  1.00 56.00      DS4
ATOM  37485  CE  LYS D 184     121.530 111.100  36.794  1.00 56.00      DS4
ATOM  37486  NZ  LYS D 184     121.183 111.688  35.460  1.00 56.00      DS4
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ATOM  37487  C   LYS D 184     127.135 112.187  36.046  1.00 60.88      DS4
ATOM  37488  O   LYS D 184     127.311 113.388  35.841  1.00 60.88      DS4
ATOM  37489  N   PHE D 185     127.475 111.241  35.180  1.00 59.00      DS4
ATOM  37490  CA  PHE D 185     128.042 111.547  33.880  1.00 59.00      DS4
ATOM  37491  CB  PHE D 185     128.484 110.257  33.186  1.00 38.96      DS4
ATOM  37492  CG  PHE D 185     129.540 110.470  32.164  1.00 38.96      DS4
ATOM  37493  CD1 PHE D 185     130.843 110.746  32.555  1.00 38.96      DS4
ATOM  37494  CD2 PHE D 185     129.217 110.516  30.821  1.00 38.96      DS4
ATOM  37495  CE1 PHE D 185     131.814 111.082  31.622  1.00 38.96      DS4
ATOM  37496  CE2 PHE D 185     130.176 110.851  29.881  1.00 38.96      DS4
ATOM  37497  CZ  PHE D 185     131.481 111.139  30.283  1.00 38.96      DS4
ATOM  37498  C   PHE D 185     126.926 112.222  33.084  1.00 59.00      DS4
ATOM  37499  O   PHE D 185     126.096 111.560  32.464  1.00 59.00      DS4
ATOM  37500  N   LEU D 186     126.916 113.547  33.115  1.00 36.06      DS4
ATOM  37501  CA  LEU D 186     125.890 114.335  32.438  1.00 36.06      DS4
ATOM  37502  CB  LEU D 186     125.829 115.730  33.071  1.00 42.69      DS4
ATOM  37503  CG  LEU D 186     125.647 115.797  34.588  1.00 42.69      DS4
ATOM  37504  CD1 LEU D 186     126.482 116.916  35.158  1.00 42.69      DS4
ATOM  37505  CD2 LEU D 186     124.178 115.986  34.909  1.00 42.69      DS4
ATOM  37506  C   LEU D 186     126.094 114.487  30.935  1.00 36.06      DS4
ATOM  37507  O   LEU D 186     125.146 114.368  30.150  1.00 36.06      DS4
ATOM  37508  N   ARG D 187     127.336 114.769  30.552  1.00 54.30      DS4
ATOM  37509  CA  ARG D 187     127.682 114.971  29.157  1.00 54.30      DS4
ATOM  37510  CB  ARG D 187     127.429 116.435  28.784  1.00159.74      DS4
ATOM  37511  CG  ARG D 187     127.785 116.813  27.355  1.00159.74      DS4
ATOM  37512  CD  ARG D 187     126.915 116.080  26.346  1.00159.74      DS4
ATOM  37513  NE  ARG D 187     127.241 114.660  26.252  1.00159.74      DS4
ATOM  37514  CZ  ARG D 187     126.562 113.787  25.516  1.00159.74      DS4
ATOM  37515  NH1 ARG D 187     125.512 114.185  24.809  1.00159.74      DS4
ATOM  37516  NH2 ARG D 187     126.935 112.517  25.482  1.00159.74      DS4
ATOM  37517  C   ARG D 187     129.132 114.608  28.825  1.00 54.30      DS4
ATOM  37518  O   ARG D 187     130.024 114.615  29.688  1.00 54.30      DS4
ATOM  37519  N   LEU D 188     129.354 114.282  27.557  1.00 49.10      DS4
ATOM  37520  CA  LEU D 188     130.683 113.955  27.080  1.00 49.10      DS4
ATOM  37521  CB  LEU D 188     130.603 113.361  25.687  1.00 32.83      DS4
ATOM  37522  CG  LEU D 188     130.331 111.868  25.697  1.00 32.83      DS4
ATOM  37523  CD1 LEU D 188     129.811 111.413  24.347  1.00 32.83      DS4
ATOM  37524  CD2 LEU D 188     131.624 111.147  26.083  1.00 32.83      DS4
ATOM  37525  C   LEU D 188     131.485 115.231  27.022  1.00 49.10      DS4
ATOM  37526  O   LEU D 188     131.240 116.078  26.165  1.00 49.10      DS4
ATOM  37527  N   PRO D 189     132.442 115.400  27.942  1.00 28.00      DS4
ATOM  37528  CD  PRO D 189     133.069 114.391  28.795  1.00  4.59      DS4
ATOM  37529  CA  PRO D 189     133.257 116.608  27.939  1.00 28.00      DS4
ATOM  37530  CB  PRO D 189     134.418 116.242  28.861  1.00  4.59      DS4
ATOM  37531  CG  PRO D 189     134.533 114.794  28.690  1.00  4.59      DS4
ATOM  37532  C   PRO D 189     133.724 116.916  26.529  1.00 28.00      DS4
ATOM  37533  O   PRO D 189     134.097 116.013  25.778  1.00 28.00      DS4
ATOM  37534  N   ASP D 190     133.674 118.192  26.169  1.00 50.39      DS4
ATOM  37535  CA  ASP D 190     134.104 118.621  24.853  1.00 50.39      DS4
ATOM  37536  CB  ASP D 190     133.257 119.806  24.382  1.00199.42      DS4
ATOM  37537  CG  ASP D 190     133.489 120.148  22.924  1.00199.42      DS4
ATOM  37538  OD1 ASP D 190     134.614 120.564  22.577  1.00199.42      DS4
ATOM  37539  OD2 ASP D 190     132.545 119.997  22.121  1.00199.42      DS4
ATOM  37540  C   ASP D 190     135.556 119.033  25.023  1.00 50.39      DS4
ATOM  37541  O   ASP D 190     135.996 119.317  26.136  1.00 50.39      DS4
ATOM  37542  N   ARG D 191     136.301 119.054  23.926  1.00 61.08      DS4
ATOM  37543  CA  ARG D 191     137.706 119.423  23.978  1.00 61.08      DS4
ATOM  37544  CB  ARG D 191     138.251 119.647  22.577  1.00 71.19      DS4
ATOM  37545  CG  ARG D 191     139.584 120.350  22.563  1.00 71.19      DS4
ATOM  37546  CD  ARG D 191     140.590 119.697  23.486  1.00 71.19      DS4
ATOM  37547  NE  ARG D 191     141.897 120.316  23.313  1.00 71.19      DS4
ATOM  37548  CZ  ARG D 191     142.952 120.084  24.084  1.00 71.19      DS4
ATOM  37549  NH1 ARG D 191     142.869 119.239  25.106  1.00 71.19      DS4
ATOM  37550  NH2 ARG D 191     144.097 120.701  23.824  1.00 71.19      DS4
ATOM  37551  C   ARG D 191     137.933 120.667  24.803  1.00 61.08      DS4
ATOM  37552  O   ARG D 191     138.861 120.723  25.609  1.00 61.08      DS4
ATOM  37553  N   GLU D 192     137.088 121.666  24.594  1.00 66.84      DS4
ATOM  37554  CA  GLU D 192     137.206 122.909  25.332  1.00 66.84      DS4
ATOM  37555  CB  GLU D 192     136.128 123.906  24.888  1.00158.41      DS4
ATOM  37556  CG  GLU D 192     136.298 124.461  23.472  1.00158.41      DS4
ATOM  37557  CD  GLU D 192     135.877 123.485  22.384  1.00158.41      DS4
ATOM  37558  OE1 GLU D 192     136.481 122.397  22.289  1.00158.41      DS4
ATOM  37559  OE2 GLU D 192     134.941 123.810  21.621  1.00158.41      DS4
ATOM  37560  C   GLU D 192     137.075 122.630  26.829  1.00 66.84      DS4
ATOM  37561  O   GLU D 192     137.748 123.273  27.645  1.00 66.84      DS4
ATOM  37562  N   ASP D 193     136.223 121.661  27.176  1.00 49.89      DS4
ATOM  37563  CA  ASP D 193     135.972 121.280  28.571  1.00 49.89      DS4
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ATOM  37564  CB  ASP D 193     134.867 120.216  28.649  1.00 75.40      DS4
ATOM  37565  CG  ASP D 193     133.477 120.791  28.430  1.00 75.40      DS4
ATOM  37566  OD1 ASP D 193     133.041 121.632  29.246  1.00 75.40      DS4
ATOM  37567  OD2 ASP D 193     132.817 120.401  27.445  1.00 75.40      DS4
ATOM  37568  C   ASP D 193     137.209 120.761  29.296  1.00 49.89      DS4
ATOM  37569  O   ASP D 193     137.313 120.877  30.516  1.00 49.89      DS4
ATOM  37570  N   LEU D 194     138.142 120.191  28.543  1.00 59.79      DS4
ATOM  37571  CA  LEU D 194     139.365 119.649  29.118  1.00 59.79      DS4
ATOM  37572  CB  LEU D 194     139.736 118.339  28.422  1.00 42.04      DS4
ATOM  37573  CG  LEU D 194     138.889 117.122  28.774  1.00 42.04      DS4
ATOM  37574  CD1 LEU D 194     139.047 116.832  30.252  1.00 42.04      DS4
ATOM  37575  CD2 LEU D 194     137.435 117.378  28.433  1.00 42.04      DS4
ATOM  37576  C   LEU D 194     140.535 120.612  29.019  1.00 59.79      DS4
ATOM  37577  O   LEU D 194     140.485 121.594  28.281  1.00 59.79      DS4
ATOM  37578  N   ALA D 195     141.596 120.315  29.761  1.00 54.52      DS4
ATOM  37579  CA  ALA D 195     142.782 121.155  29.745  1.00 54.52      DS4
ATOM  37580  CB  ALA D 195     142.784 122.034  30.950  1.00  2.59      DS4
ATOM  37581  C   ALA D 195     144.070 120.347  29.705  1.00 54.52      DS4
ATOM  37582  O   ALA D 195     144.953 120.546  30.536  1.00 54.52      DS4
ATOM  37583  N   LEU D 196     144.189 119.444  28.741  1.00 47.97      DS4
ATOM  37584  CA  LEU D 196     145.385 118.627  28.644  1.00 47.97      DS4
ATOM  37585  CB  LEU D 196     145.043 117.283  28.037  1.00 61.54      DS4
ATOM  37586  CG  LEU D 196     143.946 116.561  28.798  1.00 61.54      DS4
ATOM  37587  CD1 LEU D 196     143.499 115.329  28.031  1.00 61.54      DS4
ATOM  37588  CD2 LEU D 196     144.474 116.197  30.182  1.00 61.54      DS4
ATOM  37589  C   LEU D 196     146.435 119.292  27.788  1.00 47.97      DS4
ATOM  37590  O   LEU D 196     146.126 119.893  26.763  1.00 47.97      DS4
ATOM  37591  N   PRO D 197     147.698 119.202  28.199  1.00 69.73      DS4
ATOM  37592  CD  PRO D 197     148.204 118.515  29.389  1.00 27.29      DS4
ATOM  37593  CA  PRO D 197     148.792 119.800  27.436  1.00 69.73      DS4
ATOM  37594  CB  PRO D 197     149.996 119.586  28.336  1.00 27.29      DS4
ATOM  37595  CG  PRO D 197     149.657 118.317  29.026  1.00 27.29      DS4
ATOM  37596  C   PRO D 197     148.924 119.043  26.122  1.00 69.73      DS4
ATOM  37597  O   PRO D 197     149.844 119.268  25.336  1.00 69.73      DS4
ATOM  37598  N   VAL D 198     147.995 118.122  25.905  1.00 37.79      DS4
ATOM  37599  CA  VAL D 198     147.981 117.325  24.695  1.00 37.79      DS4
ATOM  37600  CB  VAL D 198     146.954 116.176  24.796  1.00 52.93      DS4
ATOM  37601  CG1 VAL D 198     146.669 115.576  23.422  1.00 52.93      DS4
ATOM  37602  CG2 VAL D 198     147.488 115.112  25.734  1.00 52.93      DS4
ATOM  37603  C   VAL D 198     147.613 118.198  23.522  1.00 37.79      DS4
ATOM  37604  O   VAL D 198     146.841 119.142  23.652  1.00 37.79      DS4
ATOM  37605  N   GLN D 199     148.195 117.876  22.377  1.00 50.51      DS4
ATOM  37606  CA  GLN D 199     147.922 118.581  21.146  1.00 50.51      DS4
ATOM  37607  CB  GLN D 199     149.205 119.170  20.583  1.00 55.91      DS4
ATOM  37608  CG  GLN D 199     148.989 120.379  19.723  1.00 55.91      DS4
ATOM  37609  CD  GLN D 199     147.953 120.162  18.634  1.00 55.91      DS4
ATOM  37610  OE1 GLN D 199     148.197 120.495  17.472  1.00 55.91      DS4
ATOM  37611  NE2 GLN D 199     146.790 119.622  18.998  1.00 55.91      DS4
ATOM  37612  C   GLN D 199     147.404 117.479  20.232  1.00 50.51      DS4
ATOM  37613  O   GLN D 199     148.136 116.951  19.403  1.00 50.51      DS4
ATOM  37614  N   GLU D 200     146.140 117.121  20.399  1.00 50.64      DS4
ATOM  37615  CA  GLU D 200     145.556 116.057  19.605  1.00 50.64      DS4
ATOM  37616  CB  GLU D 200     144.035 116.035  19.748  1.00 69.32      DS4
ATOM  37617  CG  GLU D 200     143.373 117.367  19.492  1.00 69.32      DS4
ATOM  37618  CD  GLU D 200     143.297 118.221  20.737  1.00 69.32      DS4
ATOM  37619  OE1 GLU D 200     144.346 118.450  21.378  1.00 69.32      DS4
ATOM  37620  OE2 GLU D 200     142.180 118.663  21.073  1.00 69.32      DS4
ATOM  37621  C   GLU D 200     145.914 116.135  18.137  1.00 50.64      DS4
ATOM  37622  O   GLU D 200     146.179 115.100  17.519  1.00 50.64      DS4
ATOM  37623  N   ASN D 201     145.932 117.346  17.574  1.00 43.25      DS4
ATOM  37624  CA  ASN D 201     146.250 117.490  16.155  1.00 43.25      DS4
ATOM  37625  CB  ASN D 201     146.545 118.944  15.783  1.00 88.65      DS4
ATOM  37626  CG  ASN D 201     146.355 119.215  14.293  1.00 88.65      DS4
ATOM  37627  OD1 ASN D 201     145.254 119.045  13.754  1.00 88.65      DS4
ATOM  37628  ND2 ASN D 201     147.426 119.636  13.621  1.00 88.65      DS4
ATOM  37629  C   ASN D 201     147.457 116.621  15.867  1.00 43.25      DS4
ATOM  37630  O   ASN D 201     147.453 115.857  14.911  1.00 43.25      DS4
ATOM  37631  N   LEU D 202     148.476 116.718  16.711  1.00 36.77      DS4
ATOM  37632  CA  LEU D 202     149.659 115.895  16.545  1.00 36.77      DS4
ATOM  37633  CB  LEU D 202     150.687 116.191  17.612  1.00 26.13      DS4
ATOM  37634  CG  LEU D 202     151.313 117.565  17.512  1.00 26.13      DS4
ATOM  37635  CD1 LEU D 202     152.516 117.616  18.424  1.00 26.13      DS4
ATOM  37636  CD2 LEU D 202     151.725 117.833  16.084  1.00 26.13      DS4
ATOM  37637  C   LEU D 202     149.291 114.434  16.652  1.00 36.77      DS4
ATOM  37638  O   LEU D 202     149.471 113.673  15.707  1.00 36.77      DS4
ATOM  37639  N   VAL D 203     148.783 114.030  17.806  1.00 30.90      DS4
ATOM  37640  CA  VAL D 203     148.411 112.640  17.975  1.00 30.90      DS4
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ATOM  37641  CB  VAL D 203     147.500 112.447  19.195  1.00 38.68      DS4
ATOM  37642  CG1 VAL D 203     146.949 111.024  19.211  1.00 38.68      DS4
ATOM  37643  CG2 VAL D 203     148.292 112.726  20.471  1.00 38.68      DS4
ATOM  37644  C   VAL D 203     147.720 112.090  16.725  1.00 30.90      DS4
ATOM  37645  O   VAL D 203     148.041 110.999  16.258  1.00 30.90      DS4
ATOM  37646  N   ILE D 204     146.779 112.841  16.172  1.00 27.77      DS4
ATOM  37647  CA  ILE D 204     146.104 112.373  14.976  1.00 27.77      DS4
ATOM  37648  CB  ILE D 204     145.129 113.406  14.449  1.00 59.32      DS4
ATOM  37649  CG2 ILE D 204     144.554 112.942  13.126  1.00 59.32      DS4
ATOM  37650  CG1 ILE D 204     144.024 113.625  15.467  1.00 59.32      DS4
ATOM  37651  CD1 ILE D 204     142.969 114.584  14.989  1.00 59.32      DS4
ATOM  37652  C   ILE D 204     147.140 112.114  13.892  1.00 27.77      DS4
ATOM  37653  O   ILE D 204     147.100 111.089  13.217  1.00 27.77      DS4
ATOM  37654  N   GLU D 205     148.064 113.056  13.735  1.00 34.74      DS4
ATOM  37655  CA  GLU D 205     149.109 112.950  12.734  1.00 34.74      DS4
ATOM  37656  CB  GLU D 205     149.927 114.240  12.683  1.00 74.39      DS4
ATOM  37657  CG  GLU D 205     149.137 115.415  12.140  1.00 74.39      DS4
ATOM  37658  CD  GLU D 205     149.969 116.675  11.971  1.00 74.39      DS4
ATOM  37659  OE1 GLU D 205     149.408 117.706  11.524  1.00 74.39      DS4
ATOM  37660  OE2 GLU D 205     151.179 116.633  12.282  1.00 74.39      DS4
ATOM  37661  C   GLU D 205     150.021 111.768  12.995  1.00 34.74      DS4
ATOM  37662  O   GLU D 205     150.426 111.076  12.066  1.00 34.74      DS4
ATOM  37663  N   PHE D 206     150.334 111.523  14.261  1.00 42.92      DS4
ATOM  37664  CA  PHE D 206     151.216 110.422  14.624  1.00 42.92      DS4
ATOM  37665  CB  PHE D 206     151.373 110.343  16.128  1.00 25.56      DS4
ATOM  37666  CG  PHE D 206     152.108 109.131  16.582  1.00 25.56      DS4
ATOM  37667  CD1 PHE D 206     153.494 109.081  16.523  1.00 25.56      DS4
ATOM  37668  CD2 PHE D 206     151.416 108.025  17.066  1.00 25.56      DS4
ATOM  37669  CE1 PHE D 206     154.188 107.941  16.946  1.00 25.56      DS4
ATOM  37670  CE2 PHE D 206     152.096 106.884  17.490  1.00 25.56      DS4
ATOM  37671  CZ  PHE D 206     153.483 106.843  17.431  1.00 25.56      DS4
ATOM  37672  C   PHE D 206     150.703 109.089  14.127  1.00 42.92      DS4
ATOM  37673  O   PHE D 206     151.479 108.223  13.749  1.00 42.92      DS4
ATOM  37674  N   TYR D 207     149.391 108.917  14.160  1.00 38.10      DS4
ATOM  37675  CA  TYR D 207     148.789 107.684  13.702  1.00 38.10      DS4
ATOM  37676  CB  TYR D 207     147.522 107.368  14.510  1.00 37.32      DS4
ATOM  37677  CG  TYR D 207     147.801 106.855  15.904  1.00 37.32      DS4
ATOM  37678  CD1 TYR D 207     146.993 107.215  16.982  1.00 37.32      DS4
ATOM  37679  CE1 TYR D 207     147.289 106.786  18.287  1.00 37.32      DS4
ATOM  37680  CD2 TYR D 207     148.905 106.045  16.158  1.00 37.32      DS4
ATOM  37681  CE2 TYR D 207     149.203 105.612  17.451  1.00 37.32      DS4
ATOM  37682  CZ  TYR D 207     148.398 105.988  18.509  1.00 37.32      DS4
ATOM  37683  OH  TYR D 207     148.724 105.574  19.779  1.00 37.32      DS4
ATOM  37684  C   TYR D 207     148.450 107.839  12.236  1.00 38.10      DS4
ATOM  37685  O   TYR D 207     148.083 106.868  11.574  1.00 38.10      DS4
ATOM  37686  N   SER D 208     148.566 109.064  11.729  1.00 53.32      DS4
ATOM  37687  CA  SER D 208     148.267 109.343  10.323  1.00 53.32      DS4
ATOM  37688  CB  SER D 208     148.246 110.852  10.060  1.00185.48      DS4
ATOM  37689  OG  SER D 208     147.157 111.472  10.719  1.00185.48      DS4
ATOM  37690  C   SER D 208     149.324 108.690   9.459  1.00 53.32      DS4
ATOM  37691  O   SER D 208     149.165 108.551   8.250  1.00 53.32      DS4
ATOM  37692  N   ARG D 209     150.402 108.285  10.112  1.00115.03      DS4
ATOM  37693  CA  ARG D 209     151.523 107.636   9.461  1.00115.03      DS4
ATOM  37694  CB  ARG D 209     152.782 107.911  10.277  1.00 88.99      DS4
ATOM  37695  CG  ARG D 209     154.099 107.500   9.663  1.00 88.99      DS4
ATOM  37696  CD  ARG D 209     155.232 108.069  10.513  1.00 88.99      DS4
ATOM  37697  NE  ARG D 209     156.549 107.749   9.979  1.00 88.99      DS4
ATOM  37698  CZ  ARG D 209     157.032 106.517   9.906  1.00 88.99      DS4
ATOM  37699  NH1 ARG D 209     156.297 105.501  10.338  1.00 88.99      DS4
ATOM  37700  NH2 ARG D 209     158.243 106.304   9.403  1.00 88.99      DS4
ATOM  37701  C   ARG D 209     151.225 106.144   9.413  1.00115.03      DS4
ATOM  37702  O   ARG D 209     151.297 105.568   8.307  1.00115.03      DS4
ATOM  37703  OXT ARG D 209     150.915 105.572  10.484  1.00 88.99      DS4
TER   37703       ARG D 209                                              DS4
ATOM  37704  CB  ASP E   5     154.860 138.793  13.668  1.00163.97      ES5
ATOM  37705  CG  ASP E   5     156.111 139.159  12.875  1.00163.97      ES5
ATOM  37706  OD1 ASP E   5     157.197 139.272  13.483  1.00163.97      ES5
ATOM  37707  OD2 ASP E   5     156.005 139.346  11.642  1.00163.97      ES5
ATOM  37708  C   ASP E   5     155.164 136.297  13.573  1.00121.69      ES5
ATOM  37709  O   ASP E   5     154.259 135.463  13.491  1.00121.69      ES5
ATOM  37710  N   ASP E   5     156.205 137.635  15.405  1.00121.69      ES5
ATOM  37711  CA  ASP E   5     155.029 137.507  14.496  1.00121.69      ES5
ATOM  37712  N   PHE E   6     156.304 136.208  12.890  1.00 50.60      ES5
ATOM  37713  CA  PHE E   6     156.594 135.116  11.964  1.00 50.60      ES5
ATOM  37714  CB  PHE E   6     157.436 135.626  10.785  1.00 55.12      ES5
ATOM  37715  CG  PHE E   6     156.648 136.362   9.733  1.00 55.12      ES5
ATOM  37716  CD1 PHE E   6     157.295 137.205   8.833  1.00 55.12      ES5
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ATOM  37717  CD2 PHE E   6     155.269 136.203   9.624  1.00 55.12       ES5
ATOM  37718  CE1 PHE E   6     156.582 137.878   7.841  1.00 55.12       ES5
ATOM  37719  CE2 PHE E   6     154.547 136.874   8.634  1.00 55.12       ES5
ATOM  37720  CZ  PHE E   6     155.204 137.711   7.744  1.00 55.12       ES5
ATOM  37721  C   PHE E   6     157.357 133.990  12.650  1.00 50.60       ES5
ATOM  37722  O   PHE E   6     158.319 134.234  13.379  1.00 50.60       ES5
ATOM  37723  N   GLU E   7     156.915 132.758  12.428  1.00 59.59       ES5
ATOM  37724  CA  GLU E   7     157.600 131.620  12.998  1.00 59.59       ES5
ATOM  37725  CB  GLU E   7     156.635 130.477  13.313  1.00138.22       ES5
ATOM  37726  CG  GLU E   7     157.322 129.291  13.989  1.00138.22       ES5
ATOM  37727  CD  GLU E   7     156.347 128.248  14.512  1.00138.22       ES5
ATOM  37728  OE1 GLU E   7     156.806 127.234  15.085  1.00138.22       ES5
ATOM  37729  OE2 GLU E   7     155.122 128.442  14.354  1.00138.22       ES5
ATOM  37730  C   GLU E   7     158.582 131.200  11.920  1.00 59.59       ES5
ATOM  37731  O   GLU E   7     158.322 131.376  10.721  1.00 59.59       ES5
ATOM  37732  N   GLU E   8     159.718 130.664  12.345  1.00 57.06       ES5
ATOM  37733  CA  GLU E   8     160.743 130.239  11.413  1.00 57.06       ES5
ATOM  37734  CB  GLU E   8     162.049 130.974  11.732  1.00126.67       ES5
ATOM  37735  CG  GLU E   8     162.851 131.405  10.515  1.00126.67       ES5
ATOM  37736  CD  GLU E   8     164.060 132.261  10.877  1.00126.67       ES5
ATOM  37737  OE1 GLU E   8     164.880 131.815  11.706  1.00126.67       ES5
ATOM  37738  OE2 GLU E   8     164.199 133.378  10.331  1.00126.67       ES5
ATOM  37739  C   GLU E   8     160.929 128.731  11.535  1.00 57.06       ES5
ATOM  37740  O   GLU E   8     161.211 128.211  12.613  1.00 57.06       ES5
ATOM  37741  N   LYS E   9     160.725 128.023  10.434  1.00 64.84       ES5
ATOM  37742  CA  LYS E   9     160.918 126.582  10.424  1.00 64.84       ES5
ATOM  37743  CB  LYS E   9     159.617 125.852  10.083  1.00147.24       ES5
ATOM  37744  CG  LYS E   9     159.722 124.333  10.200  1.00147.24       ES5
ATOM  37745  CD  LYS E   9     158.357 123.664  10.375  1.00147.24       ES5
ATOM  37746  CE  LYS E   9     157.730 124.005  11.726  1.00147.24       ES5
ATOM  37747  NZ  LYS E   9     156.468 123.254  11.993  1.00147.24       ES5
ATOM  37748  C   LYS E   9     161.983 126.332   9.363  1.00 64.84       ES5
ATOM  37749  O   LYS E   9     161.902 126.867   8.246  1.00 64.84       ES5
ATOM  37750  N   MET E  10     162.986 125.536   9.728  1.00 34.66       ES5
ATOM  37751  CA  MET E  10     164.109 125.234   8.840  1.00 34.66       ES5
ATOM  37752  CB  MET E  10     165.407 125.339   9.652  1.00 81.82       ES5
ATOM  37753  CG  MET E  10     166.695 125.221   8.871  1.00 81.82       ES5
ATOM  37754  SD  MET E  10     167.106 123.511   8.531  1.00 81.82       ES5
ATOM  37755  CE  MET E  10     167.619 122.925  10.136  1.00 81.82       ES5
ATOM  37756  C   MET E  10     163.998 123.874   8.146  1.00 34.66       ES5
ATOM  37757  O   MET E  10     164.382 122.846   8.699  1.00 34.66       ES5
ATOM  37758  N   ILE E  11     163.466 123.896   6.925  1.00 60.70       ES5
ATOM  37759  CA  ILE E  11     163.281 122.703   6.106  1.00 60.70       ES5
ATOM  37760  CB  ILE E  11     163.031 123.071   4.650  1.00 43.52       ES5
ATOM  37761  CG2 ILE E  11     162.983 121.819   3.817  1.00 43.52       ES5
ATOM  37762  CG1 ILE E  11     161.721 123.834   4.526  1.00 43.52       ES5
ATOM  37763  CD1 ILE E  11     160.555 123.057   5.042  1.00 43.52       ES5
ATOM  37764  C   ILE E  11     164.478 121.766   6.131  1.00 60.70       ES5
ATOM  37765  O   ILE E  11     164.443 120.721   6.779  1.00 60.70       ES5
ATOM  37766  N   LEU E  12     165.526 122.130   5.396  1.00 53.44       ES5
ATOM  37767  CA  LEU E  12     166.742 121.323   5.360  1.00 53.44       ES5
ATOM  37768  CB  LEU E  12     166.647 120.253   4.267  1.00 51.00       ES5
ATOM  37769  CG  LEU E  12     166.757 120.670   2.791  1.00 51.00       ES5
ATOM  37770  CD1 LEU E  12     165.825 121.834   2.560  1.00 51.00       ES5
ATOM  37771  CD2 LEU E  12     168.192 121.050   2.400  1.00 51.00       ES5
ATOM  37772  C   LEU E  12     167.972 122.174   5.097  1.00 53.44       ES5
ATOM  37773  O   LEU E  12     167.878 123.268   4.526  1.00 53.44       ES5
ATOM  37774  N   ILE E  13     169.124 121.679   5.540  1.00 40.76       ES5
ATOM  37775  CA  ILE E  13     170.376 122.366   5.266  1.00 40.76       ES5
ATOM  37776  CB  ILE E  13     170.974 123.075   6.483  1.00 42.22       ES5
ATOM  37777  CG2 ILE E  13     169.987 124.066   7.041  1.00 42.22       ES5
ATOM  37778  CG1 ILE E  13     171.358 122.068   7.542  1.00 42.22       ES5
ATOM  37779  CD1 ILE E  13     172.001 122.728   8.726  1.00 42.22       ES5
ATOM  37780  C   ILE E  13     171.321 121.284   4.791  1.00 40.76       ES5
ATOM  37781  O   ILE E  13     171.427 120.222   5.416  1.00 40.76       ES5
ATOM  37782  N   ARG E  14     171.976 121.562   3.663  1.00 21.78       ES5
ATOM  37783  CA  ARG E  14     172.896 120.634   3.028  1.00 21.78       ES5
ATOM  37784  CB  ARG E  14     172.369 120.280   1.657  1.00 32.03       ES5
ATOM  37785  CG  ARG E  14     172.379 121.453   0.721  1.00 32.03       ES5
ATOM  37786  CD  ARG E  14     171.810 121.024  -0.576  1.00 32.03       ES5
ATOM  37787  NE  ARG E  14     171.922 122.057  -1.587  1.00 32.03       ES5
ATOM  37788  CZ  ARG E  14     171.357 121.944  -2.783  1.00 32.03       ES5
ATOM  37789  NH1 ARG E  14     170.656 120.840  -3.063  1.00 32.03       ES5
ATOM  37790  NH2 ARG E  14     171.493 122.915  -3.690  1.00 32.03       ES5
ATOM  37791  C   ARG E  14     174.267 121.263   2.887  1.00 21.78       ES5
ATOM  37792  O   ARG E  14     174.391 122.486   2.863  1.00 21.78       ES5
ATOM  37793  N   ARG E  15     175.287 120.424   2.727  1.00 45.71       ES5
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ATOM  37794  CA  ARG E  15     176.653 120.905   2.650  1.00 45.71       ES5
ATOM  37795  CB  ARG E  15     177.581 119.906   3.330  1.00 63.07       ES5
ATOM  37796  CG  ARG E  15     178.982 120.442   3.514  1.00 63.07       ES5
ATOM  37797  CD  ARG E  15     179.900 119.897   2.457  1.00 63.07       ES5
ATOM  37798  NE  ARG E  15     180.576 118.679   2.899  1.00 63.07       ES5
ATOM  37799  CZ  ARG E  15     181.287 118.582   4.023  1.00 63.07       ES5
ATOM  37800  NH1 ARG E  15     181.411 119.634   4.824  1.00 63.07       ES5
ATOM  37801  NH2 ARG E  15     181.884 117.437   4.343  1.00 63.07       ES5
ATOM  37802  C   ARG E  15     177.298 121.338   1.349  1.00 45.71       ES5
ATOM  37803  O   ARG E  15     177.923 122.393   1.328  1.00 45.71       ES5
ATOM  37804  N   THR E  16     177.173 120.557   0.279  1.00 29.91       ES5
ATOM  37805  CA  THR E  16     177.822 120.895  -1.014  1.00 29.91       ES5
ATOM  37806  CB  THR E  16     177.059 121.966  -1.862  1.00 26.39       ES5
ATOM  37807  OG1 THR E  16     178.012 122.885  -2.419  1.00 26.39       ES5
ATOM  37808  CG2 THR E  16     176.049 122.725  -1.042  1.00 26.39       ES5
ATOM  37809  C   THR E  16     179.293 121.365  -1.006  1.00 29.91       ES5
ATOM  37810  O   THR E  16     179.752 122.057  -0.094  1.00 29.91       ES5
ATOM  37811  N   ALA E  17     180.022 120.994  -2.054  1.00 55.60       ES5
ATOM  37812  CA  ALA E  17     181.422 121.371  -2.177  1.00 55.60       ES5
ATOM  37813  CB  ALA E  17     182.309 120.263  -1.659  1.00 64.41       ES5
ATOM  37814  C   ALA E  17     181.788 121.704  -3.616  1.00 55.60       ES5
ATOM  37815  O   ALA E  17     181.087 121.329  -4.558  1.00 55.60       ES5
ATOM  37816  N   ARG E  18     182.898 122.416  -3.769  1.00 37.49       ES5
ATOM  37817  CA  ARG E  18     183.381 122.835  -5.069  1.00 37.49       ES5
ATOM  37818  CB  ARG E  18     183.040 124.305  -5.267  1.00 61.03       ES5
ATOM  37819  CG  ARG E  18     184.088 125.118  -5.955  1.00 61.03       ES5
ATOM  37820  CD  ARG E  18     184.955 125.794  -4.935  1.00 61.03       ES5
ATOM  37821  NE  ARG E  18     184.158 126.576  -4.001  1.00 61.03       ES5
ATOM  37822  CZ  ARG E  18     184.670 127.473  -3.168  1.00 61.03       ES5
ATOM  37823  NH1 ARG E  18     185.980 127.697  -3.164  1.00 61.03       ES5
ATOM  37824  NH2 ARG E  18     183.877 128.142  -2.336  1.00 61.03       ES5
ATOM  37825  C   ARG E  18     184.880 122.593  -5.135  1.00 37.49       ES5
ATOM  37826  O   ARG E  18     185.597 122.854  -4.178  1.00 37.49       ES5
ATOM  37827  N   MET E  19     185.348 122.086  -6.271  1.00 59.21       ES5
ATOM  37828  CA  MET E  19     186.757 121.767  -6.450  1.00 59.21       ES5
ATOM  37829  CB  MET E  19     186.936 120.686  -7.507  1.00 36.40       ES5
ATOM  37830  CG  MET E  19     186.537 119.337  -7.030  1.00 36.40       ES5
ATOM  37831  SD  MET E  19     187.304 119.058  -5.458  1.00 36.40       ES5
ATOM  37832  CE  MET E  19     188.285 117.552  -5.781  1.00 36.40       ES5
ATOM  37833  C   MET E  19     187.689 122.888  -6.804  1.00 59.21       ES5
ATOM  37834  O   MET E  19     187.384 123.756  -7.615  1.00 59.21       ES5
ATOM  37835  N   GLN E  20     188.853 122.844  -6.186  1.00 41.53       ES5
ATOM  37836  CA  GLN E  20     189.889 123.811  -6.453  1.00 41.53       ES5
ATOM  37837  CB  GLN E  20     189.830 125.005  -5.496  1.00106.17       ES5
ATOM  37838  CG  GLN E  20     188.694 125.980  -5.774  1.00106.17       ES5
ATOM  37839  CD  GLN E  20     188.712 126.529  -7.193  1.00106.17       ES5
ATOM  37840  OE1 GLN E  20     189.718 127.080  -7.641  1.00106.17       ES5
ATOM  37841  NE2 GLN E  20     187.593 126.387  -7.904  1.00106.17       ES5
ATOM  37842  C   GLN E  20     191.154 123.034  -6.224  1.00 41.53       ES5
ATOM  37843  O   GLN E  20     191.195 122.128  -5.383  1.00 41.53       ES5
ATOM  37844  N   ALA E  21     192.178 123.369  -6.998  1.00 72.40       ES5
ATOM  37845  CA  ALA E  21     193.464 122.725  -6.861  1.00 72.40       ES5
ATOM  37846  CB  ALA E  21     194.516 123.574  -7.494  1.00 21.69       ES5
ATOM  37847  C   ALA E  21     193.712 122.624  -5.371  1.00 72.40       ES5
ATOM  37848  O   ALA E  21     193.329 123.509  -4.605  1.00 72.40       ES5
ATOM  37849  N   GLY E  22     194.338 121.543  -4.944  1.00 49.59       ES5
ATOM  37850  CA  GLY E  22     194.596 121.418  -3.528  1.00 49.59       ES5
ATOM  37851  C   GLY E  22     193.395 121.009  -2.699  1.00 49.59       ES5
ATOM  37852  O   GLY E  22     193.533 120.753  -1.506  1.00 49.59       ES5
ATOM  37853  N   GLY E  23     192.208 120.966  -3.283  1.00 44.08       ES5
ATOM  37854  CA  GLY E  23     191.098 120.511  -2.471  1.00 44.08       ES5
ATOM  37855  C   GLY E  23     189.687 120.981  -2.729  1.00 44.08       ES5
ATOM  37856  O   GLY E  23     189.433 121.801  -3.620  1.00 44.08       ES5
ATOM  37857  N   ARG E  24     188.772 120.430  -1.928  1.00 62.39       ES5
ATOM  37858  CA  ARG E  24     187.364 120.771  -1.999  1.00 62.39       ES5
ATOM  37859  CB  ARG E  24     186.500 119.641  -1.453  1.00 94.58       ES5
ATOM  37860  CG  ARG E  24     186.976 118.264  -1.809  1.00 94.58       ES5
ATOM  37861  CD  ARG E  24     185.997 117.219  -1.311  1.00 94.58       ES5
ATOM  37862  NE  ARG E  24     186.575 115.880  -1.327  1.00 94.58       ES5
ATOM  37863  CZ  ARG E  24     187.054 115.274  -2.412  1.00 94.58       ES5
ATOM  37864  NH1 ARG E  24     187.027 115.881  -3.593  1.00 94.58       ES5
ATOM  37865  NH2 ARG E  24     187.572 114.057  -2.314  1.00 94.58       ES5
ATOM  37866  C   ARG E  24     187.156 122.000  -1.127  1.00 62.39       ES5
ATOM  37867  O   ARG E  24     187.924 122.263  -0.197  1.00 62.39       ES5
ATOM  37868  N   ARG E  25     186.115 122.756  -1.438  1.00 31.04       ES5
ATOM  37869  CA  ARG E  25     185.784 123.938  -0.682  1.00 31.04       ES5
ATOM  37870  CB  ARG E  25     186.372 125.155  -1.363  1.00 53.82       ES5
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ATOM  37871  CG  ARG E  25     187.874 125.097  -1.332  1.00 53.82       ES5
ATOM  37872  CD  ARG E  25     188.474 126.483  -1.391  1.00 53.82       ES5
ATOM  37873  NE  ARG E  25     189.918 126.465  -1.164  1.00 53.82       ES5
ATOM  37874  CZ  ARG E  25     190.694 127.541  -1.244  1.00 53.82       ES5
ATOM  37875  NH1 ARG E  25     190.171 128.729  -1.543  1.00 53.82       ES5
ATOM  37876  NH2 ARG E  25     191.999 127.420  -1.039  1.00 53.82       ES5
ATOM  37877  C   ARG E  25     184.274 123.982  -0.614  1.00 31.04       ES5
ATOM  37878  O   ARG E  25     183.593 124.071  -1.635  1.00 31.04       ES5
ATOM  37879  N   PHE E  26     183.763 123.906   0.607  1.00 40.01       ES5
ATOM  37880  CA  PHE E  26     182.338 123.876   0.839  1.00 40.01       ES5
ATOM  37881  CB  PHE E  26     182.058 123.009   2.038  1.00 47.46       ES5
ATOM  37882  CG  PHE E  26     183.067 121.946   2.231  1.00 47.46       ES5
ATOM  37883  CD1 PHE E  26     184.338 122.261   2.670  1.00 47.46       ES5
ATOM  37884  CD2 PHE E  26     182.755 120.621   1.979  1.00 47.46       ES5
ATOM  37885  CE1 PHE E  26     185.291 121.252   2.859  1.00 47.46       ES5
ATOM  37886  CE2 PHE E  26     183.692 119.605   2.164  1.00 47.46       ES5
ATOM  37887  CZ  PHE E  26     184.960 119.918   2.605  1.00 47.46       ES5
ATOM  37888  C   PHE E  26     181.635 125.202   1.025  1.00 40.01       ES5
ATOM  37889  O   PHE E  26     182.262 126.257   1.180  1.00 40.01       ES5
ATOM  37890  N   ARG E  27     180.309 125.107   1.013  1.00 61.90       ES5
ATOM  37891  CA  ARG E  27     179.410 126.232   1.176  1.00 61.90       ES5
ATOM  37892  CB  ARG E  27     179.310 127.011  -0.125  1.00 97.93       ES5
ATOM  37893  CG  ARG E  27     178.421 128.226  -0.051  1.00 97.93       ES5
ATOM  37894  CD  ARG E  27     178.434 128.905  -1.385  1.00 97.93       ES5
ATOM  37895  NE  ARG E  27     179.811 129.016  -1.850  1.00 97.93       ES5
ATOM  37896  CZ  ARG E  27     180.165 129.398  -3.071  1.00 97.93       ES5
ATOM  37897  NH1 ARG E  27     179.240 129.711  -3.969  1.00 97.93       ES5
ATOM  37898  NH2 ARG E  27     181.450 129.464  -3.393  1.00 97.93       ES5
ATOM  37899  C   ARG E  27     178.067 125.596   1.507  1.00 61.90       ES5
ATOM  37900  O   ARG E  27     177.626 124.701   0.793  1.00 61.90       ES5
ATOM  37901  N   PHE E  28     177.414 126.052   2.576  1.00 36.25       ES5
ATOM  37902  CA  PHE E  28     176.134 125.469   2.973  1.00 36.25       ES5
ATOM  37903  CB  PHE E  28     176.026 125.395   4.488  1.00 32.83       ES5
ATOM  37904  CG  PHE E  28     177.186 124.722   5.137  1.00 32.83       ES5
ATOM  37905  CD1 PHE E  28     178.427 125.344   5.180  1.00 32.83       ES5
ATOM  37906  CD2 PHE E  28     177.039 123.469   5.712  1.00 32.83       ES5
ATOM  37907  CE1 PHE E  28     179.499 124.728   5.785  1.00 32.83       ES5
ATOM  37908  CE2 PHE E  28     178.110 122.841   6.323  1.00 32.83       ES5
ATOM  37909  CZ  PHE E  28     179.339 123.466   6.362  1.00 32.83       ES5
ATOM  37910  C   PHE E  28     174.910 126.177   2.455  1.00 36.25       ES5
ATOM  37911  O   PHE E  28     174.923 127.380   2.207  1.00 36.25       ES5
ATOM  37912  N   GLY E  29     173.843 125.400   2.313  1.00 34.40       ES5
ATOM  37913  CA  GLY E  29     172.575 125.925   1.842  1.00 34.40       ES5
ATOM  37914  C   GLY E  29     171.474 125.515   2.801  1.00 34.40       ES5
ATOM  37915  O   GLY E  29     171.505 124.409   3.357  1.00 34.40       ES5
ATOM  37916  N   ALA E  30     170.499 126.398   2.991  1.00 41.61       ES5
ATOM  37917  CA  ALA E  30     169.410 126.121   3.914  1.00 41.61       ES5
ATOM  37918  CB  ALA E  30     169.662 126.835   5.225  1.00 22.21       ES5
ATOM  37919  C   ALA E  30     168.059 126.527   3.380  1.00 41.61       ES5
ATOM  37920  O   ALA E  30     167.900 127.599   2.787  1.00 41.61       ES5
ATOM  37921  N   LEU E  31     167.077 125.664   3.580  1.00 35.86       ES5
ATOM  37922  CA  LEU E  31     165.747 126.012   3.143  1.00 35.86       ES5
ATOM  37923  CB  LEU E  31     165.015 124.836   2.529  1.00 27.98       ES5
ATOM  37924  CG  LEU E  31     164.845 125.073   1.033  1.00 27.98       ES5
ATOM  37925  CD1 LEU E  31     163.711 124.201   0.516  1.00 27.98       ES5
ATOM  37926  CD2 LEU E  31     164.559 126.544   0.773  1.00 27.98       ES5
ATOM  37927  C   LEU E  31     165.009 126.480   4.361  1.00 35.86       ES5
ATOM  37928  O   LEU E  31     165.070 125.857   5.421  1.00 35.86       ES5
ATOM  37929  N   VAL E  32     164.312 127.592   4.215  1.00 35.13       ES5
ATOM  37930  CA  VAL E  32     163.594 128.129   5.340  1.00 35.13       ES5
ATOM  37931  CB  VAL E  32     164.342 129.307   5.924  1.00  9.96       ES5
ATOM  37932  CG1 VAL E  32     163.408 130.130   6.743  1.00  9.96       ES5
ATOM  37933  CG2 VAL E  32     165.479 128.811   6.785  1.00  9.96       ES5
ATOM  37934  C   VAL E  32     162.174 128.545   5.034  1.00 35.13       ES5
ATOM  37935  O   VAL E  32     161.887 129.213   4.024  1.00 35.13       ES5
ATOM  37936  N   VAL E  33     161.283 128.126   5.927  1.00 47.34       ES5
ATOM  37937  CA  VAL E  33     159.881 128.444   5.798  1.00 47.34       ES5
ATOM  37938  CB  VAL E  33     158.992 127.190   5.807  1.00 88.35       ES5
ATOM  37939  CG1 VAL E  33     157.542 127.599   5.706  1.00 88.35       ES5
ATOM  37940  CG2 VAL E  33     159.341 126.294   4.638  1.00 88.35       ES5
ATOM  37941  C   VAL E  33     159.521 129.317   6.969  1.00 47.34       ES5
ATOM  37942  O   VAL E  33     159.610 128.918   8.128  1.00 47.34       ES5
ATOM  37943  N   VAL E  34     159.151 130.538   6.636  1.00 31.67       ES5
ATOM  37944  CA  VAL E  34     158.751 131.518   7.606  1.00 31.67       ES5
ATOM  37945  CB  VAL E  34     159.415 132.841   7.306  1.00 38.89       ES5
ATOM  37946  CG1 VAL E  34     158.573 133.977   7.823  1.00 38.89       ES5
ATOM  37947  CG2 VAL E  34     160.785 132.858   7.939  1.00 38.89       ES5
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ATOM  37948  C   VAL E  34     157.257 131.638   7.432  1.00 31.67      ES5
ATOM  37949  O   VAL E  34     156.765 131.867   6.318  1.00 31.67      ES5
ATOM  37950  N   GLY E  35     156.536 131.458   8.530  1.00 49.64      ES5
ATOM  37951  CA  GLY E  35     155.092 131.546   8.474  1.00 49.64      ES5
ATOM  37952  C   GLY E  35     154.545 132.294   9.661  1.00 49.64      ES5
ATOM  37953  O   GLY E  35     155.300 132.683  10.542  1.00 49.64      ES5
ATOM  37954  N   ASP E  36     153.232 132.495   9.679  1.00 57.66      ES5
ATOM  37955  CA  ASP E  36     152.571 133.201  10.771  1.00 57.66      ES5
ATOM  37956  CB  ASP E  36     152.083 134.569  10.296  1.00 50.88      ES5
ATOM  37957  CG  ASP E  36     150.769 134.493   9.539  1.00 50.88      ES5
ATOM  37958  OD1 ASP E  36     150.552 133.506   8.804  1.00 50.88      ES5
ATOM  37959  OD2 ASP E  36     149.958 135.432   9.670  1.00 50.88      ES5
ATOM  37960  C   ASP E  36     151.379 132.395  11.265  1.00 57.66      ES5
ATOM  37961  O   ASP E  36     150.595 132.864  12.078  1.00 57.66      ES5
ATOM  37962  N   ARG E  37     151.241 131.180  10.759  1.00 36.75      ES5
ATOM  37963  CA  ARG E  37     150.138 130.328  11.149  1.00 36.75      ES5
ATOM  37964  CB  ARG E  37     150.195 130.073  12.646  1.00 59.57      ES5
ATOM  37965  CG  ARG E  37     151.490 129.481  13.130  1.00 59.57      ES5
ATOM  37966  CD  ARG E  37     151.572 128.019  12.777  1.00 59.57      ES5
ATOM  37967  NE  ARG E  37     152.553 127.320  13.601  1.00 59.57      ES5
ATOM  37968  CZ  ARG E  37     152.779 126.012  13.544  1.00 59.57      ES5
ATOM  37969  NH1 ARG E  37     152.094 125.250  12.696  1.00 59.57      ES5
ATOM  37970  NH2 ARG E  37     153.686 125.463  14.344  1.00 59.57      ES5
ATOM  37971  C   ARG E  37     148.810 130.996  10.806  1.00 36.75      ES5
ATOM  37972  O   ARG E  37     147.756 130.439  11.073  1.00 36.75      ES5
ATOM  37973  N   GLN E  38     148.849 132.178  10.204  1.00 41.95      ES5
ATOM  37974  CA  GLN E  38     147.611 132.873   9.888  1.00 41.95      ES5
ATOM  37975  CB  GLN E  38     147.557 134.192  10.655  1.00117.47      ES5
ATOM  37976  CG  GLN E  38     146.174 134.544  11.131  1.00117.47      ES5
ATOM  37977  CD  GLN E  38     145.623 133.490  12.064  1.00117.47      ES5
ATOM  37978  OE1 GLN E  38     146.215 133.203  13.105  1.00117.47      ES5
ATOM  37979  NE2 GLN E  38     144.490 132.900  11.695  1.00117.47      ES5
ATOM  37980  C   GLN E  38     147.368 133.145   8.406  1.00 41.95      ES5
ATOM  37981  O   GLN E  38     146.795 134.176   8.049  1.00 41.95      ES5
ATOM  37982  N   GLY E  39     147.798 132.229   7.545  1.00 65.18      ES5
ATOM  37983  CA  GLY E  39     147.590 132.418   6.119  1.00 65.18      ES5
ATOM  37984  C   GLY E  39     148.634 133.261   5.407  1.00 65.18      ES5
ATOM  37985  O   GLY E  39     148.390 133.721   4.293  1.00 65.18      ES5
ATOM  37986  N   ARG E  40     149.789 133.462   6.042  1.00 33.10      ES5
ATOM  37987  CA  ARG E  40     150.891 134.243   5.470  1.00 33.10      ES5
ATOM  37988  CB  ARG E  40     151.075 135.531   6.263  1.00116.12      ES5
ATOM  37989  CG  ARG E  40     149.807 136.346   6.376  1.00116.12      ES5
ATOM  37990  CD  ARG E  40     149.996 137.530   7.301  1.00116.12      ES5
ATOM  37991  NE  ARG E  40     151.157 138.334   6.931  1.00116.12      ES5
ATOM  37992  CZ  ARG E  40     151.359 138.848   5.722  1.00116.12      ES5
ATOM  37993  NH1 ARG E  40     150.477 138.643   4.754  1.00116.12      ES5
ATOM  37994  NH2 ARG E  40     152.444 139.571   5.478  1.00116.12      ES5
ATOM  37995  C   ARG E  40     152.161 133.389   5.550  1.00 33.10      ES5
ATOM  37996  O   ARG E  40     152.769 133.271   6.618  1.00 33.10      ES5
ATOM  37997  N   VAL E  41     152.553 132.794   4.417  1.00 47.28      ES5
ATOM  37998  CA  VAL E  41     153.733 131.918   4.345  1.00 47.28      ES5
ATOM  37999  CB  VAL E  41     153.387 130.533   3.837  1.00 60.35      ES5
ATOM  38000  CG1 VAL E  41     154.543 129.589   4.091  1.00 60.35      ES5
ATOM  38001  CG2 VAL E  41     152.140 130.058   4.482  1.00 60.35      ES5
ATOM  38002  C   VAL E  41     154.810 132.393   3.415  1.00 47.28      ES5
ATOM  38003  O   VAL E  41     154.523 132.939   2.347  1.00 47.28      ES5
ATOM  38004  N   GLY E  42     156.050 132.125   3.814  1.00 59.61      ES5
ATOM  38005  CA  GLY E  42     157.199 132.512   3.019  1.00 59.61      ES5
ATOM  38006  C   GLY E  42     158.278 131.447   2.996  1.00 59.61      ES5
ATOM  38007  O   GLY E  42     158.564 130.815   4.018  1.00 59.61      ES5
ATOM  38008  N   LEU E  43     158.875 131.248   1.821  1.00 59.26      ES5
ATOM  38009  CA  LEU E  43     159.940 130.258   1.640  1.00 59.26      ES5
ATOM  38010  CB  LEU E  43     159.489 129.151   0.690  1.00 22.98      ES5
ATOM  38011  CG  LEU E  43     160.215 127.801   0.736  1.00 22.98      ES5
ATOM  38012  CD1 LEU E  43     159.839 127.021  -0.531  1.00 22.98      ES5
ATOM  38013  CD2 LEU E  43     161.716 127.981   0.854  1.00 22.98      ES5
ATOM  38014  C   LEU E  43     161.172 130.917   1.044  1.00 59.26      ES5
ATOM  38015  O   LEU E  43     161.097 131.572   0.004  1.00 59.26      ES5
ATOM  38016  N   GLY E  44     162.309 130.728   1.692  1.00 37.18      ES5
ATOM  38017  CA  GLY E  44     163.524 131.320   1.177  1.00 37.18      ES5
ATOM  38018  C   GLY E  44     164.694 130.357   1.146  1.00 37.18      ES5
ATOM  38019  O   GLY E  44     164.926 129.594   2.097  1.00 37.18      ES5
ATOM  38020  N   PHE E  45     165.444 130.374   0.052  1.00 70.77      ES5
ATOM  38021  CA  PHE E  45     166.592 129.495  -0.040  1.00 70.77      ES5
ATOM  38022  CB  PHE E  45     166.519 128.659  -1.298  1.00 51.39      ES5
ATOM  38023  CG  PHE E  45     167.546 127.583  -1.343  1.00 51.39      ES5
ATOM  38024  CD1 PHE E  45     167.625 126.648  -0.319  1.00 51.39      ES5
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ATOM  38025  CD2 PHE E  45     168.434 127.495  -2.401  1.00 51.39       ES5
ATOM  38026  CE1 PHE E  45     168.572 125.642  -0.351  1.00 51.39       ES5
ATOM  38027  CE2 PHE E  45     169.381 126.489  -2.436  1.00 51.39       ES5
ATOM  38028  CZ  PHE E  45     169.451 125.562  -1.410  1.00 51.39       ES5
ATOM  38029  C   PHE E  45     167.875 130.303  -0.048  1.00 70.77       ES5
ATOM  38030  O   PHE E  45     168.152 131.026  -1.004  1.00 70.77       ES5
ATOM  38031  N   GLY E  46     168.663 130.176   1.014  1.00 21.02       ES5
ATOM  38032  CA  GLY E  46     169.896 130.935   1.099  1.00 21.02       ES5
ATOM  38033  C   GLY E  46     171.115 130.076   1.357  1.00 21.02       ES5
ATOM  38034  O   GLY E  46     171.061 129.088   2.104  1.00 21.02       ES5
ATOM  38035  N   LYS E  47     172.227 130.443   0.731  1.00 26.28       ES5
ATOM  38036  CA  LYS E  47     173.445 129.677   0.909  1.00 26.28       ES5
ATOM  38037  CB  LYS E  47     173.832 128.945  -0.379  1.00 47.29       ES5
ATOM  38038  CG  LYS E  47     172.679 128.511  -1.259  1.00 47.29       ES5
ATOM  38039  CD  LYS E  47     172.466 129.514  -2.367  1.00 47.29       ES5
ATOM  38040  CE  LYS E  47     171.251 129.158  -3.193  1.00 47.29       ES5
ATOM  38041  NZ  LYS E  47     170.931 130.195  -4.221  1.00 47.29       ES5
ATOM  38042  C   LYS E  47     174.563 130.614   1.308  1.00 26.28       ES5
ATOM  38043  O   LYS E  47     174.546 131.796   0.982  1.00 26.28       ES5
ATOM  38044  N   ALA E  48     175.542 130.073   2.014  1.00 34.68       ES5
ATOM  38045  CA  ALA E  48     176.663 130.872   2.461  1.00 34.68       ES5
ATOM  38046  CB  ALA E  48     176.170 132.001   3.370  1.00 50.66       ES5
ATOM  38047  C   ALA E  48     177.716 130.023   3.178  1.00 34.68       ES5
ATOM  38048  O   ALA E  48     177.426 128.938   3.699  1.00 34.68       ES5
ATOM  38049  N   PRO E  49     178.961 130.518   3.196  1.00 22.85       ES5
ATOM  38050  CD  PRO E  49     179.309 131.832   2.640  1.00 32.96       ES5
ATOM  38051  CA  PRO E  49     180.137 129.909   3.802  1.00 22.85       ES5
ATOM  38052  CB  PRO E  49     181.098 131.087   3.947  1.00 32.96       ES5
ATOM  38053  CG  PRO E  49     180.239 132.323   3.667  1.00 32.96       ES5
ATOM  38054  C   PRO E  49     179.925 129.158   5.098  1.00 22.85       ES5
ATOM  38055  O   PRO E  49     180.505 128.089   5.289  1.00 22.85       ES5
ATOM  38056  N   GLU E  50     179.101 129.692   5.992  1.00 52.91       ES5
ATOM  38057  CA  GLU E  50     178.860 129.026   7.270  1.00 52.91       ES5
ATOM  38058  CB  GLU E  50     179.457 129.864   8.402  1.00172.91       ES5
ATOM  38059  CG  GLU E  50     180.962 130.070   8.238  1.00172.91       ES5
ATOM  38060  CD  GLU E  50     181.532 131.138   9.153  1.00172.91       ES5
ATOM  38061  OE1 GLU E  50     181.069 132.297   9.075  1.00172.91       ES5
ATOM  38062  OE2 GLU E  50     182.450 130.821   9.941  1.00172.91       ES5
ATOM  38063  C   GLU E  50     177.368 128.827   7.462  1.00 52.91       ES5
ATOM  38064  O   GLU E  50     176.579 129.744   7.217  1.00 52.91       ES5
ATOM  38065  N   VAL E  51     176.986 127.623   7.884  1.00 32.43       ES5
ATOM  38066  CA  VAL E  51     175.571 127.291   8.093  1.00 32.43       ES5
ATOM  38067  CB  VAL E  51     175.386 126.158   9.130  1.00 41.30       ES5
ATOM  38068  CG1 VAL E  51     173.975 125.641   9.073  1.00 41.30       ES5
ATOM  38069  CG2 VAL E  51     176.376 125.055   8.888  1.00 41.30       ES5
ATOM  38070  C   VAL E  51     174.764 128.496   8.578  1.00 32.43       ES5
ATOM  38071  O   VAL E  51     173.915 129.015   7.851  1.00 32.43       ES5
ATOM  38072  N   PRO E  52     175.042 128.965   9.811  1.00 36.33       ES5
ATOM  38073  CD  PRO E  52     176.228 128.594  10.605  1.00 47.57       ES5
ATOM  38074  CA  PRO E  52     174.372 130.102  10.434  1.00 36.33       ES5
ATOM  38075  CB  PRO E  52     175.426 130.617  11.384  1.00 47.57       ES5
ATOM  38076  CG  PRO E  52     176.012 129.351  11.885  1.00 47.57       ES5
ATOM  38077  C   PRO E  52     173.959 131.138   9.428  1.00 36.33       ES5
ATOM  38078  O   PRO E  52     172.769 131.382   9.226  1.00 36.33       ES5
ATOM  38079  N   LEU E  53     174.951 131.745   8.794  1.00 31.56       ES5
ATOM  38080  CA  LEU E  53     174.687 132.757   7.778  1.00 31.56       ES5
ATOM  38081  CB  LEU E  53     175.984 133.097   7.042  1.00 72.58       ES5
ATOM  38082  CG  LEU E  53     176.973 134.018   7.748  1.00 72.58       ES5
ATOM  38083  CD1 LEU E  53     178.337 133.988   7.069  1.00 72.58       ES5
ATOM  38084  CD2 LEU E  53     176.391 135.412   7.730  1.00 72.58       ES5
ATOM  38085  C   LEU E  53     173.635 132.290   6.763  1.00 31.56       ES5
ATOM  38086  O   LEU E  53     172.706 133.032   6.430  1.00 31.56       ES5
ATOM  38087  N   ALA E  54     173.791 131.060   6.274  1.00 34.34       ES5
ATOM  38088  CA  ALA E  54     172.875 130.509   5.286  1.00 34.34       ES5
ATOM  38089  CB  ALA E  54     173.302 129.110   4.908  1.00 85.95       ES5
ATOM  38090  C   ALA E  54     171.464 130.487   5.831  1.00 34.34       ES5
ATOM  38091  O   ALA E  54     170.508 130.913   5.175  1.00 34.34       ES5
ATOM  38092  N   VAL E  55     171.333 129.989   7.047  1.00 21.15       ES5
ATOM  38093  CA  VAL E  55     170.028 129.915   7.646  1.00 21.15       ES5
ATOM  38094  CB  VAL E  55     170.088 129.376   9.050  1.00 13.33       ES5
ATOM  38095  CG1 VAL E  55     168.699 128.990   9.486  1.00 13.33       ES5
ATOM  38096  CG2 VAL E  55     171.024 128.193   9.111  1.00 13.33       ES5
ATOM  38097  C   VAL E  55     169.455 131.299   7.717  1.00 21.15       ES5
ATOM  38098  O   VAL E  55     168.324 131.538   7.298  1.00 21.15       ES5
ATOM  38099  N   GLN E  56     170.243 132.229   8.240  1.00 18.28       ES5
ATOM  38100  CA  GLN E  56     169.748 133.590   8.370  1.00 18.28       ES5
ATOM  38101  CB  GLN E  56     170.753 134.471   9.110  1.00159.43       ES5
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ATOM  38102  CG  GLN E  56     170.080 135.309  10.187  1.00159.43      ES5
ATOM  38103  CD  GLN E  56     169.105 134.489  11.036  1.00159.43      ES5
ATOM  38104  OE1 GLN E  56     169.512 133.604  11.792  1.00159.43      ES5
ATOM  38105  NE2 GLN E  56     167.810 134.776  10.900  1.00159.43      ES5
ATOM  38106  C   GLN E  56     169.412 134.166   7.018  1.00 18.28      ES5
ATOM  38107  O   GLN E  56     168.316 134.681   6.817  1.00 18.28      ES5
ATOM  38108  N   LYS E  57     170.344 134.046   6.080  1.00 34.98      ES5
ATOM  38109  CA  LYS E  57     170.120 134.560   4.742  1.00 34.98      ES5
ATOM  38110  CB  LYS E  57     171.316 134.230   3.836  1.00 63.91      ES5
ATOM  38111  CG  LYS E  57     171.392 135.087   2.566  1.00 63.91      ES5
ATOM  38112  CD  LYS E  57     172.650 134.819   1.731  1.00 63.91      ES5
ATOM  38113  CE  LYS E  57     173.927 135.273   2.452  1.00 63.91      ES5
ATOM  38114  NZ  LYS E  57     175.177 134.933   1.708  1.00 63.91      ES5
ATOM  38115  C   LYS E  57     168.852 133.879   4.245  1.00 34.98      ES5
ATOM  38116  O   LYS E  57     168.049 134.470   3.520  1.00 34.98      ES5
ATOM  38117  N   ALA E  58     168.666 132.635   4.671  1.00 30.45      ES5
ATOM  38118  CA  ALA E  58     167.495 131.877   4.269  1.00 30.45      ES5
ATOM  38119  CB  ALA E  58     167.584 130.462   4.815  1.00103.32      ES5
ATOM  38120  C   ALA E  58     166.200 132.553   4.737  1.00 30.45      ES5
ATOM  38121  O   ALA E  58     165.338 132.900   3.916  1.00 30.45      ES5
ATOM  38122  N   GLY E  59     166.072 132.743   6.051  1.00 47.80      ES5
ATOM  38123  CA  GLY E  59     164.884 133.380   6.599  1.00 47.80      ES5
ATOM  38124  C   GLY E  59     164.622 134.736   5.970  1.00 47.80      ES5
ATOM  38125  O   GLY E  59     163.482 135.106   5.685  1.00 47.80      ES5
ATOM  38126  N   TYR E  60     165.700 135.478   5.751  1.00 50.28      ES5
ATOM  38127  CA  TYR E  60     165.631 136.803   5.157  1.00 50.28      ES5
ATOM  38128  CB  TYR E  60     167.040 137.324   4.912  1.00 78.15      ES5
ATOM  38129  CG  TYR E  60     167.086 138.653   4.207  1.00 78.15      ES5
ATOM  38130  CD1 TYR E  60     166.919 139.845   4.906  1.00 78.15      ES5
ATOM  38131  CE1 TYR E  60     167.001 141.071   4.259  1.00 78.15      ES5
ATOM  38132  CD2 TYR E  60     167.326 138.721   2.835  1.00 78.15      ES5
ATOM  38133  CE2 TYR E  60     167.407 139.938   2.176  1.00 78.15      ES5
ATOM  38134  CZ  TYR E  60     167.248 141.111   2.892  1.00 78.15      ES5
ATOM  38135  OH  TYR E  60     167.368 142.317   2.239  1.00 78.15      ES5
ATOM  38136  C   TYR E  60     164.882 136.768   3.842  1.00 50.28      ES5
ATOM  38137  O   TYR E  60     163.903 137.489   3.654  1.00 50.28      ES5
ATOM  38138  N   TYR E  61     165.366 135.931   2.930  1.00 38.53      ES5
ATOM  38139  CA  TYR E  61     164.762 135.793   1.616  1.00 38.53      ES5
ATOM  38140  CB  TYR E  61     165.535 134.786   0.760  1.00 72.75      ES5
ATOM  38141  CG  TYR E  61     166.920 135.217   0.344  1.00 72.75      ES5
ATOM  38142  CD1 TYR E  61     167.122 136.409  -0.347  1.00 72.75      ES5
ATOM  38143  CE1 TYR E  61     168.398 136.806  -0.741  1.00 72.75      ES5
ATOM  38144  CD2 TYR E  61     168.028 134.427   0.630  1.00 72.75      ES5
ATOM  38145  CE2 TYR E  61     169.301 134.812   0.241  1.00 72.75      ES5
ATOM  38146  CZ  TYR E  61     169.479 136.003  -0.440  1.00 72.75      ES5
ATOM  38147  OH  TYR E  61     170.740 136.408  -0.795  1.00 72.75      ES5
ATOM  38148  C   TYR E  61     163.351 135.285   1.787  1.00 38.53      ES5
ATOM  38149  O   TYR E  61     162.424 135.735   1.105  1.00 38.53      ES5
ATOM  38150  N   ALA E  62     163.195 134.331   2.697  1.00 37.94      ES5
ATOM  38151  CA  ALA E  62     161.889 133.745   2.939  1.00 37.94      ES5
ATOM  38152  CB  ALA E  62     161.968 132.748   4.085  1.00 99.91      ES5
ATOM  38153  C   ALA E  62     160.887 134.843   3.258  1.00 37.94      ES5
ATOM  38154  O   ALA E  62     159.780 134.880   2.714  1.00 37.94      ES5
ATOM  38155  N   ARG E  63     161.311 135.754   4.126  1.00 47.63      ES5
ATOM  38156  CA  ARG E  63     160.481 136.859   4.570  1.00 47.63      ES5
ATOM  38157  CB  ARG E  63     161.248 137.684   5.593  1.00 74.59      ES5
ATOM  38158  CG  ARG E  63     160.357 138.311   6.620  1.00 74.59      ES5
ATOM  38159  CD  ARG E  63     161.048 138.303   7.955  1.00 74.59      ES5
ATOM  38160  NE  ARG E  63     161.680 137.015   8.202  1.00 74.59      ES5
ATOM  38161  CZ  ARG E  63     162.136 136.625   9.385  1.00 74.59      ES5
ATOM  38162  NH1 ARG E  63     162.029 137.423  10.440  1.00 74.59      ES5
ATOM  38163  NH2 ARG E  63     162.711 135.440   9.514  1.00 74.59      ES5
ATOM  38164  C   ARG E  63     160.018 137.754   3.439  1.00 47.63      ES5
ATOM  38165  O   ARG E  63     159.003 138.434   3.558  1.00 47.63      ES5
ATOM  38166  N   ARG E  64     160.751 137.732   2.334  1.00 53.90      ES5
ATOM  38167  CA  ARG E  64     160.436 138.576   1.195  1.00 53.90      ES5
ATOM  38168  CB  ARG E  64     161.714 139.261   0.742  1.00 82.12      ES5
ATOM  38169  CG  ARG E  64     162.587 139.601   1.929  1.00 82.12      ES5
ATOM  38170  CD  ARG E  64     163.464 140.787   1.663  1.00 82.12      ES5
ATOM  38171  NE  ARG E  64     163.826 141.441   2.912  1.00 82.12      ES5
ATOM  38172  CZ  ARG E  64     164.425 142.622   2.979  1.00 82.12      ES5
ATOM  38173  NH1 ARG E  64     164.728 143.271   1.862  1.00 82.12      ES5
ATOM  38174  NH2 ARG E  64     164.715 143.155   4.160  1.00 82.12      ES5
ATOM  38175  C   ARG E  64     159.791 137.819   0.046  1.00 53.90      ES5
ATOM  38176  O   ARG E  64     159.689 138.324  -1.076  1.00 53.90      ES5
ATOM  38177  N   ASN E  65     159.352 136.601   0.332  1.00 79.58      ES5
ATOM  38178  CA  ASN E  65     158.689 135.777  -0.664  1.00 79.58      ES5
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ATOM  38179  CB  ASN E  65     159.650 134.709  -1.180  1.00 81.28       ES5
ATOM  38180  CG  ASN E  65     159.048 133.883  -2.290  1.00 81.28       ES5
ATOM  38181  OD1 ASN E  65     158.461 134.424  -3.227  1.00 81.28       ES5
ATOM  38182  ND2 ASN E  65     159.193 132.563  -2.198  1.00 81.28       ES5
ATOM  38183  C   ASN E  65     157.489 135.136   0.020  1.00 79.58       ES5
ATOM  38184  O   ASN E  65     157.493 133.942   0.311  1.00 79.58       ES5
ATOM  38185  N   MET E  66     156.464 135.940   0.283  1.00 60.09       ES5
ATOM  38186  CA  MET E  66     155.275 135.449   0.967  1.00 60.09       ES5
ATOM  38187  CB  MET E  66     154.745 136.487   1.954  1.00 58.30       ES5
ATOM  38188  CG  MET E  66     155.779 137.089   2.861  1.00 58.30       ES5
ATOM  38189  SD  MET E  66     156.563 135.859   3.864  1.00 58.30       ES5
ATOM  38190  CE  MET E  66     155.489 135.822   5.270  1.00 58.30       ES5
ATOM  38191  C   MET E  66     154.157 135.122   0.012  1.00 60.09       ES5
ATOM  38192  O   MET E  66     154.164 135.545  -1.144  1.00 60.09       ES5
ATOM  38193  N   VAL E  67     153.188 134.369   0.517  1.00 41.05       ES5
ATOM  38194  CA  VAL E  67     152.018 133.992  -0.258  1.00 41.05       ES5
ATOM  38195  CB  VAL E  67     152.153 132.565  -0.849  1.00 52.36       ES5
ATOM  38196  CG1 VAL E  67     150.944 132.226  -1.705  1.00 52.36       ES5
ATOM  38197  CG2 VAL E  67     153.407 132.465  -1.677  1.00 52.36       ES5
ATOM  38198  C   VAL E  67     150.846 134.020   0.720  1.00 41.05       ES5
ATOM  38199  O   VAL E  67     150.974 133.577   1.875  1.00 41.05       ES5
ATOM  38200  N   GLU E  68     149.718 134.563   0.266  1.00 57.49       ES5
ATOM  38201  CA  GLU E  68     148.523 134.635   1.093  1.00 57.49       ES5
ATOM  38202  CB  GLU E  68     147.784 135.952   0.845  1.00159.20       ES5
ATOM  38203  CG  GLU E  68     148.186 137.052   1.814  1.00159.20       ES5
ATOM  38204  CD  GLU E  68     149.691 137.163   1.976  1.00159.20       ES5
ATOM  38205  OE1 GLU E  68     150.367 137.580   1.011  1.00159.20       ES5
ATOM  38206  OE2 GLU E  68     150.200 136.824   3.067  1.00159.20       ES5
ATOM  38207  C   GLU E  68     147.619 133.446   0.807  1.00 57.49       ES5
ATOM  38208  O   GLU E  68     146.855 133.442  -0.154  1.00 57.49       ES5
ATOM  38209  N   VAL E  69     147.722 132.432   1.654  1.00 40.10       ES5
ATOM  38210  CA  VAL E  69     146.936 131.223   1.506  1.00 40.10       ES5
ATOM  38211  CB  VAL E  69     147.540 130.096   2.318  1.00 53.16       ES5
ATOM  38212  CG1 VAL E  69     146.988 128.779   1.832  1.00 53.16       ES5
ATOM  38213  CG2 VAL E  69     149.050 130.141   2.219  1.00 53.16       ES5
ATOM  38214  C   VAL E  69     145.503 131.420   1.977  1.00 40.10       ES5
ATOM  38215  O   VAL E  69     145.263 131.671   3.151  1.00 40.10       ES5
ATOM  38216  N   PRO E  70     144.532 131.292   1.062  1.00 31.23       ES5
ATOM  38217  CD  PRO E  70     144.791 131.086  -0.370  1.00 41.43       ES5
ATOM  38218  CA  PRO E  70     143.094 131.442   1.295  1.00 31.23       ES5
ATOM  38219  CB  PRO E  70     142.501 131.255  -0.100  1.00 41.43       ES5
ATOM  38220  CG  PRO E  70     143.584 131.714  -0.993  1.00 41.43       ES5
ATOM  38221  C   PRO E  70     142.486 130.450   2.279  1.00 31.23       ES5
ATOM  38222  O   PRO E  70     141.515 129.787   1.942  1.00 31.23       ES5
ATOM  38223  N   LEU E  71     143.028 130.359   3.489  1.00 55.97       ES5
ATOM  38224  CA  LEU E  71     142.509 129.420   4.484  1.00 55.97       ES5
ATOM  38225  CB  LEU E  71     143.154 129.664   5.851  1.00 56.40       ES5
ATOM  38226  CG  LEU E  71     144.668 129.543   6.010  1.00 56.40       ES5
ATOM  38227  CD1 LEU E  71     145.059 130.023   7.405  1.00 56.40       ES5
ATOM  38228  CD2 LEU E  71     145.114 128.102   5.776  1.00 56.40       ES5
ATOM  38229  C   LEU E  71     140.998 129.468   4.676  1.00 55.97       ES5
ATOM  38230  O   LEU E  71     140.507 130.257   5.473  1.00 55.97       ES5
ATOM  38231  N   GLN E  72     140.252 128.645   3.946  1.00 38.66       ES5
ATOM  38232  CA  GLN E  72     138.811 128.605   4.144  1.00 38.66       ES5
ATOM  38233  CB  GLN E  72     138.061 128.148   2.888  1.00 79.40       ES5
ATOM  38234  CG  GLN E  72     137.956 129.207   1.799  1.00 79.40       ES5
ATOM  38235  CD  GLN E  72     136.933 128.850   0.724  1.00 79.40       ES5
ATOM  38236  OE1 GLN E  72     136.855 127.703   0.282  1.00 79.40       ES5
ATOM  38237  NE2 GLN E  72     136.151 129.840   0.290  1.00 79.40       ES5
ATOM  38238  C   GLN E  72     138.595 127.602   5.267  1.00 38.66       ES5
ATOM  38239  O   GLN E  72     138.282 126.437   5.033  1.00 38.66       ES5
ATOM  38240  N   ASN E  73     138.808 128.064   6.492  1.00 54.75       ES5
ATOM  38241  CA  ASN E  73     138.621 127.240   7.674  1.00 54.75       ES5
ATOM  38242  CB  ASN E  73     137.176 126.746   7.743  1.00110.00       ES5
ATOM  38243  CG  ASN E  73     136.917 125.862   8.949  1.00110.00       ES5
ATOM  38244  OD1 ASN E  73     135.846 125.274   9.071  1.00110.00       ES5
ATOM  38245  ND2 ASN E  73     137.895 125.769   9.848  1.00110.00       ES5
ATOM  38246  C   ASN E  73     139.552 126.048   7.732  1.00 54.75       ES5
ATOM  38247  O   ASN E  73     139.208 124.968   7.259  1.00 54.75       ES5
ATOM  38248  N   GLY E  74     140.722 126.249   8.331  1.00 46.79       ES5
ATOM  38249  CA  GLY E  74     141.696 125.172   8.465  1.00 46.79       ES5
ATOM  38250  C   GLY E  74     142.195 124.504   7.193  1.00 46.79       ES5
ATOM  38251  O   GLY E  74     143.321 124.028   7.132  1.00 46.79       ES5
ATOM  38252  N   THR E  75     141.355 124.477   6.170  1.00 24.37       ES5
ATOM  38253  CA  THR E  75     141.710 123.857   4.917  1.00 24.37       ES5
ATOM  38254  CB  THR E  75     140.669 122.829   4.511  1.00 42.56       ES5
ATOM  38255  OG1 THR E  75     141.269 121.848   3.664  1.00 42.56       ES5
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ATOM  38256  CG2 THR E  75     139.536 123.506   3.755  1.00 42.56      ES5
ATOM  38257  C   THR E  75     141.836 124.859   3.779  1.00 24.37      ES5
ATOM  38258  O   THR E  75     141.646 126.055   3.933  1.00 24.37      ES5
ATOM  38259  N   ILE E  76     142.137 124.319   2.617  1.00 39.38      ES5
ATOM  38260  CA  ILE E  76     142.333 125.074   1.406  1.00 39.38      ES5
ATOM  38261  CB  ILE E  76     143.424 124.360   0.605  1.00 61.41      ES5
ATOM  38262  CG2 ILE E  76     143.345 124.705  -0.853  1.00 61.41      ES5
ATOM  38263  CG1 ILE E  76     144.772 124.671   1.239  1.00 61.41      ES5
ATOM  38264  CD1 ILE E  76     145.911 123.938   0.613  1.00 61.41      ES5
ATOM  38265  C   ILE E  76     141.035 125.131   0.613  1.00 39.38      ES5
ATOM  38266  O   ILE E  76     140.185 124.256   0.762  1.00 39.38      ES5
ATOM  38267  N   PRO E  77     140.846 126.173  -0.211  1.00 21.67      ES5
ATOM  38268  CD  PRO E  77     141.550 127.452  -0.233  1.00 15.77      ES5
ATOM  38269  CA  PRO E  77     139.624 126.269  -1.008  1.00 21.67      ES5
ATOM  38270  CB  PRO E  77     139.885 127.442  -1.941  1.00 15.77      ES5
ATOM  38271  CG  PRO E  77     141.300 127.874  -1.639  1.00 15.77      ES5
ATOM  38272  C   PRO E  77     139.401 124.989  -1.760  1.00 21.67      ES5
ATOM  38273  O   PRO E  77     138.755 124.092  -1.246  1.00 21.67      ES5
ATOM  38274  N   HIS E  78     139.940 124.887  -2.965  1.00 43.84      ES5
ATOM  38275  CA  HIS E  78     139.783 123.673  -3.766  1.00 43.84      ES5
ATOM  38276  CB  HIS E  78     139.507 124.055  -5.209  1.00 45.73      ES5
ATOM  38277  CG  HIS E  78     140.457 125.081  -5.723  1.00 45.73      ES5
ATOM  38278  CD2 HIS E  78     140.281 126.390  -6.017  1.00 45.73      ES5
ATOM  38279  ND1 HIS E  78     141.805 124.833  -5.856  1.00 45.73      ES5
ATOM  38280  CE1 HIS E  78     142.419 125.949  -6.202  1.00 45.73      ES5
ATOM  38281  NE2 HIS E  78     141.518 126.908  -6.306  1.00 45.73      ES5
ATOM  38282  C   HIS E  78     141.070 122.865  -3.705  1.00 43.84      ES5
ATOM  38283  O   HIS E  78     141.847 122.987  -2.758  1.00 43.84      ES5
ATOM  38284  N   GLU E  79     141.290 122.032  -4.713  1.00 53.59      ES5
ATOM  38285  CA  GLU E  79     142.507 121.245  -4.764  1.00 53.59      ES5
ATOM  38286  CB  GLU E  79     142.191 119.750  -4.811  1.00 89.34      ES5
ATOM  38287  CG  GLU E  79     140.740 119.437  -5.037  1.00 89.34      ES5
ATOM  38288  CD  GLU E  79     140.266 119.874  -6.405  1.00 89.34      ES5
ATOM  38289  OE1 GLU E  79     139.061 119.714  -6.703  1.00 89.34      ES5
ATOM  38290  OE2 GLU E  79     141.097 120.375  -7.190  1.00 89.34      ES5
ATOM  38291  C   GLU E  79     143.293 121.671  -5.994  1.00 53.59      ES5
ATOM  38292  O   GLU E  79     142.715 122.117  -6.980  1.00 53.59      ES5
ATOM  38293  N   ILE E  80     144.615 121.574  -5.914  1.00 42.40      ES5
ATOM  38294  CA  ILE E  80     145.486 121.940  -7.020  1.00 42.40      ES5
ATOM  38295  CB  ILE E  80     146.256 123.285  -6.796  1.00 46.03      ES5
ATOM  38296  CG2 ILE E  80     145.748 124.377  -7.698  1.00 46.03      ES5
ATOM  38297  CG1 ILE E  80     146.177 123.684  -5.340  1.00 46.03      ES5
ATOM  38298  CD1 ILE E  80     146.839 122.698  -4.460  1.00 46.03      ES5
ATOM  38299  C   ILE E  80     146.535 120.867  -7.079  1.00 42.40      ES5
ATOM  38300  O   ILE E  80     146.758 120.156  -6.101  1.00 42.40      ES5
ATOM  38301  N   GLU E  81     147.182 120.783  -8.233  1.00 48.68      ES5
ATOM  38302  CA  GLU E  81     148.248 119.839  -8.497  1.00 48.68      ES5
ATOM  38303  CB  GLU E  81     147.718 118.689  -9.346  1.00162.51      ES5
ATOM  38304  CG  GLU E  81     148.595 117.462  -9.364  1.00162.51      ES5
ATOM  38305  CD  GLU E  81     147.970 116.331 -10.155  1.00162.51      ES5
ATOM  38306  OE1 GLU E  81     147.828 116.474 -11.388  1.00162.51      ES5
ATOM  38307  OE2 GLU E  81     147.612 115.301  -9.546  1.00162.51      ES5
ATOM  38308  C   GLU E  81     149.220 120.696  -9.295  1.00 48.68      ES5
ATOM  38309  O   GLU E  81     148.888 121.170 -10.383  1.00 48.68      ES5
ATOM  38310  N   VAL E  82     150.406 120.923  -8.743  1.00 27.05      ES5
ATOM  38311  CA  VAL E  82     151.412 121.755  -9.400  1.00 27.05      ES5
ATOM  38312  CB  VAL E  82     151.705 123.009  -8.564  1.00 43.28      ES5
ATOM  38313  CG1 VAL E  82     153.117 123.471  -8.786  1.00 43.28      ES5
ATOM  38314  CG2 VAL E  82     150.726 124.109  -8.927  1.00 43.28      ES5
ATOM  38315  C   VAL E  82     152.710 121.016  -9.610  1.00 27.05      ES5
ATOM  38316  O   VAL E  82     153.188 120.336  -8.703  1.00 27.05      ES5
ATOM  38317  N   GLU E  83     153.279 121.162 -10.805  1.00 26.62      ES5
ATOM  38318  CA  GLU E  83     154.548 120.514 -11.149  1.00 26.62      ES5
ATOM  38319  CB  GLU E  83     154.443 119.824 -12.509  1.00138.58      ES5
ATOM  38320  CG  GLU E  83     153.613 118.559 -12.506  1.00138.58      ES5
ATOM  38321  CD  GLU E  83     153.595 117.879 -13.862  1.00138.58      ES5
ATOM  38322  OE1 GLU E  83     154.687 117.641 -14.422  1.00138.58      ES5
ATOM  38323  OE2 GLU E  83     152.491 117.577 -14.366  1.00138.58      ES5
ATOM  38324  C   GLU E  83     155.691 121.526 -11.200  1.00 26.62      ES5
ATOM  38325  O   GLU E  83     155.545 122.600 -11.778  1.00 26.62      ES5
ATOM  38326  N   PHE E  84     156.821 121.197 -10.581  1.00 28.97      ES5
ATOM  38327  CA  PHE E  84     157.983 122.086 -10.607  1.00 28.97      ES5
ATOM  38328  CB  PHE E  84     158.341 122.579  -9.219  1.00 39.73      ES5
ATOM  38329  CG  PHE E  84     159.366 123.670  -9.220  1.00 39.73      ES5
ATOM  38330  CD1 PHE E  84     159.014 124.968  -9.572  1.00 39.73      ES5
ATOM  38331  CD2 PHE E  84     160.678 123.409  -8.844  1.00 39.73      ES5
ATOM  38332  CE1 PHE E  84     159.946 126.002  -9.545  1.00 39.73      ES5
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ATOM  38333  CE2 PHE E  84     161.629 124.440  -8.813  1.00 39.73       ES5
ATOM  38334  CZ  PHE E  84     161.255 125.743  -9.164  1.00 39.73       ES5
ATOM  38335  C   PHE E  84     159.155 121.295 -11.158  1.00 28.97       ES5
ATOM  38336  O   PHE E  84     159.955 120.728 -10.405  1.00 28.97       ES5
ATOM  38337  N   GLY E  85     159.256 121.268 -12.479  1.00 41.25       ES5
ATOM  38338  CA  GLY E  85     160.307 120.500 -13.094  1.00 41.25       ES5
ATOM  38339  C   GLY E  85     159.910 119.053 -12.933  1.00 41.25       ES5
ATOM  38340  O   GLY E  85     158.846 118.633 -13.385  1.00 41.25       ES5
ATOM  38341  N   ALA E  86     160.743 118.279 -12.268  1.00 33.89       ES5
ATOM  38342  CA  ALA E  86     160.417 116.881 -12.093  1.00 33.89       ES5
ATOM  38343  CB  ALA E  86     161.690 116.076 -11.929  1.00184.00       ES5
ATOM  38344  C   ALA E  86     159.502 116.675 -10.894  1.00 33.89       ES5
ATOM  38345  O   ALA E  86     158.887 115.614 -10.747  1.00 33.89       ES5
ATOM  38346  N   SER E  87     159.404 117.693 -10.048  1.00 28.50       ES5
ATOM  38347  CA  SER E  87     158.581 117.605  -8.853  1.00 28.50       ES5
ATOM  38348  CB  SER E  87     159.159 118.523  -7.793  1.00 35.67       ES5
ATOM  38349  OG  SER E  87     160.500 118.174  -7.548  1.00 35.67       ES5
ATOM  38350  C   SER E  87     157.092 117.917  -9.057  1.00 28.50       ES5
ATOM  38351  O   SER E  87     156.727 118.906  -9.702  1.00 28.50       ES5
ATOM  38352  N   LYS E  88     156.234 117.073  -8.493  1.00 29.47       ES5
ATOM  38353  CA  LYS E  88     154.799 117.258  -8.611  1.00 29.47       ES5
ATOM  38354  CB  LYS E  88     154.208 116.187  -9.511  1.00 39.01       ES5
ATOM  38355  CG  LYS E  88     152.732 116.325  -9.756  1.00 39.01       ES5
ATOM  38356  CD  LYS E  88     152.287 115.258 -10.744  1.00 39.01       ES5
ATOM  38357  CE  LYS E  88     151.032 115.678 -11.522  1.00 39.01       ES5
ATOM  38358  NZ  LYS E  88     150.624 114.704 -12.590  1.00 39.01       ES5
ATOM  38359  C   LYS E  88     154.183 117.142  -7.235  1.00 29.47       ES5
ATOM  38360  O   LYS E  88     154.379 116.137  -6.546  1.00 29.47       ES5
ATOM  38361  N   ILE E  89     153.441 118.169  -6.826  1.00 17.68       ES5
ATOM  38362  CA  ILE E  89     152.791 118.151  -5.518  1.00 17.68       ES5
ATOM  38363  CB  ILE E  89     153.306 119.318  -4.591  1.00 18.09       ES5
ATOM  38364  CG2 ILE E  89     152.436 120.559  -4.725  1.00 18.09       ES5
ATOM  38365  CG1 ILE E  89     153.358 118.848  -3.134  1.00 18.09       ES5
ATOM  38366  CD1 ILE E  89     152.169 118.042  -2.691  1.00 18.09       ES5
ATOM  38367  C   ILE E  89     151.283 118.236  -5.684  1.00 17.68       ES5
ATOM  38368  O   ILE E  89     150.760 119.016  -6.472  1.00 17.68       ES5
ATOM  38369  N   VAL E  90     150.585 117.396  -4.951  1.00 17.57       ES5
ATOM  38370  CA  VAL E  90     149.152 117.407  -5.029  1.00 17.57       ES5
ATOM  38371  CB  VAL E  90     148.606 116.059  -5.421  1.00 41.80       ES5
ATOM  38372  CG1 VAL E  90     147.133 116.184  -5.710  1.00 41.80       ES5
ATOM  38373  CG2 VAL E  90     149.341 115.547  -6.629  1.00 41.80       ES5
ATOM  38374  C   VAL E  90     148.565 117.786  -3.694  1.00 17.57       ES5
ATOM  38375  O   VAL E  90     148.964 117.259  -2.638  1.00 17.57       ES5
ATOM  38376  N   LEU E  91     147.611 118.710  -3.755  1.00 32.67       ES5
ATOM  38377  CA  LEU E  91     146.932 119.192  -2.574  1.00 32.67       ES5
ATOM  38378  CB  LEU E  91     147.241 120.663  -2.355  1.00 14.77       ES5
ATOM  38379  CG  LEU E  91     148.716 121.053  -2.407  1.00 14.77       ES5
ATOM  38380  CD1 LEU E  91     148.861 122.543  -2.053  1.00 14.77       ES5
ATOM  38381  CD2 LEU E  91     149.499 120.173  -1.444  1.00 14.77       ES5
ATOM  38382  C   LEU E  91     145.442 119.003  -2.734  1.00 32.67       ES5
ATOM  38383  O   LEU E  91     144.852 119.449  -3.716  1.00 32.67       ES5
ATOM  38384  N   LYS E  92     144.858 118.324  -1.751  1.00 20.80       ES5
ATOM  38385  CA  LYS E  92     143.432 118.025  -1.693  1.00 20.80       ES5
ATOM  38386  CB  LYS E  92     143.228 116.514  -1.758  1.00 71.24       ES5
ATOM  38387  CG  LYS E  92     141.834 116.075  -2.137  1.00 71.24       ES5
ATOM  38388  CD  LYS E  92     141.705 114.568  -1.973  1.00 71.24       ES5
ATOM  38389  CE  LYS E  92     140.475 114.008  -2.682  1.00 71.24       ES5
ATOM  38390  NZ  LYS E  92     140.628 114.007  -4.169  1.00 71.24       ES5
ATOM  38391  C   LYS E  92     142.923 118.568  -0.353  1.00 20.80       ES5
ATOM  38392  O   LYS E  92     143.471 118.260   0.718  1.00 20.80       ES5
ATOM  38393  N   PRO E  93     141.872 119.386  -0.390  1.00 26.90       ES5
ATOM  38394  CD  PRO E  93     140.999 119.708  -1.526  1.00 26.47       ES5
ATOM  38395  CA  PRO E  93     141.337 119.946   0.844  1.00 26.90       ES5
ATOM  38396  CB  PRO E  93     140.324 120.961   0.339  1.00 26.47       ES5
ATOM  38397  CG  PRO E  93     139.766 120.268  -0.834  1.00 26.47       ES5
ATOM  38398  C   PRO E  93     140.713 118.879   1.722  1.00 26.90       ES5
ATOM  38399  O   PRO E  93     139.859 118.111   1.277  1.00 26.90       ES5
ATOM  38400  N   ALA E  94     141.155 118.824   2.971  1.00 48.26       ES5
ATOM  38401  CA  ALA E  94     140.631 117.853   3.914  1.00 48.26       ES5
ATOM  38402  CB  ALA E  94     141.762 117.231   4.696  1.00 94.08       ES5
ATOM  38403  C   ALA E  94     139.666 118.548   4.860  1.00 48.26       ES5
ATOM  38404  O   ALA E  94     139.574 119.775   4.864  1.00 48.26       ES5
ATOM  38405  N   ALA E  95     138.954 117.759   5.661  1.00 72.22       ES5
ATOM  38406  CA  ALA E  95     137.994 118.296   6.619  1.00 72.22       ES5
ATOM  38407  CB  ALA E  95     136.717 117.510   6.556  1.00  6.95       ES5
ATOM  38408  C   ALA E  95     138.553 118.265   8.036  1.00 72.22       ES5
ATOM  38409  O   ALA E  95     139.592 117.662   8.288  1.00 72.22       ES5
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ATOM  38410  N   PRO E  96     137.864 118.919   8.981  1.00 35.07      ES5
ATOM  38411  CD  PRO E  96     136.714 119.801   8.736  1.00 41.42      ES5
ATOM  38412  CA  PRO E  96     138.260 118.994  10.388  1.00 35.07      ES5
ATOM  38413  CB  PRO E  96     137.093 119.723  11.023  1.00 41.42      ES5
ATOM  38414  CG  PRO E  96     136.728 120.675   9.967  1.00 41.42      ES5
ATOM  38415  C   PRO E  96     138.539 117.659  11.052  1.00 35.07      ES5
ATOM  38416  O   PRO E  96     137.750 116.724  10.938  1.00 35.07      ES5
ATOM  38417  N   GLY E  97     139.665 117.584  11.757  1.00 71.74      ES5
ATOM  38418  CA  GLY E  97     140.038 116.355  12.430  1.00 71.74      ES5
ATOM  38419  C   GLY E  97     140.885 115.476  11.533  1.00 71.74      ES5
ATOM  38420  O   GLY E  97     141.289 114.376  11.918  1.00 71.74      ES5
ATOM  38421  N   THR E  98     141.154 115.962  10.327  1.00 37.49      ES5
ATOM  38422  CA  THR E  98     141.958 115.212   9.373  1.00 37.49      ES5
ATOM  38423  CB  THR E  98     141.713 115.688   7.919  1.00 35.05      ES5
ATOM  38424  OG1 THR E  98     140.389 115.320   7.496  1.00 35.05      ES5
ATOM  38425  CG2 THR E  98     142.720 115.053   6.993  1.00 35.05      ES5
ATOM  38426  C   THR E  98     143.428 115.392   9.708  1.00 37.49      ES5
ATOM  38427  O   THR E  98     144.209 114.437   9.696  1.00 37.49      ES5
ATOM  38428  N   GLY E  99     143.793 116.628  10.019  1.00 57.83      ES5
ATOM  38429  CA  GLY E  99     145.170 116.926  10.347  1.00 57.83      ES5
ATOM  38430  C   GLY E  99     145.925 117.280   9.088  1.00 57.83      ES5
ATOM  38431  O   GLY E  99     145.333 117.388   8.002  1.00 57.83      ES5
ATOM  38432  N   VAL E 100     147.233 117.469   9.219  1.00 37.13      ES5
ATOM  38433  CA  VAL E 100     148.025 117.805   8.049  1.00 37.13      ES5
ATOM  38434  CB  VAL E 100     149.074 118.863   8.355  1.00 58.30      ES5
ATOM  38435  CG1 VAL E 100     149.335 119.687   7.110  1.00 58.30      ES5
ATOM  38436  CG2 VAL E 100     148.612 119.731   9.513  1.00 58.30      ES5
ATOM  38437  C   VAL E 100     148.733 116.568   7.557  1.00 37.13      ES5
ATOM  38438  O   VAL E 100     149.856 116.290   7.959  1.00 37.13      ES5
ATOM  38439  N   ILE E 101     148.055 115.818   6.699  1.00 33.11      ES5
ATOM  38440  CA  ILE E 101     148.615 114.609   6.125  1.00 33.11      ES5
ATOM  38441  CB  ILE E 101     147.502 113.713   5.606  1.00 30.25      ES5
ATOM  38442  CG2 ILE E 101     148.030 112.796   4.544  1.00 30.25      ES5
ATOM  38443  CG1 ILE E 101     146.933 112.899   6.756  1.00 30.25      ES5
ATOM  38444  CD1 ILE E 101     146.349 113.730   7.841  1.00 30.25      ES5
ATOM  38445  C   ILE E 101     149.547 115.008   4.980  1.00 33.11      ES5
ATOM  38446  O   ILE E 101     149.104 115.368   3.884  1.00 33.11      ES5
ATOM  38447  N   ALA E 102     150.847 114.938   5.230  1.00 15.74      ES5
ATOM  38448  CA  ALA E 102     151.784 115.348   4.215  1.00 15.74      ES5
ATOM  38449  CB  ALA E 102     151.617 116.833   3.975  1.00  2.30      ES5
ATOM  38450  C   ALA E 102     153.231 115.042   4.580  1.00 15.74      ES5
ATOM  38451  O   ALA E 102     153.578 114.901   5.751  1.00 15.74      ES5
ATOM  38452  N   GLY E 103     154.076 114.948   3.558  1.00 36.30      ES5
ATOM  38453  CA  GLY E 103     155.478 114.681   3.795  1.00 36.30      ES5
ATOM  38454  C   GLY E 103     156.143 115.868   4.461  1.00 36.30      ES5
ATOM  38455  O   GLY E 103     155.767 117.019   4.234  1.00 36.30      ES5
ATOM  38456  N   ALA E 104     157.145 115.580   5.279  1.00 43.62      ES5
ATOM  38457  CA  ALA E 104     157.896 116.597   6.019  1.00 43.62      ES5
ATOM  38458  CB  ALA E 104     159.243 116.020   6.432  1.00184.40      ES5
ATOM  38459  C   ALA E 104     158.108 117.973   5.373  1.00 43.62      ES5
ATOM  38460  O   ALA E 104     158.134 118.975   6.080  1.00 43.62      ES5
ATOM  38461  N   VAL E 105     158.269 118.042   4.054  1.00 22.62      ES5
ATOM  38462  CA  VAL E 105     158.491 119.345   3.428  1.00 22.62      ES5
ATOM  38463  CB  VAL E 105     159.299 119.245   2.107  1.00 15.89      ES5
ATOM  38464  CG1 VAL E 105     159.014 120.440   1.219  1.00 15.89      ES5
ATOM  38465  CG2 VAL E 105     160.780 119.228   2.417  1.00 15.89      ES5
ATOM  38466  C   VAL E 105     157.220 120.116   3.171  1.00 22.62      ES5
ATOM  38467  O   VAL E 105     157.108 121.250   3.594  1.00 22.62      ES5
ATOM  38468  N   PRO E 106     156.247 119.525   2.466  1.00 30.06      ES5
ATOM  38469  CD  PRO E 106     156.220 118.199   1.838  1.00 27.64      ES5
ATOM  38470  CA  PRO E 106     154.999 120.248   2.202  1.00 30.06      ES5
ATOM  38471  CB  PRO E 106     154.156 119.219   1.461  1.00 27.64      ES5
ATOM  38472  CG  PRO E 106     155.151 118.373   0.800  1.00 27.64      ES5
ATOM  38473  C   PRO E 106     154.363 120.630   3.537  1.00 30.06      ES5
ATOM  38474  O   PRO E 106     153.737 121.693   3.683  1.00 30.06      ES5
ATOM  38475  N   ARG E 107     154.524 119.742   4.514  1.00 34.48      ES5
ATOM  38476  CA  ARG E 107     153.968 119.988   5.827  1.00 34.48      ES5
ATOM  38477  CB  ARG E 107     154.378 118.904   6.809  1.00 58.34      ES5
ATOM  38478  CG  ARG E 107     154.076 119.286   8.230  1.00 58.34      ES5
ATOM  38479  CD  ARG E 107     154.258 118.118   9.132  1.00 58.34      ES5
ATOM  38480  NE  ARG E 107     153.229 117.118   8.897  1.00 58.34      ES5
ATOM  38481  CZ  ARG E 107     153.464 115.813   8.902  1.00 58.34      ES5
ATOM  38482  NH1 ARG E 107     154.693 115.360   9.122  1.00 58.34      ES5
ATOM  38483  NH2 ARG E 107     152.472 114.960   8.708  1.00 58.34      ES5
ATOM  38484  C   ARG E 107     154.443 121.326   6.332  1.00 34.48      ES5
ATOM  38485  O   ARG E 107     153.740 122.314   6.192  1.00 34.48      ES5
ATOM  38486  N   ALA E 108     155.639 121.355   6.909  1.00 33.96      ES5
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ATOM  38487  CA  ALA E 108     156.208 122.589   7.441  1.00 33.96      ES5
ATOM  38488  CB  ALA E 108     157.710 122.541   7.350  1.00 30.77      ES5
ATOM  38489  C   ALA E 108     155.673 123.821   6.715  1.00 33.96      ES5
ATOM  38490  O   ALA E 108     155.230 124.772   7.359  1.00 33.96      ES5
ATOM  38491  N   ILE E 109     155.708 123.800   5.384  1.00 28.60      ES5
ATOM  38492  CA  ILE E 109     155.196 124.911   4.590  1.00 28.60      ES5
ATOM  38493  CB  ILE E 109     155.431 124.686   3.108  1.00 33.87      ES5
ATOM  38494  CG2 ILE E 109     154.684 125.726   2.299  1.00 33.87      ES5
ATOM  38495  CG1 ILE E 109     156.925 124.760   2.826  1.00 33.87      ES5
ATOM  38496  CD1 ILE E 109     157.271 124.554   1.372  1.00 33.87      ES5
ATOM  38497  C   ILE E 109     153.697 125.083   4.820  1.00 28.60      ES5
ATOM  38498  O   ILE E 109     153.218 126.190   5.072  1.00 28.60      ES5
ATOM  38499  N   LEU E 110     152.955 123.988   4.722  1.00 35.02      ES5
ATOM  38500  CA  LEU E 110     151.518 124.025   4.970  1.00 35.02      ES5
ATOM  38501  CB  LEU E 110     150.903 122.678   4.610  1.00 11.86      ES5
ATOM  38502  CG  LEU E 110     150.826 122.538   3.103  1.00 11.86      ES5
ATOM  38503  CD1 LEU E 110     150.321 121.164   2.774  1.00 11.86      ES5
ATOM  38504  CD2 LEU E 110     149.921 123.624   2.524  1.00 11.86      ES5
ATOM  38505  C   LEU E 110     151.215 124.359   6.438  1.00 35.02      ES5
ATOM  38506  O   LEU E 110     150.189 124.967   6.746  1.00 35.02      ES5
ATOM  38507  N   GLU E 111     152.112 123.950   7.337  1.00 41.00      ES5
ATOM  38508  CA  GLU E 111     151.935 124.210   8.752  1.00 41.00      ES5
ATOM  38509  CB  GLU E 111     153.041 123.556   9.582  1.00122.26      ES5
ATOM  38510  CG  GLU E 111     152.842 122.059   9.768  1.00122.26      ES5
ATOM  38511  CD  GLU E 111     153.443 121.530  11.064  1.00122.26      ES5
ATOM  38512  OE1 GLU E 111     154.685 121.558  11.215  1.00122.26      ES5
ATOM  38513  OE2 GLU E 111     152.664 121.087  11.938  1.00122.26      ES5
ATOM  38514  C   GLU E 111     151.901 125.700   8.999  1.00 41.00      ES5
ATOM  38515  O   GLU E 111     150.867 126.224   9.400  1.00 41.00      ES5
ATOM  38516  N   LEU E 112     153.005 126.397   8.743  1.00 19.66      ES5
ATOM  38517  CA  LEU E 112     153.017 127.839   8.964  1.00 19.66      ES5
ATOM  38518  CB  LEU E 112     154.405 128.420   8.789  1.00 18.45      ES5
ATOM  38519  CG  LEU E 112     155.559 127.537   9.229  1.00 18.45      ES5
ATOM  38520  CD1 LEU E 112     156.761 128.431   9.431  1.00 18.45      ES5
ATOM  38521  CD2 LEU E 112     155.238 126.791  10.509  1.00 18.45      ES5
ATOM  38522  C   LEU E 112     152.085 128.476   7.962  1.00 19.66      ES5
ATOM  38523  O   LEU E 112     151.829 129.674   7.998  1.00 19.66      ES5
ATOM  38524  N   ALA E 113     151.574 127.676   7.044  1.00 53.44      ES5
ATOM  38525  CA  ALA E 113     150.654 128.227   6.077  1.00 53.44      ES5
ATOM  38526  CB  ALA E 113     150.300 127.179   5.032  1.00146.07      ES5
ATOM  38527  C   ALA E 113     149.414 128.655   6.840  1.00 53.44      ES5
ATOM  38528  O   ALA E 113     148.578 129.403   6.342  1.00 53.44      ES5
ATOM  38529  N   GLY E 114     149.321 128.199   8.078  1.00 36.94      ES5
ATOM  38530  CA  GLY E 114     148.149 128.502   8.853  1.00 36.94      ES5
ATOM  38531  C   GLY E 114     147.166 127.424   8.442  1.00 36.94      ES5
ATOM  38532  O   GLY E 114     145.987 127.455   8.787  1.00 36.94      ES5
ATOM  38533  N   VAL E 115     147.648 126.460   7.671  1.00 40.16      ES5
ATOM  38534  CA  VAL E 115     146.787 125.374   7.253  1.00 40.16      ES5
ATOM  38535  CB  VAL E 115     147.302 124.670   6.004  1.00  6.31      ES5
ATOM  38536  CG1 VAL E 115     146.700 123.282   5.932  1.00  6.31      ES5
ATOM  38537  CG2 VAL E 115     146.908 125.464   4.764  1.00  6.31      ES5
ATOM  38538  C   VAL E 115     146.726 124.367   8.377  1.00 40.16      ES5
ATOM  38539  O   VAL E 115     147.679 124.192   9.128  1.00 40.16      ES5
ATOM  38540  N   THR E 116     145.600 123.690   8.486  1.00 48.72      ES5
ATOM  38541  CA  THR E 116     145.444 122.728   9.543  1.00 48.72      ES5
ATOM  38542  CB  THR E 116     144.428 123.248  10.561  1.00 35.96      ES5
ATOM  38543  OG1 THR E 116     144.736 122.721  11.854  1.00 35.96      ES5
ATOM  38544  CG2 THR E 116     143.020 122.828  10.166  1.00 35.96      ES5
ATOM  38545  C   THR E 116     145.008 121.359   9.027  1.00 48.72      ES5
ATOM  38546  O   THR E 116     145.429 120.338   9.560  1.00 48.72      ES5
ATOM  38547  N   ASP E 117     144.169 121.327   7.996  1.00 29.64      ES5
ATOM  38548  CA  ASP E 117     143.704 120.054   7.463  1.00 29.64      ES5
ATOM  38549  CB  ASP E 117     142.267 119.795   7.895  1.00 68.14      ES5
ATOM  38550  CG  ASP E 117     142.115 119.731   9.390  1.00 68.14      ES5
ATOM  38551  OD1 ASP E 117     141.037 119.319   9.854  1.00 68.14      ES5
ATOM  38552  OD2 ASP E 117     143.061 120.093  10.110  1.00 68.14      ES5
ATOM  38553  C   ASP E 117     143.765 119.915   5.953  1.00 29.64      ES5
ATOM  38554  O   ASP E 117     143.030 120.605   5.245  1.00 29.64      ES5
ATOM  38555  N   ILE E 118     144.647 119.032   5.472  1.00 38.71      ES5
ATOM  38556  CA  ILE E 118     144.758 118.740   4.038  1.00 38.71      ES5
ATOM  38557  CB  ILE E 118     145.657 119.698   3.230  1.00 32.36      ES5
ATOM  38558  CG2 ILE E 118     144.822 120.479   2.254  1.00 32.36      ES5
ATOM  38559  CG1 ILE E 118     146.497 120.571   4.138  1.00 32.36      ES5
ATOM  38560  CD1 ILE E 118     147.349 121.518   3.339  1.00 32.36      ES5
ATOM  38561  C   ILE E 118     145.327 117.382   3.727  1.00 38.71      ES5
ATOM  38562  O   ILE E 118     146.048 116.779   4.537  1.00 38.71      ES5
ATOM  38563  N   LEU E 119     144.984 116.929   2.522  1.00 36.83      ES5
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ATOM  38564  CA  LEU E 119     145.457 115.669   1.969  1.00 36.83      ES5
ATOM  38565  CB  LEU E 119     144.319 114.913   1.291  1.00 43.31      ES5
ATOM  38566  CG  LEU E 119     143.266 114.478   2.311  1.00 43.31      ES5
ATOM  38567  CD1 LEU E 119     142.094 113.812   1.608  1.00 43.31      ES5
ATOM  38568  CD2 LEU E 119     143.913 113.543   3.331  1.00 43.31      ES5
ATOM  38569  C   LEU E 119     146.509 116.108   0.958  1.00 36.83      ES5
ATOM  38570  O   LEU E 119     146.289 117.027   0.158  1.00 36.83      ES5
ATOM  38571  N   THR E 120     147.651 115.435   1.007  1.00 41.78      ES5
ATOM  38572  CA  THR E 120     148.804 115.772   0.197  1.00 41.78      ES5
ATOM  38573  CB  THR E 120     149.843 116.313   1.147  1.00 21.18      ES5
ATOM  38574  OG1 THR E 120     149.907 117.727   0.986  1.00 21.18      ES5
ATOM  38575  CG2 THR E 120     151.200 115.638   0.954  1.00 21.18      ES5
ATOM  38576  C   THR E 120     149.373 114.606  -0.582  1.00 41.78      ES5
ATOM  38577  O   THR E 120     148.952 113.475  -0.397  1.00 41.78      ES5
ATOM  38578  N   LYS E 121     150.338 114.866  -1.454  1.00 32.81      ES5
ATOM  38579  CA  LYS E 121     150.937 113.774  -2.208  1.00 32.81      ES5
ATOM  38580  CB  LYS E 121     149.857 113.085  -3.028  1.00 32.58      ES5
ATOM  38581  CG  LYS E 121     150.319 111.870  -3.794  1.00 32.58      ES5
ATOM  38582  CD  LYS E 121     150.851 110.759  -2.911  1.00 32.58      ES5
ATOM  38583  CE  LYS E 121     152.330 110.919  -2.673  1.00 32.58      ES5
ATOM  38584  NZ  LYS E 121     152.932 109.584  -2.434  1.00 32.58      ES5
ATOM  38585  C   LYS E 121     152.086 114.185  -3.115  1.00 32.81      ES5
ATOM  38586  O   LYS E 121     151.909 114.951  -4.063  1.00 32.81      ES5
ATOM  38587  N   GLU E 122     153.272 113.671  -2.815  1.00 39.35      ES5
ATOM  38588  CA  GLU E 122     154.452 113.967  -3.617  1.00 39.35      ES5
ATOM  38589  CB  GLU E 122     155.711 113.890  -2.765  1.00 54.96      ES5
ATOM  38590  CG  GLU E 122     156.058 115.168  -2.085  1.00 54.96      ES5
ATOM  38591  CD  GLU E 122     157.016 114.964  -0.943  1.00 54.96      ES5
ATOM  38592  OE1 GLU E 122     158.183 114.579  -1.171  1.00 54.96      ES5
ATOM  38593  OE2 GLU E 122     156.591 115.183   0.205  1.00 54.96      ES5
ATOM  38594  C   GLU E 122     154.591 113.000  -4.784  1.00 39.35      ES5
ATOM  38595  O   GLU E 122     154.908 111.823  -4.616  1.00 39.35      ES5
ATOM  38596  N   LEU E 123     154.350 113.494  -5.979  1.00 39.45      ES5
ATOM  38597  CA  LEU E 123     154.489 112.642  -7.128  1.00 39.45      ES5
ATOM  38598  CB  LEU E 123     153.244 112.739  -7.991  1.00 24.53      ES5
ATOM  38599  CG  LEU E 123     152.005 112.259  -7.240  1.00 24.53      ES5
ATOM  38600  CD1 LEU E 123     150.864 112.089  -8.228  1.00 24.53      ES5
ATOM  38601  CD2 LEU E 123     152.295 110.943  -6.533  1.00 24.53      ES5
ATOM  38602  C   LEU E 123     155.715 113.078  -7.899  1.00 39.45      ES5
ATOM  38603  O   LEU E 123     156.085 114.251  -7.870  1.00 39.45      ES5
ATOM  38604  N   GLY E 124     156.357 112.131  -8.573  1.00 43.71      ES5
ATOM  38605  CA  GLY E 124     157.543 112.458  -9.346  1.00 43.71      ES5
ATOM  38606  C   GLY E 124     158.776 112.645  -8.491  1.00 43.71      ES5
ATOM  38607  O   GLY E 124     158.900 112.038  -7.420  1.00 43.71      ES5
ATOM  38608  N   SER E 125     159.698 113.472  -8.973  1.00 37.74      ES5
ATOM  38609  CA  SER E 125     160.920 113.748  -8.231  1.00 37.74      ES5
ATOM  38610  CB  SER E 125     161.752 114.808  -8.938  1.00 41.14      ES5
ATOM  38611  OG  SER E 125     162.722 115.343  -8.050  1.00 41.14      ES5
ATOM  38612  C   SER E 125     160.591 114.259  -6.836  1.00 37.74      ES5
ATOM  38613  O   SER E 125     159.861 115.245  -6.675  1.00 37.74      ES5
ATOM  38614  N   ARG E 126     161.128 113.600  -5.822  1.00 33.79      ES5
ATOM  38615  CA  ARG E 126     160.859 114.051  -4.484  1.00 33.79      ES5
ATOM  38616  CB  ARG E 126     160.503 112.874  -3.592  1.00 46.57      ES5
ATOM  38617  CG  ARG E 126     159.150 112.347  -3.971  1.00 46.57      ES5
ATOM  38618  CD  ARG E 126     158.635 111.276  -3.050  1.00 46.57      ES5
ATOM  38619  NE  ARG E 126     157.525 110.602  -3.716  1.00 46.57      ES5
ATOM  38620  CZ  ARG E 126     157.062 109.412  -3.365  1.00 46.57      ES5
ATOM  38621  NH1 ARG E 126     157.623 108.773  -2.342  1.00 46.57      ES5
ATOM  38622  NH2 ARG E 126     156.067 108.860  -4.054  1.00 46.57      ES5
ATOM  38623  C   ARG E 126     161.992 114.848  -3.900  1.00 33.79      ES5
ATOM  38624  O   ARG E 126     162.331 114.683  -2.732  1.00 33.79      ES5
ATOM  38625  N   ASN E 127     162.574 115.727  -4.712  1.00 24.68      ES5
ATOM  38626  CA  ASN E 127     163.662 116.566  -4.236  1.00 24.68      ES5
ATOM  38627  CB  ASN E 127     164.405 117.209  -5.395  1.00 79.97      ES5
ATOM  38628  CG  ASN E 127     165.420 118.223  -4.924  1.00 79.97      ES5
ATOM  38629  OD1 ASN E 127     165.074 119.212  -4.268  1.00 79.97      ES5
ATOM  38630  ND2 ASN E 127     166.684 117.981  -5.243  1.00 79.97      ES5
ATOM  38631  C   ASN E 127     163.115 117.670  -3.333  1.00 24.68      ES5
ATOM  38632  O   ASN E 127     162.354 118.537  -3.778  1.00 24.68      ES5
ATOM  38633  N   PRO E 128     163.507 117.667  -2.053  1.00 34.73      ES5
ATOM  38634  CD  PRO E 128     164.553 116.896  -1.373  1.00 30.31      ES5
ATOM  38635  CA  PRO E 128     162.996 118.707  -1.171  1.00 34.73      ES5
ATOM  38636  CB  PRO E 128     163.949 118.650   0.030  1.00 30.31      ES5
ATOM  38637  CG  PRO E 128     165.138 117.942  -0.477  1.00 30.31      ES5
ATOM  38638  C   PRO E 128     162.896 120.086  -1.805  1.00 34.73      ES5
ATOM  38639  O   PRO E 128     161.807 120.656  -1.876  1.00 34.73      ES5
ATOM  38640  N   ILE E 129     164.001 120.626  -2.295  1.00  9.52      ES5
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ATOM  38641  CA  ILE E 129     163.910 121.949  -2.869  1.00  9.52      ES5
ATOM  38642  CB  ILE E 129     165.217 122.362  -3.511  1.00 26.79      ES5
ATOM  38643  CG2 ILE E 129     165.040 123.673  -4.239  1.00 26.79      ES5
ATOM  38644  CG1 ILE E 129     166.282 122.493  -2.420  1.00 26.79      ES5
ATOM  38645  CD1 ILE E 129     167.600 123.091  -2.888  1.00 26.79      ES5
ATOM  38646  C   ILE E 129     162.773 122.074  -3.870  1.00  9.52      ES5
ATOM  38647  O   ILE E 129     161.826 122.831  -3.646  1.00  9.52      ES5
ATOM  38648  N   ASN E 130     162.831 121.331  -4.963  1.00 26.91      ES5
ATOM  38649  CA  ASN E 130     161.763 121.441  -5.942  1.00 26.91      ES5
ATOM  38650  CB  ASN E 130     162.050 120.569  -7.157  1.00 42.12      ES5
ATOM  38651  CG  ASN E 130     163.348 120.927  -7.824  1.00 42.12      ES5
ATOM  38652  OD1 ASN E 130     163.718 122.100  -7.904  1.00 42.12      ES5
ATOM  38653  ND2 ASN E 130     164.048 119.918  -8.321  1.00 42.12      ES5
ATOM  38654  C   ASN E 130     160.392 121.104  -5.366  1.00 26.91      ES5
ATOM  38655  O   ASN E 130     159.374 121.606  -5.840  1.00 26.91      ES5
ATOM  38656  N   ILE E 131     160.341 120.244  -4.358  1.00 30.62      ES5
ATOM  38657  CA  ILE E 131     159.045 119.951  -3.763  1.00 30.62      ES5
ATOM  38658  CB  ILE E 131     159.152 118.836  -2.706  1.00 46.36      ES5
ATOM  38659  CG2 ILE E 131     157.995 118.905  -1.718  1.00 46.36      ES5
ATOM  38660  CG1 ILE E 131     159.162 117.486  -3.414  1.00 46.36      ES5
ATOM  38661  CD1 ILE E 131     157.959 117.275  -4.316  1.00 46.36      ES5
ATOM  38662  C   ILE E 131     158.572 121.258  -3.123  1.00 30.62      ES5
ATOM  38663  O   ILE E 131     157.479 121.760  -3.413  1.00 30.62      ES5
ATOM  38664  N   ALA E 132     159.420 121.818  -2.266  1.00 18.02      ES5
ATOM  38665  CA  ALA E 132     159.118 123.077  -1.613  1.00 18.02      ES5
ATOM  38666  CB  ALA E 132     160.378 123.652  -1.008  1.00  3.92      ES5
ATOM  38667  C   ALA E 132     158.543 124.047  -2.641  1.00 18.02      ES5
ATOM  38668  O   ALA E 132     157.402 124.492  -2.509  1.00 18.02      ES5
ATOM  38669  N   TYR E 133     159.332 124.348  -3.673  1.00 32.45      ES5
ATOM  38670  CA  TYR E 133     158.915 125.275  -4.721  1.00 32.45      ES5
ATOM  38671  CB  TYR E 133     159.968 125.333  -5.823  1.00109.67      ES5
ATOM  38672  CG  TYR E 133     161.238 126.042  -5.412  1.00109.67      ES5
ATOM  38673  CD1 TYR E 133     162.457 125.711  -5.996  1.00109.67      ES5
ATOM  38674  CE1 TYR E 133     163.631 126.362  -5.638  1.00109.67      ES5
ATOM  38675  CD2 TYR E 133     161.223 127.053  -4.451  1.00109.67      ES5
ATOM  38676  CE2 TYR E 133     162.395 127.714  -4.083  1.00109.67      ES5
ATOM  38677  CZ  TYR E 133     163.596 127.359  -4.684  1.00109.67      ES5
ATOM  38678  OH  TYR E 133     164.768 127.995  -4.344  1.00109.67      ES5
ATOM  38679  C   TYR E 133     157.561 124.921  -5.315  1.00 32.45      ES5
ATOM  38680  O   TYR E 133     156.747 125.800  -5.603  1.00 32.45      ES5
ATOM  38681  N   ALA E 134     157.313 123.635  -5.502  1.00 24.32      ES5
ATOM  38682  CA  ALA E 134     156.042 123.229  -6.056  1.00 24.32      ES5
ATOM  38683  CB  ALA E 134     156.016 121.733  -6.263  1.00129.00      ES5
ATOM  38684  C   ALA E 134     154.972 123.643  -5.062  1.00 24.32      ES5
ATOM  38685  O   ALA E 134     154.020 124.332  -5.415  1.00 24.32      ES5
ATOM  38686  N   THR E 135     155.146 123.228  -3.811  1.00 27.82      ES5
ATOM  38687  CA  THR E 135     154.200 123.548  -2.762  1.00 27.82      ES5
ATOM  38688  CB  THR E 135     154.773 123.137  -1.400  1.00 42.70      ES5
ATOM  38689  OG1 THR E 135     154.507 121.749  -1.182  1.00 42.70      ES5
ATOM  38690  CG2 THR E 135     154.153 123.933  -0.287  1.00 42.70      ES5
ATOM  38691  C   THR E 135     153.789 125.025  -2.744  1.00 27.82      ES5
ATOM  38692  O   THR E 135     152.601 125.336  -2.644  1.00 27.82      ES5
ATOM  38693  N   MET E 136     154.759 125.935  -2.839  1.00 41.39      ES5
ATOM  38694  CA  MET E 136     154.458 127.370  -2.840  1.00 41.39      ES5
ATOM  38695  CB  MET E 136     155.731 128.201  -2.927  1.00 51.96      ES5
ATOM  38696  CG  MET E 136     156.589 128.113  -1.703  1.00 51.96      ES5
ATOM  38697  SD  MET E 136     155.679 128.693  -0.277  1.00 51.96      ES5
ATOM  38698  CE  MET E 136     156.045 130.438  -0.318  1.00 51.96      ES5
ATOM  38699  C   MET E 136     153.597 127.694  -4.032  1.00 41.39      ES5
ATOM  38700  O   MET E 136     152.445 128.082  -3.892  1.00 41.39      ES5
ATOM  38701  N   GLU E 137     154.170 127.526  -5.217  1.00 30.70      ES5
ATOM  38702  CA  GLU E 137     153.447 127.806  -6.448  1.00 30.70      ES5
ATOM  38703  CB  GLU E 137     154.194 127.241  -7.648  1.00 70.02      ES5
ATOM  38704  CG  GLU E 137     154.812 128.325  -8.503  1.00 70.02      ES5
ATOM  38705  CD  GLU E 137     153.772 129.314  -8.998  1.00 70.02      ES5
ATOM  38706  OE1 GLU E 137     152.725 128.846  -9.499  1.00 70.02      ES5
ATOM  38707  OE2 GLU E 137     154.003 130.545  -8.892  1.00 70.02      ES5
ATOM  38708  C   GLU E 137     152.075 127.193  -6.352  1.00 30.70      ES5
ATOM  38709  O   GLU E 137     151.105 127.724  -6.883  1.00 30.70      ES5
ATOM  38710  N   ALA E 138     152.009 126.064  -5.662  1.00 32.16      ES5
ATOM  38711  CA  ALA E 138     150.748 125.393  -5.453  1.00 32.16      ES5
ATOM  38712  CB  ALA E 138     150.949 124.171  -4.590  1.00 30.58      ES5
ATOM  38713  C   ALA E 138     149.917 126.430  -4.720  1.00 32.16      ES5
ATOM  38714  O   ALA E 138     149.140 127.164  -5.331  1.00 32.16      ES5
ATOM  38715  N   LEU E 139     150.103 126.505  -3.409  1.00 50.32      ES5
ATOM  38716  CA  LEU E 139     149.382 127.472  -2.612  1.00 50.32      ES5
ATOM  38717  CB  LEU E 139     150.253 127.920  -1.448  1.00  8.24      ES5
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ATOM  38718  CG  LEU E 139     150.488 126.783  -0.458  1.00  8.24      ES5
ATOM  38719  CD1 LEU E 139     151.570 127.128   0.537  1.00  8.24      ES5
ATOM  38720  CD2 LEU E 139     149.168 126.501   0.242  1.00  8.24      ES5
ATOM  38721  C   LEU E 139     148.978 128.660  -3.476  1.00 50.32      ES5
ATOM  38722  O   LEU E 139     147.799 128.841  -3.736  1.00 50.32      ES5
ATOM  38723  N   ARG E 140     149.945 129.439  -3.957  1.00 43.32      ES5
ATOM  38724  CA  ARG E 140     149.640 130.596  -4.799  1.00 43.32      ES5
ATOM  38725  CB  ARG E 140     150.748 130.874  -5.797  1.00 44.02      ES5
ATOM  38726  CG  ARG E 140     151.958 131.490  -5.210  1.00 44.02      ES5
ATOM  38727  CD  ARG E 140     152.718 132.313  -6.230  1.00 44.02      ES5
ATOM  38728  NE  ARG E 140     153.947 132.812  -5.627  1.00 44.02      ES5
ATOM  38729  CZ  ARG E 140     154.984 132.038  -5.329  1.00 44.02      ES5
ATOM  38730  NH1 ARG E 140     154.928 130.741  -5.601  1.00 44.02      ES5
ATOM  38731  NH2 ARG E 140     156.059 132.544  -4.731  1.00 44.02      ES5
ATOM  38732  C   ARG E 140     148.370 130.481  -5.610  1.00 43.32      ES5
ATOM  38733  O   ARG E 140     147.389 131.174  -5.353  1.00 43.32      ES5
ATOM  38734  N   GLN E 141     148.397 129.604  -6.602  1.00 20.60      ES5
ATOM  38735  CA  GLN E 141     147.255 129.429  -7.483  1.00 20.60      ES5
ATOM  38736  CB  GLN E 141     147.602 128.376  -8.522  1.00 38.55      ES5
ATOM  38737  CG  GLN E 141     148.736 128.838  -9.390  1.00 38.55      ES5
ATOM  38738  CD  GLN E 141     149.307 127.749 -10.239  1.00 38.55      ES5
ATOM  38739  OE1 GLN E 141     148.598 127.131 -11.031  1.00 38.55      ES5
ATOM  38740  NE2 GLN E 141     150.605 127.503 -10.088  1.00 38.55      ES5
ATOM  38741  C   GLN E 141     145.891 129.138  -6.844  1.00 20.60      ES5
ATOM  38742  O   GLN E 141     144.866 129.163  -7.532  1.00 20.60      ES5
ATOM  38743  N   LEU E 142     145.865 128.864  -5.544  1.00 20.26      ES5
ATOM  38744  CA  LEU E 142     144.602 128.616  -4.861  1.00 20.26      ES5
ATOM  38745  CB  LEU E 142     144.840 128.392  -3.374  1.00 31.52      ES5
ATOM  38746  CG  LEU E 142     145.537 127.085  -3.037  1.00 31.52      ES5
ATOM  38747  CD1 LEU E 142     145.864 127.017  -1.550  1.00 31.52      ES5
ATOM  38748  CD2 LEU E 142     144.628 125.954  -3.465  1.00 31.52      ES5
ATOM  38749  C   LEU E 142     143.715 129.838  -5.035  1.00 20.26      ES5
ATOM  38750  O   LEU E 142     144.184 130.969  -4.893  1.00 20.26      ES5
ATOM  38751  N   ARG E 143     142.437 129.610  -5.323  1.00 25.71      ES5
ATOM  38752  CA  ARG E 143     141.507 130.709  -5.517  1.00 25.71      ES5
ATOM  38753  CB  ARG E 143     141.207 130.889  -7.002  1.00 41.76      ES5
ATOM  38754  CG  ARG E 143     142.411 131.316  -7.795  1.00 41.76      ES5
ATOM  38755  CD  ARG E 143     142.948 132.626  -7.261  1.00 41.76      ES5
ATOM  38756  NE  ARG E 143     144.408 132.682  -7.288  1.00 41.76      ES5
ATOM  38757  CZ  ARG E 143     145.141 132.687  -8.396  1.00 41.76      ES5
ATOM  38758  NH1 ARG E 143     144.546 132.638  -9.585  1.00 41.76      ES5
ATOM  38759  NH2 ARG E 143     146.466 132.743  -8.308  1.00 41.76      ES5
ATOM  38760  C   ARG E 143     140.204 130.528  -4.766  1.00 25.71      ES5
ATOM  38761  O   ARG E 143     139.683 129.412  -4.670  1.00 25.71      ES5
ATOM  38762  N   THR E 144     139.685 131.644  -4.246  1.00 28.42      ES5
ATOM  38763  CA  THR E 144     138.430 131.682  -3.499  1.00 28.42      ES5
ATOM  38764  CB  THR E 144     138.371 132.908  -2.569  1.00140.22      ES5
ATOM  38765  OG1 THR E 144     139.520 132.919  -1.716  1.00140.22      ES5
ATOM  38766  CG2 THR E 144     137.104 132.879  -1.727  1.00140.22      ES5
ATOM  38767  C   THR E 144     137.274 131.793  -4.477  1.00 28.42      ES5
ATOM  38768  O   THR E 144     137.446 132.285  -5.593  1.00 28.42      ES5
ATOM  38769  N   LYS E 145     136.095 131.339  -4.060  1.00 46.19      ES5
ATOM  38770  CA  LYS E 145     134.916 131.418  -4.919  1.00 46.19      ES5
ATOM  38771  CB  LYS E 145     133.672 130.953  -4.169  1.00 79.62      ES5
ATOM  38772  CG  LYS E 145     132.375 131.207  -4.922  1.00 79.62      ES5
ATOM  38773  CD  LYS E 145     132.309 130.466  -6.254  1.00 79.62      ES5
ATOM  38774  CE  LYS E 145     130.994 130.762  -6.980  1.00 79.62      ES5
ATOM  38775  NZ  LYS E 145     130.838 130.036  -8.275  1.00 79.62      ES5
ATOM  38776  C   LYS E 145     134.734 132.862  -5.354  1.00 46.19      ES5
ATOM  38777  O   LYS E 145     134.225 133.148  -6.439  1.00 46.19      ES5
ATOM  38778  N   ALA E 146     135.166 133.765  -4.483  1.00 30.43      ES5
ATOM  38779  CA  ALA E 146     135.081 135.187  -4.737  1.00 30.43      ES5
ATOM  38780  CB  ALA E 146     135.679 135.939  -3.582  1.00 46.47      ES5
ATOM  38781  C   ALA E 146     135.819 135.543  -6.017  1.00 30.43      ES5
ATOM  38782  O   ALA E 146     135.196 135.847  -7.037  1.00 30.43      ES5
ATOM  38783  N   ASP E 147     137.154 135.498  -5.949  1.00 36.72      ES5
ATOM  38784  CA  ASP E 147     138.025 135.832  -7.080  1.00 36.72      ES5
ATOM  38785  CB  ASP E 147     139.484 135.453  -6.799  1.00 61.21      ES5
ATOM  38786  CG  ASP E 147     139.690 134.860  -5.419  1.00 61.21      ES5
ATOM  38787  OD1 ASP E 147     140.836 134.921  -4.920  1.00 61.21      ES5
ATOM  38788  OD2 ASP E 147     138.728 134.323  -4.835  1.00 61.21      ES5
ATOM  38789  C   ASP E 147     137.575 135.155  -8.347  1.00 36.72      ES5
ATOM  38790  O   ASP E 147     137.659 135.719  -9.429  1.00 36.72      ES5
ATOM  38791  N   VAL E 148     137.097 133.932  -8.205  1.00 22.08      ES5
ATOM  38792  CA  VAL E 148     136.633 133.197  -9.358  1.00 22.08      ES5
ATOM  38793  CB  VAL E 148     136.227 131.781  -8.980  1.00 37.24      ES5
ATOM  38794  CG1 VAL E 148     135.945 130.972 -10.244  1.00 37.24      ES5
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ATOM  38795  CG2 VAL E 148     137.309 131.150  -8.125  1.00 37.24       ES5
ATOM  38796  C   VAL E 148     135.404 133.913  -9.860  1.00 22.08       ES5
ATOM  38797  O   VAL E 148     135.200 134.066 -11.070  1.00 22.08       ES5
ATOM  38798  N   GLU E 149     134.584 134.332  -8.899  1.00 26.94       ES5
ATOM  38799  CA  GLU E 149     133.336 135.036  -9.162  1.00 26.94       ES5
ATOM  38800  CB  GLU E 149     132.600 135.270  -7.839  1.00201.23       ES5
ATOM  38801  CG  GLU E 149     131.247 135.943  -7.948  1.00201.23       ES5
ATOM  38802  CD  GLU E 149     130.635 136.213  -6.584  1.00201.23       ES5
ATOM  38803  OE1 GLU E 149     131.237 136.982  -5.805  1.00201.23       ES5
ATOM  38804  OE2 GLU E 149     129.558 135.655  -6.289  1.00201.23       ES5
ATOM  38805  C   GLU E 149     133.695 136.351  -9.810  1.00 26.94       ES5
ATOM  38806  O   GLU E 149     133.133 136.725 -10.837  1.00 26.94       ES5
ATOM  38807  N   ARG E 150     134.657 137.033  -9.195  1.00 38.72       ES5
ATOM  38808  CA  ARG E 150     135.154 138.318  -9.671  1.00 38.72       ES5
ATOM  38809  CB  ARG E 150     136.250 138.829  -8.734  1.00159.09       ES5
ATOM  38810  CG  ARG E 150     135.749 139.303  -7.383  1.00159.09       ES5
ATOM  38811  CD  ARG E 150     135.079 140.668  -7.472  1.00159.09       ES5
ATOM  38812  NE  ARG E 150     136.036 141.746  -7.726  1.00159.09       ES5
ATOM  38813  CZ  ARG E 150     136.573 142.025  -8.911  1.00159.09       ES5
ATOM  38814  NH1 ARG E 150     136.253 141.309  -9.980  1.00159.09       ES5
ATOM  38815  NH2 ARG E 150     137.436 143.025  -9.028  1.00159.09       ES5
ATOM  38816  C   ARG E 150     135.717 138.163 -11.073  1.00 38.72       ES5
ATOM  38817  O   ARG E 150     135.427 138.953 -11.962  1.00 38.72       ES5
ATOM  38818  N   LEU E 151     136.518 137.122 -11.261  1.00 40.86       ES5
ATOM  38819  CA  LEU E 151     137.144 136.858 -12.543  1.00 40.86       ES5
ATOM  38820  CB  LEU E 151     138.000 135.602 -12.464  1.00 47.72       ES5
ATOM  38821  CG  LEU E 151     139.493 135.881 -12.515  1.00 47.72       ES5
ATOM  38822  CD1 LEU E 151     140.225 134.596 -12.857  1.00 47.72       ES5
ATOM  38823  CD2 LEU E 151     139.774 136.943 -13.567  1.00 47.72       ES5
ATOM  38824  C   LEU E 151     136.185 136.718 -13.702  1.00 40.86       ES5
ATOM  38825  O   LEU E 151     136.544 137.016 -14.840  1.00 40.86       ES5
ATOM  38826  N   ARG E 152     134.968 136.269 -13.429  1.00 63.11       ES5
ATOM  38827  CA  ARG E 152     134.014 136.105 -14.506  1.00 63.11       ES5
ATOM  38828  CB  ARG E 152     133.510 134.681 -14.536  1.00 66.85       ES5
ATOM  38829  CG  ARG E 152     134.510 133.670 -14.076  1.00 66.85       ES5
ATOM  38830  CD  ARG E 152     133.852 132.328 -14.135  1.00 66.85       ES5
ATOM  38831  NE  ARG E 152     134.444 131.371 -13.220  1.00 66.85       ES5
ATOM  38832  CZ  ARG E 152     133.884 130.203 -12.938  1.00 66.85       ES5
ATOM  38833  NH1 ARG E 152     132.727 129.876 -13.503  1.00 66.85       ES5
ATOM  38834  NH2 ARG E 152     134.477 129.366 -12.100  1.00 66.85       ES5
ATOM  38835  C   ARG E 152     132.823 137.049 -14.429  1.00 63.11       ES5
ATOM  38836  O   ARG E 152     131.672 136.602 -14.440  1.00 63.11       ES5
ATOM  38837  N   LYS E 153     133.099 138.350 -14.349  1.00 78.65       ES5
ATOM  38838  CA  LYS E 153     132.049 139.365 -14.305  1.00 78.65       ES5
ATOM  38839  CB  LYS E 153     132.578 140.657 -13.670  1.00159.92       ES5
ATOM  38840  CG  LYS E 153     132.421 140.744 -12.152  1.00159.92       ES5
ATOM  38841  CD  LYS E 153     130.980 141.050 -11.747  1.00159.92       ES5
ATOM  38842  CE  LYS E 153     130.861 141.306 -10.248  1.00159.92       ES5
ATOM  38843  NZ  LYS E 153     129.474 141.671  -9.843  1.00159.92       ES5
ATOM  38844  C   LYS E 153     131.574 139.639 -15.736  1.00 78.65       ES5
ATOM  38845  O   LYS E 153     130.898 138.807 -16.337  1.00 78.65       ES5
ATOM  38846  N   GLY E 154     131.929 140.801 -16.278  1.00201.30       ES5
ATOM  38847  CA  GLY E 154     131.523 141.135 -17.633  1.00201.30       ES5
ATOM  38848  C   GLY E 154     130.287 142.014 -17.704  1.00201.30       ES5
ATOM  38849  O   GLY E 154     129.813 142.468 -16.641  1.00201.30       ES5
ATOM  38850  OXT GLY E 154     129.789 142.256 -18.826  1.00 79.57       ES5
TER   38850       GLY E 154                                              ES5
ATOM  38851  CB  MET F   1     157.246 113.154 -85.136  1.00155.69       FS6
ATOM  38852  CG  MET F   1     157.038 111.804 -85.801  1.00155.69       FS6
ATOM  38853  SD  MET F   1     157.179 111.850 -87.595  1.00155.69       FS6
ATOM  38854  CE  MET F   1     155.492 111.518 -88.084  1.00155.69       FS6
ATOM  38855  C   MET F   1     157.594 114.419 -82.994  1.00146.60       FS6
ATOM  38856  O   MET F   1     156.780 115.341 -82.967  1.00146.60       FS6
ATOM  38857  N   MET F   1     155.885 112.614 -83.151  1.00146.60       FS6
ATOM  38858  CA  MET F   1     157.227 113.071 -83.610  1.00146.60       FS6
ATOM  38859  N   ARG F   2     158.827 114.525 -82.504  1.00 44.65       FS6
ATOM  38860  CA  ARG F   2     159.303 115.743 -81.856  1.00 44.65       FS6
ATOM  38861  CB  ARG F   2     159.728 115.436 -80.419  1.00 99.63       FS6
ATOM  38862  CG  ARG F   2     158.818 114.467 -79.690  1.00 99.63       FS6
ATOM  38863  CD  ARG F   2     159.476 113.942 -78.430  1.00 99.63       FS6
ATOM  38864  NE  ARG F   2     158.680 112.881 -77.825  1.00 99.63       FS6
ATOM  38865  CZ  ARG F   2     159.082 112.136 -76.803  1.00 99.63       FS6
ATOM  38866  NH1 ARG F   2     160.276 112.339 -76.270  1.00 99.63       FS6
ATOM  38867  NH2 ARG F   2     158.293 111.185 -76.318  1.00 99.63       FS6
ATOM  38868  C   ARG F   2     160.494 116.326 -82.593  1.00 44.65       FS6
ATOM  38869  O   ARG F   2     161.125 115.639 -83.401  1.00 44.65       FS6
ATOM  38870  N   ARG F   3     160.801 117.585 -82.279  1.00 67.68       FS6
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ATOM  38871  CA  ARG F   3     161.916 118.320 -82.879  1.00 67.68       FS6
ATOM  38872  CB  ARG F   3     161.636 119.822 -82.862  1.00183.96       FS6
ATOM  38873  CG  ARG F   3     160.575 120.324 -83.815  1.00183.96       FS6
ATOM  38874  CD  ARG F   3     160.513 121.839 -83.709  1.00183.96       FS6
ATOM  38875  NE  ARG F   3     159.557 122.443 -84.628  1.00183.96       FS6
ATOM  38876  CZ  ARG F   3     159.332 123.750 -84.703  1.00183.96       FS6
ATOM  38877  NH1 ARG F   3     159.996 124.583 -83.911  1.00183.96       FS6
ATOM  38878  NH2 ARG F   3     158.444 124.226 -85.565  1.00183.96       FS6
ATOM  38879  C   ARG F   3     163.257 118.091 -82.173  1.00 67.68       FS6
ATOM  38880  O   ARG F   3     163.342 118.133 -80.942  1.00 67.68       FS6
ATOM  38881  N   TYR F   4     164.305 117.891 -82.973  1.00 65.13       FS6
ATOM  38882  CA  TYR F   4     165.660 117.667 -82.473  1.00 65.13       FS6
ATOM  38883  CB  TYR F   4     166.047 116.204 -82.657  1.00101.95       FS6
ATOM  38884  CG  TYR F   4     165.078 115.227 -82.043  1.00101.95       FS6
ATOM  38885  CD1 TYR F   4     165.051 115.011 -80.668  1.00101.95       FS6
ATOM  38886  CE1 TYR F   4     164.159 114.105 -80.102  1.00101.95       FS6
ATOM  38887  CD2 TYR F   4     164.184 114.514 -82.840  1.00101.95       FS6
ATOM  38888  CE2 TYR F   4     163.287 113.610 -82.284  1.00101.95       FS6
ATOM  38889  CZ  TYR F   4     163.282 113.410 -80.916  1.00101.95       FS6
ATOM  38890  OH  TYR F   4     162.400 112.513 -80.366  1.00101.95       FS6
ATOM  38891  C   TYR F   4     166.656 118.529 -83.245  1.00 65.13       FS6
ATOM  38892  O   TYR F   4     166.298 119.207 -84.196  1.00 65.13       FS6
ATOM  38893  N   GLU F   5     167.910 118.498 -82.824  1.00 77.32       FS6
ATOM  38894  CA  GLU F   5     168.969 119.238 -83.494  1.00 77.32       FS6
ATOM  38895  CB  GLU F   5     169.478 120.372 -82.607  1.00 86.37       FS6
ATOM  38896  CG  GLU F   5     168.513 121.537 -82.486  1.00 86.37       FS6
ATOM  38897  CD  GLU F   5     169.060 122.662 -81.619  1.00 86.37       FS6
ATOM  38898  OE1 GLU F   5     170.207 123.101 -81.855  1.00 86.37       FS6
ATOM  38899  OE2 GLU F   5     168.339 123.113 -80.704  1.00 86.37       FS6
ATOM  38900  C   GLU F   5     170.071 118.217 -83.747  1.00 77.32       FS6
ATOM  38901  O   GLU F   5     170.527 117.550 -82.818  1.00 77.32       FS6
ATOM  38902  N   VAL F   6     170.503 118.086 -84.998  1.00 74.97       FS6
ATOM  38903  CA  VAL F   6     171.517 117.091 -85.312  1.00 74.97       FS6
ATOM  38904  CB  VAL F   6     171.080 116.216 -86.478  1.00 21.56       FS6
ATOM  38905  CG1 VAL F   6     171.888 114.923 -86.482  1.00 21.56       FS6
ATOM  38906  CG2 VAL F   6     169.601 115.938 -86.383  1.00 21.56       FS6
ATOM  38907  C   VAL F   6     172.903 117.596 -85.644  1.00 74.97       FS6
ATOM  38908  O   VAL F   6     173.244 117.739 -86.812  1.00 74.97       FS6
ATOM  38909  N   ASN F   7     173.710 117.847 -84.624  1.00 46.28       FS6
ATOM  38910  CA  ASN F   7     175.068 118.295 -84.862  1.00 46.28       FS6
ATOM  38911  CB  ASN F   7     175.732 118.695 -83.557  1.00 70.05       FS6
ATOM  38912  CG  ASN F   7     175.026 119.832 -82.891  1.00 70.05       FS6
ATOM  38913  OD1 ASN F   7     175.262 120.999 -83.209  1.00 70.05       FS6
ATOM  38914  ND2 ASN F   7     174.127 119.505 -81.971  1.00 70.05       FS6
ATOM  38915  C   ASN F   7     175.822 117.131 -85.467  1.00 46.28       FS6
ATOM  38916  O   ASN F   7     175.632 115.979 -85.067  1.00 46.28       FS6
ATOM  38917  N   ILE F   8     176.666 117.432 -86.443  1.00 81.15       FS6
ATOM  38918  CA  ILE F   8     177.470 116.414 -87.094  1.00 81.15       FS6
ATOM  38919  CB  ILE F   8     176.773 115.844 -88.332  1.00 52.98       FS6
ATOM  38920  CG2 ILE F   8     177.715 114.927 -89.068  1.00 52.98       FS6
ATOM  38921  CG1 ILE F   8     175.527 115.068 -87.907  1.00 52.98       FS6
ATOM  38922  CD1 ILE F   8     174.781 114.411 -89.044  1.00 52.98       FS6
ATOM  38923  C   ILE F   8     178.786 117.033 -87.507  1.00 81.15       FS6
ATOM  38924  O   ILE F   8     178.818 118.109 -88.105  1.00 81.15       FS6
ATOM  38925  N   VAL F   9     179.874 116.353 -87.175  1.00 77.04       FS6
ATOM  38926  CA  VAL F   9     181.198 116.845 -87.507  1.00 77.04       FS6
ATOM  38927  CB  VAL F   9     181.986 117.164 -86.239  1.00 46.11       FS6
ATOM  38928  CG1 VAL F   9     183.166 118.060 -86.581  1.00 46.11       FS6
ATOM  38929  CG2 VAL F   9     181.071 117.819 -85.216  1.00 46.11       FS6
ATOM  38930  C   VAL F   9     181.956 115.794 -88.300  1.00 77.04       FS6
ATOM  38931  O   VAL F   9     182.156 114.682 -87.817  1.00 77.04       FS6
ATOM  38932  N   LEU F  10     182.373 116.136 -89.516  1.00 57.66       FS6
ATOM  38933  CA  LEU F  10     183.103 115.180 -90.338  1.00 57.66       FS6
ATOM  38934  CB  LEU F  10     182.404 114.954 -91.677  1.00 77.45       FS6
ATOM  38935  CG  LEU F  10     180.887 115.048 -91.705  1.00 77.45       FS6
ATOM  38936  CD1 LEU F  10     180.483 116.520 -91.656  1.00 77.45       FS6
ATOM  38937  CD2 LEU F  10     180.361 114.405 -92.974  1.00 77.45       FS6
ATOM  38938  C   LEU F  10     184.521 115.643 -90.605  1.00 57.66       FS6
ATOM  38939  O   LEU F  10     184.924 116.744 -90.210  1.00 57.66       FS6
ATOM  38940  N   ASN F  11     185.269 114.783 -91.286  1.00 72.31       FS6
ATOM  38941  CA  ASN F  11     186.648 115.064 -91.636  1.00 72.31       FS6
ATOM  38942  CB  ASN F  11     187.208 113.930 -92.478  1.00 73.40       FS6
ATOM  38943  CG  ASN F  11     188.684 114.056 -92.679  1.00 73.40       FS6
ATOM  38944  OD1 ASN F  11     189.191 115.146 -92.940  1.00 73.40       FS6
ATOM  38945  ND2 ASN F  11     189.393 112.943 -92.563  1.00 73.40       FS6
ATOM  38946  C   ASN F  11     186.712 116.359 -92.430  1.00 72.31       FS6
ATOM  38947  O   ASN F  11     185.991 116.529 -93.408  1.00 72.31       FS6
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ATOM  38948  N   PRO F  12     187.583 117.288 -92.024  1.00 82.64      FS6
ATOM  38949  CD  PRO F  12     188.436 117.219 -90.829  1.00 45.64      FS6
ATOM  38950  CA  PRO F  12     187.742 118.579 -92.696  1.00 82.64      FS6
ATOM  38951  CB  PRO F  12     188.396 119.429 -91.621  1.00 45.64      FS6
ATOM  38952  CG  PRO F  12     189.310 118.447 -90.980  1.00 45.64      FS6
ATOM  38953  C   PRO F  12     188.584 118.512 -93.970  1.00 82.64      FS6
ATOM  38954  O   PRO F  12     188.647 119.474 -94.741  1.00 82.64      FS6
ATOM  38955  N   ASN F  13     189.229 117.374 -94.191  1.00121.62      FS6
ATOM  38956  CA  ASN F  13     190.062 117.201 -95.370  1.00121.62      FS6
ATOM  38957  CB  ASN F  13     191.273 116.348 -95.031  1.00108.31      FS6
ATOM  38958  CG  ASN F  13     191.892 116.736 -93.723  1.00108.31      FS6
ATOM  38959  OD1 ASN F  13     192.095 117.920 -93.451  1.00108.31      FS6
ATOM  38960  ND2 ASN F  13     192.203 115.740 -92.896  1.00108.31      FS6
ATOM  38961  C   ASN F  13     189.288 116.535 -96.490  1.00121.62      FS6
ATOM  38962  O   ASN F  13     189.858 115.797 -97.291  1.00121.62      FS6
ATOM  38963  N   LEU F  14     187.989 116.793 -96.549  1.00 81.14      FS6
ATOM  38964  CA  LEU F  14     187.168 116.193 -97.583  1.00 81.14      FS6
ATOM  38965  CB  LEU F  14     185.744 115.975 -97.070  1.00111.08      FS6
ATOM  38966  CG  LEU F  14     185.603 114.949 -95.943  1.00111.08      FS6
ATOM  38967  CD1 LEU F  14     184.148 114.858 -95.529  1.00111.08      FS6
ATOM  38968  CD2 LEU F  14     186.107 113.590 -96.404  1.00111.08      FS6
ATOM  38969  C   LEU F  14     187.138 117.024 -98.855  1.00 81.14      FS6
ATOM  38970  O   LEU F  14     187.076 118.257 -98.814  1.00 81.14      FS6
ATOM  38971  N   ASP F  15     187.203 116.330 -99.986  1.00 79.62      FS6
ATOM  38972  CA  ASP F  15     187.160 116.974-101.288  1.00 79.62      FS6
ATOM  38973  CB  ASP F  15     187.768 116.066-102.355  1.00156.95      FS6
ATOM  38974  CG  ASP F  15     187.088 116.214-103.700  1.00156.95      FS6
ATOM  38975  OD1 ASP F  15     186.984 117.356-104.196  1.00156.95      FS6
ATOM  38976  OD2 ASP F  15     186.657 115.184-104.260  1.00156.95      FS6
ATOM  38977  C   ASP F  15     185.699 117.213-101.594  1.00 79.62      FS6
ATOM  38978  O   ASP F  15     184.855 116.383-101.258  1.00 79.62      FS6
ATOM  38979  N   GLN F  16     185.405 118.342-102.229  1.00 91.56      FS6
ATOM  38980  CA  GLN F  16     184.031 118.684-102.558  1.00 91.56      FS6
ATOM  38981  CB  GLN F  16     183.991 119.787-103.614  1.00181.07      FS6
ATOM  38982  CG  GLN F  16     182.578 120.202-103.973  1.00181.07      FS6
ATOM  38983  CD  GLN F  16     181.709 120.399-102.743  1.00181.07      FS6
ATOM  38984  OE1 GLN F  16     182.019 121.213-101.874  1.00181.07      FS6
ATOM  38985  NE2 GLN F  16     180.615 119.649-102.663  1.00181.07      FS6
ATOM  38986  C   GLN F  16     183.229 117.482-103.043  1.00 91.56      FS6
ATOM  38987  O   GLN F  16     182.022 117.409-102.821  1.00 91.56      FS6
ATOM  38988  N   SER F  17     183.900 116.540-103.698  1.00 74.14      FS6
ATOM  38989  CA  SER F  17     183.230 115.344-104.205  1.00 74.14      FS6
ATOM  38990  CB  SER F  17     184.001 114.770-105.396  1.00201.30      FS6
ATOM  38991  OG  SER F  17     184.091 115.718-106.447  1.00201.30      FS6
ATOM  38992  C   SER F  17     183.095 114.287-103.114  1.00 74.14      FS6
ATOM  38993  O   SER F  17     182.089 113.580-103.032  1.00 74.14      FS6
ATOM  38994  N   GLN F  18     184.128 114.179-102.288  1.00 97.60      FS6
ATOM  38995  CA  GLN F  18     184.133 113.234-101.187  1.00 97.60      FS6
ATOM  38996  CB  GLN F  18     185.518 113.206-100.535  1.00161.38      FS6
ATOM  38997  CG  GLN F  18     186.660 112.947-101.514  1.00161.38      FS6
ATOM  38998  CD  GLN F  18     188.033 113.043-100.866  1.00161.38      FS6
ATOM  38999  OE1 GLN F  18     189.059 112.851-101.523  1.00161.38      FS6
ATOM  39000  NE2 GLN F  18     188.058 113.343 -99.574  1.00161.38      FS6
ATOM  39001  C   GLN F  18     183.100 113.764-100.200  1.00 97.60      FS6
ATOM  39002  O   GLN F  18     182.252 113.024 -99.697  1.00 97.60      FS6
ATOM  39003  N   LEU F  19     183.183 115.064 -99.941  1.00 85.35      FS6
ATOM  39004  CA  LEU F  19     182.269 115.738 -99.031  1.00 85.35      FS6
ATOM  39005  CB  LEU F  19     182.587 117.229 -98.977  1.00 48.21      FS6
ATOM  39006  CG  LEU F  19     181.571 118.135 -98.279  1.00 48.21      FS6
ATOM  39007  CD1 LEU F  19     182.267 119.435 -97.968  1.00 48.21      FS6
ATOM  39008  CD2 LEU F  19     180.336 118.393 -99.136  1.00 48.21      FS6
ATOM  39009  C   LEU F  19     180.834 115.557 -99.482  1.00 85.35      FS6
ATOM  39010  O   LEU F  19     180.003 115.033 -98.746  1.00 85.35      FS6
ATOM  39011  N   ALA F  20     180.547 116.017-100.694  1.00 70.52      FS6
ATOM  39012  CA  ALA F  20     179.211 115.913-101.249  1.00 70.52      FS6
ATOM  39013  CB  ALA F  20     179.239 116.237-102.731  1.00144.04      FS6
ATOM  39014  C   ALA F  20     178.687 114.504-101.028  1.00 70.52      FS6
ATOM  39015  O   ALA F  20     177.490 114.304-100.823  1.00 70.52      FS6
ATOM  39016  N   LEU F  21     179.595 113.533-101.067  1.00 82.73      FS6
ATOM  39017  CA  LEU F  21     179.244 112.134-100.864  1.00 82.73      FS6
ATOM  39018  CB  LEU F  21     180.480 111.259-101.014  1.00 97.75      FS6
ATOM  39019  CG  LEU F  21     180.266 109.798-100.626  1.00 97.75      FS6
ATOM  39020  CD1 LEU F  21     179.185 109.199-101.516  1.00 97.75      FS6
ATOM  39021  CD2 LEU F  21     181.582 109.027-100.747  1.00 97.75      FS6
ATOM  39022  C   LEU F  21     178.644 111.921 -99.479  1.00 82.73      FS6
ATOM  39023  O   LEU F  21     177.633 111.227 -99.328  1.00 82.73      FS6
ATOM  39024  N   GLU F  22     179.276 112.516 -98.470  1.00 88.56      FS6
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ATOM  39025  CA  GLU F  22     178.808 112.402 -97.091  1.00 88.56       FS6
ATOM  39026  CB  GLU F  22     179.810 113.055 -96.140  1.00 88.36       FS6
ATOM  39027  CG  GLU F  22     181.158 112.371 -96.161  1.00 88.36       FS6
ATOM  39028  CD  GLU F  22     181.047 110.895 -95.839  1.00 88.36       FS6
ATOM  39029  OE1 GLU F  22     182.028 110.150 -96.061  1.00 88.36       FS6
ATOM  39030  OE2 GLU F  22     179.974 110.480 -95.355  1.00 88.36       FS6
ATOM  39031  C   GLU F  22     177.432 113.022 -96.902  1.00 88.56       FS6
ATOM  39032  O   GLU F  22     176.488 112.340 -96.500  1.00 88.56       FS6
ATOM  39033  N   LYS F  23     177.319 114.315 -97.193  1.00 65.67       FS6
ATOM  39034  CA  LYS F  23     176.046 115.005 -97.061  1.00 65.67       FS6
ATOM  39035  CB  LYS F  23     176.114 116.386 -97.701  1.00 99.82       FS6
ATOM  39036  CG  LYS F  23     177.024 117.351 -96.986  1.00 99.82       FS6
ATOM  39037  CD  LYS F  23     176.624 118.783 -97.299  1.00 99.82       FS6
ATOM  39038  CE  LYS F  23     175.177 119.051 -96.872  1.00 99.82       FS6
ATOM  39039  NZ  LYS F  23     174.738 120.456 -97.130  1.00 99.82       FS6
ATOM  39040  C   LYS F  23     174.933 114.201 -97.722  1.00 65.67       FS6
ATOM  39041  O   LYS F  23     173.763 114.327 -97.362  1.00 65.67       FS6
ATOM  39042  N   GLU F  24     175.301 113.373 -98.693  1.00 98.78       FS6
ATOM  39043  CA  GLU F  24     174.319 112.558 -99.386  1.00 98.78       FS6
ATOM  39044  CB  GLU F  24     174.910 111.971-100.669  1.00201.30       FS6
ATOM  39045  CG  GLU F  24     173.880 111.308-101.578  1.00201.30       FS6
ATOM  39046  CD  GLU F  24     172.810 112.277-102.062  1.00201.30       FS6
ATOM  39047  OE1 GLU F  24     173.164 113.289-102.704  1.00201.30       FS6
ATOM  39048  OE2 GLU F  24     171.613 112.026-101.803  1.00201.30       FS6
ATOM  39049  C   GLU F  24     173.864 111.440 -98.466  1.00 98.78       FS6
ATOM  39050  O   GLU F  24     172.685 111.355 -98.127  1.00 98.78       FS6
ATOM  39051  N   ILE F  25     174.801 110.592 -98.054  1.00 96.67       FS6
ATOM  39052  CA  ILE F  25     174.481 109.476 -97.164  1.00 96.67       FS6
ATOM  39053  CB  ILE F  25     175.761 108.729 -96.736  1.00134.12       FS6
ATOM  39054  CG2 ILE F  25     175.401 107.542 -95.848  1.00134.12       FS6
ATOM  39055  CG1 ILE F  25     176.516 108.254 -97.982  1.00134.12       FS6
ATOM  39056  CD1 ILE F  25     177.783 107.485 -97.689  1.00134.12       FS6
ATOM  39057  C   ILE F  25     173.725 109.954 -95.919  1.00 96.67       FS6
ATOM  39058  O   ILE F  25     172.862 109.248 -95.391  1.00 96.67       FS6
ATOM  39059  N   ILE F  26     174.064 111.153 -95.455  1.00 54.45       FS6
ATOM  39060  CA  ILE F  26     173.401 111.745 -94.307  1.00 54.45       FS6
ATOM  39061  CB  ILE F  26     174.032 113.110 -93.950  1.00 35.67       FS6
ATOM  39062  CG2 ILE F  26     173.032 113.975 -93.191  1.00 35.67       FS6
ATOM  39063  CG1 ILE F  26     175.320 112.903 -93.151  1.00 35.67       FS6
ATOM  39064  CD1 ILE F  26     176.010 114.208 -92.750  1.00 35.67       FS6
ATOM  39065  C   ILE F  26     171.931 111.957 -94.673  1.00 54.45       FS6
ATOM  39066  O   ILE F  26     171.031 111.490 -93.970  1.00 54.45       FS6
ATOM  39067  N   GLN F  27     171.695 112.663 -95.779  1.00 57.95       FS6
ATOM  39068  CA  GLN F  27     170.338 112.943 -96.244  1.00 57.95       FS6
ATOM  39069  CB  GLN F  27     170.379 113.656 -97.592  1.00112.06       FS6
ATOM  39070  CG  GLN F  27     170.995 115.041 -97.521  1.00112.06       FS6
ATOM  39071  CD  GLN F  27     170.178 116.011 -96.687  1.00112.06       FS6
ATOM  39072  OE1 GLN F  27     170.620 117.127 -96.409  1.00112.06       FS6
ATOM  39073  NE2 GLN F  27     168.977 115.595 -96.293  1.00112.06       FS6
ATOM  39074  C   GLN F  27     169.507 111.675 -96.350  1.00 57.95       FS6
ATOM  39075  O   GLN F  27     168.339 111.662 -95.972  1.00 57.95       FS6
ATOM  39076  N   ARG F  28     170.106 110.611 -96.874  1.00 82.55       FS6
ATOM  39077  CA  ARG F  28     169.402 109.343 -96.980  1.00 82.55       FS6
ATOM  39078  CB  ARG F  28     170.322 108.261 -97.550  1.00172.92       FS6
ATOM  39079  CG  ARG F  28     170.809 108.526 -98.961  1.00172.92       FS6
ATOM  39080  CD  ARG F  28     169.677 108.450 -99.975  1.00172.92       FS6
ATOM  39081  NE  ARG F  28     170.157 108.657-101.340  1.00172.92       FS6
ATOM  39082  CZ  ARG F  28     171.049 107.880-101.951  1.00172.92       FS6
ATOM  39083  NH1 ARG F  28     171.566 106.831-101.324  1.00172.92       FS6
ATOM  39084  NH2 ARG F  28     171.430 108.152-103.192  1.00172.92       FS6
ATOM  39085  C   ARG F  28     169.010 108.979 -95.552  1.00 82.55       FS6
ATOM  39086  O   ARG F  28     167.831 108.995 -95.190  1.00 82.55       FS6
ATOM  39087  N   ALA F  29     170.019 108.672 -94.741  1.00 78.37       FS6
ATOM  39088  CA  ALA F  29     169.816 108.305 -93.343  1.00 78.37       FS6
ATOM  39089  CB  ALA F  29     171.088 108.570 -92.551  1.00106.48       FS6
ATOM  39090  C   ALA F  29     168.653 109.082 -92.741  1.00 78.37       FS6
ATOM  39091  O   ALA F  29     167.605 108.511 -92.435  1.00 78.37       FS6
ATOM  39092  N   LEU F  30     168.848 110.386 -92.578  1.00 59.50       FS6
ATOM  39093  CA  LEU F  30     167.812 111.235 -92.026  1.00 59.50       FS6
ATOM  39094  CB  LEU F  30     168.049 112.693 -92.418  1.00 47.40       FS6
ATOM  39095  CG  LEU F  30     169.365 113.332 -91.970  1.00 47.40       FS6
ATOM  39096  CD1 LEU F  30     169.349 114.823 -92.290  1.00 47.40       FS6
ATOM  39097  CD2 LEU F  30     169.554 113.129 -90.473  1.00 47.40       FS6
ATOM  39098  C   LEU F  30     166.480 110.762 -92.583  1.00 59.50       FS6
ATOM  39099  O   LEU F  30     165.588 110.357 -91.841  1.00 59.50       FS6
ATOM  39100  N   GLU F  31     166.359 110.796 -93.901  1.00 92.99       FS6
ATOM  39101  CA  GLU F  31     165.136 110.365 -94.555  1.00 92.99       FS6
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ATOM  39102  CB  GLU F  31     165.334 110.343 -96.074  1.00201.30      FS6
ATOM  39103  CG  GLU F  31     165.239 111.706 -96.734  1.00201.30      FS6
ATOM  39104  CD  GLU F  31     163.813 112.222 -96.791  1.00201.30      FS6
ATOM  39105  OE1 GLU F  31     162.988 111.613 -97.508  1.00201.30      FS6
ATOM  39106  OE2 GLU F  31     163.515 113.232 -96.116  1.00201.30      FS6
ATOM  39107  C   GLU F  31     164.680 108.990 -94.083  1.00 92.99      FS6
ATOM  39108  O   GLU F  31     163.615 108.852 -93.479  1.00 92.99      FS6
ATOM  39109  N   ASN F  32     165.494 107.977 -94.360  1.00 93.80      FS6
ATOM  39110  CA  ASN F  32     165.174 106.603 -93.995  1.00 93.80      FS6
ATOM  39111  CB  ASN F  32     166.410 105.721 -94.161  1.00147.15      FS6
ATOM  39112  CG  ASN F  32     166.770 105.495 -95.616  1.00147.15      FS6
ATOM  39113  OD1 ASN F  32     167.800 104.897 -95.926  1.00147.15      FS6
ATOM  39114  ND2 ASN F  32     165.916 105.968 -96.519  1.00147.15      FS6
ATOM  39115  C   ASN F  32     164.599 106.419 -92.598  1.00 93.80      FS6
ATOM  39116  O   ASN F  32     163.904 105.434 -92.342  1.00 93.80      FS6
ATOM  39117  N   TYR F  33     164.874 107.363 -91.700  1.00 87.59      FS6
ATOM  39118  CA  TYR F  33     164.376 107.265 -90.331  1.00 87.59      FS6
ATOM  39119  CB  TYR F  33     165.513 107.536 -89.338  1.00 66.56      FS6
ATOM  39120  CG  TYR F  33     166.512 106.404 -89.292  1.00 66.56      FS6
ATOM  39121  CD1 TYR F  33     167.732 106.491 -89.956  1.00 66.56      FS6
ATOM  39122  CE1 TYR F  33     168.608 105.405 -89.995  1.00 66.56      FS6
ATOM  39123  CD2 TYR F  33     166.194 105.206 -88.658  1.00 66.56      FS6
ATOM  39124  CE2 TYR F  33     167.053 104.118 -88.693  1.00 66.56      FS6
ATOM  39125  CZ  TYR F  33     168.257 104.220 -89.364  1.00 66.56      FS6
ATOM  39126  OH  TYR F  33     169.093 103.126 -89.417  1.00 66.56      FS6
ATOM  39127  C   TYR F  33     163.184 108.152 -90.006  1.00 87.59      FS6
ATOM  39128  O   TYR F  33     162.606 108.042 -88.929  1.00 87.59      FS6
ATOM  39129  N   GLY F  34     162.806 109.014 -90.943  1.00 75.36      FS6
ATOM  39130  CA  GLY F  34     161.681 109.904 -90.715  1.00 75.36      FS6
ATOM  39131  C   GLY F  34     162.152 111.300 -90.351  1.00 75.36      FS6
ATOM  39132  O   GLY F  34     161.361 112.182 -90.004  1.00 75.36      FS6
ATOM  39133  N   ALA F  35     163.459 111.501 -90.432  1.00129.53      FS6
ATOM  39134  CA  ALA F  35     164.043 112.790 -90.116  1.00129.53      FS6
ATOM  39135  CB  ALA F  35     165.551 112.701 -90.156  1.00 54.46      FS6
ATOM  39136  C   ALA F  35     163.566 113.845 -91.094  1.00129.53      FS6
ATOM  39137  O   ALA F  35     164.179 114.064 -92.137  1.00129.53      FS6
ATOM  39138  N   ARG F  36     162.461 114.491 -90.767  1.00 54.96      FS6
ATOM  39139  CA  ARG F  36     161.945 115.539 -91.630  1.00 54.96      FS6
ATOM  39140  CB  ARG F  36     160.488 115.833 -91.264  1.00134.70      FS6
ATOM  39141  CG  ARG F  36     159.878 117.038 -91.960  1.00134.70      FS6
ATOM  39142  CD  ARG F  36     158.531 117.400 -91.339  1.00134.70      FS6
ATOM  39143  NE  ARG F  36     158.034 118.692 -91.803  1.00134.70      FS6
ATOM  39144  CZ  ARG F  36     158.708 119.834 -91.700  1.00134.70      FS6
ATOM  39145  NH1 ARG F  36     159.915 119.849 -91.151  1.00134.70      FS6
ATOM  39146  NH2 ARG F  36     158.176 120.964 -92.145  1.00134.70      FS6
ATOM  39147  C   ARG F  36     162.826 116.777 -91.398  1.00 54.96      FS6
ATOM  39148  O   ARG F  36     162.763 117.402 -90.337  1.00 54.96      FS6
ATOM  39149  N   VAL F  37     163.646 117.129 -92.387  1.00 58.46      FS6
ATOM  39150  CA  VAL F  37     164.540 118.277 -92.255  1.00 58.46      FS6
ATOM  39151  CB  VAL F  37     165.556 118.305 -93.381  1.00 69.30      FS6
ATOM  39152  CG1 VAL F  37     166.661 119.290 -93.031  1.00 69.30      FS6
ATOM  39153  CG2 VAL F  37     166.100 116.910 -93.625  1.00 69.30      FS6
ATOM  39154  C   VAL F  37     163.846 119.639 -92.228  1.00 58.46      FS6
ATOM  39155  O   VAL F  37     163.165 120.016 -93.179  1.00 58.46      FS6
ATOM  39156  N   GLU F  38     164.048 120.388 -91.145  1.00 65.83      FS6
ATOM  39157  CA  GLU F  38     163.428 121.704 -90.993  1.00 65.83      FS6
ATOM  39158  CB  GLU F  38     162.982 121.936 -89.548  1.00 87.68      FS6
ATOM  39159  CG  GLU F  38     161.870 121.019 -89.076  1.00 87.68      FS6
ATOM  39160  CD  GLU F  38     161.004 121.673 -88.020  1.00 87.68      FS6
ATOM  39161  OE1 GLU F  38     160.090 121.001 -87.500  1.00 87.68      FS6
ATOM  39162  OE2 GLU F  38     161.235 122.863 -87.719  1.00 87.68      FS6
ATOM  39163  C   GLU F  38     164.328 122.849 -91.414  1.00 65.83      FS6
ATOM  39164  O   GLU F  38     163.843 123.939 -91.702  1.00 65.83      FS6
ATOM  39165  N   LYS F  39     165.634 122.609 -91.415  1.00100.55      FS6
ATOM  39166  CA  LYS F  39     166.609 123.611 -91.837  1.00100.55      FS6
ATOM  39167  CB  LYS F  39     166.284 124.997 -91.273  1.00122.82      FS6
ATOM  39168  CG  LYS F  39     166.424 125.158 -89.786  1.00122.82      FS6
ATOM  39169  CD  LYS F  39     166.239 126.624 -89.445  1.00122.82      FS6
ATOM  39170  CE  LYS F  39     166.364 126.884 -87.961  1.00122.82      FS6
ATOM  39171  NZ  LYS F  39     166.215 128.335 -87.656  1.00122.82      FS6
ATOM  39172  C   LYS F  39     168.028 123.225 -91.465  1.00100.55      FS6
ATOM  39173  O   LYS F  39     168.264 122.596 -90.434  1.00100.55      FS6
ATOM  39174  N   VAL F  40     168.970 123.612 -92.318  1.00 54.00      FS6
ATOM  39175  CA  VAL F  40     170.372 123.289 -92.112  1.00 54.00      FS6
ATOM  39176  CB  VAL F  40     170.978 122.625 -93.360  1.00 56.11      FS6
ATOM  39177  CG1 VAL F  40     170.052 121.537 -93.883  1.00 56.11      FS6
ATOM  39178  CG2 VAL F  40     171.235 123.682 -94.425  1.00 56.11      FS6
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ATOM  39179  C   VAL F  40     171.227 124.504 -91.801  1.00 54.00      FS6
ATOM  39180  O   VAL F  40     170.736 125.632 -91.724  1.00 54.00      FS6
ATOM  39181  N   GLU F  41     172.518 124.247 -91.635  1.00 82.33      FS6
ATOM  39182  CA  GLU F  41     173.497 125.281 -91.357  1.00 82.33      FS6
ATOM  39183  CB  GLU F  41     173.401 125.744 -89.898  1.00129.85      FS6
ATOM  39184  CG  GLU F  41     172.201 126.655 -89.639  1.00129.85      FS6
ATOM  39185  CD  GLU F  41     172.193 127.267 -88.253  1.00129.85      FS6
ATOM  39186  OE1 GLU F  41     173.233 127.834 -87.854  1.00129.85      FS6
ATOM  39187  OE2 GLU F  41     171.145 127.194 -87.570  1.00129.85      FS6
ATOM  39188  C   GLU F  41     174.881 124.728 -91.670  1.00 82.33      FS6
ATOM  39189  O   GLU F  41     175.334 123.763 -91.058  1.00 82.33      FS6
ATOM  39190  N   GLU F  42     175.540 125.345 -92.644  1.00123.15      FS6
ATOM  39191  CA  GLU F  42     176.865 124.923 -93.077  1.00123.15      FS6
ATOM  39192  CB  GLU F  42     176.947 124.982 -94.602  1.00123.03      FS6
ATOM  39193  CG  GLU F  42     177.928 124.018 -95.233  1.00123.03      FS6
ATOM  39194  CD  GLU F  42     177.456 122.583 -95.144  1.00123.03      FS6
ATOM  39195  OE1 GLU F  42     177.965 121.743 -95.915  1.00123.03      FS6
ATOM  39196  OE2 GLU F  42     176.579 122.296 -94.301  1.00123.03      FS6
ATOM  39197  C   GLU F  42     177.935 125.826 -92.485  1.00123.15      FS6
ATOM  39198  O   GLU F  42     178.444 126.718 -93.162  1.00123.15      FS6
ATOM  39199  N   LEU F  43     178.273 125.601 -91.222  1.00 83.75      FS6
ATOM  39200  CA  LEU F  43     179.294 126.408 -90.573  1.00 83.75      FS6
ATOM  39201  CB  LEU F  43     179.390 126.045 -89.093  1.00 96.84      FS6
ATOM  39202  CG  LEU F  43     178.474 126.892 -88.212  1.00 96.84      FS6
ATOM  39203  CD1 LEU F  43     179.021 128.309 -88.136  1.00 96.84      FS6
ATOM  39204  CD2 LEU F  43     177.062 126.889 -88.782  1.00 96.84      FS6
ATOM  39205  C   LEU F  43     180.649 126.241 -91.249  1.00 83.75      FS6
ATOM  39206  O   LEU F  43     181.376 127.218 -91.441  1.00 83.75      FS6
ATOM  39207  N   GLY F  44     180.988 125.005 -91.609  1.00 78.52      FS6
ATOM  39208  CA  GLY F  44     182.252 124.758 -92.280  1.00 78.52      FS6
ATOM  39209  C   GLY F  44     183.364 124.229 -91.400  1.00 78.52      FS6
ATOM  39210  O   GLY F  44     183.220 123.197 -90.749  1.00 78.52      FS6
ATOM  39211  N   LEU F  45     184.482 124.944 -91.383  1.00115.50      FS6
ATOM  39212  CA  LEU F  45     185.631 124.540 -90.588  1.00115.50      FS6
ATOM  39213  CB  LEU F  45     186.877 124.501 -91.470  1.00136.97      FS6
ATOM  39214  CG  LEU F  45     186.751 123.673 -92.749  1.00136.97      FS6
ATOM  39215  CD1 LEU F  45     188.053 123.738 -93.528  1.00136.97      FS6
ATOM  39216  CD2 LEU F  45     186.413 122.236 -92.400  1.00136.97      FS6
ATOM  39217  C   LEU F  45     185.868 125.493 -89.426  1.00115.50      FS6
ATOM  39218  O   LEU F  45     185.738 126.708 -89.575  1.00115.50      FS6
ATOM  39219  N   ARG F  46     186.214 124.941 -88.267  1.00 80.89      FS6
ATOM  39220  CA  ARG F  46     186.484 125.763 -87.095  1.00 80.89      FS6
ATOM  39221  CB  ARG F  46     185.208 125.936 -86.265  1.00180.57      FS6
ATOM  39222  CG  ARG F  46     184.064 126.564 -87.052  1.00180.57      FS6
ATOM  39223  CD  ARG F  46     182.819 126.763 -86.208  1.00180.57      FS6
ATOM  39224  NE  ARG F  46     182.962 127.859 -85.254  1.00180.57      FS6
ATOM  39225  CZ  ARG F  46     182.012 128.236 -84.404  1.00180.57      FS6
ATOM  39226  NH1 ARG F  46     180.845 127.604 -84.384  1.00180.57      FS6
ATOM  39227  NH2 ARG F  46     182.223 129.250 -83.576  1.00180.57      FS6
ATOM  39228  C   ARG F  46     187.598 125.143 -86.258  1.00 80.89      FS6
ATOM  39229  O   ARG F  46     187.876 123.945 -86.356  1.00 80.89      FS6
ATOM  39230  N   ARG F  47     188.246 125.976 -85.450  1.00103.69      FS6
ATOM  39231  CA  ARG F  47     189.344 125.537 -84.596  1.00103.69      FS6
ATOM  39232  CB  ARG F  47     190.146 126.745 -84.097  1.00181.43      FS6
ATOM  39233  CG  ARG F  47     190.669 127.692 -85.174  1.00181.43      FS6
ATOM  39234  CD  ARG F  47     191.782 127.070 -86.003  1.00181.43      FS6
ATOM  39235  NE  ARG F  47     192.490 128.066 -86.809  1.00181.43      FS6
ATOM  39236  CZ  ARG F  47     191.920 128.835 -87.733  1.00181.43      FS6
ATOM  39237  NH1 ARG F  47     190.622 128.733 -87.982  1.00181.43      FS6
ATOM  39238  NH2 ARG F  47     192.652 129.708 -88.411  1.00181.43      FS6
ATOM  39239  C   ARG F  47     188.827 124.767 -83.387  1.00103.69      FS6
ATOM  39240  O   ARG F  47     188.286 125.358 -82.454  1.00103.69      FS6
ATOM  39241  N   LEU F  48     188.995 123.451 -83.396  1.00 72.32      FS6
ATOM  39242  CA  LEU F  48     188.553 122.637 -82.272  1.00 72.32      FS6
ATOM  39243  CB  LEU F  48     188.659 121.163 -82.624  1.00 34.30      FS6
ATOM  39244  CG  LEU F  48     187.822 120.749 -83.826  1.00 34.30      FS6
ATOM  39245  CD1 LEU F  48     188.086 119.283 -84.130  1.00 34.30      FS6
ATOM  39246  CD2 LEU F  48     186.346 120.992 -83.539  1.00 34.30      FS6
ATOM  39247  C   LEU F  48     189.413 122.925 -81.046  1.00 72.32      FS6
ATOM  39248  O   LEU F  48     190.612 123.187 -81.163  1.00 72.32      FS6
ATOM  39249  N   ALA F  49     188.799 122.869 -79.870  1.00 69.25      FS6
ATOM  39250  CA  ALA F  49     189.516 123.133 -78.627  1.00 69.25      FS6
ATOM  39251  CB  ALA F  49     188.536 123.186 -77.467  1.00111.07      FS6
ATOM  39252  C   ALA F  49     190.574 122.067 -78.372  1.00 69.25      FS6
ATOM  39253  O   ALA F  49     191.517 122.274 -77.606  1.00 69.25      FS6
ATOM  39254  N   TYR F  50     190.403 120.926 -79.024  1.00 39.69      FS6
ATOM  39255  CA  TYR F  50     191.325 119.812 -78.889  1.00 39.69      FS6
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ATOM  39256  CB  TYR F  50     190.948 118.963 -77.674  1.00 48.31      FS6
ATOM  39257  CG  TYR F  50     189.519 118.462 -77.699  1.00 48.31      FS6
ATOM  39258  CD1 TYR F  50     188.465 119.254 -77.231  1.00 48.31      FS6
ATOM  39259  CE1 TYR F  50     187.142 118.803 -77.278  1.00 48.31      FS6
ATOM  39260  CD2 TYR F  50     189.215 117.205 -78.214  1.00 48.31      FS6
ATOM  39261  CE2 TYR F  50     187.895 116.746 -78.265  1.00 48.31      FS6
ATOM  39262  CZ  TYR F  50     186.867 117.548 -77.797  1.00 48.31      FS6
ATOM  39263  OH  TYR F  50     185.574 117.081 -77.858  1.00 48.31      FS6
ATOM  39264  C   TYR F  50     191.242 118.963 -80.155  1.00 39.69      FS6
ATOM  39265  O   TYR F  50     190.184 118.867 -80.773  1.00 39.69      FS6
ATOM  39266  N   PRO F  51     192.355 118.334 -80.556  1.00 34.09      FS6
ATOM  39267  CD  PRO F  51     193.616 118.165 -79.817  1.00114.24      FS6
ATOM  39268  CA  PRO F  51     192.355 117.503 -81.759  1.00 34.09      FS6
ATOM  39269  CB  PRO F  51     193.782 116.974 -81.805  1.00114.24      FS6
ATOM  39270  CG  PRO F  51     194.121 116.845 -80.359  1.00114.24      FS6
ATOM  39271  C   PRO F  51     191.331 116.373 -81.705  1.00 34.09      FS6
ATOM  39272  O   PRO F  51     191.168 115.719 -80.676  1.00 34.09      FS6
ATOM  39273  N   ILE F  52     190.631 116.151 -82.809  1.00 68.66      FS6
ATOM  39274  CA  ILE F  52     189.657 115.075 -82.864  1.00 68.66      FS6
ATOM  39275  CB  ILE F  52     188.260 115.575 -83.247  1.00 34.96      FS6
ATOM  39276  CG2 ILE F  52     187.280 114.394 -83.282  1.00 34.96      FS6
ATOM  39277  CG1 ILE F  52     187.805 116.638 -82.249  1.00 34.96      FS6
ATOM  39278  CD1 ILE F  52     186.377 117.102 -82.449  1.00 34.96      FS6
ATOM  39279  C   ILE F  52     190.138 114.111 -83.925  1.00 68.66      FS6
ATOM  39280  O   ILE F  52     190.288 114.484 -85.088  1.00 68.66      FS6
ATOM  39281  N   ALA F  53     190.388 112.872 -83.523  1.00 83.81      FS6
ATOM  39282  CA  ALA F  53     190.874 111.877 -84.459  1.00 83.81      FS6
ATOM  39283  CB  ALA F  53     189.827 111.618 -85.537  1.00 45.91      FS6
ATOM  39284  C   ALA F  53     192.164 112.417 -85.075  1.00 83.81      FS6
ATOM  39285  O   ALA F  53     192.298 112.521 -86.293  1.00 83.81      FS6
ATOM  39286  N   LYS F  54     193.102 112.779 -84.205  1.00 88.84      FS6
ATOM  39287  CA  LYS F  54     194.408 113.304 -84.605  1.00 88.84      FS6
ATOM  39288  CB  LYS F  54     195.133 112.296 -85.505  1.00164.63      FS6
ATOM  39289  CG  LYS F  54     194.841 110.833 -85.185  1.00164.63      FS6
ATOM  39290  CD  LYS F  54     195.036 110.520 -83.711  1.00164.63      FS6
ATOM  39291  CE  LYS F  54     194.524 109.130 -83.378  1.00164.63      FS6
ATOM  39292  NZ  LYS F  54     194.527 108.887 -81.911  1.00164.63      FS6
ATOM  39293  C   LYS F  54     194.319 114.650 -85.323  1.00 88.84      FS6
ATOM  39294  O   LYS F  54     195.221 115.482 -85.206  1.00 88.84      FS6
ATOM  39295  N   ASP F  55     193.229 114.855 -86.058  1.00 61.25      FS6
ATOM  39296  CA  ASP F  55     193.014 116.089 -86.813  1.00 61.25      FS6
ATOM  39297  CB  ASP F  55     191.862 115.897 -87.799  1.00143.68      FS6
ATOM  39298  CG  ASP F  55     191.802 116.991 -88.840  1.00143.68      FS6
ATOM  39299  OD1 ASP F  55     191.712 118.178 -88.464  1.00143.68      FS6
ATOM  39300  OD2 ASP F  55     191.846 116.661 -90.041  1.00143.68      FS6
ATOM  39301  C   ASP F  55     192.711 117.279 -85.899  1.00 61.25      FS6
ATOM  39302  O   ASP F  55     191.851 117.188 -85.026  1.00 61.25      FS6
ATOM  39303  N   PRO F  56     193.414 118.411 -86.098  1.00 38.82      FS6
ATOM  39304  CD  PRO F  56     194.611 118.504 -86.954  1.00128.06      FS6
ATOM  39305  CA  PRO F  56     193.253 119.640 -85.313  1.00 38.82      FS6
ATOM  39306  CB  PRO F  56     194.630 120.278 -85.412  1.00128.06      FS6
ATOM  39307  CG  PRO F  56     195.006 119.964 -86.815  1.00128.06      FS6
ATOM  39308  C   PRO F  56     192.138 120.593 -85.773  1.00 38.82      FS6
ATOM  39309  O   PRO F  56     192.026 121.726 -85.276  1.00 38.82      FS6
ATOM  39310  N   GLN F  57     191.307 120.130 -86.704  1.00 63.71      FS6
ATOM  39311  CA  GLN F  57     190.208 120.937 -87.235  1.00 63.71      FS6
ATOM  39312  CB  GLN F  57     190.606 121.514 -88.592  1.00196.97      FS6
ATOM  39313  CG  GLN F  57     191.986 122.144 -88.603  1.00196.97      FS6
ATOM  39314  CD  GLN F  57     192.533 122.331 -90.002  1.00196.97      FS6
ATOM  39315  OE1 GLN F  57     193.676 122.753 -90.181  1.00196.97      FS6
ATOM  39316  NE2 GLN F  57     191.720 122.016 -91.004  1.00196.97      FS6
ATOM  39317  C   GLN F  57     188.953 120.080 -87.401  1.00 63.71      FS6
ATOM  39318  O   GLN F  57     188.968 118.871 -87.141  1.00 63.71      FS6
ATOM  39319  N   GLY F  58     187.868 120.704 -87.845  1.00 47.76      FS6
ATOM  39320  CA  GLY F  58     186.641 119.955 -88.030  1.00 47.76      FS6
ATOM  39321  C   GLY F  58     185.597 120.644 -88.886  1.00 47.76      FS6
ATOM  39322  O   GLY F  58     185.447 121.874 -88.835  1.00 47.76      FS6
ATOM  39323  N   TYR F  59     184.874 119.844 -89.670  1.00 65.43      FS6
ATOM  39324  CA  TYR F  59     183.830 120.357 -90.549  1.00 65.43      FS6
ATOM  39325  CB  TYR F  59     183.899 119.692 -91.920  1.00 94.85      FS6
ATOM  39326  CG  TYR F  59     182.993 120.358 -92.927  1.00 94.85      FS6
ATOM  39327  CD1 TYR F  59     183.220 121.675 -93.325  1.00 94.85      FS6
ATOM  39328  CE1 TYR F  59     182.380 122.308 -94.219  1.00 94.85      FS6
ATOM  39329  CD2 TYR F  59     181.896 119.689 -93.457  1.00 94.85      FS6
ATOM  39330  CE2 TYR F  59     181.047 120.317 -94.355  1.00 94.85      FS6
ATOM  39331  CZ  TYR F  59     181.297 121.626 -94.730  1.00 94.85      FS6
ATOM  39332  OH  TYR F  59     180.463 122.258 -95.617  1.00 94.85      FS6
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ATOM  39333  C   TYR F  59     182.458 120.104 -89.952  1.00 65.43      FS6
ATOM  39334  O   TYR F  59     181.982 118.967 -89.940  1.00 65.43      FS6
ATOM  39335  N   PHE F  60     181.816 121.176 -89.495  1.00 73.84      FS6
ATOM  39336  CA  PHE F  60     180.509 121.089 -88.857  1.00 73.84      FS6
ATOM  39337  CB  PHE F  60     180.417 122.111 -87.725  1.00 98.40      FS6
ATOM  39338  CG  PHE F  60     181.392 121.873 -86.621  1.00 98.40      FS6
ATOM  39339  CD1 PHE F  60     182.748 122.106 -86.812  1.00 98.40      FS6
ATOM  39340  CD2 PHE F  60     180.960 121.400 -85.393  1.00 98.40      FS6
ATOM  39341  CE1 PHE F  60     183.658 121.870 -85.795  1.00 98.40      FS6
ATOM  39342  CE2 PHE F  60     181.859 121.161 -84.373  1.00 98.40      FS6
ATOM  39343  CZ  PHE F  60     183.213 121.397 -84.574  1.00 98.40      FS6
ATOM  39344  C   PHE F  60     179.282 121.256 -89.734  1.00 73.84      FS6
ATOM  39345  O   PHE F  60     179.283 122.011 -90.707  1.00 73.84      FS6
ATOM  39346  N   LEU F  61     178.229 120.546 -89.343  1.00118.02      FS6
ATOM  39347  CA  LEU F  61     176.938 120.586 -90.013  1.00118.02      FS6
ATOM  39348  CB  LEU F  61     176.590 119.218 -90.601  1.00 83.82      FS6
ATOM  39349  CG  LEU F  61     177.581 118.664 -91.624  1.00 83.82      FS6
ATOM  39350  CD1 LEU F  61     177.053 117.357 -92.186  1.00 83.82      FS6
ATOM  39351  CD2 LEU F  61     177.777 119.672 -92.732  1.00 83.82      FS6
ATOM  39352  C   LEU F  61     175.917 120.961 -88.946  1.00118.02      FS6
ATOM  39353  O   LEU F  61     176.291 121.407 -87.860  1.00118.02      FS6
ATOM  39354  N   TRP F  62     174.636 120.774 -89.253  1.00 85.87      FS6
ATOM  39355  CA  TRP F  62     173.563 121.099 -88.315  1.00 85.87      FS6
ATOM  39356  CB  TRP F  62     173.744 122.507 -87.747  1.00106.40      FS6
ATOM  39357  CG  TRP F  62     172.815 122.836 -86.614  1.00106.40      FS6
ATOM  39358  CD2 TRP F  62     171.529 123.457 -86.711  1.00106.40      FS6
ATOM  39359  CE2 TRP F  62     171.038 123.607 -85.399  1.00106.40      FS6
ATOM  39360  CE3 TRP F  62     170.743 123.902 -87.781  1.00106.40      FS6
ATOM  39361  CD1 TRP F  62     173.040 122.633 -85.285  1.00106.40      FS6
ATOM  39362  NE1 TRP F  62     171.981 123.097 -84.548  1.00106.40      FS6
ATOM  39363  CZ2 TRP F  62     169.797 124.186 -85.127  1.00106.40      FS6
ATOM  39364  CZ3 TRP F  62     169.509 124.477 -87.509  1.00106.40      FS6
ATOM  39365  CH2 TRP F  62     169.049 124.614 -86.192  1.00106.40      FS6
ATOM  39366  C   TRP F  62     172.203 121.025 -88.991  1.00 85.87      FS6
ATOM  39367  O   TRP F  62     171.792 121.944 -89.692  1.00 85.87      FS6
ATOM  39368  N   TYR F  63     171.505 119.925 -88.774  1.00 62.29      FS6
ATOM  39369  CA  TYR F  63     170.195 119.754 -89.352  1.00 62.29      FS6
ATOM  39370  CB  TYR F  63     170.131 118.447 -90.141  1.00 88.56      FS6
ATOM  39371  CG  TYR F  63     171.219 118.271 -91.170  1.00 88.56      FS6
ATOM  39372  CD1 TYR F  63     171.287 119.088 -92.292  1.00 88.56      FS6
ATOM  39373  CE1 TYR F  63     172.278 118.909 -93.254  1.00 88.56      FS6
ATOM  39374  CD2 TYR F  63     172.171 117.267 -91.031  1.00 88.56      FS6
ATOM  39375  CE2 TYR F  63     173.165 117.079 -91.983  1.00 88.56      FS6
ATOM  39376  CZ  TYR F  63     173.212 117.900 -93.091  1.00 88.56      FS6
ATOM  39377  OH  TYR F  63     174.191 117.700 -94.033  1.00 88.56      FS6
ATOM  39378  C   TYR F  63     169.174 119.698 -88.224  1.00 62.29      FS6
ATOM  39379  O   TYR F  63     169.224 118.792 -87.388  1.00 62.29      FS6
ATOM  39380  N   GLN F  64     168.268 120.673 -88.185  1.00 62.08      FS6
ATOM  39381  CA  GLN F  64     167.204 120.678 -87.183  1.00 62.08      FS6
ATOM  39382  CB  GLN F  64     166.705 122.089 -86.905  1.00 71.35      FS6
ATOM  39383  CG  GLN F  64     165.380 122.070 -86.176  1.00 71.35      FS6
ATOM  39384  CD  GLN F  64     164.819 123.447 -85.935  1.00 71.35      FS6
ATOM  39385  OE1 GLN F  64     165.399 124.249 -85.203  1.00 71.35      FS6
ATOM  39386  NE2 GLN F  64     163.678 123.733 -86.551  1.00 71.35      FS6
ATOM  39387  C   GLN F  64     166.051 119.861 -87.758  1.00 62.08      FS6
ATOM  39388  O   GLN F  64     165.343 120.328 -88.637  1.00 62.08      FS6
ATOM  39389  N   VAL F  65     165.852 118.650 -87.256  1.00 67.96      FS6
ATOM  39390  CA  VAL F  65     164.795 117.801 -87.782  1.00 67.96      FS6
ATOM  39391  CB  VAL F  65     165.342 116.396 -88.100  1.00 76.13      FS6
ATOM  39392  CG1 VAL F  65     166.774 116.511 -88.586  1.00 76.13      FS6
ATOM  39393  CG2 VAL F  65     165.252 115.493 -86.869  1.00 76.13      FS6
ATOM  39394  C   VAL F  65     163.569 117.639 -86.881  1.00 67.96      FS6
ATOM  39395  O   VAL F  65     163.508 118.180 -85.771  1.00 67.96      FS6
ATOM  39396  N   GLU F  66     162.593 116.888 -87.395  1.00 66.47      FS6
ATOM  39397  CA  GLU F  66     161.350 116.583 -86.699  1.00 66.47      FS6
ATOM  39398  CB  GLU F  66     160.220 117.515 -87.150  1.00141.26      FS6
ATOM  39399  CG  GLU F  66     158.872 117.189 -86.511  1.00141.26      FS6
ATOM  39400  CD  GLU F  66     157.743 118.087 -86.992  1.00141.26      FS6
ATOM  39401  OE1 GLU F  66     157.795 119.306 -86.725  1.00141.26      FS6
ATOM  39402  OE2 GLU F  66     156.803 117.570 -87.636  1.00141.26      FS6
ATOM  39403  C   GLU F  66     161.006 115.142 -87.056  1.00 66.47      FS6
ATOM  39404  O   GLU F  66     160.231 114.883 -87.971  1.00 66.47      FS6
ATOM  39405  N   MET F  67     161.603 114.206 -86.330  1.00 44.13      FS6
ATOM  39406  CA  MET F  67     161.387 112.781 -86.560  1.00 44.13      FS6
ATOM  39407  CB  MET F  67     162.732 112.107 -86.804  1.00 77.30      FS6
ATOM  39408  CG  MET F  67     163.690 112.275 -85.638  1.00 77.30      FS6
ATOM  39409  SD  MET F  67     165.277 111.502 -85.909  1.00 77.30      FS6
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ATOM  39410  CE  MET F  67     164.837 109.795 -85.739  1.00 77.30      FS6
ATOM  39411  C   MET F  67     160.717 112.139 -85.346  1.00 44.13      FS6
ATOM  39412  O   MET F  67     160.429 112.811 -84.356  1.00 44.13      FS6
ATOM  39413  N   PRO F  68     160.452 110.829 -85.415  1.00 82.19      FS6
ATOM  39414  CD  PRO F  68     160.357 110.072 -86.668  1.00 58.64      FS6
ATOM  39415  CA  PRO F  68     159.822 110.081 -84.323  1.00 82.19      FS6
ATOM  39416  CB  PRO F  68     159.288 108.832 -85.020  1.00 58.64      FS6
ATOM  39417  CG  PRO F  68     159.124 109.261 -86.433  1.00 58.64      FS6
ATOM  39418  C   PRO F  68     160.842 109.719 -83.240  1.00 82.19      FS6
ATOM  39419  O   PRO F  68     161.842 109.047 -83.513  1.00 82.19      FS6
ATOM  39420  N   GLU F  69     160.585 110.169 -82.016  1.00 88.90      FS6
ATOM  39421  CA  GLU F  69     161.460 109.902 -80.881  1.00 88.90      FS6
ATOM  39422  CB  GLU F  69     160.729 110.234 -79.585  1.00 99.59      FS6
ATOM  39423  CG  GLU F  69     159.383 110.894 -79.818  1.00 99.59      FS6
ATOM  39424  CD  GLU F  69     158.334 109.926 -80.342  1.00 99.59      FS6
ATOM  39425  OE1 GLU F  69     158.665 109.087 -81.208  1.00 99.59      FS6
ATOM  39426  OE2 GLU F  69     157.170 110.011 -79.892  1.00 99.59      FS6
ATOM  39427  C   GLU F  69     161.910 108.449 -80.856  1.00 88.90      FS6
ATOM  39428  O   GLU F  69     163.085 108.156 -80.649  1.00 88.90      FS6
ATOM  39429  N   ASP F  70     160.967 107.543 -81.081  1.00 60.37      FS6
ATOM  39430  CA  ASP F  70     161.239 106.106 -81.078  1.00 60.37      FS6
ATOM  39431  CB  ASP F  70     159.948 105.349 -81.393  1.00109.15      FS6
ATOM  39432  CG  ASP F  70     159.295 105.826 -82.683  1.00109.15      FS6
ATOM  39433  OD1 ASP F  70     158.977 107.033 -82.778  1.00109.15      FS6
ATOM  39434  OD2 ASP F  70     159.099 104.996 -83.599  1.00109.15      FS6
ATOM  39435  C   ASP F  70     162.336 105.634 -82.040  1.00 60.37      FS6
ATOM  39436  O   ASP F  70     162.670 104.448 -82.066  1.00 60.37      FS6
ATOM  39437  N   ARG F  71     162.894 106.551 -82.827  1.00 74.44      FS6
ATOM  39438  CA  ARG F  71     163.927 106.196 -83.799  1.00 74.44      FS6
ATOM  39439  CB  ARG F  71     163.491 106.640 -85.200  1.00133.30      FS6
ATOM  39440  CG  ARG F  71     162.147 106.078 -85.651  1.00133.30      FS6
ATOM  39441  CD  ARG F  71     162.271 104.649 -86.147  1.00133.30      FS6
ATOM  39442  NE  ARG F  71     162.911 104.593 -87.458  1.00133.30      FS6
ATOM  39443  CZ  ARG F  71     163.204 103.468 -88.103  1.00133.30      FS6
ATOM  39444  NH1 ARG F  71     162.918 102.294 -87.558  1.00133.30      FS6
ATOM  39445  NH2 ARG F  71     163.781 103.514 -89.296  1.00133.30      FS6
ATOM  39446  C   ARG F  71     165.270 106.831 -83.467  1.00 74.44      FS6
ATOM  39447  O   ARG F  71     166.293 106.156 -83.431  1.00 74.44      FS6
ATOM  39448  N   VAL F  72     165.241 108.138 -83.239  1.00 40.83      FS6
ATOM  39449  CA  VAL F  72     166.416 108.941 -82.916  1.00 40.83      FS6
ATOM  39450  CB  VAL F  72     166.107 109.908 -81.757  1.00 83.73      FS6
ATOM  39451  CG1 VAL F  72     167.292 110.823 -81.516  1.00 83.73      FS6
ATOM  39452  CG2 VAL F  72     164.865 110.723 -82.080  1.00 83.73      FS6
ATOM  39453  C   VAL F  72     167.686 108.175 -82.571  1.00 40.83      FS6
ATOM  39454  O   VAL F  72     168.722 108.360 -83.211  1.00 40.83      FS6
ATOM  39455  N   ASN F  73     167.619 107.325 -81.555  1.00 62.26      FS6
ATOM  39456  CA  ASN F  73     168.796 106.562 -81.157  1.00 62.26      FS6
ATOM  39457  CB  ASN F  73     168.487 105.724 -79.913  1.00 73.00      FS6
ATOM  39458  CG  ASN F  73     169.246 106.207 -78.683  1.00 73.00      FS6
ATOM  39459  OD1 ASN F  73     170.411 105.859 -78.482  1.00 73.00      FS6
ATOM  39460  ND2 ASN F  73     168.594 107.026 -77.867  1.00 73.00      FS6
ATOM  39461  C   ASN F  73     169.337 105.682 -82.280  1.00 62.26      FS6
ATOM  39462  O   ASN F  73     170.549 105.588 -82.453  1.00 62.26      FS6
ATOM  39463  N   ASP F  74     168.444 105.044 -83.040  1.00 55.39      FS6
ATOM  39464  CA  ASP F  74     168.844 104.193 -84.166  1.00 55.39      FS6
ATOM  39465  CB  ASP F  74     167.662 103.358 -84.643  1.00128.99      FS6
ATOM  39466  CG  ASP F  74     167.228 102.343 -83.611  1.00128.99      FS6
ATOM  39467  OD1 ASP F  74     166.947 102.749 -82.462  1.00128.99      FS6
ATOM  39468  OD2 ASP F  74     167.173 101.142 -83.945  1.00128.99      FS6
ATOM  39469  C   ASP F  74     169.367 105.070 -85.294  1.00 55.39      FS6
ATOM  39470  O   ASP F  74     170.361 104.741 -85.942  1.00 55.39      FS6
ATOM  39471  N   LEU F  75     168.691 106.189 -85.525  1.00 36.75      FS6
ATOM  39472  CA  LEU F  75     169.131 107.136 -86.540  1.00 36.75      FS6
ATOM  39473  CB  LEU F  75     168.308 108.429 -86.468  1.00 37.21      FS6
ATOM  39474  CG  LEU F  75     168.773 109.665 -87.252  1.00 37.21      FS6
ATOM  39475  CD1 LEU F  75     170.058 110.209 -86.670  1.00 37.21      FS6
ATOM  39476  CD2 LEU F  75     168.966 109.309 -88.713  1.00 37.21      FS6
ATOM  39477  C   LEU F  75     170.579 107.463 -86.225  1.00 36.75      FS6
ATOM  39478  O   LEU F  75     171.455 107.353 -87.082  1.00 36.75      FS6
ATOM  39479  N   ALA F  76     170.806 107.873 -84.978  1.00 54.80      FS6
ATOM  39480  CA  ALA F  76     172.129 108.246 -84.484  1.00 54.80      FS6
ATOM  39481  CB  ALA F  76     172.050 108.567 -82.998  1.00 81.98      FS6
ATOM  39482  C   ALA F  76     173.188 107.172 -84.740  1.00 54.80      FS6
ATOM  39483  O   ALA F  76     174.346 107.494 -84.996  1.00 54.80      FS6
ATOM  39484  N   ARG F  77     172.809 105.901 -84.655  1.00 56.74      FS6
ATOM  39485  CA  ARG F  77     173.770 104.848 -84.925  1.00 56.74      FS6
ATOM  39486  CB  ARG F  77     173.147 103.466 -84.730  1.00110.13      FS6
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ATOM  39487  CG  ARG F  77     172.902 103.132 -83.277  1.00110.13       FS6
ATOM  39488  CD  ARG F  77     172.292 101.756 -83.077  1.00110.13       FS6
ATOM  39489  NE  ARG F  77     172.122 101.458 -81.653  1.00110.13       FS6
ATOM  39490  CZ  ARG F  77     173.104 101.100 -80.826  1.00110.13       FS6
ATOM  39491  NH1 ARG F  77     174.350 100.979 -81.272  1.00110.13       FS6
ATOM  39492  NH2 ARG F  77     172.843 100.873 -79.541  1.00110.13       FS6
ATOM  39493  C   ARG F  77     174.139 105.046 -86.378  1.00 56.74       FS6
ATOM  39494  O   ARG F  77     175.279 105.390 -86.701  1.00 56.74       FS6
ATOM  39495  N   GLU F  78     173.146 104.868 -87.248  1.00 46.82       FS6
ATOM  39496  CA  GLU F  78     173.327 105.005 -88.690  1.00 46.82       FS6
ATOM  39497  CB  GLU F  78     171.963 105.132 -89.369  1.00130.71       FS6
ATOM  39498  CG  GLU F  78     172.009 105.040 -90.886  1.00130.71       FS6
ATOM  39499  CD  GLU F  78     172.545 103.705 -91.386  1.00130.71       FS6
ATOM  39500  OE1 GLU F  78     171.987 102.653 -91.006  1.00130.71       FS6
ATOM  39501  OE2 GLU F  78     173.522 103.709 -92.168  1.00130.71       FS6
ATOM  39502  C   GLU F  78     174.219 106.182 -89.085  1.00 46.82       FS6
ATOM  39503  O   GLU F  78     175.138 106.036 -89.884  1.00 46.82       FS6
ATOM  39504  N   LEU F  79     173.948 107.353 -88.528  1.00 63.72       FS6
ATOM  39505  CA  LEU F  79     174.751 108.520 -88.853  1.00 63.72       FS6
ATOM  39506  CB  LEU F  79     174.250 109.755 -88.103  1.00 50.45       FS6
ATOM  39507  CG  LEU F  79     173.055 110.493 -88.684  1.00 50.45       FS6
ATOM  39508  CD1 LEU F  79     172.878 111.822 -87.964  1.00 50.45       FS6
ATOM  39509  CD2 LEU F  79     173.300 110.736 -90.158  1.00 50.45       FS6
ATOM  39510  C   LEU F  79     176.217 108.320 -88.517  1.00 63.72       FS6
ATOM  39511  O   LEU F  79     177.099 108.695 -89.289  1.00 63.72       FS6
ATOM  39512  N   ARG F  80     176.476 107.728 -87.360  1.00 72.35       FS6
ATOM  39513  CA  ARG F  80     177.841 107.535 -86.914  1.00 72.35       FS6
ATOM  39514  CB  ARG F  80     177.850 107.115 -85.440  1.00 67.53       FS6
ATOM  39515  CG  ARG F  80     177.455 108.224 -84.453  1.00 67.53       FS6
ATOM  39516  CD  ARG F  80     177.836 107.836 -83.019  1.00 67.53       FS6
ATOM  39517  NE  ARG F  80     176.689 107.580 -82.144  1.00 67.53       FS6
ATOM  39518  CZ  ARG F  80     175.961 108.534 -81.572  1.00 67.53       FS6
ATOM  39519  NH1 ARG F  80     176.268 109.807 -81.789  1.00 67.53       FS6
ATOM  39520  NH2 ARG F  80     174.935 108.221 -80.781  1.00 67.53       FS6
ATOM  39521  C   ARG F  80     178.688 106.572 -87.738  1.00 72.35       FS6
ATOM  39522  O   ARG F  80     179.903 106.750 -87.838  1.00 72.35       FS6
ATOM  39523  N   ILE F  81     178.062 105.565 -88.334  1.00 74.99       FS6
ATOM  39524  CA  ILE F  81     178.790 104.577 -89.136  1.00 74.99       FS6
ATOM  39525  CB  ILE F  81     177.838 103.808 -90.050  1.00 44.29       FS6
ATOM  39526  CG2 ILE F  81     178.535 102.582 -90.589  1.00 44.29       FS6
ATOM  39527  CG1 ILE F  81     176.590 103.401 -89.271  1.00 44.29       FS6
ATOM  39528  CD1 ILE F  81     175.459 102.906 -90.142  1.00 44.29       FS6
ATOM  39529  C   ILE F  81     179.889 105.174 -90.025  1.00 74.99       FS6
ATOM  39530  O   ILE F  81     181.052 104.765 -89.964  1.00 74.99       FS6
ATOM  39531  N   ARG F  82     179.499 106.130 -90.861  1.00 90.93       FS6
ATOM  39532  CA  ARG F  82     180.417 106.800 -91.774  1.00 90.93       FS6
ATOM  39533  CB  ARG F  82     179.751 108.074 -92.303  1.00136.37       FS6
ATOM  39534  CG  ARG F  82     178.557 107.818 -93.222  1.00136.37       FS6
ATOM  39535  CD  ARG F  82     179.021 107.609 -94.654  1.00136.37       FS6
ATOM  39536  NE  ARG F  82     180.063 106.593 -94.753  1.00136.37       FS6
ATOM  39537  CZ  ARG F  82     180.913 106.488 -95.769  1.00136.37       FS6
ATOM  39538  NH1 ARG F  82     180.850 107.338 -96.784  1.00136.37       FS6
ATOM  39539  NH2 ARG F  82     181.835 105.536 -95.763  1.00136.37       FS6
ATOM  39540  C   ARG F  82     181.766 107.129 -91.125  1.00 90.93       FS6
ATOM  39541  O   ARG F  82     181.829 107.820 -90.106  1.00 90.93       FS6
ATOM  39542  N   ASP F  83     182.841 106.632 -91.734  1.00 97.65       FS6
ATOM  39543  CA  ASP F  83     184.201 106.835 -91.232  1.00 97.65       FS6
ATOM  39544  CB  ASP F  83     185.188 106.001 -92.048  1.00201.30       FS6
ATOM  39545  CG  ASP F  83     184.984 104.512 -91.860  1.00201.30       FS6
ATOM  39546  OD1 ASP F  83     185.731 103.726 -92.479  1.00201.30       FS6
ATOM  39547  OD2 ASP F  83     184.077 104.128 -91.090  1.00201.30       FS6
ATOM  39548  C   ASP F  83     184.670 108.281 -91.210  1.00 97.65       FS6
ATOM  39549  O   ASP F  83     185.387 108.692 -90.299  1.00 97.65       FS6
ATOM  39550  N   ASN F  84     184.279 109.049 -92.218  1.00 82.57       FS6
ATOM  39551  CA  ASN F  84     184.669 110.447 -92.288  1.00 82.57       FS6
ATOM  39552  CB  ASN F  84     184.504 110.960 -93.713  1.00161.06       FS6
ATOM  39553  CG  ASN F  84     185.339 110.180 -94.699  1.00161.06       FS6
ATOM  39554  OD1 ASN F  84     186.568 110.188 -94.628  1.00161.06       FS6
ATOM  39555  ND2 ASN F  84     184.678 109.486 -95.618  1.00161.06       FS6
ATOM  39556  C   ASN F  84     183.826 111.270 -91.321  1.00 82.57       FS6
ATOM  39557  O   ASN F  84     183.987 112.490 -91.215  1.00 82.57       FS6
ATOM  39558  N   VAL F  85     182.918 110.591 -90.624  1.00 63.75       FS6
ATOM  39559  CA  VAL F  85     182.062 111.243 -89.642  1.00 63.75       FS6
ATOM  39560  CB  VAL F  85     180.692 110.538 -89.524  1.00 65.52       FS6
ATOM  39561  CG1 VAL F  85     179.992 110.972 -88.254  1.00 65.52       FS6
ATOM  39562  CG2 VAL F  85     179.827 110.885 -90.715  1.00 65.52       FS6
ATOM  39563  C   VAL F  85     182.782 111.171 -88.306  1.00 63.75       FS6
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ATOM  39564  O   VAL F  85     182.930 110.094 -87.726  1.00 63.75      FS6
ATOM  39565  N   ARG F  86     183.238 112.321 -87.831  1.00 83.39      FS6
ATOM  39566  CA  ARG F  86     183.958 112.390 -86.571  1.00 83.39      FS6
ATOM  39567  CB  ARG F  86     184.825 113.655 -86.540  1.00110.51      FS6
ATOM  39568  CG  ARG F  86     185.836 113.768 -87.690  1.00110.51      FS6
ATOM  39569  CD  ARG F  86     186.836 112.612 -87.691  1.00110.51      FS6
ATOM  39570  NE  ARG F  86     187.861 112.725 -88.734  1.00110.51      FS6
ATOM  39571  CZ  ARG F  86     188.825 113.644 -88.754  1.00110.51      FS6
ATOM  39572  NH1 ARG F  86     188.911 114.548 -87.785  1.00110.51      FS6
ATOM  39573  NH2 ARG F  86     189.710 113.655 -89.742  1.00110.51      FS6
ATOM  39574  C   ARG F  86     183.029 112.338 -85.346  1.00 83.39      FS6
ATOM  39575  O   ARG F  86     183.222 111.493 -84.462  1.00 83.39      FS6
ATOM  39576  N   ARG F  87     182.034 113.229 -85.287  1.00 64.52      FS6
ATOM  39577  CA  ARG F  87     181.092 113.251 -84.164  1.00 64.52      FS6
ATOM  39578  CB  ARG F  87     181.603 114.154 -83.043  1.00 53.52      FS6
ATOM  39579  CG  ARG F  87     182.217 113.371 -81.900  1.00 53.52      FS6
ATOM  39580  CD  ARG F  87     182.130 114.120 -80.574  1.00 53.52      FS6
ATOM  39581  NE  ARG F  87     183.368 114.811 -80.205  1.00 53.52      FS6
ATOM  39582  CZ  ARG F  87     184.561 114.228 -80.112  1.00 53.52      FS6
ATOM  39583  NH1 ARG F  87     184.696 112.931 -80.371  1.00 53.52      FS6
ATOM  39584  NH2 ARG F  87     185.617 114.938 -79.734  1.00 53.52      FS6
ATOM  39585  C   ARG F  87     179.664 113.655 -84.508  1.00 64.52      FS6
ATOM  39586  O   ARG F  87     179.433 114.540 -85.329  1.00 64.52      FS6
ATOM  39587  N   VAL F  88     178.709 112.994 -83.862  1.00 60.72      FS6
ATOM  39588  CA  VAL F  88     177.293 113.268 -84.069  1.00 60.72      FS6
ATOM  39589  CB  VAL F  88     176.618 112.119 -84.815  1.00 78.60      FS6
ATOM  39590  CG1 VAL F  88     175.147 112.415 -84.991  1.00 78.60      FS6
ATOM  39591  CG2 VAL F  88     177.282 111.919 -86.152  1.00 78.60      FS6
ATOM  39592  C   VAL F  88     176.588 113.433 -82.727  1.00 60.72      FS6
ATOM  39593  O   VAL F  88     176.784 112.622 -81.822  1.00 60.72      FS6
ATOM  39594  N   MET F  89     175.768 114.475 -82.598  1.00 76.18      FS6
ATOM  39595  CA  MET F  89     175.030 114.733 -81.357  1.00 76.18      FS6
ATOM  39596  CB  MET F  89     175.792 115.724 -80.486  1.00 60.19      FS6
ATOM  39597  CG  MET F  89     175.122 116.006 -79.162  1.00 60.19      FS6
ATOM  39598  SD  MET F  89     176.198 116.957 -78.074  1.00 60.19      FS6
ATOM  39599  CE  MET F  89     175.635 118.625 -78.403  1.00 60.19      FS6
ATOM  39600  C   MET F  89     173.639 115.278 -81.654  1.00 76.18      FS6
ATOM  39601  O   MET F  89     173.492 116.272 -82.366  1.00 76.18      FS6
ATOM  39602  N   VAL F  90     172.619 114.644 -81.085  1.00 51.07      FS6
ATOM  39603  CA  VAL F  90     171.245 115.061 -81.344  1.00 51.07      FS6
ATOM  39604  CB  VAL F  90     170.452 113.906 -81.996  1.00 72.26      FS6
ATOM  39605  CG1 VAL F  90     169.150 114.428 -82.570  1.00 72.26      FS6
ATOM  39606  CG2 VAL F  90     171.285 113.251 -83.075  1.00 72.26      FS6
ATOM  39607  C   VAL F  90     170.431 115.586 -80.153  1.00 51.07      FS6
ATOM  39608  O   VAL F  90     169.603 114.875 -79.586  1.00 51.07      FS6
ATOM  39609  N   VAL F  91     170.654 116.842 -79.794  1.00 48.76      FS6
ATOM  39610  CA  VAL F  91     169.922 117.465 -78.702  1.00 48.76      FS6
ATOM  39611  CB  VAL F  91     170.416 118.915 -78.483  1.00 79.02      FS6
ATOM  39612  CG1 VAL F  91     169.661 119.567 -77.336  1.00 79.02      FS6
ATOM  39613  CG2 VAL F  91     171.901 118.918 -78.218  1.00 79.02      FS6
ATOM  39614  C   VAL F  91     168.425 117.523 -79.054  1.00 48.76      FS6
ATOM  39615  O   VAL F  91     168.062 117.449 -80.225  1.00 48.76      FS6
ATOM  39616  N   LYS F  92     167.553 117.625 -78.051  1.00 49.92      FS6
ATOM  39617  CA  LYS F  92     166.128 117.758 -78.327  1.00 49.92      FS6
ATOM  39618  CB  LYS F  92     165.267 117.278 -77.157  1.00 93.61      FS6
ATOM  39619  CG  LYS F  92     165.293 115.778 -76.943  1.00 93.61      FS6
ATOM  39620  CD  LYS F  92     164.010 115.254 -76.288  1.00 93.61      FS6
ATOM  39621  CE  LYS F  92     163.832 115.737 -74.856  1.00 93.61      FS6
ATOM  39622  NZ  LYS F  92     163.639 117.213 -74.765  1.00 93.61      FS6
ATOM  39623  C   LYS F  92     165.988 119.256 -78.473  1.00 49.92      FS6
ATOM  39624  O   LYS F  92     166.738 120.004 -77.851  1.00 49.92      FS6
ATOM  39625  N   SER F  93     165.061 119.711 -79.299  1.00 47.42      FS6
ATOM  39626  CA  SER F  93     164.896 121.146 -79.464  1.00 47.42      FS6
ATOM  39627  CB  SER F  93     163.779 121.421 -80.462  1.00115.50      FS6
ATOM  39628  OG  SER F  93     164.061 120.780 -81.690  1.00115.50      FS6
ATOM  39629  C   SER F  93     164.566 121.760 -78.105  1.00 47.42      FS6
ATOM  39630  O   SER F  93     163.997 121.090 -77.243  1.00 47.42      FS6
ATOM  39631  N   GLN F  94     164.920 123.026 -77.903  1.00 50.49      FS6
ATOM  39632  CA  GLN F  94     164.634 123.679 -76.628  1.00 50.49      FS6
ATOM  39633  CB  GLN F  94     165.778 123.417 -75.648  1.00165.05      FS6
ATOM  39634  CG  GLN F  94     165.888 121.985 -75.164  1.00165.05      FS6
ATOM  39635  CD  GLN F  94     167.189 121.724 -74.432  1.00165.05      FS6
ATOM  39636  OE1 GLN F  94     168.259 121.664 -75.043  1.00165.05      FS6
ATOM  39637  NE2 GLN F  94     167.107 121.580 -73.114  1.00165.05      FS6
ATOM  39638  C   GLN F  94     164.408 125.191 -76.729  1.00 50.49      FS6
ATOM  39639  O   GLN F  94     165.290 125.923 -77.178  1.00 50.49      FS6
ATOM  39640  N   GLU F  95     163.233 125.662 -76.309  1.00 68.52      FS6
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ATOM  39641  CA  GLU F  95     162.953 127.096 -76.339  1.00 68.52      FS6
ATOM  39642  CB  GLU F  95     161.688 127.427 -75.543  1.00201.30      FS6
ATOM  39643  CG  GLU F  95     160.387 127.030 -76.228  1.00201.30      FS6
ATOM  39644  CD  GLU F  95     160.266 125.533 -76.449  1.00201.30      FS6
ATOM  39645  OE1 GLU F  95     160.301 124.777 -75.455  1.00201.30      FS6
ATOM  39646  OE2 GLU F  95     160.132 125.113 -77.619  1.00201.30      FS6
ATOM  39647  C   GLU F  95     164.162 127.772 -75.704  1.00 68.52      FS6
ATOM  39648  O   GLU F  95     164.514 127.497 -74.556  1.00 68.52      FS6
ATOM  39649  N   PRO F  96     164.816 128.667 -76.448  1.00 44.06      FS6
ATOM  39650  CD  PRO F  96     164.259 129.318 -77.644  1.00 90.44      FS6
ATOM  39651  CA  PRO F  96     165.999 129.387 -75.974  1.00 44.06      FS6
ATOM  39652  CB  PRO F  96     166.248 130.394 -77.086  1.00 90.44      FS6
ATOM  39653  CG  PRO F  96     164.860 130.698 -77.556  1.00 90.44      FS6
ATOM  39654  C   PRO F  96     165.810 130.069 -74.628  1.00 44.06      FS6
ATOM  39655  O   PRO F  96     164.893 130.860 -74.452  1.00 44.06      FS6
ATOM  39656  N   PHE F  97     166.682 129.767 -73.676  1.00 57.57      FS6
ATOM  39657  CA  PHE F  97     166.594 130.383 -72.362  1.00 57.57      FS6
ATOM  39658  CB  PHE F  97     167.114 129.429 -71.288  1.00 61.11      FS6
ATOM  39659  CG  PHE F  97     166.955 129.956 -69.898  1.00 61.11      FS6
ATOM  39660  CD1 PHE F  97     165.824 129.651 -69.153  1.00 61.11      FS6
ATOM  39661  CD2 PHE F  97     167.911 130.808 -69.352  1.00 61.11      FS6
ATOM  39662  CE1 PHE F  97     165.647 130.188 -67.887  1.00 61.11      FS6
ATOM  39663  CE2 PHE F  97     167.745 131.353 -68.089  1.00 61.11      FS6
ATOM  39664  CZ  PHE F  97     166.612 131.045 -67.353  1.00 61.11      FS6
ATOM  39665  C   PHE F  97     167.417 131.670 -72.332  1.00 57.57      FS6
ATOM  39666  O   PHE F  97     168.626 131.634 -72.123  1.00 57.57      FS6
ATOM  39667  N   LEU F  98     166.765 132.807 -72.540  1.00 94.77      FS6
ATOM  39668  CA  LEU F  98     167.461 134.088 -72.529  1.00 94.77      FS6
ATOM  39669  CB  LEU F  98     166.485 135.215 -72.828  1.00 94.89      FS6
ATOM  39670  CG  LEU F  98     166.492 135.691 -74.272  1.00 94.89      FS6
ATOM  39671  CD1 LEU F  98     165.426 136.765 -74.477  1.00 94.89      FS6
ATOM  39672  CD2 LEU F  98     167.880 136.223 -74.588  1.00 94.89      FS6
ATOM  39673  C   LEU F  98     168.147 134.365 -71.202  1.00 94.77      FS6
ATOM  39674  O   LEU F  98     167.986 133.614 -70.242  1.00 94.77      FS6
ATOM  39675  N   ALA F  99     168.900 135.460 -71.150  1.00 75.52      FS6
ATOM  39676  CA  ALA F  99     169.615 135.842 -69.936  1.00 75.52      FS6
ATOM  39677  CB  ALA F  99     170.619 134.787 -69.583  1.00 17.80      FS6
ATOM  39678  C   ALA F  99     170.332 137.160 -70.141  1.00 75.52      FS6
ATOM  39679  O   ALA F  99     170.906 137.396 -71.205  1.00 75.52      FS6
ATOM  39680  N   ASN F 100     170.330 138.014 -69.124  1.00133.53      FS6
ATOM  39681  CA  ASN F 100     171.002 139.296 -69.266  1.00133.53      FS6
ATOM  39682  CB  ASN F 100     172.511 139.066 -69.439  1.00129.96      FS6
ATOM  39683  CG  ASN F 100     173.306 140.356 -69.464  1.00129.96      FS6
ATOM  39684  OD1 ASN F 100     173.210 141.141 -70.403  1.00129.96      FS6
ATOM  39685  ND2 ASN F 100     174.100 140.580 -68.425  1.00129.96      FS6
ATOM  39686  C   ASN F 100     170.402 139.921 -70.524  1.00133.53      FS6
ATOM  39687  O   ASN F 100     171.109 140.475 -71.364  1.00133.53      FS6
ATOM  39688  N   ALA F 101     169.083 139.803 -70.647  1.00201.07      FS6
ATOM  39689  CA  ALA F 101     168.357 140.330 -71.797  1.00201.07      FS6
ATOM  39690  CB  ALA F 101     167.813 139.185 -72.633  1.00107.17      FS6
ATOM  39691  C   ALA F 101     167.215 141.238 -71.372  1.00201.07      FS6
ATOM  39692  O   ALA F 101     167.121 141.547 -70.165  1.00201.07      FS6
ATOM  39693  OXT ALA F 101     166.428 141.625 -72.261  1.00107.17      FS6
TER   39693       ALA F 101                                              FS6
ATOM  39694  CB  ALA G   2     217.099 136.596 -23.508  1.00 69.53      GS7
ATOM  39695  C   ALA G   2     214.676 136.687 -22.930  1.00 55.80      GS7
ATOM  39696  O   ALA G   2     214.369 137.248 -23.983  1.00 55.80      GS7
ATOM  39697  N   ALA G   2     216.356 135.770 -21.308  1.00 55.80      GS7
ATOM  39698  CA  ALA G   2     216.097 136.780 -22.379  1.00 55.80      GS7
ATOM  39699  N   ARG G   3     213.807 135.997 -22.202  1.00 49.38      GS7
ATOM  39700  CA  ARG G   3     212.433 135.808 -22.642  1.00 49.38      GS7
ATOM  39701  CB  ARG G   3     211.717 134.815 -21.720  1.00 42.38      GS7
ATOM  39702  CG  ARG G   3     210.393 134.314 -22.269  1.00 42.38      GS7
ATOM  39703  CD  ARG G   3     209.589 133.609 -21.191  1.00 42.38      GS7
ATOM  39704  NE  ARG G   3     210.119 132.302 -20.802  1.00 42.38      GS7
ATOM  39705  CZ  ARG G   3     210.140 131.239 -21.601  1.00 42.38      GS7
ATOM  39706  NH1 ARG G   3     209.666 131.321 -22.837  1.00 42.38      GS7
ATOM  39707  NH2 ARG G   3     210.626 130.089 -21.167  1.00 42.38      GS7
ATOM  39708  C   ARG G   3     211.614 137.087 -22.727  1.00 49.38      GS7
ATOM  39709  O   ARG G   3     210.857 137.283 -23.673  1.00 49.38      GS7
ATOM  39710  N   ARG G   4     211.766 137.960 -21.743  1.00 53.91      GS7
ATOM  39711  CA  ARG G   4     210.996 139.192 -21.711  1.00 53.91      GS7
ATOM  39712  CB  ARG G   4     210.979 139.748 -20.288  1.00121.71      GS7
ATOM  39713  CG  ARG G   4     210.110 140.974 -20.116  1.00121.71      GS7
ATOM  39714  CD  ARG G   4     210.041 141.374 -18.659  1.00121.71      GS7
ATOM  39715  NE  ARG G   4     209.353 140.371 -17.849  1.00121.71      GS7
ATOM  39716  CZ  ARG G   4     208.055 140.098 -17.939  1.00121.71      GS7
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ATOM  39717  NH1 ARG G   4     207.295 140.753 -18.808  1.00121.71      GS7
ATOM  39718  NH2 ARG G   4     207.516 139.172 -17.158  1.00121.71      GS7
ATOM  39719  C   ARG G   4     211.466 140.268 -22.679  1.00 53.91      GS7
ATOM  39720  O   ARG G   4     210.749 140.617 -23.614  1.00 53.91      GS7
ATOM  39721  N   ARG G   5     212.670 140.789 -22.459  1.00126.42      GS7
ATOM  39722  CA  ARG G   5     213.220 141.856 -23.294  1.00126.42      GS7
ATOM  39723  CB  ARG G   5     214.008 142.820 -22.404  1.00201.30      GS7
ATOM  39724  CG  ARG G   5     213.152 143.387 -21.280  1.00201.30      GS7
ATOM  39725  CD  ARG G   5     213.958 143.861 -20.082  1.00201.30      GS7
ATOM  39726  NE  ARG G   5     213.073 144.221 -18.974  1.00201.30      GS7
ATOM  39727  CZ  ARG G   5     213.485 144.592 -17.766  1.00201.30      GS7
ATOM  39728  NH1 ARG G   5     214.781 144.657 -17.493  1.00201.30      GS7
ATOM  39729  NH2 ARG G   5     212.598 144.896 -16.826  1.00201.30      GS7
ATOM  39730  C   ARG G   5     214.094 141.359 -24.439  1.00126.42      GS7
ATOM  39731  O   ARG G   5     213.997 140.203 -24.854  1.00126.42      GS7
ATOM  39732  N   ARG G   6     214.940 142.244 -24.956  1.00 61.55      GS7
ATOM  39733  CA  ARG G   6     215.834 141.886 -26.052  1.00 61.55      GS7
ATOM  39734  CB  ARG G   6     215.355 142.541 -27.351  1.00201.30      GS7
ATOM  39735  CG  ARG G   6     216.071 142.060 -28.606  1.00201.30      GS7
ATOM  39736  CD  ARG G   6     215.404 142.614 -29.858  1.00201.30      GS7
ATOM  39737  NE  ARG G   6     216.143 142.290 -31.078  1.00201.30      GS7
ATOM  39738  CZ  ARG G   6     215.752 142.633 -32.303  1.00201.30      GS7
ATOM  39739  NH1 ARG G   6     214.625 143.311 -32.480  1.00201.30      GS7
ATOM  39740  NH2 ARG G   6     216.493 142.302 -33.354  1.00201.30      GS7
ATOM  39741  C   ARG G   6     217.262 142.316 -25.730  1.00 61.55      GS7
ATOM  39742  O   ARG G   6     217.951 142.893 -26.569  1.00 61.55      GS7
ATOM  39743  N   ALA G   7     217.685 142.010 -24.503  1.00131.98      GS7
ATOM  39744  CA  ALA G   7     219.013 142.335 -23.965  1.00131.98      GS7
ATOM  39745  CB  ALA G   7     219.807 141.042 -23.686  1.00 37.41      GS7
ATOM  39746  C   ALA G   7     219.870 143.307 -24.775  1.00131.98      GS7
ATOM  39747  O   ALA G   7     220.282 143.020 -25.900  1.00131.98      GS7
ATOM  39748  N   GLU G   8     220.137 144.462 -24.173  1.00100.84      GS7
ATOM  39749  CA  GLU G   8     220.945 145.498 -24.796  1.00100.84      GS7
ATOM  39750  CB  GLU G   8     220.837 146.812 -24.013  1.00201.30      GS7
ATOM  39751  CG  GLU G   8     219.534 147.009 -23.239  1.00201.30      GS7
ATOM  39752  CD  GLU G   8     219.588 146.444 -21.823  1.00201.30      GS7
ATOM  39753  OE1 GLU G   8     219.781 145.218 -21.669  1.00201.30      GS7
ATOM  39754  OE2 GLU G   8     219.437 147.231 -20.862  1.00201.30      GS7
ATOM  39755  C   GLU G   8     222.389 145.020 -24.770  1.00100.84      GS7
ATOM  39756  O   GLU G   8     222.730 144.096 -24.030  1.00100.84      GS7
ATOM  39757  N   VAL G   9     223.242 145.657 -25.562  1.00 71.03      GS7
ATOM  39758  CA  VAL G   9     224.640 145.260 -25.606  1.00 71.03      GS7
ATOM  39759  CB  VAL G   9     225.182 145.308 -27.045  1.00 62.89      GS7
ATOM  39760  CG1 VAL G   9     226.254 144.251 -27.230  1.00 62.89      GS7
ATOM  39761  CG2 VAL G   9     224.051 145.106 -28.031  1.00 62.89      GS7
ATOM  39762  C   VAL G   9     225.497 146.163 -24.731  1.00 71.03      GS7
ATOM  39763  O   VAL G   9     225.573 147.369 -24.955  1.00 71.03      GS7
ATOM  39764  N   ARG G  10     226.131 145.572 -23.725  1.00 75.22      GS7
ATOM  39765  CA  ARG G  10     227.000 146.325 -22.829  1.00 75.22      GS7
ATOM  39766  CB  ARG G  10     227.801 145.372 -21.931  1.00 66.24      GS7
ATOM  39767  CG  ARG G  10     227.053 144.770 -20.762  1.00 66.24      GS7
ATOM  39768  CD  ARG G  10     227.949 143.856 -19.936  1.00 66.24      GS7
ATOM  39769  NE  ARG G  10     227.299 143.489 -18.683  1.00 66.24      GS7
ATOM  39770  CZ  ARG G  10     227.106 144.338 -17.680  1.00 66.24      GS7
ATOM  39771  NH1 ARG G  10     227.531 145.588 -17.795  1.00 66.24      GS7
ATOM  39772  NH2 ARG G  10     226.466 143.960 -16.577  1.00 66.24      GS7
ATOM  39773  C   ARG G  10     227.987 147.137 -23.661  1.00 75.22      GS7
ATOM  39774  O   ARG G  10     228.772 146.562 -24.412  1.00 75.22      GS7
ATOM  39775  N   GLN G  11     227.951 148.460 -23.548  1.00 63.43      GS7
ATOM  39776  CA  GLN G  11     228.906 149.283 -24.290  1.00 63.43      GS7
ATOM  39777  CB  GLN G  11     228.293 150.632 -24.662  1.00 96.56      GS7
ATOM  39778  CG  GLN G  11     228.087 150.811 -26.161  1.00 96.56      GS7
ATOM  39779  CD  GLN G  11     227.318 149.659 -26.797  1.00 96.56      GS7
ATOM  39780  OE1 GLN G  11     226.219 149.317 -26.365  1.00 96.56      GS7
ATOM  39781  NE2 GLN G  11     227.897 149.061 -27.832  1.00 96.56      GS7
ATOM  39782  C   GLN G  11     230.106 149.469 -23.369  1.00 63.43      GS7
ATOM  39783  O   GLN G  11     229.938 149.555 -22.161  1.00 63.43      GS7
ATOM  39784  N   LEU G  12     231.314 149.533 -23.915  1.00 60.37      GS7
ATOM  39785  CA  LEU G  12     232.471 149.654 -23.040  1.00 60.37      GS7
ATOM  39786  CB  LEU G  12     233.261 148.348 -23.059  1.00 42.18      GS7
ATOM  39787  CG  LEU G  12     232.551 147.215 -23.796  1.00 42.18      GS7
ATOM  39788  CD1 LEU G  12     232.739 147.437 -25.300  1.00 42.18      GS7
ATOM  39789  CD2 LEU G  12     233.094 145.850 -23.353  1.00 42.18      GS7
ATOM  39790  C   LEU G  12     233.408 150.815 -23.308  1.00 60.37      GS7
ATOM  39791  O   LEU G  12     233.479 151.335 -24.419  1.00 60.37      GS7
ATOM  39792  N   GLN G  13     234.133 151.209 -22.267  1.00 88.00      GS7
ATOM  39793  CA  GLN G  13     235.072 152.313 -22.358  1.00 88.00      GS7
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ATOM  39794  CB  GLN G  13     235.589 152.670 -20.963  1.00163.63      GS7
ATOM  39795  CG  GLN G  13     234.485 152.850 -19.926  1.00163.63      GS7
ATOM  39796  CD  GLN G  13     233.451 153.891 -20.329  1.00163.63      GS7
ATOM  39797  OE1 GLN G  13     233.765 155.072 -20.481  1.00163.63      GS7
ATOM  39798  NE2 GLN G  13     232.210 153.453 -20.502  1.00163.63      GS7
ATOM  39799  C   GLN G  13     236.232 151.931 -23.267  1.00 88.00      GS7
ATOM  39800  O   GLN G  13     236.926 150.949 -23.018  1.00 88.00      GS7
ATOM  39801  N   PRO G  14     236.453 152.707 -24.339  1.00 65.93      GS7
ATOM  39802  CD  PRO G  14     235.720 153.929 -24.698  1.00 65.93      GS7
ATOM  39803  CA  PRO G  14     237.531 152.459 -25.300  1.00 65.93      GS7
ATOM  39804  CB  PRO G  14     237.487 153.701 -26.199  1.00 65.93      GS7
ATOM  39805  CG  PRO G  14     236.788 154.734 -25.354  1.00 65.93      GS7
ATOM  39806  C   PRO G  14     238.917 152.195 -24.703  1.00 65.93      GS7
ATOM  39807  O   PRO G  14     239.114 152.276 -23.491  1.00 65.93      GS7
ATOM  39808  N   ASP G  15     239.869 151.876 -25.575  1.00 70.83      GS7
ATOM  39809  CA  ASP G  15     241.233 151.559 -25.169  1.00 70.83      GS7
ATOM  39810  CB  ASP G  15     242.038 151.104 -26.381  1.00 97.37      GS7
ATOM  39811  CG  ASP G  15     243.345 150.465 -25.992  1.00 97.37      GS7
ATOM  39812  OD1 ASP G  15     243.303 149.421 -25.312  1.00 97.37      GS7
ATOM  39813  OD2 ASP G  15     244.412 150.997 -26.351  1.00 97.37      GS7
ATOM  39814  C   ASP G  15     241.977 152.698 -24.487  1.00 70.83      GS7
ATOM  39815  O   ASP G  15     241.986 153.824 -24.976  1.00 70.83      GS7
ATOM  39816  N   LEU G  16     242.617 152.397 -23.361  1.00 69.88      GS7
ATOM  39817  CA  LEU G  16     243.382 153.402 -22.627  1.00 69.88      GS7
ATOM  39818  CB  LEU G  16     243.888 152.833 -21.295  1.00171.41      GS7
ATOM  39819  CG  LEU G  16     242.911 152.380 -20.205  1.00171.41      GS7
ATOM  39820  CD1 LEU G  16     242.023 153.547 -19.819  1.00171.41      GS7
ATOM  39821  CD2 LEU G  16     242.083 151.194 -20.687  1.00171.41      GS7
ATOM  39822  C   LEU G  16     244.585 153.855 -23.453  1.00 69.88      GS7
ATOM  39823  O   LEU G  16     245.293 154.782 -23.068  1.00 69.88      GS7
ATOM  39824  N   VAL G  17     244.815 153.199 -24.588  1.00 71.81      GS7
ATOM  39825  CA  VAL G  17     245.953 153.529 -25.447  1.00 71.81      GS7
ATOM  39826  CB  VAL G  17     246.960 152.369 -25.493  1.00 67.96      GS7
ATOM  39827  CG1 VAL G  17     248.107 152.717 -26.407  1.00 67.96      GS7
ATOM  39828  CG2 VAL G  17     247.475 152.084 -24.101  1.00 67.96      GS7
ATOM  39829  C   VAL G  17     245.585 153.879 -26.882  1.00 71.81      GS7
ATOM  39830  O   VAL G  17     245.973 154.924 -27.390  1.00 71.81      GS7
ATOM  39831  N   TYR G  18     244.853 152.992 -27.539  1.00 54.85      GS7
ATOM  39832  CA  TYR G  18     244.439 153.214 -28.914  1.00 54.85      GS7
ATOM  39833  CB  TYR G  18     244.385 151.879 -29.667  1.00 70.89      GS7
ATOM  39834  CG  TYR G  18     245.700 151.128 -29.642  1.00 70.89      GS7
ATOM  39835  CD1 TYR G  18     246.317 150.820 -28.432  1.00 70.89      GS7
ATOM  39836  CE1 TYR G  18     247.547 150.200 -28.386  1.00 70.89      GS7
ATOM  39837  CD2 TYR G  18     246.356 150.780 -30.819  1.00 70.89      GS7
ATOM  39838  CE2 TYR G  18     247.598 150.152 -30.786  1.00 70.89      GS7
ATOM  39839  CZ  TYR G  18     248.189 149.871 -29.559  1.00 70.89      GS7
ATOM  39840  OH  TYR G  18     249.441 149.299 -29.483  1.00 70.89      GS7
ATOM  39841  C   TYR G  18     243.070 153.874 -28.882  1.00 54.85      GS7
ATOM  39842  O   TYR G  18     242.598 154.402 -29.888  1.00 54.85      GS7
ATOM  39843  N   GLY G  19     242.446 153.854 -27.708  1.00 69.78      GS7
ATOM  39844  CA  GLY G  19     241.135 154.460 -27.549  1.00 69.78      GS7
ATOM  39845  C   GLY G  19     240.088 153.719 -28.347  1.00 69.78      GS7
ATOM  39846  O   GLY G  19     239.100 154.301 -28.791  1.00 69.78      GS7
ATOM  39847  N   ASP G  20     240.311 152.423 -28.526  1.00 84.38      GS7
ATOM  39848  CA  ASP G  20     239.393 151.595 -29.288  1.00 84.38      GS7
ATOM  39849  CB  ASP G  20     240.139 150.851 -30.386  1.00110.99      GS7
ATOM  39850  CG  ASP G  20     239.207 150.185 -31.357  1.00110.99      GS7
ATOM  39851  OD1 ASP G  20     238.391 149.349 -30.923  1.00110.99      GS7
ATOM  39852  OD2 ASP G  20     239.286 150.507 -32.557  1.00110.99      GS7
ATOM  39853  C   ASP G  20     238.698 150.594 -28.396  1.00 84.38      GS7
ATOM  39854  O   ASP G  20     239.339 149.862 -27.644  1.00 84.38      GS7
ATOM  39855  N   VAL G  21     237.378 150.558 -28.503  1.00 86.51      GS7
ATOM  39856  CA  VAL G  21     236.557 149.657 -27.706  1.00 86.51      GS7
ATOM  39857  CB  VAL G  21     235.066 149.839 -28.069  1.00 67.06      GS7
ATOM  39858  CG1 VAL G  21     234.829 151.284 -28.507  1.00 67.06      GS7
ATOM  39859  CG2 VAL G  21     234.644 148.858 -29.168  1.00 67.06      GS7
ATOM  39860  C   VAL G  21     236.955 148.197 -27.915  1.00 86.51      GS7
ATOM  39861  O   VAL G  21     237.089 147.427 -26.962  1.00 86.51      GS7
ATOM  39862  N   LEU G  22     237.146 147.835 -29.177  1.00 66.92      GS7
ATOM  39863  CA  LEU G  22     237.508 146.484 -29.549  1.00 66.92      GS7
ATOM  39864  CB  LEU G  22     237.758 146.421 -31.054  1.00 51.75      GS7
ATOM  39865  CG  LEU G  22     237.964 145.031 -31.651  1.00 51.75      GS7
ATOM  39866  CD1 LEU G  22     236.737 144.170 -31.381  1.00 51.75      GS7
ATOM  39867  CD2 LEU G  22     238.221 145.150 -33.143  1.00 51.75      GS7
ATOM  39868  C   LEU G  22     238.740 146.019 -28.788  1.00 66.92      GS7
ATOM  39869  O   LEU G  22     238.833 144.858 -28.391  1.00 66.92      GS7
ATOM  39870  N   VAL G  23     239.688 146.923 -28.572  1.00 40.81      GS7
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ATOM  39871  CA  VAL G  23     240.894 146.538 -27.858  1.00 40.81      GS7
ATOM  39872  CB  VAL G  23     241.969 147.641 -27.922  1.00 51.96      GS7
ATOM  39873  CG1 VAL G  23     243.228 147.186 -27.192  1.00 51.96      GS7
ATOM  39874  CG2 VAL G  23     242.305 147.938 -29.374  1.00 51.96      GS7
ATOM  39875  C   VAL G  23     240.552 146.198 -26.412  1.00 40.81      GS7
ATOM  39876  O   VAL G  23     241.323 145.551 -25.707  1.00 40.81      GS7
ATOM  39877  N   THR G  24     239.383 146.632 -25.969  1.00 47.57      GS7
ATOM  39878  CA  THR G  24     238.966 146.300 -24.622  1.00 47.57      GS7
ATOM  39879  CB  THR G  24     237.813 147.183 -24.150  1.00 41.35      GS7
ATOM  39880  OG1 THR G  24     238.071 148.542 -24.523  1.00 41.35      GS7
ATOM  39881  CG2 THR G  24     237.673 147.094 -22.632  1.00 41.35      GS7
ATOM  39882  C   THR G  24     238.452 144.882 -24.775  1.00 47.57      GS7
ATOM  39883  O   THR G  24     238.922 143.942 -24.125  1.00 47.57      GS7
ATOM  39884  N   ALA G  25     237.488 144.752 -25.677  1.00 33.36      GS7
ATOM  39885  CA  ALA G  25     236.869 143.475 -25.978  1.00 33.36      GS7
ATOM  39886  CB  ALA G  25     236.189 143.541 -27.339  1.00 33.76      GS7
ATOM  39887  C   ALA G  25     237.910 142.376 -25.974  1.00 33.36      GS7
ATOM  39888  O   ALA G  25     237.761 141.371 -25.286  1.00 33.36      GS7
ATOM  39889  N   PHE G  26     238.975 142.581 -26.737  1.00 46.95      GS7
ATOM  39890  CA  PHE G  26     240.023 141.586 -26.824  1.00 46.95      GS7
ATOM  39891  CB  PHE G  26     241.090 142.013 -27.832  1.00 53.57      GS7
ATOM  39892  CG  PHE G  26     242.007 140.894 -28.243  1.00 53.57      GS7
ATOM  39893  CD1 PHE G  26     241.549 139.874 -29.064  1.00 53.57      GS7
ATOM  39894  CD2 PHE G  26     243.305 140.833 -27.770  1.00 53.57      GS7
ATOM  39895  CE1 PHE G  26     242.366 138.819 -29.400  1.00 53.57      GS7
ATOM  39896  CE2 PHE G  26     244.129 139.777 -28.101  1.00 53.57      GS7
ATOM  39897  CZ  PHE G  26     243.659 138.769 -28.915  1.00 53.57      GS7
ATOM  39898  C   PHE G  26     240.671 141.384 -25.470  1.00 46.95      GS7
ATOM  39899  O   PHE G  26     240.779 140.252 -24.977  1.00 46.95      GS7
ATOM  39900  N   ILE G  27     241.095 142.493 -24.872  1.00 38.74      GS7
ATOM  39901  CA  ILE G  27     241.763 142.445 -23.584  1.00 38.74      GS7
ATOM  39902  CB  ILE G  27     242.014 143.846 -23.029  1.00 72.27      GS7
ATOM  39903  CG2 ILE G  27     242.514 143.747 -21.601  1.00 72.27      GS7
ATOM  39904  CG1 ILE G  27     243.050 144.560 -23.902  1.00 72.27      GS7
ATOM  39905  CD1 ILE G  27     243.297 145.997 -23.528  1.00 72.27      GS7
ATOM  39906  C   ILE G  27     240.970 141.652 -22.583  1.00 38.74      GS7
ATOM  39907  O   ILE G  27     241.520 140.808 -21.881  1.00 38.74      GS7
ATOM  39908  N   ASN G  28     239.671 141.914 -22.522  1.00 63.75      GS7
ATOM  39909  CA  ASN G  28     238.808 141.200 -21.594  1.00 63.75      GS7
ATOM  39910  CB  ASN G  28     237.362 141.627 -21.790  1.00 67.60      GS7
ATOM  39911  CG  ASN G  28     237.165 143.087 -21.518  1.00 67.60      GS7
ATOM  39912  OD1 ASN G  28     237.403 143.557 -20.405  1.00 67.60      GS7
ATOM  39913  ND2 ASN G  28     236.741 143.826 -22.533  1.00 67.60      GS7
ATOM  39914  C   ASN G  28     238.932 139.704 -21.801  1.00 63.75      GS7
ATOM  39915  O   ASN G  28     239.270 138.967 -20.875  1.00 63.75      GS7
ATOM  39916  N   LYS G  29     238.663 139.262 -23.024  1.00 56.71      GS7
ATOM  39917  CA  LYS G  29     238.749 137.850 -23.351  1.00 56.71      GS7
ATOM  39918  CB  LYS G  29     238.516 137.652 -24.838  1.00 49.18      GS7
ATOM  39919  CG  LYS G  29     237.045 137.640 -25.207  1.00 49.18      GS7
ATOM  39920  CD  LYS G  29     236.354 136.419 -24.644  1.00 49.18      GS7
ATOM  39921  CE  LYS G  29     234.991 136.239 -25.278  1.00 49.18      GS7
ATOM  39922  NZ  LYS G  29     234.255 135.067 -24.701  1.00 49.18      GS7
ATOM  39923  C   LYS G  29     240.084 137.251 -22.935  1.00 56.71      GS7
ATOM  39924  O   LYS G  29     240.180 136.054 -22.627  1.00 56.71      GS7
ATOM  39925  N   ILE G  30     241.118 138.079 -22.923  1.00 26.77      GS7
ATOM  39926  CA  ILE G  30     242.414 137.593 -22.495  1.00 26.77      GS7
ATOM  39927  CB  ILE G  30     243.533 138.540 -22.901  1.00 28.18      GS7
ATOM  39928  CG2 ILE G  30     244.861 137.973 -22.443  1.00 28.18      GS7
ATOM  39929  CG1 ILE G  30     243.503 138.755 -24.413  1.00 28.18      GS7
ATOM  39930  CD1 ILE G  30     244.347 139.902 -24.860  1.00 28.18      GS7
ATOM  39931  C   ILE G  30     242.396 137.499 -20.976  1.00 26.77      GS7
ATOM  39932  O   ILE G  30     242.929 136.552 -20.401  1.00 26.77      GS7
ATOM  39933  N   MET G  31     241.772 138.491 -20.340  1.00 45.51      GS7
ATOM  39934  CA  MET G  31     241.674 138.544 -18.888  1.00 45.51      GS7
ATOM  39935  CB  MET G  31     240.895 139.775 -18.446  1.00 70.48      GS7
ATOM  39936  CG  MET G  31     240.326 139.643 -17.041  1.00 70.48      GS7
ATOM  39937  SD  MET G  31     239.580 141.166 -16.430  1.00 70.48      GS7
ATOM  39938  CE  MET G  31     238.154 141.334 -17.526  1.00 70.48      GS7
ATOM  39939  C   MET G  31     240.986 137.327 -18.325  1.00 45.51      GS7
ATOM  39940  O   MET G  31     240.027 136.839 -18.906  1.00 45.51      GS7
ATOM  39941  N   ARG G  32     241.477 136.838 -17.195  1.00 64.06      GS7
ATOM  39942  CA  ARG G  32     240.876 135.688 -16.537  1.00 64.06      GS7
ATOM  39943  CB  ARG G  32     241.600 134.396 -16.919  1.00 71.07      GS7
ATOM  39944  CG  ARG G  32     242.999 134.261 -16.357  1.00 71.07      GS7
ATOM  39945  CD  ARG G  32     243.699 132.987 -16.859  1.00 71.07      GS7
ATOM  39946  NE  ARG G  32     243.988 133.033 -18.296  1.00 71.07      GS7
ATOM  39947  CZ  ARG G  32     244.631 132.080 -18.968  1.00 71.07      GS7
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ATOM  39948  NH1 ARG G  32     245.059 130.992 -18.338  1.00 71.07      GS7
ATOM  39949  NH2 ARG G  32     244.842 132.217 -20.273  1.00 71.07      GS7
ATOM  39950  C   ARG G  32     240.991 135.956 -15.045  1.00 64.06      GS7
ATOM  39951  O   ARG G  32     242.060 136.311 -14.559  1.00 64.06      GS7
ATOM  39952  N   ASP G  33     239.882 135.795 -14.327  1.00 51.86      GS7
ATOM  39953  CA  ASP G  33     239.816 136.059 -12.888  1.00 51.86      GS7
ATOM  39954  CB  ASP G  33     240.963 135.395 -12.126  1.00 68.29      GS7
ATOM  39955  CG  ASP G  33     240.894 133.888 -12.170  1.00 68.29      GS7
ATOM  39956  OD1 ASP G  33     239.783 133.334 -12.049  1.00 68.29      GS7
ATOM  39957  OD2 ASP G  33     241.958 133.252 -12.313  1.00 68.29      GS7
ATOM  39958  C   ASP G  33     239.845 137.560 -12.647  1.00 51.86      GS7
ATOM  39959  O   ASP G  33     240.461 138.042 -11.698  1.00 51.86      GS7
ATOM  39960  N   GLY G  34     239.178 138.291 -13.533  1.00 52.37      GS7
ATOM  39961  CA  GLY G  34     239.089 139.734 -13.413  1.00 52.37      GS7
ATOM  39962  C   GLY G  34     240.378 140.445 -13.088  1.00 52.37      GS7
ATOM  39963  O   GLY G  34     240.404 141.335 -12.239  1.00 52.37      GS7
ATOM  39964  N   LYS G  35     241.446 140.042 -13.763  1.00 55.70      GS7
ATOM  39965  CA  LYS G  35     242.755 140.647 -13.568  1.00 55.70      GS7
ATOM  39966  CB  LYS G  35     243.822 139.565 -13.407  1.00 24.30      GS7
ATOM  39967  CG  LYS G  35     243.482 138.549 -12.342  1.00 24.30      GS7
ATOM  39968  CD  LYS G  35     244.581 137.533 -12.160  1.00 24.30      GS7
ATOM  39969  CE  LYS G  35     245.726 138.078 -11.310  1.00 24.30      GS7
ATOM  39970  NZ  LYS G  35     246.795 137.038 -11.069  1.00 24.30      GS7
ATOM  39971  C   LYS G  35     243.023 141.471 -14.810  1.00 55.70      GS7
ATOM  39972  O   LYS G  35     243.988 141.233 -15.536  1.00 55.70      GS7
ATOM  39973  N   LYS G  36     242.141 142.437 -15.041  1.00 61.99      GS7
ATOM  39974  CA  LYS G  36     242.205 143.319 -16.198  1.00 61.99      GS7
ATOM  39975  CB  LYS G  36     241.081 144.355 -16.120  1.00 99.41      GS7
ATOM  39976  CG  LYS G  36     240.764 145.045 -17.433  1.00 99.41      GS7
ATOM  39977  CD  LYS G  36     239.739 146.145 -17.223  1.00 99.41      GS7
ATOM  39978  CE  LYS G  36     239.257 146.716 -18.547  1.00 99.41      GS7
ATOM  39979  NZ  LYS G  36     238.492 145.708 -19.332  1.00 99.41      GS7
ATOM  39980  C   LYS G  36     243.539 144.032 -16.356  1.00 61.99      GS7
ATOM  39981  O   LYS G  36     243.723 144.792 -17.296  1.00 61.99      GS7
ATOM  39982  N   ASN G  37     244.469 143.802 -15.438  1.00 37.41      GS7
ATOM  39983  CA  ASN G  37     245.781 144.442 -15.519  1.00 37.41      GS7
ATOM  39984  CB  ASN G  37     246.330 144.668 -14.112  1.00 46.95      GS7
ATOM  39985  CG  ASN G  37     247.279 145.845 -14.031  1.00 46.95      GS7
ATOM  39986  OD1 ASN G  37     248.452 145.679 -13.686  1.00 46.95      GS7
ATOM  39987  ND2 ASN G  37     246.774 147.047 -14.332  1.00 46.95      GS7
ATOM  39988  C   ASN G  37     246.648 143.452 -16.264  1.00 37.41      GS7
ATOM  39989  O   ASN G  37     247.023 143.680 -17.422  1.00 37.41      GS7
ATOM  39990  N   LEU G  38     246.935 142.342 -15.579  1.00 46.63      GS7
ATOM  39991  CA  LEU G  38     247.726 141.244 -16.123  1.00 46.63      GS7
ATOM  39992  CB  LEU G  38     247.549 139.993 -15.256  1.00 90.70      GS7
ATOM  39993  CG  LEU G  38     247.983 138.638 -15.832  1.00 90.70      GS7
ATOM  39994  CD1 LEU G  38     249.433 138.698 -16.279  1.00 90.70      GS7
ATOM  39995  CD2 LEU G  38     247.797 137.545 -14.784  1.00 90.70      GS7
ATOM  39996  C   LEU G  38     247.273 140.951 -17.544  1.00 46.63      GS7
ATOM  39997  O   LEU G  38     248.040 140.467 -18.364  1.00 46.63      GS7
ATOM  39998  N   ALA G  39     246.013 141.252 -17.828  1.00 48.09      GS7
ATOM  39999  CA  ALA G  39     245.461 141.034 -19.153  1.00 48.09      GS7
ATOM  40000  CB  ALA G  39     243.959 140.893 -19.071  1.00162.57      GS7
ATOM  40001  C   ALA G  39     245.823 142.185 -20.072  1.00 48.09      GS7
ATOM  40002  O   ALA G  39     246.462 141.977 -21.095  1.00 48.09      GS7
ATOM  40003  N   ALA G  40     245.411 143.395 -19.705  1.00 59.16      GS7
ATOM  40004  CA  ALA G  40     245.698 144.583 -20.505  1.00 59.16      GS7
ATOM  40005  CB  ALA G  40     245.368 145.830 -19.738  1.00 44.36      GS7
ATOM  40006  C   ALA G  40     247.164 144.580 -20.823  1.00 59.16      GS7
ATOM  40007  O   ALA G  40     247.577 144.901 -21.942  1.00 59.16      GS7
ATOM  40008  N   ARG G  41     247.948 144.231 -19.812  1.00 51.24      GS7
ATOM  40009  CA  ARG G  41     249.386 144.156 -19.962  1.00 51.24      GS7
ATOM  40010  CB  ARG G  41     249.989 143.507 -18.716  1.00128.27      GS7
ATOM  40011  CG  ARG G  41     251.436 143.088 -18.841  1.00128.27      GS7
ATOM  40012  CD  ARG G  41     252.047 142.923 -17.468  1.00128.27      GS7
ATOM  40013  NE  ARG G  41     252.200 144.221 -16.820  1.00128.27      GS7
ATOM  40014  CZ  ARG G  41     252.577 144.391 -15.559  1.00128.27      GS7
ATOM  40015  NH1 ARG G  41     252.838 143.339 -14.792  1.00128.27      GS7
ATOM  40016  NH2 ARG G  41     252.707 145.617 -15.071  1.00128.27      GS7
ATOM  40017  C   ARG G  41     249.661 143.319 -21.205  1.00 51.24      GS7
ATOM  40018  O   ARG G  41     249.880 143.849 -22.294  1.00 51.24      GS7
ATOM  40019  N   ILE G  42     249.612 142.007 -21.040  1.00 35.30      GS7
ATOM  40020  CA  ILE G  42     249.854 141.091 -22.132  1.00 35.30      GS7
ATOM  40021  CB  ILE G  42     249.059 139.788 -21.939  1.00 62.38      GS7
ATOM  40022  CG2 ILE G  42     249.203 138.896 -23.166  1.00 62.38      GS7
ATOM  40023  CG1 ILE G  42     249.562 139.067 -20.688  1.00 62.38      GS7
ATOM  40024  CD1 ILE G  42     248.774 137.827 -20.328  1.00 62.38      GS7
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ATOM  40025  C   ILE G  42     249.493 141.692 -23.478  1.00 35.30      GS7
ATOM  40026  O   ILE G  42     250.359 141.866 -24.325  1.00 35.30      GS7
ATOM  40027  N   PHE G  43     248.228 142.026 -23.685  1.00 40.77      GS7
ATOM  40028  CA  PHE G  43     247.857 142.572 -24.978  1.00 40.77      GS7
ATOM  40029  CB  PHE G  43     246.486 143.218 -24.985  1.00 40.50      GS7
ATOM  40030  CG  PHE G  43     246.164 143.853 -26.300  1.00 40.50      GS7
ATOM  40031  CD1 PHE G  43     245.724 143.077 -27.366  1.00 40.50      GS7
ATOM  40032  CD2 PHE G  43     246.388 145.201 -26.504  1.00 40.50      GS7
ATOM  40033  CE1 PHE G  43     245.513 143.637 -28.615  1.00 40.50      GS7
ATOM  40034  CE2 PHE G  43     246.182 145.768 -27.745  1.00 40.50      GS7
ATOM  40035  CZ  PHE G  43     245.744 144.990 -28.805  1.00 40.50      GS7
ATOM  40036  C   PHE G  43     248.812 143.634 -25.438  1.00 40.77      GS7
ATOM  40037  O   PHE G  43     249.336 143.577 -26.543  1.00 40.77      GS7
ATOM  40038  N   TYR G  44     248.998 144.630 -24.589  1.00 57.21      GS7
ATOM  40039  CA  TYR G  44     249.882 145.734 -24.899  1.00 57.21      GS7
ATOM  40040  CB  TYR G  44     249.851 146.724 -23.741  1.00 43.02      GS7
ATOM  40041  CG  TYR G  44     248.585 147.541 -23.750  1.00 43.02      GS7
ATOM  40042  CD1 TYR G  44     247.922 147.855 -22.570  1.00 43.02      GS7
ATOM  40043  CE1 TYR G  44     246.761 148.613 -22.588  1.00 43.02      GS7
ATOM  40044  CD2 TYR G  44     248.056 148.009 -24.952  1.00 43.02      GS7
ATOM  40045  CE2 TYR G  44     246.900 148.768 -24.982  1.00 43.02      GS7
ATOM  40046  CZ  TYR G  44     246.258 149.066 -23.800  1.00 43.02      GS7
ATOM  40047  OH  TYR G  44     245.116 149.825 -23.833  1.00 43.02      GS7
ATOM  40048  C   TYR G  44     251.304 145.298 -25.230  1.00 57.21      GS7
ATOM  40049  O   TYR G  44     251.821 145.642 -26.294  1.00 57.21      GS7
ATOM  40050  N   ASP G  45     251.932 144.546 -24.331  1.00 38.20      GS7
ATOM  40051  CA  ASP G  45     253.281 144.054 -24.583  1.00 38.20      GS7
ATOM  40052  CB  ASP G  45     253.688 142.994 -23.555  1.00139.01      GS7
ATOM  40053  CG  ASP G  45     253.414 143.418 -22.135  1.00139.01      GS7
ATOM  40054  OD1 ASP G  45     253.875 144.507 -21.735  1.00139.01      GS7
ATOM  40055  OD2 ASP G  45     252.740 142.647 -21.419  1.00139.01      GS7
ATOM  40056  C   ASP G  45     253.269 143.403 -25.965  1.00 38.20      GS7
ATOM  40057  O   ASP G  45     253.909 143.878 -26.907  1.00 38.20      GS7
ATOM  40058  N   ALA G  46     252.532 142.304 -26.074  1.00 58.93      GS7
ATOM  40059  CA  ALA G  46     252.420 141.581 -27.328  1.00 58.93      GS7
ATOM  40060  CB  ALA G  46     251.400 140.479 -27.188  1.00 86.78      GS7
ATOM  40061  C   ALA G  46     252.007 142.539 -28.438  1.00 58.93      GS7
ATOM  40062  O   ALA G  46     252.276 142.301 -29.617  1.00 58.93      GS7
ATOM  40063  N   CYS G  47     251.356 143.631 -28.056  1.00 51.54      GS7
ATOM  40064  CA  CYS G  47     250.911 144.596 -29.039  1.00 51.54      GS7
ATOM  40065  CB  CYS G  47     249.844 145.511 -28.463  1.00 74.17      GS7
ATOM  40066  SG  CYS G  47     248.971 146.334 -29.777  1.00 74.17      GS7
ATOM  40067  C   CYS G  47     252.072 145.428 -29.539  1.00 51.54      GS7
ATOM  40068  O   CYS G  47     252.001 146.043 -30.606  1.00 51.54      GS7
ATOM  40069  N   LYS G  48     253.145 145.443 -28.758  1.00 65.13      GS7
ATOM  40070  CA  LYS G  48     254.339 146.184 -29.121  1.00 65.13      GS7
ATOM  40071  CB  LYS G  48     254.767 147.104 -27.970  1.00104.34      GS7
ATOM  40072  CG  LYS G  48     253.748 148.222 -27.683  1.00104.34      GS7
ATOM  40073  CD  LYS G  48     254.226 149.218 -26.626  1.00104.34      GS7
ATOM  40074  CE  LYS G  48     253.216 150.346 -26.428  1.00104.34      GS7
ATOM  40075  NZ  LYS G  48     252.946 151.093 -27.690  1.00104.34      GS7
ATOM  40076  C   LYS G  48     255.439 145.201 -29.483  1.00 65.13      GS7
ATOM  40077  O   LYS G  48     256.623 145.506 -29.366  1.00 65.13      GS7
ATOM  40078  N   ILE G  49     255.017 144.010 -29.908  1.00 68.58      GS7
ATOM  40079  CA  ILE G  49     255.919 142.943 -30.340  1.00 68.58      GS7
ATOM  40080  CB  ILE G  49     255.616 141.580 -29.670  1.00 47.83      GS7
ATOM  40081  CG2 ILE G  49     256.432 140.474 -30.335  1.00 47.83      GS7
ATOM  40082  CG1 ILE G  49     255.927 141.649 -28.175  1.00 47.83      GS7
ATOM  40083  CD1 ILE G  49     255.672 140.340 -27.428  1.00 47.83      GS7
ATOM  40084  C   ILE G  49     255.645 142.792 -31.816  1.00 68.58      GS7
ATOM  40085  O   ILE G  49     256.464 142.274 -32.565  1.00 68.58      GS7
ATOM  40086  N   ILE G  50     254.464 143.232 -32.223  1.00 65.63      GS7
ATOM  40087  CA  ILE G  50     254.093 143.169 -33.621  1.00 65.63      GS7
ATOM  40088  CB  ILE G  50     252.632 143.531 -33.821  1.00 82.82      GS7
ATOM  40089  CG2 ILE G  50     252.229 143.284 -35.264  1.00 82.82      GS7
ATOM  40090  CG1 ILE G  50     251.773 142.700 -32.879  1.00 82.82      GS7
ATOM  40091  CD1 ILE G  50     250.314 143.040 -32.962  1.00 82.82      GS7
ATOM  40092  C   ILE G  50     254.946 144.230 -34.282  1.00 65.63      GS7
ATOM  40093  O   ILE G  50     255.303 144.120 -35.456  1.00 65.63      GS7
ATOM  40094  N   GLN G  51     255.272 145.259 -33.503  1.00 60.78      GS7
ATOM  40095  CA  GLN G  51     256.091 146.362 -33.982  1.00 60.78      GS7
ATOM  40096  CB  GLN G  51     256.018 147.543 -33.018  1.00131.20      GS7
ATOM  40097  CG  GLN G  51     254.925 148.521 -33.370  1.00131.20      GS7
ATOM  40098  CD  GLN G  51     255.066 149.032 -34.788  1.00131.20      GS7
ATOM  40099  OE1 GLN G  51     255.031 148.258 -35.746  1.00131.20      GS7
ATOM  40100  NE2 GLN G  51     255.231 150.340 -34.932  1.00131.20      GS7
ATOM  40101  C   GLN G  51     257.537 145.958 -34.173  1.00 60.78      GS7
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ATOM  40102  O   GLN G  51     258.069 146.055 -35.273  1.00 60.78      GS7
ATOM  40103  N   GLU G  52     258.176 145.501 -33.104  1.00 81.06      GS7
ATOM  40104  CA  GLU G  52     259.569 145.088 -33.189  1.00 81.06      GS7
ATOM  40105  CB  GLU G  52     260.072 144.641 -31.812  1.00187.94      GS7
ATOM  40106  CG  GLU G  52     261.581 144.442 -31.730  1.00187.94      GS7
ATOM  40107  CD  GLU G  52     262.032 143.907 -30.382  1.00187.94      GS7
ATOM  40108  OE1 GLU G  52     261.647 142.770 -30.036  1.00187.94      GS7
ATOM  40109  OE2 GLU G  52     262.769 144.624 -29.670  1.00187.94      GS7
ATOM  40110  C   GLU G  52     259.717 143.947 -34.195  1.00 81.06      GS7
ATOM  40111  O   GLU G  52     260.780 143.332 -34.291  1.00 81.06      GS7
ATOM  40112  N   LYS G  53     258.647 143.669 -34.942  1.00 63.80      GS7
ATOM  40113  CA  LYS G  53     258.663 142.600 -35.939  1.00 63.80      GS7
ATOM  40114  CB  LYS G  53     258.193 141.283 -35.303  1.00 91.02      GS7
ATOM  40115  CG  LYS G  53     259.108 140.795 -34.183  1.00 91.02      GS7
ATOM  40116  CD  LYS G  53     258.608 139.516 -33.538  1.00 91.02      GS7
ATOM  40117  CE  LYS G  53     259.476 139.141 -32.335  1.00 91.02      GS7
ATOM  40118  NZ  LYS G  53     259.016 137.908 -31.620  1.00 91.02      GS7
ATOM  40119  C   LYS G  53     257.855 142.892 -37.205  1.00 63.80      GS7
ATOM  40120  O   LYS G  53     257.625 141.998 -38.017  1.00 63.80      GS7
ATOM  40121  N   THR G  54     257.441 144.144 -37.375  1.00 64.10      GS7
ATOM  40122  CA  THR G  54     256.677 144.564 -38.555  1.00 64.10      GS7
ATOM  40123  CB  THR G  54     255.252 143.967 -38.551  1.00105.98      GS7
ATOM  40124  OG1 THR G  54     255.329 142.541 -38.645  1.00105.98      GS7
ATOM  40125  CG2 THR G  54     254.450 144.495 -39.728  1.00105.98      GS7
ATOM  40126  C   THR G  54     256.559 146.092 -38.659  1.00 64.10      GS7
ATOM  40127  O   THR G  54     256.456 146.796 -37.651  1.00 64.10      GS7
ATOM  40128  N   GLY G  55     256.575 146.606 -39.881  1.00113.61      GS7
ATOM  40129  CA  GLY G  55     256.463 148.040 -40.047  1.00113.61      GS7
ATOM  40130  C   GLY G  55     255.056 148.539 -39.773  1.00113.61      GS7
ATOM  40131  O   GLY G  55     254.826 149.749 -39.689  1.00113.61      GS7
ATOM  40132  N   GLN G  56     254.117 147.607 -39.614  1.00103.55      GS7
ATOM  40133  CA  GLN G  56     252.711 147.938 -39.378  1.00103.55      GS7
ATOM  40134  CB  GLN G  56     251.828 146.747 -39.756  1.00155.15      GS7
ATOM  40135  CG  GLN G  56     251.994 146.255 -41.178  1.00155.15      GS7
ATOM  40136  CD  GLN G  56     251.123 145.045 -41.472  1.00155.15      GS7
ATOM  40137  OE1 GLN G  56     249.893 145.131 -41.457  1.00155.15      GS7
ATOM  40138  NE2 GLN G  56     251.759 143.907 -41.735  1.00155.15      GS7
ATOM  40139  C   GLN G  56     252.357 148.368 -37.953  1.00103.55      GS7
ATOM  40140  O   GLN G  56     252.852 147.801 -36.975  1.00103.55      GS7
ATOM  40141  N   GLU G  57     251.486 149.373 -37.853  1.00 76.35      GS7
ATOM  40142  CA  GLU G  57     251.018 149.882 -36.567  1.00 76.35      GS7
ATOM  40143  CB  GLU G  57     250.011 151.007 -36.793  1.00183.39      GS7
ATOM  40144  CG  GLU G  57     250.545 152.115 -37.683  1.00183.39      GS7
ATOM  40145  CD  GLU G  57     249.445 152.961 -38.296  1.00183.39      GS7
ATOM  40146  OE1 GLU G  57     248.625 152.408 -39.061  1.00183.39      GS7
ATOM  40147  OE2 GLU G  57     249.403 154.179 -38.018  1.00183.39      GS7
ATOM  40148  C   GLU G  57     250.339 148.696 -35.909  1.00 76.35      GS7
ATOM  40149  O   GLU G  57     249.431 148.096 -36.483  1.00 76.35      GS7
ATOM  40150  N   PRO G  58     250.757 148.346 -34.689  1.00 74.43      GS7
ATOM  40151  CD  PRO G  58     251.339 149.258 -33.693  1.00 81.01      GS7
ATOM  40152  CA  PRO G  58     250.132 147.197 -34.029  1.00 74.43      GS7
ATOM  40153  CB  PRO G  58     250.473 147.419 -32.559  1.00 81.01      GS7
ATOM  40154  CG  PRO G  58     250.550 148.908 -32.458  1.00 81.01      GS7
ATOM  40155  C   PRO G  58     248.630 147.119 -34.282  1.00 74.43      GS7
ATOM  40156  O   PRO G  58     248.132 146.125 -34.812  1.00 74.43      GS7
ATOM  40157  N   LEU G  59     247.919 148.183 -33.930  1.00 78.37      GS7
ATOM  40158  CA  LEU G  59     246.477 148.213 -34.108  1.00 78.37      GS7
ATOM  40159  CB  LEU G  59     245.956 149.639 -33.934  1.00 63.94      GS7
ATOM  40160  CG  LEU G  59     244.430 149.735 -33.988  1.00 63.94      GS7
ATOM  40161  CD1 LEU G  59     243.823 148.833 -32.936  1.00 63.94      GS7
ATOM  40162  CD2 LEU G  59     243.996 151.160 -33.760  1.00 63.94      GS7
ATOM  40163  C   LEU G  59     246.015 147.646 -35.453  1.00 78.37      GS7
ATOM  40164  O   LEU G  59     245.481 146.541 -35.500  1.00 78.37      GS7
ATOM  40165  N   LYS G  60     246.220 148.399 -36.534  1.00 73.44      GS7
ATOM  40166  CA  LYS G  60     245.823 147.984 -37.882  1.00 73.44      GS7
ATOM  40167  CB  LYS G  60     246.630 148.747 -38.930  1.00140.63      GS7
ATOM  40168  CG  LYS G  60     246.341 148.331 -40.368  1.00140.63      GS7
ATOM  40169  CD  LYS G  60     247.149 149.173 -41.349  1.00140.63      GS7
ATOM  40170  CE  LYS G  60     246.792 148.871 -42.797  1.00140.63      GS7
ATOM  40171  NZ  LYS G  60     247.521 149.774 -43.737  1.00140.63      GS7
ATOM  40172  C   LYS G  60     245.998 146.492 -38.114  1.00 73.44      GS7
ATOM  40173  O   LYS G  60     245.196 145.867 -38.808  1.00 73.44      GS7
ATOM  40174  N   VAL G  61     247.056 145.926 -37.545  1.00 58.99      GS7
ATOM  40175  CA  VAL G  61     247.313 144.496 -37.682  1.00 58.99      GS7
ATOM  40176  CB  VAL G  61     248.668 144.116 -37.012  1.00 45.31      GS7
ATOM  40177  CG1 VAL G  61     248.992 142.637 -37.242  1.00 45.31      GS7
ATOM  40178  CG2 VAL G  61     249.765 144.993 -37.548  1.00 45.31      GS7
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ATOM  40179  C   VAL G  61     246.157 143.735 -37.001  1.00 58.99      GS7
ATOM  40180  O   VAL G  61     245.441 142.969 -37.647  1.00 58.99      GS7
ATOM  40181  N   PHE G  62     246.000 143.966 -35.694  1.00 49.39      GS7
ATOM  40182  CA  PHE G  62     244.951 143.363 -34.863  1.00 49.39      GS7
ATOM  40183  CB  PHE G  62     244.904 144.095 -33.517  1.00 55.69      GS7
ATOM  40184  CG  PHE G  62     243.629 143.896 -32.744  1.00 55.69      GS7
ATOM  40185  CD1 PHE G  62     243.421 142.745 -31.994  1.00 55.69      GS7
ATOM  40186  CD2 PHE G  62     242.641 144.876 -32.752  1.00 55.69      GS7
ATOM  40187  CE1 PHE G  62     242.246 142.578 -31.263  1.00 55.69      GS7
ATOM  40188  CE2 PHE G  62     241.466 144.716 -32.024  1.00 55.69      GS7
ATOM  40189  CZ  PHE G  62     241.268 143.570 -31.280  1.00 55.69      GS7
ATOM  40190  C   PHE G  62     243.628 143.520 -35.586  1.00 49.39      GS7
ATOM  40191  O   PHE G  62     242.934 142.544 -35.864  1.00 49.39      GS7
ATOM  40192  N   LYS G  63     243.296 144.771 -35.878  1.00 48.39      GS7
ATOM  40193  CA  LYS G  63     242.078 145.112 -36.592  1.00 48.39      GS7
ATOM  40194  CB  LYS G  63     242.115 146.579 -37.012  1.00102.88      GS7
ATOM  40195  CG  LYS G  63     241.960 147.576 -35.879  1.00102.88      GS7
ATOM  40196  CD  LYS G  63     240.497 147.922 -35.656  1.00102.88      GS7
ATOM  40197  CE  LYS G  63     240.344 149.177 -34.811  1.00102.88      GS7
ATOM  40198  NZ  LYS G  63     238.934 149.662 -34.816  1.00102.88      GS7
ATOM  40199  C   LYS G  63     241.958 144.243 -37.835  1.00 48.39      GS7
ATOM  40200  O   LYS G  63     240.855 143.898 -38.258  1.00 48.39      GS7
ATOM  40201  N   GLN G  64     243.101 143.894 -38.420  1.00 51.80      GS7
ATOM  40202  CA  GLN G  64     243.124 143.065 -39.622  1.00 51.80      GS7
ATOM  40203  CB  GLN G  64     244.476 143.208 -40.328  1.00123.29      GS7
ATOM  40204  CG  GLN G  64     244.484 142.746 -41.776  1.00123.29      GS7
ATOM  40205  CD  GLN G  64     243.617 143.616 -42.669  1.00123.29      GS7
ATOM  40206  OE1 GLN G  64     243.825 144.827 -42.768  1.00123.29      GS7
ATOM  40207  NE2 GLN G  64     242.641 143.000 -43.327  1.00123.29      GS7
ATOM  40208  C   GLN G  64     242.870 141.600 -39.262  1.00 51.80      GS7
ATOM  40209  O   GLN G  64     242.030 140.937 -39.866  1.00 51.80      GS7
ATOM  40210  N   ALA G  65     243.600 141.107 -38.267  1.00 69.73      GS7
ATOM  40211  CA  ALA G  65     243.467 139.726 -37.818  1.00 69.73      GS7
ATOM  40212  CB  ALA G  65     244.308 139.502 -36.580  1.00 64.00      GS7
ATOM  40213  C   ALA G  65     242.014 139.430 -37.517  1.00 69.73      GS7
ATOM  40214  O   ALA G  65     241.499 138.372 -37.863  1.00 69.73      GS7
ATOM  40215  N   VAL G  66     241.358 140.376 -36.861  1.00 53.91      GS7
ATOM  40216  CA  VAL G  66     239.958 140.219 -36.531  1.00 53.91      GS7
ATOM  40217  CB  VAL G  66     239.415 141.462 -35.805  1.00 48.69      GS7
ATOM  40218  CG1 VAL G  66     237.903 141.387 -35.680  1.00 48.69      GS7
ATOM  40219  CG2 VAL G  66     240.050 141.560 -34.429  1.00 48.69      GS7
ATOM  40220  C   VAL G  66     239.178 140.021 -37.817  1.00 53.91      GS7
ATOM  40221  O   VAL G  66     238.643 138.940 -38.063  1.00 53.91      GS7
ATOM  40222  N   GLU G  67     239.133 141.064 -38.642  1.00 52.31      GS7
ATOM  40223  CA  GLU G  67     238.401 141.020 -39.904  1.00 52.31      GS7
ATOM  40224  CB  GLU G  67     238.823 142.184 -40.808  1.00201.30      GS7
ATOM  40225  CG  GLU G  67     238.177 142.168 -42.197  1.00201.30      GS7
ATOM  40226  CD  GLU G  67     236.664 142.323 -42.159  1.00201.30      GS7
ATOM  40227  OE1 GLU G  67     236.021 142.145 -43.217  1.00201.30      GS7
ATOM  40228  OE2 GLU G  67     236.119 142.630 -41.077  1.00201.30      GS7
ATOM  40229  C   GLU G  67     238.553 139.707 -40.663  1.00 52.31      GS7
ATOM  40230  O   GLU G  67     237.787 139.430 -41.586  1.00 52.31      GS7
ATOM  40231  N   ASN G  68     239.529 138.895 -40.281  1.00 72.27      GS7
ATOM  40232  CA  ASN G  68     239.732 137.630 -40.960  1.00 72.27      GS7
ATOM  40233  CB  ASN G  68     241.213 137.407 -41.224  1.00 73.23      GS7
ATOM  40234  CG  ASN G  68     241.759 138.370 -42.238  1.00 73.23      GS7
ATOM  40235  OD1 ASN G  68     241.156 138.575 -43.292  1.00 73.23      GS7
ATOM  40236  ND2 ASN G  68     242.908 138.967 -41.937  1.00 73.23      GS7
ATOM  40237  C   ASN G  68     239.164 136.427 -40.228  1.00 72.27      GS7
ATOM  40238  O   ASN G  68     238.636 135.511 -40.858  1.00 72.27      GS7
ATOM  40239  N   VAL G  69     239.266 136.423 -38.903  1.00 44.48      GS7
ATOM  40240  CA  VAL G  69     238.766 135.301 -38.120  1.00 44.48      GS7
ATOM  40241  CB  VAL G  69     239.280 135.358 -36.688  1.00 40.69      GS7
ATOM  40242  CG1 VAL G  69     239.138 134.012 -36.040  1.00 40.69      GS7
ATOM  40243  CG2 VAL G  69     240.718 135.795 -36.680  1.00 40.69      GS7
ATOM  40244  C   VAL G  69     237.251 135.278 -38.075  1.00 44.48      GS7
ATOM  40245  O   VAL G  69     236.659 134.334 -37.567  1.00 44.48      GS7
ATOM  40246  N   LYS G  70     236.624 136.313 -38.619  1.00 45.98      GS7
ATOM  40247  CA  LYS G  70     235.166 136.405 -38.623  1.00 45.98      GS7
ATOM  40248  CB  LYS G  70     234.733 137.812 -39.031  1.00 64.06      GS7
ATOM  40249  CG  LYS G  70     235.089 138.886 -38.020  1.00 64.06      GS7
ATOM  40250  CD  LYS G  70     234.260 140.122 -38.269  1.00 64.06      GS7
ATOM  40251  CE  LYS G  70     234.539 141.191 -37.244  1.00 64.06      GS7
ATOM  40252  NZ  LYS G  70     233.581 142.321 -37.396  1.00 64.06      GS7
ATOM  40253  C   LYS G  70     234.452 135.393 -39.512  1.00 45.98      GS7
ATOM  40254  O   LYS G  70     234.606 135.416 -40.727  1.00 45.98      GS7
ATOM  40255  N   PRO G  71     233.650 134.497 -38.914  1.00 34.28      GS7
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ATOM  40256  CD  PRO G  71     233.351 134.377 -37.480  1.00 30.83       GS7
ATOM  40257  CA  PRO G  71     232.915 133.483 -39.674  1.00 34.28       GS7
ATOM  40258  CB  PRO G  71     232.504 132.488 -38.601  1.00 30.83       GS7
ATOM  40259  CG  PRO G  71     232.200 133.375 -37.467  1.00 30.83       GS7
ATOM  40260  C   PRO G  71     231.720 134.152 -40.317  1.00 34.28       GS7
ATOM  40261  O   PRO G  71     230.991 134.877 -39.646  1.00 34.28       GS7
ATOM  40262  N   ARG G  72     231.528 133.921 -41.612  1.00 63.94       GS7
ATOM  40263  CA  ARG G  72     230.420 134.530 -42.338  1.00 63.94       GS7
ATOM  40264  CB  ARG G  72     230.839 134.804 -43.783  1.00122.72       GS7
ATOM  40265  CG  ARG G  72     231.879 135.905 -43.897  1.00122.72       GS7
ATOM  40266  CD  ARG G  72     232.290 136.142 -45.337  1.00122.72       GS7
ATOM  40267  NE  ARG G  72     233.227 135.134 -45.820  1.00122.72       GS7
ATOM  40268  CZ  ARG G  72     234.467 134.987 -45.362  1.00122.72       GS7
ATOM  40269  NH1 ARG G  72     234.928 135.784 -44.404  1.00122.72       GS7
ATOM  40270  NH2 ARG G  72     235.252 134.045 -45.869  1.00122.72       GS7
ATOM  40271  C   ARG G  72     229.143 133.693 -42.299  1.00 63.94       GS7
ATOM  40272  O   ARG G  72     228.041 134.220 -42.428  1.00 63.94       GS7
ATOM  40273  N   MET G  73     229.304 132.390 -42.119  1.00 31.89       GS7
ATOM  40274  CA  MET G  73     228.188 131.461 -42.034  1.00 31.89       GS7
ATOM  40275  CB  MET G  73     228.014 130.685 -43.333  1.00 72.83       GS7
ATOM  40276  CG  MET G  73     227.408 131.492 -44.433  1.00 72.83       GS7
ATOM  40277  SD  MET G  73     225.820 132.071 -43.896  1.00 72.83       GS7
ATOM  40278  CE  MET G  73     224.776 130.748 -44.482  1.00 72.83       GS7
ATOM  40279  C   MET G  73     228.578 130.493 -40.947  1.00 31.89       GS7
ATOM  40280  O   MET G  73     229.763 130.291 -40.698  1.00 31.89       GS7
ATOM  40281  N   GLU G  74     227.594 129.910 -40.283  1.00 39.04       GS7
ATOM  40282  CA  GLU G  74     227.865 128.941 -39.241  1.00 39.04       GS7
ATOM  40283  CB  GLU G  74     227.999 129.626 -37.878  1.00 60.97       GS7
ATOM  40284  CG  GLU G  74     226.697 129.930 -37.159  1.00 60.97       GS7
ATOM  40285  CD  GLU G  74     226.916 130.586 -35.795  1.00 60.97       GS7
ATOM  40286  OE1 GLU G  74     227.878 130.209 -35.082  1.00 60.97       GS7
ATOM  40287  OE2 GLU G  74     226.109 131.471 -35.433  1.00 60.97       GS7
ATOM  40288  C   GLU G  74     226.663 128.028 -39.285  1.00 39.04       GS7
ATOM  40289  O   GLU G  74     225.743 128.259 -40.070  1.00 39.04       GS7
ATOM  40290  N   VAL G  75     226.644 126.992 -38.466  1.00 53.54       GS7
ATOM  40291  CA  VAL G  75     225.503 126.105 -38.521  1.00 53.54       GS7
ATOM  40292  CB  VAL G  75     225.873 124.780 -39.197  1.00 42.33       GS7
ATOM  40293  CG1 VAL G  75     224.696 124.261 -39.988  1.00 42.33       GS7
ATOM  40294  CG2 VAL G  75     227.061 124.974 -40.094  1.00 42.33       GS7
ATOM  40295  C   VAL G  75     224.914 125.802 -37.160  1.00 53.54       GS7
ATOM  40296  O   VAL G  75     225.540 125.139 -36.341  1.00 53.54       GS7
ATOM  40297  N   ARG G  76     223.706 126.301 -36.919  1.00 75.02       GS7
ATOM  40298  CA  ARG G  76     223.020 126.042 -35.663  1.00 75.02       GS7
ATOM  40299  CB  ARG G  76     222.094 127.206 -35.302  1.00160.90       GS7
ATOM  40300  CG  ARG G  76     222.820 128.443 -34.797  1.00160.90       GS7
ATOM  40301  CD  ARG G  76     221.841 129.533 -34.378  1.00160.90       GS7
ATOM  40302  NE  ARG G  76     222.503 130.624 -33.666  1.00160.90       GS7
ATOM  40303  CZ  ARG G  76     221.876 131.697 -33.192  1.00160.90       GS7
ATOM  40304  NH1 ARG G  76     220.566 131.826 -33.356  1.00160.90       GS7
ATOM  40305  NH2 ARG G  76     222.558 132.637 -32.549  1.00160.90       GS7
ATOM  40306  C   ARG G  76     222.209 124.770 -35.866  1.00 75.02       GS7
ATOM  40307  O   ARG G  76     221.543 124.609 -36.889  1.00 75.02       GS7
ATOM  40308  N   SER G  77     222.278 123.859 -34.904  1.00 96.76       GS7
ATOM  40309  CA  SER G  77     221.541 122.605 -35.005  1.00 96.76       GS7
ATOM  40310  CB  SER G  77     221.848 121.721 -33.790  1.00150.40       GS7
ATOM  40311  OG  SER G  77     221.303 120.421 -33.942  1.00150.40       GS7
ATOM  40312  C   SER G  77     220.036 122.877 -35.097  1.00 96.76       GS7
ATOM  40313  O   SER G  77     219.609 124.035 -35.133  1.00 96.76       GS7
ATOM  40314  N   ARG G  78     219.238 121.811 -35.151  1.00110.51       GS7
ATOM  40315  CA  ARG G  78     217.781 121.937 -35.226  1.00110.51       GS7
ATOM  40316  CB  ARG G  78     217.377 122.849 -36.391  1.00106.48       GS7
ATOM  40317  CG  ARG G  78     215.898 123.172 -36.425  1.00106.48       GS7
ATOM  40318  CD  ARG G  78     215.520 123.963 -37.658  1.00106.48       GS7
ATOM  40319  NE  ARG G  78     214.078 124.186 -37.729  1.00106.48       GS7
ATOM  40320  CZ  ARG G  78     213.472 124.848 -38.709  1.00106.48       GS7
ATOM  40321  NH1 ARG G  78     214.185 125.352 -39.704  1.00106.48       GS7
ATOM  40322  NH2 ARG G  78     212.155 125.008 -38.696  1.00106.48       GS7
ATOM  40323  C   ARG G  78     217.092 120.579 -35.380  1.00110.51       GS7
ATOM  40324  O   ARG G  78     217.753 119.547 -35.515  1.00110.51       GS7
ATOM  40325  N   ARG G  79     215.761 120.590 -35.342  1.00113.77       GS7
ATOM  40326  CA  ARG G  79     214.971 119.374 -35.490  1.00113.77       GS7
ATOM  40327  CB  ARG G  79     214.462 118.883 -34.135  1.00201.30       GS7
ATOM  40328  CG  ARG G  79     215.471 118.065 -33.364  1.00201.30       GS7
ATOM  40329  CD  ARG G  79     214.782 117.004 -32.523  1.00201.30       GS7
ATOM  40330  NE  ARG G  79     215.739 116.105 -31.883  1.00201.30       GS7
ATOM  40331  CZ  ARG G  79     215.407 114.998 -31.225  1.00201.30       GS7
ATOM  40332  NH1 ARG G  79     214.134 114.641 -31.115  1.00201.30       GS7
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ATOM  40333  NH2 ARG G  79     216.350 114.243 -30.674  1.00201.30      GS7
ATOM  40334  C   ARG G  79     213.786 119.556 -36.426  1.00113.77      GS7
ATOM  40335  O   ARG G  79     212.992 120.486 -36.266  1.00113.77      GS7
ATOM  40336  N   VAL G  80     213.678 118.654 -37.399  1.00149.83      GS7
ATOM  40337  CA  VAL G  80     212.595 118.679 -38.377  1.00149.83      GS7
ATOM  40338  CB  VAL G  80     213.107 119.073 -39.789  1.00 61.95      GS7
ATOM  40339  CG1 VAL G  80     211.948 119.063 -40.786  1.00 61.95      GS7
ATOM  40340  CG2 VAL G  80     213.754 120.446 -39.751  1.00 61.95      GS7
ATOM  40341  C   VAL G  80     211.929 117.305 -38.477  1.00149.83      GS7
ATOM  40342  O   VAL G  80     212.583 116.311 -38.797  1.00149.83      GS7
ATOM  40343  N   GLY G  81     210.629 117.259 -38.194  1.00201.20      GS7
ATOM  40344  CA  GLY G  81     209.884 116.012 -38.267  1.00201.20      GS7
ATOM  40345  C   GLY G  81     210.317 114.950 -37.274  1.00201.20      GS7
ATOM  40346  O   GLY G  81     209.679 113.902 -37.157  1.00201.20      GS7
ATOM  40347  N   GLY G  82     211.400 115.223 -36.553  1.00190.31      GS7
ATOM  40348  CA  GLY G  82     211.903 114.274 -35.579  1.00190.31      GS7
ATOM  40349  C   GLY G  82     213.346 113.917 -35.868  1.00190.31      GS7
ATOM  40350  O   GLY G  82     213.832 112.861 -35.462  1.00190.31      GS7
ATOM  40351  N   ALA G  83     214.033 114.805 -36.578  1.00 97.11      GS7
ATOM  40352  CA  ALA G  83     215.428 114.591 -36.932  1.00 97.11      GS7
ATOM  40353  CB  ALA G  83     215.542 114.277 -38.413  1.00141.07      GS7
ATOM  40354  C   ALA G  83     216.266 115.815 -36.586  1.00 97.11      GS7
ATOM  40355  O   ALA G  83     215.787 116.946 -36.665  1.00 97.11      GS7
ATOM  40356  N   ASN G  84     217.521 115.579 -36.210  1.00130.82      GS7
ATOM  40357  CA  ASN G  84     218.435 116.655 -35.839  1.00130.82      GS7
ATOM  40358  CB  ASN G  84     219.235 116.260 -34.601  1.00163.67      GS7
ATOM  40359  CG  ASN G  84     218.443 116.422 -33.328  1.00163.67      GS7
ATOM  40360  OD1 ASN G  84     218.136 117.540 -32.917  1.00163.67      GS7
ATOM  40361  ND2 ASN G  84     218.100 115.306 -32.697  1.00163.67      GS7
ATOM  40362  C   ASN G  84     219.397 117.076 -36.938  1.00130.82      GS7
ATOM  40363  O   ASN G  84     220.581 116.740 -36.908  1.00130.82      GS7
ATOM  40364  N   TYR G  85     218.877 117.821 -37.904  1.00 77.90      GS7
ATOM  40365  CA  TYR G  85     219.675 118.321 -39.009  1.00 77.90      GS7
ATOM  40366  CB  TYR G  85     218.754 118.739 -40.150  1.00 86.56      GS7
ATOM  40367  CG  TYR G  85     217.855 117.622 -40.628  1.00 86.56      GS7
ATOM  40368  CD1 TYR G  85     216.639 117.899 -41.242  1.00 86.56      GS7
ATOM  40369  CE1 TYR G  85     215.806 116.880 -41.695  1.00 86.56      GS7
ATOM  40370  CD2 TYR G  85     218.225 116.286 -40.478  1.00 86.56      GS7
ATOM  40371  CE2 TYR G  85     217.400 115.253 -40.931  1.00 86.56      GS7
ATOM  40372  CZ  TYR G  85     216.190 115.558 -41.538  1.00 86.56      GS7
ATOM  40373  OH  TYR G  85     215.362 114.548 -41.980  1.00 86.56      GS7
ATOM  40374  C   TYR G  85     220.439 119.523 -38.480  1.00 77.90      GS7
ATOM  40375  O   TYR G  85     220.114 120.034 -37.411  1.00 77.90      GS7
ATOM  40376  N   GLN G  86     221.455 119.965 -39.219  1.00 72.09      GS7
ATOM  40377  CA  GLN G  86     222.275 121.113 -38.827  1.00 72.09      GS7
ATOM  40378  CB  GLN G  86     223.754 120.719 -38.827  1.00115.33      GS7
ATOM  40379  CG  GLN G  86     224.065 119.522 -37.949  1.00115.33      GS7
ATOM  40380  CD  GLN G  86     223.873 119.820 -36.477  1.00115.33      GS7
ATOM  40381  OE1 GLN G  86     223.788 118.910 -35.652  1.00115.33      GS7
ATOM  40382  NE2 GLN G  86     223.814 121.103 -36.137  1.00115.33      GS7
ATOM  40383  C   GLN G  86     222.042 122.244 -39.822  1.00 72.09      GS7
ATOM  40384  O   GLN G  86     222.592 122.223 -40.919  1.00 72.09      GS7
ATOM  40385  N   VAL G  87     221.238 123.233 -39.443  1.00 36.16      GS7
ATOM  40386  CA  VAL G  87     220.944 124.333 -40.352  1.00 36.16      GS7
ATOM  40387  CB  VAL G  87     219.589 124.964 -40.026  1.00 72.96      GS7
ATOM  40388  CG1 VAL G  87     219.361 126.208 -40.892  1.00 72.96      GS7
ATOM  40389  CG2 VAL G  87     218.496 123.944 -40.278  1.00 72.96      GS7
ATOM  40390  C   VAL G  87     221.985 125.448 -40.516  1.00 36.16      GS7
ATOM  40391  O   VAL G  87     222.392 126.117 -39.564  1.00 36.16      GS7
ATOM  40392  N   PRO G  88     222.414 125.661 -41.761  1.00 27.23      GS7
ATOM  40393  CD  PRO G  88     221.954 124.866 -42.914  1.00 35.43      GS7
ATOM  40394  CA  PRO G  88     223.393 126.653 -42.184  1.00 27.23      GS7
ATOM  40395  CB  PRO G  88     223.776 126.155 -43.562  1.00 35.43      GS7
ATOM  40396  CG  PRO G  88     222.465 125.647 -44.080  1.00 35.43      GS7
ATOM  40397  C   PRO G  88     222.779 128.036 -42.254  1.00 27.23      GS7
ATOM  40398  O   PRO G  88     221.921 128.286 -43.106  1.00 27.23      GS7
ATOM  40399  N   MET G  89     223.214 128.943 -41.387  1.00 73.81      GS7
ATOM  40400  CA  MET G  89     222.660 130.289 -41.415  1.00 73.81      GS7
ATOM  40401  CB  MET G  89     221.531 130.396 -40.392  1.00149.55      GS7
ATOM  40402  CG  MET G  89     221.770 129.604 -39.132  1.00149.55      GS7
ATOM  40403  SD  MET G  89     220.283 129.540 -38.136  1.00149.55      GS7
ATOM  40404  CE  MET G  89     220.464 131.042 -37.157  1.00149.55      GS7
ATOM  40405  C   MET G  89     223.668 131.416 -41.219  1.00 73.81      GS7
ATOM  40406  O   MET G  89     224.748 131.205 -40.666  1.00 73.81      GS7
ATOM  40407  N   GLU G  90     223.299 132.607 -41.698  1.00 78.07      GS7
ATOM  40408  CA  GLU G  90     224.129 133.807 -41.607  1.00 78.07      GS7
ATOM  40409  CB  GLU G  90     223.321 135.033 -42.033  1.00177.23      GS7
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ATOM  40410  CG  GLU G  90     222.624 134.876 -43.369  1.00177.23      GS7
ATOM  40411  CD  GLU G  90     223.596 134.717 -44.520  1.00177.23      GS7
ATOM  40412  OE1 GLU G  90     223.143 134.451 -45.654  1.00177.23      GS7
ATOM  40413  OE2 GLU G  90     224.815 134.862 -44.293  1.00177.23      GS7
ATOM  40414  C   GLU G  90     224.613 134.000 -40.179  1.00 78.07      GS7
ATOM  40415  O   GLU G  90     224.173 133.301 -39.268  1.00 78.07      GS7
ATOM  40416  N   VAL G  91     225.524 134.939 -39.963  1.00 47.63      GS7
ATOM  40417  CA  VAL G  91     225.993 135.163 -38.605  1.00 47.63      GS7
ATOM  40418  CB  VAL G  91     227.444 134.668 -38.409  1.00 61.73      GS7
ATOM  40419  CG1 VAL G  91     227.884 134.895 -36.967  1.00 61.73      GS7
ATOM  40420  CG2 VAL G  91     227.534 133.188 -38.741  1.00 61.73      GS7
ATOM  40421  C   VAL G  91     225.897 136.640 -38.268  1.00 47.63      GS7
ATOM  40422  O   VAL G  91     226.374 137.493 -39.020  1.00 47.63      GS7
ATOM  40423  N   SER G  92     225.261 136.929 -37.136  1.00 40.92      GS7
ATOM  40424  CA  SER G  92     225.061 138.297 -36.669  1.00 40.92      GS7
ATOM  40425  CB  SER G  92     224.526 138.298 -35.236  1.00102.24      GS7
ATOM  40426  OG  SER G  92     224.608 139.598 -34.672  1.00102.24      GS7
ATOM  40427  C   SER G  92     226.291 139.174 -36.701  1.00 40.92      GS7
ATOM  40428  O   SER G  92     227.325 138.824 -36.130  1.00 40.92      GS7
ATOM  40429  N   PRO G  93     226.194 140.341 -37.358  1.00 33.13      GS7
ATOM  40430  CD  PRO G  93     224.991 140.997 -37.889  1.00130.16      GS7
ATOM  40431  CA  PRO G  93     227.346 141.244 -37.417  1.00 33.13      GS7
ATOM  40432  CB  PRO G  93     226.750 142.535 -37.976  1.00130.16      GS7
ATOM  40433  CG  PRO G  93     225.294 142.438 -37.606  1.00130.16      GS7
ATOM  40434  C   PRO G  93     227.935 141.411 -36.014  1.00 33.13      GS7
ATOM  40435  O   PRO G  93     229.112 141.716 -35.844  1.00 33.13      GS7
ATOM  40436  N   ARG G  94     227.101 141.183 -35.009  1.00 35.13      GS7
ATOM  40437  CA  ARG G  94     227.536 141.279 -33.632  1.00 35.13      GS7
ATOM  40438  CB  ARG G  94     226.324 141.484 -32.716  1.00 63.48      GS7
ATOM  40439  CG  ARG G  94     226.470 140.935 -31.304  1.00 63.48      GS7
ATOM  40440  CD  ARG G  94     227.273 141.814 -30.359  1.00 63.48      GS7
ATOM  40441  NE  ARG G  94     227.501 141.103 -29.100  1.00 63.48      GS7
ATOM  40442  CZ  ARG G  94     228.143 141.598 -28.046  1.00 63.48      GS7
ATOM  40443  NH1 ARG G  94     228.628 142.830 -28.078  1.00 63.48      GS7
ATOM  40444  NH2 ARG G  94     228.330 140.848 -26.965  1.00 63.48      GS7
ATOM  40445  C   ARG G  94     228.262 139.986 -33.307  1.00 35.13      GS7
ATOM  40446  O   ARG G  94     229.464 139.995 -33.045  1.00 35.13      GS7
ATOM  40447  N   ARG G  95     227.541 138.872 -33.359  1.00 54.13      GS7
ATOM  40448  CA  ARG G  95     228.124 137.565 -33.052  1.00 54.13      GS7
ATOM  40449  CB  ARG G  95     227.120 136.457 -33.395  1.00 35.42      GS7
ATOM  40450  CG  ARG G  95     227.604 135.053 -33.072  1.00 35.42      GS7
ATOM  40451  CD  ARG G  95     226.496 134.012 -33.195  1.00 35.42      GS7
ATOM  40452  NE  ARG G  95     227.007 132.685 -32.882  1.00 35.42      GS7
ATOM  40453  CZ  ARG G  95     227.408 132.327 -31.671  1.00 35.42      GS7
ATOM  40454  NH1 ARG G  95     227.341 133.201 -30.675  1.00 35.42      GS7
ATOM  40455  NH2 ARG G  95     227.897 131.112 -31.456  1.00 35.42      GS7
ATOM  40456  C   ARG G  95     229.471 137.307 -33.757  1.00 54.13      GS7
ATOM  40457  O   ARG G  95     230.375 136.680 -33.183  1.00 54.13      GS7
ATOM  40458  N   GLN G  96     229.601 137.795 -34.992  1.00 50.89      GS7
ATOM  40459  CA  GLN G  96     230.834 137.620 -35.756  1.00 50.89      GS7
ATOM  40460  CB  GLN G  96     230.805 138.464 -37.030  1.00 75.09      GS7
ATOM  40461  CG  GLN G  96     229.971 137.874 -38.153  1.00 75.09      GS7
ATOM  40462  CD  GLN G  96     230.121 138.635 -39.464  1.00 75.09      GS7
ATOM  40463  OE1 GLN G  96     229.547 138.250 -40.480  1.00 75.09      GS7
ATOM  40464  NE2 GLN G  96     230.894 139.722 -39.444  1.00 75.09      GS7
ATOM  40465  C   GLN G  96     232.016 138.035 -34.902  1.00 50.89      GS7
ATOM  40466  O   GLN G  96     232.928 137.249 -34.647  1.00 50.89      GS7
ATOM  40467  N   GLN G  97     231.979 139.283 -34.458  1.00 40.06      GS7
ATOM  40468  CA  GLN G  97     233.029 139.828 -33.617  1.00 40.06      GS7
ATOM  40469  CB  GLN G  97     232.630 141.220 -33.129  1.00 83.57      GS7
ATOM  40470  CG  GLN G  97     233.581 141.825 -32.120  1.00 83.57      GS7
ATOM  40471  CD  GLN G  97     233.113 143.181 -31.628  1.00 83.57      GS7
ATOM  40472  OE1 GLN G  97     233.019 144.136 -32.406  1.00 83.57      GS7
ATOM  40473  NE2 GLN G  97     232.809 143.274 -30.332  1.00 83.57      GS7
ATOM  40474  C   GLN G  97     233.239 138.905 -32.429  1.00 40.06      GS7
ATOM  40475  O   GLN G  97     234.362 138.466 -32.141  1.00 40.06      GS7
ATOM  40476  N   SER G  98     232.139 138.596 -31.753  1.00 49.56      GS7
ATOM  40477  CA  SER G  98     232.182 137.741 -30.580  1.00 49.56      GS7
ATOM  40478  CB  SER G  98     230.765 137.324 -30.196  1.00 64.93      GS7
ATOM  40479  OG  SER G  98     229.944 138.457 -30.002  1.00 64.93      GS7
ATOM  40480  C   SER G  98     233.037 136.501 -30.794  1.00 49.56      GS7
ATOM  40481  O   SER G  98     233.923 136.195 -29.990  1.00 49.56      GS7
ATOM  40482  N   LEU G  99     232.770 135.801 -31.891  1.00 49.37      GS7
ATOM  40483  CA  LEU G  99     233.481 134.570 -32.204  1.00 49.37      GS7
ATOM  40484  CB  LEU G  99     232.702 133.789 -33.262  1.00 75.81      GS7
ATOM  40485  CG  LEU G  99     231.318 133.354 -32.771  1.00 75.81      GS7
ATOM  40486  CD1 LEU G  99     230.539 132.676 -33.882  1.00 75.81      GS7
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ATOM  40487  CD2 LEU G  99     231.487 132.416 -31.590  1.00 75.81      GS7
ATOM  40488  C   LEU G  99     234.919 134.773 -32.647  1.00 49.37      GS7
ATOM  40489  O   LEU G  99     235.826 134.078 -32.180  1.00 49.37      GS7
ATOM  40490  N   ALA G 100     235.132 135.718 -33.553  1.00 37.86      GS7
ATOM  40491  CA  ALA G 100     236.481 135.986 -34.028  1.00 37.86      GS7
ATOM  40492  CB  ALA G 100     236.478 137.171 -34.989  1.00 52.98      GS7
ATOM  40493  C   ALA G 100     237.365 136.283 -32.822  1.00 37.86      GS7
ATOM  40494  O   ALA G 100     238.359 135.586 -32.582  1.00 37.86      GS7
ATOM  40495  N   LEU G 101     236.983 137.305 -32.055  1.00 44.39      GS7
ATOM  40496  CA  LEU G 101     237.751 137.696 -30.876  1.00 44.39      GS7
ATOM  40497  CB  LEU G 101     237.018 138.786 -30.089  1.00 41.33      GS7
ATOM  40498  CG  LEU G 101     237.076 140.191 -30.704  1.00 41.33      GS7
ATOM  40499  CD1 LEU G 101     236.332 141.185 -29.839  1.00 41.33      GS7
ATOM  40500  CD2 LEU G 101     238.519 140.623 -30.830  1.00 41.33      GS7
ATOM  40501  C   LEU G 101     238.027 136.496 -29.989  1.00 44.39      GS7
ATOM  40502  O   LEU G 101     239.181 136.198 -29.666  1.00 44.39      GS7
ATOM  40503  N   ARG G 102     236.970 135.794 -29.609  1.00 46.00      GS7
ATOM  40504  CA  ARG G 102     237.141 134.625 -28.777  1.00 46.00      GS7
ATOM  40505  CB  ARG G 102     235.822 133.922 -28.558  1.00 41.60      GS7
ATOM  40506  CG  ARG G 102     236.005 132.626 -27.812  1.00 41.60      GS7
ATOM  40507  CD  ARG G 102     234.713 131.859 -27.754  1.00 41.60      GS7
ATOM  40508  NE  ARG G 102     233.631 132.743 -27.364  1.00 41.60      GS7
ATOM  40509  CZ  ARG G 102     232.368 132.370 -27.288  1.00 41.60      GS7
ATOM  40510  NH1 ARG G 102     232.035 131.118 -27.578  1.00 41.60      GS7
ATOM  40511  NH2 ARG G 102     231.444 133.248 -26.925  1.00 41.60      GS7
ATOM  40512  C   ARG G 102     238.098 133.649 -29.434  1.00 46.00      GS7
ATOM  40513  O   ARG G 102     239.123 133.299 -28.854  1.00 46.00      GS7
ATOM  40514  N   TRP G 103     237.759 133.210 -30.644  1.00 45.69      GS7
ATOM  40515  CA  TRP G 103     238.594 132.259 -31.365  1.00 45.69      GS7
ATOM  40516  CB  TRP G 103     238.164 132.138 -32.817  1.00 46.74      GS7
ATOM  40517  CG  TRP G 103     236.965 131.316 -33.008  1.00 46.74      GS7
ATOM  40518  CD2 TRP G 103     236.034 131.409 -34.084  1.00 46.74      GS7
ATOM  40519  CE2 TRP G 103     235.057 130.420 -33.875  1.00 46.74      GS7
ATOM  40520  CE3 TRP G 103     235.932 132.231 -35.207  1.00 46.74      GS7
ATOM  40521  CD1 TRP G 103     236.535 130.300 -32.211  1.00 46.74      GS7
ATOM  40522  NE1 TRP G 103     235.385 129.756 -32.723  1.00 46.74      GS7
ATOM  40523  CZ2 TRP G 103     233.984 130.231 -34.749  1.00 46.74      GS7
ATOM  40524  CZ3 TRP G 103     234.865 132.042 -36.078  1.00 46.74      GS7
ATOM  40525  CH2 TRP G 103     233.906 131.050 -35.843  1.00 46.74      GS7
ATOM  40526  C   TRP G 103     240.056 132.631 -31.336  1.00 45.69      GS7
ATOM  40527  O   TRP G 103     240.921 131.765 -31.211  1.00 45.69      GS7
ATOM  40528  N   LEU G 104     240.342 133.918 -31.474  1.00 34.93      GS7
ATOM  40529  CA  LEU G 104     241.721 134.358 -31.449  1.00 34.93      GS7
ATOM  40530  CB  LEU G 104     241.777 135.870 -31.613  1.00 36.31      GS7
ATOM  40531  CG  LEU G 104     241.441 136.235 -33.058  1.00 36.31      GS7
ATOM  40532  CD1 LEU G 104     241.219 137.732 -33.233  1.00 36.31      GS7
ATOM  40533  CD2 LEU G 104     242.577 135.761 -33.913  1.00 36.31      GS7
ATOM  40534  C   LEU G 104     242.373 133.920 -30.148  1.00 34.93      GS7
ATOM  40535  O   LEU G 104     243.274 133.087 -30.151  1.00 34.93      GS7
ATOM  40536  N   VAL G 105     241.892 134.452 -29.032  1.00 25.13      GS7
ATOM  40537  CA  VAL G 105     242.453 134.106 -27.731  1.00 25.13      GS7
ATOM  40538  CB  VAL G 105     241.594 134.625 -26.583  1.00 34.14      GS7
ATOM  40539  CG1 VAL G 105     242.175 134.137 -25.255  1.00 34.14      GS7
ATOM  40540  CG2 VAL G 105     241.527 136.137 -26.627  1.00 34.14      GS7
ATOM  40541  C   VAL G 105     242.639 132.618 -27.489  1.00 25.13      GS7
ATOM  40542  O   VAL G 105     243.647 132.209 -26.914  1.00 25.13      GS7
ATOM  40543  N   GLN G 106     241.652 131.820 -27.891  1.00 47.69      GS7
ATOM  40544  CA  GLN G 106     241.711 130.370 -27.704  1.00 47.69      GS7
ATOM  40545  CB  GLN G 106     240.409 129.702 -28.160  1.00 96.24      GS7
ATOM  40546  CG  GLN G 106     239.195 129.942 -27.281  1.00 96.24      GS7
ATOM  40547  CD  GLN G 106     237.947 129.246 -27.809  1.00 96.24      GS7
ATOM  40548  OE1 GLN G 106     236.879 129.325 -27.205  1.00 96.24      GS7
ATOM  40549  NE2 GLN G 106     238.078 128.564 -28.942  1.00 96.24      GS7
ATOM  40550  C   GLN G 106     242.854 129.821 -28.534  1.00 47.69      GS7
ATOM  40551  O   GLN G 106     243.757 129.152 -28.032  1.00 47.69      GS7
ATOM  40552  N   ALA G 107     242.789 130.112 -29.823  1.00 61.77      GS7
ATOM  40553  CA  ALA G 107     243.796 129.668 -30.755  1.00 61.77      GS7
ATOM  40554  CB  ALA G 107     243.493 130.238 -32.134  1.00 12.22      GS7
ATOM  40555  C   ALA G 107     245.158 130.143 -30.265  1.00 61.77      GS7
ATOM  40556  O   ALA G 107     246.152 129.424 -30.354  1.00 61.77      GS7
ATOM  40557  N   ALA G 108     245.201 131.356 -29.730  1.00 46.27      GS7
ATOM  40558  CA  ALA G 108     246.457 131.900 -29.253  1.00 46.27      GS7
ATOM  40559  CB  ALA G 108     246.250 133.286 -28.690  1.00 10.20      GS7
ATOM  40560  C   ALA G 108     247.076 130.998 -28.208  1.00 46.27      GS7
ATOM  40561  O   ALA G 108     248.180 130.509 -28.402  1.00 46.27      GS7
ATOM  40562  N   ASN G 109     246.373 130.759 -27.107  1.00 38.03      GS7
ATOM  40563  CA  ASN G 109     246.927 129.912 -26.060  1.00 38.03      GS7
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ATOM  40564  CB  ASN G 109     246.076 129.980 -24.800  1.00 73.09      GS7
ATOM  40565  CG  ASN G 109     246.072 131.356 -24.187  1.00 73.09      GS7
ATOM  40566  OD1 ASN G 109     245.891 131.511 -22.980  1.00 73.09      GS7
ATOM  40567  ND2 ASN G 109     246.262 132.370 -25.018  1.00 73.09      GS7
ATOM  40568  C   ASN G 109     247.089 128.467 -26.505  1.00 38.03      GS7
ATOM  40569  O   ASN G 109     247.405 127.575 -25.701  1.00 38.03      GS7
ATOM  40570  N   GLN G 110     246.874 128.251 -27.798  1.00 41.60      GS7
ATOM  40571  CA  GLN G 110     247.018 126.936 -28.400  1.00 41.60      GS7
ATOM  40572  CB  GLN G 110     246.041 126.767 -29.563  1.00101.95      GS7
ATOM  40573  CG  GLN G 110     244.698 126.226 -29.162  1.00101.95      GS7
ATOM  40574  CD  GLN G 110     244.826 124.892 -28.469  1.00101.95      GS7
ATOM  40575  OE1 GLN G 110     245.306 124.811 -27.336  1.00101.95      GS7
ATOM  40576  NE2 GLN G 110     244.414 123.832 -29.153  1.00101.95      GS7
ATOM  40577  C   GLN G 110     248.431 126.815 -28.924  1.00 41.60      GS7
ATOM  40578  O   GLN G 110     248.933 125.713 -29.130  1.00 41.60      GS7
ATOM  40579  N   ARG G 111     249.064 127.965 -29.139  1.00 45.19      GS7
ATOM  40580  CA  ARG G 111     250.420 128.025 -29.653  1.00 45.19      GS7
ATOM  40581  CB  ARG G 111     250.763 129.473 -29.969  1.00 69.07      GS7
ATOM  40582  CG  ARG G 111     250.215 129.898 -31.310  1.00 69.07      GS7
ATOM  40583  CD  ARG G 111     250.156 131.399 -31.463  1.00 69.07      GS7
ATOM  40584  NE  ARG G 111     250.257 131.778 -32.867  1.00 69.07      GS7
ATOM  40585  CZ  ARG G 111     251.366 131.638 -33.583  1.00 69.07      GS7
ATOM  40586  NH1 ARG G 111     252.455 131.133 -33.016  1.00 69.07      GS7
ATOM  40587  NH2 ARG G 111     251.389 131.999 -34.860  1.00 69.07      GS7
ATOM  40588  C   ARG G 111     251.469 127.399 -28.736  1.00 45.19      GS7
ATOM  40589  O   ARG G 111     251.159 126.975 -27.620  1.00 45.19      GS7
ATOM  40590  N   PRO G 112     252.723 127.299 -29.215  1.00 41.18      GS7
ATOM  40591  CD  PRO G 112     253.092 127.431 -30.636  1.00106.74      GS7
ATOM  40592  CA  PRO G 112     253.836 126.720 -28.459  1.00 41.18      GS7
ATOM  40593  CB  PRO G 112     254.724 126.161 -29.555  1.00106.74      GS7
ATOM  40594  CG  PRO G 112     254.588 127.193 -30.612  1.00106.74      GS7
ATOM  40595  C   PRO G 112     254.608 127.678 -27.548  1.00 41.18      GS7
ATOM  40596  O   PRO G 112     255.074 127.269 -26.476  1.00 41.18      GS7
ATOM  40597  N   GLU G 113     254.755 128.936 -27.970  1.00 35.52      GS7
ATOM  40598  CA  GLU G 113     255.498 129.907 -27.174  1.00 35.52      GS7
ATOM  40599  CB  GLU G 113     255.268 131.332 -27.689  1.00 64.89      GS7
ATOM  40600  CG  GLU G 113     254.156 131.487 -28.703  1.00 64.89      GS7
ATOM  40601  CD  GLU G 113     254.552 131.029 -30.089  1.00 64.89      GS7
ATOM  40602  OE1 GLU G 113     255.580 131.506 -30.604  1.00 64.89      GS7
ATOM  40603  OE2 GLU G 113     253.831 130.203 -30.673  1.00 64.89      GS7
ATOM  40604  C   GLU G 113     255.159 129.848 -25.684  1.00 35.52      GS7
ATOM  40605  O   GLU G 113     253.985 129.731 -25.304  1.00 35.52      GS7
ATOM  40606  N   ARG G 114     256.191 129.929 -24.843  1.00 64.77      GS7
ATOM  40607  CA  ARG G 114     255.999 129.890 -23.396  1.00 64.77      GS7
ATOM  40608  CB  ARG G 114     257.338 129.711 -22.673  1.00 59.58      GS7
ATOM  40609  CG  ARG G 114     258.186 128.499 -23.054  1.00 59.58      GS7
ATOM  40610  CD  ARG G 114     259.342 128.401 -22.048  1.00 59.58      GS7
ATOM  40611  NE  ARG G 114     260.349 127.359 -22.285  1.00 59.58      GS7
ATOM  40612  CZ  ARG G 114     260.093 126.057 -22.411  1.00 59.58      GS7
ATOM  40613  NH1 ARG G 114     258.843 125.601 -22.343  1.00 59.58      GS7
ATOM  40614  NH2 ARG G 114     261.095 125.196 -22.562  1.00 59.58      GS7
ATOM  40615  C   ARG G 114     255.331 131.177 -22.887  1.00 64.77      GS7
ATOM  40616  O   ARG G 114     254.275 131.136 -22.253  1.00 64.77      GS7
ATOM  40617  N   ARG G 115     255.958 132.317 -23.166  1.00 66.65      GS7
ATOM  40618  CA  ARG G 115     255.450 133.617 -22.740  1.00 66.65      GS7
ATOM  40619  CB  ARG G 115     256.514 134.691 -22.980  1.00198.90      GS7
ATOM  40620  CG  ARG G 115     257.830 134.398 -22.269  1.00198.90      GS7
ATOM  40621  CD  ARG G 115     258.969 135.325 -22.690  1.00198.90      GS7
ATOM  40622  NE  ARG G 115     258.856 136.675 -22.142  1.00198.90      GS7
ATOM  40623  CZ  ARG G 115     258.056 137.622 -22.621  1.00198.90      GS7
ATOM  40624  NH1 ARG G 115     257.283 137.378 -23.671  1.00198.90      GS7
ATOM  40625  NH2 ARG G 115     258.034 138.820 -22.051  1.00198.90      GS7
ATOM  40626  C   ARG G 115     254.164 133.968 -23.484  1.00 66.65      GS7
ATOM  40627  O   ARG G 115     254.167 134.212 -24.689  1.00 66.65      GS7
ATOM  40628  N   ALA G 116     253.064 133.998 -22.744  1.00 55.61      GS7
ATOM  40629  CA  ALA G 116     251.758 134.286 -23.309  1.00 55.61      GS7
ATOM  40630  CB  ALA G 116     250.755 134.512 -22.188  1.00  4.24      GS7
ATOM  40631  C   ALA G 116     251.698 135.442 -24.298  1.00 55.61      GS7
ATOM  40632  O   ALA G 116     251.347 135.238 -25.459  1.00 55.61      GS7
ATOM  40633  N   ALA G 117     252.030 136.649 -23.846  1.00 50.44      GS7
ATOM  40634  CA  ALA G 117     251.969 137.827 -24.709  1.00 50.44      GS7
ATOM  40635  CB  ALA G 117     252.830 138.923 -24.147  1.00 56.88      GS7
ATOM  40636  C   ALA G 117     252.402 137.495 -26.129  1.00 50.44      GS7
ATOM  40637  O   ALA G 117     251.737 137.852 -27.104  1.00 50.44      GS7
ATOM  40638  N   VAL G 118     253.521 136.792 -26.232  1.00 59.61      GS7
ATOM  40639  CA  VAL G 118     254.056 136.380 -27.517  1.00 59.61      GS7
ATOM  40640  CB  VAL G 118     255.159 135.358 -27.325  1.00 30.38      GS7
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ATOM  40641  CG1 VAL G 118     255.703 134.939 -28.662  1.00 30.38      GS7
ATOM  40642  CG2 VAL G 118     256.244 135.935 -26.423  1.00 30.38      GS7
ATOM  40643  C   VAL G 118     252.969 135.739 -28.365  1.00 59.61      GS7
ATOM  40644  O   VAL G 118     252.739 136.142 -29.504  1.00 59.61      GS7
ATOM  40645  N   ARG G 119     252.311 134.731 -27.798  1.00 50.23      GS7
ATOM  40646  CA  ARG G 119     251.246 134.021 -28.488  1.00 50.23      GS7
ATOM  40647  CB  ARG G 119     250.520 133.086 -27.528  1.00 39.68      GS7
ATOM  40648  CG  ARG G 119     251.418 132.021 -26.943  1.00 39.68      GS7
ATOM  40649  CD  ARG G 119     250.619 130.876 -26.370  1.00 39.68      GS7
ATOM  40650  NE  ARG G 119     249.857 131.275 -25.189  1.00 39.68      GS7
ATOM  40651  CZ  ARG G 119     250.388 131.487 -23.986  1.00 39.68      GS7
ATOM  40652  NH1 ARG G 119     251.696 131.340 -23.791  1.00 39.68      GS7
ATOM  40653  NH2 ARG G 119     249.609 131.838 -22.972  1.00 39.68      GS7
ATOM  40654  C   ARG G 119     250.249 134.971 -29.120  1.00 50.23      GS7
ATOM  40655  O   ARG G 119     250.026 134.911 -30.328  1.00 50.23      GS7
ATOM  40656  N   ILE G 120     249.645 135.848 -28.319  1.00 44.28      GS7
ATOM  40657  CA  ILE G 120     248.679 136.793 -28.872  1.00 44.28      GS7
ATOM  40658  CB  ILE G 120     248.209 137.814 -27.838  1.00 57.28      GS7
ATOM  40659  CG2 ILE G 120     247.479 138.963 -28.527  1.00 57.28      GS7
ATOM  40660  CG1 ILE G 120     247.292 137.138 -26.830  1.00 57.28      GS7
ATOM  40661  CD1 ILE G 120     246.626 138.117 -25.904  1.00 57.28      GS7
ATOM  40662  C   ILE G 120     249.334 137.554 -30.003  1.00 44.28      GS7
ATOM  40663  O   ILE G 120     248.796 137.637 -31.118  1.00 44.28      GS7
ATOM  40664  N   ALA G 121     250.504 138.108 -29.690  1.00 54.37      GS7
ATOM  40665  CA  ALA G 121     251.293 138.877 -30.644  1.00 54.37      GS7
ATOM  40666  CB  ALA G 121     252.693 139.107 -30.091  1.00 60.38      GS7
ATOM  40667  C   ALA G 121     251.369 138.094 -31.939  1.00 54.37      GS7
ATOM  40668  O   ALA G 121     250.952 138.561 -33.000  1.00 54.37      GS7
ATOM  40669  N   HIS G 122     251.900 136.884 -31.827  1.00 37.93      GS7
ATOM  40670  CA  HIS G 122     252.042 136.010 -32.969  1.00 37.93      GS7
ATOM  40671  CB  HIS G 122     252.783 134.743 -32.546  1.00 91.47      GS7
ATOM  40672  CG  HIS G 122     254.256 134.946 -32.385  1.00 91.47      GS7
ATOM  40673  CD2 HIS G 122     255.061 135.962 -32.777  1.00 91.47      GS7
ATOM  40674  ND1 HIS G 122     255.078 134.020 -31.780  1.00 91.47      GS7
ATOM  40675  CE1 HIS G 122     256.325 134.455 -31.807  1.00 91.47      GS7
ATOM  40676  NE2 HIS G 122     256.342 135.632 -32.407  1.00 91.47      GS7
ATOM  40677  C   HIS G 122     250.705 135.681 -33.620  1.00 37.93      GS7
ATOM  40678  O   HIS G 122     250.372 136.252 -34.653  1.00 37.93      GS7
ATOM  40679  N   GLU G 123     249.939 134.780 -33.014  1.00 37.13      GS7
ATOM  40680  CA  GLU G 123     248.647 134.386 -33.559  1.00 37.13      GS7
ATOM  40681  CB  GLU G 123     247.735 133.874 -32.434  1.00 47.53      GS7
ATOM  40682  CG  GLU G 123     246.387 133.327 -32.913  1.00 47.53      GS7
ATOM  40683  CD  GLU G 123     246.518 132.113 -33.826  1.00 47.53      GS7
ATOM  40684  OE1 GLU G 123     245.525 131.770 -34.508  1.00 47.53      GS7
ATOM  40685  OE2 GLU G 123     247.608 131.499 -33.857  1.00 47.53      GS7
ATOM  40686  C   GLU G 123     247.993 135.557 -34.296  1.00 37.13      GS7
ATOM  40687  O   GLU G 123     247.491 135.401 -35.418  1.00 37.13      GS7
ATOM  40688  N   LEU G 124     248.008 136.733 -33.673  1.00 40.93      GS7
ATOM  40689  CA  LEU G 124     247.432 137.915 -34.303  1.00 40.93      GS7
ATOM  40690  CB  LEU G 124     247.760 139.157 -33.485  1.00 45.79      GS7
ATOM  40691  CG  LEU G 124     246.685 139.573 -32.492  1.00 45.79      GS7
ATOM  40692  CD1 LEU G 124     247.185 140.742 -31.666  1.00 45.79      GS7
ATOM  40693  CD2 LEU G 124     245.426 139.957 -33.246  1.00 45.79      GS7
ATOM  40694  C   LEU G 124     247.968 138.089 -35.725  1.00 40.93      GS7
ATOM  40695  O   LEU G 124     247.210 138.087 -36.696  1.00 40.93      GS7
ATOM  40696  N   MET G 125     249.285 138.239 -35.830  1.00 47.40      GS7
ATOM  40697  CA  MET G 125     249.952 138.412 -37.109  1.00 47.40      GS7
ATOM  40698  CB  MET G 125     251.465 138.361 -36.897  1.00 99.62      GS7
ATOM  40699  CG  MET G 125     251.944 139.383 -35.871  1.00 99.62      GS7
ATOM  40700  SD  MET G 125     253.727 139.402 -35.565  1.00 99.62      GS7
ATOM  40701  CE  MET G 125     253.817 138.804 -33.896  1.00 99.62      GS7
ATOM  40702  C   MET G 125     249.499 137.328 -38.081  1.00 47.40      GS7
ATOM  40703  O   MET G 125     249.005 137.629 -39.166  1.00 47.40      GS7
ATOM  40704  N   ASP G 126     249.651 136.069 -37.681  1.00 49.97      GS7
ATOM  40705  CA  ASP G 126     249.246 134.946 -38.519  1.00 49.97      GS7
ATOM  40706  CB  ASP G 126     249.288 133.643 -37.724  1.00106.61      GS7
ATOM  40707  CG  ASP G 126     250.699 133.202 -37.406  1.00106.61      GS7
ATOM  40708  OD1 ASP G 126     251.440 133.969 -36.757  1.00106.61      GS7
ATOM  40709  OD2 ASP G 126     251.071 132.083 -37.808  1.00106.61      GS7
ATOM  40710  C   ASP G 126     247.835 135.194 -39.020  1.00 49.97      GS7
ATOM  40711  O   ASP G 126     247.534 135.041 -40.210  1.00 49.97      GS7
ATOM  40712  N   ALA G 127     246.962 135.578 -38.101  1.00 54.59      GS7
ATOM  40713  CA  ALA G 127     245.590 135.852 -38.474  1.00 54.59      GS7
ATOM  40714  CB  ALA G 127     244.850 136.465 -37.308  1.00114.77      GS7
ATOM  40715  C   ALA G 127     245.645 136.824 -39.636  1.00 54.59      GS7
ATOM  40716  O   ALA G 127     245.078 136.578 -40.695  1.00 54.59      GS7
ATOM  40717  N   ALA G 128     246.361 137.923 -39.428  1.00 63.63      GS7
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ATOM  40718  CA  ALA G 128     246.513 138.953 -40.442  1.00 63.63      GS7
ATOM  40719  CB  ALA G 128     247.566 139.943 -40.014  1.00 50.56      GS7
ATOM  40720  C   ALA G 128     246.902 138.333 -41.766  1.00 63.63      GS7
ATOM  40721  O   ALA G 128     246.140 138.389 -42.734  1.00 63.63      GS7
ATOM  40722  N   GLU G 129     248.097 137.747 -41.798  1.00 93.89      GS7
ATOM  40723  CA  GLU G 129     248.608 137.103 -43.001  1.00 93.89      GS7
ATOM  40724  CB  GLU G 129     249.845 136.258 -42.675  1.00201.30      GS7
ATOM  40725  CG  GLU G 129     251.129 137.066 -42.500  1.00201.30      GS7
ATOM  40726  CD  GLU G 129     251.630 137.661 -43.806  1.00201.30      GS7
ATOM  40727  OE1 GLU G 129     252.022 136.882 -44.702  1.00201.30      GS7
ATOM  40728  OE2 GLU G 129     251.629 138.904 -43.939  1.00201.30      GS7
ATOM  40729  C   GLU G 129     247.520 136.232 -43.600  1.00 93.89      GS7
ATOM  40730  O   GLU G 129     247.146 136.408 -44.757  1.00 93.89      GS7
ATOM  40731  N   GLY G 130     247.001 135.298 -42.814  1.00 51.58      GS7
ATOM  40732  CA  GLY G 130     245.948 134.461 -43.336  1.00 51.58      GS7
ATOM  40733  C   GLY G 130     245.947 133.044 -42.824  1.00 51.58      GS7
ATOM  40734  O   GLY G 130     245.190 132.217 -43.328  1.00 51.58      GS7
ATOM  40735  N   LYS G 131     246.782 132.738 -41.840  1.00 49.44      GS7
ATOM  40736  CA  LYS G 131     246.801 131.382 -41.305  1.00 49.44      GS7
ATOM  40737  CB  LYS G 131     248.083 130.655 -41.720  1.00160.41      GS7
ATOM  40738  CG  LYS G 131     249.365 131.463 -41.581  1.00160.41      GS7
ATOM  40739  CD  LYS G 131     249.650 132.286 -42.832  1.00160.41      GS7
ATOM  40740  CE  LYS G 131     251.057 132.875 -42.795  1.00160.41      GS7
ATOM  40741  NZ  LYS G 131     251.420 133.595 -44.052  1.00160.41      GS7
ATOM  40742  C   LYS G 131     246.670 131.382 -39.793  1.00 49.44      GS7
ATOM  40743  O   LYS G 131     246.565 132.437 -39.181  1.00 49.44      GS7
ATOM  40744  N   GLY G 132     246.657 130.201 -39.189  1.00 83.26      GS7
ATOM  40745  CA  GLY G 132     246.549 130.131 -37.743  1.00 83.26      GS7
ATOM  40746  C   GLY G 132     245.277 129.494 -37.222  1.00 83.26      GS7
ATOM  40747  O   GLY G 132     244.216 129.605 -37.837  1.00 83.26      GS7
ATOM  40748  N   GLY G 133     245.391 128.838 -36.071  1.00 63.08      GS7
ATOM  40749  CA  GLY G 133     244.253 128.171 -35.456  1.00 63.08      GS7
ATOM  40750  C   GLY G 133     242.920 128.901 -35.470  1.00 63.08      GS7
ATOM  40751  O   GLY G 133     241.866 128.271 -35.513  1.00 63.08      GS7
ATOM  40752  N   ALA G 134     242.951 130.227 -35.417  1.00 44.94      GS7
ATOM  40753  CA  ALA G 134     241.717 130.991 -35.431  1.00 44.94      GS7
ATOM  40754  CB  ALA G 134     241.980 132.424 -35.040  1.00 39.27      GS7
ATOM  40755  C   ALA G 134     241.151 130.929 -36.829  1.00 44.94      GS7
ATOM  40756  O   ALA G 134     239.995 130.555 -37.027  1.00 44.94      GS7
ATOM  40757  N   VAL G 135     241.968 131.293 -37.808  1.00 56.02      GS7
ATOM  40758  CA  VAL G 135     241.514 131.253 -39.192  1.00 56.02      GS7
ATOM  40759  CB  VAL G 135     242.652 131.572 -40.157  1.00 96.60      GS7
ATOM  40760  CG1 VAL G 135     242.076 132.084 -41.466  1.00 96.60      GS7
ATOM  40761  CG2 VAL G 135     243.598 132.585 -39.525  1.00 96.60      GS7
ATOM  40762  C   VAL G 135     241.007 129.843 -39.464  1.00 56.02      GS7
ATOM  40763  O   VAL G 135     239.937 129.663 -40.045  1.00 56.02      GS7
ATOM  40764  N   LYS G 136     241.791 128.855 -39.029  1.00 53.97      GS7
ATOM  40765  CA  LYS G 136     241.444 127.445 -39.168  1.00 53.97      GS7
ATOM  40766  CB  LYS G 136     242.246 126.619 -38.162  1.00168.08      GS7
ATOM  40767  CG  LYS G 136     241.789 125.174 -38.010  1.00168.08      GS7
ATOM  40768  CD  LYS G 136     241.863 124.716 -36.549  1.00168.08      GS7
ATOM  40769  CE  LYS G 136     243.272 124.850 -35.968  1.00168.08      GS7
ATOM  40770  NZ  LYS G 136     243.338 124.504 -34.516  1.00168.08      GS7
ATOM  40771  C   LYS G 136     239.953 127.303 -38.867  1.00 53.97      GS7
ATOM  40772  O   LYS G 136     239.128 127.180 -39.777  1.00 53.97      GS7
ATOM  40773  N   LYS G 137     239.619 127.344 -37.578  1.00 52.70      GS7
ATOM  40774  CA  LYS G 137     238.241 127.231 -37.111  1.00 52.70      GS7
ATOM  40775  CB  LYS G 137     238.153 127.664 -35.641  1.00 80.96      GS7
ATOM  40776  CG  LYS G 137     239.194 126.962 -34.754  1.00 80.96      GS7
ATOM  40777  CD  LYS G 137     239.034 127.245 -33.249  1.00 80.96      GS7
ATOM  40778  CE  LYS G 137     240.030 126.418 -32.421  1.00 80.96      GS7
ATOM  40779  NZ  LYS G 137     239.733 126.432 -30.963  1.00 80.96      GS7
ATOM  40780  C   LYS G 137     237.295 128.066 -37.968  1.00 52.70      GS7
ATOM  40781  O   LYS G 137     236.300 127.561 -38.480  1.00 52.70      GS7
ATOM  40782  N   LYS G 138     237.613 129.341 -38.145  1.00 35.91      GS7
ATOM  40783  CA  LYS G 138     236.755 130.202 -38.945  1.00 35.91      GS7
ATOM  40784  CB  LYS G 138     237.400 131.581 -39.118  1.00 49.81      GS7
ATOM  40785  CG  LYS G 138     236.601 132.555 -39.983  1.00 49.81      GS7
ATOM  40786  CD  LYS G 138     236.667 132.175 -41.456  1.00 49.81      GS7
ATOM  40787  CE  LYS G 138     236.157 133.283 -42.347  1.00 49.81      GS7
ATOM  40788  NZ  LYS G 138     236.315 132.905 -43.772  1.00 49.81      GS7
ATOM  40789  C   LYS G 138     236.493 129.567 -40.305  1.00 35.91      GS7
ATOM  40790  O   LYS G 138     235.349 129.449 -40.745  1.00 35.91      GS7
ATOM  40791  N   GLU G 139     237.566 129.167 -40.973  1.00 57.29      GS7
ATOM  40792  CA  GLU G 139     237.444 128.549 -42.278  1.00 57.29      GS7
ATOM  40793  CB  GLU G 139     238.830 128.276 -42.862  1.00156.57      GS7
ATOM  40794  CG  GLU G 139     239.670 129.530 -43.035  1.00156.57      GS7
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ATOM  40795  CD  GLU G 139     241.056 129.238 -43.579  1.00156.57      GS7
ATOM  40796  OE1 GLU G 139     241.787 128.443 -42.951  1.00156.57      GS7
ATOM  40797  OE2 GLU G 139     241.416 129.806 -44.632  1.00156.57      GS7
ATOM  40798  C   GLU G 139     236.662 127.254 -42.135  1.00 57.29      GS7
ATOM  40799  O   GLU G 139     235.789 126.960 -42.949  1.00 57.29      GS7
ATOM  40800  N   ASP G 140     236.969 126.493 -41.086  1.00 68.44      GS7
ATOM  40801  CA  ASP G 140     236.290 125.224 -40.830  1.00 68.44      GS7
ATOM  40802  CB  ASP G 140     236.769 124.603 -39.514  1.00154.66      GS7
ATOM  40803  CG  ASP G 140     238.227 124.190 -39.554  1.00154.66      GS7
ATOM  40804  OD1 ASP G 140     238.596 123.375 -40.427  1.00154.66      GS7
ATOM  40805  OD2 ASP G 140     239.004 124.675 -38.705  1.00154.66      GS7
ATOM  40806  C   ASP G 140     234.787 125.434 -40.757  1.00 68.44      GS7
ATOM  40807  O   ASP G 140     234.020 124.791 -41.473  1.00 68.44      GS7
ATOM  40808  N   VAL G 141     234.375 126.341 -39.878  1.00 60.58      GS7
ATOM  40809  CA  VAL G 141     232.967 126.648 -39.699  1.00 60.58      GS7
ATOM  40810  CB  VAL G 141     232.783 127.895 -38.826  1.00 60.05      GS7
ATOM  40811  CG1 VAL G 141     231.302 128.164 -38.610  1.00 60.05      GS7
ATOM  40812  CG2 VAL G 141     233.493 127.698 -37.500  1.00 60.05      GS7
ATOM  40813  C   VAL G 141     232.301 126.880 -41.045  1.00 60.58      GS7
ATOM  40814  O   VAL G 141     231.437 126.103 -41.446  1.00 60.58      GS7
ATOM  40815  N   GLU G 142     232.709 127.940 -41.741  1.00 33.62      GS7
ATOM  40816  CA  GLU G 142     232.139 128.251 -43.051  1.00 33.62      GS7
ATOM  40817  CB  GLU G 142     232.960 129.347 -43.747  1.00 63.02      GS7
ATOM  40818  CG  GLU G 142     232.785 130.731 -43.120  1.00 63.02      GS7
ATOM  40819  CD  GLU G 142     233.425 131.864 -43.924  1.00 63.02      GS7
ATOM  40820  OE1 GLU G 142     233.111 133.044 -43.644  1.00 63.02      GS7
ATOM  40821  OE2 GLU G 142     234.242 131.582 -44.827  1.00 63.02      GS7
ATOM  40822  C   GLU G 142     232.055 126.994 -43.929  1.00 33.62      GS7
ATOM  40823  O   GLU G 142     231.165 126.878 -44.779  1.00 33.62      GS7
ATOM  40824  N   ARG G 143     232.980 126.057 -43.711  1.00 60.53      GS7
ATOM  40825  CA  ARG G 143     232.992 124.806 -44.458  1.00 60.53      GS7
ATOM  40826  CB  ARG G 143     234.193 123.932 -44.083  1.00201.30      GS7
ATOM  40827  CG  ARG G 143     235.566 124.514 -44.356  1.00201.30      GS7
ATOM  40828  CD  ARG G 143     236.636 123.539 -43.871  1.00201.30      GS7
ATOM  40829  NE  ARG G 143     237.984 124.102 -43.903  1.00201.30      GS7
ATOM  40830  CZ  ARG G 143     239.058 123.490 -43.412  1.00201.30      GS7
ATOM  40831  NH1 ARG G 143     238.944 122.293 -42.850  1.00201.30      GS7
ATOM  40832  NH2 ARG G 143     240.247 124.076 -43.475  1.00201.30      GS7
ATOM  40833  C   ARG G 143     231.727 124.040 -44.097  1.00 60.53      GS7
ATOM  40834  O   ARG G 143     231.019 123.558 -44.973  1.00 60.53      GS7
ATOM  40835  N   MET G 144     231.459 123.918 -42.797  1.00 43.40      GS7
ATOM  40836  CA  MET G 144     230.284 123.199 -42.322  1.00 43.40      GS7
ATOM  40837  CB  MET G 144     230.189 123.282 -40.801  1.00153.49      GS7
ATOM  40838  CG  MET G 144     231.351 122.608 -40.105  1.00153.49      GS7
ATOM  40839  SD  MET G 144     231.783 121.062 -40.931  1.00153.49      GS7
ATOM  40840  CE  MET G 144     230.464 119.979 -40.362  1.00153.49      GS7
ATOM  40841  C   MET G 144     229.030 123.758 -42.965  1.00 43.40      GS7
ATOM  40842  O   MET G 144     228.114 123.014 -43.304  1.00 43.40      GS7
ATOM  40843  N   ALA G 145     228.980 125.074 -43.123  1.00 42.86      GS7
ATOM  40844  CA  ALA G 145     227.844 125.693 -43.780  1.00 42.86      GS7
ATOM  40845  CB  ALA G 145     227.883 127.198 -43.586  1.00 84.99      GS7
ATOM  40846  C   ALA G 145     228.139 125.328 -45.225  1.00 42.86      GS7
ATOM  40847  O   ALA G 145     229.062 124.560 -45.466  1.00 42.86      GS7
ATOM  40848  N   GLU G 146     227.397 125.869 -46.187  1.00147.85      GS7
ATOM  40849  CA  GLU G 146     227.649 125.555 -47.600  1.00147.85      GS7
ATOM  40850  CB  GLU G 146     228.662 126.536 -48.195  1.00188.66      GS7
ATOM  40851  CG  GLU G 146     228.037 127.806 -48.746  1.00188.66      GS7
ATOM  40852  CD  GLU G 146     226.995 127.520 -49.815  1.00188.66      GS7
ATOM  40853  OE1 GLU G 146     227.321 126.810 -50.790  1.00188.66      GS7
ATOM  40854  OE2 GLU G 146     225.850 128.004 -49.683  1.00188.66      GS7
ATOM  40855  C   GLU G 146     228.139 124.125 -47.832  1.00147.85      GS7
ATOM  40856  O   GLU G 146     228.828 123.839 -48.812  1.00147.85      GS7
ATOM  40857  N   ALA G 147     227.778 123.243 -46.909  1.00 66.75      GS7
ATOM  40858  CA  ALA G 147     228.131 121.835 -46.960  1.00 66.75      GS7
ATOM  40859  CB  ALA G 147     229.198 121.516 -45.936  1.00 41.87      GS7
ATOM  40860  C   ALA G 147     226.829 121.165 -46.590  1.00 66.75      GS7
ATOM  40861  O   ALA G 147     226.450 120.145 -47.159  1.00 66.75      GS7
ATOM  40862  N   ASN G 148     226.152 121.752 -45.612  1.00 77.05      GS7
ATOM  40863  CA  ASN G 148     224.852 121.265 -45.197  1.00 77.05      GS7
ATOM  40864  CB  ASN G 148     224.676 121.394 -43.694  1.00 82.53      GS7
ATOM  40865  CG  ASN G 148     225.662 120.546 -42.937  1.00 82.53      GS7
ATOM  40866  OD1 ASN G 148     225.442 120.196 -41.782  1.00 82.53      GS7
ATOM  40867  ND2 ASN G 148     226.768 120.210 -43.588  1.00 82.53      GS7
ATOM  40868  C   ASN G 148     223.940 122.214 -45.935  1.00 77.05      GS7
ATOM  40869  O   ASN G 148     222.793 122.450 -45.550  1.00 77.05      GS7
ATOM  40870  N   ARG G 149     224.506 122.754 -47.013  1.00 49.92      GS7
ATOM  40871  CA  ARG G 149     223.851 123.698 -47.893  1.00 49.92      GS7
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ATOM  40872  CB  ARG G 149     224.687 123.841 -49.169  1.00 74.95      GS7
ATOM  40873  CG  ARG G 149     224.610 125.201 -49.846  1.00 74.95      GS7
ATOM  40874  CD  ARG G 149     223.172 125.621 -49.980  1.00 74.95      GS7
ATOM  40875  NE  ARG G 149     222.927 126.539 -51.083  1.00 74.95      GS7
ATOM  40876  CZ  ARG G 149     221.708 126.910 -51.462  1.00 74.95      GS7
ATOM  40877  NH1 ARG G 149     220.646 126.434 -50.819  1.00 74.95      GS7
ATOM  40878  NH2 ARG G 149     221.546 127.746 -52.481  1.00 74.95      GS7
ATOM  40879  C   ARG G 149     222.455 123.173 -48.210  1.00 49.92      GS7
ATOM  40880  O   ARG G 149     221.519 123.945 -48.409  1.00 49.92      GS7
ATOM  40881  N   ALA G 150     222.320 121.853 -48.240  1.00 56.19      GS7
ATOM  40882  CA  ALA G 150     221.038 121.222 -48.527  1.00 56.19      GS7
ATOM  40883  CB  ALA G 150     221.210 119.713 -48.584  1.00 43.81      GS7
ATOM  40884  C   ALA G 150     219.965 121.590 -47.493  1.00 56.19      GS7
ATOM  40885  O   ALA G 150     218.838 121.955 -47.850  1.00 56.19      GS7
ATOM  40886  N   TYR G 151     220.319 121.490 -46.215  1.00 51.80      GS7
ATOM  40887  CA  TYR G 151     219.398 121.814 -45.133  1.00 51.80      GS7
ATOM  40888  CB  TYR G 151     219.934 121.232 -43.837  1.00 69.60      GS7
ATOM  40889  CG  TYR G 151     220.058 119.740 -43.909  1.00 69.60      GS7
ATOM  40890  CD1 TYR G 151     220.952 119.054 -43.092  1.00 69.60      GS7
ATOM  40891  CE1 TYR G 151     221.068 117.665 -43.156  1.00 69.60      GS7
ATOM  40892  CD2 TYR G 151     219.276 119.004 -44.796  1.00 69.60      GS7
ATOM  40893  CE2 TYR G 151     219.381 117.623 -44.869  1.00 69.60      GS7
ATOM  40894  CZ  TYR G 151     220.278 116.960 -44.048  1.00 69.60      GS7
ATOM  40895  OH  TYR G 151     220.385 115.594 -44.122  1.00 69.60      GS7
ATOM  40896  C   TYR G 151     219.189 123.318 -44.995  1.00 51.80      GS7
ATOM  40897  O   TYR G 151     219.122 123.857 -43.889  1.00 51.80      GS7
ATOM  40898  N   ALA G 152     219.078 123.989 -46.135  1.00 86.69      GS7
ATOM  40899  CA  ALA G 152     218.876 125.427 -46.164  1.00 86.69      GS7
ATOM  40900  CB  ALA G 152     219.375 126.000 -47.493  1.00 90.68      GS7
ATOM  40901  C   ALA G 152     217.410 125.776 -45.966  1.00 86.69      GS7
ATOM  40902  O   ALA G 152     217.074 126.545 -45.072  1.00 86.69      GS7
ATOM  40903  N   HIS G 153     216.544 125.198 -46.797  1.00148.05      GS7
ATOM  40904  CA  HIS G 153     215.109 125.466 -46.740  1.00148.05      GS7
ATOM  40905  CB  HIS G 153     214.345 124.454 -47.596  1.00103.05      GS7
ATOM  40906  CG  HIS G 153     214.489 123.038 -47.140  1.00103.05      GS7
ATOM  40907  CD2 HIS G 153     213.583 122.035 -47.053  1.00103.05      GS7
ATOM  40908  ND1 HIS G 153     215.696 122.500 -46.755  1.00103.05      GS7
ATOM  40909  CE1 HIS G 153     215.528 121.225 -46.450  1.00103.05      GS7
ATOM  40910  NE2 HIS G 153     214.255 120.918 -46.624  1.00103.05      GS7
ATOM  40911  C   HIS G 153     214.524 125.521 -45.333  1.00148.05      GS7
ATOM  40912  O   HIS G 153     213.411 126.020 -45.140  1.00148.05      GS7
ATOM  40913  N   TYR G 154     215.260 125.004 -44.353  1.00 61.60      GS7
ATOM  40914  CA  TYR G 154     214.809 125.068 -42.964  1.00 61.60      GS7
ATOM  40915  CB  TYR G 154     215.558 124.043 -42.113  1.00 92.18      GS7
ATOM  40916  CG  TYR G 154     215.290 122.610 -42.511  1.00 92.18      GS7
ATOM  40917  CD1 TYR G 154     216.334 121.699 -42.640  1.00 92.18      GS7
ATOM  40918  CE1 TYR G 154     216.098 120.381 -43.026  1.00 92.18      GS7
ATOM  40919  CD2 TYR G 154     213.994 122.168 -42.772  1.00 92.18      GS7
ATOM  40920  CE2 TYR G 154     213.744 120.848 -43.157  1.00 92.18      GS7
ATOM  40921  CZ  TYR G 154     214.803 119.960 -43.285  1.00 92.18      GS7
ATOM  40922  OH  TYR G 154     214.574 118.663 -43.691  1.00 92.18      GS7
ATOM  40923  C   TYR G 154     215.116 126.489 -42.468  1.00 61.60      GS7
ATOM  40924  O   TYR G 154     215.231 126.741 -41.271  1.00 61.60      GS7
ATOM  40925  N   ARG G 155     215.242 127.404 -43.428  1.00137.72      GS7
ATOM  40926  CA  ARG G 155     215.552 128.814 -43.199  1.00137.72      GS7
ATOM  40927  CB  ARG G 155     214.513 129.705 -43.884  1.00201.30      GS7
ATOM  40928  CG  ARG G 155     215.017 130.315 -45.184  1.00201.30      GS7
ATOM  40929  CD  ARG G 155     216.308 131.090 -44.944  1.00201.30      GS7
ATOM  40930  NE  ARG G 155     216.901 131.598 -46.177  1.00201.30      GS7
ATOM  40931  CZ  ARG G 155     218.054 132.258 -46.232  1.00201.30      GS7
ATOM  40932  NH1 ARG G 155     218.739 132.490 -45.121  1.00201.30      GS7
ATOM  40933  NH2 ARG G 155     218.522 132.684 -47.397  1.00201.30      GS7
ATOM  40934  C   ARG G 155     215.727 129.260 -41.761  1.00137.72      GS7
ATOM  40935  O   ARG G 155     216.716 128.911 -41.123  1.00137.72      GS7
ATOM  40936  N   TRP G 156     214.777 130.044 -41.258  1.00192.46      GS7
ATOM  40937  CA  TRP G 156     214.863 130.541 -39.892  1.00192.46      GS7
ATOM  40938  CB  TRP G 156     214.729 129.362 -38.904  1.00 74.61      GS7
ATOM  40939  CG  TRP G 156     215.519 129.469 -37.625  1.00 74.61      GS7
ATOM  40940  CD2 TRP G 156     216.460 128.509 -37.126  1.00 74.61      GS7
ATOM  40941  CE2 TRP G 156     216.988 129.028 -35.923  1.00 74.61      GS7
ATOM  40942  CE3 TRP G 156     216.908 127.258 -37.581  1.00 74.61      GS7
ATOM  40943  CD1 TRP G 156     215.510 130.501 -36.727  1.00 74.61      GS7
ATOM  40944  NE1 TRP G 156     216.393 130.244 -35.703  1.00 74.61      GS7
ATOM  40945  CZ2 TRP G 156     217.947 128.339 -35.166  1.00 74.61      GS7
ATOM  40946  CZ3 TRP G 156     217.859 126.572 -36.830  1.00 74.61      GS7
ATOM  40947  CH2 TRP G 156     218.368 127.115 -35.637  1.00 74.61      GS7
ATOM  40948  C   TRP G 156     216.190 131.295 -39.739  1.00192.46      GS7
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ATOM  40949  O   TRP G 156     217.169 130.739 -39.200  1.00192.46      GS7
ATOM  40950  OXT TRP G 156     216.240 132.450 -40.210  1.00 74.61      GS7
TER   40950      TRP G 156                                               GS7
ATOM  40951  CB  MET H   1     139.970 114.640 -41.937  1.00103.91      HS8
ATOM  40952  CG  MET H   1     138.523 114.633 -41.455  1.00103.91      HS8
ATOM  40953  SD  MET H   1     137.737 112.991 -41.571  1.00103.91      HS8
ATOM  40954  CE  MET H   1     137.596 112.758 -43.366  1.00103.91      HS8
ATOM  40955  C   MET H   1     141.060 115.935 -40.114  1.00 87.51      HS8
ATOM  40956  O   MET H   1     142.137 115.516 -39.691  1.00 87.51      HS8
ATOM  40957  N   MET H   1     142.060 115.921 -42.336  1.00 87.51      HS8
ATOM  40958  CA  MET H   1     140.760 115.911 -41.600  1.00 87.51      HS8
ATOM  40959  N   LEU H   2     140.115 116.427 -39.323  1.00 42.53      HS8
ATOM  40960  CA  LEU H   2     140.309 116.474 -37.876  1.00 42.53      HS8
ATOM  40961  CB  LEU H   2     139.659 117.718 -37.261  1.00 59.02      HS8
ATOM  40962  CG  LEU H   2     139.593 119.016 -38.067  1.00 59.02      HS8
ATOM  40963  CD1 LEU H   2     138.582 118.853 -39.213  1.00 59.02      HS8
ATOM  40964  CD2 LEU H   2     139.175 120.165 -37.154  1.00 59.02      HS8
ATOM  40965  C   LEU H   2     139.675 115.235 -37.264  1.00 42.53      HS8
ATOM  40966  O   LEU H   2     138.627 114.773 -37.701  1.00 42.53      HS8
ATOM  40967  N   THR H   3     140.321 114.688 -36.254  1.00 42.18      HS8
ATOM  40968  CA  THR H   3     139.782 113.515 -35.608  1.00 42.18      HS8
ATOM  40969  CB  THR H   3     140.887 112.748 -34.858  1.00 49.85      HS8
ATOM  40970  OG1 THR H   3     141.601 113.639 -33.995  1.00 49.85      HS8
ATOM  40971  CG2 THR H   3     141.858 112.146 -35.843  1.00 49.85      HS8
ATOM  40972  C   THR H   3     138.688 113.958 -34.645  1.00 42.18      HS8
ATOM  40973  O   THR H   3     137.625 113.345 -34.593  1.00 42.18      HS8
ATOM  40974  N   ASP H   4     138.944 115.026 -33.890  1.00 44.42      HS8
ATOM  40975  CA  ASP H   4     137.954 115.539 -32.950  1.00 44.42      HS8
ATOM  40976  CB  ASP H   4     138.127 114.919 -31.568  1.00 99.05      HS8
ATOM  40977  CG  ASP H   4     137.115 115.455 -30.573  1.00 99.05      HS8
ATOM  40978  OD1 ASP H   4     135.901 115.372 -30.857  1.00 99.05      HS8
ATOM  40979  OD2 ASP H   4     137.527 115.965 -29.512  1.00 99.05      HS8
ATOM  40980  C   ASP H   4     137.989 117.056 -32.812  1.00 44.42      HS8
ATOM  40981  O   ASP H   4     138.918 117.617 -32.234  1.00 44.42      HS8
ATOM  40982  N   PRO H   5     136.946 117.733 -33.315  1.00 43.89      HS8
ATOM  40983  CD  PRO H   5     135.828 117.062 -33.984  1.00 11.26      HS8
ATOM  40984  CA  PRO H   5     136.729 119.181 -33.325  1.00 43.89      HS8
ATOM  40985  CB  PRO H   5     135.478 119.330 -34.172  1.00 11.26      HS8
ATOM  40986  CG  PRO H   5     135.454 118.072 -34.996  1.00 11.26      HS8
ATOM  40987  C   PRO H   5     136.519 119.750 -31.945  1.00 43.89      HS8
ATOM  40988  O   PRO H   5     137.162 120.723 -31.561  1.00 43.89      HS8
ATOM  40989  N   ILE H   6     135.588 119.152 -31.213  1.00 22.55      HS8
ATOM  40990  CA  ILE H   6     135.304 119.606 -29.865  1.00 22.55      HS8
ATOM  40991  CB  ILE H   6     134.502 118.568 -29.072  1.00 23.93      HS8
ATOM  40992  CG2 ILE H   6     134.410 118.989 -27.610  1.00 23.93      HS8
ATOM  40993  CG1 ILE H   6     133.117 118.384 -29.705  1.00 23.93      HS8
ATOM  40994  CD1 ILE H   6     132.319 119.643 -29.834  1.00 23.93      HS8
ATOM  40995  C   ILE H   6     136.645 119.792 -29.197  1.00 22.55      HS8
ATOM  40996  O   ILE H   6     136.861 120.737 -28.438  1.00 22.55      HS8
ATOM  40997  N   ALA H   7     137.550 118.871 -29.488  1.00 50.36      HS8
ATOM  40998  CA  ALA H   7     138.878 118.955 -28.933  1.00 50.36      HS8
ATOM  40999  CB  ALA H   7     139.654 117.716 -29.272  1.00 43.63      HS8
ATOM  41000  C   ALA H   7     139.508 120.165 -29.596  1.00 50.36      HS8
ATOM  41001  O   ALA H   7     139.861 121.152 -28.945  1.00 50.36      HS8
ATOM  41002  N   ASP H   8     139.619 120.086 -30.913  1.00 37.34      HS8
ATOM  41003  CA  ASP H   8     140.210 121.157 -31.684  1.00 37.34      HS8
ATOM  41004  CB  ASP H   8     139.821 121.040 -33.143  1.00 40.27      HS8
ATOM  41005  CG  ASP H   8     140.400 122.150 -33.956  1.00 40.27      HS8
ATOM  41006  OD1 ASP H   8     141.643 122.214 -34.041  1.00 40.27      HS8
ATOM  41007  OD2 ASP H   8     139.621 122.964 -34.484  1.00 40.27      HS8
ATOM  41008  C   ASP H   8     139.829 122.548 -31.209  1.00 37.34      HS8
ATOM  41009  O   ASP H   8     140.685 123.425 -31.107  1.00 37.34      HS8
ATOM  41010  N   MET H   9     138.543 122.758 -30.949  1.00 38.29      HS8
ATOM  41011  CA  MET H   9     138.088 124.056 -30.494  1.00 38.29      HS8
ATOM  41012  CB  MET H   9     136.570 124.106 -30.435  1.00 29.11      HS8
ATOM  41013  CG  MET H   9     136.035 125.306 -29.665  1.00 29.11      HS8
ATOM  41014  SD  MET H   9     134.250 125.591 -29.855  1.00 29.11      HS8
ATOM  41015  CE  MET H   9     133.551 124.012 -29.447  1.00 29.11      HS8
ATOM  41016  C   MET H   9     138.656 124.353 -29.123  1.00 38.29      HS8
ATOM  41017  O   MET H   9     139.349 125.352 -28.925  1.00 38.29      HS8
ATOM  41018  N   LEU H  10     138.371 123.479 -28.171  1.00 28.34      HS8
ATOM  41019  CA  LEU H  10     138.859 123.683 -26.818  1.00 28.34      HS8
ATOM  41020  CB  LEU H  10     138.674 122.403 -26.010  1.00 23.44      HS8
ATOM  41021  CG  LEU H  10     137.198 122.180 -25.683  1.00 23.44      HS8
ATOM  41022  CD1 LEU H  10     136.929 120.731 -25.360  1.00 23.44      HS8
ATOM  41023  CD2 LEU H  10     136.814 123.094 -24.528  1.00 23.44      HS8
ATOM  41024  C   LEU H  10     140.314 124.101 -26.843  1.00 28.34      HS8
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ATOM  41025  O   LEU H  10     140.770 124.894 -26.016  1.00 28.34      HS8
ATOM  41026  N   THR H  11     141.038 123.575 -27.818  1.00 33.14      HS8
ATOM  41027  CA  THR H  11     142.447 123.885 -27.957  1.00 33.14      HS8
ATOM  41028  CB  THR H  11     143.150 122.791 -28.777  1.00 36.92      HS8
ATOM  41029  OG1 THR H  11     143.133 121.568 -28.033  1.00 36.92      HS8
ATOM  41030  CG2 THR H  11     144.580 123.166 -29.058  1.00 36.92      HS8
ATOM  41031  C   THR H  11     142.663 125.259 -28.583  1.00 33.14      HS8
ATOM  41032  O   THR H  11     143.302 126.116 -27.976  1.00 33.14      HS8
ATOM  41033  N   ARG H  12     142.126 125.475 -29.783  1.00 35.34      HS8
ATOM  41034  CA  ARG H  12     142.278 126.760 -30.449  1.00 35.34      HS8
ATOM  41035  CB  ARG H  12     141.230 126.955 -31.534  1.00 30.57      HS8
ATOM  41036  CG  ARG H  12     141.273 125.953 -32.669  1.00 30.57      HS8
ATOM  41037  CD  ARG H  12     140.907 126.645 -33.992  1.00 30.57      HS8
ATOM  41038  NE  ARG H  12     140.718 125.689 -35.077  1.00 30.57      HS8
ATOM  41039  CZ  ARG H  12     140.794 125.985 -36.372  1.00 30.57      HS8
ATOM  41040  NH1 ARG H  12     141.054 127.220 -36.773  1.00 30.57      HS8
ATOM  41041  NH2 ARG H  12     140.631 125.030 -37.275  1.00 30.57      HS8
ATOM  41042  C   ARG H  12     142.104 127.852 -29.421  1.00 35.34      HS8
ATOM  41043  O   ARG H  12     142.720 128.914 -29.518  1.00 35.34      HS8
ATOM  41044  N   ILE H  13     141.258 127.579 -28.433  1.00 22.71      HS8
ATOM  41045  CA  ILE H  13     140.989 128.526 -27.360  1.00 22.71      HS8
ATOM  41046  CB  ILE H  13     139.671 128.159 -26.645  1.00  8.10      HS8
ATOM  41047  CG2 ILE H  13     139.498 128.960 -25.338  1.00  8.10      HS8
ATOM  41048  CG1 ILE H  13     138.514 128.409 -27.605  1.00  8.10      HS8
ATOM  41049  CD1 ILE H  13     137.177 127.961 -27.078  1.00  8.10      HS8
ATOM  41050  C   ILE H  13     142.139 128.531 -26.360  1.00 22.71      HS8
ATOM  41051  O   ILE H  13     142.719 129.582 -26.056  1.00 22.71      HS8
ATOM  41052  N   ARG H  14     142.469 127.343 -25.862  1.00 35.44      HS8
ATOM  41053  CA  ARG H  14     143.538 127.194 -24.891  1.00 35.44      HS8
ATOM  41054  CB  ARG H  14     143.887 125.717 -24.709  1.00 37.08      HS8
ATOM  41055  CG  ARG H  14     144.718 125.452 -23.473  1.00 37.08      HS8
ATOM  41056  CD  ARG H  14     145.406 124.086 -23.479  1.00 37.08      HS8
ATOM  41057  NE  ARG H  14     144.508 122.937 -23.393  1.00 37.08      HS8
ATOM  41058  CZ  ARG H  14     143.910 122.368 -24.437  1.00 37.08      HS8
ATOM  41059  NH1 ARG H  14     144.107 122.839 -25.663  1.00 37.08      HS8
ATOM  41060  NH2 ARG H  14     143.126 121.309 -24.256  1.00 37.08      HS8
ATOM  41061  C   ARG H  14     144.762 127.958 -25.370  1.00 35.44      HS8
ATOM  41062  O   ARG H  14     145.345 128.753 -24.636  1.00 35.44      HS8
ATOM  41063  N   ASN H  15     145.137 127.726 -26.619  1.00 46.84      HS8
ATOM  41064  CA  ASN H  15     146.295 128.389 -27.193  1.00 46.84      HS8
ATOM  41065  CB  ASN H  15     146.575 127.829 -28.591  1.00 39.48      HS8
ATOM  41066  CG  ASN H  15     146.905 126.337 -28.575  1.00 39.48      HS8
ATOM  41067  OD1 ASN H  15     147.845 125.894 -27.914  1.00 39.48      HS8
ATOM  41068  ND2 ASN H  15     146.133 125.563 -29.312  1.00 39.48      HS8
ATOM  41069  C   ASN H  15     146.092 129.900 -27.258  1.00 46.84      HS8
ATOM  41070  O   ASN H  15     146.845 130.667 -26.649  1.00 46.84      HS8
ATOM  41071  N   ALA H  16     145.065 130.317 -27.993  1.00 17.46      HS8
ATOM  41072  CA  ALA H  16     144.738 131.733 -28.158  1.00 17.46      HS8
ATOM  41073  CB  ALA H  16     143.359 131.857 -28.811  1.00  2.30      HS8
ATOM  41074  C   ALA H  16     144.785 132.528 -26.842  1.00 17.46      HS8
ATOM  41075  O   ALA H  16     145.357 133.612 -26.772  1.00 17.46      HS8
ATOM  41076  N   THR H  17     144.186 131.981 -25.797  1.00 16.15      HS8
ATOM  41077  CA  THR H  17     144.168 132.655 -24.513  1.00 16.15      HS8
ATOM  41078  CB  THR H  17     143.261 131.910 -23.546  1.00 35.17      HS8
ATOM  41079  OG1 THR H  17     143.735 130.569 -23.395  1.00 35.17      HS8
ATOM  41080  CG2 THR H  17     141.859 131.850 -24.088  1.00 35.17      HS8
ATOM  41081  C   THR H  17     145.564 132.766 -23.895  1.00 16.15      HS8
ATOM  41082  O   THR H  17     145.849 133.718 -23.167  1.00 16.15      HS8
ATOM  41083  N   ARG H  18     146.433 131.797 -24.182  1.00 29.34      HS8
ATOM  41084  CA  ARG H  18     147.786 131.802 -23.630  1.00 29.34      HS8
ATOM  41085  CB  ARG H  18     148.469 130.466 -23.880  1.00 68.04      HS8
ATOM  41086  CG  ARG H  18     148.363 129.529 -22.720  1.00 68.04      HS8
ATOM  41087  CD  ARG H  18     146.922 129.354 -22.345  1.00 68.04      HS8
ATOM  41088  NE  ARG H  18     146.784 128.759 -21.025  1.00 68.04      HS8
ATOM  41089  CZ  ARG H  18     145.620 128.550 -20.420  1.00 68.04      HS8
ATOM  41090  NH1 ARG H  18     144.484 128.889 -21.019  1.00 68.04      HS8
ATOM  41091  NH2 ARG H  18     145.593 128.002 -19.212  1.00 68.04      HS8
ATOM  41092  C   ARG H  18     148.650 132.914 -24.185  1.00 29.34      HS8
ATOM  41093  O   ARG H  18     149.630 133.327 -23.561  1.00 29.34      HS8
ATOM  41094  N   VAL H  19     148.295 133.394 -25.369  1.00 54.17      HS8
ATOM  41095  CA  VAL H  19     149.043 134.464 -26.008  1.00 54.17      HS8
ATOM  41096  CB  VAL H  19     149.398 134.084 -27.440  1.00 28.16      HS8
ATOM  41097  CG1 VAL H  19     150.663 133.261 -27.444  1.00 28.16      HS8
ATOM  41098  CG2 VAL H  19     148.275 133.262 -28.046  1.00 28.16      HS8
ATOM  41099  C   VAL H  19     148.210 135.733 -25.982  1.00 54.17      HS8
ATOM  41100  O   VAL H  19     148.580 136.756 -26.557  1.00 54.17      HS8
ATOM  41101  N   TYR H  20     147.063 135.629 -25.320  1.00 40.22      HS8
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ATOM  41102  CA  TYR H  20     146.165 136.746 -25.133  1.00 40.22       HS8
ATOM  41103  CB  TYR H  20     146.933 137.827 -24.409  1.00 28.89       HS8
ATOM  41104  CG  TYR H  20     147.356 137.319 -23.084  1.00 28.89       HS8
ATOM  41105  CD1 TYR H  20     146.465 137.288 -22.039  1.00 28.89       HS8
ATOM  41106  CE1 TYR H  20     146.789 136.704 -20.820  1.00 28.89       HS8
ATOM  41107  CD2 TYR H  20     148.606 136.763 -22.894  1.00 28.89       HS8
ATOM  41108  CE2 TYR H  20     148.957 136.168 -21.678  1.00 28.89       HS8
ATOM  41109  CZ  TYR H  20     148.032 136.136 -20.638  1.00 28.89       HS8
ATOM  41110  OH  TYR H  20     148.305 135.498 -19.433  1.00 28.89       HS8
ATOM  41111  C   TYR H  20     145.437 137.319 -26.329  1.00 40.22       HS8
ATOM  41112  O   TYR H  20     145.063 138.486 -26.321  1.00 40.22       HS8
ATOM  41113  N   LYS H  21     145.207 136.510 -27.351  1.00 36.26       HS8
ATOM  41114  CA  LYS H  21     144.485 137.007 -28.514  1.00 36.26       HS8
ATOM  41115  CB  LYS H  21     144.204 135.866 -29.497  1.00 57.32       HS8
ATOM  41116  CG  LYS H  21     145.391 134.949 -29.730  1.00 57.32       HS8
ATOM  41117  CD  LYS H  21     146.670 135.729 -30.048  1.00 57.32       HS8
ATOM  41118  CE  LYS H  21     147.128 135.526 -31.488  1.00 57.32       HS8
ATOM  41119  NZ  LYS H  21     146.137 136.001 -32.509  1.00 57.32       HS8
ATOM  41120  C   LYS H  21     143.158 137.594 -28.027  1.00 36.26       HS8
ATOM  41121  O   LYS H  21     142.704 137.262 -26.940  1.00 36.26       HS8
ATOM  41122  N   GLU H  22     142.551 138.482 -28.804  1.00 39.08       HS8
ATOM  41123  CA  GLU H  22     141.264 139.029 -28.415  1.00 39.08       HS8
ATOM  41124  CB  GLU H  22     141.094 140.439 -28.964  1.00132.18       HS8
ATOM  41125  CG  GLU H  22     139.841 141.107 -28.454  1.00132.18       HS8
ATOM  41126  CD  GLU H  22     139.518 142.388 -29.185  1.00132.18       HS8
ATOM  41127  OE1 GLU H  22     139.405 142.349 -30.430  1.00132.18       HS8
ATOM  41128  OE2 GLU H  22     139.369 143.432 -28.515  1.00132.18       HS8
ATOM  41129  C   GLU H  22     140.168 138.090 -28.983  1.00 39.08       HS8
ATOM  41130  O   GLU H  22     139.417 137.456 -28.228  1.00 39.08       HS8
ATOM  41131  N   SER H  23     140.096 137.996 -30.313  1.00 20.95       HS8
ATOM  41132  CA  SER H  23     139.128 137.142 -30.998  1.00 20.95       HS8
ATOM  41133  CB  SER H  23     138.866 137.672 -32.412  1.00 84.93       HS8
ATOM  41134  OG  SER H  23     137.894 136.890 -33.092  1.00 84.93       HS8
ATOM  41135  C   SER H  23     139.657 135.710 -31.073  1.00 20.95       HS8
ATOM  41136  O   SER H  23     140.193 135.209 -30.094  1.00 20.95       HS8
ATOM  41137  N   THR H  24     139.497 135.075 -32.237  1.00 67.19       HS8
ATOM  41138  CA  THR H  24     139.933 133.696 -32.517  1.00 67.19       HS8
ATOM  41139  CB  THR H  24     140.209 132.904 -31.232  1.00 32.72       HS8
ATOM  41140  OG1 THR H  24     141.008 131.762 -31.536  1.00 32.72       HS8
ATOM  41141  CG2 THR H  24     138.928 132.432 -30.624  1.00 32.72       HS8
ATOM  41142  C   THR H  24     138.812 132.994 -33.291  1.00 67.19       HS8
ATOM  41143  O   THR H  24     137.641 133.153 -32.958  1.00 67.19       HS8
ATOM  41144  N   ASP H  25     139.155 132.208 -34.306  1.00 33.47       HS8
ATOM  41145  CA  ASP H  25     138.127 131.555 -35.114  1.00 33.47       HS8
ATOM  41146  CB  ASP H  25     138.238 132.037 -36.555  1.00108.35       HS8
ATOM  41147  CG  ASP H  25     138.055 133.527 -36.677  1.00108.35       HS8
ATOM  41148  OD1 ASP H  25     138.669 134.269 -35.883  1.00108.35       HS8
ATOM  41149  OD2 ASP H  25     137.302 133.959 -37.571  1.00108.35       HS8
ATOM  41150  C   ASP H  25     138.116 130.036 -35.117  1.00 33.47       HS8
ATOM  41151  O   ASP H  25     139.139 129.407 -35.323  1.00 33.47       HS8
ATOM  41152  N   VAL H  26     136.950 129.441 -34.899  1.00 29.50       HS8
ATOM  41153  CA  VAL H  26     136.833 127.988 -34.915  1.00 29.50       HS8
ATOM  41154  CB  VAL H  26     136.580 127.389 -33.494  1.00  2.30       HS8
ATOM  41155  CG1 VAL H  26     136.421 128.480 -32.480  1.00  2.30       HS8
ATOM  41156  CG2 VAL H  26     135.343 126.518 -33.502  1.00  2.30       HS8
ATOM  41157  C   VAL H  26     135.701 127.586 -35.853  1.00 29.50       HS8
ATOM  41158  O   VAL H  26     134.594 128.127 -35.788  1.00 29.50       HS8
ATOM  41159  N   PRO H  27     135.980 126.629 -36.744  1.00 35.21       HS8
ATOM  41160  CD  PRO H  27     137.250 125.891 -36.705  1.00 34.72       HS8
ATOM  41161  CA  PRO H  27     135.097 126.053 -37.755  1.00 35.21       HS8
ATOM  41162  CB  PRO H  27     135.787 124.746 -38.095  1.00 34.72       HS8
ATOM  41163  CG  PRO H  27     137.199 125.096 -37.982  1.00 34.72       HS8
ATOM  41164  C   PRO H  27     133.702 125.817 -37.223  1.00 35.21       HS8
ATOM  41165  O   PRO H  27     133.491 124.899 -36.442  1.00 35.21       HS8
ATOM  41166  N   ALA H  28     132.752 126.633 -37.668  1.00 36.17       HS8
ATOM  41167  CA  ALA H  28     131.367 126.529 -37.228  1.00 36.17       HS8
ATOM  41168  CB  ALA H  28     130.497 127.470 -38.061  1.00 98.48       HS8
ATOM  41169  C   ALA H  28     130.775 125.113 -37.246  1.00 36.17       HS8
ATOM  41170  O   ALA H  28     130.943 124.355 -38.211  1.00 36.17       HS8
ATOM  41171  N   SER H  29     130.087 124.777 -36.155  1.00 29.20       HS8
ATOM  41172  CA  SER H  29     129.412 123.493 -35.982  1.00 29.20       HS8
ATOM  41173  CB  SER H  29     130.388 122.396 -35.559  1.00 74.05       HS8
ATOM  41174  OG  SER H  29     130.355 122.201 -34.153  1.00 74.05       HS8
ATOM  41175  C   SER H  29     128.403 123.692 -34.863  1.00 29.20       HS8
ATOM  41176  O   SER H  29     128.768 124.206 -33.786  1.00 29.20       HS8
ATOM  41177  N   ARG H  30     127.151 123.290 -35.114  1.00 31.36       HS8
ATOM  41178  CA  ARG H  30     126.080 123.410 -34.116  1.00 31.36       HS8
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ATOM  41179  CB  ARG H  30     124.960 122.412 -34.415  1.00155.49      HS8
ATOM  41180  CG  ARG H  30     124.049 122.782 -35.579  1.00155.49      HS8
ATOM  41181  CD  ARG H  30     123.135 123.953 -35.236  1.00155.49      HS8
ATOM  41182  NE  ARG H  30     122.117 124.170 -36.262  1.00155.49      HS8
ATOM  41183  CZ  ARG H  30     121.238 125.168 -36.248  1.00155.49      HS8
ATOM  41184  NH1 ARG H  30     121.247 126.052 -35.259  1.00155.49      HS8
ATOM  41185  NH2 ARG H  30     120.350 125.282 -37.225  1.00155.49      HS8
ATOM  41186  C   ARG H  30     126.636 123.132 -32.716  1.00 31.36      HS8
ATOM  41187  O   ARG H  30     126.716 124.025 -31.875  1.00 31.36      HS8
ATOM  41188  N   PHE H  31     127.030 121.875 -32.503  1.00 17.14      HS8
ATOM  41189  CA  PHE H  31     127.592 121.401 -31.247  1.00 17.14      HS8
ATOM  41190  CB  PHE H  31     128.250 120.044 -31.469  1.00 40.17      HS8
ATOM  41191  CG  PHE H  31     128.559 119.292 -30.203  1.00 40.17      HS8
ATOM  41192  CD1 PHE H  31     128.498 119.912 -28.962  1.00 40.17      HS8
ATOM  41193  CD2 PHE H  31     128.931 117.962 -30.258  1.00 40.17      HS8
ATOM  41194  CE1 PHE H  31     128.804 119.211 -27.798  1.00 40.17      HS8
ATOM  41195  CE2 PHE H  31     129.235 117.266 -29.108  1.00 40.17      HS8
ATOM  41196  CZ  PHE H  31     129.172 117.888 -27.876  1.00 40.17      HS8
ATOM  41197  C   PHE H  31     128.616 122.379 -30.706  1.00 17.14      HS8
ATOM  41198  O   PHE H  31     128.528 122.805 -29.552  1.00 17.14      HS8
ATOM  41199  N   LYS H  32     129.595 122.734 -31.526  1.00 38.53      HS8
ATOM  41200  CA  LYS H  32     130.606 123.669 -31.059  1.00 38.53      HS8
ATOM  41201  CB  LYS H  32     131.502 124.112 -32.221  1.00 57.32      HS8
ATOM  41202  CG  LYS H  32     132.580 123.104 -32.601  1.00 57.32      HS8
ATOM  41203  CD  LYS H  32     133.231 123.459 -33.939  1.00 57.32      HS8
ATOM  41204  CE  LYS H  32     134.137 122.333 -34.465  1.00 57.32      HS8
ATOM  41205  NZ  LYS H  32     134.318 122.325 -35.959  1.00 57.32      HS8
ATOM  41206  C   LYS H  32     129.890 124.868 -30.440  1.00 38.53      HS8
ATOM  41207  O   LYS H  32     130.180 125.291 -29.311  1.00 38.53      HS8
ATOM  41208  N   GLU H  33     128.924 125.385 -31.187  1.00 32.70      HS8
ATOM  41209  CA  GLU H  33     128.147 126.531 -30.753  1.00 32.70      HS8
ATOM  41210  CB  GLU H  33     127.129 126.869 -31.845  1.00 68.51      HS8
ATOM  41211  CG  GLU H  33     126.358 128.150 -31.651  1.00 68.51      HS8
ATOM  41212  CD  GLU H  33     125.797 128.684 -32.958  1.00 68.51      HS8
ATOM  41213  OE1 GLU H  33     125.434 127.868 -33.834  1.00 68.51      HS8
ATOM  41214  OE2 GLU H  33     125.710 129.923 -33.103  1.00 68.51      HS8
ATOM  41215  C   GLU H  33     127.465 126.239 -29.414  1.00 32.70      HS8
ATOM  41216  O   GLU H  33     127.591 127.015 -28.461  1.00 32.70      HS8
ATOM  41217  N   GLU H  34     126.768 125.105 -29.339  1.00 28.01      HS8
ATOM  41218  CA  GLU H  34     126.076 124.711 -28.116  1.00 28.01      HS8
ATOM  41219  CB  GLU H  34     125.476 123.313 -28.267  1.00122.39      HS8
ATOM  41220  CG  GLU H  34     124.132 123.304 -28.980  1.00122.39      HS8
ATOM  41221  CD  GLU H  34     123.039 124.030 -28.199  1.00122.39      HS8
ATOM  41222  OE1 GLU H  34     121.931 124.192 -28.750  1.00122.39      HS8
ATOM  41223  OE2 GLU H  34     123.278 124.434 -27.039  1.00122.39      HS8
ATOM  41224  C   GLU H  34     126.993 124.757 -26.899  1.00 28.01      HS8
ATOM  41225  O   GLU H  34     126.583 125.145 -25.803  1.00 28.01      HS8
ATOM  41226  N   ILE H  35     128.245 124.375 -27.093  1.00 21.68      HS8
ATOM  41227  CA  ILE H  35     129.195 124.395 -25.993  1.00 21.68      HS8
ATOM  41228  CB  ILE H  35     130.477 123.714 -26.397  1.00 12.96      HS8
ATOM  41229  CG2 ILE H  35     131.436 123.675 -25.220  1.00 12.96      HS8
ATOM  41230  CG1 ILE H  35     130.141 122.321 -26.910  1.00 12.96      HS8
ATOM  41231  CD1 ILE H  35     131.317 121.599 -27.460  1.00 12.96      HS8
ATOM  41232  C   ILE H  35     129.501 125.823 -25.610  1.00 21.68      HS8
ATOM  41233  O   ILE H  35     129.423 126.207 -24.440  1.00 21.68      HS8
ATOM  41234  N   LEU H  36     129.844 126.603 -26.625  1.00 37.45      HS8
ATOM  41235  CA  LEU H  36     130.182 127.995 -26.428  1.00 37.45      HS8
ATOM  41236  CB  LEU H  36     130.349 128.688 -27.784  1.00 25.85      HS8
ATOM  41237  CG  LEU H  36     131.597 128.271 -28.574  1.00 25.85      HS8
ATOM  41238  CD1 LEU H  36     131.583 128.844 -29.985  1.00 25.85      HS8
ATOM  41239  CD2 LEU H  36     132.824 128.750 -27.814  1.00 25.85      HS8
ATOM  41240  C   LEU H  36     129.119 128.680 -25.595  1.00 37.45      HS8
ATOM  41241  O   LEU H  36     129.454 129.448 -24.678  1.00 37.45      HS8
ATOM  41242  N   ARG H  37     127.848 128.382 -25.895  1.00 45.72      HS8
ATOM  41243  CA  ARG H  37     126.742 128.991 -25.161  1.00 45.72      HS8
ATOM  41244  CB  ARG H  37     125.407 128.307 -25.486  1.00103.59      HS8
ATOM  41245  CG  ARG H  37     124.493 129.123 -26.412  1.00103.59      HS8
ATOM  41246  CD  ARG H  37     123.026 128.648 -26.368  1.00103.59      HS8
ATOM  41247  NE  ARG H  37     122.192 129.288 -27.396  1.00103.59      HS8
ATOM  41248  CZ  ARG H  37     120.910 128.994 -27.632  1.00103.59      HS8
ATOM  41249  NH1 ARG H  37     120.294 128.066 -26.909  1.00103.59      HS8
ATOM  41250  NH2 ARG H  37     120.244 129.609 -28.607  1.00103.59      HS8
ATOM  41251  C   ARG H  37     127.030 128.910 -23.663  1.00 45.72      HS8
ATOM  41252  O   ARG H  37     126.894 129.905 -22.939  1.00 45.72      HS8
ATOM  41253  N   ILE H  38     127.450 127.728 -23.212  1.00 25.49      HS8
ATOM  41254  CA  ILE H  38     127.776 127.510 -21.811  1.00 25.49      HS8
ATOM  41255  CB  ILE H  38     128.117 126.046 -21.511  1.00 48.61      HS8
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ATOM  41256  CG2 ILE H  38     128.661 125.919 -20.114  1.00 48.61      HS8
ATOM  41257  CG1 ILE H  38     126.875 125.181 -21.640  1.00 48.61      HS8
ATOM  41258  CD1 ILE H  38     126.326 125.138 -23.039  1.00 48.61      HS8
ATOM  41259  C   ILE H  38     129.000 128.316 -21.457  1.00 25.49      HS8
ATOM  41260  O   ILE H  38     129.074 128.914 -20.383  1.00 25.49      HS8
ATOM  41261  N   LEU H  39     129.977 128.316 -22.351  1.00 40.18      HS8
ATOM  41262  CA  LEU H  39     131.186 129.056 -22.062  1.00 40.18      HS8
ATOM  41263  CB  LEU H  39     132.154 129.007 -23.252  1.00 26.15      HS8
ATOM  41264  CG  LEU H  39     133.096 127.800 -23.299  1.00 26.15      HS8
ATOM  41265  CD1 LEU H  39     133.701 127.548 -21.915  1.00 26.15      HS8
ATOM  41266  CD2 LEU H  39     132.318 126.589 -23.750  1.00 26.15      HS8
ATOM  41267  C   LEU H  39     130.840 130.495 -21.702  1.00 40.18      HS8
ATOM  41268  O   LEU H  39     131.237 131.000 -20.638  1.00 40.18      HS8
ATOM  41269  N   ALA H  40     130.079 131.143 -22.582  1.00 34.77      HS8
ATOM  41270  CA  ALA H  40     129.673 132.525 -22.365  1.00 34.77      HS8
ATOM  41271  CB  ALA H  40     128.857 133.006 -23.546  1.00 82.73      HS8
ATOM  41272  C   ALA H  40     128.867 132.668 -21.067  1.00 34.77      HS8
ATOM  41273  O   ALA H  40     129.206 133.461 -20.189  1.00 34.77      HS8
ATOM  41274  N   ARG H  41     127.794 131.899 -20.953  1.00 26.68      HS8
ATOM  41275  CA  ARG H  41     126.971 131.944 -19.759  1.00 26.68      HS8
ATOM  41276  CB  ARG H  41     125.920 130.846 -19.821  1.00 67.17      HS8
ATOM  41277  CG  ARG H  41     125.059 130.711 -18.581  1.00 67.17      HS8
ATOM  41278  CD  ARG H  41     124.242 129.455 -18.714  1.00 67.17      HS8
ATOM  41279  NE  ARG H  41     123.629 129.391 -20.037  1.00 67.17      HS8
ATOM  41280  CZ  ARG H  41     123.287 128.261 -20.649  1.00 67.17      HS8
ATOM  41281  NH1 ARG H  41     123.502 127.092 -20.054  1.00 67.17      HS8
ATOM  41282  NH2 ARG H  41     122.732 128.297 -21.858  1.00 67.17      HS8
ATOM  41283  C   ARG H  41     127.814 131.771 -18.500  1.00 26.68      HS8
ATOM  41284  O   ARG H  41     127.701 132.539 -17.551  1.00 26.68      HS8
ATOM  41285  N   GLU H  42     128.668 130.763 -18.477  1.00 31.99      HS8
ATOM  41286  CA  GLU H  42     129.468 130.566 -17.291  1.00 31.99      HS8
ATOM  41287  CB  GLU H  42     130.148 129.206 -17.338  1.00 89.90      HS8
ATOM  41288  CG  GLU H  42     129.187 128.071 -17.046  1.00 89.90      HS8
ATOM  41289  CD  GLU H  42     128.362 128.324 -15.797  1.00 89.90      HS8
ATOM  41290  OE1 GLU H  42     128.948 128.654 -14.737  1.00 89.90      HS8
ATOM  41291  OE2 GLU H  42     127.121 128.189 -15.880  1.00 89.90      HS8
ATOM  41292  C   GLU H  42     130.482 131.678 -17.115  1.00 31.99      HS8
ATOM  41293  O   GLU H  42     131.267 131.684 -16.161  1.00 31.99      HS8
ATOM  41294  N   GLY H  43     130.460 132.624 -18.044  1.00 72.16      HS8
ATOM  41295  CA  GLY H  43     131.363 133.754 -17.966  1.00 72.16      HS8
ATOM  41296  C   GLY H  43     132.821 133.436 -18.200  1.00 72.16      HS8
ATOM  41297  O   GLY H  43     133.693 134.043 -17.577  1.00 72.16      HS8
ATOM  41298  N   PHE H  44     133.097 132.488 -19.089  1.00 31.68      HS8
ATOM  41299  CA  PHE H  44     134.476 132.139 -19.388  1.00 31.68      HS8
ATOM  41300  CB  PHE H  44     134.624 130.637 -19.629  1.00 28.10      HS8
ATOM  41301  CG  PHE H  44     134.681 129.837 -18.367  1.00 28.10      HS8
ATOM  41302  CD1 PHE H  44     135.551 130.197 -17.348  1.00 28.10      HS8
ATOM  41303  CD2 PHE H  44     133.881 128.724 -18.194  1.00 28.10      HS8
ATOM  41304  CE1 PHE H  44     135.626 129.455 -16.172  1.00 28.10      HS8
ATOM  41305  CE2 PHE H  44     133.951 127.977 -17.019  1.00 28.10      HS8
ATOM  41306  CZ  PHE H  44     134.827 128.347 -16.010  1.00 28.10      HS8
ATOM  41307  C   PHE H  44     134.921 132.919 -20.598  1.00 31.68      HS8
ATOM  41308  O   PHE H  44     136.108 133.056 -20.865  1.00 31.68      HS8
ATOM  41309  N   ILE H  45     133.962 133.430 -21.347  1.00 31.43      HS8
ATOM  41310  CA  ILE H  45     134.329 134.225 -22.489  1.00 31.43      HS8
ATOM  41311  CB  ILE H  45     134.364 133.384 -23.761  1.00 11.47      HS8
ATOM  41312  CG2 ILE H  45     135.356 132.271 -23.604  1.00 11.47      HS8
ATOM  41313  CG1 ILE H  45     133.016 132.777 -24.041  1.00 11.47      HS8
ATOM  41314  CD1 ILE H  45     133.086 131.842 -25.220  1.00 11.47      HS8
ATOM  41315  C   ILE H  45     133.439 135.447 -22.682  1.00 31.43      HS8
ATOM  41316  O   ILE H  45     132.304 135.508 -22.206  1.00 31.43      HS8
ATOM  41317  N   LYS H  46     133.977 136.452 -23.351  1.00 69.39      HS8
ATOM  41318  CA  LYS H  46     133.192 137.641 -23.574  1.00 69.39      HS8
ATOM  41319  CB  LYS H  46     134.046 138.746 -24.207  1.00 57.95      HS8
ATOM  41320  CG  LYS H  46     134.919 139.529 -23.218  1.00 57.95      HS8
ATOM  41321  CD  LYS H  46     135.413 140.835 -23.846  1.00 57.95      HS8
ATOM  41322  CE  LYS H  46     136.246 141.681 -22.886  1.00 57.95      HS8
ATOM  41323  NZ  LYS H  46     137.599 141.102 -22.599  1.00 57.95      HS8
ATOM  41324  C   LYS H  46     132.019 137.284 -24.472  1.00 69.39      HS8
ATOM  41325  O   LYS H  46     131.120 138.092 -24.669  1.00 69.39      HS8
ATOM  41326  N   GLY H  47     132.019 136.066 -25.002  1.00 27.49      HS8
ATOM  41327  CA  GLY H  47     130.935 135.653 -25.879  1.00 27.49      HS8
ATOM  41328  C   GLY H  47     131.462 135.223 -27.235  1.00 27.49      HS8
ATOM  41329  O   GLY H  47     132.658 134.960 -27.365  1.00 27.49      HS8
ATOM  41330  N   TYR H  48     130.609 135.176 -28.254  1.00 22.15      HS8
ATOM  41331  CA  TYR H  48     131.085 134.727 -29.561  1.00 22.15      HS8
ATOM  41332  CB  TYR H  48     131.330 133.237 -29.493  1.00 38.10      HS8
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ATOM  41333  CG  TYR H  48     130.031 132.502 -29.691  1.00 38.10       HS8
ATOM  41334  CD1 TYR H  48     129.622 132.129 -30.974  1.00 38.10       HS8
ATOM  41335  CE1 TYR H  48     128.381 131.588 -31.196  1.00 38.10       HS8
ATOM  41336  CD2 TYR H  48     129.152 132.300 -28.628  1.00 38.10       HS8
ATOM  41337  CE2 TYR H  48     127.907 131.758 -28.839  1.00 38.10       HS8
ATOM  41338  CZ  TYR H  48     127.526 131.406 -30.131  1.00 38.10       HS8
ATOM  41339  OH  TYR H  48     126.282 130.882 -30.392  1.00 38.10       HS8
ATOM  41340  C   TYR H  48     130.036 134.958 -30.645  1.00 22.15       HS8
ATOM  41341  O   TYR H  48     128.847 134.860 -30.355  1.00 22.15       HS8
ATOM  41342  N   GLU H  49     130.458 135.197 -31.890  1.00 28.23       HS8
ATOM  41343  CA  GLU H  49     129.512 135.420 -32.990  1.00 28.23       HS8
ATOM  41344  CB  GLU H  49     129.529 136.889 -33.420  1.00176.86       HS8
ATOM  41345  CG  GLU H  49     130.847 137.350 -34.009  1.00176.86       HS8
ATOM  41346  CD  GLU H  49     130.781 138.768 -34.541  1.00176.86       HS8
ATOM  41347  OE1 GLU H  49     129.915 139.037 -35.399  1.00176.86       HS8
ATOM  41348  OE2 GLU H  49     131.595 139.612 -34.106  1.00176.86       HS8
ATOM  41349  C   GLU H  49     129.768 134.532 -34.213  1.00 28.23       HS8
ATOM  41350  O   GLU H  49     130.870 134.023 -34.406  1.00 28.23       HS8
ATOM  41351  N   ARG H  50     128.737 134.339 -35.032  1.00 59.62       HS8
ATOM  41352  CA  ARG H  50     128.856 133.525 -36.238  1.00 59.62       HS8
ATOM  41353  CB  ARG H  50     127.498 133.011 -36.687  1.00 65.73       HS8
ATOM  41354  CG  ARG H  50     126.752 132.170 -35.691  1.00 65.73       HS8
ATOM  41355  CD  ARG H  50     125.326 131.995 -36.174  1.00 65.73       HS8
ATOM  41356  NE  ARG H  50     124.838 130.635 -35.991  1.00 65.73       HS8
ATOM  41357  CZ  ARG H  50     123.705 130.182 -36.517  1.00 65.73       HS8
ATOM  41358  NH1 ARG H  50     122.952 130.989 -37.256  1.00 65.73       HS8
ATOM  41359  NH2 ARG H  50     123.327 128.924 -36.310  1.00 65.73       HS8
ATOM  41360  C   ARG H  50     129.394 134.411 -37.342  1.00 59.62       HS8
ATOM  41361  O   ARG H  50     128.738 135.374 -37.738  1.00 59.62       HS8
ATOM  41362  N   VAL H  51     130.569 134.086 -37.859  1.00 44.21       HS8
ATOM  41363  CA  VAL H  51     131.161 134.890 -38.918  1.00 44.21       HS8
ATOM  41364  CB  VAL H  51     132.446 135.514 -38.440  1.00 48.93       HS8
ATOM  41365  CG1 VAL H  51     132.162 136.467 -37.307  1.00 48.93       HS8
ATOM  41366  CG2 VAL H  51     133.382 134.420 -37.971  1.00 48.93       HS8
ATOM  41367  C   VAL H  51     131.486 134.039 -40.125  1.00 44.21       HS8
ATOM  41368  O   VAL H  51     131.393 132.817 -40.066  1.00 44.21       HS8
ATOM  41369  N   ASP H  52     131.857 134.687 -41.225  1.00 56.99       HS8
ATOM  41370  CA  ASP H  52     132.240 133.975 -42.439  1.00 56.99       HS8
ATOM  41371  CB  ASP H  52     131.347 134.352 -43.618  1.00 85.92       HS8
ATOM  41372  CG  ASP H  52     130.203 133.381 -43.807  1.00 85.92       HS8
ATOM  41373  OD1 ASP H  52     129.321 133.317 -42.927  1.00 85.92       HS8
ATOM  41374  OD2 ASP H  52     130.188 132.672 -44.834  1.00 85.92       HS8
ATOM  41375  C   ASP H  52     133.687 134.301 -42.771  1.00 56.99       HS8
ATOM  41376  O   ASP H  52     134.131 135.442 -42.638  1.00 56.99       HS8
ATOM  41377  N   VAL H  53     134.432 133.286 -43.184  1.00 49.19       HS8
ATOM  41378  CA  VAL H  53     135.823 133.474 -43.533  1.00 49.19       HS8
ATOM  41379  CB  VAL H  53     136.731 133.060 -42.399  1.00 40.20       HS8
ATOM  41380  CG1 VAL H  53     138.171 133.175 -42.840  1.00 40.20       HS8
ATOM  41381  CG2 VAL H  53     136.475 133.942 -41.202  1.00 40.20       HS8
ATOM  41382  C   VAL H  53     136.145 132.630 -44.738  1.00 49.19       HS8
ATOM  41383  O   VAL H  53     135.863 131.435 -44.752  1.00 49.19       HS8
ATOM  41384  N   ASP H  54     136.741 133.257 -45.746  1.00 59.91       HS8
ATOM  41385  CA  ASP H  54     137.090 132.564 -46.977  1.00 59.91       HS8
ATOM  41386  CB  ASP H  54     138.060 131.410 -46.686  1.00201.30       HS8
ATOM  41387  CG  ASP H  54     138.541 130.713 -47.952  1.00201.30       HS8
ATOM  41388  OD1 ASP H  54     139.142 131.388 -48.816  1.00201.30       HS8
ATOM  41389  OD2 ASP H  54     138.322 129.487 -48.081  1.00201.30       HS8
ATOM  41390  C   ASP H  54     135.796 132.031 -47.577  1.00 59.91       HS8
ATOM  41391  O   ASP H  54     135.809 131.177 -48.468  1.00 59.91       HS8
ATOM  41392  N   GLY H  55     134.674 132.538 -47.076  1.00 38.97       HS8
ATOM  41393  CA  GLY H  55     133.387 132.106 -47.588  1.00 38.97       HS8
ATOM  41394  C   GLY H  55     132.816 130.924 -46.834  1.00 38.97       HS8
ATOM  41395  O   GLY H  55     131.793 130.343 -47.218  1.00 38.97       HS8
ATOM  41396  N   LYS H  56     133.489 130.560 -45.751  1.00 43.68       HS8
ATOM  41397  CA  LYS H  56     133.047 129.454 -44.927  1.00 43.68       HS8
ATOM  41398  CB  LYS H  56     134.061 128.317 -44.986  1.00 52.54       HS8
ATOM  41399  CG  LYS H  56     134.015 127.522 -46.280  1.00 52.54       HS8
ATOM  41400  CD  LYS H  56     134.364 128.372 -47.492  1.00 52.54       HS8
ATOM  41401  CE  LYS H  56     134.380 127.539 -48.760  1.00 52.54       HS8
ATOM  41402  NZ  LYS H  56     135.445 126.495 -48.734  1.00 52.54       HS8
ATOM  41403  C   LYS H  56     132.808 129.896 -43.486  1.00 43.68       HS8
ATOM  41404  O   LYS H  56     133.522 130.736 -42.940  1.00 43.68       HS8
ATOM  41405  N   PRO H  57     131.781 129.321 -42.858  1.00 29.13       HS8
ATOM  41406  CD  PRO H  57     130.983 128.268 -43.510  1.00 11.29       HS8
ATOM  41407  CA  PRO H  57     131.310 129.546 -41.488  1.00 29.13       HS8
ATOM  41408  CB  PRO H  57     130.062 128.678 -41.417  1.00 11.29       HS8
ATOM  41409  CG  PRO H  57     130.421 127.538 -42.321  1.00 11.29       HS8
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ATOM  41410  C   PRO H  57     132.265 129.238 -40.351  1.00 29.13      HS8
ATOM  41411  O   PRO H  57     132.837 128.157 -40.278  1.00 29.13      HS8
ATOM  41412  N   TYR H  58     132.408 130.205 -39.458  1.00 14.50      HS8
ATOM  41413  CA  TYR H  58     133.257 130.065 -38.292  1.00 14.50      HS8
ATOM  41414  CB  TYR H  58     134.566 130.823 -38.468  1.00 57.10      HS8
ATOM  41415  CG  TYR H  58     135.496 130.062 -39.348  1.00 57.10      HS8
ATOM  41416  CD1 TYR H  58     135.315 130.056 -40.721  1.00 57.10      HS8
ATOM  41417  CE1 TYR H  58     136.070 129.248 -41.534  1.00 57.10      HS8
ATOM  41418  CD2 TYR H  58     136.474 129.239 -38.805  1.00 57.10      HS8
ATOM  41419  CE2 TYR H  58     137.235 128.421 -39.610  1.00 57.10      HS8
ATOM  41420  CZ  TYR H  58     137.026 128.428 -40.978  1.00 57.10      HS8
ATOM  41421  OH  TYR H  58     137.754 127.604 -41.804  1.00 57.10      HS8
ATOM  41422  C   TYR H  58     132.558 130.563 -37.061  1.00 14.50      HS8
ATOM  41423  O   TYR H  58     131.357 130.818 -37.086  1.00 14.50      HS8
ATOM  41424  N   LEU H  59     133.310 130.688 -35.977  1.00 32.62      HS8
ATOM  41425  CA  LEU H  59     132.748 131.178 -34.733  1.00 32.62      HS8
ATOM  41426  CB  LEU H  59     132.353 130.015 -33.817  1.00 29.71      HS8
ATOM  41427  CG  LEU H  59     131.183 129.099 -34.186  1.00 29.71      HS8
ATOM  41428  CD1 LEU H  59     130.973 128.091 -33.089  1.00 29.71      HS8
ATOM  41429  CD2 LEU H  59     129.930 129.898 -34.350  1.00 29.71      HS8
ATOM  41430  C   LEU H  59     133.761 132.045 -34.018  1.00 32.62      HS8
ATOM  41431  O   LEU H  59     134.646 131.524 -33.344  1.00 32.62      HS8
ATOM  41432  N   ARG H  60     133.671 133.360 -34.170  1.00 21.06      HS8
ATOM  41433  CA  ARG H  60     134.620 134.180 -33.450  1.00 21.06      HS8
ATOM  41434  CB  ARG H  60     134.533 135.647 -33.844  1.00 54.81      HS8
ATOM  41435  CG  ARG H  60     135.639 136.042 -34.774  1.00 54.81      HS8
ATOM  41436  CD  ARG H  60     135.645 137.516 -35.035  1.00 54.81      HS8
ATOM  41437  NE  ARG H  60     136.481 137.822 -36.189  1.00 54.81      HS8
ATOM  41438  CZ  ARG H  60     136.198 137.453 -37.435  1.00 54.81      HS8
ATOM  41439  NH1 ARG H  60     135.099 136.765 -37.692  1.00 54.81      HS8
ATOM  41440  NH2 ARG H  60     137.013 137.774 -38.427  1.00 54.81      HS8
ATOM  41441  C   ARG H  60     134.280 133.997 -31.987  1.00 21.06      HS8
ATOM  41442  O   ARG H  60     133.118 134.045 -31.586  1.00 21.06      HS8
ATOM  41443  N   VAL H  61     135.295 133.732 -31.190  1.00 29.87      HS8
ATOM  41444  CA  VAL H  61     135.079 133.525 -29.783  1.00 29.87      HS8
ATOM  41445  CB  VAL H  61     135.612 132.140 -29.367  1.00  2.30      HS8
ATOM  41446  CG1 VAL H  61     135.581 131.975 -27.859  1.00  2.30      HS8
ATOM  41447  CG2 VAL H  61     134.778 131.073 -30.012  1.00  2.30      HS8
ATOM  41448  C   VAL H  61     135.851 134.635 -29.122  1.00 29.87      HS8
ATOM  41449  O   VAL H  61     137.048 134.776 -29.339  1.00 29.87      HS8
ATOM  41450  N   TYR H  62     135.161 135.450 -28.340  1.00 30.12      HS8
ATOM  41451  CA  TYR H  62     135.826 136.551 -27.667  1.00 30.12      HS8
ATOM  41452  CB  TYR H  62     134.853 137.709 -27.546  1.00 30.24      HS8
ATOM  41453  CG  TYR H  62     134.538 138.264 -28.902  1.00 30.24      HS8
ATOM  41454  CD1 TYR H  62     135.352 139.224 -29.478  1.00 30.24      HS8
ATOM  41455  CE1 TYR H  62     135.134 139.670 -30.754  1.00 30.24      HS8
ATOM  41456  CD2 TYR H  62     133.488 137.765 -29.642  1.00 30.24      HS8
ATOM  41457  CE2 TYR H  62     133.259 138.204 -30.921  1.00 30.24      HS8
ATOM  41458  CZ  TYR H  62     134.088 139.159 -31.480  1.00 30.24      HS8
ATOM  41459  OH  TYR H  62     133.877 139.592 -32.778  1.00 30.24      HS8
ATOM  41460  C   TYR H  62     136.386 136.133 -26.326  1.00 30.12      HS8
ATOM  41461  O   TYR H  62     135.668 135.668 -25.448  1.00 30.12      HS8
ATOM  41462  N   LEU H  63     137.686 136.317 -26.173  1.00 28.83      HS8
ATOM  41463  CA  LEU H  63     138.356 135.897 -24.960  1.00 28.83      HS8
ATOM  41464  CB  LEU H  63     139.758 135.425 -25.312  1.00 29.32      HS8
ATOM  41465  CG  LEU H  63     139.733 134.077 -26.026  1.00 29.32      HS8
ATOM  41466  CD1 LEU H  63     138.726 134.052 -27.151  1.00 29.32      HS8
ATOM  41467  CD2 LEU H  63     141.103 133.809 -26.534  1.00 29.32      HS8
ATOM  41468  C   LEU H  63     138.408 136.902 -23.836  1.00 28.83      HS8
ATOM  41469  O   LEU H  63     138.534 138.101 -24.060  1.00 28.83      HS8
ATOM  41470  N   LYS H  64     138.327 136.383 -22.618  1.00 30.43      HS8
ATOM  41471  CA  LYS H  64     138.326 137.197 -21.409  1.00 30.43      HS8
ATOM  41472  CB  LYS H  64     137.056 136.905 -20.602  1.00 62.10      HS8
ATOM  41473  CG  LYS H  64     136.885 137.734 -19.340  1.00 62.10      HS8
ATOM  41474  CD  LYS H  64     135.717 137.231 -18.492  1.00 62.10      HS8
ATOM  41475  CE  LYS H  64     134.435 137.097 -19.301  1.00 62.10      HS8
ATOM  41476  NZ  LYS H  64     133.289 136.662 -18.454  1.00 62.10      HS8
ATOM  41477  C   LYS H  64     139.550 136.914 -20.556  1.00 30.43      HS8
ATOM  41478  O   LYS H  64     139.968 135.761 -20.401  1.00 30.43      HS8
ATOM  41479  N   TYR H  65     140.115 137.972 -19.993  1.00 26.02      HS8
ATOM  41480  CA  TYR H  65     141.303 137.839 -19.169  1.00 26.02      HS8
ATOM  41481  CB  TYR H  65     142.542 138.362 -19.909  1.00 31.05      HS8
ATOM  41482  CG  TYR H  65     142.709 137.731 -21.259  1.00 31.05      HS8
ATOM  41483  CD1 TYR H  65     141.956 138.150 -22.341  1.00 31.05      HS8
ATOM  41484  CE1 TYR H  65     142.020 137.496 -23.564  1.00 31.05      HS8
ATOM  41485  CD2 TYR H  65     143.538 136.649 -21.432  1.00 31.05      HS8
ATOM  41486  CE2 TYR H  65     143.615 135.984 -22.653  1.00 31.05      HS8
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ATOM  41487  CZ  TYR H  65     142.850 136.410 -23.717  1.00 31.05      HS8
ATOM  41488  OH  TYR H  65     142.901 135.727 -24.915  1.00 31.05      HS8
ATOM  41489  C   TYR H  65     141.112 138.628 -17.910  1.00 26.02      HS8
ATOM  41490  O   TYR H  65     140.103 139.317 -17.749  1.00 26.02      HS8
ATOM  41491  N   GLY H  66     142.088 138.520 -17.017  1.00 44.27      HS8
ATOM  41492  CA  GLY H  66     142.026 139.253 -15.773  1.00 44.27      HS8
ATOM  41493  C   GLY H  66     142.605 140.622 -16.037  1.00 44.27      HS8
ATOM  41494  O   GLY H  66     142.679 141.039 -17.189  1.00 44.27      HS8
ATOM  41495  N   PRO H  67     143.007 141.358 -14.998  1.00 54.10      HS8
ATOM  41496  CD  PRO H  67     142.611 141.240 -13.583  1.00 20.09      HS8
ATOM  41497  CA  PRO H  67     143.572 142.678 -15.250  1.00 54.10      HS8
ATOM  41498  CB  PRO H  67     143.088 143.469 -14.049  1.00 20.09      HS8
ATOM  41499  CG  PRO H  67     143.228 142.487 -12.969  1.00 20.09      HS8
ATOM  41500  C   PRO H  67     145.094 142.613 -15.315  1.00 54.10      HS8
ATOM  41501  O   PRO H  67     145.697 141.592 -14.961  1.00 54.10      HS8
ATOM  41502  N   ARG H  68     145.705 143.700 -15.780  1.00 34.13      HS8
ATOM  41503  CA  ARG H  68     147.155 143.786 -15.847  1.00 34.13      HS8
ATOM  41504  CB  ARG H  68     147.576 145.186 -16.274  1.00 58.97      HS8
ATOM  41505  CG  ARG H  68     149.070 145.365 -16.495  1.00 58.97      HS8
ATOM  41506  CD  ARG H  68     149.329 146.752 -17.066  1.00 58.97      HS8
ATOM  41507  NE  ARG H  68     150.563 146.872 -17.842  1.00 58.97      HS8
ATOM  41508  CZ  ARG H  68     151.787 146.711 -17.349  1.00 58.97      HS8
ATOM  41509  NH1 ARG H  68     151.964 146.409 -16.069  1.00 58.97      HS8
ATOM  41510  NH2 ARG H  68     152.839 146.885 -18.134  1.00 58.97      HS8
ATOM  41511  C   ARG H  68     147.638 143.519 -14.430  1.00 34.13      HS8
ATOM  41512  O   ARG H  68     146.865 143.680 -13.483  1.00 34.13      HS8
ATOM  41513  N   ARG H  69     148.892 143.106 -14.270  1.00 34.71      HS8
ATOM  41514  CA  ARG H  69     149.411 142.832 -12.933  1.00 34.71      HS8
ATOM  41515  CB  ARG H  69     149.677 141.342 -12.755  1.00 92.49      HS8
ATOM  41516  CG  ARG H  69     148.415 140.509 -12.686  1.00 92.49      HS8
ATOM  41517  CD  ARG H  69     148.767 139.091 -12.346  1.00 92.49      HS8
ATOM  41518  NE  ARG H  69     149.804 138.603 -13.245  1.00 92.49      HS8
ATOM  41519  CZ  ARG H  69     150.434 137.445 -13.099  1.00 92.49      HS8
ATOM  41520  NH1 ARG H  69     150.130 136.651 -12.084  1.00 92.49      HS8
ATOM  41521  NH2 ARG H  69     151.370 137.084 -13.965  1.00 92.49      HS8
ATOM  41522  C   ARG H  69     150.658 143.629 -12.583  1.00 34.71      HS8
ATOM  41523  O   ARG H  69     151.176 144.380 -13.407  1.00 34.71      HS8
ATOM  41524  N   GLN H  70     151.136 143.475 -11.354  1.00 48.61      HS8
ATOM  41525  CA  GLN H  70     152.305 144.219 -10.908  1.00 48.61      HS8
ATOM  41526  CB  GLN H  70     152.070 144.762  -9.497  1.00196.41      HS8
ATOM  41527  CG  GLN H  70     150.941 145.775  -9.428  1.00196.41      HS8
ATOM  41528  CD  GLN H  70     151.078 146.864 -10.481  1.00196.41      HS8
ATOM  41529  OE1 GLN H  70     152.088 147.565 -10.537  1.00196.41      HS8
ATOM  41530  NE2 GLN H  70     150.058 147.008 -11.323  1.00196.41      HS8
ATOM  41531  C   GLN H  70     153.614 143.446 -10.951  1.00 48.61      HS8
ATOM  41532  O   GLN H  70     153.644 142.229 -11.182  1.00 48.61      HS8
ATOM  41533  N   GLY H  71     154.699 144.185 -10.731  1.00 89.26      HS8
ATOM  41534  CA  GLY H  71     156.029 143.611 -10.750  1.00 89.26      HS8
ATOM  41535  C   GLY H  71     156.403 143.146 -12.139  1.00 89.26      HS8
ATOM  41536  O   GLY H  71     156.031 143.761 -13.140  1.00 89.26      HS8
ATOM  41537  N   PRO H  72     157.168 142.058 -12.227  1.00 58.11      HS8
ATOM  41538  CD  PRO H  72     157.864 141.403 -11.110  1.00 35.34      HS8
ATOM  41539  CA  PRO H  72     157.599 141.494 -13.504  1.00 58.11      HS8
ATOM  41540  CB  PRO H  72     158.828 140.701 -13.114  1.00 35.34      HS8
ATOM  41541  CG  PRO H  72     158.446 140.188 -11.776  1.00 35.34      HS8
ATOM  41542  C   PRO H  72     156.488 140.614 -14.048  1.00 58.11      HS8
ATOM  41543  O   PRO H  72     155.766 139.963 -13.284  1.00 58.11      HS8
ATOM  41544  N   ASP H  73     156.357 140.599 -15.367  1.00 57.96      HS8
ATOM  41545  CA  ASP H  73     155.317 139.822 -16.040  1.00 57.96      HS8
ATOM  41546  CB  ASP H  73     155.411 138.331 -15.693  1.00117.10      HS8
ATOM  41547  CG  ASP H  73     154.461 137.476 -16.529  1.00117.10      HS8
ATOM  41548  OD1 ASP H  73     154.392 136.250 -16.295  1.00117.10      HS8
ATOM  41549  OD2 ASP H  73     153.788 138.032 -17.425  1.00117.10      HS8
ATOM  41550  C   ASP H  73     153.925 140.326 -15.682  1.00 57.96      HS8
ATOM  41551  O   ASP H  73     153.201 139.697 -14.912  1.00 57.96      HS8
ATOM  41552  N   PRO H  74     153.541 141.481 -16.236  1.00 51.31      HS8
ATOM  41553  CD  PRO H  74     154.310 142.324 -17.164  1.00 47.18      HS8
ATOM  41554  CA  PRO H  74     152.234 142.076 -15.987  1.00 51.31      HS8
ATOM  41555  CB  PRO H  74     152.369 143.445 -16.623  1.00 47.18      HS8
ATOM  41556  CG  PRO H  74     153.227 143.154 -17.798  1.00 47.18      HS8
ATOM  41557  C   PRO H  74     151.135 141.253 -16.646  1.00 51.31      HS8
ATOM  41558  O   PRO H  74     149.949 141.531 -16.467  1.00 51.31      HS8
ATOM  41559  N   ARG H  75     151.524 140.240 -17.413  1.00 39.01      HS8
ATOM  41560  CA  ARG H  75     150.526 139.423 -18.074  1.00 39.01      HS8
ATOM  41561  CB  ARG H  75     151.134 138.157 -18.654  1.00 70.14      HS8
ATOM  41562  CG  ARG H  75     151.541 138.313 -20.098  1.00 70.14      HS8
ATOM  41563  CD  ARG H  75     151.968 136.983 -20.661  1.00 70.14      HS8
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ATOM  41564  NE  ARG H  75     152.930 136.331 -19.783  1.00 70.14      HS8
ATOM  41565  CZ  ARG H  75     153.419 135.118 -19.993  1.00 70.14      HS8
ATOM  41566  NH1 ARG H  75     153.037 134.419 -21.054  1.00 70.14      HS8
ATOM  41567  NH2 ARG H  75     154.285 134.606 -19.136  1.00 70.14      HS8
ATOM  41568  C   ARG H  75     149.405 139.069 -17.125  1.00 39.01      HS8
ATOM  41569  O   ARG H  75     149.629 138.596 -16.015  1.00 39.01      HS8
ATOM  41570  N   PRO H  76     148.172 139.302 -17.571  1.00 48.85      HS8
ATOM  41571  CD  PRO H  76     147.963 139.820 -18.930  1.00 64.01      HS8
ATOM  41572  CA  PRO H  76     146.888 139.080 -16.907  1.00 48.85      HS8
ATOM  41573  CB  PRO H  76     145.888 139.604 -17.927  1.00 64.01      HS8
ATOM  41574  CG  PRO H  76     146.703 140.556 -18.768  1.00 64.01      HS8
ATOM  41575  C   PRO H  76     146.600 137.624 -16.564  1.00 48.85      HS8
ATOM  41576  O   PRO H  76     146.939 136.721 -17.331  1.00 48.85      HS8
ATOM  41577  N   GLU H  77     145.962 137.409 -15.416  1.00 30.50      HS8
ATOM  41578  CA  GLU H  77     145.588 136.065 -14.989  1.00 30.50      HS8
ATOM  41579  CB  GLU H  77     144.980 136.104 -13.590  1.00 72.01      HS8
ATOM  41580  CG  GLU H  77     144.554 134.756 -13.057  1.00 72.01      HS8
ATOM  41581  CD  GLU H  77     144.145 134.830 -11.600  1.00 72.01      HS8
ATOM  41582  OE1 GLU H  77     144.866 135.486 -10.813  1.00 72.01      HS8
ATOM  41583  OE2 GLU H  77     143.113 134.229 -11.237  1.00 72.01      HS8
ATOM  41584  C   GLU H  77     144.549 135.570 -15.983  1.00 30.50      HS8
ATOM  41585  O   GLU H  77     143.738 136.352 -16.472  1.00 30.50      HS8
ATOM  41586  N   GLN H  78     144.577 134.285 -16.306  1.00 44.54      HS8
ATOM  41587  CA  GLN H  78     143.609 133.755 -17.257  1.00 44.54      HS8
ATOM  41588  CB  GLN H  78     144.030 132.378 -17.757  1.00 64.52      HS8
ATOM  41589  CG  GLN H  78     145.208 132.378 -18.693  1.00 64.52      HS8
ATOM  41590  CD  GLN H  78     144.918 133.118 -19.972  1.00 64.52      HS8
ATOM  41591  OE1 GLN H  78     143.770 133.187 -20.419  1.00 64.52      HS8
ATOM  41592  NE2 GLN H  78     145.962 133.664 -20.583  1.00 64.52      HS8
ATOM  41593  C   GLN H  78     142.262 133.627 -16.591  1.00 44.54      HS8
ATOM  41594  O   GLN H  78     142.159 133.541 -15.369  1.00 44.54      HS8
ATOM  41595  N   VAL H  79     141.222 133.623 -17.400  1.00 42.77      HS8
ATOM  41596  CA  VAL H  79     139.889 133.467 -16.868  1.00 42.77      HS8
ATOM  41597  CB  VAL H  79     138.880 134.249 -17.688  1.00 25.34      HS8
ATOM  41598  CG1 VAL H  79     137.468 133.985 -17.163  1.00 25.34      HS8
ATOM  41599  CG2 VAL H  79     139.243 135.722 -17.649  1.00 25.34      HS8
ATOM  41600  C   VAL H  79     139.616 131.991 -17.024  1.00 42.77      HS8
ATOM  41601  O   VAL H  79     138.857 131.393 -16.257  1.00 42.77      HS8
ATOM  41602  N   ILE H  80     140.256 131.427 -18.045  1.00 24.11      HS8
ATOM  41603  CA  ILE H  80     140.164 130.018 -18.380  1.00 24.11      HS8
ATOM  41604  CB  ILE H  80     139.951 129.828 -19.883  1.00 19.60      HS8
ATOM  41605  CG2 ILE H  80     140.237 128.403 -20.280  1.00 19.60      HS8
ATOM  41606  CG1 ILE H  80     138.526 130.184 -20.260  1.00 19.60      HS8
ATOM  41607  CD1 ILE H  80     138.188 129.806 -21.687  1.00 19.60      HS8
ATOM  41608  C   ILE H  80     141.502 129.407 -18.004  1.00 24.11      HS8
ATOM  41609  O   ILE H  80     142.408 129.330 -18.829  1.00 24.11      HS8
ATOM  41610  N   HIS H  81     141.643 128.992 -16.756  1.00 49.88      HS8
ATOM  41611  CA  HIS H  81     142.895 128.408 -16.327  1.00 49.88      HS8
ATOM  41612  CB  HIS H  81     142.917 128.283 -14.821  1.00 59.96      HS8
ATOM  41613  CG  HIS H  81     142.588 129.551 -14.120  1.00 59.96      HS8
ATOM  41614  CD2 HIS H  81     143.303 130.305 -13.254  1.00 59.96      HS8
ATOM  41615  ND1 HIS H  81     141.389 130.200 -14.298  1.00 59.96      HS8
ATOM  41616  CE1 HIS H  81     141.378 131.304 -13.573  1.00 59.96      HS8
ATOM  41617  NE2 HIS H  81     142.528 131.391 -12.929  1.00 59.96      HS8
ATOM  41618  C   HIS H  81     143.062 127.033 -16.941  1.00 49.88      HS8
ATOM  41619  O   HIS H  81     144.095 126.716 -17.527  1.00 49.88      HS8
ATOM  41620  N   HIS H  82     142.027 126.219 -16.799  1.00 28.90      HS8
ATOM  41621  CA  HIS H  82     142.036 124.866 -17.303  1.00 28.90      HS8
ATOM  41622  CB  HIS H  82     141.538 123.940 -16.215  1.00 54.35      HS8
ATOM  41623  CG  HIS H  82     141.848 122.502 -16.452  1.00 54.35      HS8
ATOM  41624  CD2 HIS H  82     141.043 121.454 -16.746  1.00 54.35      HS8
ATOM  41625  ND1 HIS H  82     143.126 121.997 -16.370  1.00 54.35      HS8
ATOM  41626  CE1 HIS H  82     143.095 120.697 -16.601  1.00 54.35      HS8
ATOM  41627  NE2 HIS H  82     141.842 120.342 -16.832  1.00 54.35      HS8
ATOM  41628  C   HIS H  82     141.106 124.811 -18.489  1.00 28.90      HS8
ATOM  41629  O   HIS H  82     140.577 125.825 -18.905  1.00 28.90      HS8
ATOM  41630  N   ILE H  83     140.915 123.616 -19.023  1.00 25.14      HS8
ATOM  41631  CA  ILE H  83     140.050 123.342 -20.168  1.00 25.14      HS8
ATOM  41632  CB  ILE H  83     139.953 124.539 -21.186  1.00  7.56      HS8
ATOM  41633  CG2 ILE H  83     141.204 124.699 -21.984  1.00  7.56      HS8
ATOM  41634  CG1 ILE H  83     138.877 124.247 -22.216  1.00  7.56      HS8
ATOM  41635  CD1 ILE H  83     138.485 125.432 -23.033  1.00  7.56      HS8
ATOM  41636  C   ILE H  83     140.704 122.132 -20.807  1.00 25.14      HS8
ATOM  41637  O   ILE H  83     141.834 122.209 -21.301  1.00 25.14      HS8
ATOM  41638  N   ARG H  84     140.017 120.996 -20.744  1.00 34.84      HS8
ATOM  41639  CA  ARG H  84     140.564 119.766 -21.292  1.00 34.84      HS8
ATOM  41640  CB  ARG H  84     141.624 119.233 -20.329  1.00115.74      HS8
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ATOM  41641  CG  ARG H  84     142.482 118.131 -20.896  1.00115.74      HS8
ATOM  41642  CD  ARG H  84     142.083 116.789 -20.318  1.00115.74      HS8
ATOM  41643  NE  ARG H  84     142.231 116.764 -18.866  1.00115.74      HS8
ATOM  41644  CZ  ARG H  84     142.070 115.678 -18.120  1.00115.74      HS8
ATOM  41645  NH1 ARG H  84     141.754 114.521 -18.687  1.00115.74      HS8
ATOM  41646  NH2 ARG H  84     142.231 115.751 -16.809  1.00115.74      HS8
ATOM  41647  C   ARG H  84     139.492 118.711 -21.553  1.00 34.84      HS8
ATOM  41648  O   ARG H  84     138.660 118.460 -20.695  1.00 34.84      HS8
ATOM  41649  N   ARG H  85     139.516 118.110 -22.744  1.00 40.50      HS8
ATOM  41650  CA  ARG H  85     138.552 117.079 -23.130  1.00 40.50      HS8
ATOM  41651  CB  ARG H  85     138.782 116.593 -24.553  1.00 37.40      HS8
ATOM  41652  CG  ARG H  85     138.205 117.456 -25.611  1.00 37.40      HS8
ATOM  41653  CD  ARG H  85     137.463 116.618 -26.615  1.00 37.40      HS8
ATOM  41654  NE  ARG H  85     136.184 116.166 -26.086  1.00 37.40      HS8
ATOM  41655  CZ  ARG H  85     135.248 115.563 -26.813  1.00 37.40      HS8
ATOM  41656  NH1 ARG H  85     135.442 115.330 -28.107  1.00 37.40      HS8
ATOM  41657  NH2 ARG H  85     134.110 115.197 -26.242  1.00 37.40      HS8
ATOM  41658  C   ARG H  85     138.617 115.847 -22.266  1.00 40.50      HS8
ATOM  41659  O   ARG H  85     139.690 115.449 -21.808  1.00 40.50      HS8
ATOM  41660  N   ILE H  86     137.462 115.228 -22.063  1.00 25.12      HS8
ATOM  41661  CA  ILE H  86     137.405 114.010 -21.292  1.00 25.12      HS8
ATOM  41662  CB  ILE H  86     136.422 114.102 -20.107  1.00 15.69      HS8
ATOM  41663  CG2 ILE H  86     136.151 112.712 -19.533  1.00 15.69      HS8
ATOM  41664  CG1 ILE H  86     136.997 115.024 -19.029  1.00 15.69      HS8
ATOM  41665  CD1 ILE H  86     136.515 116.466 -19.134  1.00 15.69      HS8
ATOM  41666  C   ILE H  86     136.934 112.998 -22.303  1.00 25.12      HS8
ATOM  41667  O   ILE H  86     137.734 112.223 -22.826  1.00 25.12      HS8
ATOM  41668  N   SER H  87     135.649 112.993 -22.609  1.00 14.10      HS8
ATOM  41669  CA  SER H  87     135.215 112.041 -23.598  1.00 14.10      HS8
ATOM  41670  CB  SER H  87     133.732 112.204 -23.885  1.00 31.18      HS8
ATOM  41671  OG  SER H  87     133.332 111.264 -24.861  1.00 31.18      HS8
ATOM  41672  C   SER H  87     136.043 112.387 -24.839  1.00 14.10      HS8
ATOM  41673  O   SER H  87     136.291 113.563 -25.106  1.00 14.10      HS8
ATOM  41674  N   LYS H  88     136.522 111.369 -25.551  1.00 15.95      HS8
ATOM  41675  CA  LYS H  88     137.309 111.561 -26.773  1.00 15.95      HS8
ATOM  41676  CB  LYS H  88     138.818 111.531 -26.521  1.00 40.45      HS8
ATOM  41677  CG  LYS H  88     139.331 112.283 -25.325  1.00 40.45      HS8
ATOM  41678  CD  LYS H  88     140.759 112.757 -25.601  1.00 40.45      HS8
ATOM  41679  CE  LYS H  88     141.663 112.710 -24.380  1.00 40.45      HS8
ATOM  41680  NZ  LYS H  88     142.130 111.317 -24.150  1.00 40.45      HS8
ATOM  41681  C   LYS H  88     137.000 110.385 -27.677  1.00 15.95      HS8
ATOM  41682  O   LYS H  88     136.649 109.301 -27.199  1.00 15.95      HS8
ATOM  41683  N   PRO H  89     137.129 110.571 -28.996  1.00 13.07      HS8
ATOM  41684  CD  PRO H  89     137.646 111.728 -29.735  1.00 17.43      HS8
ATOM  41685  CA  PRO H  89     136.847 109.448 -29.896  1.00 13.07      HS8
ATOM  41686  CB  PRO H  89     137.178 110.011 -31.270  1.00 17.43      HS8
ATOM  41687  CG  PRO H  89     138.190 111.078 -30.963  1.00 17.43      HS8
ATOM  41688  C   PRO H  89     137.773 108.333 -29.469  1.00 13.07      HS8
ATOM  41689  O   PRO H  89     138.856 108.596 -28.951  1.00 13.07      HS8
ATOM  41690  N   GLY H  90     137.370 107.088 -29.659  1.00 39.24      HS8
ATOM  41691  CA  GLY H  90     138.245 106.027 -29.199  1.00 39.24      HS8
ATOM  41692  C   GLY H  90     138.571 106.265 -27.728  1.00 39.24      HS8
ATOM  41693  O   GLY H  90     139.730 106.379 -27.335  1.00 39.24      HS8
ATOM  41694  N   ARG H  91     137.504 106.383 -26.942  1.00 20.53      HS8
ATOM  41695  CA  ARG H  91     137.510 106.576 -25.492  1.00 20.53      HS8
ATOM  41696  CB  ARG H  91     138.846 107.069 -24.969  1.00 48.14      HS8
ATOM  41697  CG  ARG H  91     139.412 106.183 -23.868  1.00 48.14      HS8
ATOM  41698  CD  ARG H  91     138.534 106.091 -22.625  1.00 48.14      HS8
ATOM  41699  NE  ARG H  91     139.379 105.900 -21.443  1.00 48.14      HS8
ATOM  41700  CZ  ARG H  91     138.960 105.449 -20.266  1.00 48.14      HS8
ATOM  41701  NH1 ARG H  91     137.686 105.127 -20.084  1.00 48.14      HS8
ATOM  41702  NH2 ARG H  91     139.822 105.312 -19.270  1.00 48.14      HS8
ATOM  41703  C   ARG H  91     136.425 107.538 -25.077  1.00 20.53      HS8
ATOM  41704  O   ARG H  91     136.689 108.584 -24.488  1.00 20.53      HS8
ATOM  41705  N   ARG H  92     135.197 107.160 -25.412  1.00 33.80      HS8
ATOM  41706  CA  ARG H  92     134.010 107.919 -25.083  1.00 33.80      HS8
ATOM  41707  CB  ARG H  92     132.829 107.333 -25.833  1.00 42.38      HS8
ATOM  41708  CG  ARG H  92     132.279 108.245 -26.891  1.00 42.38      HS8
ATOM  41709  CD  ARG H  92     133.290 108.563 -27.966  1.00 42.38      HS8
ATOM  41710  NE  ARG H  92     133.050 109.895 -28.520  1.00 42.38      HS8
ATOM  41711  CZ  ARG H  92     133.250 110.219 -29.792  1.00 42.38      HS8
ATOM  41712  NH1 ARG H  92     133.686 109.316 -30.658  1.00 42.38      HS8
ATOM  41713  NH2 ARG H  92     133.028 111.453 -30.198  1.00 42.38      HS8
ATOM  41714  C   ARG H  92     133.786 107.799 -23.584  1.00 33.80      HS8
ATOM  41715  O   ARG H  92     133.989 106.732 -23.010  1.00 33.80      HS8
ATOM  41716  N   VAL H  93     133.368 108.883 -22.944  1.00 38.58      HS8
ATOM  41717  CA  VAL H  93     133.148 108.858 -21.503  1.00 38.58      HS8
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ATOM  41718  CB  VAL H  93     134.165 109.749 -20.808  1.00  9.36      HS8
ATOM  41719  CG1 VAL H  93     133.726 110.053 -19.402  1.00  9.36      HS8
ATOM  41720  CG2 VAL H  93     135.462 109.056 -20.773  1.00  9.36      HS8
ATOM  41721  C   VAL H  93     131.748 109.254 -21.041  1.00 38.58      HS8
ATOM  41722  O   VAL H  93     131.409 110.427 -20.977  1.00 38.58      HS8
ATOM  41723  N   TYR H  94     130.937 108.272 -20.692  1.00 21.67      HS8
ATOM  41724  CA  TYR H  94     129.595 108.569 -20.247  1.00 21.67      HS8
ATOM  41725  CB  TYR H  94     128.617 107.683 -20.988  1.00 25.20      HS8
ATOM  41726  CG  TYR H  94     128.896 107.542 -22.457  1.00 25.20      HS8
ATOM  41727  CD1 TYR H  94     129.530 106.417 -22.958  1.00 25.20      HS8
ATOM  41728  CE1 TYR H  94     129.696 106.232 -24.325  1.00 25.20      HS8
ATOM  41729  CD2 TYR H  94     128.445 108.491 -23.356  1.00 25.20      HS8
ATOM  41730  CE2 TYR H  94     128.605 108.319 -24.738  1.00 25.20      HS8
ATOM  41731  CZ  TYR H  94     129.227 107.184 -25.216  1.00 25.20      HS8
ATOM  41732  OH  TYR H  94     129.338 106.998 -26.582  1.00 25.20      HS8
ATOM  41733  C   TYR H  94     129.461 108.349 -18.739  1.00 21.67      HS8
ATOM  41734  O   TYR H  94     129.956 107.353 -18.209  1.00 21.67      HS8
ATOM  41735  N   VAL H  95     128.785 109.268 -18.055  1.00 25.81      HS8
ATOM  41736  CA  VAL H  95     128.615 109.168 -16.613  1.00 25.81      HS8
ATOM  41737  CB  VAL H  95     129.242 110.336 -15.911  1.00 13.29      HS8
ATOM  41738  CG1 VAL H  95     130.711 110.343 -16.155  1.00 13.29      HS8
ATOM  41739  CG2 VAL H  95     128.645 111.612 -16.434  1.00 13.29      HS8
ATOM  41740  C   VAL H  95     127.168 109.159 -16.188  1.00 25.81      HS8
ATOM  41741  O   VAL H  95     126.303 109.707 -16.876  1.00 25.81      HS8
ATOM  41742  N   GLY H  96     126.909 108.536 -15.042  1.00 48.40      HS8
ATOM  41743  CA  GLY H  96     125.558 108.491 -14.513  1.00 48.40      HS8
ATOM  41744  C   GLY H  96     125.346 109.814 -13.814  1.00 48.40      HS8
ATOM  41745  O   GLY H  96     126.310 110.485 -13.449  1.00 48.40      HS8
ATOM  41746  N   VAL H  97     124.102 110.208 -13.609  1.00 60.87      HS8
ATOM  41747  CA  VAL H  97     123.881 111.490 -12.973  1.00 60.87      HS8
ATOM  41748  CB  VAL H  97     122.384 111.848 -12.903  1.00 32.33      HS8
ATOM  41749  CG1 VAL H  97     121.664 110.904 -11.982  1.00 32.33      HS8
ATOM  41750  CG2 VAL H  97     122.231 113.287 -12.459  1.00 32.33      HS8
ATOM  41751  C   VAL H  97     124.473 111.495 -11.582  1.00 60.87      HS8
ATOM  41752  O   VAL H  97     124.680 112.551 -10.990  1.00 60.87      HS8
ATOM  41753  N   LYS H  98     124.761 110.310 -11.065  1.00 40.44      HS8
ATOM  41754  CA  LYS H  98     125.334 110.218  -9.736  1.00 40.44      HS8
ATOM  41755  CB  LYS H  98     124.758 109.005  -9.010  1.00163.20      HS8
ATOM  41756  CG  LYS H  98     123.244 109.029  -8.966  1.00163.20      HS8
ATOM  41757  CD  LYS H  98     122.671 107.883  -8.166  1.00163.20      HS8
ATOM  41758  CE  LYS H  98     121.155 107.928  -8.210  1.00163.20      HS8
ATOM  41759  NZ  LYS H  98     120.640 109.263  -7.789  1.00163.20      HS8
ATOM  41760  C   LYS H  98     126.845 110.113  -9.848  1.00 40.44      HS8
ATOM  41761  O   LYS H  98     127.557 110.031  -8.841  1.00 40.44      HS8
ATOM  41762  N   GLU H  99     127.323 110.132 -11.091  1.00 52.90      HS8
ATOM  41763  CA  GLU H  99     128.745 110.039 -11.389  1.00 52.90      HS8
ATOM  41764  CB  GLU H  99     129.025 108.775 -12.200  1.00103.98      HS8
ATOM  41765  CG  GLU H  99     128.741 107.483 -11.450  1.00103.98      HS8
ATOM  41766  CD  GLU H  99     128.995 106.259 -12.303  1.00103.98      HS8
ATOM  41767  OE1 GLU H  99     128.266 106.071 -13.302  1.00103.98      HS8
ATOM  41768  OE2 GLU H  99     129.928 105.491 -11.981  1.00103.98      HS8
ATOM  41769  C   GLU H  99     129.215 111.265 -12.160  1.00 52.90      HS8
ATOM  41770  O   GLU H  99     130.171 111.210 -12.931  1.00 52.90      HS8
ATOM  41771  N   ILE H 100     128.524 112.375 -11.955  1.00 35.00      HS8
ATOM  41772  CA  ILE H 100     128.893 113.616 -12.609  1.00 35.00      HS8
ATOM  41773  CB  ILE H 100     127.681 114.505 -12.863  1.00 54.68      HS8
ATOM  41774  CG2 ILE H 100     128.081 115.662 -13.757  1.00 54.68      HS8
ATOM  41775  CG1 ILE H 100     126.582 113.691 -13.541  1.00 54.68      HS8
ATOM  41776  CD1 ILE H 100     125.296 114.451 -13.740  1.00 54.68      HS8
ATOM  41777  C   ILE H 100     129.846 114.326 -11.664  1.00 35.00      HS8
ATOM  41778  O   ILE H 100     129.446 114.848 -10.627  1.00 35.00      HS8
ATOM  41779  N   PRO H 101     131.130 114.344 -12.021  1.00 45.15      HS8
ATOM  41780  CD  PRO H 101     131.564 113.968 -13.372  1.00 47.81      HS8
ATOM  41781  CA  PRO H 101     132.238 114.954 -11.283  1.00 45.15      HS8
ATOM  41782  CB  PRO H 101     133.380 114.912 -12.293  1.00 47.81      HS8
ATOM  41783  CG  PRO H 101     132.654 114.956 -13.610  1.00 47.81      HS8
ATOM  41784  C   PRO H 101     132.016 116.355 -10.728  1.00 45.15      HS8
ATOM  41785  O   PRO H 101     131.320 117.174 -11.320  1.00 45.15      HS8
ATOM  41786  N   ARG H 102     132.628 116.613  -9.579  1.00 50.95      HS8
ATOM  41787  CA  ARG H 102     132.533 117.910  -8.936  1.00 50.95      HS8
ATOM  41788  CB  ARG H 102     132.387 117.736  -7.429  1.00131.50      HS8
ATOM  41789  CG  ARG H 102     131.701 118.892  -6.737  1.00131.50      HS8
ATOM  41790  CD  ARG H 102     130.597 118.362  -5.851  1.00131.50      HS8
ATOM  41791  NE  ARG H 102     129.593 117.634  -6.625  1.00131.50      HS8
ATOM  41792  CZ  ARG H 102     128.683 116.817  -6.097  1.00131.50      HS8
ATOM  41793  NH1 ARG H 102     128.650 116.618  -4.786  1.00131.50      HS8
ATOM  41794  NH2 ARG H 102     127.801 116.201  -6.875  1.00131.50      HS8
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ATOM  41795  C   ARG H 102     133.836 118.630  -9.269  1.00 50.95      HS8
ATOM  41796  O   ARG H 102     134.843 118.493  -8.568  1.00 50.95      HS8
ATOM  41797  N   VAL H 103     133.803 119.399 -10.351  1.00 34.46      HS8
ATOM  41798  CA  VAL H 103     134.970 120.122 -10.833  1.00 34.46      HS8
ATOM  41799  CB  VAL H 103     134.673 120.782 -12.167  1.00 30.39      HS8
ATOM  41800  CG1 VAL H 103     135.958 121.346 -12.756  1.00 30.39      HS8
ATOM  41801  CG2 VAL H 103     134.009 119.781 -13.098  1.00 30.39      HS8
ATOM  41802  C   VAL H 103     135.528 121.195  -9.927  1.00 34.46      HS8
ATOM  41803  O   VAL H 103     134.809 122.098  -9.515  1.00 34.46      HS8
ATOM  41804  N   ARG H 104     136.826 121.097  -9.656  1.00 41.07      HS8
ATOM  41805  CA  ARG H 104     137.543 122.059  -8.823  1.00 41.07      HS8
ATOM  41806  CB  ARG H 104     137.895 123.300  -9.647  1.00 57.94      HS8
ATOM  41807  CG  ARG H 104     139.372 123.450 -10.021  1.00 57.94      HS8
ATOM  41808  CD  ARG H 104     140.190 123.837  -8.805  1.00 57.94      HS8
ATOM  41809  NE  ARG H 104     141.512 124.373  -9.134  1.00 57.94      HS8
ATOM  41810  CZ  ARG H 104     142.539 123.648  -9.571  1.00 57.94      HS8
ATOM  41811  NH1 ARG H 104     142.415 122.335  -9.747  1.00 57.94      HS8
ATOM  41812  NH2 ARG H 104     143.705 124.237  -9.818  1.00 57.94      HS8
ATOM  41813  C   ARG H 104     136.719 122.469  -7.626  1.00 41.07      HS8
ATOM  41814  O   ARG H 104     136.514 123.660  -7.399  1.00 41.07      HS8
ATOM  41815  N   ARG H 105     136.249 121.477  -6.868  1.00 52.27      HS8
ATOM  41816  CA  ARG H 105     135.416 121.715  -5.686  1.00 52.27      HS8
ATOM  41817  CB  ARG H 105     136.256 122.259  -4.528  1.00 86.41      HS8
ATOM  41818  CG  ARG H 105     136.194 121.419  -3.266  1.00 86.41      HS8
ATOM  41819  CD  ARG H 105     136.740 120.013  -3.518  1.00 86.41      HS8
ATOM  41820  NE  ARG H 105     137.159 119.333  -2.289  1.00 86.41      HS8
ATOM  41821  CZ  ARG H 105     136.344 118.688  -1.460  1.00 86.41      HS8
ATOM  41822  NH1 ARG H 105     135.042 118.620  -1.717  1.00 86.41      HS8
ATOM  41823  NH2 ARG H 105     136.834 118.110  -0.368  1.00 86.41      HS8
ATOM  41824  C   ARG H 105     134.284 122.700  -5.989  1.00 52.27      HS8
ATOM  41825  O   ARG H 105     133.802 123.394  -5.096  1.00 52.27      HS8
ATOM  41826  N   GLY H 106     133.880 122.770  -7.255  1.00 44.83      HS8
ATOM  41827  CA  GLY H 106     132.802 123.658  -7.639  1.00 44.83      HS8
ATOM  41828  C   GLY H 106     133.209 124.976  -8.262  1.00 44.83      HS8
ATOM  41829  O   GLY H 106     132.405 125.612  -8.945  1.00 44.83      HS8
ATOM  41830  N   LEU H 107     134.440 125.414  -8.043  1.00 32.23      HS8
ATOM  41831  CA  LEU H 107     134.839 126.678  -8.633  1.00 32.23      HS8
ATOM  41832  CB  LEU H 107     136.109 127.195  -7.981  1.00 29.93      HS8
ATOM  41833  CG  LEU H 107     136.155 127.054  -6.465  1.00 29.93      HS8
ATOM  41834  CD1 LEU H 107     137.132 128.090  -5.878  1.00 29.93      HS8
ATOM  41835  CD2 LEU H 107     134.752 127.244  -5.897  1.00 29.93      HS8
ATOM  41836  C   LEU H 107     135.060 126.504 -10.129  1.00 32.23      HS8
ATOM  41837  O   LEU H 107     135.355 127.471 -10.837  1.00 32.23      HS8
ATOM  41838  N   GLY H 108     134.925 125.263 -10.598  1.00 39.21      HS8
ATOM  41839  CA  GLY H 108     135.096 124.955 -12.007  1.00 39.21      HS8
ATOM  41840  C   GLY H 108     133.878 124.204 -12.492  1.00 39.21      HS8
ATOM  41841  O   GLY H 108     133.121 123.683 -11.679  1.00 39.21      HS8
ATOM  41842  N   ILE H 109     133.675 124.135 -13.802  1.00 19.26      HS8
ATOM  41843  CA  ILE H 109     132.509 123.434 -14.336  1.00 19.26      HS8
ATOM  41844  CB  ILE H 109     131.711 124.329 -15.263  1.00 37.59      HS8
ATOM  41845  CG2 ILE H 109     131.598 125.687 -14.659  1.00 37.59      HS8
ATOM  41846  CG1 ILE H 109     132.433 124.474 -16.597  1.00 37.59      HS8
ATOM  41847  CD1 ILE H 109     131.586 125.068 -17.682  1.00 37.59      HS8
ATOM  41848  C   ILE H 109     132.868 122.189 -15.129  1.00 19.26      HS8
ATOM  41849  O   ILE H 109     134.025 121.779 -15.185  1.00 19.26      HS8
ATOM  41850  N   ALA H 110     131.862 121.599 -15.759  1.00 30.19      HS8
ATOM  41851  CA  ALA H 110     132.075 120.419 -16.570  1.00 30.19      HS8
ATOM  41852  CB  ALA H 110     132.125 119.217 -15.702  1.00 11.63      HS8
ATOM  41853  C   ALA H 110     130.930 120.311 -17.548  1.00 30.19      HS8
ATOM  41854  O   ALA H 110     129.809 120.009 -17.176  1.00 30.19      HS8
ATOM  41855  N   ILE H 111     131.204 120.561 -18.809  1.00 29.95      HS8
ATOM  41856  CA  ILE H 111     130.160 120.502 -19.808  1.00 29.95      HS8
ATOM  41857  CB  ILE H 111     130.646 121.243 -21.043  1.00 29.67      HS8
ATOM  41858  CG2 ILE H 111     129.627 121.133 -22.169  1.00 29.67      HS8
ATOM  41859  CG1 ILE H 111     131.016 122.671 -20.618  1.00 29.67      HS8
ATOM  41860  CD1 ILE H 111     131.234 123.638 -21.751  1.00 29.67      HS8
ATOM  41861  C   ILE H 111     129.755 119.078 -20.177  1.00 29.95      HS8
ATOM  41862  O   ILE H 111     130.594 118.300 -20.615  1.00 29.95      HS8
ATOM  41863  N   LEU H 112     128.488 118.715 -20.000  1.00 18.41      HS8
ATOM  41864  CA  LEU H 112     128.046 117.354 -20.366  1.00 18.41      HS8
ATOM  41865  CB  LEU H 112     127.169 116.716 -19.286  1.00 19.18      HS8
ATOM  41866  CG  LEU H 112     127.541 116.502 -17.819  1.00 19.18      HS8
ATOM  41867  CD1 LEU H 112     128.298 115.220 -17.671  1.00 19.18      HS8
ATOM  41868  CD2 LEU H 112     128.316 117.681 -17.300  1.00 19.18      HS8
ATOM  41869  C   LEU H 112     127.186 117.426 -21.611  1.00 18.41      HS8
ATOM  41870  O   LEU H 112     126.872 118.503 -22.090  1.00 18.41      HS8
ATOM  41871  N   SER H 113     126.802 116.275 -22.135  1.00 25.32      HS8
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ATOM  41872  CA  SER H 113     125.910 116.242 -23.284  1.00 25.32       HS8
ATOM  41873  CB  SER H 113     126.618 115.851 -24.562  1.00 32.47       HS8
ATOM  41874  OG  SER H 113     125.644 115.589 -25.556  1.00 32.47       HS8
ATOM  41875  C   SER H 113     124.907 115.177 -22.927  1.00 25.32       HS8
ATOM  41876  O   SER H 113     125.243 114.000 -22.878  1.00 25.32       HS8
ATOM  41877  N   THR H 114     123.676 115.606 -22.674  1.00 19.81       HS8
ATOM  41878  CA  THR H 114     122.594 114.730 -22.247  1.00 19.81       HS8
ATOM  41879  CB  THR H 114     122.004 115.245 -20.939  1.00 14.21       HS8
ATOM  41880  OG1 THR H 114     121.348 116.496 -21.185  1.00 14.21       HS8
ATOM  41881  CG2 THR H 114     123.106 115.481 -19.912  1.00 14.21       HS8
ATOM  41882  C   THR H 114     121.494 114.749 -23.270  1.00 19.81       HS8
ATOM  41883  O   THR H 114     121.536 115.560 -24.188  1.00 19.81       HS8
ATOM  41884  N   SER H 115     120.513 113.863 -23.105  1.00 21.83       HS8
ATOM  41885  CA  SER H 115     119.373 113.818 -24.023  1.00 21.83       HS8
ATOM  41886  CB  SER H 115     118.569 112.523 -23.865  1.00 28.99       HS8
ATOM  41887  OG  SER H 115     118.080 112.344 -22.545  1.00 28.99       HS8
ATOM  41888  C   SER H 115     118.519 115.027 -23.677  1.00 21.83       HS8
ATOM  41889  O   SER H 115     117.554 115.363 -24.366  1.00 21.83       HS8
ATOM  41890  N   LYS H 116     118.898 115.679 -22.588  1.00 33.61       HS8
ATOM  41891  CA  LYS H 116     118.225 116.880 -22.154  1.00 33.61       HS8
ATOM  41892  CB  LYS H 116     118.191 116.968 -20.629  1.00 82.44       HS8
ATOM  41893  CG  LYS H 116     116.935 116.391 -20.008  1.00 82.44       HS8
ATOM  41894  CD  LYS H 116     116.837 116.771 -18.544  1.00 82.44       HS8
ATOM  41895  CE  LYS H 116     115.441 116.527 -18.004  1.00 82.44       HS8
ATOM  41896  NZ  LYS H 116     114.424 117.350 -18.724  1.00 82.44       HS8
ATOM  41897  C   LYS H 116     119.035 118.036 -22.713  1.00 33.61       HS8
ATOM  41898  O   LYS H 116     118.851 119.182 -22.303  1.00 33.61       HS8
ATOM  41899  N   GLY H 117     119.945 117.715 -23.638  1.00 46.42       HS8
ATOM  41900  CA  GLY H 117     120.787 118.722 -24.271  1.00 46.42       HS8
ATOM  41901  C   GLY H 117     122.112 118.929 -23.571  1.00 46.42       HS8
ATOM  41902  O   GLY H 117     122.429 118.197 -22.642  1.00 46.42       HS8
ATOM  41903  N   VAL H 118     122.886 119.921 -24.000  1.00 26.06       HS8
ATOM  41904  CA  VAL H 118     124.186 120.174 -23.377  1.00 26.06       HS8
ATOM  41905  CB  VAL H 118     125.142 120.914 -24.342  1.00 17.04       HS8
ATOM  41906  CG1 VAL H 118     126.315 121.464 -23.569  1.00 17.04       HS8
ATOM  41907  CG2 VAL H 118     125.647 119.971 -25.430  1.00 17.04       HS8
ATOM  41908  C   VAL H 118     124.054 121.015 -22.114  1.00 26.06       HS8
ATOM  41909  O   VAL H 118     123.513 122.108 -22.161  1.00 26.06       HS8
ATOM  41910  N   LEU H 119     124.552 120.529 -20.985  1.00 25.69       HS8
ATOM  41911  CA  LEU H 119     124.441 121.305 -19.755  1.00 25.69       HS8
ATOM  41912  CB  LEU H 119     123.175 120.928 -18.988  1.00 25.07       HS8
ATOM  41913  CG  LEU H 119     122.438 119.692 -19.490  1.00 25.07       HS8
ATOM  41914  CD1 LEU H 119     121.665 119.041 -18.363  1.00 25.07       HS8
ATOM  41915  CD2 LEU H 119     121.508 120.091 -20.624  1.00 25.07       HS8
ATOM  41916  C   LEU H 119     125.633 121.129 -18.840  1.00 25.69       HS8
ATOM  41917  O   LEU H 119     126.339 120.125 -18.908  1.00 25.69       HS8
ATOM  41918  N   THR H 120     125.856 122.111 -17.972  1.00 18.97       HS8
ATOM  41919  CA  THR H 120     126.969 122.035 -17.048  1.00 18.97       HS8
ATOM  41920  CB  THR H 120     127.230 123.367 -16.383  1.00 36.32       HS8
ATOM  41921  OG1 THR H 120     126.369 123.511 -15.248  1.00 36.32       HS8
ATOM  41922  CG2 THR H 120     126.963 124.478 -17.364  1.00 36.32       HS8
ATOM  41923  C   THR H 120     126.602 121.036 -15.974  1.00 18.97       HS8
ATOM  41924  O   THR H 120     125.431 120.702 -15.822  1.00 18.97       HS8
ATOM  41925  N   ASP H 121     127.600 120.557 -15.235  1.00 45.75       HS8
ATOM  41926  CA  ASP H 121     127.346 119.596 -14.177  1.00 45.75       HS8
ATOM  41927  CB  ASP H 121     128.603 119.373 -13.318  1.00 69.00       HS8
ATOM  41928  CG  ASP H 121     129.348 120.661 -12.993  1.00 69.00       HS8
ATOM  41929  OD1 ASP H 121     129.745 121.386 -13.934  1.00 69.00       HS8
ATOM  41930  OD2 ASP H 121     129.555 120.940 -11.790  1.00 69.00       HS8
ATOM  41931  C   ASP H 121     126.170 120.064 -13.330  1.00 45.75       HS8
ATOM  41932  O   ASP H 121     125.149 119.373 -13.257  1.00 45.75       HS8
ATOM  41933  N   ARG H 122     126.291 121.245 -12.722  1.00 37.11       HS8
ATOM  41934  CA  ARG H 122     125.209 121.769 -11.896  1.00 37.11       HS8
ATOM  41935  CB  ARG H 122     125.423 123.251 -11.590  1.00167.70       HS8
ATOM  41936  CG  ARG H 122     126.532 123.499 -10.589  1.00167.70       HS8
ATOM  41937  CD  ARG H 122     126.539 124.934 -10.099  1.00167.70       HS8
ATOM  41938  NE  ARG H 122     127.557 125.145  -9.073  1.00167.70       HS8
ATOM  41939  CZ  ARG H 122     127.770 126.301  -8.452  1.00167.70       HS8
ATOM  41940  NH1 ARG H 122     127.034 127.363  -8.749  1.00167.70       HS8
ATOM  41941  NH2 ARG H 122     128.720 126.397  -7.532  1.00167.70       HS8
ATOM  41942  C   ARG H 122     123.891 121.565 -12.625  1.00 37.11       HS8
ATOM  41943  O   ARG H 122     122.995 120.894 -12.119  1.00 37.11       HS8
ATOM  41944  N   GLU H 123     123.792 122.118 -13.828  1.00 16.32       HS8
ATOM  41945  CA  GLU H 123     122.584 121.994 -14.631  1.00 16.32       HS8
ATOM  41946  CB  GLU H 123     122.832 122.553 -16.032  1.00134.88       HS8
ATOM  41947  CG  GLU H 123     122.940 124.063 -16.077  1.00134.88       HS8
ATOM  41948  CD  GLU H 123     123.261 124.581 -17.461  1.00134.88       HS8
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ATOM  41949  OE1 GLU H 123     122.591 124.160 -18.427  1.00134.88       HS8
ATOM  41950  OE2 GLU H 123     124.181 125.416 -17.583  1.00134.88       HS8
ATOM  41951  C   GLU H 123     122.107 120.549 -14.734  1.00 16.32       HS8
ATOM  41952  O   GLU H 123     121.026 120.203 -14.274  1.00 16.32       HS8
ATOM  41953  N   ALA H 124     122.918 119.703 -15.348  1.00 20.84       HS8
ATOM  41954  CA  ALA H 124     122.560 118.309 -15.514  1.00 20.84       HS8
ATOM  41955  CB  ALA H 124     123.739 117.549 -16.080  1.00107.64       HS8
ATOM  41956  C   ALA H 124     122.116 117.683 -14.204  1.00 20.84       HS8
ATOM  41957  O   ALA H 124     121.108 116.978 -14.148  1.00 20.84       HS8
ATOM  41958  N   ARG H 125     122.881 117.943 -13.150  1.00 46.03       HS8
ATOM  41959  CA  ARG H 125     122.572 117.392 -11.842  1.00 46.03       HS8
ATOM  41960  CB  ARG H 125     123.645 117.804 -10.833  1.00 62.02       HS8
ATOM  41961  CG  ARG H 125     123.782 116.835  -9.670  1.00 62.02       HS8
ATOM  41962  CD  ARG H 125     125.022 117.116  -8.830  1.00 62.02       HS8
ATOM  41963  NE  ARG H 125     126.230 117.216  -9.644  1.00 62.02       HS8
ATOM  41964  CZ  ARG H 125     126.850 118.360  -9.929  1.00 62.02       HS8
ATOM  41965  NH1 ARG H 125     126.380 119.514  -9.460  1.00 62.02       HS8
ATOM  41966  NH2 ARG H 125     127.938 118.354 -10.691  1.00 62.02       HS8
ATOM  41967  C   ARG H 125     121.199 117.865 -11.377  1.00 46.03       HS8
ATOM  41968  O   ARG H 125     120.471 117.132 -10.706  1.00 46.03       HS8
ATOM  41969  N   LYS H 126     120.851 119.094 -11.747  1.00 46.15       HS8
ATOM  41970  CA  LYS H 126     119.567 119.674 -11.385  1.00 46.15       HS8
ATOM  41971  CB  LYS H 126     119.510 121.148 -11.788  1.00140.26       HS8
ATOM  41972  CG  LYS H 126     118.197 121.830 -11.428  1.00140.26       HS8
ATOM  41973  CD  LYS H 126     118.133 123.259 -11.953  1.00140.26       HS8
ATOM  41974  CE  LYS H 126     116.780 123.893 -11.656  1.00140.26       HS8
ATOM  41975  NZ  LYS H 126     116.679 125.279 -12.184  1.00140.26       HS8
ATOM  41976  C   LYS H 126     118.417 118.922 -12.042  1.00 46.15       HS8
ATOM  41977  O   LYS H 126     117.374 118.760 -11.427  1.00 46.15       HS8
ATOM  41978  N   LEU H 127     118.596 118.466 -13.283  1.00 34.47       HS8
ATOM  41979  CA  LEU H 127     117.534 117.726 -13.970  1.00 34.47       HS8
ATOM  41980  CB  LEU H 127     117.452 118.114 -15.436  1.00 12.05       HS8
ATOM  41981  CG  LEU H 127     117.781 119.557 -15.753  1.00 12.05       HS8
ATOM  41982  CD1 LEU H 127     117.308 119.905 -17.173  1.00 12.05       HS8
ATOM  41983  CD2 LEU H 127     117.105 120.436 -14.732  1.00 12.05       HS8
ATOM  41984  C   LEU H 127     117.758 116.222 -13.891  1.00 34.47       HS8
ATOM  41985  O   LEU H 127     117.144 115.447 -14.639  1.00 34.47       HS8
ATOM  41986  N   GLY H 128     118.646 115.812 -12.991  1.00 54.42       HS8
ATOM  41987  CA  GLY H 128     118.932 114.400 -12.834  1.00 54.42       HS8
ATOM  41988  C   GLY H 128     119.120 113.647 -14.138  1.00 54.42       HS8
ATOM  41989  O   GLY H 128     118.300 112.798 -14.484  1.00 54.42       HS8
ATOM  41990  N   VAL H 129     120.199 113.957 -14.857  1.00 41.26       HS8
ATOM  41991  CA  VAL H 129     120.505 113.298 -16.125  1.00 41.26       HS8
ATOM  41992  CB  VAL H 129     119.972 114.086 -17.314  1.00 11.27       HS8
ATOM  41993  CG1 VAL H 129     118.492 114.128 -17.260  1.00 11.27       HS8
ATOM  41994  CG2 VAL H 129     120.526 115.490 -17.290  1.00 11.27       HS8
ATOM  41995  C   VAL H 129     121.997 113.152 -16.328  1.00 41.26       HS8
ATOM  41996  O   VAL H 129     122.780 113.974 -15.859  1.00 41.26       HS8
ATOM  41997  N   GLY H 130     122.392 112.106 -17.038  1.00 48.88       HS8
ATOM  41998  CA  GLY H 130     123.802 111.905 -17.284  1.00 48.88       HS8
ATOM  41999  C   GLY H 130     124.069 111.967 -18.769  1.00 48.88       HS8
ATOM  42000  O   GLY H 130     123.147 112.197 -19.566  1.00 48.88       HS8
ATOM  42001  N   GLY H 131     125.325 111.766 -19.152  1.00 38.77       HS8
ATOM  42002  CA  GLY H 131     125.655 111.789 -20.560  1.00 38.77       HS8
ATOM  42003  C   GLY H 131     127.139 111.763 -20.807  1.00 38.77       HS8
ATOM  42004  O   GLY H 131     127.926 111.504 -19.904  1.00 38.77       HS8
ATOM  42005  N   GLU H 132     127.510 112.036 -22.049  1.00 40.26       HS8
ATOM  42006  CA  GLU H 132     128.897 112.067 -22.466  1.00 40.26       HS8
ATOM  42007  CB  GLU H 132     128.966 112.226 -23.983  1.00 62.94       HS8
ATOM  42008  CG  GLU H 132     130.312 111.963 -24.605  1.00 62.94       HS8
ATOM  42009  CD  GLU H 132     130.208 111.714 -26.105  1.00 62.94       HS8
ATOM  42010  OE1 GLU H 132     129.542 110.729 -26.505  1.00 62.94       HS8
ATOM  42011  OE2 GLU H 132     130.790 112.501 -26.889  1.00 62.94       HS8
ATOM  42012  C   GLU H 132     129.542 113.257 -21.782  1.00 40.26       HS8
ATOM  42013  O   GLU H 132     129.242 114.405 -22.101  1.00 40.26       HS8
ATOM  42014  N   LEU H 133     130.410 112.972 -20.820  1.00 21.83       HS8
ATOM  42015  CA  LEU H 133     131.128 114.000 -20.077  1.00 21.83       HS8
ATOM  42016  CB  LEU H 133     131.829 113.351 -18.883  1.00 16.97       HS8
ATOM  42017  CG  LEU H 133     132.290 114.267 -17.753  1.00 16.97       HS8
ATOM  42018  CD1 LEU H 133     132.333 113.463 -16.488  1.00 16.97       HS8
ATOM  42019  CD2 LEU H 133     133.637 114.876 -18.055  1.00 16.97       HS8
ATOM  42020  C   LEU H 133     132.150 114.653 -21.007  1.00 21.83       HS8
ATOM  42021  O   LEU H 133     133.321 114.293 -20.996  1.00 21.83       HS8
ATOM  42022  N   ILE H 134     131.692 115.610 -21.808  1.00 48.09       HS8
ATOM  42023  CA  ILE H 134     132.526 116.307 -22.781  1.00 48.09       HS8
ATOM  42024  CB  ILE H 134     131.766 117.474 -23.377  1.00 50.42       HS8
ATOM  42025  CG2 ILE H 134     132.682 118.316 -24.241  1.00 50.42       HS8
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ATOM  42026  CG1 ILE H 134     130.601 116.935 -24.189  1.00 50.42      HS8
ATOM  42027  CD1 ILE H 134     129.672 118.010 -24.663  1.00 50.42      HS8
ATOM  42028  C   ILE H 134     133.885 116.831 -22.346  1.00 48.09      HS8
ATOM  42029  O   ILE H 134     134.914 116.220 -22.622  1.00 48.09      HS8
ATOM  42030  N   CYS H 135     133.890 117.981 -21.692  1.00 32.09      HS8
ATOM  42031  CA  CYS H 135     135.132 118.598 -21.256  1.00 32.09      HS8
ATOM  42032  CB  CYS H 135     135.451 119.765 -22.176  1.00 36.01      HS8
ATOM  42033  SG  CYS H 135     134.120 120.986 -22.250  1.00 36.01      HS8
ATOM  42034  C   CYS H 135     134.988 119.112 -19.839  1.00 32.09      HS8
ATOM  42035  O   CYS H 135     133.905 119.058 -19.272  1.00 32.09      HS8
ATOM  42036  N   GLU H 136     136.061 119.620 -19.252  1.00 37.33      HS8
ATOM  42037  CA  GLU H 136     135.927 120.140 -17.910  1.00 37.33      HS8
ATOM  42038  CB  GLU H 136     136.374 119.098 -16.884  1.00 67.72      HS8
ATOM  42039  CG  GLU H 136     137.862 118.856 -16.844  1.00 67.72      HS8
ATOM  42040  CD  GLU H 136     138.267 117.912 -15.735  1.00 67.72      HS8
ATOM  42041  OE1 GLU H 136     139.489 117.731 -15.534  1.00 67.72      HS8
ATOM  42042  OE2 GLU H 136     137.367 117.351 -15.071  1.00 67.72      HS8
ATOM  42043  C   GLU H 136     136.691 121.439 -17.716  1.00 37.33      HS8
ATOM  42044  O   GLU H 136     137.840 121.432 -17.282  1.00 37.33      HS8
ATOM  42045  N   VAL H 137     136.044 122.559 -18.026  1.00 22.48      HS8
ATOM  42046  CA  VAL H 137     136.669 123.872 -17.878  1.00 22.48      HS8
ATOM  42047  CB  VAL H 137     135.907 124.947 -18.604  1.00 29.49      HS8
ATOM  42048  CG1 VAL H 137     136.675 126.245 -18.504  1.00 29.49      HS8
ATOM  42049  CG2 VAL H 137     135.633 124.531 -20.026  1.00 29.49      HS8
ATOM  42050  C   VAL H 137     136.707 124.377 -16.457  1.00 22.48      HS8
ATOM  42051  O   VAL H 137     135.732 124.237 -15.733  1.00 22.48      HS8
ATOM  42052  N   TRP H 138     137.821 124.973 -16.058  1.00 41.30      HS8
ATOM  42053  CA  TRP H 138     137.898 125.559 -14.732  1.00 41.30      HS8
ATOM  42054  CB  TRP H 138     138.048 124.506 -13.611  1.00 56.17      HS8
ATOM  42055  CG  TRP H 138     139.287 123.655 -13.544  1.00 56.17      HS8
ATOM  42056  CD2 TRP H 138     140.601 124.068 -13.174  1.00 56.17      HS8
ATOM  42057  CE2 TRP H 138     141.415 122.911 -13.147  1.00 56.17      HS8
ATOM  42058  CE3 TRP H 138     141.174 125.298 -12.866  1.00 56.17      HS8
ATOM  42059  CD1 TRP H 138     139.357 122.294 -13.726  1.00 56.17      HS8
ATOM  42060  NE1 TRP H 138     140.633 121.842 -13.484  1.00 56.17      HS8
ATOM  42061  CZ2 TRP H 138     142.763 122.958 -12.828  1.00 56.17      HS8
ATOM  42062  CZ3 TRP H 138     142.514 125.344 -12.551  1.00 56.17      HS8
ATOM  42063  CH2 TRP H 138     143.297 124.182 -12.535  1.00 56.17      HS8
ATOM  42064  C   TRP H 138     138.963 126.628 -14.631  1.00 41.30      HS8
ATOM  42065  O   TRP H 138     139.458 127.041 -15.701  1.00 41.30      HS8
ATOM  42066  OXT TRP H 138     139.252 127.080 -13.504  1.00 56.17      HS8
TER   42066       TRP H 138                                             HS8
ATOM  42067  CB  GLU I   2     242.911 180.957  -4.404  1.00176.61      IS9
ATOM  42068  CG  GLU I   2     243.720 181.212  -3.125  1.00176.61      IS9
ATOM  42069  CD  GLU I   2     244.249 179.944  -2.465  1.00176.61      IS9
ATOM  42070  OE1 GLU I   2     245.142 179.291  -3.045  1.00176.61      IS9
ATOM  42071  OE2 GLU I   2     243.771 179.606  -1.360  1.00176.61      IS9
ATOM  42072  C   GLU I   2     243.514 178.721  -5.360  1.00129.84      IS9
ATOM  42073  O   GLU I   2     244.498 178.018  -5.124  1.00129.84      IS9
ATOM  42074  N   GLU I   2     243.154 180.676  -6.856  1.00129.84      IS9
ATOM  42075  CA  GLU I   2     243.668 180.236  -5.525  1.00129.84      IS9
ATOM  42076  N   GLN I   3     242.283 178.223  -5.481  1.00109.86      IS9
ATOM  42077  CA  GLN I   3     242.008 176.788  -5.353  1.00109.86      IS9
ATOM  42078  CB  GLN I   3     242.114 176.340  -3.892  1.00 85.73      IS9
ATOM  42079  CG  GLN I   3     243.421 175.625  -3.569  1.00 85.73      IS9
ATOM  42080  CD  GLN I   3     243.367 174.822  -2.276  1.00 85.73      IS9
ATOM  42081  OE1 GLN I   3     244.297 174.080  -1.959  1.00 85.73      IS9
ATOM  42082  NE2 GLN I   3     242.279 174.968  -1.526  1.00 85.73      IS9
ATOM  42083  C   GLN I   3     240.654 176.343  -5.899  1.00109.86      IS9
ATOM  42084  O   GLN I   3     239.786 177.159  -6.202  1.00109.86      IS9
ATOM  42085  N   TYR I   4     240.493 175.030  -6.019  1.00 93.41      IS9
ATOM  42086  CA  TYR I   4     239.260 174.431  -6.513  1.00 93.41      IS9
ATOM  42087  CB  TYR I   4     239.263 174.406  -8.035  1.00118.59      IS9
ATOM  42088  CG  TYR I   4     239.244 175.793  -8.621  1.00118.59      IS9
ATOM  42089  CD1 TYR I   4     240.414 176.399  -9.071  1.00118.59      IS9
ATOM  42090  CE1 TYR I   4     240.399 177.695  -9.578  1.00118.59      IS9
ATOM  42091  CD2 TYR I   4     238.058 176.517  -8.689  1.00118.59      IS9
ATOM  42092  CE2 TYR I   4     238.032 177.810  -9.189  1.00118.59      IS9
ATOM  42093  CZ  TYR I   4     239.202 178.393  -9.636  1.00118.59      IS9
ATOM  42094  OH  TYR I   4     239.164 179.661 -10.170  1.00118.59      IS9
ATOM  42095  C   TYR I   4     239.086 173.027  -5.942  1.00 93.41      IS9
ATOM  42096  O   TYR I   4     240.067 172.316  -5.696  1.00 93.41      IS9
ATOM  42097  N   TYR I   5     237.836 172.614  -5.750  1.00127.01      IS9
ATOM  42098  CA  TYR I   5     237.592 171.322  -5.128  1.00127.01      IS9
ATOM  42099  CB  TYR I   5     237.455 171.557  -3.623  1.00 62.93      IS9
ATOM  42100  CG  TYR I   5     237.219 170.336  -2.781  1.00 62.93      IS9
ATOM  42101  CD1 TYR I   5     235.931 169.865  -2.551  1.00 62.93      IS9
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ATOM  42102  CE1 TYR I   5     235.709 168.769  -1.735  1.00 62.93       IS9
ATOM  42103  CD2 TYR I   5     238.287 169.675  -2.179  1.00 62.93       IS9
ATOM  42104  CE2 TYR I   5     238.083 168.579  -1.363  1.00 62.93       IS9
ATOM  42105  CZ  TYR I   5     236.791 168.126  -1.141  1.00 62.93       IS9
ATOM  42106  OH  TYR I   5     236.584 167.029  -0.330  1.00 62.93       IS9
ATOM  42107  C   TYR I   5     236.424 170.482  -5.626  1.00127.01       IS9
ATOM  42108  O   TYR I   5     235.447 170.985  -6.173  1.00127.01       IS9
ATOM  42109  N   GLY I   6     236.561 169.180  -5.411  1.00 93.02       IS9
ATOM  42110  CA  GLY I   6     235.552 168.212  -5.789  1.00 93.02       IS9
ATOM  42111  C   GLY I   6     235.817 167.038  -4.873  1.00 93.02       IS9
ATOM  42112  O   GLY I   6     236.973 166.796  -4.519  1.00 93.02       IS9
ATOM  42113  N   THR I   7     234.781 166.306  -4.479  1.00102.87       IS9
ATOM  42114  CA  THR I   7     234.992 165.185  -3.575  1.00102.87       IS9
ATOM  42115  CB  THR I   7     233.804 164.998  -2.645  1.00 82.53       IS9
ATOM  42116  OG1 THR I   7     233.559 166.223  -1.948  1.00 82.53       IS9
ATOM  42117  CG2 THR I   7     234.103 163.916  -1.627  1.00 82.53       IS9
ATOM  42118  C   THR I   7     235.295 163.858  -4.249  1.00102.87       IS9
ATOM  42119  O   THR I   7     236.245 163.177  -3.874  1.00102.87       IS9
ATOM  42120  N   GLY I   8     234.487 163.474  -5.226  1.00 89.74       IS9
ATOM  42121  CA  GLY I   8     234.741 162.221  -5.915  1.00 89.74       IS9
ATOM  42122  C   GLY I   8     234.776 160.976  -5.044  1.00 89.74       IS9
ATOM  42123  O   GLY I   8     235.725 160.746  -4.284  1.00 89.74       IS9
ATOM  42124  N   ARG I   9     233.725 160.168  -5.165  1.00 77.33       IS9
ATOM  42125  CA  ARG I   9     233.591 158.920  -4.420  1.00 77.33       IS9
ATOM  42126  CB  ARG I   9     232.553 159.056  -3.305  1.00 68.67       IS9
ATOM  42127  CG  ARG I   9     233.113 159.530  -1.981  1.00 68.67       IS9
ATOM  42128  CD  ARG I   9     232.040 159.514  -0.891  1.00 68.67       IS9
ATOM  42129  NE  ARG I   9     231.067 160.591  -1.059  1.00 68.67       IS9
ATOM  42130  CZ  ARG I   9     231.091 161.739  -0.386  1.00 68.67       IS9
ATOM  42131  NH1 ARG I   9     232.039 161.964   0.517  1.00 68.67       IS9
ATOM  42132  NH2 ARG I   9     230.176 162.670  -0.632  1.00 68.67       IS9
ATOM  42133  C   ARG I   9     233.160 157.813  -5.367  1.00 77.33       IS9
ATOM  42134  O   ARG I   9     232.535 158.067  -6.393  1.00 77.33       IS9
ATOM  42135  N   ARG I  10     233.492 156.579  -5.017  1.00 51.90       IS9
ATOM  42136  CA  ARG I  10     233.129 155.447  -5.849  1.00 51.90       IS9
ATOM  42137  CB  ARG I  10     233.811 155.566  -7.216  1.00 94.61       IS9
ATOM  42138  CG  ARG I  10     234.046 154.244  -7.935  1.00 94.61       IS9
ATOM  42139  CD  ARG I  10     232.766 153.445  -8.128  1.00 94.61       IS9
ATOM  42140  NE  ARG I  10     233.039 152.199  -8.833  1.00 94.61       IS9
ATOM  42141  CZ  ARG I  10     233.380 152.133 -10.114  1.00 94.61       IS9
ATOM  42142  NH1 ARG I  10     233.481 153.242 -10.832  1.00 94.61       IS9
ATOM  42143  NH2 ARG I  10     233.635 150.962 -10.675  1.00 94.61       IS9
ATOM  42144  C   ARG I  10     233.465 154.102  -5.221  1.00 51.90       IS9
ATOM  42145  O   ARG I  10     234.608 153.839  -4.862  1.00 51.90       IS9
ATOM  42146  N   LYS I  11     232.451 153.256  -5.088  1.00 48.65       IS9
ATOM  42147  CA  LYS I  11     232.650 151.927  -4.552  1.00 48.65       IS9
ATOM  42148  CB  LYS I  11     233.322 151.061  -5.623  1.00 36.73       IS9
ATOM  42149  CG  LYS I  11     233.612 149.625  -5.221  1.00 36.73       IS9
ATOM  42150  CD  LYS I  11     234.317 148.908  -6.356  1.00 36.73       IS9
ATOM  42151  CE  LYS I  11     234.472 147.425  -6.078  1.00 36.73       IS9
ATOM  42152  NZ  LYS I  11     234.944 146.739  -7.304  1.00 36.73       IS9
ATOM  42153  C   LYS I  11     233.482 151.945  -3.275  1.00 48.65       IS9
ATOM  42154  O   LYS I  11     234.576 151.389  -3.219  1.00 48.65       IS9
ATOM  42155  N   GLU I  12     232.949 152.593  -2.251  1.00 63.11       IS9
ATOM  42156  CA  GLU I  12     233.605 152.684  -0.952  1.00 63.11       IS9
ATOM  42157  CB  GLU I  12     233.687 151.303  -0.315  1.00179.93       IS9
ATOM  42158  CG  GLU I  12     233.798 151.354   1.188  1.00179.93       IS9
ATOM  42159  CD  GLU I  12     233.697 149.985   1.807  1.00179.93       IS9
ATOM  42160  OE1 GLU I  12     234.561 149.140   1.493  1.00179.93       IS9
ATOM  42161  OE2 GLU I  12     232.761 149.752   2.605  1.00179.93       IS9
ATOM  42162  C   GLU I  12     234.988 153.331  -0.960  1.00 63.11       IS9
ATOM  42163  O   GLU I  12     235.940 152.803  -0.377  1.00 63.11       IS9
ATOM  42164  N   ALA I  13     235.082 154.484  -1.616  1.00 79.28       IS9
ATOM  42165  CA  ALA I  13     236.328 155.238  -1.695  1.00 79.28       IS9
ATOM  42166  CB  ALA I  13     237.212 154.688  -2.802  1.00 18.64       IS9
ATOM  42167  C   ALA I  13     236.027 156.715  -1.944  1.00 79.28       IS9
ATOM  42168  O   ALA I  13     235.091 157.058  -2.671  1.00 79.28       IS9
ATOM  42169  N   VAL I  14     236.824 157.584  -1.329  1.00 76.88       IS9
ATOM  42170  CA  VAL I  14     236.651 159.024  -1.473  1.00 76.88       IS9
ATOM  42171  CB  VAL I  14     236.133 159.653  -0.174  1.00 87.78       IS9
ATOM  42172  CG1 VAL I  14     235.604 161.037  -0.458  1.00 87.78       IS9
ATOM  42173  CG2 VAL I  14     235.069 158.775   0.452  1.00 87.78       IS9
ATOM  42174  C   VAL I  14     237.990 159.673  -1.797  1.00 76.88       IS9
ATOM  42175  O   VAL I  14     239.028 159.264  -1.272  1.00 76.88       IS9
ATOM  42176  N   ALA I  15     237.973 160.687  -2.653  1.00 93.23       IS9
ATOM  42177  CA  ALA I  15     239.211 161.363  -3.015  1.00 93.23       IS9
ATOM  42178  CB  ALA I  15     239.768 160.761  -4.294  1.00 27.10       IS9
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ATOM  42179  C   ALA I  15     239.060 162.878  -3.170  1.00 93.23      IS9
ATOM  42180  O   ALA I  15     238.476 163.362  -4.147  1.00 93.23      IS9
ATOM  42181  N   ARG I  16     239.601 163.620  -2.203  1.00 61.34      IS9
ATOM  42182  CA  ARG I  16     239.546 165.076  -2.228  1.00 61.34      IS9
ATOM  42183  CB  ARG I  16     240.060 165.657  -0.919  1.00100.02      IS9
ATOM  42184  CG  ARG I  16     239.634 164.943   0.326  1.00100.02      IS9
ATOM  42185  CD  ARG I  16     240.118 165.760   1.488  1.00100.02      IS9
ATOM  42186  NE  ARG I  16     240.060 165.048   2.755  1.00100.02      IS9
ATOM  42187  CZ  ARG I  16     240.511 165.556   3.896  1.00100.02      IS9
ATOM  42188  NH1 ARG I  16     241.043 166.775   3.905  1.00100.02      IS9
ATOM  42189  NH2 ARG I  16     240.444 164.851   5.021  1.00100.02      IS9
ATOM  42190  C   ARG I  16     240.430 165.595  -3.353  1.00 61.34      IS9
ATOM  42191  O   ARG I  16     241.623 165.284  -3.413  1.00 61.34      IS9
ATOM  42192  N   VAL I  17     239.852 166.389  -4.242  1.00 75.99      IS9
ATOM  42193  CA  VAL I  17     240.632 166.922  -5.341  1.00 75.99      IS9
ATOM  42194  CB  VAL I  17     239.983 166.589  -6.716  1.00 70.42      IS9
ATOM  42195  CG1 VAL I  17     240.726 167.297  -7.831  1.00 70.42      IS9
ATOM  42196  CG2 VAL I  17     240.030 165.084  -6.965  1.00 70.42      IS9
ATOM  42197  C   VAL I  17     240.841 168.427  -5.206  1.00 75.99      IS9
ATOM  42198  O   VAL I  17     239.900 169.225  -5.292  1.00 75.99      IS9
ATOM  42199  N   PHE I  18     242.099 168.792  -4.974  1.00 66.34      IS9
ATOM  42200  CA  PHE I  18     242.499 170.178  -4.834  1.00 66.34      IS9
ATOM  42201  CB  PHE I  18     243.366 170.342  -3.594  1.00 83.13      IS9
ATOM  42202  CG  PHE I  18     242.579 170.414  -2.318  1.00 83.13      IS9
ATOM  42203  CD1 PHE I  18     242.922 169.623  -1.226  1.00 83.13      IS9
ATOM  42204  CD2 PHE I  18     241.509 171.294  -2.199  1.00 83.13      IS9
ATOM  42205  CE1 PHE I  18     242.211 169.708  -0.028  1.00 83.13      IS9
ATOM  42206  CE2 PHE I  18     240.793 171.387  -1.009  1.00 83.13      IS9
ATOM  42207  CZ  PHE I  18     241.145 170.592   0.079  1.00 83.13      IS9
ATOM  42208  C   PHE I  18     243.263 170.593  -6.075  1.00 66.34      IS9
ATOM  42209  O   PHE I  18     244.391 170.164  -6.305  1.00 66.34      IS9
ATOM  42210  N   LEU I  19     242.623 171.424  -6.882  1.00 76.43      IS9
ATOM  42211  CA  LEU I  19     243.218 171.902  -8.110  1.00 76.43      IS9
ATOM  42212  CB  LEU I  19     242.153 172.015  -9.187  1.00 72.13      IS9
ATOM  42213  CG  LEU I  19     241.648 170.645  -9.614  1.00 72.13      IS9
ATOM  42214  CD1 LEU I  19     240.481 170.777 -10.578  1.00 72.13      IS9
ATOM  42215  CD2 LEU I  19     242.800 169.902 -10.254  1.00 72.13      IS9
ATOM  42216  C   LEU I  19     243.892 173.242  -7.925  1.00 76.43      IS9
ATOM  42217  O   LEU I  19     243.514 174.035  -7.059  1.00 76.43      IS9
ATOM  42218  N   ARG I  20     244.893 173.486  -8.759  1.00161.79      IS9
ATOM  42219  CA  ARG I  20     245.659 174.719  -8.721  1.00161.79      IS9
ATOM  42220  CB  ARG I  20     246.744 174.608  -7.645  1.00125.98      IS9
ATOM  42221  CG  ARG I  20     246.181 174.410  -6.241  1.00125.98      IS9
ATOM  42222  CD  ARG I  20     247.153 173.693  -5.319  1.00125.98      IS9
ATOM  42223  NE  ARG I  20     246.620 173.559  -3.963  1.00125.98      IS9
ATOM  42224  CZ  ARG I  20     247.250 172.942  -2.967  1.00125.98      IS9
ATOM  42225  NH1 ARG I  20     248.442 172.394  -3.170  1.00125.98      IS9
ATOM  42226  NH2 ARG I  20     246.695 172.879  -1.763  1.00125.98      IS9
ATOM  42227  C   ARG I  20     246.280 174.909 -10.101  1.00161.79      IS9
ATOM  42228  O   ARG I  20     246.638 173.935 -10.764  1.00161.79      IS9
ATOM  42229  N   PRO I  21     246.393 176.165 -10.565  1.00121.27      IS9
ATOM  42230  CD  PRO I  21     245.789 177.390 -10.019  1.00 84.60      IS9
ATOM  42231  CA  PRO I  21     246.981 176.424 -11.885  1.00121.27      IS9
ATOM  42232  CB  PRO I  21     246.578 177.872 -12.170  1.00 84.60      IS9
ATOM  42233  CG  PRO I  21     245.381 178.102 -11.274  1.00 84.60      IS9
ATOM  42234  C   PRO I  21     248.497 176.251 -11.851  1.00121.27      IS9
ATOM  42235  O   PRO I  21     249.176 176.833 -11.005  1.00121.27      IS9
ATOM  42236  N   GLY I  22     249.023 175.448 -12.769  1.00133.95      IS9
ATOM  42237  CA  GLY I  22     250.456 175.224 -12.806  1.00133.95      IS9
ATOM  42238  C   GLY I  22     250.862 174.239 -13.881  1.00133.95      IS9
ATOM  42239  O   GLY I  22     250.133 174.036 -14.850  1.00133.95      IS9
ATOM  42240  N   ASN I  23     252.029 173.628 -13.708  1.00143.91      IS9
ATOM  42241  CA  ASN I  23     252.540 172.660 -14.670  1.00143.91      IS9
ATOM  42242  CB  ASN I  23     253.686 171.857 -14.050  1.00201.30      IS9
ATOM  42243  CG  ASN I  23     254.268 170.831 -15.009  1.00201.30      IS9
ATOM  42244  OD1 ASN I  23     255.176 170.080 -14.651  1.00201.30      IS9
ATOM  42245  ND2 ASN I  23     253.750 170.795 -16.233  1.00201.30      IS9
ATOM  42246  C   ASN I  23     251.440 171.709 -15.123  1.00143.91      IS9
ATOM  42247  O   ASN I  23     251.025 171.726 -16.284  1.00143.91      IS9
ATOM  42248  N   GLY I  24     250.972 170.879 -14.198  1.00144.97      IS9
ATOM  42249  CA  GLY I  24     249.927 169.932 -14.525  1.00144.97      IS9
ATOM  42250  C   GLY I  24     250.181 168.592 -13.875  1.00144.97      IS9
ATOM  42251  O   GLY I  24     249.480 167.620 -14.159  1.00144.97      IS9
ATOM  42252  N   LYS I  25     251.188 168.537 -13.007  1.00125.91      IS9
ATOM  42253  CA  LYS I  25     251.521 167.298 -12.314  1.00125.91      IS9
ATOM  42254  CB  LYS I  25     252.993 167.284 -11.888  1.00181.61      IS9
ATOM  42255  CG  LYS I  25     253.426 168.445 -11.007  1.00181.61      IS9
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ATOM  42256  CD  LYS I  25     254.865 168.255 -10.532  1.00181.61      IS9
ATOM  42257  CE  LYS I  25     255.828 168.068 -11.703  1.00181.61      IS9
ATOM  42258  NZ  LYS I  25     257.220 167.763 -11.264  1.00181.61      IS9
ATOM  42259  C   LYS I  25     250.625 167.114 -11.098  1.00125.91      IS9
ATOM  42260  O   LYS I  25     249.978 168.059 -10.649  1.00125.91      IS9
ATOM  42261  N   VAL I  26     250.587 165.896 -10.567  1.00 81.79      IS9
ATOM  42262  CA  VAL I  26     249.736 165.613  -9.421  1.00 81.79      IS9
ATOM  42263  CB  VAL I  26     248.463 164.871  -9.862  1.00 71.66      IS9
ATOM  42264  CG1 VAL I  26     247.470 164.818  -8.704  1.00 71.66      IS9
ATOM  42265  CG2 VAL I  26     247.856 165.554 -11.084  1.00 71.66      IS9
ATOM  42266  C   VAL I  26     250.398 164.794  -8.320  1.00 81.79      IS9
ATOM  42267  O   VAL I  26     251.274 163.965  -8.573  1.00 81.79      IS9
ATOM  42268  N   THR I  27     249.958 165.039  -7.092  1.00 78.31      IS9
ATOM  42269  CA  THR I  27     250.478 164.336  -5.936  1.00 78.31      IS9
ATOM  42270  CB  THR I  27     251.098 165.290  -4.922  1.00140.19      IS9
ATOM  42271  OG1 THR I  27     252.186 165.994  -5.529  1.00140.19      IS9
ATOM  42272  CG2 THR I  27     251.600 164.514  -3.713  1.00140.19      IS9
ATOM  42273  C   THR I  27     249.342 163.626  -5.242  1.00 78.31      IS9
ATOM  42274  O   THR I  27     248.225 164.144  -5.163  1.00 78.31      IS9
ATOM  42275  N   VAL I  28     249.633 162.437  -4.735  1.00 53.24      IS9
ATOM  42276  CA  VAL I  28     248.638 161.657  -4.024  1.00 53.24      IS9
ATOM  42277  CB  VAL I  28     248.246 160.410  -4.797  1.00 47.13      IS9
ATOM  42278  CG1 VAL I  28     247.245 159.611  -3.982  1.00 47.13      IS9
ATOM  42279  CG2 VAL I  28     247.662 160.804  -6.150  1.00 47.13      IS9
ATOM  42280  C   VAL I  28     249.203 161.233  -2.688  1.00 53.24      IS9
ATOM  42281  O   VAL I  28     250.102 160.401  -2.624  1.00 53.24      IS9
ATOM  42282  N   ASN I  29     248.674 161.823  -1.624  1.00121.34      IS9
ATOM  42283  CA  ASN I  29     249.121 161.510  -0.279  1.00121.34      IS9
ATOM  42284  CB  ASN I  29     248.708 160.085   0.098  1.00 88.50      IS9
ATOM  42285  CG  ASN I  29     247.234 159.828  -0.121  1.00 88.50      IS9
ATOM  42286  OD1 ASN I  29     246.390 160.683   0.168  1.00 88.50      IS9
ATOM  42287  ND2 ASN I  29     246.912 158.639  -0.623  1.00 88.50      IS9
ATOM  42288  C   ASN I  29     250.635 161.648  -0.161  1.00121.34      IS9
ATOM  42289  O   ASN I  29     251.281 160.891   0.567  1.00121.34      IS9
ATOM  42290  N   GLY I  30     251.203 162.609  -0.880  1.00179.46      IS9
ATOM  42291  CA  GLY I  30     252.638 162.810  -0.815  1.00179.46      IS9
ATOM  42292  C   GLY I  30     253.411 162.079  -1.895  1.00179.46      IS9
ATOM  42293  O   GLY I  30     254.581 162.378  -2.133  1.00179.46      IS9
ATOM  42294  N   GLN I  31     252.767 161.112  -2.541  1.00 78.17      IS9
ATOM  42295  CA  GLN I  31     253.410 160.358  -3.612  1.00 78.17      IS9
ATOM  42296  CB  GLN I  31     252.970 158.898  -3.587  1.00103.37      IS9
ATOM  42297  CG  GLN I  31     253.860 157.994  -2.768  1.00103.37      IS9
ATOM  42298  CD  GLN I  31     253.305 156.588  -2.671  1.00103.37      IS9
ATOM  42299  OE1 GLN I  31     252.242 156.374  -2.092  1.00103.37      IS9
ATOM  42300  NE2 GLN I  31     254.019 155.622  -3.243  1.00103.37      IS9
ATOM  42301  C   GLN I  31     253.024 160.968  -4.938  1.00 78.17      IS9
ATOM  42302  O   GLN I  31     251.963 161.581  -5.060  1.00 78.17      IS9
ATOM  42303  N   ASP I  32     253.886 160.814  -5.932  1.00 61.88      IS9
ATOM  42304  CA  ASP I  32     253.582 161.357  -7.246  1.00 61.88      IS9
ATOM  42305  CB  ASP I  32     254.826 161.334  -8.138  1.00141.24      IS9
ATOM  42306  CG  ASP I  32     254.647 162.149  -9.406  1.00141.24      IS9
ATOM  42307  OD1 ASP I  32     253.724 161.845 -10.189  1.00141.24      IS9
ATOM  42308  OD2 ASP I  32     255.431 163.097  -9.621  1.00141.24      IS9
ATOM  42309  C   ASP I  32     252.479 160.497  -7.859  1.00 61.88      IS9
ATOM  42310  O   ASP I  32     252.374 159.303  -7.566  1.00 61.88      IS9
ATOM  42311  N   PHE I  33     251.644 161.108  -8.692  1.00116.83      IS9
ATOM  42312  CA  PHE I  33     250.555 160.386  -9.339  1.00116.83      IS9
ATOM  42313  CB  PHE I  33     249.985 161.220 -10.485  1.00 79.51      IS9
ATOM  42314  CG  PHE I  33     248.708 160.682 -11.051  1.00 79.51      IS9
ATOM  42315  CD1 PHE I  33     247.611 160.450 -10.230  1.00 79.51      IS9
ATOM  42316  CD2 PHE I  33     248.583 160.445 -12.410  1.00 79.51      IS9
ATOM  42317  CE1 PHE I  33     246.406 159.994 -10.754  1.00 79.51      IS9
ATOM  42318  CE2 PHE I  33     247.379 159.987 -12.941  1.00 79.51      IS9
ATOM  42319  CZ  PHE I  33     246.289 159.763 -12.109  1.00 79.51      IS9
ATOM  42320  C   PHE I  33     251.099 159.077  -9.887  1.00116.83      IS9
ATOM  42321  O   PHE I  33     250.620 157.993  -9.548  1.00116.83      IS9
ATOM  42322  N   ASN I  34     252.123 159.199 -10.724  1.00 52.52      IS9
ATOM  42323  CA  ASN I  34     252.764 158.054 -11.348  1.00 52.52      IS9
ATOM  42324  CB  ASN I  34     253.710 158.531 -12.453  1.00136.65      IS9
ATOM  42325  CG  ASN I  34     253.054 159.524 -13.399  1.00136.65      IS9
ATOM  42326  OD1 ASN I  34     252.020 159.238 -14.001  1.00136.65      IS9
ATOM  42327  ND2 ASN I  34     253.659 160.700 -13.534  1.00136.65      IS9
ATOM  42328  C   ASN I  34     253.538 157.230 -10.327  1.00 52.52      IS9
ATOM  42329  O   ASN I  34     254.157 156.229 -10.673  1.00 52.52      IS9
ATOM  42330  N   GLU I  35     253.508 157.644  -9.068  1.00 68.51      IS9
ATOM  42331  CA  GLU I  35     254.221 156.909  -8.033  1.00 68.51      IS9
ATOM  42332  CB  GLU I  35     254.888 157.882  -7.057  1.00127.44      IS9
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ATOM  42333  CG  GLU I  35     255.880 157.233  -6.101  1.00127.44      IS9
ATOM  42334  CD  GLU I  35     257.152 156.772  -6.793  1.00127.44      IS9
ATOM  42335  OE1 GLU I  35     257.069 155.929  -7.713  1.00127.44      IS9
ATOM  42336  OE2 GLU I  35     258.237 157.259  -6.411  1.00127.44      IS9
ATOM  42337  C   GLU I  35     253.260 155.995  -7.276  1.00 68.51      IS9
ATOM  42338  O   GLU I  35     253.527 154.802  -7.095  1.00 68.51      IS9
ATOM  42339  N   TYR I  36     252.139 156.566  -6.840  1.00 57.46      IS9
ATOM  42340  CA  TYR I  36     251.110 155.836  -6.093  1.00 57.46      IS9
ATOM  42341  CB  TYR I  36     250.002 156.812  -5.682  1.00 65.01      IS9
ATOM  42342  CG  TYR I  36     248.963 156.269  -4.726  1.00 65.01      IS9
ATOM  42343  CD1 TYR I  36     249.340 155.579  -3.575  1.00 65.01      IS9
ATOM  42344  CE1 TYR I  36     248.393 155.140  -2.656  1.00 65.01      IS9
ATOM  42345  CD2 TYR I  36     247.607 156.505  -4.939  1.00 65.01      IS9
ATOM  42346  CE2 TYR I  36     246.654 156.075  -4.032  1.00 65.01      IS9
ATOM  42347  CZ  TYR I  36     247.053 155.392  -2.891  1.00 65.01      IS9
ATOM  42348  OH  TYR I  36     246.116 154.953  -1.983  1.00 65.01      IS9
ATOM  42349  C   TYR I  36     250.533 154.744  -6.978  1.00 57.46      IS9
ATOM  42350  O   TYR I  36     250.361 153.600  -6.561  1.00 57.46      IS9
ATOM  42351  N   PHE I  37     250.248 155.129  -8.213  1.00 64.50      IS9
ATOM  42352  CA  PHE I  37     249.690 154.236  -9.203  1.00 64.50      IS9
ATOM  42353  CB  PHE I  37     248.697 155.008 -10.062  1.00 64.19      IS9
ATOM  42354  CG  PHE I  37     247.512 155.514  -9.298  1.00 64.19      IS9
ATOM  42355  CD1 PHE I  37     246.776 156.593  -9.771  1.00 64.19      IS9
ATOM  42356  CD2 PHE I  37     247.126 154.901  -8.103  1.00 64.19      IS9
ATOM  42357  CE1 PHE I  37     245.679 157.053  -9.070  1.00 64.19      IS9
ATOM  42358  CE2 PHE I  37     246.030 155.353  -7.398  1.00 64.19      IS9
ATOM  42359  CZ  PHE I  37     245.305 156.432  -7.880  1.00 64.19      IS9
ATOM  42360  C   PHE I  37     250.799 153.677 -10.072  1.00 64.50      IS9
ATOM  42361  O   PHE I  37     250.856 153.960 -11.270  1.00 64.50      IS9
ATOM  42362  N   GLN I  38     251.678 152.878  -9.473  1.00 55.55      IS9
ATOM  42363  CA  GLN I  38     252.784 152.310 -10.229  1.00 55.55      IS9
ATOM  42364  CB  GLN I  38     253.837 151.717  -9.292  1.00159.06      IS9
ATOM  42365  CG  GLN I  38     255.278 151.931  -9.765  1.00159.06      IS9
ATOM  42366  CD  GLN I  38     255.484 151.632 -11.245  1.00159.06      IS9
ATOM  42367  OE1 GLN I  38     254.870 152.258 -12.111  1.00159.06      IS9
ATOM  42368  NE2 GLN I  38     256.361 150.681 -11.539  1.00159.06      IS9
ATOM  42369  C   GLN I  38     252.313 151.232 -11.196  1.00 55.55      IS9
ATOM  42370  O   GLN I  38     251.774 150.210 -10.777  1.00 55.55      IS9
ATOM  42371  N   GLY I  39     252.521 151.467 -12.488  1.00100.77      IS9
ATOM  42372  CA  GLY I  39     252.128 150.495 -13.492  1.00100.77      IS9
ATOM  42373  C   GLY I  39     250.757 149.875 -13.284  1.00100.77      IS9
ATOM  42374  O   GLY I  39     250.641 148.708 -12.906  1.00100.77      IS9
ATOM  42375  N   LEU I  40     249.722 150.673 -13.523  1.00 60.05      IS9
ATOM  42376  CA  LEU I  40     248.335 150.250 -13.406  1.00 60.05      IS9
ATOM  42377  CB  LEU I  40     247.733 150.735 -12.098  1.00 62.82      IS9
ATOM  42378  CG  LEU I  40     248.487 150.255 -10.868  1.00 62.82      IS9
ATOM  42379  CD1 LEU I  40     247.782 150.736  -9.619  1.00 62.82      IS9
ATOM  42380  CD2 LEU I  40     248.566 148.739 -10.886  1.00 62.82      IS9
ATOM  42381  C   LEU I  40     247.643 150.939 -14.553  1.00 60.05      IS9
ATOM  42382  O   LEU I  40     247.153 152.057 -14.396  1.00 60.05      IS9
ATOM  42383  N   VAL I  41     247.628 150.279 -15.708  1.00 51.80      IS9
ATOM  42384  CA  VAL I  41     247.021 150.824 -16.922  1.00 51.80      IS9
ATOM  42385  CB  VAL I  41     246.522 149.691 -17.838  1.00 87.13      IS9
ATOM  42386  CG1 VAL I  41     245.977 150.270 -19.132  1.00 87.13      IS9
ATOM  42387  CG2 VAL I  41     247.658 148.728 -18.128  1.00 87.13      IS9
ATOM  42388  C   VAL I  41     245.871 151.795 -16.655  1.00 51.80      IS9
ATOM  42389  O   VAL I  41     245.855 152.902 -17.191  1.00 51.80      IS9
ATOM  42390  N   ARG I  42     244.918 151.376 -15.826  1.00 57.74      IS9
ATOM  42391  CA  ARG I  42     243.764 152.204 -15.474  1.00 57.74      IS9
ATOM  42392  CB  ARG I  42     243.084 151.655 -14.212  1.00 68.89      IS9
ATOM  42393  CG  ARG I  42     242.541 150.228 -14.286  1.00 68.89      IS9
ATOM  42394  CD  ARG I  42     241.029 150.201 -14.530  1.00 68.89      IS9
ATOM  42395  NE  ARG I  42     240.273 151.006 -13.571  1.00 68.89      IS9
ATOM  42396  CZ  ARG I  42     239.614 152.118 -13.888  1.00 68.89      IS9
ATOM  42397  NH1 ARG I  42     239.616 152.563 -15.140  1.00 68.89      IS9
ATOM  42398  NH2 ARG I  42     238.939 152.781 -12.960  1.00 68.89      IS9
ATOM  42399  C   ARG I  42     244.193 153.647 -15.192  1.00 57.74      IS9
ATOM  42400  O   ARG I  42     243.557 154.605 -15.654  1.00 57.74      IS9
ATOM  42401  N   ALA I  43     245.272 153.764 -14.412  1.00 48.53      IS9
ATOM  42402  CA  ALA I  43     245.870 155.028 -13.981  1.00 48.53      IS9
ATOM  42403  CB  ALA I  43     247.387 154.898 -13.969  1.00 98.29      IS9
ATOM  42404  C   ALA I  43     245.459 156.230 -14.813  1.00 48.53      IS9
ATOM  42405  O   ALA I  43     244.708 157.086 -14.346  1.00 48.53      IS9
ATOM  42406  N   VAL I  44     245.966 156.295 -16.038  1.00 41.68      IS9
ATOM  42407  CA  VAL I  44     245.645 157.391 -16.941  1.00 41.68      IS9
ATOM  42408  CB  VAL I  44     245.635 156.910 -18.393  1.00 64.72      IS9
ATOM  42409  CG1 VAL I  44     245.292 158.062 -19.325  1.00 64.72      IS9
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ATOM  42410  CG2 VAL I  44     246.983 156.302 -18.737  1.00 64.72       IS9
ATOM  42411  C   VAL I  44     244.268 157.936 -16.610  1.00 41.68       IS9
ATOM  42412  O   VAL I  44     244.137 159.049 -16.104  1.00 41.68       IS9
ATOM  42413  N   ALA I  45     243.256 157.120 -16.892  1.00 45.69       IS9
ATOM  42414  CA  ALA I  45     241.855 157.439 -16.645  1.00 45.69       IS9
ATOM  42415  CB  ALA I  45     241.177 156.236 -16.014  1.00 79.24       IS9
ATOM  42416  C   ALA I  45     241.616 158.671 -15.777  1.00 45.69       IS9
ATOM  42417  O   ALA I  45     241.114 159.688 -16.253  1.00 45.69       IS9
ATOM  42418  N   ALA I  46     241.973 158.555 -14.499  1.00 51.62       IS9
ATOM  42419  CA  ALA I  46     241.806 159.622 -13.510  1.00 51.62       IS9
ATOM  42420  CB  ALA I  46     242.838 159.442 -12.391  1.00 33.74       IS9
ATOM  42421  C   ALA I  46     241.868 161.061 -14.047  1.00 51.62       IS9
ATOM  42422  O   ALA I  46     240.935 161.845 -13.866  1.00 51.62       IS9
ATOM  42423  N   LEU I  47     242.970 161.402 -14.704  1.00 62.59       IS9
ATOM  42424  CA  LEU I  47     243.158 162.747 -15.235  1.00 62.59       IS9
ATOM  42425  CB  LEU I  47     244.642 162.974 -15.517  1.00 65.38       IS9
ATOM  42426  CG  LEU I  47     245.597 162.386 -14.476  1.00 65.38       IS9
ATOM  42427  CD1 LEU I  47     247.036 162.624 -14.914  1.00 65.38       IS9
ATOM  42428  CD2 LEU I  47     245.344 163.014 -13.122  1.00 65.38       IS9
ATOM  42429  C   LEU I  47     242.343 163.000 -16.503  1.00 62.59       IS9
ATOM  42430  O   LEU I  47     242.333 164.110 -17.040  1.00 62.59       IS9
ATOM  42431  N   GLU I  48     241.654 161.967 -16.972  1.00 74.77       IS9
ATOM  42432  CA  GLU I  48     240.847 162.083 -18.174  1.00 74.77       IS9
ATOM  42433  CB  GLU I  48     239.932 160.867 -18.323  1.00156.92       IS9
ATOM  42434  CG  GLU I  48     239.106 160.890 -19.590  1.00156.92       IS9
ATOM  42435  CD  GLU I  48     239.968 160.892 -20.832  1.00156.92       IS9
ATOM  42436  OE1 GLU I  48     239.435 161.162 -21.928  1.00156.92       IS9
ATOM  42437  OE2 GLU I  48     241.180 160.614 -20.711  1.00156.92       IS9
ATOM  42438  C   GLU I  48     240.003 163.356 -18.221  1.00 74.77       IS9
ATOM  42439  O   GLU I  48     240.080 164.115 -19.183  1.00 74.77       IS9
ATOM  42440  N   PRO I  49     239.197 163.619 -17.177  1.00100.22       IS9
ATOM  42441  CD  PRO I  49     239.236 163.051 -15.819  1.00 64.01       IS9
ATOM  42442  CA  PRO I  49     238.369 164.829 -17.199  1.00100.22       IS9
ATOM  42443  CB  PRO I  49     237.830 164.909 -15.772  1.00 64.01       IS9
ATOM  42444  CG  PRO I  49     238.906 164.252 -14.973  1.00 64.01       IS9
ATOM  42445  C   PRO I  49     239.129 166.080 -17.604  1.00100.22       IS9
ATOM  42446  O   PRO I  49     238.592 166.935 -18.309  1.00100.22       IS9
ATOM  42447  N   LEU I  50     240.381 166.185 -17.168  1.00 44.21       IS9
ATOM  42448  CA  LEU I  50     241.184 167.350 -17.506  1.00 44.21       IS9
ATOM  42449  CB  LEU I  50     242.589 167.216 -16.927  1.00 58.89       IS9
ATOM  42450  CG  LEU I  50     242.569 167.257 -15.400  1.00 58.89       IS9
ATOM  42451  CD1 LEU I  50     243.945 167.001 -14.836  1.00 58.89       IS9
ATOM  42452  CD2 LEU I  50     242.061 168.609 -14.958  1.00 58.89       IS9
ATOM  42453  C   LEU I  50     241.236 167.445 -19.008  1.00 44.21       IS9
ATOM  42454  O   LEU I  50     240.748 168.410 -19.589  1.00 44.21       IS9
ATOM  42455  N   ARG I  51     241.808 166.415 -19.624  1.00 59.86       IS9
ATOM  42456  CA  ARG I  51     241.940 166.328 -21.075  1.00 59.86       IS9
ATOM  42457  CB  ARG I  51     242.263 164.888 -21.477  1.00180.02       IS9
ATOM  42458  CG  ARG I  51     243.475 164.315 -20.768  1.00180.02       IS9
ATOM  42459  CD  ARG I  51     243.299 162.832 -20.490  1.00180.02       IS9
ATOM  42460  NE  ARG I  51     244.364 162.311 -19.638  1.00180.02       IS9
ATOM  42461  CZ  ARG I  51     244.318 161.142 -19.008  1.00180.02       IS9
ATOM  42462  NH1 ARG I  51     243.255 160.356 -19.126  1.00180.02       IS9
ATOM  42463  NH2 ARG I  51     245.338 160.759 -18.251  1.00180.02       IS9
ATOM  42464  C   ARG I  51     240.649 166.766 -21.754  1.00 59.86       IS9
ATOM  42465  O   ARG I  51     240.672 167.402 -22.807  1.00 59.86       IS9
ATOM  42466  N   ALA I  52     239.526 166.425 -21.133  1.00 83.52       IS9
ATOM  42467  CA  ALA I  52     238.214 166.759 -21.661  1.00 83.52       IS9
ATOM  42468  CB  ALA I  52     237.153 166.356 -20.665  1.00 58.61       IS9
ATOM  42469  C   ALA I  52     238.067 168.236 -22.007  1.00 83.52       IS9
ATOM  42470  O   ALA I  52     237.630 168.580 -23.107  1.00 83.52       IS9
ATOM  42471  N   VAL I  53     238.427 169.106 -21.066  1.00131.59       IS9
ATOM  42472  CA  VAL I  53     238.326 170.551 -21.268  1.00131.59       IS9
ATOM  42473  CB  VAL I  53     237.633 171.233 -20.078  1.00 42.58       IS9
ATOM  42474  CG1 VAL I  53     236.145 171.358 -20.348  1.00 42.58       IS9
ATOM  42475  CG2 VAL I  53     237.883 170.433 -18.810  1.00 42.58       IS9
ATOM  42476  C   VAL I  53     239.671 171.232 -21.480  1.00131.59       IS9
ATOM  42477  O   VAL I  53     239.839 172.409 -21.161  1.00131.59       IS9
ATOM  42478  N   ASP I  54     240.626 170.484 -22.018  1.00108.55       IS9
ATOM  42479  CA  ASP I  54     241.955 171.015 -22.283  1.00108.55       IS9
ATOM  42480  CB  ASP I  54     241.859 172.162 -23.292  1.00182.50       IS9
ATOM  42481  CG  ASP I  54     241.162 171.751 -24.575  1.00182.50       IS9
ATOM  42482  OD1 ASP I  54     241.691 170.866 -25.282  1.00182.50       IS9
ATOM  42483  OD2 ASP I  54     240.084 172.310 -24.873  1.00182.50       IS9
ATOM  42484  C   ASP I  54     242.644 171.500 -21.008  1.00108.55       IS9
ATOM  42485  O   ASP I  54     243.309 172.531 -21.007  1.00108.55       IS9
ATOM  42486  N   ALA I  55     242.484 170.754 -19.922  1.00 96.23       IS9
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ATOM  42488  CB  ALA I  55     242.347 170.507 -17.504  1.00123.95      IS9
ATOM  42489  C   ALA I  55     244.564 170.672 -18.643  1.00 96.23      IS9
ATOM  42490  O   ALA I  55     245.296 170.881 -19.612  1.00 96.23      IS9
ATOM  42491  N   LEU I  56     244.980 170.045 -17.545  1.00 93.61      IS9
ATOM  42492  CA  LEU I  56     246.355 169.571 -17.408  1.00 93.61      IS9
ATOM  42493  CB  LEU I  56     246.708 168.604 -18.548  1.00 79.05      IS9
ATOM  42494  CG  LEU I  56     246.534 167.101 -18.293  1.00 79.05      IS9
ATOM  42495  CD1 LEU I  56     246.586 166.345 -19.618  1.00 79.05      IS9
ATOM  42496  CD2 LEU I  56     247.618 166.612 -17.321  1.00 79.05      IS9
ATOM  42497  C   LEU I  56     247.341 170.734 -17.399  1.00 93.61      IS9
ATOM  42498  O   LEU I  56     247.542 171.376 -16.366  1.00 93.61      IS9
ATOM  42499  N   GLY I  57     247.955 170.997 -18.551  1.00108.75      IS9
ATOM  42500  CA  GLY I  57     248.910 172.085 -18.647  1.00108.75      IS9
ATOM  42501  C   GLY I  57     248.408 173.293 -17.889  1.00108.75      IS9
ATOM  42502  O   GLY I  57     249.178 174.015 -17.264  1.00108.75      IS9
ATOM  42503  N   ARG I  58     247.097 173.497 -17.939  1.00114.18      IS9
ATOM  42504  CA  ARG I  58     246.449 174.610 -17.258  1.00114.18      IS9
ATOM  42505  CB  ARG I  58     244.992 174.706 -17.719  1.00125.99      IS9
ATOM  42506  CG  ARG I  58     244.781 175.360 -19.081  1.00125.99      IS9
ATOM  42507  CD  ARG I  58     244.961 176.869 -18.989  1.00125.99      IS9
ATOM  42508  NE  ARG I  58     244.252 177.433 -17.839  1.00125.99      IS9
ATOM  42509  CZ  ARG I  58     242.930 177.462 -17.702  1.00125.99      IS9
ATOM  42510  NH1 ARG I  58     242.146 176.964 -18.649  1.00125.99      IS9
ATOM  42511  NH2 ARG I  58     242.393 177.978 -16.605  1.00125.99      IS9
ATOM  42512  C   ARG I  58     246.494 174.515 -15.725  1.00114.18      IS9
ATOM  42513  O   ARG I  58     246.902 175.461 -15.050  1.00114.18      IS9
ATOM  42514  N   PHE I  59     246.073 173.378 -15.178  1.00 66.24      IS9
ATOM  42515  CA  PHE I  59     246.052 173.193 -13.731  1.00 66.24      IS9
ATOM  42516  CB  PHE I  59     244.737 172.548 -13.284  1.00 81.81      IS9
ATOM  42517  CG  PHE I  59     243.531 173.427 -13.445  1.00 81.81      IS9
ATOM  42518  CD1 PHE I  59     243.107 173.833 -14.708  1.00 81.81      IS9
ATOM  42519  CD2 PHE I  59     242.795 173.821 -12.332  1.00 81.81      IS9
ATOM  42520  CE1 PHE I  59     241.968 174.615 -14.862  1.00 81.81      IS9
ATOM  42521  CE2 PHE I  59     241.656 174.601 -12.474  1.00 81.81      IS9
ATOM  42522  CZ  PHE I  59     241.240 175.000 -13.743  1.00 81.81      IS9
ATOM  42523  C   PHE I  59     247.191 172.346 -13.188  1.00 66.24      IS9
ATOM  42524  O   PHE I  59     248.280 172.291 -13.750  1.00 66.24      IS9
ATOM  42525  N   ASP I  60     246.898 171.684 -12.076  1.00 93.46      IS9
ATOM  42526  CA  ASP I  60     247.825 170.822 -11.359  1.00 93.46      IS9
ATOM  42527  CB  ASP I  60     249.086 171.601 -10.984  1.00190.63      IS9
ATOM  42528  CG  ASP I  60     250.161 170.718 -10.392  1.00190.63      IS9
ATOM  42529  OD1 ASP I  60     249.945 170.174  -9.289  1.00190.63      IS9
ATOM  42530  OD2 ASP I  60     251.222 170.564 -11.033  1.00190.63      IS9
ATOM  42531  C   ASP I  60     247.001 170.492 -10.120  1.00 93.46      IS9
ATOM  42532  O   ASP I  60     246.020 171.195  -9.848  1.00 93.46      IS9
ATOM  42533  N   ALA I  61     247.362 169.454  -9.363  1.00 66.50      IS9
ATOM  42534  CA  ALA I  61     246.538 169.133  -8.200  1.00 66.50      IS9
ATOM  42535  CB  ALA I  61     245.266 168.477  -8.667  1.00  9.64      IS9
ATOM  42536  C   ALA I  61     247.094 168.332  -7.036  1.00 66.50      IS9
ATOM  42537  O   ALA I  61     247.914 167.425  -7.192  1.00 66.50      IS9
ATOM  42538  N   TYR I  62     246.591 168.694  -5.859  1.00 69.89      IS9
ATOM  42539  CA  TYR I  62     246.928 168.054  -4.599  1.00 69.89      IS9
ATOM  42540  CB  TYR I  62     247.038 169.096  -3.486  1.00 61.90      IS9
ATOM  42541  CG  TYR I  62     247.238 168.517  -2.102  1.00 61.90      IS9
ATOM  42542  CD1 TYR I  62     248.315 167.679  -1.817  1.00 61.90      IS9
ATOM  42543  CE1 TYR I  62     248.511 167.164  -0.531  1.00 61.90      IS9
ATOM  42544  CD2 TYR I  62     246.359 168.825  -1.071  1.00 61.90      IS9
ATOM  42545  CE2 TYR I  62     246.543 168.318   0.216  1.00 61.90      IS9
ATOM  42546  CZ  TYR I  62     247.619 167.489   0.481  1.00 61.90      IS9
ATOM  42547  OH  TYR I  62     247.786 166.985   1.755  1.00 61.90      IS9
ATOM  42548  C   TYR I  62     245.729 167.163  -4.351  1.00 69.89      IS9
ATOM  42549  O   TYR I  62     244.602 167.657  -4.244  1.00 69.89      IS9
ATOM  42550  N   ILE I  63     245.971 165.856  -4.269  1.00 73.33      IS9
ATOM  42551  CA  ILE I  63     244.894 164.894  -4.075  1.00 73.33      IS9
ATOM  42552  CB  ILE I  63     244.772 163.963  -5.304  1.00 78.57      IS9
ATOM  42553  CG2 ILE I  63     243.684 162.936  -5.072  1.00 78.57      IS9
ATOM  42554  CG1 ILE I  63     244.453 164.794  -6.551  1.00 78.57      IS9
ATOM  42555  CD1 ILE I  63     244.356 163.992  -7.823  1.00 78.57      IS9
ATOM  42556  C   ILE I  63     245.016 164.034  -2.826  1.00 73.33      IS9
ATOM  42557  O   ILE I  63     246.078 163.481  -2.535  1.00 73.33      IS9
ATOM  42558  N   THR I  64     243.904 163.934  -2.100  1.00 86.59      IS9
ATOM  42559  CA  THR I  64     243.812 163.140  -0.876  1.00 86.59      IS9
ATOM  42560  CB  THR I  64     243.312 163.974   0.315  1.00186.45      IS9
ATOM  42561  OG1 THR I  64     244.266 164.996   0.622  1.00186.45      IS9
ATOM  42562  CG2 THR I  64     243.109 163.085   1.536  1.00186.45      IS9
ATOM  42563  C   THR I  64     242.807 162.026  -1.113  1.00 86.59      IS9
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ATOM  42564  O   THR I  64     241.595 162.240  -1.046  1.00 86.59      IS9
ATOM  42565  N   VAL I  65     243.321 160.835  -1.383  1.00 57.43      IS9
ATOM  42566  CA  VAL I  65     242.480 159.684  -1.657  1.00 57.43      IS9
ATOM  42567  CB  VAL I  65     242.752 159.155  -3.088  1.00 84.16      IS9
ATOM  42568  CG1 VAL I  65     244.201 158.711  -3.224  1.00 84.16      IS9
ATOM  42569  CG2 VAL I  65     241.822 158.021  -3.406  1.00 84.16      IS9
ATOM  42570  C   VAL I  65     242.755 158.583  -0.645  1.00 57.43      IS9
ATOM  42571  O   VAL I  65     243.866 158.070  -0.576  1.00 57.43      IS9
ATOM  42572  N   ARG I  66     241.751 158.221   0.143  1.00 85.32      IS9
ATOM  42573  CA  ARG I  66     241.946 157.172   1.135  1.00 85.32      IS9
ATOM  42574  CB  ARG I  66     242.334 157.798   2.478  1.00175.10      IS9
ATOM  42575  CG  ARG I  66     242.858 156.806   3.502  1.00175.10      IS9
ATOM  42576  CD  ARG I  66     241.742 156.251   4.364  1.00175.10      IS9
ATOM  42577  NE  ARG I  66     241.183 157.275   5.242  1.00175.10      IS9
ATOM  42578  CZ  ARG I  66     241.867 157.893   6.200  1.00175.10      IS9
ATOM  42579  NH1 ARG I  66     243.142 157.594   6.410  1.00175.10      IS9
ATOM  42580  NH2 ARG I  66     241.274 158.813   6.949  1.00175.10      IS9
ATOM  42581  C   ARG I  66     240.721 156.276   1.296  1.00 85.32      IS9
ATOM  42582  O   ARG I  66     239.588 156.763   1.379  1.00 85.32      IS9
ATOM  42583  N   GLY I  67     240.959 154.963   1.317  1.00 89.89      IS9
ATOM  42584  CA  GLY I  67     239.875 154.004   1.480  1.00 89.89      IS9
ATOM  42585  C   GLY I  67     239.413 153.300   0.217  1.00 89.89      IS9
ATOM  42586  O   GLY I  67     239.049 153.942  -0.764  1.00 89.89      IS9
ATOM  42587  N   GLY I  68     239.410 151.974   0.250  1.00 58.18      IS9
ATOM  42588  CA  GLY I  68     238.991 151.203  -0.905  1.00 58.18      IS9
ATOM  42589  C   GLY I  68     240.110 150.453  -1.616  1.00 58.18      IS9
ATOM  42590  O   GLY I  68     240.801 149.620  -1.026  1.00 58.18      IS9
ATOM  42591  N   GLY I  69     240.282 150.744  -2.901  1.00 58.31      IS9
ATOM  42592  CA  GLY I  69     241.312 150.095  -3.691  1.00 58.31      IS9
ATOM  42593  C   GLY I  69     241.758 151.012  -4.811  1.00 58.31      IS9
ATOM  42594  O   GLY I  69     240.951 151.760  -5.360  1.00 58.31      IS9
ATOM  42595  N   LYS I  70     243.041 150.944  -5.149  1.00 63.06      IS9
ATOM  42596  CA  LYS I  70     243.644 151.779  -6.187  1.00 63.06      IS9
ATOM  42597  CB  LYS I  70     244.902 151.100  -6.719  1.00 77.97      IS9
ATOM  42598  CG  LYS I  70     245.925 150.767  -5.655  1.00 77.97      IS9
ATOM  42599  CD  LYS I  70     246.768 151.968  -5.279  1.00 77.97      IS9
ATOM  42600  CE  LYS I  70     247.872 151.533  -4.327  1.00 77.97      IS9
ATOM  42601  NZ  LYS I  70     248.971 152.528  -4.204  1.00 77.97      IS9
ATOM  42602  C   LYS I  70     242.714 152.102  -7.349  1.00 63.06      IS9
ATOM  42603  O   LYS I  70     242.644 153.249  -7.795  1.00 63.06      IS9
ATOM  42604  N   SER I  71     242.009 151.085  -7.836  1.00 66.58      IS9
ATOM  42605  CA  SER I  71     241.079 151.253  -8.947  1.00 66.58      IS9
ATOM  42606  CB  SER I  71     240.535 149.893  -9.383  1.00 81.45      IS9
ATOM  42607  OG  SER I  71     239.682 150.031 -10.501  1.00 81.45      IS9
ATOM  42608  C   SER I  71     239.927 152.174  -8.541  1.00 66.58      IS9
ATOM  42609  O   SER I  71     239.593 153.117  -9.257  1.00 66.58      IS9
ATOM  42610  N   GLY I  72     239.319 151.897  -7.390  1.00 93.63      IS9
ATOM  42611  CA  GLY I  72     238.227 152.734  -6.925  1.00 93.63      IS9
ATOM  42612  C   GLY I  72     238.720 154.156  -6.746  1.00 93.63      IS9
ATOM  42613  O   GLY I  72     238.072 155.124  -7.147  1.00 93.63      IS9
ATOM  42614  N   GLN I  73     239.891 154.269  -6.136  1.00 63.08      IS9
ATOM  42615  CA  GLN I  73     240.522 155.550  -5.892  1.00 63.08      IS9
ATOM  42616  CB  GLN I  73     241.887 155.317  -5.248  1.00 42.28      IS9
ATOM  42617  CG  GLN I  73     241.844 154.310  -4.104  1.00 42.28      IS9
ATOM  42618  CD  GLN I  73     243.011 154.447  -3.149  1.00 42.28      IS9
ATOM  42619  OE1 GLN I  73     244.163 154.432  -3.560  1.00 42.28      IS9
ATOM  42620  NE2 GLN I  73     242.714 154.578  -1.863  1.00 42.28      IS9
ATOM  42621  C   GLN I  73     240.680 156.322  -7.202  1.00 63.08      IS9
ATOM  42622  O   GLN I  73     240.395 157.521  -7.261  1.00 63.08      IS9
ATOM  42623  N   ILE I  74     241.136 155.628  -8.247  1.00 47.46      IS9
ATOM  42624  CA  ILE I  74     241.331 156.236  -9.570  1.00 47.46      IS9
ATOM  42625  CB  ILE I  74     241.786 155.184 -10.637  1.00 40.77      IS9
ATOM  42626  CG2 ILE I  74     241.694 155.781 -12.055  1.00 40.77      IS9
ATOM  42627  CG1 ILE I  74     243.204 154.693 -10.314  1.00 40.77      IS9
ATOM  42628  CD1 ILE I  74     243.752 153.684 -11.290  1.00 40.77      IS9
ATOM  42629  C   ILE I  74     240.029 156.853 -10.046  1.00 47.46      IS9
ATOM  42630  O   ILE I  74     240.018 157.931 -10.650  1.00 47.46      IS9
ATOM  42631  N   ASP I  75     238.934 156.150  -9.773  1.00 59.29      IS9
ATOM  42632  CA  ASP I  75     237.613 156.605 -10.168  1.00 59.29      IS9
ATOM  42633  CB  ASP I  75     236.592 155.478  -9.991  1.00201.11      IS9
ATOM  42634  CG  ASP I  75     236.851 154.304 -10.921  1.00201.11      IS9
ATOM  42635  OD1 ASP I  75     236.854 154.508 -12.154  1.00201.11      IS9
ATOM  42636  OD2 ASP I  75     237.052 153.177 -10.420  1.00201.11      IS9
ATOM  42637  C   ASP I  75     237.209 157.822  -9.349  1.00 59.29      IS9
ATOM  42638  O   ASP I  75     236.745 158.819  -9.900  1.00 59.29      IS9
ATOM  42639  N   ALA I  76     237.393 157.742  -8.035  1.00 58.99      IS9
ATOM  42640  CA  ALA I  76     237.045 158.853  -7.156  1.00 58.99      IS9
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ATOM  42641  CB  ALA I  76     237.427 158.524  -5.723  1.00100.93      IS9
ATOM  42642  C   ALA I  76     237.802 160.081  -7.634  1.00 58.99      IS9
ATOM  42643  O   ALA I  76     237.212 161.114  -7.968  1.00 58.99      IS9
ATOM  42644  N   ILE I  77     239.122 159.944  -7.660  1.00 41.01      IS9
ATOM  42645  CA  ILE I  77     240.010 160.998  -8.111  1.00 41.01      IS9
ATOM  42646  CB  ILE I  77     241.422 160.417  -8.343  1.00 33.11      IS9
ATOM  42647  CG2 ILE I  77     242.217 161.279  -9.332  1.00 33.11      IS9
ATOM  42648  CG1 ILE I  77     242.104 160.227  -6.987  1.00 33.11      IS9
ATOM  42649  CD1 ILE I  77     243.562 159.885  -7.084  1.00 33.11      IS9
ATOM  42650  C   ILE I  77     239.459 161.565  -9.411  1.00 41.01      IS9
ATOM  42651  O   ILE I  77     239.396 162.783  -9.611  1.00 41.01      IS9
ATOM  42652  N   LYS I  78     239.046 160.660 -10.287  1.00 41.52      IS9
ATOM  42653  CA  LYS I  78     238.504 161.041 -11.573  1.00 41.52      IS9
ATOM  42654  CB  LYS I  78     238.097 159.782 -12.345  1.00117.16      IS9
ATOM  42655  CG  LYS I  78     238.174 159.923 -13.850  1.00117.16      IS9
ATOM  42656  CD  LYS I  78     237.097 160.847 -14.387  1.00117.16      IS9
ATOM  42657  CE  LYS I  78     235.737 160.178 -14.339  1.00117.16      IS9
ATOM  42658  NZ  LYS I  78     235.727 158.911 -15.130  1.00117.16      IS9
ATOM  42659  C   LYS I  78     237.304 161.951 -11.346  1.00 41.52      IS9
ATOM  42660  O   LYS I  78     237.155 162.984 -12.005  1.00 41.52      IS9
ATOM  42661  N   LEU I  79     236.458 161.570 -10.394  1.00 84.05      IS9
ATOM  42662  CA  LEU I  79     235.263 162.343 -10.086  1.00 84.05      IS9
ATOM  42663  CB  LEU I  79     234.390 161.599  -9.067  1.00120.78      IS9
ATOM  42664  CG  LEU I  79     232.941 162.063  -8.834  1.00120.78      IS9
ATOM  42665  CD1 LEU I  79     232.928 163.449  -8.243  1.00120.78      IS9
ATOM  42666  CD2 LEU I  79     232.163 162.052 -10.140  1.00120.78      IS9
ATOM  42667  C   LEU I  79     235.654 163.703  -9.543  1.00 84.05      IS9
ATOM  42668  O   LEU I  79     235.212 164.729 -10.058  1.00 84.05      IS9
ATOM  42669  N   GLY I  80     236.480 163.711  -8.502  1.00 67.15      IS9
ATOM  42670  CA  GLY I  80     236.914 164.971  -7.924  1.00 67.15      IS9
ATOM  42671  C   GLY I  80     237.360 165.946  -8.997  1.00 67.15      IS9
ATOM  42672  O   GLY I  80     236.768 167.019  -9.157  1.00 67.15      IS9
ATOM  42673  N   ILE I  81     238.402 165.567  -9.735  1.00 41.65      IS9
ATOM  42674  CA  ILE I  81     238.931 166.398 -10.809  1.00 41.65      IS9
ATOM  42675  CB  ILE I  81     239.886 165.587 -11.733  1.00 63.66      IS9
ATOM  42676  CG2 ILE I  81     240.404 166.463 -12.877  1.00 63.66      IS9
ATOM  42677  CG1 ILE I  81     241.058 165.047 -10.914  1.00 63.66      IS9
ATOM  42678  CD1 ILE I  81     242.097 164.311 -11.734  1.00 63.66      IS9
ATOM  42679  C   ILE I  81     237.765 166.922 -11.638  1.00 41.65      IS9
ATOM  42680  O   ILE I  81     237.755 168.077 -12.073  1.00 41.65      IS9
ATOM  42681  N   ALA I  82     236.779 166.058 -11.848  1.00 45.08      IS9
ATOM  42682  CA  ALA I  82     235.610 166.421 -12.624  1.00 45.08      IS9
ATOM  42683  CB  ALA I  82     234.716 165.200 -12.806  1.00 52.99      IS9
ATOM  42684  C   ALA I  82     234.863 167.537 -11.904  1.00 45.08      IS9
ATOM  42685  O   ALA I  82     234.668 168.620 -12.452  1.00 45.08      IS9
ATOM  42686  N   ARG I  83     234.458 167.265 -10.667  1.00 83.43      IS9
ATOM  42687  CA  ARG I  83     233.735 168.238  -9.857  1.00 83.43      IS9
ATOM  42688  CB  ARG I  83     233.433 167.659  -8.477  1.00 96.79      IS9
ATOM  42689  CG  ARG I  83     232.204 166.773  -8.407  1.00 96.79      IS9
ATOM  42690  CD  ARG I  83     232.046 166.239  -6.994  1.00 96.79      IS9
ATOM  42691  NE  ARG I  83     230.741 165.632  -6.756  1.00 96.79      IS9
ATOM  42692  CZ  ARG I  83     230.417 164.997  -5.635  1.00 96.79      IS9
ATOM  42693  NH1 ARG I  83     231.306 164.882  -4.658  1.00 96.79      IS9
ATOM  42694  NH2 ARG I  83     229.201 164.495  -5.483  1.00 96.79      IS9
ATOM  42695  C   ARG I  83     234.521 169.525  -9.687  1.00 83.43      IS9
ATOM  42696  O   ARG I  83     234.058 170.601 -10.065  1.00 83.43      IS9
ATOM  42697  N   ALA I  84     235.708 169.409  -9.101  1.00 71.63      IS9
ATOM  42698  CA  ALA I  84     236.557 170.569  -8.882  1.00 71.63      IS9
ATOM  42699  CB  ALA I  84     237.935 170.128  -8.426  1.00105.35      IS9
ATOM  42700  C   ALA I  84     236.663 171.388 -10.162  1.00 71.63      IS9
ATOM  42701  O   ALA I  84     236.685 172.614 -10.123  1.00 71.63      IS9
ATOM  42702  N   LEU I  85     236.726 170.708 -11.299  1.00 56.42      IS9
ATOM  42703  CA  LEU I  85     236.818 171.401 -12.572  1.00 56.42      IS9
ATOM  42704  CB  LEU I  85     236.917 170.398 -13.727  1.00 87.61      IS9
ATOM  42705  CG  LEU I  85     238.208 170.457 -14.553  1.00 87.61      IS9
ATOM  42706  CD1 LEU I  85     239.406 170.245 -13.652  1.00 87.61      IS9
ATOM  42707  CD2 LEU I  85     238.177 169.404 -15.634  1.00 87.61      IS9
ATOM  42708  C   LEU I  85     235.604 172.300 -12.760  1.00 56.42      IS9
ATOM  42709  O   LEU I  85     235.731 173.423 -13.231  1.00 56.42      IS9
ATOM  42710  N   VAL I  86     234.425 171.815 -12.393  1.00 82.36      IS9
ATOM  42711  CA  VAL I  86     233.232 172.636 -12.534  1.00 82.36      IS9
ATOM  42712  CB  VAL I  86     231.951 171.814 -12.313  1.00113.65      IS9
ATOM  42713  CG1 VAL I  86     230.738 172.739 -12.203  1.00113.65      IS9
ATOM  42714  CG2 VAL I  86     231.768 170.854 -13.479  1.00113.65      IS9
ATOM  42715  C   VAL I  86     233.282 173.799 -11.548  1.00 82.36      IS9
ATOM  42716  O   VAL I  86     232.680 174.847 -11.785  1.00 82.36      IS9
ATOM  42717  N   GLN I  87     233.996 173.614 -10.442  1.00 96.45      IS9
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ATOM  42718  CA  GLN I  87     234.137 174.685  -9.465  1.00 96.45       IS9
ATOM  42719  CB  GLN I  87     235.100 174.278  -8.349  1.00176.03       IS9
ATOM  42720  CG  GLN I  87     234.539 173.263  -7.379  1.00176.03       IS9
ATOM  42721  CD  GLN I  87     233.470 173.846  -6.478  1.00176.03       IS9
ATOM  42722  OE1 GLN I  87     233.732 174.760  -5.694  1.00176.03       IS9
ATOM  42723  NE2 GLN I  87     232.254 173.320  -6.584  1.00176.03       IS9
ATOM  42724  C   GLN I  87     234.718 175.860 -10.236  1.00 96.45       IS9
ATOM  42725  O   GLN I  87     234.104 176.922 -10.332  1.00 96.45       IS9
ATOM  42726  N   TYR I  88     235.904 175.647 -10.798  1.00107.05       IS9
ATOM  42727  CA  TYR I  88     236.592 176.660 -11.590  1.00107.05       IS9
ATOM  42728  CB  TYR I  88     237.731 176.012 -12.370  1.00103.91       IS9
ATOM  42729  CG  TYR I  88     238.462 176.965 -13.270  1.00103.91       IS9
ATOM  42730  CD1 TYR I  88     239.269 177.965 -12.744  1.00103.91       IS9
ATOM  42731  CE1 TYR I  88     239.942 178.853 -13.568  1.00103.91       IS9
ATOM  42732  CD2 TYR I  88     238.340 176.872 -14.651  1.00103.91       IS9
ATOM  42733  CE2 TYR I  88     239.008 177.755 -15.492  1.00103.91       IS9
ATOM  42734  CZ  TYR I  88     239.809 178.745 -14.943  1.00103.91       IS9
ATOM  42735  OH  TYR I  88     240.475 179.622 -15.770  1.00103.91       IS9
ATOM  42736  C   TYR I  88     235.617 177.316 -12.557  1.00107.05       IS9
ATOM  42737  O   TYR I  88     235.109 178.407 -12.308  1.00107.05       IS9
ATOM  42738  N   ASN I  89     235.362 176.643 -13.668  1.00 75.94       IS9
ATOM  42739  CA  ASN I  89     234.430 177.155 -14.651  1.00 75.94       IS9
ATOM  42740  CB  ASN I  89     235.008 177.029 -16.057  1.00 84.00       IS9
ATOM  42741  CG  ASN I  89     234.141 177.704 -17.101  1.00 84.00       IS9
ATOM  42742  OD1 ASN I  89     232.914 177.588 -17.078  1.00 84.00       IS9
ATOM  42743  ND2 ASN I  89     234.777 178.409 -18.031  1.00 84.00       IS9
ATOM  42744  C   ASN I  89     233.151 176.334 -14.558  1.00 75.94       IS9
ATOM  42745  O   ASN I  89     233.180 175.105 -14.653  1.00 75.94       IS9
ATOM  42746  N   PRO I  90     232.008 177.001 -14.361  1.00 89.70       IS9
ATOM  42747  CD  PRO I  90     231.780 178.453 -14.276  1.00167.33       IS9
ATOM  42748  CA  PRO I  90     230.747 176.270 -14.266  1.00 89.70       IS9
ATOM  42749  CB  PRO I  90     229.764 177.347 -13.827  1.00167.33       IS9
ATOM  42750  CG  PRO I  90     230.288 178.560 -14.526  1.00167.33       IS9
ATOM  42751  C   PRO I  90     230.385 175.667 -15.617  1.00 89.70       IS9
ATOM  42752  O   PRO I  90     229.947 174.523 -15.693  1.00 89.70       IS9
ATOM  42753  N   ASP I  91     230.595 176.444 -16.677  1.00104.51       IS9
ATOM  42754  CA  ASP I  91     230.283 176.024 -18.042  1.00104.51       IS9
ATOM  42755  CB  ASP I  91     230.675 177.129 -19.027  1.00188.00       IS9
ATOM  42756  CG  ASP I  91     229.932 178.427 -18.772  1.00188.00       IS9
ATOM  42757  OD1 ASP I  91     230.079 178.992 -17.667  1.00188.00       IS9
ATOM  42758  OD2 ASP I  91     229.201 178.881 -19.677  1.00188.00       IS9
ATOM  42759  C   ASP I  91     230.927 174.707 -18.476  1.00104.51       IS9
ATOM  42760  O   ASP I  91     230.692 174.240 -19.594  1.00104.51       IS9
ATOM  42761  N   TYR I  92     231.737 174.112 -17.602  1.00125.37       IS9
ATOM  42762  CA  TYR I  92     232.389 172.839 -17.907  1.00125.37       IS9
ATOM  42763  CB  TYR I  92     233.512 172.555 -16.902  1.00123.95       IS9
ATOM  42764  CG  TYR I  92     234.800 173.299 -17.192  1.00123.95       IS9
ATOM  42765  CD1 TYR I  92     235.867 173.258 -16.295  1.00123.95       IS9
ATOM  42766  CE1 TYR I  92     237.053 173.946 -16.556  1.00123.95       IS9
ATOM  42767  CD2 TYR I  92     234.952 174.045 -18.364  1.00123.95       IS9
ATOM  42768  CE2 TYR I  92     236.134 174.734 -18.633  1.00123.95       IS9
ATOM  42769  CZ  TYR I  92     237.178 174.681 -17.725  1.00123.95       IS9
ATOM  42770  OH  TYR I  92     238.338 175.374 -17.979  1.00123.95       IS9
ATOM  42771  C   TYR I  92     231.375 171.700 -17.890  1.00125.37       IS9
ATOM  42772  O   TYR I  92     231.610 170.633 -18.458  1.00125.37       IS9
ATOM  42773  N   ARG I  93     230.250 171.933 -17.223  1.00 89.06       IS9
ATOM  42774  CA  ARG I  93     229.193 170.941 -17.161  1.00 89.06       IS9
ATOM  42775  CB  ARG I  93     227.969 171.500 -16.436  1.00167.54       IS9
ATOM  42776  CG  ARG I  93     228.160 171.672 -14.946  1.00167.54       IS9
ATOM  42777  CD  ARG I  93     226.972 172.372 -14.326  1.00167.54       IS9
ATOM  42778  NE  ARG I  93     227.003 172.301 -12.870  1.00167.54       IS9
ATOM  42779  CZ  ARG I  93     226.194 172.990 -12.073  1.00167.54       IS9
ATOM  42780  NH1 ARG I  93     225.289 173.808 -12.593  1.00167.54       IS9
ATOM  42781  NH2 ARG I  93     226.282 172.854 -10.757  1.00167.54       IS9
ATOM  42782  C   ARG I  93     228.838 170.631 -18.596  1.00 89.06       IS9
ATOM  42783  O   ARG I  93     228.761 169.476 -18.985  1.00 89.06       IS9
ATOM  42784  N   ALA I  94     228.637 171.674 -19.390  1.00104.04       IS9
ATOM  42785  CA  ALA I  94     228.299 171.491 -20.791  1.00104.04       IS9
ATOM  42786  CB  ALA I  94     228.204 172.838 -21.480  1.00 77.40       IS9
ATOM  42787  C   ALA I  94     229.361 170.629 -21.468  1.00104.04       IS9
ATOM  42788  O   ALA I  94     229.136 170.080 -22.545  1.00104.04       IS9
ATOM  42789  N   LYS I  95     230.520 170.508 -20.831  1.00 75.19       IS9
ATOM  42790  CA  LYS I  95     231.605 169.711 -21.383  1.00 75.19       IS9
ATOM  42791  CB  LYS I  95     232.934 170.447 -21.210  1.00188.78       IS9
ATOM  42792  CG  LYS I  95     233.203 171.523 -22.244  1.00188.78       IS9
ATOM  42793  CD  LYS I  95     233.534 170.908 -23.592  1.00188.78       IS9
ATOM  42794  CE  LYS I  95     233.982 171.968 -24.585  1.00188.78       IS9
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ATOM  42795  NZ  LYS I  95     234.398 171.371 -25.885  1.00188.78      IS9
ATOM  42796  C   LYS I  95     231.711 168.336 -20.738  1.00 75.19      IS9
ATOM  42797  O   LYS I  95     231.345 167.327 -21.338  1.00 75.19      IS9
ATOM  42798  N   LEU I  96     232.213 168.316 -19.508  1.00 77.11      IS9
ATOM  42799  CA  LEU I  96     232.422 167.092 -18.746  1.00 77.11      IS9
ATOM  42800  CB  LEU I  96     233.066 167.438 -17.409  1.00 86.39      IS9
ATOM  42801  CG  LEU I  96     234.552 167.777 -17.432  1.00 86.39      IS9
ATOM  42802  CD1 LEU I  96     234.827 168.864 -18.453  1.00 86.39      IS9
ATOM  42803  CD2 LEU I  96     234.983 168.204 -16.035  1.00 86.39      IS9
ATOM  42804  C   LEU I  96     231.221 166.183 -18.486  1.00 77.11      IS9
ATOM  42805  O   LEU I  96     231.351 164.957 -18.539  1.00 77.11      IS9
ATOM  42806  N   LYS I  97     230.066 166.771 -18.180  1.00101.20      IS9
ATOM  42807  CA  LYS I  97     228.860 165.990 -17.893  1.00101.20      IS9
ATOM  42808  CB  LYS I  97     227.726 166.915 -17.430  1.00196.10      IS9
ATOM  42809  CG  LYS I  97     227.943 167.517 -16.046  1.00196.10      IS9
ATOM  42810  CD  LYS I  97     226.782 168.408 -15.617  1.00196.10      IS9
ATOM  42811  CE  LYS I  97     226.928 168.850 -14.167  1.00196.10      IS9
ATOM  42812  NZ  LYS I  97     225.823 169.747 -13.735  1.00196.10      IS9
ATOM  42813  C   LYS I  97     228.376 165.128 -19.058  1.00101.20      IS9
ATOM  42814  O   LYS I  97     228.014 163.970 -18.861  1.00101.20      IS9
ATOM  42815  N   PRO I  98     228.353 165.683 -20.283  1.00 63.14      IS9
ATOM  42816  CD  PRO I  98     228.561 167.101 -20.622  1.00145.69      IS9
ATOM  42817  CA  PRO I  98     227.909 164.942 -21.467  1.00 63.14      IS9
ATOM  42818  CB  PRO I  98     228.133 165.939 -22.595  1.00145.69      IS9
ATOM  42819  CG  PRO I  98     227.817 167.232 -21.931  1.00145.69      IS9
ATOM  42820  C   PRO I  98     228.659 163.634 -21.692  1.00 63.14      IS9
ATOM  42821  O   PRO I  98     228.290 162.848 -22.562  1.00 63.14      IS9
ATOM  42822  N   LEU I  99     229.713 163.410 -20.912  1.00 77.64      IS9
ATOM  42823  CA  LEU I  99     230.511 162.186 -21.002  1.00 77.64      IS9
ATOM  42824  CB  LEU I  99     231.980 162.515 -21.274  1.00103.65      IS9
ATOM  42825  CG  LEU I  99     232.269 163.081 -22.665  1.00103.65      IS9
ATOM  42826  CD1 LEU I  99     231.711 162.116 -23.702  1.00103.65      IS9
ATOM  42827  CD2 LEU I  99     231.641 164.465 -22.834  1.00103.65      IS9
ATOM  42828  C   LEU I  99     230.383 161.428 -19.689  1.00 77.64      IS9
ATOM  42829  O   LEU I  99     230.978 160.367 -19.508  1.00 77.64      IS9
ATOM  42830  N   GLY I 100     229.604 162.005 -18.776  1.00 81.50      IS9
ATOM  42831  CA  GLY I 100     229.348 161.399 -17.483  1.00 81.50      IS9
ATOM  42832  C   GLY I 100     230.518 161.265 -16.534  1.00 81.50      IS9
ATOM  42833  O   GLY I 100     230.709 160.200 -15.940  1.00 81.50      IS9
ATOM  42834  N   PHE I 101     231.306 162.329 -16.386  1.00 64.78      IS9
ATOM  42835  CA  PHE I 101     232.445 162.296 -15.470  1.00 64.78      IS9
ATOM  42836  CB  PHE I 101     233.566 163.229 -15.937  1.00 79.33      IS9
ATOM  42837  CG  PHE I 101     234.290 162.751 -17.167  1.00 79.33      IS9
ATOM  42838  CD1 PHE I 101     235.340 163.490 -17.696  1.00 79.33      IS9
ATOM  42839  CD2 PHE I 101     233.918 161.574 -17.805  1.00 79.33      IS9
ATOM  42840  CE1 PHE I 101     236.007 163.068 -18.840  1.00 79.33      IS9
ATOM  42841  CE2 PHE I 101     234.577 161.146 -18.949  1.00 79.33      IS9
ATOM  42842  CZ  PHE I 101     235.623 161.894 -19.468  1.00 79.33      IS9
ATOM  42843  C   PHE I 101     231.925 162.756 -14.128  1.00 64.78      IS9
ATOM  42844  O   PHE I 101     232.481 162.430 -13.079  1.00 64.78      IS9
ATOM  42845  N   LEU I 102     230.843 163.524 -14.184  1.00 93.22      IS9
ATOM  42846  CA  LEU I 102     230.198 164.040 -12.991  1.00 93.22      IS9
ATOM  42847  CB  LEU I 102     229.695 165.463 -13.231  1.00115.82      IS9
ATOM  42848  CG  LEU I 102     230.763 166.544 -13.395  1.00115.82      IS9
ATOM  42849  CD1 LEU I 102     230.093 167.858 -13.727  1.00115.82      IS9
ATOM  42850  CD2 LEU I 102     231.578 166.674 -12.114  1.00115.82      IS9
ATOM  42851  C   LEU I 102     229.024 163.139 -12.674  1.00 93.22      IS9
ATOM  42852  O   LEU I 102     227.892 163.606 -12.585  1.00 93.22      IS9
ATOM  42853  N   THR I 103     229.297 161.848 -12.508  1.00 52.58      IS9
ATOM  42854  CA  THR I 103     228.242 160.877 -12.219  1.00 52.58      IS9
ATOM  42855  CB  THR I 103     227.725 160.202 -13.511  1.00 68.65      IS9
ATOM  42856  OG1 THR I 103     227.349 161.200 -14.473  1.00 68.65      IS9
ATOM  42857  CG2 THR I 103     226.527 159.340 -13.196  1.00 68.65      IS9
ATOM  42858  C   THR I 103     228.730 159.775 -11.293  1.00 52.58      IS9
ATOM  42859  O   THR I 103     229.349 158.818 -11.745  1.00 52.58      IS9
ATOM  42860  N   ARG I 104     228.445 159.905 -10.002  1.00 95.15      IS9
ATOM  42861  CA  ARG I 104     228.871 158.907  -9.026  1.00 95.15      IS9
ATOM  42862  CB  ARG I 104     228.301 159.267  -7.654  1.00 68.08      IS9
ATOM  42863  CG  ARG I 104     229.141 158.856  -6.451  1.00 68.08      IS9
ATOM  42864  CD  ARG I 104     229.172 157.362  -6.213  1.00 68.08      IS9
ATOM  42865  NE  ARG I 104     229.636 157.061  -4.858  1.00 68.08      IS9
ATOM  42866  CZ  ARG I 104     229.984 155.849  -4.425  1.00 68.08      IS9
ATOM  42867  NH1 ARG I 104     229.928 154.798  -5.238  1.00 68.08      IS9
ATOM  42868  NH2 ARG I 104     230.394 155.686  -3.173  1.00 68.08      IS9
ATOM  42869  C   ARG I 104     228.372 157.527  -9.461  1.00 95.15      IS9
ATOM  42870  O   ARG I 104     227.168 157.274  -9.471  1.00 95.15      IS9
ATOM  42871  N   ASP I 105     229.299 156.646  -9.833  1.00 72.25      IS9
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ATOM  42872  CA  ASP I 105     228.954 155.293 -10.270  1.00 72.25       IS9
ATOM  42873  CB  ASP I 105     230.202 154.587 -10.798  1.00192.64       IS9
ATOM  42874  CG  ASP I 105     229.875 153.319 -11.550  1.00192.64       IS9
ATOM  42875  OD1 ASP I 105     229.252 152.417 -10.954  1.00192.64       IS9
ATOM  42876  OD2 ASP I 105     230.240 153.226 -12.740  1.00192.64       IS9
ATOM  42877  C   ASP I 105     228.359 154.502  -9.098  1.00 72.25       IS9
ATOM  42878  O   ASP I 105     229.084 154.063  -8.195  1.00 72.25       IS9
ATOM  42879  N   ALA I 106     227.038 154.316  -9.134  1.00 54.43       IS9
ATOM  42880  CA  ALA I 106     226.285 153.619  -8.083  1.00 54.43       IS9
ATOM  42881  CB  ALA I 106     224.801 153.659  -8.425  1.00138.23       IS9
ATOM  42882  C   ALA I 106     226.686 152.180  -7.735  1.00 54.43       IS9
ATOM  42883  O   ALA I 106     226.370 151.694  -6.639  1.00 54.43       IS9
ATOM  42884  N   ARG I 107     227.371 151.505  -8.658  1.00 69.58       IS9
ATOM  42885  CA  ARG I 107     227.798 150.121  -8.461  1.00 69.58       IS9
ATOM  42886  CB  ARG I 107     228.593 149.635  -9.666  1.00 79.72       IS9
ATOM  42887  CG  ARG I 107     227.839 149.690 -10.973  1.00 79.72       IS9
ATOM  42888  CD  ARG I 107     228.670 149.065 -12.071  1.00 79.72       IS9
ATOM  42889  NE  ARG I 107     229.974 149.708 -12.152  1.00 79.72       IS9
ATOM  42890  CZ  ARG I 107     231.068 149.113 -12.605  1.00 79.72       IS9
ATOM  42891  NH1 ARG I 107     231.013 147.857 -13.021  1.00 79.72       IS9
ATOM  42892  NH2 ARG I 107     232.217 149.771 -12.632  1.00 79.72       IS9
ATOM  42893  C   ARG I 107     228.633 149.914  -7.209  1.00 69.58       IS9
ATOM  42894  O   ARG I 107     229.651 150.576  -7.010  1.00 69.58       IS9
ATOM  42895  N   VAL I 108     228.199 148.976  -6.378  1.00 41.80       IS9
ATOM  42896  CA  VAL I 108     228.883 148.661  -5.136  1.00 41.80       IS9
ATOM  42897  CB  VAL I 108     228.223 149.377  -3.963  1.00 74.17       IS9
ATOM  42898  CG1 VAL I 108     229.064 149.211  -2.716  1.00 74.17       IS9
ATOM  42899  CG2 VAL I 108     228.010 150.832  -4.301  1.00 74.17       IS9
ATOM  42900  C   VAL I 108     228.748 147.164  -4.893  1.00 41.80       IS9
ATOM  42901  O   VAL I 108     227.837 146.531  -5.436  1.00 41.80       IS9
ATOM  42902  N   VAL I 109     229.644 146.601  -4.081  1.00 47.53       IS9
ATOM  42903  CA  VAL I 109     229.609 145.173  -3.744  1.00 47.53       IS9
ATOM  42904  CB  VAL I 109     230.550 144.845  -2.578  1.00 38.29       IS9
ATOM  42905  CG1 VAL I 109     230.390 143.399  -2.164  1.00 38.29       IS9
ATOM  42906  CG2 VAL I 109     231.970 145.125  -2.969  1.00 38.29       IS9
ATOM  42907  C   VAL I 109     228.210 144.822  -3.286  1.00 47.53       IS9
ATOM  42908  O   VAL I 109     227.515 145.679  -2.748  1.00 47.53       IS9
ATOM  42909  N   GLU I 110     227.806 143.567  -3.475  1.00 68.33       IS9
ATOM  42910  CA  GLU I 110     226.474 143.130  -3.075  1.00 68.33       IS9
ATOM  42911  CB  GLU I 110     225.823 142.332  -4.196  1.00 68.30       IS9
ATOM  42912  CG  GLU I 110     224.396 141.928  -3.915  1.00 68.30       IS9
ATOM  42913  CD  GLU I 110     223.674 141.481  -5.169  1.00 68.30       IS9
ATOM  42914  OE1 GLU I 110     223.757 142.218  -6.180  1.00 68.30       IS9
ATOM  42915  OE2 GLU I 110     223.024 140.408  -5.143  1.00 68.30       IS9
ATOM  42916  C   GLU I 110     226.507 142.291  -1.812  1.00 68.33       IS9
ATOM  42917  O   GLU I 110     227.426 141.501  -1.609  1.00 68.33       IS9
ATOM  42918  N   ARG I 111     225.493 142.469  -0.970  1.00 46.43       IS9
ATOM  42919  CA  ARG I 111     225.386 141.739   0.294  1.00 46.43       IS9
ATOM  42920  CB  ARG I 111     224.071 142.114   0.997  1.00 72.45       IS9
ATOM  42921  CG  ARG I 111     223.818 141.455   2.360  1.00 72.45       IS9
ATOM  42922  CD  ARG I 111     223.389 140.006   2.211  1.00 72.45       IS9
ATOM  42923  NE  ARG I 111     222.578 139.525   3.325  1.00 72.45       IS9
ATOM  42924  CZ  ARG I 111     221.409 140.050   3.679  1.00 72.45       IS9
ATOM  42925  NH1 ARG I 111     220.903 141.083   3.015  1.00 72.45       IS9
ATOM  42926  NH2 ARG I 111     220.734 139.529   4.692  1.00 72.45       IS9
ATOM  42927  C   ARG I 111     225.438 140.241   0.052  1.00 46.43       IS9
ATOM  42928  O   ARG I 111     224.902 139.766  -0.936  1.00 46.43       IS9
ATOM  42929  N   LYS I 112     226.084 139.506   0.951  1.00 17.29       IS9
ATOM  42930  CA  LYS I 112     226.187 138.055   0.830  1.00 17.29       IS9
ATOM  42931  CB  LYS I 112     227.450 137.556   1.525  1.00 40.12       IS9
ATOM  42932  CG  LYS I 112     227.676 136.045   1.451  1.00 40.12       IS9
ATOM  42933  CD  LYS I 112     226.869 135.291   2.471  1.00 40.12       IS9
ATOM  42934  CE  LYS I 112     227.124 133.802   2.397  1.00 40.12       IS9
ATOM  42935  NZ  LYS I 112     226.216 133.047   3.311  1.00 40.12       IS9
ATOM  42936  C   LYS I 112     224.987 137.381   1.469  1.00 17.29       IS9
ATOM  42937  O   LYS I 112     225.023 137.060   2.653  1.00 17.29       IS9
ATOM  42938  N   LYS I 113     223.924 137.183   0.689  1.00 36.74       IS9
ATOM  42939  CA  LYS I 113     222.696 136.540   1.159  1.00 36.74       IS9
ATOM  42940  CB  LYS I 113     221.737 136.331   0.000  1.00 41.73       IS9
ATOM  42941  CG  LYS I 113     221.065 137.584  -0.505  1.00 41.73       IS9
ATOM  42942  CD  LYS I 113     222.039 138.698  -0.758  1.00 41.73       IS9
ATOM  42943  CE  LYS I 113     221.516 139.645  -1.822  1.00 41.73       IS9
ATOM  42944  NZ  LYS I 113     221.468 138.979  -3.171  1.00 41.73       IS9
ATOM  42945  C   LYS I 113     223.055 135.196   1.734  1.00 36.74       IS9
ATOM  42946  O   LYS I 113     224.175 134.732   1.562  1.00 36.74       IS9
ATOM  42947  N   TYR I 114     222.108 134.561   2.411  1.00 37.50       IS9
ATOM  42948  CA  TYR I 114     222.364 133.248   3.013  1.00 37.50       IS9
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ATOM  42949  CB  TYR I 114     221.881 133.209   4.466  1.00 62.83      IS9
ATOM  42950  CG  TYR I 114     220.400 133.478   4.622  1.00 62.83      IS9
ATOM  42951  CD1 TYR I 114     219.491 132.436   4.752  1.00 62.83      IS9
ATOM  42952  CE1 TYR I 114     218.134 132.689   4.886  1.00 62.83      IS9
ATOM  42953  CD2 TYR I 114     219.908 134.783   4.627  1.00 62.83      IS9
ATOM  42954  CE2 TYR I 114     218.558 135.039   4.759  1.00 62.83      IS9
ATOM  42955  CZ  TYR I 114     217.674 133.992   4.892  1.00 62.83      IS9
ATOM  42956  OH  TYR I 114     216.334 134.255   5.060  1.00 62.83      IS9
ATOM  42957  C   TYR I 114     221.665 132.173   2.211  1.00 37.50      IS9
ATOM  42958  O   TYR I 114     220.798 132.466   1.384  1.00 37.50      IS9
ATOM  42959  N   GLY I 115     222.033 130.926   2.461  1.00 44.61      IS9
ATOM  42960  CA  GLY I 115     221.432 129.850   1.704  1.00 44.61      IS9
ATOM  42961  C   GLY I 115     222.097 129.836   0.345  1.00 44.61      IS9
ATOM  42962  O   GLY I 115     221.744 129.059  -0.539  1.00 44.61      IS9
ATOM  42963  N   LYS I 116     223.064 130.731   0.189  1.00 66.35      IS9
ATOM  42964  CA  LYS I 116     223.826 130.855  -1.037  1.00 66.35      IS9
ATOM  42965  CB  LYS I 116     223.336 132.038  -1.863  1.00 31.85      IS9
ATOM  42966  CG  LYS I 116     221.904 131.879  -2.266  1.00 31.85      IS9
ATOM  42967  CD  LYS I 116     221.648 132.561  -3.566  1.00 31.85      IS9
ATOM  42968  CE  LYS I 116     220.521 131.865  -4.319  1.00 31.85      IS9
ATOM  42969  NZ  LYS I 116     220.559 132.209  -5.787  1.00 31.85      IS9
ATOM  42970  C   LYS I 116     225.276 131.049  -0.659  1.00 66.35      IS9
ATOM  42971  O   LYS I 116     225.597 131.310   0.497  1.00 66.35      IS9
ATOM  42972  N   HIS I 117     226.154 130.914  -1.639  1.00 45.56      IS9
ATOM  42973  CA  HIS I 117     227.572 131.053  -1.401  1.00 45.56      IS9
ATOM  42974  CB  HIS I 117     228.336 130.210  -2.405  1.00 47.35      IS9
ATOM  42975  CG  HIS I 117     228.178 128.741  -2.200  1.00 47.35      IS9
ATOM  42976  CD2 HIS I 117     227.554 127.798  -2.944  1.00 47.35      IS9
ATOM  42977  ND1 HIS I 117     228.741 128.075  -1.133  1.00 47.35      IS9
ATOM  42978  CE1 HIS I 117     228.477 126.783  -1.231  1.00 47.35      IS9
ATOM  42979  NE2 HIS I 117     227.758 126.589  -2.322  1.00 47.35      IS9
ATOM  42980  C   HIS I 117     228.057 132.479  -1.498  1.00 45.56      IS9
ATOM  42981  O   HIS I 117     228.959 132.867  -0.770  1.00 45.56      IS9
ATOM  42982  N   LYS I 118     227.447 133.268  -2.375  1.00 44.79      IS9
ATOM  42983  CA  LYS I 118     227.913 134.631  -2.583  1.00 44.79      IS9
ATOM  42984  CB  LYS I 118     229.030 134.609  -3.637  1.00 37.05      IS9
ATOM  42985  CG  LYS I 118     230.244 133.768  -3.271  1.00 37.05      IS9
ATOM  42986  CD  LYS I 118     231.212 133.543  -4.441  1.00 37.05      IS9
ATOM  42987  CE  LYS I 118     231.498 134.804  -5.243  1.00 37.05      IS9
ATOM  42988  NZ  LYS I 118     230.286 135.213  -6.002  1.00 37.05      IS9
ATOM  42989  C   LYS I 118     226.874 135.662  -3.019  1.00 44.79      IS9
ATOM  42990  O   LYS I 118     227.097 136.388  -3.995  1.00 44.79      IS9
ATOM  42991  N   ALA I 119     225.756 135.759  -2.319  1.00 46.64      IS9
ATOM  42992  CA  ALA I 119     224.760 136.742  -2.728  1.00 46.64      IS9
ATOM  42993  CB  ALA I 119     225.425 138.087  -2.985  1.00 62.44      IS9
ATOM  42994  C   ALA I 119     224.037 136.286  -3.990  1.00 46.64      IS9
ATOM  42995  O   ALA I 119     222.971 136.812  -4.338  1.00 46.64      IS9
ATOM  42996  N   ARG I 120     224.630 135.317  -4.682  1.00 36.75      IS9
ATOM  42997  CA  ARG I 120     224.046 134.763  -5.899  1.00 36.75      IS9
ATOM  42998  CB  ARG I 120     224.471 135.585  -7.102  1.00 30.46      IS9
ATOM  42999  CG  ARG I 120     224.147 137.045  -6.977  1.00 30.46      IS9
ATOM  43000  CD  ARG I 120     223.157 137.468  -8.032  1.00 30.46      IS9
ATOM  43001  NE  ARG I 120     222.958 138.911  -8.016  1.00 30.46      IS9
ATOM  43002  CZ  ARG I 120     222.170 139.556  -8.864  1.00 30.46      IS9
ATOM  43003  NH1 ARG I 120     221.514 138.883  -9.792  1.00 30.46      IS9
ATOM  43004  NH2 ARG I 120     222.028 140.868  -8.779  1.00 30.46      IS9
ATOM  43005  C   ARG I 120     224.509 133.326  -6.073  1.00 36.75      IS9
ATOM  43006  O   ARG I 120     223.713 132.394  -6.029  1.00 36.75      IS9
ATOM  43007  N   ARG I 121     225.807 133.155  -6.266  1.00 55.65      IS9
ATOM  43008  CA  ARG I 121     226.361 131.834  -6.441  1.00 55.65      IS9
ATOM  43009  CB  ARG I 121     227.872 131.876  -6.214  1.00 86.29      IS9
ATOM  43010  CG  ARG I 121     228.612 130.712  -6.835  1.00 86.29      IS9
ATOM  43011  CD  ARG I 121     228.565 129.491  -5.945  1.00 86.29      IS9
ATOM  43012  NE  ARG I 121     228.953 128.271  -6.648  1.00 86.29      IS9
ATOM  43013  CZ  ARG I 121     228.235 127.709  -7.617  1.00 86.29      IS9
ATOM  43014  NH1 ARG I 121     227.094 128.259  -8.000  1.00 86.29      IS9
ATOM  43015  NH2 ARG I 121     228.646 126.585  -8.190  1.00 86.29      IS9
ATOM  43016  C   ARG I 121     225.684 130.895  -5.450  1.00 55.65      IS9
ATOM  43017  O   ARG I 121     226.072 130.820  -4.289  1.00 55.65      IS9
ATOM  43018  N   ALA I 122     224.647 130.204  -5.916  1.00 29.82      IS9
ATOM  43019  CA  ALA I 122     223.901 129.254  -5.099  1.00 29.82      IS9
ATOM  43020  CB  ALA I 122     222.475 129.169  -5.589  1.00 91.16      IS9
ATOM  43021  C   ALA I 122     224.561 127.889  -5.195  1.00 29.82      IS9
ATOM  43022  O   ALA I 122     225.110 127.539  -6.230  1.00 29.82      IS9
ATOM  43023  N   PRO I 123     224.504 127.092  -4.123  1.00 32.86      IS9
ATOM  43024  CD  PRO I 123     223.699 127.374  -2.929  1.00  7.18      IS9
ATOM  43025  CA  PRO I 123     225.092 125.743  -4.046  1.00 32.86      IS9
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ATOM  43026  CB  PRO I 123     224.770 125.312  -2.622  1.00  7.18       IS9
ATOM  43027  CG  PRO I 123     223.470 125.996  -2.378  1.00  7.18       IS9
ATOM  43028  C   PRO I 123     224.517 124.783  -5.078  1.00 32.86       IS9
ATOM  43029  O   PRO I 123     223.344 124.883  -5.412  1.00 32.86       IS9
ATOM  43030  N   GLN I 124     225.327 123.853  -5.580  1.00 57.98       IS9
ATOM  43031  CA  GLN I 124     224.827 122.921  -6.589  1.00 57.98       IS9
ATOM  43032  CB  GLN I 124     225.941 122.509  -7.558  1.00 58.44       IS9
ATOM  43033  CG  GLN I 124     227.002 121.600  -6.995  1.00 58.44       IS9
ATOM  43034  CD  GLN I 124     227.973 121.135  -8.072  1.00 58.44       IS9
ATOM  43035  OE1 GLN I 124     228.417 121.928  -8.918  1.00 58.44       IS9
ATOM  43036  NE2 GLN I 124     228.312 119.848  -8.044  1.00 58.44       IS9
ATOM  43037  C   GLN I 124     224.191 121.677  -5.999  1.00 57.98       IS9
ATOM  43038  O   GLN I 124     224.200 121.476  -4.784  1.00 57.98       IS9
ATOM  43039  N   TYR I 125     223.625 120.840  -6.862  1.00 45.89       IS9
ATOM  43040  CA  TYR I 125     223.007 119.622  -6.382  1.00 45.89       IS9
ATOM  43041  CB  TYR I 125     221.522 119.854  -6.182  1.00 57.56       IS9
ATOM  43042  CG  TYR I 125     220.876 120.581  -7.310  1.00 57.56       IS9
ATOM  43043  CD1 TYR I 125     220.505 119.914  -8.472  1.00 57.56       IS9
ATOM  43044  CE1 TYR I 125     219.865 120.584  -9.512  1.00 57.56       IS9
ATOM  43045  CD2 TYR I 125     220.606 121.937  -7.209  1.00 57.56       IS9
ATOM  43046  CE2 TYR I 125     219.972 122.623  -8.239  1.00 57.56       IS9
ATOM  43047  CZ  TYR I 125     219.599 121.943  -9.390  1.00 57.56       IS9
ATOM  43048  OH  TYR I 125     218.958 122.630 -10.402  1.00 57.56       IS9
ATOM  43049  C   TYR I 125     223.234 118.348  -7.189  1.00 45.89       IS9
ATOM  43050  O   TYR I 125     223.628 118.365  -8.354  1.00 45.89       IS9
ATOM  43051  N   SER I 126     222.989 117.234  -6.515  1.00 91.03       IS9
ATOM  43052  CA  SER I 126     223.152 115.914  -7.087  1.00 91.03       IS9
ATOM  43053  CB  SER I 126     223.085 114.871  -5.976  1.00201.30       IS9
ATOM  43054  OG  SER I 126     221.833 114.929  -5.310  1.00201.30       IS9
ATOM  43055  C   SER I 126     222.053 115.627  -8.083  1.00 91.03       IS9
ATOM  43056  O   SER I 126     221.777 116.419  -8.983  1.00 91.03       IS9
ATOM  43057  N   LYS I 127     221.434 114.468  -7.904  1.00 79.01       IS9
ATOM  43058  CA  LYS I 127     220.340 114.042  -8.750  1.00 79.01       IS9
ATOM  43059  CB  LYS I 127     220.269 112.514  -8.792  1.00 59.27       IS9
ATOM  43060  CG  LYS I 127     221.361 111.854  -9.651  1.00 59.27       IS9
ATOM  43061  CD  LYS I 127     222.785 112.013  -9.106  1.00 59.27       IS9
ATOM  43062  CE  LYS I 127     223.766 111.211  -9.959  1.00 59.27       IS9
ATOM  43063  NZ  LYS I 127     225.124 111.081  -9.363  1.00 59.27       IS9
ATOM  43064  C   LYS I 127     219.057 114.621  -8.181  1.00 79.01       IS9
ATOM  43065  O   LYS I 127     218.228 113.902  -7.620  1.00 79.01       IS9
ATOM  43066  N   ARG I 128     218.922 115.937  -8.315  1.00136.66       IS9
ATOM  43067  CA  ARG I 128     217.750 116.658  -7.842  1.00136.66       IS9
ATOM  43068  CB  ARG I 128     217.966 118.167  -7.994  1.00168.00       IS9
ATOM  43069  CG  ARG I 128     216.879 119.041  -7.377  1.00168.00       IS9
ATOM  43070  CD  ARG I 128     217.121 120.525  -7.649  1.00168.00       IS9
ATOM  43071  NE  ARG I 128     216.206 121.383  -6.897  1.00168.00       IS9
ATOM  43072  CZ  ARG I 128     216.205 122.714  -6.945  1.00168.00       IS9
ATOM  43073  NH1 ARG I 128     217.071 123.358  -7.714  1.00168.00       IS9
ATOM  43074  NH2 ARG I 128     215.337 123.404  -6.217  1.00168.00       IS9
ATOM  43075  C   ARG I 128     216.550 116.219  -8.679  1.00136.66       IS9
ATOM  43076  O   ARG I 128     216.704 115.264  -9.472  1.00136.66       IS9
ATOM  43077  OXT ARG I 128     215.471 116.828  -8.534  1.00168.00       IS9
TER   43077       ARG I 128                                               IS9
ATOM  43078  CB  LYS J   3     238.135 169.357  32.266  1.00154.53       JS10
ATOM  43079  CG  LYS J   3     239.048 168.201  31.885  1.00154.53       JS10
ATOM  43080  CD  LYS J   3     239.235 168.114  30.384  1.00154.53       JS10
ATOM  43081  CE  LYS J   3     240.083 166.915  30.008  1.00154.53       JS10
ATOM  43082  NZ  LYS J   3     240.252 166.819  28.534  1.00154.53       JS10
ATOM  43083  C   LYS J   3     236.038 167.981  32.173  1.00145.08       JS10
ATOM  43084  O   LYS J   3     236.537 167.304  33.071  1.00145.08       JS10
ATOM  43085  N   LYS J   3     235.935 170.473  32.079  1.00145.08       JS10
ATOM  43086  CA  LYS J   3     236.717 169.265  31.689  1.00145.08       JS10
ATOM  43087  N   ILE J   4     234.896 167.653  31.575  1.00161.99       JS10
ATOM  43088  CA  ILE J   4     234.160 166.448  31.941  1.00161.99       JS10
ATOM  43089  CB  ILE J   4     232.869 166.788  32.711  1.00180.18       JS10
ATOM  43090  CG2 ILE J   4     231.990 165.549  32.836  1.00180.18       JS10
ATOM  43091  CG1 ILE J   4     233.222 167.330  34.095  1.00180.18       JS10
ATOM  43092  CD1 ILE J   4     232.016 167.624  34.961  1.00180.18       JS10
ATOM  43093  C   ILE J   4     233.788 165.592  30.733  1.00161.99       JS10
ATOM  43094  O   ILE J   4     232.976 165.990  29.895  1.00161.99       JS10
ATOM  43095  N   ARG J   5     234.390 164.411  30.655  1.00 88.63       JS10
ATOM  43096  CA  ARG J   5     234.122 163.484  29.567  1.00 88.63       JS10
ATOM  43097  CB  ARG J   5     235.327 162.553  29.351  1.00182.62       JS10
ATOM  43098  CG  ARG J   5     235.167 161.580  28.185  1.00182.62       JS10
ATOM  43099  CD  ARG J   5     236.238 160.474  28.159  1.00182.62       JS10
ATOM  43100  NE  ARG J   5     237.574 160.936  27.776  1.00182.62       JS10
ATOM  43101  CZ  ARG J   5     238.602 160.129  27.511  1.00182.62       JS10
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ATOM  43102  NH1 ARG J   5     238.456 158.812  27.584  1.00182.62      JS10
ATOM  43103  NH2 ARG J   5     239.780 160.635  27.168  1.00182.62      JS10
ATOM  43104  C   ARG J   5     232.894 162.668  29.952  1.00 88.63      JS10
ATOM  43105  O   ARG J   5     232.987 161.703  30.705  1.00 88.63      JS10
ATOM  43106  N   ILE J   6     231.736 163.075  29.453  1.00150.98      JS10
ATOM  43107  CA  ILE J   6     230.504 162.359  29.741  1.00150.98      JS10
ATOM  43108  CB  ILE J   6     229.348 163.342  30.059  1.00 81.89      JS10
ATOM  43109  CG2 ILE J   6     229.143 163.432  31.556  1.00 81.89      JS10
ATOM  43110  CG1 ILE J   6     229.677 164.745  29.539  1.00 81.89      JS10
ATOM  43111  CD1 ILE J   6     229.998 164.824  28.069  1.00 81.89      JS10
ATOM  43112  C   ILE J   6     230.153 161.497  28.529  1.00150.98      JS10
ATOM  43113  O   ILE J   6     229.669 162.000  27.518  1.00150.98      JS10
ATOM  43114  N   LYS J   7     230.410 160.196  28.631  1.00107.93      JS10
ATOM  43115  CA  LYS J   7     230.143 159.278  27.526  1.00107.93      JS10
ATOM  43116  CB  LYS J   7     231.232 158.200  27.463  1.00120.95      JS10
ATOM  43117  CG  LYS J   7     231.277 157.390  26.164  1.00120.95      JS10
ATOM  43118  CD  LYS J   7     232.436 156.388  26.186  1.00120.95      JS10
ATOM  43119  CE  LYS J   7     232.563 155.600  24.885  1.00120.95      JS10
ATOM  43120  NZ  LYS J   7     232.933 156.460  23.728  1.00120.95      JS10
ATOM  43121  C   LYS J   7     228.777 158.621  27.648  1.00107.93      JS10
ATOM  43122  O   LYS J   7     228.591 157.681  28.422  1.00107.93      JS10
ATOM  43123  N   LEU J   8     227.823 159.128  26.877  1.00 90.42      JS10
ATOM  43124  CA  LEU J   8     226.473 158.588  26.876  1.00 90.42      JS10
ATOM  43125  CB  LEU J   8     225.472 159.678  26.500  1.00142.60      JS10
ATOM  43126  CG  LEU J   8     224.889 160.423  27.696  1.00142.60      JS10
ATOM  43127  CD1 LEU J   8     224.038 161.590  27.243  1.00142.60      JS10
ATOM  43128  CD2 LEU J   8     224.064 159.446  28.505  1.00142.60      JS10
ATOM  43129  C   LEU J   8     226.373 157.439  25.888  1.00 90.42      JS10
ATOM  43130  O   LEU J   8     226.884 157.531  24.774  1.00 90.42      JS10
ATOM  43131  N   ARG J   9     225.720 156.356  26.300  1.00 66.08      JS10
ATOM  43132  CA  ARG J   9     225.552 155.190  25.436  1.00 66.08      JS10
ATOM  43133  CB  ARG J   9     226.590 154.117  25.771  1.00128.79      JS10
ATOM  43134  CG  ARG J   9     226.329 153.387  27.072  1.00128.79      JS10
ATOM  43135  CD  ARG J   9     227.435 152.400  27.419  1.00128.79      JS10
ATOM  43136  NE  ARG J   9     228.646 153.072  27.877  1.00128.79      JS10
ATOM  43137  CZ  ARG J   9     229.539 153.636  27.073  1.00128.79      JS10
ATOM  43138  NH1 ARG J   9     229.364 153.606  25.759  1.00128.79      JS10
ATOM  43139  NH2 ARG J   9     230.603 154.239  27.586  1.00128.79      JS10
ATOM  43140  C   ARG J   9     224.154 154.621  25.619  1.00 66.08      JS10
ATOM  43141  O   ARG J   9     223.663 154.519  26.738  1.00 66.08      JS10
ATOM  43142  N   GLY J  10     223.515 154.254  24.515  1.00170.62      JS10
ATOM  43143  CA  GLY J  10     222.176 153.707  24.603  1.00170.62      JS10
ATOM  43144  C   GLY J  10     221.810 152.793  23.453  1.00170.62      JS10
ATOM  43145  O   GLY J  10     222.396 152.870  22.372  1.00170.62      JS10
ATOM  43146  N   PHE J  11     220.837 151.922  23.690  1.00 90.25      JS10
ATOM  43147  CA  PHE J  11     220.381 150.994  22.667  1.00 90.25      JS10
ATOM  43148  CB  PHE J  11     219.566 149.858  23.307  1.00 30.62      JS10
ATOM  43149  CG  PHE J  11     220.412 148.785  23.962  1.00 30.62      JS10
ATOM  43150  CD1 PHE J  11     219.824 147.824  24.790  1.00 30.62      JS10
ATOM  43151  CD2 PHE J  11     221.787 148.726  23.751  1.00 30.62      JS10
ATOM  43152  CE1 PHE J  11     220.594 146.810  25.407  1.00 30.62      JS10
ATOM  43153  CE2 PHE J  11     222.561 147.725  24.358  1.00 30.62      JS10
ATOM  43154  CZ  PHE J  11     221.958 146.761  25.192  1.00 30.62      JS10
ATOM  43155  C   PHE J  11     219.542 151.729  21.627  1.00 90.25      JS10
ATOM  43156  O   PHE J  11     219.592 151.409  20.438  1.00 90.25      JS10
ATOM  43157  N   ASP J  12     218.784 152.725  22.078  1.00 86.80      JS10
ATOM  43158  CA  ASP J  12     217.932 153.501  21.180  1.00 86.80      JS10
ATOM  43159  CB  ASP J  12     216.501 153.540  21.711  1.00130.22      JS10
ATOM  43160  CG  ASP J  12     215.643 154.551  20.979  1.00130.22      JS10
ATOM  43161  OD1 ASP J  12     215.891 155.760  21.144  1.00130.22      JS10
ATOM  43162  OD2 ASP J  12     214.728 154.138  20.235  1.00130.22      JS10
ATOM  43163  C   ASP J  12     218.418 154.925  20.974  1.00 86.80      JS10
ATOM  43164  O   ASP J  12     218.684 155.640  21.937  1.00 86.80      JS10
ATOM  43165  N   HIS J  13     218.504 155.345  19.716  1.00 70.84      JS10
ATOM  43166  CA  HIS J  13     218.965 156.691  19.404  1.00 70.84      JS10
ATOM  43167  CB  HIS J  13     219.427 156.767  17.956  1.00 78.47      JS10
ATOM  43168  CG  HIS J  13     218.313 156.667  16.972  1.00 78.47      JS10
ATOM  43169  CD2 HIS J  13     217.769 157.591  16.147  1.00 78.47      JS10
ATOM  43170  ND1 HIS J  13     217.591 155.510  16.789  1.00 78.47      JS10
ATOM  43171  CE1 HIS J  13     216.646 155.725  15.891  1.00 78.47      JS10
ATOM  43172  NE2 HIS J  13     216.733 156.980  15.486  1.00 78.47      JS10
ATOM  43173  C   HIS J  13     217.890 157.752  19.643  1.00 70.84      JS10
ATOM  43174  O   HIS J  13     218.203 158.889  19.988  1.00 70.84      JS10
ATOM  43175  N   LYS J  14     216.627 157.386  19.449  1.00106.73      JS10
ATOM  43176  CA  LYS J  14     215.517 158.315  19.668  1.00106.73      JS10
ATOM  43177  CB  LYS J  14     214.184 157.565  19.561  1.00201.30      JS10
ATOM  43178  CG  LYS J  14     213.995 156.832  18.236  1.00201.30      JS10
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ATOM  43179  CD  LYS J  14     212.986 155.683  18.332  1.00201.30      JS10
ATOM  43180  CE  LYS J  14     211.576 156.162  18.644  1.00201.30      JS10
ATOM  43181  NZ  LYS J  14     210.605 155.028  18.669  1.00201.30      JS10
ATOM  43182  C   LYS J  14     215.681 158.893  21.070  1.00106.73      JS10
ATOM  43183  O   LYS J  14     215.280 160.023  21.351  1.00106.73      JS10
ATOM  43184  N   THR J  15     216.294 158.091  21.936  1.00 88.03      JS10
ATOM  43185  CA  THR J  15     216.555 158.451  23.321  1.00 88.03      JS10
ATOM  43186  CB  THR J  15     216.895 157.202  24.156  1.00 57.06      JS10
ATOM  43187  OG1 THR J  15     215.688 156.616  24.653  1.00 57.06      JS10
ATOM  43188  CG2 THR J  15     217.798 157.559  25.318  1.00 57.06      JS10
ATOM  43189  C   THR J  15     217.695 159.448  23.465  1.00 88.03      JS10
ATOM  43190  O   THR J  15     217.463 160.614  23.767  1.00 88.03      JS10
ATOM  43191  N   LEU J  16     218.925 158.985  23.257  1.00 74.20      JS10
ATOM  43192  CA  LEU J  16     220.090 159.852  23.387  1.00 74.20      JS10
ATOM  43193  CB  LEU J  16     221.375 159.087  23.045  1.00 56.56      JS10
ATOM  43194  CG  LEU J  16     221.585 157.748  23.768  1.00 56.56      JS10
ATOM  43195  CD1 LEU J  16     223.077 157.419  23.783  1.00 56.56      JS10
ATOM  43196  CD2 LEU J  16     221.043 157.811  25.186  1.00 56.56      JS10
ATOM  43197  C   LEU J  16     219.975 161.107  22.526  1.00 74.20      JS10
ATOM  43198  O   LEU J  16     220.491 162.160  22.891  1.00 74.20      JS10
ATOM  43199  N   ASP J  17     219.296 161.004  21.386  1.00181.24      JS10
ATOM  43200  CA  ASP J  17     219.118 162.169  20.526  1.00181.24      JS10
ATOM  43201  CB  ASP J  17     218.388 161.794  19.228  1.00158.54      JS10
ATOM  43202  CG  ASP J  17     219.217 160.896  18.323  1.00158.54      JS10
ATOM  43203  OD1 ASP J  17     220.422 161.180  18.143  1.00158.54      JS10
ATOM  43204  OD2 ASP J  17     218.658 159.917  17.781  1.00158.54      JS10
ATOM  43205  C   ASP J  17     218.291 163.185  21.309  1.00181.24      JS10
ATOM  43206  O   ASP J  17     218.005 164.284  20.831  1.00181.24      JS10
ATOM  43207  N   ALA J  18     217.910 162.790  22.521  1.00120.97      JS10
ATOM  43208  CA  ALA J  18     217.123 163.624  23.419  1.00120.97      JS10
ATOM  43209  CB  ALA J  18     215.696 163.093  23.507  1.00178.95      JS10
ATOM  43210  C   ALA J  18     217.771 163.633  24.804  1.00120.97      JS10
ATOM  43211  O   ALA J  18     217.940 164.689  25.410  1.00120.97      JS10
ATOM  43212  N   SER J  19     218.128 162.452  25.304  1.00 84.54      JS10
ATOM  43213  CA  SER J  19     218.765 162.343  26.611  1.00 84.54      JS10
ATOM  43214  CB  SER J  19     219.232 160.911  26.868  1.00117.89      JS10
ATOM  43215  OG  SER J  19     220.041 160.861  28.031  1.00117.89      JS10
ATOM  43216  C   SER J  19     219.959 163.281  26.668  1.00 84.54      JS10
ATOM  43217  O   SER J  19     219.968 164.236  27.437  1.00 84.54      JS10
ATOM  43218  N   ALA J  20     220.971 163.008  25.853  1.00 71.45      JS10
ATOM  43219  CA  ALA J  20     222.146 163.864  25.820  1.00 71.45      JS10
ATOM  43220  CB  ALA J  20     223.144 163.360  24.791  1.00114.65      JS10
ATOM  43221  C   ALA J  20     221.677 165.262  25.453  1.00 71.45      JS10
ATOM  43222  O   ALA J  20     222.341 166.249  25.754  1.00 71.45      JS10
ATOM  43223  N   GLN J  21     220.524 165.338  24.798  1.00 88.83      JS10
ATOM  43224  CA  GLN J  21     219.970 166.623  24.410  1.00 88.83      JS10
ATOM  43225  CB  GLN J  21     218.712 166.428  23.565  1.00114.74      JS10
ATOM  43226  CG  GLN J  21     218.041 167.717  23.168  1.00114.74      JS10
ATOM  43227  CD  GLN J  21     219.044 168.791  22.809  1.00114.74      JS10
ATOM  43228  OE1 GLN J  21     220.004 168.540  22.075  1.00114.74      JS10
ATOM  43229  NE2 GLN J  21     218.827 169.998  23.323  1.00114.74      JS10
ATOM  43230  C   GLN J  21     219.654 167.420  25.672  1.00 88.83      JS10
ATOM  43231  O   GLN J  21     219.487 168.641  25.628  1.00 88.83      JS10
ATOM  43232  N   LYS J  22     219.565 166.718  26.799  1.00119.85      JS10
ATOM  43233  CA  LYS J  22     219.312 167.367  28.079  1.00119.85      JS10
ATOM  43234  CB  LYS J  22     218.940 166.343  29.156  1.00137.66      JS10
ATOM  43235  CG  LYS J  22     217.582 165.683  28.986  1.00137.66      JS10
ATOM  43236  CD  LYS J  22     217.271 164.789  30.182  1.00137.66      JS10
ATOM  43237  CE  LYS J  22     215.865 164.208  30.116  1.00137.66      JS10
ATOM  43238  NZ  LYS J  22     215.686 163.255  28.986  1.00137.66      JS10
ATOM  43239  C   LYS J  22     220.620 168.042  28.465  1.00119.85      JS10
ATOM  43240  O   LYS J  22     220.713 169.271  28.502  1.00119.85      JS10
ATOM  43241  N   ILE J  23     221.632 167.220  28.738  1.00 69.07      JS10
ATOM  43242  CA  ILE J  23     222.956 167.706  29.114  1.00 69.07      JS10
ATOM  43243  CB  ILE J  23     224.003 166.551  29.118  1.00 70.42      JS10
ATOM  43244  CG2 ILE J  23     225.385 167.090  29.438  1.00 70.42      JS10
ATOM  43245  CG1 ILE J  23     223.630 165.492  30.164  1.00 70.42      JS10
ATOM  43246  CD1 ILE J  23     222.442 164.625  29.792  1.00 70.42      JS10
ATOM  43247  C   ILE J  23     223.405 168.801  28.145  1.00 69.07      JS10
ATOM  43248  O   ILE J  23     224.292 169.590  28.454  1.00 69.07      JS10
ATOM  43249  N   VAL J  24     222.789 168.851  26.969  1.00153.44      JS10
ATOM  43250  CA  VAL J  24     223.135 169.878  25.997  1.00153.44      JS10
ATOM  43251  CB  VAL J  24     222.399 169.672  24.651  1.00201.30      JS10
ATOM  43252  CG1 VAL J  24     222.679 170.846  23.720  1.00201.30      JS10
ATOM  43253  CG2 VAL J  24     222.855 168.378  23.999  1.00201.30      JS10
ATOM  43254  C   VAL J  24     222.747 171.239  26.566  1.00153.44      JS10
ATOM  43255  O   VAL J  24     223.591 171.951  27.102  1.00153.44      JS10
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ATOM  43257  CA  GLU J  25     220.978 172.867  26.964  1.00142.97      JS10
ATOM  43258  CB  GLU J  25     219.529 173.100  26.525  1.00195.66      JS10
ATOM  43259  CG  GLU J  25     219.338 173.293  25.031  1.00195.66      JS10
ATOM  43260  CD  GLU J  25     217.916 173.693  24.676  1.00195.66      JS10
ATOM  43261  OE1 GLU J  25     217.480 174.783  25.104  1.00195.66      JS10
ATOM  43262  OE2 GLU J  25     217.232 172.918  23.973  1.00195.66      JS10
ATOM  43263  C   GLU J  25     221.060 172.990  28.482  1.00142.97      JS10
ATOM  43264  O   GLU J  25     220.864 174.075  29.026  1.00142.97      JS10
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ATOM  43266  CA  ALA J  26     221.440 171.906  30.623  1.00189.32      JS10
ATOM  43267  CB  ALA J  26     221.694 170.504  31.152  1.00110.69      JS10
ATOM  43268  C   ALA J  26     222.546 172.843  31.091  1.00189.32      JS10
ATOM  43269  O   ALA J  26     222.361 174.060  31.141  1.00189.32      JS10
ATOM  43270  N   ALA J  27     223.695 172.270  31.434  1.00158.31      JS10
ATOM  43271  CA  ALA J  27     224.834 173.050  31.902  1.00158.31      JS10
ATOM  43272  CB  ALA J  27     226.047 172.144  32.067  1.00 59.65      JS10
ATOM  43273  C   ALA J  27     225.163 174.203  30.952  1.00158.31      JS10
ATOM  43274  O   ALA J  27     225.815 175.172  31.345  1.00158.31      JS10
ATOM  43275  N   ARG J  28     224.706 174.090  29.706  1.00113.39      JS10
ATOM  43276  CA  ARG J  28     224.932 175.115  28.688  1.00113.39      JS10
ATOM  43277  CB  ARG J  28     224.475 174.600  27.321  1.00189.05      JS10
ATOM  43278  CG  ARG J  28     225.561 174.494  26.259  1.00189.05      JS10
ATOM  43279  CD  ARG J  28     225.058 173.659  25.085  1.00189.05      JS10
ATOM  43280  NE  ARG J  28     225.978 173.647  23.951  1.00189.05      JS10
ATOM  43281  CZ  ARG J  28     226.183 174.682  23.143  1.00189.05      JS10
ATOM  43282  NH1 ARG J  28     225.532 175.820  23.342  1.00189.05      JS10
ATOM  43283  NH2 ARG J  28     227.038 174.580  22.135  1.00189.05      JS10
ATOM  43284  C   ARG J  28     224.140 176.365  29.047  1.00113.39      JS10
ATOM  43285  O   ARG J  28     223.509 176.982  28.190  1.00113.39      JS10
ATOM  43286  N   ARG J  29     224.169 176.724  30.325  1.00172.76      JS10
ATOM  43287  CA  ARG J  29     223.461 177.892  30.824  1.00172.76      JS10
ATOM  43288  CB  ARG J  29     222.026 177.526  31.194  1.00144.67      JS10
ATOM  43289  CG  ARG J  29     221.167 177.062  30.039  1.00144.67      JS10
ATOM  43290  CD  ARG J  29     219.878 176.450  30.559  1.00144.67      JS10
ATOM  43291  NE  ARG J  29     218.943 176.117  29.489  1.00144.67      JS10
ATOM  43292  CZ  ARG J  29     217.793 175.476  29.677  1.00144.67      JS10
ATOM  43293  NH1 ARG J  29     217.437 175.094  30.896  1.00144.67      JS10
ATOM  43294  NH2 ARG J  29     216.994 175.225  28.647  1.00144.67      JS10
ATOM  43295  C   ARG J  29     224.178 178.389  32.066  1.00172.76      JS10
ATOM  43296  O   ARG J  29     223.661 179.234  32.794  1.00172.76      JS10
ATOM  43297  N   SER J  30     225.371 177.857  32.308  1.00188.20      JS10
ATOM  43298  CA  SER J  30     226.145 178.244  33.478  1.00188.20      JS10
ATOM  43299  CB  SER J  30     225.488 177.670  34.735  1.00116.07      JS10
ATOM  43300  OG  SER J  30     225.189 176.294  34.563  1.00116.07      JS10
ATOM  43301  C   SER J  30     227.601 177.792  33.404  1.00188.20      JS10
ATOM  43302  O   SER J  30     228.276 177.697  34.428  1.00188.20      JS10
ATOM  43303  N   GLY J  31     228.081 177.518  32.193  1.00188.98      JS10
ATOM  43304  CA  GLY J  31     229.458 177.081  32.023  1.00188.98      JS10
ATOM  43305  C   GLY J  31     229.908 177.094  30.574  1.00188.98      JS10
ATOM  43306  O   GLY J  31     229.325 177.797  29.747  1.00188.98      JS10
ATOM  43307  N   ALA J  32     230.949 176.323  30.263  1.00201.30      JS10
ATOM  43308  CA  ALA J  32     231.461 176.250  28.896  1.00201.30      JS10
ATOM  43309  CB  ALA J  32     232.539 175.165  28.777  1.00 54.01      JS10
ATOM  43310  C   ALA J  32     230.303 175.932  27.964  1.00201.30      JS10
ATOM  43311  O   ALA J  32     229.373 175.217  28.340  1.00201.30      JS10
ATOM  43312  N   GLN J  33     230.361 176.463  26.748  1.00201.30      JS10
ATOM  43313  CA  GLN J  33     229.302 176.227  25.777  1.00201.30      JS10
ATOM  43314  CB  GLN J  33     229.506 177.125  24.548  1.00201.28      JS10
ATOM  43315  CG  GLN J  33     228.249 177.333  23.706  1.00201.28      JS10
ATOM  43316  CD  GLN J  33     228.417 178.413  22.649  1.00201.28      JS10
ATOM  43317  OE1 GLN J  33     229.247 178.293  21.747  1.00201.28      JS10
ATOM  43318  NE2 GLN J  33     227.627 179.476  22.758  1.00201.28      JS10
ATOM  43319  C   GLN J  33     229.283 174.751  25.373  1.00201.30      JS10
ATOM  43320  O   GLN J  33     228.463 174.332  24.558  1.00201.30      JS10
ATOM  43321  N   VAL J  34     230.191 173.969  25.955  1.00119.89      JS10
ATOM  43322  CA  VAL J  34     230.275 172.541  25.671  1.00119.89      JS10
ATOM  43323  CB  VAL J  34     228.942 171.843  26.010  1.00150.70      JS10
ATOM  43324  CG1 VAL J  34     229.052 170.355  25.758  1.00150.70      JS10
ATOM  43325  CG2 VAL J  34     228.570 172.116  27.457  1.00150.70      JS10
ATOM  43326  C   VAL J  34     230.608 172.296  24.201  1.00119.89      JS10
ATOM  43327  O   VAL J  34     230.400 173.167  23.356  1.00119.89      JS10
ATOM  43328  N   SER J  35     231.130 171.109  23.903  1.00116.89      JS10
ATOM  43329  CA  SER J  35     231.491 170.752  22.533  1.00116.89      JS10
ATOM  43330  CB  SER J  35     232.651 169.753  22.531  1.00104.37      JS10
ATOM  43331  OG  SER J  35     233.796 170.280  23.174  1.00104.37      JS10
ATOM  43332  C   SER J  35     230.304 170.141  21.794  1.00116.89      JS10
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ATOM  43333  O   SER J  35     230.477 169.296  20.918  1.00116.89      JS10
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ATOM  43335  CA  GLY J  36     227.912 170.035  21.502  1.00122.38      JS10
ATOM  43336  C   GLY J  36     227.852 168.524  21.614  1.00122.38      JS10
ATOM  43337  O   GLY J  36     228.793 167.900  22.101  1.00122.38      JS10
ATOM  43338  N   PRO J  37     226.748 167.901  21.187  1.00 77.40      JS10
ATOM  43339  CD  PRO J  37     225.485 168.492  20.710  1.00162.79      JS10
ATOM  43340  CA  PRO J  37     226.648 166.442  21.273  1.00 77.40      JS10
ATOM  43341  CB  PRO J  37     225.149 166.203  21.162  1.00162.79      JS10
ATOM  43342  CG  PRO J  37     224.726 167.283  20.205  1.00162.79      JS10
ATOM  43343  C   PRO J  37     227.428 165.803  20.129  1.00 77.40      JS10
ATOM  43344  O   PRO J  37     227.086 165.984  18.959  1.00 77.40      JS10
ATOM  43345  N   ILE J  38     228.483 165.068  20.458  1.00 97.97      JS10
ATOM  43346  CA  ILE J  38     229.278 164.434  19.418  1.00 97.97      JS10
ATOM  43347  CB  ILE J  38     230.757 164.339  19.816  1.00159.16      JS10
ATOM  43348  CG2 ILE J  38     231.581 163.908  18.613  1.00159.16      JS10
ATOM  43349  CG1 ILE J  38     231.251 165.699  20.312  1.00159.16      JS10
ATOM  43350  CD1 ILE J  38     232.704 165.707  20.750  1.00159.16      JS10
ATOM  43351  C   ILE J  38     228.753 163.034  19.145  1.00 97.97      JS10
ATOM  43352  O   ILE J  38     228.674 162.205  20.048  1.00 97.97      JS10
ATOM  43353  N   PRO J  39     228.392 162.754  17.885  1.00 74.41      JS10
ATOM  43354  CD  PRO J  39     228.663 163.630  16.737  1.00 93.11      JS10
ATOM  43355  CA  PRO J  39     227.861 161.466  17.430  1.00 74.41      JS10
ATOM  43356  CB  PRO J  39     227.836 161.622  15.909  1.00 93.11      JS10
ATOM  43357  CG  PRO J  39     228.902 162.630  15.651  1.00 93.11      JS10
ATOM  43358  C   PRO J  39     228.642 160.236  17.893  1.00 74.41      JS10
ATOM  43359  O   PRO J  39     228.184 159.517  18.776  1.00 74.41      JS10
ATOM  43360  N   LEU J  40     229.801 159.983  17.291  1.00 54.50      JS10
ATOM  43361  CA  LEU J  40     230.634 158.837  17.675  1.00 54.50      JS10
ATOM  43362  CB  LEU J  40     230.756 158.769  19.202  1.00 74.09      JS10
ATOM  43363  CG  LEU J  40     232.138 158.533  19.815  1.00 74.09      JS10
ATOM  43364  CD1 LEU J  40     232.070 158.891  21.287  1.00 74.09      JS10
ATOM  43365  CD2 LEU J  40     232.588 157.085  19.636  1.00 74.09      JS10
ATOM  43366  C   LEU J  40     230.123 157.493  17.137  1.00 54.50      JS10
ATOM  43367  O   LEU J  40     229.038 157.044  17.505  1.00 54.50      JS10
ATOM  43368  N   PRO J  41     230.924 156.824  16.277  1.00 58.40      JS10
ATOM  43369  CD  PRO J  41     232.339 157.142  16.022  1.00 88.30      JS10
ATOM  43370  CA  PRO J  41     230.593 155.537  15.663  1.00 58.40      JS10
ATOM  43371  CB  PRO J  41     231.918 155.096  15.039  1.00 88.30      JS10
ATOM  43372  CG  PRO J  41     232.936 155.773  15.864  1.00 88.30      JS10
ATOM  43373  C   PRO J  41     230.001 154.492  16.592  1.00 58.40      JS10
ATOM  43374  O   PRO J  41     230.288 154.455  17.791  1.00 58.40      JS10
ATOM  43375  N   THR J  42     229.196 153.623  15.989  1.00117.20      JS10
ATOM  43376  CA  THR J  42     228.474 152.562  16.674  1.00117.20      JS10
ATOM  43377  CB  THR J  42     227.016 152.634  16.262  1.00 49.15      JS10
ATOM  43378  OG1 THR J  42     226.510 153.944  16.558  1.00 49.15      JS10
ATOM  43379  CG2 THR J  42     226.211 151.566  16.968  1.00 49.15      JS10
ATOM  43380  C   THR J  42     228.966 151.134  16.411  1.00117.20      JS10
ATOM  43381  O   THR J  42     229.374 150.803  15.297  1.00117.20      JS10
ATOM  43382  N   ARG J  43     228.906 150.288  17.438  1.00 75.39      JS10
ATOM  43383  CA  ARG J  43     229.320 148.889  17.305  1.00 75.39      JS10
ATOM  43384  CB  ARG J  43     230.297 148.494  18.417  1.00130.33      JS10
ATOM  43385  CG  ARG J  43     231.699 149.073  18.275  1.00130.33      JS10
ATOM  43386  CD  ARG J  43     232.702 148.288  19.122  1.00130.33      JS10
ATOM  43387  NE  ARG J  43     234.028 148.903  19.132  1.00130.33      JS10
ATOM  43388  CZ  ARG J  43     235.100 148.371  19.713  1.00130.33      JS10
ATOM  43389  NH1 ARG J  43     235.016 147.201  20.336  1.00130.33      JS10
ATOM  43390  NH2 ARG J  43     236.259 149.016  19.678  1.00130.33      JS10
ATOM  43391  C   ARG J  43     228.117 147.943  17.342  1.00 75.39      JS10
ATOM  43392  O   ARG J  43     227.514 147.736  18.401  1.00 75.39      JS10
ATOM  43393  N   VAL J  44     227.790 147.357  16.188  1.00 66.31      JS10
ATOM  43394  CA  VAL J  44     226.653 146.447  16.066  1.00 66.31      JS10
ATOM  43395  CB  VAL J  44     226.052 146.521  14.661  1.00 61.77      JS10
ATOM  43396  CG1 VAL J  44     224.914 145.526  14.537  1.00 61.77      JS10
ATOM  43397  CG2 VAL J  44     225.553 147.926  14.381  1.00 61.77      JS10
ATOM  43398  C   VAL J  44     226.949 144.977  16.380  1.00 66.31      JS10
ATOM  43399  O   VAL J  44     228.029 144.470  16.085  1.00 66.31      JS10
ATOM  43400  N   ARG J  45     225.960 144.306  16.968  1.00 62.32      JS10
ATOM  43401  CA  ARG J  45     226.045 142.900  17.360  1.00 62.32      JS10
ATOM  43402  CB  ARG J  45     225.705 142.756  18.838  1.00113.65      JS10
ATOM  43403  CG  ARG J  45     226.815 143.105  19.764  1.00113.65      JS10
ATOM  43404  CD  ARG J  45     227.915 142.089  19.614  1.00113.65      JS10
ATOM  43405  NE  ARG J  45     228.495 141.745  20.904  1.00113.65      JS10
ATOM  43406  CZ  ARG J  45     227.803 141.213  21.903  1.00113.65      JS10
ATOM  43407  NH1 ARG J  45     226.505 140.965  21.758  1.00113.65      JS10
ATOM  43408  NH2 ARG J  45     228.413 140.933  23.044  1.00113.65      JS10
ATOM  43409  C   ARG J  45     225.060 142.045  16.576  1.00 62.32      JS10
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ATOM  43412  CA  ARG J  46     224.650 140.410  14.830  1.00 81.54      JS10
ATOM  43413  CB  ARG J  46     225.192 140.175  13.417  1.00126.37      JS10
ATOM  43414  CG  ARG J  46     225.122 141.360  12.481  1.00126.37      JS10
ATOM  43415  CD  ARG J  46     225.274 140.898  11.037  1.00126.37      JS10
ATOM  43416  NE  ARG J  46     225.587 142.004  10.142  1.00126.37      JS10
ATOM  43417  CZ  ARG J  46     224.877 143.124  10.061  1.00126.37      JS10
ATOM  43418  NH1 ARG J  46     223.804 143.293  10.823  1.00126.37      JS10
ATOM  43419  NH2 ARG J  46     225.248 144.080   9.221  1.00126.37      JS10
ATOM  43420  C   ARG J  46     224.383 139.052  15.454  1.00 81.54      JS10
ATOM  43421  O   ARG J  46     225.168 138.539  16.255  1.00 81.54      JS10
ATOM  43422  N   PHE J  47     223.249 138.484  15.063  1.00 66.19      JS10
ATOM  43423  CA  PHE J  47     222.820 137.171  15.506  1.00 66.19      JS10
ATOM  43424  CB  PHE J  47     221.831 137.274  16.664  1.00 79.53      JS10
ATOM  43425  CG  PHE J  47     222.408 137.916  17.882  1.00 79.53      JS10
ATOM  43426  CD1 PHE J  47     222.018 139.196  18.262  1.00 79.53      JS10
ATOM  43427  CD2 PHE J  47     223.385 137.265  18.624  1.00 79.53      JS10
ATOM  43428  CE1 PHE J  47     222.599 139.820  19.362  1.00 79.53      JS10
ATOM  43429  CE2 PHE J  47     223.972 137.879  19.725  1.00 79.53      JS10
ATOM  43430  CZ  PHE J  47     223.580 139.160  20.095  1.00 79.53      JS10
ATOM  43431  C   PHE J  47     222.154 136.542  14.299  1.00 66.19      JS10
ATOM  43432  O   PHE J  47     221.231 137.106  13.713  1.00 66.19      JS10
ATOM  43433  N   THR J  48     222.653 135.380  13.912  1.00 51.60      JS10
ATOM  43434  CA  THR J  48     222.118 134.672  12.772  1.00 51.60      JS10
ATOM  43435  CB  THR J  48     223.206 134.477  11.727  1.00107.85      JS10
ATOM  43436  OG1 THR J  48     223.751 135.754  11.370  1.00107.85      JS10
ATOM  43437  CG2 THR J  48     222.641 133.813  10.499  1.00107.85      JS10
ATOM  43438  C   THR J  48     221.665 133.337  13.325  1.00 51.60      JS10
ATOM  43439  O   THR J  48     222.479 132.553  13.820  1.00 51.60      JS10
ATOM  43440  N   VAL J  49     220.365 133.076  13.243  1.00 47.40      JS10
ATOM  43441  CA  VAL J  49     219.828 131.840  13.798  1.00 47.40      JS10
ATOM  43442  CB  VAL J  49     219.062 132.137  15.089  1.00 36.86      JS10
ATOM  43443  CG1 VAL J  49     220.000 132.070  16.288  1.00 36.86      JS10
ATOM  43444  CG2 VAL J  49     218.426 133.520  14.980  1.00 36.86      JS10
ATOM  43445  C   VAL J  49     218.900 131.057  12.898  1.00 47.40      JS10
ATOM  43446  O   VAL J  49     217.939 131.599  12.391  1.00 47.40      JS10
ATOM  43447  N   ILE J  50     219.172 129.773  12.713  1.00 40.27      JS10
ATOM  43448  CA  ILE J  50     218.294 128.951  11.889  1.00 40.27      JS10
ATOM  43449  CB  ILE J  50     218.564 127.466  12.145  1.00 19.10      JS10
ATOM  43450  CG2 ILE J  50     217.514 126.616  11.475  1.00 19.10      JS10
ATOM  43451  CG1 ILE J  50     219.949 127.097  11.638  1.00 19.10      JS10
ATOM  43452  CD1 ILE J  50     220.259 125.612  11.797  1.00 19.10      JS10
ATOM  43453  C   ILE J  50     216.838 129.258  12.277  1.00 40.27      JS10
ATOM  43454  O   ILE J  50     216.465 129.093  13.440  1.00 40.27      JS10
ATOM  43455  N   ARG J  51     216.024 129.697  11.314  1.00 44.34      JS10
ATOM  43456  CA  ARG J  51     214.620 130.037  11.575  1.00 44.34      JS10
ATOM  43457  CB  ARG J  51     213.870 130.341  10.271  1.00 45.04      JS10
ATOM  43458  CG  ARG J  51     213.505 131.804  10.078  1.00 45.04      JS10
ATOM  43459  CD  ARG J  51     214.187 132.370   8.836  1.00 45.04      JS10
ATOM  43460  NE  ARG J  51     213.979 133.806   8.621  1.00 45.04      JS10
ATOM  43461  CZ  ARG J  51     212.789 134.410   8.601  1.00 45.04      JS10
ATOM  43462  NH1 ARG J  51     211.676 133.706   8.790  1.00 45.04      JS10
ATOM  43463  NH2 ARG J  51     212.706 135.715   8.373  1.00 45.04      JS10
ATOM  43464  C   ARG J  51     213.834 128.984  12.349  1.00 44.34      JS10
ATOM  43465  O   ARG J  51     213.199 129.298  13.357  1.00 44.34      JS10
ATOM  43466  N   GLY J  52     213.856 127.741  11.883  1.00 37.92      JS10
ATOM  43467  CA  GLY J  52     213.115 126.708  12.583  1.00 37.92      JS10
ATOM  43468  C   GLY J  52     213.997 125.810  13.427  1.00 37.92      JS10
ATOM  43469  O   GLY J  52     215.229 125.930  13.406  1.00 37.92      JS10
ATOM  43470  N   PRO J  53     213.399 124.922  14.229  1.00 40.57      JS10
ATOM  43471  CD  PRO J  53     211.984 124.794  14.630  1.00 17.75      JS10
ATOM  43472  CA  PRO J  53     214.263 124.051  15.028  1.00 40.57      JS10
ATOM  43473  CB  PRO J  53     213.373 123.663  16.181  1.00 17.75      JS10
ATOM  43474  CG  PRO J  53     212.004 123.557  15.501  1.00 17.75      JS10
ATOM  43475  C   PRO J  53     214.544 122.871  14.129  1.00 40.57      JS10
ATOM  43476  O   PRO J  53     214.151 122.883  12.955  1.00 40.57      JS10
ATOM  43477  N   PHE J  54     215.195 121.852  14.674  1.00 59.79      JS10
ATOM  43478  CA  PHE J  54     215.509 120.641  13.916  1.00 59.79      JS10
ATOM  43479  CB  PHE J  54     214.482 119.565  14.200  1.00 62.00      JS10
ATOM  43480  CG  PHE J  54     214.832 118.251  13.603  1.00 62.00      JS10
ATOM  43481  CD1 PHE J  54     215.576 117.324  14.328  1.00 62.00      JS10
ATOM  43482  CD2 PHE J  54     214.442 117.945  12.309  1.00 62.00      JS10
ATOM  43483  CE1 PHE J  54     215.929 116.106  13.777  1.00 62.00      JS10
ATOM  43484  CE2 PHE J  54     214.785 116.732  11.739  1.00 62.00      JS10
ATOM  43485  CZ  PHE J  54     215.533 115.805  12.477  1.00 62.00      JS10
ATOM  43486  C   PHE J  54     215.589 120.797  12.403  1.00 59.79      JS10
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ATOM  43487  O   PHE J  54     214.567 120.942  11.728  1.00 59.79      JS10
ATOM  43488  N   LYS J  55     216.810 120.718  11.886  1.00 41.30      JS10
ATOM  43489  CA  LYS J  55     217.110 120.845  10.456  1.00 41.30      JS10
ATOM  43490  CB  LYS J  55     216.586 119.617   9.683  1.00 44.00      JS10
ATOM  43491  CG  LYS J  55     215.179 119.673   9.119  1.00 44.00      JS10
ATOM  43492  CD  LYS J  55     214.904 118.355   8.401  1.00 44.00      JS10
ATOM  43493  CE  LYS J  55     213.633 118.381   7.566  1.00 44.00      JS10
ATOM  43494  NZ  LYS J  55     213.422 117.100   6.805  1.00 44.00      JS10
ATOM  43495  C   LYS J  55     216.673 122.157   9.787  1.00 41.30      JS10
ATOM  43496  O   LYS J  55     216.475 123.164  10.460  1.00 41.30      JS10
ATOM  43497  N   HIS J  56     216.557 122.143   8.463  1.00 33.69      JS10
ATOM  43498  CA  HIS J  56     216.195 123.329   7.693  1.00 33.69      JS10
ATOM  43499  CB  HIS J  56     214.991 124.026   8.311  1.00 77.94      JS10
ATOM  43500  CG  HIS J  56     213.728 123.247   8.179  1.00 77.94      JS10
ATOM  43501  CD2 HIS J  56     212.922 122.689   9.111  1.00 77.94      JS10
ATOM  43502  ND1 HIS J  56     213.184 122.922   6.955  1.00 77.94      JS10
ATOM  43503  CE1 HIS J  56     212.099 122.193   7.139  1.00 77.94      JS10
ATOM  43504  NE2 HIS J  56     211.919 122.037   8.438  1.00 77.94      JS10
ATOM  43505  C   HIS J  56     217.351 124.327   7.550  1.00 33.69      JS10
ATOM  43506  O   HIS J  56     217.128 125.514   7.302  1.00 33.69      JS10
ATOM  43507  N   LYS J  57     218.581 123.830   7.688  1.00 26.10      JS10
ATOM  43508  CA  LYS J  57     219.795 124.637   7.573  1.00 26.10      JS10
ATOM  43509  CB  LYS J  57     220.870 123.860   6.792  1.00191.06      JS10
ATOM  43510  CG  LYS J  57     220.343 123.172   5.526  1.00191.06      JS10
ATOM  43511  CD  LYS J  57     221.439 122.517   4.662  1.00191.06      JS10
ATOM  43512  CE  LYS J  57     222.215 123.531   3.814  1.00191.06      JS10
ATOM  43513  NZ  LYS J  57     223.104 122.878   2.801  1.00191.06      JS10
ATOM  43514  C   LYS J  57     219.615 126.025   6.953  1.00 26.10      JS10
ATOM  43515  O   LYS J  57     219.887 127.014   7.600  1.00 26.10      JS10
ATOM  43516  N   ASP J  58     219.132 126.112   5.721  1.00 28.95      JS10
ATOM  43517  CA  ASP J  58     218.997 127.405   5.061  1.00 28.95      JS10
ATOM  43518  CB  ASP J  58     218.751 127.194   3.571  1.00115.12      JS10
ATOM  43519  CG  ASP J  58     219.723 126.213   2.962  1.00115.12      JS10
ATOM  43520  OD1 ASP J  58     220.944 126.470   3.009  1.00115.12      JS10
ATOM  43521  OD2 ASP J  58     219.264 125.178   2.438  1.00115.12      JS10
ATOM  43522  C   ASP J  58     217.934 128.353   5.602  1.00 28.95      JS10
ATOM  43523  O   ASP J  58     217.447 129.202   4.860  1.00 28.95      JS10
ATOM  43524  N   SER J  59     217.583 128.236   6.881  1.00 48.21      JS10
ATOM  43525  CA  SER J  59     216.561 129.103   7.472  1.00 48.21      JS10
ATOM  43526  CB  SER J  59     216.029 128.475   8.759  1.00145.49      JS10
ATOM  43527  OG  SER J  59     215.341 127.266   8.497  1.00145.49      JS10
ATOM  43528  C   SER J  59     217.117 130.489   7.766  1.00 48.21      JS10
ATOM  43529  O   SER J  59     216.979 131.395   6.961  1.00 48.21      JS10
ATOM  43530  N   ARG J  60     217.688 130.653   8.955  1.00 78.10      JS10
ATOM  43531  CA  ARG J  60     218.337 131.893   9.383  1.00 78.10      JS10
ATOM  43532  CB  ARG J  60     219.273 132.373   8.276  1.00 52.04      JS10
ATOM  43533  CG  ARG J  60     220.563 131.570   8.250  1.00 52.04      JS10
ATOM  43534  CD  ARG J  60     220.277 130.172   7.780  1.00 52.04      JS10
ATOM  43535  NE  ARG J  60     220.987 129.102   8.482  1.00 52.04      JS10
ATOM  43536  CZ  ARG J  60     222.300 129.037   8.678  1.00 52.04      JS10
ATOM  43537  NH1 ARG J  60     223.093 130.006   8.252  1.00 52.04      JS10
ATOM  43538  NH2 ARG J  60     222.826 127.947   9.230  1.00 52.04      JS10
ATOM  43539  C   ARG J  60     217.690 133.127  10.016  1.00 78.10      JS10
ATOM  43540  O   ARG J  60     217.721 133.257  11.232  1.00 78.10      JS10
ATOM  43541  N   GLU J  61     217.135 134.051   9.238  1.00 38.10      JS10
ATOM  43542  CA  GLU J  61     216.605 135.286   9.856  1.00 38.10      JS10
ATOM  43543  CB  GLU J  61     215.391 135.010  10.737  1.00 49.26      JS10
ATOM  43544  CG  GLU J  61     215.003 136.228  11.568  1.00 49.26      JS10
ATOM  43545  CD  GLU J  61     213.605 136.141  12.109  1.00 49.26      JS10
ATOM  43546  OE1 GLU J  61     213.328 135.200  12.882  1.00 49.26      JS10
ATOM  43547  OE2 GLU J  61     212.786 137.015  11.751  1.00 49.26      JS10
ATOM  43548  C   GLU J  61     217.668 136.019  10.731  1.00 38.10      JS10
ATOM  43549  O   GLU J  61     218.290 135.426  11.637  1.00 38.10      JS10
ATOM  43550  N   HIS J  62     217.837 137.319  10.494  1.00 71.42      JS10
ATOM  43551  CA  HIS J  62     218.853 138.090  11.209  1.00 71.42      JS10
ATOM  43552  CB  HIS J  62     219.718 138.825  10.189  1.00 78.37      JS10
ATOM  43553  CG  HIS J  62     220.818 137.981   9.631  1.00 78.37      JS10
ATOM  43554  CD2 HIS J  62     221.556 136.998  10.200  1.00 78.37      JS10
ATOM  43555  ND1 HIS J  62     221.273 138.105   8.337  1.00 78.37      JS10
ATOM  43556  CE1 HIS J  62     222.245 137.232   8.133  1.00 78.37      JS10
ATOM  43557  NE2 HIS J  62     222.436 136.549   9.248  1.00 78.37      JS10
ATOM  43558  C   HIS J  62     218.470 139.051  12.319  1.00 71.42      JS10
ATOM  43559  O   HIS J  62     217.490 139.782  12.225  1.00 71.42      JS10
ATOM  43560  N   PHE J  63     219.296 139.049  13.362  1.00 56.79      JS10
ATOM  43561  CA  PHE J  63     219.114 139.892  14.540  1.00 56.79      JS10
ATOM  43562  CB  PHE J  63     218.771 139.037  15.755  1.00 46.78      JS10
ATOM  43563  CG  PHE J  63     217.452 138.372  15.669  1.00 46.78      JS10
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ATOM  43564  CD1 PHE J  63     217.337 137.015  15.920  1.00 46.78      JS10
ATOM  43565  CD2 PHE J  63     216.311 139.106  15.349  1.00 46.78      JS10
ATOM  43566  CE1 PHE J  63     216.100 136.388  15.855  1.00 46.78      JS10
ATOM  43567  CE2 PHE J  63     215.064 138.491  15.282  1.00 46.78      JS10
ATOM  43568  CZ  PHE J  63     214.954 137.127  15.534  1.00 46.78      JS10
ATOM  43569  C   PHE J  63     220.383 140.647  14.876  1.00 56.79      JS10
ATOM  43570  O   PHE J  63     221.464 140.065  14.889  1.00 56.79      JS10
ATOM  43571  N   GLU J  64     220.259 141.936  15.159  1.00 54.50      JS10
ATOM  43572  CA  GLU J  64     221.426 142.706  15.547  1.00 54.50      JS10
ATOM  43573  CB  GLU J  64     221.875 143.648  14.417  1.00 93.94      JS10
ATOM  43574  CG  GLU J  64     220.770 144.284  13.613  1.00 93.94      JS10
ATOM  43575  CD  GLU J  64     220.086 145.422  14.336  1.00 93.94      JS10
ATOM  43576  OE1 GLU J  64     219.590 145.200  15.462  1.00 93.94      JS10
ATOM  43577  OE2 GLU J  64     220.039 146.539  13.773  1.00 93.94      JS10
ATOM  43578  C   GLU J  64     221.132 143.458  16.842  1.00 54.50      JS10
ATOM  43579  O   GLU J  64     220.013 143.406  17.344  1.00 54.50      JS10
ATOM  43580  N   LEU J  65     222.138 144.133  17.391  1.00 80.17      JS10
ATOM  43581  CA  LEU J  65     221.981 144.873  18.641  1.00 80.17      JS10
ATOM  43582  CB  LEU J  65     222.443 143.997  19.800  1.00 48.38      JS10
ATOM  43583  CG  LEU J  65     222.333 144.583  21.203  1.00 48.38      JS10
ATOM  43584  CD1 LEU J  65     220.915 145.082  21.425  1.00 48.38      JS10
ATOM  43585  CD2 LEU J  65     222.709 143.521  22.236  1.00 48.38      JS10
ATOM  43586  C   LEU J  65     222.767 146.186  18.648  1.00 80.17      JS10
ATOM  43587  O   LEU J  65     223.794 146.299  19.324  1.00 80.17      JS10
ATOM  43588  N   ARG J  66     222.274 147.177  17.908  1.00 58.69      JS10
ATOM  43589  CA  ARG J  66     222.939 148.465  17.816  1.00 58.69      JS10
ATOM  43590  CB  ARG J  66     222.178 149.366  16.839  1.00180.40      JS10
ATOM  43591  CG  ARG J  66     220.663 149.265  16.933  1.00180.40      JS10
ATOM  43592  CD  ARG J  66     219.980 150.027  15.793  1.00180.40      JS10
ATOM  43593  NE  ARG J  66     220.416 149.574  14.470  1.00180.40      JS10
ATOM  43594  CZ  ARG J  66     219.941 150.042  13.316  1.00180.40      JS10
ATOM  43595  NH1 ARG J  66     219.007 150.982  13.310  1.00180.40      JS10
ATOM  43596  NH2 ARG J  66     220.403 149.572  12.164  1.00180.40      JS10
ATOM  43597  C   ARG J  66     223.129 149.172  19.163  1.00 58.69      JS10
ATOM  43598  O   ARG J  66     222.159 149.613  19.788  1.00 58.69      JS10
ATOM  43599  N   THR J  67     224.395 149.250  19.594  1.00 74.40      JS10
ATOM  43600  CA  THR J  67     224.826 149.910  20.840  1.00 74.40      JS10
ATOM  43601  CB  THR J  67     225.910 149.087  21.593  1.00 53.89      JS10
ATOM  43602  OG1 THR J  67     225.370 147.826  22.005  1.00 53.89      JS10
ATOM  43603  CG2 THR J  67     226.403 149.833  22.811  1.00 53.89      JS10
ATOM  43604  C   THR J  67     225.488 151.199  20.377  1.00 74.40      JS10
ATOM  43605  O   THR J  67     226.646 151.184  19.980  1.00 74.40      JS10
ATOM  43606  N   HIS J  68     224.770 152.312  20.441  1.00121.61      JS10
ATOM  43607  CA  HIS J  68     225.308 153.580  19.960  1.00121.61      JS10
ATOM  43608  CB  HIS J  68     224.179 154.433  19.372  1.00 79.57      JS10
ATOM  43609  CG  HIS J  68     223.025 153.636  18.846  1.00 79.57      JS10
ATOM  43610  CD2 HIS J  68     222.541 152.421  19.197  1.00 79.57      JS10
ATOM  43611  ND1 HIS J  68     222.175 154.119  17.874  1.00 79.57      JS10
ATOM  43612  CE1 HIS J  68     221.218 153.236  17.652  1.00 79.57      JS10
ATOM  43613  NE2 HIS J  68     221.416 152.196  18.443  1.00 79.57      JS10
ATOM  43614  C   HIS J  68     226.076 154.400  20.994  1.00121.61      JS10
ATOM  43615  O   HIS J  68     225.945 154.182  22.200  1.00121.61      JS10
ATOM  43616  N   ASN J  69     226.876 155.349  20.508  1.00 78.08      JS10
ATOM  43617  CA  ASN J  69     227.671 156.210  21.379  1.00 78.08      JS10
ATOM  43618  CB  ASN J  69     229.161 155.928  21.173  1.00 85.09      JS10
ATOM  43619  CG  ASN J  69     229.537 154.502  21.525  1.00 85.09      JS10
ATOM  43620  OD1 ASN J  69     229.346 154.055  22.656  1.00 85.09      JS10
ATOM  43621  ND2 ASN J  69     230.077 153.778  20.553  1.00 85.09      JS10
ATOM  43622  C   ASN J  69     227.396 157.701  21.155  1.00 78.08      JS10
ATOM  43623  O   ASN J  69     226.763 158.082  20.168  1.00 78.08      JS10
ATOM  43624  N   ARG J  70     227.875 158.519  22.097  1.00130.94      JS10
ATOM  43625  CA  ARG J  70     227.746 159.982  22.087  1.00130.94      JS10
ATOM  43626  CB  ARG J  70     226.322 160.403  22.467  1.00 93.29      JS10
ATOM  43627  CG  ARG J  70     225.266 160.033  21.434  1.00 93.29      JS10
ATOM  43628  CD  ARG J  70     225.663 160.522  20.045  1.00 93.29      JS10
ATOM  43629  NE  ARG J  70     224.835 159.933  18.996  1.00 93.29      JS10
ATOM  43630  CZ  ARG J  70     223.732 160.492  18.508  1.00 93.29      JS10
ATOM  43631  NH1 ARG J  70     223.310 161.666  18.964  1.00 93.29      JS10
ATOM  43632  NH2 ARG J  70     223.043 159.874  17.559  1.00 93.29      JS10
ATOM  43633  C   ARG J  70     228.752 160.571  23.089  1.00130.94      JS10
ATOM  43634  O   ARG J  70     229.042 159.951  24.113  1.00130.94      JS10
ATOM  43635  N   LEU J  71     229.276 161.765  22.813  1.00141.89      JS10
ATOM  43636  CA  LEU J  71     230.269 162.350  23.712  1.00141.89      JS10
ATOM  43637  CB  LEU J  71     231.590 162.543  22.969  1.00111.54      JS10
ATOM  43638  CG  LEU J  71     232.844 162.286  23.811  1.00111.54      JS10
ATOM  43639  CD1 LEU J  71     232.903 163.258  24.977  1.00111.54      JS10
ATOM  43640  CD2 LEU J  71     232.824 160.850  24.318  1.00111.54      JS10
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ATOM  43641  C   LEU J  71     229.914 163.649  24.433  1.00141.89      JS10
ATOM  43642  O   LEU J  71     229.824 163.657  25.656  1.00141.89      JS10
ATOM  43643  N   VAL J  72     229.754 164.745  23.694  1.00136.47      JS10
ATOM  43644  CA  VAL J  72     229.413 166.045  24.289  1.00136.47      JS10
ATOM  43645  CB  VAL J  72     228.347 165.887  25.394  1.00 92.89      JS10
ATOM  43646  CG1 VAL J  72     227.983 167.238  25.978  1.00 92.89      JS10
ATOM  43647  CG2 VAL J  72     227.116 165.208  24.816  1.00 92.89      JS10
ATOM  43648  C   VAL J  72     230.615 166.815  24.860  1.00136.47      JS10
ATOM  43649  O   VAL J  72     231.105 167.746  24.221  1.00136.47      JS10
ATOM  43650  N   ASP J  73     231.068 166.447  26.061  1.00 89.81      JS10
ATOM  43651  CA  ASP J  73     232.226 167.094  26.704  1.00 89.81      JS10
ATOM  43652  CB  ASP J  73     233.396 167.148  25.715  1.00115.24      JS10
ATOM  43653  CG  ASP J  73     234.663 166.531  26.270  1.00115.24      JS10
ATOM  43654  OD1 ASP J  73     234.591 165.419  26.842  1.00115.24      JS10
ATOM  43655  OD2 ASP J  73     235.734 167.157  26.118  1.00115.24      JS10
ATOM  43656  C   ASP J  73     231.963 168.507  27.261  1.00 89.81      JS10
ATOM  43657  O   ASP J  73     231.775 169.462  26.500  1.00 89.81      JS10
ATOM  43658  N   ILE J  74     231.977 168.632  28.591  1.00102.38      JS10
ATOM  43659  CA  ILE J  74     231.730 169.912  29.268  1.00102.38      JS10
ATOM  43660  CB  ILE J  74     230.681 169.776  30.386  1.00128.03      JS10
ATOM  43661  CG2 ILE J  74     230.303 171.155  30.898  1.00128.03      JS10
ATOM  43662  CG1 ILE J  74     229.444 169.040  29.875  1.00128.03      JS10
ATOM  43663  CD1 ILE J  74     228.454 168.679  30.971  1.00128.03      JS10
ATOM  43664  C   ILE J  74     232.974 170.475  29.941  1.00102.38      JS10
ATOM  43665  O   ILE J  74     233.489 169.879  30.887  1.00102.38      JS10
ATOM  43666  N   ILE J  75     233.443 171.627  29.472  1.00200.74      JS10
ATOM  43667  CA  ILE J  75     234.617 172.260  30.062  1.00200.74      JS10
ATOM  43668  CB  ILE J  75     235.492 172.930  28.989  1.00190.23      JS10
ATOM  43669  CG2 ILE J  75     236.754 173.495  29.624  1.00190.23      JS10
ATOM  43670  CG1 ILE J  75     235.870 171.905  27.920  1.00190.23      JS10
ATOM  43671  CD1 ILE J  75     236.736 172.465  26.810  1.00190.23      JS10
ATOM  43672  C   ILE J  75     234.150 173.321  31.052  1.00200.74      JS10
ATOM  43673  O   ILE J  75     232.964 173.644  31.099  1.00200.74      JS10
ATOM  43674  N   ASN J  76     235.072 173.855  31.849  1.00 78.46      JS10
ATOM  43675  CA  ASN J  76     234.719 174.880  32.829  1.00 78.46      JS10
ATOM  43676  CB  ASN J  76     234.185 176.131  32.123  1.00161.57      JS10
ATOM  43677  CG  ASN J  76     235.213 176.769  31.214  1.00161.57      JS10
ATOM  43678  OD1 ASN J  76     236.319 177.100  31.645  1.00161.57      JS10
ATOM  43679  ND2 ASN J  76     234.853 176.951  29.949  1.00161.57      JS10
ATOM  43680  C   ASN J  76     233.684 174.398  33.851  1.00 78.46      JS10
ATOM  43681  O   ASN J  76     232.479 174.627  33.691  1.00 78.46      JS10
ATOM  43682  N   PRO J  77     234.148 173.718  34.914  1.00127.00      JS10
ATOM  43683  CD  PRO J  77     235.547 173.296  35.116  1.00162.71      JS10
ATOM  43684  CA  PRO J  77     233.289 173.195  35.981  1.00127.00      JS10
ATOM  43685  CB  PRO J  77     234.199 172.197  36.690  1.00162.71      JS10
ATOM  43686  CG  PRO J  77     235.542 172.840  36.558  1.00162.71      JS10
ATOM  43687  C   PRO J  77     232.811 174.318  36.906  1.00127.00      JS10
ATOM  43688  O   PRO J  77     233.467 174.654  37.895  1.00127.00      JS10
ATOM  43689  N   ASN J  78     231.660 174.890  36.572  1.00105.11      JS10
ATOM  43690  CA  ASN J  78     231.094 175.985  37.345  1.00105.11      JS10
ATOM  43691  CB  ASN J  78     230.606 177.085  36.399  1.00201.30      JS10
ATOM  43692  CG  ASN J  78     231.709 177.606  35.494  1.00201.30      JS10
ATOM  43693  OD1 ASN J  78     232.676 178.209  35.959  1.00201.30      JS10
ATOM  43694  ND2 ASN J  78     231.570 177.370  34.193  1.00201.30      JS10
ATOM  43695  C   ASN J  78     229.946 175.532  38.235  1.00105.11      JS10
ATOM  43696  O   ASN J  78     228.786 175.829  37.957  1.00105.11      JS10
ATOM  43697  N   ARG J  79     230.289 174.816  39.302  1.00141.34      JS10
ATOM  43698  CA  ARG J  79     229.324 174.311  40.275  1.00141.34      JS10
ATOM  43699  CB  ARG J  79     229.332 175.208  41.515  1.00149.19      JS10
ATOM  43700  CG  ARG J  79     230.194 174.680  42.642  1.00149.19      JS10
ATOM  43701  CD  ARG J  79     229.571 173.427  43.232  1.00149.19      JS10
ATOM  43702  NE  ARG J  79     230.345 172.871  44.339  1.00149.19      JS10
ATOM  43703  CZ  ARG J  79     231.516 172.258  44.203  1.00149.19      JS10
ATOM  43704  NH1 ARG J  79     232.057 172.117  42.999  1.00149.19      JS10
ATOM  43705  NH2 ARG J  79     232.144 171.780  45.270  1.00149.19      JS10
ATOM  43706  C   ARG J  79     227.890 174.136  39.783  1.00141.34      JS10
ATOM  43707  O   ARG J  79     227.469 173.018  39.493  1.00141.34      JS10
ATOM  43708  N   LYS J  80     227.145 175.239  39.701  1.00154.47      JS10
ATOM  43709  CA  LYS J  80     225.746 175.214  39.260  1.00154.47      JS10
ATOM  43710  CB  LYS J  80     225.254 176.636  38.969  1.00185.65      JS10
ATOM  43711  CG  LYS J  80     223.792 176.712  38.533  1.00185.65      JS10
ATOM  43712  CD  LYS J  80     222.840 176.237  39.628  1.00185.65      JS10
ATOM  43713  CE  LYS J  80     222.881 177.151  40.849  1.00185.65      JS10
ATOM  43714  NZ  LYS J  80     221.915 176.737  41.907  1.00185.65      JS10
ATOM  43715  C   LYS J  80     225.504 174.333  38.035  1.00154.47      JS10
ATOM  43716  O   LYS J  80     224.472 173.666  37.938  1.00154.47      JS10
ATOM  43717  N   THR J  81     226.448 174.344  37.096  1.00200.97      JS10
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ATOM  43718  CA  THR J  81     226.326 173.525  35.895  1.00200.97      JS10
ATOM  43719  CB  THR J  81     227.660 173.459  35.110  1.00114.52      JS10
ATOM  43720  OG1 THR J  81     228.696 172.931  35.953  1.00114.52      JS10
ATOM  43721  CG2 THR J  81     228.060 174.840  34.625  1.00114.52      JS10
ATOM  43722  C   THR J  81     225.963 172.124  36.362  1.00200.97      JS10
ATOM  43723  O   THR J  81     225.106 171.457  35.783  1.00200.97      JS10
ATOM  43724  N   ILE J  82     226.623 171.705  37.435  1.00116.13      JS10
ATOM  43725  CA  ILE J  82     226.409 170.400  38.034  1.00116.13      JS10
ATOM  43726  CB  ILE J  82     227.460 170.121  39.125  1.00 96.97      JS10
ATOM  43727  CG2 ILE J  82     227.208 168.768  39.765  1.00 96.97      JS10
ATOM  43728  CG1 ILE J  82     228.861 170.168  38.518  1.00 96.97      JS10
ATOM  43729  CD1 ILE J  82     229.966 169.920  39.525  1.00 96.97      JS10
ATOM  43730  C   ILE J  82     225.021 170.306  38.659  1.00116.13      JS10
ATOM  43731  O   ILE J  82     224.371 169.267  38.575  1.00116.13      JS10
ATOM  43732  N   GLU J  83     224.569 171.386  39.289  1.00117.22      JS10
ATOM  43733  CA  GLU J  83     223.252 171.395  39.924  1.00117.22      JS10
ATOM  43734  CB  GLU J  83     222.911 172.803  40.418  1.00201.30      JS10
ATOM  43735  CG  GLU J  83     223.221 173.037  41.893  1.00201.30      JS10
ATOM  43736  CD  GLU J  83     224.641 172.650  42.274  1.00201.30      JS10
ATOM  43737  OE1 GLU J  83     224.989 171.454  42.166  1.00201.30      JS10
ATOM  43738  OE2 GLU J  83     225.410 173.544  42.686  1.00201.30      JS10
ATOM  43739  C   GLU J  83     222.173 170.897  38.971  1.00117.22      JS10
ATOM  43740  O   GLU J  83     221.164 170.325  39.392  1.00117.22      JS10
ATOM  43741  N   GLN J  84     222.398 171.117  37.683  1.00176.34      JS10
ATOM  43742  CA  GLN J  84     221.464 170.680  36.660  1.00176.34      JS10
ATOM  43743  CB  GLN J  84     221.651 171.527  35.407  1.00174.56      JS10
ATOM  43744  CG  GLN J  84     221.697 173.012  35.699  1.00174.56      JS10
ATOM  43745  CD  GLN J  84     221.983 173.834  34.465  1.00174.56      JS10
ATOM  43746  OE1 GLN J  84     221.221 173.805  33.500  1.00174.56      JS10
ATOM  43747  NE2 GLN J  84     223.088 174.574  34.487  1.00174.56      JS10
ATOM  43748  C   GLN J  84     221.772 169.216  36.363  1.00176.34      JS10
ATOM  43749  O   GLN J  84     220.867 168.396  36.201  1.00176.34      JS10
ATOM  43750  N   LEU J  85     223.065 168.901  36.306  1.00147.11      JS10
ATOM  43751  CA  LEU J  85     223.535 167.543  36.043  1.00147.11      JS10
ATOM  43752  CB  LEU J  85     224.966 167.569  35.484  1.00 92.81      JS10
ATOM  43753  CG  LEU J  85     225.336 168.557  34.369  1.00 92.81      JS10
ATOM  43754  CD1 LEU J  85     226.770 168.286  33.941  1.00 92.81      JS10
ATOM  43755  CD2 LEU J  85     224.389 168.424  33.178  1.00 92.81      JS10
ATOM  43756  C   LEU J  85     223.521 166.737  37.344  1.00147.11      JS10
ATOM  43757  O   LEU J  85     224.501 166.063  37.682  1.00147.11      JS10
ATOM  43758  N   MET J  86     222.409 166.810  38.071  1.00172.42      JS10
ATOM  43759  CA  MET J  86     222.288 166.094  39.332  1.00172.42      JS10
ATOM  43760  CB  MET J  86     222.266 167.085  40.497  1.00201.30      JS10
ATOM  43761  CG  MET J  86     223.219 166.720  41.624  1.00201.30      JS10
ATOM  43762  SD  MET J  86     224.953 166.715  41.103  1.00201.30      JS10
ATOM  43763  CE  MET J  86     225.156 165.021  40.534  1.00201.30      JS10
ATOM  43764  C   MET J  86     221.054 165.200  39.395  1.00172.42      JS10
ATOM  43765  O   MET J  86     221.175 163.977  39.479  1.00172.42      JS10
ATOM  43766  N   THR J  87     219.870 165.804  39.359  1.00201.30      JS10
ATOM  43767  CA  THR J  87     218.633 165.031  39.416  1.00201.30      JS10
ATOM  43768  CB  THR J  87     217.981 165.125  40.809  1.00176.17      JS10
ATOM  43769  OG1 THR J  87     218.941 164.755  41.806  1.00176.17      JS10
ATOM  43770  CG2 THR J  87     216.786 164.183  40.906  1.00176.17      JS10
ATOM  43771  C   THR J  87     217.626 165.483  38.363  1.00201.30      JS10
ATOM  43772  O   THR J  87     216.567 164.873  38.199  1.00201.30      JS10
ATOM  43773  N   LEU J  88     217.957 166.556  37.652  1.00201.30      JS10
ATOM  43774  CA  LEU J  88     217.090 167.069  36.598  1.00201.30      JS10
ATOM  43775  CB  LEU J  88     217.492 168.507  36.251  1.00119.15      JS10
ATOM  43776  CG  LEU J  88     217.411 169.519  37.400  1.00119.15      JS10
ATOM  43777  CD1 LEU J  88     218.020 170.847  36.977  1.00119.15      JS10
ATOM  43778  CD2 LEU J  88     215.959 169.700  37.812  1.00119.15      JS10
ATOM  43779  C   LEU J  88     217.285 166.148  35.392  1.00201.30      JS10
ATOM  43780  O   LEU J  88     217.540 166.602  34.276  1.00201.30      JS10
ATOM  43781  N   ASP J  89     217.154 164.846  35.643  1.00200.96      JS10
ATOM  43782  CA  ASP J  89     217.348 163.812  34.629  1.00200.96      JS10
ATOM  43783  CB  ASP J  89     218.667 163.097  34.917  1.00123.20      JS10
ATOM  43784  CG  ASP J  89     219.640 163.974  35.703  1.00123.20      JS10
ATOM  43785  OD1 ASP J  89     220.071 165.023  35.173  1.00123.20      JS10
ATOM  43786  OD2 ASP J  89     219.961 163.618  36.857  1.00123.20      JS10
ATOM  43787  C   ASP J  89     216.189 162.810  34.648  1.00200.96      JS10
ATOM  43788  O   ASP J  89     215.378 162.820  35.574  1.00200.96      JS10
ATOM  43789  N   LEU J  90     216.108 161.944  33.636  1.00201.30      JS10
ATOM  43790  CA  LEU J  90     215.014 160.974  33.580  1.00201.30      JS10
ATOM  43791  CB  LEU J  90     213.756 161.641  33.000  1.00150.42      JS10
ATOM  43792  CG  LEU J  90     213.217 162.960  33.570  1.00150.42      JS10
ATOM  43793  CD1 LEU J  90     214.045 164.140  33.067  1.00150.42      JS10
ATOM  43794  CD2 LEU J  90     211.770 163.135  33.134  1.00150.42      JS10
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ATOM  43795  C   LEU J  90     215.236 159.643  32.831  1.00201.30      JS10
ATOM  43796  O   LEU J  90     215.058 158.573  33.410  1.00201.30      JS10
ATOM  43797  N   PRO J  91     215.637 159.697  31.543  1.00184.07      JS10
ATOM  43798  CD  PRO J  91     216.326 160.877  30.997  1.00134.77      JS10
ATOM  43799  CA  PRO J  91     215.883 158.536  30.667  1.00184.07      JS10
ATOM  43800  CB  PRO J  91     216.905 159.073  29.656  1.00134.77      JS10
ATOM  43801  CG  PRO J  91     217.521 160.249  30.352  1.00134.77      JS10
ATOM  43802  C   PRO J  91     216.305 157.188  31.272  1.00184.07      JS10
ATOM  43803  O   PRO J  91     217.089 157.134  32.222  1.00184.07      JS10
ATOM  43804  N   THR J  92     215.776 156.105  30.693  1.00 83.67      JS10
ATOM  43805  CA  THR J  92     216.060 154.732  31.135  1.00 83.67      JS10
ATOM  43806  CB  THR J  92     214.774 153.954  31.402  1.00 61.21      JS10
ATOM  43807  OG1 THR J  92     213.969 154.688  32.325  1.00 61.21      JS10
ATOM  43808  CG2 THR J  92     215.090 152.574  31.980  1.00 61.21      JS10
ATOM  43809  C   THR J  92     216.856 153.921  30.120  1.00 83.67      JS10
ATOM  43810  O   THR J  92     217.777 153.189  30.483  1.00 83.67      JS10
ATOM  43811  N   GLY J  93     216.470 154.026  28.852  1.00160.81      JS10
ATOM  43812  CA  GLY J  93     217.173 153.306  27.808  1.00160.81      JS10
ATOM  43813  C   GLY J  93     218.487 154.012  27.570  1.00160.81      JS10
ATOM  43814  O   GLY J  93     218.918 154.191  26.430  1.00160.81      JS10
ATOM  43815  N   VAL J  94     219.113 154.421  28.670  1.00 98.81      JS10
ATOM  43816  CA  VAL J  94     220.381 155.136  28.645  1.00 98.81      JS10
ATOM  43817  CB  VAL J  94     220.180 156.630  28.899  1.00 37.74      JS10
ATOM  43818  CG1 VAL J  94     221.492 157.368  28.698  1.00 37.74      JS10
ATOM  43819  CG2 VAL J  94     219.099 157.178  27.986  1.00 37.74      JS10
ATOM  43820  C   VAL J  94     221.328 154.635  29.721  1.00 98.81      JS10
ATOM  43821  O   VAL J  94     221.018 153.708  30.463  1.00 98.81      JS10
ATOM  43822  N   GLU J  95     222.482 155.280  29.803  1.00 65.51      JS10
ATOM  43823  CA  GLU J  95     223.502 154.937  30.776  1.00 65.51      JS10
ATOM  43824  CB  GLU J  95     223.858 153.453  30.644  1.00105.40      JS10
ATOM  43825  CG  GLU J  95     224.796 152.932  31.704  1.00105.40      JS10
ATOM  43826  CD  GLU J  95     226.231 152.891  31.227  1.00105.40      JS10
ATOM  43827  OE1 GLU J  95     226.718 153.916  30.703  1.00105.40      JS10
ATOM  43828  OE2 GLU J  95     226.873 151.830  31.378  1.00105.40      JS10
ATOM  43829  C   GLU J  95     224.712 155.837  30.500  1.00 65.51      JS10
ATOM  43830  O   GLU J  95     225.333 155.759  29.436  1.00 65.51      JS10
ATOM  43831  N   ILE J  96     225.035 156.696  31.467  1.00116.84      JS10
ATOM  43832  CA  ILE J  96     226.137 157.646  31.329  1.00116.84      JS10
ATOM  43833  CB  ILE J  96     225.776 159.030  31.898  1.00 84.14      JS10
ATOM  43834  CG2 ILE J  96     226.649 160.092  31.252  1.00 84.14      JS10
ATOM  43835  CG1 ILE J  96     224.303 159.341  31.655  1.00 84.14      JS10
ATOM  43836  CD1 ILE J  96     223.347 158.562  32.547  1.00 84.14      JS10
ATOM  43837  C   ILE J  96     227.436 157.254  32.007  1.00116.84      JS10
ATOM  43838  O   ILE J  96     227.449 156.571  33.033  1.00116.84      JS10
ATOM  43839  N   GLU J  97     228.530 157.722  31.420  1.00 75.69      JS10
ATOM  43840  CA  GLU J  97     229.862 157.481  31.947  1.00 75.69      JS10
ATOM  43841  CB  GLU J  97     230.695 156.657  30.963  1.00139.65      JS10
ATOM  43842  CG  GLU J  97     231.236 155.363  31.555  1.00139.65      JS10
ATOM  43843  CD  GLU J  97     232.153 155.602  32.737  1.00139.65      JS10
ATOM  43844  OE1 GLU J  97     233.276 156.104  32.524  1.00139.65      JS10
ATOM  43845  OE2 GLU J  97     231.747 155.294  33.878  1.00139.65      JS10
ATOM  43846  C   GLU J  97     230.462 158.863  32.109  1.00 75.69      JS10
ATOM  43847  O   GLU J  97     230.461 159.660  31.168  1.00 75.69      JS10
ATOM  43848  N   ILE J  98     230.960 159.156  33.304  1.00179.67      JS10
ATOM  43849  CA  ILE J  98     231.537 160.465  33.561  1.00179.67      JS10
ATOM  43850  CB  ILE J  98     230.614 161.307  34.458  1.00 91.58      JS10
ATOM  43851  CG2 ILE J  98     231.060 162.760  34.438  1.00 91.58      JS10
ATOM  43852  CG1 ILE J  98     229.174 161.210  33.959  1.00 91.58      JS10
ATOM  43853  CD1 ILE J  98     228.193 162.043  34.754  1.00 91.58      JS10
ATOM  43854  C   ILE J  98     232.910 160.413  34.214  1.00179.67      JS10
ATOM  43855  O   ILE J  98     233.117 159.726  35.215  1.00179.67      JS10
ATOM  43856  N   LYS J  99     233.843 161.151  33.625  1.00104.84      JS10
ATOM  43857  CA  LYS J  99     235.207 161.248  34.124  1.00104.84      JS10
ATOM  43858  CB  LYS J  99     236.053 160.054  33.667  1.00185.40      JS10
ATOM  43859  CG  LYS J  99     235.862 158.791  34.498  1.00185.40      JS10
ATOM  43860  CD  LYS J  99     236.890 157.731  34.130  1.00185.40      JS10
ATOM  43861  CE  LYS J  99     236.770 156.504  35.018  1.00185.40      JS10
ATOM  43862  NZ  LYS J  99     237.805 155.487  34.682  1.00185.40      JS10
ATOM  43863  C   LYS J  99     235.806 162.543  33.596  1.00104.84      JS10
ATOM  43864  O   LYS J  99     235.388 163.045  32.552  1.00104.84      JS10
ATOM  43865  N   ALA J 100     236.779 163.084  34.323  1.00201.30      JS10
ATOM  43866  CA  ALA J 100     237.427 164.328  33.929  1.00201.30      JS10
ATOM  43867  CB  ALA J 100     237.143 165.408  34.970  1.00107.32      JS10
ATOM  43868  C   ALA J 100     238.934 164.135  33.763  1.00201.30      JS10
ATOM  43869  O   ALA J 100     239.422 163.025  34.068  1.00201.30      JS10
ATOM  43870  OXT ALA J 100     239.609 165.095  33.330  1.00107.32      JS10
TER   43870       ALA J 100                                             JS10
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ATOM  43871  CB  LYS K  11     226.952 114.721 -81.983  1.00153.21      KS11
ATOM  43872  CG  LYS K  11     228.455 114.937 -81.839  1.00153.21      KS11
ATOM  43873  CD  LYS K  11     228.973 114.384 -80.526  1.00153.21      KS11
ATOM  43874  CE  LYS K  11     230.448 114.672 -80.351  1.00153.21      KS11
ATOM  43875  NZ  LYS K  11     230.946 114.111 -79.068  1.00153.21      KS11
ATOM  43876  C   LYS K  11     224.671 115.566 -81.392  1.00100.40      KS11
ATOM  43877  O   LYS K  11     223.870 114.629 -81.331  1.00100.40      KS11
ATOM  43878  N   LYS K  11     226.172 114.629 -79.628  1.00100.40      KS11
ATOM  43879  CA  LYS K  11     226.106 115.402 -80.900  1.00100.40      KS11
ATOM  43880  N   ARG K  12     224.367 116.768 -81.880  1.00 93.31      KS11
ATOM  43881  CA  ARG K  12     223.045 117.121 -82.390  1.00 93.31      KS11
ATOM  43882  CB  ARG K  12     221.962 116.755 -81.372  1.00158.86      KS11
ATOM  43883  CG  ARG K  12     221.093 115.573 -81.761  1.00158.86      KS11
ATOM  43884  CD  ARG K  12     220.093 115.265 -80.659  1.00158.86      KS11
ATOM  43885  NE  ARG K  12     219.113 114.260 -81.057  1.00158.86      KS11
ATOM  43886  CZ  ARG K  12     218.129 113.825 -80.274  1.00158.86      KS11
ATOM  43887  NH1 ARG K  12     217.990 114.302 -79.045  1.00158.86      KS11
ATOM  43888  NH2 ARG K  12     217.277 112.917 -80.723  1.00158.86      KS11
ATOM  43889  C   ARG K  12     222.977 118.621 -82.664  1.00 93.31      KS11
ATOM  43890  O   ARG K  12     222.738 119.044 -83.791  1.00 93.31      KS11
ATOM  43891  N   GLN K  13     223.201 119.417 -81.622  1.00150.67      KS11
ATOM  43892  CA  GLN K  13     223.142 120.872 -81.726  1.00150.67      KS11
ATOM  43893  CB  GLN K  13     224.063 121.371 -82.839  1.00165.89      KS11
ATOM  43894  CG  GLN K  13     225.519 121.010 -82.603  1.00165.89      KS11
ATOM  43895  CD  GLN K  13     226.008 121.442 -81.232  1.00165.89      KS11
ATOM  43896  OE1 GLN K  13     226.030 122.633 -80.913  1.00165.89      KS11
ATOM  43897  NE2 GLN K  13     226.399 120.472 -80.411  1.00165.89      KS11
ATOM  43898  C   GLN K  13     221.698 121.260 -82.003  1.00150.67      KS11
ATOM  43899  O   GLN K  13     221.208 121.128 -83.127  1.00150.67      KS11
ATOM  43900  N   VAL K  14     221.023 121.748 -80.966  1.00 90.02      KS11
ATOM  43901  CA  VAL K  14     219.620 122.100 -81.076  1.00 90.02      KS11
ATOM  43902  CB  VAL K  14     218.810 121.243 -80.105  1.00 62.51      KS11
ATOM  43903  CG1 VAL K  14     217.365 121.712 -80.069  1.00 62.51      KS11
ATOM  43904  CG2 VAL K  14     218.892 119.785 -80.538  1.00 62.51      KS11
ATOM  43905  C   VAL K  14     219.232 123.562 -80.888  1.00 90.02      KS11
ATOM  43906  O   VAL K  14     218.348 124.058 -81.592  1.00 90.02      KS11
ATOM  43907  N   ALA K  15     219.873 124.240 -79.941  1.00 91.14      KS11
ATOM  43908  CA  ALA K  15     219.587 125.650 -79.663  1.00 91.14      KS11
ATOM  43909  CB  ALA K  15     219.279 126.398 -80.952  1.00 41.59      KS11
ATOM  43910  C   ALA K  15     218.429 125.822 -78.696  1.00 91.14      KS11
ATOM  43911  O   ALA K  15     218.631 126.155 -77.530  1.00 91.14      KS11
ATOM  43912  N   SER K  16     217.214 125.601 -79.194  1.00100.03      KS11
ATOM  43913  CA  SER K  16     216.006 125.733 -78.388  1.00100.03      KS11
ATOM  43914  CB  SER K  16     215.110 126.819 -78.982  1.00117.13      KS11
ATOM  43915  OG  SER K  16     214.968 126.643 -80.381  1.00117.13      KS11
ATOM  43916  C   SER K  16     215.230 124.420 -78.281  1.00100.03      KS11
ATOM  43917  O   SER K  16     215.266 123.591 -79.191  1.00100.03      KS11
ATOM  43918  N   GLY K  17     214.529 124.244 -77.162  1.00 73.83      KS11
ATOM  43919  CA  GLY K  17     213.749 123.036 -76.939  1.00 73.83      KS11
ATOM  43920  C   GLY K  17     212.980 123.085 -75.630  1.00 73.83      KS11
ATOM  43921  O   GLY K  17     212.755 124.165 -75.087  1.00 73.83      KS11
ATOM  43922  N   ARG K  18     212.585 121.921 -75.116  1.00 45.60      KS11
ATOM  43923  CA  ARG K  18     211.835 121.847 -73.865  1.00 45.60      KS11
ATOM  43924  CB  ARG K  18     210.670 120.867 -73.998  1.00 81.06      KS11
ATOM  43925  CG  ARG K  18     209.456 121.445 -74.676  1.00 81.06      KS11
ATOM  43926  CD  ARG K  18     209.578 121.409 -76.184  1.00 81.06      KS11
ATOM  43927  NE  ARG K  18     208.999 120.195 -76.756  1.00 81.06      KS11
ATOM  43928  CZ  ARG K  18     207.721 119.841 -76.631  1.00 81.06      KS11
ATOM  43929  NH1 ARG K  18     206.884 120.607 -75.945  1.00 81.06      KS11
ATOM  43930  NH2 ARG K  18     207.273 118.730 -77.209  1.00 81.06      KS11
ATOM  43931  C   ARG K  18     212.628 121.487 -72.606  1.00 45.60      KS11
ATOM  43932  O   ARG K  18     213.631 120.767 -72.647  1.00 45.60      KS11
ATOM  43933  N   ALA K  19     212.143 122.008 -71.482  1.00 73.55      KS11
ATOM  43934  CA  ALA K  19     212.736 121.772 -70.174  1.00 73.55      KS11
ATOM  43935  CB  ALA K  19     213.313 123.043 -69.622  1.00 21.12      KS11
ATOM  43936  C   ALA K  19     211.641 121.275 -69.254  1.00 73.55      KS11
ATOM  43937  O   ALA K  19     210.846 122.055 -68.730  1.00 73.55      KS11
ATOM  43938  N   TYR K  20     211.598 119.967 -69.073  1.00 35.15      KS11
ATOM  43939  CA  TYR K  20     210.605 119.358 -68.219  1.00 35.15      KS11
ATOM  43940  CB  TYR K  20     210.223 117.989 -68.776  1.00 48.77      KS11
ATOM  43941  CG  TYR K  20     209.389 118.037 -70.037  1.00 48.77      KS11
ATOM  43942  CD1 TYR K  20     209.945 118.393 -71.254  1.00 48.77      KS11
ATOM  43943  CE1 TYR K  20     209.175 118.414 -72.420  1.00 48.77      KS11
ATOM  43944  CD2 TYR K  20     208.036 117.707 -70.010  1.00 48.77      KS11
ATOM  43945  CE2 TYR K  20     207.262 117.727 -71.160  1.00 48.77      KS11
ATOM  43946  CZ  TYR K  20     207.836 118.080 -72.362  1.00 48.77      KS11
ATOM  43947  OH  TYR K  20     207.067 118.098 -73.502  1.00 48.77      KS11
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ATOM  43948  C   TYR K  20     211.100 119.225 -66.776  1.00 35.15      KS11
ATOM  43949  O   TYR K  20     212.142 118.605 -66.499  1.00 35.15      KS11
ATOM  43950  N   ILE K  21     210.348 119.822 -65.859  1.00 45.37      KS11
ATOM  43951  CA  ILE K  21     210.687 119.768 -64.447  1.00 45.37      KS11
ATOM  43952  CB  ILE K  21     210.697 121.167 -63.819  1.00 32.70      KS11
ATOM  43953  CG2 ILE K  21     211.357 121.119 -62.458  1.00 32.70      KS11
ATOM  43954  CG1 ILE K  21     211.469 122.124 -64.724  1.00 32.70      KS11
ATOM  43955  CD1 ILE K  21     211.574 123.534 -64.194  1.00 32.70      KS11
ATOM  43956  C   ILE K  21     209.628 118.928 -63.767  1.00 45.37      KS11
ATOM  43957  O   ILE K  21     208.478 119.342 -63.644  1.00 45.37      KS11
ATOM  43958  N   HIS K  22     210.036 117.741 -63.339  1.00 50.15      KS11
ATOM  43959  CA  HIS K  22     209.166 116.786 -62.666  1.00 50.15      KS11
ATOM  43960  CB  HIS K  22     209.505 115.395 -63.157  1.00 57.30      KS11
ATOM  43961  CG  HIS K  22     208.743 114.312 -62.475  1.00 57.30      KS11
ATOM  43962  CD2 HIS K  22     209.138 113.370 -61.589  1.00 57.30      KS11
ATOM  43963  ND1 HIS K  22     207.409 114.074 -62.720  1.00 57.30      KS11
ATOM  43964  CE1 HIS K  22     207.015 113.026 -62.022  1.00 57.30      KS11
ATOM  43965  NE2 HIS K  22     208.046 112.579 -61.327  1.00 57.30      KS11
ATOM  43966  C   HIS K  22     209.366 116.835 -61.157  1.00 50.15      KS11
ATOM  43967  O   HIS K  22     210.116 116.029 -60.609  1.00 50.15      KS11
ATOM  43968  N   ALA K  23     208.691 117.766 -60.489  1.00 37.23      KS11
ATOM  43969  CA  ALA K  23     208.823 117.931 -59.042  1.00 37.23      KS11
ATOM  43970  CB  ALA K  23     208.507 119.369 -58.667  1.00 33.94      KS11
ATOM  43971  C   ALA K  23     207.977 116.976 -58.195  1.00 37.23      KS11
ATOM  43972  O   ALA K  23     206.911 116.530 -58.605  1.00 37.23      KS11
ATOM  43973  N   SER K  24     208.465 116.673 -56.999  1.00 37.86      KS11
ATOM  43974  CA  SER K  24     207.774 115.781 -56.079  1.00 37.86      KS11
ATOM  43975  CB  SER K  24     207.976 114.331 -56.508  1.00 35.71      KS11
ATOM  43976  OG  SER K  24     208.497 113.547 -55.446  1.00 35.71      KS11
ATOM  43977  C   SER K  24     208.331 115.980 -54.673  1.00 37.86      KS11
ATOM  43978  O   SER K  24     209.354 116.643 -54.484  1.00 37.86      KS11
ATOM  43979  N   TYR K  25     207.667 115.415 -53.676  1.00 92.28      KS11
ATOM  43980  CA  TYR K  25     208.160 115.564 -52.321  1.00 92.28      KS11
ATOM  43981  CB  TYR K  25     207.038 115.350 -51.306  1.00144.11      KS11
ATOM  43982  CG  TYR K  25     206.013 116.458 -51.299  1.00144.11      KS11
ATOM  43983  CD1 TYR K  25     204.981 116.488 -52.235  1.00144.11      KS11
ATOM  43984  CE1 TYR K  25     204.055 117.529 -52.249  1.00144.11      KS11
ATOM  43985  CD2 TYR K  25     206.095 117.499 -50.374  1.00144.11      KS11
ATOM  43986  CE2 TYR K  25     205.177 118.544 -50.380  1.00144.11      KS11
ATOM  43987  CZ  TYR K  25     204.159 118.555 -51.320  1.00144.11      KS11
ATOM  43988  OH  TYR K  25     203.252 119.594 -51.335  1.00144.11      KS11
ATOM  43989  C   TYR K  25     209.273 114.568 -52.074  1.00 92.28      KS11
ATOM  43990  O   TYR K  25     209.805 114.492 -50.965  1.00 92.28      KS11
ATOM  43991  N   ASN K  26     209.631 113.814 -53.112  1.00 42.60      KS11
ATOM  43992  CA  ASN K  26     210.680 112.811 -52.984  1.00 42.60      KS11
ATOM  43993  CB  ASN K  26     210.143 111.436 -53.314  1.00 39.57      KS11
ATOM  43994  CG  ASN K  26     209.709 110.703 -52.094  1.00 39.57      KS11
ATOM  43995  OD1 ASN K  26     210.362 110.782 -51.052  1.00 39.57      KS11
ATOM  43996  ND2 ASN K  26     208.607 109.972 -52.202  1.00 39.57      KS11
ATOM  43997  C   ASN K  26     211.940 113.015 -53.782  1.00 42.60      KS11
ATOM  43998  O   ASN K  26     212.993 112.454 -53.431  1.00 42.60      KS11
ATOM  43999  N   ASN K  27     211.828 113.804 -54.847  1.00 34.25      KS11
ATOM  44000  CA  ASN K  27     212.948 114.083 -55.735  1.00 34.25      KS11
ATOM  44001  CB  ASN K  27     213.479 112.765 -56.324  1.00 45.07      KS11
ATOM  44002  CG  ASN K  27     214.631 112.963 -57.300  1.00 45.07      KS11
ATOM  44003  OD1 ASN K  27     215.328 113.972 -57.274  1.00 45.07      KS11
ATOM  44004  ND2 ASN K  27     214.845 111.975 -58.155  1.00 45.07      KS11
ATOM  44005  C   ASN K  27     212.490 115.009 -56.854  1.00 34.25      KS11
ATOM  44006  O   ASN K  27     211.326 115.405 -56.917  1.00 34.25      KS11
ATOM  44007  N   THR K  28     213.419 115.359 -57.731  1.00 47.89      KS11
ATOM  44008  CA  THR K  28     213.129 116.228 -58.856  1.00 47.89      KS11
ATOM  44009  CB  THR K  28     213.518 117.681 -58.577  1.00 59.91      KS11
ATOM  44010  OG1 THR K  28     212.928 118.111 -57.346  1.00 59.91      KS11
ATOM  44011  CG2 THR K  28     213.056 118.572 -59.707  1.00 59.91      KS11
ATOM  44012  C   THR K  28     213.998 115.767 -59.995  1.00 47.89      KS11
ATOM  44013  O   THR K  28     215.223 115.743 -59.875  1.00 47.89      KS11
ATOM  44014  N   ILE K  29     213.384 115.356 -61.091  1.00 18.09      KS11
ATOM  44015  CA  ILE K  29     214.199 114.976 -62.217  1.00 18.09      KS11
ATOM  44016  CB  ILE K  29     213.863 113.528 -62.761  1.00 19.34      KS11
ATOM  44017  CG2 ILE K  29     213.464 112.601 -61.639  1.00 19.34      KS11
ATOM  44018  CG1 ILE K  29     212.734 113.571 -63.768  1.00 19.34      KS11
ATOM  44019  CD1 ILE K  29     213.224 113.826 -65.157  1.00 19.34      KS11
ATOM  44020  C   ILE K  29     213.880 116.091 -63.208  1.00 18.09      KS11
ATOM  44021  O   ILE K  29     212.769 116.630 -63.223  1.00 18.09      KS11
ATOM  44022  N   VAL K  30     214.878 116.489 -63.981  1.00 31.90      KS11
ATOM  44023  CA  VAL K  30     214.700 117.535 -64.969  1.00 31.90      KS11
ATOM  44024  CB  VAL K  30     215.602 118.714 -64.689  1.00 32.83      KS11
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ATOM  44025  CG1 VAL K  30     215.674 119.597 -65.915  1.00 32.83      KS11
ATOM  44026  CG2 VAL K  30     215.084 119.476 -63.495  1.00 32.83      KS11
ATOM  44027  C   VAL K  30     215.121 116.932 -66.274  1.00 31.90      KS11
ATOM  44028  O   VAL K  30     216.176 116.317 -66.354  1.00 31.90      KS11
ATOM  44029  N   THR K  31     214.308 117.100 -67.301  1.00 22.74      KS11
ATOM  44030  CA  THR K  31     214.648 116.526 -68.586  1.00 22.74      KS11
ATOM  44031  CB  THR K  31     213.668 115.404 -68.939  1.00 22.44      KS11
ATOM  44032  OG1 THR K  31     214.011 114.215 -68.219  1.00 22.44      KS11
ATOM  44033  CG2 THR K  31     213.709 115.116 -70.418  1.00 22.44      KS11
ATOM  44034  C   THR K  31     214.631 117.557 -69.698  1.00 22.74      KS11
ATOM  44035  O   THR K  31     213.571 118.057 -70.043  1.00 22.74      KS11
ATOM  44036  N   ILE K  32     215.786 117.883 -70.269  1.00 56.20      KS11
ATOM  44037  CA  ILE K  32     215.808 118.858 -71.356  1.00 56.20      KS11
ATOM  44038  CB  ILE K  32     217.122 119.617 -71.408  1.00 33.56      KS11
ATOM  44039  CG2 ILE K  32     216.986 120.781 -72.385  1.00 33.56      KS11
ATOM  44040  CG1 ILE K  32     217.513 120.091 -70.008  1.00 33.56      KS11
ATOM  44041  CD1 ILE K  32     216.595 121.113 -69.442  1.00 33.56      KS11
ATOM  44042  C   ILE K  32     215.644 118.143 -72.694  1.00 56.20      KS11
ATOM  44043  O   ILE K  32     216.322 117.151 -72.953  1.00 56.20      KS11
ATOM  44044  N   THR K  33     214.766 118.650 -73.555  1.00 40.98      KS11
ATOM  44045  CA  THR K  33     214.543 118.002 -74.841  1.00 40.98      KS11
ATOM  44046  CB  THR K  33     213.339 117.088 -74.775  1.00 58.59      KS11
ATOM  44047  OG1 THR K  33     213.279 116.324 -75.974  1.00 58.59      KS11
ATOM  44048  CG2 THR K  33     212.062 117.900 -74.662  1.00 58.59      KS11
ATOM  44049  C   THR K  33     214.337 118.933 -76.036  1.00 40.98      KS11
ATOM  44050  O   THR K  33     214.087 120.122 -75.886  1.00 40.98      KS11
ATOM  44051  N   ASP K  34     214.432 118.360 -77.229  1.00 57.34      KS11
ATOM  44052  CA  ASP K  34     214.265 119.103 -78.472  1.00 57.34      KS11
ATOM  44053  CB  ASP K  34     214.751 118.253 -79.643  1.00 80.25      KS11
ATOM  44054  CG  ASP K  34     213.721 117.226 -80.082  1.00 80.25      KS11
ATOM  44055  OD1 ASP K  34     213.010 116.676 -79.213  1.00 80.25      KS11
ATOM  44056  OD2 ASP K  34     213.628 116.963 -81.299  1.00 80.25      KS11
ATOM  44057  C   ASP K  34     212.799 119.496 -78.709  1.00 57.34      KS11
ATOM  44058  O   ASP K  34     211.886 118.971 -78.061  1.00 57.34      KS11
ATOM  44059  N   PRO K  35     212.561 120.426 -79.652  1.00 56.55      KS11
ATOM  44060  CD  PRO K  35     213.604 121.206 -80.342  1.00 73.98      KS11
ATOM  44061  CA  PRO K  35     211.232 120.924 -80.015  1.00 56.55      KS11
ATOM  44062  CB  PRO K  35     211.543 121.949 -81.102  1.00 73.98      KS11
ATOM  44063  CG  PRO K  35     212.877 122.476 -80.690  1.00 73.98      KS11
ATOM  44064  C   PRO K  35     210.277 119.833 -80.500  1.00 56.55      KS11
ATOM  44065  O   PRO K  35     209.164 120.116 -80.961  1.00 56.55      KS11
ATOM  44066  N   ASP K  36     210.723 118.588 -80.413  1.00 67.89      KS11
ATOM  44067  CA  ASP K  36     209.901 117.466 -80.823  1.00 67.89      KS11
ATOM  44068  CB  ASP K  36     210.675 116.547 -81.772  1.00196.58      KS11
ATOM  44069  CG  ASP K  36     211.003 117.217 -83.092  1.00196.58      KS11
ATOM  44070  OD1 ASP K  36     211.661 116.577 -83.940  1.00196.58      KS11
ATOM  44071  OD2 ASP K  36     210.600 118.383 -83.282  1.00196.58      KS11
ATOM  44072  C   ASP K  36     209.525 116.717 -79.558  1.00 67.89      KS11
ATOM  44073  O   ASP K  36     208.582 115.925 -79.553  1.00 67.89      KS11
ATOM  44074  N   GLY K  37     210.267 116.983 -78.485  1.00 33.14      KS11
ATOM  44075  CA  GLY K  37     209.995 116.335 -77.216  1.00 33.14      KS11
ATOM  44076  C   GLY K  37     210.902 115.153 -76.921  1.00 33.14      KS11
ATOM  44077  O   GLY K  37     210.861 114.590 -75.820  1.00 33.14      KS11
ATOM  44078  N   ASN K  38     211.716 114.765 -77.902  1.00 55.26      KS11
ATOM  44079  CA  ASN K  38     212.644 113.649 -77.740  1.00 55.26      KS11
ATOM  44080  CB  ASN K  38     213.183 113.223 -79.099  1.00 69.04      KS11
ATOM  44081  CG  ASN K  38     212.086 112.801 -80.050  1.00 69.04      KS11
ATOM  44082  OD1 ASN K  38     212.272 112.818 -81.263  1.00 69.04      KS11
ATOM  44083  ND2 ASN K  38     210.938 112.410 -79.507  1.00 69.04      KS11
ATOM  44084  C   ASN K  38     213.783 114.116 -76.844  1.00 55.26      KS11
ATOM  44085  O   ASN K  38     214.677 114.848 -77.267  1.00 55.26      KS11
ATOM  44086  N   PRO K  39     213.761 113.695 -75.582  1.00 44.89      KS11
ATOM  44087  CD  PRO K  39     212.985 112.533 -75.120  1.00 48.21      KS11
ATOM  44088  CA  PRO K  39     214.780 114.070 -74.596  1.00 44.89      KS11
ATOM  44089  CB  PRO K  39     214.604 113.020 -73.501  1.00 48.21      KS11
ATOM  44090  CG  PRO K  39     213.966 111.856 -74.219  1.00 48.21      KS11
ATOM  44091  C   PRO K  39     216.216 114.154 -75.093  1.00 44.89      KS11
ATOM  44092  O   PRO K  39     216.706 113.249 -75.756  1.00 44.89      KS11
ATOM  44093  N   ILE K  40     216.878 115.258 -74.769  1.00 65.81      KS11
ATOM  44094  CA  ILE K  40     218.272 115.467 -75.144  1.00 65.81      KS11
ATOM  44095  CB  ILE K  40     218.561 116.928 -75.458  1.00 52.24      KS11
ATOM  44096  CG2 ILE K  40     219.941 117.315 -74.955  1.00 52.24      KS11
ATOM  44097  CG1 ILE K  40     218.472 117.149 -76.959  1.00 52.24      KS11
ATOM  44098  CD1 ILE K  40     218.819 118.560 -77.371  1.00 52.24      KS11
ATOM  44099  C   ILE K  40     219.173 115.066 -73.994  1.00 65.81      KS11
ATOM  44100  O   ILE K  40     220.140 114.328 -74.184  1.00 65.81      KS11
ATOM  44101  N   THR K  41     218.853 115.589 -72.811  1.00 57.72      KS11
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ATOM  44102  CA  THR K  41     219.591 115.316 -71.580  1.00 57.72      KS11
ATOM  44103  CB  THR K  41     220.647 116.372 -71.294  1.00 45.30      KS11
ATOM  44104  OG1 THR K  41     220.062 117.665 -71.453  1.00 45.30      KS11
ATOM  44105  CG2 THR K  41     221.826 116.223 -72.220  1.00 45.30      KS11
ATOM  44106  C   THR K  41     218.644 115.356 -70.406  1.00 57.72      KS11
ATOM  44107  O   THR K  41     217.582 115.979 -70.477  1.00 57.72      KS11
ATOM  44108  N   TRP K  42     219.044 114.708 -69.316  1.00 49.61      KS11
ATOM  44109  CA  TRP K  42     218.236 114.688 -68.108  1.00 49.61      KS11
ATOM  44110  CB  TRP K  42     217.287 113.503 -68.109  1.00 30.80      KS11
ATOM  44111  CG  TRP K  42     217.986 112.204 -67.914  1.00 30.80      KS11
ATOM  44112  CD2 TRP K  42     218.176 111.506 -66.679  1.00 30.80      KS11
ATOM  44113  CE2 TRP K  42     218.879 110.322 -66.974  1.00 30.80      KS11
ATOM  44114  CE3 TRP K  42     217.818 111.765 -65.354  1.00 30.80      KS11
ATOM  44115  CD1 TRP K  42     218.569 111.445 -68.874  1.00 30.80      KS11
ATOM  44116  NE1 TRP K  42     219.108 110.309 -68.323  1.00 30.80      KS11
ATOM  44117  CZ2 TRP K  42     219.236 109.396 -65.991  1.00 30.80      KS11
ATOM  44118  CZ3 TRP K  42     218.171 110.846 -64.375  1.00 30.80      KS11
ATOM  44119  CH2 TRP K  42     218.872 109.675 -64.700  1.00 30.80      KS11
ATOM  44120  C   TRP K  42     219.131 114.563 -66.900  1.00 49.61      KS11
ATOM  44121  O   TRP K  42     220.296 114.223 -67.020  1.00 49.61      KS11
ATOM  44122  N   SER K  43     218.569 114.829 -65.732  1.00 45.96      KS11
ATOM  44123  CA  SER K  43     219.303 114.709 -64.486  1.00 45.96      KS11
ATOM  44124  CB  SER K  43     220.244 115.883 -64.289  1.00 32.10      KS11
ATOM  44125  OG  SER K  43     219.562 116.932 -63.636  1.00 32.10      KS11
ATOM  44126  C   SER K  43     218.289 114.705 -63.361  1.00 45.96      KS11
ATOM  44127  O   SER K  43     217.256 115.370 -63.439  1.00 45.96      KS11
ATOM  44128  N   SER K  44     218.581 113.945 -62.319  1.00 13.09      KS11
ATOM  44129  CA  SER K  44     217.694 113.870 -61.178  1.00 13.09      KS11
ATOM  44130  CB  SER K  44     217.483 112.424 -60.764  1.00 29.34      KS11
ATOM  44131  OG  SER K  44     218.607 111.968 -60.041  1.00 29.34      KS11
ATOM  44132  C   SER K  44     218.438 114.582 -60.084  1.00 13.09      KS11
ATOM  44133  O   SER K  44     219.290 115.398 -60.359  1.00 13.09      KS11
ATOM  44134  N   GLY K  45     218.113 114.270 -58.840  1.00 35.58      KS11
ATOM  44135  CA  GLY K  45     218.806 114.888 -57.731  1.00 35.58      KS11
ATOM  44136  C   GLY K  45     219.816 113.854 -57.325  1.00 35.58      KS11
ATOM  44137  O   GLY K  45     220.942 114.164 -56.978  1.00 35.58      KS11
ATOM  44138  N   GLY K  46     219.389 112.603 -57.375  1.00 45.87      KS11
ATOM  44139  CA  GLY K  46     220.288 111.528 -57.040  1.00 45.87      KS11
ATOM  44140  C   GLY K  46     221.312 111.449 -58.156  1.00 45.87      KS11
ATOM  44141  O   GLY K  46     222.369 110.830 -58.013  1.00 45.87      KS11
ATOM  44142  N   VAL K  47     220.999 112.089 -59.279  1.00 64.30      KS11
ATOM  44143  CA  VAL K  47     221.900 112.088 -60.420  1.00 64.30      KS11
ATOM  44144  CB  VAL K  47     221.285 112.839 -61.617  1.00 53.74      KS11
ATOM  44145  CG1 VAL K  47     221.906 114.217 -61.767  1.00 53.74      KS11
ATOM  44146  CG2 VAL K  47     221.466 112.025 -62.870  1.00 53.74      KS11
ATOM  44147  C   VAL K  47     223.174 112.776 -59.978  1.00 64.30      KS11
ATOM  44148  O   VAL K  47     224.174 112.780 -60.686  1.00 64.30      KS11
ATOM  44149  N   ILE K  48     223.116 113.364 -58.791  1.00 48.86      KS11
ATOM  44150  CA  ILE K  48     224.250 114.049 -58.199  1.00 48.86      KS11
ATOM  44151  CB  ILE K  48     223.994 115.538 -58.038  1.00 27.27      KS11
ATOM  44152  CG2 ILE K  48     225.312 116.273 -58.032  1.00 27.27      KS11
ATOM  44153  CG1 ILE K  48     223.085 116.043 -59.144  1.00 27.27      KS11
ATOM  44154  CD1 ILE K  48     222.488 117.392 -58.832  1.00 27.27      KS11
ATOM  44155  C   ILE K  48     224.414 113.511 -56.785  1.00 48.86      KS11
ATOM  44156  O   ILE K  48     224.104 114.216 -55.830  1.00 48.86      KS11
ATOM  44157  N   GLY K  49     224.897 112.284 -56.631  1.00 85.51      KS11
ATOM  44158  CA  GLY K  49     225.042 111.746 -55.288  1.00 85.51      KS11
ATOM  44159  C   GLY K  49     223.681 111.822 -54.633  1.00 85.51      KS11
ATOM  44160  O   GLY K  49     222.729 111.245 -55.153  1.00 85.51      KS11
ATOM  44161  N   TYR K  50     223.577 112.547 -53.520  1.00 58.81      KS11
ATOM  44162  CA  TYR K  50     222.302 112.696 -52.808  1.00 58.81      KS11
ATOM  44163  CB  TYR K  50     221.550 113.926 -53.318  1.00 37.89      KS11
ATOM  44164  CG  TYR K  50     222.039 115.243 -52.755  1.00 37.89      KS11
ATOM  44165  CD1 TYR K  50     221.504 116.447 -53.196  1.00 37.89      KS11
ATOM  44166  CE1 TYR K  50     221.977 117.660 -52.730  1.00 37.89      KS11
ATOM  44167  CD2 TYR K  50     223.063 115.286 -51.818  1.00 37.89      KS11
ATOM  44168  CE2 TYR K  50     223.550 116.491 -51.344  1.00 37.89      KS11
ATOM  44169  CZ  TYR K  50     223.007 117.681 -51.807  1.00 37.89      KS11
ATOM  44170  OH  TYR K  50     223.536 118.889 -51.383  1.00 37.89      KS11
ATOM  44171  C   TYR K  50     221.445 111.468 -53.025  1.00 58.81      KS11
ATOM  44172  O   TYR K  50     220.670 111.418 -53.977  1.00 58.81      KS11
ATOM  44173  N   LYS K  51     221.570 110.489 -52.136  1.00 68.36      KS11
ATOM  44174  CA  LYS K  51     220.834 109.245 -52.296  1.00 68.36      KS11
ATOM  44175  CB  LYS K  51     221.659 108.076 -51.750  1.00113.97      KS11
ATOM  44176  CG  LYS K  51     222.684 107.510 -52.725  1.00113.97      KS11
ATOM  44177  CD  LYS K  51     223.154 106.115 -52.293  1.00113.97      KS11
ATOM  44178  CE  LYS K  51     222.007 105.091 -52.314  1.00113.97      KS11
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ATOM  44179  NZ  LYS K  51     222.430 103.716 -51.899  1.00113.97      KS11
ATOM  44180  C   LYS K  51     219.414 109.117 -51.754  1.00 68.36      KS11
ATOM  44181  O   LYS K  51     218.505 108.714 -52.488  1.00 68.36      KS11
ATOM  44182  N   GLY K  52     219.205 109.443 -50.484  1.00 52.39      KS11
ATOM  44183  CA  GLY K  52     217.875 109.262 -49.932  1.00 52.39      KS11
ATOM  44184  C   GLY K  52     216.940 110.437 -49.833  1.00 52.39      KS11
ATOM  44185  O   GLY K  52     216.131 110.715 -50.730  1.00 52.39      KS11
ATOM  44186  N   SER K  53     217.038 111.114 -48.703  1.00 49.13      KS11
ATOM  44187  CA  SER K  53     216.188 112.245 -48.452  1.00 49.13      KS11
ATOM  44188  CB  SER K  53     216.109 112.500 -46.951  1.00 84.85      KS11
ATOM  44189  OG  SER K  53     215.126 113.474 -46.662  1.00 84.85      KS11
ATOM  44190  C   SER K  53     216.673 113.491 -49.182  1.00 49.13      KS11
ATOM  44191  O   SER K  53     215.913 114.106 -49.929  1.00 49.13      KS11
ATOM  44192  N   ARG K  54     217.935 113.860 -48.980  1.00 38.18      KS11
ATOM  44193  CA  ARG K  54     218.479 115.055 -49.617  1.00 38.18      KS11
ATOM  44194  CB  ARG K  54     220.011 115.077 -49.505  1.00146.45      KS11
ATOM  44195  CG  ARG K  54     220.672 113.708 -49.401  1.00146.45      KS11
ATOM  44196  CD  ARG K  54     220.766 113.215 -47.958  1.00146.45      KS11
ATOM  44197  NE  ARG K  54     221.964 113.704 -47.276  1.00146.45      KS11
ATOM  44198  CZ  ARG K  54     222.184 114.972 -46.939  1.00146.45      KS11
ATOM  44199  NH1 ARG K  54     221.287 115.906 -47.215  1.00146.45      KS11
ATOM  44200  NH2 ARG K  54     223.311 115.309 -46.325  1.00146.45      KS11
ATOM  44201  C   ARG K  54     218.062 115.219 -51.083  1.00 38.18      KS11
ATOM  44202  O   ARG K  54     218.032 116.328 -51.611  1.00 38.18      KS11
ATOM  44203  N   LYS K  55     217.728 114.117 -51.738  1.00 31.13      KS11
ATOM  44204  CA  LYS K  55     217.337 114.172 -53.135  1.00 31.13      KS11
ATOM  44205  CB  LYS K  55     217.020 112.761 -53.612  1.00 26.05      KS11
ATOM  44206  CG  LYS K  55     217.053 112.537 -55.126  1.00 26.05      KS11
ATOM  44207  CD  LYS K  55     216.582 111.109 -55.456  1.00 26.05      KS11
ATOM  44208  CE  LYS K  55     217.377 110.056 -54.661  1.00 26.05      KS11
ATOM  44209  NZ  LYS K  55     216.807 108.672 -54.701  1.00 26.05      KS11
ATOM  44210  C   LYS K  55     216.121 115.080 -53.309  1.00 31.13      KS11
ATOM  44211  O   LYS K  55     215.807 115.521 -54.418  1.00 31.13      KS11
ATOM  44212  N   GLY K  56     215.441 115.369 -52.204  1.00 51.83      KS11
ATOM  44213  CA  GLY K  56     214.262 116.221 -52.260  1.00 51.83      KS11
ATOM  44214  C   GLY K  56     214.512 117.688 -51.965  1.00 51.83      KS11
ATOM  44215  O   GLY K  56     213.809 118.555 -52.481  1.00 51.83      KS11
ATOM  44216  N   THR K  57     215.511 117.965 -51.133  1.00 26.84      KS11
ATOM  44217  CA  THR K  57     215.843 119.335 -50.778  1.00 26.84      KS11
ATOM  44218  CB  THR K  57     217.251 119.442 -50.168  1.00 98.46      KS11
ATOM  44219  OG1 THR K  57     217.467 120.781 -49.705  1.00 98.46      KS11
ATOM  44220  CG2 THR K  57     218.312 119.114 -51.207  1.00 98.46      KS11
ATOM  44221  C   THR K  57     215.795 120.259 -51.986  1.00 26.84      KS11
ATOM  44222  O   THR K  57     216.208 119.891 -53.082  1.00 26.84      KS11
ATOM  44223  N   PRO K  58     215.284 121.480 -51.800  1.00 41.27      KS11
ATOM  44224  CD  PRO K  58     214.964 122.167 -50.538  1.00 95.51      KS11
ATOM  44225  CA  PRO K  58     215.220 122.408 -52.927  1.00 41.27      KS11
ATOM  44226  CB  PRO K  58     214.737 123.702 -52.273  1.00 95.51      KS11
ATOM  44227  CG  PRO K  58     215.284 123.599 -50.878  1.00 95.51      KS11
ATOM  44228  C   PRO K  58     216.591 122.558 -53.586  1.00 41.27      KS11
ATOM  44229  O   PRO K  58     216.700 122.617 -54.810  1.00 41.27      KS11
ATOM  44230  N   TYR K  59     217.629 122.611 -52.757  1.00 44.34      KS11
ATOM  44231  CA  TYR K  59     219.001 122.757 -53.229  1.00 44.34      KS11
ATOM  44232  CB  TYR K  59     219.973 122.649 -52.060  1.00 61.26      KS11
ATOM  44233  CG  TYR K  59     221.412 122.694 -52.477  1.00 61.26      KS11
ATOM  44234  CD1 TYR K  59     221.950 123.838 -53.044  1.00 61.26      KS11
ATOM  44235  CE1 TYR K  59     223.285 123.887 -53.438  1.00 61.26      KS11
ATOM  44236  CD2 TYR K  59     222.237 121.587 -52.311  1.00 61.26      KS11
ATOM  44237  CE2 TYR K  59     223.571 121.619 -52.699  1.00 61.26      KS11
ATOM  44238  CZ  TYR K  59     224.090 122.774 -53.262  1.00 61.26      KS11
ATOM  44239  OH  TYR K  59     225.415 122.825 -53.643  1.00 61.26      KS11
ATOM  44240  C   TYR K  59     219.322 121.690 -54.253  1.00 44.34      KS11
ATOM  44241  O   TYR K  59     219.916 121.976 -55.286  1.00 44.34      KS11
ATOM  44242  N   ALA K  60     218.935 120.454 -53.959  1.00 20.12      KS11
ATOM  44243  CA  ALA K  60     219.175 119.359 -54.887  1.00 20.12      KS11
ATOM  44244  CB  ALA K  60     218.477 118.092 -54.409  1.00 30.14      KS11
ATOM  44245  C   ALA K  60     218.619 119.781 -56.238  1.00 20.12      KS11
ATOM  44246  O   ALA K  60     219.313 119.766 -57.245  1.00 20.12      KS11
ATOM  44247  N   ALA K  61     217.356 120.176 -56.251  1.00 28.07      KS11
ATOM  44248  CA  ALA K  61     216.730 120.607 -57.487  1.00 28.07      KS11
ATOM  44249  CB  ALA K  61     215.378 121.240 -57.198  1.00108.08      KS11
ATOM  44250  C   ALA K  61     217.630 121.596 -58.207  1.00 28.07      KS11
ATOM  44251  O   ALA K  61     217.804 121.515 -59.413  1.00 28.07      KS11
ATOM  44252  N   GLN K  62     218.215 122.524 -57.462  1.00 48.61      KS11
ATOM  44253  CA  GLN K  62     219.084 123.520 -58.066  1.00 48.61      KS11
ATOM  44254  CB  GLN K  62     219.677 124.417 -56.986  1.00 95.33      KS11
ATOM  44255  CG  GLN K  62     220.322 125.666 -57.526  1.00 95.33      KS11
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ATOM  44256  CD  GLN K  62     220.771 126.600 -56.423  1.00 95.33      KS11
ATOM  44257  OE1 GLN K  62     221.622 126.244 -55.608  1.00 95.33      KS11
ATOM  44258  NE2 GLN K  62     220.200 127.803 -56.389  1.00 95.33      KS11
ATOM  44259  C   GLN K  62     220.201 122.850 -58.860  1.00 48.61      KS11
ATOM  44260  O   GLN K  62     220.333 123.052 -60.070  1.00 48.61      KS11
ATOM  44261  N   LEU K  63     220.997 122.036 -58.180  1.00 42.74      KS11
ATOM  44262  CA  LEU K  63     222.101 121.350 -58.830  1.00 42.74      KS11
ATOM  44263  CB  LEU K  63     222.823 120.457 -57.827  1.00 32.98      KS11
ATOM  44264  CG  LEU K  63     223.334 121.182 -56.584  1.00 32.98      KS11
ATOM  44265  CD1 LEU K  63     224.138 120.230 -55.742  1.00 32.98      KS11
ATOM  44266  CD2 LEU K  63     224.191 122.374 -56.987  1.00 32.98      KS11
ATOM  44267  C   LEU K  63     221.623 120.528 -60.013  1.00 42.74      KS11
ATOM  44268  O   LEU K  63     222.317 120.398 -61.012  1.00 42.74      KS11
ATOM  44269  N   ALA K  64     220.433 119.964 -59.900  1.00 29.61      KS11
ATOM  44270  CA  ALA K  64     219.896 119.181 -60.991  1.00 29.61      KS11
ATOM  44271  CB  ALA K  64     218.578 118.552 -60.591  1.00 32.47      KS11
ATOM  44272  C   ALA K  64     219.687 120.140 -62.144  1.00 29.61      KS11
ATOM  44273  O   ALA K  64     220.404 120.098 -63.138  1.00 29.61      KS11
ATOM  44274  N   ALA K  65     218.704 121.015 -62.001  1.00 50.51      KS11
ATOM  44275  CA  ALA K  65     218.405 121.988 -63.035  1.00 50.51      KS11
ATOM  44276  CB  ALA K  65     217.701 123.190 -62.431  1.00 55.00      KS11
ATOM  44277  C   ALA K  65     219.681 122.432 -63.731  1.00 50.51      KS11
ATOM  44278  O   ALA K  65     219.834 122.242 -64.936  1.00 50.51      KS11
ATOM  44279  N   LEU K  66     220.602 123.007 -62.962  1.00 43.38      KS11
ATOM  44280  CA  LEU K  66     221.857 123.493 -63.513  1.00 43.38      KS11
ATOM  44281  CB  LEU K  66     222.770 123.969 -62.392  1.00 50.44      KS11
ATOM  44282  CG  LEU K  66     222.178 125.152 -61.626  1.00 50.44      KS11
ATOM  44283  CD1 LEU K  66     223.207 125.697 -60.661  1.00 50.44      KS11
ATOM  44284  CD2 LEU K  66     221.748 126.245 -62.594  1.00 50.44      KS11
ATOM  44285  C   LEU K  66     222.556 122.436 -64.342  1.00 43.38      KS11
ATOM  44286  O   LEU K  66     222.896 122.684 -65.500  1.00 43.38      KS11
ATOM  44287  N   ASP K  67     222.768 121.261 -63.750  1.00 38.60      KS11
ATOM  44288  CA  ASP K  67     223.415 120.145 -64.439  1.00 38.60      KS11
ATOM  44289  CB  ASP K  67     223.269 118.865 -63.625  1.00 78.81      KS11
ATOM  44290  CG  ASP K  67     223.862 117.667 -64.328  1.00 78.81      KS11
ATOM  44291  OD1 ASP K  67     225.102 117.546 -64.353  1.00 78.81      KS11
ATOM  44292  OD2 ASP K  67     223.089 116.851 -64.868  1.00 78.81      KS11
ATOM  44293  C   ASP K  67     222.771 119.934 -65.803  1.00 38.60      KS11
ATOM  44294  O   ASP K  67     223.387 120.173 -66.840  1.00 38.60      KS11
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ATOM  44296  CA  ALA K  68     220.790 119.253 -67.032  1.00 35.99      KS11
ATOM  44297  CB  ALA K  68     219.319 118.997 -66.734  1.00113.31     KS11
ATOM  44298  C   ALA K  68     220.936 120.449 -67.963  1.00 35.99      KS11
ATOM  44299  O   ALA K  68     220.999 120.287 -69.171  1.00 35.99      KS11
ATOM  44300  N   ALA K  69     220.989 121.649 -67.397  1.00 37.67      KS11
ATOM  44301  CA  ALA K  69     221.138 122.858 -68.196  1.00 37.67      KS11
ATOM  44302  CB  ALA K  69     220.971 124.090 -67.326  1.00 43.70      KS11
ATOM  44303  C   ALA K  69     222.504 122.874 -68.867  1.00 37.67      KS11
ATOM  44304  O   ALA K  69     222.616 123.252 -70.040  1.00 37.67      KS11
ATOM  44305  N   LYS K  70     223.542 122.473 -68.126  1.00 38.33      KS11
ATOM  44306  CA  LYS K  70     224.898 122.429 -68.679  1.00 38.33      KS11
ATOM  44307  CB  LYS K  70     225.925 122.052 -67.608  1.00173.17     KS11
ATOM  44308  CG  LYS K  70     226.281 123.185 -66.662  1.00173.17     KS11
ATOM  44309  CD  LYS K  70     227.416 122.791 -65.727  1.00173.17     KS11
ATOM  44310  CE  LYS K  70     227.773 123.924 -64.768  1.00173.17     KS11
ATOM  44311  NZ  LYS K  70     226.637 124.307 -63.875  1.00173.17     KS11
ATOM  44312  C   LYS K  70     224.938 121.405 -69.805  1.00 38.33      KS11
ATOM  44313  O   LYS K  70     225.155 121.748 -70.970  1.00 38.33      KS11
ATOM  44314  N   LYS K  71     224.705 120.148 -69.452  1.00 52.35      KS11
ATOM  44315  CA  LYS K  71     224.712 119.074 -70.429  1.00 52.35      KS11
ATOM  44316  CB  LYS K  71     224.165 117.793 -69.799  1.00 51.48      KS11
ATOM  44317  CG  LYS K  71     224.679 117.548 -68.392  1.00 51.48      KS11
ATOM  44318  CD  LYS K  71     224.707 116.068 -68.019  1.00 51.48      KS11
ATOM  44319  CE  LYS K  71     223.325 115.429 -67.980  1.00 51.48      KS11
ATOM  44320  NZ  LYS K  71     223.415 113.992 -67.559  1.00 51.48      KS11
ATOM  44321  C   LYS K  71     223.862 119.468 -71.629  1.00 52.35      KS11
ATOM  44322  O   LYS K  71     224.104 119.021 -72.746  1.00 52.35      KS11
ATOM  44323  N   ALA K  72     222.870 120.317 -71.395  1.00 39.17      KS11
ATOM  44324  CA  ALA K  72     221.988 120.759 -72.458  1.00 39.17      KS11
ATOM  44325  CB  ALA K  72     220.785 121.459 -71.870  1.00 67.66      KS11
ATOM  44326  C   ALA K  72     222.720 121.693 -73.405  1.00 39.17      KS11
ATOM  44327  O   ALA K  72     222.673 121.519 -74.626  1.00 39.17      KS11
ATOM  44328  N   MET K  73     223.389 122.692 -72.842  1.00 59.52      KS11
ATOM  44329  CA  MET K  73     224.132 123.643 -73.652  1.00 59.52      KS11
ATOM  44330  CB  MET K  73     224.661 124.769 -72.765  1.00125.99     KS11
ATOM  44331  CG  MET K  73     223.548 125.519 -72.051  1.00125.99     KS11
ATOM  44332  SD  MET K  73     224.102 126.914 -71.054  1.00125.99     KS11
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ATOM  44333  CE  MET K  73     224.230 126.150 -69.432  1.00125.99      KS11
ATOM  44334  C   MET K  73     225.276 122.931 -74.381  1.00 59.52      KS11
ATOM  44335  O   MET K  73     225.831 123.449 -75.346  1.00 59.52      KS11
ATOM  44336  N   ALA K  74     225.624 121.737 -73.913  1.00 46.76      KS11
ATOM  44337  CA  ALA K  74     226.670 120.948 -74.550  1.00 46.76      KS11
ATOM  44338  CB  ALA K  74     226.994 119.730 -73.701  1.00164.88      KS11
ATOM  44339  C   ALA K  74     226.151 120.516 -75.927  1.00 46.76      KS11
ATOM  44340  O   ALA K  74     226.914 120.402 -76.888  1.00 46.76      KS11
ATOM  44341  N   TYR K  75     224.847 120.262 -76.011  1.00 76.27      KS11
ATOM  44342  CA  TYR K  75     224.229 119.897 -77.279  1.00 76.27      KS11
ATOM  44343  CB  TYR K  75     222.888 119.195 -77.079  1.00 82.94      KS11
ATOM  44344  CG  TYR K  75     222.969 117.695 -76.942  1.00 82.94      KS11
ATOM  44345  CD1 TYR K  75     223.512 117.108 -75.802  1.00 82.94      KS11
ATOM  44346  CE1 TYR K  75     223.569 115.721 -75.660  1.00 82.94      KS11
ATOM  44347  CD2 TYR K  75     222.483 116.860 -77.945  1.00 82.94      KS11
ATOM  44348  CE2 TYR K  75     222.535 115.473 -77.815  1.00 82.94      KS11
ATOM  44349  CZ  TYR K  75     223.081 114.907 -76.667  1.00 82.94      KS11
ATOM  44350  OH  TYR K  75     223.150 113.532 -76.528  1.00 82.94      KS11
ATOM  44351  C   TYR K  75     223.980 121.204 -78.000  1.00 76.27      KS11
ATOM  44352  O   TYR K  75     223.194 121.260 -78.937  1.00 76.27      KS11
ATOM  44353  N   GLY K  76     224.636 122.260 -77.527  1.00 70.17      KS11
ATOM  44354  CA  GLY K  76     224.495 123.569 -78.135  1.00 70.17      KS11
ATOM  44355  C   GLY K  76     223.216 124.328 -77.823  1.00 70.17      KS11
ATOM  44356  O   GLY K  76     222.868 125.253 -78.557  1.00 70.17      KS11
ATOM  44357  N   MET K  77     222.521 123.960 -76.746  1.00 86.32      KS11
ATOM  44358  CA  MET K  77     221.271 124.630 -76.361  1.00 86.32      KS11
ATOM  44359  CB  MET K  77     220.639 123.923 -75.157  1.00 85.50      KS11
ATOM  44360  CG  MET K  77     219.850 122.652 -75.481  1.00 85.50      KS11
ATOM  44361  SD  MET K  77     218.160 122.952 -76.064  1.00 85.50      KS11
ATOM  44362  CE  MET K  77     217.385 123.368 -74.547  1.00 85.50      KS11
ATOM  44363  C   MET K  77     221.463 126.104 -76.017  1.00 86.32      KS11
ATOM  44364  O   MET K  77     222.580 126.550 -75.765  1.00 86.32      KS11
ATOM  44365  N   GLN K  78     220.365 126.854 -76.007  1.00 75.30      KS11
ATOM  44366  CA  GLN K  78     220.405 128.275 -75.673  1.00 75.30      KS11
ATOM  44367  CB  GLN K  78     220.763 129.100 -76.912  1.00145.83      KS11
ATOM  44368  CG  GLN K  78     222.150 128.793 -77.454  1.00145.83      KS11
ATOM  44369  CD  GLN K  78     222.661 129.850 -78.406  1.00145.83      KS11
ATOM  44370  OE1 GLN K  78     222.837 131.009 -78.028  1.00145.83      KS11
ATOM  44371  NE2 GLN K  78     222.909 129.456 -79.648  1.00145.83      KS11
ATOM  44372  C   GLN K  78     219.096 128.786 -75.053  1.00 75.30      KS11
ATOM  44373  O   GLN K  78     219.113 129.393 -73.981  1.00 75.30      KS11
ATOM  44374  N   SER K  79     217.971 128.530 -75.721  1.00 63.62      KS11
ATOM  44375  CA  SER K  79     216.651 128.958 -75.238  1.00 63.62      KS11
ATOM  44376  CB  SER K  79     216.008 129.930 -76.232  1.00 96.05      KS11
ATOM  44377  OG  SER K  79     215.551 129.249 -77.389  1.00 96.05      KS11
ATOM  44378  C   SER K  79     215.703 127.774 -75.029  1.00 63.62      KS11
ATOM  44379  O   SER K  79     215.649 126.850 -75.844  1.00 63.62      KS11
ATOM  44380  N   VAL K  80     214.932 127.825 -73.947  1.00 59.06      KS11
ATOM  44381  CA  VAL K  80     214.003 126.749 -73.633  1.00 59.06      KS11
ATOM  44382  CB  VAL K  80     214.540 125.880 -72.491  1.00 61.57      KS11
ATOM  44383  CG1 VAL K  80     213.793 124.569 -72.447  1.00 61.57      KS11
ATOM  44384  CG2 VAL K  80     216.028 125.658 -72.664  1.00 61.57      KS11
ATOM  44385  C   VAL K  80     212.612 127.212 -73.211  1.00 59.06      KS11
ATOM  44386  O   VAL K  80     212.406 128.365 -72.831  1.00 59.06      KS11
ATOM  44387  N   ASP K  81     211.668 126.275 -73.282  1.00 76.90      KS11
ATOM  44388  CA  ASP K  81     210.278 126.481 -72.884  1.00 76.90      KS11
ATOM  44389  CB  ASP K  81     209.341 126.098 -74.027  1.00101.33      KS11
ATOM  44390  CG  ASP K  81     209.608 126.897 -75.287  1.00101.33      KS11
ATOM  44391  OD1 ASP K  81     210.768 126.920 -75.750  1.00101.33      KS11
ATOM  44392  OD2 ASP K  81     208.656 127.500 -75.820  1.00101.33      KS11
ATOM  44393  C   ASP K  81     210.083 125.541 -71.691  1.00 76.90      KS11
ATOM  44394  O   ASP K  81     210.004 124.319 -71.842  1.00 76.90      KS11
ATOM  44395  N   VAL K  82     210.026 126.122 -70.501  1.00 61.91      KS11
ATOM  44396  CA  VAL K  82     209.893 125.343 -69.287  1.00 61.91      KS11
ATOM  44397  CB  VAL K  82     210.376 126.119 -68.074  1.00 26.07      KS11
ATOM  44398  CG1 VAL K  82     210.295 125.226 -66.837  1.00 26.07      KS11
ATOM  44399  CG2 VAL K  82     211.786 126.601 -68.305  1.00 26.07      KS11
ATOM  44400  C   VAL K  82     208.507 124.860 -68.957  1.00 61.91      KS11
ATOM  44401  O   VAL K  82     207.544 125.628 -68.960  1.00 61.91      KS11
ATOM  44402  N   ILE K  83     208.433 123.572 -68.647  1.00 67.52      KS11
ATOM  44403  CA  ILE K  83     207.190 122.934 -68.264  1.00 67.52      KS11
ATOM  44404  CB  ILE K  83     206.849 121.774 -69.160  1.00 37.93      KS11
ATOM  44405  CG2 ILE K  83     205.520 121.183 -68.731  1.00 37.93      KS11
ATOM  44406  CG1 ILE K  83     206.819 122.238 -70.609  1.00 37.93      KS11
ATOM  44407  CD1 ILE K  83     206.719 121.093 -71.580  1.00 37.93      KS11
ATOM  44408  C   ILE K  83     207.411 122.379 -66.880  1.00 67.52      KS11
ATOM  44409  O   ILE K  83     208.511 121.928 -66.552  1.00 67.52      KS11
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ATOM  44410  N   VAL K  84     206.363 122.400 -66.072  1.00 35.45      KS11
ATOM  44411  CA  VAL K  84     206.477 121.913 -64.717  1.00 35.45      KS11
ATOM  44412  CB  VAL K  84     206.367 123.048 -63.700  1.00 38.28      KS11
ATOM  44413  CG1 VAL K  84     207.404 122.851 -62.610  1.00 38.28      KS11
ATOM  44414  CG2 VAL K  84     206.530 124.390 -64.388  1.00 38.28      KS11
ATOM  44415  C   VAL K  84     205.363 120.955 -64.439  1.00 35.45      KS11
ATOM  44416  O   VAL K  84     204.267 121.114 -64.956  1.00 35.45      KS11
ATOM  44417  N   ARG K  85     205.641 119.959 -63.617  1.00 62.00      KS11
ATOM  44418  CA  ARG K  85     204.630 118.987 -63.268  1.00 62.00      KS11
ATOM  44419  CB  ARG K  85     204.598 117.850 -64.273  1.00 45.01      KS11
ATOM  44420  CG  ARG K  85     204.168 118.275 -65.634  1.00 45.01      KS11
ATOM  44421  CD  ARG K  85     204.238 117.116 -66.564  1.00 45.01      KS11
ATOM  44422  NE  ARG K  85     204.105 117.528 -67.948  1.00 45.01      KS11
ATOM  44423  CZ  ARG K  85     204.569 116.817 -68.969  1.00 45.01      KS11
ATOM  44424  NH1 ARG K  85     205.192 115.665 -68.749  1.00 45.01      KS11
ATOM  44425  NH2 ARG K  85     204.424 117.257 -70.212  1.00 45.01      KS11
ATOM  44426  C   ARG K  85     204.953 118.428 -61.918  1.00 62.00      KS11
ATOM  44427  O   ARG K  85     205.909 117.671 -61.774  1.00 62.00      KS11
ATOM  44428  N   GLY K  86     204.166 118.809 -60.923  1.00 45.22      KS11
ATOM  44429  CA  GLY K  86     204.398 118.293 -59.593  1.00 45.22      KS11
ATOM  44430  C   GLY K  86     204.380 119.365 -58.545  1.00 45.22      KS11
ATOM  44431  O   GLY K  86     204.221 120.540 -58.847  1.00 45.22      KS11
ATOM  44432  N   THR K  87     204.534 118.938 -57.305  1.00 72.20      KS11
ATOM  44433  CA  THR K  87     204.546 119.835 -56.173  1.00 72.20      KS11
ATOM  44434  CB  THR K  87     203.231 119.756 -55.396  1.00 54.17      KS11
ATOM  44435  OG1 THR K  87     202.131 119.737 -56.312  1.00 54.17      KS11
ATOM  44436  CG2 THR K  87     203.097 120.947 -54.470  1.00 54.17      KS11
ATOM  44437  C   THR K  87     205.653 119.291 -55.296  1.00 72.20      KS11
ATOM  44438  O   THR K  87     205.516 118.211 -54.731  1.00 72.20      KS11
ATOM  44439  N   GLY K  88     206.755 120.016 -55.189  1.00 35.60      KS11
ATOM  44440  CA  GLY K  88     207.845 119.524 -54.375  1.00 35.60      KS11
ATOM  44441  C   GLY K  88     208.696 120.639 -53.828  1.00 35.60      KS11
ATOM  44442  O   GLY K  88     208.692 121.751 -54.357  1.00 35.60      KS11
ATOM  44443  N   ALA K  89     209.422 120.351 -52.756  1.00 97.15      KS11
ATOM  44444  CA  ALA K  89     210.279 121.352 -52.145  1.00 97.15      KS11
ATOM  44445  CB  ALA K  89     210.816 120.840 -50.813  1.00178.66      KS11
ATOM  44446  C   ALA K  89     211.424 121.640 -53.097  1.00 97.15      KS11
ATOM  44447  O   ALA K  89     212.586 121.660 -52.695  1.00 97.15      KS11
ATOM  44448  N   GLY K  90     211.089 121.854 -54.364  1.00 65.90      KS11
ATOM  44449  CA  GLY K  90     212.111 122.129 -55.352  1.00 65.90      KS11
ATOM  44450  C   GLY K  90     211.552 122.514 -56.701  1.00 65.90      KS11
ATOM  44451  O   GLY K  90     212.299 122.811 -57.627  1.00 65.90      KS11
ATOM  44452  N   ARG K  91     210.234 122.508 -56.817  1.00 32.11      KS11
ATOM  44453  CA  ARG K  91     209.605 122.864 -58.075  1.00 32.11      KS11
ATOM  44454  CB  ARG K  91     208.082 122.741 -57.960  1.00 84.42      KS11
ATOM  44455  CG  ARG K  91     207.336 122.952 -59.269  1.00 84.42      KS11
ATOM  44456  CD  ARG K  91     206.782 124.366 -59.383  1.00 84.42      KS11
ATOM  44457  NE  ARG K  91     205.635 124.574 -58.501  1.00 84.42      KS11
ATOM  44458  CZ  ARG K  91     204.425 124.056 -58.702  1.00 84.42      KS11
ATOM  44459  NH1 ARG K  91     204.183 123.295 -59.766  1.00 84.42      KS11
ATOM  44460  NH2 ARG K  91     203.455 124.288 -57.826  1.00 84.42      KS11
ATOM  44461  C   ARG K  91     210.002 124.286 -58.452  1.00 32.11      KS11
ATOM  44462  O   ARG K  91     210.944 124.500 -59.213  1.00 32.11      KS11
ATOM  44463  N   GLU K  92     209.300 125.263 -57.899  1.00 67.72      KS11
ATOM  44464  CA  GLU K  92     209.593 126.647 -58.217  1.00 67.72      KS11
ATOM  44465  CB  GLU K  92     208.790 127.570 -57.297  1.00 92.80      KS11
ATOM  44466  CG  GLU K  92     208.038 128.678 -58.043  1.00 92.80      KS11
ATOM  44467  CD  GLU K  92     207.181 128.158 -59.197  1.00 92.80      KS11
ATOM  44468  OE1 GLU K  92     206.318 127.285 -58.965  1.00 92.80      KS11
ATOM  44469  OE2 GLU K  92     207.369 128.631 -60.340  1.00 92.80      KS11
ATOM  44470  C   GLU K  92     211.088 126.954 -58.128  1.00 67.72      KS11
ATOM  44471  O   GLU K  92     211.565 127.908 -58.723  1.00 67.72      KS11
ATOM  44472  N   GLN K  93     211.833 126.133 -57.404  1.00 34.04      KS11
ATOM  44473  CA  GLN K  93     213.269 126.353 -57.269  1.00 34.04      KS11
ATOM  44474  CB  GLN K  93     213.819 125.566 -56.079  1.00 91.69      KS11
ATOM  44475  CG  GLN K  93     214.417 126.436 -54.989  1.00 91.69      KS11
ATOM  44476  CD  GLN K  93     215.629 127.207 -55.463  1.00 91.69      KS11
ATOM  44477  OE1 GLN K  93     216.656 126.621 -55.796  1.00 91.69      KS11
ATOM  44478  NE2 GLN K  93     215.514 128.529 -55.501  1.00 91.69      KS11
ATOM  44479  C   GLN K  93     214.015 125.944 -58.530  1.00 34.04      KS11
ATOM  44480  O   GLN K  93     214.775 126.725 -59.092  1.00 34.04      KS11
ATOM  44481  N   ALA K  94     213.805 124.705 -58.959  1.00 67.35      KS11
ATOM  44482  CA  ALA K  94     214.442 124.192 -60.161  1.00 67.35      KS11
ATOM  44483  CB  ALA K  94     213.744 122.933 -60.617  1.00 37.46      KS11
ATOM  44484  C   ALA K  94     214.318 125.261 -61.222  1.00 67.35      KS11
ATOM  44485  O   ALA K  94     215.245 125.503 -61.981  1.00 67.35      KS11
ATOM  44486  N   ILE K  95     213.155 125.898 -61.264  1.00 26.63      KS11
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ATOM  44487  CA  ILE K  95     212.898 126.965 -62.216  1.00 26.63      KS11
ATOM  44488  CB  ILE K  95     211.436 127.476 -62.085  1.00 27.19      KS11
ATOM  44489  CG2 ILE K  95     211.122 128.487 -63.187  1.00 27.19      KS11
ATOM  44490  CG1 ILE K  95     210.473 126.288 -62.166  1.00 27.19      KS11
ATOM  44491  CD1 ILE K  95     209.020 126.661 -62.189  1.00 27.19      KS11
ATOM  44492  C   ILE K  95     213.878 128.114 -61.939  1.00 26.63      KS11
ATOM  44493  O   ILE K  95     214.548 128.617 -62.844  1.00 26.63      KS11
ATOM  44494  N   ARG K  96     213.967 128.525 -60.681  1.00 57.10      KS11
ATOM  44495  CA  ARG K  96     214.879 129.595 -60.316  1.00 57.10      KS11
ATOM  44496  CB  ARG K  96     215.045 129.650 -58.795  1.00165.90      KS11
ATOM  44497  CG  ARG K  96     214.877 131.039 -58.196  1.00165.90      KS11
ATOM  44498  CD  ARG K  96     213.417 131.476 -58.162  1.00165.90      KS11
ATOM  44499  NE  ARG K  96     212.662 130.807 -57.104  1.00165.90      KS11
ATOM  44500  CZ  ARG K  96     211.370 131.016 -56.859  1.00165.90      KS11
ATOM  44501  NH1 ARG K  96     210.681 131.878 -57.597  1.00165.90      KS11
ATOM  44502  NH2 ARG K  96     210.766 130.367 -55.873  1.00165.90      KS11
ATOM  44503  C   ARG K  96     216.214 129.266 -60.985  1.00 57.10      KS11
ATOM  44504  O   ARG K  96     216.871 130.126 -61.565  1.00 57.10      KS11
ATOM  44505  N   ALA K  97     216.591 127.998 -60.921  1.00 42.45      KS11
ATOM  44506  CA  ALA K  97     217.834 127.546 -61.517  1.00 42.45      KS11
ATOM  44507  CB  ALA K  97     218.039 126.074 -61.216  1.00 86.31      KS11
ATOM  44508  C   ALA K  97     217.862 127.790 -63.029  1.00 42.45      KS11
ATOM  44509  O   ALA K  97     218.600 128.651 -63.498  1.00 42.45      KS11
ATOM  44510  N   LEU K  98     217.064 127.039 -63.786  1.00 53.45      KS11
ATOM  44511  CA  LEU K  98     217.021 127.197 -65.241  1.00 53.45      KS11
ATOM  44512  CB  LEU K  98     215.780 126.547 -65.835  1.00 30.45      KS11
ATOM  44513  CG  LEU K  98     215.661 125.036 -65.745  1.00 30.45      KS11
ATOM  44514  CD1 LEU K  98     214.642 124.584 -66.770  1.00 30.45      KS11
ATOM  44515  CD2 LEU K  98     217.006 124.381 -66.006  1.00 30.45      KS11
ATOM  44516  C   LEU K  98     217.023 128.644 -65.680  1.00 53.45      KS11
ATOM  44517  O   LEU K  98     217.771 129.019 -66.580  1.00 53.45      KS11
ATOM  44518  N   GLN K  99     216.169 129.452 -65.059  1.00122.34      KS11
ATOM  44519  CA  GLN K  99     216.087 130.862 -65.408  1.00122.34      KS11
ATOM  44520  CB  GLN K  99     215.204 131.612 -64.410  1.00119.98      KS11
ATOM  44521  CG  GLN K  99     213.750 131.172 -64.444  1.00119.98      KS11
ATOM  44522  CD  GLN K  99     212.841 132.082 -63.644  1.00119.98      KS11
ATOM  44523  OE1 GLN K  99     213.061 132.311 -62.455  1.00119.98      KS11
ATOM  44524  NE2 GLN K  99     211.808 132.604 -64.294  1.00119.98      KS11
ATOM  44525  C   GLN K  99     217.485 131.453 -65.437  1.00122.34      KS11
ATOM  44526  O   GLN K  99     217.853 132.139 -66.394  1.00122.34      KS11
ATOM  44527  N   ALA K 100     218.264 131.181 -64.393  1.00 62.14      KS11
ATOM  44528  CA  ALA K 100     219.642 131.666 -64.332  1.00 62.14      KS11
ATOM  44529  CB  ALA K 100     220.180 131.542 -62.915  1.00127.23      KS11
ATOM  44530  C   ALA K 100     220.486 130.823 -65.298  1.00 62.14      KS11
ATOM  44531  O   ALA K 100     220.420 130.997 -66.522  1.00 62.14      KS11
ATOM  44532  N   SER K 101     221.287 129.919 -64.745  1.00 85.50      KS11
ATOM  44533  CA  SER K 101     222.100 129.030 -65.562  1.00 85.50      KS11
ATOM  44534  CB  SER K 101     221.204 127.961 -66.180  1.00 40.32      KS11
ATOM  44535  OG  SER K 101     220.234 128.549 -67.027  1.00 40.32      KS11
ATOM  44536  C   SER K 101     222.856 129.723 -66.684  1.00 85.50      KS11
ATOM  44537  O   SER K 101     223.919 130.308 -66.479  1.00 85.50      KS11
ATOM  44538  N   GLY K 102     222.294 129.618 -67.883  1.00 98.26      KS11
ATOM  44539  CA  GLY K 102     222.885 130.216 -69.060  1.00 98.26      KS11
ATOM  44540  C   GLY K 102     221.869 130.111 -70.174  1.00 98.26      KS11
ATOM  44541  O   GLY K 102     222.045 130.650 -71.265  1.00 98.26      KS11
ATOM  44542  N   LEU K 103     220.786 129.404 -69.887  1.00 63.04      KS11
ATOM  44543  CA  LEU K 103     219.724 129.223 -70.861  1.00 63.04      KS11
ATOM  44544  CB  LEU K 103     218.992 127.920 -70.597  1.00 31.43      KS11
ATOM  44545  CG  LEU K 103     219.925 126.762 -70.906  1.00 31.43      KS11
ATOM  44546  CD1 LEU K 103     219.447 125.462 -70.276  1.00 31.43      KS11
ATOM  44547  CD2 LEU K 103     220.006 126.662 -72.411  1.00 31.43      KS11
ATOM  44548  C   LEU K 103     218.739 130.371 -70.861  1.00 63.04      KS11
ATOM  44549  O   LEU K 103     218.672 131.169 -69.922  1.00 63.04      KS11
ATOM  44550  N   GLN K 104     217.965 130.433 -71.931  1.00 58.29      KS11
ATOM  44551  CA  GLN K 104     216.997 131.493 -72.099  1.00 58.29      KS11
ATOM  44552  CB  GLN K 104     217.183 132.121 -73.482  1.00114.25      KS11
ATOM  44553  CG  GLN K 104     216.769 133.569 -73.582  1.00114.25      KS11
ATOM  44554  CD  GLN K 104     215.280 133.744 -73.469  1.00114.25      KS11
ATOM  44555  OE1 GLN K 104     214.676 133.363 -72.468  1.00114.25      KS11
ATOM  44556  NE2 GLN K 104     214.673 134.321 -74.498  1.00114.25      KS11
ATOM  44557  C   GLN K 104     215.617 130.890 -71.955  1.00 58.29      KS11
ATOM  44558  O   GLN K 104     215.064 130.354 -72.909  1.00 58.29      KS11
ATOM  44559  N   VAL K 105     215.077 130.972 -70.744  1.00 49.55      KS11
ATOM  44560  CA  VAL K 105     213.756 130.438 -70.447  1.00 49.55      KS11
ATOM  44561  CB  VAL K 105     213.462 130.457 -68.953  1.00 26.71      KS11
ATOM  44562  CG1 VAL K 105     212.139 129.773 -68.693  1.00 26.71      KS11
ATOM  44563  CG2 VAL K 105     214.589 129.801 -68.184  1.00 26.71      KS11
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ATOM  44564  C   VAL K 105     212.700 131.299 -71.098  1.00 49.55      KS11
ATOM  44565  O   VAL K 105     212.249 132.274 -70.507  1.00 49.55      KS11
ATOM  44566  N   LYS K 106     212.300 130.943 -72.309  1.00 73.87      KS11
ATOM  44567  CA  LYS K 106     211.285 131.714 -73.006  1.00 73.87      KS11
ATOM  44568  CB  LYS K 106     210.986 131.082 -74.369  1.00139.99      KS11
ATOM  44569  CG  LYS K 106     212.174 131.041 -75.324  1.00139.99      KS11
ATOM  44570  CD  LYS K 106     212.603 132.437 -75.749  1.00139.99      KS11
ATOM  44571  CE  LYS K 106     213.740 132.383 -76.760  1.00139.99      KS11
ATOM  44572  NZ  LYS K 106     214.136 133.737 -77.247  1.00139.99      KS11
ATOM  44573  C   LYS K 106     210.000 131.802 -72.179  1.00 73.87      KS11
ATOM  44574  O   LYS K 106     209.469 132.892 -71.975  1.00 73.87      KS11
ATOM  44575  N   SER K 107     209.522 130.659 -71.683  1.00 62.01      KS11
ATOM  44576  CA  SER K 107     208.279 130.614 -70.907  1.00 62.01      KS11
ATOM  44577  CB  SER K 107     207.104 130.355 -71.837  1.00 49.81      KS11
ATOM  44578  OG  SER K 107     207.052 128.969 -72.151  1.00 49.81      KS11
ATOM  44579  C   SER K 107     208.220 129.544 -69.820  1.00 62.01      KS11
ATOM  44580  O   SER K 107     209.103 128.701 -69.683  1.00 62.01      KS11
ATOM  44581  N   ILE K 108     207.131 129.577 -69.066  1.00 37.73      KS11
ATOM  44582  CA  ILE K 108     206.901 128.615 -68.004  1.00 37.73      KS11
ATOM  44583  CB  ILE K 108     207.234 129.210 -66.631  1.00 21.34      KS11
ATOM  44584  CG2 ILE K 108     207.002 128.173 -65.548  1.00 21.34      KS11
ATOM  44585  CG1 ILE K 108     208.687 129.682 -66.626  1.00 21.34      KS11
ATOM  44586  CD1 ILE K 108     209.177 130.220 -65.295  1.00 21.34      KS11
ATOM  44587  C   ILE K 108     205.440 128.186 -68.022  1.00 37.73      KS11
ATOM  44588  O   ILE K 108     204.545 128.974 -68.343  1.00 37.73      KS11
ATOM  44589  N   VAL K 109     205.203 126.928 -67.684  1.00 30.66      KS11
ATOM  44590  CA  VAL K 109     203.854 126.408 -67.678  1.00 30.66      KS11
ATOM  44591  CB  VAL K 109     203.468 125.858 -69.038  1.00 19.74      KS11
ATOM  44592  CG1 VAL K 109     202.158 125.115 -68.941  1.00 19.74      KS11
ATOM  44593  CG2 VAL K 109     203.352 126.974 -70.020  1.00 19.74      KS11
ATOM  44594  C   VAL K 109     203.686 125.275 -66.701  1.00 30.66      KS11
ATOM  44595  O   VAL K 109     204.551 124.400 -66.600  1.00 30.66      KS11
ATOM  44596  N   ASP K 110     202.575 125.292 -65.973  1.00 28.92      KS11
ATOM  44597  CA  ASP K 110     202.310 124.203 -65.064  1.00 28.92      KS11
ATOM  44598  CB  ASP K 110     201.588 124.666 -63.797  1.00104.31      KS11
ATOM  44599  CG  ASP K 110     201.411 123.535 -62.784  1.00104.31      KS11
ATOM  44600  OD1 ASP K 110     200.682 122.567 -63.095  1.00104.31      KS11
ATOM  44601  OD2 ASP K 110     202.006 123.609 -61.683  1.00104.31      KS11
ATOM  44602  C   ASP K 110     201.411 123.289 -65.867  1.00 28.92      KS11
ATOM  44603  O   ASP K 110     200.304 123.671 -66.234  1.00 28.92      KS11
ATOM  44604  N   ASP K 111     201.915 122.104 -66.176  1.00 39.77      KS11
ATOM  44605  CA  ASP K 111     201.154 121.134 -66.927  1.00 39.77      KS11
ATOM  44606  CB  ASP K 111     201.820 120.827 -68.268  1.00104.94      KS11
ATOM  44607  CG  ASP K 111     201.023 119.828 -69.095  1.00104.94      KS11
ATOM  44608  OD1 ASP K 111     199.879 120.150 -69.473  1.00104.94      KS11
ATOM  44609  OD2 ASP K 111     201.530 118.717 -69.359  1.00104.94      KS11
ATOM  44610  C   ASP K 111     201.068 119.866 -66.104  1.00 39.77      KS11
ATOM  44611  O   ASP K 111     201.198 118.766 -66.635  1.00 39.77      KS11
ATOM  44612  N   THR K 112     200.879 120.010 -64.799  1.00 43.97      KS11
ATOM  44613  CA  THR K 112     200.753 118.837 -63.942  1.00 43.97      KS11
ATOM  44614  CB  THR K 112     200.577 119.249 -62.478  1.00 52.35      KS11
ATOM  44615  OG1 THR K 112     201.732 119.979 -62.039  1.00 52.35      KS11
ATOM  44616  CG2 THR K 112     200.384 118.021 -61.615  1.00 52.35      KS11
ATOM  44617  C   THR K 112     199.513 118.053 -64.401  1.00 43.97      KS11
ATOM  44618  O   THR K 112     198.542 118.639 -64.870  1.00 43.97      KS11
ATOM  44619  N   PRO K 113     199.529 116.721 -64.284  1.00 58.33      KS11
ATOM  44620  CD  PRO K 113     200.684 115.817 -64.164  1.00 54.18      KS11
ATOM  44621  CA  PRO K 113     198.346 115.985 -64.731  1.00 58.33      KS11
ATOM  44622  CB  PRO K 113     198.955 114.784 -65.415  1.00 54.18      KS11
ATOM  44623  CG  PRO K 113     200.076 114.460 -64.483  1.00 54.18      KS11
ATOM  44624  C   PRO K 113     197.384 115.577 -63.620  1.00 58.33      KS11
ATOM  44625  O   PRO K 113     197.724 114.778 -62.750  1.00 58.33      KS11
ATOM  44626  N   VAL K 114     196.173 116.121 -63.667  1.00 59.27      KS11
ATOM  44627  CA  VAL K 114     195.142 115.817 -62.683  1.00 59.27      KS11
ATOM  44628  CB  VAL K 114     194.538 117.110 -62.107  1.00162.10      KS11
ATOM  44629  CG1 VAL K 114     193.992 117.975 -63.235  1.00162.10      KS11
ATOM  44630  CG2 VAL K 114     193.440 116.773 -61.113  1.00162.10      KS11
ATOM  44631  C   VAL K 114     194.048 115.030 -63.386  1.00 59.27      KS11
ATOM  44632  O   VAL K 114     193.757 115.273 -64.549  1.00 59.27      KS11
ATOM  44633  N   PRO K 115     193.438 114.063 -62.696  1.00 49.23      KS11
ATOM  44634  CD  PRO K 115     193.902 113.456 -61.451  1.00 18.07      KS11
ATOM  44635  CA  PRO K 115     192.372 113.243 -63.272  1.00 49.23      KS11
ATOM  44636  CB  PRO K 115     192.488 111.912 -62.534  1.00 18.07      KS11
ATOM  44637  CG  PRO K 115     193.748 112.003 -61.776  1.00 18.07      KS11
ATOM  44638  C   PRO K 115     191.024 113.843 -62.990  1.00 49.23      KS11
ATOM  44639  O   PRO K 115     190.804 114.383 -61.900  1.00 49.23      KS11
ATOM  44640  N   HIS K 116     190.120 113.722 -63.959  1.00 33.76      KS11
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ATOM  44641  CA  HIS K 116     188.763 114.208 -63.792  1.00 33.76      KS11
ATOM  44642  CB  HIS K 116     188.189 114.495 -65.167  1.00 37.98      KS11
ATOM  44643  CG  HIS K 116     188.970 115.534 -65.911  1.00 37.98      KS11
ATOM  44644  CD2 HIS K 116     188.776 116.115 -67.119  1.00 37.98      KS11
ATOM  44645  ND1 HIS K 116     190.105 116.115 -65.386  1.00 37.98      KS11
ATOM  44646  CE1 HIS K 116     190.574 117.011 -66.236  1.00 37.98      KS11
ATOM  44647  NE2 HIS K 116     189.787 117.032 -67.296  1.00 37.98      KS11
ATOM  44648  C   HIS K 116     188.012 113.109 -63.013  1.00 33.76      KS11
ATOM  44649  O   HIS K 116     186.864 112.741 -63.307  1.00 33.76      KS11
ATOM  44650  N   ASN K 117     188.740 112.622 -61.999  1.00 66.55      KS11
ATOM  44651  CA  ASN K 117     188.369 111.572 -61.056  1.00 66.55      KS11
ATOM  44652  CB  ASN K 117     187.130 111.980 -60.282  1.00100.66      KS11
ATOM  44653  CG  ASN K 117     187.477 112.842 -59.098  1.00100.66      KS11
ATOM  44654  OD1 ASN K 117     187.946 112.346 -58.069  1.00100.66      KS11
ATOM  44655  ND2 ASN K 117     187.286 114.147 -59.241  1.00100.66      KS11
ATOM  44656  C   ASN K 117     188.216 110.196 -61.660  1.00 66.55      KS11
ATOM  44657  O   ASN K 117     187.171 109.852 -62.195  1.00 66.55      KS11
ATOM  44658  N   GLY K 118     189.274 109.399 -61.557  1.00 44.69      KS11
ATOM  44659  CA  GLY K 118     189.228 108.074 -62.132  1.00 44.69      KS11
ATOM  44660  C   GLY K 118     189.750 106.925 -61.292  1.00 44.69      KS11
ATOM  44661  O   GLY K 118     188.964 106.086 -60.837  1.00 44.69      KS11
ATOM  44662  N   CYS K 119     191.061 106.858 -61.083  1.00 43.05      KS11
ATOM  44663  CA  CYS K 119     191.612 105.744 -60.314  1.00 43.05      KS11
ATOM  44664  CB  CYS K 119     193.015 105.405 -60.817  1.00 59.52      KS11
ATOM  44665  SG  CYS K 119     193.013 104.496 -62.375  1.00 59.52      KS11
ATOM  44666  C   CYS K 119     191.638 105.947 -58.809  1.00 43.05      KS11
ATOM  44667  O   CYS K 119     192.055 106.996 -58.325  1.00 43.05      KS11
ATOM  44668  N   ARG K 120     191.188 104.948 -58.056  1.00 30.86      KS11
ATOM  44669  CA  ARG K 120     191.208 105.110 -56.612  1.00 30.86      KS11
ATOM  44670  CB  ARG K 120     190.534 103.943 -55.883  1.00 30.25      KS11
ATOM  44671  CG  ARG K 120     190.768 104.005 -54.364  1.00 30.25      KS11
ATOM  44672  CD  ARG K 120     190.201 102.831 -53.605  1.00 30.25      KS11
ATOM  44673  NE  ARG K 120     188.866 103.112 -53.090  1.00 30.25      KS11
ATOM  44674  CZ  ARG K 120     188.501 102.956 -51.815  1.00 30.25      KS11
ATOM  44675  NH1 ARG K 120     189.371 102.525 -50.911  1.00 30.25      KS11
ATOM  44676  NH2 ARG K 120     187.260 103.212 -51.436  1.00 30.25      KS11
ATOM  44677  C   ARG K 120     192.643 105.194 -56.150  1.00 30.86      KS11
ATOM  44678  O   ARG K 120     193.430 104.275 -56.366  1.00 30.86      KS11
ATOM  44679  N   PRO K 121     193.014 106.300 -55.513  1.00 24.84      KS11
ATOM  44680  CD  PRO K 121     192.248 107.533 -55.338  1.00 24.94      KS11
ATOM  44681  CA  PRO K 121     194.384 106.464 -55.025  1.00 24.84      KS11
ATOM  44682  CB  PRO K 121     194.427 107.922 -54.622  1.00 24.94      KS11
ATOM  44683  CG  PRO K 121     193.014 108.192 -54.242  1.00 24.94      KS11
ATOM  44684  C   PRO K 121     194.704 105.535 -53.862  1.00 24.84      KS11
ATOM  44685  O   PRO K 121     193.811 104.908 -53.298  1.00 24.84      KS11
ATOM  44686  N   LYS K 122     195.984 105.443 -53.517  1.00 22.05      KS11
ATOM  44687  CA  LYS K 122     196.427 104.585 -52.420  1.00 22.05      KS11
ATOM  44688  CB  LYS K 122     197.954 104.500 -52.397  1.00 80.44      KS11
ATOM  44689  CG  LYS K 122     198.581 104.055 -53.702  1.00 80.44      KS11
ATOM  44690  CD  LYS K 122     200.049 104.432 -53.761  1.00 80.44      KS11
ATOM  44691  CE  LYS K 122     200.831 103.822 -52.607  1.00 80.44      KS11
ATOM  44692  NZ  LYS K 122     202.258 104.301 -52.550  1.00 80.44      KS11
ATOM  44693  C   LYS K 122     195.943 105.185 -51.105  1.00 22.05      KS11
ATOM  44694  O   LYS K 122     195.744 106.409 -51.007  1.00 22.05      KS11
ATOM  44695  N   LYS K 123     195.756 104.319 -50.105  1.00 22.43      KS11
ATOM  44696  CA  LYS K 123     195.300 104.751 -48.788  1.00 22.43      KS11
ATOM  44697  CB  LYS K 123     195.557 103.669 -47.743  1.00 50.81      KS11
ATOM  44698  CG  LYS K 123     195.245 104.079 -46.310  1.00 50.81      KS11
ATOM  44699  CD  LYS K 123     195.325 102.866 -45.381  1.00 50.81      KS11
ATOM  44700  CE  LYS K 123     195.455 103.256 -43.906  1.00 50.81      KS11
ATOM  44701  NZ  LYS K 123     195.977 102.126 -43.058  1.00 50.81      KS11
ATOM  44702  C   LYS K 123     196.084 105.986 -48.446  1.00 22.43      KS11
ATOM  44703  O   LYS K 123     195.543 106.967 -47.972  1.00 22.43      KS11
ATOM  44704  N   LYS K 124     197.375 105.928 -48.716  1.00 36.02      KS11
ATOM  44705  CA  LYS K 124     198.276 107.034 -48.465  1.00 36.02      KS11
ATOM  44706  CB  LYS K 124     199.598 106.727 -49.177  1.00 86.06      KS11
ATOM  44707  CG  LYS K 124     200.718 107.721 -49.010  1.00 86.06      KS11
ATOM  44708  CD  LYS K 124     201.940 107.198 -49.747  1.00 86.06      KS11
ATOM  44709  CE  LYS K 124     202.941 108.300 -50.042  1.00 86.06      KS11
ATOM  44710  NZ  LYS K 124     203.938 107.886 -51.081  1.00 86.06      KS11
ATOM  44711  C   LYS K 124     197.678 108.361 -48.947  1.00 36.02      KS11
ATOM  44712  O   LYS K 124     197.881 109.391 -48.320  1.00 36.02      KS11
ATOM  44713  N   PHE K 125     196.910 108.336 -50.033  1.00 45.36      KS11
ATOM  44714  CA  PHE K 125     196.338 109.567 -50.580  1.00 45.36      KS11
ATOM  44715  CB  PHE K 125     196.771 109.742 -52.033  1.00 46.66      KS11
ATOM  44716  CG  PHE K 125     198.255 109.759 -52.235  1.00 46.66      KS11
ATOM  44717  CD1 PHE K 125     198.843 108.929 -53.175  1.00 46.66      KS11
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ATOM  44718  CD2 PHE K 125     199.063 110.615 -51.505  1.00 46.66      KS11
ATOM  44719  CE1 PHE K 125     200.212 108.955 -53.381  1.00 46.66      KS11
ATOM  44720  CE2 PHE K 125     200.435 110.645 -51.709  1.00 46.66      KS11
ATOM  44721  CZ  PHE K 125     201.007 109.815 -52.646  1.00 46.66      KS11
ATOM  44722  C   PHE K 125     194.818 109.689 -50.542  1.00 45.36      KS11
ATOM  44723  O   PHE K 125     194.263 110.649 -51.092  1.00 45.36      KS11
ATOM  44724  N   ARG K 126     194.144 108.729 -49.916  1.00 81.75      KS11
ATOM  44725  CA  ARG K 126     192.684 108.742 -49.841  1.00 81.75      KS11
ATOM  44726  CB  ARG K 126     192.164 107.391 -49.366  1.00 72.98      KS11
ATOM  44727  CG  ARG K 126     192.335 106.250 -50.343  1.00 72.98      KS11
ATOM  44728  CD  ARG K 126     191.065 105.428 -50.363  1.00 72.98      KS11
ATOM  44729  NE  ARG K 126     190.001 106.195 -51.002  1.00 72.98      KS11
ATOM  44730  CZ  ARG K 126     188.745 106.243 -50.579  1.00 72.98      KS11
ATOM  44731  NH1 ARG K 126     188.382 105.563 -49.499  1.00 72.98      KS11
ATOM  44732  NH2 ARG K 126     187.857 106.979 -51.235  1.00 72.98      KS11
ATOM  44733  C   ARG K 126     192.104 109.826 -48.942  1.00 81.75      KS11
ATOM  44734  O   ARG K 126     192.630 110.930 -48.868  1.00 81.75      KS11
ATOM  44735  N   LYS K 127     191.012 109.492 -48.256  1.00199.33      KS11
ATOM  44736  CA  LYS K 127     190.320 110.427 -47.372  1.00199.33      KS11
ATOM  44737  CB  LYS K 127     191.152 110.716 -46.119  1.00156.35      KS11
ATOM  44738  CG  LYS K 127     190.753 109.885 -44.906  1.00156.35      KS11
ATOM  44739  CD  LYS K 127     189.297 110.129 -44.529  1.00156.35      KS11
ATOM  44740  CE  LYS K 127     188.892 109.334 -43.295  1.00156.35      KS11
ATOM  44741  NZ  LYS K 127     189.607 109.780 -42.066  1.00156.35      KS11
ATOM  44742  C   LYS K 127     190.027 111.721 -48.112  1.00199.33      KS11
ATOM  44743  O   LYS K 127     189.785 112.763 -47.503  1.00199.33      KS11
ATOM  44744  N   ALA K 128     190.049 111.634 -49.437  1.00201.30      KS11
ATOM  44745  CA  ALA K 128     189.793 112.777 -50.298  1.00201.30      KS11
ATOM  44746  CB  ALA K 128     190.017 112.376 -51.754  1.00 93.69      KS11
ATOM  44747  C   ALA K 128     188.370 113.307 -50.101  1.00201.30      KS11
ATOM  44748  O   ALA K 128     188.107 114.062 -49.164  1.00201.30      KS11
ATOM  44749  N   SER K 129     187.463 112.905 -50.991  1.00201.30      KS11
ATOM  44750  CA  SER K 129     186.057 113.316 -50.949  1.00201.30      KS11
ATOM  44751  CB  SER K 129     185.340 112.657 -49.761  1.00201.30      KS11
ATOM  44752  OG  SER K 129     185.886 113.073 -48.521  1.00201.30      KS11
ATOM  44753  C   SER K 129     185.858 114.830 -50.892  1.00201.30      KS11
ATOM  44754  O   SER K 129     186.861 115.568 -50.999  1.00201.30      KS11
ATOM  44755  OXT SER K 129     184.692 115.261 -50.754  1.00201.30      KS11
TER   44755       SER K 129                                             KS11

ATOM  44756  CB  PRO L   5     150.164 101.925 -24.676  1.00 19.96      LS12
ATOM  44757  CG  PRO L   5     151.207 102.016 -23.571  1.00 19.96      LS12
ATOM  44758  C   PRO L   5     148.969 103.876 -25.623  1.00 19.35      LS12
ATOM  44759  O   PRO L   5     148.474 104.596 -24.772  1.00 19.35      LS12
ATOM  44760  N   PRO L   5     151.022 104.188 -24.461  1.00 19.35      LS12
ATOM  44761  CD  PRO L   5     151.245 103.513 -23.172  1.00 19.96      LS12
ATOM  44762  CA  PRO L   5     150.323 103.266 -25.388  1.00 19.35      LS12
ATOM  44763  N   THR L   6     148.359 103.609 -26.764  1.00  7.38      LS12
ATOM  44764  CA  THR L   6     147.048 104.176 -26.998  1.00  7.38      LS12
ATOM  44765  CB  THR L   6     146.696 104.242 -28.476  1.00 12.27      LS12
ATOM  44766  OG1 THR L   6     146.312 102.945 -28.932  1.00 12.27      LS12
ATOM  44767  CG2 THR L   6     147.871 104.724 -29.268  1.00 12.27      LS12
ATOM  44768  C   THR L   6     146.040 103.278 -26.310  1.00  7.38      LS12
ATOM  44769  O   THR L   6     146.320 102.119 -26.023  1.00  7.38      LS12
ATOM  44770  N   ILE L   7     144.864 103.825 -26.039  1.00 17.19      LS12
ATOM  44771  CA  ILE L   7     143.827 103.069 -25.381  1.00 17.19      LS12
ATOM  44772  CB  ILE L   7     142.571 103.910 -25.199  1.00  5.91      LS12
ATOM  44773  CG2 ILE L   7     141.373 103.020 -25.047  1.00  5.91      LS12
ATOM  44774  CG1 ILE L   7     142.734 104.826 -23.986  1.00  5.91      LS12
ATOM  44775  CD1 ILE L   7     142.766 104.125 -22.647  1.00  5.91      LS12
ATOM  44776  C   ILE L   7     143.517 101.866 -26.222  1.00 17.19      LS12
ATOM  44777  O   ILE L   7     143.291 100.789 -25.695  1.00 17.19      LS12
ATOM  44778  N   ASN L   8     143.511 102.036 -27.535  1.00 15.70      LS12
ATOM  44779  CA  ASN L   8     143.227 100.892 -28.385  1.00 15.70      LS12
ATOM  44780  CB  ASN L   8     143.247 101.273 -29.862  1.00 28.88      LS12
ATOM  44781  CG  ASN L   8     142.655 100.189 -30.745  1.00 28.88      LS12
ATOM  44782  OD1 ASN L   8     141.544  99.723 -30.501  1.00 28.88      LS12
ATOM  44783  ND2 ASN L   8     143.387  99.789 -31.780  1.00 28.88      LS12
ATOM  44784  C   ASN L   8     144.301  99.866 -28.106  1.00 15.70      LS12
ATOM  44785  O   ASN L   8     144.002  98.697 -27.882  1.00 15.70      LS12
ATOM  44786  N   GLN L   9     145.551 100.324 -28.111  1.00 10.31      LS12
ATOM  44787  CA  GLN L   9     146.696  99.471 -27.842  1.00 10.31      LS12
ATOM  44788  CB  GLN L   9     147.982 100.290 -27.816  1.00 42.86      LS12
ATOM  44789  CG  GLN L   9     148.417 100.848 -29.140  1.00 42.86      LS12
ATOM  44790  CD  GLN L   9     149.821 101.411 -29.074  1.00 42.86      LS12
ATOM  44791  OE1 GLN L   9     150.062 102.476 -28.492  1.00 42.86      LS12
ATOM  44792  NE2 GLN L   9     150.764 100.687 -29.661  1.00 42.86      LS12
ATOM  44793  C   GLN L   9     146.545  98.784 -26.489  1.00 10.31      LS12
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ATOM  44794  O   GLN L   9     146.837  97.602 -26.352  1.00 10.31      LS12
ATOM  44795  N   LEU L  10     146.114  99.532 -25.480  1.00 12.88      LS12
ATOM  44796  CA  LEU L  10     145.939  98.961 -24.158  1.00 12.88      LS12
ATOM  44797  CB  LEU L  10     145.578 100.024 -23.141  1.00 29.91      LS12
ATOM  44798  CG  LEU L  10     146.779 100.662 -22.462  1.00 29.91      LS12
ATOM  44799  CD1 LEU L  10     146.269 101.637 -21.428  1.00 29.91      LS12
ATOM  44800  CD2 LEU L  10     147.653  99.603 -21.809  1.00 29.91      LS12
ATOM  44801  C   LEU L  10     144.850  97.941 -24.184  1.00 12.88      LS12
ATOM  44802  O   LEU L  10     144.844  97.030 -23.386  1.00 12.88      LS12
ATOM  44803  N   VAL L  11     143.908  98.093 -25.098  1.00 40.32      LS12
ATOM  44804  CA  VAL L  11     142.820  97.137 -25.182  1.00 40.32      LS12
ATOM  44805  CB  VAL L  11     141.625  97.721 -25.974  1.00 13.18      LS12
ATOM  44806  CG1 VAL L  11     140.627  96.657 -26.284  1.00 13.18      LS12
ATOM  44807  CG2 VAL L  11     140.949  98.770 -25.158  1.00 13.18      LS12
ATOM  44808  C   VAL L  11     143.337  95.884 -25.861  1.00 40.32      LS12
ATOM  44809  O   VAL L  11     143.037  94.774 -25.442  1.00 40.32      LS12
ATOM  44810  N   ARG L  12     144.140  96.072 -26.896  1.00 24.68      LS12
ATOM  44811  CA  ARG L  12     144.680  94.957 -27.642  1.00 24.68      LS12
ATOM  44812  CB  ARG L  12     145.267  95.448 -28.963  1.00 60.97      LS12
ATOM  44813  CG  ARG L  12     144.308  96.234 -29.809  1.00 60.97      LS12
ATOM  44814  CD  ARG L  12     144.784  96.336 -31.248  1.00 60.97      LS12
ATOM  44815  NE  ARG L  12     146.125  96.905 -31.373  1.00 60.97      LS12
ATOM  44816  CZ  ARG L  12     147.227  96.188 -31.559  1.00 60.97      LS12
ATOM  44817  NH1 ARG L  12     147.160  94.864 -31.641  1.00 60.97      LS12
ATOM  44818  NH2 ARG L  12     148.396  96.796 -31.689  1.00 60.97      LS12
ATOM  44819  C   ARG L  12     145.748  94.164 -26.900  1.00 24.68      LS12
ATOM  44820  O   ARG L  12     145.802  92.939 -27.017  1.00 24.68      LS12
ATOM  44821  N   LYS L  13     146.600  94.853 -26.147  1.00 26.94      LS12
ATOM  44822  CA  LYS L  13     147.677  94.186 -25.429  1.00 26.94      LS12
ATOM  44823  CB  LYS L  13     149.010  94.659 -25.998  1.00 80.26      LS12
ATOM  44824  CG  LYS L  13     149.123  94.370 -27.477  1.00 80.26      LS12
ATOM  44825  CD  LYS L  13     150.400  94.921 -28.085  1.00 80.26      LS12
ATOM  44826  CE  LYS L  13     150.480  94.595 -29.577  1.00 80.26      LS12
ATOM  44827  NZ  LYS L  13     151.705  95.149 -30.218  1.00 80.26      LS12
ATOM  44828  C   LYS L  13     147.657  94.352 -23.905  1.00 26.94      LS12
ATOM  44829  O   LYS L  13     148.253  93.562 -23.180  1.00 26.94      LS12
ATOM  44830  N   GLY L  14     146.978  95.375 -23.413  1.00 32.73      LS12
ATOM  44831  CA  GLY L  14     146.916  95.572 -21.977  1.00 32.73      LS12
ATOM  44832  C   GLY L  14     148.264  95.642 -21.302  1.00 32.73      LS12
ATOM  44833  O   GLY L  14     149.293  95.634 -21.959  1.00 32.73      LS12
ATOM  44834  N   ARG L  15     148.260  95.712 -19.981  1.00 39.36      LS12
ATOM  44835  CA  ARG L  15     149.500  95.795 -19.234  1.00 39.36      LS12
ATOM  44836  CB  ARG L  15     149.306  96.683 -18.008  1.00 43.20      LS12
ATOM  44837  CG  ARG L  15     148.947  98.126 -18.341  1.00 43.20      LS12
ATOM  44838  CD  ARG L  15     150.073  98.819 -19.077  1.00 43.20      LS12
ATOM  44839  NE  ARG L  15     149.877 100.264 -19.111  1.00 43.20      LS12
ATOM  44840  CZ  ARG L  15     150.761 101.131 -19.591  1.00 43.20      LS12
ATOM  44841  NH1 ARG L  15     151.913 100.706 -20.085  1.00 43.20      LS12
ATOM  44842  NH2 ARG L  15     150.495 102.426 -19.572  1.00 43.20      LS12
ATOM  44843  C   ARG L  15     149.938  94.407 -18.812  1.00 39.36      LS12
ATOM  44844  O   ARG L  15     149.154  93.467 -18.891  1.00 39.36      LS12
ATOM  44845  N   GLU L  16     151.189  94.291 -18.364  1.00 28.06      LS12
ATOM  44846  CA  GLU L  16     151.779  93.020 -17.925  1.00 28.06      LS12
ATOM  44847  CB  GLU L  16     153.007  92.708 -18.787  1.00155.09      LS12
ATOM  44848  CG  GLU L  16     153.741  91.427 -18.436  1.00155.09      LS12
ATOM  44849  CD  GLU L  16     154.870  91.123 -19.409  1.00155.09      LS12
ATOM  44850  OE1 GLU L  16     154.589  90.960 -20.616  1.00155.09      LS12
ATOM  44851  OE2 GLU L  16     156.038  91.048 -18.971  1.00155.09      LS12
ATOM  44852  C   GLU L  16     152.179  93.116 -16.453  1.00 28.06      LS12
ATOM  44853  O   GLU L  16     153.039  93.923 -16.103  1.00 28.06      LS12
ATOM  44854  N   LYS L  17     151.561  92.289 -15.606  1.00 22.00      LS12
ATOM  44855  CA  LYS L  17     151.818  92.298 -14.159  1.00 22.00      LS12
ATOM  44856  CB  LYS L  17     150.677  91.578 -13.434  1.00102.59      LS12
ATOM  44857  CG  LYS L  17     149.268  92.122 -13.728  1.00102.59      LS12
ATOM  44858  CD  LYS L  17     148.725  93.054 -12.624  1.00102.59      LS12
ATOM  44859  CE  LYS L  17     149.197  94.516 -12.741  1.00102.59      LS12
ATOM  44860  NZ  LYS L  17     148.524  95.316 -13.822  1.00102.59      LS12
ATOM  44861  C   LYS L  17     153.165  91.685 -13.740  1.00 22.00      LS12
ATOM  44862  O   LYS L  17     153.650  90.734 -14.354  1.00 22.00      LS12
ATOM  44863  N   VAL L  18     153.761  92.224 -12.680  1.00131.08      LS12
ATOM  44864  CA  VAL L  18     155.058  91.741 -12.200  1.00131.08      LS12
ATOM  44865  CB  VAL L  18     155.776  92.835 -11.368  1.00 97.69      LS12
ATOM  44866  CG1 VAL L  18     157.162  92.359 -10.957  1.00 97.69      LS12
ATOM  44867  CG2 VAL L  18     155.880  94.118 -12.178  1.00 97.69      LS12
ATOM  44868  C   VAL L  18     154.991  90.457 -11.362  1.00131.08      LS12
ATOM  44869  O   VAL L  18     153.998  90.198 -10.685  1.00131.08      LS12
ATOM  44870  N   ARG L  19     156.063  89.665 -11.422  1.00 73.47      LS12
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ATOM  44871  CA  ARG L  19     156.193  88.404 -10.684  1.00 73.47      LS12
ATOM  44872  CB  ARG L  19     155.930  87.224 -11.620  1.00201.30      LS12
ATOM  44873  CG  ARG L  19     156.721  87.290 -12.917  1.00201.30      LS12
ATOM  44874  CD  ARG L  19     156.347  86.168 -13.867  1.00201.30      LS12
ATOM  44875  NE  ARG L  19     156.955  86.353 -15.182  1.00201.30      LS12
ATOM  44876  CZ  ARG L  19     156.761  85.543 -16.218  1.00201.30      LS12
ATOM  44877  NH1 ARG L  19     155.973  84.484 -16.097  1.00201.30      LS12
ATOM  44878  NH2 ARG L  19     157.351  85.794 -17.379  1.00201.30      LS12
ATOM  44879  C   ARG L  19     157.619  88.329 -10.137  1.00 73.47      LS12
ATOM  44880  O   ARG L  19     158.567  88.160 -10.901  1.00 73.47      LS12
ATOM  44881  N   LYS L  20     157.768  88.448  -8.819  1.00 73.86      LS12
ATOM  44882  CA  LYS L  20     159.089  88.429  -8.184  1.00 73.86      LS12
ATOM  44883  CB  LYS L  20     159.080  89.362  -6.968  1.00143.65      LS12
ATOM  44884  CG  LYS L  20     158.741  90.804  -7.338  1.00143.65      LS12
ATOM  44885  CD  LYS L  20     158.737  91.745  -6.139  1.00143.65      LS12
ATOM  44886  CE  LYS L  20     158.401  93.175  -6.571  1.00143.65      LS12
ATOM  44887  NZ  LYS L  20     158.418  94.155  -5.446  1.00143.65      LS12
ATOM  44888  C   LYS L  20     159.629  87.045  -7.791  1.00 73.86      LS12
ATOM  44889  O   LYS L  20     158.860  86.118  -7.532  1.00 73.86      LS12
ATOM  44890  N   LYS L  21     160.961  86.929  -7.759  1.00 54.78      LS12
ATOM  44891  CA  LYS L  21     161.660  85.682  -7.426  1.00 54.78      LS12
ATOM  44892  CB  LYS L  21     162.975  85.589  -8.205  1.00201.15      LS12
ATOM  44893  CG  LYS L  21     162.801  85.688  -9.714  1.00201.15      LS12
ATOM  44894  CD  LYS L  21     164.137  85.820 -10.436  1.00201.15      LS12
ATOM  44895  CE  LYS L  21     163.932  86.101 -11.923  1.00201.15      LS12
ATOM  44896  NZ  LYS L  21     165.212  86.351 -12.644  1.00201.15      LS12
ATOM  44897  C   LYS L  21     161.944  85.595  -5.934  1.00 54.78      LS12
ATOM  44898  O   LYS L  21     162.282  86.598  -5.307  1.00 54.78      LS12
ATOM  44899  N   SER L  22     161.807  84.391  -5.380  1.00 58.21      LS12
ATOM  44900  CA  SER L  22     162.012  84.158  -3.953  1.00 58.21      LS12
ATOM  44901  CB  SER L  22     161.201  82.946  -3.487  1.00110.75      LS12
ATOM  44902  OG  SER L  22     161.316  82.751  -2.086  1.00110.75      LS12
ATOM  44903  C   SER L  22     163.469  83.936  -3.644  1.00 58.21      LS12
ATOM  44904  O   SER L  22     164.038  82.915  -4.012  1.00 58.21      LS12
ATOM  44905  N   LYS L  23     164.068  84.891  -2.944  1.00 41.30      LS12
ATOM  44906  CA  LYS L  23     165.478  84.816  -2.599  1.00 41.30      LS12
ATOM  44907  CB  LYS L  23     165.914  86.112  -1.921  1.00119.16      LS12
ATOM  44908  CG  LYS L  23     165.439  87.352  -2.640  1.00119.16      LS12
ATOM  44909  CD  LYS L  23     165.901  88.615  -1.945  1.00119.16      LS12
ATOM  44910  CE  LYS L  23     165.247  89.831  -2.577  1.00119.16      LS12
ATOM  44911  NZ  LYS L  23     165.388  89.828  -4.063  1.00119.16      LS12
ATOM  44912  C   LYS L  23     165.778  83.649  -1.679  1.00 41.30      LS12
ATOM  44913  O   LYS L  23     166.876  83.550  -1.149  1.00 41.30      LS12
ATOM  44914  N   VAL L  24     164.823  82.749  -1.506  1.00 31.31      LS12
ATOM  44915  CA  VAL L  24     165.039  81.650  -0.590  1.00 31.31      LS12
ATOM  44916  CB  VAL L  24     164.538  82.041   0.828  1.00 70.88      LS12
ATOM  44917  CG1 VAL L  24     164.752  80.895   1.811  1.00 70.88      LS12
ATOM  44918  CG2 VAL L  24     165.261  83.280   1.308  1.00 70.88      LS12
ATOM  44919  C   VAL L  24     164.424  80.301  -0.938  1.00 31.31      LS12
ATOM  44920  O   VAL L  24     163.367  79.944  -0.423  1.00 31.31      LS12
ATOM  44921  N   PRO L  25     165.023  79.559  -1.869  1.00 19.47      LS12
ATOM  44922  CD  PRO L  25     165.642  79.980  -3.142  1.00 12.18      LS12
ATOM  44923  CA  PRO L  25     164.294  78.296  -2.027  1.00 19.47      LS12
ATOM  44924  CB  PRO L  25     164.797  77.774  -3.354  1.00 12.18      LS12
ATOM  44925  CG  PRO L  25     164.964  79.066  -4.134  1.00 12.18      LS12
ATOM  44926  C   PRO L  25     164.610  77.380  -0.827  1.00 19.47      LS12
ATOM  44927  O   PRO L  25     165.478  76.490  -0.857  1.00 19.47      LS12
ATOM  44928  N   ALA L  26     163.913  77.685   0.264  1.00 89.91      LS12
ATOM  44929  CA  ALA L  26     163.988  76.930   1.503  1.00 89.91      LS12
ATOM  44930  CB  ALA L  26     163.587  77.831   2.745  1.00  2.30      LS12
ATOM  44931  C   ALA L  26     162.888  75.949   1.147  1.00 89.91      LS12
ATOM  44932  O   ALA L  26     162.306  75.291   2.000  1.00 89.91      LS12
ATOM  44933  N   LEU L  27     162.622  75.900  -0.159  1.00 83.69      LS12
ATOM  44934  CA  LEU L  27     161.607  75.059  -0.790  1.00 83.69      LS12
ATOM  44935  CB  LEU L  27     162.122  73.628  -0.985  1.00201.19      LS12
ATOM  44936  CG  LEU L  27     161.268  72.739  -1.903  1.00201.19      LS12
ATOM  44937  CD1 LEU L  27     161.227  73.348  -3.296  1.00201.19      LS12
ATOM  44938  CD2 LEU L  27     161.837  71.329  -1.963  1.00201.19      LS12
ATOM  44939  C   LEU L  27     160.323  75.041   0.009  1.00 83.69      LS12
ATOM  44940  O   LEU L  27     160.251  75.631   1.085  1.00 83.69      LS12
ATOM  44941  N   LYS L  28     159.310  74.360  -0.515  1.00201.30      LS12
ATOM  44942  CA  LYS L  28     158.019  74.295   0.156  1.00201.30      LS12
ATOM  44943  CB  LYS L  28     158.079  73.386   1.391  1.00201.30      LS12
ATOM  44944  CG  LYS L  28     157.990  71.890   1.120  1.00201.30      LS12
ATOM  44945  CD  LYS L  28     157.692  71.140   2.419  1.00201.30      LS12
ATOM  44946  CE  LYS L  28     157.605  69.636   2.210  1.00201.30      LS12
ATOM  44947  NZ  LYS L  28     157.254  68.932   3.477  1.00201.30      LS12
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ATOM  44948  C   LYS L  28     157.633  75.700   0.600  1.00201.30      LS12
ATOM  44949  O   LYS L  28     156.632  75.885   1.296  1.00201.30      LS12
ATOM  44950  N   GLY L  29     158.429  76.686   0.187  1.00 33.21      LS12
ATOM  44951  CA  GLY L  29     158.171  78.059   0.585  1.00 33.21      LS12
ATOM  44952  C   GLY L  29     157.820  78.114   2.058  1.00 33.21      LS12
ATOM  44953  O   GLY L  29     156.914  78.834   2.460  1.00 33.21      LS12
ATOM  44954  N   ALA L  30     158.548  77.335   2.856  1.00 35.17      LS12
ATOM  44955  CA  ALA L  30     158.330  77.241   4.291  1.00 35.17      LS12
ATOM  44956  CB  ALA L  30     158.722  75.877   4.771  1.00 29.14      LS12
ATOM  44957  C   ALA L  30     159.115  78.281   5.044  1.00 35.17      LS12
ATOM  44958  O   ALA L  30     159.940  78.979   4.471  1.00 35.17      LS12
ATOM  44959  N   PRO L  31     158.864  78.398   6.353  1.00 26.87      LS12
ATOM  44960  CD  PRO L  31     157.744  77.763   7.062  1.00 49.05      LS12
ATOM  44961  CA  PRO L  31     159.541  79.361   7.226  1.00 26.87      LS12
ATOM  44962  CB  PRO L  31     158.666  79.380   8.478  1.00 49.05      LS12
ATOM  44963  CG  PRO L  31     157.347  78.841   8.008  1.00 49.05      LS12
ATOM  44964  C   PRO L  31     160.951  78.911   7.554  1.00 26.87      LS12
ATOM  44965  O   PRO L  31     161.831  79.724   7.780  1.00 26.87      LS12
ATOM  44966  N   PHE L  32     161.146  77.604   7.602  1.00 54.99      LS12
ATOM  44967  CA  PHE L  32     162.446  77.043   7.913  1.00 54.99      LS12
ATOM  44968  CB  PHE L  32     162.601  76.836   9.414  1.00 12.38      LS12
ATOM  44969  CG  PHE L  32     162.340  78.055  10.227  1.00 12.38      LS12
ATOM  44970  CD1 PHE L  32     163.318  79.015  10.393  1.00 12.38      LS12
ATOM  44971  CD2 PHE L  32     161.101  78.248  10.829  1.00 12.38      LS12
ATOM  44972  CE1 PHE L  32     163.061  80.148  11.147  1.00 12.38      LS12
ATOM  44973  CE2 PHE L  32     160.840  79.375  11.578  1.00 12.38      LS12
ATOM  44974  CZ  PHE L  32     161.818  80.324  11.737  1.00 12.38      LS12
ATOM  44975  C   PHE L  32     162.532  75.686   7.249  1.00 54.99      LS12
ATOM  44976  O   PHE L  32     161.537  75.164   6.734  1.00 54.99      LS12
ATOM  44977  N   ARG L  33     163.728  75.111   7.277  1.00 46.90      LS12
ATOM  44978  CA  ARG L  33     163.939  73.799   6.711  1.00 46.90      LS12
ATOM  44979  CB  ARG L  33     164.475  73.916   5.294  1.00 82.82      LS12
ATOM  44980  CG  ARG L  33     164.354  72.642   4.495  1.00 82.82      LS12
ATOM  44981  CD  ARG L  33     162.992  72.503   3.813  1.00 82.82      LS12
ATOM  44982  NE  ARG L  33     161.884  72.156   4.702  1.00 82.82      LS12
ATOM  44983  CZ  ARG L  33     160.671  71.823   4.262  1.00 82.82      LS12
ATOM  44984  NH1 ARG L  33     160.433  71.799   2.956  1.00 82.82      LS12
ATOM  44985  NH2 ARG L  33     159.697  71.515   5.116  1.00 82.82      LS12
ATOM  44986  C   ARG L  33     164.954  73.099   7.598  1.00 46.90      LS12
ATOM  44987  O   ARG L  33     165.893  73.727   8.096  1.00 46.90      LS12
ATOM  44988  N   ARG L  34     164.746  71.804   7.813  1.00 44.77      LS12
ATOM  44989  CA  ARG L  34     165.653  71.004   8.627  1.00 44.77      LS12
ATOM  44990  CB  ARG L  34     164.889  69.897   9.344  1.00 94.16      LS12
ATOM  44991  CG  ARG L  34     165.626  69.333  10.533  1.00 94.16      LS12
ATOM  44992  CD  ARG L  34     165.309  67.865  10.739  1.00 94.16      LS12
ATOM  44993  NE  ARG L  34     166.247  67.016  10.011  1.00 94.16      LS12
ATOM  44994  CZ  ARG L  34     166.303  65.691  10.119  1.00 94.16      LS12
ATOM  44995  NH1 ARG L  34     165.462  65.057  10.929  1.00 94.16      LS12
ATOM  44996  NH2 ARG L  34     167.216  65.006   9.433  1.00 94.16      LS12
ATOM  44997  C   ARG L  34     166.712  70.371   7.726  1.00 44.77      LS12
ATOM  44998  O   ARG L  34     166.419  69.905   6.622  1.00 44.77      LS12
ATOM  44999  N   GLY L  35     167.949  70.348   8.198  1.00 43.83      LS12
ATOM  45000  CA  GLY L  35     169.001  69.768   7.393  1.00 43.83      LS12
ATOM  45001  C   GLY L  35     170.161  69.248   8.207  1.00 43.83      LS12
ATOM  45002  O   GLY L  35     170.190  69.364   9.438  1.00 43.83      LS12
ATOM  45003  N   VAL L  36     171.119  68.659   7.501  1.00 45.82      LS12
ATOM  45004  CA  VAL L  36     172.313  68.115   8.120  1.00 45.82      LS12
ATOM  45005  CB  VAL L  36     172.454  66.628   7.864  1.00 46.50      LS12
ATOM  45006  CG1 VAL L  36     173.688  66.120   8.564  1.00 46.50      LS12
ATOM  45007  CG2 VAL L  36     171.216  65.896   8.354  1.00 46.50      LS12
ATOM  45008  C   VAL L  36     173.530  68.787   7.536  1.00 45.82      LS12
ATOM  45009  O   VAL L  36     173.583  69.080   6.337  1.00 45.82      LS12
ATOM  45010  N   CYS L  37     174.518  69.025   8.386  1.00 58.25      LS12
ATOM  45011  CA  CYS L  37     175.734  69.662   7.929  1.00 58.25      LS12
ATOM  45012  CB  CYS L  37     176.572  70.087   9.118  1.00 48.47      LS12
ATOM  45013  SG  CYS L  37     175.701  71.260  10.123  1.00 48.47      LS12
ATOM  45014  C   CYS L  37     176.527  68.736   7.036  1.00 58.25      LS12
ATOM  45015  O   CYS L  37     176.073  67.667   6.652  1.00 58.25      LS12
ATOM  45016  N   THR L  38     177.733  69.148   6.715  1.00 53.98      LS12
ATOM  45017  CA  THR L  38     178.565  68.358   5.846  1.00 53.98      LS12
ATOM  45018  CB  THR L  38     178.143  68.543   4.388  1.00 52.45      LS12
ATOM  45019  OG1 THR L  38     176.855  67.958   4.189  1.00 52.45      LS12
ATOM  45020  CG2 THR L  38     179.137  67.903   3.461  1.00 52.45      LS12
ATOM  45021  C   THR L  38     179.960  68.886   6.008  1.00 53.98      LS12
ATOM  45022  O   THR L  38     180.848  68.201   6.498  1.00 53.98      LS12
ATOM  45023  N   VAL L  39     180.133  70.131   5.596  1.00 44.07      LS12
ATOM  45024  CA  VAL L  39     181.415  70.774   5.679  1.00 44.07      LS12
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ATOM  45025  CB  VAL L  39     181.911  71.168   4.293  1.00 58.85      LS12
ATOM  45026  CG1 VAL L  39     183.395  71.476   4.341  1.00 58.85      LS12
ATOM  45027  CG2 VAL L  39     181.615  70.056   3.313  1.00 58.85      LS12
ATOM  45028  C   VAL L  39     181.301  72.025   6.511  1.00 44.07      LS12
ATOM  45029  O   VAL L  39     181.046  73.099   5.977  1.00 44.07      LS12
ATOM  45030  N   VAL L  40     181.461  71.890   7.820  1.00 20.40      LS12
ATOM  45031  CA  VAL L  40     181.415  73.057   8.687  1.00 20.40      LS12
ATOM  45032  CB  VAL L  40     181.287  72.642  10.147  1.00 25.95      LS12
ATOM  45033  CG1 VAL L  40     181.330  73.867  11.052  1.00 25.95      LS12
ATOM  45034  CG2 VAL L  40     179.998  71.879  10.328  1.00 25.95      LS12
ATOM  45035  C   VAL L  40     182.740  73.778   8.479  1.00 20.40      LS12
ATOM  45036  O   VAL L  40     183.684  73.571   9.230  1.00 20.40      LS12
ATOM  45037  N   ARG L  41     182.791  74.628   7.457  1.00 40.62      LS12
ATOM  45038  CA  ARG L  41     184.003  75.351   7.084  1.00 40.62      LS12
ATOM  45039  CB  ARG L  41     184.007  75.535   5.561  1.00 94.74      LS12
ATOM  45040  CG  ARG L  41     185.345  75.922   4.979  1.00 94.74      LS12
ATOM  45041  CD  ARG L  41     185.223  76.537   3.598  1.00 94.74      LS12
ATOM  45042  NE  ARG L  41     184.909  75.560   2.560  1.00 94.74      LS12
ATOM  45043  CZ  ARG L  41     183.691  75.090   2.307  1.00 94.74      LS12
ATOM  45044  NH1 ARG L  41     182.654  75.511   3.022  1.00 94.74      LS12
ATOM  45045  NH2 ARG L  41     183.507  74.202   1.335  1.00 94.74      LS12
ATOM  45046  C   ARG L  41     184.276  76.714   7.758  1.00 40.62      LS12
ATOM  45047  O   ARG L  41     183.935  76.957   8.923  1.00 40.62      LS12
ATOM  45048  N   THR L  42     184.928  77.574   6.977  1.00 57.28      LS12
ATOM  45049  CA  THR L  42     185.337  78.933   7.317  1.00 57.28      LS12
ATOM  45050  CB  THR L  42     186.743  78.959   7.925  1.00 68.33      LS12
ATOM  45051  OG1 THR L  42     186.641  78.975   9.350  1.00 68.33      LS12
ATOM  45052  CG2 THR L  42     187.518  80.178   7.452  1.00 68.33      LS12
ATOM  45053  C   THR L  42     185.404  79.608   5.962  1.00 57.28      LS12
ATOM  45054  O   THR L  42     185.881  79.019   5.004  1.00 57.28      LS12
ATOM  45055  N   VAL L  43     184.939  80.839   5.866  1.00 38.96      LS12
ATOM  45056  CA  VAL L  43     184.963  81.517   4.584  1.00 38.96      LS12
ATOM  45057  CB  VAL L  43     183.543  81.663   4.041  1.00 63.57      LS12
ATOM  45058  CG1 VAL L  43     183.577  82.210   2.639  1.00 63.57      LS12
ATOM  45059  CG2 VAL L  43     182.846  80.326   4.074  1.00 63.57      LS12
ATOM  45060  C   VAL L  43     185.575  82.896   4.738  1.00 38.96      LS12
ATOM  45061  O   VAL L  43     185.739  83.384   5.863  1.00 38.96      LS12
ATOM  45062  N   THR L  44     185.920  83.524   3.617  1.00 63.31      LS12
ATOM  45063  CA  THR L  44     186.491  84.865   3.658  1.00 63.31      LS12
ATOM  45064  CB  THR L  44     187.903  84.887   3.105  1.00 69.50      LS12
ATOM  45065  OG1 THR L  44     187.845  84.684   1.690  1.00 69.50      LS12
ATOM  45066  CG2 THR L  44     188.739  83.786   3.746  1.00 69.50      LS12
ATOM  45067  C   THR L  44     185.640  85.839   2.839  1.00 63.31      LS12
ATOM  45068  O   THR L  44     185.244  85.540   1.709  1.00 63.31      LS12
ATOM  45069  N   PRO L  45     185.353  87.022   3.412  1.00 30.41      LS12
ATOM  45070  CD  PRO L  45     185.763  87.334   4.790  1.00 59.25      LS12
ATOM  45071  CA  PRO L  45     184.566  88.129   2.863  1.00 30.41      LS12
ATOM  45072  CB  PRO L  45     184.724  89.215   3.914  1.00 59.25      LS12
ATOM  45073  CG  PRO L  45     184.809  88.441   5.154  1.00 59.25      LS12
ATOM  45074  C   PRO L  45     184.934  88.642   1.480  1.00 30.41      LS12
ATOM  45075  O   PRO L  45     185.999  88.349   0.919  1.00 30.41      LS12
ATOM  45076  N   LYS L  46     184.027  89.458   0.965  1.00 28.84      LS12
ATOM  45077  CA  LYS L  46     184.141  90.051  -0.352  1.00 28.84      LS12
ATOM  45078  CB  LYS L  46     182.752  90.045  -1.012  1.00 61.72      LS12
ATOM  45079  CG  LYS L  46     182.739  90.273  -2.519  1.00 61.72      LS12
ATOM  45080  CD  LYS L  46     181.346  90.062  -3.129  1.00 61.72      LS12
ATOM  45081  CE  LYS L  46     180.400  91.246  -2.912  1.00 61.72      LS12
ATOM  45082  NZ  LYS L  46     180.654  92.386  -3.830  1.00 61.72      LS12
ATOM  45083  C   LYS L  46     184.718  91.470  -0.354  1.00 28.84      LS12
ATOM  45084  O   LYS L  46     185.297  91.948   0.627  1.00 28.84      LS12
ATOM  45085  N   LYS L  47     184.535  92.117  -1.499  1.00128.60      LS12
ATOM  45086  CA  LYS L  47     184.992  93.463  -1.776  1.00128.60      LS12
ATOM  45087  CB  LYS L  47     183.805  94.354  -2.168  1.00153.96      LS12
ATOM  45088  CG  LYS L  47     183.190  94.077  -3.525  1.00153.96      LS12
ATOM  45089  CD  LYS L  47     182.034  95.039  -3.784  1.00153.96      LS12
ATOM  45090  CE  LYS L  47     181.439  94.850  -5.172  1.00153.96      LS12
ATOM  45091  NZ  LYS L  47     180.286  95.765  -5.418  1.00153.96      LS12
ATOM  45092  C   LYS L  47     185.815  94.161  -0.708  1.00128.60      LS12
ATOM  45093  O   LYS L  47     187.031  94.267  -0.850  1.00128.60      LS12
ATOM  45094  N   PRO L  48     185.183  94.623   0.389  1.00 50.68      LS12
ATOM  45095  CD  PRO L  48     183.793  95.074   0.565  1.00 27.87      LS12
ATOM  45096  CA  PRO L  48     186.036  95.304   1.363  1.00 50.68      LS12
ATOM  45097  CB  PRO L  48     185.437  96.693   1.381  1.00 27.87      LS12
ATOM  45098  CG  PRO L  48     183.969  96.369   1.409  1.00 27.87      LS12
ATOM  45099  C   PRO L  48     186.135  94.742   2.768  1.00 50.68      LS12
ATOM  45100  O   PRO L  48     186.504  95.458   3.691  1.00 50.68      LS12
ATOM  45101  N   ASN L  49     185.816  93.479   2.963  1.00 98.41      LS12
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ATOM  45102  CA  ASN L  49     185.924  92.981   4.311  1.00 98.41      LS12
ATOM  45103  CB  ASN L  49     184.559  92.572   4.829  1.00 42.91      LS12
ATOM  45104  CG  ASN L  49     183.729  93.756   5.215  1.00 42.91      LS12
ATOM  45105  OD1 ASN L  49     182.642  93.610   5.753  1.00 42.91      LS12
ATOM  45106  ND2 ASN L  49     184.242  94.949   4.945  1.00 42.91      LS12
ATOM  45107  C   ASN L  49     186.890  91.846   4.457  1.00 98.41      LS12
ATOM  45108  O   ASN L  49     187.339  91.268   3.469  1.00 98.41      LS12
ATOM  45109  N   SER L  50     187.224  91.548   5.706  1.00 23.48      LS12
ATOM  45110  CA  SER L  50     188.133  90.461   6.006  1.00 23.48      LS12
ATOM  45111  CB  SER L  50     189.571  90.974   6.014  1.00 60.63      LS12
ATOM  45112  OG  SER L  50     190.490  89.921   6.236  1.00 60.63      LS12
ATOM  45113  C   SER L  50     187.757  89.893   7.360  1.00 23.48      LS12
ATOM  45114  O   SER L  50     187.468  90.646   8.279  1.00 23.48      LS12
ATOM  45115  N   ALA L  51     187.745  88.570   7.474  1.00 36.07      LS12
ATOM  45116  CA  ALA L  51     187.412  87.903   8.731  1.00 36.07      LS12
ATOM  45117  CB  ALA L  51     186.263  88.620   9.438  1.00114.46      LS12
ATOM  45118  C   ALA L  51     187.023  86.466   8.456  1.00 36.07      LS12
ATOM  45119  O   ALA L  51     186.313  86.182   7.496  1.00 36.07      LS12
ATOM  45120  N   LEU L  52     187.476  85.547   9.289  1.00 46.46      LS12
ATOM  45121  CA  LEU L  52     187.124  84.161   9.058  1.00 46.46      LS12
ATOM  45122  CB  LEU L  52     187.989  83.239   9.915  1.00 80.25      LS12
ATOM  45123  CG  LEU L  52     189.503  83.390   9.770  1.00 80.25      LS12
ATOM  45124  CD1 LEU L  52     190.170  82.177  10.393  1.00 80.25      LS12
ATOM  45125  CD2 LEU L  52     189.890  83.514   8.304  1.00 80.25      LS12
ATOM  45126  C   LEU L  52     185.658  83.963   9.396  1.00 46.46      LS12
ATOM  45127  O   LEU L  52     185.308  83.805  10.561  1.00 46.46      LS12
ATOM  45128  N   ARG L  53     184.801  83.985   8.379  1.00 38.03      LS12
ATOM  45129  CA  ARG L  53     183.366  83.800   8.590  1.00 38.03      LS12
ATOM  45130  CB  ARG L  53     182.571  84.360   7.391  1.00 38.61      LS12
ATOM  45131  CG  ARG L  53     182.078  85.806   7.550  1.00 38.61      LS12
ATOM  45132  CD  ARG L  53     183.246  86.712   7.712  1.00 38.61      LS12
ATOM  45133  NE  ARG L  53     182.932  88.031   8.259  1.00 38.61      LS12
ATOM  45134  CZ  ARG L  53     182.271  88.992   7.619  1.00 38.61      LS12
ATOM  45135  NH1 ARG L  53     181.807  88.805   6.379  1.00 38.61      LS12
ATOM  45136  NH2 ARG L  53     182.136  90.176   8.209  1.00 38.61      LS12
ATOM  45137  C   ARG L  53     183.022  82.323   8.804  1.00 38.03      LS12
ATOM  45138  O   ARG L  53     183.261  81.498   7.925  1.00 38.03      LS12
ATOM  45139  N   LYS L  54     182.467  81.986   9.965  1.00 34.02      LS12
ATOM  45140  CA  LYS L  54     182.117  80.593  10.231  1.00 34.02      LS12
ATOM  45141  CB  LYS L  54     181.871  80.358  11.724  1.00 57.88      LS12
ATOM  45142  CG  LYS L  54     183.127  80.393  12.589  1.00 57.88      LS12
ATOM  45143  CD  LYS L  54     183.804  81.750  12.518  1.00 57.88      LS12
ATOM  45144  CE  LYS L  54     185.074  81.786  13.341  1.00 57.88      LS12
ATOM  45145  NZ  LYS L  54     185.822  83.062  13.124  1.00 57.88      LS12
ATOM  45146  C   LYS L  54     180.889  80.179   9.417  1.00 34.02      LS12
ATOM  45147  O   LYS L  54     179.821  80.793   9.504  1.00 34.02      LS12
ATOM  45148  N   VAL L  55     181.058  79.112   8.639  1.00 58.65      LS12
ATOM  45149  CA  VAL L  55     180.020  78.611   7.751  1.00 58.65      LS12
ATOM  45150  CB  VAL L  55     180.325  79.088   6.323  1.00 19.54      LS12
ATOM  45151  CG1 VAL L  55     179.613  78.226   5.323  1.00 19.54      LS12
ATOM  45152  CG2 VAL L  55     179.914  80.544   6.157  1.00 19.54      LS12
ATOM  45153  C   VAL L  55     179.907  77.087   7.737  1.00 58.65      LS12
ATOM  45154  O   VAL L  55     180.861  76.388   8.052  1.00 58.65      LS12
ATOM  45155  N   ALA L  56     178.740  76.578   7.352  1.00 24.74      LS12
ATOM  45156  CA  ALA L  56     178.522  75.134   7.265  1.00 24.74      LS12
ATOM  45157  CB  ALA L  56     177.780  74.651   8.497  1.00102.90      LS12
ATOM  45158  C   ALA L  56     177.742  74.731   6.009  1.00 24.74      LS12
ATOM  45159  O   ALA L  56     176.759  75.379   5.652  1.00 24.74      LS12
ATOM  45160  N   LYS L  57     178.188  73.682   5.321  1.00 51.62      LS12
ATOM  45161  CA  LYS L  57     177.465  73.208   4.144  1.00 51.62      LS12
ATOM  45162  CB  LYS L  57     178.278  72.185   3.359  1.00 71.05      LS12
ATOM  45163  CG  LYS L  57     179.478  72.771   2.644  1.00 71.05      LS12
ATOM  45164  CD  LYS L  57     179.061  73.727   1.541  1.00 71.05      LS12
ATOM  45165  CE  LYS L  57     180.282  74.360   0.880  1.00 71.05      LS12
ATOM  45166  NZ  LYS L  57     179.940  75.459  -0.087  1.00 71.05      LS12
ATOM  45167  C   LYS L  57     176.247  72.543   4.750  1.00 51.62      LS12
ATOM  45168  O   LYS L  57     176.266  72.168   5.924  1.00 51.62      LS12
ATOM  45169  N   VAL L  58     175.181  72.390   3.980  1.00 39.44      LS12
ATOM  45170  CA  VAL L  58     173.989  71.800   4.556  1.00 39.44      LS12
ATOM  45171  CB  VAL L  58     173.058  72.897   5.132  1.00 48.56      LS12
ATOM  45172  CG1 VAL L  58     171.957  72.262   5.965  1.00 48.56      LS12
ATOM  45173  CG2 VAL L  58     173.849  73.884   5.968  1.00 48.56      LS12
ATOM  45174  C   VAL L  58     173.174  70.983   3.580  1.00 39.44      LS12
ATOM  45175  O   VAL L  58     172.853  71.450   2.488  1.00 39.44      LS12
ATOM  45176  N   ARG L  59     172.849  69.757   3.985  1.00 48.99      LS12
ATOM  45177  CA  ARG L  59     172.010  68.856   3.196  1.00 48.99      LS12
ATOM  45178  CB  ARG L  59     172.367  67.402   3.485  1.00100.10      LS12
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ATOM  45179  CG  ARG L  59     171.398  66.387   2.898  1.00100.10      LS12
ATOM  45180  CD  ARG L  59     171.935  65.849   1.602  1.00100.10      LS12
ATOM  45181  NE  ARG L  59     173.285  65.334   1.795  1.00100.10      LS12
ATOM  45182  CZ  ARG L  59     174.111  65.006   0.807  1.00100.10      LS12
ATOM  45183  NH1 ARG L  59     173.725  65.138  -0.457  1.00100.10      LS12
ATOM  45184  NH2 ARG L  59     175.327  64.557   1.085  1.00100.10      LS12
ATOM  45185  C   ARG L  59     170.619  69.133   3.743  1.00 48.99      LS12
ATOM  45186  O   ARG L  59     170.415  69.093   4.954  1.00 48.99      LS12
ATOM  45187  N   LEU L  60     169.655  69.419   2.885  1.00 51.92      LS12
ATOM  45188  CA  LEU L  60     168.328  69.704   3.408  1.00 51.92      LS12
ATOM  45189  CB  LEU L  60     167.731  70.942   2.728  1.00 46.49      LS12
ATOM  45190  CG  LEU L  60     168.121  72.311   3.296  1.00 46.49      LS12
ATOM  45191  CD1 LEU L  60     167.566  72.440   4.684  1.00 46.49      LS12
ATOM  45192  CD2 LEU L  60     169.626  72.472   3.312  1.00 46.49      LS12
ATOM  45193  C   LEU L  60     167.373  68.543   3.269  1.00 51.92      LS12
ATOM  45194  O   LEU L  60     167.600  67.622   2.477  1.00 51.92      LS12
ATOM  45195  N   THR L  61     166.311  68.581   4.067  1.00109.90      LS12
ATOM  45196  CA  THR L  61     165.293  67.549   4.012  1.00109.90      LS12
ATOM  45197  CB  THR L  61     164.225  67.753   5.090  1.00 92.24      LS12
ATOM  45198  OG1 THR L  61     163.651  69.057   4.943  1.00 92.24      LS12
ATOM  45199  CG2 THR L  61     164.829  67.612   6.473  1.00 92.24      LS12
ATOM  45200  C   THR L  61     164.643  67.739   2.656  1.00109.90      LS12
ATOM  45201  O   THR L  61     164.318  66.773   1.964  1.00109.90      LS12
ATOM  45202  N   SER L  62     164.476  69.006   2.284  1.00 65.87      LS12
ATOM  45203  CA  SER L  62     163.878  69.370   1.007  1.00 65.87      LS12
ATOM  45204  CB  SER L  62     163.651  70.884   0.933  1.00 39.76      LS12
ATOM  45205  OG  SER L  62     164.869  71.605   0.818  1.00 39.76      LS12
ATOM  45206  C   SER L  62     164.765  68.939  -0.157  1.00 65.87      LS12
ATOM  45207  O   SER L  62     164.586  69.408  -1.282  1.00 65.87      LS12
ATOM  45208  N   GLY L  63     165.721  68.054   0.124  1.00127.98      LS12
ATOM  45209  CA  GLY L  63     166.625  67.565  -0.904  1.00127.98      LS12
ATOM  45210  C   GLY L  63     167.598  68.604  -1.436  1.00127.98      LS12
ATOM  45211  O   GLY L  63     168.208  68.400  -2.487  1.00127.98      LS12
ATOM  45212  N   TYR L  64     167.747  69.716  -0.718  1.00 82.39      LS12
ATOM  45213  CA  TYR L  64     168.654  70.782  -1.135  1.00 82.39      LS12
ATOM  45214  CB  TYR L  64     167.973  72.148  -1.029  1.00 92.50      LS12
ATOM  45215  CG  TYR L  64     167.252  72.577  -2.292  1.00 92.50      LS12
ATOM  45216  CD1 TYR L  64     166.091  71.930  -2.713  1.00 92.50      LS12
ATOM  45217  CE1 TYR L  64     165.439  72.314  -3.882  1.00 92.50      LS12
ATOM  45218  CD2 TYR L  64     167.744  73.622  -3.074  1.00 92.50      LS12
ATOM  45219  CE2 TYR L  64     167.102  74.011  -4.241  1.00 92.50      LS12
ATOM  45220  CZ  TYR L  64     165.952  73.354  -4.640  1.00 92.50      LS12
ATOM  45221  OH  TYR L  64     165.323  73.726  -5.805  1.00 92.50      LS12
ATOM  45222  C   TYR L  64     169.962  70.816  -0.357  1.00 82.39      LS12
ATOM  45223  O   TYR L  64     169.990  70.591   0.850  1.00 82.39      LS12
ATOM  45224  N   GLU L  65     171.044  71.106  -1.074  1.00 59.48      LS12
ATOM  45225  CA  GLU L  65     172.380  71.175  -0.499  1.00 59.48      LS12
ATOM  45226  CB  GLU L  65     173.349  70.328  -1.333  1.00156.85      LS12
ATOM  45227  CG  GLU L  65     172.929  68.864  -1.552  1.00156.85      LS12
ATOM  45228  CD  GLU L  65     171.628  68.703  -2.343  1.00156.85      LS12
ATOM  45229  OE1 GLU L  65     171.463  69.374  -3.386  1.00156.85      LS12
ATOM  45230  OE2 GLU L  65     170.775  67.889  -1.926  1.00156.85      LS12
ATOM  45231  C   GLU L  65     172.790  72.637  -0.556  1.00 59.48      LS12
ATOM  45232  O   GLU L  65     173.068  73.163  -1.630  1.00 59.48      LS12
ATOM  45233  N   VAL L  66     172.829  73.300   0.593  1.00 42.75      LS12
ATOM  45234  CA  VAL L  66     173.174  74.714   0.611  1.00 42.75      LS12
ATOM  45235  CB  VAL L  66     171.891  75.568   0.587  1.00 46.62      LS12
ATOM  45236  CG1 VAL L  66     171.098  75.272  -0.673  1.00 46.62      LS12
ATOM  45237  CG2 VAL L  66     171.045  75.270   1.806  1.00 46.62      LS12
ATOM  45238  C   VAL L  66     174.040  75.168   1.781  1.00 42.75      LS12
ATOM  45239  O   VAL L  66     173.972  74.615   2.878  1.00 42.75      LS12
ATOM  45240  N   THR L  67     174.843  76.195   1.518  1.00 49.78      LS12
ATOM  45241  CA  THR L  67     175.756  76.797   2.489  1.00 49.78      LS12
ATOM  45242  CB  THR L  67     176.861  77.577   1.766  1.00 89.12      LS12
ATOM  45243  OG1 THR L  67     177.546  76.714   0.852  1.00 89.12      LS12
ATOM  45244  CG2 THR L  67     177.840  78.142   2.756  1.00 89.12      LS12
ATOM  45245  C   THR L  67     175.015  77.791   3.378  1.00 49.78      LS12
ATOM  45246  O   THR L  67     174.427  78.748   2.875  1.00 49.78      LS12
ATOM  45247  N   ALA L  68     175.053  77.584   4.690  1.00 49.70      LS12
ATOM  45248  CA  ALA L  68     174.368  78.489   5.612  1.00 49.70      LS12
ATOM  45249  CB  ALA L  68     173.322  77.738   6.406  1.00 10.52      LS12
ATOM  45250  C   ALA L  68     175.335  79.166   6.565  1.00 49.70      LS12
ATOM  45251  O   ALA L  68     176.399  78.625   6.865  1.00 49.70      LS12
ATOM  45252  N   TYR L  69     174.957  80.344   7.052  1.00 50.58      LS12
ATOM  45253  CA  TYR L  69     175.799  81.093   7.977  1.00 50.58      LS12
ATOM  45254  CB  TYR L  69     175.499  82.573   7.893  1.00 50.14      LS12
ATOM  45255  CG  TYR L  69     176.456  83.393   8.712  1.00 50.14      LS12
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ATOM  45256  CD1 TYR L  69     177.744  83.633   8.253  1.00 50.14      LS12
ATOM  45257  CE1 TYR L  69     178.636  84.420   8.972  1.00 50.14      LS12
ATOM  45258  CD2 TYR L  69     176.076  83.955   9.931  1.00 50.14      LS12
ATOM  45259  CE2 TYR L  69     176.964  84.748  10.666  1.00 50.14      LS12
ATOM  45260  CZ  TYR L  69     178.243  84.977  10.170  1.00 50.14      LS12
ATOM  45261  OH  TYR L  69     179.139  85.788  10.827  1.00 50.14      LS12
ATOM  45262  C   TYR L  69     175.578  80.668   9.418  1.00 50.58      LS12
ATOM  45263  O   TYR L  69     174.486  80.234   9.782  1.00 50.58      LS12
ATOM  45264  N   ILE L  70     176.616  80.795  10.239  1.00 28.53      LS12
ATOM  45265  CA  ILE L  70     176.492  80.448  11.646  1.00 28.53      LS12
ATOM  45266  CB  ILE L  70     177.509  79.404  12.108  1.00 32.88      LS12
ATOM  45267  CG2 ILE L  70     177.189  79.018  13.531  1.00 32.88      LS12
ATOM  45268  CG1 ILE L  70     177.460  78.158  11.226  1.00 32.88      LS12
ATOM  45269  CD1 ILE L  70     178.541  77.131  11.548  1.00 32.88      LS12
ATOM  45270  C   ILE L  70     176.759  81.708  12.439  1.00 28.53      LS12
ATOM  45271  O   ILE L  70     177.904  82.035  12.742  1.00 28.53      LS12
ATOM  45272  N   PRO L  71     175.698  82.429  12.798  1.00 41.01      LS12
ATOM  45273  CD  PRO L  71     174.306  81.956  12.753  1.00 32.23      LS12
ATOM  45274  CA  PRO L  71     175.782  83.670  13.559  1.00 41.01      LS12
ATOM  45275  CB  PRO L  71     174.359  84.168  13.513  1.00 32.23      LS12
ATOM  45276  CG  PRO L  71     173.617  82.890  13.727  1.00 32.23      LS12
ATOM  45277  C   PRO L  71     176.199  83.369  14.979  1.00 41.01      LS12
ATOM  45278  O   PRO L  71     175.943  82.274  15.482  1.00 41.01      LS12
ATOM  45279  N   GLY L  72     176.837  84.341  15.620  1.00 63.63      LS12
ATOM  45280  CA  GLY L  72     177.242  84.160  17.000  1.00 63.63      LS12
ATOM  45281  C   GLY L  72     178.729  84.172  17.262  1.00 63.63      LS12
ATOM  45282  O   GLY L  72     179.534  84.125  16.332  1.00 63.63      LS12
ATOM  45283  N   GLU L  73     179.085  84.245  18.542  1.00 91.06      LS12
ATOM  45284  CA  GLU L  73     180.479  84.240  18.958  1.00 91.06      LS12
ATOM  45285  CB  GLU L  73     180.586  84.436  20.471  1.00121.79      LS12
ATOM  45286  CG  GLU L  73     180.324  85.870  20.925  1.00121.79      LS12
ATOM  45287  CD  GLU L  73     181.323  86.865  20.340  1.00121.79      LS12
ATOM  45288  OE1 GLU L  73     181.256  88.064  20.694  1.00121.79      LS12
ATOM  45289  OE2 GLU L  73     182.175  86.451  19.524  1.00121.79      LS12
ATOM  45290  C   GLU L  73     181.094  82.911  18.559  1.00 91.06      LS12
ATOM  45291  O   GLU L  73     181.857  82.842  17.600  1.00 91.06      LS12
ATOM  45292  N   GLY L  74     180.753  81.852  19.285  1.00 57.31      LS12
ATOM  45293  CA  GLY L  74     181.291  80.545  18.944  1.00 57.31      LS12
ATOM  45294  C   GLY L  74     180.240  79.455  18.870  1.00 57.31      LS12
ATOM  45295  O   GLY L  74     179.244  79.511  19.579  1.00 57.31      LS12
ATOM  45296  N   HIS L  75     180.452  78.452  18.029  1.00 55.65      LS12
ATOM  45297  CA  HIS L  75     179.472  77.384  17.922  1.00 55.65      LS12
ATOM  45298  CB  HIS L  75     178.935  77.289  16.504  1.00 59.00      LS12
ATOM  45299  CG  HIS L  75     179.958  76.868  15.503  1.00 59.00      LS12
ATOM  45300  CD2 HIS L  75     180.147  75.691  14.868  1.00 59.00      LS12
ATOM  45301  ND1 HIS L  75     180.946  77.714  15.050  1.00 59.00      LS12
ATOM  45302  CE1 HIS L  75     181.700  77.076  14.174  1.00 59.00      LS12
ATOM  45303  NE2 HIS L  75     181.236  75.847  14.046  1.00 59.00      LS12
ATOM  45304  C   HIS L  75     179.989  76.016  18.336  1.00 55.65      LS12
ATOM  45305  O   HIS L  75     181.020  75.900  19.004  1.00 55.65      LS12
ATOM  45306  N   ASN L  76     179.263  74.984  17.905  1.00 46.08      LS12
ATOM  45307  CA  ASN L  76     179.564  73.591  18.229  1.00 46.08      LS12
ATOM  45308  CB  ASN L  76     178.765  73.184  19.456  1.00 48.34      LS12
ATOM  45309  CG  ASN L  76     177.266  73.284  19.212  1.00 48.34      LS12
ATOM  45310  OD1 ASN L  76     176.774  74.327  18.788  1.00 48.34      LS12
ATOM  45311  ND2 ASN L  76     176.539  72.203  19.467  1.00 48.34      LS12
ATOM  45312  C   ASN L  76     179.105  72.713  17.081  1.00 46.08      LS12
ATOM  45313  O   ASN L  76     178.522  71.653  17.301  1.00 46.08      LS12
ATOM  45314  N   LEU L  77     179.346  73.137  15.855  1.00 41.54      LS12
ATOM  45315  CA  LEU L  77     178.879  72.325  14.750  1.00 41.54      LS12
ATOM  45316  CB  LEU L  77     178.197  73.213  13.703  1.00 31.55      LS12
ATOM  45317  CG  LEU L  77     177.019  74.062  14.199  1.00 31.55      LS12
ATOM  45318  CD1 LEU L  77     176.569  74.973  13.071  1.00 31.55      LS12
ATOM  45319  CD2 LEU L  77     175.875  73.181  14.694  1.00 31.55      LS12
ATOM  45320  C   LEU L  77     179.966  71.478  14.105  1.00 41.54      LS12
ATOM  45321  O   LEU L  77     180.995  71.992  13.654  1.00 41.54      LS12
ATOM  45322  N   GLN L  78     179.735  70.170  14.086  1.00 65.22      LS12
ATOM  45323  CA  GLN L  78     180.667  69.230  13.479  1.00 65.22      LS12
ATOM  45324  CB  GLN L  78     180.779  67.953  14.300  1.00104.30      LS12
ATOM  45325  CG  GLN L  78     181.163  68.150  15.735  1.00104.30      LS12
ATOM  45326  CD  GLN L  78     181.026  66.868  16.511  1.00104.30      LS12
ATOM  45327  OE1 GLN L  78     179.972  66.229  16.484  1.00104.30      LS12
ATOM  45328  NE2 GLN L  78     182.087  66.476  17.210  1.00104.30      LS12
ATOM  45329  C   GLN L  78     180.075  68.876  12.132  1.00 65.22      LS12
ATOM  45330  O   GLN L  78     179.125  69.506  11.683  1.00 65.22      LS12
ATOM  45331  N   GLU L  79     180.610  67.840  11.506  1.00138.00      LS12
ATOM  45332  CA  GLU L  79     180.121  67.437  10.204  1.00138.00      LS12
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ATOM  45333  CB  GLU L  79     181.008  66.349   9.614  1.00 86.44      LS12
ATOM  45334  CG  GLU L  79     180.466  65.798   8.319  1.00 86.44      LS12
ATOM  45335  CD  GLU L  79     181.405  64.821   7.670  1.00 86.44      LS12
ATOM  45336  OE1 GLU L  79     181.837  63.883   8.365  1.00 86.44      LS12
ATOM  45337  OE2 GLU L  79     181.707  64.987   6.468  1.00 86.44      LS12
ATOM  45338  C   GLU L  79     178.685  66.949  10.175  1.00138.00      LS12
ATOM  45339  O   GLU L  79     177.870  67.456   9.406  1.00138.00      LS12
ATOM  45340  N   HIS L  80     178.365  65.973  11.013  1.00 77.24      LS12
ATOM  45341  CA  HIS L  80     177.022  65.417  10.981  1.00 77.24      LS12
ATOM  45342  CB  HIS L  80     177.106  63.913  11.200  1.00101.24      LS12
ATOM  45343  CG  HIS L  80     178.049  63.240  10.260  1.00101.24      LS12
ATOM  45344  CD2 HIS L  80     179.052  62.359  10.476  1.00101.24      LS12
ATOM  45345  ND1 HIS L  80     178.039  63.485   8.904  1.00101.24      LS12
ATOM  45346  CE1 HIS L  80     178.997  62.785   8.325  1.00101.24      LS12
ATOM  45347  NE2 HIS L  80     179.626  62.093   9.257  1.00101.24      LS12
ATOM  45348  C   HIS L  80     175.982  66.017  11.901  1.00 77.24      LS12
ATOM  45349  O   HIS L  80     174.942  65.399  12.154  1.00 77.24      LS12
ATOM  45350  N   SER L  81     176.242  67.224  12.389  1.00 62.37      LS12
ATOM  45351  CA  SER L  81     175.286  67.872  13.273  1.00 62.37      LS12
ATOM  45352  CB  SER L  81     175.970  68.986  14.082  1.00 53.47      LS12
ATOM  45353  OG  SER L  81     176.898  69.716  13.301  1.00 53.47      LS12
ATOM  45354  C   SER L  81     174.083  68.411  12.499  1.00 62.37      LS12
ATOM  45355  O   SER L  81     174.213  68.922  11.383  1.00 62.37      LS12
ATOM  45356  N   VAL L  82     172.907  68.260  13.098  1.00 47.19      LS12
ATOM  45357  CA  VAL L  82     171.669  68.721  12.497  1.00 47.19      LS12
ATOM  45358  CB  VAL L  82     170.509  67.818  12.882  1.00 42.26      LS12
ATOM  45359  CG1 VAL L  82     169.200  68.563  12.721  1.00 42.26      LS12
ATOM  45360  CG2 VAL L  82     170.511  66.604  11.994  1.00 42.26      LS12
ATOM  45361  C   VAL L  82     171.324  70.156  12.881  1.00 47.19      LS12
ATOM  45362  O   VAL L  82     171.299  70.526  14.056  1.00 47.19      LS12
ATOM  45363  N   VAL L  83     171.013  70.949  11.868  1.00 39.34      LS12
ATOM  45364  CA  VAL L  83     170.711  72.345  12.068  1.00 39.34      LS12
ATOM  45365  CB  VAL L  83     171.879  73.163  11.486  1.00 43.65      LS12
ATOM  45366  CG1 VAL L  83     172.054  72.827  10.021  1.00 43.65      LS12
ATOM  45367  CG2 VAL L  83     171.647  74.628  11.666  1.00 43.65      LS12
ATOM  45368  C   VAL L  83     169.375  72.739  11.413  1.00 39.34      LS12
ATOM  45369  O   VAL L  83     168.769  71.954  10.683  1.00 39.34      LS12
ATOM  45370  N   LEU L  84     168.909  73.951  11.705  1.00 36.67      LS12
ATOM  45371  CA  LEU L  84     167.672  74.464  11.131  1.00 36.67      LS12
ATOM  45372  CB  LEU L  84     166.643  74.715  12.232  1.00 34.17      LS12
ATOM  45373  CG  LEU L  84     165.283  75.186  11.709  1.00 34.17      LS12
ATOM  45374  CD1 LEU L  84     164.561  74.026  11.057  1.00 34.17      LS12
ATOM  45375  CD2 LEU L  84     164.447  75.740  12.834  1.00 34.17      LS12
ATOM  45376  C   LEU L  84     167.946  75.774  10.371  1.00 36.67      LS12
ATOM  45377  O   LEU L  84     168.450  76.748  10.924  1.00 36.67      LS12
ATOM  45378  N   ILE L  85     167.622  75.798   9.092  1.00 34.14      LS12
ATOM  45379  CA  ILE L  85     167.841  76.998   8.313  1.00 34.14      LS12
ATOM  45380  CB  ILE L  85     167.979  76.658   6.845  1.00 46.18      LS12
ATOM  45381  CG2 ILE L  85     168.140  77.916   6.038  1.00 46.18      LS12
ATOM  45382  CG1 ILE L  85     169.180  75.766   6.632  1.00 46.18      LS12
ATOM  45383  CD1 ILE L  85     169.204  75.214   5.246  1.00 46.18      LS12
ATOM  45384  C   ILE L  85     166.662  77.965   8.458  1.00 34.14      LS12
ATOM  45385  O   ILE L  85     165.509  77.542   8.643  1.00 34.14      LS12
ATOM  45386  N   ARG L  86     166.947  79.262   8.357  1.00 46.58      LS12
ATOM  45387  CA  ARG L  86     165.896  80.260   8.465  1.00 46.58      LS12
ATOM  45388  CB  ARG L  86     165.941  80.966   9.814  1.00 59.54      LS12
ATOM  45389  CG  ARG L  86     166.993  82.030   9.933  1.00 59.54      LS12
ATOM  45390  CD  ARG L  86     166.718  82.872  11.158  1.00 59.54      LS12
ATOM  45391  NE  ARG L  86     167.779  83.832  11.407  1.00 59.54      LS12
ATOM  45392  CZ  ARG L  86     168.225  84.688  10.496  1.00 59.54      LS12
ATOM  45393  NH1 ARG L  86     167.696  84.698   9.274  1.00 59.54      LS12
ATOM  45394  NH2 ARG L  86     169.199  85.538  10.806  1.00 59.54      LS12
ATOM  45395  C   ARG L  86     165.971  81.298   7.369  1.00 46.58      LS12
ATOM  45396  O   ARG L  86     165.139  82.202   7.311  1.00 46.58      LS12
ATOM  45397  N   GLY L  87     166.970  81.200   6.507  1.00 18.49      LS12
ATOM  45398  CA  GLY L  87     167.038  82.166   5.428  1.00 18.49      LS12
ATOM  45399  C   GLY L  87     167.366  83.609   5.786  1.00 18.49      LS12
ATOM  45400  O   GLY L  87     166.785  84.214   6.687  1.00 18.49      LS12
ATOM  45401  N   GLY L  88     168.312  84.150   5.025  1.00 26.87      LS12
ATOM  45402  CA  GLY L  88     168.808  85.501   5.196  1.00 26.87      LS12
ATOM  45403  C   GLY L  88     170.228  85.438   4.664  1.00 26.87      LS12
ATOM  45404  O   GLY L  88     171.091  84.834   5.281  1.00 26.87      LS12
ATOM  45405  N   ARG L  89     170.470  86.028   3.500  1.00 40.10      LS12
ATOM  45406  CA  ARG L  89     171.800  86.004   2.909  1.00 40.10      LS12
ATOM  45407  CB  ARG L  89     171.784  86.682   1.535  1.00193.60      LS12
ATOM  45408  CG  ARG L  89     170.766  86.106   0.571  1.00193.60      LS12
ATOM  45409  CD  ARG L  89     171.027  86.558  -0.857  1.00193.60      LS12
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ATOM  45410  NE  ARG L  89     170.116  85.912  -1.799  1.00193.60      LS12
ATOM  45411  CZ  ARG L  89     170.268  85.922  -3.120  1.00193.60      LS12
ATOM  45412  NH1 ARG L  89     171.304  86.546  -3.668  1.00193.60      LS12
ATOM  45413  NH2 ARG L  89     169.386  85.303  -3.893  1.00193.60      LS12
ATOM  45414  C   ARG L  89     172.772  86.730   3.813  1.00 40.10      LS12
ATOM  45415  O   ARG L  89     172.391  87.228   4.861  1.00 40.10      LS12
ATOM  45416  N   VAL L  90     174.037  86.757   3.415  1.00 32.02      LS12
ATOM  45417  CA  VAL L  90     175.066  87.477   4.152  1.00 32.02      LS12
ATOM  45418  CB  VAL L  90     175.973  86.527   4.922  1.00  6.38      LS12
ATOM  45419  CG1 VAL L  90     177.110  87.305   5.559  1.00  6.38      LS12
ATOM  45420  CG2 VAL L  90     175.180  85.822   5.994  1.00  6.38      LS12
ATOM  45421  C   VAL L  90     175.874  88.246   3.106  1.00 32.02      LS12
ATOM  45422  O   VAL L  90     176.621  87.651   2.337  1.00 32.02      LS12
ATOM  45423  N   LYS L  91     175.688  89.563   3.065  1.00 50.83      LS12
ATOM  45424  CA  LYS L  91     176.350  90.435   2.104  1.00 50.83      LS12
ATOM  45425  CB  LYS L  91     176.462  91.843   2.687  1.00120.19      LS12
ATOM  45426  CG  LYS L  91     177.112  92.871   1.775  1.00120.19      LS12
ATOM  45427  CD  LYS L  91     176.086  93.722   1.038  1.00120.19      LS12
ATOM  45428  CE  LYS L  91     176.769  94.898   0.337  1.00120.19      LS12
ATOM  45429  NZ  LYS L  91     175.828  95.788  -0.408  1.00120.19      LS12
ATOM  45430  C   LYS L  91     177.730  89.956   1.652  1.00 50.83      LS12
ATOM  45431  O   LYS L  91     177.935  89.697   0.468  1.00 50.83      LS12
ATOM  45432  N   ASP L  92     178.659  89.820   2.600  1.00 48.40      LS12
ATOM  45433  CA  ASP L  92     180.038  89.410   2.328  1.00 48.40      LS12
ATOM  45434  CB  ASP L  92     180.897  89.675   3.537  1.00 57.80      LS12
ATOM  45435  CG  ASP L  92     180.839  91.090   3.957  1.00 57.80      LS12
ATOM  45436  OD1 ASP L  92     180.474  91.945   3.105  1.00 57.80      LS12
ATOM  45437  OD2 ASP L  92     181.169  91.338   5.133  1.00 57.80      LS12
ATOM  45438  C   ASP L  92     180.336  88.001   1.910  1.00 48.40      LS12
ATOM  45439  O   ASP L  92     181.416  87.741   1.403  1.00 48.40      LS12
ATOM  45440  N   LEU L  93     179.421  87.078   2.146  1.00 57.17      LS12
ATOM  45441  CA  LEU L  93     179.677  85.699   1.784  1.00 57.17      LS12
ATOM  45442  CB  LEU L  93     179.331  84.800   2.943  1.00 39.97      LS12
ATOM  45443  CG  LEU L  93     180.085  85.250   4.175  1.00 39.97      LS12
ATOM  45444  CD1 LEU L  93     179.789  84.278   5.301  1.00 39.97      LS12
ATOM  45445  CD2 LEU L  93     181.590  85.321   3.868  1.00 39.97      LS12
ATOM  45446  C   LEU L  93     178.920  85.244   0.571  1.00 57.17      LS12
ATOM  45447  O   LEU L  93     177.791  84.756   0.680  1.00 57.17      LS12
ATOM  45448  N   PRO L  94     179.529  85.384  -0.610  1.00 29.99      LS12
ATOM  45449  CD  PRO L  94     180.904  85.800  -0.915  1.00 65.94      LS12
ATOM  45450  CA  PRO L  94     178.836  84.955  -1.819  1.00 29.99      LS12
ATOM  45451  CB  PRO L  94     179.920  85.055  -2.884  1.00 65.94      LS12
ATOM  45452  CG  PRO L  94     180.799  86.146  -2.369  1.00 65.94      LS12
ATOM  45453  C   PRO L  94     178.402  83.520  -1.575  1.00 29.99      LS12
ATOM  45454  O   PRO L  94     179.108  82.783  -0.892  1.00 29.99      LS12
ATOM  45455  N   GLY L  95     177.243  83.130  -2.097  1.00 70.31      LS12
ATOM  45456  CA  GLY L  95     176.786  81.763  -1.912  1.00 70.31      LS12
ATOM  45457  C   GLY L  95     175.989  81.506  -0.645  1.00 70.31      LS12
ATOM  45458  O   GLY L  95     175.181  80.576  -0.576  1.00 70.31      LS12
ATOM  45459  N   VAL L  96     176.218  82.307   0.380  1.00 59.90      LS12
ATOM  45460  CA  VAL L  96     175.460  82.114   1.593  1.00 59.90      LS12
ATOM  45461  CB  VAL L  96     176.229  82.622   2.798  1.00 64.18      LS12
ATOM  45462  CG1 VAL L  96     175.495  82.238   4.070  1.00 64.18      LS12
ATOM  45463  CG2 VAL L  96     177.622  82.040   2.789  1.00 64.18      LS12
ATOM  45464  C   VAL L  96     174.171  82.908   1.431  1.00 59.90      LS12
ATOM  45465  O   VAL L  96     174.215  84.112   1.165  1.00 59.90      LS12
ATOM  45466  N   ARG L  97     173.028  82.235   1.562  1.00 48.77      LS12
ATOM  45467  CA  ARG L  97     171.732  82.899   1.427  1.00 48.77      LS12
ATOM  45468  CB  ARG L  97     170.994  82.434   0.178  1.00 75.74      LS12
ATOM  45469  CG  ARG L  97     171.603  82.777  -1.147  1.00 75.74      LS12
ATOM  45470  CD  ARG L  97     170.554  82.511  -2.210  1.00 75.74      LS12
ATOM  45471  NE  ARG L  97     171.126  82.205  -3.512  1.00 75.74      LS12
ATOM  45472  CZ  ARG L  97     170.404  81.804  -4.550  1.00 75.74      LS12
ATOM  45473  NH1 ARG L  97     169.091  81.668  -4.424  1.00 75.74      LS12
ATOM  45474  NH2 ARG L  97     170.992  81.531  -5.706  1.00 75.74      LS12
ATOM  45475  C   ARG L  97     170.791  82.655   2.594  1.00 48.77      LS12
ATOM  45476  O   ARG L  97     169.676  83.171   2.599  1.00 48.77      LS12
ATOM  45477  N   TYR L  98     171.212  81.858   3.566  1.00 31.95      LS12
ATOM  45478  CA  TYR L  98     170.342  81.556   4.688  1.00 31.95      LS12
ATOM  45479  CB  TYR L  98     169.701  80.182   4.498  1.00 41.13      LS12
ATOM  45480  CG  TYR L  98     169.278  79.848   3.078  1.00 41.13      LS12
ATOM  45481  CD1 TYR L  98     170.201  79.812   2.042  1.00 41.13      LS12
ATOM  45482  CE1 TYR L  98     169.812  79.510   0.733  1.00 41.13      LS12
ATOM  45483  CD2 TYR L  98     167.950  79.567   2.776  1.00 41.13      LS12
ATOM  45484  CE2 TYR L  98     167.547  79.258   1.476  1.00 41.13      LS12
ATOM  45485  CZ  TYR L  98     168.480  79.230   0.452  1.00 41.13      LS12
ATOM  45486  OH  TYR L  98     168.091  78.906  -0.843  1.00 41.13      LS12
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ATOM  45487  C   TYR L  98     171.178  81.536   5.944  1.00 31.95      LS12
ATOM  45488  O   TYR L  98     172.369  81.241   5.878  1.00 31.95      LS12
ATOM  45489  N   HIS L  99     170.570  81.856   7.083  1.00 35.92      LS12
ATOM  45490  CA  HIS L  99     171.283  81.842   8.362  1.00 35.92      LS12
ATOM  45491  CB  HIS L  99     170.879  83.021   9.245  1.00 39.16      LS12
ATOM  45492  CG  HIS L  99     171.663  84.274   9.006  1.00 39.16      LS12
ATOM  45493  CD2 HIS L  99     172.259  85.127   9.873  1.00 39.16      LS12
ATOM  45494  ND1 HIS L  99     171.828  84.827   7.755  1.00 39.16      LS12
ATOM  45495  CE1 HIS L  99     172.488  85.968   7.860  1.00 39.16      LS12
ATOM  45496  NE2 HIS L  99     172.761  86.175   9.135  1.00 39.16      LS12
ATOM  45497  C   HIS L  99     170.890  80.574   9.090  1.00 35.92      LS12
ATOM  45498  O   HIS L  99     169.859  79.969   8.785  1.00 35.92      LS12
ATOM  45499  N   ILE L 100     171.710  80.165  10.050  1.00 47.44      LS12
ATOM  45500  CA  ILE L 100     171.399  78.983  10.846  1.00 47.44      LS12
ATOM  45501  CB  ILE L 100     172.653  78.177  11.228  1.00 42.82      LS12
ATOM  45502  CG2 ILE L 100     172.397  77.417  12.507  1.00 42.82      LS12
ATOM  45503  CG1 ILE L 100     173.043  77.237  10.083  1.00 42.82      LS12
ATOM  45504  CD1 ILE L 100     174.255  76.380  10.365  1.00 42.82      LS12
ATOM  45505  C   ILE L 100     170.757  79.478  12.122  1.00 47.44      LS12
ATOM  45506  O   ILE L 100     171.082  80.554  12.622  1.00 47.44      LS12
ATOM  45507  N   VAL L 101     169.832  78.699  12.648  1.00 39.66      LS12
ATOM  45508  CA  VAL L 101     169.167  79.088  13.873  1.00 39.66      LS12
ATOM  45509  CB  VAL L 101     167.742  78.575  13.923  1.00 40.09      LS12
ATOM  45510  CG1 VAL L 101     167.129  78.937  15.250  1.00 40.09      LS12
ATOM  45511  CG2 VAL L 101     166.944  79.137  12.770  1.00 40.09      LS12
ATOM  45512  C   VAL L 101     169.904  78.457  15.023  1.00 39.66      LS12
ATOM  45513  O   VAL L 101     169.996  77.232  15.108  1.00 39.66      LS12
ATOM  45514  N   ARG L 102     170.436  79.278  15.910  1.00 27.20      LS12
ATOM  45515  CA  ARG L 102     171.131  78.717  17.038  1.00 27.20      LS12
ATOM  45516  CB  ARG L 102     172.219  79.661  17.502  1.00 41.95      LS12
ATOM  45517  CG  ARG L 102     173.159  79.956  16.377  1.00 41.95      LS12
ATOM  45518  CD  ARG L 102     174.486  80.417  16.872  1.00 41.95      LS12
ATOM  45519  NE  ARG L 102     175.087  79.431  17.755  1.00 41.95      LS12
ATOM  45520  CZ  ARG L 102     176.315  79.535  18.239  1.00 41.95      LS12
ATOM  45521  NH1 ARG L 102     177.060  80.581  17.919  1.00 41.95      LS12
ATOM  45522  NH2 ARG L 102     176.797  78.595  19.035  1.00 41.95      LS12
ATOM  45523  C   ARG L 102     170.103  78.479  18.117  1.00 27.20      LS12
ATOM  45524  O   ARG L 102     169.211  79.296  18.319  1.00 27.20      LS12
ATOM  45525  N   GLY L 103     170.217  77.339  18.786  1.00 78.22      LS12
ATOM  45526  CA  GLY L 103     169.285  77.008  19.842  1.00 78.22      LS12
ATOM  45527  C   GLY L 103     168.299  75.950  19.403  1.00 78.22      LS12
ATOM  45528  O   GLY L 103     167.417  75.554  20.169  1.00 78.22      LS12
ATOM  45529  N   VAL L 104     168.442  75.498  18.161  1.00 64.80      LS12
ATOM  45530  CA  VAL L 104     167.566  74.468  17.611  1.00 64.80      LS12
ATOM  45531  CB  VAL L 104     166.678  75.019  16.475  1.00 60.33      LS12
ATOM  45532  CG1 VAL L 104     165.997  73.875  15.756  1.00 60.33      LS12
ATOM  45533  CG2 VAL L 104     165.633  75.969  17.038  1.00 60.33      LS12
ATOM  45534  C   VAL L 104     168.416  73.342  17.054  1.00 64.80      LS12
ATOM  45535  O   VAL L 104     169.266  73.570  16.193  1.00 64.80      LS12
ATOM  45536  N   TYR L 105     168.176  72.131  17.546  1.00 63.95      LS12
ATOM  45537  CA  TYR L 105     168.922  70.954  17.114  1.00 63.95      LS12
ATOM  45538  CB  TYR L 105     168.900  70.839  15.582  1.00 48.69      LS12
ATOM  45539  CG  TYR L 105     167.502  70.718  15.020  1.00 48.69      LS12
ATOM  45540  CD1 TYR L 105     167.145  71.353  13.832  1.00 48.69      LS12
ATOM  45541  CE1 TYR L 105     165.847  71.272  13.333  1.00 48.69      LS12
ATOM  45542  CD2 TYR L 105     166.524  69.990  15.694  1.00 48.69      LS12
ATOM  45543  CE2 TYR L 105     165.227  69.895  15.209  1.00 48.69      LS12
ATOM  45544  CZ  TYR L 105     164.890  70.538  14.030  1.00 48.69      LS12
ATOM  45545  OH  TYR L 105     163.596  70.442  13.553  1.00 48.69      LS12
ATOM  45546  C   TYR L 105     170.355  71.005  17.633  1.00 63.95      LS12
ATOM  45547  O   TYR L 105     170.639  71.694  18.615  1.00 63.95      LS12
ATOM  45548  N   ASP L 106     171.251  70.288  16.961  1.00 38.41      LS12
ATOM  45549  CA  ASP L 106     172.651  70.197  17.367  1.00 38.41      LS12
ATOM  45550  CB  ASP L 106     173.386  69.255  16.418  1.00 86.33      LS12
ATOM  45551  CG  ASP L 106     172.820  67.852  16.450  1.00 86.33      LS12
ATOM  45552  OD1 ASP L 106     173.174  67.040  15.573  1.00 86.33      LS12
ATOM  45553  OD2 ASP L 106     172.019  67.558  17.360  1.00 86.33      LS12
ATOM  45554  C   ASP L 106     173.427  71.505  17.516  1.00 38.41      LS12
ATOM  45555  O   ASP L 106     174.573  71.505  17.983  1.00 38.41      LS12
ATOM  45556  N   ALA L 107     172.815  72.620  17.134  1.00 55.54      LS12
ATOM  45557  CA  ALA L 107     173.489  73.904  17.268  1.00 55.54      LS12
ATOM  45558  CB  ALA L 107     173.110  74.823  16.124  1.00 57.85      LS12
ATOM  45559  C   ALA L 107     173.126  74.547  18.605  1.00 55.54      LS12
ATOM  45560  O   ALA L 107     172.084  75.197  18.738  1.00 55.54      LS12
ATOM  45561  N   ALA L 108     173.984  74.343  19.601  1.00 21.94      LS12
ATOM  45562  CA  ALA L 108     173.764  74.918  20.918  1.00 21.94      LS12
ATOM  45563  CB  ALA L 108     174.938  74.601  21.834  1.00158.51      LS12
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ATOM  45564  C   ALA L 108     173.615  76.423  20.754  1.00 21.94      LS12
ATOM  45565  O   ALA L 108     173.947  76.978  19.707  1.00 21.94      LS12
ATOM  45566  N   GLY L 109     173.107  77.080  21.791  1.00 61.70      LS12
ATOM  45567  CA  GLY L 109     172.922  78.516  21.725  1.00 61.70      LS12
ATOM  45568  C   GLY L 109     174.254  79.212  21.630  1.00 61.70      LS12
ATOM  45569  O   GLY L 109     175.117  78.820  20.850  1.00 61.70      LS12
ATOM  45570  N   VAL L 110     174.428  80.260  22.415  1.00 35.56      LS12
ATOM  45571  CA  VAL L 110     175.691  80.966  22.398  1.00 35.56      LS12
ATOM  45572  CB  VAL L 110     175.629  82.257  21.567  1.00 16.16      LS12
ATOM  45573  CG1 VAL L 110     177.036  82.711  21.238  1.00 16.16      LS12
ATOM  45574  CG2 VAL L 110     174.864  82.019  20.294  1.00 16.16      LS12
ATOM  45575  C   VAL L 110     176.035  81.291  23.836  1.00 35.56      LS12
ATOM  45576  O   VAL L 110     175.257  81.915  24.552  1.00 35.56      LS12
ATOM  45577  N   LYS L 111     177.213  80.850  24.252  1.00 89.95      LS12
ATOM  45578  CA  LYS L 111     177.659  81.046  25.616  1.00 89.95      LS12
ATOM  45579  CB  LYS L 111     178.852  80.132  25.902  1.00184.24      LS12
ATOM  45580  CG  LYS L 111     178.548  78.652  25.694  1.00184.24      LS12
ATOM  45581  CD  LYS L 111     179.751  77.780  26.013  1.00184.24      LS12
ATOM  45582  CE  LYS L 111     179.443  76.308  25.788  1.00184.24      LS12
ATOM  45583  NZ  LYS L 111     180.614  75.443  26.109  1.00184.24      LS12
ATOM  45584  C   LYS L 111     178.006  82.480  25.969  1.00 89.95      LS12
ATOM  45585  O   LYS L 111     178.559  83.221  25.158  1.00 89.95      LS12
ATOM  45586  N   ASP L 112     177.657  82.854  27.196  1.00 71.77      LS12
ATOM  45587  CA  ASP L 112     177.929  84.178  27.737  1.00 71.77      LS12
ATOM  45588  CB  ASP L 112     179.446  84.407  27.821  1.00100.64      LS12
ATOM  45589  CG  ASP L 112     180.139  83.434  28.782  1.00100.64      LS12
ATOM  45590  OD1 ASP L 112     180.543  82.332  28.350  1.00100.64      LS12
ATOM  45591  OD2 ASP L 112     180.273  83.769  29.979  1.00100.64      LS12
ATOM  45592  C   ASP L 112     177.257  85.316  26.974  1.00 71.77      LS12
ATOM  45593  O   ASP L 112     177.412  86.486  27.317  1.00 71.77      LS12
ATOM  45594  N   ARG L 113     176.511  84.981  25.935  1.00 65.25      LS12
ATOM  45595  CA  ARG L 113     175.812  86.006  25.177  1.00 65.25      LS12
ATOM  45596  CB  ARG L 113     175.138  85.384  23.957  1.00 88.88      LS12
ATOM  45597  CG  ARG L 113     175.397  86.117  22.661  1.00 88.88      LS12
ATOM  45598  CD  ARG L 113     174.600  87.389  22.573  1.00 88.88      LS12
ATOM  45599  NE  ARG L 113     174.977  88.164  21.398  1.00 88.88      LS12
ATOM  45600  CZ  ARG L 113     174.426  89.326  21.082  1.00 88.88      LS12
ATOM  45601  NH1 ARG L 113     173.474  89.828  21.859  1.00 88.88      LS12
ATOM  45602  NH2 ARG L 113     174.830  89.990  20.009  1.00 88.88      LS12
ATOM  45603  C   ARG L 113     174.765  86.504  26.154  1.00 65.25      LS12
ATOM  45604  O   ARG L 113     173.880  85.748  26.550  1.00 65.25      LS12
ATOM  45605  N   LYS L 114     174.860  87.764  26.559  1.00 52.47      LS12
ATOM  45606  CA  LYS L 114     173.902  88.277  27.524  1.00 52.47      LS12
ATOM  45607  CB  LYS L 114     174.637  88.747  28.775  1.00105.27      LS12
ATOM  45608  CG  LYS L 114     175.213  87.608  29.612  1.00105.27      LS12
ATOM  45609  CD  LYS L 114     176.050  88.144  30.757  1.00105.27      LS12
ATOM  45610  CE  LYS L 114     175.252  89.120  31.602  1.00105.27      LS12
ATOM  45611  NZ  LYS L 114     176.124  89.961  32.461  1.00105.27      LS12
ATOM  45612  C   LYS L 114     172.975  89.373  27.054  1.00 52.47      LS12
ATOM  45613  O   LYS L 114     172.413  90.073  27.883  1.00 52.47      LS12
ATOM  45614  N   LYS L 115     172.798  89.522  25.742  1.00101.92      LS12
ATOM  45615  CA  LYS L 115     171.915  90.563  25.226  1.00101.92      LS12
ATOM  45616  CB  LYS L 115     172.705  91.647  24.530  1.00 28.59      LS12
ATOM  45617  CG  LYS L 115     173.505  92.478  25.475  1.00 28.59      LS12
ATOM  45618  CD  LYS L 115     173.749  93.873  24.917  1.00 28.59      LS12
ATOM  45619  CE  LYS L 115     174.926  94.589  25.612  1.00 28.59      LS12
ATOM  45620  NZ  LYS L 115     174.711  94.863  27.065  1.00 28.59      LS12
ATOM  45621  C   LYS L 115     170.816  90.132  24.288  1.00101.92      LS12
ATOM  45622  O   LYS L 115     169.798  89.594  24.721  1.00101.92      LS12
ATOM  45623  N   SER L 116     171.010  90.405  23.000  1.00 31.25      LS12
ATOM  45624  CA  SER L 116     170.010  90.060  21.985  1.00 31.25      LS12
ATOM  45625  CB  SER L 116     170.463  90.563  20.604  1.00 68.17      LS12
ATOM  45626  OG  SER L 116     170.679  91.967  20.580  1.00 68.17      LS12
ATOM  45627  C   SER L 116     169.834  88.541  21.952  1.00 31.25      LS12
ATOM  45628  O   SER L 116     169.966  87.918  20.904  1.00 31.25      LS12
ATOM  45629  N   ARG L 117     169.498  87.967  23.104  1.00 20.90      LS12
ATOM  45630  CA  ARG L 117     169.364  86.530  23.262  1.00 20.90      LS12
ATOM  45631  CB  ARG L 117     169.078  86.201  24.726  1.00 52.29      LS12
ATOM  45632  CG  ARG L 117     170.014  86.897  25.717  1.00 52.29      LS12
ATOM  45633  CD  ARG L 117     170.187  86.071  26.979  1.00 52.29      LS12
ATOM  45634  NE  ARG L 117     168.939  85.415  27.361  1.00 52.29      LS12
ATOM  45635  CZ  ARG L 117     167.891  86.048  27.870  1.00 52.29      LS12
ATOM  45636  NH1 ARG L 117     167.939  87.360  28.074  1.00 52.29      LS12
ATOM  45637  NH2 ARG L 117     166.785  85.375  28.143  1.00 52.29      LS12
ATOM  45638  C   ARG L 117     168.373  85.805  22.362  1.00 20.90      LS12
ATOM  45639  O   ARG L 117     168.656  84.681  21.953  1.00 20.90      LS12
ATOM  45640  N   SER L 118     167.228  86.420  22.054  1.00 31.70      LS12
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ATOM  45641  CA  SER L 118     166.237  85.793  21.181  1.00 31.70      LS12
ATOM  45642  CB  SER L 118     165.184  86.797  20.720  1.00 94.33      LS12
ATOM  45643  OG  SER L 118     164.361  87.194  21.800  1.00 94.33      LS12
ATOM  45644  C   SER L 118     166.996  85.267  19.983  1.00 31.70      LS12
ATOM  45645  O   SER L 118     166.885  84.089  19.638  1.00 31.70      LS12
ATOM  45646  N   LYS L 119     167.754  86.135  19.324  1.00 39.86      LS12
ATOM  45647  CA  LYS L 119     168.570  85.657  18.217  1.00 39.86      LS12
ATOM  45648  CB  LYS L 119     168.999  86.807  17.311  1.00 44.16      LS12
ATOM  45649  CG  LYS L 119     167.866  87.685  16.788  1.00 44.16      LS12
ATOM  45650  CD  LYS L 119     167.625  88.874  17.705  1.00 44.16      LS12
ATOM  45651  CE  LYS L 119     166.806  90.011  17.039  1.00 44.16      LS12
ATOM  45652  NZ  LYS L 119     167.513  90.854  16.010  1.00 44.16      LS12
ATOM  45653  C   LYS L 119     169.765  85.114  18.996  1.00 39.86      LS12
ATOM  45654  O   LYS L 119     170.185  85.744  19.953  1.00 39.86      LS12
ATOM  45655  N   TYR L 120     170.300  83.959  18.615  1.00 55.63      LS12
ATOM  45656  CA  TYR L 120     171.426  83.329  19.338  1.00 55.63      LS12
ATOM  45657  CB  TYR L 120     172.381  84.363  19.962  1.00 27.71      LS12
ATOM  45658  CG  TYR L 120     172.858  85.418  19.003  1.00 27.71      LS12
ATOM  45659  CD1 TYR L 120     172.999  86.735  19.412  1.00 27.71      LS12
ATOM  45660  CE1 TYR L 120     173.336  87.729  18.514  1.00 27.71      LS12
ATOM  45661  CD2 TYR L 120     173.084  85.112  17.673  1.00 27.71      LS12
ATOM  45662  CE2 TYR L 120     173.426  86.090  16.753  1.00 27.71      LS12
ATOM  45663  CZ  TYR L 120     173.546  87.408  17.168  1.00 27.71      LS12
ATOM  45664  OH  TYR L 120     173.818  88.400  16.222  1.00 27.71      LS12
ATOM  45665  C   TYR L 120     170.844  82.472  20.454  1.00 55.63      LS12
ATOM  45666  O   TYR L 120     171.544  82.065  21.369  1.00 55.63      LS12
ATOM  45667  N   GLY L 121     169.546  82.220  20.350  1.00 71.14      LS12
ATOM  45668  CA  GLY L 121     168.817  81.420  21.316  1.00 71.14      LS12
ATOM  45669  C   GLY L 121     169.475  80.984  22.612  1.00 71.14      LS12
ATOM  45670  O   GLY L 121     169.747  79.802  22.792  1.00 71.14      LS12
ATOM  45671  N   THR L 122     169.721  81.917  23.524  1.00 53.69      LS12
ATOM  45672  CA  THR L 122     170.318  81.573  24.812  1.00 53.69      LS12
ATOM  45673  CB  THR L 122     171.584  82.383  25.062  1.00 45.63      LS12
ATOM  45674  OG1 THR L 122     171.251  83.767  25.172  1.00 45.63      LS12
ATOM  45675  CG2 THR L 122     172.548  82.214  23.914  1.00 45.63      LS12
ATOM  45676  C   THR L 122     169.318  81.854  25.940  1.00 53.69      LS12
ATOM  45677  O   THR L 122     168.764  82.954  26.034  1.00 53.69      LS12
ATOM  45678  N   LYS L 123     169.078  80.856  26.788  1.00 60.26      LS12
ATOM  45679  CA  LYS L 123     168.137  81.002  27.898  1.00 60.26      LS12
ATOM  45680  CB  LYS L 123     168.127  79.738  28.757  1.00149.75      LS12
ATOM  45681  CG  LYS L 123     167.908  78.442  27.995  1.00149.75      LS12
ATOM  45682  CD  LYS L 123     166.484  78.297  27.490  1.00149.75      LS12
ATOM  45683  CE  LYS L 123     166.290  76.935  26.835  1.00149.75      LS12
ATOM  45684  NZ  LYS L 123     164.901  76.726  26.350  1.00149.75      LS12
ATOM  45685  C   LYS L 123     168.524  82.184  28.778  1.00 60.26      LS12
ATOM  45686  O   LYS L 123     169.685  82.606  28.803  1.00 60.26      LS12
ATOM  45687  N   LYS L 124     167.548  82.713  29.506  1.00 78.37      LS12
ATOM  45688  CA  LYS L 124     167.806  83.835  30.396  1.00 78.37      LS12
ATOM  45689  CB  LYS L 124     166.528  84.294  31.076  1.00 61.22      LS12
ATOM  45690  CG  LYS L 124     166.793  85.201  32.261  1.00 61.22      LS12
ATOM  45691  CD  LYS L 124     167.213  86.589  31.823  1.00 61.22      LS12
ATOM  45692  CE  LYS L 124     166.006  87.392  31.361  1.00 61.22      LS12
ATOM  45693  NZ  LYS L 124     164.999  87.592  32.450  1.00 61.22      LS12
ATOM  45694  C   LYS L 124     168.801  83.438  31.470  1.00 78.37      LS12
ATOM  45695  O   LYS L 124     168.563  82.503  32.238  1.00 78.37      LS12
ATOM  45696  N   PRO L 125     169.919  84.164  31.561  1.00 60.81      LS12
ATOM  45697  CD  PRO L 125     170.173  85.493  30.982  1.00 53.96      LS12
ATOM  45698  CA  PRO L 125     170.927  83.844  32.568  1.00 60.81      LS12
ATOM  45699  CB  PRO L 125     171.994  84.893  32.316  1.00 53.96      LS12
ATOM  45700  CG  PRO L 125     171.171  86.085  31.963  1.00 53.96      LS12
ATOM  45701  C   PRO L 125     170.328  83.967  33.956  1.00 60.81      LS12
ATOM  45702  O   PRO L 125     169.835  85.030  34.324  1.00 60.81      LS12
ATOM  45703  N   LYS L 126     170.358  82.874  34.712  1.00 99.58      LS12
ATOM  45704  CA  LYS L 126     169.835  82.851  36.078  1.00 99.58      LS12
ATOM  45705  CB  LYS L 126     170.008  81.451  36.678  1.00201.30      LS12
ATOM  45706  CG  LYS L 126     171.035  80.577  35.953  1.00201.30      LS12
ATOM  45707  CD  LYS L 126     172.416  81.223  35.913  1.00201.30      LS12
ATOM  45708  CE  LYS L 126     173.375  80.431  35.037  1.00201.30      LS12
ATOM  45709  NZ  LYS L 126     174.701  81.098  34.932  1.00201.30      LS12
ATOM  45710  C   LYS L 126     170.565  83.883  36.935  1.00 99.58      LS12
ATOM  45711  O   LYS L 126     171.505  83.556  37.658  1.00 99.58      LS12
ATOM  45712  N   GLU L 127     170.119  85.132  36.845  1.00111.58      LS12
ATOM  45713  CA  GLU L 127     170.725  86.231  37.585  1.00111.58      LS12
ATOM  45714  CB  GLU L 127     169.947  87.529  37.342  1.00201.30      LS12
ATOM  45715  CG  GLU L 127     168.539  87.542  37.922  1.00201.30      LS12
ATOM  45716  CD  GLU L 127     167.843  88.876  37.723  1.00201.30      LS12
ATOM  45717  OE1 GLU L 127     168.393  89.907  38.165  1.00201.30      LS12
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ATOM  45718  OE2 GLU L 127     166.745  88.895  37.126  1.00201.30      LS12
ATOM  45719  C   GLU L 127     170.806  85.966  39.081  1.00111.58      LS12
ATOM  45720  O   GLU L 127     169.884  85.404  39.683  1.00111.58      LS12
ATOM  45721  N   ALA L 128     171.924  86.382  39.667  1.00181.72      LS12
ATOM  45722  CA  ALA L 128     172.167  86.221  41.093  1.00181.72      LS12
ATOM  45723  CB  ALA L 128     173.197  85.119  41.325  1.00167.07      LS12
ATOM  45724  C   ALA L 128     172.669  87.544  41.667  1.00181.72      LS12
ATOM  45725  O   ALA L 128     172.938  88.464  40.866  1.00181.72      LS12
ATOM  45726  OXT ALA L 128     172.792  87.646  42.906  1.00167.07      LS12
TER   45726       ALA L 128                                             LS12
ATOM  45727  CB  ALA M   2     280.575 115.162  -8.324  1.00 72.25      MS13
ATOM  45728  C   ALA M   2     278.477 113.991  -7.646  1.00 52.40      MS13
ATOM  45729  O   ALA M   2     277.521 114.321  -6.957  1.00 52.40      MS13
ATOM  45730  N   ALA M   2     278.346 116.266  -8.531  1.00 52.40      MS13
ATOM  45731  CA  ALA M   2     279.080 114.968  -8.631  1.00 52.40      MS13
ATOM  45732  N   ARG M   3     279.031 112.785  -7.586  1.00 63.70      MS13
ATOM  45733  CA  ARG M   3     278.525 111.784  -6.665  1.00 63.70      MS13
ATOM  45734  CB  ARG M   3     279.243 110.448  -6.864  1.00201.30      MS13
ATOM  45735  CG  ARG M   3     279.127 109.932  -8.286  1.00201.30      MS13
ATOM  45736  CD  ARG M   3     279.511 108.472  -8.417  1.00201.30      MS13
ATOM  45737  NE  ARG M   3     279.515 108.065  -9.819  1.00201.30      MS13
ATOM  45738  CZ  ARG M   3     279.728 106.823 -10.243  1.00201.30      MS13
ATOM  45739  NH1 ARG M   3     279.952 105.851  -9.369  1.00201.30      MS13
ATOM  45740  NH2 ARG M   3     279.729 106.557 -11.543  1.00201.30      MS13
ATOM  45741  C   ARG M   3     278.762 112.318  -5.272  1.00 63.70      MS13
ATOM  45742  O   ARG M   3     279.880 112.677  -4.918  1.00 63.70      MS13
ATOM  45743  N   ILE M   4     277.694 112.393  -4.488  1.00 91.85      MS13
ATOM  45744  CA  ILE M   4     277.796 112.901  -3.137  1.00 91.85      MS13
ATOM  45745  CB  ILE M   4     276.981 114.185  -3.000  1.00 42.06      MS13
ATOM  45746  CG2 ILE M   4     276.625 114.445  -1.549  1.00 42.06      MS13
ATOM  45747  CG1 ILE M   4     277.796 115.332  -3.603  1.00 42.06      MS13
ATOM  45748  CD1 ILE M   4     277.255 116.732  -3.328  1.00 42.06      MS13
ATOM  45749  C   ILE M   4     277.397 111.883  -2.083  1.00 91.85      MS13
ATOM  45750  O   ILE M   4     278.263 111.270  -1.461  1.00 91.85      MS13
ATOM  45751  N   ALA M   5     276.103 111.689  -1.873  1.00 37.57      MS13
ATOM  45752  CA  ALA M   5     275.681 110.715  -0.873  1.00 37.57      MS13
ATOM  45753  CB  ALA M   5     274.263 111.003  -0.412  1.00 81.24      MS13
ATOM  45754  C   ALA M   5     275.761 109.342  -1.517  1.00 37.57      MS13
ATOM  45755  O   ALA M   5     276.050 109.237  -2.715  1.00 37.57      MS13
ATOM  45756  N   GLY M   6     275.509 108.303  -0.724  1.00156.16      MS13
ATOM  45757  CA  GLY M   6     275.552 106.942  -1.231  1.00156.16      MS13
ATOM  45758  C   GLY M   6     275.212 106.857  -2.706  1.00156.16      MS13
ATOM  45759  O   GLY M   6     274.041 106.830  -3.082  1.00156.16      MS13
ATOM  45760  N   VAL M   7     276.248 106.824  -3.539  1.00188.76      MS13
ATOM  45761  CA  VAL M   7     276.104 106.749  -4.989  1.00188.76      MS13
ATOM  45762  CB  VAL M   7     275.798 105.294  -5.453  1.00143.54      MS13
ATOM  45763  CG1 VAL M   7     276.898 104.358  -4.975  1.00143.54      MS13
ATOM  45764  CG2 VAL M   7     274.446 104.832  -4.929  1.00143.54      MS13
ATOM  45765  C   VAL M   7     275.038 107.694  -5.545  1.00188.76      MS13
ATOM  45766  O   VAL M   7     274.294 107.334  -6.456  1.00188.76      MS13
ATOM  45767  N   GLU M   8     274.969 108.904  -4.998  1.00 72.12      MS13
ATOM  45768  CA  GLU M   8     273.997 109.891  -5.459  1.00 72.12      MS13
ATOM  45769  CB  GLU M   8     273.280 110.528  -4.270  1.00201.30      MS13
ATOM  45770  CG  GLU M   8     272.380 109.560  -3.522  1.00201.30      MS13
ATOM  45771  CD  GLU M   8     271.251 109.020  -4.386  1.00201.30      MS13
ATOM  45772  OE1 GLU M   8     270.354 109.809  -4.755  1.00201.30      MS13
ATOM  45773  OE2 GLU M   8     271.262 107.809  -4.700  1.00201.30      MS13
ATOM  45774  C   GLU M   8     274.702 110.961  -6.282  1.00 72.12      MS13
ATOM  45775  O   GLU M   8     275.702 111.520  -5.840  1.00 72.12      MS13
ATOM  45776  N   ILE M   9     274.172 111.251  -7.469  1.00 83.88      MS13
ATOM  45777  CA  ILE M   9     274.780 112.231  -8.366  1.00 83.88      MS13
ATOM  45778  CB  ILE M   9     275.583 111.539  -9.495  1.00141.12      MS13
ATOM  45779  CG2 ILE M   9     276.950 112.174  -9.630  1.00141.12      MS13
ATOM  45780  CG1 ILE M   9     275.692 110.036  -9.228  1.00141.12      MS13
ATOM  45781  CD1 ILE M   9     274.394 109.271  -9.455  1.00141.12      MS13
ATOM  45782  C   ILE M   9     273.793 113.167  -9.061  1.00 83.88      MS13
ATOM  45783  O   ILE M   9     273.156 112.781 -10.040  1.00 83.88      MS13
ATOM  45784  N   PRO M  10     273.657 114.411  -8.572  1.00 81.59      MS13
ATOM  45785  CD  PRO M  10     274.144 114.846  -7.248  1.00 77.88      MS13
ATOM  45786  CA  PRO M  10     272.748 115.413  -9.156  1.00 81.59      MS13
ATOM  45787  CB  PRO M  10     272.373 116.253  -7.949  1.00 77.88      MS13
ATOM  45788  CG  PRO M  10     273.686 116.289  -7.179  1.00 77.88      MS13
ATOM  45789  C   PRO M  10     273.512 116.234 -10.196  1.00 81.59      MS13
ATOM  45790  O   PRO M  10     274.707 116.456 -10.017  1.00 81.59      MS13
ATOM  45791  N   ARG M  11     272.872 116.699 -11.266  1.00 89.27      MS13
ATOM  45792  CA  ARG M  11     273.655 117.477 -12.232  1.00 89.27      MS13
ATOM  45793  CB  ARG M  11     274.582 116.552 -13.028  1.00149.94      MS13
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ATOM  45794  CG  ARG M  11     275.354 117.282 -14.119  1.00149.94      MS13
ATOM  45795  CD  ARG M  11     276.561 116.512 -14.613  1.00149.94      MS13
ATOM  45796  NE  ARG M  11     277.356 117.328 -15.529  1.00149.94      MS13
ATOM  45797  CZ  ARG M  11     278.577 117.016 -15.950  1.00149.94      MS13
ATOM  45798  NH1 ARG M  11     279.159 115.896 -15.539  1.00149.94      MS13
ATOM  45799  NH2 ARG M  11     279.221 117.828 -16.780  1.00149.94      MS13
ATOM  45800  C   ARG M  11     272.958 118.403 -13.217  1.00 89.27      MS13
ATOM  45801  O   ARG M  11     271.805 118.194 -13.583  1.00 89.27      MS13
ATOM  45802  N   ASN M  12     273.697 119.427 -13.645  1.00 35.64      MS13
ATOM  45803  CA  ASN M  12     273.230 120.422 -14.609  1.00 35.64      MS13
ATOM  45804  CB  ASN M  12     272.742 119.715 -15.875  1.00 99.75      MS13
ATOM  45805  CG  ASN M  12     273.126 120.459 -17.137  1.00 99.75      MS13
ATOM  45806  OD1 ASN M  12     272.684 121.586 -17.370  1.00 99.75      MS13
ATOM  45807  ND2 ASN M  12     273.964 119.833 -17.957  1.00 99.75      MS13
ATOM  45808  C   ASN M  12     272.150 121.411 -14.119  1.00 35.64      MS13
ATOM  45809  O   ASN M  12     271.640 122.219 -14.897  1.00 35.64      MS13
ATOM  45810  N   LYS M  13     271.802 121.355 -12.837  1.00 62.38      MS13
ATOM  45811  CA  LYS M  13     270.802 122.264 -12.284  1.00 62.38      MS13
ATOM  45812  CB  LYS M  13     269.563 121.482 -11.837  1.00187.61      MS13
ATOM  45813  CG  LYS M  13     269.029 120.505 -12.879  1.00187.61      MS13
ATOM  45814  CD  LYS M  13     267.846 119.695 -12.353  1.00187.61      MS13
ATOM  45815  CE  LYS M  13     266.599 120.554 -12.163  1.00187.61      MS13
ATOM  45816  NZ  LYS M  13     266.044 121.066 -13.450  1.00187.61      MS13
ATOM  45817  C   LYS M  13     271.446 122.928 -11.077  1.00 62.38      MS13
ATOM  45818  O   LYS M  13     272.405 122.392 -10.528  1.00 62.38      MS13
ATOM  45819  N   ARG M  14     270.942 124.089 -10.667  1.00 45.04      MS13
ATOM  45820  CA  ARG M  14     271.488 124.779  -9.498  1.00 45.04      MS13
ATOM  45821  CB  ARG M  14     270.529 125.890  -9.080  1.00 48.56      MS13
ATOM  45822  CG  ARG M  14     270.421 126.947 -10.146  1.00 48.56      MS13
ATOM  45823  CD  ARG M  14     269.189 127.830 -10.019  1.00 48.56      MS13
ATOM  45824  NE  ARG M  14     269.351 128.991  -9.140  1.00 48.56      MS13
ATOM  45825  CZ  ARG M  14     269.378 128.933  -7.811  1.00 48.56      MS13
ATOM  45826  NH1 ARG M  14     269.263 127.767  -7.188  1.00 48.56      MS13
ATOM  45827  NH2 ARG M  14     269.491 130.049  -7.101  1.00 48.56      MS13
ATOM  45828  C   ARG M  14     271.726 123.784  -8.345  1.00 45.04      MS13
ATOM  45829  O   ARG M  14     270.852 122.978  -8.009  1.00 45.04      MS13
ATOM  45830  N   VAL M  15     272.918 123.841  -7.753  1.00 61.38      MS13
ATOM  45831  CA  VAL M  15     273.309 122.937  -6.672  1.00 61.38      MS13
ATOM  45832  CB  VAL M  15     274.607 123.388  -6.026  1.00 49.10      MS13
ATOM  45833  CG1 VAL M  15     275.130 122.299  -5.103  1.00 49.10      MS13
ATOM  45834  CG2 VAL M  15     275.606 123.709  -7.088  1.00 49.10      MS13
ATOM  45835  C   VAL M  15     272.303 122.697  -5.550  1.00 61.38      MS13
ATOM  45836  O   VAL M  15     272.110 121.553  -5.132  1.00 61.38      MS13
ATOM  45837  N   ASP M  16     271.689 123.755  -5.028  1.00 93.12      MS13
ATOM  45838  CA  ASP M  16     270.703 123.570  -3.964  1.00 93.12      MS13
ATOM  45839  CB  ASP M  16     269.961 124.874  -3.677  1.00 76.80      MS13
ATOM  45840  CG  ASP M  16     269.829 125.746  -4.901  1.00 76.80      MS13
ATOM  45841  OD1 ASP M  16     269.462 125.219  -5.969  1.00 76.80      MS13
ATOM  45842  OD2 ASP M  16     270.087 126.964  -4.795  1.00 76.80      MS13
ATOM  45843  C   ASP M  16     269.729 122.517  -4.467  1.00 93.12      MS13
ATOM  45844  O   ASP M  16     269.723 121.377  -3.996  1.00 93.12      MS13
ATOM  45845  N   VAL M  17     268.920 122.922  -5.438  1.00 47.78      MS13
ATOM  45846  CA  VAL M  17     267.947 122.055  -6.091  1.00 47.78      MS13
ATOM  45847  CB  VAL M  17     267.606 122.620  -7.483  1.00 24.02      MS13
ATOM  45848  CG1 VAL M  17     267.506 121.500  -8.493  1.00 24.02      MS13
ATOM  45849  CG2 VAL M  17     266.312 123.422  -7.422  1.00 24.02      MS13
ATOM  45850  C   VAL M  17     268.522 120.651  -6.269  1.00 47.78      MS13
ATOM  45851  O   VAL M  17     267.870 119.639  -5.971  1.00 47.78      MS13
ATOM  45852  N   ALA M  18     269.754 120.619  -6.769  1.00 43.60      MS13
ATOM  45853  CA  ALA M  18     270.469 119.383  -7.032  1.00 43.60      MS13
ATOM  45854  CB  ALA M  18     271.848 119.699  -7.603  1.00 71.64      MS13
ATOM  45855  C   ALA M  18     270.602 118.512  -5.797  1.00 43.60      MS13
ATOM  45856  O   ALA M  18     270.494 117.293  -5.869  1.00 43.60      MS13
ATOM  45857  N   LEU M  19     270.837 119.136  -4.657  1.00 45.19      MS13
ATOM  45858  CA  LEU M  19     270.993 118.374  -3.434  1.00 45.19      MS13
ATOM  45859  CB  LEU M  19     271.620 119.271  -2.368  1.00 57.81      MS13
ATOM  45860  CG  LEU M  19     273.026 119.689  -2.817  1.00 57.81      MS13
ATOM  45861  CD1 LEU M  19     273.396 121.045  -2.258  1.00 57.81      MS13
ATOM  45862  CD2 LEU M  19     274.017 118.621  -2.398  1.00 57.81      MS13
ATOM  45863  C   LEU M  19     269.650 117.803  -2.986  1.00 45.19      MS13
ATOM  45864  O   LEU M  19     269.598 116.785  -2.291  1.00 45.19      MS13
ATOM  45865  N   THR M  20     268.571 118.465  -3.407  1.00 54.77      MS13
ATOM  45866  CA  THR M  20     267.212 118.037  -3.090  1.00 54.77      MS13
ATOM  45867  CB  THR M  20     266.169 118.901  -3.807  1.00124.63      MS13
ATOM  45868  OG1 THR M  20     266.288 120.257  -3.369  1.00124.63      MS13
ATOM  45869  CG2 THR M  20     264.774 118.403  -3.507  1.00124.63      MS13
ATOM  45870  C   THR M  20     267.077 116.619  -3.605  1.00 54.77      MS13
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ATOM  45871  O   THR M  20     266.407 115.778  -2.996  1.00 54.77      MS13
ATOM  45872  N   TYR M  21     267.732 116.377  -4.738  1.00 31.43      MS13
ATOM  45873  CA  TYR M  21     267.745 115.073  -5.396  1.00 31.43      MS13
ATOM  45874  CB  TYR M  21     268.450 115.167  -6.752  1.00103.46      MS13
ATOM  45875  CG  TYR M  21     267.543 115.675  -7.839  1.00103.46      MS13
ATOM  45876  CD1 TYR M  21     267.093 116.992  -7.835  1.00103.46      MS13
ATOM  45877  CE1 TYR M  21     266.191 117.446  -8.794  1.00103.46      MS13
ATOM  45878  CD2 TYR M  21     267.075 114.820  -8.834  1.00103.46      MS13
ATOM  45879  CE2 TYR M  21     266.173 115.262  -9.797  1.00103.46      MS13
ATOM  45880  CZ  TYR M  21     265.733 116.576  -9.771  1.00103.46      MS13
ATOM  45881  OH  TYR M  21     264.827 117.018 -10.712  1.00103.46      MS13
ATOM  45882  C   TYR M  21     268.387 113.975  -4.565  1.00 31.43      MS13
ATOM  45883  O   TYR M  21     268.485 112.832  -5.002  1.00 31.43      MS13
ATOM  45884  N   ILE M  22     268.818 114.320  -3.363  1.00 62.92      MS13
ATOM  45885  CA  ILE M  22     269.429 113.342  -2.484  1.00 62.92      MS13
ATOM  45886  CB  ILE M  22     270.651 113.961  -1.808  1.00 61.45      MS13
ATOM  45887  CG2 ILE M  22     271.571 112.865  -1.289  1.00 61.45      MS13
ATOM  45888  CG1 ILE M  22     271.391 114.819  -2.844  1.00 61.45      MS13
ATOM  45889  CD1 ILE M  22     272.591 115.561  -2.327  1.00 61.45      MS13
ATOM  45890  C   ILE M  22     268.350 112.937  -1.480  1.00 62.92      MS13
ATOM  45891  O   ILE M  22     267.580 113.780  -1.010  1.00 62.92      MS13
ATOM  45892  N   TYR M  23     268.276 111.647  -1.166  1.00 85.24      MS13
ATOM  45893  CA  TYR M  23     267.240 111.158  -0.263  1.00 85.24      MS13
ATOM  45894  CB  TYR M  23     267.478 109.689   0.117  1.00 68.40      MS13
ATOM  45895  CG  TYR M  23     266.275 109.054   0.787  1.00 68.40      MS13
ATOM  45896  CD1 TYR M  23     265.017 109.096   0.185  1.00 68.40      MS13
ATOM  45897  CE1 TYR M  23     263.880 108.591   0.834  1.00 68.40      MS13
ATOM  45898  CD2 TYR M  23     266.374 108.476   2.055  1.00 68.40      MS13
ATOM  45899  CE2 TYR M  23     265.236 107.964   2.714  1.00 68.40      MS13
ATOM  45900  CZ  TYR M  23     263.996 108.031   2.097  1.00 68.40      MS13
ATOM  45901  OH  TYR M  23     262.873 107.574   2.749  1.00 68.40      MS13
ATOM  45902  C   TYR M  23     267.041 111.981   0.999  1.00 85.24      MS13
ATOM  45903  O   TYR M  23     265.954 112.502   1.228  1.00 85.24      MS13
ATOM  45904  N   GLY M  24     268.079 112.107   1.815  1.00 58.79      MS13
ATOM  45905  CA  GLY M  24     267.939 112.858   3.052  1.00 58.79      MS13
ATOM  45906  C   GLY M  24     268.061 114.374   3.005  1.00 58.79      MS13
ATOM  45907  O   GLY M  24     268.387 114.991   4.017  1.00 58.79      MS13
ATOM  45908  N   ILE M  25     267.793 114.993   1.861  1.00 74.96      MS13
ATOM  45909  CA  ILE M  25     267.909 116.447   1.779  1.00 74.96      MS13
ATOM  45910  CB  ILE M  25     269.144 116.857   0.971  1.00 67.55      MS13
ATOM  45911  CG2 ILE M  25     269.442 118.334   1.191  1.00 67.55      MS13
ATOM  45912  CG1 ILE M  25     270.342 116.028   1.416  1.00 67.55      MS13
ATOM  45913  CD1 ILE M  25     271.572 116.294   0.614  1.00 67.55      MS13
ATOM  45914  C   ILE M  25     266.703 117.162   1.186  1.00 74.96      MS13
ATOM  45915  O   ILE M  25     266.045 116.669   0.261  1.00 74.96      MS13
ATOM  45916  N   GLY M  26     266.430 118.340   1.731  1.00 52.29      MS13
ATOM  45917  CA  GLY M  26     265.312 119.138   1.269  1.00 52.29      MS13
ATOM  45918  C   GLY M  26     265.684 120.604   1.231  1.00 52.29      MS13
ATOM  45919  O   GLY M  26     266.744 120.973   1.731  1.00 52.29      MS13
ATOM  45920  N   LYS M  27     264.818 121.438   0.650  1.00 82.25      MS13
ATOM  45921  CA  LYS M  27     265.077 122.873   0.539  1.00 82.25      MS13
ATOM  45922  CB  LYS M  27     263.773 123.643   0.304  1.00144.84      MS13
ATOM  45923  CG  LYS M  27     263.482 123.945  -1.167  1.00144.84      MS13
ATOM  45924  CD  LYS M  27     264.523 124.896  -1.767  1.00144.84      MS13
ATOM  45925  CE  LYS M  27     264.211 125.229  -3.225  1.00144.84      MS13
ATOM  45926  NZ  LYS M  27     265.177 126.204  -3.810  1.00144.84      MS13
ATOM  45927  C   LYS M  27     265.785 123.421   1.764  1.00 82.25      MS13
ATOM  45928  O   LYS M  27     266.585 124.347   1.660  1.00 82.25      MS13
ATOM  45929  N   ALA M  28     265.498 122.837   2.922  1.00 99.18      MS13
ATOM  45930  CA  ALA M  28     266.120 123.265   4.168  1.00 99.18      MS13
ATOM  45931  CB  ALA M  28     265.419 122.599   5.345  1.00 93.25      MS13
ATOM  45932  C   ALA M  28     267.617 122.936   4.184  1.00 99.18      MS13
ATOM  45933  O   ALA M  28     268.462 123.832   4.175  1.00 99.18      MS13
ATOM  45934  N   ARG M  29     267.936 121.647   4.201  1.00 54.23      MS13
ATOM  45935  CA  ARG M  29     269.320 121.199   4.220  1.00 54.23      MS13
ATOM  45936  CB  ARG M  29     269.383 119.673   4.325  1.00 55.29      MS13
ATOM  45937  CG  ARG M  29     268.786 119.179   5.632  1.00 55.29      MS13
ATOM  45938  CD  ARG M  29     268.828 117.673   5.832  1.00 55.29      MS13
ATOM  45939  NE  ARG M  29     268.684 117.403   7.258  1.00 55.29      MS13
ATOM  45940  CZ  ARG M  29     268.707 116.200   7.814  1.00 55.29      MS13
ATOM  45941  NH1 ARG M  29     268.862 115.117   7.067  1.00 55.29      MS13
ATOM  45942  NH2 ARG M  29     268.597 116.086   9.132  1.00 55.29      MS13
ATOM  45943  C   ARG M  29     270.102 121.670   3.010  1.00 54.23      MS13
ATOM  45944  O   ARG M  29     271.326 121.596   3.001  1.00 54.23      MS13
ATOM  45945  N   ALA M  30     269.404 122.149   1.986  1.00 45.28      MS13
ATOM  45946  CA  ALA M  30     270.072 122.659   0.791  1.00 45.28      MS13
ATOM  45947  CB  ALA M  30     269.069 122.905  -0.321  1.00 54.97      MS13
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ATOM  45948  C   ALA M  30     270.723 123.967   1.196  1.00 45.28      MS13
ATOM  45949  O   ALA M  30     271.935 124.121   1.092  1.00 45.28      MS13
ATOM  45950  N   LYS M  31     269.908 124.901   1.680  1.00 65.99      MS13
ATOM  45951  CA  LYS M  31     270.411 126.195   2.115  1.00 65.99      MS13
ATOM  45952  CB  LYS M  31     269.282 127.063   2.671  1.00167.36      MS13
ATOM  45953  CG  LYS M  31     268.374 127.663   1.609  1.00167.36      MS13
ATOM  45954  CD  LYS M  31     267.362 128.616   2.233  1.00167.36      MS13
ATOM  45955  CE  LYS M  31     266.428 129.210   1.188  1.00167.36      MS13
ATOM  45956  NZ  LYS M  31     265.429 130.136   1.794  1.00167.36      MS13
ATOM  45957  C   LYS M  31     271.498 126.046   3.166  1.00 65.99      MS13
ATOM  45958  O   LYS M  31     272.308 126.948   3.345  1.00 65.99      MS13
ATOM  45959  N   GLU M  32     271.517 124.918   3.869  1.00 69.04      MS13
ATOM  45960  CA  GLU M  32     272.544 124.701   4.878  1.00 69.04      MS13
ATOM  45961  CB  GLU M  32     272.100 123.651   5.897  1.00137.64      MS13
ATOM  45962  CG  GLU M  32     271.410 124.253   7.112  1.00137.64      MS13
ATOM  45963  CD  GLU M  32     271.135 123.234   8.205  1.00137.64      MS13
ATOM  45964  OE1 GLU M  32     272.089 122.550   8.636  1.00137.64      MS13
ATOM  45965  OE2 GLU M  32     269.966 123.123   8.638  1.00137.64      MS13
ATOM  45966  C   GLU M  32     273.880 124.297   4.251  1.00 69.04      MS13
ATOM  45967  O   GLU M  32     274.834 125.069   4.284  1.00 69.04      MS13
ATOM  45968  N   ALA M  33     273.961 123.097   3.681  1.00 57.12      MS13
ATOM  45969  CA  ALA M  33     275.207 122.657   3.059  1.00 57.12      MS13
ATOM  45970  CB  ALA M  33     274.968 121.408   2.222  1.00 59.33      MS13
ATOM  45971  C   ALA M  33     275.791 123.771   2.189  1.00 57.12      MS13
ATOM  45972  O   ALA M  33     276.962 124.116   2.312  1.00 57.12      MS13
ATOM  45973  N   LEU M  34     274.971 124.346   1.317  1.00 68.18      MS13
ATOM  45974  CA  LEU M  34     275.450 125.415   0.457  1.00 68.18      MS13
ATOM  45975  CB  LEU M  34     274.456 125.710  -0.668  1.00 64.00      MS13
ATOM  45976  CG  LEU M  34     274.357 124.686  -1.801  1.00 64.00      MS13
ATOM  45977  CD1 LEU M  34     273.857 125.388  -3.054  1.00 64.00      MS13
ATOM  45978  CD2 LEU M  34     275.717 124.064  -2.077  1.00 64.00      MS13
ATOM  45979  C   LEU M  34     275.707 126.686   1.235  1.00 68.18      MS13
ATOM  45980  O   LEU M  34     276.006 127.724   0.653  1.00 68.18      MS13
ATOM  45981  N   GLU M  35     275.581 126.613   2.553  1.00 58.86      MS13
ATOM  45982  CA  GLU M  35     275.821 127.784   3.387  1.00 58.86      MS13
ATOM  45983  CB  GLU M  35     274.661 128.022   4.354  1.00201.30      MS13
ATOM  45984  CG  GLU M  35     274.743 129.352   5.087  1.00201.30      MS13
ATOM  45985  CD  GLU M  35     274.717 130.537   4.139  1.00201.30      MS13
ATOM  45986  OE1 GLU M  35     273.705 130.706   3.426  1.00201.30      MS13
ATOM  45987  OE2 GLU M  35     275.708 131.296   4.103  1.00201.30      MS13
ATOM  45988  C   GLU M  35     277.097 127.563   4.167  1.00 58.86      MS13
ATOM  45989  O   GLU M  35     278.085 128.253   3.947  1.00 58.86      MS13
ATOM  45990  N   LYS M  36     277.073 126.602   5.085  1.00 95.12      MS13
ATOM  45991  CA  LYS M  36     278.259 126.298   5.863  1.00 95.12      MS13
ATOM  45992  CB  LYS M  36     278.028 125.062   6.732  1.00147.18      MS13
ATOM  45993  CG  LYS M  36     277.037 125.310   7.859  1.00147.18      MS13
ATOM  45994  CD  LYS M  36     277.298 124.383   9.030  1.00147.18      MS13
ATOM  45995  CE  LYS M  36     276.441 124.743  10.230  1.00147.18      MS13
ATOM  45996  NZ  LYS M  36     276.774 123.891  11.406  1.00147.18      MS13
ATOM  45997  C   LYS M  36     279.380 126.067   4.859  1.00 95.12      MS13
ATOM  45998  O   LYS M  36     280.471 126.616   4.999  1.00 95.12      MS13
ATOM  45999  N   THR M  37     279.104 125.257   3.843  1.00 60.65      MS13
ATOM  46000  CA  THR M  37     280.073 125.012   2.781  1.00 60.65      MS13
ATOM  46001  CB  THR M  37     279.798 123.671   2.060  1.00 58.87      MS13
ATOM  46002  OG1 THR M  37     280.081 122.580   2.944  1.00 58.87      MS13
ATOM  46003  CG2 THR M  37     280.662 123.539   0.834  1.00 58.87      MS13
ATOM  46004  C   THR M  37     279.802 126.183   1.841  1.00 60.65      MS13
ATOM  46005  O   THR M  37     279.304 126.018   0.729  1.00 60.65      MS13
ATOM  46006  N   GLY M  38     280.108 127.374   2.345  1.00 50.05      MS13
ATOM  46007  CA  GLY M  38     279.892 128.614   1.624  1.00 50.05      MS13
ATOM  46008  C   GLY M  38     280.074 128.562   0.130  1.00 50.05      MS13
ATOM  46009  O   GLY M  38     281.153 128.841  -0.373  1.00 50.05      MS13
ATOM  46010  N   ILE M  39     279.010 128.220  -0.585  1.00100.35      MS13
ATOM  46011  CA  ILE M  39     279.052 128.134  -2.038  1.00100.35      MS13
ATOM  46012  CB  ILE M  39     279.055 126.676  -2.508  1.00 21.23      MS13
ATOM  46013  CG2 ILE M  39     279.076 126.634  -4.031  1.00 21.23      MS13
ATOM  46014  CG1 ILE M  39     280.238 125.919  -1.903  1.00 21.23      MS13
ATOM  46015  CD1 ILE M  39     280.212 124.438  -2.202  1.00 21.23      MS13
ATOM  46016  C   ILE M  39     277.808 128.786  -2.616  1.00100.35      MS13
ATOM  46017  O   ILE M  39     276.697 128.430  -2.240  1.00100.35      MS13
ATOM  46018  N   ASN M  40     277.981 129.730  -3.531  1.00 60.89      MS13
ATOM  46019  CA  ASN M  40     276.822 130.382  -4.129  1.00 60.89      MS13
ATOM  46020  CB  ASN M  40     277.234 131.283  -5.280  1.00 85.46      MS13
ATOM  46021  CG  ASN M  40     276.043 131.880  -5.996  1.00 85.46      MS13
ATOM  46022  OD1 ASN M  40     276.194 132.571  -7.005  1.00 85.46      MS13
ATOM  46023  ND2 ASN M  40     274.848 131.622  -5.477  1.00 85.46      MS13
ATOM  46024  C   ASN M  40     275.898 129.308  -4.662  1.00 60.89      MS13
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ATOM  46025  O   ASN M  40     276.277 128.554  -5.552  1.00 60.89      MS13
ATOM  46026  N   PRO M  41     274.664 129.238  -4.137  1.00 85.22      MS13
ATOM  46027  CD  PRO M  41     274.100 130.213  -3.192  1.00101.19      MS13
ATOM  46028  CA  PRO M  41     273.642 128.261  -4.525  1.00 85.22      MS13
ATOM  46029  CB  PRO M  41     272.394 128.766  -3.814  1.00101.19      MS13
ATOM  46030  CG  PRO M  41     272.937 129.454  -2.627  1.00101.19      MS13
ATOM  46031  C   PRO M  41     273.423 128.205  -6.020  1.00 85.22      MS13
ATOM  46032  O   PRO M  41     273.509 127.144  -6.638  1.00 85.22      MS13
ATOM  46033  N   ALA M  42     273.134 129.374  -6.579  1.00 53.74      MS13
ATOM  46034  CA  ALA M  42     272.860 129.544  -7.994  1.00 53.74      MS13
ATOM  46035  CB  ALA M  42     272.700 131.019  -8.294  1.00 84.57      MS13
ATOM  46036  C   ALA M  42     273.849 128.925  -8.982  1.00 53.74      MS13
ATOM  46037  O   ALA M  42     273.619 128.993 -10.194  1.00 53.74      MS13
ATOM  46038  N   THR M  43     274.938 128.330  -8.500  1.00 40.85      MS13
ATOM  46039  CA  THR M  43     275.900 127.717  -9.414  1.00 40.85      MS13
ATOM  46040  CB  THR M  43     277.281 127.566  -8.756  1.00101.16      MS13
ATOM  46041  OG1 THR M  43     277.139 126.925  -7.483  1.00101.16      MS13
ATOM  46042  CG2 THR M  43     277.930 128.922  -8.572  1.00101.16      MS13
ATOM  46043  C   THR M  43     275.429 126.342  -9.910  1.00 40.85      MS13
ATOM  46044  O   THR M  43     274.861 125.550  -9.149  1.00 40.85      MS13
ATOM  46045  N   ARG M  44     275.646 126.068 -11.196  1.00 47.19      MS13
ATOM  46046  CA  ARG M  44     275.258 124.788 -11.784  1.00 47.19      MS13
ATOM  46047  CB  ARG M  44     275.439 124.845 -13.297  1.00107.02      MS13
ATOM  46048  CG  ARG M  44     274.149 124.783 -14.080  1.00107.02      MS13
ATOM  46049  CD  ARG M  44     273.142 125.822 -13.620  1.00107.02      MS13
ATOM  46050  NE  ARG M  44     271.906 125.723 -14.391  1.00107.02      MS13
ATOM  46051  CZ  ARG M  44     270.800 126.409 -14.131  1.00107.02      MS13
ATOM  46052  NH1 ARG M  44     270.764 127.253 -13.111  1.00107.02      MS13
ATOM  46053  NH2 ARG M  44     269.730 126.250 -14.895  1.00107.02      MS13
ATOM  46054  C   ARG M  44     276.153 123.708 -11.191  1.00 47.19      MS13
ATOM  46055  O   ARG M  44     277.294 123.989 -10.824  1.00 47.19      MS13
ATOM  46056  N   VAL M  45     275.662 122.479 -11.082  1.00 38.08      MS13
ATOM  46057  CA  VAL M  45     276.514 121.442 -10.504  1.00 38.08      MS13
ATOM  46058  CB  VAL M  45     275.829 120.057 -10.441  1.00 61.12      MS13
ATOM  46059  CG1 VAL M  45     276.843 119.006 -10.001  1.00 61.12      MS13
ATOM  46060  CG2 VAL M  45     274.675 120.085  -9.449  1.00 61.12      MS13
ATOM  46061  C   VAL M  45     277.777 121.322 -11.333  1.00 38.08      MS13
ATOM  46062  O   VAL M  45     278.866 121.124 -10.799  1.00 38.08      MS13
ATOM  46063  N   LYS M  46     277.624 121.449 -12.644  1.00 74.89      MS13
ATOM  46064  CA  LYS M  46     278.764 121.372 -13.543  1.00 74.89      MS13
ATOM  46065  CB  LYS M  46     278.295 121.522 -14.986  1.00 96.51      MS13
ATOM  46066  CG  LYS M  46     277.176 122.527 -15.157  1.00 96.51      MS13
ATOM  46067  CD  LYS M  46     276.560 122.437 -16.544  1.00 96.51      MS13
ATOM  46068  CE  LYS M  46     277.562 122.803 -17.620  1.00 96.51      MS13
ATOM  46069  NZ  LYS M  46     278.100 124.180 -17.414  1.00 96.51      MS13
ATOM  46070  C   LYS M  46     279.787 122.451 -13.203  1.00 74.89      MS13
ATOM  46071  O   LYS M  46     280.965 122.156 -13.025  1.00 74.89      MS13
ATOM  46072  N   ASP M  47     279.328 123.696 -13.098  1.00 89.22      MS13
ATOM  46073  CA  ASP M  47     280.202 124.819 -12.774  1.00 89.22      MS13
ATOM  46074  CB  ASP M  47     279.413 126.129 -12.796  1.00189.60      MS13
ATOM  46075  CG  ASP M  47     278.821 126.426 -14.155  1.00189.60      MS13
ATOM  46076  OD1 ASP M  47     279.575 126.402 -15.150  1.00189.60      MS13
ATOM  46077  OD2 ASP M  47     277.602 126.689 -14.228  1.00189.60      MS13
ATOM  46078  C   ASP M  47     280.890 124.670 -11.416  1.00 89.22      MS13
ATOM  46079  O   ASP M  47     281.853 125.382 -11.126  1.00 89.22      MS13
ATOM  46080  N   LEU M  48     280.403 123.758 -10.580  1.00 64.46      MS13
ATOM  46081  CA  LEU M  48     281.018 123.557  -9.270  1.00 64.46      MS13
ATOM  46082  CB  LEU M  48     280.405 122.363  -8.535  1.00 66.36      MS13
ATOM  46083  CG  LEU M  48     279.143 122.544  -7.697  1.00 66.36      MS13
ATOM  46084  CD1 LEU M  48     278.960 121.290  -6.856  1.00 66.36      MS13
ATOM  46085  CD2 LEU M  48     279.257 123.776  -6.793  1.00 66.36      MS13
ATOM  46086  C   LEU M  48     282.509 123.316  -9.390  1.00 64.46      MS13
ATOM  46087  O   LEU M  48     282.978 122.766 -10.379  1.00 64.46      MS13
ATOM  46088  N   THR M  49     283.246 123.718  -8.363  1.00 63.72      MS13
ATOM  46089  CA  THR M  49     284.689 123.540  -8.328  1.00 63.72      MS13
ATOM  46090  CB  THR M  49     285.366 124.696  -7.601  1.00 69.16      MS13
ATOM  46091  OG1 THR M  49     285.238 125.886  -8.384  1.00 69.16      MS13
ATOM  46092  CG2 THR M  49     286.831 124.388  -7.363  1.00 69.16      MS13
ATOM  46093  C   THR M  49     285.025 122.261  -7.589  1.00 63.72      MS13
ATOM  46094  O   THR M  49     284.388 121.936  -6.587  1.00 63.72      MS13
ATOM  46095  N   GLU M  50     286.023 121.537  -8.092  1.00 85.69      MS13
ATOM  46096  CA  GLU M  50     286.451 120.294  -7.464  1.00 85.69      MS13
ATOM  46097  CB  GLU M  50     287.840 119.901  -7.967  1.00200.31      MS13
ATOM  46098  CG  GLU M  50     288.395 118.659  -7.305  1.00200.31      MS13
ATOM  46099  CD  GLU M  50     287.407 117.512  -7.323  1.00200.31      MS13
ATOM  46100  OE1 GLU M  50     286.936 117.150  -8.422  1.00200.31      MS13
ATOM  46101  OE2 GLU M  50     287.100 116.975  -6.238  1.00200.31      MS13
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ATOM  46102  C   GLU M  50     286.485 120.522  -5.959  1.00 85.69      MS13
ATOM  46103  O   GLU M  50     286.025 119.690  -5.177  1.00 85.69      MS13
ATOM  46104  N   ALA M  51     287.025 121.673  -5.569  1.00 77.79      MS13
ATOM  46105  CA  ALA M  51     287.118 122.046  -4.168  1.00 77.79      MS13
ATOM  46106  CB  ALA M  51     287.786 123.401  -4.037  1.00118.00      MS13
ATOM  46107  C   ALA M  51     285.717 122.098  -3.588  1.00 77.79      MS13
ATOM  46108  O   ALA M  51     285.377 121.318  -2.700  1.00 77.79      MS13
ATOM  46109  N   GLU M  52     284.903 123.015  -4.104  1.00 56.10      MS13
ATOM  46110  CA  GLU M  52     283.528 123.172  -3.640  1.00 56.10      MS13
ATOM  46111  CB  GLU M  52     282.718 123.991  -4.650  1.00100.47      MS13
ATOM  46112  CG  GLU M  52     283.226 125.410  -4.822  1.00100.47      MS13
ATOM  46113  CD  GLU M  52     282.361 126.250  -5.744  1.00100.47      MS13
ATOM  46114  OE1 GLU M  52     282.245 125.910  -6.941  1.00100.47      MS13
ATOM  46115  OE2 GLU M  52     281.796 127.259  -5.271  1.00100.47      MS13
ATOM  46116  C   GLU M  52     282.870 121.815  -3.417  1.00 56.10      MS13
ATOM  46117  O   GLU M  52     282.287 121.561  -2.364  1.00 56.10      MS13
ATOM  46118  N   VAL M  53     282.977 120.940  -4.408  1.00 66.48      MS13
ATOM  46119  CA  VAL M  53     282.387 119.616  -4.303  1.00 66.48      MS13
ATOM  46120  CB  VAL M  53     282.749 118.737  -5.512  1.00 68.69      MS13
ATOM  46121  CG1 VAL M  53     282.234 117.318  -5.299  1.00 68.69      MS13
ATOM  46122  CG2 VAL M  53     282.149 119.336  -6.781  1.00 68.69      MS13
ATOM  46123  C   VAL M  53     282.871 118.934  -3.042  1.00 66.48      MS13
ATOM  46124  O   VAL M  53     282.074 118.398  -2.277  1.00 66.48      MS13
ATOM  46125  N   VAL M  54     284.180 118.966  -2.826  1.00 63.81      MS13
ATOM  46126  CA  VAL M  54     284.774 118.340  -1.651  1.00 63.81      MS13
ATOM  46127  CB  VAL M  54     286.296 118.571  -1.605  1.00121.37      MS13
ATOM  46128  CG1 VAL M  54     286.895 117.860  -0.402  1.00121.37      MS13
ATOM  46129  CG2 VAL M  54     286.928 118.072  -2.887  1.00121.37      MS13
ATOM  46130  C   VAL M  54     284.161 118.873  -0.356  1.00 63.81      MS13
ATOM  46131  O   VAL M  54     283.633 118.110   0.446  1.00 63.81      MS13
ATOM  46132  N   ARG M  55     284.237 120.184  -0.153  1.00 98.44      MS13
ATOM  46133  CA  ARG M  55     283.688 120.795   1.049  1.00 98.44      MS13
ATOM  46134  CB  ARG M  55     283.781 122.318   0.943  1.00102.81      MS13
ATOM  46135  CG  ARG M  55     285.178 122.835   0.653  1.00102.81      MS13
ATOM  46136  CD  ARG M  55     285.190 124.349   0.531  1.00102.81      MS13
ATOM  46137  NE  ARG M  55     284.352 124.812  -0.571  1.00102.81      MS13
ATOM  46138  CZ  ARG M  55     284.174 126.089  -0.893  1.00102.81      MS13
ATOM  46139  NH1 ARG M  55     284.777 127.042  -0.198  1.00102.81      MS13
ATOM  46140  NH2 ARG M  55     283.390 126.417  -1.910  1.00102.81      MS13
ATOM  46141  C   ARG M  55     282.229 120.374   1.250  1.00 98.44      MS13
ATOM  46142  O   ARG M  55     281.812 120.057   2.367  1.00 98.44      MS13
ATOM  46143  N   LEU M  56     281.468 120.373   0.156  1.00 39.67      MS13
ATOM  46144  CA  LEU M  56     280.055 119.999   0.164  1.00 39.67      MS13
ATOM  46145  CB  LEU M  56     279.451 120.293  -1.212  1.00 51.28      MS13
ATOM  46146  CG  LEU M  56     277.992 120.737  -1.340  1.00 51.28      MS13
ATOM  46147  CD1 LEU M  56     277.643 120.853  -2.820  1.00 51.28      MS13
ATOM  46148  CD2 LEU M  56     277.070 119.752  -0.652  1.00 51.28      MS13
ATOM  46149  C   LEU M  56     279.928 118.504   0.479  1.00 39.67      MS13
ATOM  46150  O   LEU M  56     279.400 118.103   1.520  1.00 39.67      MS13
ATOM  46151  N   ARG M  57     280.421 117.684  -0.436  1.00 70.07      MS13
ATOM  46152  CA  ARG M  57     280.371 116.246  -0.264  1.00 70.07      MS13
ATOM  46153  CB  ARG M  57     281.422 115.574  -1.149  1.00 92.18      MS13
ATOM  46154  CG  ARG M  57     281.397 114.069  -1.079  1.00 92.18      MS13
ATOM  46155  CD  ARG M  57     282.490 113.454  -1.919  1.00 92.18      MS13
ATOM  46156  NE  ARG M  57     282.422 113.880  -3.312  1.00 92.18      MS13
ATOM  46157  CZ  ARG M  57     283.182 113.378  -4.282  1.00 92.18      MS13
ATOM  46158  NH1 ARG M  57     284.065 112.428  -4.007  1.00 92.18      MS13
ATOM  46159  NH2 ARG M  57     283.065 113.826  -5.529  1.00 92.18      MS13
ATOM  46160  C   ARG M  57     280.609 115.863   1.192  1.00 70.07      MS13
ATOM  46161  O   ARG M  57     279.935 114.987   1.725  1.00 70.07      MS13
ATOM  46162  N   GLU M  58     281.558 116.532   1.837  1.00 89.67      MS13
ATOM  46163  CA  GLU M  58     281.887 116.233   3.225  1.00 89.67      MS13
ATOM  46164  CB  GLU M  58     283.275 116.781   3.570  1.00201.30      MS13
ATOM  46165  CG  GLU M  58     284.406 116.186   2.733  1.00201.30      MS13
ATOM  46166  CD  GLU M  58     284.547 114.678   2.897  1.00201.30      MS13
ATOM  46167  OE1 GLU M  58     285.414 114.087   2.217  1.00201.30      MS13
ATOM  46168  OE2 GLU M  58     283.799 114.082   3.701  1.00201.30      MS13
ATOM  46169  C   GLU M  58     280.860 116.760   4.217  1.00 89.67      MS13
ATOM  46170  O   GLU M  58     280.232 115.980   4.939  1.00 89.67      MS13
ATOM  46171  N   TYR M  59     280.684 118.078   4.256  1.00 61.63      MS13
ATOM  46172  CA  TYR M  59     279.723 118.676   5.177  1.00 61.63      MS13
ATOM  46173  CB  TYR M  59     279.582 120.177   4.937  1.00104.82      MS13
ATOM  46174  CG  TYR M  59     278.475 120.772   5.775  1.00104.82      MS13
ATOM  46175  CD1 TYR M  59     278.554 120.763   7.166  1.00104.82      MS13
ATOM  46176  CE1 TYR M  59     277.515 121.231   7.945  1.00104.82      MS13
ATOM  46177  CD2 TYR M  59     277.318 121.273   5.184  1.00104.82      MS13
ATOM  46178  CE2 TYR M  59     276.271 121.746   5.958  1.00104.82      MS13
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ATOM  46179  CZ  TYR M  59     276.378 121.720   7.338  1.00104.82      MS13
ATOM  46180  OH  TYR M  59     275.346 122.182   8.117  1.00104.82      MS13
ATOM  46181  C   TYR M  59     278.341 118.051   5.069  1.00 61.63      MS13
ATOM  46182  O   TYR M  59     277.456 118.344   5.875  1.00 61.63      MS13
ATOM  46183  N   VAL M  60     278.149 117.198   4.069  1.00 42.59      MS13
ATOM  46184  CA  VAL M  60     276.861 116.550   3.882  1.00 42.59      MS13
ATOM  46185  CB  VAL M  60     276.367 116.705   2.424  1.00 21.35      MS13
ATOM  46186  CG1 VAL M  60     275.201 115.764   2.165  1.00 21.35      MS13
ATOM  46187  CG2 VAL M  60     275.923 118.140   2.191  1.00 21.35      MS13
ATOM  46188  C   VAL M  60     276.876 115.082   4.280  1.00 42.59      MS13
ATOM  46189  O   VAL M  60     276.067 114.666   5.102  1.00 42.59      MS13
ATOM  46190  N   GLU M  61     277.782 114.299   3.701  1.00 64.05      MS13
ATOM  46191  CA  GLU M  61     277.859 112.881   4.041  1.00 64.05      MS13
ATOM  46192  CB  GLU M  61     278.980 112.199   3.263  1.00133.26      MS13
ATOM  46193  CG  GLU M  61     278.724 112.123   1.777  1.00133.26      MS13
ATOM  46194  CD  GLU M  61     279.731 111.248   1.074  1.00133.26      MS13
ATOM  46195  OE1 GLU M  61     279.816 110.052   1.417  1.00133.26      MS13
ATOM  46196  OE2 GLU M  61     280.439 111.753   0.181  1.00133.26      MS13
ATOM  46197  C   GLU M  61     278.127 112.797   5.535  1.00 64.05      MS13
ATOM  46198  O   GLU M  61     277.843 111.790   6.199  1.00 64.05      MS13
ATOM  46199  N   ASN M  62     278.697 113.880   6.045  1.00 69.81      MS13
ATOM  46200  CA  ASN M  62     278.991 114.020   7.457  1.00 69.81      MS13
ATOM  46201  CB  ASN M  62     280.459 114.386   7.657  1.00170.11      MS13
ATOM  46202  CG  ASN M  62     281.399 113.313   7.141  1.00170.11      MS13
ATOM  46203  OD1 ASN M  62     282.617 113.495   7.118  1.00170.11      MS13
ATOM  46204  ND2 ASN M  62     280.836 112.183   6.728  1.00170.11      MS13
ATOM  46205  C   ASN M  62     278.092 115.189   7.795  1.00 69.81      MS13
ATOM  46206  O   ASN M  62     278.117 116.188   7.084  1.00 69.81      MS13
ATOM  46207  N   THR M  63     277.284 115.038   8.843  1.00 84.27      MS13
ATOM  46208  CA  THR M  63     276.327 116.056   9.299  1.00 84.27      MS13
ATOM  46209  CB  THR M  63     276.249 117.302   8.363  1.00 48.77      MS13
ATOM  46210  OG1 THR M  63     277.491 118.011   8.374  1.00 48.77      MS13
ATOM  46211  CG2 THR M  63     275.163 118.240   8.820  1.00 48.77      MS13
ATOM  46212  C   THR M  63     274.923 115.453   9.321  1.00 84.27      MS13
ATOM  46213  O   THR M  63     274.150 115.657  10.260  1.00 84.27      MS13
ATOM  46214  N   TRP M  64     274.595 114.710   8.274  1.00 97.66      MS13
ATOM  46215  CA  TRP M  64     273.276 114.121   8.176  1.00 97.66      MS13
ATOM  46216  CB  TRP M  64     272.459 114.875   7.128  1.00 38.81      MS13
ATOM  46217  CG  TRP M  64     272.277 116.310   7.452  1.00 38.81      MS13
ATOM  46218  CD2 TRP M  64     272.437 117.422   6.563  1.00 38.81      MS13
ATOM  46219  CE2 TRP M  64     272.134 118.592   7.298  1.00 38.81      MS13
ATOM  46220  CE3 TRP M  64     272.807 117.546   5.218  1.00 38.81      MS13
ATOM  46221  CD1 TRP M  64     271.894 116.830   8.651  1.00 38.81      MS13
ATOM  46222  NE1 TRP M  64     271.804 118.202   8.570  1.00 38.81      MS13
ATOM  46223  CZ2 TRP M  64     272.191 119.882   6.727  1.00 38.81      MS13
ATOM  46224  CZ3 TRP M  64     272.863 118.832   4.649  1.00 38.81      MS13
ATOM  46225  CH2 TRP M  64     272.557 119.978   5.408  1.00 38.81      MS13
ATOM  46226  C   TRP M  64     273.275 112.642   7.843  1.00 97.66      MS13
ATOM  46227  O   TRP M  64     274.264 112.084   7.369  1.00 97.66      MS13
ATOM  46228  N   LYS M  65     272.140 112.014   8.109  1.00 86.99      MS13
ATOM  46229  CA  LYS M  65     271.953 110.606   7.830  1.00 86.99      MS13
ATOM  46230  CB  LYS M  65     271.234 109.947   9.007  1.00111.33      MS13
ATOM  46231  CG  LYS M  65     271.547 108.475   9.202  1.00111.33      MS13
ATOM  46232  CD  LYS M  65     270.977 107.972  10.521  1.00111.33      MS13
ATOM  46233  CE  LYS M  65     271.352 106.522  10.785  1.00111.33      MS13
ATOM  46234  NZ  LYS M  65     270.850 106.081  12.116  1.00111.33      MS13
ATOM  46235  C   LYS M  65     271.066 110.626   6.590  1.00 86.99      MS13
ATOM  46236  O   LYS M  65     269.995 111.237   6.608  1.00 86.99      MS13
ATOM  46237  N   LEU M  66     271.522 109.994   5.510  1.00 58.51      MS13
ATOM  46238  CA  LEU M  66     270.754 109.970   4.267  1.00 58.51      MS13
ATOM  46239  CB  LEU M  66     271.220 111.090   3.339  1.00 47.95      MS13
ATOM  46240  CG  LEU M  66     271.756 112.321   4.066  1.00 47.95      MS13
ATOM  46241  CD1 LEU M  66     273.213 112.047   4.410  1.00 47.95      MS13
ATOM  46242  CD2 LEU M  66     271.642 113.574   3.208  1.00 47.95      MS13
ATOM  46243  C   LEU M  66     270.857 108.635   3.542  1.00 58.51      MS13
ATOM  46244  O   LEU M  66     271.440 107.685   4.056  1.00 58.51      MS13
ATOM  46245  N   GLU M  67     270.288 108.574   2.344  1.00 60.28      MS13
ATOM  46246  CA  GLU M  67     270.293 107.357   1.539  1.00 60.28      MS13
ATOM  46247  CB  GLU M  67     271.570 107.272   0.715  1.00 87.93      MS13
ATOM  46248  CG  GLU M  67     271.646 108.342  -0.343  1.00 87.93      MS13
ATOM  46249  CD  GLU M  67     270.304 108.588  -1.008  1.00 87.93      MS13
ATOM  46250  OE1 GLU M  67     269.609 107.601  -1.348  1.00 87.93      MS13
ATOM  46251  OE2 GLU M  67     269.950 109.772  -1.193  1.00 87.93      MS13
ATOM  46252  C   GLU M  67     270.119 106.078   2.341  1.00 60.28      MS13
ATOM  46253  O   GLU M  67     269.266 106.002   3.222  1.00 60.28      MS13
ATOM  46254  N   GLY M  68     270.928 105.073   2.026  1.00 83.26      MS13
ATOM  46255  CA  GLY M  68     270.845 103.804   2.728  1.00 83.26      MS13
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ATOM  46256  C   GLY M  68     270.428 103.893   4.186  1.00 83.26      MS13
ATOM  46257  O   GLY M  68     269.488 103.219   4.605  1.00 83.26      MS13
ATOM  46258  N   GLU M  69     271.121 104.725   4.960  1.00 79.07      MS13
ATOM  46259  CA  GLU M  69     270.823 104.891   6.378  1.00 79.07      MS13
ATOM  46260  CB  GLU M  69     271.691 105.993   6.978  1.00152.68      MS13
ATOM  46261  CG  GLU M  69     273.138 105.601   7.182  1.00152.68      MS13
ATOM  46262  CD  GLU M  69     273.938 106.712   7.823  1.00152.68      MS13
ATOM  46263  OE1 GLU M  69     274.095 107.775   7.186  1.00152.68      MS13
ATOM  46264  OE2 GLU M  69     274.400 106.526   8.969  1.00152.68      MS13
ATOM  46265  C   GLU M  69     269.357 105.190   6.663  1.00 79.07      MS13
ATOM  46266  O   GLU M  69     268.656 104.347   7.217  1.00 79.07      MS13
ATOM  46267  N   LEU M  70     268.895 106.387   6.310  1.00 51.32      MS13
ATOM  46268  CA  LEU M  70     267.495 106.737   6.540  1.00 51.32      MS13
ATOM  46269  CB  LEU M  70     267.090 107.954   5.713  1.00 47.78      MS13
ATOM  46270  CG  LEU M  70     267.459 109.339   6.237  1.00 47.78      MS13
ATOM  46271  CD1 LEU M  70     267.009 110.398   5.231  1.00 47.78      MS13
ATOM  46272  CD2 LEU M  70     266.813 109.558   7.597  1.00 47.78      MS13
ATOM  46273  C   LEU M  70     266.614 105.565   6.138  1.00 51.32      MS13
ATOM  46274  O   LEU M  70     266.025 104.898   6.988  1.00 51.32      MS13
ATOM  46275  N   ARG M  71     266.536 105.322   4.834  1.00 64.24      MS13
ATOM  46276  CA  ARG M  71     265.739 104.234   4.288  1.00 64.24      MS13
ATOM  46277  CB  ARG M  71     266.294 103.822   2.927  1.00 97.54      MS13
ATOM  46278  CG  ARG M  71     266.210 104.917   1.891  1.00 97.54      MS13
ATOM  46279  CD  ARG M  71     266.845 104.503   0.583  1.00 97.54      MS13
ATOM  46280  NE  ARG M  71     266.624 105.519  -0.435  1.00 97.54      MS13
ATOM  46281  CZ  ARG M  71     265.423 105.855  -0.890  1.00 97.54      MS13
ATOM  46282  NH1 ARG M  71     264.339 105.251  -0.420  1.00 97.54      MS13
ATOM  46283  NH2 ARG M  71     265.306 106.807  -1.804  1.00 97.54      MS13
ATOM  46284  C   ARG M  71     265.742 103.041   5.229  1.00 64.24      MS13
ATOM  46285  O   ARG M  71     264.761 102.298   5.322  1.00 64.24      MS13
ATOM  46286  N   ALA M  72     266.855 102.862   5.925  1.00 58.70      MS13
ATOM  46287  CA  ALA M  72     266.989 101.769   6.870  1.00 58.70      MS13
ATOM  46288  CB  ALA M  72     268.458 101.428   7.068  1.00141.58      MS13
ATOM  46289  C   ALA M  72     266.366 102.170   8.196  1.00 58.70      MS13
ATOM  46290  O   ALA M  72     265.487 101.472   8.714  1.00 58.70      MS13
ATOM  46291  N   GLU M  73     266.831 103.295   8.738  1.00 58.88      MS13
ATOM  46292  CA  GLU M  73     266.337 103.799  10.009  1.00 58.88      MS13
ATOM  46293  CB  GLU M  73     266.728 105.266  10.205  1.00201.30      MS13
ATOM  46294  CG  GLU M  73     266.407 105.798  11.596  1.00201.30      MS13
ATOM  46295  CD  GLU M  73     266.725 107.273  11.755  1.00201.30      MS13
ATOM  46296  OE1 GLU M  73     266.069 108.101  11.089  1.00201.30      MS13
ATOM  46297  OE2 GLU M  73     267.634 107.604  12.546  1.00201.30      MS13
ATOM  46298  C   GLU M  73     264.831 103.668  10.017  1.00 58.88      MS13
ATOM  46299  O   GLU M  73     264.270 102.884  10.784  1.00 58.88      MS13
ATOM  46300  N   VAL M  74     264.185 104.423   9.137  1.00 67.39      MS13
ATOM  46301  CA  VAL M  74     262.733 104.412   9.017  1.00 67.39      MS13
ATOM  46302  CB  VAL M  74     262.302 105.046   7.703  1.00 46.28      MS13
ATOM  46303  CG1 VAL M  74     260.800 104.990   7.574  1.00 46.28      MS13
ATOM  46304  CG2 VAL M  74     262.776 106.480   7.659  1.00 46.28      MS13
ATOM  46305  C   VAL M  74     262.145 103.010   9.096  1.00 67.39      MS13
ATOM  46306  O   VAL M  74     261.306 102.721   9.949  1.00 67.39      MS13
ATOM  46307  N   ALA M  75     262.578 102.141   8.195  1.00 45.42      MS13
ATOM  46308  CA  ALA M  75     262.089 100.777   8.203  1.00 45.42      MS13
ATOM  46309  CB  ALA M  75     262.921  99.919   7.263  1.00179.01      MS13
ATOM  46310  C   ALA M  75     262.206 100.259   9.631  1.00 45.42      MS13
ATOM  46311  O   ALA M  75     261.214  99.856  10.236  1.00 45.42      MS13
ATOM  46312  N   ALA M  76     263.427 100.291  10.161  1.00 78.94      MS13
ATOM  46313  CA  ALA M  76     263.707  99.829  11.515  1.00 78.94      MS13
ATOM  46314  CB  ALA M  76     265.116 100.238  11.915  1.00171.80      MS13
ATOM  46315  C   ALA M  76     262.696 100.350  12.538  1.00 78.94      MS13
ATOM  46316  O   ALA M  76     262.408  99.672  13.530  1.00 78.94      MS13
ATOM  46317  N   ASN M  77     262.173 101.554  12.304  1.00 80.13      MS13
ATOM  46318  CA  ASN M  77     261.178 102.139  13.200  1.00 80.13      MS13
ATOM  46319  CB  ASN M  77     260.962 103.619  12.898  1.00108.01      MS13
ATOM  46320  CG  ASN M  77     262.064 104.484  13.439  1.00108.01      MS13
ATOM  46321  OD1 ASN M  77     262.471 104.342  14.592  1.00108.01      MS13
ATOM  46322  ND2 ASN M  77     262.551 105.400  12.614  1.00108.01      MS13
ATOM  46323  C   ASN M  77     259.848 101.413  13.049  1.00 80.13      MS13
ATOM  46324  O   ASN M  77     259.351 100.797  13.993  1.00 80.13      MS13
ATOM  46325  N   ILE M  78     259.258 101.504  11.862  1.00 34.87      MS13
ATOM  46326  CA  ILE M  78     257.999 100.828  11.615  1.00 34.87      MS13
ATOM  46327  CB  ILE M  78     257.715 100.733  10.117  1.00 35.92      MS13
ATOM  46328  CG2 ILE M  78     256.732  99.619   9.847  1.00 35.92      MS13
ATOM  46329  CG1 ILE M  78     257.205 102.078   9.601  1.00 35.92      MS13
ATOM  46330  CD1 ILE M  78     258.249 103.169   9.580  1.00 35.92      MS13
ATOM  46331  C   ILE M  78     258.105  99.422  12.193  1.00 34.87      MS13
ATOM  46332  O   ILE M  78     257.337  99.034  13.077  1.00 34.87      MS13
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ATOM  46333  N   LYS M  79     259.079  98.674  11.686  1.00 54.51      MS13
ATOM  46334  CA  LYS M  79     259.330  97.318  12.140  1.00 54.51      MS13
ATOM  46335  CB  LYS M  79     260.730  96.877  11.707  1.00201.30      MS13
ATOM  46336  CG  LYS M  79     261.111  95.472  12.138  1.00201.30      MS13
ATOM  46337  CD  LYS M  79     262.528  95.130  11.706  1.00201.30      MS13
ATOM  46338  CE  LYS M  79     262.905  93.713  12.110  1.00201.30      MS13
ATOM  46339  NZ  LYS M  79     264.296  93.366  11.699  1.00201.30      MS13
ATOM  46340  C   LYS M  79     259.225  97.285  13.658  1.00 54.51      MS13
ATOM  46341  O   LYS M  79     258.651  96.358  14.233  1.00 54.51      MS13
ATOM  46342  N   ARG M  80     259.772  98.316  14.295  1.00 64.66      MS13
ATOM  46343  CA  ARG M  80     259.767  98.425  15.746  1.00 64.66      MS13
ATOM  46344  CB  ARG M  80     260.597  99.639  16.186  1.00127.26      MS13
ATOM  46345  CG  ARG M  80     260.587  99.888  17.687  1.00127.26      MS13
ATOM  46346  CD  ARG M  80     260.586 101.372  18.001  1.00127.26      MS13
ATOM  46347  NE  ARG M  80     260.134 101.621  19.366  1.00127.26      MS13
ATOM  46348  CZ  ARG M  80     259.691 102.794  19.809  1.00127.26      MS13
ATOM  46349  NH1 ARG M  80     259.638 103.840  18.992  1.00127.26      MS13
ATOM  46350  NH2 ARG M  80     259.295 102.922  21.069  1.00127.26      MS13
ATOM  46351  C   ARG M  80     258.364  98.521  16.346  1.00 64.66      MS13
ATOM  46352  O   ARG M  80     257.835  97.529  16.863  1.00 64.66      MS13
ATOM  46353  N   LEU M  81     257.763  99.710  16.276  1.00112.85      MS13
ATOM  46354  CA  LEU M  81     256.432  99.943  16.845  1.00112.85      MS13
ATOM  46355  CB  LEU M  81     256.018 101.410  16.667  1.00 49.56      MS13
ATOM  46356  CG  LEU M  81     255.580 101.897  15.296  1.00 49.56      MS13
ATOM  46357  CD1 LEU M  81     255.797 103.395  15.221  1.00 49.56      MS13
ATOM  46358  CD2 LEU M  81     256.380 101.213  14.231  1.00 49.56      MS13
ATOM  46359  C   LEU M  81     255.395  99.024  16.232  1.00112.85      MS13
ATOM  46360  O   LEU M  81     254.197  99.158  16.466  1.00112.85      MS13
ATOM  46361  N   MET M  82     255.885  98.084  15.443  1.00 47.35      MS13
ATOM  46362  CA  MET M  82     255.054  97.097  14.789  1.00 47.35      MS13
ATOM  46363  CB  MET M  82     255.389  97.038  13.306  1.00117.39      MS13
ATOM  46364  CG  MET M  82     254.702  95.911  12.583  1.00117.39      MS13
ATOM  46365  SD  MET M  82     255.248  95.841  10.895  1.00117.39      MS13
ATOM  46366  CE  MET M  82     254.386  97.233  10.228  1.00117.39      MS13
ATOM  46367  C   MET M  82     255.311  95.733  15.422  1.00 47.35      MS13
ATOM  46368  O   MET M  82     254.413  94.895  15.498  1.00 47.35      MS13
ATOM  46369  N   ASP M  83     256.548  95.513  15.863  1.00 78.73      MS13
ATOM  46370  CA  ASP M  83     256.911  94.257  16.503  1.00 78.73      MS13
ATOM  46371  CB  ASP M  83     258.414  94.019  16.402  1.00134.29      MS13
ATOM  46372  CG  ASP M  83     258.811  93.422  15.069  1.00134.29      MS13
ATOM  46373  OD1 ASP M  83     258.316  92.324  14.742  1.00134.29      MS13
ATOM  46374  OD2 ASP M  83     259.614  94.045  14.346  1.00134.29      MS13
ATOM  46375  C   ASP M  83     256.462  94.258  17.958  1.00 78.73      MS13
ATOM  46376  O   ASP M  83     256.549  93.247  18.652  1.00 78.73      MS13
ATOM  46377  N   ILE M  84     255.980  95.407  18.410  1.00 83.52      MS13
ATOM  46378  CA  ILE M  84     255.466  95.536  19.761  1.00 83.52      MS13
ATOM  46379  CB  ILE M  84     256.123  96.724  20.487  1.00 52.06      MS13
ATOM  46380  CG2 ILE M  84     257.521  96.913  19.943  1.00 52.06      MS13
ATOM  46381  CG1 ILE M  84     255.338  98.016  20.263  1.00 52.06      MS13
ATOM  46382  CD1 ILE M  84     255.948  99.231  20.940  1.00 52.06      MS13
ATOM  46383  C   ILE M  84     253.964  95.754  19.564  1.00 83.52      MS13
ATOM  46384  O   ILE M  84     253.545  96.408  18.605  1.00 83.52      MS13
ATOM  46385  N   GLY M  85     253.156  95.192  20.455  1.00 84.75      MS13
ATOM  46386  CA  GLY M  85     251.708  95.302  20.329  1.00 84.75      MS13
ATOM  46387  C   GLY M  85     251.079  96.641  19.978  1.00 84.75      MS13
ATOM  46388  O   GLY M  85     249.862  96.719  19.815  1.00 84.75      MS13
ATOM  46389  N   CYS M  86     251.896  97.682  19.852  1.00 54.16      MS13
ATOM  46390  CA  CYS M  86     251.418  99.028  19.550  1.00 54.16      MS13
ATOM  46391  CB  CYS M  86     252.576  99.903  19.084  1.00 97.36      MS13
ATOM  46392  SG  CYS M  86     252.026 101.515  18.515  1.00 97.36      MS13
ATOM  46393  C   CYS M  86     250.291  99.143  18.529  1.00 54.16      MS13
ATOM  46394  O   CYS M  86     250.319  98.495  17.477  1.00 54.16      MS13
ATOM  46395  N   TYR M  87     249.307  99.987  18.851  1.00 61.72      MS13
ATOM  46396  CA  TYR M  87     248.162 100.232  17.973  1.00 61.72      MS13
ATOM  46397  CB  TYR M  87     247.251 101.322  18.551  1.00106.66      MS13
ATOM  46398  CG  TYR M  87     246.182 101.817  17.585  1.00106.66      MS13
ATOM  46399  CD1 TYR M  87     245.089 101.016  17.245  1.00106.66      MS13
ATOM  46400  CE1 TYR M  87     244.105 101.465  16.351  1.00106.66      MS13
ATOM  46401  CD2 TYR M  87     246.268 103.083  17.004  1.00106.66      MS13
ATOM  46402  CE2 TYR M  87     245.290 103.542  16.108  1.00106.66      MS13
ATOM  46403  CZ  TYR M  87     244.211 102.727  15.787  1.00106.66      MS13
ATOM  46404  OH  TYR M  87     243.238 103.176  14.916  1.00106.66      MS13
ATOM  46405  C   TYR M  87     248.744 100.733  16.676  1.00 61.72      MS13
ATOM  46406  O   TYR M  87     248.663 100.079  15.638  1.00 61.72      MS13
ATOM  46407  N   ARG M  88     249.336 101.916  16.765  1.00 54.56      MS13
ATOM  46408  CA  ARG M  88     249.969 102.556  15.632  1.00 54.56      MS13
ATOM  46409  CB  ARG M  88     250.942 103.620  16.145  1.00 81.84      MS13
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ATOM  46410  CG  ARG M  88     251.671 104.395  15.075  1.00 81.84      MS13
ATOM  46411  CD  ARG M  88     251.672 105.876  15.392  1.00 81.84      MS13
ATOM  46412  NE  ARG M  88     252.965 106.484  15.110  1.00 81.84      MS13
ATOM  46413  CZ  ARG M  88     254.077 106.191  15.774  1.00 81.84      MS13
ATOM  46414  NH1 ARG M  88     254.043 105.300  16.757  1.00 81.84      MS13
ATOM  46415  NH2 ARG M  88     255.221 106.784  15.458  1.00 81.84      MS13
ATOM  46416  C   ARG M  88     250.689 101.499  14.797  1.00 54.56      MS13
ATOM  46417  O   ARG M  88     250.699 101.560  13.571  1.00 54.56      MS13
ATOM  46418  N   GLY M  89     251.277 100.516  15.465  1.00 47.35      MS13
ATOM  46419  CA  GLY M  89     251.962  99.468  14.735  1.00 47.35      MS13
ATOM  46420  C   GLY M  89     250.973  98.661  13.912  1.00 47.35      MS13
ATOM  46421  O   GLY M  89     251.170  98.440  12.718  1.00 47.35      MS13
ATOM  46422  N   LEU M  90     249.901  98.221  14.561  1.00 72.14      MS13
ATOM  46423  CA  LEU M  90     248.863  97.444  13.897  1.00 72.14      MS13
ATOM  46424  CB  LEU M  90     247.660  97.287  14.823  1.00126.89      MS13
ATOM  46425  CG  LEU M  90     247.979  96.702  16.198  1.00126.89      MS13
ATOM  46426  CD1 LEU M  90     246.735  96.729  17.062  1.00126.89      MS13
ATOM  46427  CD2 LEU M  90     248.504  95.283  16.042  1.00126.89      MS13
ATOM  46428  C   LEU M  90     248.431  98.149  12.623  1.00 72.14      MS13
ATOM  46429  O   LEU M  90     248.328  97.531  11.571  1.00 72.14      MS13
ATOM  46430  N   ARG M  91     248.178  99.449  12.728  1.00 44.01      MS13
ATOM  46431  CA  ARG M  91     247.762 100.239  11.581  1.00 44.01      MS13
ATOM  46432  CB  ARG M  91     247.665 101.713  11.970  1.00 77.60      MS13
ATOM  46433  CG  ARG M  91     246.668 101.966  13.064  1.00 77.60      MS13
ATOM  46434  CD  ARG M  91     245.295 101.472  12.652  1.00 77.60      MS13
ATOM  46435  NE  ARG M  91     244.642 102.365  11.696  1.00 77.60      MS13
ATOM  46436  CZ  ARG M  91     243.463 102.116  11.127  1.00 77.60      MS13
ATOM  46437  NH1 ARG M  91     242.807 100.994  11.410  1.00 77.60      MS13
ATOM  46438  NH2 ARG M  91     242.926 102.999  10.292  1.00 77.60      MS13
ATOM  46439  C   ARG M  91     248.736 100.069  10.418  1.00 44.01      MS13
ATOM  46440  O   ARG M  91     248.337 100.019   9.254  1.00 44.01      MS13
ATOM  46441  N   HIS M  92     250.022  99.992  10.726  1.00 55.47      MS13
ATOM  46442  CA  HIS M  92     250.987  99.809   9.667  1.00 55.47      MS13
ATOM  46443  CB  HIS M  92     252.405  99.932  10.207  1.00 51.40      MS13
ATOM  46444  CG  HIS M  92     252.985 101.298  10.046  1.00 51.40      MS13
ATOM  46445  CD2 HIS M  92     253.427 102.195  10.959  1.00 51.40      MS13
ATOM  46446  ND1 HIS M  92     253.154 101.890   8.812  1.00 51.40      MS13
ATOM  46447  CE1 HIS M  92     253.676 103.093   8.973  1.00 51.40      MS13
ATOM  46448  NE2 HIS M  92     253.851 103.303  10.266  1.00 51.40      MS13
ATOM  46449  C   HIS M  92     250.766  98.439   9.050  1.00 55.47      MS13
ATOM  46450  O   HIS M  92     250.805  98.299   7.834  1.00 55.47      MS13
ATOM  46451  N   ARG M  93     250.514  97.438   9.892  1.00 85.83      MS13
ATOM  46452  CA  ARG M  93     250.283  96.071   9.428  1.00 85.83      MS13
ATOM  46453  CB  ARG M  93     250.070  95.123  10.609  1.00154.63      MS13
ATOM  46454  CG  ARG M  93     251.283  94.906  11.477  1.00154.63      MS13
ATOM  46455  CD  ARG M  93     251.053  93.739  12.412  1.00154.63      MS13
ATOM  46456  NE  ARG M  93     252.229  93.451  13.223  1.00154.63      MS13
ATOM  46457  CZ  ARG M  93     252.344  92.392  14.017  1.00154.63      MS13
ATOM  46458  NH1 ARG M  93     251.351  91.516  14.106  1.00154.63      MS13
ATOM  46459  NH2 ARG M  93     253.451  92.211  14.724  1.00154.63      MS13
ATOM  46460  C   ARG M  93     249.070  95.979   8.518  1.00 85.83      MS13
ATOM  46461  O   ARG M  93     249.093  95.266   7.518  1.00 85.83      MS13
ATOM  46462  N   ARG M  94     248.007  96.692   8.881  1.00 52.70      MS13
ATOM  46463  CA  ARG M  94     246.773  96.693   8.107  1.00 52.70      MS13
ATOM  46464  CB  ARG M  94     245.608  97.220   8.955  1.00177.97      MS13
ATOM  46465  CG  ARG M  94     245.101  96.245  10.002  1.00177.97      MS13
ATOM  46466  CD  ARG M  94     244.590  94.983   9.340  1.00177.97      MS13
ATOM  46467  NE  ARG M  94     244.150  93.981  10.304  1.00177.97      MS13
ATOM  46468  CZ  ARG M  94     243.765  92.753   9.972  1.00177.97      MS13
ATOM  46469  NH1 ARG M  94     243.767  92.375   8.700  1.00177.97      MS13
ATOM  46470  NH2 ARG M  94     243.378  91.901  10.911  1.00177.97      MS13
ATOM  46471  C   ARG M  94     246.906  97.543   6.853  1.00 52.70      MS13
ATOM  46472  O   ARG M  94     246.099  97.428   5.934  1.00 52.70      MS13
ATOM  46473  N   GLY M  95     247.926  98.394   6.815  1.00 40.37      MS13
ATOM  46474  CA  GLY M  95     248.117  99.251   5.662  1.00 40.37      MS13
ATOM  46475  C   GLY M  95     247.045 100.323   5.628  1.00 40.37      MS13
ATOM  46476  O   GLY M  95     246.674 100.824   4.568  1.00 40.37      MS13
ATOM  46477  N   LEU M  96     246.536 100.667   6.805  1.00 40.86      MS13
ATOM  46478  CA  LEU M  96     245.509 101.690   6.944  1.00 40.86      MS13
ATOM  46479  CB  LEU M  96     244.396 101.176   7.842  1.00 30.44      MS13
ATOM  46480  CG  LEU M  96     243.350 100.276   7.188  1.00 30.44      MS13
ATOM  46481  CD1 LEU M  96     242.800  99.272   8.207  1.00 30.44      MS13
ATOM  46482  CD2 LEU M  96     242.252 101.168   6.608  1.00 30.44      MS13
ATOM  46483  C   LEU M  96     246.163 102.898   7.579  1.00 40.86      MS13
ATOM  46484  O   LEU M  96     247.091 102.746   8.365  1.00 40.86      MS13
ATOM  46485  N   PRO M  97     245.684 104.113   7.262  1.00 33.72      MS13
ATOM  46486  CD  PRO M  97     244.377 104.408   6.659  1.00 40.03      MS13
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ATOM  46487  CA  PRO M  97     246.272 105.330   7.835  1.00 33.72      MS13
ATOM  46488  CB  PRO M  97     245.213 106.399   7.563  1.00 40.03      MS13
ATOM  46489  CG  PRO M  97     243.954 105.625   7.436  1.00 40.03      MS13
ATOM  46490  C   PRO M  97     246.616 105.173   9.313  1.00 33.72      MS13
ATOM  46491  O   PRO M  97     245.917 104.479  10.066  1.00 33.72      MS13
ATOM  46492  N   VAL M  98     247.711 105.813   9.712  1.00 63.05      MS13
ATOM  46493  CA  VAL M  98     248.205 105.715  11.076  1.00 63.05      MS13
ATOM  46494  CB  VAL M  98     249.624 105.114  11.091  1.00146.44      MS13
ATOM  46495  CG1 VAL M  98     249.897 104.478  12.430  1.00146.44      MS13
ATOM  46496  CG2 VAL M  98     249.781 104.101   9.968  1.00146.44      MS13
ATOM  46497  C   VAL M  98     248.261 107.057  11.773  1.00 63.05      MS13
ATOM  46498  O   VAL M  98     249.097 107.274  12.643  1.00 63.05      MS13
ATOM  46499  N   ARG M  99     247.383 107.970  11.396  1.00 69.14      MS13
ATOM  46500  CA  ARG M  99     247.391 109.277  12.030  1.00 69.14      MS13
ATOM  46501  CB  ARG M  99     248.205 110.272  11.197  1.00 71.65      MS13
ATOM  46502  CG  ARG M  99     249.692 109.901  11.086  1.00 71.65      MS13
ATOM  46503  CD  ARG M  99     250.556 111.070  10.597  1.00 71.65      MS13
ATOM  46504  NE  ARG M  99     251.968 110.711  10.499  1.00 71.65      MS13
ATOM  46505  CZ  ARG M  99     252.911 111.516  10.023  1.00 71.65      MS13
ATOM  46506  NH1 ARG M  99     252.600 112.736   9.599  1.00 71.65      MS13
ATOM  46507  NH2 ARG M  99     254.165 111.095   9.965  1.00 71.65      MS13
ATOM  46508  C   ARG M  99     245.987 109.797  12.253  1.00 69.14      MS13
ATOM  46509  O   ARG M  99     245.713 110.991  12.074  1.00 69.14      MS13
ATOM  46510  N   GLY M 100     245.107 108.875  12.640  1.00 61.90      MS13
ATOM  46511  CA  GLY M 100     243.722 109.203  12.921  1.00 61.90      MS13
ATOM  46512  C   GLY M 100     242.968 109.983  11.865  1.00 61.90      MS13
ATOM  46513  O   GLY M 100     242.622 111.149  12.084  1.00 61.90      MS13
ATOM  46514  N   GLN M 101     242.714 109.352  10.722  1.00 59.13      MS13
ATOM  46515  CA  GLN M 101     241.969 110.005   9.655  1.00 59.13      MS13
ATOM  46516  CB  GLN M 101     242.834 110.156   8.411  1.00 64.41      MS13
ATOM  46517  CG  GLN M 101     244.169 110.822   8.665  1.00 64.41      MS13
ATOM  46518  CD  GLN M 101     245.322 109.848   8.572  1.00 64.41      MS13
ATOM  46519  OE1 GLN M 101     245.281 108.767   9.161  1.00 64.41      MS13
ATOM  46520  NE2 GLN M 101     246.361 110.226   7.832  1.00 64.41      MS13
ATOM  46521  C   GLN M 101     240.760 109.136   9.353  1.00 59.13      MS13
ATOM  46522  O   GLN M 101     240.770 107.939   9.654  1.00 59.13      MS13
ATOM  46523  N   ARG M 102     239.723 109.727   8.766  1.00 69.98      MS13
ATOM  46524  CA  ARG M 102     238.507 108.979   8.453  1.00 69.98      MS13
ATOM  46525  CB  ARG M 102     237.401 109.920   7.971  1.00 98.13      MS13
ATOM  46526  CG  ARG M 102     237.829 110.866   6.870  1.00 98.13      MS13
ATOM  46527  CD  ARG M 102     236.641 111.447   6.108  1.00 98.13      MS13
ATOM  46528  NE  ARG M 102     235.381 111.430   6.848  1.00 98.13      MS13
ATOM  46529  CZ  ARG M 102     234.551 110.392   6.886  1.00 98.13      MS13
ATOM  46530  NH1 ARG M 102     234.844 109.278   6.229  1.00 98.13      MS13
ATOM  46531  NH2 ARG M 102     233.418 110.475   7.568  1.00 98.13      MS13
ATOM  46532  C   ARG M 102     238.716 107.895   7.412  1.00 69.98      MS13
ATOM  46533  O   ARG M 102     238.890 108.182   6.231  1.00 69.98      MS13
ATOM  46534  N   THR M 103     238.668 106.645   7.850  1.00 36.29      MS13
ATOM  46535  CA  THR M 103     238.863 105.531   6.946  1.00 36.29      MS13
ATOM  46536  CB  THR M 103     239.400 104.337   7.709  1.00 58.27      MS13
ATOM  46537  OG1 THR M 103     238.329 103.685   8.399  1.00 58.27      MS13
ATOM  46538  CG2 THR M 103     240.413 104.802   8.721  1.00 58.27      MS13
ATOM  46539  C   THR M 103     237.582 105.100   6.215  1.00 36.29      MS13
ATOM  46540  O   THR M 103     237.571 104.095   5.479  1.00 36.29      MS13
ATOM  46541  N   ARG M 104     236.499 105.847   6.407  1.00 46.96      MS13
ATOM  46542  CA  ARG M 104     235.241 105.483   5.771  1.00 46.96      MS13
ATOM  46543  CB  ARG M 104     234.061 106.134   6.478  1.00 72.68      MS13
ATOM  46544  CG  ARG M 104     232.715 105.670   5.958  1.00 72.68      MS13
ATOM  46545  CD  ARG M 104     231.577 106.324   6.727  1.00 72.68      MS13
ATOM  46546  NE  ARG M 104     230.288 105.694   6.459  1.00 72.68      MS13
ATOM  46547  CZ  ARG M 104     229.136 106.097   6.986  1.00 72.68      MS13
ATOM  46548  NH1 ARG M 104     229.104 107.137   7.812  1.00 72.68      MS13
ATOM  46549  NH2 ARG M 104     228.016 105.446   6.702  1.00 72.68      MS13
ATOM  46550  C   ARG M 104     235.259 105.937   4.349  1.00 46.96      MS13
ATOM  46551  O   ARG M 104     234.481 105.466   3.527  1.00 46.96      MS13
ATOM  46552  N   THR M 105     236.158 106.858   4.056  1.00 43.43      MS13
ATOM  46553  CA  THR M 105     236.238 107.369   2.709  1.00 43.43      MS13
ATOM  46554  CB  THR M 105     235.347 108.641   2.568  1.00 29.36      MS13
ATOM  46555  OG1 THR M 105     235.639 109.548   3.628  1.00 29.36      MS13
ATOM  46556  CG2 THR M 105     233.881 108.287   2.662  1.00 29.36      MS13
ATOM  46557  C   THR M 105     237.678 107.654   2.274  1.00 43.43      MS13
ATOM  46558  O   THR M 105     238.558 106.790   2.393  1.00 43.43      MS13
ATOM  46559  N   ASN M 106     237.902 108.861   1.761  1.00 71.53      MS13
ATOM  46560  CA  ASN M 106     239.210 109.281   1.285  1.00 71.53      MS13
ATOM  46561  CB  ASN M 106     239.296 110.801   1.248  1.00 86.28      MS13
ATOM  46562  CG  ASN M 106     237.949 111.455   1.318  1.00 86.28      MS13
ATOM  46563  OD1 ASN M 106     237.106 111.270   0.440  1.00 86.28      MS13
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ATOM  46564  ND2 ASN M 106     237.729 112.228   2.372  1.00 86.28       MS13
ATOM  46565  C   ASN M 106     240.335 108.753   2.154  1.00 71.53       MS13
ATOM  46566  O   ASN M 106     240.559 109.232   3.272  1.00 71.53       MS13
ATOM  46567  N   ALA M 107     241.052 107.774   1.626  1.00 38.67       MS13
ATOM  46568  CA  ALA M 107     242.163 107.178   2.339  1.00 38.67       MS13
ATOM  46569  CB  ALA M 107     241.647 106.331   3.488  1.00 64.72       MS13
ATOM  46570  C   ALA M 107     242.826 106.309   1.310  1.00 38.67       MS13
ATOM  46571  O   ALA M 107     243.508 105.331   1.629  1.00 38.67       MS13
ATOM  46572  N   ARG M 108     242.606 106.673   0.056  1.00 68.86       MS13
ATOM  46573  CA  ARG M 108     243.136 105.906  -1.050  1.00 68.86       MS13
ATOM  46574  CB  ARG M 108     242.578 106.445  -2.368  1.00 51.59       MS13
ATOM  46575  CG  ARG M 108     241.046 106.419  -2.446  1.00 51.59       MS13
ATOM  46576  CD  ARG M 108     240.415 105.177  -1.773  1.00 51.59       MS13
ATOM  46577  NE  ARG M 108     241.011 103.914  -2.204  1.00 51.59       MS13
ATOM  46578  CZ  ARG M 108     240.554 102.714  -1.857  1.00 51.59       MS13
ATOM  46579  NH1 ARG M 108     239.491 102.605  -1.072  1.00 51.59       MS13
ATOM  46580  NH2 ARG M 108     241.155 101.621  -2.296  1.00 51.59       MS13
ATOM  46581  C   ARG M 108     244.647 105.886  -1.088  1.00 68.86       MS13
ATOM  46582  O   ARG M 108     245.267 104.857  -1.369  1.00 68.86       MS13
ATOM  46583  N   THR M 109     245.245 107.024  -0.787  1.00 39.03       MS13
ATOM  46584  CA  THR M 109     246.688 107.105  -0.814  1.00 39.03       MS13
ATOM  46585  CB  THR M 109     247.151 108.466  -0.307  1.00 39.10       MS13
ATOM  46586  OG1 THR M 109     248.553 108.619  -0.536  1.00 39.10       MS13
ATOM  46587  CG2 THR M 109     246.886 108.571   1.152  1.00 39.10       MS13
ATOM  46588  C   THR M 109     247.303 105.993   0.035  1.00 39.03       MS13
ATOM  46589  O   THR M 109     248.447 105.602  -0.165  1.00 39.03       MS13
ATOM  46590  N   ARG M 110     246.538 105.462   0.976  1.00 43.79       MS13
ATOM  46591  CA  ARG M 110     247.067 104.405   1.823  1.00 43.79       MS13
ATOM  46592  CB  ARG M 110     246.761 104.704   3.293  1.00 61.21       MS13
ATOM  46593  CG  ARG M 110     247.805 104.162   4.250  1.00 61.21       MS13
ATOM  46594  CD  ARG M 110     248.845 105.208   4.612  1.00 61.21       MS13
ATOM  46595  NE  ARG M 110     250.147 104.608   4.879  1.00 61.21       MS13
ATOM  46596  CZ  ARG M 110     250.357 103.577   5.694  1.00 61.21       MS13
ATOM  46597  NH1 ARG M 110     249.351 103.006   6.346  1.00 61.21       MS13
ATOM  46598  NH2 ARG M 110     251.583 103.104   5.856  1.00 61.21       MS13
ATOM  46599  C   ARG M 110     246.476 103.057   1.427  1.00 43.79       MS13
ATOM  46600  O   ARG M 110     247.190 102.060   1.334  1.00 43.79       MS13
ATOM  46601  N   LYS M 111     245.169 103.032   1.193  1.00 68.15       MS13
ATOM  46602  CA  LYS M 111     244.501 101.799   0.806  1.00 68.15       MS13
ATOM  46603  CB  LYS M 111     242.984 101.976   0.837  1.00 63.07       MS13
ATOM  46604  CG  LYS M 111     242.348 101.968   2.211  1.00 63.07       MS13
ATOM  46605  CD  LYS M 111     240.871 101.579   2.088  1.00 63.07       MS13
ATOM  46606  CE  LYS M 111     240.035 102.175   3.210  1.00 63.07       MS13
ATOM  46607  NZ  LYS M 111     238.572 101.956   3.027  1.00 63.07       MS13
ATOM  46608  C   LYS M 111     244.911 101.323  -0.586  1.00 68.15       MS13
ATOM  46609  O   LYS M 111     244.962 100.120  -0.849  1.00 68.15       MS13
ATOM  46610  N   GLY M 112     245.187 102.265  -1.481  1.00 63.54       MS13
ATOM  46611  CA  GLY M 112     245.579 101.904  -2.832  1.00 63.54       MS13
ATOM  46612  C   GLY M 112     244.525 102.252  -3.869  1.00 63.54       MS13
ATOM  46613  O   GLY M 112     244.081 103.394  -3.941  1.00 63.54       MS13
ATOM  46614  N   PRO M 113     244.132 101.296  -4.719  1.00 76.33       MS13
ATOM  46615  CD  PRO M 113     244.996 100.181  -5.129  1.00134.42       MS13
ATOM  46616  CA  PRO M 113     243.116 101.547  -5.747  1.00 76.33       MS13
ATOM  46617  CB  PRO M 113     243.602 100.708  -6.929  1.00134.42       MS13
ATOM  46618  CG  PRO M 113     245.062 100.410  -6.602  1.00134.42       MS13
ATOM  46619  C   PRO M 113     241.746 101.087  -5.250  1.00 76.33       MS13
ATOM  46620  O   PRO M 113     241.655 100.149  -4.453  1.00 76.33       MS13
ATOM  46621  N   ARG M 114     240.681 101.730  -5.720  1.00 69.67       MS13
ATOM  46622  CA  ARG M 114     239.339 101.357  -5.283  1.00 69.67       MS13
ATOM  46623  CB  ARG M 114     238.282 102.277  -5.890  1.00 89.27       MS13
ATOM  46624  CG  ARG M 114     238.273 103.675  -5.319  1.00 89.27       MS13
ATOM  46625  CD  ARG M 114     236.976 104.381  -5.657  1.00 89.27       MS13
ATOM  46626  NE  ARG M 114     237.036 105.801  -5.337  1.00 89.27       MS13
ATOM  46627  CZ  ARG M 114     237.129 106.288  -4.106  1.00 89.27       MS13
ATOM  46628  NH1 ARG M 114     237.169 105.471  -3.061  1.00 89.27       MS13
ATOM  46629  NH2 ARG M 114     237.196 107.599  -3.922  1.00 89.27       MS13
ATOM  46630  C   ARG M 114     238.986  99.925  -5.619  1.00 69.67       MS13
ATOM  46631  O   ARG M 114     238.937  99.540  -6.782  1.00 69.67       MS13
ATOM  46632  N   LYS M 115     238.731  99.138  -4.587  1.00 55.69       MS13
ATOM  46633  CA  LYS M 115     238.366  97.742  -4.765  1.00 55.69       MS13
ATOM  46634  CB  LYS M 115     239.008  96.922  -3.653  1.00119.49       MS13
ATOM  46635  CG  LYS M 115     240.449  97.310  -3.395  1.00119.49       MS13
ATOM  46636  CD  LYS M 115     241.027  96.533  -2.233  1.00119.49       MS13
ATOM  46637  CE  LYS M 115     241.044  95.037  -2.521  1.00119.49       MS13
ATOM  46638  NZ  LYS M 115     241.862  94.692  -3.724  1.00119.49       MS13
ATOM  46639  C   LYS M 115     236.836  97.595  -4.725  1.00 55.69       MS13
ATOM  46640  O   LYS M 115     236.292  96.927  -3.842  1.00 55.69       MS13
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ATOM  46641  N   THR M 116     236.148  98.212  -5.685  1.00 48.27      MS13
ATOM  46642  CA  THR M 116     234.688  98.167  -5.730  1.00 48.27      MS13
ATOM  46643  CB  THR M 116     234.158  98.730  -7.065  1.00 71.71      MS13
ATOM  46644  OG1 THR M 116     234.541 100.106  -7.185  1.00 71.71      MS13
ATOM  46645  CG2 THR M 116     232.643  98.644  -7.120  1.00 71.71      MS13
ATOM  46646  C   THR M 116     234.117  96.770  -5.504  1.00 48.27      MS13
ATOM  46647  O   THR M 116     234.690  95.774  -5.940  1.00 48.27      MS13
ATOM  46648  N   VAL M 117     232.983  96.713  -4.808  1.00 62.44      MS13
ATOM  46649  CA  VAL M 117     232.313  95.455  -4.488  1.00 62.44      MS13
ATOM  46650  CB  VAL M 117     232.158  95.280  -2.968  1.00 39.55      MS13
ATOM  46651  CG1 VAL M 117     231.897  93.828  -2.640  1.00 39.55      MS13
ATOM  46652  CG2 VAL M 117     233.380  95.786  -2.253  1.00 39.55      MS13
ATOM  46653  C   VAL M 117     230.908  95.427  -5.077  1.00 62.44      MS13
ATOM  46654  O   VAL M 117     230.494  96.348  -5.777  1.00 62.44      MS13
ATOM  46655  N   ALA M 118     230.175  94.362  -4.779  1.00 77.09      MS13
ATOM  46656  CA  ALA M 118     228.808  94.226  -5.250  1.00 77.09      MS13
ATOM  46657  CB  ALA M 118     228.479  92.755  -5.463  1.00122.07      MS13
ATOM  46658  C   ALA M 118     227.878  94.836  -4.195  1.00 77.09      MS13
ATOM  46659  O   ALA M 118     226.908  94.210  -3.770  1.00 77.09      MS13
ATOM  46660  N   GLY M 119     228.181  96.066  -3.784  1.00106.91      MS13
ATOM  46661  CA  GLY M 119     227.393  96.753  -2.769  1.00106.91      MS13
ATOM  46662  C   GLY M 119     225.877  96.756  -2.898  1.00106.91      MS13
ATOM  46663  O   GLY M 119     225.319  96.325  -3.907  1.00106.91      MS13
ATOM  46664  N   LYS M 120     225.213  97.248  -1.853  1.00201.30      MS13
ATOM  46665  CA  LYS M 120     223.755  97.333  -1.820  1.00201.30      MS13
ATOM  46666  CB  LYS M 120     223.280  97.669  -0.406  1.00142.05      MS13
ATOM  46667  CG  LYS M 120     221.773  97.637  -0.220  1.00142.05      MS13
ATOM  46668  CD  LYS M 120     221.411  97.806   1.249  1.00142.05      MS13
ATOM  46669  CE  LYS M 120     219.908  97.783   1.477  1.00142.05      MS13
ATOM  46670  NZ  LYS M 120     219.568  97.860   2.926  1.00142.05      MS13
ATOM  46671  C   LYS M 120     223.321  98.420  -2.795  1.00201.30      MS13
ATOM  46672  O   LYS M 120     224.164  99.147  -3.325  1.00201.30      MS13
ATOM  46673  N   LYS M 121     222.015  98.547  -3.025  1.00 91.80      MS13
ATOM  46674  CA  LYS M 121     221.526  99.544  -3.978  1.00 91.80      MS13
ATOM  46675  CB  LYS M 121     221.273  98.874  -5.338  1.00190.99      MS13
ATOM  46676  CG  LYS M 121     222.486  98.155  -5.925  1.00190.99      MS13
ATOM  46677  CD  LYS M 121     222.119  97.353  -7.167  1.00190.99      MS13
ATOM  46678  CE  LYS M 121     223.294  96.514  -7.649  1.00190.99      MS13
ATOM  46679  NZ  LYS M 121     222.926  95.658  -8.809  1.00190.99      MS13
ATOM  46680  C   LYS M 121     220.273 100.316  -3.562  1.00 91.80      MS13
ATOM  46681  O   LYS M 121     220.365 101.370  -2.920  1.00 91.80      MS13
ATOM  46682  N   LYS M 122     219.110  99.793  -3.957  1.00201.30      MS13
ATOM  46683  CA  LYS M 122     217.828 100.426  -3.659  1.00201.30      MS13
ATOM  46684  CB  LYS M 122     216.661  99.557  -4.145  1.00161.93      MS13
ATOM  46685  CG  LYS M 122     215.270 100.175  -3.933  1.00161.93      MS13
ATOM  46686  CD  LYS M 122     215.109 101.553  -4.594  1.00161.93      MS13
ATOM  46687  CE  LYS M 122     215.651 102.684  -3.721  1.00161.93      MS13
ATOM  46688  NZ  LYS M 122     215.484 104.035  -4.331  1.00161.93      MS13
ATOM  46689  C   LYS M 122     217.669 100.735  -2.179  1.00201.30      MS13
ATOM  46690  O   LYS M 122     217.271  99.889  -1.374  1.00201.30      MS13
ATOM  46691  N   ALA M 123     217.986 101.981  -1.857  1.00201.30      MS13
ATOM  46692  CA  ALA M 123     217.941 102.530  -0.513  1.00201.30      MS13
ATOM  46693  CB  ALA M 123     218.500 101.524   0.505  1.00111.16      MS13
ATOM  46694  C   ALA M 123     218.879 103.720  -0.658  1.00201.30      MS13
ATOM  46695  O   ALA M 123     219.939 103.761  -0.030  1.00201.30      MS13
ATOM  46696  N   PRO M 124     218.493 104.705  -1.496  1.00200.62      MS13
ATOM  46697  CD  PRO M 124     217.066 104.950  -1.799  1.00 99.66      MS13
ATOM  46698  CA  PRO M 124     219.278 105.915  -1.763  1.00200.62      MS13
ATOM  46699  CB  PRO M 124     218.278 107.017  -1.457  1.00 99.66      MS13
ATOM  46700  CG  PRO M 124     217.031 106.451  -2.131  1.00 99.66      MS13
ATOM  46701  C   PRO M 124     220.589 106.011  -0.975  1.00200.62      MS13
ATOM  46702  O   PRO M 124     220.678 106.696   0.049  1.00200.62      MS13
ATOM  46703  N   ARG M 125     221.603 105.309  -1.483  1.00201.30      MS13
ATOM  46704  CA  ARG M 125     222.929 105.246  -0.869  1.00201.30      MS13
ATOM  46705  CB  ARG M 125     223.739 104.098  -1.504  1.00145.11      MS13
ATOM  46706  CG  ARG M 125     223.751 104.084  -3.032  1.00145.11      MS13
ATOM  46707  CD  ARG M 125     224.584 105.226  -3.607  1.00145.11      MS13
ATOM  46708  NE  ARG M 125     224.565 105.259  -5.069  1.00145.11      MS13
ATOM  46709  CZ  ARG M 125     223.555 105.716  -5.802  1.00145.11      MS13
ATOM  46710  NH1 ARG M 125     222.462 106.193  -5.220  1.00145.11      MS13
ATOM  46711  NH2 ARG M 125     223.639 105.693  -7.124  1.00145.11      MS13
ATOM  46712  C   ARG M 125     223.743 106.543  -0.904  1.00201.30      MS13
ATOM  46713  O   ARG M 125     224.975 106.510  -0.841  1.00201.30      MS13
ATOM  46714  N   LYS M 126     223.058 107.680  -1.004  1.00 97.69      MS13
ATOM  46715  CA  LYS M 126     223.733 108.973  -1.025  1.00 97.69      MS13
ATOM  46716  CB  LYS M 126     222.898 110.027  -1.760  1.00 98.13      MS13
ATOM  46717  CG  LYS M 126     222.734 109.812  -3.262  1.00 98.13      MS13
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ATOM  46718  CD  LYS M 126     221.891 110.931  -3.870  1.00 98.13      MS13
ATOM  46719  CE  LYS M 126     221.908 110.919  -5.394  1.00 98.13      MS13
ATOM  46720  NZ  LYS M 126     221.104 112.046  -5.955  1.00 98.13      MS13
ATOM  46721  C   LYS M 126     223.907 109.390   0.418  1.00 97.69      MS13
ATOM  46722  O   LYS M 126     225.053 109.674   0.800  1.00 97.69      MS13
ATOM  46723  OXT LYS M 126     222.893 109.428   1.145  1.00 98.13      MS13
TER   46723      LYS M 126                                              MS13
ATOM  46724  CB  ALA N   2     216.065 118.549  27.681  1.00 38.89      NS14
ATOM  46725  C   ALA N   2     216.402 117.379  29.865  1.00 57.42      NS14
ATOM  46726  O   ALA N   2     215.180 117.476  30.042  1.00 57.42      NS14
ATOM  46727  N   ALA N   2     218.048 117.105  28.061  1.00 57.42      NS14
ATOM  46728  CA  ALA N   2     217.095 118.059  28.695  1.00 57.42      NS14
ATOM  46729  N   ARG N   3     217.207 116.676  30.651  1.00 79.94      NS14
ATOM  46730  CA  ARG N   3     216.726 115.989  31.833  1.00 79.94      NS14
ATOM  46731  CB  ARG N   3     217.248 114.556  31.862  1.00 82.08      NS14
ATOM  46732  CG  ARG N   3     216.769 113.737  30.704  1.00 82.08      NS14
ATOM  46733  CD  ARG N   3     217.916 113.267  29.859  1.00 82.08      NS14
ATOM  46734  NE  ARG N   3     218.840 112.433  30.620  1.00 82.08      NS14
ATOM  46735  CZ  ARG N   3     219.832 111.738  30.071  1.00 82.08      NS14
ATOM  46736  NH1 ARG N   3     220.021 111.778  28.757  1.00 82.08      NS14
ATOM  46737  NH2 ARG N   3     220.639 111.008  30.828  1.00 82.08      NS14
ATOM  46738  C   ARG N   3     217.249 116.741  33.045  1.00 79.94      NS14
ATOM  46739  O   ARG N   3     218.433 117.072  33.101  1.00 79.94      NS14
ATOM  46740  N   LYS N   4     216.376 117.036  34.006  1.00104.82      NS14
ATOM  46741  CA  LYS N   4     216.830 117.721  35.204  1.00104.82      NS14
ATOM  46742  CB  LYS N   4     215.788 117.628  36.323  1.00201.11      NS14
ATOM  46743  CG  LYS N   4     214.612 118.588  36.189  1.00201.11      NS14
ATOM  46744  CD  LYS N   4     213.741 118.546  37.443  1.00201.11      NS14
ATOM  46745  CE  LYS N   4     212.646 119.604  37.421  1.00201.11      NS14
ATOM  46746  NZ  LYS N   4     211.806 119.561  38.655  1.00201.11      NS14
ATOM  46747  C   LYS N   4     218.085 116.956  35.598  1.00104.82      NS14
ATOM  46748  O   LYS N   4     219.093 117.536  36.013  1.00104.82      NS14
ATOM  46749  N   ALA N   5     218.010 115.640  35.433  1.00 40.35      NS14
ATOM  46750  CA  ALA N   5     219.126 114.760  35.736  1.00 40.35      NS14
ATOM  46751  CB  ALA N   5     218.809 113.353  35.269  1.00 65.34      NS14
ATOM  46752  C   ALA N   5     220.390 115.273  35.045  1.00 40.35      NS14
ATOM  46753  O   ALA N   5     221.442 115.408  35.670  1.00 40.35      NS14
ATOM  46754  N   LEU N   6     220.276 115.553  33.749  1.00106.03      NS14
ATOM  46755  CA  LEU N   6     221.402 116.056  32.973  1.00106.03      NS14
ATOM  46756  CB  LEU N   6     221.298 115.632  31.508  1.00120.51      NS14
ATOM  46757  CG  LEU N   6     221.909 114.286  31.127  1.00120.51      NS14
ATOM  46758  CD1 LEU N   6     221.824 114.121  29.621  1.00120.51      NS14
ATOM  46759  CD2 LEU N   6     223.365 114.219  31.577  1.00120.51      NS14
ATOM  46760  C   LEU N   6     221.518 117.563  33.033  1.00106.03      NS14
ATOM  46761  O   LEU N   6     222.112 118.178  32.150  1.00106.03      NS14
ATOM  46762  N   ILE N   7     220.941 118.168  34.062  1.00 81.26      NS14
ATOM  46763  CA  ILE N   7     221.041 119.608  34.191  1.00 81.26      NS14
ATOM  46764  CB  ILE N   7     219.717 120.301  33.921  1.00 37.24      NS14
ATOM  46765  CG2 ILE N   7     219.972 121.782  33.665  1.00 37.24      NS14
ATOM  46766  CG1 ILE N   7     219.047 119.682  32.697  1.00 37.24      NS14
ATOM  46767  CD1 ILE N   7     217.693 120.280  32.367  1.00 37.24      NS14
ATOM  46768  C   ILE N   7     221.525 119.987  35.579  1.00 81.26      NS14
ATOM  46769  O   ILE N   7     221.042 120.937  36.199  1.00 81.26      NS14
ATOM  46770  N   GLU N   8     222.485 119.217  36.068  1.00171.67      NS14
ATOM  46771  CA  GLU N   8     223.066 119.484  37.363  1.00171.67      NS14
ATOM  46772  CB  GLU N   8     223.637 118.205  37.967  1.00105.21      NS14
ATOM  46773  CG  GLU N   8     225.061 117.896  37.516  1.00105.21      NS14
ATOM  46774  CD  GLU N   8     225.173 117.656  36.029  1.00105.21      NS14
ATOM  46775  OE1 GLU N   8     224.708 116.595  35.568  1.00105.21      NS14
ATOM  46776  OE2 GLU N   8     225.724 118.528  35.326  1.00105.21      NS14
ATOM  46777  C   GLU N   8     224.197 120.461  37.070  1.00171.67      NS14
ATOM  46778  O   GLU N   8     224.799 121.022  37.977  1.00171.67      NS14
ATOM  46779  N   LYS N   9     224.482 120.647  35.784  1.00109.74      NS14
ATOM  46780  CA  LYS N   9     225.538 121.550  35.351  1.00109.74      NS14
ATOM  46781  CB  LYS N   9     225.354 121.899  33.875  1.00 81.55      NS14
ATOM  46782  CG  LYS N   9     226.508 122.686  33.260  1.00 81.55      NS14
ATOM  46783  CD  LYS N   9     226.537 124.159  33.675  1.00 81.55      NS14
ATOM  46784  CE  LYS N   9     227.750 124.869  33.071  1.00 81.55      NS14
ATOM  46785  NZ  LYS N   9     227.758 126.337  33.317  1.00 81.55      NS14
ATOM  46786  C   LYS N   9     225.497 122.819  36.189  1.00109.74      NS14
ATOM  46787  O   LYS N   9     226.525 123.295  36.675  1.00109.74      NS14
ATOM  46788  N   ALA N  10     224.292 123.353  36.356  1.00193.50      NS14
ATOM  46789  CA  ALA N  10     224.077 124.569  37.126  1.00193.50      NS14
ATOM  46790  CB  ALA N  10     222.580 124.824  37.271  1.00115.76      NS14
ATOM  46791  C   ALA N  10     224.737 124.520  38.504  1.00193.50      NS14
ATOM  46792  O   ALA N  10     225.103 125.558  39.059  1.00193.50      NS14
ATOM  46793  N   LYS N  11     224.889 123.317  39.053  1.00201.30      NS14
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ATOM  46794  CA  LYS N  11     225.501 123.149  40.369  1.00201.30      NS14
ATOM  46795  CB  LYS N  11     225.308 121.714  40.886  1.00102.36      NS14
ATOM  46796  CG  LYS N  11     226.262 120.675  40.279  1.00102.36      NS14
ATOM  46797  CD  LYS N  11     225.998 119.275  40.830  1.00102.36      NS14
ATOM  46798  CE  LYS N  11     227.008 118.273  40.295  1.00102.36      NS14
ATOM  46799  NZ  LYS N  11     226.753 116.904  40.809  1.00102.36      NS14
ATOM  46800  C   LYS N  11     226.989 123.463  40.298  1.00201.30      NS14
ATOM  46801  O   LYS N  11     227.684 123.454  41.316  1.00201.30      NS14
ATOM  46802  N   ARG N  12     227.469 123.742  39.089  1.00128.14      NS14
ATOM  46803  CA  ARG N  12     228.877 124.051  38.875  1.00128.14      NS14
ATOM  46804  CB  ARG N  12     229.323 125.205  39.783  1.00201.30      NS14
ATOM  46805  CG  ARG N  12     230.109 126.304  39.076  1.00201.30      NS14
ATOM  46806  CD  ARG N  12     231.371 125.773  38.415  1.00201.30      NS14
ATOM  46807  NE  ARG N  12     232.126 126.838  37.762  1.00201.30      NS14
ATOM  46808  CZ  ARG N  12     233.272 126.654  37.115  1.00201.30      NS14
ATOM  46809  NH1 ARG N  12     233.800 125.442  37.030  1.00201.30      NS14
ATOM  46810  NH2 ARG N  12     233.894 127.683  36.556  1.00201.30      NS14
ATOM  46811  C   ARG N  12     229.671 122.793  39.200  1.00128.14      NS14
ATOM  46812  O   ARG N  12     229.597 121.812  38.462  1.00128.14      NS14
ATOM  46813  N   THR N  13     230.412 122.825  40.307  1.00117.48      NS14
ATOM  46814  CA  THR N  13     231.213 121.682  40.741  1.00117.48      NS14
ATOM  46815  CB  THR N  13     230.391 120.748  41.659  1.00104.83      NS14
ATOM  46816  OG1 THR N  13     229.896 121.490  42.781  1.00104.83      NS14
ATOM  46817  CG2 THR N  13     231.252 119.599  42.159  1.00104.83      NS14
ATOM  46818  C   THR N  13     231.698 120.888  39.531  1.00117.48      NS14
ATOM  46819  O   THR N  13     231.296 119.745  39.314  1.00117.48      NS14
ATOM  46820  N   PRO N  14     232.574 121.493  38.722  1.00111.08      NS14
ATOM  46821  CD  PRO N  14     233.231 122.795  38.935  1.00156.81      NS14
ATOM  46822  CA  PRO N  14     233.107 120.838  37.529  1.00111.08      NS14
ATOM  46823  CB  PRO N  14     233.942 121.938  36.889  1.00156.81      NS14
ATOM  46824  CG  PRO N  14     234.471 122.667  38.080  1.00156.81      NS14
ATOM  46825  C   PRO N  14     233.930 119.590  37.815  1.00111.08      NS14
ATOM  46826  O   PRO N  14     233.737 118.560  37.170  1.00111.08      NS14
ATOM  46827  N   LYS N  15     234.834 119.693  38.787  1.00 87.68      NS14
ATOM  46828  CA  LYS N  15     235.737 118.603  39.164  1.00 87.68      NS14
ATOM  46829  CB  LYS N  15     235.098 117.237  38.894  1.00131.43      NS14
ATOM  46830  CG  LYS N  15     235.844 116.059  39.477  1.00131.43      NS14
ATOM  46831  CD  LYS N  15     235.037 114.787  39.280  1.00131.43      NS14
ATOM  46832  CE  LYS N  15     235.688 113.583  39.951  1.00131.43      NS14
ATOM  46833  NZ  LYS N  15     237.029 113.255  39.385  1.00131.43      NS14
ATOM  46834  C   LYS N  15     236.970 118.808  38.287  1.00 87.68      NS14
ATOM  46835  O   LYS N  15     238.064 118.325  38.578  1.00 87.68      NS14
ATOM  46836  N   PHE N  16     236.750 119.552  37.210  1.00 58.37      NS14
ATOM  46837  CA  PHE N  16     237.761 119.926  36.234  1.00 58.37      NS14
ATOM  46838  CB  PHE N  16     238.063 118.789  35.281  1.00 57.10      NS14
ATOM  46839  CG  PHE N  16     238.506 117.533  35.953  1.00 57.10      NS14
ATOM  46840  CD1 PHE N  16     237.610 116.493  36.165  1.00 57.10      NS14
ATOM  46841  CD2 PHE N  16     239.836 117.355  36.311  1.00 57.10      NS14
ATOM  46842  CE1 PHE N  16     238.036 115.287  36.712  1.00 57.10      NS14
ATOM  46843  CE2 PHE N  16     240.270 116.154  36.859  1.00 57.10      NS14
ATOM  46844  CZ  PHE N  16     239.368 115.118  37.056  1.00 57.10      NS14
ATOM  46845  C   PHE N  16     237.078 121.036  35.460  1.00 58.37      NS14
ATOM  46846  O   PHE N  16     236.020 120.815  34.879  1.00 58.37      NS14
ATOM  46847  N   LYS N  17     237.671 122.223  35.446  1.00 92.09      NS14
ATOM  46848  CA  LYS N  17     237.061 123.349  34.757  1.00 92.09      NS14
ATOM  46849  CB  LYS N  17     237.933 124.599  34.936  1.00146.53      NS14
ATOM  46850  CG  LYS N  17     239.234 124.609  34.154  1.00146.53      NS14
ATOM  46851  CD  LYS N  17     239.054 125.265  32.789  1.00146.53      NS14
ATOM  46852  CE  LYS N  17     238.652 126.739  32.909  1.00146.53      NS14
ATOM  46853  NZ  LYS N  17     237.338 126.959  33.592  1.00146.53      NS14
ATOM  46854  C   LYS N  17     236.755 123.092  33.276  1.00 92.09      NS14
ATOM  46855  O   LYS N  17     236.068 123.892  32.635  1.00 92.09      NS14
ATOM  46856  N   VAL N  18     237.248 121.980  32.730  1.00111.00      NS14
ATOM  46857  CA  VAL N  18     236.979 121.655  31.328  1.00111.00      NS14
ATOM  46858  CB  VAL N  18     238.222 121.080  30.589  1.00 46.53      NS14
ATOM  46859  CG1 VAL N  18     239.258 122.170  30.389  1.00 46.53      NS14
ATOM  46860  CG2 VAL N  18     238.796 119.895  31.358  1.00 46.53      NS14
ATOM  46861  C   VAL N  18     235.832 120.663  31.181  1.00111.00      NS14
ATOM  46862  O   VAL N  18     235.931 119.673  30.457  1.00111.00      NS14
ATOM  46863  N   ARG N  19     234.746 120.930  31.891  1.00 79.46      NS14
ATOM  46864  CA  ARG N  19     233.565 120.091  31.807  1.00 79.46      NS14
ATOM  46865  CB  ARG N  19     233.552 119.028  32.912  1.00 48.59      NS14
ATOM  46866  CG  ARG N  19     234.577 117.918  32.748  1.00 48.59      NS14
ATOM  46867  CD  ARG N  19     234.317 116.798  33.755  1.00 48.59      NS14
ATOM  46868  NE  ARG N  19     235.262 115.685  33.625  1.00 48.59      NS14
ATOM  46869  CZ  ARG N  19     235.152 114.505  34.247  1.00 48.59      NS14
ATOM  46870  NH1 ARG N  19     234.130 114.252  35.063  1.00 48.59      NS14
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ATOM  46871  NH2 ARG N  19     236.069 113.565  34.046  1.00 48.59      NS14
ATOM  46872  C   ARG N  19     232.320 120.975  31.890  1.00 79.46      NS14
ATOM  46873  O   ARG N  19     231.202 120.490  31.746  1.00 79.46      NS14
ATOM  46874  N   ALA N  20     232.519 122.273  32.109  1.00 71.78      NS14
ATOM  46875  CA  ALA N  20     231.405 123.220  32.183  1.00 71.78      NS14
ATOM  46876  CB  ALA N  20     231.902 124.569  32.678  1.00133.31      NS14
ATOM  46877  C   ALA N  20     230.813 123.364  30.780  1.00 71.78      NS14
ATOM  46878  O   ALA N  20     231.563 123.322  29.802  1.00 71.78      NS14
ATOM  46879  N   TYR N  21     229.492 123.536  30.662  1.00 56.33      NS14
ATOM  46880  CA  TYR N  21     228.911 123.657  29.326  1.00 56.33      NS14
ATOM  46881  CB  TYR N  21     228.755 122.268  28.702  1.00 73.46      NS14
ATOM  46882  CG  TYR N  21     227.776 121.322  29.358  1.00 73.46      NS14
ATOM  46883  CD1 TYR N  21     228.213 120.348  30.247  1.00 73.46      NS14
ATOM  46884  CE1 TYR N  21     227.334 119.378  30.742  1.00 73.46      NS14
ATOM  46885  CD2 TYR N  21     226.430 121.317  28.990  1.00 73.46      NS14
ATOM  46886  CE2 TYR N  21     225.545 120.360  29.476  1.00 73.46      NS14
ATOM  46887  CZ  TYR N  21     226.003 119.391  30.345  1.00 73.46      NS14
ATOM  46888  OH  TYR N  21     225.143 118.417  30.789  1.00 73.46      NS14
ATOM  46889  C   TYR N  21     227.643 124.456  29.027  1.00 56.33      NS14
ATOM  46890  O   TYR N  21     226.636 123.906  28.594  1.00 56.33      NS14
ATOM  46891  N   THR N  22     227.702 125.761  29.225  1.00 83.10      NS14
ATOM  46892  CA  THR N  22     226.568 126.621  28.914  1.00 83.10      NS14
ATOM  46893  CB  THR N  22     226.619 127.014  27.436  1.00 87.63      NS14
ATOM  46894  OG1 THR N  22     227.034 125.882  26.659  1.00 87.63      NS14
ATOM  46895  CG2 THR N  22     227.586 128.167  27.226  1.00 87.63      NS14
ATOM  46896  C   THR N  22     225.124 126.175  29.226  1.00 83.10      NS14
ATOM  46897  O   THR N  22     224.576 126.541  30.273  1.00 83.10      NS14
ATOM  46898  N   ARG N  23     224.509 125.408  28.320  1.00 60.96      NS14
ATOM  46899  CA  ARG N  23     223.108 124.975  28.474  1.00 60.96      NS14
ATOM  46900  CB  ARG N  23     222.862 124.319  29.832  1.00 57.13      NS14
ATOM  46901  CG  ARG N  23     223.275 122.873  29.945  1.00 57.13      NS14
ATOM  46902  CD  ARG N  23     222.264 121.948  29.312  1.00 57.13      NS14
ATOM  46903  NE  ARG N  23     222.630 120.555  29.550  1.00 57.13      NS14
ATOM  46904  CZ  ARG N  23     222.128 119.524  28.878  1.00 57.13      NS14
ATOM  46905  NH1 ARG N  23     221.229 119.728  27.916  1.00 57.13      NS14
ATOM  46906  NH2 ARG N  23     222.530 118.290  29.166  1.00 57.13      NS14
ATOM  46907  C   ARG N  23     222.214 126.214  28.364  1.00 60.96      NS14
ATOM  46908  O   ARG N  23     222.687 127.348  28.504  1.00 60.96      NS14
ATOM  46909  N   CYS N  24     220.923 126.012  28.121  1.00 82.34      NS14
ATOM  46910  CA  CYS N  24     220.024 127.153  27.997  1.00 82.34      NS14
ATOM  46911  CB  CYS N  24     218.959 126.890  26.927  1.00 33.37      NS14
ATOM  46912  SG  CYS N  24     218.222 128.401  26.249  1.00 33.37      NS14
ATOM  46913  C   CYS N  24     219.356 127.483  29.328  1.00 82.34      NS14
ATOM  46914  O   CYS N  24     218.833 126.606  30.021  1.00 82.34      NS14
ATOM  46915  N   VAL N  25     219.389 128.762  29.682  1.00 80.38      NS14
ATOM  46916  CA  VAL N  25     218.787 129.232  30.917  1.00 80.38      NS14
ATOM  46917  CB  VAL N  25     219.225 130.683  31.220  1.00 84.67      NS14
ATOM  46918  CG1 VAL N  25     218.671 131.639  30.169  1.00 84.67      NS14
ATOM  46919  CG2 VAL N  25     218.767 131.075  32.599  1.00 84.67      NS14
ATOM  46920  C   VAL N  25     217.270 129.176  30.772  1.00 80.38      NS14
ATOM  46921  O   VAL N  25     216.525 129.519  31.691  1.00 80.38      NS14
ATOM  46922  N   ARG N  26     216.822 128.731  29.603  1.00 80.54      NS14
ATOM  46923  CA  ARG N  26     215.401 128.626  29.314  1.00 80.54      NS14
ATOM  46924  CB  ARG N  26     215.013 129.594  28.212  1.00 59.93      NS14
ATOM  46925  CG  ARG N  26     213.619 129.361  27.730  1.00 59.93      NS14
ATOM  46926  CD  ARG N  26     212.990 130.649  27.314  1.00 59.93      NS14
ATOM  46927  NE  ARG N  26     211.903 130.400  26.384  1.00 59.93      NS14
ATOM  46928  CZ  ARG N  26     211.124 131.348  25.882  1.00 59.93      NS14
ATOM  46929  NH1 ARG N  26     211.311 132.616  26.230  1.00 59.93      NS14
ATOM  46930  NH2 ARG N  26     210.172 131.026  25.017  1.00 59.93      NS14
ATOM  46931  C   ARG N  26     214.967 127.231  28.907  1.00 80.54      NS14
ATOM  46932  O   ARG N  26     214.326 126.532  29.684  1.00 80.54      NS14
ATOM  46933  N   CYS N  27     215.303 126.837  27.681  1.00 70.19      NS14
ATOM  46934  CA  CYS N  27     214.943 125.514  27.170  1.00 70.19      NS14
ATOM  46935  CB  CYS N  27     214.922 125.519  25.639  1.00 33.60      NS14
ATOM  46936  SG  CYS N  27     216.565 125.399  24.903  1.00 33.60      NS14
ATOM  46937  C   CYS N  27     215.940 124.466  27.669  1.00 70.19      NS14
ATOM  46938  O   CYS N  27     215.723 123.262  27.528  1.00 70.19      NS14
ATOM  46939  N   GLY N  28     217.036 124.931  28.256  1.00 75.09      NS14
ATOM  46940  CA  GLY N  28     218.030 124.013  28.772  1.00 75.09      NS14
ATOM  46941  C   GLY N  28     218.660 123.232  27.648  1.00 75.09      NS14
ATOM  46942  O   GLY N  28     219.081 122.086  27.821  1.00 75.09      NS14
ATOM  46943  N   ARG N  29     218.707 123.868  26.485  1.00117.56      NS14
ATOM  46944  CA  ARG N  29     219.286 123.272  25.295  1.00117.56      NS14
ATOM  46945  CB  ARG N  29     219.247 124.285  24.145  1.00 73.63      NS14
ATOM  46946  CG  ARG N  29     219.607 123.724  22.793  1.00 73.63      NS14
ATOM  46947  CD  ARG N  29     218.550 122.766  22.286  1.00 73.63      NS14
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ATOM  46948  NE  ARG N  29     218.974 122.129  21.043  1.00 73.63      NS14
ATOM  46949  CZ  ARG N  29     219.243 122.779  19.912  1.00 73.63      NS14
ATOM  46950  NH1 ARG N  29     219.132 124.097  19.845  1.00 73.63      NS14
ATOM  46951  NH2 ARG N  29     219.629 122.098  18.845  1.00 73.63      NS14
ATOM  46952  C   ARG N  29     220.728 122.901  25.610  1.00117.56      NS14
ATOM  46953  O   ARG N  29     221.021 122.321  26.656  1.00117.56      NS14
ATOM  46954  N   ALA N  30     221.626 123.253  24.699  1.00 86.47      NS14
ATOM  46955  CA  ALA N  30     223.042 122.978  24.857  1.00 86.47      NS14
ATOM  46956  CB  ALA N  30     223.258 121.550  25.360  1.00 46.06      NS14
ATOM  46957  C   ALA N  30     223.725 123.147  23.520  1.00 86.47      NS14
ATOM  46958  O   ALA N  30     224.833 123.673  23.444  1.00 86.47      NS14
ATOM  46959  N   ARG N  31     223.033 122.718  22.470  1.00 72.10      NS14
ATOM  46960  CA  ARG N  31     223.569 122.742  21.120  1.00 72.10      NS14
ATOM  46961  CB  ARG N  31     222.711 121.885  20.193  1.00 49.10      NS14
ATOM  46962  CG  ARG N  31     223.534 121.043  19.211  1.00 49.10      NS14
ATOM  46963  CD  ARG N  31     223.608 119.585  19.631  1.00 49.10      NS14
ATOM  46964  NE  ARG N  31     224.848 118.963  19.190  1.00 49.10      NS14
ATOM  46965  CZ  ARG N  31     225.077 117.656  19.221  1.00 49.10      NS14
ATOM  46966  NH1 ARG N  31     224.138 116.826  19.662  1.00 49.10      NS14
ATOM  46967  NH2 ARG N  31     226.257 117.182  18.842  1.00 49.10      NS14
ATOM  46968  C   ARG N  31     223.815 124.074  20.448  1.00 72.10      NS14
ATOM  46969  O   ARG N  31     224.656 124.151  19.556  1.00 72.10      NS14
ATOM  46970  N   SER N  32     223.096 125.122  20.814  1.00 25.77      NS14
ATOM  46971  CA  SER N  32     223.390 126.394  20.160  1.00 25.77      NS14
ATOM  46972  CB  SER N  32     222.514 126.595  18.920  1.00 77.60      NS14
ATOM  46973  OG  SER N  32     221.167 126.803  19.282  1.00 77.60      NS14
ATOM  46974  C   SER N  32     223.271 127.592  21.093  1.00 25.77      NS14
ATOM  46975  O   SER N  32     222.873 128.684  20.675  1.00 25.77      NS14
ATOM  46976  N   VAL N  33     223.640 127.370  22.355  1.00 82.75      NS14
ATOM  46977  CA  VAL N  33     223.616 128.391  23.406  1.00 82.75      NS14
ATOM  46978  CB  VAL N  33     224.208 127.825  24.701  1.00 85.50      NS14
ATOM  46979  CG1 VAL N  33     223.241 126.849  25.327  1.00 85.50      NS14
ATOM  46980  CG2 VAL N  33     225.521 127.110  24.391  1.00 85.50      NS14
ATOM  46981  C   VAL N  33     224.421 129.618  22.997  1.00 82.75      NS14
ATOM  46982  O   VAL N  33     225.602 129.510  22.683  1.00 82.75      NS14
ATOM  46983  N   TYR N  34     223.789 130.786  23.032  1.00 51.87      NS14
ATOM  46984  CA  TYR N  34     224.449 132.021  22.622  1.00 51.87      NS14
ATOM  46985  CB  TYR N  34     223.464 132.879  21.826  1.00 85.84      NS14
ATOM  46986  CG  TYR N  34     223.601 132.793  20.322  1.00 85.84      NS14
ATOM  46987  CD1 TYR N  34     223.465 131.580  19.649  1.00 85.84      NS14
ATOM  46988  CE1 TYR N  34     223.540 131.518  18.252  1.00 85.84      NS14
ATOM  46989  CD2 TYR N  34     223.821 133.942  19.566  1.00 85.84      NS14
ATOM  46990  CE2 TYR N  34     223.899 133.893  18.176  1.00 85.84      NS14
ATOM  46991  CZ  TYR N  34     223.755 132.684  17.524  1.00 85.84      NS14
ATOM  46992  OH  TYR N  34     223.808 132.657  16.148  1.00 85.84      NS14
ATOM  46993  C   TYR N  34     225.122 132.909  23.681  1.00 51.87      NS14
ATOM  46994  O   TYR N  34     224.877 134.114  23.701  1.00 51.87      NS14
ATOM  46995  N   ARG N  35     225.975 132.337  24.534  1.00 78.72      NS14
ATOM  46996  CA  ARG N  35     226.702 133.106  25.563  1.00 78.72      NS14
ATOM  46997  CB  ARG N  35     228.088 133.497  25.054  1.00 98.27      NS14
ATOM  46998  CG  ARG N  35     229.221 132.551  25.369  1.00 98.27      NS14
ATOM  46999  CD  ARG N  35     230.513 133.234  24.960  1.00 98.27      NS14
ATOM  47000  NE  ARG N  35     231.692 132.390  25.093  1.00 98.27      NS14
ATOM  47001  CZ  ARG N  35     232.900 132.751  24.671  1.00 98.27      NS14
ATOM  47002  NH1 ARG N  35     233.066 133.936  24.098  1.00 98.27      NS14
ATOM  47003  NH2 ARG N  35     233.936 131.932  24.812  1.00 98.27      NS14
ATOM  47004  C   ARG N  35     226.032 134.396  26.029  1.00 78.72      NS14
ATOM  47005  O   ARG N  35     225.283 134.418  27.005  1.00 78.72      NS14
ATOM  47006  N   PHE N  36     226.357 135.475  25.321  1.00 37.24      NS14
ATOM  47007  CA  PHE N  36     225.840 136.808  25.582  1.00 37.24      NS14
ATOM  47008  CB  PHE N  36     225.969 137.653  24.324  1.00 29.41      NS14
ATOM  47009  CG  PHE N  36     225.383 139.037  24.432  1.00 29.41      NS14
ATOM  47010  CD1 PHE N  36     224.022 139.251  24.281  1.00 29.41      NS14
ATOM  47011  CD2 PHE N  36     226.213 140.145  24.590  1.00 29.41      NS14
ATOM  47012  CE1 PHE N  36     223.499 140.556  24.275  1.00 29.41      NS14
ATOM  47013  CE2 PHE N  36     225.697 141.453  24.583  1.00 29.41      NS14
ATOM  47014  CZ  PHE N  36     224.340 141.655  24.423  1.00 29.41      NS14
ATOM  47015  C   PHE N  36     224.408 136.832  26.056  1.00 37.24      NS14
ATOM  47016  O   PHE N  36     223.965 137.851  26.563  1.00 37.24      NS14
ATOM  47017  N   PHE N  37     223.682 135.728  25.892  1.00 52.17      NS14
ATOM  47018  CA  PHE N  37     222.294 135.656  26.327  1.00 52.17      NS14
ATOM  47019  CB  PHE N  37     221.367 135.474  25.153  1.00 38.93      NS14
ATOM  47020  CG  PHE N  37     221.262 136.653  24.288  1.00 38.93      NS14
ATOM  47021  CD1 PHE N  37     221.905 136.683  23.070  1.00 38.93      NS14
ATOM  47022  CD2 PHE N  37     220.451 137.710  24.647  1.00 38.93      NS14
ATOM  47023  CE1 PHE N  37     221.731 137.751  22.204  1.00 38.93      NS14
ATOM  47024  CE2 PHE N  37     220.266 138.791  23.787  1.00 38.93      NS14
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ATOM  47025  CZ  PHE N  37     220.905 138.811  22.560  1.00 38.93      NS14
ATOM  47026  C   PHE N  37     221.992 134.525  27.277  1.00 52.17      NS14
ATOM  47027  O   PHE N  37     221.095 134.636  28.110  1.00 52.17      NS14
ATOM  47028  N   GLY N  38     222.718 133.422  27.138  1.00 49.12      NS14
ATOM  47029  CA  GLY N  38     222.455 132.265  27.977  1.00 49.12      NS14
ATOM  47030  C   GLY N  38     221.354 131.478  27.289  1.00 49.12      NS14
ATOM  47031  O   GLY N  38     220.949 130.402  27.729  1.00 49.12      NS14
ATOM  47032  N   LEU N  39     220.899 132.031  26.170  1.00 94.06      NS14
ATOM  47033  CA  LEU N  39     219.835 131.449  25.370  1.00 94.06      NS14
ATOM  47034  CB  LEU N  39     218.917 132.566  24.896  1.00 54.09      NS14
ATOM  47035  CG  LEU N  39     218.177 133.232  26.050  1.00 54.09      NS14
ATOM  47036  CD1 LEU N  39     217.360 134.432  25.539  1.00 54.09      NS14
ATOM  47037  CD2 LEU N  39     217.291 132.174  26.725  1.00 54.09      NS14
ATOM  47038  C   LEU N  39     220.297 130.627  24.168  1.00 94.06      NS14
ATOM  47039  O   LEU N  39     221.407 130.804  23.666  1.00 94.06      NS14
ATOM  47040  N   CYS N  40     219.426 129.729  23.712  1.00 99.51      NS14
ATOM  47041  CA  CYS N  40     219.721 128.879  22.567  1.00 99.51      NS14
ATOM  47042  CB  CYS N  40     219.063 127.518  22.735  1.00 44.89      NS14
ATOM  47043  SG  CYS N  40     217.296 127.610  22.538  1.00 44.89      NS14
ATOM  47044  C   CYS N  40     219.165 129.559  21.324  1.00 99.51      NS14
ATOM  47045  O   CYS N  40     218.283 130.418  21.423  1.00 99.51      NS14
ATOM  47046  N   ARG N  41     219.672 129.156  20.159  1.00 35.36      NS14
ATOM  47047  CA  ARG N  41     219.267 129.743  18.875  1.00 35.36      NS14
ATOM  47048  CB  ARG N  41     219.785 128.887  17.705  1.00 75.88      NS14
ATOM  47049  CG  ARG N  41     219.010 127.580  17.433  1.00 75.88      NS14
ATOM  47050  CD  ARG N  41     218.346 127.610  16.048  1.00 75.88      NS14
ATOM  47051  NE  ARG N  41     217.711 126.345  15.684  1.00 75.88      NS14
ATOM  47052  CZ  ARG N  41     218.363 125.198  15.525  1.00 75.88      NS14
ATOM  47053  NH1 ARG N  41     219.679 125.147  15.698  1.00 75.88      NS14
ATOM  47054  NH2 ARG N  41     217.693 124.101  15.192  1.00 75.88      NS14
ATOM  47055  C   ARG N  41     217.762 129.906  18.754  1.00 35.36      NS14
ATOM  47056  O   ARG N  41     217.266 130.884  18.186  1.00 35.36      NS14
ATOM  47057  N   ILE N  42     217.043 128.933  19.296  1.00 43.09      NS14
ATOM  47058  CA  ILE N  42     215.599 128.941  19.237  1.00 43.09      NS14
ATOM  47059  CB  ILE N  42     215.046 127.574  19.636  1.00 35.02      NS14
ATOM  47060  CG2 ILE N  42     213.538 127.548  19.486  1.00 35.02      NS14
ATOM  47061  CG1 ILE N  42     215.652 126.509  18.733  1.00 35.02      NS14
ATOM  47062  CD1 ILE N  42     215.073 125.134  18.943  1.00 35.02      NS14
ATOM  47063  C   ILE N  42     215.036 129.999  20.159  1.00 43.09      NS14
ATOM  47064  O   ILE N  42     214.315 130.909  19.732  1.00 43.09      NS14
ATOM  47065  N   CYS N  43     215.389 129.883  21.429  1.00 52.78      NS14
ATOM  47066  CA  CYS N  43     214.910 130.805  22.434  1.00 52.78      NS14
ATOM  47067  CB  CYS N  43     215.504 130.386  23.758  1.00 23.71      NS14
ATOM  47068  SG  CYS N  43     214.840 128.774  24.112  1.00 23.71      NS14
ATOM  47069  C   CYS N  43     215.153 132.279  22.137  1.00 52.78      NS14
ATOM  47070  O   CYS N  43     214.249 133.110  22.285  1.00 52.78      NS14
ATOM  47071  N   LEU N  44     216.360 132.603  21.693  1.00 45.17      NS14
ATOM  47072  CA  LEU N  44     216.684 133.984  21.379  1.00 45.17      NS14
ATOM  47073  CB  LEU N  44     218.175 134.106  21.015  1.00 50.90      NS14
ATOM  47074  CG  LEU N  44     218.695 134.422  19.609  1.00 50.90      NS14
ATOM  47075  CD1 LEU N  44     218.292 135.826  19.142  1.00 50.90      NS14
ATOM  47076  CD2 LEU N  44     220.210 134.296  19.659  1.00 50.90      NS14
ATOM  47077  C   LEU N  44     215.793 134.541  20.268  1.00 45.17      NS14
ATOM  47078  O   LEU N  44     215.550 135.740  20.226  1.00 45.17      NS14
ATOM  47079  N   ARG N  45     215.301 133.683  19.377  1.00 44.24      NS14
ATOM  47080  CA  ARG N  45     214.433 134.157  18.301  1.00 44.24      NS14
ATOM  47081  CB  ARG N  45     214.466 133.222  17.090  1.00 41.07      NS14
ATOM  47082  CG  ARG N  45     213.859 133.849  15.821  1.00 41.07      NS14
ATOM  47083  CD  ARG N  45     214.071 132.972  14.573  1.00 41.07      NS14
ATOM  47084  NE  ARG N  45     213.037 131.949  14.419  1.00 41.07      NS14
ATOM  47085  CZ  ARG N  45     211.888 132.125  13.767  1.00 41.07      NS14
ATOM  47086  NH1 ARG N  45     211.610 133.289  13.190  1.00 41.07      NS14
ATOM  47087  NH2 ARG N  45     211.011 131.129  13.701  1.00 41.07      NS14
ATOM  47088  C   ARG N  45     213.011 134.255  18.809  1.00 44.24      NS14
ATOM  47089  O   ARG N  45     212.267 135.151  18.412  1.00 44.24      NS14
ATOM  47090  N   GLU N  46     212.638 133.330  19.690  1.00 86.80      NS14
ATOM  47091  CA  GLU N  46     211.299 133.338  20.258  1.00 86.80      NS14
ATOM  47092  CB  GLU N  46     211.060 132.089  21.114  1.00124.33      NS14
ATOM  47093  CG  GLU N  46     211.229 130.773  20.351  1.00124.33      NS14
ATOM  47094  CD  GLU N  46     210.578 129.579  21.048  1.00124.33      NS14
ATOM  47095  OE1 GLU N  46     210.766 129.427  22.275  1.00124.33      NS14
ATOM  47096  OE2 GLU N  46     209.887 128.787  20.364  1.00124.33      NS14
ATOM  47097  C   GLU N  46     211.143 134.597  21.101  1.00 86.80      NS14
ATOM  47098  O   GLU N  46     210.151 135.312  20.972  1.00 86.80      NS14
ATOM  47099  N   LEU N  47     212.132 134.875  21.952  1.00 34.12      NS14
ATOM  47100  CA  LEU N  47     212.099 136.068  22.801  1.00 34.12      NS14
ATOM  47101  CB  LEU N  47     213.182 135.987  23.875  1.00 46.17      NS14
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ATOM  47102  CG  LEU N  47     212.872 134.971  24.976  1.00 46.17      NS14
ATOM  47103  CD1 LEU N  47     214.113 134.659  25.793  1.00 46.17      NS14
ATOM  47104  CD2 LEU N  47     211.774 135.521  25.854  1.00 46.17      NS14
ATOM  47105  C   LEU N  47     212.281 137.342  21.993  1.00 34.12      NS14
ATOM  47106  O   LEU N  47     211.581 138.329  22.205  1.00 34.12      NS14
ATOM  47107  N   ALA N  48     213.221 137.316  21.059  1.00 50.32      NS14
ATOM  47108  CA  ALA N  48     213.478 138.481  20.227  1.00 50.32      NS14
ATOM  47109  CB  ALA N  48     214.537 138.166  19.182  1.00  8.61      NS14
ATOM  47110  C   ALA N  48     212.206 138.938  19.545  1.00 50.32      NS14
ATOM  47111  O   ALA N  48     211.949 140.137  19.438  1.00 50.32      NS14
ATOM  47112  N   HIS N  49     211.408 137.987  19.082  1.00 57.61      NS14
ATOM  47113  CA  HIS N  49     210.173 138.346  18.407  1.00 57.61      NS14
ATOM  47114  CB  HIS N  49     209.481 137.096  17.850  1.00 81.13      NS14
ATOM  47115  CG  HIS N  49     210.116 136.558  16.604  1.00 81.13      NS14
ATOM  47116  CD2 HIS N  49     210.475 135.300  16.256  1.00 81.13      NS14
ATOM  47117  ND1 HIS N  49     210.442 137.360  15.532  1.00 81.13      NS14
ATOM  47118  CE1 HIS N  49     210.979 136.620  14.579  1.00 81.13      NS14
ATOM  47119  NE2 HIS N  49     211.011 135.366  14.993  1.00 81.13      NS14
ATOM  47120  C   HIS N  49     209.234 139.101  19.343  1.00 57.61      NS14
ATOM  47121  O   HIS N  49     208.506 140.010  18.917  1.00 57.61      NS14
ATOM  47122  N   LYS N  50     209.267 138.727  20.621  1.00 78.52      NS14
ATOM  47123  CA  LYS N  50     208.420 139.352  21.629  1.00 78.52      NS14
ATOM  47124  CB  LYS N  50     208.358 138.484  22.879  1.00 75.90      NS14
ATOM  47125  CG  LYS N  50     207.642 137.164  22.699  1.00 75.90      NS14
ATOM  47126  CD  LYS N  50     207.497 136.473  24.047  1.00 75.90      NS14
ATOM  47127  CE  LYS N  50     206.731 135.166  23.954  1.00 75.90      NS14
ATOM  47128  NZ  LYS N  50     206.583 134.530  25.292  1.00 75.90      NS14
ATOM  47129  C   LYS N  50     208.897 140.745  22.016  1.00 78.52      NS14
ATOM  47130  O   LYS N  50     208.210 141.733  21.775  1.00 78.52      NS14
ATOM  47131  N   GLY N  51     210.071 140.819  22.625  1.00 58.69      NS14
ATOM  47132  CA  GLY N  51     210.600 142.105  23.034  1.00 58.69      NS14
ATOM  47133  C   GLY N  51     211.468 141.929  24.257  1.00 58.69      NS14
ATOM  47134  O   GLY N  51     212.214 142.819  24.653  1.00 58.69      NS14
ATOM  47135  N   GLN N  52     211.365 140.751  24.852  1.00 73.16      NS14
ATOM  47136  CA  GLN N  52     212.128 140.402  26.040  1.00 73.16      NS14
ATOM  47137  CB  GLN N  52     211.992 138.897  26.279  1.00 63.65      NS14
ATOM  47138  CG  GLN N  52     210.591 138.365  25.974  1.00 63.65      NS14
ATOM  47139  CD  GLN N  52     209.598 138.611  27.088  1.00 63.65      NS14
ATOM  47140  OE1 GLN N  52     209.570 137.880  28.082  1.00 63.65      NS14
ATOM  47141  NE2 GLN N  52     208.778 139.647  26.933  1.00 63.65      NS14
ATOM  47142  C   GLN N  52     213.612 140.791  25.926  1.00 73.16      NS14
ATOM  47143  O   GLN N  52     214.258 141.095  26.931  1.00 73.16      NS14
ATOM  47144  N   LEU N  53     214.145 140.775  24.704  1.00 49.88      NS14
ATOM  47145  CA  LEU N  53     215.545 141.125  24.456  1.00 49.88      NS14
ATOM  47146  CB  LEU N  53     216.159 140.187  23.417  1.00 82.30      NS14
ATOM  47147  CG  LEU N  53     215.942 138.683  23.622  1.00 82.30      NS14
ATOM  47148  CD1 LEU N  53     216.843 137.922  22.666  1.00 82.30      NS14
ATOM  47149  CD2 LEU N  53     216.248 138.282  25.054  1.00 82.30      NS14
ATOM  47150  C   LEU N  53     215.572 142.548  23.936  1.00 49.88      NS14
ATOM  47151  O   LEU N  53     215.297 142.785  22.761  1.00 49.88      NS14
ATOM  47152  N   PRO N  54     215.912 143.513  24.815  1.00 53.76      NS14
ATOM  47153  CD  PRO N  54     216.353 143.255  26.201  1.00 62.98      NS14
ATOM  47154  CA  PRO N  54     215.983 144.950  24.507  1.00 53.76      NS14
ATOM  47155  CB  PRO N  54     216.284 145.582  25.863  1.00 62.98      NS14
ATOM  47156  CG  PRO N  54     217.104 144.524  26.545  1.00 62.98      NS14
ATOM  47157  C   PRO N  54     216.998 145.336  23.460  1.00 53.76      NS14
ATOM  47158  O   PRO N  54     218.098 144.800  23.428  1.00 53.76      NS14
ATOM  47159  N   GLY N  55     216.612 146.274  22.604  1.00 93.18      NS14
ATOM  47160  CA  GLY N  55     217.503 146.736  21.559  1.00 93.18      NS14
ATOM  47161  C   GLY N  55     217.828 145.670  20.534  1.00 93.18      NS14
ATOM  47162  O   GLY N  55     218.508 145.946  19.544  1.00 93.18      NS14
ATOM  47163  N   VAL N  56     217.355 144.449  20.773  1.00 54.54      NS14
ATOM  47164  CA  VAL N  56     217.589 143.344  19.850  1.00 54.54      NS14
ATOM  47165  CB  VAL N  56     217.535 141.982  20.562  1.00 46.74      NS14
ATOM  47166  CG1 VAL N  56     217.821 140.879  19.571  1.00 46.74      NS14
ATOM  47167  CG2 VAL N  56     218.544 141.940  21.690  1.00 46.74      NS14
ATOM  47168  C   VAL N  56     216.520 143.380  18.765  1.00 54.54      NS14
ATOM  47169  O   VAL N  56     215.561 142.613  18.777  1.00 54.54      NS14
ATOM  47170  N   ARG N  57     216.695 144.303  17.833  1.00 74.32      NS14
ATOM  47171  CA  ARG N  57     215.780 144.480  16.724  1.00 74.32      NS14
ATOM  47172  CB  ARG N  57     215.958 145.894  16.185  1.00116.09      NS14
ATOM  47173  CG  ARG N  57     214.885 146.377  15.265  1.00116.09      NS14
ATOM  47174  CD  ARG N  57     215.073 147.858  15.042  1.00116.09      NS14
ATOM  47175  NE  ARG N  57     214.039 148.420  14.183  1.00116.09      NS14
ATOM  47176  CZ  ARG N  57     213.884 149.722  13.958  1.00116.09      NS14
ATOM  47177  NH1 ARG N  57     214.698 150.599  14.532  1.00116.09      NS14
ATOM  47178  NH2 ARG N  57     212.913 150.150  13.160  1.00116.09      NS14
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ATOM  47179  C   ARG N  57     216.146 143.439  15.663  1.00 74.32      NS14
ATOM  47180  O   ARG N  57     217.165 142.746  15.777  1.00 74.32      NS14
ATOM  47181  N   LYS N  58     215.311 143.305  14.642  1.00 57.57      NS14
ATOM  47182  CA  LYS N  58     215.605 142.354  13.579  1.00 57.57      NS14
ATOM  47183  CB  LYS N  58     214.334 141.963  12.803  1.00 72.55      NS14
ATOM  47184  CG  LYS N  58     213.512 140.834  13.427  1.00 72.55      NS14
ATOM  47185  CD  LYS N  58     213.257 139.656  12.460  1.00 72.55      NS14
ATOM  47186  CE  LYS N  58     212.209 139.947  11.386  1.00 72.55      NS14
ATOM  47187  NZ  LYS N  58     212.746 140.704  10.230  1.00 72.55      NS14
ATOM  47188  C   LYS N  58     216.601 142.996  12.626  1.00 57.57      NS14
ATOM  47189  O   LYS N  58     216.376 144.096  12.105  1.00 57.57      NS14
ATOM  47190  N   ALA N  59     217.705 142.294  12.406  1.00 66.03      NS14
ATOM  47191  CA  ALA N  59     218.752 142.760  11.513  1.00 66.03      NS14
ATOM  47192  CB  ALA N  59     219.952 141.835  11.615  1.00 71.49      NS14
ATOM  47193  C   ALA N  59     218.252 142.821  10.074  1.00 66.03      NS14
ATOM  47194  O   ALA N  59     217.538 141.932   9.615  1.00 66.03      NS14
ATOM  47195  N   SER N  60     218.634 143.872   9.364  1.00 74.78      NS14
ATOM  47196  CA  SER N  60     218.224 144.044   7.978  1.00 74.78      NS14
ATOM  47197  CB  SER N  60     216.751 144.448   7.909  1.00 89.58      NS14
ATOM  47198  OG  SER N  60     216.412 144.900   6.608  1.00 89.58      NS14
ATOM  47199  C   SER N  60     219.065 145.129   7.329  1.00 74.78      NS14
ATOM  47200  O   SER N  60     219.274 146.186   7.928  1.00 74.78      NS14
ATOM  47201  N   TRP N  61     219.538 144.874   6.108  1.00 92.57      NS14
ATOM  47202  CA  TRP N  61     220.357 145.845   5.390  1.00 92.57      NS14
ATOM  47203  CB  TRP N  61     221.656 146.067   6.138  1.00 61.90      NS14
ATOM  47204  CG  TRP N  61     222.582 144.918   6.067  1.00 61.90      NS14
ATOM  47205  CD2 TRP N  61     222.513 143.706   6.825  1.00 61.90      NS14
ATOM  47206  CE2 TRP N  61     223.620 142.919   6.454  1.00 61.90      NS14
ATOM  47207  CE3 TRP N  61     221.625 143.208   7.783  1.00 61.90      NS14
ATOM  47208  CD1 TRP N  61     223.688 144.818   5.285  1.00 61.90      NS14
ATOM  47209  NE1 TRP N  61     224.322 143.623   5.511  1.00 61.90      NS14
ATOM  47210  CZ2 TRP N  61     223.868 141.656   7.011  1.00 61.90      NS14
ATOM  47211  CZ3 TRP N  61     221.873 141.946   8.338  1.00 61.90      NS14
ATOM  47212  CH2 TRP N  61     222.984 141.190   7.949  1.00 61.90      NS14
ATOM  47213  C   TRP N  61     220.672 145.422   3.962  1.00 92.57      NS14
ATOM  47214  O   TRP N  61     220.488 146.257   3.050  1.00 92.57      NS14
ATOM  47215  OXT TRP N  61     221.118 144.269   3.773  1.00 61.90      NS14
TER   47215       TRP N  61                                              NS14
ATOM  47216  CB  PRO O   2     154.268 110.238 -72.470  1.00 53.07      OS15
ATOM  47217  CG  PRO O   2     155.677 110.089 -72.997  1.00 53.07      OS15
ATOM  47218  C   PRO O   2     152.252 109.005 -73.229  1.00104.37      OS15
ATOM  47219  O   PRO O   2     151.920 108.659 -74.366  1.00104.37      OS15
ATOM  47220  N   PRO O   2     154.501 108.236 -73.814  1.00104.37      OS15
ATOM  47221  CD  PRO O   2     155.560 109.168 -74.226  1.00 53.07      OS15
ATOM  47222  CA  PRO O   2     153.684 108.862 -72.754  1.00104.37      OS15
ATOM  47223  N   ILE O   3     151.412 109.531 -72.349  1.00 66.55      OS15
ATOM  47224  CA  ILE O   3     150.011 109.733 -72.661  1.00 66.55      OS15
ATOM  47225  CB  ILE O   3     149.145 109.485 -71.430  1.00 82.81      OS15
ATOM  47226  CG2 ILE O   3     147.754 109.073 -71.862  1.00 82.81      OS15
ATOM  47227  CG1 ILE O   3     149.763 108.379 -70.576  1.00 82.81      OS15
ATOM  47228  CD1 ILE O   3     149.215 108.328 -69.172  1.00 82.81      OS15
ATOM  47229  C   ILE O   3     149.849 111.183 -73.091  1.00 66.55      OS15
ATOM  47230  O   ILE O   3     149.859 112.089 -72.254  1.00 66.55      OS15
ATOM  47231  N   THR O   4     149.710 111.402 -74.395  1.00 58.06      OS15
ATOM  47232  CA  THR O   4     149.564 112.749 -74.926  1.00 58.06      OS15
ATOM  47233  CB  THR O   4     149.689 112.762 -76.456  1.00111.77      OS15
ATOM  47234  OG1 THR O   4     148.823 111.770 -77.022  1.00111.77      OS15
ATOM  47235  CG2 THR O   4     151.120 112.484 -76.865  1.00111.77      OS15
ATOM  47236  C   THR O   4     148.242 113.391 -74.541  1.00 58.06      OS15
ATOM  47237  O   THR O   4     147.215 112.717 -74.443  1.00 58.06      OS15
ATOM  47238  N   LYS O   5     148.288 114.702 -74.320  1.00 88.61      OS15
ATOM  47239  CA  LYS O   5     147.116 115.480 -73.946  1.00 88.61      OS15
ATOM  47240  CB  LYS O   5     147.338 116.952 -74.297  1.00149.53      OS15
ATOM  47241  CG  LYS O   5     148.578 117.554 -73.655  1.00149.53      OS15
ATOM  47242  CD  LYS O   5     148.898 118.932 -74.221  1.00149.53      OS15
ATOM  47243  CE  LYS O   5     149.322 118.855 -75.681  1.00149.53      OS15
ATOM  47244  NZ  LYS O   5     149.660 120.197 -76.232  1.00149.53      OS15
ATOM  47245  C   LYS O   5     145.885 114.961 -74.673  1.00 88.61      OS15
ATOM  47246  O   LYS O   5     144.966 114.430 -74.049  1.00 88.61      OS15
ATOM  47247  N   GLU O   6     145.881 115.112 -75.995  1.00 68.12      OS15
ATOM  47248  CA  GLU O   6     144.765 114.663 -76.827  1.00 68.12      OS15
ATOM  47249  CB  GLU O   6     145.113 114.817 -78.313  1.00201.11      OS15
ATOM  47250  CG  GLU O   6     146.553 114.464 -78.673  1.00201.11      OS15
ATOM  47251  CD  GLU O   6     147.542 115.561 -78.301  1.00201.11      OS15
ATOM  47252  OE1 GLU O   6     147.441 116.673 -78.864  1.00201.11      OS15
ATOM  47253  OE2 GLU O   6     148.419 115.313 -77.446  1.00201.11      OS15
ATOM  47254  C   GLU O   6     144.397 113.218 -76.530  1.00 68.12      OS15
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ATOM  47255  O   GLU O   6     143.245 112.902 -76.236  1.00 68.12       OS15
ATOM  47256  N   GLU O   7     145.391 112.347 -76.608  1.00 45.08       OS15
ATOM  47257  CA  GLU O   7     145.204 110.929 -76.337  1.00 45.08       OS15
ATOM  47258  CB  GLU O   7     146.561 110.236 -76.418  1.00 94.74       OS15
ATOM  47259  CG  GLU O   7     146.716 109.024 -75.547  1.00 94.74       OS15
ATOM  47260  CD  GLU O   7     148.167 108.738 -75.260  1.00 94.74       OS15
ATOM  47261  OE1 GLU O   7     148.445 107.831 -74.454  1.00 94.74       OS15
ATOM  47262  OE2 GLU O   7     149.033 109.425 -75.841  1.00 94.74       OS15
ATOM  47263  C   GLU O   7     144.566 110.712 -74.963  1.00 45.08       OS15
ATOM  47264  O   GLU O   7     143.786 109.784 -74.764  1.00 45.08       OS15
ATOM  47265  N   LYS O   8     144.906 111.571 -74.016  1.00 45.68       OS15
ATOM  47266  CA  LYS O   8     144.348 111.462 -72.683  1.00 45.68       OS15
ATOM  47267  CB  LYS O   8     145.131 112.339 -71.712  1.00 63.50       OS15
ATOM  47268  CG  LYS O   8     144.625 112.277 -70.291  1.00 63.50       OS15
ATOM  47269  CD  LYS O   8     145.387 113.246 -69.418  1.00 63.50       OS15
ATOM  47270  CE  LYS O   8     145.007 113.089 -67.957  1.00 63.50       OS15
ATOM  47271  NZ  LYS O   8     145.697 114.079 -67.080  1.00 63.50       OS15
ATOM  47272  C   LYS O   8     142.888 111.899 -72.701  1.00 45.68       OS15
ATOM  47273  O   LYS O   8     141.991 111.089 -72.488  1.00 45.68       OS15
ATOM  47274  N   GLN O   9     142.658 113.185 -72.960  1.00 65.03       OS15
ATOM  47275  CA  GLN O   9     141.305 113.744 -72.999  1.00 65.03       OS15
ATOM  47276  CB  GLN O   9     141.318 115.101 -73.700  1.00179.36       OS15
ATOM  47277  CG  GLN O   9     142.088 116.157 -72.928  1.00179.36       OS15
ATOM  47278  CD  GLN O   9     142.136 117.487 -73.645  1.00179.36       OS15
ATOM  47279  OE1 GLN O   9     141.100 118.050 -73.999  1.00179.36       OS15
ATOM  47280  NE2 GLN O   9     143.343 118.003 -73.859  1.00179.36       OS15
ATOM  47281  C   GLN O   9     140.307 112.813 -73.673  1.00 65.03       OS15
ATOM  47282  O   GLN O   9     139.154 112.717 -73.262  1.00 65.03       OS15
ATOM  47283  N   LYS O  10     140.758 112.122 -74.708  1.00 73.39       OS15
ATOM  47284  CA  LYS O  10     139.902 111.184 -75.410  1.00 73.39       OS15
ATOM  47285  CB  LYS O  10     140.730 110.409 -76.444  1.00156.53       OS15
ATOM  47286  CG  LYS O  10     140.496 108.903 -76.484  1.00156.53       OS15
ATOM  47287  CD  LYS O  10     139.112 108.546 -76.990  1.00156.53       OS15
ATOM  47288  CE  LYS O  10     138.898 107.042 -76.948  1.00156.53       OS15
ATOM  47289  NZ  LYS O  10     137.542 106.654 -77.424  1.00156.53       OS15
ATOM  47290  C   LYS O  10     139.281 110.226 -74.394  1.00 73.39       OS15
ATOM  47291  O   LYS O  10     138.089 109.918 -74.452  1.00 73.39       OS15
ATOM  47292  N   VAL O  11     140.092 109.765 -73.451  1.00 45.50       OS15
ATOM  47293  CA  VAL O  11     139.605 108.830 -72.451  1.00 45.50       OS15
ATOM  47294  CB  VAL O  11     140.756 108.221 -71.615  1.00 46.28       OS15
ATOM  47295  CG1 VAL O  11     140.444 106.770 -71.318  1.00 46.28       OS15
ATOM  47296  CG2 VAL O  11     142.083 108.331 -72.358  1.00 46.28       OS15
ATOM  47297  C   VAL O  11     138.642 109.543 -71.529  1.00 45.50       OS15
ATOM  47298  O   VAL O  11     137.600 108.997 -71.178  1.00 45.50       OS15
ATOM  47299  N   ILE O  12     138.994 110.768 -71.150  1.00 49.68       OS15
ATOM  47300  CA  ILE O  12     138.146 111.559 -70.267  1.00 49.68       OS15
ATOM  47301  CB  ILE O  12     138.652 112.996 -70.111  1.00 39.38       OS15
ATOM  47302  CG2 ILE O  12     137.561 113.854 -69.528  1.00 39.38       OS15
ATOM  47303  CG1 ILE O  12     139.882 113.036 -69.210  1.00 39.38       OS15
ATOM  47304  CD1 ILE O  12     140.373 114.456 -68.893  1.00 39.38       OS15
ATOM  47305  C   ILE O  12     136.736 111.633 -70.824  1.00 49.68       OS15
ATOM  47306  O   ILE O  12     135.754 111.457 -70.100  1.00 49.68       OS15
ATOM  47307  N   GLN O  13     136.636 111.917 -72.114  1.00 52.48       OS15
ATOM  47308  CA  GLN O  13     135.335 111.993 -72.738  1.00 52.48       OS15
ATOM  47309  CB  GLN O  13     135.469 112.449 -74.186  1.00166.25       OS15
ATOM  47310  CG  GLN O  13     136.148 113.786 -74.348  1.00166.25       OS15
ATOM  47311  CD  GLN O  13     136.390 114.128 -75.801  1.00166.25       OS15
ATOM  47312  OE1 GLN O  13     136.928 115.188 -76.118  1.00166.25       OS15
ATOM  47313  NE2 GLN O  13     135.995 113.227 -76.696  1.00166.25       OS15
ATOM  47314  C   GLN O  13     134.729 110.598 -72.702  1.00 52.48       OS15
ATOM  47315  O   GLN O  13     133.618 110.394 -72.209  1.00 52.48       OS15
ATOM  47316  N   GLU O  14     135.484 109.626 -73.200  1.00 46.04       OS15
ATOM  47317  CA  GLU O  14     134.997 108.262 -73.263  1.00 46.04       OS15
ATOM  47318  CB  GLU O  14     136.132 107.314 -73.648  1.00201.30       OS15
ATOM  47319  CG  GLU O  14     135.647 105.917 -73.991  1.00201.30       OS15
ATOM  47320  CD  GLU O  14     134.604 105.917 -75.100  1.00201.30       OS15
ATOM  47321  OE1 GLU O  14     134.017 104.847 -75.366  1.00201.30       OS15
ATOM  47322  OE2 GLU O  14     134.374 106.985 -75.708  1.00201.30       OS15
ATOM  47323  C   GLU O  14     134.319 107.764 -71.993  1.00 46.04       OS15
ATOM  47324  O   GLU O  14     133.519 106.830 -72.054  1.00 46.04       OS15
ATOM  47325  N   PHE O  15     134.618 108.386 -70.852  1.00 63.04       OS15
ATOM  47326  CA  PHE O  15     134.033 107.950 -69.581  1.00 63.04       OS15
ATOM  47327  CB  PHE O  15     135.107 107.367 -68.649  1.00 44.47       OS15
ATOM  47328  CG  PHE O  15     135.541 105.980 -69.014  1.00 44.47       OS15
ATOM  47329  CD1 PHE O  15     136.523 105.772 -69.972  1.00 44.47       OS15
ATOM  47330  CD2 PHE O  15     134.936 104.877 -68.423  1.00 44.47       OS15
ATOM  47331  CE1 PHE O  15     136.890 104.491 -70.336  1.00 44.47       OS15
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ATOM  47332  CE2 PHE O  15     135.302 103.588 -68.786  1.00 44.47      OS15
ATOM  47333  CZ  PHE O  15     136.279 103.398 -69.744  1.00 44.47      OS15
ATOM  47334  C   PHE O  15     133.257 108.973 -68.781  1.00 63.04      OS15
ATOM  47335  O   PHE O  15     132.487 108.595 -67.902  1.00 63.04      OS15
ATOM  47336  N   ALA O  16     133.462 110.255 -69.054  1.00 38.90      OS15
ATOM  47337  CA  ALA O  16     132.757 111.294 -68.305  1.00 38.90      OS15
ATOM  47338  CB  ALA O  16     133.015 112.652 -68.937  1.00 48.87      OS15
ATOM  47339  C   ALA O  16     131.243 111.035 -68.194  1.00 38.90      OS15
ATOM  47340  O   ALA O  16     130.617 110.514 -69.119  1.00 38.90      OS15
ATOM  47341  N   ARG O  17     130.666 111.393 -67.051  1.00 85.54      OS15
ATOM  47342  CA  ARG O  17     129.237 111.201 -66.805  1.00 85.54      OS15
ATOM  47343  CB  ARG O  17     128.939 111.356 -65.309  1.00110.07      OS15
ATOM  47344  CG  ARG O  17     129.621 110.336 -64.408  1.00110.07      OS15
ATOM  47345  CD  ARG O  17     128.896 108.991 -64.401  1.00110.07      OS15
ATOM  47346  NE  ARG O  17     127.581 109.046 -63.756  1.00110.07      OS15
ATOM  47347  CZ  ARG O  17     127.370 109.384 -62.485  1.00110.07      OS15
ATOM  47348  NH1 ARG O  17     128.387 109.709 -61.696  1.00110.07      OS15
ATOM  47349  NH2 ARG O  17     126.136 109.391 -61.997  1.00110.07      OS15
ATOM  47350  C   ARG O  17     128.377 112.195 -67.589  1.00 85.54      OS15
ATOM  47351  O   ARG O  17     127.184 111.965 -67.799  1.00 85.54      OS15
ATOM  47352  N   PHE O  18     128.988 113.298 -68.014  1.00 54.01      OS15
ATOM  47353  CA  PHE O  18     128.286 114.339 -68.759  1.00 54.01      OS15
ATOM  47354  CB  PHE O  18     127.187 114.926 -67.893  1.00 63.92      OS15
ATOM  47355  CG  PHE O  18     127.674 115.397 -66.571  1.00 63.92      OS15
ATOM  47356  CD1 PHE O  18     128.296 116.632 -66.449  1.00 63.92      OS15
ATOM  47357  CD2 PHE O  18     127.568 114.576 -65.450  1.00 63.92      OS15
ATOM  47358  CE1 PHE O  18     128.816 117.050 -65.221  1.00 63.92      OS15
ATOM  47359  CE2 PHE O  18     128.081 114.978 -64.221  1.00 63.92      OS15
ATOM  47360  CZ  PHE O  18     128.711 116.223 -64.103  1.00 63.92      OS15
ATOM  47361  C   PHE O  18     129.274 115.434 -69.131  1.00 54.01      OS15
ATOM  47362  O   PHE O  18     130.267 115.625 -68.440  1.00 54.01      OS15
ATOM  47363  N   PRO O  19     128.999 116.182 -70.210  1.00101.10      OS15
ATOM  47364  CD  PRO O  19     127.689 116.225 -70.883  1.00 63.07      OS15
ATOM  47365  CA  PRO O  19     129.860 117.269 -70.692  1.00101.10      OS15
ATOM  47366  CB  PRO O  19     128.895 118.141 -71.483  1.00 63.07      OS15
ATOM  47367  CG  PRO O  19     127.950 117.150 -72.043  1.00 63.07      OS15
ATOM  47368  C   PRO O  19     130.550 118.052 -69.576  1.00101.10      OS15
ATOM  47369  O   PRO O  19     129.886 118.671 -68.743  1.00101.10      OS15
ATOM  47370  N   GLY O  20     131.881 118.023 -69.567  1.00 70.84      OS15
ATOM  47371  CA  GLY O  20     132.632 118.738 -68.550  1.00 70.84      OS15
ATOM  47372  C   GLY O  20     133.086 117.861 -67.397  1.00 70.84      OS15
ATOM  47373  O   GLY O  20     134.006 118.217 -66.659  1.00 70.84      OS15
ATOM  47374  N   ASP O  21     132.436 116.713 -67.234  1.00 68.02      OS15
ATOM  47375  CA  ASP O  21     132.789 115.792 -66.166  1.00 68.02      OS15
ATOM  47376  CB  ASP O  21     131.923 114.536 -66.208  1.00 72.45      OS15
ATOM  47377  CG  ASP O  21     132.311 113.541 -65.134  1.00 72.45      OS15
ATOM  47378  OD1 ASP O  21     131.990 112.339 -65.267  1.00 72.45      OS15
ATOM  47379  OD2 ASP O  21     132.940 113.976 -64.144  1.00 72.45      OS15
ATOM  47380  C   ASP O  21     134.237 115.371 -66.316  1.00 68.02      OS15
ATOM  47381  O   ASP O  21     134.639 114.859 -67.357  1.00 68.02      OS15
ATOM  47382  N   THR O  22     135.020 115.580 -65.271  1.00 52.68      OS15
ATOM  47383  CA  THR O  22     136.419 115.202 -65.309  1.00 52.68      OS15
ATOM  47384  CB  THR O  22     137.324 116.443 -65.395  1.00 39.59      OS15
ATOM  47385  OG1 THR O  22     136.959 117.393 -64.380  1.00 39.59      OS15
ATOM  47386  CG2 THR O  22     137.193 117.078 -66.764  1.00 39.59      OS15
ATOM  47387  C   THR O  22     136.798 114.380 -64.085  1.00 52.68      OS15
ATOM  47388  O   THR O  22     137.224 113.232 -64.213  1.00 52.68      OS15
ATOM  47389  N   GLY O  23     136.622 114.967 -62.901  1.00 43.42      OS15
ATOM  47390  CA  GLY O  23     136.957 114.291 -61.654  1.00 43.42      OS15
ATOM  47391  C   GLY O  23     135.988 113.231 -61.168  1.00 43.42      OS15
ATOM  47392  O   GLY O  23     136.111 112.753 -60.052  1.00 43.42      OS15
ATOM  47393  N   SER O  24     135.017 112.868 -61.993  1.00 27.94      OS15
ATOM  47394  CA  SER O  24     134.060 111.841 -61.619  1.00 27.94      OS15
ATOM  47395  CB  SER O  24     133.027 111.656 -62.725  1.00 62.38      OS15
ATOM  47396  OG  SER O  24     132.559 110.321 -62.770  1.00 62.38      OS15
ATOM  47397  C   SER O  24     134.784 110.524 -61.390  1.00 27.94      OS15
ATOM  47398  O   SER O  24     135.741 110.194 -62.094  1.00 27.94      OS15
ATOM  47399  N   THR O  25     134.315 109.766 -60.407  1.00 34.55      OS15
ATOM  47400  CA  THR O  25     134.903 108.471 -60.078  1.00 34.55      OS15
ATOM  47401  CB  THR O  25     133.970 107.709 -59.182  1.00 43.11      OS15
ATOM  47402  OG1 THR O  25     133.449 108.616 -58.203  1.00 43.11      OS15
ATOM  47403  CG2 THR O  25     134.693 106.565 -58.510  1.00 43.11      OS15
ATOM  47404  C   THR O  25     135.199 107.619 -61.306  1.00 34.55      OS15
ATOM  47405  O   THR O  25     136.283 107.058 -61.423  1.00 34.55      OS15
ATOM  47406  N   GLU O  26     134.231 107.521 -62.214  1.00 34.66      OS15
ATOM  47407  CA  GLU O  26     134.413 106.753 -63.437  1.00 34.66      OS15
ATOM  47408  CB  GLU O  26     133.164 106.802 -64.310  1.00 54.51      OS15
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ATOM  47409  CG  GLU O  26     132.088 105.790 -63.994  1.00 54.51      OS15
ATOM  47410  CD  GLU O  26     131.080 106.293 -62.987  1.00 54.51      OS15
ATOM  47411  OE1 GLU O  26     129.981 105.694 -62.916  1.00 54.51      OS15
ATOM  47412  OE2 GLU O  26     131.388 107.275 -62.271  1.00 54.51      OS15
ATOM  47413  C   GLU O  26     135.567 107.321 -64.253  1.00 34.66      OS15
ATOM  47414  O   GLU O  26     136.511 106.611 -64.616  1.00 34.66      OS15
ATOM  47415  N   VAL O  27     135.478 108.609 -64.559  1.00 31.76      OS15
ATOM  47416  CA  VAL O  27     136.510 109.244 -65.349  1.00 31.76      OS15
ATOM  47417  CB  VAL O  27     136.352 110.770 -65.399  1.00 35.93      OS15
ATOM  47418  CG1 VAL O  27     137.246 111.334 -66.477  1.00 35.93      OS15
ATOM  47419  CG2 VAL O  27     134.901 111.147 -65.668  1.00 35.93      OS15
ATOM  47420  C   VAL O  27     137.806 108.914 -64.671  1.00 31.76      OS15
ATOM  47421  O   VAL O  27     138.714 108.388 -65.296  1.00 31.76      OS15
ATOM  47422  N   GLN O  28     137.873 109.193 -63.375  1.00 24.90      OS15
ATOM  47423  CA  GLN O  28     139.079 108.926 -62.610  1.00 24.90      OS15
ATOM  47424  CB  GLN O  28     138.850 109.241 -61.146  1.00 45.82      OS15
ATOM  47425  CG  GLN O  28     138.851 110.710 -60.828  1.00 45.82      OS15
ATOM  47426  CD  GLN O  28     139.238 110.939 -59.395  1.00 45.82      OS15
ATOM  47427  OE1 GLN O  28     140.270 110.449 -58.955  1.00 45.82      OS15
ATOM  47428  NE2 GLN O  28     138.418 111.672 -58.654  1.00 45.82      OS15
ATOM  47429  C   GLN O  28     139.581 107.495 -62.747  1.00 24.90      OS15
ATOM  47430  O   GLN O  28     140.706 107.265 -63.194  1.00 24.90      OS15
ATOM  47431  N   VAL O  29     138.761 106.533 -62.346  1.00 18.64      OS15
ATOM  47432  CA  VAL O  29     139.160 105.140 -62.461  1.00 18.64      OS15
ATOM  47433  CB  VAL O  29     137.994 104.187 -62.073  1.00 12.59      OS15
ATOM  47434  CG1 VAL O  29     138.313 102.731 -62.465  1.00 12.59      OS15
ATOM  47435  CG2 VAL O  29     137.749 104.294 -60.570  1.00 12.59      OS15
ATOM  47436  C   VAL O  29     139.588 104.888 -63.902  1.00 18.64      OS15
ATOM  47437  O   VAL O  29     140.690 104.407 -64.164  1.00 18.64      OS15
ATOM  47438  N   ALA O  30     138.716 105.230 -64.838  1.00 37.51      OS15
ATOM  47439  CA  ALA O  30     139.029 105.045 -66.242  1.00 37.51      OS15
ATOM  47440  CB  ALA O  30     138.025 105.790 -67.087  1.00101.20      OS15
ATOM  47441  C   ALA O  30     140.433 105.560 -66.530  1.00 37.51      OS15
ATOM  47442  O   ALA O  30     141.224 104.886 -67.182  1.00 37.51      OS15
ATOM  47443  N   LEU O  31     140.729 106.753 -66.017  1.00 45.06      OS15
ATOM  47444  CA  LEU O  31     142.016 107.425 -66.203  1.00 45.06      OS15
ATOM  47445  CB  LEU O  31     141.934 108.841 -65.627  1.00 34.12      OS15
ATOM  47446  CG  LEU O  31     142.203 110.017 -66.572  1.00 34.12      OS15
ATOM  47447  CD1 LEU O  31     141.738 109.657 -67.958  1.00 34.12      OS15
ATOM  47448  CD2 LEU O  31     141.500 111.279 -66.074  1.00 34.12      OS15
ATOM  47449  C   LEU O  31     143.228 106.705 -65.618  1.00 45.06      OS15
ATOM  47450  O   LEU O  31     144.245 106.570 -66.296  1.00 45.06      OS15
ATOM  47451  N   LEU O  32     143.130 106.260 -64.364  1.00 64.70      OS15
ATOM  47452  CA  LEU O  32     144.234 105.545 -63.721  1.00 64.70      OS15
ATOM  47453  CB  LEU O  32     143.938 105.250 -62.254  1.00 63.63      OS15
ATOM  47454  CG  LEU O  32     143.688 106.432 -61.322  1.00 63.63      OS15
ATOM  47455  CD1 LEU O  32     144.009 106.019 -59.889  1.00 63.63      OS15
ATOM  47456  CD2 LEU O  32     144.555 107.606 -61.741  1.00 63.63      OS15
ATOM  47457  C   LEU O  32     144.464 104.231 -64.430  1.00 64.70      OS15
ATOM  47458  O   LEU O  32     145.599 103.825 -64.650  1.00 64.70      OS15
ATOM  47459  N   THR O  33     143.376 103.557 -64.773  1.00 40.82      OS15
ATOM  47460  CA  THR O  33     143.469 102.294 -65.487  1.00 40.82      OS15
ATOM  47461  CB  THR O  33     142.121 101.860 -66.011  1.00 47.56      OS15
ATOM  47462  OG1 THR O  33     141.175 101.876 -64.936  1.00 47.56      OS15
ATOM  47463  CG2 THR O  33     142.219 100.467 -66.612  1.00 47.56      OS15
ATOM  47464  C   THR O  33     144.372 102.487 -66.682  1.00 40.82      OS15
ATOM  47465  O   THR O  33     145.069 101.570 -67.098  1.00 40.82      OS15
ATOM  47466  N   LEU O  34     144.348 103.693 -67.237  1.00 33.32      OS15
ATOM  47467  CA  LEU O  34     145.177 104.008 -68.386  1.00 33.32      OS15
ATOM  47468  CB  LEU O  34     144.803 105.385 -68.932  1.00 60.57      OS15
ATOM  47469  CG  LEU O  34     145.521 105.841 -70.204  1.00 60.57      OS15
ATOM  47470  CD1 LEU O  34     144.766 107.008 -70.828  1.00 60.57      OS15
ATOM  47471  CD2 LEU O  34     146.955 106.237 -69.877  1.00 60.57      OS15
ATOM  47472  C   LEU O  34     146.646 103.971 -67.972  1.00 33.32      OS15
ATOM  47473  O   LEU O  34     147.403 103.085 -68.388  1.00 33.32      OS15
ATOM  47474  N   ARG O  35     147.039 104.934 -67.146  1.00 33.44      OS15
ATOM  47475  CA  ARG O  35     148.407 105.017 -66.668  1.00 33.44      OS15
ATOM  47476  CB  ARG O  35     148.497 105.985 -65.504  1.00 53.08      OS15
ATOM  47477  CG  ARG O  35     147.981 107.352 -65.800  1.00 53.08      OS15
ATOM  47478  CD  ARG O  35     148.362 108.259 -64.665  1.00 53.08      OS15
ATOM  47479  NE  ARG O  35     149.797 108.173 -64.423  1.00 53.08      OS15
ATOM  47480  CZ  ARG O  35     150.396 108.644 -63.337  1.00 53.08      OS15
ATOM  47481  NH1 ARG O  35     149.681 109.234 -62.390  1.00 53.08      OS15
ATOM  47482  NH2 ARG O  35     151.709 108.523 -63.195  1.00 53.08      OS15
ATOM  47483  C   ARG O  35     148.915 103.659 -66.202  1.00 33.44      OS15
ATOM  47484  O   ARG O  35     149.972 103.183 -66.637  1.00 33.44      OS15
ATOM  47485  N   ILE O  36     148.156 103.046 -65.301  1.00 37.45      OS15
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ATOM  47486  CA  ILE O  36     148.534 101.765 -64.757  1.00 37.45       OS15
ATOM  47487  CB  ILE O  36     147.390 101.112 -64.000  1.00 43.70       OS15
ATOM  47488  CG2 ILE O  36     147.609  99.608 -63.933  1.00 43.70       OS15
ATOM  47489  CG1 ILE O  36     147.295 101.726 -62.600  1.00 43.70       OS15
ATOM  47490  CD1 ILE O  36     146.248 101.085 -61.692  1.00 43.70       OS15
ATOM  47491  C   ILE O  36     149.000 100.821 -65.825  1.00 37.45       OS15
ATOM  47492  O   ILE O  36     150.093 100.279 -65.725  1.00 37.45       OS15
ATOM  47493  N   ASN O  37     148.189 100.626 -66.857  1.00 43.75       OS15
ATOM  47494  CA  ASN O  37     148.560  99.705 -67.924  1.00 43.75       OS15
ATOM  47495  CB  ASN O  37     147.397  99.559 -68.887  1.00 67.30       OS15
ATOM  47496  CG  ASN O  37     146.309  98.689 -68.319  1.00 67.30       OS15
ATOM  47497  OD1 ASN O  37     145.207  98.629 -68.849  1.00 67.30       OS15
ATOM  47498  ND2 ASN O  37     146.619  97.996 -67.232  1.00 67.30       OS15
ATOM  47499  C   ASN O  37     149.845 100.069 -68.662  1.00 43.75       OS15
ATOM  47500  O   ASN O  37     150.669  99.196 -68.953  1.00 43.75       OS15
ATOM  47501  N   ARG O  38     150.022 101.350 -68.960  1.00 29.94       OS15
ATOM  47502  CA  ARG O  38     151.237 101.779 -69.625  1.00 29.94       OS15
ATOM  47503  CB  ARG O  38     151.253 103.296 -69.791  1.00 79.18       OS15
ATOM  47504  CG  ARG O  38     150.238 103.832 -70.772  1.00 79.18       OS15
ATOM  47505  CD  ARG O  38     150.465 103.262 -72.164  1.00 79.18       OS15
ATOM  47506  NE  ARG O  38     150.141 104.228 -73.210  1.00 79.18       OS15
ATOM  47507  CZ  ARG O  38     150.680 105.438 -73.281  1.00 79.18       OS15
ATOM  47508  NH1 ARG O  38     151.561 105.834 -72.368  1.00 79.18       OS15
ATOM  47509  NH2 ARG O  38     150.352 106.247 -74.272  1.00 79.18       OS15
ATOM  47510  C   ARG O  38     152.408 101.362 -68.741  1.00 29.94       OS15
ATOM  47511  O   ARG O  38     153.308 100.638 -69.176  1.00 29.94       OS15
ATOM  47512  N   LEU O  39     152.387 101.817 -67.490  1.00 31.41       OS15
ATOM  47513  CA  LEU O  39     153.456 101.490 -66.555  1.00 31.41       OS15
ATOM  47514  CB  LEU O  39     153.157 102.064 -65.161  1.00 62.22       OS15
ATOM  47515  CG  LEU O  39     154.257 101.914 -64.099  1.00 62.22       OS15
ATOM  47516  CD1 LEU O  39     154.151 103.006 -63.051  1.00 62.22       OS15
ATOM  47517  CD2 LEU O  39     154.149 100.548 -63.471  1.00 62.22       OS15
ATOM  47518  C   LEU O  39     153.601  99.984 -66.494  1.00 31.41       OS15
ATOM  47519  O   LEU O  39     154.705  99.461 -66.584  1.00 31.41       OS15
ATOM  47520  N   SER O  40     152.479  99.290 -66.353  1.00 28.52       OS15
ATOM  47521  CA  SER O  40     152.504  97.841 -66.312  1.00 28.52       OS15
ATOM  47522  CB  SER O  40     151.117  97.266 -66.598  1.00150.70       OS15
ATOM  47523  OG  SER O  40     150.197  97.625 -65.585  1.00150.70       OS15
ATOM  47524  C   SER O  40     153.473  97.393 -67.392  1.00 28.52       OS15
ATOM  47525  O   SER O  40     154.362  96.576 -67.142  1.00 28.52       OS15
ATOM  47526  N   GLU O  41     153.302  97.956 -68.588  1.00 58.11       OS15
ATOM  47527  CA  GLU O  41     154.146  97.632 -69.737  1.00 58.11       OS15
ATOM  47528  CB  GLU O  41     153.655  98.385 -70.973  1.00129.12       OS15
ATOM  47529  CG  GLU O  41     153.165  97.474 -72.073  1.00129.12       OS15
ATOM  47530  CD  GLU O  41     152.095  96.511 -71.597  1.00129.12       OS15
ATOM  47531  OE1 GLU O  41     151.677  95.646 -72.394  1.00129.12       OS15
ATOM  47532  OE2 GLU O  41     151.668  96.619 -70.427  1.00129.12       OS15
ATOM  47533  C   GLU O  41     155.598  97.981 -69.473  1.00 58.11       OS15
ATOM  47534  O   GLU O  41     156.490  97.135 -69.555  1.00 58.11       OS15
ATOM  47535  N   HIS O  42     155.825  99.243 -69.152  1.00 50.85       OS15
ATOM  47536  CA  HIS O  42     157.162  99.725 -68.871  1.00 50.85       OS15
ATOM  47537  CB  HIS O  42     157.094 101.106 -68.250  1.00 47.90       OS15
ATOM  47538  CG  HIS O  42     158.399 101.574 -67.699  1.00 47.90       OS15
ATOM  47539  CD2 HIS O  42     158.838 101.684 -66.425  1.00 47.90       OS15
ATOM  47540  ND1 HIS O  42     159.437 101.988 -68.503  1.00 47.90       OS15
ATOM  47541  CE1 HIS O  42     160.460 102.338 -67.748  1.00 47.90       OS15
ATOM  47542  NE2 HIS O  42     160.123 102.163 -66.483  1.00 47.90       OS15
ATOM  47543  C   HIS O  42     157.928  98.821 -67.931  1.00 50.85       OS15
ATOM  47544  O   HIS O  42     159.142  98.935 -67.821  1.00 50.85       OS15
ATOM  47545  N   LEU O  43     157.227  97.936 -67.239  1.00 24.57       OS15
ATOM  47546  CA  LEU O  43     157.898  97.041 -66.307  1.00 24.57       OS15
ATOM  47547  CB  LEU O  43     157.221  97.078 -64.940  1.00 17.10       OS15
ATOM  47548  CG  LEU O  43     157.130  98.463 -64.307  1.00 17.10       OS15
ATOM  47549  CD1 LEU O  43     156.256  98.382 -63.075  1.00 17.10       OS15
ATOM  47550  CD2 LEU O  43     158.518  98.977 -63.977  1.00 17.10       OS15
ATOM  47551  C   LEU O  43     157.952  95.612 -66.821  1.00 24.57       OS15
ATOM  47552  O   LEU O  43     158.560  94.742 -66.184  1.00 24.57       OS15
ATOM  47553  N   LYS O  44     157.298  95.365 -67.956  1.00 52.40       OS15
ATOM  47554  CA  LYS O  44     157.330  94.041 -68.559  1.00 52.40       OS15
ATOM  47555  CB  LYS O  44     156.573  94.021 -69.889  1.00173.92       OS15
ATOM  47556  CG  LYS O  44     155.090  94.345 -69.792  1.00173.92       OS15
ATOM  47557  CD  LYS O  44     154.312  93.252 -69.077  1.00173.92       OS15
ATOM  47558  CE  LYS O  44     152.830  93.589 -69.023  1.00173.92       OS15
ATOM  47559  NZ  LYS O  44     152.032  92.530 -68.347  1.00173.92       OS15
ATOM  47560  C   LYS O  44     158.816  93.967 -68.817  1.00 52.40       OS15
ATOM  47561  O   LYS O  44     159.429  92.905 -68.791  1.00 52.40       OS15
ATOM  47562  N   VAL O  45     159.373  95.150 -69.054  1.00 55.13       OS15
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ATOM  47563  CA  VAL O  45     160.787  95.351 -69.292  1.00 55.13       OS15
ATOM  47564  CB  VAL O  45     160.995  96.189 -70.523  1.00 21.40       OS15
ATOM  47565  CG1 VAL O  45     162.454  96.262 -70.849  1.00 21.40       OS15
ATOM  47566  CG2 VAL O  45     160.233  95.604 -71.654  1.00 21.40       OS15
ATOM  47567  C   VAL O  45     161.245  96.153 -68.086  1.00 55.13       OS15
ATOM  47568  O   VAL O  45     160.428  96.510 -67.251  1.00 55.13       OS15
ATOM  47569  N   HIS O  46     162.530  96.455 -67.978  1.00 44.69       OS15
ATOM  47570  CA  HIS O  46     162.989  97.223 -66.828  1.00 44.69       OS15
ATOM  47571  CB  HIS O  46     162.478  98.648 -66.904  1.00 56.67       OS15
ATOM  47572  CG  HIS O  46     162.717  99.284 -68.223  1.00 56.67       OS15
ATOM  47573  CD2 HIS O  46     163.545 100.287 -68.594  1.00 56.67       OS15
ATOM  47574  ND1 HIS O  46     162.101  98.845 -69.372  1.00 56.67       OS15
ATOM  47575  CE1 HIS O  46     162.541  99.551 -70.398  1.00 56.67       OS15
ATOM  47576  NE2 HIS O  46     163.419 100.432 -69.953  1.00 56.67       OS15
ATOM  47577  C   HIS O  46     162.500  96.618 -65.525  1.00 44.69       OS15
ATOM  47578  O   HIS O  46     162.152  97.347 -64.596  1.00 44.69       OS15
ATOM  47579  N   LYS O  47     162.460  95.292 -65.456  1.00 46.92       OS15
ATOM  47580  CA  LYS O  47     162.024  94.627 -64.241  1.00 46.92       OS15
ATOM  47581  CB  LYS O  47     162.189  93.119 -64.403  1.00129.54       OS15
ATOM  47582  CG  LYS O  47     161.620  92.597 -65.715  1.00129.54       OS15
ATOM  47583  CD  LYS O  47     161.823  91.097 -65.866  1.00129.54       OS15
ATOM  47584  CE  LYS O  47     161.288  90.590 -67.201  1.00129.54       OS15
ATOM  47585  NZ  LYS O  47     161.478  89.118 -67.364  1.00129.54       OS15
ATOM  47586  C   LYS O  47     162.913  95.154 -63.111  1.00 46.92       OS15
ATOM  47587  O   LYS O  47     162.601  95.035 -61.933  1.00 46.92       OS15
ATOM  47588  N   LYS O  48     164.016  95.774 -63.503  1.00 57.51       OS15
ATOM  47589  CA  LYS O  48     164.989  96.312 -62.575  1.00 57.51       OS15
ATOM  47590  CB  LYS O  48     166.356  96.335 -63.262  1.00128.46       OS15
ATOM  47591  CG  LYS O  48     167.547  96.526 -62.341  1.00128.46       OS15
ATOM  47592  CD  LYS O  48     168.860  96.491 -63.126  1.00128.46       OS15
ATOM  47593  CE  LYS O  48     169.052  95.154 -63.828  1.00128.46       OS15
ATOM  47594  NZ  LYS O  48     170.272  95.112 -64.678  1.00128.46       OS15
ATOM  47595  C   LYS O  48     164.635  97.707 -62.074  1.00 57.51       OS15
ATOM  47596  O   LYS O  48     165.269  98.204 -61.151  1.00 57.51       OS15
ATOM  47597  N   ASP O  49     163.633  98.346 -62.670  1.00 39.53       OS15
ATOM  47598  CA  ASP O  49     163.244  99.696 -62.238  1.00 39.53       OS15
ATOM  47599  CB  ASP O  49     162.659 100.493 -63.412  1.00 43.77       OS15
ATOM  47600  CG  ASP O  49     162.113 101.850 -62.987  1.00 43.77       OS15
ATOM  47601  OD1 ASP O  49     162.436 102.308 -61.872  1.00 43.77       OS15
ATOM  47602  OD2 ASP O  49     161.367 102.463 -63.775  1.00 43.77       OS15
ATOM  47603  C   ASP O  49     162.246  99.672 -61.084  1.00 39.53       OS15
ATOM  47604  O   ASP O  49     161.031  99.711 -61.290  1.00 39.53       OS15
ATOM  47605  N   HIS O  50     162.766  99.631 -59.865  1.00 52.86       OS15
ATOM  47606  CA  HIS O  50     161.904  99.575 -58.705  1.00 52.86       OS15
ATOM  47607  CB  HIS O  50     162.662  99.038 -57.509  1.00 47.55       OS15
ATOM  47608  CG  HIS O  50     163.355  97.746 -57.774  1.00 47.55       OS15
ATOM  47609  CD2 HIS O  50     164.608  97.330 -57.477  1.00 47.55       OS15
ATOM  47610  ND1 HIS O  50     162.739  96.695 -58.412  1.00 47.55       OS15
ATOM  47611  CE1 HIS O  50     163.585  95.685 -58.498  1.00 47.55       OS15
ATOM  47612  NE2 HIS O  50     164.726  96.044 -57.938  1.00 47.55       OS15
ATOM  47613  C   HIS O  50     161.295 100.901 -58.330  1.00 52.86       OS15
ATOM  47614  O   HIS O  50     160.147 100.948 -57.887  1.00 52.86       OS15
ATOM  47615  N   HIS O  51     162.047 101.982 -58.495  1.00 39.91       OS15
ATOM  47616  CA  HIS O  51     161.513 103.280 -58.125  1.00 39.91       OS15
ATOM  47617  CB  HIS O  51     162.553 104.353 -58.358  1.00 46.55       OS15
ATOM  47618  CG  HIS O  51     163.652 104.318 -57.347  1.00 46.55       OS15
ATOM  47619  CD2 HIS O  51     163.986 105.181 -56.359  1.00 46.55       OS15
ATOM  47620  ND1 HIS O  51     164.508 103.246 -57.224  1.00 46.55       OS15
ATOM  47621  CE1 HIS O  51     165.319 103.448 -56.201  1.00 46.55       OS15
ATOM  47622  NE2 HIS O  51     165.023 104.614 -55.658  1.00 46.55       OS15
ATOM  47623  C   HIS O  51     160.208 103.627 -58.806  1.00 39.91       OS15
ATOM  47624  O   HIS O  51     159.369 104.308 -58.225  1.00 39.91       OS15
ATOM  47625  N   SER O  52     160.021 103.153 -60.028  1.00 29.51       OS15
ATOM  47626  CA  SER O  52     158.784 103.416 -60.736  1.00 29.51       OS15
ATOM  47627  CB  SER O  52     158.962 103.211 -62.240  1.00 34.80       OS15
ATOM  47628  OG  SER O  52     159.578 104.330 -62.850  1.00 34.80       OS15
ATOM  47629  C   SER O  52     157.733 102.453 -60.227  1.00 29.51       OS15
ATOM  47630  O   SER O  52     156.568 102.807 -60.085  1.00 29.51       OS15
ATOM  47631  N   HIS O  53     158.153 101.229 -59.948  1.00 33.38       OS15
ATOM  47632  CA  HIS O  53     157.227 100.216 -59.487  1.00 33.38       OS15
ATOM  47633  CB  HIS O  53     157.970  98.957 -59.062  1.00 46.16       OS15
ATOM  47634  CG  HIS O  53     157.064  97.858 -58.600  1.00 46.16       OS15
ATOM  47635  CD2 HIS O  53     156.741  96.670 -59.167  1.00 46.16       OS15
ATOM  47636  ND1 HIS O  53     156.356  97.926 -57.420  1.00 46.16       OS15
ATOM  47637  CE1 HIS O  53     155.638  96.826 -57.279  1.00 46.16       OS15
ATOM  47638  NE2 HIS O  53     155.853  96.048 -58.326  1.00 46.16       OS15
ATOM  47639  C   HIS O  53     156.358 100.693 -58.347  1.00 33.38       OS15
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ATOM  47640  O   HIS O  53     155.172 100.353 -58.288  1.00 33.38      OS15
ATOM  47641  N   ARG O  54     156.946 101.469 -57.436  1.00 37.92      OS15
ATOM  47642  CA  ARG O  54     156.203 102.001 -56.292  1.00 37.92      OS15
ATOM  47643  CB  ARG O  54     157.117 102.848 -55.404  1.00 34.28      OS15
ATOM  47644  CG  ARG O  54     156.423 103.536 -54.251  1.00 34.28      OS15
ATOM  47645  CD  ARG O  54     157.431 104.003 -53.212  1.00 34.28      OS15
ATOM  47646  NE  ARG O  54     156.886 104.937 -52.219  1.00 34.28      OS15
ATOM  47647  CZ  ARG O  54     156.646 106.227 -52.450  1.00 34.28      OS15
ATOM  47648  NH1 ARG O  54     156.896 106.750 -53.639  1.00 34.28      OS15
ATOM  47649  NH2 ARG O  54     156.167 106.999 -51.489  1.00 34.28      OS15
ATOM  47650  C   ARG O  54     155.046 102.843 -56.812  1.00 37.92      OS15
ATOM  47651  O   ARG O  54     153.900 102.684 -56.373  1.00 37.92      OS15
ATOM  47652  N   GLY O  55     155.357 103.729 -57.758  1.00 41.47      OS15
ATOM  47653  CA  GLY O  55     154.336 104.571 -58.349  1.00 41.47      OS15
ATOM  47654  C   GLY O  55     153.176 103.685 -58.753  1.00 41.47      OS15
ATOM  47655  O   GLY O  55     152.014 103.980 -58.465  1.00 41.47      OS15
ATOM  47656  N   LEU O  56     153.502 102.583 -59.419  1.00 19.43      OS15
ATOM  47657  CA  LEU O  56     152.498 101.634 -59.854  1.00 19.43      OS15
ATOM  47658  CB  LEU O  56     153.168 100.387 -60.394  1.00 19.27      OS15
ATOM  47659  CG  LEU O  56     152.180  99.282 -60.728  1.00 19.27      OS15
ATOM  47660  CD1 LEU O  56     151.301  99.732 -61.845  1.00 19.27      OS15
ATOM  47661  CD2 LEU O  56     152.919  98.046 -61.144  1.00 19.27      OS15
ATOM  47662  C   LEU O  56     151.674 101.260 -58.643  1.00 19.43      OS15
ATOM  47663  O   LEU O  56     150.459 101.424 -58.612  1.00 19.43      OS15
ATOM  47664  N   LEU O  57     152.371 100.764 -57.632  1.00 57.09      OS15
ATOM  47665  CA  LEU O  57     151.749 100.344 -56.392  1.00 57.09      OS15
ATOM  47666  CB  LEU O  57     152.837 100.026 -55.379  1.00 54.81      OS15
ATOM  47667  CG  LEU O  57     152.778  98.573 -54.931  1.00 54.81      OS15
ATOM  47668  CD1 LEU O  57     152.529  97.666 -56.132  1.00 54.81      OS15
ATOM  47669  CD2 LEU O  57     154.070  98.219 -54.225  1.00 54.81      OS15
ATOM  47670  C   LEU O  57     150.798 101.374 -55.814  1.00 57.09      OS15
ATOM  47671  O   LEU O  57     149.779 101.032 -55.209  1.00 57.09      OS15
ATOM  47672  N   MET O  58     151.139 102.637 -56.009  1.00 42.40      OS15
ATOM  47673  CA  MET O  58     150.331 103.715 -55.489  1.00 42.40      OS15
ATOM  47674  CB  MET O  58     151.161 104.990 -55.418  1.00 59.69      OS15
ATOM  47675  CG  MET O  58     152.505 104.799 -54.754  1.00 59.69      OS15
ATOM  47676  SD  MET O  58     153.035 106.294 -53.917  1.00 59.69      OS15
ATOM  47677  CE  MET O  58     153.454 107.322 -55.283  1.00 59.69      OS15
ATOM  47678  C   MET O  58     149.097 103.957 -56.333  1.00 42.40      OS15
ATOM  47679  O   MET O  58     148.017 104.229 -55.803  1.00 42.40      OS15
ATOM  47680  N   MET O  59     149.256 103.869 -57.647  1.00 34.49      OS15
ATOM  47681  CA  MET O  59     148.135 104.086 -58.547  1.00 34.49      OS15
ATOM  47682  CB  MET O  59     148.603 104.044 -59.995  1.00 59.46      OS15
ATOM  47683  CG  MET O  59     149.787 104.951 -60.255  1.00 59.46      OS15
ATOM  47684  SD  MET O  59     150.247 105.003 -61.981  1.00 59.46      OS15
ATOM  47685  CE  MET O  59     150.179 103.269 -62.384  1.00 59.46      OS15
ATOM  47686  C   MET O  59     147.107 103.003 -58.302  1.00 34.49      OS15
ATOM  47687  O   MET O  59     145.913 103.271 -58.199  1.00 34.49      OS15
ATOM  47688  N   VAL O  60     147.572 101.770 -58.191  1.00 27.75      OS15
ATOM  47689  CA  VAL O  60     146.652 100.687 -57.950  1.00 27.75      OS15
ATOM  47690  CB  VAL O  60     147.347  99.376 -57.727  1.00 15.84      OS15
ATOM  47691  CG1 VAL O  60     146.295  98.301 -57.452  1.00 15.84      OS15
ATOM  47692  CG2 VAL O  60     148.208  99.031 -58.945  1.00 15.84      OS15
ATOM  47693  C   VAL O  60     145.909 100.992 -56.695  1.00 27.75      OS15
ATOM  47694  O   VAL O  60     144.686 100.958 -56.671  1.00 27.75      OS15
ATOM  47695  N   GLY O  61     146.664 101.284 -55.644  1.00 46.29      OS15
ATOM  47696  CA  GLY O  61     146.065 101.591 -54.357  1.00 46.29      OS15
ATOM  47697  C   GLY O  61     144.926 102.563 -54.514  1.00 46.29      OS15
ATOM  47698  O   GLY O  61     143.784 102.253 -54.172  1.00 46.29      OS15
ATOM  47699  N   GLN O  62     145.244 103.737 -55.047  1.00 42.25      OS15
ATOM  47700  CA  GLN O  62     144.245 104.760 -55.265  1.00 42.25      OS15
ATOM  47701  CB  GLN O  62     144.860 105.929 -56.026  1.00 60.07      OS15
ATOM  47702  CG  GLN O  62     143.928 107.115 -56.225  1.00 60.07      OS15
ATOM  47703  CD  GLN O  62     143.522 107.767 -54.920  1.00 60.07      OS15
ATOM  47704  OE1 GLN O  62     144.363 108.067 -54.074  1.00 60.07      OS15
ATOM  47705  NE2 GLN O  62     142.226 108.002 -54.753  1.00 60.07      OS15
ATOM  47706  C   GLN O  62     143.067 104.183 -56.053  1.00 42.25      OS15
ATOM  47707  O   GLN O  62     141.907 104.393 -55.704  1.00 42.25      OS15
ATOM  47708  N   ARG O  63     143.355 103.432 -57.108  1.00 20.19      OS15
ATOM  47709  CA  ARG O  63     142.269 102.884 -57.900  1.00 20.19      OS15
ATOM  47710  CB  ARG O  63     142.780 102.210 -59.166  1.00 48.52      OS15
ATOM  47711  CG  ARG O  63     141.644 101.879 -60.107  1.00 48.52      OS15
ATOM  47712  CD  ARG O  63     142.121 101.345 -61.438  1.00 48.52      OS15
ATOM  47713  NE  ARG O  63     142.788 100.062 -61.284  1.00 48.52      OS15
ATOM  47714  CZ  ARG O  63     143.105  99.267 -62.295  1.00 48.52      OS15
ATOM  47715  NH1 ARG O  63     142.812  99.627 -63.536  1.00 48.52      OS15
ATOM  47716  NH2 ARG O  63     143.716  98.115 -62.060  1.00 48.52      OS15
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ATOM  47717  C   ARG O  63     141.441 101.900 -57.119  1.00 20.19      OS15
ATOM  47718  O   ARG O  63     140.263 102.136 -56.886  1.00 20.19      OS15
ATOM  47719  N   ARG O  64     142.052 100.793 -56.716  1.00 59.75      OS15
ATOM  47720  CA  ARG O  64     141.327  99.779 -55.968  1.00 59.75      OS15
ATOM  47721  CB  ARG O  64     142.281  98.693 -55.464  1.00159.77      OS15
ATOM  47722  CG  ARG O  64     143.466  99.211 -54.687  1.00159.77      OS15
ATOM  47723  CD  ARG O  64     144.453  98.091 -54.397  1.00159.77      OS15
ATOM  47724  NE  ARG O  64     143.882  97.073 -53.524  1.00159.77      OS15
ATOM  47725  CZ  ARG O  64     143.481  97.301 -52.279  1.00159.77      OS15
ATOM  47726  NH1 ARG O  64     143.589  98.514 -51.755  1.00159.77      OS15
ATOM  47727  NH2 ARG O  64     142.972  96.315 -51.555  1.00159.77      OS15
ATOM  47728  C   ARG O  64     140.583 100.421 -54.813  1.00 59.75      OS15
ATOM  47729  O   ARG O  64     139.792  99.775 -54.136  1.00 59.75      OS15
ATOM  47730  N   ARG O  65     140.824 101.707 -54.607  1.00 28.52      OS15
ATOM  47731  CA  ARG O  65     140.162 102.429 -53.539  1.00 28.52      OS15
ATOM  47732  CB  ARG O  65     141.157 103.382 -52.898  1.00 53.38      OS15
ATOM  47733  CG  ARG O  65     140.815 103.796 -51.498  1.00 53.38      OS15
ATOM  47734  CD  ARG O  65     142.096 104.107 -50.767  1.00 53.38      OS15
ATOM  47735  NE  ARG O  65     142.938 105.003 -51.549  1.00 53.38      OS15
ATOM  47736  CZ  ARG O  65     144.258 104.900 -51.631  1.00 53.38      OS15
ATOM  47737  NH1 ARG O  65     144.890 103.937 -50.973  1.00 53.38      OS15
ATOM  47738  NH2 ARG O  65     144.943 105.750 -52.385  1.00 53.38      OS15
ATOM  47739  C   ARG O  65     138.933 103.188 -54.063  1.00 28.52      OS15
ATOM  47740  O   ARG O  65     137.850 103.094 -53.486  1.00 28.52      OS15
ATOM  47741  N   LEU O  66     139.091 103.941 -55.152  1.00 37.08      OS15
ATOM  47742  CA  LEU O  66     137.958 104.668 -55.727  1.00 37.08      OS15
ATOM  47743  CB  LEU O  66     138.338 105.303 -57.064  1.00 15.97      OS15
ATOM  47744  CG  LEU O  66     139.317 106.475 -57.007  1.00 15.97      OS15
ATOM  47745  CD1 LEU O  66     138.755 107.632 -57.791  1.00 15.97      OS15
ATOM  47746  CD2 LEU O  66     139.542 106.901 -55.565  1.00 15.97      OS15
ATOM  47747  C   LEU O  66     136.856 103.655 -55.944  1.00 37.08      OS15
ATOM  47748  O   LEU O  66     135.732 103.829 -55.487  1.00 37.08      OS15
ATOM  47749  N   LEU O  67     137.198 102.590 -56.650  1.00 30.33      OS15
ATOM  47750  CA  LEU O  67     136.266 101.516 -56.905  1.00 30.33      OS15
ATOM  47751  CB  LEU O  67     137.030 100.336 -57.444  1.00 37.95      OS15
ATOM  47752  CG  LEU O  67     137.595 100.734 -58.781  1.00 37.95      OS15
ATOM  47753  CD1 LEU O  67     138.794  99.890 -59.074  1.00 37.95      OS15
ATOM  47754  CD2 LEU O  67     136.522 100.577 -59.836  1.00 37.95      OS15
ATOM  47755  C   LEU O  67     135.535 101.096 -55.635  1.00 30.33      OS15
ATOM  47756  O   LEU O  67     134.302 101.049 -55.591  1.00 30.33      OS15
ATOM  47757  N   ARG O  68     136.304 100.766 -54.607  1.00 42.17      OS15
ATOM  47758  CA  ARG O  68     135.710 100.352 -53.352  1.00 42.17      OS15
ATOM  47759  CB  ARG O  68     136.717 100.452 -52.219  1.00106.97      OS15
ATOM  47760  CG  ARG O  68     136.151 100.005 -50.888  1.00106.97      OS15
ATOM  47761  CD  ARG O  68     137.137 100.282 -49.798  1.00106.97      OS15
ATOM  47762  NE  ARG O  68     138.475  99.921 -50.235  1.00106.97      OS15
ATOM  47763  CZ  ARG O  68     139.582 100.337 -49.638  1.00106.97      OS15
ATOM  47764  NH1 ARG O  68     139.500 101.127 -48.576  1.00106.97      OS15
ATOM  47765  NH2 ARG O  68     140.768  99.980 -50.113  1.00106.97      OS15
ATOM  47766  C   ARG O  68     134.541 101.263 -53.049  1.00 42.17      OS15
ATOM  47767  O   ARG O  68     133.437 100.804 -52.778  1.00 42.17      OS15
ATOM  47768  N   TYR O  69     134.799 102.561 -53.100  1.00 24.13      OS15
ATOM  47769  CA  TYR O  69     133.773 103.551 -52.832  1.00 24.13      OS15
ATOM  47770  CB  TYR O  69     134.356 104.942 -52.907  1.00 40.53      OS15
ATOM  47771  CG  TYR O  69     133.313 106.014 -52.988  1.00 40.53      OS15
ATOM  47772  CD1 TYR O  69     132.716 106.504 -51.845  1.00 40.53      OS15
ATOM  47773  CE1 TYR O  69     131.798 107.540 -51.904  1.00 40.53      OS15
ATOM  47774  CD2 TYR O  69     132.961 106.571 -54.208  1.00 40.53      OS15
ATOM  47775  CE2 TYR O  69     132.041 107.603 -54.286  1.00 40.53      OS15
ATOM  47776  CZ  TYR O  69     131.463 108.092 -53.127  1.00 40.53      OS15
ATOM  47777  OH  TYR O  69     130.573 109.149 -53.175  1.00 40.53      OS15
ATOM  47778  C   TYR O  69     132.641 103.482 -53.824  1.00 24.13      OS15
ATOM  47779  O   TYR O  69     131.492 103.710 -53.467  1.00 24.13      OS15
ATOM  47780  N   LEU O  70     132.975 103.211 -55.083  1.00 31.63      OS15
ATOM  47781  CA  LEU O  70     131.958 103.141 -56.114  1.00 31.63      OS15
ATOM  47782  CB  LEU O  70     132.572 102.846 -57.484  1.00 51.06      OS15
ATOM  47783  CG  LEU O  70     131.681 103.080 -58.715  1.00 51.06      OS15
ATOM  47784  CD1 LEU O  70     130.502 102.156 -58.673  1.00 51.06      OS15
ATOM  47785  CD2 LEU O  70     131.202 104.521 -58.751  1.00 51.06      OS15
ATOM  47786  C   LEU O  70     131.013 102.040 -55.706  1.00 31.63      OS15
ATOM  47787  O   LEU O  70     129.878 102.312 -55.353  1.00 31.63      OS15
ATOM  47788  N   GLN O  71     131.474 100.796 -55.724  1.00 48.10      OS15
ATOM  47789  CA  GLN O  71     130.595  99.702 -55.336  1.00 48.10      OS15
ATOM  47790  CB  GLN O  71     131.394  98.455 -54.988  1.00 95.44      OS15
ATOM  47791  CG  GLN O  71     130.509  97.277 -54.692  1.00 95.44      OS15
ATOM  47792  CD  GLN O  71     131.256  95.973 -54.770  1.00 95.44      OS15
ATOM  47793  OE1 GLN O  71     132.184  95.730 -53.994  1.00 95.44      OS15
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ATOM  47794  NE2 GLN O  71     130.864  95.120 -55.718  1.00 95.44       OS15
ATOM  47795  C   GLN O  71     129.751 100.120 -54.140  1.00 48.10       OS15
ATOM  47796  O   GLN O  71     128.528 100.055 -54.192  1.00 48.10       OS15
ATOM  47797  N   ARG O  72     130.410 100.566 -53.074  1.00 50.68       OS15
ATOM  47798  CA  ARG O  72     129.719 101.008 -51.870  1.00 50.68       OS15
ATOM  47799  CB  ARG O  72     130.676 101.770 -50.953  1.00 87.63       OS15
ATOM  47800  CG  ARG O  72     129.989 102.621 -49.905  1.00 87.63       OS15
ATOM  47801  CD  ARG O  72     130.760 102.595 -48.603  1.00 87.63       OS15
ATOM  47802  NE  ARG O  72     132.140 103.055 -48.734  1.00 87.63       OS15
ATOM  47803  CZ  ARG O  72     132.496 104.328 -48.881  1.00 87.63       OS15
ATOM  47804  NH1 ARG O  72     131.569 105.278 -48.921  1.00 87.63       OS15
ATOM  47805  NH2 ARG O  72     133.781 104.653 -48.969  1.00 87.63       OS15
ATOM  47806  C   ARG O  72     128.553 101.893 -52.254  1.00 50.68       OS15
ATOM  47807  O   ARG O  72     127.426 101.627 -51.864  1.00 50.68       OS15
ATOM  47808  N   GLU O  73     128.822 102.939 -53.028  1.00 46.29       OS15
ATOM  47809  CA  GLU O  73     127.770 103.847 -53.467  1.00 46.29       OS15
ATOM  47810  CB  GLU O  73     128.374 105.110 -54.070  1.00 94.95       OS15
ATOM  47811  CG  GLU O  73     128.864 106.028 -53.006  1.00 94.95       OS15
ATOM  47812  CD  GLU O  73     127.887 106.065 -51.861  1.00 94.95       OS15
ATOM  47813  OE1 GLU O  73     126.747 106.531 -52.078  1.00 94.95       OS15
ATOM  47814  OE2 GLU O  73     128.251 105.605 -50.756  1.00 94.95       OS15
ATOM  47815  C   GLU O  73     126.824 103.197 -54.460  1.00 46.29       OS15
ATOM  47816  O   GLU O  73     126.006 102.370 -54.077  1.00 46.29       OS15
ATOM  47817  N   ASP O  74     126.916 103.576 -55.728  1.00 39.52       OS15
ATOM  47818  CA  ASP O  74     126.051 102.986 -56.733  1.00 39.52       OS15
ATOM  47819  CB  ASP O  74     125.899 103.941 -57.912  1.00 92.50       OS15
ATOM  47820  CG  ASP O  74     124.986 103.394 -58.978  1.00 92.50       OS15
ATOM  47821  OD1 ASP O  74     125.330 102.356 -59.576  1.00 92.50       OS15
ATOM  47822  OD2 ASP O  74     123.921 103.998 -59.217  1.00 92.50       OS15
ATOM  47823  C   ASP O  74     126.649 101.656 -57.198  1.00 39.52       OS15
ATOM  47824  O   ASP O  74     127.520 101.623 -58.068  1.00 39.52       OS15
ATOM  47825  N   PRO O  75     126.174 100.534 -56.641  1.00 32.20       OS15
ATOM  47826  CD  PRO O  75     124.889 100.380 -55.938  1.00 66.28       OS15
ATOM  47827  CA  PRO O  75     126.706  99.224 -57.035  1.00 32.20       OS15
ATOM  47828  CB  PRO O  75     125.918  98.266 -56.159  1.00 66.28       OS15
ATOM  47829  CG  PRO O  75     124.563  98.914 -56.164  1.00 66.28       OS15
ATOM  47830  C   PRO O  75     126.513  98.936 -58.526  1.00 32.20       OS15
ATOM  47831  O   PRO O  75     127.079  97.982 -59.064  1.00 32.20       OS15
ATOM  47832  N   GLU O  76     125.701  99.764 -59.179  1.00 69.56       OS15
ATOM  47833  CA  GLU O  76     125.423  99.610 -60.600  1.00 69.56       OS15
ATOM  47834  CB  GLU O  76     124.104 100.298 -60.965  1.00201.30       OS15
ATOM  47835  CG  GLU O  76     123.783 100.269 -62.450  1.00201.30       OS15
ATOM  47836  CD  GLU O  76     123.775  98.861 -63.016  1.00201.30       OS15
ATOM  47837  OE1 GLU O  76     123.000  98.021 -62.510  1.00201.30       OS15
ATOM  47838  OE2 GLU O  76     124.543  98.594 -63.965  1.00201.30       OS15
ATOM  47839  C   GLU O  76     126.554 100.191 -61.431  1.00 69.56       OS15
ATOM  47840  O   GLU O  76     127.228  99.462 -62.166  1.00 69.56       OS15
ATOM  47841  N   ARG O  77     126.759 101.500 -61.318  1.00 52.60       OS15
ATOM  47842  CA  ARG O  77     127.825 102.149 -62.059  1.00 52.60       OS15
ATOM  47843  CB  ARG O  77     128.140 103.527 -61.474  1.00 44.23       OS15
ATOM  47844  CG  ARG O  77     127.059 104.557 -61.724  1.00 44.23       OS15
ATOM  47845  CD  ARG O  77     127.572 105.975 -61.585  1.00 44.23       OS15
ATOM  47846  NE  ARG O  77     127.512 106.479 -60.222  1.00 44.23       OS15
ATOM  47847  CZ  ARG O  77     128.447 107.255 -59.683  1.00 44.23       OS15
ATOM  47848  NH1 ARG O  77     129.512 107.602 -60.396  1.00 44.23       OS15
ATOM  47849  NH2 ARG O  77     128.318 107.700 -58.438  1.00 44.23       OS15
ATOM  47850  C   ARG O  77     129.051 101.260 -61.967  1.00 52.60       OS15
ATOM  47851  O   ARG O  77     129.823 101.137 -62.918  1.00 52.60       OS15
ATOM  47852  N   TYR O  78     129.209 100.622 -60.813  1.00 48.87       OS15
ATOM  47853  CA  TYR O  78     130.329  99.730 -60.570  1.00 48.87       OS15
ATOM  47854  CB  TYR O  78     130.190  99.124 -59.188  1.00 50.59       OS15
ATOM  47855  CG  TYR O  78     131.393  98.339 -58.772  1.00 50.59       OS15
ATOM  47856  CD1 TYR O  78     132.599  98.975 -58.508  1.00 50.59       OS15
ATOM  47857  CE1 TYR O  78     133.717  98.251 -58.135  1.00 50.59       OS15
ATOM  47858  CD2 TYR O  78     131.330  96.958 -58.652  1.00 50.59       OS15
ATOM  47859  CE2 TYR O  78     132.430  96.222 -58.280  1.00 50.59       OS15
ATOM  47860  CZ  TYR O  78     133.628  96.867 -58.022  1.00 50.59       OS15
ATOM  47861  OH  TYR O  78     134.739  96.121 -57.666  1.00 50.59       OS15
ATOM  47862  C   TYR O  78     130.401  98.615 -61.609  1.00 48.87       OS15
ATOM  47863  O   TYR O  78     131.293  98.598 -62.457  1.00 48.87       OS15
ATOM  47864  N   ARG O  79     129.452  97.687 -61.531  1.00 72.32       OS15
ATOM  47865  CA  ARG O  79     129.393  96.564 -62.457  1.00 72.32       OS15
ATOM  47866  CB  ARG O  79     128.001  95.936 -62.432  1.00186.98       OS15
ATOM  47867  CG  ARG O  79     127.518  95.572 -61.043  1.00186.98       OS15
ATOM  47868  CD  ARG O  79     126.058  95.163 -61.062  1.00186.98       OS15
ATOM  47869  NE  ARG O  79     125.527  94.974 -59.715  1.00186.98       OS15
ATOM  47870  CZ  ARG O  79     124.254  94.707 -59.446  1.00186.98       OS15
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ATOM  47871  NH1 ARG O  79     123.375  94.595 -60.434  1.00186.98      OS15
ATOM  47872  NH2 ARG O  79     123.857  94.554 -58.190  1.00186.98      OS15
ATOM  47873  C   ARG O  79     129.695  97.060 -63.859  1.00 72.32      OS15
ATOM  47874  O   ARG O  79     130.453  96.434 -64.600  1.00 72.32      OS15
ATOM  47875  N   ALA O  80     129.103  98.197 -64.208  1.00 54.64      OS15
ATOM  47876  CA  ALA O  80     129.293  98.794 -65.525  1.00 54.64      OS15
ATOM  47877  CB  ALA O  80     128.437 100.044 -65.651  1.00136.21      OS15
ATOM  47878  C   ALA O  80     130.754  99.139 -65.791  1.00 54.64      OS15
ATOM  47879  O   ALA O  80     131.418  98.503 -66.617  1.00 54.64      OS15
ATOM  47880  N   LEU O  81     131.237 100.159 -65.085  1.00 52.11      OS15
ATOM  47881  CA  LEU O  81     132.609 100.636 -65.209  1.00 52.11      OS15
ATOM  47882  CB  LEU O  81     132.974 101.467 -63.978  1.00 41.43      OS15
ATOM  47883  CG  LEU O  81     134.351 102.126 -63.944  1.00 41.43      OS15
ATOM  47884  CD1 LEU O  81     134.436 103.169 -62.845  1.00 41.43      OS15
ATOM  47885  CD2 LEU O  81     135.379 101.057 -63.711  1.00 41.43      OS15
ATOM  47886  C   LEU O  81     133.592  99.486 -65.380  1.00 52.11      OS15
ATOM  47887  O   LEU O  81     134.331  99.433 -66.362  1.00 52.11      OS15
ATOM  47888  N   ILE O  82     133.602  98.571 -64.419  1.00 54.30      OS15
ATOM  47889  CA  ILE O  82     134.498  97.427 -64.488  1.00 54.30      OS15
ATOM  47890  CB  ILE O  82     134.186  96.391 -63.411  1.00 58.13      OS15
ATOM  47891  CG2 ILE O  82     134.939  95.098 -63.705  1.00 58.13      OS15
ATOM  47892  CG1 ILE O  82     134.556  96.943 -62.039  1.00 58.13      OS15
ATOM  47893  CD1 ILE O  82     134.296  95.970 -60.933  1.00 58.13      OS15
ATOM  47894  C   ILE O  82     134.374  96.744 -65.834  1.00 54.30      OS15
ATOM  47895  O   ILE O  82     135.179  96.993 -66.720  1.00 54.30      OS15
ATOM  47896  N   GLU O  83     133.367  95.884 -65.979  1.00 82.55      OS15
ATOM  47897  CA  GLU O  83     133.144  95.164 -67.230  1.00 82.55      OS15
ATOM  47898  CB  GLU O  83     131.652  94.907 -67.448  1.00201.30      OS15
ATOM  47899  CG  GLU O  83     131.345  94.210 -68.770  1.00201.30      OS15
ATOM  47900  CD  GLU O  83     129.892  94.346 -69.191  1.00201.30      OS15
ATOM  47901  OE1 GLU O  83     129.439  95.490 -69.408  1.00201.30      OS15
ATOM  47902  OE2 GLU O  83     129.205  93.309 -69.311  1.00201.30      OS15
ATOM  47903  C   GLU O  83     133.674  95.991 -68.391  1.00 82.55      OS15
ATOM  47904  O   GLU O  83     134.445  95.508 -69.223  1.00 82.55      OS15
ATOM  47905  N   LYS O  84     133.251  97.248 -68.429  1.00 70.37      OS15
ATOM  47906  CA  LYS O  84     133.673  98.171 -69.466  1.00 70.37      OS15
ATOM  47907  CB  LYS O  84     133.027  99.529 -69.219  1.00 62.37      OS15
ATOM  47908  CG  LYS O  84     133.351 100.575 -70.253  1.00 62.37      OS15
ATOM  47909  CD  LYS O  84     132.591 101.849 -69.950  1.00 62.37      OS15
ATOM  47910  CE  LYS O  84     132.822 102.909 -71.011  1.00 62.37      OS15
ATOM  47911  NZ  LYS O  84     132.087 104.166 -70.687  1.00 62.37      OS15
ATOM  47912  C   LYS O  84     135.197  98.293 -69.453  1.00 70.37      OS15
ATOM  47913  O   LYS O  84     135.882  97.758 -70.324  1.00 70.37      OS15
ATOM  47914  N   LEU O  85     135.715  98.994 -68.452  1.00 69.73      OS15
ATOM  47915  CA  LEU O  85     137.150  99.196 -68.296  1.00 69.73      OS15
ATOM  47916  CB  LEU O  85     137.453  99.720 -66.894  1.00 38.67      OS15
ATOM  47917  CG  LEU O  85     137.559 101.225 -66.728  1.00 38.67      OS15
ATOM  47918  CD1 LEU O  85     138.111 101.533 -65.350  1.00 38.67      OS15
ATOM  47919  CD2 LEU O  85     138.483 101.789 -67.802  1.00 38.67      OS15
ATOM  47920  C   LEU O  85     137.999  97.951 -68.523  1.00 69.73      OS15
ATOM  47921  O   LEU O  85     139.065  98.023 -69.131  1.00 69.73      OS15
ATOM  47922  N   GLY O  86     137.527  96.818 -68.011  1.00 84.21      OS15
ATOM  47923  CA  GLY O  86     138.265  95.573 -68.126  1.00 84.21      OS15
ATOM  47924  C   GLY O  86     139.063  95.319 -66.853  1.00 84.21      OS15
ATOM  47925  O   GLY O  86     140.288  95.409 -66.860  1.00 84.21      OS15
ATOM  47926  N   ILE O  87     138.369  95.014 -65.757  1.00126.33      OS15
ATOM  47927  CA  ILE O  87     139.019  94.756 -64.471  1.00126.33      OS15
ATOM  47928  CB  ILE O  87     138.848  95.957 -63.513  1.00 64.78      OS15
ATOM  47929  CG2 ILE O  87     139.571  95.707 -62.207  1.00 64.78      OS15
ATOM  47930  CG1 ILE O  87     139.439  97.213 -64.151  1.00 64.78      OS15
ATOM  47931  CD1 ILE O  87     139.316  98.454 -63.290  1.00 64.78      OS15
ATOM  47932  C   ILE O  87     138.452  93.503 -63.804  1.00126.33      OS15
ATOM  47933  O   ILE O  87     137.763  92.708 -64.447  1.00126.33      OS15
ATOM  47934  N   ARG O  88     138.744  93.341 -62.515  1.00145.86      OS15
ATOM  47935  CA  ARG O  88     138.298  92.190 -61.741  1.00145.86      OS15
ATOM  47936  CB  ARG O  88     136.810  91.919 -61.981  1.00189.30      OS15
ATOM  47937  CG  ARG O  88     135.867  92.800 -61.180  1.00189.30      OS15
ATOM  47938  CD  ARG O  88     135.996  92.524 -59.689  1.00189.30      OS15
ATOM  47939  NE  ARG O  88     134.845  93.013 -58.934  1.00189.30      OS15
ATOM  47940  CZ  ARG O  88     133.598  92.581 -59.105  1.00189.30      OS15
ATOM  47941  NH1 ARG O  88     133.330  91.647 -60.009  1.00189.30      OS15
ATOM  47942  NH2 ARG O  88     132.614  93.079 -58.367  1.00189.30      OS15
ATOM  47943  C   ARG O  88     139.120  90.967 -62.134  1.00145.86      OS15
ATOM  47944  O   ARG O  88     140.287  91.093 -62.516  1.00145.86      OS15
ATOM  47945  N   GLY O  89     138.510  89.788 -62.035  1.00201.30      OS15
ATOM  47946  CA  GLY O  89     139.195  88.557 -62.392  1.00201.30      OS15
ATOM  47947  C   GLY O  89     139.860  87.852 -61.224  1.00201.30      OS15
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ATOM  47948  O   GLY O  89     139.405  86.744 -60.862  1.00201.30      OS15
ATOM  47949  OXT GLY O  89     140.835  88.403 -60.667  1.00105.67      OS15
TER   47949      GLY O  89                                               OS15
ATOM  47950  CB  MET P   1     108.794  66.602   4.261  1.00 63.11      PS16
ATOM  47951  CG  MET P   1     107.589  67.057   4.997  1.00 63.11      PS16
ATOM  47952  SD  MET P   1     107.467  66.082   6.461  1.00 63.11      PS16
ATOM  47953  CE  MET P   1     108.785  66.848   7.438  1.00 63.11      PS16
ATOM  47954  C   MET P   1     109.597  68.918   4.129  1.00 56.73      PS16
ATOM  47955  O   MET P   1     109.941  68.863   5.306  1.00 56.73      PS16
ATOM  47956  N   MET P   1     110.625  67.162   2.726  1.00 56.73      PS16
ATOM  47957  CA  MET P   1     109.354  67.650   3.334  1.00 56.73      PS16
ATOM  47958  N   VAL P   2     109.404  70.055   3.471  1.00 28.85      PS16
ATOM  47959  CA  VAL P   2     109.607  71.366   4.071  1.00 28.85      PS16
ATOM  47960  CB  VAL P   2     109.006  72.472   3.162  1.00  7.12      PS16
ATOM  47961  CG1 VAL P   2     107.636  72.048   2.662  1.00  7.12      PS16
ATOM  47962  CG2 VAL P   2     108.924  73.782   3.908  1.00  7.12      PS16
ATOM  47963  C   VAL P   2     109.022  71.442   5.468  1.00 28.85      PS16
ATOM  47964  O   VAL P   2     107.859  71.100   5.693  1.00 28.85      PS16
ATOM  47965  N   LYS P   3     109.851  71.892   6.402  1.00 41.74      PS16
ATOM  47966  CA  LYS P   3     109.454  72.009   7.793  1.00 41.74      PS16
ATOM  47967  CB  LYS P   3     110.264  71.037   8.638  1.00 37.95      PS16
ATOM  47968  CG  LYS P   3     110.345  69.655   8.071  1.00 37.95      PS16
ATOM  47969  CD  LYS P   3     111.118  68.743   8.994  1.00 37.95      PS16
ATOM  47970  CE  LYS P   3     110.367  68.469  10.285  1.00 37.95      PS16
ATOM  47971  NZ  LYS P   3     111.140  67.508  11.122  1.00 37.95      PS16
ATOM  47972  C   LYS P   3     109.666  73.409   8.352  1.00 41.74      PS16
ATOM  47973  O   LYS P   3     110.287  74.260   7.717  1.00 41.74      PS16
ATOM  47974  N   ILE P   4     109.133  73.630   9.550  1.00 47.96      PS16
ATOM  47975  CA  ILE P   4     109.285  74.891  10.264  1.00 47.96      PS16
ATOM  47976  CB  ILE P   4     107.951  75.461  10.735  1.00 32.42      PS16
ATOM  47977  CG2 ILE P   4     108.187  76.623  11.667  1.00 32.42      PS16
ATOM  47978  CG1 ILE P   4     107.107  75.889   9.552  1.00 32.42      PS16
ATOM  47979  CD1 ILE P   4     105.778  76.464   9.985  1.00 32.42      PS16
ATOM  47980  C   ILE P   4     110.042  74.508  11.516  1.00 47.96      PS16
ATOM  47981  O   ILE P   4     109.507  73.805  12.371  1.00 47.96      PS16
ATOM  47982  N   ARG P   5     111.282  74.948  11.639  1.00 28.82      PS16
ATOM  47983  CA  ARG P   5     112.024  74.592  12.831  1.00 28.82      PS16
ATOM  47984  CB  ARG P   5     112.859  73.333  12.583  1.00 41.43      PS16
ATOM  47985  CG  ARG P   5     113.964  73.486  11.569  1.00 41.43      PS16
ATOM  47986  CD  ARG P   5     114.677  72.173  11.367  1.00 41.43      PS16
ATOM  47987  NE  ARG P   5     115.739  72.269  10.372  1.00 41.43      PS16
ATOM  47988  CZ  ARG P   5     115.950  71.365   9.418  1.00 41.43      PS16
ATOM  47989  NH1 ARG P   5     115.168  70.299   9.335  1.00 41.43      PS16
ATOM  47990  NH2 ARG P   5     116.928  71.533   8.536  1.00 41.43      PS16
ATOM  47991  C   ARG P   5     112.915  75.711  13.325  1.00 28.82      PS16
ATOM  47992  O   ARG P   5     112.887  76.824  12.799  1.00 28.82      PS16
ATOM  47993  N   LEU P   6     113.692  75.398  14.352  1.00 30.39      PS16
ATOM  47994  CA  LEU P   6     114.612  76.344  14.942  1.00 30.39      PS16
ATOM  47995  CB  LEU P   6     114.632  76.168  16.462  1.00 36.39      PS16
ATOM  47996  CG  LEU P   6     113.527  76.892  17.240  1.00 36.39      PS16
ATOM  47997  CD1 LEU P   6     112.168  76.508  16.701  1.00 36.39      PS16
ATOM  47998  CD2 LEU P   6     113.632  76.566  18.709  1.00 36.39      PS16
ATOM  47999  C   LEU P   6     115.987  76.058  14.375  1.00 30.39      PS16
ATOM  48000  O   LEU P   6     116.323  74.898  14.124  1.00 30.39      PS16
ATOM  48001  N   ALA P   7     116.774  77.109  14.153  1.00 29.43      PS16
ATOM  48002  CA  ALA P   7     118.132  76.945  13.639  1.00 29.43      PS16
ATOM  48003  CB  ALA P   7     118.201  77.373  12.208  1.00  2.30      PS16
ATOM  48004  C   ALA P   7     119.092  77.771  14.484  1.00 29.43      PS16
ATOM  48005  O   ALA P   7     119.009  78.993  14.508  1.00 29.43      PS16
ATOM  48006  N   ARG P   8     119.983  77.082  15.189  1.00 48.53      PS16
ATOM  48007  CA  ARG P   8     120.973  77.696  16.063  1.00 48.53      PS16
ATOM  48008  CB  ARG P   8     122.067  76.701  16.380  1.00 45.41      PS16
ATOM  48009  CG  ARG P   8     122.068  76.195  17.781  1.00 45.41      PS16
ATOM  48010  CD  ARG P   8     122.824  77.108  18.681  1.00 45.41      PS16
ATOM  48011  NE  ARG P   8     122.967  76.511  19.997  1.00 45.41      PS16
ATOM  48012  CZ  ARG P   8     123.857  76.920  20.891  1.00 45.41      PS16
ATOM  48013  NH1 ARG P   8     124.676  77.927  20.591  1.00 45.41      PS16
ATOM  48014  NH2 ARG P   8     123.935  76.328  22.079  1.00 45.41      PS16
ATOM  48015  C   ARG P   8     121.624  78.905  15.449  1.00 48.53      PS16
ATOM  48016  O   ARG P   8     121.961  78.894  14.266  1.00 48.53      PS16
ATOM  48017  N   PHE P   9     121.831  79.936  16.263  1.00 35.20      PS16
ATOM  48018  CA  PHE P   9     122.465  81.162  15.802  1.00 35.20      PS16
ATOM  48019  CB  PHE P   9     121.452  82.058  15.101  1.00 36.73      PS16
ATOM  48020  CG  PHE P   9     121.479  81.929  13.622  1.00 36.73      PS16
ATOM  48021  CD1 PHE P   9     122.466  82.544  12.889  1.00 36.73      PS16
ATOM  48022  CD2 PHE P   9     120.564  81.127  12.966  1.00 36.73      PS16
ATOM  48023  CE1 PHE P   9     122.546  82.358  11.526  1.00 36.73      PS16
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ATOM  48024  CE2 PHE P   9     120.637  80.933  11.593  1.00 36.73      PS16
ATOM  48025  CZ  PHE P   9     121.626  81.546  10.874  1.00 36.73      PS16
ATOM  48026  C   PHE P   9     123.101  81.909  16.941  1.00 35.20      PS16
ATOM  48027  O   PHE P   9     123.680  82.970  16.746  1.00 35.20      PS16
ATOM  48028  N   GLY P  10     123.015  81.341  18.133  1.00 57.04      PS16
ATOM  48029  CA  GLY P  10     123.586  82.004  19.284  1.00 57.04      PS16
ATOM  48030  C   GLY P  10     125.090  82.217  19.290  1.00 57.04      PS16
ATOM  48031  O   GLY P  10     125.684  82.818  18.392  1.00 57.04      PS16
ATOM  48032  N   SER P  11     125.695  81.703  20.348  1.00 48.33      PS16
ATOM  48033  CA  SER P  11     127.116  81.800  20.597  1.00 48.33      PS16
ATOM  48034  CB  SER P  11     127.423  83.191  21.140  1.00 62.22      PS16
ATOM  48035  OG  SER P  11     128.692  83.239  21.748  1.00 62.22      PS16
ATOM  48036  C   SER P  11     127.326  80.735  21.663  1.00 48.33      PS16
ATOM  48037  O   SER P  11     126.363  80.331  22.321  1.00 48.33      PS16
ATOM  48038  N   LYS P  12     128.551  80.257  21.846  1.00 56.75      PS16
ATOM  48039  CA  LYS P  12     128.741  79.224  22.854  1.00 56.75      PS16
ATOM  48040  CB  LYS P  12     130.215  78.869  23.035  1.00 94.48      PS16
ATOM  48041  CG  LYS P  12     130.388  77.560  23.790  1.00 94.48      PS16
ATOM  48042  CD  LYS P  12     131.664  77.514  24.606  1.00 94.48      PS16
ATOM  48043  CE  LYS P  12     132.907  77.452  23.739  1.00 94.48      PS16
ATOM  48044  NZ  LYS P  12     134.139  77.344  24.577  1.00 94.48      PS16
ATOM  48045  C   LYS P  12     128.160  79.682  24.189  1.00 56.75      PS16
ATOM  48046  O   LYS P  12     128.718  80.554  24.857  1.00 56.75      PS16
ATOM  48047  N   HIS P  13     127.029  79.087  24.558  1.00 66.27      PS16
ATOM  48048  CA  HIS P  13     126.349  79.410  25.803  1.00 66.27      PS16
ATOM  48049  CB  HIS P  13     127.350  79.659  26.928  1.00 55.45      PS16
ATOM  48050  CG  HIS P  13     128.107  78.443  27.350  1.00 55.45      PS16
ATOM  48051  CD2 HIS P  13     129.432  78.244  27.551  1.00 55.45      PS16
ATOM  48052  ND1 HIS P  13     127.484  77.261  27.689  1.00 55.45      PS16
ATOM  48053  CE1 HIS P  13     128.393  76.387  28.084  1.00 55.45      PS16
ATOM  48054  NE2 HIS P  13     129.582  76.959  28.011  1.00 55.45      PS16
ATOM  48055  C   HIS P  13     125.477  80.639  25.657  1.00 66.27      PS16
ATOM  48056  O   HIS P  13     124.827  81.059  26.615  1.00 66.27      PS16
ATOM  48057  N   ASN P  14     125.462  81.208  24.456  1.00 64.83      PS16
ATOM  48058  CA  ASN P  14     124.668  82.401  24.169  1.00 64.83      PS16
ATOM  48059  CB  ASN P  14     125.604  83.550  23.783  1.00 89.69      PS16
ATOM  48060  CG  ASN P  14     124.914  84.893  23.776  1.00 89.69      PS16
ATOM  48061  OD1 ASN P  14     124.520  85.402  24.822  1.00 89.69      PS16
ATOM  48062  ND2 ASN P  14     124.768  85.481  22.593  1.00 89.69      PS16
ATOM  48063  C   ASN P  14     123.725  82.094  23.009  1.00 64.83      PS16
ATOM  48064  O   ASN P  14     123.462  82.949  22.179  1.00 64.83      PS16
ATOM  48065  N   PRO P  15     123.180  80.875  22.968  1.00 30.95      PS16
ATOM  48066  CD  PRO P  15     123.081  80.095  24.210  1.00 43.35      PS16
ATOM  48067  CA  PRO P  15     122.264  80.315  21.970  1.00 30.95      PS16
ATOM  48068  CB  PRO P  15     121.888  78.990  22.585  1.00 43.35      PS16
ATOM  48069  CG  PRO P  15     121.799  79.360  24.022  1.00 43.35      PS16
ATOM  48070  C   PRO P  15     121.012  81.101  21.623  1.00 30.95      PS16
ATOM  48071  O   PRO P  15     120.160  81.299  22.486  1.00 30.95      PS16
ATOM  48072  N   HIS P  16     120.889  81.502  20.355  1.00 24.64      PS16
ATOM  48073  CA  HIS P  16     119.734  82.254  19.847  1.00 24.64      PS16
ATOM  48074  CB  HIS P  16     120.144  83.670  19.460  1.00 39.57      PS16
ATOM  48075  CG  HIS P  16     120.181  84.619  20.611  1.00 39.57      PS16
ATOM  48076  CD2 HIS P  16     119.596  85.825  20.789  1.00 39.57      PS16
ATOM  48077  ND1 HIS P  16     120.891  84.362  21.763  1.00 39.57      PS16
ATOM  48078  CE1 HIS P  16     120.744  85.369  22.604  1.00 39.57      PS16
ATOM  48079  NE2 HIS P  16     119.963  86.272  22.036  1.00 39.57      PS16
ATOM  48080  C   HIS P  16     119.214  81.539  18.615  1.00 24.64      PS16
ATOM  48081  O   HIS P  16     119.962  81.340  17.668  1.00 24.64      PS16
ATOM  48082  N   TYR P  17     117.943  81.162  18.604  1.00 28.21      PS16
ATOM  48083  CA  TYR P  17     117.426  80.444  17.452  1.00 28.21      PS16
ATOM  48084  CB  TYR P  17     116.570  79.265  17.899  1.00 60.67      PS16
ATOM  48085  CG  TYR P  17     117.269  78.297  18.811  1.00 60.67      PS16
ATOM  48086  CD1 TYR P  17     117.479  78.599  20.153  1.00 60.67      PS16
ATOM  48087  CE1 TYR P  17     118.115  77.700  21.007  1.00 60.67      PS16
ATOM  48088  CD2 TYR P  17     117.711  77.074  18.337  1.00 60.67      PS16
ATOM  48089  CE2 TYR P  17     118.346  76.166  19.177  1.00 60.67      PS16
ATOM  48090  CZ  TYR P  17     118.548  76.481  20.515  1.00 60.67      PS16
ATOM  48091  OH  TYR P  17     119.191  75.575  21.345  1.00 60.67      PS16
ATOM  48092  C   TYR P  17     116.612  81.287  16.492  1.00 28.21      PS16
ATOM  48093  O   TYR P  17     116.087  82.335  16.864  1.00 28.21      PS16
ATOM  48094  N   ARG P  18     116.519  80.808  15.253  1.00 34.98      PS16
ATOM  48095  CA  ARG P  18     115.747  81.458  14.202  1.00 34.98      PS16
ATOM  48096  CB  ARG P  18     116.629  81.836  13.019  1.00 43.88      PS16
ATOM  48097  CG  ARG P  18     117.535  82.984  13.278  1.00 43.88      PS16
ATOM  48098  CD  ARG P  18     118.049  83.575  11.981  1.00 43.88      PS16
ATOM  48099  NE  ARG P  18     118.978  84.669  12.246  1.00 43.88      PS16
ATOM  48100  CZ  ARG P  18     119.787  85.199  11.338  1.00 43.88      PS16
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ATOM  48101  NH1 ARG P  18     119.788  84.736  10.096  1.00 43.88      PS16
ATOM  48102  NH2 ARG P  18     120.592  86.192  11.675  1.00 43.88      PS16
ATOM  48103  C   ARG P  18     114.681  80.510  13.697  1.00 34.98      PS16
ATOM  48104  O   ARG P  18     114.992  79.480  13.114  1.00 34.98      PS16
ATOM  48105  N   ILE P  19     113.422  80.846  13.916  1.00 23.04      PS16
ATOM  48106  CA  ILE P  19     112.348  79.992  13.430  1.00 23.04      PS16
ATOM  48107  CB  ILE P  19     111.009  80.378  14.059  1.00 36.70      PS16
ATOM  48108  CG2 ILE P  19     109.879  79.555  13.450  1.00 36.70      PS16
ATOM  48109  CG1 ILE P  19     111.090  80.182  15.567  1.00 36.70      PS16
ATOM  48110  CD1 ILE P  19     109.864  80.645  16.276  1.00 36.70      PS16
ATOM  48111  C   ILE P  19     112.252  80.170  11.925  1.00 23.04      PS16
ATOM  48112  O   ILE P  19     111.911  81.249  11.447  1.00 23.04      PS16
ATOM  48113  N   VAL P  20     112.522  79.108  11.177  1.00 39.57      PS16
ATOM  48114  CA  VAL P  20     112.497  79.206   9.725  1.00 39.57      PS16
ATOM  48115  CB  VAL P  20     113.891  79.481   9.207  1.00 27.55      PS16
ATOM  48116  CG1 VAL P  20     114.924  78.816  10.098  1.00 27.55      PS16
ATOM  48117  CG2 VAL P  20     114.009  78.923   7.830  1.00 27.55      PS16
ATOM  48118  C   VAL P  20     111.977  78.015   8.931  1.00 39.57      PS16
ATOM  48119  O   VAL P  20     112.181  76.869   9.314  1.00 39.57      PS16
ATOM  48120  N   VAL P  21     111.339  78.308   7.801  1.00 25.75      PS16
ATOM  48121  CA  VAL P  21     110.822  77.275   6.909  1.00 25.75      PS16
ATOM  48122  CB  VAL P  21     109.822  77.819   5.908  1.00 29.15      PS16
ATOM  48123  CG1 VAL P  21     109.147  76.673   5.193  1.00 29.15      PS16
ATOM  48124  CG2 VAL P  21     108.829  78.697   6.602  1.00 29.15      PS16
ATOM  48125  C   VAL P  21     111.990  76.785   6.085  1.00 25.75      PS16
ATOM  48126  O   VAL P  21     112.719  77.593   5.519  1.00 25.75      PS16
ATOM  48127  N   THR P  22     112.158  75.471   5.990  1.00 33.93      PS16
ATOM  48128  CA  THR P  22     113.270  74.917   5.230  1.00 33.93      PS16
ATOM  48129  CB  THR P  22     114.578  74.958   6.038  1.00 21.42      PS16
ATOM  48130  OG1 THR P  22     115.665  74.599   5.188  1.00 21.42      PS16
ATOM  48131  CG2 THR P  22     114.537  73.980   7.184  1.00 21.42      PS16
ATOM  48132  C   THR P  22     112.997  73.479   4.869  1.00 33.93      PS16
ATOM  48133  O   THR P  22     112.116  72.854   5.448  1.00 33.93      PS16
ATOM  48134  N   ASP P  23     113.748  72.954   3.909  1.00 32.40      PS16
ATOM  48135  CA  ASP P  23     113.571  71.570   3.513  1.00 32.40      PS16
ATOM  48136  CB  ASP P  23     114.209  71.328   2.151  1.00 26.28      PS16
ATOM  48137  CG  ASP P  23     114.089  69.888   1.698  1.00 26.28      PS16
ATOM  48138  OD1 ASP P  23     115.017  69.112   1.981  1.00 26.28      PS16
ATOM  48139  OD2 ASP P  23     113.068  69.528   1.070  1.00 26.28      PS16
ATOM  48140  C   ASP P  23     114.225  70.692   4.578  1.00 32.40      PS16
ATOM  48141  O   ASP P  23     115.341  70.972   5.017  1.00 32.40      PS16
ATOM  48142  N   ALA P  24     113.518  69.644   5.000  1.00 35.58      PS16
ATOM  48143  CA  ALA P  24     114.013  68.735   6.027  1.00 35.58      PS16
ATOM  48144  CB  ALA P  24     113.133  67.510   6.084  1.00 89.07      PS16
ATOM  48145  C   ALA P  24     115.464  68.322   5.810  1.00 35.58      PS16
ATOM  48146  O   ALA P  24     116.265  68.306   6.743  1.00 35.58      PS16
ATOM  48147  N   ARG P  25     115.808  67.993   4.573  1.00 20.18      PS16
ATOM  48148  CA  ARG P  25     117.163  67.565   4.243  1.00 20.18      PS16
ATOM  48149  CB  ARG P  25     117.186  67.074   2.789  1.00 37.09      PS16
ATOM  48150  CG  ARG P  25     116.168  65.983   2.477  1.00 37.09      PS16
ATOM  48151  CD  ARG P  25     115.971  65.770   0.977  1.00 37.09      PS16
ATOM  48152  NE  ARG P  25     115.409  66.965   0.357  1.00 37.09      PS16
ATOM  48153  CZ  ARG P  25     114.700  66.979  -0.768  1.00 37.09      PS16
ATOM  48154  NH1 ARG P  25     114.451  65.850  -1.424  1.00 37.09      PS16
ATOM  48155  NH2 ARG P  25     114.220  68.128  -1.231  1.00 37.09      PS16
ATOM  48156  C   ARG P  25     118.307  68.587   4.461  1.00 20.18      PS16
ATOM  48157  O   ARG P  25     119.472  68.203   4.465  1.00 20.18      PS16
ATOM  48158  N   ARG P  26     118.007  69.873   4.641  1.00 23.87      PS16
ATOM  48159  CA  ARG P  26     119.077  70.866   4.823  1.00 23.87      PS16
ATOM  48160  CB  ARG P  26     118.523  72.296   4.799  1.00 40.84      PS16
ATOM  48161  CG  ARG P  26     118.503  72.998   3.433  1.00 40.84      PS16
ATOM  48162  CD  ARG P  26     119.871  73.516   3.015  1.00 40.84      PS16
ATOM  48163  NE  ARG P  26     119.780  74.204   1.733  1.00 40.84      PS16
ATOM  48164  CZ  ARG P  26     119.573  73.598   0.566  1.00 40.84      PS16
ATOM  48165  NH1 ARG P  26     119.443  72.275   0.513  1.00 40.84      PS16
ATOM  48166  NH2 ARG P  26     119.471  74.310  -0.554  1.00 40.84      PS16
ATOM  48167  C   ARG P  26     119.819  70.693   6.122  1.00 23.87      PS16
ATOM  48168  O   ARG P  26     119.309  70.074   7.054  1.00 23.87      PS16
ATOM  48169  N   LYS P  27     121.029  71.245   6.180  1.00 35.04      PS16
ATOM  48170  CA  LYS P  27     121.843  71.205   7.398  1.00 35.04      PS16
ATOM  48171  CB  LYS P  27     123.159  71.960   7.213  1.00 50.12      PS16
ATOM  48172  CG  LYS P  27     124.059  71.494   6.101  1.00 50.12      PS16
ATOM  48173  CD  LYS P  27     125.347  72.301   6.132  1.00 50.12      PS16
ATOM  48174  CE  LYS P  27     126.400  71.689   5.228  1.00 50.12      PS16
ATOM  48175  NZ  LYS P  27     125.871  71.420   3.848  1.00 50.12      PS16
ATOM  48176  C   LYS P  27     121.048  71.957   8.451  1.00 35.04      PS16
ATOM  48177  O   LYS P  27     120.086  72.653   8.134  1.00 35.04      PS16
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ATOM  48178  N   ARG P  28     121.448  71.851   9.704  1.00 48.45      PS16
ATOM  48179  CA  ARG P  28     120.713  72.575  10.719  1.00 48.45      PS16
ATOM  48180  CB  ARG P  28     121.249  72.253  12.125  1.00 32.53      PS16
ATOM  48181  CG  ARG P  28     120.727  73.177  13.204  1.00 32.53      PS16
ATOM  48182  CD  ARG P  28     120.660  72.530  14.579  1.00 32.53      PS16
ATOM  48183  NE  ARG P  28     121.933  72.395  15.295  1.00 32.53      PS16
ATOM  48184  CZ  ARG P  28     122.863  73.343  15.406  1.00 32.53      PS16
ATOM  48185  NH1 ARG P  28     122.686  74.520  14.826  1.00 32.53      PS16
ATOM  48186  NH2 ARG P  28     123.955  73.126  16.131  1.00 32.53      PS16
ATOM  48187  C   ARG P  28     120.849  74.060  10.412  1.00 48.45      PS16
ATOM  48188  O   ARG P  28     119.859  74.732  10.107  1.00 48.45      PS16
ATOM  48189  N   ASP P  29     122.082  74.557  10.453  1.00 34.26      PS16
ATOM  48190  CA  ASP P  29     122.349  75.971  10.214  1.00 34.26      PS16
ATOM  48191  CB  ASP P  29     123.563  76.395  11.038  1.00105.65      PS16
ATOM  48192  CG  ASP P  29     123.331  76.244  12.526  1.00105.65      PS16
ATOM  48193  OD1 ASP P  29     124.291  76.442  13.305  1.00105.65      PS16
ATOM  48194  OD2 ASP P  29     122.184  75.932  12.913  1.00105.65      PS16
ATOM  48195  C   ASP P  29     122.556  76.357   8.745  1.00 34.26      PS16
ATOM  48196  O   ASP P  29     123.154  77.394   8.440  1.00 34.26      PS16
ATOM  48197  N   GLY P  30     122.043  75.532   7.838  1.00 40.20      PS16
ATOM  48198  CA  GLY P  30     122.208  75.800   6.421  1.00 40.20      PS16
ATOM  48199  C   GLY P  30     121.130  76.680   5.836  1.00 40.20      PS16
ATOM  48200  O   GLY P  30     120.210  77.105   6.546  1.00 40.20      PS16
ATOM  48201  N   LYS P  31     121.251  76.937   4.532  1.00 32.71      PS16
ATOM  48202  CA  LYS P  31     120.311  77.782   3.804  1.00 32.71      PS16
ATOM  48203  CB  LYS P  31     120.587  77.774   2.298  1.00 55.48      PS16
ATOM  48204  CG  LYS P  31     119.337  78.146   1.480  1.00 55.48      PS16
ATOM  48205  CD  LYS P  31     119.642  78.869   0.180  1.00 55.48      PS16
ATOM  48206  CE  LYS P  31     120.339  77.977  -0.819  1.00 55.48      PS16
ATOM  48207  NZ  LYS P  31     120.742  78.744  -2.026  1.00 55.48      PS16
ATOM  48208  C   LYS P  31     118.878  77.388   4.006  1.00 32.71      PS16
ATOM  48209  O   LYS P  31     118.480  76.279   3.683  1.00 32.71      PS16
ATOM  48210  N   TYR P  32     118.090  78.318   4.510  1.00 28.40      PS16
ATOM  48211  CA  TYR P  32     116.692  78.052   4.725  1.00 28.40      PS16
ATOM  48212  CB  TYR P  32     116.332  78.415   6.135  1.00 28.50      PS16
ATOM  48213  CG  TYR P  32     116.801  79.777   6.563  1.00 28.50      PS16
ATOM  48214  CD1 TYR P  32     117.880  79.917   7.424  1.00 28.50      PS16
ATOM  48215  CE1 TYR P  32     118.249  81.165   7.920  1.00 28.50      PS16
ATOM  48216  CD2 TYR P  32     116.108  80.919   6.194  1.00 28.50      PS16
ATOM  48217  CE2 TYR P  32     116.472  82.170   6.687  1.00 28.50      PS16
ATOM  48218  CZ  TYR P  32     117.538  82.284   7.552  1.00 28.50      PS16
ATOM  48219  OH  TYR P  32     117.870  83.507   8.081  1.00 28.50      PS16
ATOM  48220  C   TYR P  32     115.812  78.820   3.758  1.00 28.40      PS16
ATOM  48221  O   TYR P  32     116.199  79.867   3.249  1.00 28.40      PS16
ATOM  48222  N   ILE P  33     114.624  78.294   3.505  1.00 30.45      PS16
ATOM  48223  CA  ILE P  33     113.681  78.925   2.596  1.00 30.45      PS16
ATOM  48224  CB  ILE P  33     112.412  78.100   2.503  1.00 11.46      PS16
ATOM  48225  CG2 ILE P  33     111.298  78.920   1.918  1.00 11.46      PS16
ATOM  48226  CG1 ILE P  33     112.690  76.866   1.652  1.00 11.46      PS16
ATOM  48227  CD1 ILE P  33     112.142  75.593   2.228  1.00 11.46      PS16
ATOM  48228  C   ILE P  33     113.330  80.341   3.017  1.00 30.45      PS16
ATOM  48229  O   ILE P  33     113.298  81.251   2.185  1.00 30.45      PS16
ATOM  48230  N   GLU P  34     113.056  80.521   4.304  1.00 26.99      PS16
ATOM  48231  CA  GLU P  34     112.731  81.836   4.829  1.00 26.99      PS16
ATOM  48232  CB  GLU P  34     111.488  82.404   4.158  1.00 43.13      PS16
ATOM  48233  CG  GLU P  34     110.287  82.437   5.062  1.00 43.13      PS16
ATOM  48234  CD  GLU P  34     109.204  83.341   4.537  1.00 43.13      PS16
ATOM  48235  OE1 GLU P  34     108.785  83.147   3.372  1.00 43.13      PS16
ATOM  48236  OE2 GLU P  34     108.772  84.247   5.289  1.00 43.13      PS16
ATOM  48237  C   GLU P  34     112.518  81.841   6.331  1.00 26.99      PS16
ATOM  48238  O   GLU P  34     112.036  80.872   6.913  1.00 26.99      PS16
ATOM  48239  N   LYS P  35     112.878  82.959   6.946  1.00 56.53      PS16
ATOM  48240  CA  LYS P  35     112.740  83.149   8.376  1.00 56.53      PS16
ATOM  48241  CB  LYS P  35     113.681  84.258   8.831  1.00 40.48      PS16
ATOM  48242  CG  LYS P  35     113.723  84.517  10.330  1.00 40.48      PS16
ATOM  48243  CD  LYS P  35     114.743  85.624  10.634  1.00 40.48      PS16
ATOM  48244  CE  LYS P  35     115.049  85.763  12.124  1.00 40.48      PS16
ATOM  48245  NZ  LYS P  35     116.042  86.846  12.435  1.00 40.48      PS16
ATOM  48246  C   LYS P  35     111.310  83.572   8.628  1.00 56.53      PS16
ATOM  48247  O   LYS P  35     110.673  84.162   7.760  1.00 56.53      PS16
ATOM  48248  N   ILE P  36     110.792  83.254   9.802  1.00 43.58      PS16
ATOM  48249  CA  ILE P  36     109.445  83.661  10.132  1.00 43.58      PS16
ATOM  48250  CB  ILE P  36     108.438  82.567   9.873  1.00 23.01      PS16
ATOM  48251  CG2 ILE P  36     108.318  82.323   8.389  1.00 23.01      PS16
ATOM  48252  CG1 ILE P  36     108.835  81.319  10.658  1.00 23.01      PS16
ATOM  48253  CD1 ILE P  36     107.676  80.337  10.862  1.00 23.01      PS16
ATOM  48254  C   ILE P  36     109.413  84.014  11.597  1.00 43.58      PS16
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ATOM  48255  O   ILE P  36     108.364  84.339  12.146  1.00 43.58      PS16
ATOM  48256  N   GLY P  37     110.574  83.949  12.233  1.00 26.07      PS16
ATOM  48257  CA  GLY P  37     110.642  84.296  13.635  1.00 26.07      PS16
ATOM  48258  C   GLY P  37     112.000  84.055  14.241  1.00 26.07      PS16
ATOM  48259  O   GLY P  37     112.949  83.685  13.547  1.00 26.07      PS16
ATOM  48260  N   TYR P  38     112.092  84.274  15.545  1.00 36.28      PS16
ATOM  48261  CA  TYR P  38     113.332  84.053  16.254  1.00 36.28      PS16
ATOM  48262  CB  TYR P  38     114.243  85.261  16.117  1.00 65.31      PS16
ATOM  48263  CG  TYR P  38     113.641  86.569  16.552  1.00 65.31      PS16
ATOM  48264  CD1 TYR P  38     113.673  86.960  17.886  1.00 65.31      PS16
ATOM  48265  CE1 TYR P  38     113.220  88.220  18.278  1.00 65.31      PS16
ATOM  48266  CD2 TYR P  38     113.127  87.461  15.616  1.00 65.31      PS16
ATOM  48267  CE2 TYR P  38     112.672  88.720  15.994  1.00 65.31      PS16
ATOM  48268  CZ  TYR P  38     112.726  89.096  17.326  1.00 65.31      PS16
ATOM  48269  OH  TYR P  38     112.319  90.357  17.702  1.00 65.31      PS16
ATOM  48270  C   TYR P  38     113.029  83.762  17.705  1.00 36.28      PS16
ATOM  48271  O   TYR P  38     111.968  84.120  18.207  1.00 36.28      PS16
ATOM  48272  N   TYR P  39     113.967  83.115  18.381  1.00 28.40      PS16
ATOM  48273  CA  TYR P  39     113.753  82.742  19.762  1.00 28.40      PS16
ATOM  48274  CB  TYR P  39     112.991  81.416  19.783  1.00 52.03      PS16
ATOM  48275  CG  TYR P  39     113.050  80.655  21.083  1.00 52.03      PS16
ATOM  48276  CD1 TYR P  39     112.652  81.245  22.277  1.00 52.03      PS16
ATOM  48277  CE1 TYR P  39     112.669  80.539  23.456  1.00 52.03      PS16
ATOM  48278  CD2 TYR P  39     113.470  79.332  21.109  1.00 52.03      PS16
ATOM  48279  CE2 TYR P  39     113.487  78.619  22.283  1.00 52.03      PS16
ATOM  48280  CZ  TYR P  39     113.086  79.228  23.452  1.00 52.03      PS16
ATOM  48281  OH  TYR P  39     113.100  78.518  24.624  1.00 52.03      PS16
ATOM  48282  C   TYR P  39     115.012  82.647  20.626  1.00 28.40      PS16
ATOM  48283  O   TYR P  39     115.974  81.931  20.300  1.00 28.40      PS16
ATOM  48284  N   ASP P  40     114.962  83.384  21.739  1.00 32.01      PS16
ATOM  48285  CA  ASP P  40     116.018  83.460  22.747  1.00 32.01      PS16
ATOM  48286  CB  ASP P  40     116.277  84.920  23.103  1.00 69.08      PS16
ATOM  48287  CG  ASP P  40     117.049  85.079  24.389  1.00 69.08      PS16
ATOM  48288  OD1 ASP P  40     117.216  86.237  24.833  1.00 69.08      PS16
ATOM  48289  OD2 ASP P  40     117.489  84.055  24.954  1.00 69.08      PS16
ATOM  48290  C   ASP P  40     115.515  82.710  23.978  1.00 32.01      PS16
ATOM  48291  O   ASP P  40     114.731  83.244  24.744  1.00 32.01      PS16
ATOM  48292  N   PRO P  41     115.968  81.460  24.171  1.00 32.86      PS16
ATOM  48293  CD  PRO P  41     116.947  80.822  23.282  1.00 74.14      PS16
ATOM  48294  CA  PRO P  41     115.625  80.552  25.266  1.00 32.86      PS16
ATOM  48295  CB  PRO P  41     116.536  79.360  25.030  1.00 74.14      PS16
ATOM  48296  CG  PRO P  41     116.723  79.371  23.575  1.00 74.14      PS16
ATOM  48297  C   PRO P  41     115.852  81.135  26.633  1.00 32.86      PS16
ATOM  48298  O   PRO P  41     115.000  81.029  27.498  1.00 32.86      PS16
ATOM  48299  N   ARG P  42     117.013  81.736  26.844  1.00 42.06      PS16
ATOM  48300  CA  ARG P  42     117.308  82.304  28.144  1.00 42.06      PS16
ATOM  48301  CB  ARG P  42     118.798  82.566  28.277  1.00 70.74      PS16
ATOM  48302  CG  ARG P  42     119.588  81.338  28.645  1.00 70.74      PS16
ATOM  48303  CD  ARG P  42     121.043  81.685  28.659  1.00 70.74      PS16
ATOM  48304  NE  ARG P  42     121.419  82.229  27.368  1.00 70.74      PS16
ATOM  48305  CZ  ARG P  42     122.352  83.150  27.201  1.00 70.74      PS16
ATOM  48306  NH1 ARG P  42     123.003  83.628  28.255  1.00 70.74      PS16
ATOM  48307  NH2 ARG P  42     122.621  83.597  25.980  1.00 70.74      PS16
ATOM  48308  C   ARG P  42     116.536  83.573  28.416  1.00 42.06      PS16
ATOM  48309  O   ARG P  42     116.682  84.177  29.470  1.00 42.06      PS16
ATOM  48310  N   LYS P  43     115.722  83.982  27.457  1.00 45.64      PS16
ATOM  48311  CA  LYS P  43     114.906  85.178  27.607  1.00 45.64      PS16
ATOM  48312  CB  LYS P  43     113.665  84.808  28.415  1.00 43.82      PS16
ATOM  48313  CG  LYS P  43     113.227  83.389  28.130  1.00 43.82      PS16
ATOM  48314  CD  LYS P  43     111.930  82.997  28.823  1.00 43.82      PS16
ATOM  48315  CE  LYS P  43     111.786  81.454  28.944  1.00 43.82      PS16
ATOM  48316  NZ  LYS P  43     112.717  80.811  29.962  1.00 43.82      PS16
ATOM  48317  C   LYS P  43     115.661  86.356  28.256  1.00 45.64      PS16
ATOM  48318  O   LYS P  43     115.180  86.979  29.211  1.00 45.64      PS16
ATOM  48319  N   THR P  44     116.838  86.665  27.715  1.00 54.51      PS16
ATOM  48320  CA  THR P  44     117.674  87.753  28.230  1.00 54.51      PS16
ATOM  48321  CB  THR P  44     119.090  87.702  27.612  1.00 51.33      PS16
ATOM  48322  OG1 THR P  44     118.999  87.505  26.193  1.00 51.33      PS16
ATOM  48323  CG2 THR P  44     119.888  86.581  28.236  1.00 51.33      PS16
ATOM  48324  C   THR P  44     117.120  89.162  28.019  1.00 54.51      PS16
ATOM  48325  O   THR P  44     117.649  90.131  28.571  1.00 54.51      PS16
ATOM  48326  N   THR P  45     116.063  89.265  27.219  1.00 40.97      PS16
ATOM  48327  CA  THR P  45     115.446  90.549  26.923  1.00 40.97      PS16
ATOM  48328  CB  THR P  45     115.873  91.063  25.549  1.00 38.97      PS16
ATOM  48329  OG1 THR P  45     115.146  90.376  24.525  1.00 38.97      PS16
ATOM  48330  CG2 THR P  45     117.355  90.829  25.350  1.00 38.97      PS16
ATOM  48331  C   THR P  45     113.927  90.457  26.938  1.00 40.97      PS16
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ATOM  48332  O   THR P  45     113.352  89.401  26.649  1.00 40.97      PS16
ATOM  48333  N   PRO P  46     113.255  91.576  27.246  1.00 65.46      PS16
ATOM  48334  CD  PRO P  46     113.803  92.940  27.177  1.00165.45      PS16
ATOM  48335  CA  PRO P  46     111.792  91.620  27.300  1.00 65.46      PS16
ATOM  48336  CB  PRO P  46     111.494  93.116  27.306  1.00165.45      PS16
ATOM  48337  CG  PRO P  46     112.659  93.694  26.559  1.00165.45      PS16
ATOM  48338  C   PRO P  46     111.142  90.907  26.130  1.00 65.46      PS16
ATOM  48339  O   PRO P  46     110.099  90.280  26.274  1.00 65.46      PS16
ATOM  48340  N   ASP P  47     111.775  91.004  24.972  1.00 61.43      PS16
ATOM  48341  CA  ASP P  47     111.263  90.377  23.768  1.00 61.43      PS16
ATOM  48342  CB  ASP P  47     111.290  91.389  22.626  1.00123.44      PS16
ATOM  48343  CG  ASP P  47     111.016  90.758  21.286  1.00123.44      PS16
ATOM  48344  OD1 ASP P  47     111.231  91.439  20.264  1.00123.44      PS16
ATOM  48345  OD2 ASP P  47     110.585  89.587  21.254  1.00123.44      PS16
ATOM  48346  C   ASP P  47     112.109  89.163  23.401  1.00 61.43      PS16
ATOM  48347  O   ASP P  47     113.119  89.302  22.718  1.00 61.43      PS16
ATOM  48348  N   TRP P  48     111.704  87.975  23.839  1.00 67.41      PS16
ATOM  48349  CA  TRP P  48     112.481  86.779  23.527  1.00 67.41      PS16
ATOM  48350  CB  TRP P  48     112.835  86.020  24.796  1.00 67.26      PS16
ATOM  48351  CG  TRP P  48     111.740  85.976  25.767  1.00 67.26      PS16
ATOM  48352  CD2 TRP P  48     110.921  84.852  26.078  1.00 67.26      PS16
ATOM  48353  CE2 TRP P  48     110.014  85.260  27.067  1.00 67.26      PS16
ATOM  48354  CE3 TRP P  48     110.865  83.537  25.614  1.00 67.26      PS16
ATOM  48355  CD1 TRP P  48     111.313  86.994  26.552  1.00 67.26      PS16
ATOM  48356  NE1 TRP P  48     110.275  86.576  27.341  1.00 67.26      PS16
ATOM  48357  CZ2 TRP P  48     109.062  84.400  27.608  1.00 67.26      PS16
ATOM  48358  CZ3 TRP P  48     109.919  82.682  26.151  1.00 67.26      PS16
ATOM  48359  CH2 TRP P  48     109.030  83.118  27.137  1.00 67.26      PS16
ATOM  48360  C   TRP P  48     111.845  85.826  22.531  1.00 67.41      PS16
ATOM  48361  O   TRP P  48     112.353  84.727  22.306  1.00 67.41      PS16
ATOM  48362  N   LEU P  49     110.730  86.242  21.947  1.00 34.42      PS16
ATOM  48363  CA  LEU P  49     110.068  85.442  20.928  1.00 34.42      PS16
ATOM  48364  CB  LEU P  49     109.214  84.320  21.529  1.00 31.87      PS16
ATOM  48365  CG  LEU P  49     108.421  83.590  20.426  1.00 31.87      PS16
ATOM  48366  CD1 LEU P  49     109.241  82.463  19.847  1.00 31.87      PS16
ATOM  48367  CD2 LEU P  49     107.134  83.037  20.979  1.00 31.87      PS16
ATOM  48368  C   LEU P  49     109.178  86.334  20.086  1.00 34.42      PS16
ATOM  48369  O   LEU P  49     108.386  87.107  20.616  1.00 34.42      PS16
ATOM  48370  N   LYS P  50     109.334  86.237  18.772  1.00 31.42      PS16
ATOM  48371  CA  LYS P  50     108.532  87.000  17.829  1.00 31.42      PS16
ATOM  48372  CB  LYS P  50     109.342  88.158  17.227  1.00 79.41      PS16
ATOM  48373  CG  LYS P  50     108.850  88.668  15.861  1.00 79.41      PS16
ATOM  48374  CD  LYS P  50     109.427  87.824  14.701  1.00 79.41      PS16
ATOM  48375  CE  LYS P  50     109.055  88.347  13.301  1.00 79.41      PS16
ATOM  48376  NZ  LYS P  50     109.775  87.604  12.209  1.00 79.41      PS16
ATOM  48377  C   LYS P  50     108.219  85.969  16.782  1.00 31.42      PS16
ATOM  48378  O   LYS P  50     108.993  85.019  16.628  1.00 31.42      PS16
ATOM  48379  N   VAL P  51     107.095  86.118  16.085  1.00 28.59      PS16
ATOM  48380  CA  VAL P  51     106.748  85.162  15.040  1.00 28.59      PS16
ATOM  48381  CB  VAL P  51     106.085  83.895  15.598  1.00 28.47      PS16
ATOM  48382  CG1 VAL P  51     105.634  83.016  14.450  1.00 28.47      PS16
ATOM  48383  CG2 VAL P  51     107.045  83.139  16.497  1.00 28.47      PS16
ATOM  48384  C   VAL P  51     105.793  85.700  14.008  1.00 28.59      PS16
ATOM  48385  O   VAL P  51     104.602  85.795  14.275  1.00 28.59      PS16
ATOM  48386  N   ASP P  52     106.298  86.036  12.827  1.00 66.56      PS16
ATOM  48387  CA  ASP P  52     105.436  86.528  11.756  1.00 66.56      PS16
ATOM  48388  CB  ASP P  52     106.255  86.762  10.488  1.00100.19      PS16
ATOM  48389  CG  ASP P  52     105.417  87.292   9.346  1.00100.19      PS16
ATOM  48390  OD1 ASP P  52     104.328  86.733   9.103  1.00100.19      PS16
ATOM  48391  OD2 ASP P  52     105.850  88.260   8.684  1.00100.19      PS16
ATOM  48392  C   ASP P  52     104.409  85.425  11.507  1.00 66.56      PS16
ATOM  48393  O   ASP P  52     104.565  84.623  10.588  1.00 66.56      PS16
ATOM  48394  N   VAL P  53     103.359  85.387  12.323  1.00 59.63      PS16
ATOM  48395  CA  VAL P  53     102.359  84.339  12.194  1.00 59.63      PS16
ATOM  48396  CB  VAL P  53     101.247  84.463  13.271  1.00 18.69      PS16
ATOM  48397  CG1 VAL P  53     101.629  85.536  14.276  1.00 18.69      PS16
ATOM  48398  CG2 VAL P  53      99.888  84.733  12.623  1.00 18.69      PS16
ATOM  48399  C   VAL P  53     101.743  84.288  10.813  1.00 59.63      PS16
ATOM  48400  O   VAL P  53     101.638  83.211  10.228  1.00 59.63      PS16
ATOM  48401  N   GLU P  54     101.339  85.441  10.286  1.00 38.60      PS16
ATOM  48402  CA  GLU P  54     100.745  85.475   8.948  1.00 38.60      PS16
ATOM  48403  CB  GLU P  54     100.825  86.891   8.370  1.00174.44      PS16
ATOM  48404  CG  GLU P  54     100.317  86.999   6.945  1.00174.44      PS16
ATOM  48405  CD  GLU P  54      98.952  86.363   6.774  1.00174.44      PS16
ATOM  48406  OE1 GLU P  54      98.002  86.800   7.458  1.00174.44      PS16
ATOM  48407  OE2 GLU P  54      98.830  85.422   5.961  1.00174.44      PS16
ATOM  48408  C   GLU P  54     101.515  84.500   8.053  1.00 38.60      PS16
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ATOM  48409  O   GLU P  54     100.947  83.590   7.443  1.00 38.60      PS16
ATOM  48410  N   ARG P  55     102.824  84.707   8.009  1.00 45.94      PS16
ATOM  48411  CA  ARG P  55     103.724  83.883   7.239  1.00 45.94      PS16
ATOM  48412  CB  ARG P  55     105.140  84.376   7.442  1.00 45.52      PS16
ATOM  48413  CG  ARG P  55     105.413  85.690   6.770  1.00 45.52      PS16
ATOM  48414  CD  ARG P  55     105.904  85.445   5.379  1.00 45.52      PS16
ATOM  48415  NE  ARG P  55     104.851  84.939   4.519  1.00 45.52      PS16
ATOM  48416  CZ  ARG P  55     105.080  84.210   3.436  1.00 45.52      PS16
ATOM  48417  NH1 ARG P  55     106.326  83.899   3.106  1.00 45.52      PS16
ATOM  48418  NH2 ARG P  55     104.070  83.824   2.663  1.00 45.52      PS16
ATOM  48419  C   ARG P  55     103.614  82.443   7.698  1.00 45.94      PS16
ATOM  48420  O   ARG P  55     103.425  81.535   6.889  1.00 45.94      PS16
ATOM  48421  N   ALA P  56     103.737  82.229   9.002  1.00 37.93      PS16
ATOM  48422  CA  ALA P  56     103.638  80.877   9.531  1.00 37.93      PS16
ATOM  48423  CB  ALA P  56     103.617  80.905  11.042  1.00 16.65      PS16
ATOM  48424  C   ALA P  56     102.365  80.232   8.998  1.00 37.93      PS16
ATOM  48425  O   ALA P  56     102.415  79.221   8.293  1.00 37.93      PS16
ATOM  48426  N   ARG P  57     101.228  80.833   9.329  1.00 55.60      PS16
ATOM  48427  CA  ARG P  57      99.955  80.311   8.877  1.00 55.60      PS16
ATOM  48428  CB  ARG P  57      98.870  81.377   8.939  1.00 69.74      PS16
ATOM  48429  CG  ARG P  57      98.330  81.690  10.314  1.00 69.74      PS16
ATOM  48430  CD  ARG P  57      96.833  81.984  10.196  1.00 69.74      PS16
ATOM  48431  NE  ARG P  57      96.306  82.835  11.259  1.00 69.74      PS16
ATOM  48432  CZ  ARG P  57      96.464  82.603  12.558  1.00 69.74      PS16
ATOM  48433  NH1 ARG P  57      97.141  81.544  12.980  1.00 69.74      PS16
ATOM  48434  NH2 ARG P  57      95.932  83.433  13.440  1.00 69.74      PS16
ATOM  48435  C   ARG P  57     100.099  79.850   7.444  1.00 55.60      PS16
ATOM  48436  O   ARG P  57      99.683  78.751   7.090  1.00 55.60      PS16
ATOM  48437  N   TYR P  58     100.701  80.688   6.614  1.00 52.58      PS16
ATOM  48438  CA  TYR P  58     100.863  80.327   5.220  1.00 52.58      PS16
ATOM  48439  CB  TYR P  58     101.574  81.422   4.448  1.00 45.96      PS16
ATOM  48440  CG  TYR P  58     102.108  80.927   3.134  1.00 45.96      PS16
ATOM  48441  CD1 TYR P  58     103.431  80.509   3.009  1.00 45.96      PS16
ATOM  48442  CE1 TYR P  58     103.933  80.045   1.785  1.00 45.96      PS16
ATOM  48443  CD2 TYR P  58     101.291  80.866   2.013  1.00 45.96      PS16
ATOM  48444  CE2 TYR P  58     101.775  80.404   0.788  1.00 45.96      PS16
ATOM  48445  CZ  TYR P  58     103.095  79.999   0.680  1.00 45.96      PS16
ATOM  48446  OH  TYR P  58     103.576  79.568  -0.536  1.00 45.96      PS16
ATOM  48447  C   TYR P  58     101.616  79.034   5.015  1.00 52.58      PS16
ATOM  48448  O   TYR P  58     101.100  78.106   4.409  1.00 52.58      PS16
ATOM  48449  N   TRP P  59     102.849  78.967   5.495  1.00 42.59      PS16
ATOM  48450  CA  TRP P  59     103.616  77.747   5.306  1.00 42.59      PS16
ATOM  48451  CB  TRP P  59     104.972  77.862   5.994  1.00 25.07      PS16
ATOM  48452  CG  TRP P  59     105.843  78.738   5.185  1.00 25.07      PS16
ATOM  48453  CD2 TRP P  59     106.343  78.447   3.881  1.00 25.07      PS16
ATOM  48454  CE2 TRP P  59     106.991  79.601   3.414  1.00 25.07      PS16
ATOM  48455  CE3 TRP P  59     106.298  77.322   3.059  1.00 25.07      PS16
ATOM  48456  CD1 TRP P  59     106.205  80.028   5.458  1.00 25.07      PS16
ATOM  48457  NE1 TRP P  59     106.895  80.553   4.394  1.00 25.07      PS16
ATOM  48458  CZ2 TRP P  59     107.589  79.660   2.167  1.00 25.07      PS16
ATOM  48459  CZ3 TRP P  59     106.894  77.381   1.821  1.00 25.07      PS16
ATOM  48460  CH2 TRP P  59     107.529  78.539   1.385  1.00 25.07      PS16
ATOM  48461  C   TRP P  59     102.841  76.537   5.782  1.00 42.59      PS16
ATOM  48462  O   TRP P  59     102.819  75.499   5.117  1.00 42.59      PS16
ATOM  48463  N   LEU P  60     102.194  76.666   6.930  1.00 21.89      PS16
ATOM  48464  CA  LEU P  60     101.401  75.571   7.404  1.00 21.89      PS16
ATOM  48465  CB  LEU P  60     100.797  75.910   8.749  1.00 20.57      PS16
ATOM  48466  CG  LEU P  60     101.886  75.956   9.804  1.00 20.57      PS16
ATOM  48467  CD1 LEU P  60     101.308  76.495  11.093  1.00 20.57      PS16
ATOM  48468  CD2 LEU P  60     102.468  74.556  10.013  1.00 20.57      PS16
ATOM  48469  C   LEU P  60     100.313  75.376   6.361  1.00 21.89      PS16
ATOM  48470  O   LEU P  60      99.878  74.259   6.095  1.00 21.89      PS16
ATOM  48471  N   SER P  61      99.874  76.459   5.741  1.00 40.27      PS16
ATOM  48472  CA  SER P  61      98.832  76.314   4.752  1.00 40.27      PS16
ATOM  48473  CB  SER P  61      98.360  77.684   4.251  1.00 86.58      PS16
ATOM  48474  OG  SER P  61      99.187  78.179   3.217  1.00 86.58      PS16
ATOM  48475  C   SER P  61      99.334  75.461   3.589  1.00 40.27      PS16
ATOM  48476  O   SER P  61      98.554  75.074   2.721  1.00 40.27      PS16
ATOM  48477  N   VAL P  62     100.621  75.130   3.567  1.00 32.44      PS16
ATOM  48478  CA  VAL P  62     101.114  74.337   2.448  1.00 32.44      PS16
ATOM  48479  CB  VAL P  62     101.851  75.206   1.415  1.00 19.80      PS16
ATOM  48480  CG1 VAL P  62     101.147  75.078   0.076  1.00 19.80      PS16
ATOM  48481  CG2 VAL P  62     101.926  76.653   1.880  1.00 19.80      PS16
ATOM  48482  C   VAL P  62     102.009  73.153   2.727  1.00 32.44      PS16
ATOM  48483  O   VAL P  62     102.778  72.750   1.862  1.00 32.44      PS16
ATOM  48484  N   GLY P  63     101.929  72.581   3.915  1.00 43.40      PS16
ATOM  48485  CA  GLY P  63     102.764  71.427   4.182  1.00 43.40      PS16
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ATOM  48486  C   GLY P  63     103.926  71.711   5.096  1.00 43.40      PS16
ATOM  48487  O   GLY P  63     104.823  70.882   5.242  1.00 43.40      PS16
ATOM  48488  N   ALA P  64     103.945  72.892   5.695  1.00 61.10      PS16
ATOM  48489  CA  ALA P  64     105.018  73.190   6.620  1.00 61.10      PS16
ATOM  48490  CB  ALA P  64     104.841  74.570   7.219  1.00117.98      PS16
ATOM  48491  C   ALA P  64     104.813  72.113   7.678  1.00 61.10      PS16
ATOM  48492  O   ALA P  64     103.685  71.647   7.888  1.00 61.10      PS16
ATOM  48493  N   GLN P  65     105.890  71.705   8.334  1.00 49.67      PS16
ATOM  48494  CA  GLN P  65     105.771  70.666   9.330  1.00 49.67      PS16
ATOM  48495  CB  GLN P  65     106.150  69.335   8.718  1.00 53.15      PS16
ATOM  48496  CG  GLN P  65     105.427  68.217   9.367  1.00 53.15      PS16
ATOM  48497  CD  GLN P  65     103.944  68.348   9.179  1.00 53.15      PS16
ATOM  48498  OE1 GLN P  65     103.448  68.269   8.058  1.00 53.15      PS16
ATOM  48499  NE2 GLN P  65     103.219  68.554  10.276  1.00 53.15      PS16
ATOM  48500  C   GLN P  65     106.662  70.961  10.513  1.00 49.67      PS16
ATOM  48501  O   GLN P  65     107.744  70.403  10.643  1.00 49.67      PS16
ATOM  48502  N   PRO P  66     106.195  71.830  11.407  1.00 42.21      PS16
ATOM  48503  CD  PRO P  66     104.783  72.242  11.391  1.00  5.80      PS16
ATOM  48504  CA  PRO P  66     106.857  72.294  12.634  1.00 42.21      PS16
ATOM  48505  CB  PRO P  66     105.791  73.131  13.313  1.00  5.80      PS16
ATOM  48506  CG  PRO P  66     104.526  72.471  12.854  1.00  5.80      PS16
ATOM  48507  C   PRO P  66     107.373  71.240  13.576  1.00 42.21      PS16
ATOM  48508  O   PRO P  66     106.776  70.175  13.736  1.00 42.21      PS16
ATOM  48509  N   THR P  67     108.484  71.573  14.220  1.00 42.90      PS16
ATOM  48510  CA  THR P  67     109.126  70.710  15.198  1.00 42.90      PS16
ATOM  48511  CB  THR P  67     110.517  71.252  15.557  1.00 42.01      PS16
ATOM  48512  OG1 THR P  67     111.406  71.073  14.453  1.00 42.01      PS16
ATOM  48513  CG2 THR P  67     111.062  70.549  16.781  1.00 42.01      PS16
ATOM  48514  C   THR P  67     108.284  70.723  16.464  1.00 42.90      PS16
ATOM  48515  O   THR P  67     107.529  71.667  16.710  1.00 42.90      PS16
ATOM  48516  N   ASP P  68     108.418  69.692  17.281  1.00 77.28      PS16
ATOM  48517  CA  ASP P  68     107.663  69.658  18.516  1.00 77.28      PS16
ATOM  48518  CB  ASP P  68     107.852  68.308  19.199  1.00180.56      PS16
ATOM  48519  CG  ASP P  68     107.168  67.186  18.444  1.00180.56      PS16
ATOM  48520  OD1 ASP P  68     107.314  67.134  17.205  1.00180.56      PS16
ATOM  48521  OD2 ASP P  68     106.487  66.358  19.084  1.00180.56      PS16
ATOM  48522  C   ASP P  68     108.085  70.810  19.432  1.00 77.28      PS16
ATOM  48523  O   ASP P  68     107.736  70.843  20.609  1.00 77.28      PS16
ATOM  48524  N   THR P  69     108.841  71.753  18.879  1.00 53.46      PS16
ATOM  48525  CA  THR P  69     109.287  72.931  19.617  1.00 53.46      PS16
ATOM  48526  CB  THR P  69     110.813  72.938  19.851  1.00 42.36      PS16
ATOM  48527  OG1 THR P  69     111.146  72.003  20.881  1.00 42.36      PS16
ATOM  48528  CG2 THR P  69     111.282  74.314  20.271  1.00 42.36      PS16
ATOM  48529  C   THR P  69     108.932  74.131  18.763  1.00 53.46      PS16
ATOM  48530  O   THR P  69     108.485  75.162  19.258  1.00 53.46      PS16
ATOM  48531  N   ALA P  70     109.151  73.995  17.465  1.00 44.08      PS16
ATOM  48532  CA  ALA P  70     108.832  75.073  16.560  1.00 44.08      PS16
ATOM  48533  CB  ALA P  70     109.125  74.665  15.127  1.00102.65      PS16
ATOM  48534  C   ALA P  70     107.347  75.270  16.767  1.00 44.08      PS16
ATOM  48535  O   ALA P  70     106.875  76.400  16.905  1.00 44.08      PS16
ATOM  48536  N   ARG P  71     106.623  74.153  16.814  1.00 45.46      PS16
ATOM  48537  CA  ARG P  71     105.182  74.181  17.020  1.00 45.46      PS16
ATOM  48538  CB  ARG P  71     104.603  72.771  16.987  1.00 60.38      PS16
ATOM  48539  CG  ARG P  71     103.171  72.745  17.459  1.00 60.38      PS16
ATOM  48540  CD  ARG P  71     102.580  71.360  17.455  1.00 60.38      PS16
ATOM  48541  NE  ARG P  71     101.722  71.142  16.298  1.00 60.38      PS16
ATOM  48542  CZ  ARG P  71     102.071  70.412  15.249  1.00 60.38      PS16
ATOM  48543  NH1 ARG P  71     103.266  69.827  15.219  1.00 60.38      PS16
ATOM  48544  NH2 ARG P  71     101.226  70.273  14.231  1.00 60.38      PS16
ATOM  48545  C   ARG P  71     104.843  74.821  18.364  1.00 45.46      PS16
ATOM  48546  O   ARG P  71     104.011  75.739  18.440  1.00 45.46      PS16
ATOM  48547  N   ARG P  72     105.487  74.313  19.417  1.00 31.67      PS16
ATOM  48548  CA  ARG P  72     105.298  74.818  20.772  1.00 31.67      PS16
ATOM  48549  CB  ARG P  72     106.394  74.277  21.693  1.00 60.38      PS16
ATOM  48550  CG  ARG P  72     106.465  74.977  23.038  1.00 60.38      PS16
ATOM  48551  CD  ARG P  72     107.821  74.779  23.678  1.00 60.38      PS16
ATOM  48552  NE  ARG P  72     108.172  75.920  24.517  1.00 60.38      PS16
ATOM  48553  CZ  ARG P  72     109.401  76.176  24.956  1.00 60.38      PS16
ATOM  48554  NH1 ARG P  72     110.398  75.359  24.631  1.00 60.38      PS16
ATOM  48555  NH2 ARG P  72     109.638  77.256  25.705  1.00 60.38      PS16
ATOM  48556  C   ARG P  72     105.348  76.341  20.769  1.00 31.67      PS16
ATOM  48557  O   ARG P  72     104.430  77.000  21.256  1.00 31.67      PS16
ATOM  48558  N   LEU P  73     106.433  76.881  20.215  1.00 35.01      PS16
ATOM  48559  CA  LEU P  73     106.647  78.317  20.122  1.00 35.01      PS16
ATOM  48560  CB  LEU P  73     108.016  78.604  19.522  1.00 56.60      PS16
ATOM  48561  CG  LEU P  73     109.209  78.074  20.312  1.00 56.60      PS16
ATOM  48562  CD1 LEU P  73     110.486  78.367  19.536  1.00 56.60      PS16
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ATOM  48563  CD2 LEU P  73     109.256  78.712  21.699  1.00 56.60      PS16
ATOM  48564  C   LEU P  73     105.575  78.931  19.247  1.00 35.01      PS16
ATOM  48565  O   LEU P  73     104.951  79.924  19.617  1.00 35.01      PS16
ATOM  48566  N   LEU P  74     105.366  78.349  18.074  1.00 33.33      PS16
ATOM  48567  CA  LEU P  74     104.344  78.867  17.190  1.00 33.33      PS16
ATOM  48568  CB  LEU P  74     104.103  77.923  16.021  1.00 28.09      PS16
ATOM  48569  CG  LEU P  74     105.189  77.873  14.962  1.00 28.09      PS16
ATOM  48570  CD1 LEU P  74     104.605  77.282  13.688  1.00 28.09      PS16
ATOM  48571  CD2 LEU P  74     105.705  79.275  14.704  1.00 28.09      PS16
ATOM  48572  C   LEU P  74     103.073  78.994  17.995  1.00 33.33      PS16
ATOM  48573  O   LEU P  74     102.462  80.057  18.052  1.00 33.33      PS16
ATOM  48574  N   ARG P  75     102.673  77.902  18.629  1.00 47.14      PS16
ATOM  48575  CA  ARG P  75     101.463  77.936  19.430  1.00 47.14      PS16
ATOM  48576  CB  ARG P  75     101.374  76.683  20.312  1.00 61.79      PS16
ATOM  48577  CG  ARG P  75     100.004  76.441  20.967  1.00 61.79      PS16
ATOM  48578  CD  ARG P  75      99.963  75.100  21.714  1.00 61.79      PS16
ATOM  48579  NE  ARG P  75     100.145  73.953  20.822  1.00 61.79      PS16
ATOM  48580  CZ  ARG P  75      99.322  73.649  19.820  1.00 61.79      PS16
ATOM  48581  NH1 ARG P  75      98.256  74.403  19.583  1.00 61.79      PS16
ATOM  48582  NH2 ARG P  75      99.570  72.604  19.043  1.00 61.79      PS16
ATOM  48583  C   ARG P  75     101.498  79.190  20.298  1.00 47.14      PS16
ATOM  48584  O   ARG P  75     100.666  80.085  20.147  1.00 47.14      PS16
ATOM  48585  N   GLN P  76     102.488  79.251  21.180  1.00 36.95      PS16
ATOM  48586  CA  GLN P  76     102.661  80.363  22.101  1.00 36.95      PS16
ATOM  48587  CB  GLN P  76     104.071  80.342  22.684  1.00 68.14      PS16
ATOM  48588  CG  GLN P  76     104.342  81.450  23.677  1.00 68.14      PS16
ATOM  48589  CD  GLN P  76     105.612  81.219  24.464  1.00 68.14      PS16
ATOM  48590  OE1 GLN P  76     106.123  82.128  25.117  1.00 68.14      PS16
ATOM  48591  NE2 GLN P  76     106.126  79.989  24.416  1.00 68.14      PS16
ATOM  48592  C   GLN P  76     102.368  81.736  21.516  1.00 36.95      PS16
ATOM  48593  O   GLN P  76     102.178  82.695  22.253  1.00 36.95      PS16
ATOM  48594  N   ALA P  77     102.340  81.851  20.197  1.00 33.53      PS16
ATOM  48595  CA  ALA P  77     102.034  83.138  19.590  1.00 33.53      PS16
ATOM  48596  CB  ALA P  77     103.118  83.533  18.609  1.00  2.30      PS16
ATOM  48597  C   ALA P  77     100.700  82.983  18.884  1.00 33.53      PS16
ATOM  48598  O   ALA P  77     100.469  83.558  17.828  1.00 33.53      PS16
ATOM  48599  N   GLY P  78      99.824  82.185  19.482  1.00 49.54      PS16
ATOM  48600  CA  GLY P  78      98.512  81.962  18.911  1.00 49.54      PS16
ATOM  48601  C   GLY P  78      98.597  81.815  17.415  1.00 49.54      PS16
ATOM  48602  O   GLY P  78      97.971  82.558  16.657  1.00 49.54      PS16
ATOM  48603  N   VAL P  79      99.409  80.862  16.990  1.00 42.96      PS16
ATOM  48604  CA  VAL P  79      99.574  80.604  15.575  1.00 42.96      PS16
ATOM  48605  CB  VAL P  79     100.968  80.028  15.296  1.00 27.55      PS16
ATOM  48606  CG1 VAL P  79     101.083  79.561  13.856  1.00 27.55      PS16
ATOM  48607  CG2 VAL P  79     101.992  81.092  15.572  1.00 27.55      PS16
ATOM  48608  C   VAL P  79      98.490  79.621  15.175  1.00 42.96      PS16
ATOM  48609  O   VAL P  79      98.213  79.419  13.997  1.00 42.96      PS16
ATOM  48610  N   PHE P  80      97.865  79.016  16.174  1.00 61.29      PS16
ATOM  48611  CA  PHE P  80      96.805  78.070  15.894  1.00 61.29      PS16
ATOM  48612  CB  PHE P  80      97.197  76.656  16.326  1.00 39.02      PS16
ATOM  48613  CG  PHE P  80      98.620  76.275  16.011  1.00 39.02      PS16
ATOM  48614  CD1 PHE P  80      99.657  76.640  16.868  1.00 39.02      PS16
ATOM  48615  CD2 PHE P  80      98.911  75.487  14.896  1.00 39.02      PS16
ATOM  48616  CE1 PHE P  80     100.961  76.218  16.624  1.00 39.02      PS16
ATOM  48617  CE2 PHE P  80     100.207  75.061  14.641  1.00 39.02      PS16
ATOM  48618  CZ  PHE P  80     101.234  75.424  15.507  1.00 39.02      PS16
ATOM  48619  C   PHE P  80      95.522  78.467  16.615  1.00 61.29      PS16
ATOM  48620  O   PHE P  80      94.447  77.970  16.278  1.00 61.29      PS16
ATOM  48621  N   ARG P  81      95.636  79.344  17.614  1.00 71.69      PS16
ATOM  48622  CA  ARG P  81      94.465  79.800  18.362  1.00 71.69      PS16
ATOM  48623  CB  ARG P  81      94.817  80.995  19.253  1.00131.71      PS16
ATOM  48624  CG  ARG P  81      93.602  81.826  19.644  1.00131.71      PS16
ATOM  48625  CD  ARG P  81      93.932  82.950  20.612  1.00131.71      PS16
ATOM  48626  NE  ARG P  81      93.769  82.539  22.004  1.00131.71      PS16
ATOM  48627  CZ  ARG P  81      94.636  81.790  22.677  1.00131.71      PS16
ATOM  48628  NH1 ARG P  81      95.745  81.365  22.087  1.00131.71      PS16
ATOM  48629  NH2 ARG P  81      94.390  81.459  23.940  1.00131.71      PS16
ATOM  48630  C   ARG P  81      93.362  80.203  17.395  1.00 71.69      PS16
ATOM  48631  O   ARG P  81      93.444  81.243  16.744  1.00 71.69      PS16
ATOM  48632  N   GLN P  82      92.328  79.377  17.306  1.00122.63      PS16
ATOM  48633  CA  GLN P  82      91.224  79.644  16.399  1.00122.63      PS16
ATOM  48634  CB  GLN P  82      90.949  78.404  15.552  1.00109.18      PS16
ATOM  48635  CG  GLN P  82      90.571  77.181  16.368  1.00109.18      PS16
ATOM  48636  CD  GLN P  82      90.672  75.896  15.570  1.00109.18      PS16
ATOM  48637  OE1 GLN P  82      90.166  75.804  14.448  1.00109.18      PS16
ATOM  48638  NE2 GLN P  82      91.324  74.890  16.147  1.00109.18      PS16
ATOM  48639  C   GLN P  82      89.968  80.033  17.154  1.00122.63      PS16
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ATOM  48640  O   GLN P  82      88.864  79.694  16.739  1.00122.63      PS16
ATOM  48641  N   GLU P  83      90.136  80.754  18.257  1.00135.72      PS16
ATOM  48642  CA  GLU P  83      89.002  81.174  19.073  1.00135.72      PS16
ATOM  48643  CB  GLU P  83      89.481  82.095  20.198  1.00143.88      PS16
ATOM  48644  CG  GLU P  83      90.468  81.440  21.156  1.00143.88      PS16
ATOM  48645  CD  GLU P  83      89.901  80.199  21.821  1.00143.88      PS16
ATOM  48646  OE1 GLU P  83      88.834  80.305  22.460  1.00143.88      PS16
ATOM  48647  OE2 GLU P  83      90.519  79.118  21.708  1.00143.88      PS16
ATOM  48648  C   GLU P  83      87.915  81.875  18.259  1.00135.72      PS16
ATOM  48649  O   GLU P  83      88.159  82.171  17.067  1.00135.72      PS16
ATOM  48650  OXT GLU P  83      86.827  82.117  18.829  1.00143.88      PS16
TER   48650       GLU P  83                                              PS16
ATOM  48651  CB  PRO Q   2     112.905  87.489 -21.479  1.00118.34      QS17
ATOM  48652  CG  PRO Q   2     112.136  87.779 -20.215  1.00118.34      QS17
ATOM  48653  C   PRO Q   2     113.495  85.319 -22.549  1.00 38.77      QS17
ATOM  48654  O   PRO Q   2     114.689  85.431 -22.295  1.00 38.77      QS17
ATOM  48655  N   PRO Q   2     112.222  85.442 -20.438  1.00 38.77      QS17
ATOM  48656  CD  PRO Q   2     112.225  86.480 -19.393  1.00118.34      QS17
ATOM  48657  CA  PRO Q   2     112.459  86.066 -21.748  1.00 38.77      QS17
ATOM  48658  N   LYS Q   3     113.028  84.535 -23.510  1.00 28.64      QS17
ATOM  48659  CA  LYS Q   3     113.931  83.797 -24.363  1.00 28.64      QS17
ATOM  48660  CB  LYS Q   3     113.152  82.936 -25.345  1.00 48.31      QS17
ATOM  48661  CG  LYS Q   3     112.538  81.720 -24.704  1.00 48.31      QS17
ATOM  48662  CD  LYS Q   3     111.959  80.799 -25.755  1.00 48.31      QS17
ATOM  48663  CE  LYS Q   3     111.684  79.419 -25.183  1.00 48.31      QS17
ATOM  48664  NZ  LYS Q   3     110.765  79.452 -24.009  1.00 48.31      QS17
ATOM  48665  C   LYS Q   3     114.732  84.828 -25.114  1.00 28.64      QS17
ATOM  48666  O   LYS Q   3     114.170  85.654 -25.820  1.00 28.64      QS17
ATOM  48667  N   LYS Q   4     116.043  84.794 -24.937  1.00 27.42      QS17
ATOM  48668  CA  LYS Q   4     116.938  85.727 -25.613  1.00 27.42      QS17
ATOM  48669  CB  LYS Q   4     118.387  85.332 -25.323  1.00 56.98      QS17
ATOM  48670  CG  LYS Q   4     119.433  86.305 -25.834  1.00 56.98      QS17
ATOM  48671  CD  LYS Q   4     119.413  87.553 -24.993  1.00 56.98      QS17
ATOM  48672  CE  LYS Q   4     120.600  88.441 -25.252  1.00 56.98      QS17
ATOM  48673  NZ  LYS Q   4     120.554  89.565 -24.276  1.00 56.98      QS17
ATOM  48674  C   LYS Q   4     116.743  85.784 -27.141  1.00 27.42      QS17
ATOM  48675  O   LYS Q   4     116.545  84.755 -27.804  1.00 27.42      QS17
ATOM  48676  N   VAL Q   5     116.803  86.987 -27.702  1.00 26.14      QS17
ATOM  48677  CA  VAL Q   5     116.688  87.137 -29.150  1.00 26.14      QS17
ATOM  48678  CB  VAL Q   5     115.393  87.853 -29.552  1.00 18.22      QS17
ATOM  48679  CG1 VAL Q   5     115.334  87.978 -31.066  1.00 18.22      QS17
ATOM  48680  CG2 VAL Q   5     114.193  87.089 -29.037  1.00 18.22      QS17
ATOM  48681  C   VAL Q   5     117.879  87.946 -29.651  1.00 26.14      QS17
ATOM  48682  O   VAL Q   5     118.213  88.978 -29.080  1.00 26.14      QS17
ATOM  48683  N   LEU Q   6     118.526  87.475 -30.710  1.00 32.41      QS17
ATOM  48684  CA  LEU Q   6     119.681  88.182 -31.243  1.00 32.41      QS17
ATOM  48685  CB  LEU Q   6     120.944  87.362 -31.031  1.00 22.62      QS17
ATOM  48686  CG  LEU Q   6     121.177  86.965 -29.582  1.00 22.62      QS17
ATOM  48687  CD1 LEU Q   6     122.565  86.385 -29.437  1.00 22.62      QS17
ATOM  48688  CD2 LEU Q   6     121.011  88.181 -28.693  1.00 22.62      QS17
ATOM  48689  C   LEU Q   6     119.545  88.511 -32.716  1.00 32.41      QS17
ATOM  48690  O   LEU Q   6     118.736  87.907 -33.419  1.00 32.41      QS17
ATOM  48691  N   THR Q   7     120.355  89.462 -33.181  1.00 28.71      QS17
ATOM  48692  CA  THR Q   7     120.309  89.885 -34.575  1.00 28.71      QS17
ATOM  48693  CB  THR Q   7     119.856  91.334 -34.669  1.00 51.09      QS17
ATOM  48694  OG1 THR Q   7     118.814  91.562 -33.716  1.00 51.09      QS17
ATOM  48695  CG2 THR Q   7     119.319  91.624 -36.040  1.00 51.09      QS17
ATOM  48696  C   THR Q   7     121.655  89.763 -35.265  1.00 28.71      QS17
ATOM  48697  O   THR Q   7     122.643  90.322 -34.801  1.00 28.71      QS17
ATOM  48698  N   GLY Q   8     121.688  89.049 -36.385  1.00 40.55      QS17
ATOM  48699  CA  GLY Q   8     122.943  88.889 -37.100  1.00 40.55      QS17
ATOM  48700  C   GLY Q   8     122.816  88.575 -38.579  1.00 40.55      QS17
ATOM  48701  O   GLY Q   8     121.712  88.546 -39.121  1.00 40.55      QS17
ATOM  48702  N   VAL Q   9     123.951  88.330 -39.228  1.00 34.99      QS17
ATOM  48703  CA  VAL Q   9     123.969  88.018 -40.649  1.00 34.99      QS17
ATOM  48704  CB  VAL Q   9     125.045  88.794 -41.363  1.00 59.90      QS17
ATOM  48705  CG1 VAL Q   9     125.019  88.450 -42.838  1.00 59.90      QS17
ATOM  48706  CG2 VAL Q   9     124.827  90.266 -41.150  1.00 59.90      QS17
ATOM  48707  C   VAL Q   9     124.221  86.556 -40.936  1.00 34.99      QS17
ATOM  48708  O   VAL Q   9     125.005  85.920 -40.249  1.00 34.99      QS17
ATOM  48709  N   VAL Q  10     123.577  86.038 -41.975  1.00 54.92      QS17
ATOM  48710  CA  VAL Q  10     123.720  84.636 -42.359  1.00 54.92      QS17
ATOM  48711  CB  VAL Q  10     122.513  84.178 -43.186  1.00 65.70      QS17
ATOM  48712  CG1 VAL Q  10     122.456  82.666 -43.228  1.00 65.70      QS17
ATOM  48713  CG2 VAL Q  10     121.248  84.755 -42.609  1.00 65.70      QS17
ATOM  48714  C   VAL Q  10     124.978  84.387 -43.196  1.00 54.92      QS17
ATOM  48715  O   VAL Q  10     124.908  84.289 -44.418  1.00 54.92      QS17
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ATOM  48716  N   VAL Q  11     126.123  84.260 -42.544  1.00 26.37      QS17
ATOM  48717  CA  VAL Q  11     127.360  84.041 -43.263  1.00 26.37      QS17
ATOM  48718  CB  VAL Q  11     128.548  84.368 -42.383  1.00 18.48      QS17
ATOM  48719  CG1 VAL Q  11     128.402  85.743 -41.821  1.00 18.48      QS17
ATOM  48720  CG2 VAL Q  11     128.651  83.353 -41.275  1.00 18.48      QS17
ATOM  48721  C   VAL Q  11     127.541  82.611 -43.780  1.00 26.37      QS17
ATOM  48722  O   VAL Q  11     128.632  82.253 -44.242  1.00 26.37      QS17
ATOM  48723  N   SER Q  12     126.507  81.778 -43.699  1.00 64.81      QS17
ATOM  48724  CA  SER Q  12     126.640  80.409 -44.201  1.00 64.81      QS17
ATOM  48725  CB  SER Q  12     127.548  79.580 -43.303  1.00 37.49      QS17
ATOM  48726  OG  SER Q  12     127.521  78.219 -43.699  1.00 37.49      QS17
ATOM  48727  C   SER Q  12     125.355  79.636 -44.388  1.00 64.81      QS17
ATOM  48728  O   SER Q  12     124.509  79.596 -43.495  1.00 64.81      QS17
ATOM  48729  N   ASP Q  13     125.237  79.007 -45.555  1.00 73.47      QS17
ATOM  48730  CA  ASP Q  13     124.084  78.195 -45.899  1.00 73.47      QS17
ATOM  48731  CB  ASP Q  13     123.189  78.922 -46.908  1.00167.49      QS17
ATOM  48732  CG  ASP Q  13     121.844  78.231 -47.105  1.00167.49      QS17
ATOM  48733  OD1 ASP Q  13     121.035  78.719 -47.922  1.00167.49      QS17
ATOM  48734  OD2 ASP Q  13     121.590  77.201 -46.442  1.00167.49      QS17
ATOM  48735  C   ASP Q  13     124.590  76.887 -46.501  1.00 73.47      QS17
ATOM  48736  O   ASP Q  13     123.907  76.256 -47.310  1.00 73.47      QS17
ATOM  48737  N   LYS Q  14     125.787  76.470 -46.100  1.00 80.89      QS17
ATOM  48738  CA  LYS Q  14     126.355  75.234 -46.627  1.00 80.89      QS17
ATOM  48739  CB  LYS Q  14     127.886  75.289 -46.572  1.00114.73      QS17
ATOM  48740  CG  LYS Q  14     128.488  76.367 -47.465  1.00114.73      QS17
ATOM  48741  CD  LYS Q  14     129.989  76.191 -47.636  1.00114.73      QS17
ATOM  48742  CE  LYS Q  14     130.738  76.427 -46.336  1.00114.73      QS17
ATOM  48743  NZ  LYS Q  14     132.202  76.178 -46.490  1.00114.73      QS17
ATOM  48744  C   LYS Q  14     125.848  73.971 -45.931  1.00 80.89      QS17
ATOM  48745  O   LYS Q  14     126.062  72.863 -46.417  1.00 80.89      QS17
ATOM  48746  N   MET Q  15     125.174  74.135 -44.798  1.00 70.68      QS17
ATOM  48747  CA  MET Q  15     124.632  72.999 -44.061  1.00 70.68      QS17
ATOM  48748  CB  MET Q  15     124.686  73.264 -42.555  1.00 60.13      QS17
ATOM  48749  CG  MET Q  15     126.093  73.327 -41.992  1.00 60.13      QS17
ATOM  48750  SD  MET Q  15     126.157  73.631 -40.212  1.00 60.13      QS17
ATOM  48751  CE  MET Q  15     125.510  75.318 -40.163  1.00 60.13      QS17
ATOM  48752  C   MET Q  15     123.186  72.738 -44.475  1.00 70.68      QS17
ATOM  48753  O   MET Q  15     122.612  73.490 -45.274  1.00 70.68      QS17
ATOM  48754  N   GLN Q  16     122.607  71.668 -43.931  1.00 52.54      QS17
ATOM  48755  CA  GLN Q  16     121.225  71.298 -44.217  1.00 52.54      QS17
ATOM  48756  CB  GLN Q  16     121.105  69.787 -44.384  1.00 78.93      QS17
ATOM  48757  CG  GLN Q  16     121.686  69.257 -45.671  1.00 78.93      QS17
ATOM  48758  CD  GLN Q  16     121.434  67.775 -45.837  1.00 78.93      QS17
ATOM  48759  OE1 GLN Q  16     121.730  67.191 -46.882  1.00 78.93      QS17
ATOM  48760  NE2 GLN Q  16     120.886  67.153 -44.802  1.00 78.93      QS17
ATOM  48761  C   GLN Q  16     120.302  71.742 -43.094  1.00 52.54      QS17
ATOM  48762  O   GLN Q  16     120.407  71.244 -41.980  1.00 52.54      QS17
ATOM  48763  N   LYS Q  17     119.403  72.679 -43.387  1.00 39.97      QS17
ATOM  48764  CA  LYS Q  17     118.447  73.177 -42.392  1.00 39.97      QS17
ATOM  48765  CB  LYS Q  17     117.693  72.008 -41.748  1.00 51.49      QS17
ATOM  48766  CG  LYS Q  17     116.673  71.336 -42.644  1.00 51.49      QS17
ATOM  48767  CD  LYS Q  17     116.236  69.999 -42.068  1.00 51.49      QS17
ATOM  48768  CE  LYS Q  17     115.070  69.434 -42.850  1.00 51.49      QS17
ATOM  48769  NZ  LYS Q  17     114.938  67.964 -42.706  1.00 51.49      QS17
ATOM  48770  C   LYS Q  17     119.048  74.029 -41.278  1.00 39.97      QS17
ATOM  48771  O   LYS Q  17     118.342  74.431 -40.353  1.00 39.97      QS17
ATOM  48772  N   THR Q  18     120.345  74.297 -41.355  1.00 38.68      QS17
ATOM  48773  CA  THR Q  18     121.013  75.097 -40.335  1.00 38.68      QS17
ATOM  48774  CB  THR Q  18     122.111  74.266 -39.606  1.00 60.01      QS17
ATOM  48775  OG1 THR Q  18     121.668  72.913 -39.439  1.00 60.01      QS17
ATOM  48776  CG2 THR Q  18     122.425  74.865 -38.230  1.00 60.01      QS17
ATOM  48777  C   THR Q  18     121.693  76.260 -41.042  1.00 38.68      QS17
ATOM  48778  O   THR Q  18     122.169  76.084 -42.161  1.00 38.68      QS17
ATOM  48779  N   VAL Q  19     121.740  77.437 -40.417  1.00 40.33      QS17
ATOM  48780  CA  VAL Q  19     122.429  78.584 -41.032  1.00 40.33      QS17
ATOM  48781  CB  VAL Q  19     121.459  79.541 -41.702  1.00 19.94      QS17
ATOM  48782  CG1 VAL Q  19     120.756  78.824 -42.842  1.00 19.94      QS17
ATOM  48783  CG2 VAL Q  19     120.481  80.091 -40.674  1.00 19.94      QS17
ATOM  48784  C   VAL Q  19     123.273  79.388 -40.048  1.00 40.33      QS17
ATOM  48785  O   VAL Q  19     122.766  79.878 -39.050  1.00 40.33      QS17
ATOM  48786  N   THR Q  20     124.561  79.540 -40.340  1.00 27.05      QS17
ATOM  48787  CA  THR Q  20     125.423  80.266 -39.426  1.00 27.05      QS17
ATOM  48788  CB  THR Q  20     126.904  80.085 -39.745  1.00 63.48      QS17
ATOM  48789  OG1 THR Q  20     127.230  78.692 -39.783  1.00 63.48      QS17
ATOM  48790  CG2 THR Q  20     127.733  80.744 -38.666  1.00 63.48      QS17
ATOM  48791  C   THR Q  20     125.141  81.745 -39.418  1.00 27.05      QS17
ATOM  48792  O   THR Q  20     125.344  82.434 -40.408  1.00 27.05      QS17
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ATOM  48793  N   VAL Q  21     124.668  82.225 -38.282  1.00 39.34      QS17
ATOM  48794  CA  VAL Q  21     124.375  83.628 -38.127  1.00 39.34      QS17
ATOM  48795  CB  VAL Q  21     123.069  83.852 -37.391  1.00 17.92      QS17
ATOM  48796  CG1 VAL Q  21     122.703  85.317 -37.438  1.00 17.92      QS17
ATOM  48797  CG2 VAL Q  21     121.989  83.040 -38.025  1.00 17.92      QS17
ATOM  48798  C   VAL Q  21     125.501  84.225 -37.317  1.00 39.34      QS17
ATOM  48799  O   VAL Q  21     126.042  83.592 -36.412  1.00 39.34      QS17
ATOM  48800  N   LEU Q  22     125.845  85.459 -37.628  1.00 36.45      QS17
ATOM  48801  CA  LEU Q  22     126.937  86.096 -36.948  1.00 36.45      QS17
ATOM  48802  CB  LEU Q  22     127.996  86.437 -37.983  1.00 21.94      QS17
ATOM  48803  CG  LEU Q  22     129.148  87.326 -37.555  1.00 21.94      QS17
ATOM  48804  CD1 LEU Q  22     129.465  87.154 -36.075  1.00 21.94      QS17
ATOM  48805  CD2 LEU Q  22     130.331  86.986 -38.437  1.00 21.94      QS17
ATOM  48806  C   LEU Q  22     126.489  87.316 -36.177  1.00 36.45      QS17
ATOM  48807  O   LEU Q  22     126.315  88.390 -36.735  1.00 36.45      QS17
ATOM  48808  N   VAL Q  23     126.332  87.150 -34.874  1.00 33.11      QS17
ATOM  48809  CA  VAL Q  23     125.868  88.236 -34.017  1.00 33.11      QS17
ATOM  48810  CB  VAL Q  23     125.065  87.666 -32.823  1.00 47.16      QS17
ATOM  48811  CG1 VAL Q  23     124.342  88.779 -32.107  1.00 47.16      QS17
ATOM  48812  CG2 VAL Q  23     124.089  86.609 -33.297  1.00 47.16      QS17
ATOM  48813  C   VAL Q  23     126.957  89.148 -33.447  1.00 33.11      QS17
ATOM  48814  O   VAL Q  23     127.787  88.690 -32.666  1.00 33.11      QS17
ATOM  48815  N   GLU Q  24     126.945  90.431 -33.817  1.00 51.09      QS17
ATOM  48816  CA  GLU Q  24     127.924  91.391 -33.288  1.00 51.09      QS17
ATOM  48817  CB  GLU Q  24     128.191  92.526 -34.281  1.00144.46      QS17
ATOM  48818  CG  GLU Q  24     129.012  92.133 -35.497  1.00144.46      QS17
ATOM  48819  CD  GLU Q  24     129.819  93.297 -36.054  1.00144.46      QS17
ATOM  48820  OE1 GLU Q  24     129.234  94.378 -36.276  1.00144.46      QS17
ATOM  48821  OE2 GLU Q  24     131.039  93.130 -36.273  1.00144.46      QS17
ATOM  48822  C   GLU Q  24     127.403  91.988 -31.981  1.00 51.09      QS17
ATOM  48823  O   GLU Q  24     126.194  92.114 -31.793  1.00 51.09      QS17
ATOM  48824  N   ARG Q  25     128.315  92.368 -31.089  1.00 25.61      QS17
ATOM  48825  CA  ARG Q  25     127.949  92.931 -29.786  1.00 25.61      QS17
ATOM  48826  CB  ARG Q  25     128.024  91.829 -28.732  1.00 34.33      QS17
ATOM  48827  CG  ARG Q  25     127.970  92.337 -27.301  1.00 34.33      QS17
ATOM  48828  CD  ARG Q  25     128.061  91.198 -26.283  1.00 34.33      QS17
ATOM  48829  NE  ARG Q  25     129.214  90.346 -26.551  1.00 34.33      QS17
ATOM  48830  CZ  ARG Q  25     130.155  90.072 -25.659  1.00 34.33      QS17
ATOM  48831  NH1 ARG Q  25     130.077  90.578 -24.432  1.00 34.33      QS17
ATOM  48832  NH2 ARG Q  25     131.182  89.310 -26.008  1.00 34.33      QS17
ATOM  48833  C   ARG Q  25     128.881  94.065 -29.383  1.00 25.61      QS17
ATOM  48834  O   ARG Q  25     130.087  93.957 -29.573  1.00 25.61      QS17
ATOM  48835  N   GLN Q  26     128.352  95.152 -28.833  1.00 21.32      QS17
ATOM  48836  CA  GLN Q  26     129.223  96.260 -28.411  1.00 21.32      QS17
ATOM  48837  CB  GLN Q  26     128.754  97.592 -28.987  1.00109.09      QS17
ATOM  48838  CG  GLN Q  26     129.077  97.829 -30.434  1.00109.09      QS17
ATOM  48839  CD  GLN Q  26     128.934  99.292 -30.800  1.00109.09      QS17
ATOM  48840  OE1 GLN Q  26     127.955  99.945 -30.427  1.00109.09      QS17
ATOM  48841  NE2 GLN Q  26     129.908  99.818 -31.534  1.00109.09      QS17
ATOM  48842  C   GLN Q  26     129.259  96.406 -26.902  1.00 21.32      QS17
ATOM  48843  O   GLN Q  26     128.369  95.933 -26.216  1.00 21.32      QS17
ATOM  48844  N   PHE Q  27     130.273  97.079 -26.377  1.00 36.75      QS17
ATOM  48845  CA  PHE Q  27     130.346  97.284 -24.938  1.00 36.75      QS17
ATOM  48846  CB  PHE Q  27     130.078  95.986 -24.202  1.00 31.58      QS17
ATOM  48847  CG  PHE Q  27     131.164  94.985 -24.333  1.00 31.58      QS17
ATOM  48848  CD1 PHE Q  27     132.316  95.089 -23.571  1.00 31.58      QS17
ATOM  48849  CD2 PHE Q  27     131.019  93.897 -25.181  1.00 31.58      QS17
ATOM  48850  CE1 PHE Q  27     133.320  94.108 -23.645  1.00 31.58      QS17
ATOM  48851  CE2 PHE Q  27     132.017  92.908 -25.263  1.00 31.58      QS17
ATOM  48852  CZ  PHE Q  27     133.167  93.015 -24.491  1.00 31.58      QS17
ATOM  48853  C   PHE Q  27     131.655  97.856 -24.438  1.00 36.75      QS17
ATOM  48854  O   PHE Q  27     132.725  97.552 -24.960  1.00 36.75      QS17
ATOM  48855  N   PRO Q  28     131.582  98.682 -23.389  1.00 46.77      QS17
ATOM  48856  CD  PRO Q  28     130.396  98.881 -22.546  1.00 41.59      QS17
ATOM  48857  CA  PRO Q  28     132.740  99.324 -22.775  1.00 46.77      QS17
ATOM  48858  CB  PRO Q  28     132.129 100.128 -21.655  1.00 41.59      QS17
ATOM  48859  CG  PRO Q  28     131.025  99.239 -21.222  1.00 41.59      QS17
ATOM  48860  C   PRO Q  28     133.638  98.271 -22.226  1.00 46.77      QS17
ATOM  48861  O   PRO Q  28     133.174  97.238 -21.753  1.00 46.77      QS17
ATOM  48862  N   HIS Q  29     134.929  98.540 -22.288  1.00 23.56      QS17
ATOM  48863  CA  HIS Q  29     135.911  97.615 -21.777  1.00 23.56      QS17
ATOM  48864  CB  HIS Q  29     137.280  97.996 -22.319  1.00 45.61      QS17
ATOM  48865  CG  HIS Q  29     138.378  97.111 -21.846  1.00 45.61      QS17
ATOM  48866  CD2 HIS Q  29     139.082  96.147 -22.484  1.00 45.61      QS17
ATOM  48867  ND1 HIS Q  29     138.838  97.133 -20.548  1.00 45.61      QS17
ATOM  48868  CE1 HIS Q  29     139.777  96.217 -20.407  1.00 45.61      QS17
ATOM  48869  NE2 HIS Q  29     139.945  95.604 -21.566  1.00 45.61      QS17
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ATOM  48870  C   HIS Q  29     135.842  97.782 -20.266  1.00 23.56      QS17
ATOM  48871  O   HIS Q  29     135.653  98.884 -19.764  1.00 23.56      QS17
ATOM  48872  N   PRO Q  30     135.966  96.686 -19.520  1.00 25.18      QS17
ATOM  48873  CD  PRO Q  30     136.395  95.368 -19.993  1.00 53.24      QS17
ATOM  48874  CA  PRO Q  30     135.915  96.704 -18.060  1.00 25.18      QS17
ATOM  48875  CB  PRO Q  30     136.154  95.254 -17.699  1.00 53.24      QS17
ATOM  48876  CG  PRO Q  30     137.091  94.827 -18.773  1.00 53.24      QS17
ATOM  48877  C   PRO Q  30     136.913  97.625 -17.360  1.00 25.18      QS17
ATOM  48878  O   PRO Q  30     136.608  98.178 -16.302  1.00 25.18      QS17
ATOM  48879  N   LEU Q  31     138.106  97.789 -17.922  1.00 36.05      QS17
ATOM  48880  CA  LEU Q  31     139.090  98.646 -17.275  1.00 36.05      QS17
ATOM  48881  CB  LEU Q  31     140.383  97.868 -17.022  1.00 30.84      QS17
ATOM  48882  CG  LEU Q  31     141.621  98.694 -16.637  1.00 30.84      QS17
ATOM  48883  CD1 LEU Q  31     141.349  99.607 -15.446  1.00 30.84      QS17
ATOM  48884  CD2 LEU Q  31     142.739  97.748 -16.319  1.00 30.84      QS17
ATOM  48885  C   LEU Q  31     139.418  99.908 -18.047  1.00 36.05      QS17
ATOM  48886  O   LEU Q  31     139.708 100.953 -17.457  1.00 36.05      QS17
ATOM  48887  N   TYR Q  32     139.371  99.812 -19.366  1.00 23.84      QS17
ATOM  48888  CA  TYR Q  32     139.706 100.947 -20.194  1.00 23.84      QS17
ATOM  48889  CB  TYR Q  32     140.658 100.475 -21.293  1.00 33.52      QS17
ATOM  48890  CG  TYR Q  32     141.929  99.885 -20.696  1.00 33.52      QS17
ATOM  48891  CD1 TYR Q  32     142.444  98.652 -21.121  1.00 33.52      QS17
ATOM  48892  CE1 TYR Q  32     143.568  98.092 -20.508  1.00 33.52      QS17
ATOM  48893  CD2 TYR Q  32     142.577 100.538 -19.655  1.00 33.52      QS17
ATOM  48894  CE2 TYR Q  32     143.689  99.989 -19.044  1.00 33.52      QS17
ATOM  48895  CZ  TYR Q  32     144.183  98.772 -19.465  1.00 33.52      QS17
ATOM  48896  OH  TYR Q  32     145.283  98.266 -18.803  1.00 33.52      QS17
ATOM  48897  C   TYR Q  32     138.452 101.601 -20.733  1.00 23.84      QS17
ATOM  48898  O   TYR Q  32     138.495 102.628 -21.391  1.00 23.84      QS17
ATOM  48899  N   GLY Q  33     137.318 100.995 -20.439  1.00 22.76      QS17
ATOM  48900  CA  GLY Q  33     136.052 101.561 -20.851  1.00 22.76      QS17
ATOM  48901  C   GLY Q  33     135.791 101.987 -22.273  1.00 22.76      QS17
ATOM  48902  O   GLY Q  33     134.708 102.482 -22.540  1.00 22.76      QS17
ATOM  48903  N   LYS Q  34     136.725 101.835 -23.197  1.00 14.02      QS17
ATOM  48904  CA  LYS Q  34     136.387 102.247 -24.551  1.00 14.02      QS17
ATOM  48905  CB  LYS Q  34     137.609 102.228 -25.463  1.00 42.00      QS17
ATOM  48906  CG  LYS Q  34     137.960 100.880 -26.021  1.00 42.00      QS17
ATOM  48907  CD  LYS Q  34     138.009 100.919 -27.545  1.00 42.00      QS17
ATOM  48908  CE  LYS Q  34     139.072 101.895 -28.073  1.00 42.00      QS17
ATOM  48909  NZ  LYS Q  34     139.224 101.811 -29.570  1.00 42.00      QS17
ATOM  48910  C   LYS Q  34     135.360 101.229 -25.022  1.00 14.02      QS17
ATOM  48911  O   LYS Q  34     135.370 100.096 -24.569  1.00 14.02      QS17
ATOM  48912  N   VAL Q  35     134.443 101.614 -25.889  1.00 21.54      QS17
ATOM  48913  CA  VAL Q  35     133.481 100.632 -26.350  1.00 21.54      QS17
ATOM  48914  CB  VAL Q  35     132.261 101.292 -27.005  1.00 31.40      QS17
ATOM  48915  CG1 VAL Q  35     131.757 100.438 -28.166  1.00 31.40      QS17
ATOM  48916  CG2 VAL Q  35     131.163 101.452 -25.981  1.00 31.40      QS17
ATOM  48917  C   VAL Q  35     134.166  99.748 -27.374  1.00 21.54      QS17
ATOM  48918  O   VAL Q  35     134.533 100.207 -28.452  1.00 21.54      QS17
ATOM  48919  N   ILE Q  36     134.347  98.479 -27.042  1.00 17.86      QS17
ATOM  48920  CA  ILE Q  36     134.988  97.548 -27.962  1.00 17.86      QS17
ATOM  48921  CB  ILE Q  36     135.816  96.508 -27.205  1.00 37.66      QS17
ATOM  48922  CG2 ILE Q  36     136.591  97.166 -26.069  1.00 37.66      QS17
ATOM  48923  CG1 ILE Q  36     134.871  95.468 -26.605  1.00 37.66      QS17
ATOM  48924  CD1 ILE Q  36     135.540  94.208 -26.155  1.00 37.66      QS17
ATOM  48925  C   ILE Q  36     133.885  96.793 -28.689  1.00 17.86      QS17
ATOM  48926  O   ILE Q  36     132.776  96.683 -28.181  1.00 17.86      QS17
ATOM  48927  N   LYS Q  37     134.169  96.275 -29.873  1.00 48.39      QS17
ATOM  48928  CA  LYS Q  37     133.152  95.496 -30.559  1.00 48.39      QS17
ATOM  48929  CB  LYS Q  37     133.022  95.906 -32.015  1.00 79.43      QS17
ATOM  48930  CG  LYS Q  37     131.874  95.217 -32.713  1.00 79.43      QS17
ATOM  48931  CD  LYS Q  37     131.977  95.352 -34.227  1.00 79.43      QS17
ATOM  48932  CE  LYS Q  37     131.967  96.814 -34.685  1.00 79.43      QS17
ATOM  48933  NZ  LYS Q  37     132.072  96.947 -36.173  1.00 79.43      QS17
ATOM  48934  C   LYS Q  37     133.625  94.057 -30.477  1.00 48.39      QS17
ATOM  48935  O   LYS Q  37     134.816  93.800 -30.370  1.00 48.39      QS17
ATOM  48936  N   ARG Q  38     132.703  93.114 -30.511  1.00 39.43      QS17
ATOM  48937  CA  ARG Q  38     133.086  91.713 -30.437  1.00 39.43      QS17
ATOM  48938  CB  ARG Q  38     133.176  91.288 -28.976  1.00 55.31      QS17
ATOM  48939  CG  ARG Q  38     134.111  90.128 -28.734  1.00 55.31      QS17
ATOM  48940  CD  ARG Q  38     135.455  90.576 -28.165  1.00 55.31      QS17
ATOM  48941  NE  ARG Q  38     136.183  91.523 -29.012  1.00 55.31      QS17
ATOM  48942  CZ  ARG Q  38     137.362  92.043 -28.679  1.00 55.31      QS17
ATOM  48943  NH1 ARG Q  38     137.933  91.703 -27.530  1.00 55.31      QS17
ATOM  48944  NH2 ARG Q  38     137.969  92.907 -29.479  1.00 55.31      QS17
ATOM  48945  C   ARG Q  38     132.008  90.915 -31.169  1.00 39.43      QS17
ATOM  48946  O   ARG Q  38     131.014  91.489 -31.608  1.00 39.43      QS17
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ATOM  48947  N   SER Q  39     132.172  89.610 -31.321  1.00 45.11      QS17
ATOM  48948  CA  SER Q  39     131.141  88.871 -32.030  1.00 45.11      QS17
ATOM  48949  CB  SER Q  39     131.187  89.234 -33.512  1.00 37.53      QS17
ATOM  48950  OG  SER Q  39     132.434  88.915 -34.078  1.00 37.53      QS17
ATOM  48951  C   SER Q  39     131.157  87.357 -31.855  1.00 45.11      QS17
ATOM  48952  O   SER Q  39     132.092  86.804 -31.271  1.00 45.11      QS17
ATOM  48953  N   LYS Q  40     130.121  86.696 -32.380  1.00 27.70      QS17
ATOM  48954  CA  LYS Q  40     129.973  85.252 -32.245  1.00 27.70      QS17
ATOM  48955  CB  LYS Q  40     129.444  84.988 -30.842  1.00 22.18      QS17
ATOM  48956  CG  LYS Q  40     129.148  83.561 -30.449  1.00 22.18      QS17
ATOM  48957  CD  LYS Q  40     128.763  83.575 -28.963  1.00 22.18      QS17
ATOM  48958  CE  LYS Q  40     128.150  82.287 -28.473  1.00 22.18      QS17
ATOM  48959  NZ  LYS Q  40     127.495  82.529 -27.162  1.00 22.18      QS17
ATOM  48960  C   LYS Q  40     129.037  84.654 -33.305  1.00 27.70      QS17
ATOM  48961  O   LYS Q  40     128.110  85.313 -33.782  1.00 27.70      QS17
ATOM  48962  N   LYS Q  41     129.273  83.405 -33.685  1.00 35.64      QS17
ATOM  48963  CA  LYS Q  41     128.427  82.776 -34.690  1.00 35.64      QS17
ATOM  48964  CB  LYS Q  41     129.258  82.104 -35.779  1.00 32.84      QS17
ATOM  48965  CG  LYS Q  41     130.178  83.040 -36.514  1.00 32.84      QS17
ATOM  48966  CD  LYS Q  41     131.040  82.317 -37.537  1.00 32.84      QS17
ATOM  48967  CE  LYS Q  41     131.947  81.298 -36.885  1.00 32.84      QS17
ATOM  48968  NZ  LYS Q  41     132.956  80.760 -37.842  1.00 32.84      QS17
ATOM  48969  C   LYS Q  41     127.577  81.722 -34.054  1.00 35.64      QS17
ATOM  48970  O   LYS Q  41     128.081  80.875 -33.321  1.00 35.64      QS17
ATOM  48971  N   TYR Q  42     126.286  81.771 -34.340  1.00 28.44      QS17
ATOM  48972  CA  TYR Q  42     125.358  80.780 -33.824  1.00 28.44      QS17
ATOM  48973  CB  TYR Q  42     124.174  81.466 -33.138  1.00 28.95      QS17
ATOM  48974  CG  TYR Q  42     124.557  82.311 -31.950  1.00 28.95      QS17
ATOM  48975  CD1 TYR Q  42     125.126  83.564 -32.122  1.00 28.95      QS17
ATOM  48976  CE1 TYR Q  42     125.502  84.334 -31.029  1.00 28.95      QS17
ATOM  48977  CD2 TYR Q  42     124.373  81.843 -30.649  1.00 28.95      QS17
ATOM  48978  CE2 TYR Q  42     124.750  82.606 -29.546  1.00 28.95      QS17
ATOM  48979  CZ  TYR Q  42     125.314  83.852 -29.745  1.00 28.95      QS17
ATOM  48980  OH  TYR Q  42     125.703  84.619 -28.666  1.00 28.95      QS17
ATOM  48981  C   TYR Q  42     124.854  79.928 -34.990  1.00 28.44      QS17
ATOM  48982  O   TYR Q  42     124.780  80.403 -36.120  1.00 28.44      QS17
ATOM  48983  N   LEU Q  43     124.538  78.664 -34.731  1.00 37.22      QS17
ATOM  48984  CA  LEU Q  43     124.002  77.812 -35.784  1.00 37.22      QS17
ATOM  48985  CB  LEU Q  43     124.537  76.388 -35.685  1.00 24.79      QS17
ATOM  48986  CG  LEU Q  43     126.005  76.250 -36.070  1.00 24.79      QS17
ATOM  48987  CD1 LEU Q  43     126.309  74.803 -36.363  1.00 24.79      QS17
ATOM  48988  CD2 LEU Q  43     126.288  77.091 -37.310  1.00 24.79      QS17
ATOM  48989  C   LEU Q  43     122.508  77.802 -35.607  1.00 37.22      QS17
ATOM  48990  O   LEU Q  43     121.984  77.079 -34.768  1.00 37.22      QS17
ATOM  48991  N   ALA Q  44     121.826  78.626 -36.387  1.00 41.42      QS17
ATOM  48992  CA  ALA Q  44     120.379  78.720 -36.292  1.00 41.42      QS17
ATOM  48993  CB  ALA Q  44     119.913  80.101 -36.713  1.00 60.14      QS17
ATOM  48994  C   ALA Q  44     119.676  77.660 -37.121  1.00 41.42      QS17
ATOM  48995  O   ALA Q  44     120.147  77.243 -38.188  1.00 41.42      QS17
ATOM  48996  N   HIS Q  45     118.528  77.239 -36.620  1.00 24.79      QS17
ATOM  48997  CA  HIS Q  45     117.767  76.225 -37.291  1.00 24.79      QS17
ATOM  48998  CB  HIS Q  45     116.995  75.411 -36.261  1.00 39.06      QS17
ATOM  48999  CG  HIS Q  45     116.109  74.369 -36.861  1.00 39.06      QS17
ATOM  49000  CD2 HIS Q  45     114.811  74.063 -36.630  1.00 39.06      QS17
ATOM  49001  ND1 HIS Q  45     116.544  73.496 -37.834  1.00 39.06      QS17
ATOM  49002  CE1 HIS Q  45     115.550  72.698 -38.180  1.00 39.06      QS17
ATOM  49003  NE2 HIS Q  45     114.488  73.021 -37.464  1.00 39.06      QS17
ATOM  49004  C   HIS Q  45     116.813  76.830 -38.300  1.00 24.79      QS17
ATOM  49005  O   HIS Q  45     115.929  77.607 -37.944  1.00 24.79      QS17
ATOM  49006  N   ASP Q  46     117.010  76.480 -39.566  1.00 38.57      QS17
ATOM  49007  CA  ASP Q  46     116.147  76.947 -40.643  1.00 38.57      QS17
ATOM  49008  CB  ASP Q  46     116.931  77.782 -41.653  1.00 76.89      QS17
ATOM  49009  CG  ASP Q  46     116.053  78.328 -42.764  1.00 76.89      QS17
ATOM  49010  OD1 ASP Q  46     116.614  78.903 -43.721  1.00 76.89      QS17
ATOM  49011  OD2 ASP Q  46     114.810  78.184 -42.677  1.00 76.89      QS17
ATOM  49012  C   ASP Q  46     115.625  75.686 -41.313  1.00 38.57      QS17
ATOM  49013  O   ASP Q  46     116.329  75.064 -42.109  1.00 38.57      QS17
ATOM  49014  N   PRO Q  47     114.386  75.284 -40.986  1.00 55.61      QS17
ATOM  49015  CD  PRO Q  47     113.556  75.820 -39.897  1.00 46.57      QS17
ATOM  49016  CA  PRO Q  47     113.768  74.084 -41.551  1.00 55.61      QS17
ATOM  49017  CB  PRO Q  47     112.556  73.854 -40.653  1.00 46.57      QS17
ATOM  49018  CG  PRO Q  47     112.903  74.569 -39.385  1.00 46.57      QS17
ATOM  49019  C   PRO Q  47     113.355  74.237 -42.990  1.00 55.61      QS17
ATOM  49020  O   PRO Q  47     113.569  73.341 -43.796  1.00 55.61      QS17
ATOM  49021  N   GLU Q  48     112.759  75.374 -43.312  1.00 70.88      QS17
ATOM  49022  CA  GLU Q  48     112.290  75.613 -44.664  1.00 70.88      QS17
ATOM  49023  CB  GLU Q  48     111.158  76.640 -44.633  1.00201.30      QS17
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ATOM  49024  CG  GLU Q  48     110.019  76.271 -43.693  1.00201.30      QS17
ATOM  49025  CD  GLU Q  48     108.987  77.376 -43.554  1.00201.30      QS17
ATOM  49026  OE1 GLU Q  48     109.361  78.487 -43.121  1.00201.30      QS17
ATOM  49027  OE2 GLU Q  48     107.804  77.132 -43.877  1.00201.30      QS17
ATOM  49028  C   GLU Q  48     113.392  76.097 -45.591  1.00 70.88      QS17
ATOM  49029  O   GLU Q  48     113.109  76.527 -46.704  1.00 70.88      QS17
ATOM  49030  N   GLU Q  49     114.644  76.017 -45.149  1.00 55.64      QS17
ATOM  49031  CA  GLU Q  49     115.763  76.495 -45.961  1.00 55.64      QS17
ATOM  49032  CB  GLU Q  49     116.043  75.528 -47.116  1.00148.89      QS17
ATOM  49033  CG  GLU Q  49     116.849  74.298 -46.713  1.00148.89      QS17
ATOM  49034  CD  GLU Q  49     118.301  74.626 -46.400  1.00148.89      QS17
ATOM  49035  OE1 GLU Q  49     118.547  75.519 -45.561  1.00148.89      QS17
ATOM  49036  OE2 GLU Q  49     119.198  73.986 -46.993  1.00148.89      QS17
ATOM  49037  C   GLU Q  49     115.386  77.877 -46.494  1.00 55.64      QS17
ATOM  49038  O   GLU Q  49     115.837  78.310 -47.554  1.00 55.64      QS17
ATOM  49039  N   LYS Q  50     114.545  78.559 -45.725  1.00 60.27      QS17
ATOM  49040  CA  LYS Q  50     114.051  79.886 -46.053  1.00 60.27      QS17
ATOM  49041  CB  LYS Q  50     113.045  80.318 -44.981  1.00103.39      QS17
ATOM  49042  CG  LYS Q  50     112.376  81.666 -45.206  1.00103.39      QS17
ATOM  49043  CD  LYS Q  50     111.183  81.821 -44.269  1.00103.39      QS17
ATOM  49044  CE  LYS Q  50     110.364  83.068 -44.575  1.00103.39      QS17
ATOM  49045  NZ  LYS Q  50     109.139  83.142 -43.720  1.00103.39      QS17
ATOM  49046  C   LYS Q  50     115.171  80.914 -46.154  1.00 60.27      QS17
ATOM  49047  O   LYS Q  50     115.271  81.656 -47.131  1.00 60.27      QS17
ATOM  49048  N   TYR Q  51     116.024  80.943 -45.141  1.00 55.91      QS17
ATOM  49049  CA  TYR Q  51     117.116  81.895 -45.095  1.00 55.91      QS17
ATOM  49050  CB  TYR Q  51     117.510  82.100 -43.644  1.00 35.79      QS17
ATOM  49051  CG  TYR Q  51     116.301  82.519 -42.855  1.00 35.79      QS17
ATOM  49052  CD1 TYR Q  51     115.372  81.581 -42.416  1.00 35.79      QS17
ATOM  49053  CE1 TYR Q  51     114.184  81.974 -41.835  1.00 35.79      QS17
ATOM  49054  CD2 TYR Q  51     116.009  83.865 -42.678  1.00 35.79      QS17
ATOM  49055  CE2 TYR Q  51     114.819  84.270 -42.101  1.00 35.79      QS17
ATOM  49056  CZ  TYR Q  51     113.909  83.321 -41.684  1.00 35.79      QS17
ATOM  49057  OH  TYR Q  51     112.719  83.741 -41.133  1.00 35.79      QS17
ATOM  49058  C   TYR Q  51     118.309  81.541 -45.956  1.00 55.91      QS17
ATOM  49059  O   TYR Q  51     118.843  80.436 -45.881  1.00 55.91      QS17
ATOM  49060  N   LYS Q  52     118.701  82.506 -46.785  1.00 46.37      QS17
ATOM  49061  CA  LYS Q  52     119.814  82.370 -47.714  1.00 46.37      QS17
ATOM  49062  CB  LYS Q  52     119.297  82.527 -49.142  1.00118.78      QS17
ATOM  49063  CG  LYS Q  52     118.224  81.502 -49.475  1.00118.78      QS17
ATOM  49064  CD  LYS Q  52     117.504  81.833 -50.763  1.00118.78      QS17
ATOM  49065  CE  LYS Q  52     116.314  80.907 -50.968  1.00118.78      QS17
ATOM  49066  NZ  LYS Q  52     115.506  81.279 -52.165  1.00118.78      QS17
ATOM  49067  C   LYS Q  52     120.914  83.384 -47.408  1.00 46.37      QS17
ATOM  49068  O   LYS Q  52     120.644  84.501 -46.959  1.00 46.37      QS17
ATOM  49069  N   LEU Q  53     122.156  82.971 -47.652  1.00 46.76      QS17
ATOM  49070  CA  LEU Q  53     123.340  83.775 -47.365  1.00 46.76      QS17
ATOM  49071  CB  LEU Q  53     124.529  83.235 -48.153  1.00 43.13      QS17
ATOM  49072  CG  LEU Q  53     125.900  83.672 -47.634  1.00 43.13      QS17
ATOM  49073  CD1 LEU Q  53     127.015  82.812 -48.234  1.00 43.13      QS17
ATOM  49074  CD2 LEU Q  53     126.103  85.132 -47.961  1.00 43.13      QS17
ATOM  49075  C   LEU Q  53     123.178  85.258 -47.629  1.00 46.76      QS17
ATOM  49076  O   LEU Q  53     122.716  85.650 -48.690  1.00 46.76      QS17
ATOM  49077  N   GLY Q  54     123.570  86.078 -46.658  1.00 35.64      QS17
ATOM  49078  CA  GLY Q  54     123.462  87.519 -46.807  1.00 35.64      QS17
ATOM  49079  C   GLY Q  54     122.301  88.165 -46.060  1.00 35.64      QS17
ATOM  49080  O   GLY Q  54     122.316  89.378 -45.807  1.00 35.64      QS17
ATOM  49081  N   ASP Q  55     121.290  87.374 -45.704  1.00 52.07      QS17
ATOM  49082  CA  ASP Q  55     120.135  87.910 -44.986  1.00 52.07      QS17
ATOM  49083  CB  ASP Q  55     118.994  86.891 -44.953  1.00125.24      QS17
ATOM  49084  CG  ASP Q  55     118.583  86.426 -46.330  1.00125.24      QS17
ATOM  49085  OD1 ASP Q  55     118.435  87.278 -47.230  1.00125.24      QS17
ATOM  49086  OD2 ASP Q  55     118.392  85.207 -46.507  1.00125.24      QS17
ATOM  49087  C   ASP Q  55     120.467  88.299 -43.551  1.00 52.07      QS17
ATOM  49088  O   ASP Q  55     121.334  87.704 -42.917  1.00 52.07      QS17
ATOM  49089  N   VAL Q  56     119.769  89.306 -43.047  1.00 46.70      QS17
ATOM  49090  CA  VAL Q  56     119.956  89.752 -41.671  1.00 46.70      QS17
ATOM  49091  CB  VAL Q  56     119.922  91.275 -41.551  1.00 30.44      QS17
ATOM  49092  CG1 VAL Q  56     120.015  91.686 -40.087  1.00 30.44      QS17
ATOM  49093  CG2 VAL Q  56     121.065  91.869 -42.357  1.00 30.44      QS17
ATOM  49094  C   VAL Q  56     118.767  89.202 -40.932  1.00 46.70      QS17
ATOM  49095  O   VAL Q  56     117.636  89.434 -41.340  1.00 46.70      QS17
ATOM  49096  N   VAL Q  57     119.001  88.493 -39.839  1.00 32.26      QS17
ATOM  49097  CA  VAL Q  57     117.880  87.904 -39.126  1.00 32.26      QS17
ATOM  49098  CB  VAL Q  57     117.757  86.419 -39.494  1.00 18.53      QS17
ATOM  49099  CG1 VAL Q  57     117.643  86.265 -40.995  1.00 18.53      QS17
ATOM  49100  CG2 VAL Q  57     118.974  85.666 -38.992  1.00 18.53      QS17
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ATOM  49101  C   VAL Q  57     117.903  88.001 -37.608  1.00 32.26      QS17
ATOM  49102  O   VAL Q  57     118.953  88.201 -36.995  1.00 32.26      QS17
ATOM  49103  N   GLU Q  58     116.721  87.883 -37.014  1.00 40.37      QS17
ATOM  49104  CA  GLU Q  58     116.609  87.876 -35.574  1.00 40.37      QS17
ATOM  49105  CB  GLU Q  58     115.267  88.448 -35.107  1.00108.50      QS17
ATOM  49106  CG  GLU Q  58     115.078  89.931 -35.395  1.00108.50      QS17
ATOM  49107  CD  GLU Q  58     114.112  90.613 -34.423  1.00108.50      QS17
ATOM  49108  OE1 GLU Q  58     113.026  90.053 -34.151  1.00108.50      QS17
ATOM  49109  OE2 GLU Q  58     114.435  91.720 -33.935  1.00108.50      QS17
ATOM  49110  C   GLU Q  58     116.693  86.382 -35.251  1.00 40.37      QS17
ATOM  49111  O   GLU Q  58     116.087  85.552 -35.929  1.00 40.37      QS17
ATOM  49112  N   ILE Q  59     117.474  86.036 -34.240  1.00 48.07      QS17
ATOM  49113  CA  ILE Q  59     117.640  84.651 -33.838  1.00 48.07      QS17
ATOM  49114  CB  ILE Q  59     119.133  84.275 -33.859  1.00 37.90      QS17
ATOM  49115  CG2 ILE Q  59     119.433  83.166 -32.916  1.00 37.90      QS17
ATOM  49116  CG1 ILE Q  59     119.507  83.860 -35.267  1.00 37.90      QS17
ATOM  49117  CD1 ILE Q  59     118.475  82.952 -35.890  1.00 37.90      QS17
ATOM  49118  C   ILE Q  59     117.063  84.509 -32.450  1.00 48.07      QS17
ATOM  49119  O   ILE Q  59     117.192  85.417 -31.623  1.00 48.07      QS17
ATOM  49120  N   ILE Q  60     116.417  83.383 -32.181  1.00 38.84      QS17
ATOM  49121  CA  ILE Q  60     115.821  83.214 -30.865  1.00 38.84      QS17
ATOM  49122  CB  ILE Q  60     114.285  83.290 -30.962  1.00 37.11      QS17
ATOM  49123  CG2 ILE Q  60     113.780  82.177 -31.839  1.00 37.11      QS17
ATOM  49124  CG1 ILE Q  60     113.663  83.219 -29.568  1.00 37.11      QS17
ATOM  49125  CD1 ILE Q  60     112.160  83.140 -29.581  1.00 37.11      QS17
ATOM  49126  C   ILE Q  60     116.218  81.939 -30.122  1.00 38.84      QS17
ATOM  49127  O   ILE Q  60     116.352  80.860 -30.715  1.00 38.84      QS17
ATOM  49128  N   GLU Q  61     116.418  82.092 -28.814  1.00 32.49      QS17
ATOM  49129  CA  GLU Q  61     116.791  80.994 -27.931  1.00 32.49      QS17
ATOM  49130  CB  GLU Q  61     116.897  81.503 -26.507  1.00 56.82      QS17
ATOM  49131  CG  GLU Q  61     116.828  80.442 -25.467  1.00 56.82      QS17
ATOM  49132  CD  GLU Q  61     117.162  80.984 -24.094  1.00 56.82      QS17
ATOM  49133  OE1 GLU Q  61     116.863  82.169 -23.809  1.00 56.82      QS17
ATOM  49134  OE2 GLU Q  61     117.719  80.214 -23.290  1.00 56.82      QS17
ATOM  49135  C   GLU Q  61     115.748  79.909 -28.019  1.00 32.49      QS17
ATOM  49136  O   GLU Q  61     114.560  80.160 -27.834  1.00 32.49      QS17
ATOM  49137  N   SER Q  62     116.183  78.690 -28.291  1.00 32.51      QS17
ATOM  49138  CA  SER Q  62     115.227  77.606 -28.435  1.00 32.51      QS17
ATOM  49139  CB  SER Q  62     114.996  77.335 -29.927  1.00 75.93      QS17
ATOM  49140  OG  SER Q  62     114.818  78.537 -30.656  1.00 75.93      QS17
ATOM  49141  C   SER Q  62     115.653  76.311 -27.761  1.00 32.51      QS17
ATOM  49142  O   SER Q  62     116.708  76.228 -27.116  1.00 32.51      QS17
ATOM  49143  N   ARG Q  63     114.810  75.297 -27.922  1.00 37.75      QS17
ATOM  49144  CA  ARG Q  63     115.094  73.986 -27.378  1.00 37.75      QS17
ATOM  49145  CB  ARG Q  63     113.856  73.119 -27.324  1.00 45.10      QS17
ATOM  49146  CG  ARG Q  63     114.201  71.651 -27.139  1.00 45.10      QS17
ATOM  49147  CD  ARG Q  63     113.505  70.860 -28.195  1.00 45.10      QS17
ATOM  49148  NE  ARG Q  63     112.120  71.291 -28.242  1.00 45.10      QS17
ATOM  49149  CZ  ARG Q  63     111.251  70.878 -29.140  1.00 45.10      QS17
ATOM  49150  NH1 ARG Q  63     111.629  70.015 -30.073  1.00 45.10      QS17
ATOM  49151  NH2 ARG Q  63     110.014  71.336 -29.096  1.00 45.10      QS17
ATOM  49152  C   ARG Q  63     116.088  73.316 -28.295  1.00 37.75      QS17
ATOM  49153  O   ARG Q  63     115.949  73.367 -29.520  1.00 37.75      QS17
ATOM  49154  N   PRO Q  64     117.087  72.648 -27.708  1.00 26.75      QS17
ATOM  49155  CD  PRO Q  64     117.285  72.411 -26.264  1.00 22.91      QS17
ATOM  49156  CA  PRO Q  64     118.110  71.970 -28.500  1.00 26.75      QS17
ATOM  49157  CB  PRO Q  64     118.725  71.007 -27.493  1.00 22.91      QS17
ATOM  49158  CG  PRO Q  64     118.672  71.826 -26.215  1.00 22.91      QS17
ATOM  49159  C   PRO Q  64     117.589  71.298 -29.762  1.00 26.75      QS17
ATOM  49160  O   PRO Q  64     116.589  70.590 -29.739  1.00 26.75      QS17
ATOM  49161  N   ILE Q  65     118.276  71.572 -30.865  1.00 25.34      QS17
ATOM  49162  CA  ILE Q  65     117.948  71.024 -32.172  1.00 25.34      QS17
ATOM  49163  CB  ILE Q  65     117.944  72.111 -33.248  1.00 34.58      QS17
ATOM  49164  CG2 ILE Q  65     117.630  71.492 -34.593  1.00 34.58      QS17
ATOM  49165  CG1 ILE Q  65     116.933  73.199 -32.897  1.00 34.58      QS17
ATOM  49166  CD1 ILE Q  65     115.496  72.772 -33.056  1.00 34.58      QS17
ATOM  49167  C   ILE Q  65     119.037  70.022 -32.534  1.00 25.34      QS17
ATOM  49168  O   ILE Q  65     118.791  69.063 -33.276  1.00 25.34      QS17
ATOM  49169  N   SER Q  66     120.242  70.284 -32.022  1.00 43.16      QS17
ATOM  49170  CA  SER Q  66     121.429  69.440 -32.209  1.00 43.16      QS17
ATOM  49171  CB  SER Q  66     121.963  69.494 -33.645  1.00 31.83      QS17
ATOM  49172  OG  SER Q  66     122.334  70.800 -34.019  1.00 31.83      QS17
ATOM  49173  C   SER Q  66     122.496  69.961 -31.282  1.00 43.16      QS17
ATOM  49174  O   SER Q  66     122.344  71.039 -30.720  1.00 43.16      QS17
ATOM  49175  N   LYS Q  67     123.559  69.192 -31.095  1.00 47.88      QS17
ATOM  49176  CA  LYS Q  67     124.657  69.639 -30.250  1.00 47.88      QS17
ATOM  49177  CB  LYS Q  67     125.759  68.600 -30.240  1.00 20.77      QS17
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ATOM  49178  CG  LYS Q  67     127.145  69.169 -30.046  1.00 20.77      QS17
ATOM  49179  CD  LYS Q  67     128.158  68.135 -30.460  1.00 20.77      QS17
ATOM  49180  CE  LYS Q  67     129.583  68.607 -30.276  1.00 20.77      QS17
ATOM  49181  NZ  LYS Q  67     130.578  67.492 -30.461  1.00 20.77      QS17
ATOM  49182  C   LYS Q  67     125.166  70.846 -30.987  1.00 47.88      QS17
ATOM  49183  O   LYS Q  67     125.202  70.814 -32.207  1.00 47.88      QS17
ATOM  49184  N   ARG Q  68     125.567  71.907 -30.300  1.00 54.03      QS17
ATOM  49185  CA  ARG Q  68     126.067  73.060 -31.047  1.00 54.03      QS17
ATOM  49186  CB  ARG Q  68     127.251  72.625 -31.931  1.00 53.33      QS17
ATOM  49187  CG  ARG Q  68     127.899  73.725 -32.738  1.00 53.33      QS17
ATOM  49188  CD  ARG Q  68     128.864  74.515 -31.880  1.00 53.33      QS17
ATOM  49189  NE  ARG Q  68     129.021  75.893 -32.338  1.00 53.33      QS17
ATOM  49190  CZ  ARG Q  68     129.374  76.243 -33.571  1.00 53.33      QS17
ATOM  49191  NH1 ARG Q  68     129.605  75.309 -34.485  1.00 53.33      QS17
ATOM  49192  NH2 ARG Q  68     129.519  77.528 -33.885  1.00 53.33      QS17
ATOM  49193  C   ARG Q  68     124.938  73.548 -31.949  1.00 54.03      QS17
ATOM  49194  O   ARG Q  68     125.062  73.464 -33.166  1.00 54.03      QS17
ATOM  49195  N   LYS Q  69     123.846  74.035 -31.362  1.00 24.94      QS17
ATOM  49196  CA  LYS Q  69     122.673  74.516 -32.118  1.00 24.94      QS17
ATOM  49197  CB  LYS Q  69     122.304  73.561 -33.265  1.00 20.88      QS17
ATOM  49198  CG  LYS Q  69     121.193  74.048 -34.189  1.00 20.88      QS17
ATOM  49199  CD  LYS Q  69     121.054  73.151 -35.447  1.00 20.88      QS17
ATOM  49200  CE  LYS Q  69     119.941  73.663 -36.402  1.00 20.88      QS17
ATOM  49201  NZ  LYS Q  69     119.588  72.779 -37.567  1.00 20.88      QS17
ATOM  49202  C   LYS Q  69     121.488  74.618 -31.169  1.00 24.94      QS17
ATOM  49203  O   LYS Q  69     120.778  73.634 -30.921  1.00 24.94      QS17
ATOM  49204  N   ARG Q  70     121.297  75.825 -30.641  1.00 32.14      QS17
ATOM  49205  CA  ARG Q  70     120.235  76.110 -29.699  1.00 32.14      QS17
ATOM  49206  CB  ARG Q  70     120.834  76.382 -28.327  1.00 45.58      QS17
ATOM  49207  CG  ARG Q  70     121.083  75.169 -27.471  1.00 45.58      QS17
ATOM  49208  CD  ARG Q  70     122.044  74.179 -28.061  1.00 45.58      QS17
ATOM  49209  NE  ARG Q  70     122.132  73.026 -27.171  1.00 45.58      QS17
ATOM  49210  CZ  ARG Q  70     122.714  71.868 -27.469  1.00 45.58      QS17
ATOM  49211  NH1 ARG Q  70     123.282  71.678 -28.651  1.00 45.58      QS17
ATOM  49212  NH2 ARG Q  70     122.719  70.887 -26.579  1.00 45.58      QS17
ATOM  49213  C   ARG Q  70     119.417  77.317 -30.123  1.00 32.14      QS17
ATOM  49214  O   ARG Q  70     118.867  78.009 -29.276  1.00 32.14      QS17
ATOM  49215  N   PHE Q  71     119.327  77.570 -31.426  1.00 25.07      QS17
ATOM  49216  CA  PHE Q  71     118.574  78.727 -31.925  1.00 25.07      QS17
ATOM  49217  CB  PHE Q  71     119.515  79.919 -32.121  1.00 25.09      QS17
ATOM  49218  CG  PHE Q  71     119.962  80.584 -30.840  1.00 25.09      QS17
ATOM  49219  CD1 PHE Q  71     119.218  81.613 -30.275  1.00 25.09      QS17
ATOM  49220  CD2 PHE Q  71     121.155  80.218 -30.226  1.00 25.09      QS17
ATOM  49221  CE1 PHE Q  71     119.653  82.278 -29.124  1.00 25.09      QS17
ATOM  49222  CE2 PHE Q  71     121.597  80.880 -29.067  1.00 25.09      QS17
ATOM  49223  CZ  PHE Q  71     120.840  81.912 -28.523  1.00 25.09      QS17
ATOM  49224  C   PHE Q  71     117.817  78.492 -33.235  1.00 25.07      QS17
ATOM  49225  O   PHE Q  71     118.162  77.640 -34.046  1.00 25.07      QS17
ATOM  49226  N   ARG Q  72     116.775  79.277 -33.435  1.00 24.96      QS17
ATOM  49227  CA  ARG Q  72     115.980  79.172 -34.634  1.00 24.96      QS17
ATOM  49228  CB  ARG Q  72     114.597  78.651 -34.289  1.00 35.18      QS17
ATOM  49229  CG  ARG Q  72     114.613  77.262 -33.693  1.00 35.18      QS17
ATOM  49230  CD  ARG Q  72     113.211  76.766 -33.422  1.00 35.18      QS17
ATOM  49231  NE  ARG Q  72     112.611  77.494 -32.318  1.00 35.18      QS17
ATOM  49232  CZ  ARG Q  72     111.309  77.519 -32.062  1.00 35.18      QS17
ATOM  49233  NH1 ARG Q  72     110.466  76.855 -32.842  1.00 35.18      QS17
ATOM  49234  NH2 ARG Q  72     110.855  78.203 -31.019  1.00 35.18      QS17
ATOM  49235  C   ARG Q  72     115.880  80.561 -35.219  1.00 24.96      QS17
ATOM  49236  O   ARG Q  72     115.961  81.553 -34.484  1.00 24.96      QS17
ATOM  49237  N   VAL Q  73     115.723  80.639 -36.536  1.00 45.76      QS17
ATOM  49238  CA  VAL Q  73     115.620  81.933 -37.193  1.00 45.76      QS17
ATOM  49239  CB  VAL Q  73     115.939  81.850 -38.685  1.00 17.55      QS17
ATOM  49240  CG1 VAL Q  73     116.372  83.218 -39.190  1.00 17.55      QS17
ATOM  49241  CG2 VAL Q  73     117.011  80.798 -38.926  1.00 17.55      QS17
ATOM  49242  C   VAL Q  73     114.210  82.445 -37.034  1.00 45.76      QS17
ATOM  49243  O   VAL Q  73     113.291  82.005 -37.716  1.00 45.76      QS17
ATOM  49244  N   LEU Q  74     114.057  83.382 -36.113  1.00 36.26      QS17
ATOM  49245  CA  LEU Q  74     112.772  83.981 -35.809  1.00 36.26      QS17
ATOM  49246  CB  LEU Q  74     112.957  85.033 -34.731  1.00 23.57      QS17
ATOM  49247  CG  LEU Q  74     111.851  85.069 -33.702  1.00 23.57      QS17
ATOM  49248  CD1 LEU Q  74     112.042  86.267 -32.797  1.00 23.57      QS17
ATOM  49249  CD2 LEU Q  74     110.527  85.139 -34.429  1.00 23.57      QS17
ATOM  49250  C   LEU Q  74     112.188  84.617 -37.053  1.00 36.26      QS17
ATOM  49251  O   LEU Q  74     111.358  84.020 -37.727  1.00 36.26      QS17
ATOM  49252  N   ARG Q  75     112.616  85.838 -37.349  1.00 47.72      QS17
ATOM  49253  CA  ARG Q  75     112.139  86.532 -38.532  1.00 47.72      QS17
ATOM  49254  CB  ARG Q  75     111.208  87.682 -38.150  1.00 71.14      QS17
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ATOM  49255  CG  ARG Q  75     111.864  88.863 -37.481  1.00 71.14      QS17
ATOM  49256  CD  ARG Q  75     110.785  89.777 -36.910  1.00 71.14      QS17
ATOM  49257  NE  ARG Q  75     111.282  91.099 -36.524  1.00 71.14      QS17
ATOM  49258  CZ  ARG Q  75     111.782  91.994 -37.375  1.00 71.14      QS17
ATOM  49259  NH1 ARG Q  75     111.858  91.714 -38.671  1.00 71.14      QS17
ATOM  49260  NH2 ARG Q  75     112.197  93.178 -36.935  1.00 71.14      QS17
ATOM  49261  C   ARG Q  75     113.316  87.051 -39.333  1.00 47.72      QS17
ATOM  49262  O   ARG Q  75     114.469  86.767 -39.022  1.00 47.72      QS17
ATOM  49263  N   LEU Q  76     113.023  87.813 -40.372  1.00 55.94      QS17
ATOM  49264  CA  LEU Q  76     114.069  88.350 -41.219  1.00 55.94      QS17
ATOM  49265  CB  LEU Q  76     113.759  87.995 -42.665  1.00 41.72      QS17
ATOM  49266  CG  LEU Q  76     114.703  88.454 -43.767  1.00 41.72      QS17
ATOM  49267  CD1 LEU Q  76     114.203  87.866 -45.078  1.00 41.72      QS17
ATOM  49268  CD2 LEU Q  76     114.767  89.971 -43.838  1.00 41.72      QS17
ATOM  49269  C   LEU Q  76     114.120  89.855 -41.048  1.00 55.94      QS17
ATOM  49270  O   LEU Q  76     113.135  90.529 -41.328  1.00 55.94      QS17
ATOM  49271  N   VAL Q  77     115.265  90.379 -40.606  1.00 56.27      QS17
ATOM  49272  CA  VAL Q  77     115.433  91.819 -40.391  1.00 56.27      QS17
ATOM  49273  CB  VAL Q  77     116.717  92.109 -39.628  1.00 78.38      QS17
ATOM  49274  CG1 VAL Q  77     116.793  93.583 -39.282  1.00 78.38      QS17
ATOM  49275  CG2 VAL Q  77     116.754  91.267 -38.373  1.00 78.38      QS17
ATOM  49276  C   VAL Q  77     115.458  92.586 -41.706  1.00 56.27      QS17
ATOM  49277  O   VAL Q  77     114.558  93.378 -41.984  1.00 56.27      QS17
ATOM  49278  N   GLU Q  78     116.504  92.376 -42.495  1.00 49.48      QS17
ATOM  49279  CA  GLU Q  78     116.612  93.002 -43.806  1.00 49.48      QS17
ATOM  49280  CB  GLU Q  78     117.387  94.322 -43.765  1.00 93.71      QS17
ATOM  49281  CG  GLU Q  78     118.887  94.197 -43.606  1.00 93.71      QS17
ATOM  49282  CD  GLU Q  78     119.611  95.512 -43.860  1.00 93.71      QS17
ATOM  49283  OE1 GLU Q  78     119.592  95.989 -45.016  1.00 93.71      QS17
ATOM  49284  OE2 GLU Q  78     120.195  96.068 -42.905  1.00 93.71      QS17
ATOM  49285  C   GLU Q  78     117.346  91.979 -44.646  1.00 49.48      QS17
ATOM  49286  O   GLU Q  78     118.308  91.367 -44.183  1.00 49.48      QS17
ATOM  49287  N   SER Q  79     116.874  91.771 -45.869  1.00 41.52      QS17
ATOM  49288  CA  SER Q  79     117.470  90.787 -46.765  1.00 41.52      QS17
ATOM  49289  CB  SER Q  79     116.422  90.261 -47.753  1.00133.26      QS17
ATOM  49290  OG  SER Q  79     116.962  89.255 -48.595  1.00133.26      QS17
ATOM  49291  C   SER Q  79     118.647  91.343 -47.533  1.00 41.52      QS17
ATOM  49292  O   SER Q  79     118.849  92.557 -47.602  1.00 41.52      QS17
ATOM  49293  N   GLY Q  80     119.424  90.422 -48.092  1.00 75.29      QS17
ATOM  49294  CA  GLY Q  80     120.586  90.763 -48.885  1.00 75.29      QS17
ATOM  49295  C   GLY Q  80     121.523  91.855 -48.406  1.00 75.29      QS17
ATOM  49296  O   GLY Q  80     121.129  93.002 -48.189  1.00 75.29      QS17
ATOM  49297  N   ARG Q  81     122.782  91.473 -48.237  1.00 51.57      QS17
ATOM  49298  CA  ARG Q  81     123.836  92.396 -47.848  1.00 51.57      QS17
ATOM  49299  CB  ARG Q  81     123.400  93.269 -46.688  1.00 37.31      QS17
ATOM  49300  CG  ARG Q  81     123.183  92.581 -45.411  1.00 37.31      QS17
ATOM  49301  CD  ARG Q  81     122.982  93.683 -44.435  1.00 37.31      QS17
ATOM  49302  NE  ARG Q  81     124.000  94.702 -44.652  1.00 37.31      QS17
ATOM  49303  CZ  ARG Q  81     123.926  95.931 -44.168  1.00 37.31      QS17
ATOM  49304  NH1 ARG Q  81     122.877  96.289 -43.445  1.00 37.31      QS17
ATOM  49305  NH2 ARG Q  81     124.897  96.797 -44.404  1.00 37.31      QS17
ATOM  49306  C   ARG Q  81     125.168  91.709 -47.559  1.00 51.57      QS17
ATOM  49307  O   ARG Q  81     125.604  91.550 -46.412  1.00 51.57      QS17
ATOM  49308  N   MET Q  82     125.796  91.325 -48.667  1.00 38.11      QS17
ATOM  49309  CA  MET Q  82     127.075  90.657 -48.698  1.00 38.11      QS17
ATOM  49310  CB  MET Q  82     127.396  90.249 -50.131  1.00123.65      QS17
ATOM  49311  CG  MET Q  82     126.217  89.616 -50.843  1.00123.65      QS17
ATOM  49312  SD  MET Q  82     125.543  88.230 -49.916  1.00123.65      QS17
ATOM  49313  CE  MET Q  82     126.520  86.886 -50.605  1.00123.65      QS17
ATOM  49314  C   MET Q  82     128.144  91.587 -48.170  1.00 38.11      QS17
ATOM  49315  O   MET Q  82     129.233  91.151 -47.809  1.00 38.11      QS17
ATOM  49316  N   ASP Q  83     127.849  92.876 -48.137  1.00 54.53      QS17
ATOM  49317  CA  ASP Q  83     128.823  93.804 -47.604  1.00 54.53      QS17
ATOM  49318  CB  ASP Q  83     128.155  95.149 -47.295  1.00129.56      QS17
ATOM  49319  CG  ASP Q  83     127.052  95.032 -46.261  1.00129.56      QS17
ATOM  49320  OD1 ASP Q  83     126.135  94.206 -46.450  1.00129.56      QS17
ATOM  49321  OD2 ASP Q  83     127.104  95.771 -45.257  1.00129.56      QS17
ATOM  49322  C   ASP Q  83     129.361  93.153 -46.321  1.00 54.53      QS17
ATOM  49323  O   ASP Q  83     130.556  92.861 -46.202  1.00 54.53      QS17
ATOM  49324  N   LEU Q  84     128.450  92.880 -45.390  1.00 71.61      QS17
ATOM  49325  CA  LEU Q  84     128.793  92.265 -44.114  1.00 71.61      QS17
ATOM  49326  CB  LEU Q  84     127.529  92.073 -43.285  1.00 42.82      QS17
ATOM  49327  CG  LEU Q  84     126.861  93.419 -43.021  1.00 42.82      QS17
ATOM  49328  CD1 LEU Q  84     125.604  93.241 -42.199  1.00 42.82      QS17
ATOM  49329  CD2 LEU Q  84     127.852  94.317 -42.301  1.00 42.82      QS17
ATOM  49330  C   LEU Q  84     129.489  90.939 -44.306  1.00 71.61      QS17
ATOM  49331  O   LEU Q  84     130.544  90.685 -43.732  1.00 71.61      QS17
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ATOM  49332  N   VAL Q  85     128.886  90.085 -45.112  1.00 26.35      QS17
ATOM  49333  CA  VAL Q  85     129.482  88.798 -45.375  1.00 26.35      QS17
ATOM  49334  CB  VAL Q  85     128.735  88.078 -46.492  1.00 33.64      QS17
ATOM  49335  CG1 VAL Q  85     129.509  86.860 -46.939  1.00 33.64      QS17
ATOM  49336  CG2 VAL Q  85     127.362  87.684 -46.002  1.00 33.64      QS17
ATOM  49337  C   VAL Q  85     130.944  88.974 -45.780  1.00 26.35      QS17
ATOM  49338  O   VAL Q  85     131.841  88.387 -45.172  1.00 26.35      QS17
ATOM  49339  N   GLU Q  86     131.180  89.786 -46.802  1.00 50.50      QS17
ATOM  49340  CA  GLU Q  86     132.533  90.018 -47.268  1.00 50.50      QS17
ATOM  49341  CB  GLU Q  86     132.601  91.282 -48.122  1.00165.38      QS17
ATOM  49342  CG  GLU Q  86     132.207  91.047 -49.558  1.00165.38      QS17
ATOM  49343  CD  GLU Q  86     132.811  89.769 -50.100  1.00165.38      QS17
ATOM  49344  OE1 GLU Q  86     134.019  89.539 -49.873  1.00165.38      QS17
ATOM  49345  OE2 GLU Q  86     132.078  88.996 -50.752  1.00165.38      QS17
ATOM  49346  C   GLU Q  86     133.494  90.141 -46.103  1.00 50.50      QS17
ATOM  49347  O   GLU Q  86     134.458  89.366 -46.001  1.00 50.50      QS17
ATOM  49348  N   LYS Q  87     133.230  91.112 -45.224  1.00 32.99      QS17
ATOM  49349  CA  LYS Q  87     134.090  91.326 -44.068  1.00 32.99      QS17
ATOM  49350  CB  LYS Q  87     133.408  92.217 -43.030  1.00182.87      QS17
ATOM  49351  CG  LYS Q  87     133.460  93.695 -43.348  1.00182.87      QS17
ATOM  49352  CD  LYS Q  87     132.888  94.504 -42.202  1.00182.87      QS17
ATOM  49353  CE  LYS Q  87     133.008  95.990 -42.469  1.00182.87      QS17
ATOM  49354  NZ  LYS Q  87     132.447  96.794 -41.348  1.00182.87      QS17
ATOM  49355  C   LYS Q  87     134.399  89.980 -43.456  1.00 32.99      QS17
ATOM  49356  O   LYS Q  87     135.548  89.552 -43.434  1.00 32.99      QS17
ATOM  49357  N   TYR Q  88     133.352  89.310 -42.988  1.00 28.26      QS17
ATOM  49358  CA  TYR Q  88     133.494  88.009 -42.377  1.00 28.26      QS17
ATOM  49359  CB  TYR Q  88     132.154  87.314 -42.249  1.00 42.81      QS17
ATOM  49360  CG  TYR Q  88     132.307  85.875 -41.834  1.00 42.81      QS17
ATOM  49361  CD1 TYR Q  88     132.939  85.539 -40.636  1.00 42.81      QS17
ATOM  49362  CE1 TYR Q  88     133.105  84.208 -40.258  1.00 42.81      QS17
ATOM  49363  CD2 TYR Q  88     131.844  84.846 -42.646  1.00 42.81      QS17
ATOM  49364  CE2 TYR Q  88     132.001  83.513 -42.281  1.00 42.81      QS17
ATOM  49365  CZ  TYR Q  88     132.631  83.200 -41.086  1.00 42.81      QS17
ATOM  49366  OH  TYR Q  88     132.772  81.880 -40.718  1.00 42.81      QS17
ATOM  49367  C   TYR Q  88     134.386  87.146 -43.218  1.00 28.26      QS17
ATOM  49368  O   TYR Q  88     135.401  86.646 -42.751  1.00 28.26      QS17
ATOM  49369  N   LEU Q  89     134.006  86.962 -44.470  1.00 29.12      QS17
ATOM  49370  CA  LEU Q  89     134.797  86.130 -45.361  1.00 29.12      QS17
ATOM  49371  CB  LEU Q  89     134.230  86.187 -46.775  1.00 56.00      QS17
ATOM  49372  CG  LEU Q  89     132.885  85.501 -46.950  1.00 56.00      QS17
ATOM  49373  CD1 LEU Q  89     132.555  85.498 -48.425  1.00 56.00      QS17
ATOM  49374  CD2 LEU Q  89     132.939  84.079 -46.416  1.00 56.00      QS17
ATOM  49375  C   LEU Q  89     136.275  86.497 -45.403  1.00 29.12      QS17
ATOM  49376  O   LEU Q  89     137.147  85.639 -45.214  1.00 29.12      QS17
ATOM  49377  N   ILE Q  90     136.549  87.773 -45.659  1.00 51.63      QS17
ATOM  49378  CA  ILE Q  90     137.919  88.240 -45.751  1.00 51.63      QS17
ATOM  49379  CB  ILE Q  90     137.968  89.700 -46.119  1.00 56.81      QS17
ATOM  49380  CG2 ILE Q  90     139.406  90.095 -46.423  1.00 56.81      QS17
ATOM  49381  CG1 ILE Q  90     137.060  89.937 -47.327  1.00 56.81      QS17
ATOM  49382  CD1 ILE Q  90     136.908  91.399 -47.715  1.00 56.81      QS17
ATOM  49383  C   ILE Q  90     138.700  88.027 -44.470  1.00 51.63      QS17
ATOM  49384  O   ILE Q  90     139.890  87.715 -44.520  1.00 51.63      QS17
ATOM  49385  N   ARG Q  91     138.043  88.209 -43.327  1.00 41.55      QS17
ATOM  49386  CA  ARG Q  91     138.703  87.985 -42.045  1.00 41.55      QS17
ATOM  49387  CB  ARG Q  91     137.723  88.160 -40.880  1.00105.82      QS17
ATOM  49388  CG  ARG Q  91     137.782  89.527 -40.208  1.00105.82      QS17
ATOM  49389  CD  ARG Q  91     136.623  89.731 -39.233  1.00105.82      QS17
ATOM  49390  NE  ARG Q  91     135.336  89.881 -39.917  1.00105.82      QS17
ATOM  49391  CZ  ARG Q  91     134.163  89.981 -39.296  1.00105.82      QS17
ATOM  49392  NH1 ARG Q  91     134.106  89.945 -37.972  1.00105.82      QS17
ATOM  49393  NH2 ARG Q  91     133.044  90.117 -39.994  1.00105.82      QS17
ATOM  49394  C   ARG Q  91     139.187  86.548 -42.114  1.00 41.55      QS17
ATOM  49395  O   ARG Q  91     140.334  86.251 -41.764  1.00 41.55      QS17
ATOM  49396  N   ARG Q  92     138.306  85.670 -42.598  1.00 47.12      QS17
ATOM  49397  CA  ARG Q  92     138.614  84.252 -42.755  1.00 47.12      QS17
ATOM  49398  CB  ARG Q  92     137.415  83.515 -43.374  1.00154.32      QS17
ATOM  49399  CG  ARG Q  92     137.664  82.030 -43.638  1.00154.32      QS17
ATOM  49400  CD  ARG Q  92     136.580  81.368 -44.504  1.00154.32      QS17
ATOM  49401  NE  ARG Q  92     135.317  81.146 -43.801  1.00154.32      QS17
ATOM  49402  CZ  ARG Q  92     134.310  80.422 -44.287  1.00154.32      QS17
ATOM  49403  NH1 ARG Q  92     134.418  79.848 -45.478  1.00154.32      QS17
ATOM  49404  NH2 ARG Q  92     133.196  80.269 -43.584  1.00154.32      QS17
ATOM  49405  C   ARG Q  92     139.860  84.051 -43.642  1.00 47.12      QS17
ATOM  49406  O   ARG Q  92     140.744  83.254 -43.316  1.00 47.12      QS17
ATOM  49407  N   GLN Q  93     139.931  84.776 -44.756  1.00 55.52      QS17
ATOM  49408  CA  GLN Q  93     141.061  84.658 -45.668  1.00 55.52      QS17
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ATOM  49409  CB  GLN Q  93     140.801  85.450 -46.943  1.00170.51      QS17
ATOM  49410  CG  GLN Q  93     139.916  84.739 -47.931  1.00170.51      QS17
ATOM  49411  CD  GLN Q  93     139.882  85.444 -49.265  1.00170.51      QS17
ATOM  49412  OE1 GLN Q  93     139.387  86.566 -49.376  1.00170.51      QS17
ATOM  49413  NE2 GLN Q  93     140.420  84.794 -50.289  1.00170.51      QS17
ATOM  49414  C   GLN Q  93     142.428  85.060 -45.116  1.00 55.52      QS17
ATOM  49415  O   GLN Q  93     143.392  84.311 -45.271  1.00 55.52      QS17
ATOM  49416  N   ASN Q  94     142.536  86.232 -44.493  1.00 65.95      QS17
ATOM  49417  CA  ASN Q  94     143.832  86.657 -43.967  1.00 65.95      QS17
ATOM  49418  CB  ASN Q  94     143.703  87.875 -43.055  1.00 56.03      QS17
ATOM  49419  CG  ASN Q  94     143.083  89.063 -43.753  1.00 56.03      QS17
ATOM  49420  OD1 ASN Q  94     143.307  89.292 -44.943  1.00 56.03      QS17
ATOM  49421  ND2 ASN Q  94     142.308  89.839 -43.009  1.00 56.03      QS17
ATOM  49422  C   ASN Q  94     144.449  85.520 -43.180  1.00 65.95      QS17
ATOM  49423  O   ASN Q  94     145.665  85.335 -43.182  1.00 65.95      QS17
ATOM  49424  N   TYR Q  95     143.591  84.764 -42.507  1.00 33.40      QS17
ATOM  49425  CA  TYR Q  95     144.006  83.616 -41.706  1.00 33.40      QS17
ATOM  49426  CB  TYR Q  95     142.775  82.846 -41.198  1.00 93.01      QS17
ATOM  49427  CG  TYR Q  95     142.023  83.512 -40.073  1.00 93.01      QS17
ATOM  49428  CD1 TYR Q  95     142.125  84.885 -39.861  1.00 93.01      QS17
ATOM  49429  CE1 TYR Q  95     141.446  85.508 -38.826  1.00 93.01      QS17
ATOM  49430  CD2 TYR Q  95     141.210  82.770 -39.217  1.00 93.01      QS17
ATOM  49431  CE2 TYR Q  95     140.518  83.384 -38.173  1.00 93.01      QS17
ATOM  49432  CZ  TYR Q  95     140.645  84.758 -37.983  1.00 93.01      QS17
ATOM  49433  OH  TYR Q  95     139.996  85.398 -36.951  1.00 93.01      QS17
ATOM  49434  C   TYR Q  95     144.825  82.684 -42.575  1.00 33.40      QS17
ATOM  49435  O   TYR Q  95     145.993  82.408 -42.299  1.00 33.40      QS17
ATOM  49436  N   GLN Q  96     144.163  82.202 -43.627  1.00182.05      QS17
ATOM  49437  CA  GLN Q  96     144.716  81.276 -44.608  1.00182.05      QS17
ATOM  49438  CB  GLN Q  96     144.082  81.544 -45.977  1.00201.30      QS17
ATOM  49439  CG  GLN Q  96     144.407  80.514 -47.046  1.00201.30      QS17
ATOM  49440  CD  GLN Q  96     143.562  80.689 -48.299  1.00201.30      QS17
ATOM  49441  OE1 GLN Q  96     142.337  80.560 -48.261  1.00201.30      QS17
ATOM  49442  NE2 GLN Q  96     144.216  80.986 -49.416  1.00201.30      QS17
ATOM  49443  C   GLN Q  96     146.228  81.337 -44.715  1.00182.05      QS17
ATOM  49444  O   GLN Q  96     146.876  80.330 -45.000  1.00182.05      QS17
ATOM  49445  N   SER Q  97     146.794  82.514 -44.482  1.00 70.91      QS17
ATOM  49446  CA  SER Q  97     148.232  82.649 -44.562  1.00 70.91      QS17
ATOM  49447  CB  SER Q  97     148.633  82.965 -46.002  1.00201.30      QS17
ATOM  49448  OG  SER Q  97     148.242  81.920 -46.878  1.00201.30      QS17
ATOM  49449  C   SER Q  97     148.873  83.647 -43.602  1.00 70.91      QS17
ATOM  49450  O   SER Q  97     149.665  84.489 -44.008  1.00 70.91      QS17
ATOM  49451  N   LEU Q  98     148.510  83.562 -42.328  1.00 55.59      QS17
ATOM  49452  CA  LEU Q  98     149.119  84.401 -41.299  1.00 55.59      QS17
ATOM  49453  CB  LEU Q  98     148.153  85.464 -40.746  1.00 72.17      QS17
ATOM  49454  CG  LEU Q  98     146.792  85.201 -40.078  1.00 72.17      QS17
ATOM  49455  CD1 LEU Q  98     146.673  83.789 -39.566  1.00 72.17      QS17
ATOM  49456  CD2 LEU Q  98     146.605  86.205 -38.942  1.00 72.17      QS17
ATOM  49457  C   LEU Q  98     149.547  83.455 -40.180  1.00 55.59      QS17
ATOM  49458  O   LEU Q  98     149.452  83.783 -38.998  1.00 55.59      QS17
ATOM  49459  N   SER Q  99     150.023  82.275 -40.569  1.00 72.05      QS17
ATOM  49460  CA  SER Q  99     150.440  81.272 -39.603  1.00 72.05      QS17
ATOM  49461  CB  SER Q  99     149.549  80.030 -39.733  1.00165.55      QS17
ATOM  49462  OG  SER Q  99     149.597  79.495 -41.044  1.00165.55      QS17
ATOM  49463  C   SER Q  99     151.905  80.867 -39.720  1.00 72.05      QS17
ATOM  49464  O   SER Q  99     152.749  81.301 -38.933  1.00 72.05      QS17
ATOM  49465  N   LYS Q 100     152.202  80.013 -40.691  1.00201.30      QS17
ATOM  49466  CA  LYS Q 100     153.564  79.545 -40.899  1.00201.30      QS17
ATOM  49467  CB  LYS Q 100     153.559  78.029 -41.121  1.00 79.82      QS17
ATOM  49468  CG  LYS Q 100     154.928  77.403 -41.297  1.00 79.82      QS17
ATOM  49469  CD  LYS Q 100     154.821  75.885 -41.416  1.00 79.82      QS17
ATOM  49470  CE  LYS Q 100     154.306  75.228 -40.121  1.00 79.82      QS17
ATOM  49471  NZ  LYS Q 100     155.268  75.223 -38.967  1.00 79.82      QS17
ATOM  49472  C   LYS Q 100     154.190  80.255 -42.095  1.00201.30      QS17
ATOM  49473  O   LYS Q 100     155.409  80.425 -42.157  1.00201.30      QS17
ATOM  49474  N   ARG Q 101     153.346  80.682 -43.034  1.00201.20      QS17
ATOM  49475  CA  ARG Q 101     153.809  81.368 -44.237  1.00201.20      QS17
ATOM  49476  CB  ARG Q 101     153.311  80.622 -45.481  1.00201.30      QS17
ATOM  49477  CG  ARG Q 101     153.798  79.176 -45.584  1.00201.30      QS17
ATOM  49478  CD  ARG Q 101     155.322  79.089 -45.714  1.00201.30      QS17
ATOM  49479  NE  ARG Q 101     156.017  79.561 -44.516  1.00201.30      QS17
ATOM  49480  CZ  ARG Q 101     157.339  79.675 -44.406  1.00201.30      QS17
ATOM  49481  NH1 ARG Q 101     158.124  79.351 -45.425  1.00201.30      QS17
ATOM  49482  NH2 ARG Q 101     157.876  80.116 -43.276  1.00201.30      QS17
ATOM  49483  C   ARG Q 101     153.371  82.832 -44.297  1.00201.20      QS17
ATOM  49484  O   ARG Q 101     153.458  83.554 -43.304  1.00201.20      QS17
ATOM  49485  N   GLY Q 102     152.910  83.264 -45.469  1.00201.30      QS17
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ATOM  49486  CA  GLY Q 102     152.473  84.640 -45.636  1.00201.30      QS17
ATOM  49487  C   GLY Q 102     151.215  84.786 -46.477  1.00201.30      QS17
ATOM  49488  O   GLY Q 102     151.061  84.114 -47.499  1.00201.30      QS17
ATOM  49489  N   GLY Q 103     150.320  85.675 -46.049  1.00201.30      QS17
ATOM  49490  CA  GLY Q 103     149.071  85.896 -46.760  1.00201.30      QS17
ATOM  49491  C   GLY Q 103     149.203  86.763 -47.994  1.00201.30      QS17
ATOM  49492  O   GLY Q 103     150.001  86.467 -48.884  1.00201.30      QS17
ATOM  49493  N   LYS Q 104     148.414  87.833 -48.046  1.00200.67      QS17
ATOM  49494  CA  LYS Q 104     148.434  88.768 -49.167  1.00200.67      QS17
ATOM  49495  CB  LYS Q 104     147.420  88.342 -50.235  1.00201.30      QS17
ATOM  49496  CG  LYS Q 104     147.741  87.026 -50.944  1.00201.30      QS17
ATOM  49497  CD  LYS Q 104     148.822  87.174 -52.021  1.00201.30      QS17
ATOM  49498  CE  LYS Q 104     150.197  87.485 -51.441  1.00201.30      QS17
ATOM  49499  NZ  LYS Q 104     151.261  87.515 -52.480  1.00201.30      QS17
ATOM  49500  C   LYS Q 104     148.103  90.176 -48.680  1.00200.67      QS17
ATOM  49501  O   LYS Q 104     148.963  91.058 -48.675  1.00200.67      QS17
ATOM  49502  N   ALA Q 105     146.851  90.365 -48.268  1.00137.62      QS17
ATOM  49503  CA  ALA Q 105     146.357  91.647 -47.768  1.00137.62      QS17
ATOM  49504  CB  ALA Q 105     146.890  92.797 -48.616  1.00 74.72      QS17
ATOM  49505  C   ALA Q 105     144.830  91.666 -47.764  1.00137.62      QS17
ATOM  49506  O   ALA Q 105     144.243  92.221 -48.718  1.00137.62      QS17
ATOM  49507  OXT ALA Q 105     144.234  91.124 -46.810  1.00 74.72      QS17
TER   49507       ALA Q 105                                             QS17
ATOM  49508  CB  PRO R  16     187.703 138.840 -52.211  1.00194.33      RS18
ATOM  49509  CG  PRO R  16     189.173 138.433 -52.214  1.00194.33      RS18
ATOM  49510  C   PRO R  16     186.747 137.503 -54.111  1.00201.04      RS18
ATOM  49511  O   PRO R  16     185.725 136.967 -54.544  1.00201.04      RS18
ATOM  49512  N   PRO R  16     187.938 136.440 -52.198  1.00201.04      RS18
ATOM  49513  CD  PRO R  16     189.184 137.004 -51.649  1.00194.33      RS18
ATOM  49514  CA  PRO R  16     187.030 137.535 -52.611  1.00201.04      RS18
ATOM  49515  N   SER R  17     187.654 138.081 -54.895  1.00201.30      RS18
ATOM  49516  CA  SER R  17     187.517 138.122 -56.350  1.00201.30      RS18
ATOM  49517  CB  SER R  17     187.262 136.715 -56.896  1.00126.19      RS18
ATOM  49518  OG  SER R  17     186.907 136.767 -58.264  1.00126.19      RS18
ATOM  49519  C   SER R  17     186.401 139.052 -56.820  1.00201.30      RS18
ATOM  49520  O   SER R  17     185.323 138.596 -57.203  1.00201.30      RS18
ATOM  49521  N   ARG R  18     186.668 140.354 -56.797  1.00201.30      RS18
ATOM  49522  CA  ARG R  18     185.685 141.346 -57.224  1.00201.30      RS18
ATOM  49523  CB  ARG R  18     185.447 142.365 -56.106  1.00187.09      RS18
ATOM  49524  CG  ARG R  18     185.080 141.765 -54.749  1.00187.09      RS18
ATOM  49525  CD  ARG R  18     183.611 141.345 -54.646  1.00187.09      RS18
ATOM  49526  NE  ARG R  18     183.284 140.157 -55.430  1.00187.09      RS18
ATOM  49527  CZ  ARG R  18     182.118 139.519 -55.367  1.00187.09      RS18
ATOM  49528  NH1 ARG R  18     181.164 139.955 -54.554  1.00187.09      RS18
ATOM  49529  NH2 ARG R  18     181.903 138.446 -56.116  1.00187.09      RS18
ATOM  49530  C   ARG R  18     186.196 142.065 -58.472  1.00201.30      RS18
ATOM  49531  O   ARG R  18     185.821 143.207 -58.745  1.00201.30      RS18
ATOM  49532  N   LYS R  19     187.053 141.382 -59.224  1.00130.55      RS18
ATOM  49533  CA  LYS R  19     187.647 141.929 -60.440  1.00130.55      RS18
ATOM  49534  CB  LYS R  19     188.516 140.856 -61.098  1.00170.82      RS18
ATOM  49535  CG  LYS R  19     189.472 140.170 -60.128  1.00170.82      RS18
ATOM  49536  CD  LYS R  19     190.179 138.993 -60.783  1.00170.82      RS18
ATOM  49537  CE  LYS R  19     191.018 138.215 -59.780  1.00170.82      RS18
ATOM  49538  NZ  LYS R  19     191.657 137.018 -60.400  1.00170.82      RS18
ATOM  49539  C   LYS R  19     186.610 142.451 -61.438  1.00130.55      RS18
ATOM  49540  O   LYS R  19     186.653 143.616 -61.831  1.00130.55      RS18
ATOM  49541  N   ALA R  20     185.687 141.582 -61.842  1.00137.95      RS18
ATOM  49542  CA  ALA R  20     184.632 141.934 -62.795  1.00137.95      RS18
ATOM  49543  CB  ALA R  20     185.244 142.507 -64.064  1.00154.90      RS18
ATOM  49544  C   ALA R  20     183.812 140.687 -63.124  1.00137.95      RS18
ATOM  49545  O   ALA R  20     184.340 139.575 -63.108  1.00137.95      RS18
ATOM  49546  N   LYS R  21     182.531 140.869 -63.436  1.00 84.31      RS18
ATOM  49547  CA  LYS R  21     181.661 139.731 -63.742  1.00 84.31      RS18
ATOM  49548  CB  LYS R  21     180.288 139.932 -63.090  1.00133.14      RS18
ATOM  49549  CG  LYS R  21     180.245 139.531 -61.623  1.00133.14      RS18
ATOM  49550  CD  LYS R  21     181.375 140.186 -60.849  1.00133.14      RS18
ATOM  49551  CE  LYS R  21     181.538 139.574 -59.475  1.00133.14      RS18
ATOM  49552  NZ  LYS R  21     182.775 140.081 -58.819  1.00133.14      RS18
ATOM  49553  C   LYS R  21     181.487 139.422 -65.224  1.00 84.31      RS18
ATOM  49554  O   LYS R  21     181.521 140.320 -66.063  1.00 84.31      RS18
ATOM  49555  N   VAL R  22     181.293 138.143 -65.538  1.00 58.70      RS18
ATOM  49556  CA  VAL R  22     181.119 137.718 -66.923  1.00 58.70      RS18
ATOM  49557  CB  VAL R  22     181.320 136.192 -67.070  1.00 50.43      RS18
ATOM  49558  CG1 VAL R  22     181.022 135.751 -68.503  1.00 50.43      RS18
ATOM  49559  CG2 VAL R  22     182.748 135.837 -66.705  1.00 50.43      RS18
ATOM  49560  C   VAL R  22     179.757 138.097 -67.502  1.00 58.70      RS18
ATOM  49561  O   VAL R  22     179.605 138.239 -68.716  1.00 58.70      RS18
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ATOM  49562  N   LYS R  23     178.763 138.255 -66.639  1.00 87.70      RS18
ATOM  49563  CA  LYS R  23     177.443 138.629 -67.116  1.00 87.70      RS18
ATOM  49564  CB  LYS R  23     176.390 138.374 -66.036  1.00136.60      RS18
ATOM  49565  CG  LYS R  23     174.966 138.516 -66.534  1.00136.60      RS18
ATOM  49566  CD  LYS R  23     173.963 138.161 -65.460  1.00136.60      RS18
ATOM  49567  CE  LYS R  23     172.550 138.226 -66.006  1.00136.60      RS18
ATOM  49568  NZ  LYS R  23     171.547 137.838 -64.980  1.00136.60      RS18
ATOM  49569  C   LYS R  23     177.478 140.110 -67.480  1.00 87.70      RS18
ATOM  49570  O   LYS R  23     176.976 140.511 -68.531  1.00 87.70      RS18
ATOM  49571  N   ALA R  24     178.085 140.912 -66.607  1.00117.41      RS18
ATOM  49572  CA  ALA R  24     178.205 142.353 -66.818  1.00117.41      RS18
ATOM  49573  CB  ALA R  24     179.085 142.964 -65.742  1.00102.73      RS18
ATOM  49574  C   ALA R  24     178.796 142.633 -68.189  1.00117.41      RS18
ATOM  49575  O   ALA R  24     178.136 143.206 -69.052  1.00117.41      RS18
ATOM  49576  N   THR R  25     180.048 142.233 -68.380  1.00 77.02      RS18
ATOM  49577  CA  THR R  25     180.712 142.430 -69.659  1.00 77.02      RS18
ATOM  49578  CB  THR R  25     182.232 142.208 -69.547  1.00192.85      RS18
ATOM  49579  OG1 THR R  25     182.770 143.078 -68.545  1.00192.85      RS18
ATOM  49580  CG2 THR R  25     182.913 142.504 -70.877  1.00192.85      RS18
ATOM  49581  C   THR R  25     180.138 141.415 -70.632  1.00 77.02      RS18
ATOM  49582  O   THR R  25     180.804 140.445 -70.987  1.00 77.02      RS18
ATOM  49583  N   LEU R  26     178.896 141.643 -71.050  1.00 87.12      RS18
ATOM  49584  CA  LEU R  26     178.204 140.748 -71.974  1.00 87.12      RS18
ATOM  49585  CB  LEU R  26     178.087 139.354 -71.352  1.00 71.77      RS18
ATOM  49586  CG  LEU R  26     178.600 138.142 -72.135  1.00 71.77      RS18
ATOM  49587  CD1 LEU R  26     180.036 138.383 -72.591  1.00 71.77      RS18
ATOM  49588  CD2 LEU R  26     178.516 136.896 -71.255  1.00 71.77      RS18
ATOM  49589  C   LEU R  26     176.809 141.304 -72.266  1.00 87.12      RS18
ATOM  49590  O   LEU R  26     176.400 142.305 -71.679  1.00 87.12      RS18
ATOM  49591  N   GLY R  27     176.078 140.656 -73.167  1.00109.61      RS18
ATOM  49592  CA  GLY R  27     174.744 141.130 -73.494  1.00109.61      RS18
ATOM  49593  C   GLY R  27     173.647 140.099 -73.295  1.00109.61      RS18
ATOM  49594  O   GLY R  27     173.723 139.254 -72.400  1.00109.61      RS18
ATOM  49595  N   GLU R  28     172.606 140.183 -74.117  1.00101.88      RS18
ATOM  49596  CA  GLU R  28     171.511 139.236 -74.028  1.00101.88      RS18
ATOM  49597  CB  GLU R  28     170.211 139.847 -74.564  1.00130.58      RS18
ATOM  49598  CG  GLU R  28     170.184 140.127 -76.058  1.00130.58      RS18
ATOM  49599  CD  GLU R  28     168.774 140.357 -76.586  1.00130.58      RS18
ATOM  49600  OE1 GLU R  28     168.620 140.544 -77.811  1.00130.58      RS18
ATOM  49601  OE2 GLU R  28     167.818 140.347 -75.780  1.00130.58      RS18
ATOM  49602  C   GLU R  28     171.920 138.039 -74.871  1.00101.88      RS18
ATOM  49603  O   GLU R  28     172.125 138.166 -76.081  1.00101.88      RS18
ATOM  49604  N   PHE R  29     172.058 136.882 -74.229  1.00 69.56      RS18
ATOM  49605  CA  PHE R  29     172.461 135.667 -74.930  1.00 69.56      RS18
ATOM  49606  CB  PHE R  29     173.944 135.411 -74.696  1.00 78.45      RS18
ATOM  49607  CG  PHE R  29     174.338 135.516 -73.267  1.00 78.45      RS18
ATOM  49608  CD1 PHE R  29     174.180 134.441 -72.410  1.00 78.45      RS18
ATOM  49609  CD2 PHE R  29     174.823 136.715 -72.762  1.00 78.45      RS18
ATOM  49610  CE1 PHE R  29     174.500 134.560 -71.066  1.00 78.45      RS18
ATOM  49611  CE2 PHE R  29     175.146 136.849 -71.421  1.00 78.45      RS18
ATOM  49612  CZ  PHE R  29     174.985 135.771 -70.569  1.00 78.45      RS18
ATOM  49613  C   PHE R  29     171.662 134.470 -74.468  1.00 69.56      RS18
ATOM  49614  O   PHE R  29     171.154 134.454 -73.351  1.00 69.56      RS18
ATOM  49615  N   ASP R  30     171.557 133.465 -75.330  1.00 68.35      RS18
ATOM  49616  CA  ASP R  30     170.809 132.269 -74.981  1.00 68.35      RS18
ATOM  49617  CB  ASP R  30     170.209 131.622 -76.229  1.00 83.19      RS18
ATOM  49618  CG  ASP R  30     169.268 130.485 -75.890  1.00 83.19      RS18
ATOM  49619  OD1 ASP R  30     168.462 130.657 -74.959  1.00 83.19      RS18
ATOM  49620  OD2 ASP R  30     169.320 129.426 -76.547  1.00 83.19      RS18
ATOM  49621  C   ASP R  30     171.686 131.262 -74.257  1.00 68.35      RS18
ATOM  49622  O   ASP R  30     172.437 130.517 -74.892  1.00 68.35      RS18
ATOM  49623  N   LEU R  31     171.588 131.251 -72.926  1.00 46.58      RS18
ATOM  49624  CA  LEU R  31     172.364 130.335 -72.100  1.00 46.58      RS18
ATOM  49625  CB  LEU R  31     171.973 130.477 -70.638  1.00 53.63      RS18
ATOM  49626  CG  LEU R  31     172.732 131.563 -69.896  1.00 53.63      RS18
ATOM  49627  CD1 LEU R  31     172.409 131.509 -68.405  1.00 53.63      RS18
ATOM  49628  CD2 LEU R  31     174.214 131.338 -70.117  1.00 53.63      RS18
ATOM  49629  C   LEU R  31     172.184 128.887 -72.511  1.00 46.58      RS18
ATOM  49630  O   LEU R  31     172.853 128.004 -71.991  1.00 46.58      RS18
ATOM  49631  N   ARG R  32     171.282 128.642 -73.450  1.00 58.95      RS18
ATOM  49632  CA  ARG R  32     171.021 127.289 -73.906  1.00 58.95      RS18
ATOM  49633  CB  ARG R  32     169.507 127.065 -73.985  1.00 90.47      RS18
ATOM  49634  CG  ARG R  32     169.089 125.612 -73.927  1.00 90.47      RS18
ATOM  49635  CD  ARG R  32     167.592 125.456 -73.660  1.00 90.47      RS18
ATOM  49636  NE  ARG R  32     167.171 126.092 -72.413  1.00 90.47      RS18
ATOM  49637  CZ  ARG R  32     166.293 125.568 -71.562  1.00 90.47      RS18
ATOM  49638  NH1 ARG R  32     165.736 124.390 -71.815  1.00 90.47      RS18
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ATOM  49639  NH2 ARG R  32     165.967 126.224 -70.457  1.00 90.47      RS18
ATOM  49640  C   ARG R  32     171.670 127.034 -75.263  1.00 58.95      RS18
ATOM  49641  O   ARG R  32     171.434 125.999 -75.881  1.00 58.95      RS18
ATOM  49642  N   ASP R  33     172.490 127.978 -75.718  1.00 94.25      RS18
ATOM  49643  CA  ASP R  33     173.167 127.853 -77.007  1.00 94.25      RS18
ATOM  49644  CB  ASP R  33     173.455 129.231 -77.591  1.00106.11      RS18
ATOM  49645  CG  ASP R  33     173.927 129.161 -79.024  1.00106.11      RS18
ATOM  49646  OD1 ASP R  33     174.736 128.264 -79.340  1.00106.11      RS18
ATOM  49647  OD2 ASP R  33     173.494 130.006 -79.835  1.00106.11      RS18
ATOM  49648  C   ASP R  33     174.481 127.098 -76.862  1.00 94.25      RS18
ATOM  49649  O   ASP R  33     175.487 127.662 -76.421  1.00 94.25      RS18
ATOM  49650  N   TYR R  34     174.482 125.829 -77.255  1.00 53.48      RS18
ATOM  49651  CA  TYR R  34     175.679 125.016 -77.132  1.00 53.48      RS18
ATOM  49652  CB  TYR R  34     175.292 123.556 -76.971  1.00 63.33      RS18
ATOM  49653  CG  TYR R  34     174.548 123.007 -78.147  1.00 63.33      RS18
ATOM  49654  CD1 TYR R  34     175.221 122.553 -79.271  1.00 63.33      RS18
ATOM  49655  CE1 TYR R  34     174.537 122.061 -80.366  1.00 63.33      RS18
ATOM  49656  CD2 TYR R  34     173.165 122.955 -78.142  1.00 63.33      RS18
ATOM  49657  CE2 TYR R  34     172.463 122.462 -79.230  1.00 63.33      RS18
ATOM  49658  CZ  TYR R  34     173.154 122.016 -80.341  1.00 63.33      RS18
ATOM  49659  OH  TYR R  34     172.454 121.524 -81.421  1.00 63.33      RS18
ATOM  49660  C   TYR R  34     176.607 125.157 -78.315  1.00 53.48      RS18
ATOM  49661  O   TYR R  34     177.219 124.179 -78.730  1.00 53.48      RS18
ATOM  49662  N   ARG R  35     176.716 126.367 -78.860  1.00 59.86      RS18
ATOM  49663  CA  ARG R  35     177.586 126.604 -80.009  1.00 59.86      RS18
ATOM  49664  CB  ARG R  35     176.845 126.298 -81.304  1.00 63.72      RS18
ATOM  49665  CG  ARG R  35     176.386 124.874 -81.391  1.00 63.72      RS18
ATOM  49666  CD  ARG R  35     175.892 124.555 -82.771  1.00 63.72      RS18
ATOM  49667  NE  ARG R  35     174.778 125.407 -83.169  1.00 63.72      RS18
ATOM  49668  CZ  ARG R  35     174.313 125.486 -84.412  1.00 63.72      RS18
ATOM  49669  NH1 ARG R  35     174.864 124.770 -85.381  1.00 63.72      RS18
ATOM  49670  NH2 ARG R  35     173.296 126.282 -84.688  1.00 63.72      RS18
ATOM  49671  C   ARG R  35     178.131 128.017 -80.067  1.00 59.86      RS18
ATOM  49672  O   ARG R  35     179.002 128.311 -80.885  1.00 59.86      RS18
ATOM  49673  N   ASN R  36     177.623 128.885 -79.197  1.00 50.18      RS18
ATOM  49674  CA  ASN R  36     178.061 130.280 -79.152  1.00 50.18      RS18
ATOM  49675  CB  ASN R  36     177.119 131.091 -78.261  1.00123.39      RS18
ATOM  49676  CG  ASN R  36     177.292 132.582 -78.439  1.00123.39      RS18
ATOM  49677  OD1 ASN R  36     176.509 133.379 -77.922  1.00123.39      RS18
ATOM  49678  ND2 ASN R  36     178.323 132.969 -79.173  1.00123.39      RS18
ATOM  49679  C   ASN R  36     179.494 130.348 -78.622  1.00 50.18      RS18
ATOM  49680  O   ASN R  36     179.839 131.182 -77.779  1.00 50.18      RS18
ATOM  49681  N   VAL R  37     180.317 129.452 -79.153  1.00 50.74      RS18
ATOM  49682  CA  VAL R  37     181.709 129.320 -78.781  1.00 50.74      RS18
ATOM  49683  CB  VAL R  37     182.544 128.792 -79.944  1.00 75.23      RS18
ATOM  49684  CG1 VAL R  37     183.923 128.379 -79.442  1.00 75.23      RS18
ATOM  49685  CG2 VAL R  37     181.825 127.629 -80.609  1.00 75.23      RS18
ATOM  49686  C   VAL R  37     182.316 130.615 -78.332  1.00 50.74      RS18
ATOM  49687  O   VAL R  37     183.176 130.625 -77.465  1.00 50.74      RS18
ATOM  49688  N   GLU R  38     181.873 131.713 -78.925  1.00 63.90      RS18
ATOM  49689  CA  GLU R  38     182.413 133.015 -78.572  1.00 63.90      RS18
ATOM  49690  CB  GLU R  38     181.998 134.057 -79.617  1.00190.98      RS18
ATOM  49691  CG  GLU R  38     180.663 133.782 -80.297  1.00190.98      RS18
ATOM  49692  CD  GLU R  38     180.692 132.564 -81.213  1.00190.98      RS18
ATOM  49693  OE1 GLU R  38     179.620 132.172 -81.723  1.00190.98      RS18
ATOM  49694  OE2 GLU R  38     181.785 132.000 -81.430  1.00190.98      RS18
ATOM  49695  C   GLU R  38     181.995 133.455 -77.177  1.00 63.90      RS18
ATOM  49696  O   GLU R  38     182.835 133.793 -76.340  1.00 63.90      RS18
ATOM  49697  N   VAL R  39     180.694 133.424 -76.927  1.00 59.26      RS18
ATOM  49698  CA  VAL R  39     180.147 133.830 -75.640  1.00 59.26      RS18
ATOM  49699  CB  VAL R  39     178.614 133.939 -75.733  1.00 42.31      RS18
ATOM  49700  CG1 VAL R  39     177.943 132.986 -74.742  1.00 42.31      RS18
ATOM  49701  CG2 VAL R  39     178.196 135.370 -75.486  1.00 42.31      RS18
ATOM  49702  C   VAL R  39     180.519 132.886 -74.496  1.00 59.26      RS18
ATOM  49703  O   VAL R  39     180.800 133.320 -73.379  1.00 59.26      RS18
ATOM  49704  N   LEU R  40     180.510 131.592 -74.787  1.00 51.10      RS18
ATOM  49705  CA  LEU R  40     180.828 130.586 -73.793  1.00 51.10      RS18
ATOM  49706  CB  LEU R  40     180.621 129.206 -74.406  1.00 46.46      RS18
ATOM  49707  CG  LEU R  40     179.224 129.168 -75.035  1.00 46.46      RS18
ATOM  49708  CD1 LEU R  40     178.894 127.777 -75.565  1.00 46.46      RS18
ATOM  49709  CD2 LEU R  40     178.202 129.588 -73.991  1.00 46.46      RS18
ATOM  49710  C   LEU R  40     182.246 130.747 -73.260  1.00 51.10      RS18
ATOM  49711  O   LEU R  40     182.458 130.877 -72.050  1.00 51.10      RS18
ATOM  49712  N   LYS R  41     183.206 130.746 -74.178  1.00 41.22      RS18
ATOM  49713  CA  LYS R  41     184.617 130.901 -73.857  1.00 41.22      RS18
ATOM  49714  CB  LYS R  41     185.355 131.435 -75.085  1.00175.73      RS18
ATOM  49715  CG  LYS R  41     186.867 131.386 -75.003  1.00175.73      RS18
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ATOM  49716  CD  LYS R  41     187.496 132.312 -76.042  1.00175.73      RS18
ATOM  49717  CE  LYS R  41     186.995 132.025 -77.454  1.00175.73      RS18
ATOM  49718  NZ  LYS R  41     187.503 133.025 -78.440  1.00175.73      RS18
ATOM  49719  C   LYS R  41     184.746 131.890 -72.707  1.00 41.22      RS18
ATOM  49720  O   LYS R  41     185.628 131.767 -71.863  1.00 41.22      RS18
ATOM  49721  N   ARG R  42     183.841 132.866 -72.676  1.00 53.72      RS18
ATOM  49722  CA  ARG R  42     183.839 133.904 -71.648  1.00 53.72      RS18
ATOM  49723  CB  ARG R  42     182.688 134.890 -71.894  1.00136.59      RS18
ATOM  49724  CG  ARG R  42     182.639 135.506 -73.289  1.00136.59      RS18
ATOM  49725  CD  ARG R  42     183.667 136.615 -73.498  1.00136.59      RS18
ATOM  49726  NE  ARG R  42     183.356 137.847 -72.772  1.00136.59      RS18
ATOM  49727  CZ  ARG R  42     183.679 138.081 -71.502  1.00136.59      RS18
ATOM  49728  NH1 ARG R  42     184.332 137.166 -70.797  1.00136.59      RS18
ATOM  49729  NH2 ARG R  42     183.357 139.238 -70.938  1.00136.59      RS18
ATOM  49730  C   ARG R  42     183.708 133.339 -70.239  1.00 53.72      RS18
ATOM  49731  O   ARG R  42     184.358 133.818 -69.308  1.00 53.72      RS18
ATOM  49732  N   PHE R  43     182.864 132.322 -70.087  1.00 51.46      RS18
ATOM  49733  CA  PHE R  43     182.634 131.725 -68.785  1.00 51.46      RS18
ATOM  49734  CB  PHE R  43     181.256 131.070 -68.750  1.00 62.64      RS18
ATOM  49735  CG  PHE R  43     180.139 132.062 -68.773  1.00 62.64      RS18
ATOM  49736  CD1 PHE R  43     179.499 132.389 -69.964  1.00 62.64      RS18
ATOM  49737  CD2 PHE R  43     179.784 132.746 -67.616  1.00 62.64      RS18
ATOM  49738  CE1 PHE R  43     178.520 133.395 -70.005  1.00 62.64      RS18
ATOM  49739  CE2 PHE R  43     178.812 133.749 -67.647  1.00 62.64      RS18
ATOM  49740  CZ  PHE R  43     178.181 134.073 -68.845  1.00 62.64      RS18
ATOM  49741  C   PHE R  43     183.696 130.753 -68.309  1.00 51.46      RS18
ATOM  49742  O   PHE R  43     183.679 130.335 -67.151  1.00 51.46      RS18
ATOM  49743  N   LEU R  44     184.626 130.392 -69.186  1.00 53.01      RS18
ATOM  49744  CA  LEU R  44     185.689 129.479 -68.788  1.00 53.01      RS18
ATOM  49745  CB  LEU R  44     186.188 128.680 -69.987  1.00 72.62      RS18
ATOM  49746  CG  LEU R  44     185.138 127.809 -70.679  1.00 72.62      RS18
ATOM  49747  CD1 LEU R  44     185.793 127.027 -71.799  1.00 72.62      RS18
ATOM  49748  CD2 LEU R  44     184.505 126.856 -69.679  1.00 72.62      RS18
ATOM  49749  C   LEU R  44     186.831 130.282 -68.190  1.00 53.01      RS18
ATOM  49750  O   LEU R  44     186.886 131.499 -68.346  1.00 53.01      RS18
ATOM  49751  N   SER R  45     187.739 129.611 -67.495  1.00 43.51      RS18
ATOM  49752  CA  SER R  45     188.870 130.305 -66.894  1.00 43.51      RS18
ATOM  49753  CB  SER R  45     189.165 129.746 -65.500  1.00 75.75      RS18
ATOM  49754  OG  SER R  45     189.590 128.390 -65.560  1.00 75.75      RS18
ATOM  49755  C   SER R  45     190.103 130.133 -67.766  1.00 43.51      RS18
ATOM  49756  O   SER R  45     190.008 129.879 -68.974  1.00 43.51      RS18
ATOM  49757  N   GLU R  46     191.265 130.271 -67.132  1.00 91.47      RS18
ATOM  49758  CA  GLU R  46     192.551 130.111 -67.797  1.00 91.47      RS18
ATOM  49759  CB  GLU R  46     193.642 130.832 -66.999  1.00201.30      RS18
ATOM  49760  CG  GLU R  46     193.417 132.339 -66.851  1.00201.30      RS18
ATOM  49761  CD  GLU R  46     192.123 132.685 -66.123  1.00201.30      RS18
ATOM  49762  OE1 GLU R  46     191.981 132.312 -64.939  1.00201.30      RS18
ATOM  49763  OE2 GLU R  46     191.246 133.332 -66.736  1.00201.30      RS18
ATOM  49764  C   GLU R  46     192.803 128.607 -67.826  1.00 91.47      RS18
ATOM  49765  O   GLU R  46     193.900 128.130 -67.557  1.00 91.47      RS18
ATOM  49766  N   THR R  47     191.740 127.881 -68.147  1.00 45.95      RS18
ATOM  49767  CA  THR R  47     191.714 126.426 -68.233  1.00 45.95      RS18
ATOM  49768  CB  THR R  47     191.962 125.754 -66.858  1.00 55.40      RS18
ATOM  49769  OG1 THR R  47     193.187 126.234 -66.284  1.00 55.40      RS18
ATOM  49770  CG2 THR R  47     192.032 124.240 -67.016  1.00 55.40      RS18
ATOM  49771  C   THR R  47     190.271 126.135 -68.645  1.00 45.95      RS18
ATOM  49772  O   THR R  47     189.388 126.974 -68.452  1.00 45.95      RS18
ATOM  49773  N   GLY R  48     190.018 124.961 -69.205  1.00 88.67      RS18
ATOM  49774  CA  GLY R  48     188.661 124.646 -69.613  1.00 88.67      RS18
ATOM  49775  C   GLY R  48     187.686 124.754 -68.456  1.00 88.67      RS18
ATOM  49776  O   GLY R  48     186.475 124.720 -68.655  1.00 88.67      RS18
ATOM  49777  N   LYS R  49     188.225 124.906 -67.249  1.00 46.75      RS18
ATOM  49778  CA  LYS R  49     187.435 124.992 -66.022  1.00 46.75      RS18
ATOM  49779  CB  LYS R  49     188.348 125.279 -64.828  1.00 80.18      RS18
ATOM  49780  CG  LYS R  49     189.271 124.116 -64.481  1.00 80.18      RS18
ATOM  49781  CD  LYS R  49     190.191 124.441 -63.317  1.00 80.18      RS18
ATOM  49782  CE  LYS R  49     190.993 123.215 -62.907  1.00 80.18      RS18
ATOM  49783  NZ  LYS R  49     191.906 123.504 -61.762  1.00 80.18      RS18
ATOM  49784  C   LYS R  49     186.347 126.032 -66.093  1.00 46.75      RS18
ATOM  49785  O   LYS R  49     186.595 127.165 -66.501  1.00 46.75      RS18
ATOM  49786  N   ILE R  50     185.140 125.618 -65.704  1.00 54.99      RS18
ATOM  49787  CA  ILE R  50     183.967 126.482 -65.695  1.00 54.99      RS18
ATOM  49788  CB  ILE R  50     182.683 125.704 -65.531  1.00 33.50      RS18
ATOM  49789  CG2 ILE R  50     181.531 126.673 -65.409  1.00 33.50      RS18
ATOM  49790  CG1 ILE R  50     182.477 124.755 -66.706  1.00 33.50      RS18
ATOM  49791  CD1 ILE R  50     181.196 123.928 -66.599  1.00 33.50      RS18
ATOM  49792  C   ILE R  50     184.039 127.405 -64.504  1.00 54.99      RS18
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ATOM  49793  O   ILE R  50     184.348 126.974 -63.394  1.00 54.99      RS18
ATOM  49794  N   LEU R  51     183.722 128.673 -64.719  1.00 52.80      RS18
ATOM  49795  CA  LEU R  51     183.780 129.639 -63.635  1.00 52.80      RS18
ATOM  49796  CB  LEU R  51     183.756 131.050 -64.209  1.00 67.23      RS18
ATOM  49797  CG  LEU R  51     185.044 131.399 -64.940  1.00 67.23      RS18
ATOM  49798  CD1 LEU R  51     184.881 132.709 -65.698  1.00 67.23      RS18
ATOM  49799  CD2 LEU R  51     186.174 131.472 -63.922  1.00 67.23      RS18
ATOM  49800  C   LEU R  51     182.688 129.500 -62.581  1.00 52.80      RS18
ATOM  49801  O   LEU R  51     181.569 129.071 -62.865  1.00 52.80      RS18
ATOM  49802  N   PRO R  52     183.022 129.837 -61.333  1.00 55.18      RS18
ATOM  49803  CD  PRO R  52     184.407 129.957 -60.867  1.00 38.92      RS18
ATOM  49804  CA  PRO R  52     182.111 129.783 -60.193  1.00 55.18      RS18
ATOM  49805  CB  PRO R  52     183.032 130.021 -59.009  1.00 38.92      RS18
ATOM  49806  CG  PRO R  52     184.296 129.434 -59.471  1.00 38.92      RS18
ATOM  49807  C   PRO R  52     181.128 130.918 -60.369  1.00 55.18      RS18
ATOM  49808  O   PRO R  52     181.138 131.586 -61.402  1.00 55.18      RS18
ATOM  49809  N   ARG R  53     180.284 131.154 -59.374  1.00 45.53      RS18
ATOM  49810  CA  ARG R  53     179.347 132.241 -59.523  1.00 45.53      RS18
ATOM  49811  CB  ARG R  53     178.142 132.051 -58.601  1.00113.49      RS18
ATOM  49812  CG  ARG R  53     176.925 132.847 -59.068  1.00113.49      RS18
ATOM  49813  CD  ARG R  53     175.665 132.538 -58.272  1.00113.49      RS18
ATOM  49814  NE  ARG R  53     175.176 131.184 -58.499  1.00113.49      RS18
ATOM  49815  CZ  ARG R  53     174.091 130.682 -57.922  1.00113.49      RS18
ATOM  49816  NH1 ARG R  53     173.379 131.424 -57.084  1.00113.49      RS18
ATOM  49817  NH2 ARG R  53     173.727 129.434 -58.174  1.00113.49      RS18
ATOM  49818  C   ARG R  53     180.045 133.582 -59.261  1.00 45.53      RS18
ATOM  49819  O   ARG R  53     179.829 134.549 -59.997  1.00 45.53      RS18
ATOM  49820  N   ARG R  54     180.899 133.635 -58.238  1.00 83.28      RS18
ATOM  49821  CA  ARG R  54     181.612 134.869 -57.908  1.00 83.28      RS18
ATOM  49822  CB  ARG R  54     182.759 134.596 -56.943  1.00140.02      RS18
ATOM  49823  CG  ARG R  54     182.398 133.787 -55.727  1.00140.02      RS18
ATOM  49824  CD  ARG R  54     183.427 132.691 -55.565  1.00140.02      RS18
ATOM  49825  NE  ARG R  54     184.777 133.207 -55.778  1.00140.02      RS18
ATOM  49826  CZ  ARG R  54     185.847 132.445 -55.982  1.00140.02      RS18
ATOM  49827  NH1 ARG R  54     185.727 131.123 -56.000  1.00140.02      RS18
ATOM  49828  NH2 ARG R  54     187.037 133.003 -56.173  1.00140.02      RS18
ATOM  49829  C   ARG R  54     182.192 135.471 -59.176  1.00 83.28      RS18
ATOM  49830  O   ARG R  54     182.460 136.668 -59.243  1.00 83.28      RS18
ATOM  49831  N   ARG R  55     182.392 134.626 -60.178  1.00 30.95      RS18
ATOM  49832  CA  ARG R  55     182.942 135.065 -61.448  1.00 30.95      RS18
ATOM  49833  CB  ARG R  55     184.106 134.162 -61.828  1.00117.53      RS18
ATOM  49834  CG  ARG R  55     185.198 134.149 -60.793  1.00117.53      RS18
ATOM  49835  CD  ARG R  55     186.012 135.426 -60.838  1.00117.53      RS18
ATOM  49836  NE  ARG R  55     187.354 135.175 -61.361  1.00117.53      RS18
ATOM  49837  CZ  ARG R  55     187.627 134.892 -62.630  1.00117.53      RS18
ATOM  49838  NH1 ARG R  55     186.648 134.830 -63.523  1.00117.53      RS18
ATOM  49839  NH2 ARG R  55     188.879 134.657 -63.004  1.00117.53      RS18
ATOM  49840  C   ARG R  55     181.890 135.056 -62.557  1.00 30.95      RS18
ATOM  49841  O   ARG R  55     181.678 136.063 -63.225  1.00 30.95      RS18
ATOM  49842  N   THR R  56     181.237 133.921 -62.769  1.00 27.20      RS18
ATOM  49843  CA  THR R  56     180.225 133.855 -63.805  1.00 27.20      RS18
ATOM  49844  CB  THR R  56     179.490 132.524 -63.803  1.00 62.77      RS18
ATOM  49845  OG1 THR R  56     178.924 132.297 -62.511  1.00 62.77      RS18
ATOM  49846  CG2 THR R  56     180.437 131.406 -64.145  1.00 62.77      RS18
ATOM  49847  C   THR R  56     179.196 134.943 -63.597  1.00 27.20      RS18
ATOM  49848  O   THR R  56     178.588 135.409 -64.550  1.00 27.20      RS18
ATOM  49849  N   GLY R  57     178.998 135.350 -62.349  1.00 70.78      RS18
ATOM  49850  CA  GLY R  57     178.023 136.389 -62.070  1.00 70.78      RS18
ATOM  49851  C   GLY R  57     176.607 135.908 -62.330  1.00 70.78      RS18
ATOM  49852  O   GLY R  57     175.645 136.641 -62.112  1.00 70.78      RS18
ATOM  49853  N   LEU R  58     176.483 134.673 -62.810  1.00 69.52      RS18
ATOM  49854  CA  LEU R  58     175.186 134.068 -63.094  1.00 69.52      RS18
ATOM  49855  CB  LEU R  58     175.370 132.749 -63.831  1.00 52.10      RS18
ATOM  49856  CG  LEU R  58     175.695 132.753 -65.314  1.00 52.10      RS18
ATOM  49857  CD1 LEU R  58     176.110 131.364 -65.724  1.00 52.10      RS18
ATOM  49858  CD2 LEU R  58     174.480 133.183 -66.099  1.00 52.10      RS18
ATOM  49859  C   LEU R  58     174.416 133.798 -61.808  1.00 69.52      RS18
ATOM  49860  O   LEU R  58     174.792 134.264 -60.737  1.00 69.52      RS18
ATOM  49861  N   SER R  59     173.353 133.011 -61.921  1.00 44.45      RS18
ATOM  49862  CA  SER R  59     172.502 132.691 -60.785  1.00 44.45      RS18
ATOM  49863  CB  SER R  59     171.171 133.402 -60.923  1.00 59.78      RS18
ATOM  49864  OG  SER R  59     170.369 132.708 -61.868  1.00 59.78      RS18
ATOM  49865  C   SER R  59     172.209 131.212 -60.749  1.00 44.45      RS18
ATOM  49866  O   SER R  59     172.473 130.503 -61.715  1.00 44.45      RS18
ATOM  49867  N   GLY R  60     171.618 130.763 -59.646  1.00 41.41      RS18
ATOM  49868  CA  GLY R  60     171.275 129.360 -59.505  1.00 41.41      RS18
ATOM  49869  C   GLY R  60     170.810 128.755 -60.813  1.00 41.41      RS18
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ATOM  49870  O   GLY R  60     171.554 128.031 -61.471  1.00 41.41      RS18
ATOM  49871  N   LYS R  61     169.584 129.074 -61.207  1.00 56.44      RS18
ATOM  49872  CA  LYS R  61     169.025 128.536 -62.437  1.00 56.44      RS18
ATOM  49873  CB  LYS R  61     167.656 129.156 -62.709  1.00 44.32      RS18
ATOM  49874  CG  LYS R  61     166.870 128.446 -63.776  1.00 44.32      RS18
ATOM  49875  CD  LYS R  61     165.477 129.025 -63.890  1.00 44.32      RS18
ATOM  49876  CE  LYS R  61     164.624 128.186 -64.836  1.00 44.32      RS18
ATOM  49877  NZ  LYS R  61     163.205 128.647 -64.932  1.00 44.32      RS18
ATOM  49878  C   LYS R  61     169.943 128.755 -63.632  1.00 56.44      RS18
ATOM  49879  O   LYS R  61     170.210 127.822 -64.380  1.00 56.44      RS18
ATOM  49880  N   GLU R  62     170.429 129.977 -63.815  1.00 49.80      RS18
ATOM  49881  CA  GLU R  62     171.316 130.252 -64.939  1.00 49.80      RS18
ATOM  49882  CB  GLU R  62     171.736 131.715 -64.946  1.00 75.52      RS18
ATOM  49883  CG  GLU R  62     170.608 132.692 -64.835  1.00 75.52      RS18
ATOM  49884  CD  GLU R  62     171.107 134.122 -64.804  1.00 75.52      RS18
ATOM  49885  OE1 GLU R  62     172.020 134.420 -63.999  1.00 75.52      RS18
ATOM  49886  OE2 GLU R  62     170.583 134.951 -65.582  1.00 75.52      RS18
ATOM  49887  C   GLU R  62     172.573 129.381 -64.853  1.00 49.80      RS18
ATOM  49888  O   GLU R  62     172.705 128.397 -65.577  1.00 49.80      RS18
ATOM  49889  N   GLN R  63     173.487 129.767 -63.964  1.00 47.74      RS18
ATOM  49890  CA  GLN R  63     174.753 129.071 -63.728  1.00 47.74      RS18
ATOM  49891  CB  GLN R  63     175.260 129.407 -62.324  1.00 48.77      RS18
ATOM  49892  CG  GLN R  63     176.465 128.611 -61.852  1.00 48.77      RS18
ATOM  49893  CD  GLN R  63     177.739 129.009 -62.555  1.00 48.77      RS18
ATOM  49894  OE1 GLN R  63     177.840 130.108 -63.095  1.00 48.77      RS18
ATOM  49895  NE2 GLN R  63     178.731 128.124 -62.535  1.00 48.77      RS18
ATOM  49896  C   GLN R  63     174.618 127.567 -63.859  1.00 47.74      RS18
ATOM  49897  O   GLN R  63     175.601 126.847 -64.056  1.00 47.74      RS18
ATOM  49898  N   ARG R  64     173.387 127.094 -63.743  1.00 40.71      RS18
ATOM  49899  CA  ARG R  64     173.118 125.675 -63.837  1.00 40.71      RS18
ATOM  49900  CB  ARG R  64     171.829 125.346 -63.091  1.00 53.19      RS18
ATOM  49901  CG  ARG R  64     171.673 123.884 -62.733  1.00 53.19      RS18
ATOM  49902  CD  ARG R  64     170.324 123.660 -62.110  1.00 53.19      RS18
ATOM  49903  NE  ARG R  64     170.064 124.632 -61.059  1.00 53.19      RS18
ATOM  49904  CZ  ARG R  64     168.849 124.963 -60.639  1.00 53.19      RS18
ATOM  49905  NH1 ARG R  64     167.773 124.403 -61.181  1.00 53.19      RS18
ATOM  49906  NH2 ARG R  64     168.709 125.853 -59.674  1.00 53.19      RS18
ATOM  49907  C   ARG R  64     172.988 125.246 -65.283  1.00 40.71      RS18
ATOM  49908  O   ARG R  64     173.458 124.181 -65.662  1.00 40.71      RS18
ATOM  49909  N   ILE R  65     172.333 126.079 -66.082  1.00 54.08      RS18
ATOM  49910  CA  ILE R  65     172.131 125.775 -67.489  1.00 54.08      RS18
ATOM  49911  CB  ILE R  65     171.039 126.661 -68.103  1.00 70.03      RS18
ATOM  49912  CG2 ILE R  65     170.343 125.904 -69.230  1.00 70.03      RS18
ATOM  49913  CG1 ILE R  65     170.005 127.018 -67.033  1.00 70.03      RS18
ATOM  49914  CD1 ILE R  65     168.992 128.055 -67.456  1.00 70.03      RS18
ATOM  49915  C   ILE R  65     173.437 126.022 -68.211  1.00 54.08      RS18
ATOM  49916  O   ILE R  65     173.796 125.306 -69.146  1.00 54.08      RS18
ATOM  49917  N   LEU R  66     174.148 127.049 -67.767  1.00 42.37      RS18
ATOM  49918  CA  LEU R  66     175.426 127.373 -68.359  1.00 42.37      RS18
ATOM  49919  CB  LEU R  66     176.177 128.372 -67.493  1.00 34.47      RS18
ATOM  49920  CG  LEU R  66     177.556 128.687 -68.053  1.00 34.47      RS18
ATOM  49921  CD1 LEU R  66     177.380 129.486 -69.327  1.00 34.47      RS18
ATOM  49922  CD2 LEU R  66     178.384 129.469 -67.049  1.00 34.47      RS18
ATOM  49923  C   LEU R  66     176.185 126.071 -68.371  1.00 42.37      RS18
ATOM  49924  O   LEU R  66     176.437 125.493 -69.429  1.00 42.37      RS18
ATOM  49925  N   ALA R  67     176.507 125.610 -67.164  1.00 31.38      RS18
ATOM  49926  CA  ALA R  67     177.250 124.374 -66.936  1.00 31.38      RS18
ATOM  49927  CB  ALA R  67     177.044 123.913 -65.505  1.00113.97      RS18
ATOM  49928  C   ALA R  67     176.907 123.249 -67.899  1.00 31.38      RS18
ATOM  49929  O   ALA R  67     177.780 122.728 -68.581  1.00 31.38      RS18
ATOM  49930  N   LYS R  68     175.643 122.869 -67.963  1.00 31.68      RS18
ATOM  49931  CA  LYS R  68     175.264 121.802 -68.865  1.00 31.68      RS18
ATOM  49932  CB  LYS R  68     173.788 121.456 -68.715  1.00103.33      RS18
ATOM  49933  CG  LYS R  68     173.392 120.229 -69.509  1.00103.33      RS18
ATOM  49934  CD  LYS R  68     171.900 120.000 -69.445  1.00103.33      RS18
ATOM  49935  CE  LYS R  68     171.488 118.858 -70.348  1.00103.33      RS18
ATOM  49936  NZ  LYS R  68     170.009 118.718 -70.423  1.00103.33      RS18
ATOM  49937  C   LYS R  68     175.561 122.205 -70.305  1.00 31.68      RS18
ATOM  49938  O   LYS R  68     176.173 121.444 -71.054  1.00 31.68      RS18
ATOM  49939  N   THR R  69     175.142 123.401 -70.702  1.00 54.43      RS18
ATOM  49940  CA  THR R  69     175.404 123.861 -72.065  1.00 54.43      RS18
ATOM  49941  CB  THR R  69     175.013 125.343 -72.241  1.00 67.45      RS18
ATOM  49942  OG1 THR R  69     173.592 125.445 -72.401  1.00 67.45      RS18
ATOM  49943  CG2 THR R  69     175.703 125.940 -73.457  1.00 67.45      RS18
ATOM  49944  C   THR R  69     176.882 123.696 -72.407  1.00 54.43      RS18
ATOM  49945  O   THR R  69     177.240 123.042 -73.382  1.00 54.43      RS18
ATOM  49946  N   ILE R  70     177.731 124.295 -71.587  1.00 42.87      RS18
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ATOM  49947  CA  ILE R  70     179.164 124.223 -71.783  1.00 42.87      RS18
ATOM  49948  CB  ILE R  70     179.903 124.719 -70.551  1.00 36.95      RS18
ATOM  49949  CG2 ILE R  70     181.398 124.454 -70.687  1.00 36.95      RS18
ATOM  49950  CG1 ILE R  70     179.613 126.199 -70.357  1.00 36.95      RS18
ATOM  49951  CD1 ILE R  70     180.077 126.707 -69.030  1.00 36.95      RS18
ATOM  49952  C   ILE R  70     179.629 122.813 -72.051  1.00 42.87      RS18
ATOM  49953  O   ILE R  70     180.396 122.574 -72.977  1.00 42.87      RS18
ATOM  49954  N   LYS R  71     179.176 121.871 -71.239  1.00 39.87      RS18
ATOM  49955  CA  LYS R  71     179.610 120.504 -71.431  1.00 39.87      RS18
ATOM  49956  CB  LYS R  71     178.961 119.597 -70.395  1.00 51.89      RS18
ATOM  49957  CG  LYS R  71     179.523 119.833 -68.998  1.00 51.89      RS18
ATOM  49958  CD  LYS R  71     178.835 118.961 -67.974  1.00 51.89      RS18
ATOM  49959  CE  LYS R  71     179.116 119.420 -66.558  1.00 51.89      RS18
ATOM  49960  NZ  LYS R  71     178.209 118.709 -65.608  1.00 51.89      RS18
ATOM  49961  C   LYS R  71     179.364 119.991 -72.844  1.00 39.87      RS18
ATOM  49962  O   LYS R  71     180.184 119.239 -73.381  1.00 39.87      RS18
ATOM  49963  N   ARG R  72     178.256 120.410 -73.454  1.00 53.31      RS18
ATOM  49964  CA  ARG R  72     177.926 119.995 -74.821  1.00 53.31      RS18
ATOM  49965  CB  ARG R  72     176.561 120.541 -75.239  1.00 73.97      RS18
ATOM  49966  CG  ARG R  72     175.380 119.838 -74.609  1.00 73.97      RS18
ATOM  49967  CD  ARG R  72     174.086 120.538 -74.978  1.00 73.97      RS18
ATOM  49968  NE  ARG R  72     172.902 119.758 -74.627  1.00 73.97      RS18
ATOM  49969  CZ  ARG R  72     171.651 120.167 -74.823  1.00 73.97      RS18
ATOM  49970  NH1 ARG R  72     171.408 121.356 -75.366  1.00 73.97      RS18
ATOM  49971  NH2 ARG R  72     170.638 119.380 -74.482  1.00 73.97      RS18
ATOM  49972  C   ARG R  72     178.985 120.527 -75.770  1.00 53.31      RS18
ATOM  49973  O   ARG R  72     179.607 119.774 -76.516  1.00 53.31      RS18
ATOM  49974  N   ALA R  73     179.181 121.837 -75.735  1.00 48.37      RS18
ATOM  49975  CA  ALA R  73     180.169 122.471 -76.586  1.00 48.37      RS18
ATOM  49976  CB  ALA R  73     180.404 123.909 -76.136  1.00 66.38      RS18
ATOM  49977  C   ALA R  73     181.454 121.668 -76.474  1.00 48.37      RS18
ATOM  49978  O   ALA R  73     182.017 121.220 -77.475  1.00 48.37      RS18
ATOM  49979  N   ARG R  74     181.908 121.480 -75.242  1.00 48.35      RS18
ATOM  49980  CA  ARG R  74     183.121 120.727 -75.016  1.00 48.35      RS18
ATOM  49981  CB  ARG R  74     183.249 120.352 -73.536  1.00 31.97      RS18
ATOM  49982  CG  ARG R  74     183.825 121.461 -72.650  1.00 31.97      RS18
ATOM  49983  CD  ARG R  74     183.962 120.994 -71.206  1.00 31.97      RS18
ATOM  49984  NE  ARG R  74     184.544 121.995 -70.311  1.00 31.97      RS18
ATOM  49985  CZ  ARG R  74     184.633 121.844 -68.992  1.00 31.97      RS18
ATOM  49986  NH1 ARG R  74     184.179 120.737 -68.424  1.00 31.97      RS18
ATOM  49987  NH2 ARG R  74     185.173 122.789 -68.243  1.00 31.97      RS18
ATOM  49988  C   ARG R  74     183.096 119.480 -75.881  1.00 48.35      RS18
ATOM  49989  O   ARG R  74     184.003 119.241 -76.670  1.00 48.35      RS18
ATOM  49990  N   ILE R  75     182.035 118.702 -75.758  1.00 32.61      RS18
ATOM  49991  CA  ILE R  75     181.930 117.481 -76.530  1.00 32.61      RS18
ATOM  49992  CB  ILE R  75     180.649 116.716 -76.164  1.00 69.18      RS18
ATOM  49993  CG2 ILE R  75     180.459 115.521 -77.090  1.00 69.18      RS18
ATOM  49994  CG1 ILE R  75     180.740 116.262 -74.707  1.00 69.18      RS18
ATOM  49995  CD1 ILE R  75     179.597 115.395 -74.267  1.00 69.18      RS18
ATOM  49996  C   ILE R  75     181.995 117.681 -78.042  1.00 32.61      RS18
ATOM  49997  O   ILE R  75     182.567 116.856 -78.751  1.00 32.61      RS18
ATOM  49998  N   LEU R  76     181.417 118.757 -78.554  1.00 47.98      RS18
ATOM  49999  CA  LEU R  76     181.473 118.983 -79.992  1.00 47.98      RS18
ATOM  50000  CB  LEU R  76     180.362 119.923 -80.425  1.00 27.59      RS18
ATOM  50001  CG  LEU R  76     178.952 119.428 -80.144  1.00 27.59      RS18
ATOM  50002  CD1 LEU R  76     177.988 120.501 -80.569  1.00 27.59      RS18
ATOM  50003  CD2 LEU R  76     178.672 118.146 -80.895  1.00 27.59      RS18
ATOM  50004  C   LEU R  76     182.810 119.601 -80.344  1.00 47.98      RS18
ATOM  50005  O   LEU R  76     182.940 120.279 -81.352  1.00 47.98      RS18
ATOM  50006  N   GLY R  77     183.800 119.380 -79.491  1.00 43.05      RS18
ATOM  50007  CA  GLY R  77     185.119 119.929 -79.733  1.00 43.05      RS18
ATOM  50008  C   GLY R  77     185.150 121.443 -79.817  1.00 43.05      RS18
ATOM  50009  O   GLY R  77     186.145 122.029 -80.235  1.00 43.05      RS18
ATOM  50010  N   LEU R  78     184.073 122.091 -79.403  1.00 41.79      RS18
ATOM  50011  CA  LEU R  78     184.033 123.538 -79.470  1.00 41.79      RS18
ATOM  50012  CB  LEU R  78     182.584 124.004 -79.566  1.00 48.43      RS18
ATOM  50013  CG  LEU R  78     181.849 123.264 -80.682  1.00 48.43      RS18
ATOM  50014  CD1 LEU R  78     180.515 123.926 -80.957  1.00 48.43      RS18
ATOM  50015  CD2 LEU R  78     182.702 123.268 -81.933  1.00 48.43      RS18
ATOM  50016  C   LEU R  78     184.744 124.228 -78.312  1.00 41.79      RS18
ATOM  50017  O   LEU R  78     185.267 125.336 -78.474  1.00 41.79      RS18
ATOM  50018  N   LEU R  79     184.768 123.581 -77.149  1.00 34.81      RS18
ATOM  50019  CA  LEU R  79     185.438 124.148 -75.978  1.00 34.81      RS18
ATOM  50020  CB  LEU R  79     184.408 124.635 -74.959  1.00 47.76      RS18
ATOM  50021  CG  LEU R  79     183.467 125.732 -75.455  1.00 47.76      RS18
ATOM  50022  CD1 LEU R  79     182.535 126.170 -74.332  1.00 47.76      RS18
ATOM  50023  CD2 LEU R  79     184.291 126.909 -75.964  1.00 47.76      RS18
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ATOM  50024  C   LEU R  79     186.375 123.146 -75.313  1.00 34.81      RS18
ATOM  50025  O   LEU R  79     186.187 121.934 -75.395  1.00 34.81      RS18
ATOM  50026  N   PRO R  80     187.406 123.646 -74.640  1.00 35.44      RS18
ATOM  50027  CD  PRO R  80     187.718 125.057 -74.370  1.00 37.05      RS18
ATOM  50028  CA  PRO R  80     188.358 122.765 -73.968  1.00 35.44      RS18
ATOM  50029  CB  PRO R  80     189.495 123.700 -73.625  1.00 37.05      RS18
ATOM  50030  CG  PRO R  80     188.752 124.949 -73.258  1.00 37.05      RS18
ATOM  50031  C   PRO R  80     187.754 122.176 -72.713  1.00 35.44      RS18
ATOM  50032  O   PRO R  80     186.736 122.654 -72.211  1.00 35.44      RS18
ATOM  50033  N   PHE R  81     188.382 121.127 -72.209  1.00 75.56      RS18
ATOM  50034  CA  PHE R  81     187.925 120.512 -70.983  1.00 75.56      RS18
ATOM  50035  CB  PHE R  81     187.993 118.998 -71.074  1.00 63.05      RS18
ATOM  50036  CG  PHE R  81     186.931 118.397 -71.937  1.00 63.05      RS18
ATOM  50037  CD1 PHE R  81     186.732 118.847 -73.234  1.00 63.05      RS18
ATOM  50038  CD2 PHE R  81     186.152 117.351 -71.467  1.00 63.05      RS18
ATOM  50039  CE1 PHE R  81     185.775 118.262 -74.052  1.00 63.05      RS18
ATOM  50040  CE2 PHE R  81     185.196 116.762 -72.277  1.00 63.05      RS18
ATOM  50041  CZ  PHE R  81     185.008 117.218 -73.573  1.00 63.05      RS18
ATOM  50042  C   PHE R  81     188.926 121.005 -69.973  1.00 75.56      RS18
ATOM  50043  O   PHE R  81     188.622 121.135 -68.790  1.00 75.56      RS18
ATOM  50044  N   THR R  82     190.126 121.297 -70.465  1.00 66.13      RS18
ATOM  50045  CA  THR R  82     191.198 121.783 -69.614  1.00 66.13      RS18
ATOM  50046  CB  THR R  82     191.761 120.637 -68.760  1.00 92.25      RS18
ATOM  50047  OG1 THR R  82     192.683 121.160 -67.799  1.00 92.25      RS18
ATOM  50048  CG2 THR R  82     192.457 119.619 -69.638  1.00 92.25      RS18
ATOM  50049  C   THR R  82     192.313 122.399 -70.455  1.00 66.13      RS18
ATOM  50050  O   THR R  82     192.695 121.848 -71.481  1.00 66.13      RS18
ATOM  50051  N   GLU R  83     192.817 123.548 -70.016  1.00 45.01      RS18
ATOM  50052  CA  GLU R  83     193.879 124.263 -70.715  1.00 45.01      RS18
ATOM  50053  CB  GLU R  83     193.487 125.728 -70.914  1.00201.30      RS18
ATOM  50054  CG  GLU R  83     192.253 125.949 -71.757  1.00201.30      RS18
ATOM  50055  CD  GLU R  83     192.526 125.768 -73.233  1.00201.30      RS18
ATOM  50056  OE1 GLU R  83     193.021 124.687 -73.620  1.00201.30      RS18
ATOM  50057  OE2 GLU R  83     192.246 126.710 -74.004  1.00201.30      RS18
ATOM  50058  C   GLU R  83     195.142 124.219 -69.875  1.00 45.01      RS18
ATOM  50059  O   GLU R  83     195.072 123.981 -68.673  1.00 45.01      RS18
ATOM  50060  N   LYS R  84     196.297 124.453 -70.496  1.00 61.20      RS18
ATOM  50061  CA  LYS R  84     197.558 124.465 -69.754  1.00 61.20      RS18
ATOM  50062  CB  LYS R  84     198.731 124.128 -70.675  1.00133.80      RS18
ATOM  50063  CG  LYS R  84     198.752 122.683 -71.159  1.00133.80      RS18
ATOM  50064  CD  LYS R  84     200.062 122.373 -71.873  1.00133.80      RS18
ATOM  50065  CE  LYS R  84     200.171 120.907 -72.275  1.00133.80      RS18
ATOM  50066  NZ  LYS R  84     201.475 120.616 -72.945  1.00133.80      RS18
ATOM  50067  C   LYS R  84     197.723 125.865 -69.171  1.00 61.20      RS18
ATOM  50068  O   LYS R  84     197.110 126.814 -69.660  1.00 61.20      RS18
ATOM  50069  N   LEU R  85     198.546 126.008 -68.138  1.00 56.35      RS18
ATOM  50070  CA  LEU R  85     198.714 127.319 -67.516  1.00 56.35      RS18
ATOM  50071  CB  LEU R  85     198.619 127.185 -66.002  1.00 74.85      RS18
ATOM  50072  CG  LEU R  85     198.846 128.482 -65.232  1.00 74.85      RS18
ATOM  50073  CD1 LEU R  85     198.124 129.637 -65.911  1.00 74.85      RS18
ATOM  50074  CD2 LEU R  85     198.356 128.295 -63.806  1.00 74.85      RS18
ATOM  50075  C   LEU R  85     199.968 128.109 -67.861  1.00 56.35      RS18
ATOM  50076  O   LEU R  85     201.047 127.824 -67.345  1.00 56.35      RS18
ATOM  50077  N   VAL R  86     199.796 129.128 -68.704  1.00 66.12      RS18
ATOM  50078  CA  VAL R  86     200.882 130.005 -69.150  1.00 66.12      RS18
ATOM  50079  CB  VAL R  86     200.378 130.988 -70.220  1.00124.80      RS18
ATOM  50080  CG1 VAL R  86     201.542 131.785 -70.783  1.00124.80      RS18
ATOM  50081  CG2 VAL R  86     199.653 130.230 -71.318  1.00124.80      RS18
ATOM  50082  C   VAL R  86     201.457 130.816 -67.991  1.00 66.12      RS18
ATOM  50083  O   VAL R  86     200.734 131.143 -67.058  1.00 66.12      RS18
ATOM  50084  N   ARG R  87     202.744 131.153 -68.068  1.00 88.53      RS18
ATOM  50085  CA  ARG R  87     203.437 131.909 -67.015  1.00 88.53      RS18
ATOM  50086  CB  ARG R  87     202.600 133.092 -66.522  1.00200.61      RS18
ATOM  50087  CG  ARG R  87     202.140 134.054 -67.589  1.00200.61      RS18
ATOM  50088  CD  ARG R  87     203.293 134.633 -68.382  1.00200.61      RS18
ATOM  50089  NE  ARG R  87     202.875 135.829 -69.109  1.00200.61      RS18
ATOM  50090  CZ  ARG R  87     201.814 135.890 -69.910  1.00200.61      RS18
ATOM  50091  NH1 ARG R  87     201.053 134.820 -70.097  1.00200.61      RS18
ATOM  50092  NH2 ARG R  87     201.505 137.028 -70.519  1.00200.61      RS18
ATOM  50093  C   ARG R  87     203.700 130.982 -65.835  1.00 88.53      RS18
ATOM  50094  O   ARG R  87     203.738 129.763 -66.002  1.00 88.53      RS18
ATOM  50095  N   LYS R  88     203.875 131.570 -64.651  1.00 94.98      RS18
ATOM  50096  CA  LYS R  88     204.121 130.830 -63.404  1.00 94.98      RS18
ATOM  50097  CB  LYS R  88     203.415 129.466 -63.424  1.00 88.70      RS18
ATOM  50098  CG  LYS R  88     203.184 128.868 -62.044  1.00 88.70      RS18
ATOM  50099  CD  LYS R  88     202.951 127.378 -62.127  1.00 88.70      RS18
ATOM  50100  CE  LYS R  88     204.199 126.673 -62.633  1.00 88.70      RS18
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ATOM  50101  NZ  LYS R  88     204.071 125.189 -62.586  1.00 88.70      RS18
ATOM  50102  C   LYS R  88     205.606 130.626 -63.084  1.00 94.98      RS18
ATOM  50103  O   LYS R  88     206.437 131.387 -63.622  1.00 94.98      RS18
ATOM  50104  OXT LYS R  88     205.919 129.718 -62.279  1.00 88.70      RS18
TER   50104      LYS R  88                                              RS18
ATOM  50105  CB  PRO S   2     255.329 114.293  14.933  1.00137.46      SS19
ATOM  50106  CG  PRO S   2     254.513 113.160  14.314  1.00137.46      SS19
ATOM  50107  C   PRO S   2     254.966 113.966  17.395  1.00 94.52      SS19
ATOM  50108  O   PRO S   2     254.334 115.020  17.425  1.00 94.52      SS19
ATOM  50109  N   PRO S   2     255.898 112.173  15.934  1.00 94.52      SS19
ATOM  50110  CD  PRO S   2     255.333 111.891  14.602  1.00137.46      SS19
ATOM  50111  CA  PRO S   2     255.854 113.631  16.200  1.00 94.52      SS19
ATOM  50112  N   ARG S   3     254.933 113.059  18.371  1.00201.30      SS19
ATOM  50113  CA  ARG S   3     254.130 113.208  19.590  1.00201.30      SS19
ATOM  50114  CB  ARG S   3     254.408 112.023  20.522  1.00190.66      SS19
ATOM  50115  CG  ARG S   3     253.991 110.684  19.928  1.00190.66      SS19
ATOM  50116  CD  ARG S   3     254.588 109.502  20.676  1.00190.66      SS19
ATOM  50117  NE  ARG S   3     254.008 108.238  20.224  1.00190.66      SS19
ATOM  50118  CZ  ARG S   3     254.454 107.036  20.574  1.00190.66      SS19
ATOM  50119  NH1 ARG S   3     255.498 106.920  21.383  1.00190.66      SS19
ATOM  50120  NH2 ARG S   3     253.850 105.946  20.119  1.00190.66      SS19
ATOM  50121  C   ARG S   3     254.400 114.529  20.316  1.00201.30      SS19
ATOM  50122  O   ARG S   3     255.276 115.289  19.902  1.00201.30      SS19
ATOM  50123  N   SER S   4     253.662 114.807  21.394  1.00 85.93      SS19
ATOM  50124  CA  SER S   4     253.868 116.065  22.114  1.00 85.93      SS19
ATOM  50125  CB  SER S   4     253.356 117.221  21.258  1.00121.20      SS19
ATOM  50126  OG  SER S   4     251.963 117.103  21.026  1.00121.20      SS19
ATOM  50127  C   SER S   4     253.295 116.217  23.531  1.00 85.93      SS19
ATOM  50128  O   SER S   4     252.084 116.360  23.715  1.00 85.93      SS19
ATOM  50129  N   LEU S   5     254.183 116.219  24.525  1.00 90.97      SS19
ATOM  50130  CA  LEU S   5     253.788 116.379  25.921  1.00 90.97      SS19
ATOM  50131  CB  LEU S   5     254.360 115.243  26.770  1.00200.76      SS19
ATOM  50132  CG  LEU S   5     253.707 113.880  26.518  1.00200.76      SS19
ATOM  50133  CD1 LEU S   5     254.403 112.810  27.339  1.00200.76      SS19
ATOM  50134  CD2 LEU S   5     252.229 113.950  26.876  1.00200.76      SS19
ATOM  50135  C   LEU S   5     254.248 117.731  26.458  1.00 90.97      SS19
ATOM  50136  O   LEU S   5     253.420 118.520  26.898  1.00 90.97      SS19
ATOM  50137  N   LYS S   6     255.563 117.973  26.419  1.00 80.39      SS19
ATOM  50138  CA  LYS S   6     256.209 119.230  26.854  1.00 80.39      SS19
ATOM  50139  CB  LYS S   6     255.176 120.251  27.351  1.00 75.90      SS19
ATOM  50140  CG  LYS S   6     254.568 121.111  26.258  1.00 75.90      SS19
ATOM  50141  CD  LYS S   6     253.400 121.937  26.775  1.00 75.90      SS19
ATOM  50142  CE  LYS S   6     252.176 121.073  27.096  1.00 75.90      SS19
ATOM  50143  NZ  LYS S   6     251.018 121.868  27.635  1.00 75.90      SS19
ATOM  50144  C   LYS S   6     257.315 119.109  27.908  1.00 80.39      SS19
ATOM  50145  O   LYS S   6     258.488 118.877  27.592  1.00 80.39      SS19
ATOM  50146  N   LYS S   7     256.923 119.307  29.161  1.00 88.50      SS19
ATOM  50147  CA  LYS S   7     257.827 119.236  30.298  1.00 88.50      SS19
ATOM  50148  CB  LYS S   7     258.308 120.647  30.654  1.00 66.71      SS19
ATOM  50149  CG  LYS S   7     257.185 121.655  30.813  1.00 66.71      SS19
ATOM  50150  CD  LYS S   7     257.579 123.017  30.262  1.00 66.71      SS19
ATOM  50151  CE  LYS S   7     256.394 123.987  30.283  1.00 66.71      SS19
ATOM  50152  NZ  LYS S   7     256.701 125.351  29.742  1.00 66.71      SS19
ATOM  50153  C   LYS S   7     257.069 118.585  31.461  1.00 88.50      SS19
ATOM  50154  O   LYS S   7     256.231 119.211  32.123  1.00 88.50      SS19
ATOM  50155  N   GLY S   8     257.364 117.306  31.674  1.00129.75      SS19
ATOM  50156  CA  GLY S   8     256.721 116.539  32.724  1.00129.75      SS19
ATOM  50157  C   GLY S   8     255.787 115.509  32.118  1.00129.75      SS19
ATOM  50158  O   GLY S   8     254.630 115.821  31.844  1.00129.75      SS19
ATOM  50159  N   VAL S   9     256.280 114.289  31.907  1.00109.24      SS19
ATOM  50160  CA  VAL S   9     255.471 113.223  31.312  1.00109.24      SS19
ATOM  50161  CB  VAL S   9     256.259 111.882  31.230  1.00 64.57      SS19
ATOM  50162  CG1 VAL S   9     256.007 111.029  32.465  1.00 64.57      SS19
ATOM  50163  CG2 VAL S   9     255.861 111.123  29.979  1.00 64.57      SS19
ATOM  50164  C   VAL S   9     254.179 113.007  32.097  1.00109.24      SS19
ATOM  50165  O   VAL S   9     253.767 113.875  32.867  1.00109.24      SS19
ATOM  50166  N   PHE S  10     253.532 111.858  31.914  1.00 59.67      SS19
ATOM  50167  CA  PHE S  10     252.292 111.623  32.632  1.00 59.67      SS19
ATOM  50168  CB  PHE S  10     251.141 112.333  31.916  1.00 75.75      SS19
ATOM  50169  CG  PHE S  10     249.869 112.361  32.709  1.00 75.75      SS19
ATOM  50170  CD1 PHE S  10     249.395 113.550  33.239  1.00 75.75      SS19
ATOM  50171  CD2 PHE S  10     249.160 111.190  32.959  1.00 75.75      SS19
ATOM  50172  CE1 PHE S  10     248.233 113.571  34.010  1.00 75.75      SS19
ATOM  50173  CE2 PHE S  10     248.004 111.201  33.725  1.00 75.75      SS19
ATOM  50174  CZ  PHE S  10     247.539 112.393  34.251  1.00 75.75      SS19
ATOM  50175  C   PHE S  10     251.892 110.172  32.880  1.00 59.67      SS19
ATOM  50176  O   PHE S  10     251.893 109.334  31.971  1.00 59.67      SS19
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ATOM  50177  N   VAL S  11     251.524 109.905  34.130  1.00 91.74      SS19
ATOM  50178  CA  VAL S  11     251.063 108.593  34.560  1.00 91.74      SS19
ATOM  50179  CB  VAL S  11     252.210 107.687  35.029  1.00 79.22      SS19
ATOM  50180  CG1 VAL S  11     251.671 106.304  35.341  1.00 79.22      SS19
ATOM  50181  CG2 VAL S  11     253.273 107.595  33.961  1.00 79.22      SS19
ATOM  50182  C   VAL S  11     250.130 108.800  35.737  1.00 91.74      SS19
ATOM  50183  O   VAL S  11     250.544 109.305  36.781  1.00 91.74      SS19
ATOM  50184  N   ASP S  12     248.866 108.428  35.561  1.00140.13      SS19
ATOM  50185  CA  ASP S  12     247.895 108.562  36.636  1.00140.13      SS19
ATOM  50186  CB  ASP S  12     246.563 107.902  36.253  1.00183.16      SS19
ATOM  50187  CG  ASP S  12     245.871 108.594  35.086  1.00183.16      SS19
ATOM  50188  OD1 ASP S  12     246.457 108.642  33.985  1.00183.16      SS19
ATOM  50189  OD2 ASP S  12     244.736 109.087  35.264  1.00183.16      SS19
ATOM  50190  C   ASP S  12     248.504 107.845  37.833  1.00140.13      SS19
ATOM  50191  O   ASP S  12     248.703 106.630  37.797  1.00140.13      SS19
ATOM  50192  N   ASP S  13     248.815 108.603  38.880  1.00 81.40      SS19
ATOM  50193  CA  ASP S  13     249.414 108.046  40.086  1.00 81.40      SS19
ATOM  50194  CB  ASP S  13     249.186 108.994  41.261  1.00169.37      SS19
ATOM  50195  CG  ASP S  13     247.717 109.233  41.536  1.00169.37      SS19
ATOM  50196  OD1 ASP S  13     247.399 109.960  42.501  1.00169.37      SS19
ATOM  50197  OD2 ASP S  13     246.875 108.695  40.789  1.00169.37      SS19
ATOM  50198  C   ASP S  13     248.891 106.653  40.445  1.00 81.40      SS19
ATOM  50199  O   ASP S  13     249.601 105.869  41.072  1.00 81.40      SS19
ATOM  50200  N   HIS S  14     247.657 106.348  40.044  1.00104.56      SS19
ATOM  50201  CA  HIS S  14     247.029 105.053  40.325  1.00104.56      SS19
ATOM  50202  CB  HIS S  14     245.925 104.740  39.310  1.00168.10      SS19
ATOM  50203  CG  HIS S  14     244.840 105.766  39.253  1.00168.10      SS19
ATOM  50204  CD2 HIS S  14     244.243 106.372  38.200  1.00168.10      SS19
ATOM  50205  ND1 HIS S  14     244.231 106.269  40.382  1.00168.10      SS19
ATOM  50206  CE1 HIS S  14     243.307 107.143  40.027  1.00168.10      SS19
ATOM  50207  NE2 HIS S  14     243.293 107.224  38.708  1.00168.10      SS19
ATOM  50208  C   HIS S  14     248.013 103.897  40.301  1.00104.56      SS19
ATOM  50209  O   HIS S  14     248.579 103.523  41.324  1.00104.56      SS19
ATOM  50210  N   LEU S  15     248.195 103.327  39.116  1.00130.16      SS19
ATOM  50211  CA  LEU S  15     249.097 102.202  38.941  1.00130.16      SS19
ATOM  50212  CB  LEU S  15     248.961 101.629  37.528  1.00 95.14      SS19
ATOM  50213  CG  LEU S  15     248.567 102.569  36.389  1.00 95.14      SS19
ATOM  50214  CD1 LEU S  15     249.408 103.838  36.391  1.00 95.14      SS19
ATOM  50215  CD2 LEU S  15     248.734 101.814  35.091  1.00 95.14      SS19
ATOM  50216  C   LEU S  15     250.553 102.543  39.223  1.00130.16      SS19
ATOM  50217  O   LEU S  15     251.385 101.649  39.336  1.00130.16      SS19
ATOM  50218  N   LEU S  16     250.865 103.830  39.331  1.00 74.88      SS19
ATOM  50219  CA  LEU S  16     252.233 104.231  39.621  1.00 74.88      SS19
ATOM  50220  CB  LEU S  16     252.435 105.725  39.354  1.00104.85      SS19
ATOM  50221  CG  LEU S  16     253.846 106.290  39.567  1.00104.85      SS19
ATOM  50222  CD1 LEU S  16     254.860 105.502  38.751  1.00104.85      SS19
ATOM  50223  CD2 LEU S  16     253.870 107.756  39.164  1.00104.85      SS19
ATOM  50224  C   LEU S  16     252.481 103.925  41.089  1.00 74.88      SS19
ATOM  50225  O   LEU S  16     253.174 102.961  41.422  1.00 74.88      SS19
ATOM  50226  N   GLU S  17     251.904 104.733  41.973  1.00112.15      SS19
ATOM  50227  CA  GLU S  17     252.083 104.499  43.396  1.00112.15      SS19
ATOM  50228  CB  GLU S  17     251.144 105.380  44.226  1.00140.87      SS19
ATOM  50229  CG  GLU S  17     249.681 104.961  44.192  1.00140.87      SS19
ATOM  50230  CD  GLU S  17     248.842 105.668  45.250  1.00140.87      SS19
ATOM  50231  OE1 GLU S  17     247.619 105.406  45.330  1.00140.87      SS19
ATOM  50232  OE2 GLU S  17     249.407 106.487  46.006  1.00140.87      SS19
ATOM  50233  C   GLU S  17     251.767 103.032  43.641  1.00112.15      SS19
ATOM  50234  O   GLU S  17     252.320 102.415  44.547  1.00112.15      SS19
ATOM  50235  N   LYS S  18     250.890 102.478  42.806  1.00 78.76      SS19
ATOM  50236  CA  LYS S  18     250.482 101.079  42.914  1.00 78.76      SS19
ATOM  50237  CB  LYS S  18     249.117 100.863  42.251  1.00201.30      SS19
ATOM  50238  CG  LYS S  18     248.572  99.444  42.410  1.00201.30      SS19
ATOM  50239  CD  LYS S  18     247.379  99.171  41.496  1.00201.30      SS19
ATOM  50240  CE  LYS S  18     246.186 100.062  41.813  1.00201.30      SS19
ATOM  50241  NZ  LYS S  18     245.018  99.761  40.933  1.00201.30      SS19
ATOM  50242  C   LYS S  18     251.485 100.106  42.299  1.00 78.76      SS19
ATOM  50243  O   LYS S  18     251.457  98.915  42.612  1.00 78.76      SS19
ATOM  50244  N   VAL S  19     252.358 100.596  41.421  1.00117.37      SS19
ATOM  50245  CA  VAL S  19     253.351  99.725  40.797  1.00117.37      SS19
ATOM  50246  CB  VAL S  19     253.649 100.121  39.328  1.00117.21      SS19
ATOM  50247  CG1 VAL S  19     254.257 101.511  39.255  1.00117.21      SS19
ATOM  50248  CG2 VAL S  19     254.585  99.104  38.710  1.00117.21      SS19
ATOM  50249  C   VAL S  19     254.656  99.726  41.577  1.00117.37      SS19
ATOM  50250  O   VAL S  19     255.178  98.667  41.913  1.00117.37      SS19
ATOM  50251  N   LEU S  20     255.186 100.910  41.867  1.00155.23      SS19
ATOM  50252  CA  LEU S  20     256.427 101.005  42.626  1.00155.23      SS19
ATOM  50253  CB  LEU S  20     256.887 102.465  42.717  1.00112.31      SS19
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ATOM  50254  CG  LEU S  20     255.814 103.546  42.863  1.00112.31      SS19
ATOM  50255  CD1 LEU S  20     255.070 103.379  44.177  1.00112.31      SS19
ATOM  50256  CD2 LEU S  20     256.473 104.912  42.788  1.00112.31      SS19
ATOM  50257  C   LEU S  20     256.192 100.418  44.012  1.00155.23      SS19
ATOM  50258  O   LEU S  20     257.123 100.235  44.799  1.00155.23      SS19
ATOM  50259  N   GLU S  21     254.925 100.127  44.291  1.00 94.82      SS19
ATOM  50260  CA  GLU S  21     254.510  99.535  45.553  1.00 94.82      SS19
ATOM  50261  CB  GLU S  21     252.991  99.656  45.714  1.00188.15      SS19
ATOM  50262  CG  GLU S  21     252.422  99.000  46.964  1.00188.15      SS19
ATOM  50263  CD  GLU S  21     250.903  99.054  47.008  1.00188.15      SS19
ATOM  50264  OE1 GLU S  21     250.261  98.491  46.093  1.00188.15      SS19
ATOM  50265  OE2 GLU S  21     250.351  99.659  47.954  1.00188.15      SS19
ATOM  50266  C   GLU S  21     254.907  98.071  45.479  1.00 94.82      SS19
ATOM  50267  O   GLU S  21     255.303  97.468  46.472  1.00 94.82      SS19
ATOM  50268  N   LEU S  22     254.794  97.506  44.284  1.00 73.76      SS19
ATOM  50269  CA  LEU S  22     255.150  96.113  44.052  1.00 73.76      SS19
ATOM  50270  CB  LEU S  22     254.489  95.612  42.769  1.00181.70      SS19
ATOM  50271  CG  LEU S  22     253.050  96.096  42.578  1.00181.70      SS19
ATOM  50272  CD1 LEU S  22     252.540  95.657  41.218  1.00181.70      SS19
ATOM  50273  CD2 LEU S  22     252.170  95.563  43.697  1.00181.70      SS19
ATOM  50274  C   LEU S  22     256.660  96.105  43.897  1.00 73.76      SS19
ATOM  50275  O   LEU S  22     257.300  95.053  43.911  1.00 73.76      SS19
ATOM  50276  N   ASN S  23     257.209  97.307  43.738  1.00112.67      SS19
ATOM  50277  CA  ASN S  23     258.643  97.510  43.600  1.00112.67      SS19
ATOM  50278  CB  ASN S  23     258.922  98.865  42.939  1.00 98.51      SS19
ATOM  50279  CG  ASN S  23     258.739  98.831  41.428  1.00 98.51      SS19
ATOM  50280  OD1 ASN S  23     257.913  98.082  40.907  1.00 98.51      SS19
ATOM  50281  ND2 ASN S  23     259.504  99.656  40.720  1.00 98.51      SS19
ATOM  50282  C   ASN S  23     259.236  97.474  45.003  1.00112.67      SS19
ATOM  50283  O   ASN S  23     259.867  98.432  45.458  1.00112.67      SS19
ATOM  50284  N   ALA S  24     259.004  96.356  45.683  1.00131.02      SS19
ATOM  50285  CA  ALA S  24     259.485  96.143  47.040  1.00131.02      SS19
ATOM  50286  CB  ALA S  24     258.673  96.982  48.021  1.00 59.33      SS19
ATOM  50287  C   ALA S  24     259.362  94.661  47.379  1.00131.02      SS19
ATOM  50288  O   ALA S  24     260.253  94.081  47.994  1.00131.02      SS19
ATOM  50289  N   LYS S  25     258.252  94.052  46.977  1.00160.52      SS19
ATOM  50290  CA  LYS S  25     258.033  92.634  47.231  1.00160.52      SS19
ATOM  50291  CB  LYS S  25     256.545  92.337  47.444  1.00184.28      SS19
ATOM  50292  CG  LYS S  25     255.817  93.289  48.386  1.00184.28      SS19
ATOM  50293  CD  LYS S  25     255.454  94.597  47.691  1.00184.28      SS19
ATOM  50294  CE  LYS S  25     254.579  95.479  48.573  1.00184.28      SS19
ATOM  50295  NZ  LYS S  25     255.280  95.911  49.815  1.00184.28      SS19
ATOM  50296  C   LYS S  25     258.526  91.864  46.012  1.00160.52      SS19
ATOM  50297  O   LYS S  25     258.529  90.631  45.991  1.00160.52      SS19
ATOM  50298  N   GLY S  26     258.943  92.612  44.996  1.00201.30      SS19
ATOM  50299  CA  GLY S  26     259.426  92.008  43.771  1.00201.30      SS19
ATOM  50300  C   GLY S  26     258.698  92.593  42.578  1.00201.30      SS19
ATOM  50301  O   GLY S  26     258.869  93.768  42.251  1.00201.30      SS19
ATOM  50302  N   GLU S  27     257.879  91.773  41.929  1.00187.98      SS19
ATOM  50303  CA  GLU S  27     257.116  92.209  40.764  1.00187.98      SS19
ATOM  50304  CB  GLU S  27     257.842  91.806  39.473  1.00201.30      SS19
ATOM  50305  CG  GLU S  27     259.301  92.255  39.374  1.00201.30      SS19
ATOM  50306  CD  GLU S  27     259.461  93.699  38.929  1.00201.30      SS19
ATOM  50307  OE1 GLU S  27     259.035  94.025  37.801  1.00201.30      SS19
ATOM  50308  OE2 GLU S  27     260.018  94.507  39.703  1.00201.30      SS19
ATOM  50309  C   GLU S  27     255.749  91.534  40.806  1.00187.98      SS19
ATOM  50310  O   GLU S  27     255.565  90.472  40.211  1.00187.98      SS19
ATOM  50311  N   LYS S  28     254.793  92.139  41.506  1.00160.55      SS19
ATOM  50312  CA  LYS S  28     253.458  91.554  41.604  1.00160.55      SS19
ATOM  50313  CB  LYS S  28     252.473  92.537  42.244  1.00140.70      SS19
ATOM  50314  CG  LYS S  28     251.070  91.951  42.450  1.00140.70      SS19
ATOM  50315  CD  LYS S  28     250.068  93.001  42.914  1.00140.70      SS19
ATOM  50316  CE  LYS S  28     248.669  92.418  43.054  1.00140.70      SS19
ATOM  50317  NZ  LYS S  28     247.666  93.473  43.370  1.00140.70      SS19
ATOM  50318  C   LYS S  28     252.932  91.128  40.236  1.00160.55      SS19
ATOM  50319  O   LYS S  28     253.360  91.643  39.200  1.00160.55      SS19
ATOM  50320  N   ARG S  29     251.992  90.190  40.245  1.00150.25      SS19
ATOM  50321  CA  ARG S  29     251.411  89.670  39.016  1.00150.25      SS19
ATOM  50322  CB  ARG S  29     251.260  88.150  39.130  1.00201.30      SS19
ATOM  50323  CG  ARG S  29     252.493  87.443  39.685  1.00201.30      SS19
ATOM  50324  CD  ARG S  29     252.232  85.959  39.931  1.00201.30      SS19
ATOM  50325  NE  ARG S  29     253.317  85.325  40.680  1.00201.30      SS19
ATOM  50326  CZ  ARG S  29     253.318  84.053  41.073  1.00201.30      SS19
ATOM  50327  NH1 ARG S  29     252.289  83.264  40.788  1.00201.30      SS19
ATOM  50328  NH2 ARG S  29     254.346  83.571  41.759  1.00201.30      SS19
ATOM  50329  C   ARG S  29     250.055  90.296  38.689  1.00150.25      SS19
ATOM  50330  O   ARG S  29     249.109  90.194  39.468  1.00150.25      SS19
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ATOM  50331  N   LEU S  30     249.977  90.944  37.530  1.00 93.02      SS19
ATOM  50332  CA  LEU S  30     248.747  91.572  37.050  1.00 93.02      SS19
ATOM  50333  CB  LEU S  30     247.594  90.570  37.067  1.00114.35      SS19
ATOM  50334  CG  LEU S  30     247.715  89.416  36.076  1.00114.35      SS19
ATOM  50335  CD1 LEU S  30     246.507  88.506  36.217  1.00114.35      SS19
ATOM  50336  CD2 LEU S  30     247.819  89.963  34.662  1.00114.35      SS19
ATOM  50337  C   LEU S  30     248.311  92.826  37.778  1.00 93.02      SS19
ATOM  50338  O   LEU S  30     248.301  92.888  39.002  1.00 93.02      SS19
ATOM  50339  N   ILE S  31     247.933  93.823  36.994  1.00108.54      SS19
ATOM  50340  CA  ILE S  31     247.484  95.093  37.523  1.00108.54      SS19
ATOM  50341  CB  ILE S  31     248.642  96.107  37.598  1.00 95.80      SS19
ATOM  50342  CG2 ILE S  31     248.126  97.461  38.046  1.00 95.80      SS19
ATOM  50343  CG1 ILE S  31     249.701  95.609  38.577  1.00 95.80      SS19
ATOM  50344  CD1 ILE S  31     249.188  95.434  39.990  1.00 95.80      SS19
ATOM  50345  C   ILE S  31     246.418  95.631  36.587  1.00108.54      SS19
ATOM  50346  O   ILE S  31     246.727  96.232  35.557  1.00108.54      SS19
ATOM  50347  N   LYS S  32     245.160  95.396  36.939  1.00110.82      SS19
ATOM  50348  CA  LYS S  32     244.055  95.873  36.125  1.00110.82      SS19
ATOM  50349  CB  LYS S  32     242.765  95.140  36.503  1.00136.72      SS19
ATOM  50350  CG  LYS S  32     242.420  95.191  37.984  1.00136.72      SS19
ATOM  50351  CD  LYS S  32     241.087  94.505  38.269  1.00136.72      SS19
ATOM  50352  CE  LYS S  32     241.099  93.041  37.841  1.00136.72      SS19
ATOM  50353  NZ  LYS S  32     239.780  92.386  38.068  1.00136.72      SS19
ATOM  50354  C   LYS S  32     243.883  97.373  36.326  1.00110.82      SS19
ATOM  50355  O   LYS S  32     243.737  97.840  37.457  1.00110.82      SS19
ATOM  50356  N   THR S  33     243.918  98.128  35.231  1.00 85.31      SS19
ATOM  50357  CA  THR S  33     243.753  99.573  35.326  1.00 85.31      SS19
ATOM  50358  CB  THR S  33     245.109 100.291  35.360  1.00110.13      SS19
ATOM  50359  OG1 THR S  33     245.924  99.711  36.382  1.00110.13      SS19
ATOM  50360  CG2 THR S  33     244.919 101.769  35.672  1.00110.13      SS19
ATOM  50361  C   THR S  33     242.916 100.173  34.202  1.00 85.31      SS19
ATOM  50362  O   THR S  33     242.861  99.649  33.090  1.00 85.31      SS19
ATOM  50363  N   TRP S  34     242.247 101.274  34.523  1.00103.07      SS19
ATOM  50364  CA  TRP S  34     241.419 101.978  33.564  1.00103.07      SS19
ATOM  50365  CB  TRP S  34     240.153 102.515  34.226  1.00 85.53      SS19
ATOM  50366  CG  TRP S  34     239.070 101.525  34.513  1.00 85.53      SS19
ATOM  50367  CD2 TRP S  34     239.192 100.279  35.208  1.00 85.53      SS19
ATOM  50368  CE2 TRP S  34     237.889  99.757  35.354  1.00 85.53      SS19
ATOM  50369  CE3 TRP S  34     240.272  99.554  35.726  1.00 85.53      SS19
ATOM  50370  CD1 TRP S  34     237.743 101.695  34.267  1.00 85.53      SS19
ATOM  50371  NE1 TRP S  34     237.027 100.644  34.771  1.00 85.53      SS19
ATOM  50372  CZ2 TRP S  34     237.633  98.540  36.001  1.00 85.53      SS19
ATOM  50373  CZ3 TRP S  34     240.021  98.341  36.371  1.00 85.53      SS19
ATOM  50374  CH2 TRP S  34     238.709  97.848  36.501  1.00 85.53      SS19
ATOM  50375  C   TRP S  34     242.223 103.163  33.062  1.00103.07      SS19
ATOM  50376  O   TRP S  34     241.686 104.061  32.409  1.00103.07      SS19
ATOM  50377  N   SER S  35     243.511 103.177  33.372  1.00101.49      SS19
ATOM  50378  CA  SER S  35     244.344 104.292  32.956  1.00101.49      SS19
ATOM  50379  CB  SER S  35     245.272 104.707  34.094  1.00 58.35      SS19
ATOM  50380  OG  SER S  35     246.017 105.860  33.741  1.00 58.35      SS19
ATOM  50381  C   SER S  35     245.166 104.064  31.696  1.00101.49      SS19
ATOM  50382  O   SER S  35     246.347 103.722  31.760  1.00101.49      SS19
ATOM  50383  N   ARG S  36     244.532 104.252  30.546  1.00 42.25      SS19
ATOM  50384  CA  ARG S  36     245.234 104.114  29.284  1.00 42.25      SS19
ATOM  50385  CB  ARG S  36     244.260 103.706  28.160  1.00 56.55      SS19
ATOM  50386  CG  ARG S  36     242.860 104.309  28.266  1.00 56.55      SS19
ATOM  50387  CD  ARG S  36     241.998 103.984  27.061  1.00 56.55      SS19
ATOM  50388  NE  ARG S  36     241.896 102.550  26.806  1.00 56.55      SS19
ATOM  50389  CZ  ARG S  36     242.422 101.934  25.747  1.00 56.55      SS19
ATOM  50390  NH1 ARG S  36     243.097 102.626  24.840  1.00 56.55      SS19
ATOM  50391  NH2 ARG S  36     242.256 100.627  25.577  1.00 56.55      SS19
ATOM  50392  C   ARG S  36     245.855 105.487  29.022  1.00 42.25      SS19
ATOM  50393  O   ARG S  36     246.875 105.608  28.352  1.00 42.25      SS19
ATOM  50394  N   ARG S  37     245.234 106.518  29.587  1.00 60.04      SS19
ATOM  50395  CA  ARG S  37     245.710 107.887  29.443  1.00 60.04      SS19
ATOM  50396  CB  ARG S  37     244.825 108.842  30.253  1.00201.30      SS19
ATOM  50397  CG  ARG S  37     243.455 109.129  29.661  1.00201.30      SS19
ATOM  50398  CD  ARG S  37     243.564 109.989  28.406  1.00201.30      SS19
ATOM  50399  NE  ARG S  37     242.272 110.522  27.978  1.00201.30      SS19
ATOM  50400  CZ  ARG S  37     242.107 111.360  26.957  1.00201.30      SS19
ATOM  50401  NH1 ARG S  37     243.155 111.765  26.252  1.00201.30      SS19
ATOM  50402  NH2 ARG S  37     240.895 111.794  26.640  1.00201.30      SS19
ATOM  50403  C   ARG S  37     247.149 108.032  29.935  1.00 60.04      SS19
ATOM  50404  O   ARG S  37     247.825 109.015  29.614  1.00 60.04      SS19
ATOM  50405  N   SER S  38     247.611 107.047  30.704  1.00 66.90      SS19
ATOM  50406  CA  SER S  38     248.947 107.078  31.299  1.00 66.90      SS19
ATOM  50407  CB  SER S  38     248.921 106.390  32.667  1.00 76.93      SS19
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ATOM  50408  OG  SER S  38     248.618 105.016  32.531  1.00 76.93      SS19
ATOM  50409  C   SER S  38     250.086 106.489  30.489  1.00 66.90      SS19
ATOM  50410  O   SER S  38     249.938 105.461  29.831  1.00 66.90      SS19
ATOM  50411  N   THR S  39     251.236 107.148  30.587  1.00 68.37      SS19
ATOM  50412  CA  THR S  39     252.454 106.744  29.896  1.00 68.37      SS19
ATOM  50413  CB  THR S  39     253.460 107.891  29.853  1.00 37.48      SS19
ATOM  50414  OG1 THR S  39     252.850 109.044  29.260  1.00 37.48      SS19
ATOM  50415  CG2 THR S  39     254.696 107.481  29.065  1.00 37.48      SS19
ATOM  50416  C   THR S  39     253.155 105.588  30.599  1.00 68.37      SS19
ATOM  50417  O   THR S  39     253.106 105.471  31.826  1.00 68.37      SS19
ATOM  50418  N   ILE S  40     253.813 104.732  29.825  1.00 84.47      SS19
ATOM  50419  CA  ILE S  40     254.546 103.629  30.424  1.00 84.47      SS19
ATOM  50420  CB  ILE S  40     254.810 102.476  29.424  1.00 49.70      SS19
ATOM  50421  CG2 ILE S  40     256.003 101.647  29.885  1.00 49.70      SS19
ATOM  50422  CG1 ILE S  40     253.561 101.596  29.310  1.00 49.70      SS19
ATOM  50423  CD1 ILE S  40     253.746 100.328  28.506  1.00 49.70      SS19
ATOM  50424  C   ILE S  40     255.868 104.211  30.880  1.00 84.47      SS19
ATOM  50425  O   ILE S  40     256.436 105.076  30.212  1.00 84.47      SS19
ATOM  50426  N   VAL S  41     256.349 103.749  32.026  1.00 80.92      SS19
ATOM  50427  CA  VAL S  41     257.607 104.242  32.553  1.00 80.92      SS19
ATOM  50428  CB  VAL S  41     257.373 105.126  33.781  1.00 98.74      SS19
ATOM  50429  CG1 VAL S  41     256.628 106.379  33.366  1.00 98.74      SS19
ATOM  50430  CG2 VAL S  41     256.587 104.360  34.830  1.00 98.74      SS19
ATOM  50431  C   VAL S  41     258.551 103.109  32.916  1.00 80.92      SS19
ATOM  50432  O   VAL S  41     258.117 101.991  33.200  1.00 80.92      SS19
ATOM  50433  N   PRO S  42     259.864 103.394  32.911  1.00120.03      SS19
ATOM  50434  CD  PRO S  42     260.401 104.759  32.751  1.00104.77      SS19
ATOM  50435  CA  PRO S  42     260.942 102.452  33.226  1.00120.03      SS19
ATOM  50436  CB  PRO S  42     262.066 103.376  33.669  1.00104.77      SS19
ATOM  50437  CG  PRO S  42     261.897 104.528  32.734  1.00104.77      SS19
ATOM  50438  C   PRO S  42     260.584 101.417  34.288  1.00120.03      SS19
ATOM  50439  O   PRO S  42     260.780 100.217  34.092  1.00120.03      SS19
ATOM  50440  N   GLU S  43     260.060 101.892  35.412  1.00 91.27      SS19
ATOM  50441  CA  GLU S  43     259.672 101.013  36.507  1.00 91.27      SS19
ATOM  50442  CB  GLU S  43     259.085 101.833  37.662  1.00127.57      SS19
ATOM  50443  CG  GLU S  43     258.623 103.223  37.271  1.00127.57      SS19
ATOM  50444  CD  GLU S  43     259.775 104.112  36.845  1.00127.57      SS19
ATOM  50445  OE1 GLU S  43     260.670 104.364  37.679  1.00127.57      SS19
ATOM  50446  OE2 GLU S  43     259.792 104.553  35.677  1.00127.57      SS19
ATOM  50447  C   GLU S  43     258.669  99.953  36.070  1.00 91.27      SS19
ATOM  50448  O   GLU S  43     258.828  98.772  36.387  1.00 91.27      SS19
ATOM  50449  N   MET S  44     257.647 100.378  35.333  1.00 88.91      SS19
ATOM  50450  CA  MET S  44     256.607  99.472  34.866  1.00 88.91      SS19
ATOM  50451  CB  MET S  44     255.610 100.226  33.990  1.00108.37      SS19
ATOM  50452  CG  MET S  44     255.080 101.478  34.647  1.00108.37      SS19
ATOM  50453  SD  MET S  44     253.855 102.339  33.664  1.00108.37      SS19
ATOM  50454  CE  MET S  44     252.368 101.960  34.603  1.00108.37      SS19
ATOM  50455  C   MET S  44     257.168  98.284  34.101  1.00 88.91      SS19
ATOM  50456  O   MET S  44     256.607  97.189  34.155  1.00 88.91      SS19
ATOM  50457  N   VAL S  45     258.278  98.495  33.401  1.00 64.50      SS19
ATOM  50458  CA  VAL S  45     258.891  97.423  32.624  1.00 64.50      SS19
ATOM  50459  CB  VAL S  45     260.334  97.766  32.226  1.00 50.94      SS19
ATOM  50460  CG1 VAL S  45     260.928  96.620  31.415  1.00 50.94      SS19
ATOM  50461  CG2 VAL S  45     260.360  99.058  31.425  1.00 50.94      SS19
ATOM  50462  C   VAL S  45     258.914  96.120  33.406  1.00 64.50      SS19
ATOM  50463  O   VAL S  45     259.116  96.125  34.617  1.00 64.50      SS19
ATOM  50464  N   GLY S  46     258.704  95.008  32.711  1.00 94.65      SS19
ATOM  50465  CA  GLY S  46     258.711  93.715  33.368  1.00 94.65      SS19
ATOM  50466  C   GLY S  46     257.382  93.355  34.006  1.00 94.65      SS19
ATOM  50467  O   GLY S  46     257.070  92.173  34.152  1.00 94.65      SS19
ATOM  50468  N   HIS S  47     256.601  94.367  34.384  1.00109.23      SS19
ATOM  50469  CA  HIS S  47     255.294  94.159  35.015  1.00109.23      SS19
ATOM  50470  CB  HIS S  47     254.796  95.463  35.634  1.00127.62      SS19
ATOM  50471  CG  HIS S  47     255.485  95.832  36.907  1.00127.62      SS19
ATOM  50472  CD2 HIS S  47     256.322  96.852  37.205  1.00127.62      SS19
ATOM  50473  ND1 HIS S  47     255.330  95.110  38.071  1.00127.62      SS19
ATOM  50474  CE1 HIS S  47     256.041  95.673  39.032  1.00127.62      SS19
ATOM  50475  NE2 HIS S  47     256.652  96.732  38.533  1.00127.62      SS19
ATOM  50476  C   HIS S  47     254.233  93.647  34.043  1.00109.23      SS19
ATOM  50477  O   HIS S  47     254.550  93.159  32.958  1.00109.23      SS19
ATOM  50478  N   THR S  48     252.968  93.761  34.443  1.00 84.02      SS19
ATOM  50479  CA  THR S  48     251.862  93.325  33.600  1.00 84.02      SS19
ATOM  50480  CB  THR S  48     251.559  91.842  33.794  1.00 51.53      SS19
ATOM  50481  OG1 THR S  48     252.772  91.090  33.664  1.00 51.53      SS19
ATOM  50482  CG2 THR S  48     250.565  91.367  32.747  1.00 51.53      SS19
ATOM  50483  C   THR S  48     250.585  94.111  33.862  1.00 84.02      SS19
ATOM  50484  O   THR S  48     249.586  93.563  34.329  1.00 84.02      SS19
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ATOM  50485  N   ILE S  49     250.633  95.404  33.560  1.00 62.32      SS19
ATOM  50486  CA  ILE S  49     249.486  96.280  33.729  1.00 62.32      SS19
ATOM  50487  CB  ILE S  49     249.855  97.738  33.442  1.00 93.21      SS19
ATOM  50488  CG2 ILE S  49     248.626  98.615  33.578  1.00 93.21      SS19
ATOM  50489  CG1 ILE S  49     250.992  98.186  34.361  1.00 93.21      SS19
ATOM  50490  CD1 ILE S  49     252.367  97.680  33.942  1.00 93.21      SS19
ATOM  50491  C   ILE S  49     248.443  95.871  32.701  1.00 62.32      SS19
ATOM  50492  O   ILE S  49     248.762  95.741  31.522  1.00 62.32      SS19
ATOM  50493  N   ALA S  50     247.204  95.662  33.133  1.00 85.22      SS19
ATOM  50494  CA  ALA S  50     246.147  95.285  32.201  1.00 85.22      SS19
ATOM  50495  CB  ALA S  50     245.293  94.197  32.795  1.00 26.56      SS19
ATOM  50496  C   ALA S  50     245.300  96.513  31.899  1.00 85.22      SS19
ATOM  50497  O   ALA S  50     244.982  97.286  32.809  1.00 85.22      SS19
ATOM  50498  N   VAL S  51     244.943  96.696  30.627  1.00 57.08      SS19
ATOM  50499  CA  VAL S  51     244.139  97.851  30.231  1.00 57.08      SS19
ATOM  50500  CB  VAL S  51     244.837  98.685  29.145  1.00110.18      SS19
ATOM  50501  CG1 VAL S  51     244.074  99.989  28.928  1.00110.18      SS19
ATOM  50502  CG2 VAL S  51     246.273  98.971  29.553  1.00110.18      SS19
ATOM  50503  C   VAL S  51     242.732  97.508  29.746  1.00 57.08      SS19
ATOM  50504  O   VAL S  51     242.489  96.459  29.151  1.00 57.08      SS19
ATOM  50505  N   TYR S  52     241.813  98.427  30.016  1.00 85.99      SS19
ATOM  50506  CA  TYR S  52     240.408  98.286  29.667  1.00 85.99      SS19
ATOM  50507  CB  TYR S  52     239.586  99.125  30.657  1.00 63.83      SS19
ATOM  50508  CG  TYR S  52     238.117  98.779  30.767  1.00 63.83      SS19
ATOM  50509  CD1 TYR S  52     237.701  97.469  31.007  1.00 63.83      SS19
ATOM  50510  CE1 TYR S  52     236.355  97.153  31.129  1.00 63.83      SS19
ATOM  50511  CD2 TYR S  52     237.139  99.770  30.653  1.00 63.83      SS19
ATOM  50512  CE2 TYR S  52     235.789  99.463  30.774  1.00 63.83      SS19
ATOM  50513  CZ  TYR S  52     235.405  98.152  31.010  1.00 63.83      SS19
ATOM  50514  OH  TYR S  52     234.072  97.840  31.111  1.00 63.83      SS19
ATOM  50515  C   TYR S  52     240.173  98.752  28.230  1.00 85.99      SS19
ATOM  50516  O   TYR S  52     240.631  99.824  27.843  1.00 85.99      SS19
ATOM  50517  N   ASN S  53     239.476  97.937  27.439  1.00 71.76      SS19
ATOM  50518  CA  ASN S  53     239.170  98.280  26.051  1.00 71.76      SS19
ATOM  50519  CB  ASN S  53     238.698  97.055  25.281  1.00 82.82      SS19
ATOM  50520  CG  ASN S  53     239.685  95.931  25.316  1.00 82.82      SS19
ATOM  50521  OD1 ASN S  53     239.447  94.868  24.744  1.00 82.82      SS19
ATOM  50522  ND2 ASN S  53     240.807  96.149  25.987  1.00 82.82      SS19
ATOM  50523  C   ASN S  53     238.016  99.249  26.102  1.00 71.76      SS19
ATOM  50524  O   ASN S  53     237.845 100.108  25.236  1.00 71.76      SS19
ATOM  50525  N   GLY S  54     237.226  99.079  27.152  1.00 55.32      SS19
ATOM  50526  CA  GLY S  54     236.038  99.874  27.370  1.00 55.32      SS19
ATOM  50527  C   GLY S  54     235.048  98.763  27.596  1.00 55.32      SS19
ATOM  50528  O   GLY S  54     233.863  98.981  27.827  1.00 55.32      SS19
ATOM  50529  N   LYS S  55     235.583  97.547  27.529  1.00 54.66      SS19
ATOM  50530  CA  LYS S  55     234.803  96.337  27.706  1.00 54.66      SS19
ATOM  50531  CB  LYS S  55     234.501  95.713  26.342  1.00111.19      SS19
ATOM  50532  CG  LYS S  55     233.605  94.496  26.410  1.00111.19      SS19
ATOM  50533  CD  LYS S  55     233.340  93.917  25.033  1.00111.19      SS19
ATOM  50534  CE  LYS S  55     232.397  92.728  25.125  1.00111.19      SS19
ATOM  50535  NZ  LYS S  55     232.137  92.114  23.797  1.00111.19      SS19
ATOM  50536  C   LYS S  55     235.535  95.327  28.585  1.00 54.66      SS19
ATOM  50537  O   LYS S  55     235.029  94.936  29.635  1.00 54.66      SS19
ATOM  50538  N   GLN S  56     236.722  94.903  28.158  1.00 74.08      SS19
ATOM  50539  CA  GLN S  56     237.492  93.926  28.925  1.00 74.08      SS19
ATOM  50540  CB  GLN S  56     237.687  92.642  28.118  1.00130.80      SS19
ATOM  50541  CG  GLN S  56     236.390  91.961  27.744  1.00130.80      SS19
ATOM  50542  CD  GLN S  56     235.354  92.054  28.851  1.00130.80      SS19
ATOM  50543  OE1 GLN S  56     235.657  91.814  30.020  1.00130.80      SS19
ATOM  50544  NE2 GLN S  56     234.123  92.400  28.486  1.00130.80      SS19
ATOM  50545  C   GLN S  56     238.846  94.460  29.350  1.00 74.08      SS19
ATOM  50546  O   GLN S  56     239.144  95.637  29.168  1.00 74.08      SS19
ATOM  50547  N   HIS S  57     239.663  93.585  29.926  1.00108.38      SS19
ATOM  50548  CA  HIS S  57     240.993  93.968  30.379  1.00108.38      SS19
ATOM  50549  CB  HIS S  57     241.159  93.674  31.867  1.00 95.52      SS19
ATOM  50550  CG  HIS S  57     240.302  94.525  32.746  1.00 95.52      SS19
ATOM  50551  CD2 HIS S  57     239.303  94.201  33.601  1.00 95.52      SS19
ATOM  50552  ND1 HIS S  57     240.429  95.896  32.802  1.00 95.52      SS19
ATOM  50553  CE1 HIS S  57     239.544  96.381  33.654  1.00 95.52      SS19
ATOM  50554  NE2 HIS S  57     238.849  95.374  34.152  1.00 95.52      SS19
ATOM  50555  C   HIS S  57     242.065  93.221  29.614  1.00108.38      SS19
ATOM  50556  O   HIS S  57     242.298  92.035  29.854  1.00108.38      SS19
ATOM  50557  N   VAL S  58     242.709  93.913  28.683  1.00 58.04      SS19
ATOM  50558  CA  VAL S  58     243.775  93.299  27.911  1.00 58.04      SS19
ATOM  50559  CB  VAL S  58     244.038  94.061  26.596  1.00184.11      SS19
ATOM  50560  CG1 VAL S  58     242.902  93.823  25.621  1.00184.11      SS19
ATOM  50561  CG2 VAL S  58     244.178  95.544  26.877  1.00184.11      SS19
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ATOM  50562  C   VAL S  58     245.042  93.311  28.757  1.00 58.04      SS19
ATOM  50563  O   VAL S  58     245.557  94.373  29.113  1.00 58.04      SS19
ATOM  50564  N   PRO S  59     245.540  92.125  29.125  1.00 70.23      SS19
ATOM  50565  CD  PRO S  59     244.994  90.789  28.843  1.00 54.54      SS19
ATOM  50566  CA  PRO S  59     246.754  92.025  29.931  1.00 70.23      SS19
ATOM  50567  CB  PRO S  59     246.736  90.569  30.374  1.00 54.54      SS19
ATOM  50568  CG  PRO S  59     246.159  89.886  29.193  1.00 54.54      SS19
ATOM  50569  C   PRO S  59     247.951  92.369  29.043  1.00 70.23      SS19
ATOM  50570  O   PRO S  59     248.093  91.833  27.942  1.00 70.23      SS19
ATOM  50571  N   VAL S  60     248.811  93.260  29.518  1.00110.36      SS19
ATOM  50572  CA  VAL S  60     249.955  93.674  28.723  1.00110.36      SS19
ATOM  50573  CB  VAL S  60     249.834  95.166  28.358  1.00 69.85      SS19
ATOM  50574  CG1 VAL S  60     250.649  95.467  27.117  1.00 69.85      SS19
ATOM  50575  CG2 VAL S  60     248.380  95.536  28.150  1.00 69.85      SS19
ATOM  50576  C   VAL S  60     251.289  93.463  29.434  1.00110.36      SS19
ATOM  50577  O   VAL S  60     251.472  93.912  30.564  1.00110.36      SS19
ATOM  50578  N   TYR S  61     252.217  92.774  28.776  1.00143.93      SS19
ATOM  50579  CA  TYR S  61     253.538  92.548  29.353  1.00143.93      SS19
ATOM  50580  CB  TYR S  61     254.108  91.193  28.918  1.00120.28      SS19
ATOM  50581  CG  TYR S  61     255.433  90.825  29.568  1.00120.28      SS19
ATOM  50582  CD1 TYR S  61     255.869  89.499  29.594  1.00120.28      SS19
ATOM  50583  CE1 TYR S  61     257.080  89.144  30.198  1.00120.28      SS19
ATOM  50584  CD2 TYR S  61     256.248  91.793  30.162  1.00120.28      SS19
ATOM  50585  CE2 TYR S  61     257.459  91.449  30.767  1.00120.28      SS19
ATOM  50586  CZ  TYR S  61     257.867  90.123  30.783  1.00120.28      SS19
ATOM  50587  OH  TYR S  61     259.050  89.771  31.391  1.00120.28      SS19
ATOM  50588  C   TYR S  61     254.422  93.672  28.844  1.00143.93      SS19
ATOM  50589  O   TYR S  61     254.887  93.645  27.704  1.00143.93      SS19
ATOM  50590  N   ILE S  62     254.642  94.662  29.700  1.00 76.06      SS19
ATOM  50591  CA  ILE S  62     255.450  95.820  29.350  1.00 76.06      SS19
ATOM  50592  CB  ILE S  62     255.231  96.943  30.375  1.00 67.04      SS19
ATOM  50593  CG2 ILE S  62     255.324  96.374  31.762  1.00 67.04      SS19
ATOM  50594  CG1 ILE S  62     256.262  98.055  30.181  1.00 67.04      SS19
ATOM  50595  CD1 ILE S  62     256.297  98.636  28.791  1.00 67.04      SS19
ATOM  50596  C   ILE S  62     256.944  95.507  29.236  1.00 76.06      SS19
ATOM  50597  O   ILE S  62     257.511  94.826  30.089  1.00 76.06      SS19
ATOM  50598  N   THR S  63     257.563  96.012  28.167  1.00101.33      SS19
ATOM  50599  CA  THR S  63     258.984  95.808  27.897  1.00101.33      SS19
ATOM  50600  CB  THR S  63     259.192  94.959  26.642  1.00 83.37      SS19
ATOM  50601  OG1 THR S  63     258.480  93.727  26.780  1.00 83.37      SS19
ATOM  50602  CG2 THR S  63     260.666  94.655  26.448  1.00 83.37      SS19
ATOM  50603  C   THR S  63     259.695  97.137  27.682  1.00101.33      SS19
ATOM  50604  O   THR S  63     259.081  98.119  27.270  1.00101.33      SS19
ATOM  50605  N   GLU S  64     260.996  97.156  27.948  1.00112.54      SS19
ATOM  50606  CA  GLU S  64     261.797  98.368  27.802  1.00112.54      SS19
ATOM  50607  CB  GLU S  64     263.284  98.038  27.968  1.00133.98      SS19
ATOM  50608  CG  GLU S  64     264.184  99.262  28.122  1.00133.98      SS19
ATOM  50609  CD  GLU S  64     263.994  99.983  29.451  1.00133.98      SS19
ATOM  50610  OE1 GLU S  64     264.297  99.384  30.504  1.00133.98      SS19
ATOM  50611  OE2 GLU S  64     263.544 101.149  29.443  1.00133.98      SS19
ATOM  50612  C   GLU S  64     261.573  99.064  26.463  1.00112.54      SS19
ATOM  50613  O   GLU S  64     261.252 100.250  26.419  1.00112.54      SS19
ATOM  50614  N   ASN S  65     261.741  98.323  25.374  1.00 84.16      SS19
ATOM  50615  CA  ASN S  65     261.565  98.879  24.037  1.00 84.16      SS19
ATOM  50616  CB  ASN S  65     261.546  97.754  22.997  1.00120.34      SS19
ATOM  50617  CG  ASN S  65     260.563  96.653  23.344  1.00120.34      SS19
ATOM  50618  OD1 ASN S  65     259.466  96.915  23.836  1.00120.34      SS19
ATOM  50619  ND2 ASN S  65     260.948  95.411  23.075  1.00120.34      SS19
ATOM  50620  C   ASN S  65     260.301  99.728  23.880  1.00 84.16      SS19
ATOM  50621  O   ASN S  65     260.279 100.686  23.102  1.00 84.16      SS19
ATOM  50622  N   MET S  66     259.256  99.379  24.623  1.00 87.50      SS19
ATOM  50623  CA  MET S  66     257.985 100.092  24.543  1.00 87.50      SS19
ATOM  50624  CB  MET S  66     256.838  99.083  24.405  1.00 81.38      SS19
ATOM  50625  CG  MET S  66     256.837  98.019  25.498  1.00 81.38      SS19
ATOM  50626  SD  MET S  66     255.304  97.074  25.640  1.00 81.38      SS19
ATOM  50627  CE  MET S  66     255.806  95.435  25.019  1.00 81.38      SS19
ATOM  50628  C   MET S  66     257.709 100.992  25.742  1.00 87.50      SS19
ATOM  50629  O   MET S  66     256.642 100.906  26.338  1.00 87.50      SS19
ATOM  50630  N   VAL S  67     258.647 101.861  26.097  1.00 94.79      SS19
ATOM  50631  CA  VAL S  67     258.427 102.731  27.245  1.00 94.79      SS19
ATOM  50632  CB  VAL S  67     259.761 103.203  27.867  1.00 91.83      SS19
ATOM  50633  CG1 VAL S  67     259.516 104.335  28.861  1.00 91.83      SS19
ATOM  50634  CG2 VAL S  67     260.423 102.037  28.584  1.00 91.83      SS19
ATOM  50635  C   VAL S  67     257.557 103.946  26.955  1.00 94.79      SS19
ATOM  50636  O   VAL S  67     256.370 103.949  27.278  1.00 94.79      SS19
ATOM  50637  N   GLY S  68     258.143 104.974  26.351  1.00 76.78      SS19
ATOM  50638  CA  GLY S  68     257.401 106.192  26.050  1.00 76.78      SS19
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ATOM  50639  C   GLY S  68     255.933 106.084  25.644  1.00 76.78      SS19
ATOM  50640  O   GLY S  68     255.173 107.044  25.811  1.00 76.78      SS19
ATOM  50641  N   HIS S  69     255.530 104.931  25.111  1.00 68.33      SS19
ATOM  50642  CA  HIS S  69     254.151 104.721  24.675  1.00 68.33      SS19
ATOM  50643  CB  HIS S  69     254.005 103.338  24.031  1.00102.38      SS19
ATOM  50644  CG  HIS S  69     254.871 103.142  22.821  1.00102.38      SS19
ATOM  50645  CD2 HIS S  69     255.727 102.147  22.488  1.00102.38      SS19
ATOM  50646  ND1 HIS S  69     254.913 104.045  21.779  1.00102.38      SS19
ATOM  50647  CE1 HIS S  69     255.758 103.615  20.859  1.00102.38      SS19
ATOM  50648  NE2 HIS S  69     256.265 102.465  21.265  1.00102.38      SS19
ATOM  50649  C   HIS S  69     253.181 104.882  25.837  1.00 68.33      SS19
ATOM  50650  O   HIS S  69     253.609 105.099  26.968  1.00 68.33      SS19
ATOM  50651  N   LYS S  70     251.881 104.769  25.570  1.00101.88      SS19
ATOM  50652  CA  LYS S  70     250.895 104.956  26.631  1.00101.88      SS19
ATOM  50653  CB  LYS S  70     250.148 106.273  26.408  1.00 57.14      SS19
ATOM  50654  CG  LYS S  70     251.031 107.487  26.286  1.00 57.14      SS19
ATOM  50655  CD  LYS S  70     250.169 108.726  26.186  1.00 57.14      SS19
ATOM  50656  CE  LYS S  70     250.975 109.980  25.828  1.00 57.14      SS19
ATOM  50657  NZ  LYS S  70     251.891 110.498  26.906  1.00 57.14      SS19
ATOM  50658  C   LYS S  70     249.866 103.845  26.877  1.00101.88      SS19
ATOM  50659  O   LYS S  70     248.671 104.052  26.675  1.00101.88      SS19
ATOM  50660  N   LEU S  71     250.330 102.684  27.332  1.00102.61      SS19
ATOM  50661  CA  LEU S  71     249.457 101.549  27.646  1.00102.61      SS19
ATOM  50662  CB  LEU S  71     248.825 101.752  29.017  1.00 44.11      SS19
ATOM  50663  CG  LEU S  71     249.763 101.828  30.219  1.00 44.11      SS19
ATOM  50664  CD1 LEU S  71     249.031 102.493  31.356  1.00 44.11      SS19
ATOM  50665  CD2 LEU S  71     250.246 100.440  30.609  1.00 44.11      SS19
ATOM  50666  C   LEU S  71     248.348 101.289  26.638  1.00102.61      SS19
ATOM  50667  O   LEU S  71     248.431 100.355  25.844  1.00102.61      SS19
ATOM  50668  N   GLY S  72     247.299 102.106  26.698  1.00 77.05      SS19
ATOM  50669  CA  GLY S  72     246.179 101.962  25.782  1.00 77.05      SS19
ATOM  50670  C   GLY S  72     246.578 101.673  24.343  1.00 77.05      SS19
ATOM  50671  O   GLY S  72     245.794 101.116  23.570  1.00 77.05      SS19
ATOM  50672  N   GLU S  73     247.796 102.057  23.976  1.00 60.77      SS19
ATOM  50673  CA  GLU S  73     248.278 101.816  22.633  1.00 60.77      SS19
ATOM  50674  CB  GLU S  73     249.631 102.488  22.412  1.00148.51      SS19
ATOM  50675  CG  GLU S  73     249.607 103.992  22.548  1.00148.51      SS19
ATOM  50676  CD  GLU S  73     250.906 104.630  22.102  1.00148.51      SS19
ATOM  50677  OE1 GLU S  73     251.223 104.554  20.896  1.00148.51      SS19
ATOM  50678  OE2 GLU S  73     251.614 105.202  22.957  1.00148.51      SS19
ATOM  50679  C   GLU S  73     248.420 100.319  22.451  1.00 60.77      SS19
ATOM  50680  O   GLU S  73     248.691  99.841  21.355  1.00 60.77      SS19
ATOM  50681  N   PHE S  74     248.236  99.577  23.532  1.00 59.82      SS19
ATOM  50682  CA  PHE S  74     248.351  98.127  23.475  1.00 59.82      SS19
ATOM  50683  CB  PHE S  74     249.435  97.646  24.447  1.00 75.19      SS19
ATOM  50684  CG  PHE S  74     250.780  98.265  24.198  1.00 75.19      SS19
ATOM  50685  CD1 PHE S  74     250.984  99.626  24.416  1.00 75.19      SS19
ATOM  50686  CD2 PHE S  74     251.829  97.501  23.700  1.00 75.19      SS19
ATOM  50687  CE1 PHE S  74     252.213 100.219  24.139  1.00 75.19      SS19
ATOM  50688  CE2 PHE S  74     253.067  98.083  23.416  1.00 75.19      SS19
ATOM  50689  CZ  PHE S  74     253.260  99.446  23.636  1.00 75.19      SS19
ATOM  50690  C   PHE S  74     247.011  97.494  23.812  1.00 59.82      SS19
ATOM  50691  O   PHE S  74     246.869  96.266  23.838  1.00 59.82      SS19
ATOM  50692  N   ALA S  75     246.033  98.354  24.067  1.00 63.47      SS19
ATOM  50693  CA  ALA S  75     244.686  97.920  24.400  1.00 63.47      SS19
ATOM  50694  CB  ALA S  75     244.216  98.597  25.675  1.00117.37      SS19
ATOM  50695  C   ALA S  75     243.777  98.292  23.245  1.00 63.47      SS19
ATOM  50696  O   ALA S  75     243.070  99.308  23.293  1.00 63.47      SS19
ATOM  50697  N   PRO S  76     243.791  97.471  22.184  1.00 98.74      SS19
ATOM  50698  CD  PRO S  76     244.343  96.105  22.184  1.00 91.97      SS19
ATOM  50699  CA  PRO S  76     242.971  97.698  20.994  1.00 98.74      SS19
ATOM  50700  CB  PRO S  76     243.170  96.415  20.197  1.00 91.97      SS19
ATOM  50701  CG  PRO S  76     243.390  95.385  21.277  1.00 91.97      SS19
ATOM  50702  C   PRO S  76     241.522  97.926  21.411  1.00 98.74      SS19
ATOM  50703  O   PRO S  76     240.936  97.109  22.119  1.00 98.74      SS19
ATOM  50704  N   THR S  77     240.950  99.040  20.970  1.00 50.12      SS19
ATOM  50705  CA  THR S  77     239.587  99.378  21.334  1.00 50.12      SS19
ATOM  50706  CB  THR S  77     239.431 100.906  21.443  1.00 45.43      SS19
ATOM  50707  OG1 THR S  77     239.007 101.235  22.767  1.00 45.43      SS19
ATOM  50708  CG2 THR S  77     238.409 101.426  20.463  1.00 45.43      SS19
ATOM  50709  C   THR S  77     238.477  98.824  20.441  1.00 50.12      SS19
ATOM  50710  O   THR S  77     237.380  98.545  20.919  1.00 50.12      SS19
ATOM  50711  N   ARG S  78     238.741  98.658  19.152  1.00 85.28      SS19
ATOM  50712  CA  ARG S  78     237.703  98.154  18.267  1.00 85.28      SS19
ATOM  50713  CB  ARG S  78     237.511  99.109  17.106  1.00 59.58      SS19
ATOM  50714  CG  ARG S  78     237.228 100.485  17.584  1.00 59.58      SS19
ATOM  50715  CD  ARG S  78     237.079 101.461  16.475  1.00 59.58      SS19
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ATOM  50716  NE  ARG S  78     237.233 102.801  17.013  1.00 59.58      SS19
ATOM  50717  CZ  ARG S  78     237.076 103.908  16.306  1.00 59.58      SS19
ATOM  50718  NH1 ARG S  78     236.753 103.824  15.021  1.00 59.58      SS19
ATOM  50719  NH2 ARG S  78     237.253 105.094  16.881  1.00 59.58      SS19
ATOM  50720  C   ARG S  78     237.963  96.770  17.730  1.00 85.28      SS19
ATOM  50721  O   ARG S  78     239.099  96.295  17.717  1.00 85.28      SS19
ATOM  50722  N   THR S  79     236.889  96.129  17.286  1.00 63.42      SS19
ATOM  50723  CA  THR S  79     236.958  94.793  16.714  1.00 63.42      SS19
ATOM  50724  CB  THR S  79     236.002  93.842  17.456  1.00 90.62      SS19
ATOM  50725  OG1 THR S  79     236.409  93.731  18.827  1.00 90.62      SS19
ATOM  50726  CG2 THR S  79     236.022  92.473  16.825  1.00 90.62      SS19
ATOM  50727  C   THR S  79     236.544  94.946  15.251  1.00 63.42      SS19
ATOM  50728  O   THR S  79     235.485  95.506  14.959  1.00 63.42      SS19
ATOM  50729  N   TYR S  80     237.386  94.475  14.333  1.00 84.72      SS19
ATOM  50730  CA  TYR S  80     237.099  94.601  12.906  1.00 84.72      SS19
ATOM  50731  CB  TYR S  80     237.810  95.834  12.351  1.00 98.98      SS19
ATOM  50732  CG  TYR S  80     237.847  95.873  10.847  1.00 98.98      SS19
ATOM  50733  CD1 TYR S  80     236.697  96.123  10.112  1.00 98.98      SS19
ATOM  50734  CE1 TYR S  80     236.718  96.119   8.724  1.00 98.98      SS19
ATOM  50735  CD2 TYR S  80     239.029  95.621  10.155  1.00 98.98      SS19
ATOM  50736  CE2 TYR S  80     239.062  95.615   8.769  1.00 98.98      SS19
ATOM  50737  CZ  TYR S  80     237.902  95.864   8.059  1.00 98.98      SS19
ATOM  50738  OH  TYR S  80     237.920  95.843   6.684  1.00 98.98      SS19
ATOM  50739  C   TYR S  80     237.491  93.373  12.077  1.00 84.72      SS19
ATOM  50740  O   TYR S  80     238.373  92.605  12.476  1.00 84.72      SS19
ATOM  50741  N   ARG S  81     236.838  93.213  10.920  1.00 80.06      SS19
ATOM  50742  CA  ARG S  81     237.083  92.091  10.012  1.00 80.06      SS19
ATOM  50743  CB  ARG S  81     238.166  92.447   8.990  1.00167.03      SS19
ATOM  50744  CG  ARG S  81     238.543  91.306   8.044  1.00167.03      SS19
ATOM  50745  CD  ARG S  81     239.937  90.747   8.351  1.00167.03      SS19
ATOM  50746  NE  ARG S  81     240.304  89.629   7.481  1.00167.03      SS19
ATOM  50747  CZ  ARG S  81     241.451  88.956   7.559  1.00167.03      SS19
ATOM  50748  NH1 ARG S  81     242.359  89.283   8.470  1.00167.03      SS19
ATOM  50749  NH2 ARG S  81     241.693  87.952   6.725  1.00167.03      SS19
ATOM  50750  C   ARG S  81     237.507  90.873  10.812  1.00 80.06      SS19
ATOM  50751  O   ARG S  81     238.723  90.600  10.857  1.00 80.06      SS19
ATOM  50752  OXT ARG S  81     236.622  90.230  11.414  1.00167.03      SS19
TER   50752       ARG S  81                                             SS19
ATOM  50753  CB  ARG T   8     132.233  43.557   9.436  1.00123.47      TS20
ATOM  50754  CG  ARG T   8     133.693  43.111   9.500  1.00123.47      TS20
ATOM  50755  CD  ARG T   8     133.792  41.605   9.708  1.00123.47      TS20
ATOM  50756  NE  ARG T   8     135.170  41.147   9.866  1.00123.47      TS20
ATOM  50757  CZ  ARG T   8     135.512  39.920  10.254  1.00123.47      TS20
ATOM  50758  NH1 ARG T   8     134.575  39.020  10.524  1.00123.47      TS20
ATOM  50759  NH2 ARG T   8     136.792  39.591  10.382  1.00123.47      TS20
ATOM  50760  C   ARG T   8     129.986  43.535  10.559  1.00 82.07      TS20
ATOM  50761  O   ARG T   8     129.218  43.994  11.399  1.00 82.07      TS20
ATOM  50762  N   ARG T   8     131.890  42.374  11.586  1.00 82.07      TS20
ATOM  50763  CA  ARG T   8     131.500  43.567  10.784  1.00 82.07      TS20
ATOM  50764  N   ASN T   9     129.572  42.988   9.421  1.00 76.51      TS20
ATOM  50765  CA  ASN T   9     128.161  42.857   9.054  1.00 76.51      TS20
ATOM  50766  CB  ASN T   9     127.567  41.597   9.687  1.00147.55      TS20
ATOM  50767  CG  ASN T   9     127.916  40.341   8.922  1.00147.55      TS20
ATOM  50768  OD1 ASN T   9     127.741  40.274   7.703  1.00147.55      TS20
ATOM  50769  ND2 ASN T   9     128.403  39.332   9.632  1.00147.55      TS20
ATOM  50770  C   ASN T   9     127.206  44.014   9.322  1.00 76.51      TS20
ATOM  50771  O   ASN T   9     126.736  44.203  10.445  1.00 76.51      TS20
ATOM  50772  N   LEU T  10     126.911  44.778   8.276  1.00 57.84      TS20
ATOM  50773  CA  LEU T  10     125.965  45.881   8.377  1.00 57.84      TS20
ATOM  50774  CB  LEU T  10     126.296  46.972   7.356  1.00138.65      TS20
ATOM  50775  CG  LEU T  10     125.595  48.334   7.452  1.00138.65      TS20
ATOM  50776  CD1 LEU T  10     124.080  48.160   7.563  1.00138.65      TS20
ATOM  50777  CD2 LEU T  10     126.142  49.085   8.656  1.00138.65      TS20
ATOM  50778  C   LEU T  10     124.689  45.168   7.970  1.00 57.84      TS20
ATOM  50779  O   LEU T  10     124.313  45.192   6.804  1.00 57.84      TS20
ATOM  50780  N   SER T  11     124.030  44.536   8.937  1.00 44.83      TS20
ATOM  50781  CA  SER T  11     122.830  43.742   8.675  1.00 44.83      TS20
ATOM  50782  CB  SER T  11     122.081  43.456   9.980  1.00 43.82      TS20
ATOM  50783  OG  SER T  11     121.528  42.148   9.934  1.00 43.82      TS20
ATOM  50784  C   SER T  11     121.858  44.201   7.589  1.00 44.83      TS20
ATOM  50785  O   SER T  11     120.882  43.513   7.305  1.00 44.83      TS20
ATOM  50786  N   ALA T  12     122.110  45.355   6.991  1.00 25.47      TS20
ATOM  50787  CA  ALA T  12     121.284  45.802   5.881  1.00 25.47      TS20
ATOM  50788  CB  ALA T  12     120.936  47.270   6.035  1.00 26.95      TS20
ATOM  50789  C   ALA T  12     122.049  45.509   4.536  1.00 25.47      TS20
ATOM  50790  O   ALA T  12     122.437  46.388   3.754  1.00 25.47      TS20
ATOM  50791  N   LEU T  13     122.316  44.222   4.335  1.00 58.43      TS20
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ATOM  50792  CA  LEU T  13     122.939  43.711   3.122  1.00 58.43      TS20
ATOM  50793  CB  LEU T  13     123.895  42.559   3.429  1.00 35.93      TS20
ATOM  50794  CG  LEU T  13     124.645  42.621   4.763  1.00 35.93      TS20
ATOM  50795  CD1 LEU T  13     123.663  42.265   5.857  1.00 35.93      TS20
ATOM  50796  CD2 LEU T  13     125.840  41.659   4.801  1.00 35.93      TS20
ATOM  50797  C   LEU T  13     121.638  43.157   2.585  1.00 58.43      TS20
ATOM  50798  O   LEU T  13     121.489  42.790   1.425  1.00 58.43      TS20
ATOM  50799  N   LYS T  14     120.694  43.104   3.512  1.00 31.45      TS20
ATOM  50800  CA  LYS T  14     119.350  42.652   3.265  1.00 31.45      TS20
ATOM  50801  CB  LYS T  14     118.458  43.029   4.448  1.00 25.56      TS20
ATOM  50802  CG  LYS T  14     117.003  42.631   4.289  1.00 25.56      TS20
ATOM  50803  CD  LYS T  14     116.185  43.059   5.493  1.00 25.56      TS20
ATOM  50804  CE  LYS T  14     114.727  42.649   5.345  1.00 25.56      TS20
ATOM  50805  NZ  LYS T  14     113.898  43.081   6.507  1.00 25.56      TS20
ATOM  50806  C   LYS T  14     118.889  43.385   2.035  1.00 31.45      TS20
ATOM  50807  O   LYS T  14     118.326  42.793   1.112  1.00 31.45      TS20
ATOM  50808  N   ARG T  15     119.144  44.689   2.034  1.00 43.17      TS20
ATOM  50809  CA  ARG T  15     118.744  45.523   0.918  1.00 43.17      TS20
ATOM  50810  CB  ARG T  15     119.233  46.946   1.118  1.00 42.45      TS20
ATOM  50811  CG  ARG T  15     118.245  47.830   1.866  1.00 42.45      TS20
ATOM  50812  CD  ARG T  15     117.068  48.251   0.996  1.00 42.45      TS20
ATOM  50813  NE  ARG T  15     116.338  49.351   1.619  1.00 42.45      TS20
ATOM  50814  CZ  ARG T  15     115.240  49.903   1.115  1.00 42.45      TS20
ATOM  50815  NH1 ARG T  15     114.729  49.460  -0.030  1.00 42.45      TS20
ATOM  50816  NH2 ARG T  15     114.644  50.895   1.757  1.00 42.45      TS20
ATOM  50817  C   ARG T  15     119.300  44.952  -0.359  1.00 43.17      TS20
ATOM  50818  O   ARG T  15     118.616  44.906  -1.387  1.00 43.17      TS20
ATOM  50819  N   HIS T  16     120.544  44.502  -0.304  1.00 23.23      TS20
ATOM  50820  CA  HIS T  16     121.113  43.923  -1.498  1.00 23.23      TS20
ATOM  50821  CB  HIS T  16     122.540  43.462  -1.243  1.00 43.63      TS20
ATOM  50822  CG  HIS T  16     123.268  43.080  -2.488  1.00 43.63      TS20
ATOM  50823  CD2 HIS T  16     124.364  43.611  -3.073  1.00 43.63      TS20
ATOM  50824  ND1 HIS T  16     122.875  42.032  -3.289  1.00 43.63      TS20
ATOM  50825  CE1 HIS T  16     123.703  41.930  -4.313  1.00 43.63      TS20
ATOM  50826  NE2 HIS T  16     124.617  42.876  -4.205  1.00 43.63      TS20
ATOM  50827  C   HIS T  16     120.220  42.743  -1.891  1.00 23.23      TS20
ATOM  50828  O   HIS T  16     119.604  42.751  -2.958  1.00 23.23      TS20
ATOM  50829  N   ARG T  17     120.130  41.748  -1.009  1.00 28.87      TS20
ATOM  50830  CA  ARG T  17     119.305  40.582  -1.270  1.00 28.87      TS20
ATOM  50831  CB  ARG T  17     118.910  39.911   0.036  1.00 46.95      TS20
ATOM  50832  CG  ARG T  17     120.045  39.522   0.938  1.00 46.95      TS20
ATOM  50833  CD  ARG T  17     119.500  38.758   2.149  1.00 46.95      TS20
ATOM  50834  NE  ARG T  17     120.079  39.269   3.386  1.00 46.95      TS20
ATOM  50835  CZ  ARG T  17     119.421  39.382   4.537  1.00 46.95      TS20
ATOM  50836  NH1 ARG T  17     118.146  39.011   4.621  1.00 46.95      TS20
ATOM  50837  NH2 ARG T  17     120.043  39.899   5.600  1.00 46.95      TS20
ATOM  50838  C   ARG T  17     118.027  40.961  -2.018  1.00 28.87      TS20
ATOM  50839  O   ARG T  17     117.729  40.425  -3.084  1.00 28.87      TS20
ATOM  50840  N   GLN T  18     117.262  41.882  -1.451  1.00 16.03      TS20
ATOM  50841  CA  GLN T  18     116.029  42.290  -2.085  1.00 16.03      TS20
ATOM  50842  CB  GLN T  18     115.322  43.338  -1.238  1.00 50.88      TS20
ATOM  50843  CG  GLN T  18     115.716  43.254   0.214  1.00 50.88      TS20
ATOM  50844  CD  GLN T  18     114.834  44.080   1.111  1.00 50.88      TS20
ATOM  50845  OE1 GLN T  18     114.591  45.253   0.851  1.00 50.88      TS20
ATOM  50846  NE2 GLN T  18     114.352  43.474   2.186  1.00 50.88      TS20
ATOM  50847  C   GLN T  18     116.380  42.857  -3.441  1.00 16.03      TS20
ATOM  50848  O   GLN T  18     115.804  42.451  -4.456  1.00 16.03      TS20
ATOM  50849  N   SER T  19     117.341  43.779  -3.469  1.00 29.93      TS20
ATOM  50850  CA  SER T  19     117.739  44.395  -4.729  1.00 29.93      TS20
ATOM  50851  CB  SER T  19     119.103  45.083  -4.602  1.00 76.30      TS20
ATOM  50852  OG  SER T  19     120.170  44.171  -4.785  1.00 76.30      TS20
ATOM  50853  C   SER T  19     117.793  43.304  -5.793  1.00 29.93      TS20
ATOM  50854  O   SER T  19     117.210  43.433  -6.862  1.00 29.93      TS20
ATOM  50855  N   LEU T  20     118.465  42.208  -5.477  1.00 10.23      TS20
ATOM  50856  CA  LEU T  20     118.575  41.109  -6.411  1.00 10.23      TS20
ATOM  50857  CB  LEU T  20     119.384  39.994  -5.797  1.00 33.04      TS20
ATOM  50858  CG  LEU T  20     120.824  40.445  -5.808  1.00 33.04      TS20
ATOM  50859  CD1 LEU T  20     121.669  39.560  -4.941  1.00 33.04      TS20
ATOM  50860  CD2 LEU T  20     121.294  40.424  -7.253  1.00 33.04      TS20
ATOM  50861  C   LEU T  20     117.233  40.580  -6.818  1.00 10.23      TS20
ATOM  50862  O   LEU T  20     116.952  40.444  -8.004  1.00 10.23      TS20
ATOM  50863  N   LYS T  21     116.403  40.266  -5.834  1.00 41.46      TS20
ATOM  50864  CA  LYS T  21     115.090  39.732  -6.131  1.00 41.46      TS20
ATOM  50865  CB  LYS T  21     114.270  39.590  -4.851  1.00101.47      TS20
ATOM  50866  CG  LYS T  21     114.893  38.673  -3.815  1.00101.47      TS20
ATOM  50867  CD  LYS T  21     113.941  38.480  -2.648  1.00101.47      TS20
ATOM  50868  CE  LYS T  21     114.571  37.681  -1.520  1.00101.47      TS20
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ATOM  50869  NZ  LYS T  21     113.615  37.520  -0.386  1.00101.47      TS20
ATOM  50870  C   LYS T  21     114.381  40.651  -7.113  1.00 41.46      TS20
ATOM  50871  O   LYS T  21     114.012  40.234  -8.215  1.00 41.46      TS20
ATOM  50872  N   ARG T  22     114.215  41.911  -6.721  1.00 30.12      TS20
ATOM  50873  CA  ARG T  22     113.534  42.887  -7.564  1.00 30.12      TS20
ATOM  50874  CB  ARG T  22     113.663  44.268  -6.932  1.00 48.46      TS20
ATOM  50875  CG  ARG T  22     112.750  44.466  -5.753  1.00 48.46      TS20
ATOM  50876  CD  ARG T  22     112.993  45.787  -5.059  1.00 48.46      TS20
ATOM  50877  NE  ARG T  22     111.972  46.032  -4.046  1.00 48.46      TS20
ATOM  50878  CZ  ARG T  22     110.782  46.567  -4.296  1.00 48.46      TS20
ATOM  50879  NH1 ARG T  22     110.461  46.926  -5.529  1.00 48.46      TS20
ATOM  50880  NH2 ARG T  22     109.899  46.727  -3.319  1.00 48.46      TS20
ATOM  50881  C   ARG T  22     114.051  42.892  -9.010  1.00 30.12      TS20
ATOM  50882  O   ARG T  22     113.273  42.968  -9.964  1.00 30.12      TS20
ATOM  50883  N   ARG T  23     115.368  42.801  -9.164  1.00 29.88      TS20
ATOM  50884  CA  ARG T  23     115.966  42.783 -10.484  1.00 29.88      TS20
ATOM  50885  CB  ARG T  23     117.455  42.461 -10.390  1.00 90.51      TS20
ATOM  50886  CG  ARG T  23     118.143  42.245 -11.724  1.00 90.51      TS20
ATOM  50887  CD  ARG T  23     119.648  42.102 -11.529  1.00 90.51      TS20
ATOM  50888  NE  ARG T  23     120.332  41.533 -12.692  1.00 90.51      TS20
ATOM  50889  CZ  ARG T  23     120.165  40.287 -13.134  1.00 90.51      TS20
ATOM  50890  NH1 ARG T  23     119.326  39.459 -12.519  1.00 90.51      TS20
ATOM  50891  NH2 ARG T  23     120.853  39.857 -14.186  1.00 90.51      TS20
ATOM  50892  C   ARG T  23     115.255  41.738 -11.316  1.00 29.88      TS20
ATOM  50893  O   ARG T  23     114.647  42.058 -12.330  1.00 29.88      TS20
ATOM  50894  N   LEU T  24     115.293  40.488 -10.876  1.00 36.11      TS20
ATOM  50895  CA  LEU T  24     114.650  39.445 -11.656  1.00 36.11      TS20
ATOM  50896  CB  LEU T  24     114.692  38.105 -10.944  1.00 67.82      TS20
ATOM  50897  CG  LEU T  24     114.183  37.090 -11.965  1.00 67.82      TS20
ATOM  50898  CD1 LEU T  24     115.260  36.914 -13.029  1.00 67.82      TS20
ATOM  50899  CD2 LEU T  24     113.854  35.765 -11.312  1.00 67.82      TS20
ATOM  50900  C   LEU T  24     113.209  39.772 -11.991  1.00 36.11      TS20
ATOM  50901  O   LEU T  24     112.731  39.448 -13.077  1.00 36.11      TS20
ATOM  50902  N   ARG T  25     112.516  40.411 -11.059  1.00 37.80      TS20
ATOM  50903  CA  ARG T  25     111.127  40.773 -11.289  1.00 37.80      TS20
ATOM  50904  CB  ARG T  25     110.584  41.548 -10.092  1.00132.70      TS20
ATOM  50905  CG  ARG T  25     109.089  41.415  -9.901  1.00132.70      TS20
ATOM  50906  CD  ARG T  25     108.757  40.235  -9.006  1.00132.70      TS20
ATOM  50907  NE  ARG T  25     109.232  40.452  -7.640  1.00132.70      TS20
ATOM  50908  CZ  ARG T  25     108.990  39.633  -6.619  1.00132.70      TS20
ATOM  50909  NH1 ARG T  25     108.275  38.530  -6.797  1.00132.70      TS20
ATOM  50910  NH2 ARG T  25     109.460  39.924  -5.412  1.00132.70      TS20
ATOM  50911  C   ARG T  25     111.071  41.648 -12.548  1.00 37.80      TS20
ATOM  50912  O   ARG T  25     110.449  41.275 -13.548  1.00 37.80      TS20
ATOM  50913  N   ASN T  26     111.745  42.799 -12.485  1.00 27.23      TS20
ATOM  50914  CA  ASN T  26     111.805  43.766 -13.586  1.00 27.23      TS20
ATOM  50915  CB  ASN T  26     112.640  44.981 -13.190  1.00 47.00      TS20
ATOM  50916  CG  ASN T  26     112.146  45.642 -11.932  1.00 47.00      TS20
ATOM  50917  OD1 ASN T  26     110.987  46.031 -11.846  1.00 47.00      TS20
ATOM  50918  ND2 ASN T  26     113.025  45.781 -10.946  1.00 47.00      TS20
ATOM  50919  C   ASN T  26     112.417  43.173 -14.842  1.00 27.23      TS20
ATOM  50920  O   ASN T  26     111.854  43.284 -15.930  1.00 27.23      TS20
ATOM  50921  N   LYS T  27     113.584  42.558 -14.683  1.00 45.75      TS20
ATOM  50922  CA  LYS T  27     114.298  41.937 -15.790  1.00 45.75      TS20
ATOM  50923  CB  LYS T  27     115.434  41.077 -15.251  1.00 68.19      TS20
ATOM  50924  CG  LYS T  27     116.119  40.289 -16.333  1.00 68.19      TS20
ATOM  50925  CD  LYS T  27     117.056  39.260 -15.764  1.00 68.19      TS20
ATOM  50926  CE  LYS T  27     117.666  38.434 -16.884  1.00 68.19      TS20
ATOM  50927  NZ  LYS T  27     118.567  37.380 -16.348  1.00 68.19      TS20
ATOM  50928  C   LYS T  27     113.412  41.072 -16.695  1.00 45.75      TS20
ATOM  50929  O   LYS T  27     113.700  40.894 -17.884  1.00 45.75      TS20
ATOM  50930  N   ALA T  28     112.336  40.532 -16.133  1.00 23.12      TS20
ATOM  50931  CA  ALA T  28     111.444  39.681 -16.898  1.00 23.12      TS20
ATOM  50932  CB  ALA T  28     110.974  38.532 -16.047  1.00 59.54      TS20
ATOM  50933  C   ALA T  28     110.257  40.446 -17.429  1.00 23.12      TS20
ATOM  50934  O   ALA T  28     109.934  40.349 -18.605  1.00 23.12      TS20
ATOM  50935  N   LYS T  29     109.599  41.203 -16.563  1.00 33.24      TS20
ATOM  50936  CA  LYS T  29     108.436  41.966 -16.995  1.00 33.24      TS20
ATOM  50937  CB  LYS T  29     108.027  42.974 -15.918  1.00 62.70      TS20
ATOM  50938  CG  LYS T  29     107.771  42.344 -14.566  1.00 62.70      TS20
ATOM  50939  CD  LYS T  29     106.622  43.021 -13.833  1.00 62.70      TS20
ATOM  50940  CE  LYS T  29     105.313  42.908 -14.616  1.00 62.70      TS20
ATOM  50941  NZ  LYS T  29     104.112  43.296 -13.807  1.00 62.70      TS20
ATOM  50942  C   LYS T  29     108.750  42.691 -18.298  1.00 33.24      TS20
ATOM  50943  O   LYS T  29     107.985  42.619 -19.275  1.00 33.24      TS20
ATOM  50944  N   LYS T  30     109.895  43.374 -18.296  1.00 49.10      TS20
ATOM  50945  CA  LYS T  30     110.366  44.133 -19.446  1.00 49.10      TS20
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ATOM  50946  CB  LYS T  30     111.667  44.864 -19.105  1.00 60.59      TS20
ATOM  50947  CG  LYS T  30     111.584  46.377 -19.306  1.00 60.59      TS20
ATOM  50948  CD  LYS T  30     112.805  47.108 -18.761  1.00 60.59      TS20
ATOM  50949  CE  LYS T  30     112.913  46.984 -17.244  1.00 60.59      TS20
ATOM  50950  NZ  LYS T  30     114.200  47.533 -16.702  1.00 60.59      TS20
ATOM  50951  C   LYS T  30     110.601  43.176 -20.588  1.00 49.10      TS20
ATOM  50952  O   LYS T  30     110.059  43.345 -21.679  1.00 49.10      TS20
ATOM  50953  N   SER T  31     111.399  42.154 -20.317  1.00 28.43      TS20
ATOM  50954  CA  SER T  31     111.708  41.161 -21.327  1.00 28.43      TS20
ATOM  50955  CB  SER T  31     112.472  39.997 -20.696  1.00 42.59      TS20
ATOM  50956  OG  SER T  31     113.068  39.187 -21.698  1.00 42.59      TS20
ATOM  50957  C   SER T  31     110.456  40.650 -22.049  1.00 28.43      TS20
ATOM  50958  O   SER T  31     110.452  40.505 -23.270  1.00 28.43      TS20
ATOM  50959  N   ALA T  32     109.392  40.380 -21.305  1.00 37.08      TS20
ATOM  50960  CA  ALA T  32     108.161  39.894 -21.919  1.00 37.08      TS20
ATOM  50961  CB  ALA T  32     107.130  39.595 -20.845  1.00144.40      TS20
ATOM  50962  C   ALA T  32     107.633  40.963 -22.866  1.00 37.08      TS20
ATOM  50963  O   ALA T  32     107.350  40.695 -24.042  1.00 37.08      TS20
ATOM  50964  N   ILE T  33     107.503  42.175 -22.328  1.00 36.24      TS20
ATOM  50965  CA  ILE T  33     107.028  43.320 -23.088  1.00 36.24      TS20
ATOM  50966  CB  ILE T  33     107.381  44.647 -22.416  1.00 34.57      TS20
ATOM  50967  CG2 ILE T  33     107.274  45.775 -23.427  1.00 34.57      TS20
ATOM  50968  CG1 ILE T  33     106.463  44.897 -21.227  1.00 34.57      TS20
ATOM  50969  CD1 ILE T  33     106.567  46.300 -20.671  1.00 34.57      TS20
ATOM  50970  C   ILE T  33     107.710  43.330 -24.423  1.00 36.24      TS20
ATOM  50971  O   ILE T  33     107.089  43.090 -25.446  1.00 36.24      TS20
ATOM  50972  N   LYS T  34     109.003  43.615 -24.398  1.00 35.79      TS20
ATOM  50973  CA  LYS T  34     109.783  43.675 -25.615  1.00 35.79      TS20
ATOM  50974  CB  LYS T  34     111.258  43.422 -25.311  1.00 96.95      TS20
ATOM  50975  CG  LYS T  34     111.861  44.504 -24.433  1.00 96.95      TS20
ATOM  50976  CD  LYS T  34     113.314  44.244 -24.094  1.00 96.95      TS20
ATOM  50977  CE  LYS T  34     113.849  45.354 -23.207  1.00 96.95      TS20
ATOM  50978  NZ  LYS T  34     115.260  45.115 -22.808  1.00 96.95      TS20
ATOM  50979  C   LYS T  34     109.270  42.663 -26.613  1.00 35.79      TS20
ATOM  50980  O   LYS T  34     108.726  43.023 -27.667  1.00 35.79      TS20
ATOM  50981  N   THR T  35     109.394  41.392 -26.253  1.00 36.96      TS20
ATOM  50982  CA  THR T  35     108.983  40.313 -27.134  1.00 36.96      TS20
ATOM  50983  CB  THR T  35     108.961  39.008 -26.386  1.00 36.49      TS20
ATOM  50984  OG1 THR T  35     110.134  38.926 -25.569  1.00 36.49      TS20
ATOM  50985  CG2 THR T  35     108.985  37.863 -27.360  1.00 36.49      TS20
ATOM  50986  C   THR T  35     107.648  40.525 -27.818  1.00 36.96      TS20
ATOM  50987  O   THR T  35     107.573  40.548 -29.048  1.00 36.96      TS20
ATOM  50988  N   LEU T  36     106.599  40.684 -27.023  1.00 23.42      TS20
ATOM  50989  CA  LEU T  36     105.274  40.898 -27.577  1.00 23.42      TS20
ATOM  50990  CB  LEU T  36     104.265  41.141 -26.469  1.00 43.15      TS20
ATOM  50991  CG  LEU T  36     104.038  39.963 -25.546  1.00 43.15      TS20
ATOM  50992  CD1 LEU T  36     102.756  40.204 -24.768  1.00 43.15      TS20
ATOM  50993  CD2 LEU T  36     103.926  38.694 -26.366  1.00 43.15      TS20
ATOM  50994  C   LEU T  36     105.245  42.079 -28.524  1.00 23.42      TS20
ATOM  50995  O   LEU T  36     104.540  42.055 -29.525  1.00 23.42      TS20
ATOM  50996  N   SER T  37     105.999  43.119 -28.196  1.00 31.99      TS20
ATOM  50997  CA  SER T  37     106.038  44.299 -29.039  1.00 31.99      TS20
ATOM  50998  CB  SER T  37     106.960  45.349 -28.435  1.00 31.88      TS20
ATOM  50999  OG  SER T  37     106.490  45.758 -27.169  1.00 31.88      TS20
ATOM  51000  C   SER T  37     106.545  43.892 -30.409  1.00 31.99      TS20
ATOM  51001  O   SER T  37     105.832  44.035 -31.410  1.00 31.99      TS20
ATOM  51002  N   LYS T  38     107.778  43.388 -30.448  1.00 45.74      TS20
ATOM  51003  CA  LYS T  38     108.368  42.937 -31.698  1.00 45.74      TS20
ATOM  51004  CB  LYS T  38     109.605  42.092 -31.412  1.00119.28      TS20
ATOM  51005  CG  LYS T  38     110.663  42.841 -30.611  1.00119.28      TS20
ATOM  51006  CD  LYS T  38     111.852  41.955 -30.244  1.00119.28      TS20
ATOM  51007  CE  LYS T  38     112.916  42.731 -29.466  1.00119.28      TS20
ATOM  51008  NZ  LYS T  38     112.405  43.299 -28.183  1.00119.28      TS20
ATOM  51009  C   LYS T  38     107.282  42.098 -32.359  1.00 45.74      TS20
ATOM  51010  O   LYS T  38     106.834  42.388 -33.472  1.00 45.74      TS20
ATOM  51011  N   LYS T  39     106.838  41.080 -31.631  1.00 39.50      TS20
ATOM  51012  CA  LYS T  39     105.789  40.175 -32.079  1.00 39.50      TS20
ATOM  51013  CB  LYS T  39     105.145  39.526 -30.855  1.00 63.89      TS20
ATOM  51014  CG  LYS T  39     105.041  38.011 -30.879  1.00 63.89      TS20
ATOM  51015  CD  LYS T  39     103.921  37.535 -31.780  1.00 63.89      TS20
ATOM  51016  CE  LYS T  39     103.309  36.218 -31.285  1.00 63.89      TS20
ATOM  51017  NZ  LYS T  39     102.593  36.329 -29.967  1.00 63.89      TS20
ATOM  51018  C   LYS T  39     104.728  40.928 -32.877  1.00 39.50      TS20
ATOM  51019  O   LYS T  39     104.416  40.575 -34.008  1.00 39.50      TS20
ATOM  51020  N   ALA T  40     104.188  41.980 -32.282  1.00 47.65      TS20
ATOM  51021  CA  ALA T  40     103.150  42.757 -32.932  1.00 47.65      TS20
ATOM  51022  CB  ALA T  40     102.569  43.761 -31.960  1.00 11.91      TS20
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ATOM  51023  C   ALA T  40     103.645  43.469 -34.173  1.00 47.65      TS20
ATOM  51024  O   ALA T  40     102.933  43.554 -35.174  1.00 47.65      TS20
ATOM  51025  N   VAL T  41     104.861  43.992 -34.113  1.00 32.14      TS20
ATOM  51026  CA  VAL T  41     105.409  44.698 -35.266  1.00 32.14      TS20
ATOM  51027  CB  VAL T  41     106.764  45.359 -34.939  1.00 17.99      TS20
ATOM  51028  CG1 VAL T  41     107.416  45.833 -36.212  1.00 17.99      TS20
ATOM  51029  CG2 VAL T  41     106.558  46.532 -33.965  1.00 17.99      TS20
ATOM  51030  C   VAL T  41     105.590  43.724 -36.419  1.00 32.14      TS20
ATOM  51031  O   VAL T  41     104.985  43.883 -37.473  1.00 32.14      TS20
ATOM  51032  N   GLN T  42     106.412  42.706 -36.207  1.00 56.17      TS20
ATOM  51033  CA  GLN T  42     106.652  41.708 -37.235  1.00 56.17      TS20
ATOM  51034  CB  GLN T  42     107.463  40.544 -36.666  1.00170.94      TS20
ATOM  51035  CG  GLN T  42     108.959  40.703 -36.863  1.00170.94      TS20
ATOM  51036  CD  GLN T  42     109.362  40.599 -38.322  1.00170.94      TS20
ATOM  51037  OE1 GLN T  42     110.505  40.874 -38.685  1.00170.94      TS20
ATOM  51038  NE2 GLN T  42     108.423  40.189 -39.166  1.00170.94      TS20
ATOM  51039  C   GLN T  42     105.363  41.183 -37.851  1.00 56.17      TS20
ATOM  51040  O   GLN T  42     105.398  40.484 -38.855  1.00 56.17      TS20
ATOM  51041  N   LEU T  43     104.223  41.505 -37.255  1.00 31.21      TS20
ATOM  51042  CA  LEU T  43     102.953  41.050 -37.804  1.00 31.21      TS20
ATOM  51043  CB  LEU T  43     101.950  40.714 -36.701  1.00 52.20      TS20
ATOM  51044  CG  LEU T  43     102.162  39.483 -35.825  1.00 52.20      TS20
ATOM  51045  CD1 LEU T  43     100.854  39.216 -35.117  1.00 52.20      TS20
ATOM  51046  CD2 LEU T  43     102.577  38.266 -36.653  1.00 52.20      TS20
ATOM  51047  C   LEU T  43     102.380  42.150 -38.660  1.00 31.21      TS20
ATOM  51048  O   LEU T  43     102.188  41.965 -39.858  1.00 31.21      TS20
ATOM  51049  N   ALA T  44     102.092  43.289 -38.028  1.00 43.86      TS20
ATOM  51050  CA  ALA T  44     101.556  44.456 -38.724  1.00 43.86      TS20
ATOM  51051  CB  ALA T  44     101.540  45.660 -37.792  1.00 47.51      TS20
ATOM  51052  C   ALA T  44     102.512  44.702 -39.871  1.00 43.86      TS20
ATOM  51053  O   ALA T  44     102.125  45.161 -40.943  1.00 43.86      TS20
ATOM  51054  N   GLN T  45     103.773  44.377 -39.602  1.00 65.21      TS20
ATOM  51055  CA  GLN T  45     104.871  44.496 -40.546  1.00 65.21      TS20
ATOM  51056  CB  GLN T  45     106.042  43.642 -40.045  1.00 93.19      TS20
ATOM  51057  CG  GLN T  45     107.410  44.023 -40.561  1.00 93.19      TS20
ATOM  51058  CD  GLN T  45     107.502  43.896 -42.052  1.00 93.19      TS20
ATOM  51059  OE1 GLN T  45     107.051  42.906 -42.630  1.00 93.19      TS20
ATOM  51060  NE2 GLN T  45     108.095  44.894 -42.693  1.00 93.19      TS20
ATOM  51061  C   GLN T  45     104.360  43.981 -41.885  1.00 65.21      TS20
ATOM  51062  O   GLN T  45     104.528  44.624 -42.918  1.00 65.21      TS20
ATOM  51063  N   GLU T  46     103.713  42.822 -41.840  1.00 32.38      TS20
ATOM  51064  CA  GLU T  46     103.137  42.184 -43.016  1.00 32.38      TS20
ATOM  51065  CB  GLU T  46     103.575  40.727 -43.065  1.00 78.06      TS20
ATOM  51066  CG  GLU T  46     103.570  40.092 -41.701  1.00 78.06      TS20
ATOM  51067  CD  GLU T  46     104.491  38.908 -41.622  1.00 78.06      TS20
ATOM  51068  OE1 GLU T  46     105.596  38.984 -42.199  1.00 78.06      TS20
ATOM  51069  OE2 GLU T  46     104.121  37.908 -40.973  1.00 78.06      TS20
ATOM  51070  C   GLU T  46     101.612  42.277 -42.984  1.00 32.38      TS20
ATOM  51071  O   GLU T  46     100.915  41.447 -43.556  1.00 32.38      TS20
ATOM  51072  N   GLY T  47     101.103  43.287 -42.291  1.00 84.84      TS20
ATOM  51073  CA  GLY T  47      99.668  43.498 -42.211  1.00 84.84      TS20
ATOM  51074  C   GLY T  47      98.764  42.328 -41.856  1.00 84.84      TS20
ATOM  51075  O   GLY T  47      97.955  41.879 -42.673  1.00 84.84      TS20
ATOM  51076  N   LYS T  48      98.893  41.837 -40.630  1.00 65.51      TS20
ATOM  51077  CA  LYS T  48      98.063  40.743 -40.166  1.00 65.51      TS20
ATOM  51078  CB  LYS T  48      98.921  39.697 -39.459  1.00133.01      TS20
ATOM  51079  CG  LYS T  48      99.835  38.936 -40.405  1.00133.01      TS20
ATOM  51080  CD  LYS T  48      99.023  38.210 -41.468  1.00133.01      TS20
ATOM  51081  CE  LYS T  48      99.916  37.470 -42.445  1.00133.01      TS20
ATOM  51082  NZ  LYS T  48     100.723  36.416 -41.772  1.00133.01      TS20
ATOM  51083  C   LYS T  48      97.034  41.334 -39.219  1.00 65.51      TS20
ATOM  51084  O   LYS T  48      96.462  40.640 -38.384  1.00 65.51      TS20
ATOM  51085  N   ALA T  49      96.817  42.635 -39.378  1.00 80.25      TS20
ATOM  51086  CA  ALA T  49      95.868  43.417 -38.589  1.00 80.25      TS20
ATOM  51087  CB  ALA T  49      94.740  43.906 -39.491  1.00139.03      TS20
ATOM  51088  C   ALA T  49      95.283  42.706 -37.374  1.00 80.25      TS20
ATOM  51089  O   ALA T  49      95.664  42.989 -36.240  1.00 80.25      TS20
ATOM  51090  N   GLU T  50      94.346  41.793 -37.622  1.00 75.86      TS20
ATOM  51091  CA  GLU T  50      93.694  41.041 -36.557  1.00 75.86      TS20
ATOM  51092  CB  GLU T  50      92.960  39.827 -37.125  1.00182.45      TS20
ATOM  51093  CG  GLU T  50      91.610  40.144 -37.728  1.00182.45      TS20
ATOM  51094  CD  GLU T  50      90.806  38.895 -38.017  1.00182.45      TS20
ATOM  51095  OE1 GLU T  50      91.268  38.069 -38.833  1.00182.45      TS20
ATOM  51096  OE2 GLU T  50      89.716  38.737 -37.425  1.00182.45      TS20
ATOM  51097  C   GLU T  50      94.667  40.573 -35.493  1.00 75.86      TS20
ATOM  51098  O   GLU T  50      94.809  41.214 -34.453  1.00 75.86      TS20
ATOM  51099  N   GLU T  51      95.335  39.454 -35.757  1.00 58.80      TS20
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ATOM  51100  CA  GLU T  51      96.281  38.910 -34.803  1.00 58.80       TS20
ATOM  51101  CB  GLU T  51      96.896  37.611 -35.337  1.00176.99       TS20
ATOM  51102  CG  GLU T  51      97.531  37.710 -36.710  1.00176.99       TS20
ATOM  51103  CD  GLU T  51      98.028  36.363 -37.213  1.00176.99       TS20
ATOM  51104  OE1 GLU T  51      98.837  35.724 -36.506  1.00176.99       TS20
ATOM  51105  OE2 GLU T  51      97.611  35.943 -38.315  1.00176.99       TS20
ATOM  51106  C   GLU T  51      97.365  39.926 -34.466  1.00 58.80       TS20
ATOM  51107  O   GLU T  51      97.923  39.918 -33.364  1.00 58.80       TS20
ATOM  51108  N   ALA T  52      97.651  40.820 -35.404  1.00 74.58       TS20
ATOM  51109  CA  ALA T  52      98.666  41.835 -35.174  1.00 74.58       TS20
ATOM  51110  CB  ALA T  52      98.914  42.614 -36.453  1.00 20.19       TS20
ATOM  51111  C   ALA T  52      98.218  42.767 -34.046  1.00 74.58       TS20
ATOM  51112  O   ALA T  52      98.932  42.951 -33.064  1.00 74.58       TS20
ATOM  51113  N   LEU T  53      97.032  43.347 -34.183  1.00 33.48       TS20
ATOM  51114  CA  LEU T  53      96.517  44.235 -33.155  1.00 33.48       TS20
ATOM  51115  CB  LEU T  53      95.190  44.868 -33.581  1.00 36.76       TS20
ATOM  51116  CG  LEU T  53      95.328  46.137 -34.429  1.00 36.76       TS20
ATOM  51117  CD1 LEU T  53      94.033  46.445 -35.137  1.00 36.76       TS20
ATOM  51118  CD2 LEU T  53      95.736  47.291 -33.539  1.00 36.76       TS20
ATOM  51119  C   LEU T  53      96.318  43.440 -31.888  1.00 33.48       TS20
ATOM  51120  O   LEU T  53      96.886  43.780 -30.853  1.00 33.48       TS20
ATOM  51121  N   LYS T  54      95.522  42.377 -31.966  1.00100.15       TS20
ATOM  51122  CA  LYS T  54      95.267  41.546 -30.793  1.00100.15       TS20
ATOM  51123  CB  LYS T  54      94.831  40.136 -31.196  1.00200.92       TS20
ATOM  51124  CG  LYS T  54      93.336  40.025 -31.456  1.00200.92       TS20
ATOM  51125  CD  LYS T  54      92.876  38.578 -31.555  1.00200.92       TS20
ATOM  51126  CE  LYS T  54      91.356  38.494 -31.616  1.00200.92       TS20
ATOM  51127  NZ  LYS T  54      90.865  37.090 -31.670  1.00200.92       TS20
ATOM  51128  C   LYS T  54      96.508  41.487 -29.927  1.00100.15       TS20
ATOM  51129  O   LYS T  54      96.450  41.795 -28.737  1.00100.15       TS20
ATOM  51130  N   ILE T  55      97.635  41.108 -30.520  1.00 26.13       TS20
ATOM  51131  CA  ILE T  55      98.878  41.065 -29.756  1.00 26.13       TS20
ATOM  51132  CB  ILE T  55     100.062  40.619 -30.619  1.00 24.09       TS20
ATOM  51133  CG2 ILE T  55     101.392  40.927 -29.919  1.00 24.09       TS20
ATOM  51134  CG1 ILE T  55      99.942  39.137 -30.899  1.00 24.09       TS20
ATOM  51135  CD1 ILE T  55     101.126  38.609 -31.607  1.00 24.09       TS20
ATOM  51136  C   ILE T  55      99.189  42.458 -29.208  1.00 26.13       TS20
ATOM  51137  O   ILE T  55      99.320  42.658 -27.993  1.00 26.13       TS20
ATOM  51138  N   MET T  56      99.321  43.415 -30.117  1.00 22.22       TS20
ATOM  51139  CA  MET T  56      99.600  44.774 -29.715  1.00 22.22       TS20
ATOM  51140  CB  MET T  56      99.134  45.748 -30.795  1.00 55.89       TS20
ATOM  51141  CG  MET T  56      99.412  47.184 -30.440  1.00 55.89       TS20
ATOM  51142  SD  MET T  56      98.094  48.255 -30.946  1.00 55.89       TS20
ATOM  51143  CE  MET T  56      98.846  49.057 -32.299  1.00 55.89       TS20
ATOM  51144  C   MET T  56      98.863  45.058 -28.405  1.00 22.22       TS20
ATOM  51145  O   MET T  56      99.434  45.621 -27.467  1.00 22.22       TS20
ATOM  51146  N   ARG T  57      97.596  44.656 -28.342  1.00 46.97       TS20
ATOM  51147  CA  ARG T  57      96.816  44.875 -27.138  1.00 46.97       TS20
ATOM  51148  CB  ARG T  57      95.438  44.227 -27.247  1.00 85.67       TS20
ATOM  51149  CG  ARG T  57      94.438  44.989 -28.086  1.00 85.67       TS20
ATOM  51150  CD  ARG T  57      94.500  44.553 -29.530  1.00 85.67       TS20
ATOM  51151  NE  ARG T  57      93.162  44.426 -30.095  1.00 85.67       TS20
ATOM  51152  CZ  ARG T  57      92.209  43.668 -29.567  1.00 85.67       TS20
ATOM  51153  NH1 ARG T  57      92.450  42.971 -28.466  1.00 85.67       TS20
ATOM  51154  NH2 ARG T  57      91.011  43.615 -30.126  1.00 85.67       TS20
ATOM  51155  C   ARG T  57      97.532  44.331 -25.905  1.00 46.97       TS20
ATOM  51156  O   ARG T  57      97.864  45.093 -24.997  1.00 46.97       TS20
ATOM  51157  N   LYS T  58      97.768  43.021 -25.860  1.00 27.80       TS20
ATOM  51158  CA  LYS T  58      98.456  42.439 -24.709  1.00 27.80       TS20
ATOM  51159  CB  LYS T  58      98.958  41.029 -25.032  1.00132.88       TS20
ATOM  51160  CG  LYS T  58      97.828  40.051 -25.325  1.00132.88       TS20
ATOM  51161  CD  LYS T  58      98.328  38.640 -25.603  1.00132.88       TS20
ATOM  51162  CE  LYS T  58      97.169  37.699 -25.938  1.00132.88       TS20
ATOM  51163  NZ  LYS T  58      97.621  36.317 -26.282  1.00132.88       TS20
ATOM  51164  C   LYS T  58      99.617  43.357 -24.389  1.00 27.80       TS20
ATOM  51165  O   LYS T  58      99.667  43.966 -23.315  1.00 27.80       TS20
ATOM  51166  N   ALA T  59     100.526  43.477 -25.355  1.00 12.92       TS20
ATOM  51167  CA  ALA T  59     101.686  44.339 -25.223  1.00 12.92       TS20
ATOM  51168  CB  ALA T  59     102.224  44.685 -26.594  1.00 41.03       TS20
ATOM  51169  C   ALA T  59     101.289  45.604 -24.472  1.00 12.92       TS20
ATOM  51170  O   ALA T  59     101.853  45.905 -23.426  1.00 12.92       TS20
ATOM  51171  N   GLU T  60     100.313  46.340 -24.994  1.00 26.59       TS20
ATOM  51172  CA  GLU T  60      99.883  47.552 -24.319  1.00 26.59       TS20
ATOM  51173  CB  GLU T  60      98.550  48.047 -24.862  1.00 49.20       TS20
ATOM  51174  CG  GLU T  60      98.008  49.249 -24.111  1.00 49.20       TS20
ATOM  51175  CD  GLU T  60      96.824  49.886 -24.813  1.00 49.20       TS20
ATOM  51176  OE1 GLU T  60      96.250  50.850 -24.265  1.00 49.20       TS20
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ATOM  51177  OE2 GLU T  60      96.465  49.425 -25.919  1.00 49.20      TS20
ATOM  51178  C   GLU T  60      99.744  47.221 -22.849  1.00 26.59      TS20
ATOM  51179  O   GLU T  60     100.486  47.735 -22.013  1.00 26.59      TS20
ATOM  51180  N   SER T  61      98.811  46.330 -22.543  1.00 28.11      TS20
ATOM  51181  CA  SER T  61      98.573  45.908 -21.168  1.00 28.11      TS20
ATOM  51182  CB  SER T  61      97.754  44.630 -21.153  1.00 38.93      TS20
ATOM  51183  OG  SER T  61      97.633  44.161 -19.833  1.00 38.93      TS20
ATOM  51184  C   SER T  61      99.870  45.678 -20.405  1.00 28.11      TS20
ATOM  51185  O   SER T  61     100.184  46.409 -19.471  1.00 28.11      TS20
ATOM  51186  N   LEU T  62     100.608  44.650 -20.802  1.00 45.17      TS20
ATOM  51187  CA  LEU T  62     101.881  44.332 -20.170  1.00 45.17      TS20
ATOM  51188  CB  LEU T  62     102.766  43.543 -21.130  1.00 51.81      TS20
ATOM  51189  CG  LEU T  62     102.713  42.021 -21.113  1.00 51.81      TS20
ATOM  51190  CD1 LEU T  62     103.298  41.544 -19.802  1.00 51.81      TS20
ATOM  51191  CD2 LEU T  62     101.288  41.533 -21.307  1.00 51.81      TS20
ATOM  51192  C   LEU T  62     102.609  45.608 -19.794  1.00 45.17      TS20
ATOM  51193  O   LEU T  62     103.013  45.803 -18.641  1.00 45.17      TS20
ATOM  51194  N   ILE T  63     102.778  46.472 -20.786  1.00 27.70      TS20
ATOM  51195  CA  ILE T  63     103.466  47.735 -20.591  1.00 27.70      TS20
ATOM  51196  CB  ILE T  63     103.474  48.545 -21.895  1.00 22.93      TS20
ATOM  51197  CG2 ILE T  63     104.279  49.810 -21.727  1.00 22.93      TS20
ATOM  51198  CG1 ILE T  63     104.108  47.717 -23.001  1.00 22.93      TS20
ATOM  51199  CD1 ILE T  63     104.176  48.437 -24.307  1.00 22.93      TS20
ATOM  51200  C   ILE T  63     102.820  48.557 -19.477  1.00 27.70      TS20
ATOM  51201  O   ILE T  63     103.476  48.911 -18.494  1.00 27.70      TS20
ATOM  51202  N   ASP T  64     101.534  48.856 -19.631  1.00 27.80      TS20
ATOM  51203  CA  ASP T  64     100.816  49.632 -18.629  1.00 27.80      TS20
ATOM  51204  CB  ASP T  64      99.321  49.644 -18.946  1.00 97.98      TS20
ATOM  51205  CG  ASP T  64      98.958  50.677 -19.991  1.00 97.98      TS20
ATOM  51206  OD1 ASP T  64      99.005  51.883 -19.668  1.00 97.98      TS20
ATOM  51207  OD2 ASP T  64      98.636  50.289 -21.135  1.00 97.98      TS20
ATOM  51208  C   ASP T  64     101.047  49.062 -17.237  1.00 27.80      TS20
ATOM  51209  O   ASP T  64     101.327  49.793 -16.288  1.00 27.80      TS20
ATOM  51210  N   LYS T  65     100.930  47.745 -17.128  1.00 39.91      TS20
ATOM  51211  CA  LYS T  65     101.126  47.063 -15.861  1.00 39.91      TS20
ATOM  51212  CB  LYS T  65     100.862  45.572 -16.032  1.00 48.14      TS20
ATOM  51213  CG  LYS T  65      99.422  45.264 -16.372  1.00 48.14      TS20
ATOM  51214  CD  LYS T  65      99.127  43.788 -16.226  1.00 48.14      TS20
ATOM  51215  CE  LYS T  65      97.630  43.539 -16.222  1.00 48.14      TS20
ATOM  51216  NZ  LYS T  65      97.325  42.094 -16.050  1.00 48.14      TS20
ATOM  51217  C   LYS T  65     102.542  47.286 -15.368  1.00 39.91      TS20
ATOM  51218  O   LYS T  65     102.779  47.544 -14.181  1.00 39.91      TS20
ATOM  51219  N   ALA T  66     103.492  47.171 -16.286  1.00 32.83      TS20
ATOM  51220  CA  ALA T  66     104.872  47.381 -15.915  1.00 32.83      TS20
ATOM  51221  CB  ALA T  66     105.728  47.543 -17.164  1.00 16.91      TS20
ATOM  51222  C   ALA T  66     104.925  48.642 -15.053  1.00 32.83      TS20
ATOM  51223  O   ALA T  66     105.455  48.621 -13.950  1.00 32.83      TS20
ATOM  51224  N   ALA T  67     104.324  49.718 -15.553  1.00 29.14      TS20
ATOM  51225  CA  ALA T  67     104.305  51.006 -14.866  1.00 29.14      TS20
ATOM  51226  CB  ALA T  67     103.722  52.060 -15.756  1.00  2.30      TS20
ATOM  51227  C   ALA T  67     103.542  51.000 -13.570  1.00 29.14      TS20
ATOM  51228  O   ALA T  67     103.785  51.847 -12.705  1.00 29.14      TS20
ATOM  51229  N   LYS T  68     102.588  50.075 -13.464  1.00 52.90      TS20
ATOM  51230  CA  LYS T  68     101.773  49.924 -12.265  1.00 52.90      TS20
ATOM  51231  CB  LYS T  68     100.955  48.628 -12.366  1.00135.23      TS20
ATOM  51232  CG  LYS T  68      99.977  48.348 -11.228  1.00135.23      TS20
ATOM  51233  CD  LYS T  68      98.773  49.289 -11.221  1.00135.23      TS20
ATOM  51234  CE  LYS T  68      99.094  50.640 -10.583  1.00135.23      TS20
ATOM  51235  NZ  LYS T  68      97.886  51.502 -10.431  1.00135.23      TS20
ATOM  51236  C   LYS T  68     102.777  49.855 -11.115  1.00 52.90      TS20
ATOM  51237  O   LYS T  68     102.697  50.605 -10.146  1.00 52.90      TS20
ATOM  51238  N   GLY T  69     103.746  48.962 -11.246  1.00 55.29      TS20
ATOM  51239  CA  GLY T  69     104.759  48.844 -10.222  1.00 55.29      TS20
ATOM  51240  C   GLY T  69     105.850  49.863 -10.475  1.00 55.29      TS20
ATOM  51241  O   GLY T  69     105.570  50.970 -10.929  1.00 55.29      TS20
ATOM  51242  N   SER T  70     107.097  49.488 -10.199  1.00 33.99      TS20
ATOM  51243  CA  SER T  70     108.223  50.392 -10.400  1.00 33.99      TS20
ATOM  51244  CB  SER T  70     108.940  50.657  -9.064  1.00 41.69      TS20
ATOM  51245  OG  SER T  70     109.683  49.530  -8.629  1.00 41.69      TS20
ATOM  51246  C   SER T  70     109.212  49.838 -11.423  1.00 33.99      TS20
ATOM  51247  O   SER T  70     110.392  50.155 -11.386  1.00 33.99      TS20
ATOM  51248  N   THR T  71     108.734  49.006 -12.338  1.00 47.61      TS20
ATOM  51249  CA  THR T  71     109.617  48.453 -13.345  1.00 47.61      TS20
ATOM  51250  CB  THR T  71     109.030  47.235 -14.003  1.00 43.30      TS20
ATOM  51251  OG1 THR T  71     108.633  46.305 -12.994  1.00 43.30      TS20
ATOM  51252  CG2 THR T  71     110.057  46.594 -14.908  1.00 43.30      TS20
ATOM  51253  C   THR T  71     109.800  49.492 -14.411  1.00 47.61      TS20
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ATOM  51254  O   THR T  71     110.897  49.997 -14.610  1.00 47.61      TS20
ATOM  51255  N   LEU T  72     108.715  49.798 -15.111  1.00 54.66      TS20
ATOM  51256  CA  LEU T  72     108.750  50.798 -16.161  1.00 54.66      TS20
ATOM  51257  CB  LEU T  72     107.626  50.595 -17.142  1.00 17.51      TS20
ATOM  51258  CG  LEU T  72     107.961  49.880 -18.425  1.00 17.51      TS20
ATOM  51259  CD1 LEU T  72     106.741  49.979 -19.341  1.00 17.51      TS20
ATOM  51260  CD2 LEU T  72     109.197  50.498 -19.061  1.00 17.51      TS20
ATOM  51261  C   LEU T  72     108.507  52.117 -15.516  1.00 54.66      TS20
ATOM  51262  O   LEU T  72     109.310  53.039 -15.594  1.00 54.66      TS20
ATOM  51263  N   HIS T  73     107.342  52.190 -14.897  1.00 59.61      TS20
ATOM  51264  CA  HIS T  73     106.900  53.377 -14.209  1.00 59.61      TS20
ATOM  51265  CB  HIS T  73     107.549  53.422 -12.826  1.00 96.20      TS20
ATOM  51266  CG  HIS T  73     106.611  53.845 -11.746  1.00 96.20      TS20
ATOM  51267  CD2 HIS T  73     106.758  54.722 -10.726  1.00 96.20      TS20
ATOM  51268  ND1 HIS T  73     105.333  53.342 -11.640  1.00 96.20      TS20
ATOM  51269  CE1 HIS T  73     104.731  53.892 -10.602  1.00 96.20      TS20
ATOM  51270  NE2 HIS T  73     105.574  54.733 -10.030  1.00 96.20      TS20
ATOM  51271  C   HIS T  73     107.160  54.681 -14.977  1.00 59.61      TS20
ATOM  51272  O   HIS T  73     108.186  54.853 -15.639  1.00 59.61      TS20
ATOM  51273  N   LYS T  74     106.189  55.585 -14.890  1.00 66.60      TS20
ATOM  51274  CA  LYS T  74     106.292  56.881 -15.522  1.00 66.60      TS20
ATOM  51275  CB  LYS T  74     107.768  57.325 -15.592  1.00 50.92      TS20
ATOM  51276  CG  LYS T  74     108.444  57.545 -14.280  1.00 50.92      TS20
ATOM  51277  CD  LYS T  74     108.046  58.882 -13.739  1.00 50.92      TS20
ATOM  51278  CE  LYS T  74     108.262  58.953 -12.229  1.00 50.92      TS20
ATOM  51279  NZ  LYS T  74     109.694  58.931 -11.753  1.00 50.92      TS20
ATOM  51280  C   LYS T  74     105.710  56.916 -16.919  1.00 66.60      TS20
ATOM  51281  O   LYS T  74     104.645  56.373 -17.207  1.00 66.60      TS20
ATOM  51282  N   ASN T  75     106.482  57.583 -17.766  1.00 40.05      TS20
ATOM  51283  CA  ASN T  75     106.209  57.827 -19.157  1.00 40.05      TS20
ATOM  51284  CB  ASN T  75     106.658  59.231 -19.459  1.00 43.77      TS20
ATOM  51285  CG  ASN T  75     106.451  60.141 -18.277  1.00 43.77      TS20
ATOM  51286  OD1 ASN T  75     105.316  60.421 -17.887  1.00 43.77      TS20
ATOM  51287  ND2 ASN T  75     107.545  60.591 -17.680  1.00 43.77      TS20
ATOM  51288  C   ASN T  75     106.996  56.841 -19.975  1.00 40.05      TS20
ATOM  51289  O   ASN T  75     106.929  56.840 -21.207  1.00 40.05      TS20
ATOM  51290  N   ALA T  76     107.767  56.014 -19.279  1.00 44.02      TS20
ATOM  51291  CA  ALA T  76     108.547  54.991 -19.945  1.00 44.02      TS20
ATOM  51292  CB  ALA T  76     109.228  54.095 -18.928  1.00 93.90      TS20
ATOM  51293  C   ALA T  76     107.486  54.220 -20.693  1.00 44.02      TS20
ATOM  51294  O   ALA T  76     107.614  53.962 -21.886  1.00 44.02      TS20
ATOM  51295  N   ALA T  77     106.413  53.896 -19.976  1.00 39.68      TS20
ATOM  51296  CA  ALA T  77     105.306  53.153 -20.551  1.00 39.68      TS20
ATOM  51297  CB  ALA T  77     104.303  52.813 -19.480  1.00 23.80      TS20
ATOM  51298  C   ALA T  77     104.645  53.962 -21.646  1.00 39.68      TS20
ATOM  51299  O   ALA T  77     104.399  53.454 -22.746  1.00 39.68      TS20
ATOM  51300  N   ALA T  78     104.358  55.224 -21.341  1.00 30.12      TS20
ATOM  51301  CA  ALA T  78     103.724  56.106 -22.313  1.00 30.12      TS20
ATOM  51302  CB  ALA T  78     103.705  57.525 -21.792  1.00 24.84      TS20
ATOM  51303  C   ALA T  78     104.495  56.038 -23.624  1.00 30.12      TS20
ATOM  51304  O   ALA T  78     103.915  55.832 -24.700  1.00 30.12      TS20
ATOM  51305  N   ARG T  79     105.813  56.204 -23.517  1.00 34.74      TS20
ATOM  51306  CA  ARG T  79     106.692  56.162 -24.673  1.00 34.74      TS20
ATOM  51307  CB  ARG T  79     108.147  56.168 -24.211  1.00 36.91      TS20
ATOM  51308  CG  ARG T  79     109.126  56.738 -25.211  1.00 36.91      TS20
ATOM  51309  CD  ARG T  79     110.469  55.978 -25.208  1.00 36.91      TS20
ATOM  51310  NE  ARG T  79     111.042  55.722 -23.876  1.00 36.91      TS20
ATOM  51311  CZ  ARG T  79     111.159  56.634 -22.906  1.00 36.91      TS20
ATOM  51312  NH1 ARG T  79     110.739  57.883 -23.103  1.00 36.91      TS20
ATOM  51313  NH2 ARG T  79     111.706  56.304 -21.740  1.00 36.91      TS20
ATOM  51314  C   ARG T  79     106.375  54.865 -25.413  1.00 34.74      TS20
ATOM  51315  O   ARG T  79     105.847  54.878 -26.528  1.00 34.74      TS20
ATOM  51316  N   ARG T  80     106.674  53.748 -24.758  1.00 40.29      TS20
ATOM  51317  CA  ARG T  80     106.440  52.422 -25.312  1.00 40.29      TS20
ATOM  51318  CB  ARG T  80     106.207  51.410 -24.193  1.00 67.96      TS20
ATOM  51319  CG  ARG T  80     107.189  51.494 -23.050  1.00 67.96      TS20
ATOM  51320  CD  ARG T  80     108.468  50.748 -23.330  1.00 67.96      TS20
ATOM  51321  NE  ARG T  80     109.449  51.007 -22.285  1.00 67.96      TS20
ATOM  51322  CZ  ARG T  80     110.578  50.329 -22.140  1.00 67.96      TS20
ATOM  51323  NH1 ARG T  80     110.868  49.337 -22.973  1.00 67.96      TS20
ATOM  51324  NH2 ARG T  80     111.427  50.659 -21.177  1.00 67.96      TS20
ATOM  51325  C   ARG T  80     105.201  52.462 -26.165  1.00 40.29      TS20
ATOM  51326  O   ARG T  80     105.274  52.501 -27.388  1.00 40.29      TS20
ATOM  51327  N   LYS T  81     104.062  52.461 -25.487  1.00 59.49      TS20
ATOM  51328  CA  LYS T  81     102.770  52.478 -26.142  1.00 59.49      TS20
ATOM  51329  CB  LYS T  81     101.701  52.958 -25.165  1.00 47.10      TS20
ATOM  51330  CG  LYS T  81     101.732  52.212 -23.851  1.00 47.10      TS20
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ATOM  51331  CD  LYS T  81     100.778  52.816 -22.856  1.00 47.10      TS20
ATOM  51332  CE  LYS T  81      99.348  52.667 -23.310  1.00 47.10      TS20
ATOM  51333  NZ  LYS T  81      98.439  53.278 -22.302  1.00 47.10      TS20
ATOM  51334  C   LYS T  81     102.798  53.372 -27.359  1.00 59.49      TS20
ATOM  51335  O   LYS T  81     102.551  52.914 -28.476  1.00 59.49      TS20
ATOM  51336  N   SER T  82     103.107  54.644 -27.148  1.00 36.97      TS20
ATOM  51337  CA  SER T  82     103.157  55.574 -28.257  1.00 36.97      TS20
ATOM  51338  CB  SER T  82     103.870  56.856 -27.841  1.00 48.77      TS20
ATOM  51339  OG  SER T  82     103.784  57.840 -28.858  1.00 48.77      TS20
ATOM  51340  C   SER T  82     103.904  54.928 -29.419  1.00 36.97      TS20
ATOM  51341  O   SER T  82     103.305  54.563 -30.431  1.00 36.97      TS20
ATOM  51342  N   ARG T  83     105.212  54.767 -29.264  1.00 25.58      TS20
ATOM  51343  CA  ARG T  83     106.021  54.176 -30.313  1.00 25.58      TS20
ATOM  51344  CB  ARG T  83     107.428  53.920 -29.796  1.00 72.14      TS20
ATOM  51345  CG  ARG T  83     108.141  55.193 -29.450  1.00 72.14      TS20
ATOM  51346  CD  ARG T  83     109.575  54.951 -29.072  1.00 72.14      TS20
ATOM  51347  NE  ARG T  83     110.256  56.214 -28.818  1.00 72.14      TS20
ATOM  51348  CZ  ARG T  83     111.497  56.302 -28.363  1.00 72.14      TS20
ATOM  51349  NH1 ARG T  83     112.184  55.196 -28.116  1.00 72.14      TS20
ATOM  51350  NH2 ARG T  83     112.046  57.489 -28.152  1.00 72.14      TS20
ATOM  51351  C   ARG T  83     105.469  52.894 -30.924  1.00 25.58      TS20
ATOM  51352  O   ARG T  83     105.622  52.667 -32.122  1.00 25.58      TS20
ATOM  51353  N   LEU T  84     104.831  52.051 -30.118  1.00 57.19      TS20
ATOM  51354  CA  LEU T  84     104.302  50.797 -30.643  1.00 57.19      TS20
ATOM  51355  CB  LEU T  84     104.031  49.811 -29.506  1.00 41.56      TS20
ATOM  51356  CG  LEU T  84     103.894  48.343 -29.919  1.00 41.56      TS20
ATOM  51357  CD1 LEU T  84     103.984  47.447 -28.710  1.00 41.56      TS20
ATOM  51358  CD2 LEU T  84     102.582  48.132 -30.610  1.00 41.56      TS20
ATOM  51359  C   LEU T  84     103.045  51.014 -31.472  1.00 57.19      TS20
ATOM  51360  O   LEU T  84     102.973  50.568 -32.614  1.00 57.19      TS20
ATOM  51361  N   MET T  85     102.048  51.687 -30.914  1.00 59.36      TS20
ATOM  51362  CA  MET T  85     100.838  51.934 -31.684  1.00 59.36      TS20
ATOM  51363  CB  MET T  85      99.810  52.682 -30.835  1.00 49.80      TS20
ATOM  51364  CG  MET T  85      99.192  51.812 -29.755  1.00 49.80      TS20
ATOM  51365  SD  MET T  85      98.206  52.722 -28.554  1.00 49.80      TS20
ATOM  51366  CE  MET T  85      96.924  53.283 -29.586  1.00 49.80      TS20
ATOM  51367  C   MET T  85     101.238  52.747 -32.915  1.00 59.36      TS20
ATOM  51368  O   MET T  85     100.543  52.759 -33.937  1.00 59.36      TS20
ATOM  51369  N   ARG T  86     102.378  53.424 -32.806  1.00 55.93      TS20
ATOM  51370  CA  ARG T  86     102.910  54.216 -33.901  1.00 55.93      TS20
ATOM  51371  CB  ARG T  86     104.201  54.902 -33.462  1.00152.72      TS20
ATOM  51372  CG  ARG T  86     104.931  55.620 -34.570  1.00152.72      TS20
ATOM  51373  CD  ARG T  86     105.041  57.090 -34.263  1.00152.72      TS20
ATOM  51374  NE  ARG T  86     103.726  57.678 -34.053  1.00152.72      TS20
ATOM  51375  CZ  ARG T  86     103.519  58.968 -33.823  1.00152.72      TS20
ATOM  51376  NH1 ARG T  86     104.547  59.806 -33.773  1.00152.72      TS20
ATOM  51377  NH2 ARG T  86     102.285  59.423 -33.644  1.00152.72      TS20
ATOM  51378  C   ARG T  86     103.195  53.225 -35.022  1.00 55.93      TS20
ATOM  51379  O   ARG T  86     102.393  53.078 -35.940  1.00 55.93      TS20
ATOM  51380  N   LYS T  87     104.318  52.518 -34.916  1.00 30.38      TS20
ATOM  51381  CA  LYS T  87     104.726  51.533 -35.921  1.00 30.38      TS20
ATOM  51382  CB  LYS T  87     105.868  50.673 -35.392  1.00 82.33      TS20
ATOM  51383  CG  LYS T  87     106.986  51.439 -34.740  1.00 82.33      TS20
ATOM  51384  CD  LYS T  87     108.000  50.463 -34.161  1.00 82.33      TS20
ATOM  51385  CE  LYS T  87     109.072  51.146 -33.321  1.00 82.33      TS20
ATOM  51386  NZ  LYS T  87     110.077  50.144 -32.865  1.00 82.33      TS20
ATOM  51387  C   LYS T  87     103.603  50.597 -36.379  1.00 30.38      TS20
ATOM  51388  O   LYS T  87     103.296  50.504 -37.565  1.00 30.38      TS20
ATOM  51389  N   VAL T  88     102.994  49.891 -35.437  1.00 50.31      TS20
ATOM  51390  CA  VAL T  88     101.943  48.959 -35.801  1.00 50.31      TS20
ATOM  51391  CB  VAL T  88     101.164  48.472 -34.564  1.00 54.80      TS20
ATOM  51392  CG1 VAL T  88     100.030  47.569 -34.993  1.00 54.80      TS20
ATOM  51393  CG2 VAL T  88     102.094  47.705 -33.643  1.00 54.80      TS20
ATOM  51394  C   VAL T  88     101.003  49.605 -36.792  1.00 50.31      TS20
ATOM  51395  O   VAL T  88     100.858  49.114 -37.907  1.00 50.31      TS20
ATOM  51396  N   ARG T  89     100.390  50.718 -36.401  1.00 46.42      TS20
ATOM  51397  CA  ARG T  89      99.469  51.411 -37.291  1.00 46.42      TS20
ATOM  51398  CB  ARG T  89      98.967  52.701 -36.645  1.00 52.59      TS20
ATOM  51399  CG  ARG T  89      97.856  53.377 -37.428  1.00 52.59      TS20
ATOM  51400  CD  ARG T  89      97.628  54.800 -36.939  1.00 52.59      TS20
ATOM  51401  NE  ARG T  89      96.566  54.935 -35.940  1.00 52.59      TS20
ATOM  51402  CZ  ARG T  89      95.266  54.849 -36.206  1.00 52.59      TS20
ATOM  51403  NH1 ARG T  89      94.860  54.621 -37.448  1.00 52.59      TS20
ATOM  51404  NH2 ARG T  89      94.370  55.007 -35.238  1.00 52.59      TS20
ATOM  51405  C   ARG T  89     100.155  51.713 -38.633  1.00 46.42      TS20
ATOM  51406  O   ARG T  89      99.667  51.300 -39.687  1.00 46.42      TS20
ATOM  51407  N   GLN T  90     101.284  52.417 -38.599  1.00 28.59      TS20
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ATOM  51408  CA  GLN T  90     102.013  52.722 -39.824  1.00 28.59      TS20
ATOM  51409  CB  GLN T  90     103.369  53.346 -39.499  1.00134.85      TS20
ATOM  51410  CG  GLN T  90     103.301  54.531 -38.557  1.00134.85      TS20
ATOM  51411  CD  GLN T  90     104.638  55.243 -38.414  1.00134.85      TS20
ATOM  51412  OE1 GLN T  90     105.672  54.615 -38.172  1.00134.85      TS20
ATOM  51413  NE2 GLN T  90     104.621  56.566 -38.556  1.00134.85      TS20
ATOM  51414  C   GLN T  90     102.231  51.428 -40.635  1.00 28.59      TS20
ATOM  51415  O   GLN T  90     101.704  51.264 -41.732  1.00 28.59      TS20
ATOM  51416  N   LEU T  91     103.011  50.506 -40.088  1.00 41.39      TS20
ATOM  51417  CA  LEU T  91     103.282  49.242 -40.764  1.00 41.39      TS20
ATOM  51418  CB  LEU T  91     103.885  48.246 -39.779  1.00 59.24      TS20
ATOM  51419  CG  LEU T  91     105.329  48.530 -39.386  1.00 59.24      TS20
ATOM  51420  CD1 LEU T  91     105.535  48.192 -37.920  1.00 59.24      TS20
ATOM  51421  CD2 LEU T  91     106.268  47.741 -40.289  1.00 59.24      TS20
ATOM  51422  C   LEU T  91     102.036  48.636 -41.388  1.00 41.39      TS20
ATOM  51423  O   LEU T  91     102.094  48.018 -42.454  1.00 41.39      TS20
ATOM  51424  N   LEU T  92     100.905  48.793 -40.721  1.00 47.65      TS20
ATOM  51425  CA  LEU T  92      99.706  48.232 -41.282  1.00 47.65      TS20
ATOM  51426  CB  LEU T  92      98.500  48.519 -40.389  1.00 39.06      TS20
ATOM  51427  CG  LEU T  92      98.445  47.566 -39.182  1.00 39.06      TS20
ATOM  51428  CD1 LEU T  92      97.150  47.768 -38.421  1.00 39.06      TS20
ATOM  51429  CD2 LEU T  92      98.552  46.115 -39.651  1.00 39.06      TS20
ATOM  51430  C   LEU T  92      99.529  48.805 -42.678  1.00 47.65      TS20
ATOM  51431  O   LEU T  92      99.429  48.039 -43.643  1.00 47.65      TS20
ATOM  51432  N   GLU T  93      99.531  50.141 -42.788  1.00 46.06      TS20
ATOM  51433  CA  GLU T  93      99.384  50.835 -44.078  1.00 46.06      TS20
ATOM  51434  CB  GLU T  93      99.896  52.274 -43.972  1.00174.76      TS20
ATOM  51435  CG  GLU T  93      99.420  53.043 -42.733  1.00174.76      TS20
ATOM  51436  CD  GLU T  93      97.910  53.033 -42.538  1.00174.76      TS20
ATOM  51437  OE1 GLU T  93      97.416  53.831 -41.711  1.00174.76      TS20
ATOM  51438  OE2 GLU T  93      97.216  52.227 -43.193  1.00174.76      TS20
ATOM  51439  C   GLU T  93     100.136  50.087 -45.186  1.00 46.06      TS20
ATOM  51440  O   GLU T  93     101.292  50.375 -45.519  1.00 46.06      TS20
ATOM  51441  N   ALA T  94      99.440  49.103 -45.736  1.00 79.22      TS20
ATOM  51442  CA  ALA T  94      99.945  48.242 -46.787  1.00 79.22      TS20
ATOM  51443  CB  ALA T  94     101.180  47.494 -46.303  1.00 94.03      TS20
ATOM  51444  C   ALA T  94      98.795  47.274 -47.037  1.00 79.22      TS20
ATOM  51445  O   ALA T  94      99.000  46.064 -47.146  1.00 79.22      TS20
ATOM  51446  N   ALA T  95      97.590  47.845 -47.112  1.00137.11      TS20
ATOM  51447  CA  ALA T  95      96.329  47.129 -47.327  1.00137.11      TS20
ATOM  51448  CB  ALA T  95      96.536  45.911 -48.229  1.00148.09      TS20
ATOM  51449  C   ALA T  95      95.750  46.696 -45.985  1.00137.11      TS20
ATOM  51450  O   ALA T  95      94.719  46.024 -45.928  1.00137.11      TS20
ATOM  51451  N   GLY T  96      96.426  47.106 -44.913  1.00 74.57      TS20
ATOM  51452  CA  GLY T  96      96.013  46.765 -43.564  1.00 74.57      TS20
ATOM  51453  C   GLY T  96      94.520  46.713 -43.303  1.00 74.57      TS20
ATOM  51454  O   GLY T  96      93.854  45.728 -43.620  1.00 74.57      TS20
ATOM  51455  N   ALA T  97      93.996  47.783 -42.718  1.00114.16      TS20
ATOM  51456  CA  ALA T  97      92.581  47.874 -42.371  1.00114.16      TS20
ATOM  51457  CB  ALA T  97      91.719  47.122 -43.390  1.00 27.80      TS20
ATOM  51458  C   ALA T  97      92.398  47.266 -40.987  1.00114.16      TS20
ATOM  51459  O   ALA T  97      92.025  46.100 -40.866  1.00114.16      TS20
ATOM  51460  N   PRO T  98      92.669  48.047 -39.921  1.00 88.94      TS20
ATOM  51461  CD  PRO T  98      92.970  49.487 -39.884  1.00 63.08      TS20
ATOM  51462  CA  PRO T  98      92.515  47.531 -38.562  1.00 88.94      TS20
ATOM  51463  CB  PRO T  98      92.802  48.758 -37.686  1.00 63.08      TS20
ATOM  51464  CG  PRO T  98      92.406  49.890 -38.542  1.00 63.08      TS20
ATOM  51465  C   PRO T  98      91.125  46.943 -38.353  1.00 88.94      TS20
ATOM  51466  O   PRO T  98      90.149  47.662 -38.106  1.00 88.94      TS20
ATOM  51467  N   LEU T  99      91.063  45.620 -38.476  1.00 82.25      TS20
ATOM  51468  CA  LEU T  99      89.832  44.866 -38.325  1.00 82.25      TS20
ATOM  51469  CB  LEU T  99      90.029  43.440 -38.832  1.00109.51      TS20
ATOM  51470  CG  LEU T  99      90.581  43.344 -40.252  1.00109.51      TS20
ATOM  51471  CD1 LEU T  99      90.773  41.886 -40.624  1.00109.51      TS20
ATOM  51472  CD2 LEU T  99      89.629  44.033 -41.222  1.00109.51      TS20
ATOM  51473  C   LEU T  99      89.439  44.830 -36.868  1.00 82.25      TS20
ATOM  51474  O   LEU T  99      88.418  45.388 -36.470  1.00 82.25      TS20
ATOM  51475  N   ILE T 100      90.260  44.171 -36.067  1.00 57.54      TS20
ATOM  51476  CA  ILE T 100      89.979  44.067 -34.646  1.00 57.54      TS20
ATOM  51477  CB  ILE T 100      90.873  42.989 -33.987  1.00201.21      TS20
ATOM  51478  CG2 ILE T 100      90.369  42.678 -32.591  1.00201.21      TS20
ATOM  51479  CG1 ILE T 100      90.833  41.705 -34.823  1.00201.21      TS20
ATOM  51480  CD1 ILE T 100      91.565  40.534 -34.204  1.00201.21      TS20
ATOM  51481  C   ILE T 100      90.215  45.425 -33.989  1.00 57.54      TS20
ATOM  51482  O   ILE T 100      89.875  45.638 -32.820  1.00 57.54      TS20
ATOM  51483  N   GLY T 101      90.792  46.337 -34.770  1.00171.14      TS20
ATOM  51484  CA  GLY T 101      91.078  47.682 -34.304  1.00171.14      TS20
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ATOM  51485  C   GLY T 101      91.115  47.826 -32.800  1.00171.14      TS20
ATOM  51486  O   GLY T 101      90.350  48.600 -32.230  1.00171.14      TS20
ATOM  51487  N   GLY T 102      91.989  47.065 -32.152  1.00 86.08      TS20
ATOM  51488  CA  GLY T 102      92.096  47.161 -30.713  1.00 86.08      TS20
ATOM  51489  C   GLY T 102      92.577  48.557 -30.384  1.00 86.08      TS20
ATOM  51490  O   GLY T 102      91.950  49.535 -30.772  1.00 86.08      TS20
ATOM  51491  N   GLY T 103      93.699  48.658 -29.682  1.00104.80      TS20
ATOM  51492  CA  GLY T 103      94.225  49.961 -29.329  1.00104.80      TS20
ATOM  51493  C   GLY T 103      94.479  50.801 -30.557  1.00104.80      TS20
ATOM  51494  O   GLY T 103      95.625  51.050 -30.911  1.00104.80      TS20
ATOM  51495  N   LEU T 104      93.409  51.235 -31.211  1.00 51.53      TS20
ATOM  51496  CA  LEU T 104      93.520  52.052 -32.410  1.00 51.53      TS20
ATOM  51497  CB  LEU T 104      93.978  51.217 -33.606  1.00 35.17      TS20
ATOM  51498  CG  LEU T 104      95.487  50.993 -33.668  1.00 35.17      TS20
ATOM  51499  CD1 LEU T 104      95.868  50.355 -34.993  1.00 35.17      TS20
ATOM  51500  CD2 LEU T 104      96.190  52.331 -33.481  1.00 35.17      TS20
ATOM  51501  C   LEU T 104      92.213  52.719 -32.762  1.00 51.53      TS20
ATOM  51502  O   LEU T 104      91.287  52.059 -33.225  1.00 51.53      TS20
ATOM  51503  N   SER T 105      92.153  54.034 -32.562  1.00 54.37      TS20
ATOM  51504  CA  SER T 105      90.955  54.811 -32.851  1.00 54.37      TS20
ATOM  51505  CB  SER T 105      91.144  56.258 -32.398  1.00 22.69      TS20
ATOM  51506  OG  SER T 105      91.315  56.329 -30.995  1.00 22.69      TS20
ATOM  51507  C   SER T 105      90.582  54.790 -34.323  1.00 54.37      TS20
ATOM  51508  O   SER T 105      91.423  54.548 -35.187  1.00 54.37      TS20
ATOM  51509  N   ALA T 106      89.306  55.052 -34.588  1.00150.76      TS20
ATOM  51510  CA  ALA T 106      88.776  55.074 -35.943  1.00150.76      TS20
ATOM  51511  CB  ALA T 106      87.392  55.716 -35.941  1.00169.75      TS20
ATOM  51512  C   ALA T 106      89.703  55.831 -36.890  1.00150.76      TS20
ATOM  51513  O   ALA T 106      90.239  55.193 -37.823  1.00150.76      TS20
ATOM  51514  OXT ALA T 106      89.883  57.051 -36.684  1.00169.75      TS20
TER   51514       ALA T 106                                             TS20
ATOM  51515  C   GLY V   2     249.297 126.461  -1.840  1.00 69.29      VTHX
ATOM  51516  O   GLY V   2     249.845 126.040  -0.817  1.00 69.29      VTHX
ATOM  51517  N   GLY V   2     251.181 125.428  -3.095  1.00 69.29      VTHX
ATOM  51518  CA  GLY V   2     249.954 126.271  -3.192  1.00 69.29      VTHX
ATOM  51519  N   LYS V   3     248.120 127.083  -1.831  1.00 45.99      VTHX
ATOM  51520  CA  LYS V   3     247.404 127.346  -0.590  1.00 45.99      VTHX
ATOM  51521  CB  LYS V   3     245.933 127.667  -0.870  1.00 51.48      VTHX
ATOM  51522  CG  LYS V   3     245.730 128.973  -1.621  1.00 51.48      VTHX
ATOM  51523  CD  LYS V   3     244.263 129.246  -1.946  1.00 51.48      VTHX
ATOM  51524  CE  LYS V   3     244.103 130.494  -2.844  1.00 51.48      VTHX
ATOM  51525  NZ  LYS V   3     242.751 130.567  -3.511  1.00 51.48      VTHX
ATOM  51526  C   LYS V   3     247.488 126.173   0.354  1.00 45.99      VTHX
ATOM  51527  O   LYS V   3     247.273 126.318   1.549  1.00 45.99      VTHX
ATOM  51528  N   GLY V   4     247.821 125.006  -0.170  1.00 33.10      VTHX
ATOM  51529  CA  GLY V   4     247.872 123.855   0.693  1.00 33.10      VTHX
ATOM  51530  C   GLY V   4     249.207 123.449   1.256  1.00 33.10      VTHX
ATOM  51531  O   GLY V   4     249.245 122.500   2.039  1.00 33.10      VTHX
ATOM  51532  N   ASP V   5     250.296 124.121   0.887  1.00 34.07      VTHX
ATOM  51533  CA  ASP V   5     251.606 123.711   1.406  1.00 34.07      VTHX
ATOM  51534  CB  ASP V   5     252.659 123.686   0.300  1.00 97.66      VTHX
ATOM  51535  CG  ASP V   5     254.039 123.328   0.826  1.00 97.66      VTHX
ATOM  51536  OD1 ASP V   5     254.134 122.475   1.738  1.00 97.66      VTHX
ATOM  51537  OD2 ASP V   5     255.030 123.893   0.319  1.00 97.66      VTHX
ATOM  51538  C   ASP V   5     252.115 124.544   2.558  1.00 34.07      VTHX
ATOM  51539  O   ASP V   5     252.598 125.657   2.371  1.00 34.07      VTHX
ATOM  51540  N   ARG V   6     252.032 123.964   3.750  1.00 95.79      VTHX
ATOM  51541  CA  ARG V   6     252.440 124.626   4.975  1.00 95.79      VTHX
ATOM  51542  CB  ARG V   6     252.098 123.738   6.174  1.00149.15      VTHX
ATOM  51543  CG  ARG V   6     252.777 122.380   6.180  1.00149.15      VTHX
ATOM  51544  CD  ARG V   6     252.510 121.664   7.500  1.00149.15      VTHX
ATOM  51545  NE  ARG V   6     253.320 120.459   7.672  1.00149.15      VTHX
ATOM  51546  CZ  ARG V   6     253.337 119.717   8.777  1.00149.15      VTHX
ATOM  51547  NH1 ARG V   6     252.584 120.052   9.819  1.00149.15      VTHX
ATOM  51548  NH2 ARG V   6     254.111 118.641   8.843  1.00149.15      VTHX
ATOM  51549  C   ARG V   6     253.902 125.061   5.061  1.00 95.79      VTHX
ATOM  51550  O   ARG V   6     254.386 125.376   6.144  1.00 95.79      VTHX
ATOM  51551  N   ARG V   7     254.610 125.096   3.938  1.00 57.21      VTHX
ATOM  51552  CA  ARG V   7     256.007 125.509   3.972  1.00 57.21      VTHX
ATOM  51553  CB  ARG V   7     256.907 124.296   3.684  1.00 74.71      VTHX
ATOM  51554  CG  ARG V   7     256.877 123.316   4.863  1.00 74.71      VTHX
ATOM  51555  CD  ARG V   7     257.370 121.911   4.573  1.00 74.71      VTHX
ATOM  51556  NE  ARG V   7     258.823 121.785   4.600  1.00 74.71      VTHX
ATOM  51557  CZ  ARG V   7     259.469 120.621   4.660  1.00 74.71      VTHX
ATOM  51558  NH1 ARG V   7     258.792 119.476   4.711  1.00 74.71      VTHX
ATOM  51559  NH2 ARG V   7     260.794 120.593   4.645  1.00 74.71      VTHX
ATOM  51560  C   ARG V   7     256.276 126.683   3.031  1.00 57.21      VTHX
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ATOM  51561  O   ARG V   7     257.403 126.906   2.574  1.00 57.21      VTHX
ATOM  51562  N   THR V   8     255.217 127.450   2.777  1.00 36.51      VTHX
ATOM  51563  CA  THR V   8     255.297 128.621   1.916  1.00 36.51      VTHX
ATOM  51564  CB  THR V   8     254.707 128.359   0.516  1.00 72.67      VTHX
ATOM  51565  OG1 THR V   8     253.338 128.790   0.486  1.00 72.67      VTHX
ATOM  51566  CG2 THR V   8     254.783 126.881   0.173  1.00 72.67      VTHX
ATOM  51567  C   THR V   8     254.503 129.765   2.526  1.00 36.51      VTHX
ATOM  51568  O   THR V   8     253.756 129.572   3.490  1.00 36.51      VTHX
ATOM  51569  N   ARG V   9     254.663 130.950   1.941  1.00 46.32      VTHX
ATOM  51570  CA  ARG V   9     253.971 132.139   2.406  1.00 46.32      VTHX
ATOM  51571  CB  ARG V   9     254.261 133.319   1.469  1.00155.80      VTHX
ATOM  51572  CG  ARG V   9     253.848 134.689   2.008  1.00155.80      VTHX
ATOM  51573  CD  ARG V   9     254.663 135.099   3.235  1.00155.80      VTHX
ATOM  51574  NE  ARG V   9     254.206 136.370   3.801  1.00155.80      VTHX
ATOM  51575  CZ  ARG V   9     254.711 136.936   4.896  1.00155.80      VTHX
ATOM  51576  NH1 ARG V   9     255.700 136.349   5.559  1.00155.80      VTHX
ATOM  51577  NH2 ARG V   9     254.222 138.090   5.333  1.00155.80      VTHX
ATOM  51578  C   ARG V   9     252.481 131.820   2.424  1.00 46.32      VTHX
ATOM  51579  O   ARG V   9     251.894 131.669   3.497  1.00 46.32      VTHX
ATOM  51580  N   ARG V  10     251.878 131.695   1.237  1.00 44.70      VTHX
ATOM  51581  CA  ARG V  10     250.449 131.391   1.111  1.00 44.70      VTHX
ATOM  51582  CB  ARG V  10     250.073 131.116  -0.344  1.00116.29      VTHX
ATOM  51583  CG  ARG V  10     250.089 132.318  -1.262  1.00116.29      VTHX
ATOM  51584  CD  ARG V  10     249.764 131.869  -2.678  1.00116.29      VTHX
ATOM  51585  NE  ARG V  10     249.718 132.971  -3.637  1.00116.29      VTHX
ATOM  51586  CZ  ARG V  10     249.420 132.822  -4.926  1.00116.29      VTHX
ATOM  51587  NH1 ARG V  10     249.142 131.616  -5.405  1.00116.29      VTHX
ATOM  51588  NH2 ARG V  10     249.393 133.873  -5.738  1.00116.29      VTHX
ATOM  51589  C   ARG V  10     250.146 130.161   1.936  1.00 44.70      VTHX
ATOM  51590  O   ARG V  10     249.078 130.042   2.531  1.00 44.70      VTHX
ATOM  51591  N   GLY V  11     251.102 129.243   1.963  1.00 48.19      VTHX
ATOM  51592  CA  GLY V  11     250.923 128.031   2.731  1.00 48.19      VTHX
ATOM  51593  C   GLY V  11     250.507 128.372   4.147  1.00 48.19      VTHX
ATOM  51594  O   GLY V  11     249.503 127.869   4.656  1.00 48.19      VTHX
ATOM  51595  N   LYS V  12     251.287 129.234   4.788  1.00 60.56      VTHX
ATOM  51596  CA  LYS V  12     250.990 129.653   6.148  1.00 60.56      VTHX
ATOM  51597  CB  LYS V  12     252.139 130.495   6.704  1.00 56.25      VTHX
ATOM  51598  CG  LYS V  12     253.070 129.731   7.630  1.00 56.25      VTHX
ATOM  51599  CD  LYS V  12     253.583 128.454   6.990  1.00 56.25      VTHX
ATOM  51600  CE  LYS V  12     254.528 127.704   7.929  1.00 56.25      VTHX
ATOM  51601  NZ  LYS V  12     253.907 127.300   9.222  1.00 56.25      VTHX
ATOM  51602  C   LYS V  12     249.701 130.450   6.170  1.00 60.56      VTHX
ATOM  51603  O   LYS V  12     248.726 130.046   6.792  1.00 60.56      VTHX
ATOM  51604  N   ILE V  13     249.699 131.579   5.477  1.00 48.12      VTHX
ATOM  51605  CA  ILE V  13     248.523 132.429   5.422  1.00 48.12      VTHX
ATOM  51606  CB  ILE V  13     248.477 133.271   4.146  1.00 16.09      VTHX
ATOM  51607  CG2 ILE V  13     247.398 134.337   4.284  1.00 16.09      VTHX
ATOM  51608  CG1 ILE V  13     249.832 133.898   3.860  1.00 16.09      VTHX
ATOM  51609  CD1 ILE V  13     249.837 134.702   2.584  1.00 16.09      VTHX
ATOM  51610  C   ILE V  13     247.241 131.610   5.405  1.00 48.12      VTHX
ATOM  51611  O   ILE V  13     246.347 131.793   6.240  1.00 48.12      VTHX
ATOM  51612  N   TRP V  14     247.154 130.714   4.427  1.00 71.98      VTHX
ATOM  51613  CA  TRP V  14     245.970 129.893   4.272  1.00 71.98      VTHX
ATOM  51614  CB  TRP V  14     246.187 128.801   3.237  1.00 55.17      VTHX
ATOM  51615  CG  TRP V  14     244.891 128.286   2.737  1.00 55.17      VTHX
ATOM  51616  CD2 TRP V  14     244.221 127.111   3.174  1.00 55.17      VTHX
ATOM  51617  CE2 TRP V  14     242.981 127.068   2.509  1.00 55.17      VTHX
ATOM  51618  CE3 TRP V  14     244.545 126.090   4.063  1.00 55.17      VTHX
ATOM  51619  CD1 TRP V  14     244.058 128.895   1.842  1.00 55.17      VTHX
ATOM  51620  NE1 TRP V  14     242.906 128.170   1.701  1.00 55.17      VTHX
ATOM  51621  CZ2 TRP V  14     242.063 126.045   2.711  1.00 55.17      VTHX
ATOM  51622  CZ3 TRP V  14     243.634 125.073   4.263  1.00 55.17      VTHX
ATOM  51623  CH2 TRP V  14     242.407 125.056   3.591  1.00 55.17      VTHX
ATOM  51624  C   TRP V  14     245.579 129.266   5.584  1.00 71.98      VTHX
ATOM  51625  O   TRP V  14     244.512 129.557   6.112  1.00 71.98      VTHX
ATOM  51626  N   ARG V  15     246.440 128.405   6.112  1.00 43.41      VTHX
ATOM  51627  CA  ARG V  15     246.151 127.769   7.383  1.00 43.41      VTHX
ATOM  51628  CB  ARG V  15     247.086 126.573   7.620  1.00 71.91      VTHX
ATOM  51629  CG  ARG V  15     246.626 125.314   6.858  1.00 71.91      VTHX
ATOM  51630  CD  ARG V  15     247.679 124.203   6.794  1.00 71.91      VTHX
ATOM  51631  NE  ARG V  15     247.904 123.543   8.081  1.00 71.91      VTHX
ATOM  51632  CZ  ARG V  15     248.901 122.692   8.329  1.00 71.91      VTHX
ATOM  51633  NH1 ARG V  15     249.777 122.394   7.378  1.00 71.91      VTHX
ATOM  51634  NH2 ARG V  15     249.019 122.134   9.530  1.00 71.91      VTHX
ATOM  51635  C   ARG V  15     246.261 128.810   8.494  1.00 43.41      VTHX
ATOM  51636  O   ARG V  15     246.441 128.473   9.663  1.00 43.41      VTHX
ATOM  51637  N   GLY V  16     246.129 130.078   8.106  1.00 89.38      VTHX
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ATOM  51638  CA  GLY V  16     246.177 131.194   9.041  1.00 89.38      VTHX
ATOM  51639  C   GLY V  16     247.208 131.157  10.155  1.00 89.38      VTHX
ATOM  51640  O   GLY V  16     246.893 131.483  11.302  1.00 89.38      VTHX
ATOM  51641  N   THR V  17     248.437 130.770   9.826  1.00 56.46      VTHX
ATOM  51642  CA  THR V  17     249.502 130.702  10.815  1.00 56.46      VTHX
ATOM  51643  CB  THR V  17     250.067 129.263  10.989  1.00 71.16      VTHX
ATOM  51644  OG1 THR V  17     250.619 128.807   9.749  1.00 71.16      VTHX
ATOM  51645  CG2 THR V  17     248.990 128.304  11.439  1.00 71.16      VTHX
ATOM  51646  C   THR V  17     250.670 131.592  10.427  1.00 56.46      VTHX
ATOM  51647  O   THR V  17     250.650 132.279   9.401  1.00 56.46      VTHX
ATOM  51648  N   TYR V  18     251.684 131.558  11.282  1.00 56.08      VTHX
ATOM  51649  CA  TYR V  18     252.914 132.305  11.113  1.00 56.08      VTHX
ATOM  51650  CB  TYR V  18     252.949 133.483  12.079  1.00 45.18      VTHX
ATOM  51651  CG  TYR V  18     252.074 134.655  11.704  1.00 45.18      VTHX
ATOM  51652  CD1 TYR V  18     250.848 134.861  12.323  1.00 45.18      VTHX
ATOM  51653  CE1 TYR V  18     250.069 135.990  12.026  1.00 45.18      VTHX
ATOM  51654  CD2 TYR V  18     252.508 135.599  10.767  1.00 45.18      VTHX
ATOM  51655  CE2 TYR V  18     251.742 136.735  10.460  1.00 45.18      VTHX
ATOM  51656  CZ  TYR V  18     250.521 136.926  11.094  1.00 45.18      VTHX
ATOM  51657  OH  TYR V  18     249.761 138.047  10.796  1.00 45.18      VTHX
ATOM  51658  C   TYR V  18     254.027 131.324  11.469  1.00 56.08      VTHX
ATOM  51659  O   TYR V  18     253.795 130.369  12.207  1.00 56.08      VTHX
ATOM  51660  N   GLY V  19     255.231 131.550  10.957  1.00 68.97      VTHX
ATOM  51661  CA  GLY V  19     256.326 130.644  11.264  1.00 68.97      VTHX
ATOM  51662  C   GLY V  19     257.599 130.961  10.506  1.00 68.97      VTHX
ATOM  51663  O   GLY V  19     257.802 132.092  10.060  1.00 68.97      VTHX
ATOM  51664  N   LYS V  20     258.464 129.965  10.357  1.00 71.95      VTHX
ATOM  51665  CA  LYS V  20     259.704 130.189   9.643  1.00 71.95      VTHX
ATOM  51666  CB  LYS V  20     260.645 128.999   9.763  1.00 50.41      VTHX
ATOM  51667  CG  LYS V  20     261.974 129.273   9.079  1.00 50.41      VTHX
ATOM  51668  CD  LYS V  20     263.007 128.198   9.328  1.00 50.41      VTHX
ATOM  51669  CE  LYS V  20     262.752 126.959   8.495  1.00 50.41      VTHX
ATOM  51670  NZ  LYS V  20     263.770 125.920   8.800  1.00 50.41      VTHX
ATOM  51671  C   LYS V  20     259.416 130.443   8.179  1.00 71.95      VTHX
ATOM  51672  O   LYS V  20     260.333 130.602   7.368  1.00 71.95      VTHX
ATOM  51673  N   TYR V  21     258.137 130.472   7.832  1.00 66.43      VTHX
ATOM  51674  CA  TYR V  21     257.771 130.723   6.456  1.00 66.43      VTHX
ATOM  51675  CB  TYR V  21     257.195 129.458   5.833  1.00 52.34      VTHX
ATOM  51676  CG  TYR V  21     258.216 128.346   5.728  1.00 52.34      VTHX
ATOM  51677  CD1 TYR V  21     258.337 127.378   6.732  1.00 52.34      VTHX
ATOM  51678  CE1 TYR V  21     259.322 126.367   6.659  1.00 52.34      VTHX
ATOM  51679  CD2 TYR V  21     259.096 128.287   4.646  1.00 52.34      VTHX
ATOM  51680  CE2 TYR V  21     260.081 127.289   4.563  1.00 52.34      VTHX
ATOM  51681  CZ  TYR V  21     260.190 126.334   5.571  1.00 52.34      VTHX
ATOM  51682  OH  TYR V  21     261.170 125.370   5.487  1.00 52.34      VTHX
ATOM  51683  C   TYR V  21     256.804 131.885   6.355  1.00 66.43      VTHX
ATOM  51684  O   TYR V  21     256.187 132.105   5.318  1.00 66.43      VTHX
ATOM  51685  N   ARG V  22     256.696 132.639   7.443  1.00 61.12      VTHX
ATOM  51686  CA  ARG V  22     255.834 133.814   7.507  1.00 61.12      VTHX
ATOM  51687  CB  ARG V  22     254.413 133.482   7.075  1.00 32.13      VTHX
ATOM  51688  CG  ARG V  22     253.471 134.675   7.107  1.00 32.13      VTHX
ATOM  51689  CD  ARG V  22     252.055 134.215   6.840  1.00 32.13      VTHX
ATOM  51690  NE  ARG V  22     251.086 135.296   6.940  1.00 32.13      VTHX
ATOM  51691  CZ  ARG V  22     249.938 135.197   7.599  1.00 32.13      VTHX
ATOM  51692  NH1 ARG V  22     249.619 134.063   8.219  1.00 32.13      VTHX
ATOM  51693  NH2 ARG V  22     249.110 136.235   7.635  1.00 32.13      VTHX
ATOM  51694  C   ARG V  22     255.811 134.328   8.932  1.00 61.12      VTHX
ATOM  51695  O   ARG V  22     254.922 133.989   9.717  1.00 61.12      VTHX
ATOM  51696  N   PRO V  23     256.804 135.145   9.291  1.00 84.34      VTHX
ATOM  51697  CD  PRO V  23     258.100 135.235   8.609  1.00122.32      VTHX
ATOM  51698  CA  PRO V  23     256.895 135.706  10.640  1.00 84.34      VTHX
ATOM  51699  CB  PRO V  23     258.397 135.931  10.818  1.00122.32      VTHX
ATOM  51700  CG  PRO V  23     259.033 135.039   9.753  1.00122.32      VTHX
ATOM  51701  C   PRO V  23     256.104 137.000  10.797  1.00 84.34      VTHX
ATOM  51702  O   PRO V  23     255.421 137.443   9.871  1.00 84.34      VTHX
ATOM  51703  N   ARG V  24     256.216 137.606  11.974  1.00103.24      VTHX
ATOM  51704  CA  ARG V  24     255.523 138.852  12.273  1.00103.24      VTHX
ATOM  51705  CB  ARG V  24     255.316 138.979  13.774  1.00116.94      VTHX
ATOM  51706  CG  ARG V  24     255.170 137.660  14.479  1.00116.94      VTHX
ATOM  51707  CD  ARG V  24     253.761 137.156  14.431  1.00116.94      VTHX
ATOM  51708  NE  ARG V  24     253.669 135.867  15.100  1.00116.94      VTHX
ATOM  51709  CZ  ARG V  24     252.534 135.333  15.526  1.00116.94      VTHX
ATOM  51710  NH1 ARG V  24     251.393 135.986  15.352  1.00116.94      VTHX
ATOM  51711  NH2 ARG V  24     252.539 134.148  16.120  1.00116.94      VTHX
ATOM  51712  C   ARG V  24     256.340 140.051  11.793  1.00103.24      VTHX
ATOM  51713  O   ARG V  24     256.086 141.183  12.210  1.00103.24      VTHX
ATOM  51714  N   LYS V  25     257.326 139.794  10.935  1.00148.90      VTHX
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ATOM  51715  CA  LYS V  25     258.192 140.839  10.382  1.00148.90      VTHX
ATOM  51716  CB  LYS V  25     257.353 142.034   9.909  1.00160.60      VTHX
ATOM  51717  CG  LYS V  25     256.301 141.670   8.865  1.00160.60      VTHX
ATOM  51718  CD  LYS V  25     255.460 142.869   8.466  1.00160.60      VTHX
ATOM  51719  CE  LYS V  25     254.405 142.482   7.446  1.00160.60      VTHX
ATOM  51720  NZ  LYS V  25     253.606 143.665   7.024  1.00160.60      VTHX
ATOM  51721  C   LYS V  25     259.244 141.306  11.381  1.00148.90      VTHX
ATOM  51722  O   LYS V  25     259.375 140.656  12.438  1.00148.90      VTHX
ATOM  51723  OXT LYS V  25     259.932 142.306  11.089  1.00160.60      VTHX
TER   51723      LYS V  25                                              VTHX
HETATM51724  O1  PAR Y   1     191.381  86.713  -9.549  1.00 58.40      YPAR
HETATM51725  C2  PAR Y   1     190.592  87.747 -10.257  1.00 58.40      YPAR
HETATM51726  C3  PAR Y   1     190.324  87.111  -7.355  1.00 58.40      YPAR
HETATM51727  C4  PAR Y   1     191.678  86.928  -8.123  1.00 58.40      YPAR
HETATM51728  O5  PAR Y   1     190.531  87.431  -5.994  1.00 58.40      YPAR
HETATM51729  O6  PAR Y   1     188.240  88.380  -7.294  1.00 58.40      YPAR
HETATM51730  O7  PAR Y   1     191.327  88.994 -10.360  1.00 58.40      YPAR
HETATM51731  N8  PAR Y   1     188.381  88.971 -10.149  1.00 58.40      YPAR
HETATM51732  C9  PAR Y   1     192.498  85.715  -7.610  1.00 58.40      YPAR
HETATM51733  O10 PAR Y   1     193.722  85.584  -8.326  1.00 58.40      YPAR
HETATM51734  C11 PAR Y   1     189.220  87.922  -9.523  1.00 58.40      YPAR
HETATM51735  C12 PAR Y   1     189.469  88.235  -8.008  1.00 58.40      YPAR
HETATM51736  C13 PAR Y   1     194.712  90.391 -11.545  1.00 58.40      YPAR
HETATM51737  C14 PAR Y   1     194.167  91.021 -12.856  1.00 58.40      YPAR
HETATM51738  C15 PAR Y   1     192.483  89.050 -11.243  1.00 58.40      YPAR
HETATM51739  C16 PAR Y   1     193.540  89.992 -10.597  1.00 58.40      YPAR
HETATM51740  O17 PAR Y   1     191.262  88.582 -13.314  1.00 58.40      YPAR
HETATM51741  O18 PAR Y   1     192.703  90.477 -14.759  1.00 58.40      YPAR
HETATM51742  N19 PAR Y   1     194.140  89.380  -9.406  1.00 58.40      YPAR
HETATM51743  N20 PAR Y   1     195.322  91.369 -13.699  1.00 58.40      YPAR
HETATM51744  C21 PAR Y   1     193.233  89.973 -13.531  1.00 58.40      YPAR
HETATM51745  C22 PAR Y   1     192.030  89.596 -12.627  1.00 58.40      YPAR
HETATM51746  C23 PAR Y   1     187.774  88.137 -13.563  1.00 58.40      YPAR
HETATM51747  C24 PAR Y   1     187.218  86.882 -12.872  1.00 58.40      YPAR
HETATM51748  O25 PAR Y   1     188.984  88.551 -12.891  1.00 58.40      YPAR
HETATM51749  C26 PAR Y   1     189.653  88.145 -15.102  1.00 58.40      YPAR
HETATM51750  C27 PAR Y   1     188.133  87.976 -15.060  1.00 58.40      YPAR
HETATM51751  O28 PAR Y   1     186.586  87.277 -11.653  1.00 58.40      YPAR
HETATM51752  O29 PAR Y   1     190.137  88.812 -16.282  1.00 58.40      YPAR
HETATM51753  C30 PAR Y   1     189.978  88.914 -13.842  1.00 58.40      YPAR
HETATM51754  O31 PAR Y   1     187.457  89.043 -15.809  1.00 58.40      YPAR
HETATM51755  O32 PAR Y   1     185.127  88.596 -16.077  1.00 58.40      YPAR
HETATM51756  C33 PAR Y   1     186.449  88.661 -16.767  1.00 58.40      YPAR
HETATM51757  C34 PAR Y   1     184.328  90.775 -16.935  1.00 58.40      YPAR
HETATM51758  C35 PAR Y   1     184.423  89.852 -15.684  1.00 58.40      YPAR
HETATM51759  O36 PAR Y   1     183.719  92.026 -16.579  1.00 58.40      YPAR
HETATM51760  O37 PAR Y   1     185.573  91.787 -18.724  1.00 58.40      YPAR
HETATM51761  C38 PAR Y   1     185.065  90.564 -14.418  1.00 58.40      YPAR
HETATM51762  N39 PAR Y   1     187.594  89.758 -18.678  1.00 58.40      YPAR
HETATM51763  C40 PAR Y   1     186.315  89.597 -17.992  1.00 58.40      YPAR
HETATM51764  C41 PAR Y   1     185.719  90.962 -17.595  1.00 58.40      YPAR
HETATM51765  N42 PAR Y   1     186.238  91.441 -14.720  1.00 58.40      YPAR
TER   51765      PAR Y   1                                              YPAR
HETATM51766 MG   MG  U  23     236.216 113.915  -7.165  1.33 24.06      UION
HETATM51767 MG   MG  U  24     228.768 111.996  13.705  1.43 24.06      UION
HETATM51768 MG   MG  U  27     164.959 106.295  -5.445  1.22 24.06      UION
HETATM51769 MG   MG  U  42     115.398  64.849  18.921  1.44 24.06      UION
HETATM51770 MG   MG  U  45     133.744 124.292 -58.334  0.89 24.06      UION
HETATM51771 MG   MG  U  48     171.449  94.680 -49.658  1.51 24.06      UION
HETATM51772 MG   MG  U  49     178.057  94.633 -52.724  1.47 24.06      UION
HETATM51773 MG   MG  U  50     180.538  86.980 -56.243  1.11 24.06      UION
HETATM51774 MG   MG  U  53     199.561  98.078 -54.557  1.11 24.06      UION
HETATM51775 MG   MG  U  54     163.225 106.023 -38.785  1.52 24.06      UION
HETATM51776 MG   MG  U  55     159.776 127.854 -45.145  1.29 24.06      UION
HETATM51777 MG   MG  U  59     167.381 109.702  17.087  1.65 24.06      UION
HETATM51778 MG   MG  U  60     150.906  99.919  -8.714  1.50 24.06      UION
HETATM51779 MG   MG  U  61     180.335 109.381  -2.256  1.29 24.06      UION
HETATM51780 MG   MG  U  63     159.361 106.268 -16.296  1.50 24.06      UION
HETATM51781 MG   MG  U  65     118.433 102.649 -26.885  1.09 24.06      UION
HETATM51782 MG   MG  U  68     166.247 127.707 -31.729  1.24 24.06      UION
HETATM51783 MG   MG  U  70     157.755 115.994 -16.274  1.24 24.06      UION
HETATM51784 MG   MG  U  71     161.219 131.844 -23.349  1.05 24.06      UION
HETATM51785 MG   MG  U  73     168.531  91.012 -12.314  1.12 24.06      UION
HETATM51786 MG   MG  U  75     223.203 126.770 -21.474  1.35 24.06      UION
HETATM51787 MG   MG  U  76     217.795 136.523 -12.814  1.11 24.06      UION
HETATM51788 MG   MG  U  78     219.523 126.223 -14.493  0.91 24.06      UION
HETATM51789 MG   MG  U  79     233.105 139.273  -3.026  1.34 24.06      UION
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HETATM51790 MG    MG  U  81      167.521 132.268  -7.576  1.13 24.06          UION
HETATM51791 MG    MG  U  82      125.672  96.672  26.584  1.28 24.06          UION
HETATM51792 MG    MG  U  86      130.532 112.045 -36.990  0.97 24.06          UION
HETATM51793 MG    MG  U  87      126.865 118.583 -57.027  0.64 24.06          UION
HETATM51794 MG    MG  U  90      209.699 110.825  10.641  1.46 24.06          UION
HETATM51795 MG    MG  U  91      231.050 108.391  30.249  0.95 24.06          UION
HETATM51796 MG    MG  U  92      233.752 122.373  26.233  1.25 24.06          UION
HETATM51797 MG    MG  U  95      202.693 116.527  10.250  1.13 24.06          UION
HETATM51798 MG    MG  U  96      203.749 111.690   8.169  1.33 24.06          UION
HETATM51799 MG    MG  U 113      148.149 102.980  -4.433  1.23 24.06          UION
HETATM51800 MG    MG  U 114      114.907  51.981 -11.719  1.21 24.06          UION
HETATM51801 MG    MG  U 118      169.238 105.259 -25.908  1.31 24.06          UION
HETATM51802 MG    MG  U 126      166.357  74.247 -43.463  0.70 24.06          UION
HETATM51803 MG    MG  U 130      204.997 144.282   0.228  1.20 24.06          UION
HETATM51804 MG    MG  U 132      171.027 125.741 -16.466  0.97 24.06          UION
HETATM51805 MG    MG  U 133      197.617 137.457 -14.831  1.07 24.06          UION
HETATM51806 MG    MG  U 134      194.680 145.172  -6.218  1.05 24.06          UION
HETATM51807 MG    MG  U 136      144.496  73.720 -20.377  1.00 24.06          UION
HETATM51808 MG    MG  U 149      186.680 103.484 -42.508  1.01 24.06          UION
HETATM51809 MG    MG  U 150      185.620  96.965 -39.141  1.05 24.06          UION
HETATM51810 MG    MG  U 151      192.555 101.896 -31.879  1.19 24.06          UION
HETATM51811 MG    MG  U 152      196.451 103.009 -26.282  1.62 24.06          UION
HETATM51812 MG    MG  U 153      193.762 105.144 -30.547  1.61 24.06          UION
HETATM51813 MG    MG  U 160      112.653  25.123  -2.899  1.06 24.06          UION
HETATM51814 MG    MG  U 161       91.998  45.752 -14.553  1.07 24.06          UION
HETATM51815 MG    MG  U 162       84.647  59.767 -17.325  0.89 24.06          UION
HETATM51816 MG    MG  U 167      144.293  70.605  -7.700  1.42 24.06          UION
HETATM51817 MG    MG  U 169      135.059  54.916   6.078  1.63 24.06          UION
HETATM51818 MG    MG  U 170      119.013  64.445  20.828  0.98 24.06          UION
HETATM51819 MG    MG  U 174      200.504  97.707 -48.473  1.63 24.06          UION
HETATM51820 MG    MG  U 178      196.836  91.850 -40.292  1.32 24.06          UION
HETATM51821 MG    MG  U 183      203.786 120.493  13.412  0.89 24.06          UION
HETATM51822 MG    MG  U 186      254.948 123.775  -4.031  1.25 24.06          UION
HETATM51823 MG    MG  U 201      147.976 105.774 -18.838  1.25 24.06          UION
HETATM51824 MG    MG  U 210      118.121  97.461  -9.652  0.80 24.06          UION
HETATM51825 MG    MG  U 211      140.167 100.221 -43.233  0.81 24.06          UION
HETATM51826 MG    MG  U 214      146.401  91.772  26.299  1.04 24.06          UION
HETATM51827 MG    MG  U 215      136.266 110.802  13.186  1.05 24.06          UION
HETATM51828 MG    MG  U 216      172.790  93.394  17.318  1.04 24.06          UION
HETATM51829 MG    MG  U 217      154.420 103.599  45.418  1.15 24.06          UION
HETATM51830 MG    MG  U 218      177.090  98.155  21.948  1.12 24.06          UION
HETATM51831 MG    MG  U 219      172.571  99.130  15.303  1.16 24.06          UION
HETATM51832 MG    MG  U 220      185.673  96.480   6.748  1.12 24.06          UION
HETATM51833 MG    MG  U 223      130.286  79.720 -20.684  0.74 24.06          UION
HETATM51834 MG    MG  U 225      101.381  45.448  -3.791  0.98 24.06          UION
HETATM51835 MG    MG  U 226      125.751  54.667   1.642  1.07 24.06          UION
HETATM51836 MG    MG  U 228      109.287  34.707  19.596  0.97 24.06          UION
HETATM51837 MG    MG  U 229      115.173  46.349   7.159  1.10 24.06          UION
HETATM51838 MG    MG  U 300      212.870 109.527  18.256  0.82 24.06          UION
HETATM51839 MG    MG  U 301      161.380 108.777  -9.544  1.21 24.06          UION
HETATM51840 MG    MG  U 302      111.692  63.050  26.068  0.94 24.06          UION
HETATM51841 MG    MG  U 402      161.922 130.723 -41.582  0.94 24.06          UION
HETATM51842 MG    MG  U 403      117.083 111.545 -35.090  0.89 24.06          UION
HETATM51843 MG    MG  U 404      113.815 111.575 -32.419  0.55 24.06          UION
HETATM51844 MG    MG  U 405      114.471  99.660 -21.208  0.92 24.06          UION
HETATM51845 MG    MG  U 406      168.223  91.484 -15.839  0.90 24.06          UION
HETATM51846 MG    MG  U 407      121.562  35.804 -21.776  0.82 24.06          UION
HETATM51847 MG    MG  U 408      199.385  94.267 -16.127  0.70 24.06          UION
HETATM51848 MG    MG  U 409      177.409 106.532 -12.362  1.16 24.06          UION
HETATM51849 MG    MG  U 410      196.950 140.902 -16.129  0.77 24.06          UION
HETATM51850 MG    MG  U 411      144.459  76.203 -23.377  0.88 24.06          UION
HETATM51851 MG    MG  U 412       86.606  57.276 -17.826  0.69 24.06          UION
HETATM51852 MG    MG  U 413      253.383 119.796 -17.283  1.00 24.06          UION
HETATM51853 MG    MG  U 414      123.444  89.135   2.520  1.06 24.06          UION
HETATM51854 MG    MG  U 415      149.461 103.936 -45.690  1.53 24.06          UION
HETATM51855 MG    MG  U 416      125.842  56.625   4.235  0.91 24.06          UION
HETATM51856 MG    MG  U 417      113.442  41.321  14.437  1.03 24.06          UION
HETATM51857 MG    MG  U 418      128.759  59.877  -7.277  0.98 24.06          UION
HETATM51858 MG    MG  U 419      136.848  55.183  -8.007  0.98 24.06          UION
HETATM51859 MG    MG  U 420       98.637  72.677  25.611  0.79 24.06          UION
HETATM51860 MG    MG  U 421      192.623  99.368  24.092  0.77 24.06          UION
HETATM51861 MG    MG  U 422      224.422 124.501   3.247  1.09 24.06          UION
HETATM51862 MG    MG  U 423      211.712 115.520  29.481  0.74 24.06          UION
HETATM51863 MG    MG  U 424      206.137 110.356  35.914  0.58 24.06          UION
HETATM51864 MG    MG  U 427      185.112 119.605 -16.703  1.10 24.06          UION
HETATM51865 MG    MG  U 428      188.403 125.353 -17.960  0.85 24.06          UION
HETATM51866 MG    MG  U 429      194.140 122.753 -20.125  0.88 24.06          UION
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